The General Catalog of Artificial Space Objects

V1.0.2

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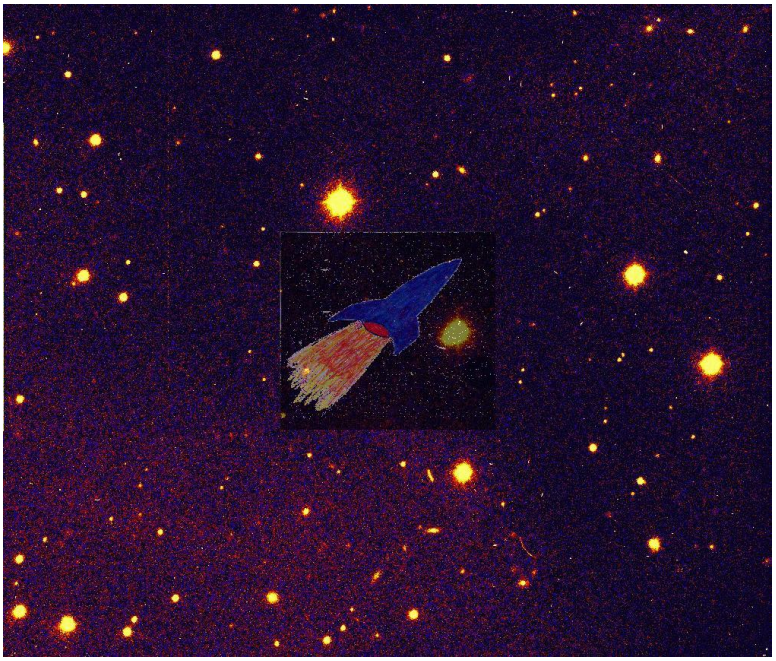

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Chapter I.1

Preface

The General Catalog of Artificial Space Objects (GCAT) makes public the full satellite database that underlies Jonathan's Space Report (https://planet4589.org/jsr.html)

The diagram below indicates the general structure of the database, which reflects the data model of the information it describes.

An artificial space **object** (for short, in future simply 'object') a satellite or spacecraft (active payload, rocket stage, discarded component, piece of debris) outside the Earth's lower atmosphere. At a given time it can be in one of the following **object states:**

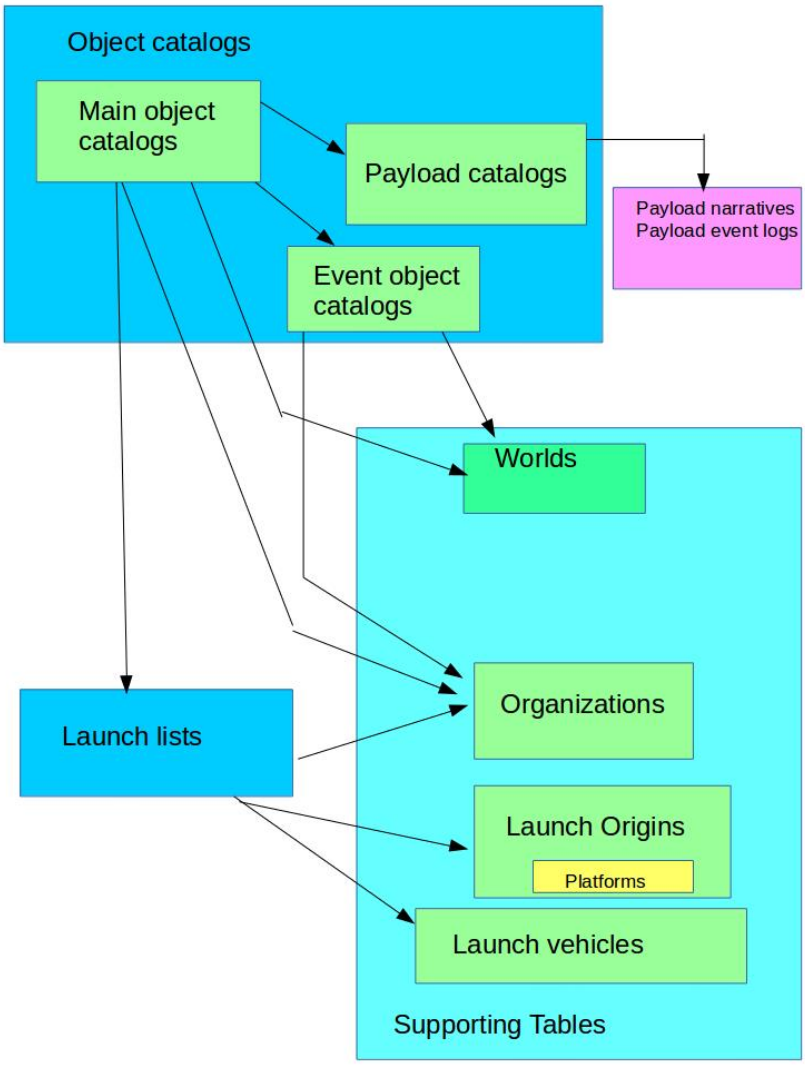
- Attached to another object
- In free flight in the gravitational field of a **world** or astronomical **body**
- On the surface of an astronomical body
- Destroyed (in a collision, explosion or by burnup in atmospheric entry).

Each time the object transitions to another state (undocks, is attached to something, reenters, changes which body it is orbiting, etc.) marks the beginning or end of a **phase.** Most objects in GCAT have only a single phase - they separate from an object (launch vehicle) and then are either still in free flight or have reentered. However, some objects go through many phases.

The main object catalogs define and list the first phase of each object. Objects with more than one phase have their subsequent phases listed as entries in the event object catalogs. A subset of objects are considered **payloads** and have additional data in the payload catalogs.

Each object (with rare exceptions) is associated with a single **launch,** described in the launch lists. Each launch may be associated with many objects. The launch lists are the same as those in the already-published LVDB.

Each launch is associated with a **launch vehicle** and a **launch origin** (generalization of launch site), and both launches and objects are associated with **organizations** of several kinds (countries, owners, manufacturers). These associations are expressed by strings which link the launch and object catalogs with the supporting tables.



GCAT – overall structure

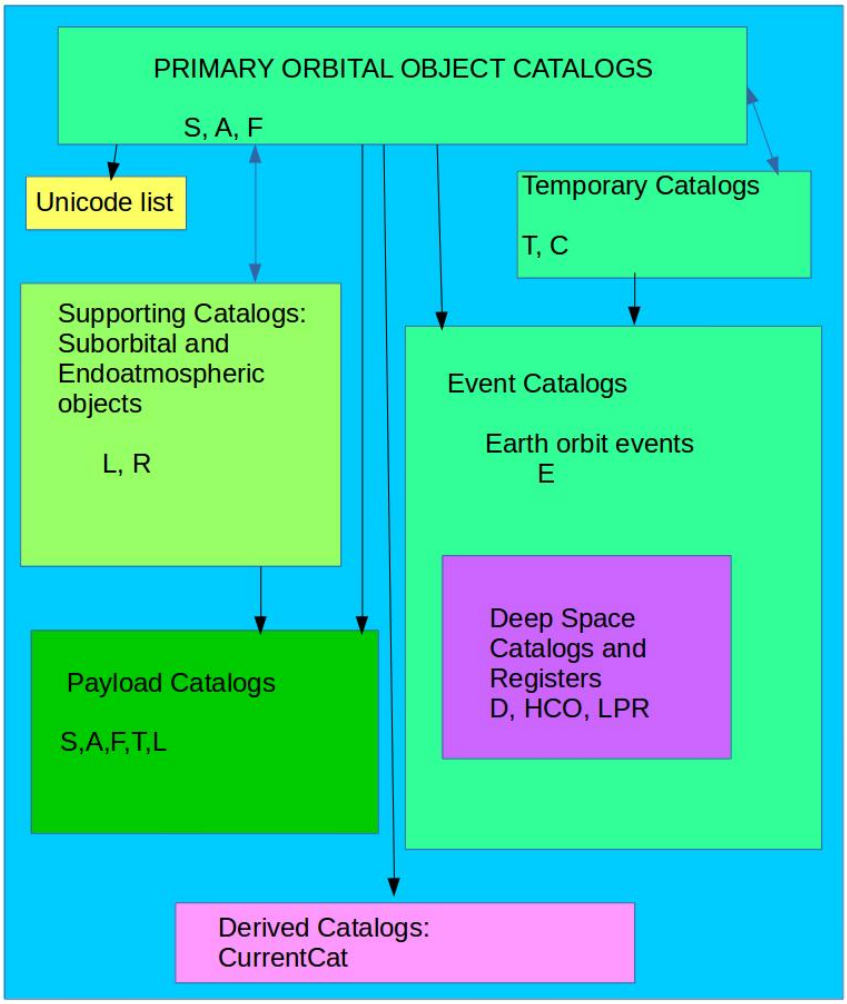


Figure: (1) Overall structure of GCAT. (2) Detailed structure of the object catalogs.

The supporting tables and the launch lists were published as GCAT release 1.0.2 in Aug 2020. Pre-release versions have been public for a decade as part of the Launch Vehicle Database (LVDB). (https://planet4589.org/space/lvdb/index.html) Release 1.1.0 is the first complete, formally versioned and documented release to include the object catalogs.

For each payload, there is also a payload narrative and a payload event log. However, these are considerably further from being ready for publication, so don't hold your breath.

Note that in fixed width versions of the table files, column names are truncated to the field width. Sorry about that!

I.1.0.1 Citing GCAT

GCAT is released under the Creative Commons CC-BY licence. You are free to use the data in GCAT as long as you include a citation to it. A suitable short citation is 'data from GCAT (J. McDowell, planet4589.org/space/gcat)'. A full citation is

Part I

Introduction

I.0.1 GCAT Release History

Release	Date	Notes
LVDB 2.0	2010 Oct 28	Added 1950s Soviet missiles from Asif Siddiqi
LVDB 2.1	2011 Nov 17	general update
LVDB 2.2	2014 Aug 25	Added many new Soviet ICBM launches provided by a Russian source, general update
LVDB 2.3	2014 Oct 6	Added a number of launches from El Arenosillo, Spain, and assorted launch times for US missiles, re
LVDB 2.4	2014 Nov 11	with more data on Soviet launches.
LVDB 2.5	2015 Jan 12	
LVDB 2.6	2015 Jul 16	
LVDB 2.7	2015 Dec 22	with new USSR launch time data from Andrey Krasil'nikov
LVDB 2.8	2016 Dec 30	
LVDB 2.9	2017 Sep 7	
LVDB 2.10	2017 Dec 28	
LVDB 2.11	2019 Dec 24	there were multiple unversioned minor data updates in 2017-2020
LVDB 2.12	2020 Jun 14	Changed launch site codes
GCAT 1.0.1	2020 Jun 19	Pre-release with supporting files only: Orgs, Sites, Platforms
GCAT 1.0.2	2020 Aug 9	Pre-release with supporting files and launch lists, supersedes LVDB
GCAT 1.1.0	2020 Aug 23	First full release with object catalogs
GCAT 1.1.1	2020 Aug 23	Added omitted documentation (intro/orbits.html)
GCAT 1.1.2	2020 Aug 23	Fixed a few typos and incorrect links
GCAT 1.1.3	2020 Aug 28	Added some Chinese missile bases to Sites file, minor doc updates
GCAT 1.1.4	2020 Sep 1	Added new section DERIVED CATALOGS with new catalog 'currentcat'. Updated OX flags for lost
GCAT 1.1.5	2020 Sep 1	Changed the structure of 'currentcat' to fix some issues.
GCAT 1.1.6	2020 Sep 25	Added new field "Ac" (active satellite flag) to 'currentcat'
GCAT 1.1.7	2020 Dec 30	Added new derived catalog LAUNCHLOG to replace old launchlog.txt, and new intro section on U la
GCAT 1.1.8	2021 Jan 23	Added TF and ATT columns to payload catalogs and updated possible values for MVR column
GCAT 1.1.9	2021 Mar 13	Added support for 'D' descriptor for cubesat deployers in byte 2 of SatType
GCAT 1.1.10	2021 Apr 4	Added Starlink failure codes to SatType byte 8
GCAT 1.2.0	2021 Jul 21	Introduced 'NomCode' nomenclature code support (with only a few values filled)
GCAT 1.2.1	2021 Aug 17	Added new phase type 'C' for in-orbit collisions (intro/phases.html) and new launch designation 'UN
GCAT 1.2.2	2021 Oct 17	Added new crossindex for deepcat entries, added REFLT status code for relaunched objects, changed
GCAT 1.2.3	2021 Nov 30	Added column-description documentation for derived (currentcat, launchlog) tables.
GCAT 1.2.4	2022 Jan 18	Added new column 'plane' in payload catalogs to record constellation planes
GCAT 1.2.5	2022 Feb 14	Added parent and sep date columns to 'currentcat' to help generate debris history plots
GCAT 1.2.6	2022 Feb 15	Added persistent analyst objects to currentcat, and documentation of analyst objects to intro.
GCAT 1.2.7	2022 Feb 16	Added SatType field to derived catalog 'launchlog' and updated documentation.
GCAT 1.2.8	2022 Mar 24	Changed meaning of SatType byte 4 value 'K'
GCAT 1.2.9	2022 Mar 25	Added C3 and SpE values to special (U) launch table
GCAT 1.2.10	2022 Apr 20	Added orbital period to derived file 'currentcat'
GCAT 1.2.11	2022 Apr 28	Added lower case 'c' option in sat type for objects with newly-declassified orbital data, see type.html
GCAT 1.2.12	2022 Jun 11	Minor documentation corrections
GCAT 1.2.13	2022 Sep 12	Added geosync orbit catalog
GCAT 1.3.0	2022 Sep 25	Added launch service codes and launch profile codes
GCAT 1.3.1	2022 Sep 26	LEO upper boundary changed to 2000 km (was previously 2 hour period)
GCAT 1.3.2	2022 Dec 2	SatType bytes 11 and 12 defined.
GCAT 1.3.3	2022 Dec 26	CurrentCat added Owner and State fields, current owners for defunct sats updated
GCAT 1.3.4	2023 Mar 27	Added missing documention to phases.html about OI, OE cases.
GCAT 1.4.0	2023 Apr 13	Changed suborbital targeted reentry values from 'R' to 'S' to distinguish from uncontrolled reentry
GCAT 1.5.0	2023 Sep 22	Changed status value EVA to EVA RP and for spacesuits, TFR E changed to EVA DP (repress, depres
GCAT 1.5.1	2023 Oct 1	Added status byte 6 value of G for generic cargo accounting, and clarified use of values for all station
GCAT 1.5.2	2023 Oct 6	Added status values TO (LO from small bodies) and LOA (extraterrestrial REFLT, LO attached), RET
GCAT 1.5.4	2023 Oct 24	Added Owner and State fields to (derived) launchlog file.
GCAT 1.5.5	2024 May 5	Added Orbit Payload (OPAY) column to launch lists
GCAT 1.5.6	2024 Oct 13	Added Disposal Orbit columns to payload catalogs
GCAT 1.5.7	2024 Oct 18	Reordered payload catalog columns
GCAT 1.6.0	2025 Feb 14	Added new launch id key to object catalogs as common key for launch lists
GCAT 1.6.1	2025 Feb 15	Addded C class launch designations for unknown launches, see desig.html

Chapter I.1

I. Definitions and Conventions

I.1.1 Time Representations and Vague Date Format

I.1.1.1 Time Scales

All dates in GCAT are at least nominally in Coordinated Universal Time (UTC). Comparing launches and orbital events occuring across the world requires a global timescale - local time zones are useless. UTC, like local times, has the bad feature that it is not continuous - there are occasional leap seconds.

An even better choice of timescale would be a continuous one, such as TT, TDB or TCB. JPL Horizons data is expressed in TDB, but most data in the space community is in UTC, and (at least for this release) I have relunctantly decided to go with the crowd.

Nontechnical readers may be more familiar with UTC by the essentially equivalent name GMT (Greenwich Mean Time). The US military tags time zones with the phonetic alphabet, with UTC/GMT as zone 24 known as Z (Zulu) time.

Note, however that UTC is not a time zone per se - it is not restricted to a particular range of longitudes; and of course, it never has daylight savings time.

I.1.1.2 Julian Date

We can express dates numerically using the Julian Date (JD). The JD day number is a continuous count of days starting at noon UTC on BC 4713 Jan 1 Old Style/Julian calendar, which is noon UTC on BC 4714 Nov 24 New Style/Gregorian calendar.

Times within a day are expressed as decimal days. Remember that the JD always starts at noon. For example, 0600 UTC on 2020 Aug 1 is JD 2459062.7500; 1800 UTC on 2020 Aug 1 is JD JD 2459063.2500.

Note that 12:00 UTC on Jan 1, 2000 is JD 2451545.0. This special epoch is the fundamental epoch of modern astronomy, known as J2000.0 for short.

Estimated launch times of rockets are provided as JD values to make it easy to sort the data and carry out computations. However, some launch times are uncertain - even only known to the nearest year or so. This uncertainty is incorporated in a human-readable date field that uses what I call the Vague Date Format, defined in the next section.

I.1.1.3 Vague Date Format

Dates in the General Catalog are usually recorded as strings in what I call the 'Vague Date' format. A Vague Date string defines a time range within which an event is believed to lie.

Many astronautical databases include dates which are actually approximate but are given as if they are precise. For example, a rocket which is only known to have launched sometime in 1984 may be entered with a date of 1984 Jan 1 0000:00 as if it was known to the nearest second. This is particularly common if the date is stored as a single real number (e.g. Julian Day value).

To fix this, every date field should actually be a pair of values - either two dates as a confidence interval or a date and an uncertainty value. This adds storage, maintenance and I/O software overhead to the handling of dates.

As a compromise between this additional overhead and following the common practice of ignoring the problem, the Vague Date string format translates to a time confidence interval with a particular precision. A maximal-precision Vague Date is of the form

```
2016 Jun  8 2359:57.345
```

which is interpreted as UTC in a geocenter-fixed frame, lying in the millisecond between 2359:57.3450 and 2359:57.3460 UTC. Note that there must be two spaces between "Jun" and "8" here.

We provide the ability to encode greater uncertainty by allowing rightmost fields to be omitted, and optionally a question mark symbol to be appended.

In the General Catalog we only allow 1 second precision, so e.g.

```
2016 Jun  8 2359:57
```

The full specification of the format is as a series of fields increasing in precision from left to right, with a possible question-mark suffix. The only mandatory field is the year, but if a field is present so must all the fields to the left of it, except for the optional leftmost 'domain' field.

The fields are:

- **Domain, consisting of the string AD or BC.** This is usually omitted and the value AD is assumed. Of course, we don't normally need BC for space events! But I use the same format for astronomy, where we do have observations of supernovae and comets before 1 AD.

  It's true that nowadays academic historians would advocate using the 'common era' designations CE and BCE to avoid Christian associations, but, having grown up with BC and AD, I find this overly precious despite my atheism - if you are going to worry about that, perhaps you should change the zero point (to the Space Era of 1957, for example).

- **Year field.**

  This can be either:

  - The (Gregorian) year, as an integer; or
  - A century descriptor, format: integer followed by letter. The letter can be C or M for century or millenium. For example, 20C means between 1901 Jan 1 and 2001 Jan 1; M indicates a millenium; 3M means between 2001 Jan 1 and 3001 Jan 1. Usually for astronautical applications we know the date more accurately than a century!

- **Month (generalized month), consisting of the (case sensitive) strings** Jan, Feb, ... Dec, and the special strings Q1, Q2, Q3, Q4 indicating the year-quarters Jan-Mar, Apr-Jun, Jul-Sep, Oct-Dec respectively.

- **Day, an integer in the range 1, 31 always right justfied** in a two byte field.

- **Time, in one of three formats:**

- **(1) Centiday: A day decimal fraction with one or two significant digits.** This format was used by the RAE table of Earth Satellites and related satellite tabulations.
- **(2) Hour: A two-digit hour value with a trailing letter 'h'.**
- **(3) HMS: A time in the format hhmm:ss.sss (where trailing items can be omitted** parsed as:
  - The hour, 00 to 23 (leading zeroes required)
  - Minute, 00 to 59 (leading zeroes required), appended to the hour value without any separator.
  - Second, 00 to 60 (leading zeroes required), appended to the minutes with a colon separator. (Note that during a UTC leap second, the second value may be 60).
  - Millisecond, 000 to 999, appended to the seconds with a decimal point
- **Schedule flag, an optional trailing 's' to indicate a scheduled date,** where the actual time is not confirmed (or has not happened yet).
- **Flag, An optional trailing question mark to indicate uncertainty.**

Here are a selection of valid Vague Date strings and their mapping to a date confidence interval.

Precision	Vague Date	Range implied (semi-open interval)	Width
Millisec	2016 Jun 8 2355:57.345	2016 Jun 8 2355:57.345 to 57.346	1ms
Second	2016 Jun 8 2355:57	2016 Jun 8 2355:57.0 to 2355:58.0	1s
Seconds	2016 Jun 8 2355:57?	2016 Jun 8 2355:56.0 to 2355:59.0	3s
Minute	2016 Jun 8 2355	2016 Jun 8 2355:00 to 2356:00	1m
Minutes	2016 Jun 8 2355?	2016 Jun 8 2354:00 to 2357:00	3m
Centiday	2016 Jun 8.98	2016 Jun 8 2331:12 to Jun 8 2345:36	0.01d
Centidays	2016 Jun 8.98?	2016 Jun 8 2316:48 to Jun 9 0000:00	0.03d
Hour	2016 Jun 8 23h	2016 Jun 8 2300:00 to Jun 9 0000:00	1h
Hours	2016 Jun 8.9	2016 Jun 8 2136:00 to Jun 9 0000:00	2.4h
Day	2016 Jun 8	2016 Jun 8 0000 to 2016 Jun 9 0000	1d
Day (scheduled)	2016 Jun 8s	2016 Jun 8 0000 to 2016 Jun 9 0000	1d
Days	2016 Jun 8?	2016 Jun 7 0000 to 2016 Jun 10 0000	3d
Month	2016 Jun	2016 Jun 1 0000 to 2016 Jul 1 0000	1mo
Months	2016 Jun?	2016 May 1 0000 to 2016 Aug 1 0000	3mo
Quarter	2016 Q2	2016 Apr 1 0000 to 2016 Jul 1 0000	3mo
Quarters	2016 Q2?	2016 Jan 1 0000 to 2016 Oct 1 0000	9mo
Year	2016	2016 Jan 1 0000 to 2017 Jan 1 0000	1y
Years	2016?	2015 Jan 1 0000 to 2018 Jan 1 0000	3y
Decade	2010s	2010 Jan 1 0000 to 2020 Jan 1 0000	10y
Decades	2010s?	2000 Jan 1 0000 to 2030 Jan 1 0000	30y
Century	21C	2001 Jan 1 0000 to 2101 Jan 1 0000	100y
Centuries	21C?	1901 Jan 1 0000 to 2201 Jan 1 0000	300y
Millenium	3M	2001 Jan 1 0000 to 3001 Jan 1 0000	1000y
Millenia	3M?	1001 Jan 1 0000 to 4001 Jan 1 0000	3000y

Some additional special values:

Unknown	?	Date entirely unknown
Current	*	Now (for an end date, indicating still active, etc.)

I.1.2 Space and Orbit

I.1.2.1 Where Does Space Begin? 80 km!

In GCAT, I have lists of objects in space as well as some list of objects in the atmosphere. Where does space begin, though? How do we define it? I have written extensively about this question, and the answer (at least for GCAT) is

that space begins at 80 km above the geoid. See my paper on the subject: (See McDowell (2018), Acta Astronautica 151, 668)

The paper also discusses the EL1:4 boundary that I use to mark the start of deep space, which lies at 152066 km from the Earth's center.

I.1.2.2 Orbit

Being in space is not at all the same thing as being in orbit. At least, in the sense of a closed (elliptical or circular) orbit that does not intersect the Earth.

To be strict, though, there are several senses of the word **orbit.** In its broadest sense, an orbit is any trajectory of an object in the local gravitational field. If you stand on the Earth and throw a ball in the air (or make an apple fall from a tree) its path (neglecting aerodynamic effects) is not, as you were taught in school, a parabola. It is in fact a very eccentric ellipse with the perigee extremely close to the center of the Earth. The ball will complete a very small part of this orbit before the surface of the Earth gets in its way. In this sense, 'suborbital' rockets are in fact just orbital rockets with negative perigee height.

Because even many people in the space field don't appreciate this, it's worth doing the worked example. Suppose we throw a ball at a 45 degree angle and a moderate speed of 50 km/hr (13.9 m/s); let us assume we are in Harvard Square (42.4 deg N) and throw the ball due eastwards. The resulting orbit is -6371.8 x -10.0 km x 42.4 deg, an eccentricty of 0.998. (As noted in the section on apogees and perigees, we quote the heights relative to a fictitious 6378 km spherical Earth, and due to oblateness Harvard Square is 10 km below the zero surface.)

At the other extreme, an orbit around the Earth can also be hyperbolic, with eccentricity greater than 1. When a rocket reaches escape velocity, many writers say 'it is now in solar orbit'. From the point of view of calculating its trajectory in an N-body solar system simulator that's not the right way to think about it. The object is travelling away from Earth very fast, but it's still deep in the terrestrial gravity well, far below the geostationary satellites, and the differential effects of the Sun's gravity are negligible. Only several days later does the object reach the edge of the Sun-Earth Hill sphere where it is a better approximation to model it as orbiting the Sun. Until then, I consider it to be in Earth orbit, albeit an unbound one on an escape trajectory.

Different categories of orbit (LEO, GEO etc) are noted in the catalogs and defined in (See the Orbital Categories) section.

I.1.3 Orbital Parameters and Coordinate Frames

I.1.3.1 Perigee and Apogee

The perigee and apogee are respectively the closest and furthers points of the orbit from the Earth's surface. This apparently simple definition has some complications.

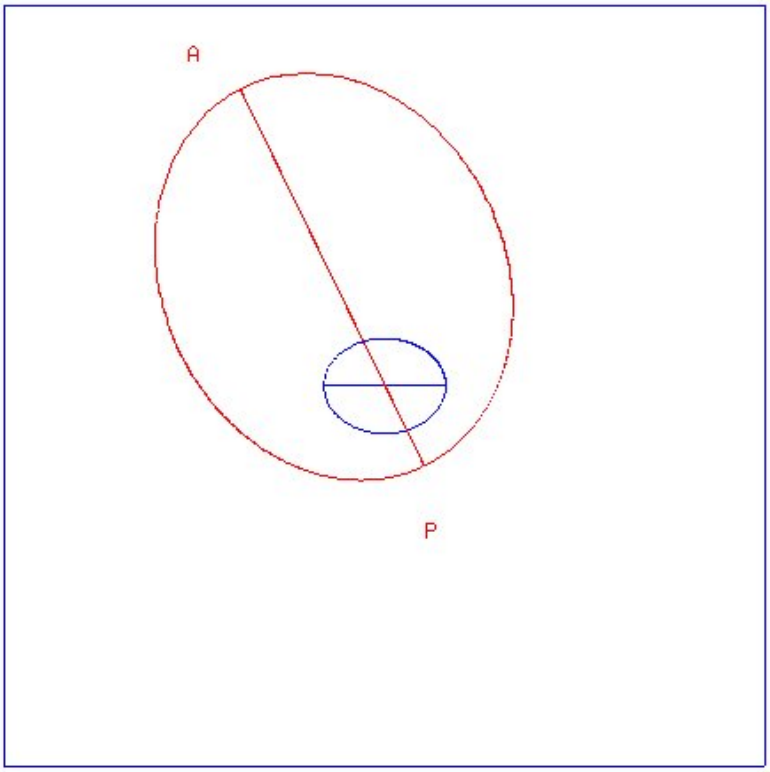
In the strictest meaning of the words, the perigee and apogee are **points** in an elliptical orbit at which the orbiting object has the smallest and largest radius vectors respectively. They lie at opposite ends of the semi-major axis of the ellipse.

We often refer to the perigee and apogee **heights;** i.e. the height of the perigee and apogee points above the planetary surface. Loosely, we drop the word 'height' and refer to these values simply as the perigee and apogee.

But complications arise when you start thinking about the fact that the Earth is not actually a sphere, but (to a much better approximation) an oblate spheroid - its cross-section is also an ellipse. Depending on the orientation of the orbit, the two ellipses are misaligned. In the figure below, a satellite orbit in red is drawn around an exaggerated Earth in blue. In this case, the smallest height of the orbit around the spheroid Earth is not necessarily the height of the perigee point P. In fact in the example shown, the point of smallest height is about 40 degrees further around the orbit.

Worse yet, the flattening of the Earth means that the orbit is not actually an ellipse. The instantaneous ('osculating') orbital parameters **change with time** as you go round the orbit, so the true perigee and apogee are different from ones obtained from time-averaged 'mean elements'.

It is conventional in space situational awareness contexts to quote perigee and apogee heights relative to a fictitious perfectly spherical Earth with radius equal to the equatorial radius. There are a lot of reasons that this makes good sense, but the reader should remember that the actual height above the Earth may be considerably higher if the perigee is over the polar regions.



I.1.3.2 The Friends of Perigee and Apogee

The 'gee' in apogee and perigee is from the Greek word for the Earth. For orbits around other bodies, special names are in use. Most of these are falling out of favour and are being replaced by the terms periapsis and apoapsis, referring to the 'apsis' (plural, apsides), the generic name for the extreme points in the orbit. There are several terms used for selenocentric orbits. I list terms that I've seen in relatively recent use; there are many others. I'm torn between the poetry of them and the fact that they are totally unnecessary.

Central body	Terms	Plural
Still in use		
Earth	perigee, apogee	-gees
Sun	perihelion, aphelion	-helia
Moon	perilune, apolune	-lunes
Moon	periselene, aposelene	-selenes?
Mars	periares, apoares	-ares
Jupiter	perijove, apojove	-joves
Star	periastron, apoastron	-astrons
Galaxy	perigalacticon, apogalacticon	-icones? (not used)
Probably obsolescent		
Moon	pericynthion, apocynthion	-cynthia
Venus	pericytherion, apocytherion	
Saturn	perikrone, apokrone	
Black hole	peribothron, apobothron	-bothroi

I.1.3.3 Coordinate Frames and Units

The orbital inclination (and the node and argument of perigee, which are not given in this release of GCAT) depends on the equator and pole of your coordinate frame.

In GCAT, angles are always expressed in degrees and distances are usually in km (but see below for heliocentric orbits).

- Earth orbits are given with respect to the equator of date (strictly, TEME equator). Note that astronomical positions are often given with respect to the (inertially fixed) ICRF frame. The Earth wobbles due to precession, so the equator of date changes with time relative to the ICRF. Distances are always given in km.
- Heliocentric orbits are given with respect to the J2000 ecliptic. Distances (aphelion and perihelion) are given in astronomical units (AU). 1 AU = 149597870.700 km.
- Orbits around other central bodies (Moon, Mars, etc.) are given with respect to the IAU equator of that body. Where no IAU equator is yet defined in JPL Horizons, the ecliptic is used instead. Distances are given in km.

I.1.4 JCAT Identifiers

The General Catalog (GCAT) uses an alphanumeric identifier (JCAT, originally Jonathan's Catalog ID) to uniquely tag space objects. The identifier consists of a single prefix letter followed by a sequence number with either 5 or 9 digits (examples: A00022; S101234009). The 9 digit case is not yet in use, but is supported in anticipation of the introduction of 9-digit SATCAT numbers by the US DoD.

The leading letter tells you which object catalog the object belongs to, as follows:

JCAT letter	Catalog
A	auxcat (Auxiliary catalog)
C	csocat (Complementary catalog)
D	deepcat (Deep space catalog)
F	ftocat (Failed to orbit catalog)
L	lcat (low altitude catalog)
R	rcat (suborbital catalog)
S	stdcat (Standard catalog)
T	tmpcat (Temporary catalog)

Note that there are no prefix letters associated with the ecat (event catalog), or the heliocentric and lunar-planetary registers, since they contain only objects already defined in the other catalogs.

Also, each object with a D (deep space catalog) designation also has an S or A catalog designation which applies when the object is within near-Earth space.

Sequence numbers in the A, D, F, L, R, and S catalogs are assigned sequentially starting with 00001. However, occasional numbers may be missing due to deletions of spurious or reassigned entries.

Sequence numbers in the C and T catalogs are not assigned sequentially.

Sequence numbers in the S catalog are in one-to-one correspondence with the US SATCAT catalog numbers. Thus, S46112 corresponds to SATCAT satellite 46112 (2020-056A).

In exceptional cases, future releases of GCAT may reassign existing catalog numbers. Any such reassignments will be recorded explicitly in an accompanying table. However, users who have found earlier (pre-GCAT) JCAT catalog numbers that crept into my public files have no such guarantee - in partcular, auxcat numbers previously seen in public files may now refer to different objects.

I.1.4.1 Extended JCAT identifier

The Parent field of the object catalogs supports what I call an 'extended JCAT ID'. This consists of a JCAT ID and a **port location** separated by one or more spaces. The port location defines a specific part of the parent object where the object is attached. It's usually only space station modules or spaceships that have port locations.

Examples of port locations are:

- Docking ports, e.g. A07305 N, Harmony nadir CBM
- JEM Exposed Facility EFU locations, e.g. A07559 EFU5
- ISS truss battery ORU locations, e.g. A07476 1B3

For the time being, there's no formal definition table of these port locations.

In some cases in the object catalog Parent field an asterisk is appended to the identifier. This is a flag that the launch designation in the Piece field is not what you'd expect from the launch designation of the parent. In the normal situation, for example, S45920 has Piece designation 2020-048A, and its parent S45921 has 2020-048B - both are 2020-048 launch pieces. But S45916 has Piece designation 1998-067RP, and its parent is A09547* with piece designation 2020-011, an apparent contradiction. In fact 2020-011 is the correct launch for both, with launch date 2020 Feb 15, but USSF assigns 1998-067 piece designations and a 1998 launch date for all objects released form the ISS. I added the asterisks to facilitate automatic checking: it lets you know to be careful about the launch date and launch information for this object.

I.1.5 Launch Designations and Piece Designations

Each rocket launch in the database is labelled with a unique designation. For successful orbital launches, we use the International Designation (also called the COSPAR designation, after the Committee on Space Research which adopted the system.) For other launches, I use a variation on that scheme of my own design. I introduce the generalized concept of 'launch designation' to include the International/COSPAR designation and other similar schemes. The term 'piece designation' is also introduced to generalize the per-piece (per-cataloged-object) international designation.

Note that for catalog pieces in the SATCAT, the launch encoded in the international designation is not always the actual launch. In particular, all objects deployed from the ISS are give 1998-067 designations (the Zarya launch) even if they were launched on a much later cargo ship. However, the correct launch for an object can be found in the object catalogs by tracing back the Parent fields to the launch vehicle.

I.1.5.1 The COSPAR designation

The COSPAR designation scheme applies to both launches and to cataloged orbiting objects. It has been in use since January 1963.

For launches, the scheme is of the form 'year - launch number in year'. For example, 2005-012 indicates the 12th launch to reach orbit in the year 2005.

For individual objects, a 'piece designation' is used, with a sequence of letters appended to the launch designation; 2005-012E is the fifth (E) piece associated with that launch. The piece letters run from A to Z, then AA to AZ, BA ... to ZZ, AAA to AAZ, etc., always omitting the letters I and O. Usually, the first piece letters are reserved for the main payloads, followed by the rocket stages, followed by debris. However, there are frequent exceptions to this rule.

You can think of the piece letter scheme as a base 24 number. The largest number of pieces assigned to a launch as of 2020 is for 1999-025; object 1999-025EYS is the 3449th piece from the launch (5 x 24 x 24 + 23 x 24 + 17 = 3449). The mapping of piece number to piece letter for the first 72 objects of a launch is given in the figure below for convenience.

Order	Piece Letter	Order	Piece Letter	Order	Piece Letter
1	A	25	AA	49	BA
2	B	26	AB	50	BB
3	C	27	AC	51	BC
4	D	28	AD	52	BD
5	E	29	AE	53	BE
6	F	30	AF	54	BF
7	G	31	AG	55	BG
8	H	32	AH	56	BH
9	J	33	AJ	57	BJ
10	K	34	AK	58	BK
11	L	35	AL	59	BL
12	M	36	AM	60	BM
13	N	37	AN	61	BN
14	P	38	AP	62	BP
15	Q	39	AQ	63	BQ
16	R	40	AR	64	BR
17	S	41	AS	65	BS
18	T	42	AT	66	BT
19	U	43	AU	67	BU
20	V	44	AV	68	BV
21	W	45	AW	69	BW
22	X	46	AX	70	BX
23	Y	47	AY	71	BY
24	Z	48	AZ	72	BZ

Usually the launch numbers are in chronological order within the year. There are, nevertheless, rare exceptions to this rule.

In principle, international designations are assigned to launches and pieces of launches which either complete a full orbit of the Earth or reach the Moon or beyond. Again, there are exceptions - launches which completed an orbit but did not get a designation, and launches or pieces which did not complete an orbit but got a designation anyway.

It is currently conventional to use three digits for the launch number, including leading zeros; e.g. 2020-005A. However, this is not part of the definition of the designation; e.g. 2020-05A is also a valid use and means the same thing.

As a special case, launch number 000 of the year is used for cataloged objects whose parent launch is unknown. This special case has been used very rarely and most of the relevant cases have since been identified with known launches and given revised designations. I tabulate all such cases here.

US Satcat Number	Original designation	Current designation	Notes
S02428	1966-000A	1965-058D	
S02429	1966-000B	1963-014DG	
S02430	1966-000C	1963-014DH	
S02431	1966-000D	1963-014AC	
S04924	1971-000A	1962 B LAM 2 (1962-059B)	
S04925	1971-000B	1964-086B	
S04926	1971-000C	1964-086C	
S05309	1971-000D	1965-108H	
S05310	1971-000E		maybe should be 1971-039D?
S40328	2014-000A	1982-029P	

I.1.5.2 The Harvard designation

The first scheme for designating orbital launches was the Harvard scheme, invented by Fred Whipple and colleagues in 1957 and published in the Harvard Announcement Circulars from the Harvard Observatory. This was of the form ”year - greek letter - piece number”, as in $1957\alpha 2$, indicating the second object of the first (Alpha) launch of 1957.

This system was used for launches until the end of 1962, and the last launch to use the scheme was $1962\beta\omega$. which had two pieces, $1962\beta\omega 1$ and $1962\beta\omega 2$.

However, in later years when new debris objects were discovered from those launches, NORAD (acting on behalf of COSPAR) also designated them using the Harvard scheme. For example, in 1992 a new debris object from the Ablestar 008 breakup was cataloged as NORAD number 21986 and given international designation $1961o300$ (1961 Omicron 300) using the Harvard scheme.

Designation of new objects had at some point been delegated to NORAD by COSPAR. However, it’s not entirely clear that control of the scheme itself was designated. Thus, when in the late 1990s NORAD retrospectively reassigned all Harvard designations using the post-1963 scheme, it’s not clear that was really a legitimate thing to do. From the point of view of historical consistency, I prefer to retain original designations rather than reassign them. Thus, although the US DoD now refers to object 21986 as 1961-015MM, I still use its original designation.

In most of my database files I map the Greek letters to an ASCII representation (mostly because I started this project long before Unicode was a thing). The representation used is indicated in the following table as ‘Code’. ‘Order’ is the numerical order of launch (and the launch number in the new COSPAR scheme). I also provide the full English names of the Greek sequences, since the Greek alphabet may be less familiar to 21st-century readers.

Order	Sequence	Code	English name	Order	Sequence	Code	English name	Order	Sequence	Code	English name
1	α	ALP	Alpha	25	$\alpha\alpha$	A ALP	Alpha Alpha	49	$\beta\alpha$	B ALP	Beta Alpha
2	β	BET	Beta	26	$\alpha\beta$	A BET	Alpha Beta	50	$\beta\beta$	B BET	Beta Beta
3	γ	GAM	Gamma	27	$\alpha\gamma$	A GAM	Alpha Gamma	51	$\beta\gamma$	B GAM	Beta Gamma
4	δ	DEL	Delta	28	$\alpha\delta$	A DEL	Alpha Delta	52	$\beta\delta$	B DEL	Beta Delta
5	ϵ	EPS	Epsilon	29	$\alpha\epsilon$	A EPS	Alpha Epsilon	53	$\beta\epsilon$	B EPS	Beta Epsilon
6	ζ	ZET	Zeta	30	$\alpha\zeta$	A ZET	Alpha Zeta	54	$\beta\zeta$	B ZET	Beta Zeta
7	η	ETA	Eta	31	$\alpha\eta$	A ETA	Alpha Eta	55	$\beta\eta$	B ETA	Beta Eta
8	θ	THE	Theta	32	$\alpha\theta$	A THE	Alpha Theta	56	$\beta\theta$	B THE	Beta Theta
9	ι	IOT	Iota	33	$\alpha\iota$	A IOT	Alpha Iota	57	$\beta\iota$	B IOT	Beta Iota
10	κ	KAP	Kappa	34	$\alpha\kappa$	A KAP	Alpha Kappa	58	$\beta\kappa$	B KAP	Beta Kappa
11	λ	LAM	Lambda	35	$\alpha\lambda$	A LAM	Alpha Lambda	59	$\beta\lambda$	B LAM	Beta Lambda
12	μ	MU	Mu	36	$\alpha\mu$	A MU	Alpha Mu	60	$\beta\mu$	B MU	Beta Mu
13	ν	NU	Nu	37	$\alpha\nu$	A NU	Alpha Nu	61	$\beta\nu$	B NU	Beta Nu
14	ξ	XI	Xi	38	$\alpha\xi$	A XI	Alpha Xi	62	$\beta\xi$	B XI	Beta Xi
15	o	OMI	Omicron	39	αo	A OMI	Alpha Omicron	63	βo	B OMI	Beta Omicron
16	π	PI	Pi	40	$\alpha\pi$	A PI	Alpha Pi	64	$\beta\pi$	B PI	Beta Pi
17	ρ	RHO	Rho	41	$\alpha\rho$	A RHO	Alpha Rho	65	$\beta\rho$	B RHO	Beta Rho
18	σ	SIG	Sigma	42	$\alpha\sigma$	A SIG	Alpha Sigma	66	$\beta\sigma$	B SIG	Beta Sigma
19	τ	TAU	Tau	43	$\alpha\tau$	A TAU	Alpha Tau	67	$\beta\tau$	B TAU	Beta Tau
20	υ	UPS	Upsilon	44	$\alpha\upsilon$	A UPS	Alpha Upsilon	68	$\beta\upsilon$	B UPS	Beta Upsilon
21	ϕ	PHI	Phi	45	$\alpha\phi$	A PHI	Alpha Phi	69	$\beta\phi$	B PHI	Beta Phi
22	χ	CHI	Chi	46	$\alpha\chi$	A CHI	Alpha Chi	70	$\beta\chi$	B CHI	Beta Chi
23	ψ	PSI	Psi	47	$\alpha\psi$	A PSI	Alpha Psi	71	$\beta\psi$	B PSI	Beta Psi
24	ω	OME	Omega	48	$\alpha\omega$	A OME	Alpha Omega	72	$\beta\omega$	B OME	Beta Omega

I.1.5.3 JSR scheme

In the data files associated with my newsletter Jonathan's Space Report (JSR), I introduced a new designation scheme for launches not covered by the existing international designations.

You can call this the "JSR" scheme or even the "New Harvard" scheme (technically I work for the Smithsonian Institution's SAO, and I'm doing this on my own time, but to the extent that I'm on the Harvard campus and support space-related outreach inquiries for the Harvard-Smithsonian Center for Astrophysics, and recalling that Fred's satellite support team was an SAO program too, it's good enough.)

The only other comprehensive scheme for suborbital launch designations that I am aware of was from the World Data Center for Rockets and Satellites-A (WDC/RS-A) at NASA-Goddard. They assigned numbers to sounding rockets using a scheme of the form Ryymm-ddnn - example, R7402-1311 for the 11th cataloged launch on 1974 Feb 13. They only covered scientific sounding rockets (not, e.g., missile launches or failed orbital launches). I considered retaining these designations but instead have found it more useful to use a scheme similar to international designations for orbital launches.

My scheme is similar to the current international designation except that a 'class letter' is added following the hyphen. The letter used indicates the type of launch, as described below. For example, the class letter F denotes a failed orbital launch attempt and the designation 2005-F03 indicates the third failed attempt in the year 2005.

Since the non-orbital catalog is incomplete, and I often identify previously undocumented historical launches, there are many more cases of launch numbers that are not chronological. Thus, 1961-S227 may have a launch date later than 1961-S511. Ordering within a year is therefore essentially arbitrary (although I start off *trying* to make it chronological).

Another wrinkle is that launches can change designation. If I've got documentation on a Nike Apache launch with no information on apogee, I may assume it worked and give it an S designation. If I later find it failed at low altitude, I will retire the S designation and assign a new A designation. I've been rather cavalier about this until now, but hope to be better in future about recording such changes explicitly.

Note that the JSR scheme is only for launches - there is no equivalent of the 'piece letter', at least for now. For space catalog objects from such launches, my practice is to use the launch designation in the 'piece designation' field. Thus, all objects from launch 2005-F03 have JSR designation 2005-F03, rather than being 2005-F03A, 2005-F03B, etc.

The categories used are presented in the following table:

Class Letter	Launches	Criteria
(none)	Orbital launch with COSPAR designation.	
A	Endoatmospheric flight	apogee less than 50
C	Not a launch - Used for groups of objects whose launch is unknown, like some ISS cargo	
E	Pad explosion	rocket blew up, apo
F	Failed orbital launch attempt	
M	Mesospheric flight	apogee between 50
S	Suborbital space launch	apogee more than 8
U	Uncataloged orbital-energy launch	See below.
W	Mesospheric flight	same as M, obsolet
Y	Suborbital space launch	same as S, obsolete

Orbital launch failures (class F) also satisfy the criteria for either A, M or S classes, but differ in that the intent was to achieve orbit. (F overrides A, M or S; but U overrides F.)

Some small meteorological rocket launches have W and Y class letters. I have discontinued assigning new launch designations in these classes, and the existing ones should be treated as if they were in classes M and S respectively.

I use 'U' to indicate a launch that should have received a regular designation but did not (e.g. 1995-U01). I also use it for a small set of interesting launches which had total energy (kinetic + potential) equal or greater than that needed for low Earth orbit with positive perigee. This includes some low-perigee orbital attempts that reentered within one orbit and some high speed reentry tests.

Launches from worlds other than the Earth are given 'U' designations and marked as 'LO' (liftoff) in the event catalog status. Departures from rocks (objects that are not large enough to be round due to self-gravity, working definition: objects with radius less than 200 km) are also marked as 'LO' but are not given launch designations; they are considered to be a new phase in the existing launch.

I.1.5.4 Unknown objects

Sometimes we have to deal with objects of unknown origin - they cannot be assocated with a launch. A few have entries in the official US catalog with a year assigned with launch number zero; designations like 1966-00C, for example. For objects not in the US catalog, I use the special designation 'UNK'.

I.1.6 SatType scheme

Associated with each object in the General Catalog is a 12 byte SatType string that provides a classification of the object. Each byte in the string has a set of defined meanings. (As of late 2022, byte 12 is unused). The SatType data in principle allows one to select subsets of certain kinds of object.

The SatType string can be found in the table column called simply 'Type'.

For each object, the SatType string in the entry for the first phase for that object applies to the whole history of the object. If the type is different in a later phase, that's probably a data entry error.

The byte layout is as follows:

Byte	Contents
Byte 1	Coarse Type (payload, rocket, debris)
Byte 2	Type modifier
Byte 3	Attach flag
Byte 4	Subtype
Byte 5	Orbit flag
Byte 6	Human spaceflight subset
Byte 7	UN registration flag
Byte 8	Failure flag
Byte 9	Uncertain ID flag
Byte 10	Annotation flag
Byte 11	Group control flag
Byte 12: Not yet used	

In each byte, an empty (null) value is represented by blank or dash (the dash is used to help me visually line up the elds during data entry).

I.1.6.1 Byte 1 (Coarse type)

The coarse type allows us to divide the catalog into payloads, rocket stages, and debris. We consider two kinds of debris: components, which are subsystems of the parent object, usually but not necessarily designed to separate, and fragmentation debris, pieces resulting from an object breakup (propellant explosion, weapons test, self-destruct, collision, insulation blanket separation).

Value	Meaning
P	Payload (for orbital attempt)
C	Component
R	Launch vehicle stage
D	Fragmentation debris
S	Suborbital payload (e.g. sounding rocket payload or missile reentry vehicle)
X	Catalog entry that has been deleted (used in auxcat etc.)
Z	Spurious catalog entry (was in SATCAT, perhaps in TLEs, but there was no real object)

I.1.6.2 Byte 2 (Type modifier)

The Byte 2 entries modify the Byte 1 entries (and are not independent of them). Here I tabulate the combined byte 1/2 values and their meanings. (cases where byte 2 is blank are not listed).

Byte 1-2 Value	Meaning
PA	Alias entry.
PH	Spaceship with humans aboard at launch.
SH	Spaceship with humans aboard at launch (suborbital).
SX	Suborbital, special cases not currently further defined
PP or CP or SP	Spaceship with pressurized cabin, but without humans at launch.
PX: Not in standard list of satellites.	
R1 to R5	Stage number for launch vehicle stage.
CC	Cargo placeholder for mass accounting.
CX	Component not to be included in certain standard lists
CD	Deployer for separately integrated payload

PA: The A (alias) modifier is used for special records representing a phase where the satellite is leased temporarily or jointly owned. This phase type is special in that its time period overlaps another phase. An example is object S23779 (Palapa C1, renamed HGS-3 in Nov 2000) From Dec 2000 to Jan 2003 its capacity was leased to

Turk Telecom which called it Anatolia 1. The HGS-3 entry is tagged with SatFlag equal to P (standard payload) while the Anatolia 1 entry covering an overlapping time period is tagged with SatFlag equal to PA to denote that it's a secondary or alias entry that may be ignored.

PP: The P modifier is used for spaceship test flights without crews, pressurized sections of cargo ships, and space station modules.

PX: The X modifier is used to denote 'non-standard payloads'. What is a payload and what is just a component? I take a broader view of 'payload' than most satellite lists do. Some examples of 'PX' types:

- Small passive calibration satellites. Some (e.g. the NRL Calspheres) are included as payloads in standard lists, but others (the ESO test objects released from Soviet Romb payloads) are not - they are given the X modifier. West Ford dipole clumps, however, are counted as components (C).
- Attached payloads. There is a subtle (and perhaps false) distinction between multiple experiments in a single spacecraft and multiple spacecraft permanently attached to each other. Agena spacecraft have a main payload attached to the front end of the rocket and small secondary payloads attached to the back end, integrated separately. I treat these as separate payloads with separate entries, and label the secondary ones with the X modifier.
- Recovery capsules. CORONA missions ejected film capsules with deorbit motors. For the brief moments when they were orbiting the Earth separately I consider them to be payloads.
- There are a few other cases, such as the E-8-5 Luna ascent vehicles and the LRVs.

CC is used for 'down cargo' for space stations returned to Earth or destroyed in cargo ship reentry. Note that we usually don't know the launch date of 'down cargo'.

The D modifier (CD) is used for separately integrated deployers. The D flag has been added to reflect the emergence of intermediary companies like Nanoracks and Spaceflight which sit between the payload owner and the launch provider and manage the integration of customer payloads Note that byte 4 has a V value for 'deployer/clamp band' which is more general and does not imply a separate integration - it includes things like the CRRES canisters or the Shuttle PAM-D ASE. (Well, it's an interesting question whether those count as equivalent to a Nanoracks deployer, but I think the hardware and integration were done by NASA - I could be wrong.)

Objects with a D flag in byte 2 are usually not separate satellites but attached to a parent object (e.g. launch vehicle stage). They are therefore usually in the A (auxiliary) catalog.

I.1.6.3 Byte 3 (Attach flag)

This flag describes why this object is attached to its parent object:

Byte 3 Value	Meaning
A	Permanently attached component or payload
F	Stuck attached by mistake
S	Expected to separate in future
T	Never flew free but transferred
I	Internal

F indicates that the object was intended to separate but failed to do so. S denotes that the object is expected to separate at a later date. T is mostly used for hardware that is transferred from the exterior of one object to another during a spacewalk or using robotic arms.

I is used for entries representing hardware that remains internal to one or more host spacecraft, possibly being transferred between them. Entries of this sort that I keep track of include EVA spacesuits not actually used on an EVA; cubesat dispensers used on ISS; and special entries used to do mass accounting of upward and downward space station cargo. In the future I'm considered adding entries for human space travellers, who would also be internal (either to a spaceship or a spacesuit).

I.1.6.4 Byte 4 (subtype flag)

This byte is used to categorize objects more finely than the byte 1-2 specification. It is useful for gathering statistics about different kinds of debris. Each value is usually only used with a subset of possible byte 1 values as listed below (however, these restrictions are not absolute).

Value	Meaning	Allowed B1 values
A	Payload adapter (e.g. SYLDA)., support structures, interfaces	C
B	Battery explosion debris	D
C	Passive calibration satellites, test objects or chaff	P, C
D	Dummy satellite	P
E	Spacesuit on tethered spacewalk	P (PX)
F	Fairings and other covers	C
G	General, miscellaneous debris	C, D
H	Human spaceflight related	P,C
I	Impact (accidental collision)	D
J	Anomalous debris (insulation, soft material, ablated material)	C, D
K	Possible solid motor slag	D
L	Separated from vehicle after landing (rovers, etc)	P, C
M	Jettisoned motor or tank	C
N	Nuclear reactor core or coolant blob	C, D
O	Unknown debris released at orbit insertion	
P	Propulsion related, residual-propellant breakup	D
Q	Aerodynamic breakup at low perigee	D
R	Reentry vehicle	P
S	Subsatellite or subpayload	P
T	Ejected section of payload	C
U	Untethered EVA	P (PX)
V	Ejection mechanism (deploy canister, clamp band)	C
W	Weapons test, ASAT debris	D
X	Debris of unknown nature	C, D
Y	Despin (yo-yo) device	C
Z	Breakup debris from on-board destruct device	D

Note that code K used to be used for interstages but that meaning has now been merged with code A.

I.1.6.5 Byte 5 (orbit flag)

This flag is used to note special cases related to the object's trajectory. The flag is blank for normal SATCAT entries except for the deep space ones.

Value	meaning
D	Deep Space or escape
E	Destroyed in pad explosion
F	Failed to reach orbit
L	Active on planet surface during this phase
M	Missing from SATCAT by mistake (EXPRESS, IXV)
O	Orbital-Energy but Non-Orbit
P	Partial orbit - reached legit orbit but deorbited after less than 1 rev
R	Reentry orbit: objects that were attached and separated in post-deorbit-burn suborbital trajectory
S	Near-Orbit (marginally suborbital)
T	Transient orbit - separated just (perhaps seconds) before deorbit
V	Escape energy but not deep space
X	Extra catalog entry for extraterrestrially launched object
Z	Launch from extraterrestrial object, recataloged with new D series number.

I.1.6.6 Byte 6 (human spaceflight/special group flag)

This flag is present to support easily identifying all objects in the given categories, such as all satellite deployments from ISS. As such it serves a somewhat different purpose from the byte 2 values. At the moment I've only filled in values for space stations and Shuttle. 'Station' refers to any space station, or indeed any composite space object.

Value	meaning
I	Station program, general
C	Station major non-module component
D	Station deployable subsatellite
E	Station EVA related equipment
G	Pseudo-entry used for station generic cargo mass accounting
M	Station module
S	Space Shuttle program or Shuttle payload or component
T	Piece of visiting vehicle
U	Visiting vehicle or rocket stage deployed satellite
V	Station visiting vehicle

I.1.6.7 Byte 7 (UN registration flag)

This flag notes issues with UN registration for objects that are not standard payloads. Standard payloads (Byte 1-2 = P) should be registered, and the presence of a UNReg entry in the corresponding payload catalog tells you if they are or not (as of the last time I checked the UN site, at least). Non-standard payloads (Byte 1-2 = PX, see the byte 2 discussion) are more complicated. I have attempted to decide whether standard practice implies they should have been registered based on comparison with similar payloads.

Value	Meaning
U	Is, or should be, UN registered even though not a standard payload.
X	Was UN registered but should not have been.

For example, object A06499, the Canadarm-2 on the ISS, is not a standard payload and has no SATCAT entry. Nevertheless it was registered with the UN. A05668 Fasat-Alfa was a satellite that failed to separate from its parent

satellite. It doesn't have a separate SATCAT number from its parent S23657 Sich-1, so it is a 'PX' nonstandard payload; but it was registered by Chile, while Sich-1 was registered by Ukraine. Byte 7 is set to U.

Object A05597 EXPRESS completed several orbits of the Earth. It is a 'PX' nonstandard payload because the US tracking system failed to catch it, and it doesn't have a SATCAT number. Nevertheless Germany should have registered it with the UN and did not. Byte 7 is set to U.

On the other hand, A06874 Celestis-04 Error was registered with the UN but should not have been, since it was removed from the rocket before launch and never got to space. Byte 7 is set to X.

Object A07634 ELC-1 is a logistics carrier launched on the Shuttle and later attached to the ISS. Although the US has usually registered ISS pressurized modules, other similar minor ISS components (such as the other ELCs and the major truss segments) have not been registered, so for consistency ELC-1 shouldn't have been registered either. Byte 7 is set to X.

I.1.6.8 Byte 8 (Failure flag/Constellation status flag)

An asterisk in this field records which rocket stage was to blame in an orbital launch failure. An asterisk in byte 8 says that this object was, broadly speaking, the culprit.

For a debris object, a numeric value in this field (1,2, etc) groups objects in a particular debris cloud for a launch which has multiple associated debris events. (I have only used this a few times.)

Other values indicate different kinds of payload failure (or success) and have been added to support analysis of the Starlink constellation.

Value	Meaning
*	This object was the one that failed during launch.
A	Satellite ascending: orbit raising to op orbit (or lowering from high drift orbit)
D	Satellite in plane drift orbit
F	Satellite failed early in mission, before reaching operational orbit ("screened")
G	Satellite retired to a graveyard orbit of some kind
L	Satellite removed far from operational constellation by lowering or raising orbit
M	Satellite failed in operational orbit and is undergoing uncontrolled decay - non manueverable
O	Satellite is active in operational orbit
R	Satellite reentered after active orbit lowering
S	Satellite was used for special tests outside of main constellation
T	Satellite removed slighly (and possibly temporarily) from operational constellation by lowering or raising orbit a little
U	Satellite apparently malfunctioning, held in intermediate orbit for debugging?

I.1.6.9 Byte 9 (ID flag)

This flag notes problems with the identification of the object.

Value	Meaning
?	The association of this satellite with this catalog number is a guess because JSpOC has not yet assigned a name. ID may change in future.
+	Starlink filing with FCC reports this satellite is out of service but could still maneuver, at the time of filing. Starlink filing with FCC reports this satellite is out of service and can not maneuver.
m	Multiple objects. This entry is a placeholder for a known debris event where no debris has yet been cataloged by DoD.
C	US government orbital data for this object are secret.
c	Older US government orbital data for this object were secret, but current data is public.
U	This object is a cargo item on ISS (or other station) and has been assigned to a likely cargo launch but the actual launch for this object is not known.
D	This object is a cargo item on ISS (or other station). The return date is uncertain and I've made a guess at which ship it went down on.
X	We don't know which launch this object is from, so the launch date is unknown (and other parameters may also be unknown).
s	Disagreement between TLE and SupTLE data (true for S45139)

I.1.6.10 Byte 10 (Annotation flag)

This byte is used to control display options in certain software associated with the database. It should be ignored by other software.

At present, possible values of this byte are r,g,b,c,m,y,k indicating colors chosen for data associated with the specific satellite in automated plots, e.g. of altitude vs time.

I.1.6.11 Byte 11 (Group control flag)

This byte is used to include or exclude objects from the debris clouds in the debris cloud catalog.

Value	Meaning
+	Object included in debris cloud analysis
-	Debris object not counted as part of debris cloud

I.1.7 Phases and Status Values

Each entry in the General Catalog represents a time period or phase in the flight history of an object. The !b status value describes the status of the object at the end of the phase. Typical values of the status are 'O' (still in orbit) and 'R' (reentered). But it can get a lot more complicated.

I.1.7.1 Phases

Each time an object transitions to another state (undocks, is attached to something, reenters, changes which body it is orbiting, etc.) marks the beginning or end of a **phase.** Most objects in GCAT have only a single phase - they separate from an object (launch vehicle) and then are either still in free flight or have reentered. However, some objects go through many phases.

The phase is defined by a set of fields in the object catalog entry.

Field	Symbol	Format	Description
Parent	P	EJCAT/Body	the parent can be an extended JCAT ID (EJCAT) or a body name.
SDate	t1	VagueDate	the phase start time. This can be the time the object separated from the parent EJCAT or the time the object departed the parent body's gravitational sphere of influence (SOI)
Primary	C	Body	the name of the central body for this phase
DDate	t2	VagueDate	the phase end time
Status	S	Phase Status Code	a code describing the event that ends the phase
Dest	D	Location/Body/JCAT	'destination', a string whose definition depends on the Status value. It can be empty, a Location, a body, or a JCAT.

Also relevant is te, the orbit epoch ODate, mentioned in a few cases below.

The symbols in the table above are used in the discussion below for conciseness.

A **location** can be expressed as a string (uncontrolled text, e.g. 'W Atlantic') or as longitude/latitude coordinates (e.g. 74W 22S). The Dest field may be blank if reentry location is unknown.

The different kinds of phases are defined by the Status field. They are given in a somewhat arbitrary order that makes sense to me, and grouped by what kind of Dest field is used. The state of an object includes its 'externality' - is it free, attached to a parent object externally, or is it inside its parent object. This externality is also described in the following table defining the different Status codes. The table assumes (in the interpretation of t1 and t2) that P is a EJCAT rather than a body. If P is a body then t1 represents the time the object went from P's SOI to C's SOI; if D is a body then t2 represents the time the object went from C's SOI to D's SOI.

(Added 2021 Oct:) For cases where a vehicle is reused in a new launch (e.g. Space Shuttle Orbiter), the REFLT status is used to connect the objects. For example, the Space Shuttle OV-102 Columbia flew on mission STS-1 as orbital launch 1981-034, catalog S12399, piece designation 1981-034A. When it flew again on STS-2, NORAD gave it a new launch number 1981-111, catalog number S12953, and piece designation 1981-111A. Understandably the NORAD (now Space Force) tracking system cannot know from tracking data that the objects are the same vehicle - but historians do. I add an extra phase to S12399 (STS-1) after the landing, with zero duration, status REFLT, and dest equal to S12953, to signal that S12399 later got relaunched as S12953. Note that only a few entries of this kind have been added at the time of this writing.

I acknowledge that there is a bit of a 'ship of Theseus' problem here: is the orbiter that flew on STS-93 really the 'same object' as the one that flew STS-1?

The case of re-launches from other worlds is slightly different, in that Space Force does NOT assign a new catalog number, but I do - when the launch is from a world, not a small rock. For Apollo 11, three objects get new catalog numbers: the LM 5 Eagle ascent stage and the two EVA suits. EVA suit A7L-056 was given auxiliary catalog A01625 for its launch from Earth (launch designation 1969-059). On reaching deep space aboard Eagle it is given designation D00265. The last A01625 phase has status DSA with dest D00265 to tie the two together. The suit retains its D00265 designation through the lunar surface EVAs. Then it has a phase with the REFLT tag reassigning it to a new catalog number D01053 associated with a new launch, 1969-U01, corresponding to the launch of Eagle from the lunar surface. This follows the spirit of what NORAD did with STS-1 - when relaunching the same thing it gets new launch designations and catalog numbers - even though NORAD does not actually do this when the launch is not from Earth. Suit A7L-056 retains the new D01053 catalog number and 1969-U01 launch designation through its landing in the Pacific aboard D00273/1969-059A Columbia.

For the actual extraterrestrial re-launching itself, I retain the ‘LO’ status tag used previously but add a dest value. ‘LO’ should now be considered as equivalent to REFLT for such cases. Thus, for Eagle’s ascent stage we have: launched from Earth as 1969-059C, catalog S04041. Reached deep space and reassigned as 1969-059C, catalog D00274, via a DSA status tag to connect the catalog numbers. Relaunched from the Moon as new launch 1969-U01, catalog D01052. The final D00274 phase has status LO with dest D01052 to connect it to the new catalog number.

For ‘launches’ (departures) from low gravity objects that I don’t count as worlds, I don’t give new launch designations. I think of it more like an undocking in such cases! In these cases, the LO status tag does not have a new catalog number in the Dest field.

In earlier versions of the catalog, I did not distinguish between planetary flybys and orbital missions. Both used the ’EO’ take for a swich of sphere of influence. For an orbital mission, however, the phase within the planetary sphere of influence includes three sub-phases: hyperbolic approach from sphere of influence to orbit insertion, elliptical bound orbit phase, and (hyperbolic) departure from orbit escape to sphere of influence (or to impact/landing).

In versions prior to 1.4, suborbital objects were given status ’R’. However their reentry, although it doesn’t involve a deorbit burn, is at a predictable time and targeted location, which is importantly different from uncontrolled reentries of orbital objects. The new status value ’S’ is now used for suborbital targeted reentries and also (a bit more questionably) for launch failures. The ’LF’ code for failed landing has not been used generally - some ’D’ should really be ’LF’.

Status value	Description	Interpretation	Externality
Cases with t2 and Dest both empty			
O	In orbit	Sep from P at t1, still in free flight	Free
AO	Attached in orbit	Attached to P from t1 to present	External
AO IN	Attached inside	Inside P from t1 to present	Internal
UDK	Undocked	Docked to P from t1 to t2, sep from P at t2	External to fr
REL	Released	Attached to P from t1 to t2, sep from P at t2	External to fr
DEP	Deployed	Same as REL but for objects on planetary surface	External to fr
TO	Takeoff	Launch from C surface (C is a small body, not a world)	Free
TOA (was ALO)	Attached at takeoff	Attached to P from t1 to t2 including at launch from C surface.	External
OX	In orbit (probably) but lost	As O, but no recent tracking data	Free
Dest is always blank but t2 is not			
E	Exploded	Sep from P at t1, free in orbit until breakup at t2. Next phase of this object is a debris fragment.	Free
N	Renamed	In orbit from t1 to t2, name or owner changed at t2. Next phase reflects new name and owner	Free
NA	Renamed attached	Attached to P from t1 to t2, name or owner changed at t2. Next phase reflects new name and owner	External
LEASE	Lease	Temporary lease from main owner from t1 to t2. Sat-Type code is PA.	Free
Dest is a location on C, or C itself, or blank (see also 'Dest is a body name' b			
S	Targeted suborbital entry/impact	Sep from P at t1, crashed or destroyed in atmosphere at t2 at end of launch trajectory	Free
R	Reentered	Sep from P at t1, destroyed in C's atmosphere at t2 after natural decay	Free
D	Deorbited	Sep from P at t1, destroyed in C's atmosphere at t2 via active deorbit maneuver	Free
L	Landed	Sep from P at t1, landed or splashed down on C's surface at t2	Free
LF	Failed landing	Intact landing intended but actually destroyed on impact	Free
AS	Suborbital reentered attached	Attached to P from t1 to t2 when P reentered	External
AR	Reentered attached	Attached to P from t1 to t2 when P reentered	External
AR IN	Reentered inside	Inside P from t1 to t2 when P reentered	Internal
AL	Landed attached	Attached to P from t1 to t2 when P landed	External
AL IN	Landed inside	Inside P from t1 to t2 when P landed	Internal
TX	Transmission ended	Operated on C's surface from t1 to t2	Free
F	Failed	Sep from P at t1, crashed or destroyed at t2 during launch failure	Free
AF	Failed attached	Attached to P at all times until it and P crashed or destroyed at t2 during launch failure	External or i nal.
Dest is a JCAT from D catalog (deep space). JCAT ID used in deep space catalog f			
DSO	Deep space	Sep from P at t1, passed deep space boundary at t2.	Free
DSA	Deep space attached	Attached to P since t1, passed deep space boundary at t2.	External
DSA IN	Deep space inside	Inside P since t1, passed deep space boundary at t2.	Internal
LO	Liftoff	Launch from C surface (C is a world but not Earth), catalog reassigned to dest	Free
LOA	Reflight attached	Launch from C surface (C is a world but not Earth) aboard parent object, catalog reassigned to dest	External or I nal
Dest is a JCAT from the main catalogs (not from D catalog)			
DK	Docked	Sep from P at t1, docked with D at t2	Free to Extern
GRP	Grappled	Sep from P at t1, docked with D at t2	Free to Extern
ATT	Attached	Was attached to P at t1, then attached to D at t2	External.
TFR	Transfer	Inside P at t1, moved inside D at t2	Internal
TFR E	Transfer external	Inside P at t1, moved to exterior of D at t2	Internal to Ex nal
TFR IN	Transfer in	Outside P at t1, moved to interior of D at t2	External to In

For case C (Collision) the collision can result in the destruction of the object, in which case there is no subsequent phase; or the object can survive, in which case t2 starts a new phase. If object A collides with object B, there is a C status for each of the objects A and B. That is, A has a phase that ends with 'A collides with B', and B has a phase that ends with 'B collides with A'. If A survives, B is the parent object for A's next phase, and vice versa.

For cases R, D, AR, AR IN: if C has no atmosphere, t2 is the time of impact on C's surface. Natural decay includes orbit perturbation due to mascons, and direct impact without first entering bound orbit.

For cases DSO, DSA, DSA IN; the object is considered to have left the main part of GCAT at t2. Its old JCAT ID no longer applies and the Deep Space Catalog JCAT ID is used for further phases of its history.

For case LO, when taking off from a world a new launch designation and catalog number are assigned - it is treated as a new launch. For case TO, when taking off/departing from a small body, I don't consider it a new launch and no reassignment is made.

For case EVA RP, P and D are usually the same airlock. The phase may involve moving outside airlock and returning ('spacewalk'), but sometimes the 'EVA' may be entirely internal, working inside the depressurized airlock for the duration. Sometimes I use the phrase 'depressurization activity' rather than 'EVA', since the initial E is not necessarily applicable.

The cases OI, OE, EN, EO and EAO are only used in the Deep Space Catalog and the heliocentric and lunar-planetary registers.

I.1.8 Launch Success Fractions

The practice, of which I and others have long been guilty, of evaluating launch vehicle reliability based on a simple pass/fail value for each launch is rather a blunt instrument. To try and do a bit better, I have added a **launch success fraction** in some cases.

In the LaunchCode field of the launch lists, I take a rather old-fashioned view of success and failure. Nowadays, if a commercial satellite launch vehicle fails to deliver all its customer payloads to the correct orbit in working order, the launch is considered a total failure. In the 1950s, however, a US government launch that got only a few metres off the pad might still be considered a 'partial success', for example because it demonstrated the correct functioning of the engine ignition system and the ability of the rocket to fly in vaguely the right direction.

When you're assessing the capability of launch vehicles over decades and comparing those from new space players and established spacefarers, this older approach is actually helpful. In 2012 I introduced the following scheme.

For pass/fail purposes I consider a score of less than 0.75 to be a failure; one could argue for lowering that boundary a little bit.

For launches with a single payload, or multiple equal-priority payloads, I give:

- full success	1.00	
- orbit usable but not nominal	0.75	
- orbit but not a usable one	0.40	
- payload failed to separate or fatally damaged by LV	0.25	(even if good orbit)
- orbit not reached	0.00	(or reentry after circa 1 orbit)

For missions with primary (P) and secondary (S) payloads, a rough scaling to give the P 3 times the weight of S -

- full success	1.00
- S off-nominal orbit	0.95
- S unusable orbit	0.85
- S failed to sep	0.75
- P off-nominal orbit	0.55
- P unusable orbit	0.30
- P failed to separate	0.10

There's still some subjectivity here, and I've allowed myself to assign intermediate values, e.g. when an orbit is only slightly off-nominal. Now obviously scores of 0.40 or less are going to mean an unhappy customer, but I think it's still worth distinguishing from complete failure to orbit a it usually indicates a vehicle which is 'close' to working in contrast to some vehicles which never make it beyond first or second stage burn.

In my initial implementation in 2012, the scores assigned that differ from 0.0 and 1.0 were:

Score	LaunchCode	Launch (Launch desig, vehicle)
0.25	OF25	96-061 Pegasus
0.40	OF40	63-021 Thor Agena, 67-032 Proton. 76-062,76-088, 80-031,
0.45	OF45	04-050 Delta 4H (primary payload medium-bad orbit, secon
0.50	OF50	01-029 Ariane 5/V142
0.75	OS75	97-057 PSLV, 97-066 Ariane 502, 07-027 Atlas V/NROL-30
0.80	OS80	00-048 Delta 3, 01-015 GSLV (somewhat off-nominal orbit)
0.85	OS85	12-054 Falcon 9 (primary perfect, secondary unusable)

I.1.9 Failure codes

The launch list files now include a column for a failure code. The values have not yet been filled in; this will be a 'work in progress' for a while. The codes are designed to describe orbital launch failures, but are also occasionally applied to suborbital flights.

In some orbital launches, the launch vehicle targets a suborbital trajectory and the payload has its own engine to perform orbit insertion. This can lead to a situation where the LV is fully successful but the payload does not reach orbit due to a malfunction of its own (cases PG, PI, PP).

sAn asterisk at the end of the code (e.g. S2P*) indiicates that despite the failure, subsequent stages continued to operate and fired correctly except for being on the wrong trajectory.

- AD	Accidental destruct (erroneous range safety or onboard destruct or termination)
- AL	Accidental launch or ignition (Discoverer 0, Tianlong-3 S1).
- FF	Fairing related failure (no fairing sep, or MaxQ failure, fairing destroyed)
- FS	Structure failure other than fairing and other than due to previous loss of control
- PA	Payload failed to separate from payload adapter
- PE	Exploded on pad prior to lifting off
- PG	Payload orbit insertion system, attitude or guidance problem
- PI	Payload orbit insertion system, ignition problem.
- PP	Payload orbit insertion system, propulsion problem
- Sn	Failure in stage n, e.g S2 is failure in stage 2
- SnB	Boom - Exploded or RUD during stage n
- SnE	Electrical or power systems failure during stage n.
- SnG	Guidance or attitude control failure during stage n, including software error
- SnGm	Guidance, attitude control failure during burn m of stage n, including software error
- SnI	Failure in stage n, engine did not ignite or did not reach full thrust
- SnP	Propulsion failure in stage n, early shutdown including lack of propellant
- SnPm	Propulsion failure in burn m (m=2 or more) of stage n, early shutdown including lack of propellant
- SnR	Failure of stage n to restart for burn 2 or later
- SnS	Separation failure or bad separation between stage n and stage n+1
- SnU	Underperformance during stage n
- U	Failure, all details unknown
- UX	Unconfirmed failure (may not have launched, or reaching orbit may not have been intended).
- WX	Weather (lightning strike or other)

I.1.10 Orbital Categories

The following table gives the abbreviations I use to summarize different orbital categories (notably, in the OpOrbit field of the object catalogs.) LEO is (the upper part of) Low Earth Orbit; LLEO is Lower LEO, below 600 km. GEO is Geosynchronous Earth Orbit.

'Height' h is defined as geocentric semi-major axis minus Earth equatorial radius: (a-6378.0 km); i.e. average of conventional perigee (hp) and apogee (ha) heights. Heights are in km, inclination in degrees.

One common conventional upper boundary of LEO is a 2 hour period (and it's enshrined in code as part of the SGP4 model.) Orbital period makes the most sense for defining boundaries between there and GEO, while height makes the most sense for the lower boundaries. This makes the definition scheme a bit patchwork - sorry.

Prior to release 1.3 (Sep 2022) I used a 2-hour period (1681 km altitude) as the upper boundary of LEO. I now use 2000 km altitude, which has become the more common usage in recent years.

Code	Name	Period (hr:min)	Height (km)	Inclination (deg)	Eccentricity
ATM	Atmospheric		ha below 80		
SO	Suborbital		hp below 0, ha above 80		
TA	Trans-Atm.		hp from 0 to 80, ha above 80		
LLEO/E	Lower LEO/Equatorial		h 80 to 600	0 to 25	
LLEO/I	Lower LEO/Intermediate		h 80 to 600	25 to 85	
LLEO/P	Lower LEO/Polar		h 80 to 600	85 to 95	
LLEO/S	Lower LEO/Sun-Sync		h 80 to 600	95 to 104	
LLEO/R	Lower LEO/Retrograde		h 80 to 600	104 to 180	
LEO/E	Upper LEO/Equatorial	h 600 to 2000	0 to 25		
LEO/I	Upper LEO/Intermediate	h 600 to 2000	25 to 85		
LEO/P	Upper LEO/Polar	Up to 2:07	h 600 to 2000	85 to 95	
LEO/S	Upper LEO/Sun-Sync	Up to 2:07	h 600 to 2000	95 to 104	
LEO/R	Upper LEO/Retrograde	Up to 2:07	h 600 to 2000	104 to 180	
MEO	Medium Earth Orbit	2:07 - 23:00			0.00-0.50
HEO	Highly Elliptical orbit	4:03 - 23:00			0.50-0.92
HEO/M	Molniya	11:30 - 12:30		62.0 - 64.0	0.50 - 0.77
GTO	Geotransfer	10:00 - 12:30		0.0 - 85.0	0.50 - 0.77
GEO/S	Stationary	23:55.5-23:56.5		0.0 - 3.0	0.00 - 0.01
GEO/I	Inclined GEO	23:55.5-23:56.5		3.0 - 25.0	0.00 - 0.05
GEO/T	Synchronous	23:55.5-23:56.5		0.0 - 180.0	0.00 - 0.85
GEO/D	Drift GEO	23:00 - 25:00		0.0 - 3.0	0.00 - 0.05
GEO/SI	Inclined GEO	23:55.5-23:56.5		3.0 - 25.0	0.00 - 0.05
GEO/ID	Inclined Drift	23:41 - 24:11		3.0 - 25.0	0.00 - 0.05
GEO/NS	Near-sync	23:00 - 25:00		0.0 - 180.0	0.0 - 0.85
VHEO	Very High Earth Orbit	Above 25:00		0.0 - 180.0	0.0 - 1.00
DSO	Deep Space Orbit		h above 145688 to 318200		0.0 to 1.0
CLO	Cislunar/Translunar		h from 318200 to 1.5 million		0.0 to 1.0
EEO	Earth Escape		h less than 1.5 million		Above 1.0
HCO	Heliocentric		h more than 1.5 million		Heliocentric e
PCO	Planetocentric		Central body not Earth or Sun		
SSE	Solar System Escape				Heliocentric e

I.1.11 Uncataloged ('U') Launches

I.1.11.1 The U designation

In the (See launch designations) section we mention the 'U' entries. These are launches for which I assign designations for the form 1969-U01, etc. They are launches which are not in the usual lists of orbital launches, but which are close to making the cut for various reasons, and most of them are pretty interesting.

Orbital launches usually have international designations ('COSPAR designations'). Assignment of these designations was delegated in the early 1960s by the UN COSPAR to the World Data Center A for Rockets and Satellites, who at some point further delegated it to NORAD, today in the form of the US Space Force 18th Space Control Squadron.

The traditional rule was that any launch from the Earth which resulted in an object completing one or more orbits of the Earth would receive a designation. This rule has not always been followed.

I assign U designations for several categories of launch that I consider interesting:

- 'Skipped launches': Launches which should have received international designations but did not, either because the US failed to track them or because the rule was not followed.
- 'Marginal orbit': Attempted orbital launches which failed to reach a sustained orbit, but fell just short; typically perigee between -500 km and +100 km. Since the exact orbit attained is often uncertain, I have tended to be inclusive when deciding whether to assign such launches a 'U' rather than an 'F' designation. You can think of this category as a way to pull out 'interesting' launch failures that were really close to succeeding, as opposed to ones that blew up just above the pad.
- 'Suborbital with orbital energy': Suborbital launches that have a high apogee (more than a few thousand kilometres) have a total energy (kinetic plus potential) that is greater than a low orbit satellite, in contrast to the vast majority of suborbital sounding rocket and missile flights which are well short of orbital energy. Thus, these are 'interesting' suborbital launches than are in some sense close to being orbital.
- 'Reentry with orbital energy': suborbital launches with stages that fire their payload down fast into the atmosphere to test reentry behaviour. In some cases these even have escape velocity, but going in the 'wrong' direction. They may only traverse a small segment of the indicated orbit; for example the orbital parameters of Meteor 4/5 have a large apogee but the vehicle didn't ever get to that apogee, flying on a small segment of the downward arc of the orbit with a maximum actual altitude of 110 km.
- 'Extraterrestrial launches': launches from worlds other than the Earth. (So far, that's just the Moon). 'Worlds' here means large (self-gravitatingly round) bodies; departures from comets and small asteroids are considered equivalent to undockings rather than launches and are not given separate launch designations.

For convenience, here is an annotated table of all the U launches. 'Actual Apo' indicates the actual maximum height above Earth reached. 'Orbit Peri' and 'Orbit Apo' define the orbit that the spacecraft was on for at least a few moments, even if they did not reach either orbit extreme. Recall that negative apogees represent hyperbolic (above escape velocity) trajectories, albeit in this case heading downwards into the atmosphere.

The C3 value, usually used for Earth escape launches, is a measure of the orbital binding energy per unit mass, in km**2/s**2 or (equivalently) MJ/kg; the SpE value is the total kinetic plus potential energy per unit mass, in the same units; the two are not independent, as SpE = 0.5* C3 + 62.5. C3 is negative for objects bound to Earth and positive if they have escape velocity; SpE is always positive and I find it more intuitive for the marginal-orbit cases.

Designation	Launch Date	Launch Vehicle	Site	Payload
1957-U01	1957 Oct 17 0505	Aerobee USAF 88	Holloman ADC	USAF 8
1958-U01	1958 Sep 26 1538	Vanguard SLV-3	Canaveral LC18A	Vanguar
1959-U01	1959 Jun 25 2247	Thor Agena A 179	Vandenberg 75-3-5	CORON
1960-U01	1960 Apr 15 1506	Vostok-L L1-9	Baykonur LC1/5	Luna E-
1960-U02	1960 Sep 21 1301	Blue Scout Jr D-1	Canaveral LC18A	D-1 Prol
1960-U03	1960 Oct 4 1523	Scout X-1 ST-2	Wallops LA3	ST-2 Pro
1961-U01	1961 Aug 17 1429	Blue Scout Jr D-1	Canaveral LC18A	O-1 Prol
1961-U02	1961 Apr 21 0556	Trailblazer I	Wallops	Trailblaz
1961-U03	1961 Oct 19 1738	Scout X-1 ST-7	Wallops LA3	ST-7 Pro
1961-U04	1961 Dec 4 0400	Blue Scout Jr O-2	Point Arguello LC-A	O-2 Prol
1962-U01	1962 Mar 29 0727	Scout X-2 ST-9	Wallops LA3	ST-9 Pro
1962-U02	1962 May 6 0541	Trailblazer 2	Wallops	Meteor
1962-U03	1962 Aug 31 1625	Scout X-3A S114	Wallops LA3	Reentry
1963-U01	1963 Jul 30 1616	Blue Scout Jr 22-1	Canaveral LC18A	AFCRL-
1964-U01	1964 Mar 12 0417	Nike Cajun	Wallops	Meteor 2
1964-U02	1964 Apr 14 2142	Atlas 263D	Kennedy LC12	FIRE 1
1964-U03	1964 Apr 21 1850	Thor Ablestar 379/AB014	Vandenberg 75-1-1	Transit V
1964-U04	1964 Aug 18 0605	Scout X-4A S129R	Wallops LA3	Reentry
1964-U05	1964 Nov 7 0138	Nike Cajun	Wallops	Meteor 4
1965-U01	1965 Dec 16 1409	R-36O U22502-01L	Baykonur LC67/21	OGCh N
1965-U02	1965 Jan 19 1404	Titan II GLV-2	Kennedy LC19	Gemini
1965-U03	1965 May 4 0550	Nike Cajun	Wallops	Meteor 6
1965-U04	1965 May 22 2155	Atlas 264D	Kennedy LC12	FIRE 2
1965-U05	1965 Mar 30 1609	Blue Scout Jr 22-4	Kennedy LC18A	AFRCL-
1965-U06	1965 Apr 9 1810	Blue Scout Jr 22-9	Kennedy LC18A	AFWL-
1965-U07	1965 May 12 1602	Blue Scout Jr 22-8	Kennedy LC18A	AFCRL-
1965-U08	1965 Jun 9 1626	Blue Scout Jr 22-5	Kennedy LC18A	AFWL-3
1966-U01	1966 Feb 5 1219	R-36O U22502-02L	Baykonur LC67/21	OGCh N
1966-U02	1966 May 19 1930	R-36O U22502-04L	Baykonur LC67/21	OGCh N
1966-U03	1966 Feb 10 0055	Scout X-4A S141C	Wallops LA3A	Reentry
1966-U04	1966 Feb 26 1612	Saturn IB SA-201	Kennedy LC34	Apollo A
1966-U05	1966 Mar 18 0115	Trailblazer 2	Wallops	Meteor 8
1966-U06	1966 Aug 25 1715	Uprated Saturn I SA-202	Kennedy LC34	Apollo A
1966-U07	1966 Sep 17 0157	Nike Cajun	Wallops	Meteor 9
1966-U08	1966 Dec 21 2215	Atlas SLV-3 7001	Vandenberg SLC3E	SV-5D F
1967-U01	1967 Feb 14 0552	Trailblazer 2	Wallops	Meteor
1967-U02	1967 Mar 5 2305	Atlas SLV-3 7002	Vandenberg SLC3E	SV-5D F
1967-U03	1967 Apr 20 0135	Atlas SLV-3 7003	Vandenberg SLC3E	SV-5D F
1967-U04	1967 Oct 19 1733	Scout B S159C	Wallops LA3A	RAM C-
1968-U01	1968 May 20 2205	R-36O Ya22500-18L	Baykonur LC162/36	OGCh N
1968-U02	1968 May 27 2315	R-36O Ya22501-19L	Baykonur LC161/35	OGCh N
1968-U03	1968 Aug 22 1516	Scout B S168C	Wallops LA3A	RAM C-
1969-U01	1969 Jul 21 1754	LM 5 Ascent Stage	Tranquility Base	LM 5 Ea
1969-U02	1969 Nov 20 1425	LM 6 Ascent Stage	Surveyor 3 Site	LM 6 In
1969-U03	1969 Jan 25 1114	Tsiklon-2A No. 12L	Baykonur LC90/19	US-A N
1970-U01	1970 Sep 21 0743	E-8-5 VS	Luna-16 site,Mare Fecunditatis	E-8-5 N
1970-U02	1970 Jun 12 0110	Europa I F-9	Woomera LA6A	ELDO S
1970-U03	1970 Nov 30 2240	Atlas Centaur AC-21	Kennedy LC36B	OAO B
1971-U01	1971 Feb 6 1848	LM 8 Ascent Stage	Fra Mauro Base	LM 8 As
1971-U02	1971 Aug 2 1711	LM 10 Ascent Stage	Hadley Base	LM 10 F
1971-U03	1971 Sep 20 2331	Scout B S166C	Wallops LA3A	Barium
1972-U01	1972 Feb 22 2258	E-8-5 VS	Luna-20 site, Apollonius C	E-8-5 N
1972-U02	1972 Apr 24 0125	LM 11 Ascent Stage	Descartes Base	LM 11 C
1972-U03	1972 Dec 14 2254	LM 12 Ascent Stage	Taurus-Littrow Base	LM 12 C
1973-U01	1973 Apr 25 0910	Tsiklon-2 No. 17L	Baykonur LC90	US-A N
1973-U02	1973 May 21 0847	Diamant B No. 5	Kourou ELD	D-5A/D
1976-U01	1976 Aug 19 0525	E-8-5 VS	Luna-24 site, Mare Crisium	E-8-5 N
1976-U02	1976 Jun 18 1147	Scout D-1 No. S193C	Wallops LA3A	Gravity
1979-U01	1979 Oct 12 1230	Soyuz U 77025 419	Plesetsk LC43/3	Argon (2

I.1.12 Analyst Objects

In the derived catalog 'currentcat' I have added about 700 objects with 'C' prefixes. These are debris objects tracked by the US Space Force which they have not identified with a specific launch.

I.1.12.1 Analyst Objects in the Space Force Catalog

The main, public US Space Force catalog has a running catalog number starting with 1 (Sputnik 1 rocket stage) and going to currently somewhat over 51000.

The criteria for a previously undetected debris object being added to the catalog are traditionally:

- Object remained in space for more than one full orbit
- Object's orbit is well determined and followed over a period of time (many orbits). I will refer to this as it being a 'persistent object', as opposed to radar tracks that are not seen again. (For astronomers: This is analogous to the difference between a minor planet with a provisional designation and one with a permanent asteroid number.)
- Object is identified as being from a specific launch, so that it can get an 'international designation'

The Space Force also generates orbital solutions for objects which do not yet meet these criteria, but might later get added to the catalog. These are called 'analyst objects' (the data will be studied by analysts for possible later identification). Historically these are assigned fake catalog numbers between 80000 and 90000 (and possibly between 70000 and 80000, although the orbital data for those has not generally been released). More recently, objects detected by the Space Fence have been given numbers starting at 270000.

A few datasets of the analyst object TLEs became public (possibly inadvertently) over the years, and then in 2020 a subset of analyst TLEs started being regularly released by 18SPCS on Space-Track.org.

To distinguish the analyst objects, I add them to my supplementary CSOCAT catalog (which also contains objects from other sources such as hobbyists). CSOCAT catalog numbers in the ranges 80000-89999 and 270000 upwards are reserved for US Space Force analyst object TLEs.

These objects fall in several categories:

- Assorted TLEs: analyst catalog numbers with several TLE sets referring to several different objects in entirely different orbits. These numbers are apparently reused at will and do not refer to a single persistent object.
- Fake (Search) TLEs: TLEs which appear to be associated with prelaunch estimates of a known object rather than being based on actual tracking data.
- Poorly tracked objects, with only one or two TLE sets, and those from many years ago.
- Old, retired analyst objects: analyst catalog numbers with several TLEs in my archive, but none referring to recent epochs. In particular, a lot of objects in the 1994 and 1998 analyst datasets available to me don't appear in the modern (2020 onwards) TLE data releases. I have assigned them status OX (lost), but in many cases it's possible they have been moved to the main catalog with a new catalog number. I have identified a handful of cases like that, but haven't worked to make systematic cross-identifications.
- Persistent analyst objects: analyst catalog numbers for which the TLEs since 2018 clearly refer to one specific object (the orbit changes slowly) and which continue to get new updated TLEs in the past year or so.
- Space Fence objects: the objects with catalog numbers above 270000. All of these (with a handful of exceptions) appear to be persistent analyst objects.
- Unreleased analyst objects. The Space-Track.org 'Space Scoreboard' says that there are (as of Feb 2022) 17600 analyst objects, many more than data is being released for.

I.1.12.2 Objects in the CurrentCat

Only the ‘persistent analyst objects’ are really of interest, as real well-tracked objects which would be in the main catalog if they were associated with a known launch. As of Feb 2022 there are a little under 700 of these. This is just a few percent of the number of tracked debris objects in orbit, and a small number compared to the 17600 such objects reported to exist by 18SPCS.

All the analyst objects for which I have any data are included in the Complementary Catalog ‘csocat’. Use that data with care, since they include objects which are not necessarily real, and ones which have been reassigned with new numbers elsewhere.

The 700 robust ‘persistent analyst objects’ are now included at the end of the derived product ‘currentcat’ so that they can be used in statistical studies.

I.1.12.3 Tentative Identifications of Analyst Objects

I have attempted to identify these analyst objects.

- In some cases one can infer the parent launch with fairly high confidence - for example objects from the 1965 SNAPSHOT launch which have distinctive orbital parameters.
- In other cases one can only identify them as being from one of a handful of launches - there is a debris cloud at high inclination which is dominated by debris from three different Delta rocket stages that exploded in Dec 1973 (Delta 98), Aug 1975 (Delta 104), and Dec 1977 (Delta 126). You can be pretty sure that certain debris objects belong to one of those three launches, but you can’t tell which. For now I have arbitrarily picked one of the launches to assign to the objects but indicate the ambiguity in the object name.
- In still other cases, notably for LEO sun-synchronous objects and many Molniya orbit and geotransfer orbit objects, there are too many possible parent launches to make a specific identification. In these cases I do not assign an international designation and give the object a generic name like ”Unknown SSO debris”.

In future I hope to take a more rigorous approach by creating new designations for specific debris clouds.

I.1.13 Nomenclature codes (work in progress)

Satellites use a variety of nomenclature schemes and many satellites have multiple names. The GCAT object catalogs provide a primary post-launch name (‘Name’), a (often pre-launch) payload name (‘PLName’) and optionally a comma-delimited list of further alternate names.

For some purposes it is useful to flag which nomenclature scheme is being used for which name. In order to do this, GCAT introduces a ’nomenclature code’ used to tag specific names. This code is usually a one or two letter string, but I reserve the right to make the strings longer in future.

The NomCodes can in principle support use cases such as:

- Print only the manufacturer name
- List all satellites with an early NASA ’S-45A’ style designation
- Omit NRO mission names

However, that would require the NomCodes to be entered for all satellites. The user is warned that as of mid 2021, only a handful of satellites have NomCodes assigned. The intent is that NomCodes will be added as time goes on, but completion of that project is likely to take years.

I.1.13.1 NomCodes file

Valid nomenclature codes are listed in the (See NomCodes) file.

I.1.13.2 NomCodes in object catalog AltNames field

Nom codes are included as colon-delimited suffixes in the AltNames field. For example, the AltNames field might be

```
Zenit-6 No. 7L:RC,11F645 No. 76038-407:RB
```

This says the object has two alternate names:

```
1: Zenit-6 No. 7L
2: 11F645 No. 76038-407
```

The first one has nomenclature code RC, and the second one has nomenclature code RB. The RC code tells us that that name is a Soviet/Russian manufacturer name.

These NomCode suffixes are not currently supported in the Name and PLName fields, Instead, NomCode values for those fields may be listed at the beginning of the AltNames field, as for example:

```
:C,:RD,Zenit-6 No. 7L,11F645 No. 76038-407:RB
```

Parsing this string, we see that the first comma-delimited item is a NomCode (because it has a colon, which is treated as a special character) without a name prefixed to it. So, it is interpreted as a NomCode for the Name field. The second comma delimited item is also a NomCode with no name prefixed, so it is a NomCode for the PLName field. We then go into the regular list of AltNames. Note that in this example the first AltName doesn't have a NomCode. Some entries in an AltNames list may have a NomCode and others may not.

Correspondingly, if the first entry in the AltNames list has a non-empty name section, then there are no NomCodes defined for Name or PLName.

The catch is that there are two satellites which actually have colons in their names (Eu:CROPIS and RE:X xing). Colons may occur in the Name and PLName field, but are not allowed in names in the AltNames field. That's ugly, I know.

I.1.14 Launch Service Codes

The Launch Service codes are provided in the Groups column of the launch lists, for orbital launches only.

I apologize for the overloading of the Groups column with totally different meanings in the orbital and suborbital cases. This denormalization was done purely for reasons of compact formatting in my internal representation.

The launch service code encodes the type of launch service (govt., fully commercial etc.) and customer (govt./commercial). To be used for statistical analysis of commercial launch activity. The intent here is to capture some nuance around 'commercial launches' - is the money really coming from commercial activity or is it just more government space investment with a different contracting model?

The launch service code is of the form

```
LST
```

or

```
LST/CT
```

or

```
LST/CT+CT
```

where LST is the **launch service type** and CT is the **satellite customer type,** as listed below.

The LST codes (launch service types) are:

LST Code	Launch Service Type	Default CT
G	Government rocket	G
CG	Commercial rocket operated on behalf of govt.	G
CO	Commercially operated government-developed rocket	C
CX	Commercial rocket and payload but end customer is govt	C
C	Fully commercial rocket	C

The CT codes (satellite customer types) are

CT code	Customer type
G	Government (of the rocket operator's country)
OG	Other government (foreign to the rocket operator)
C	Commercial

We distinguish between the government of the rocket operator's country and other governments. For example, Thor Delta is a US rocket so if it carries a US govt payload that's CT = G, but if it carries a Canadian govt payload that's CT = OG. Special cases include ESA/Arianespace rockets, where ESA, the EU, and individual ESA member state governments all count as 'G'; for Rocket Lab both US and NZ count as 'G'.

If the CT is the default CT for that LST, it can be omitted. Up to two different CTs can apply to a different launch.

Example 1: G - Government rocket with govt payload

Example 2: CG/OG+C - Commercial rocket operated on behalf of govt, carrying payload(s) for another govt and commercial payload(s).

I.1.15 Launch Profile Codes

The launch profile codes are provided in the Category field of the launch lists, for orbital launches only.

This field encodes the target orbit type (LEO, GEO etc.), the upper stage(s) disposal mode, and the number of launch vehicle related debris objects generated during the launch phase (later stage breakups are not included). Note that the data in this field represent the intended result of the launch, not the actual result. It can be used to track the evolution of space debris mitigation practices used by launch agencies.

The format of the launch profile code is:

```
Sat XXX CC N
```

where XXX is the orbit code for the target orbit, CC encodes the planned upper stage(s) disposal mode, and N is the number of other debris objects planned to be left in orbit from the launch vehicle (not counting objects released by the payload, although there is some ambiguity in that).

The target orbit codes are:

Orbit code	Meaning
DSO	Deep space orbit (Earth orbit with apogee beyond 150,000 km)
EEO	Earth escape orbit
GEO	Direct geosync insertion
GTO	Geosync transfer orbit
HEO	Highly elliptical orbit (except MTO, MOL, DSO)
ISS	International Space Station
LEO	Low Earth Orbit (other than SSO, LSS, ISS)
LSS	LEO space station other than ISS
MEO	Medium Earth Orbit
MOL	Molniya orbit
MTO	MEO transfer orbit (with payload performing MEO circularization)
SSO	Sun-sync orbit
STO	Supersync transfer orbit (apogee more than 45000 km)
XO	Extraterrestrial launch (e.g. launch from lunar surface)

The next part of the launch profile code indicates what measures are taken to dispose of each upper stage which reaches orbit, or is close to reaching orbit. This section has one,two or three letters, depending on the number of upper stages reaching orbit.

Disposal codes are not included for extraterrestrial launches.

For example, OL means that one upper stage was left in orbit with no orbit change, and a second one was left in orbit with a perigee lowering burn carried out after payload deployment.

Disposal code	Meaning
A	Stage left in Earth orbit, but remains attached to payload by design.
B	Stage made depletion burn which boosted it to higher Earth orbit.
D	Actively deorbited to destructive reentry
E	Stage placed in Earth escape orbit
L	Small perigee lowering burn to reduce orbit lifetime (but not meeting criterion for P)
O	Left in Earth orbit for later uncontrolled reentry
P	Perigee lowered to 180 km or less for rapid decay, or stage left in orbit with that low a perigee to start with.
R	Recovered intact for possible reuse (so far, space shuttles only, considered as upper stages).
S	Stage left in marginally suborbital trajectory for targeted reentry on first orbit. Stages with perigees above -10

The S cases are typically ones involving disposing of a large core stage by leaving it slightly suborbital and making the payload or a small insertion stage complete the orbit insertion (for this purpose, the Shuttle External Tank is counted as a stage). This is a standard way of avoiding leaving a big stage with a non-restartable engine in low orbit, and is included to highlight this responsible strategy (and as a contrast to cases such as the CZ-5B).

Finally the number of other launch vehicle-related intentional debris objects is listed. Accidental debris, such as from upper stage breakups, is not included here. Typically the objects noted are tumble weights, multi-payload adapters such as Ariane Sylda5, or payload release hardware such as Starlink tension rods.

For example, 'Sat GTO SO 1' indicates that the launch was targeted for geotransfer orbit, that one stage was marginally suborbital and another was left in orbit for uncontrolled decay, and one additional debris object was left in orbit.

Part II

Space Organizations

Chapter II.1

The Space Organizations Catalog

II.1.1 Introduction

In catalogs, review papers and databases describing or tabulating artificial satellites, space launches and other astronautical events, it is often necessary or useful to report the country of origin, owner organization, and/or manufacturer of the object of interest. This can be problematic as there is no standard way to refer to a particular organization. Organizations or parts of organizations are frequently sold, merge, or otherwise change their names, potentially concealing continuity in design of their spacecraft.

For my purposes, an 'organization' can be any named and spacetime-localized entity including

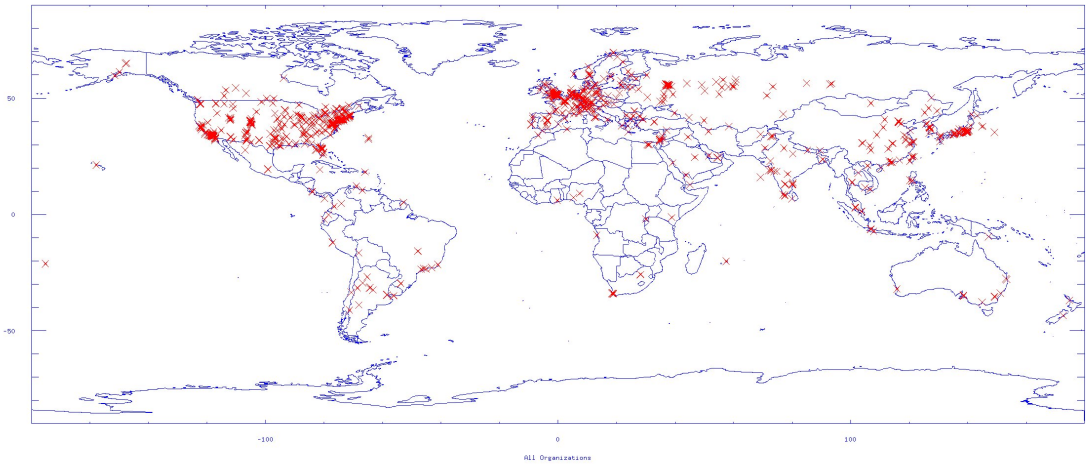
- A world or a region on a world - an 'astronomical polity' (AP)
- A country (nation-state) or autonomous political region (CY)
- An intergovernmental or supranational organization, used as if it were a country (IGO)
- An academic (A) or non-profit organization
- A business (B) entity, a corporation, company, or operating location thereof
- A civilian (C) or military/defense (D) government agency, base, or group

In this paper I present a scheme - the 'Org Code' - for referring to space organizations and a database of such organizations. The scheme and associated (See database) were developed to address this problem for the General Catalog of Artifical Space Objects (GCASO, McDowell 2020 in prep.), but I hope it will be found generally useful as no other comparable public dataset exists.

The organizations database generally includes only owner/operator and prime contractors for already-launched spacecraft, stages, stage main propulsion engines, etc., not subsystem level contractors, data analysis organizations, nor (with some exceptions) organizations involved only in missions whose launch is not yet imminent.

Although most documents describe satellite ownership and manufacture at the level of a headquarters parent agency or corporation (NASA, Boeing, Roskosmos, JAXA), I find it more illuminating to follow events at the level of a single operating location - an agency center like NASA-Goddard, or a factory/design organization like McDonnell Douglas/Huntingdon Beach (now Boeing). I assign a short alphanumeric code, the Org Code, to each such operating location.

Below: map showing geographic distribution of all organizations in the database (click for larger version)



II.1.2 The Org Code

II.1.2.1 Allowed characters

The GCASO Org Code scheme presented here uses a unique string of 1 to 8 characters to refer to an organization. Allowed characters are the digits 0-9, the ASCII upper case letters A to Z, and the dash (minus-sign). Some examples of the Org Code are: I-ESRO, SWRIB, B, 44FA2, IQ223, NASA.

II.1.2.2 Code and UCode: Organization phases

We want to track the time evolution of an organization as it changes outward identity at the same location. Each change marks the start of a new 'phase' which gets a new **Org Code,** but also has an associated " **UCode** " (unified code) which is the same for all of the phases (and is usually, but not necessarily, the Org Code of the first phase). Note that each UCode is itself an Org Code.

For example, let us consider the Palo Alto, California location of Ford Aerospace. I assign this the UCode FORDA, with a series of phases:

Code	UCode	Name	Dates
PHLP	FORDA	Philco Western Development Labs (WDL)	1957-1966
PHFP	FORDA	Philco-Ford WDL	1966-1975
FORDP	FORDA	Aeronutronic Ford, WDL	1975 - 1976 Dec
FORDA	FORDA	Ford Aerospace/Palo Alto	1976 Dec - 1990 Oct
LOR	FORD	Space Systems Loral	1990 Oct - 2012 Nov
SSL	FORDA	MDA-SSL	2012 Nov - 2017 Oct
SSLMAX	FORDA	Maxar SSL	2017 Oct -2019 Mar
MAXSS	FORDA	Maxar Space Solutions	2019 Mar - present

In the organization database each code is paired with a UCode, so that all the codes with a common UCode can be identified. This allows us to understand that there is a historical connection between satellites built by SSL and those whose manufacturer was PHFP.

So, all the 1300 series communications satellites were built by (Ucode) FORDA, but each one can also be tagged with the specific name of the company as it existed at the time of the satellite's launch.

Note that countries can have phases too - the Czech republic is CSSR (1940-1990), CSFR (1990-1993) and CZ (1993-present), sharing the ucode CZ. Note that for countries extant in the early 21st century, the ucode is usually the Internet TLD, e.g. CN like .cn for Zhongguo (China), although the usual single-letter abbreviations have been

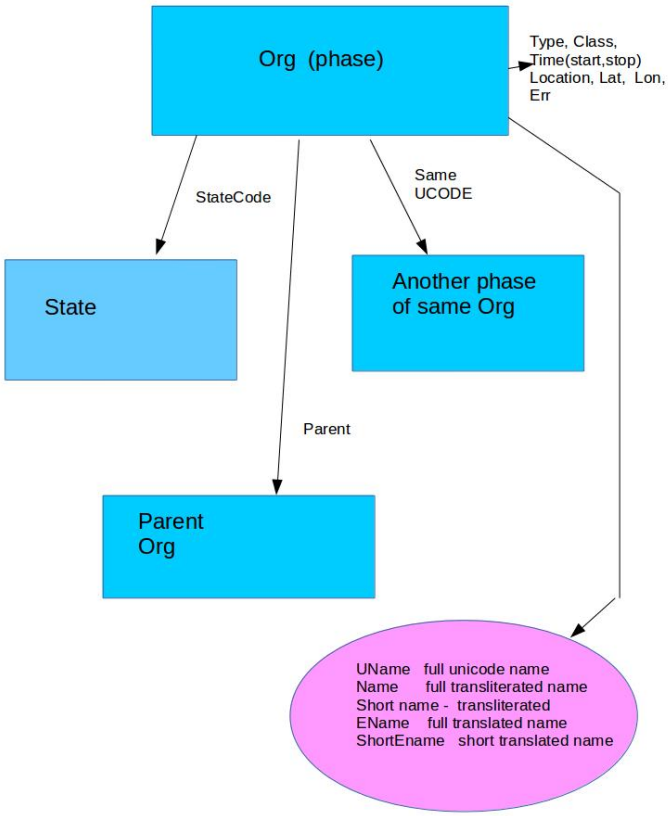
used for European Union countries e.g. D for Deutschland (Germany), F for France etc. Most two-letter ucodes are countries but there are a few exceptions (LM for Lockheed Martin, for example).

II.1.3 The Database

The database consists of a single (See table) in which each record is an organizational phase with its Org Code. The columns are:

Column Name	Description
Code	Org Code for organization in a particular phase (time period)
UCode	'unified' Org Code for organization across all time periods
StateCode	OrgCode for organzation's host state.
Type	Organization roles: a slash-separated set of types.
Class	Organization class: A, B, C, or D (Nonprofit, commercial, civil or defence)
TStart	Calendar date of phase start - e.g. when the org was founded
TStop	Calendar date of phase end - e.g. when the org was closed or renamed
ShortName	Short name of organization (ASCII, host language)
Name	Full name of organization (ASCII, host language)
Location	Approximate location (e.g. city)
Longitude	Longitude of location, deg E
Latitude	Latitude of location, deg N
Error	Error in lon/lat, deg
Parent	OrgCode of organization of which this org is a part
ShortEName	Short name of organization (ASCII, English)
EName	Full name of organization (ASCII, English)
UName	Full name of organization (Unicode, host language)

The way these columns are used is explained in more detail in the following subsection. First I present a diagram illustrating how the database entries relate the different organizations to one another:



II.1.3.1 Column details

- **Code - the Org Code for this organization/time phase.**
- **UCode - the unified Org Code for all phases for this organization.**
- **StateCode - Org Code for the nation-state, IGO or other polity** with responsibility for the organization. This is normally the country in which the organization is located (referred to as 'host country' in the remainder of this document). Type of the state code must be CY, IGO or AP.
- **Type - the organization type**

  This indicates the role of the organization, e.g. a payload operator, a launch agency, etc. The current database is somewhat patchy in data quality for this field, and I do not recommend relying on data in this column with the exception of the special values CY, IGO and AP which indicate entries with a status equivalent to a nation-state.

  An entry can have multiple values of Type which are separated by a slash character, e.g. LV/E indicating the organization has both LV and E roles. Alternativley, an entry may have no Type value present at all.

  Additional roles are reserved for the related Launch Sites database and are noted in the table below.

  The full list of roles is:

Type code	Meaning
States and similar entities	
CY	Country (i.e. nation-state or autonomous region). Not always the same as the ISO3166 code even when the latter exists.
CYP	Country province. Part of a nation-state or autonomous region.
IGO	Intergovernmental organization. Treated as equivalent to a country for the purposes of tabulations of launches by country etc.
AP	Astronomical Polity: e.g. Luna, Mars. Used for the 'country' field for locations that are not on Earth and therefore don't have a country.
Manufacturers	
E	Engine manufacturer
LV	Launch vehicle manufacturer
W	Meteorological rocket launch agency or manufacturer
PL	Payload manufacturer
Operators	
LA	Launch Agency
S	Suborbital payload operator
O	Payload owner
P	Parent organization of another entry
Launch origin or destination	
LS	Launch site
LP	Launch position
LC	Launch cruise
LZ	Launch zone
TGT	Suborbital target area

- **Class - the organization class.**

  Each organization is tagged as one of:

  - A (Academic, amateur and non-profit)
  - B (Business/commercial)
  - C (Civil government)
  - D (Defense/military/intelligence)

  The same classes are used in the satellite payload database to mark indvidual satellites - usually the class of the satellite is the same as the class of the owner organization, but not always.

- **TStart and TStop** - start and stop time of this organization phase. Given in year, month, day format (actually Vague Date format.)

  Null values are indicated by a dash. Null TStart means the start date of the organization is unknown; Null Stop means that the organization is still in operation, or assumed to be so.

- **ShortName** - a short ASCII name of the organization suitable for use in labels or tables, nominally a transliterated representation of the name in the host country's own language (or one of its principal languages, as appropriate).

- **Name** - a full name (up to 80 ASCII characters). Transliterated full name of the organization, in host country's language.

- **Location** - City and locality of the organization. In many cases this is given in the form UrbanArea-Suburb, e.g ”Los Angeles-El Segundo”. The precise address is not currently included in the database, although admittedly this would have been desirable.

- **Longitude, Latitude, Error.** - The values are geographic longitude (east-positive) and latitude in decimal degrees.

  For the Organizations database the error field is not filled but is usually 0.1 deg.

- **Parent,** when nonempty, provides an Org Code of the organization of which the current entry is a subset. Thus, NASA is the parent of Goddard Space Flight Center.

  Note that in a few cases, an Org is noted as having more than one parent (two Org Codes separated by a solidus, e.g. MOTI/TMI). In these cases the Org is an equal joint venture of the two parents. However in practice in my software I ignore the second parent.

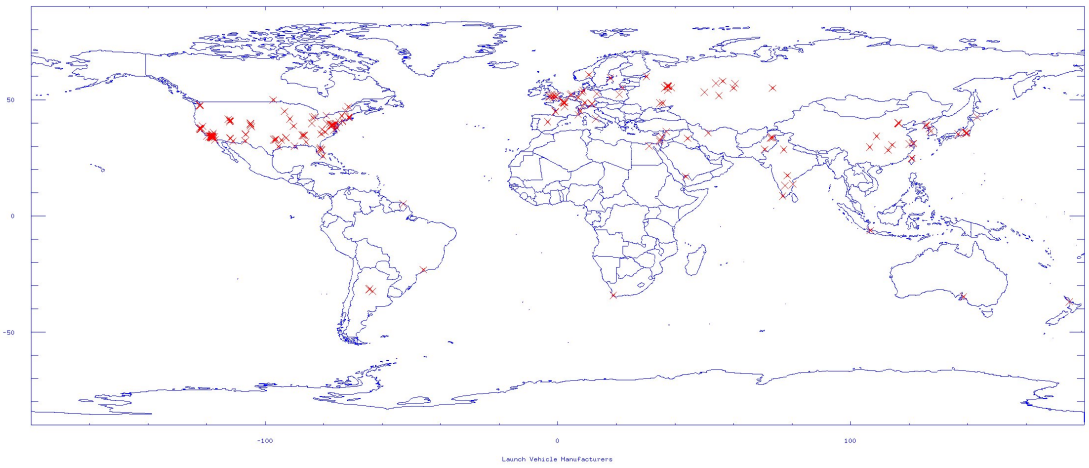
- **ShortEName** - Short name in English. Useful for summary information. Can be omitted when ShortName is itself English.

- **Ename** - Long (full) name in English.

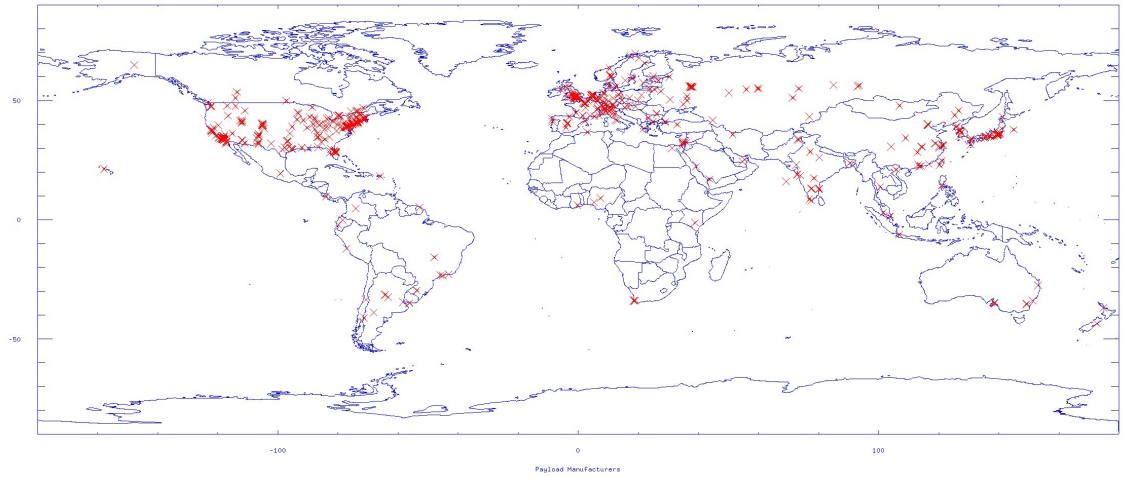
- **UName** - Unicode version of full name in organization’s parent language.

We can use the mask field to look at the geographic distribution of various types of organization:

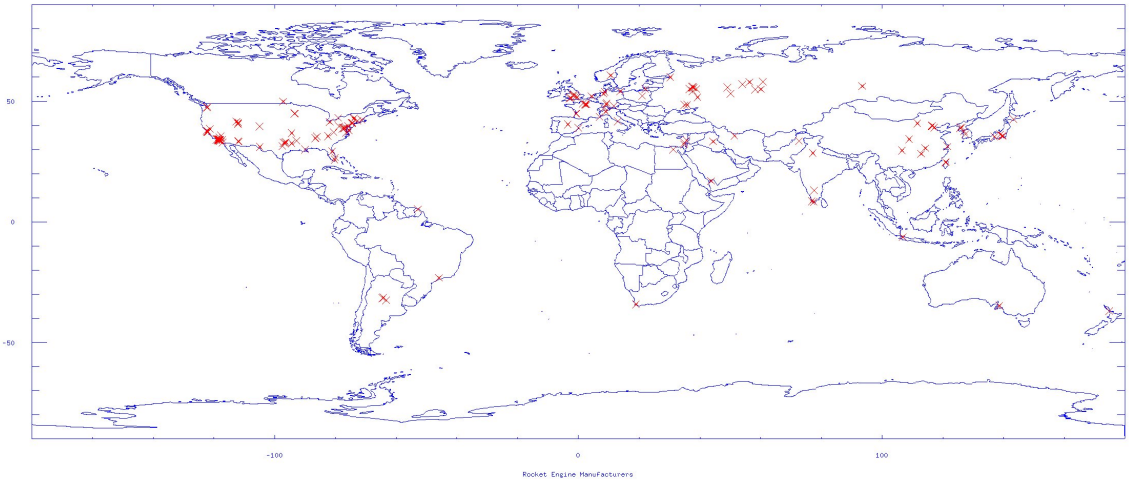
Launch vehicle and stage prime contractors:



Payload manufacturers:



Engine manufacturers:



II.1.3.2 Sources

For contemporary satellites and rockets, organizations were largely identified from mission press kits and web sites. For historical missions, archival sources, Aviation Week, Flight International, and Jane's All the World's Aircraft (and Jane's Spaceflight Directory) were useful.

(See Note: Vague Date Format)

Part III

Launch Sites

Chapter III.1

The Space Launch Origins Catalog

III.1.1 Introduction

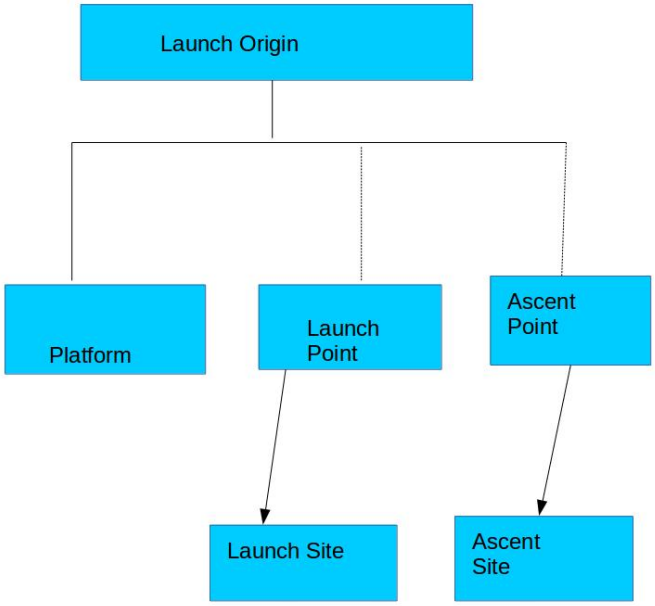
III.1.1.1 Launch Origin

Each rocket launch in the General Catalog has an associated **launch origin.** The 'launch origin' generalizes the concept of a launch site, because nothing is ever simple. It consists of:

- the **Platform** (optional): either a ship or an airplane from which the rocket is launched. (The platforms are discussed in detail in a separate section.
- the **Launch Pad** or **Launch Point** (LP for short, unifying the two terms) where the rocket ignition occurs; LPs are always associated with
- a **Launch Site** which groups together related LPs.

  However, for an air launch, we consider **two** Launch Site/LP pairs: the location of the departure runway where the aircraft takes off, and the location where the rocket drops from the plane and ignites. This latter pair we call:

- the **Ascent Site** and
- the **Ascent Point.** For other launches we consider the Ascent Site and Ascent Point to be identical with the Launch Site and Launch Point. (Ideally, for sea launches one would track the ship port departure point and distinguish it from the launch itself in the same way, but usually that information is not known).



If the Platform is a ship on a research cruise and the launch point is not a regular (reused) point, the Launch Site (and the Ascent Site) is the expedition code. Ascent Points for airplanes and ships near an existing launch site and under its range authority, may be grouped together either under that launch site or a special related ocean-specific launch site. For example, we distinguish between the Cape Canaveral land-based pads at site CC and the air and sea launches off the Cape coast at site ETR (Eastern Test Range); this makes the LPs for site CC geographically compact, which can be helpful for display.

Associated with each Launch (or Ascent) Site is an implicit LP with the same name as the Site, for launches where we know the Site but not the particular pad.

The association of LPs with Sites is usually obvious for the land based pads at major launch sites. However for remaining LPs it is somewhat arbitrary and I have not been terribly consistent.

III.1.1.2 Launch Sites database

The information needed to describe the existence, time-dependent nomenclature, and location of a launch site and its launch pads is similar to that needed for an organization. The database has two files, one for the Sites and one for the individual LPs. The format is almost the same for each file.

- **Site** contains the org code for the launch site.
- **Code** LP file: contains the org code for the LP; Sites file: is blank, since the Site is the org code.
- **UCode** Unified org code for the entry. The Code and UCode are not globally unique for launch pads, but are unique when combined with their Site values.

For example White Sands Army Launch Area 2 has LP entries with org code values ALA2 (1958-1960) and LC36 (1960-). Each LP entry has UCode ALA2 and Site value WS. The Site value corresponds to an LS entry which also has Site value WS, tying the launch pad to its launch site.

As another example, the LP org code value LC2 is not unique; Site code PF and Site code CC each have an LP with org code LC2. Internally in software searches are made by concatenating the Site and LP codes, e.g. ”CC LC2”.

In other respects the Sites and LP databases are identical in structure with the Orgs one.
The Sites records are:

- **Site -** the Org Code for this launch site (or, for this time phase of this launch site, if it has multiple phases - i.e. changed its name).
- **Code -** a blank entry (for back compatibility).
- **UCode -** the unified Org Code for all phases for this launch site.
- **Type -** the launch site type (LS, LC, LZ).

  There are three types of Site:

  – the **Launch Zone (LZ),** a geographically more or less compact zone grouping air and/or sea LPs;
  – the **Launch Cruise (LC),** a temporally compact but geographically extended zone (possibly over multiple oceans) representing a research cruise expedition with multiple sea LPs;
  – the **Launch Site (LS),** for everything else, i.e. land based launch sites.

  Additional reserved site types for future use are

  – **LNZ** - Landing zone
  – **TGT** - Target impact location, e.g. for missiles

- **StateCode - Org Code for the nation-state, IGO or other polity** with responsibility for the launch site. This is normally the country in which the site is located. Type of the state code must be CY, IGO or AP, and the code must occur in the Organizations Database.
- **TStart and TStop** - start and stop time of this launch site phase. Given in year, month, day format (actually Vague Date format.)

  Null values are indicated by a dash or an asterisk. Null TStart means the start date of the organization is unknown; Null Stop means that the organization is still in operation, or assumed to be so.

- **ShortName** - a short ASCII name of the site suitable for use in labels or tables, nominally a transliterated representation of the name in the host country’s own language
- **Name** - a full name (up to 80 ASCII characters). Transliterated full name of the launch site, in host country’s language. Where known, this is the formal name of the launch site.
- **Location** - City and locality of the launch site. In many cases this is given in the form UrbanArea-Suburb, e.g ”Los Angeles-El Segundo”.
- **Longitude, Latitude, Error.** - The values are geographic longitude (east-positive) and latitude in decimal degrees.

  The error field gives the uncertainty of the launch site location. Note that when a launch site contains multiple launch pads or launch points, the position given for the site is a bit arbitrary, and you should consult the LP (launch points) database for precise positions.

- **Parent,** when nonempty, provides an Org Code of the organization operating the launch site.
- **ShortEName** - Short name in English. Useful for summary information. Can be omitted when ShortName is itself English.

- **Ename** - Long (full) name in English.
- **Group** - At present, this field is used to group together ocean launch sites, lunar sites, and some unknown V2 launch areas. The field is likely to be repurposed in future releases.
- **UName** - Unicode version of full name in organization's parent language.

III.1.1.3 Launch Points database

The Launch Points records are:

- **Site -** the Org UCode for the launch site of which this LP is a part. Every LP is part of a Launch Site.
- **Code -** an Org code for this LP (or for this phase of this LP, for LPs with multiple time phases).
- **UCode -** the unified Org Code for all phases for this LP.
- **Type -** the launch point type is always LP
- **StateCode -** this field is blank for LPs in the current release; the LP is considered to inherit the StateCode of its Launch Site.
- **TStart and TStop** - start and stop time of this phase. Given in year, month, day format (actually Vague Date format.)

  Null values are indicated by a dash or an asterisk. Null TStart means the start date of the organization is unknown; Null Stop means that the organization is still in operation, or assumed to be so.
- **ShortName** - a short ASCII name of the site suitable for use in labels or tables. often a concatenation of the Site and LP codes.
- **Name** - a full name (up to 80 ASCII characters). Transliterated full name of the launch point, in host country's language.
- **Location** - City and locality of the launch point. In many cases this is given in the form UrbanArea-Suburb, e.g "Los Angeles-El Segundo".
- **Longitude, Latitude, Error.** - The values are geographic longitude (east-positive) and latitude in decimal degrees.

  The error field gives the uncertainty of the launch point location. In contrast to the Organizations database, I have attempted to find as accurate positions as possible for the LP values.
- **Parent,** when nonempty, provides an Org Code of the organization operating the launch site.
- **ShortEName** - Reserved for short name in English. Not used in the current release but retained for compatibility with the Orgs database format.
- **Ename** - Reserved for long name in English. Not used in the current release but retained for compatibility with the Orgs database format.
- **UName** - Unicode version of full name in organization's parent language. Not currently supplied for the LP database, but I might fill it in in a future release.

Part IV

Launch Platforms

Chapter IV.1

Platforms

IV.1.1 Platform data structure

Some space launches are carried out from mobile structures which don't have a fixed geographical location. I thus distinguish between the 'platform' (the vehicle used as a launch platform) and the 'site' (the geographical location at which the platform was located when the rocket separated from it).

Platforms which have been used to launch rockets include surface ships, submarines and aircraft. (I also include the KSC pad 39 mobile launch platforms, just because I want to record which one was used for which launch and it's a useful database field to stash that particular information.)

I consider ship launches to fall into two main categories: individual launches from launch zones (LZ) and launches on cruises (LC). In a cruise, a specific ship launches a series of rockets at different (sometimes widely different) geographical locations (launch points). Conceptually I think of the cruise path as a launch site and the launch points as different launch pads in that site. However, some launch points were used many times by different ships and cruises. These frequently used launch locations (e.g. OJP, in the Pacific at 160E 0N) are instead defined as a launch zone. Therefore, a cruise can consist of launches associated with the cruise's own site (LC) value and also with one or more standard LZs. For example, the Akademik Korolev (KORO) made a cruise in Feb-Mar 1973 (cruise GMS73A) which had launches from launch points LP1 to LP8 associated with site value GMS73A as well as launches from frequently-visited Indian Ocean sites IO65, IOCOR, RODR, IOSWR and IO6540. I recognize that this is a bit messy but I think making explicit that these sites are used by multiple ships and cruises is helpful.

The fields in the Platforms data file are

- **Code: an Org Code for the platform (or for this time phase of the platform; alt** phases for any platform in the current list, except for the LC39 mobile launch platforms)
- **UCode: Unified Org Code for the platform. Usually the same as the Code field.**
- **StateCode: Org code for the country owning the platform.**
- **Type: Type of platform. Types are PLAT (generic platform)** SHIP, SUB, and AIR (with obvious meanings).
- **Class:** What kind of organization owns the platform (A,B,C, D as per the Orgs database. Most often D here, as most platforms until recently were owned by the military).
- **TStart and TStop** - start and stop time of this launch site phase. Given in year, month, day format (actually Vague Date format.)

  Null values are indicated by a dash or an asterisk. Null TStart means the start date of the organization is unknown; Null Stop means that the organization is still in operation, or assumed to be so.
- **ShortName** - a short ASCII name of the site suitable for use in labels or tables, nominally a transliterated representation of the name in the host country's own language

- **Name** - a full name (up to 80 ASCII characters). Transliterated full name of the launch site, in host country's language. Where known, this is the formal name of the launch site.
- **Location** - City and locality of the launch site. In many cases this is given in the form UrbanArea-Suburb, e.g "Los Angeles-El Segundo".
- **Longitude, Latitude, Error.** - The values are geographic longitude (east-positive) and latitude in decimal degrees.

  The error field gives the uncertainty of the launch site location. Note that when a launch site contains multiple launch pads or launch points, the position given for the site is a bit arbitrary, and you should consult the LP (launch points) database for precise positions.
- **Parent,** when nonempty, provides an Org Code of the organization operating the launch site.
- **ShortEName** - Short name in English. Useful for summary information. Can be omitted when ShortName is itself English.
- **Ename** - Long (full) name in English.
- **VClass** - vehicle class, used mainly to describe ship class.
- **VClassID** - identification serial within vehicle class
- **VID** - another field for identification serial for the platform, e.g. IMO number for ships, where applicable.
- **Group** Used to group together platforms in the later subsections of this document.
- **UName** - Unicode version of full name in organization's parent language.

IV.1.2 Catalog of platforms

IV.1.3 Soviet Oceanographic Vessels

Updated: 2025 Jul 16 0237:12

Soviet Oceanographic Vessels

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
Пассат	Passat		PASSAT	GOIG	Passat	V88-I/1	IMO6904167	1968 - 2008
Муссон	Musson		MUSSON	GOIG	Passat	V88-I/2	IMO6904155	1968 - -
Волна	Volna		VOLNA	DVNG	Passat	V88-I/3	IMO6914203	1968 - -
Прилив	Priliv		PRILIV	DVNG	Passat	V88-I/4	IMO6916574	1969 - -
Виктор Бугаев	Viktor Bugaev		BUGAEV	GOIG	Poryv	V88-III/7	IMO7048427	1980 - 1990
Георгий Ушаков	Georgiy Ushakov		USHAKOV	GOIG	Poryv	V88-III/8	IMO7117371	1971 - -
Эрнст Кренкель	Ernst Krenkel'		KREN	GOIG	Poryv	V88-III/9	IMO7205685	1971 - -
Ю. М. Шокальский	Yu. M. Shokal'skiy		SHOK	DVNG	224 A.I. Voeykov	-	IMO5396600	1959 - 1980
А.И. Воейков	A. I. Voeykov		VOKV	DVNG	224 A.I. Voeykov	-	IMO5010244	1959 - 1989
Академик Ширшов	Akademik Shirshov		SHIR	DVNG	416 Ak. Kurchatov	-	IMO6712552	1968 - 1991
Профессор Визе	Professor Vize		VIZE	AANII	416 Ak. Kurchatov	-	IMO6707674	1968 - 1999
Профессор Зубов	Professor Zubov		ZUB	AANII	416 Ak. Kurchatov	-	IMO6718764	1969 - 1991

Soviet Oceanographic Vessels

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
Академик Королёв	Akademik Korolev		KORO	GOIG	416 Ak. Kurchatov	-	IMO6707301	1970 - 1996

IV.1.3.1 Passat

Пассат

Credit: Photo from wrk.ru forums, file ”Passat (V88) 2016-11-23.pdf”.

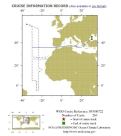
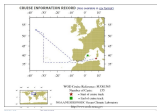
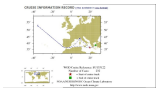
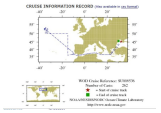
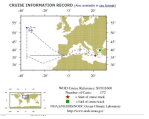
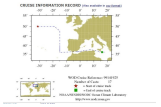
The Passat launches are unusual in that they were almost all from the same location, 53N 35W, where Passat remained during its research.

Note: Cruise data for SU012423 puts Passat at the usual 53N 35W location on 1989 Jan 31. I therefore assume that PASS89A was also at that location for 1989 Feb 1-22. Similarly, SU012425 puts Passat at that location on 1989 Apr 25, 1 week before the start of PASS89B. PASS90B starts a few days after SU111251 but that cruise was more dynamic in location so it’s less clear what one can infer.

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: PASSAT

LC_Code	Active	Region	Cruise	CruiseMap
GMS80A	1980 Feb 1 - 1980 Mar 15	Minia, Atlantic Ocean	Passat Expedition 1, 1980 (SU000722)	
GMS82H	1982 Feb 1 - 1982 Mar 1	Minia, Atlantic Ocean	Passat Expedition 2, 1982 (SU001365)	
GMS82J	1982 May 1 - 1982 May 31	Minia, Atlantic Ocean	Passat Expedition 3, 1982	-
GMS86G	1986 Feb 1 - 1986 Mar 15	Minia, Atlantic Ocean	Passat Expedition 4, 1986 (SU153122)	
GMS88H	1988 Mar 15 - 1988 Apr 15	Minia, Atlantic Ocean	Passat Expedition 5, 1988 (SU008536)	
GMS88J	1988 Nov 1 - 1988 Nov 30	Minia, Atlantic Ocean	Passat Expedition 6, 1988 (SU011600)	
GMS89G	1989 Feb 1 - 1989 Feb 28	Minia, Atlantic Ocean	Passat Expedition 7, 1989	-
GMS89H	1989 May 1 - 1989 May 31	Minia, Atlantic Ocean	Passat Expedition 8, 1989	-
GMS90B	1990 Jan 1 - 1990 Feb 1	Minia, Atlantic Ocean	Passat Expedition 9, 1990 (99141925)	
GMS90E	1990 Nov 1 - 1990 Nov 15	Atlantic Ocean	Passat Expedition 10, 1990	-

Updated: 2025 Jul 16 0237:13

Launches: PASSAT

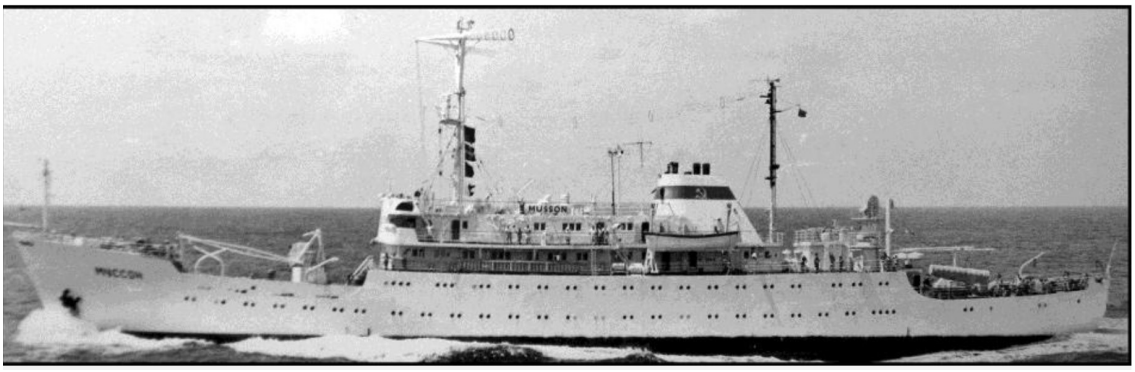
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980 Feb 06 0700:00	MMR-06	-	-	PASSAT	Passat	GMS80A	LP1	-	-	35.0W 53.0N (+/- 1.0)	56.0
1980 Feb 15 0830:00	MMR-06	-	-	PASSAT	Passat	GMS80A	LP1	-	-	35.0W 53.0N (+/- 1.0)	60.0
1980 Feb 20 0800:00	MMR-06	-	-	PASSAT	Passat	GMS80A	LP1	-	-	35.0W 53.0N (+/- 1.0)	59.0
1980 Feb 27 0800:00	MMR-06	-	-	PASSAT	Passat	GMS80A	LP1	-	-	35.0W 53.0N (+/- 1.0)	52.0
1980 Feb 29 0730:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Feb 29 0900:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Mar 03 0400:00	MMR-06	-	-	PASSAT	Passat	GMS80A	LP1	-	-	35.0W 53.0N (+/- 1.0)	57.0
1982 Feb 12 0730:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 Feb 17 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1982 Feb 19 0900:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1982 Feb 21 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Feb 22 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Feb 24 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Feb 26 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Feb 28 0850:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1982 May 03 0600:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1982 May 05 0600:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1982 May 07 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 May 10 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	55.0
1982 May 12 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 May 14 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1982 May 17 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 May 21 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 May 24 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 May 26 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1986 Feb 12 0723:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1986 Feb 14 0842:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1986 Feb 17 0703:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1986 Feb 19 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1986 Feb 21 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1986 Feb 26 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1986 Feb 28 0710:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1986 Mar 03 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1986 Mar 05 0702:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1986 Mar 07 0718:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	55.0
1988 Mar 18 0742:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1988 Mar 23 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Mar 25 0716:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1988 Mar 30 0609:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Apr 01 0648:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Apr 04 0603:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Apr 06 0605:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Apr 13 0702:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1988 Nov 02 0707:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Nov 09 0707:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1988 Nov 11 0703:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Nov 14 0700:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Nov 16 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Nov 18 0702:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Nov 23 0716:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1988 Nov 28 0705:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1989 Feb 01 0722:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	53.0
1989 Feb 03 0709:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1989 Feb 05 0706:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Feb 08 0704:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0

Launches: PASSAT

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Feb 12 0704:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Feb 17 0703:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	67.0
1989 Feb 22 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 May 03 0715:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1989 May 10 0711:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1989 May 12 0703:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 May 17 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1989 May 19 0701:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 May 24 0715:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1989 May 26 0703:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1990 Jan 03 0815:00	MMR-06	-	-	PASSAT	Passat	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1990 Jan 05 0710:00	MMR-06	-	-	PASSAT	Passat	GMS90B	LP2	-	-	35.0W 53.0N (+/- 1.0)	65.0
1990 Jan 08 0729:00	MMR-06	-	-	PASSAT	Passat	GMS90B	LP3	-	-	35.0W 53.0N (+/- 1.0)	60.0
1990 Jan 12 0824:00	MMR-06	-	-	PASSAT	Passat	GMS90B	LP4	-	-	35.0W 53.0N (+/- 1.0)	61.0
1990 Jan 29 0739:00	MMR-06	-	-	PASSAT	Passat	GMS90B	LP5	-	-	35.0W 53.0N (+/- 1.0)	60.0
1990 Jan 31 0708:00	MMR-06	-	-	PASSAT	Passat	GMS90B	LP6	-	-	35.0W 53.0N (+/- 1.0)	60.0
1990 Nov 02 0801:00	MMR-06	-	-	PASSAT	Passat	GMS90E	LP1	-	-	47.0W 43.0N (+/- 5.0)	63.0
1990 Nov 05 0814:00	MMR-06	-	-	PASSAT	Passat	GMS90E	-	-	-	47.0W 43.0N (+/- 5.0)	64.0
1990 Nov 07 0726:00	MMR-06	-	-	PASSAT	Passat	GMS90E	-	-	-	47.0W 43.0N (+/- 5.0)	64.0

IV.1.3.2 Musson

Муссон



Credit: Photo from wrk.ru forums, file ”Passat (V88) 2016-11-23.pdf”.

Credit: -

Note: The cruise maps from NOAA often cover longer periods than the active period of rocket launching - e.g. the Jan 1982 expedition is part of a cruise from Nov 1981 to Apr 1982 which goes back and forward across the ocean, but during the 29 day period of MMR-06 launches the ship was roughly stationary at the MINIA location.

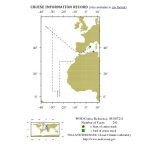
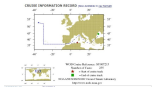
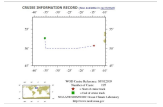
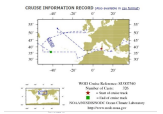
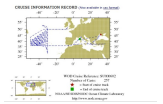
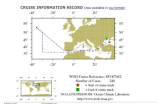
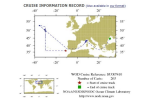
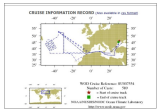
Note: The WDC-A/RS database gives positions for Musson’s Expedition 5 at 53N 35E, in the middle of the Russian countryside - unlikely for a ship. I assume this is a mistake for its usual position at 53N 35W.

Location of Musson on both 1989 May 31 (end of cruise SU012426) and 1989 Jul 1 (beginning of SU012114) was at the MINIA location, so for Expedition 13 during the intervening month I assume it remained there.

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: MUSSON

LC_Code	Active	Region	Cruise	CruiseMap
GMS77P	1977 Dec 1 - 1977 Dec 31	Minia, Atlantic Ocean	Musson Expedition 1, 1977 (SU000630)	
GMS78F	1978 Mar 15 - 1978 Apr 30	Minia, Atlantic Ocean	Musson Expedition 2, 1978 (SU007211)	
GMS78J	1978 Nov 1 - 1978 Nov 30	Minia, Atlantic Ocean	Musson Expedition 3, 1978 (SU007213)	
GMS79E	1979 May 15 - 1979 Jun 30	Minia, Atlantic Ocean	Musson Expedition 5, 1979	-
GMS79R	1979 Feb 1 - 1979 Mar 1	Minia, Atlantic Ocean	Musson Expedition 4, 1979	-
GMS81H	1981 Sep 1 - 1981 Oct 15	Minia, Atlantic Ocean	Musson Expedition 6, 1981 (SU012109)	
GMS82C	1982 Apr 1 - 1982 May 15	Minia, Atlantic Ocean	Musson Expedition 8, 1982 (SU007540)	
GMS82G	1982 Jan 1 - 1982 Jan 31	Minia, Atlantic Ocean	Musson Expedition 7, 1982 (SU000602)	
GMS83F	1983 May 1 - 1983 May 31	Minia, Atlantic Ocean	Musson Expedition 9, 1983 (SU007042)	
GMS83G	1983 Aug 1 - 1983 Aug 31	Minia, Atlantic Ocean	Musson Expedition 10, 1983 (SU007042)	
GMS85E	1985 Oct 15 - 1985 Nov 30	Minia, Atlantic Ocean	Musson Expedition 11, 1985 (SU007410)	
GMS87M	1987 Jul 1 - 1987 Jul 31	Minia, Atlantic Ocean	Musson Expedition 12, 1987 (SU007554)	
GMS89F	1989 Jun 1 - 1989 Jun 30	Minia, Atlantic Ocean	Musson Expedition 13, 1989	-

Updated: 2025 Jul 16 0237:13

Launches: MUSSON

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1977 Dec 02 0200:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	66.0
1977 Dec 07 0200:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1977 Dec 14 0200:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1977 Dec 21 0200:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	66.0
1977 Dec 28 0300:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Mar 17 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Mar 17 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1978 Mar 29 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1978 Mar 29 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1978 Mar 31 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1978 Apr 09 0700:00	MMR-06	-	-	MUSSON	Musson	GMS78F	LP1	-	-	35.0W 53.0N (+/- 1.0)	61.0
1978 Apr 12 0700:00	MMR-06	-	-	MUSSON	Musson	GMS78F	LP2	-	-	35.0W 53.0N (+/- 1.0)	59.0
1978 Apr 12 0800:00	MMR-06	-	-	MUSSON	Musson	GMS78F	LP2	-	-	35.0W 53.0N (+/- 1.0)	60.0
1978 Apr 15 0800:00	MMR-06	-	-	MUSSON	Musson	GMS78F	LP3	-	-	35.0W 53.0N (+/- 1.0)	58.0
1978 Nov 01 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Nov 03 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Nov 08 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1978 Nov 10 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1978 Nov 15 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1978 Nov 17 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Feb 02 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1979 Feb 07 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1979 Feb 09 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1979 Feb 14 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Feb 28 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1979 May 27 0800:00	MMR-06	-	-	MUSSON	Musson	GMS79E	LP1	-	-	35.0W 53.0N (+/- 1.0)	58.0
1979 Jun 01 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jun 06 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jun 08 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jun 13 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1979 Jun 15 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jun 20 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Jun 22 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jun 27 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1981 Sep 04 0900:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Sep 09 0900:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Sep 11 0740:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Sep 16 0900:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Sep 25 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1981 Sep 30 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Oct 02 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Oct 07 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Jan 01 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 Jan 06 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Jan 08 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Jan 13 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Jan 15 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Jan 22 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Jan 27 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1982 Jan 29 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Apr 07 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Apr 09 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Apr 16 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Apr 21 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Apr 23 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0

Launches: MUSSON

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Apr 30 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 May 03 0700:00	MMR-06	-	-	MUSSON	Musson	GMS82C	LP1	-	-	35.0W 53.0N (+/- 1.0)	59.0
1983 May 04 0710:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 May 06 0720:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 May 11 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 May 13 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 May 16 0810:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 May 18 0700:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 May 20 0740:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 May 25 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1983 May 27 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 Aug 03 0750:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1983 Aug 05 0740:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 Aug 10 0720:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1983 Aug 12 0740:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1983 Aug 18 0803:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 Aug 24 0706:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Aug 26 0723:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Aug 29 0704:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1985 Oct 28 0741:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Oct 30 0721:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Nov 01 0729:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1985 Nov 06 0709:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1985 Nov 13 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1985 Nov 20 0800:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Nov 22 0730:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jul 08 0847:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jul 10 0806:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1987 Jul 12 0741:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jul 17 0715:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jul 19 0723:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1987 Jul 22 0736:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1987 Jul 24 0747:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1987 Jul 26 0727:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jul 29 0706:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Jun 02 0703:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1989 Jun 04 0702:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Jun 07 0708:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Jun 09 0705:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1989 Jun 16 0703:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1989 Jun 21 0704:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1989 Jun 23 0717:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1989 Jun 28 0714:00	MMR-06	-	-	MUSSON	Musson	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0

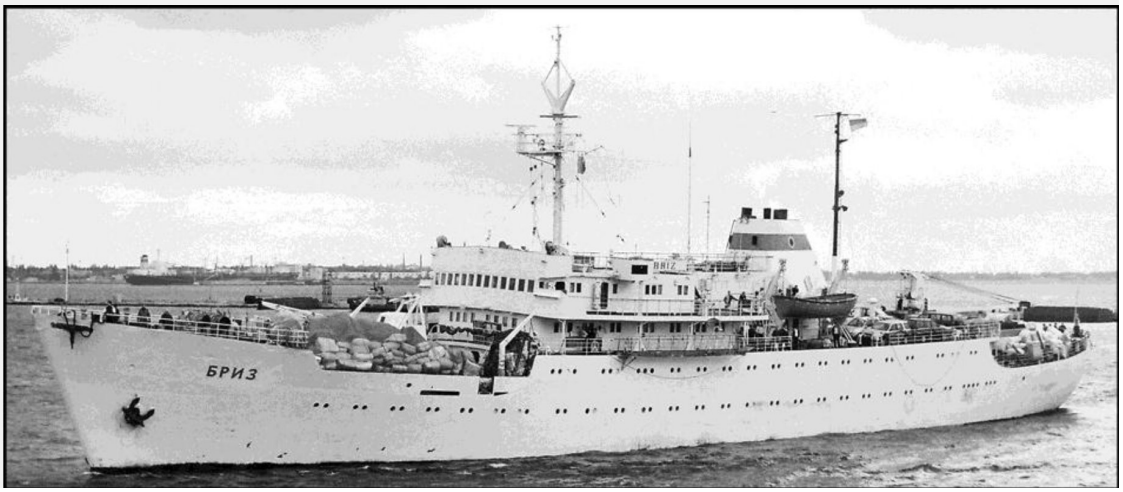
IV.1.3.3 Volna

Волна

«Волна»

с 1995 – **«Бриз»**

1968–2006



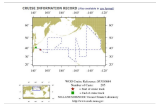
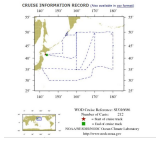
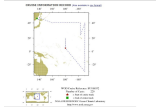
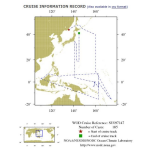
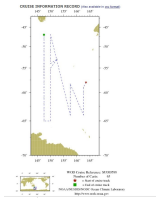
Credit: Photo from wrk.ru forums, file ”Passat (V88) 2016-11-23.pdf”.

Volna was renamed Briz in 1995.

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: VOLNA

LC_Code	Active	Region	Cruise	CruiseMap
GMS76B	1976 Feb 1 - 1976 Mar 31	Pacific Ocean	Volna Expedition 1, 1976 (SU016684)	
GMS77D	1977 Mar 15 - 1977 May 15	Pacific Ocean	Volna Expedition 2, 1977 (SU016686)	
GMS78B	1978 Mar 15 - 1978 Mar 31	Pacific Ocean	Volna Expedition 3, 1978 (SU016932)	
GMS79K	1979 Dec 15 - 1980 Mar 1	Ontong Java Plateau, Pacific Ocean	Volna Expedition 4, 1980 (SU097147)	
GMS81A	1981 Jan 1 - 1981 Mar 31	Southern Ocean	Volna Expedition 5, 1981 (SU009598)	

Updated: 2025 Jul 16 0237:13

Launches: VOLNA

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Feb 10 0700:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP1	-	-	180.0E 40.0N (+/- 5.0)	57.0
1976 Feb 12 0700:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP2	-	-	180.0E 40.0N (+/- 5.0)	58.0
1976 Feb 13 0900:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP2	-	-	180.0E 40.0N (+/- 5.0)	59.0
1976 Feb 16 0700:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP3	-	-	180.0E 40.0N (+/- 5.0)	61.0
1976 Feb 17 0900:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP4	-	-	180.0E 40.0N (+/- 5.0)	57.0
1976 Feb 27 0700:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP5	-	-	180.0E 40.0N (+/- 5.0)	63.0
1976 Mar 03 0900:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP6	-	-	180.0E 40.0N (+/- 5.0)	60.0
1976 Mar 05 1000:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP6	-	-	180.0E 40.0N (+/- 5.0)	61.0
1976 Mar 07 0800:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP7	-	-	180.0E 40.0N (+/- 5.0)	59.0
1976 Mar 08 0800:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP8	-	-	180.0E 40.0N (+/- 5.0)	60.0
1976 Mar 11 0900:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP1	-	-	180.0E 40.0N (+/- 5.0)	59.0
1976 Mar 11 1000:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP1	-	-	180.0E 40.0N (+/- 5.0)	62.0
1976 Mar 15 0900:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP9	-	-	180.0E 40.0N (+/- 5.0)	61.0
1976 Mar 15 1000:00	MMR-06	-	-	VOLNA	Volna	GMS76B	LP9	-	-	180.0E 40.0N (+/- 5.0)	61.0
1977 Mar 17 1000:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP1	-	-	160.0E 40.0N (+/- 5.0)	60.0
1977 Mar 18 0900:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP2	-	-	160.0E 40.0N (+/- 5.0)	61.0
1977 Mar 23 1100:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP3	-	-	160.0E 40.0N (+/- 5.0)	62.0
1977 Mar 25 1000:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP4	-	-	160.0E 40.0N (+/- 5.0)	57.0
1977 Mar 30 1000:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP5	-	-	160.0E 40.0N (+/- 5.0)	59.0
1977 Apr 14 1000:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP6	-	-	160.0E 40.0N (+/- 5.0)	60.0
1977 Apr 19 1000:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP7	-	-	160.0E 40.0N (+/- 5.0)	59.0
1977 Apr 20 0900:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP8	-	-	160.0E 40.0N (+/- 5.0)	60.0
1977 Apr 21 0900:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP8	-	-	160.0E 40.0N (+/- 5.0)	59.0
1977 Apr 23 0900:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP9	-	-	160.0E 40.0N (+/- 5.0)	62.0
1977 Apr 26 0900:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP10	-	-	160.0E 40.0N (+/- 5.0)	63.0
1977 Apr 30 1100:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP1	-	-	160.0E 40.0N (+/- 5.0)	68.0
1977 May 03 1100:00	MMR-06	-	-	VOLNA	Volna	GMS77D	LP11	-	-	160.0E 40.0N (+/- 5.0)	62.0
1978 Mar 19 0900:00	MMR-06	-	-	VOLNA	Volna	GMS78B	LP1	-	-	150.0W 34.0N (+/- 5.0)	59.0
1978 Mar 21 0700:00	MMR-06	-	-	VOLNA	Volna	GMS78B	LP2	-	-	150.0W 34.0N (+/- 5.0)	60.0
1978 Mar 24 0800:00	MMR-06	-	-	VOLNA	Volna	GMS78B	LP3	-	-	150.0W 34.0N (+/- 5.0)	60.0
1978 Mar 26 0700:00	MMR-06	-	-	VOLNA	Volna	GMS78B	LP4	-	-	150.0W 34.0N (+/- 5.0)	60.0
1979 Dec 24 1000:00	MMR-06	-	-	VOLNA	Volna	GMS79K	LP1	-	-	160.0E 0.0N (+/- 1.0)	60.0
1979 Dec 24 1545:00	MMR-06	-	-	VOLNA	Volna	GMS79K	LP1	-	-	160.0E 0.0N (+/- 1.0)	62.0
1980 Feb 08 1600:00	MMR-06	-	-	VOLNA	Volna	GMS79K	LP2	-	-	160.0E 0.0N (+/- 1.0)	56.0
1980 Feb 09 1540:00	MMR-06	-	-	VOLNA	Volna	GMS79K	LP2	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 25 1400:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 25 1630:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 25 1830:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	60.0
1980 Feb 26 1430:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	60.0
1980 Feb 26 1840:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	58.0
1980 Feb 27 1320:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 27 1730:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 28 1320:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 28 1420:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	60.0
1980 Feb 28 1530:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 28 1700:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1980 Feb 28 1800:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	60.0
1980 Feb 29 1220:00	MMR-06	-	-	VOLNA	Volna	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	59.0
1981 Jan 14 1300:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP1	-	-	155.0E 62.0S (+/- 5.0)	54.0
1981 Jan 15 1300:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP2	-	-	155.0E 62.0S (+/- 5.0)	61.0
1981 Jan 20 1300:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP3	-	-	155.0E 62.0S (+/- 5.0)	55.0
1981 Jan 21 1330:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP4	-	-	155.0E 62.0S (+/- 5.0)	60.0
1981 Feb 22 1320:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP5	-	-	155.0E 62.0S (+/- 5.0)	58.0
1981 Feb 23 1500:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP6	-	-	155.0E 62.0S (+/- 5.0)	62.0
1981 Feb 24 1340:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP7	-	-	155.0E 62.0S (+/- 5.0)	57.0

Launches: VOLNA

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1981 Mar 26 1600:00	MMR-06	-	-	VOLNA	Volna	GMS81A	LP8	-	-	155.0E 62.0S (+/- 5.0)	58.0

IV.1.3.4 Priliv

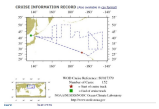
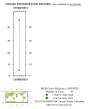
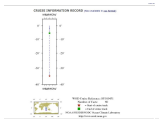
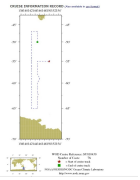
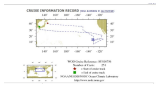
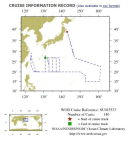
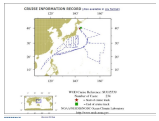
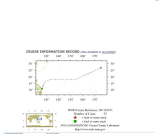
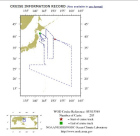
Прилив

Credit: Photo from wrk.ru forum found via https://forums.airbase.ru/2016/04/t347823–nauchno-issledovatelskie-suda.html

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: PRILIV

LC_Code	Active	Region	Cruise	CruiseMap
GMS76H	1976 Oct 15 - 1977 Jan 15	Pacific Ocean	Priliv Expedition 1, 1976-77 (SU017379)	
GMS79D	1979 Apr 15 - 1979 Jul 15	Indian Ocean	Priliv Expedition 2, 1979	-
GMS80D	1980 Apr 15 - 1980 Jun 15	Pacific Ocean	Priliv Expedition 3, 1980 (SU000728)	
GMS81B	1981 Jan 1 - 1981 Apr 15	Southern and Indian Oceans	Priliv Expedition 4, 1981 (SU010430/31)	 
GMS87A	1987 Jan 1 - 1987 Jan 15	Pacific Ocean?	Priliv Expedition 5, 1987	-
GMS87G	1987 Nov 15 - 1988 Feb 28	Pacific Ocean	Priliv Expedition 6, 1987-88 (SU016756)	
GMS88B	1988 Apr 1 - 1988 Apr 30	Pacific Ocean	Priliv Expedition 7, 1988 (SU015533)	
GMS88D	1988 Dec 15 - 1989 Mar 31	Pacific Ocean	Priliv Expedition 8, 1988-89 (SU015539)	
GMS90A	1990 Jan 1 - 1990 Mar 15	Pacific Ocean	Priliv Expedition 9, 1990 (SU015548/110331)	 

Updated: 2025 Jul 16 0237:13

Launches: PRILIV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Oct 16 0800:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP1	-	-	160.0W 40.0N (+/- 5.0)	61.0
1976 Oct 19 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP2	-	-	160.0W 40.0N (+/- 5.0)	64.0
1976 Nov 14 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP3	-	-	160.0W 40.0N (+/- 5.0)	60.0
1976 Nov 18 0700:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP4	-	-	160.0W 40.0N (+/- 5.0)	60.0
1976 Dec 21 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP5	-	-	160.0W 40.0N (+/- 5.0)	65.0
1976 Dec 31 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP6	-	-	160.0W 40.0N (+/- 5.0)	60.0
1976 Dec 31 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP7	-	-	160.0W 40.0N (+/- 5.0)	61.0
1977 Jan 03 1100:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP8	-	-	160.0W 40.0N (+/- 5.0)	58.0
1977 Jan 05 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS76H	LP9	-	-	160.0W 40.0N (+/- 5.0)	59.0
1979 Apr 23 1700:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP1	-	-	57.0E 4.0N (+/- 5.0)	60.0
1979 May 16 2100:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	55.0
1979 May 18 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	58.0
1979 May 21 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	59.0
1979 May 23 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP3	-	-	57.0E 4.0N (+/- 5.0)	58.0
1979 May 24 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	60.0
1979 May 27 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	59.0
1979 May 28 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	58.0
1979 May 29 2000:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP2	-	-	57.0E 4.0N (+/- 5.0)	58.0
1979 Jul 12 1400:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP4	-	-	57.0E 4.0N (+/- 5.0)	57.0
1979 Jul 12 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP4	-	-	57.0E 4.0N (+/- 5.0)	58.0
1979 Jul 12 1600:00	MMR-06	-	-	PRILIV	Priliv	GMS79D	LP4	-	-	57.0E 4.0N (+/- 5.0)	58.0
1980 Apr 19 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP1	-	-	160.0W 30.0N (+/- 5.0)	56.0
1980 Apr 23 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP2	-	-	160.0W 30.0N (+/- 5.0)	58.0
1980 Apr 25 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP3	-	-	160.0W 30.0N (+/- 5.0)	61.0
1980 May 17 1100:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP4	-	-	160.0W 30.0N (+/- 5.0)	58.0
1980 May 29 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP5	-	-	160.0W 30.0N (+/- 5.0)	56.0
1980 May 31 0900:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP6	-	-	160.0W 30.0N (+/- 5.0)	62.0
1980 May 31 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP6	-	-	160.0W 30.0N (+/- 5.0)	57.0
1980 Jun 02 1100:00	MMR-06	-	-	PRILIV	Priliv	GMS80D	LP5	-	-	160.0W 30.0N (+/- 5.0)	58.0
1981 Jan 14 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP1	-	-	150.0E 55.0S (+/- 5.0)	55.0
1981 Jan 17 1400:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP2	-	-	150.0E 55.0S (+/- 5.0)	58.0
1981 Jan 20 1300:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP3	-	-	150.0E 55.0S (+/- 5.0)	58.0
1981 Feb 10 1400:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP4	-	-	150.0E 55.0S (+/- 5.0)	60.0
1981 Feb 20 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP5	-	-	150.0E 55.0S (+/- 5.0)	64.0
1981 Feb 25 1230:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP6	-	-	150.0E 55.0S (+/- 5.0)	56.0
1981 Mar 23 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP7	-	-	150.0E 55.0S (+/- 5.0)	58.0
1981 Mar 26 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP8	-	-	150.0E 55.0S (+/- 5.0)	55.0
1981 Apr 02 1500:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP9	-	-	150.0E 55.0S (+/- 5.0)	55.0
1981 Apr 05 1600:00	MMR-06	-	-	PRILIV	Priliv	GMS81B	LP9	-	-	150.0E 55.0S (+/- 5.0)	56.0
1987 Jan 02 1220:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	59.0
1987 Jan 02 1444:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	58.0
1987 Jan 05 1624:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	58.0
1987 Jan 05 1741:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	60.0
1987 Jan 06 1406:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	57.0
1987 Jan 06 1525:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	58.0
1987 Jan 07 1139:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	62.0
1987 Jan 08 1105:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	59.0
1987 Jan 09 1001:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	59.0
1987 Jan 11 1237:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	57.0
1987 Jan 11 1347:00	MMR-06	-	-	PRILIV	Priliv	GMS87A	ULP1	-	-	-	57.0
1987 Nov 29 0951:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP1	-	-	170.0W 36.0N (+/- 5.0)	57.0
1987 Dec 01 0906:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP2	-	-	170.0W 36.0N (+/- 5.0)	58.0
1987 Dec 03 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP3	-	-	170.0W 36.0N (+/- 5.0)	60.0
1987 Dec 07 1405:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP4	-	-	170.0W 36.0N (+/- 5.0)	56.0
1988 Feb 23 1018:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP5	-	-	170.0W 36.0N (+/- 5.0)	59.0

Launches: PRILIV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1988 Feb 24 1105:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP6	-	-	170.0W 36.0N (+/- 5.0)	56.0
1988 Feb 25 1231:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP7	-	-	170.0W 36.0N (+/- 5.0)	58.0
1988 Feb 26 1108:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP8	-	-	170.0W 36.0N (+/- 5.0)	57.0
1988 Feb 27 1105:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP9	-	-	170.0W 36.0N (+/- 5.0)	59.0
1988 Feb 28 1113:00	MMR-06	-	-	PRILIV	Priliv	GMS87G	LP10	-	-	170.0W 36.0N (+/- 5.0)	60.0
1988 Apr 07 1210:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP1	-	-	161.0E 18.0N (+/- 5.0)	59.0
1988 Apr 10 1006:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP2	-	-	161.0E 18.0N (+/- 5.0)	57.0
1988 Apr 10 1445:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP3	-	-	161.0E 18.0N (+/- 5.0)	58.0
1988 Apr 16 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP4	-	-	161.0E 18.0N (+/- 5.0)	58.0
1988 Apr 17 1025:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP5	-	-	161.0E 18.0N (+/- 5.0)	59.0
1988 Apr 18 1025:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP6	-	-	161.0E 18.0N (+/- 5.0)	55.0
1988 Apr 18 1312:00	MMR-06	-	-	PRILIV	Priliv	GMS88B	LP7	-	-	161.0E 18.0N (+/- 5.0)	60.0
1988 Dec 18 0800:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP1	-	-	163.0E 27.0N (+/- 5.0)	59.0
1988 Dec 20 0800:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP2	-	-	163.0E 27.0N (+/- 5.0)	58.0
1988 Dec 21 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP3	-	-	163.0E 27.0N (+/- 5.0)	55.0
1988 Dec 22 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP4	-	-	163.0E 27.0N (+/- 5.0)	60.0
1988 Dec 25 1059:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP5	-	-	163.0E 27.0N (+/- 5.0)	57.0
1988 Dec 28 1109:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP6	-	-	163.0E 27.0N (+/- 5.0)	59.0
1989 Jan 01 1711:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP7	-	-	163.0E 27.0N (+/- 5.0)	60.0
1989 Jan 02 0924:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP8	-	-	163.0E 27.0N (+/- 5.0)	60.0
1989 Jan 03 1114:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP9	-	-	163.0E 27.0N (+/- 5.0)	55.0
1989 Jan 05 1046:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP10	-	-	163.0E 27.0N (+/- 5.0)	58.0
1989 Jan 06 1049:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP11	-	-	163.0E 27.0N (+/- 5.0)	58.0
1989 Jan 07 1013:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP12	-	-	163.0E 27.0N (+/- 5.0)	62.0
1989 Jan 07 1251:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP13	-	-	163.0E 27.0N (+/- 5.0)	56.0
1989 Jan 09 1252:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP14	-	-	163.0E 27.0N (+/- 5.0)	55.0
1989 Jan 11 1444:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP15	-	-	163.0E 27.0N (+/- 5.0)	57.0
1989 Jan 13 1151:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP16	-	-	163.0E 27.0N (+/- 5.0)	56.0
1989 Mar 16 1247:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP17	-	-	163.0E 27.0N (+/- 5.0)	57.0
1989 Mar 17 1155:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP18	-	-	163.0E 27.0N (+/- 5.0)	59.0
1989 Mar 19 1030:00	MMR-06	-	-	PRILIV	Priliv	GMS88D	LP19	-	-	163.0E 27.0N (+/- 5.0)	62.0
1990 Jan 01 1300:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP1	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 03 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP2	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 05 1430:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP3	-	-	160.0E 29.0N (+/- 5.0)	60.0
1990 Jan 06 1317:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP4	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 11 1115:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP5	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 13 1010:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP5	-	-	160.0E 29.0N (+/- 5.0)	58.0
1990 Jan 17 0908:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP5	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 21 1050:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP6	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 22 1000:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP7	-	-	160.0E 29.0N (+/- 5.0)	57.0
1990 Jan 23 1009:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP8	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 24 1023:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP9	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 25 1044:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP10	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Jan 26 1313:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP11	-	-	160.0E 29.0N (+/- 5.0)	50.0
1990 Mar 11 1058:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP12	-	-	160.0E 29.0N (+/- 5.0)	55.0
1990 Mar 14 1256:00	MMR-06	-	-	PRILIV	Priliv	GMS90A	LP13	-	-	160.0E 29.0N (+/- 5.0)	55.0

IV.1.3.5 Viktor Bugaev

Виктор Бугаев

Credit: Unknown

Credit: Credit: User VAV on shi

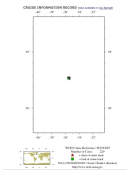
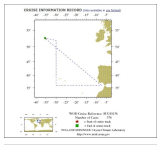
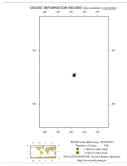
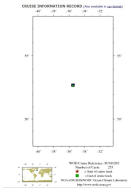
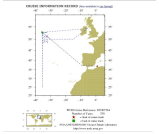
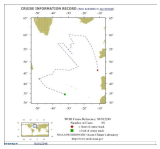
IMO 7048427. Built 1971 as the Poryv. Renamed Viktor Bugayev. Last research expedition in 1998. Sold to Ukraine Marine Ecology.

Operated by Odessa branch of Gosudarstvennoi Okeanographicheskiy Institut (State Oceanographic Institute, under the GMS).

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: BUGAEV

LC_Code	Active	Region	Cruise	CruiseMap
GMS80J	1980 Oct 1 - 1980 Oct 31	Minia, Atlantic Ocean	Bugaev Expedition 1, 1980 (SU010225)	
GMS81J	1981 Jun 1 - 1981 Jun 30	Minia, Atlantic Ocean	Bugaev Expedition 2, 1981 (SU010136)	
GMS81K	1981 Oct 15 - 1981 Nov 30	Minia, Atlantic Ocean	Bugaev Expedition 3, 1981 (SU010233)	
GMS82K	1982 Dec 1 - 1982 Dec 31	Minia, Atlantic Ocean	Bugaev Expedition 4, 1982 (SU010239)	–
GMS83H	1983 Mar 1 - 1983 Mar 31	Minia, Atlantic Ocean	Bugaev Expedition 5, 1983 (SU007027)	
GMS87N	1987 Jan 1 - 1987 Jan 31	Minia, Atlantic Ocean	Bugaev Expedition 6, 1987 (SU010263)	
GMS87P	1987 Apr 1 - 1987 Apr 30	Minia, Atlantic Ocean	Bugaev Expedition 7, 1987 (SU007364)	
GMS89J	1989 Jan 1 - 1989 Jan 31	Minia, Atlantic Ocean	Bugaev Expedition 8, 1989	–
GMS90F	1990 Dec 15 - 1991 Jan 1	Minia, Atlantic Ocean	Bugaev Expedition 9, 1990 (SU012248)	

Updated: 2025 Jul 16 0237:13

Launches: BUGAEV

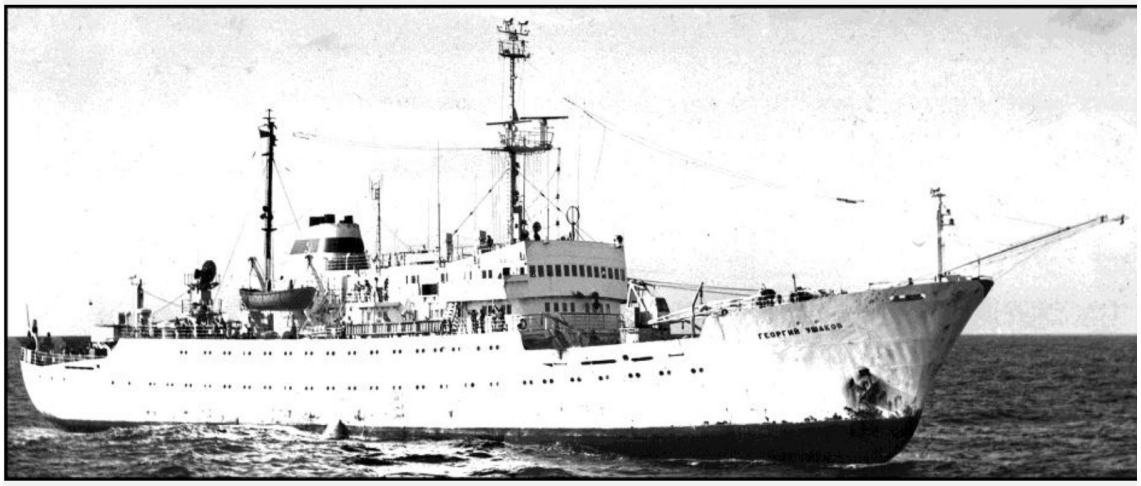
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980 Oct 01 0900:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 03 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 08 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 15 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 17 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 22 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Oct 24 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1980 Oct 29 0900:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1981 Jun 03 0730:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1981 Jun 05 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1981 Jun 10 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Jun 12 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 Jun 17 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	54.0
1981 Jun 19 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Jun 24 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Jun 26 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Jun 28 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Oct 21 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Oct 28 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1981 Nov 06 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1981 Nov 11 0740:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1981 Nov 18 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1981 Nov 25 0700:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 Dec 01 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Dec 03 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Dec 06 0820:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 Dec 08 0840:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Dec 17 0730:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Dec 22 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Dec 29 0720:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1982 Dec 29 0845:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1983 Mar 02 0855:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1983 Mar 04 0840:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Mar 07 0815:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 Mar 09 0820:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1983 Mar 11 0820:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1983 Mar 14 0735:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Mar 16 0840:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1983 Mar 18 0745:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 Mar 23 0740:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Mar 28 0735:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jan 07 0731:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1987 Jan 09 0803:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1987 Jan 14 0741:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1987 Jan 16 0740:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jan 21 0810:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Apr 01 0822:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Apr 03 0800:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Apr 08 0811:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	54.0
1987 Apr 10 0830:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Apr 15 0758:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1987 Apr 20 0750:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1987 Apr 22 0732:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Apr 24 0807:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Apr 27 0753:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0

Launches: BUGAEV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Jan 04 0810:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Jan 06 0704:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1989 Jan 09 0705:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Jan 11 0830:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Jan 13 0857:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Jan 15 0702:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 Jan 18 0701:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1989 Jan 20 0702:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1989 Jan 25 0721:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1989 Jan 27 0839:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1990 Dec 31 0706:00	MMR-06	-	-	BUGAEV	Viktor Bugaev	GMS90F	LP1	-	-	35.0W 53.0N (+/- 5.0)	62.0

IV.1.3.6 Georgiy Ushakov

Георгий Ушаков



Credit: Photo from wrk.ru forums, file ”Passat (V88) 2016-11-23.pdf”.

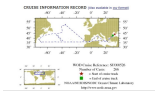
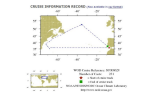
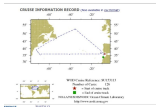
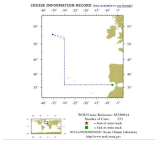
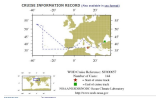
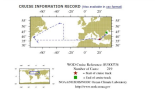
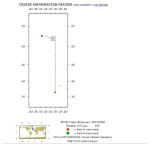
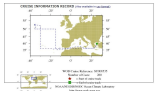
Originally Shkval (‘squall’); renamed 1984 Nov. Owned by GOI/GMS Odessa.

Note: There is little evidence for the location of the 1989-1990 launches, but the ship is known to have been in the same general area of the Atlantic as MINIA and so it seems likely that the launches were from there.

Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: USHAKOV

LC_Code	Active	Region	Cruise	CruiseMap
GMS76D	1976 Apr 15 - 1976 Jun 30	Minia, Atlantic Ocean	Ushakov Expedition 1, 1976 (SU000526/097314)	
GMS76G	1976 Aug 1 - 1976 Oct 15	Minia, Atlantic Ocean	Ushakov Expedition 2, 1976 (SU00628)	
GMS77E	1977 Apr 1 - 1977 Jun 15	Minia, Atlantic Ocean	Ushakov Expedition 3, 1977 (SU015113)	
GMS77K	1977 Jul 15 - 1977 Sep 15	Minia, Atlantic Ocean	Ushakov Expedition 4, 1977 (SU000614)	
GMS78D	1978 Apr 1 - 1978 Apr 2	Black Sea	Ushakov Expedition 6, 1978	–
GMS78H	1978 Feb 1 - 1978 Mar 1	Minia, Atlantic Ocean	Ushakov Expedition 5, 1978 (SU000657)	
GMS79G	1979 Nov 1 - 1979 Dec 31	Minia, Atlantic Ocean	Ushakov Expedition 7, 1979	–
GMS80G	1980 Mar 1 - 1980 Mar 31	Minia, Atlantic Ocean	Ushakov Expedition 8, 1980 (SU000734)	
GMS86E	1986 Sep 1 - 1986 Sep 30	Minia, Atlantic Ocean	Ushakov Expedition 9, 1986	–
GMS87H	1987 Nov 1 - 1987 Dec 15	Minia, Atlantic Ocean	Ushakov Expedition 10, 1987 (SU010268)	
GMS88E	1988 Feb 1 - 1988 Mar 15	Minia, Atlantic Ocean	Ushakov Expedition 11, 1988	–
GMS88F	1988 May 15 - 1988 Jun 30	Minia, Atlantic Ocean	Ushakov Expedition 12, 1988 (SU008535)	
GMS88G	1988 Aug 15 - 1988 Sep 30	Minia, Atlantic Ocean	Ushakov Expedition 13, 1988	–
GMS89D	1989 Oct 15 - 1989 Oct 31	Minia, Atlantic Ocean	Ushakov Expedition 14, 1989	–
GMS90G	1990 Jan 1 - 1990 Feb 1	Minia, Atlantic Ocean	Ushakov Expedition 15, 1989	–

Updated: 2025 Jul 16 0237:13

Launches: USHAKOV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Apr 21 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP1	-	-	35.0W 53.0N (+/- 2.0)	60.0
1976 Apr 28 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP2	-	-	35.0W 53.0N (+/- 2.0)	63.0
1976 May 03 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 May 12 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1976 May 19 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1976 May 25 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1976 May 27 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP3	-	-	35.0W 53.0N (+/- 2.0)	60.0
1976 Jun 09 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP4	-	-	35.0W 53.0N (+/- 2.0)	62.0
1976 Jun 15 0500:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP5	-	-	35.0W 53.0N (+/- 2.0)	62.0
1976 Jun 17 0600:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76D	LP6	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Aug 12 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76G	LP1	-	-	35.0W 53.0N (+/- 2.0)	60.0
1976 Aug 28 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76G	LP2	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Sep 04 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS76G	LP3	-	-	35.0W 53.0N (+/- 2.0)	62.0
1976 Sep 08 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Sep 09 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Sep 15 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Sep 21 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Sep 29 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1976 Oct 5 0200	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1976 Oct 13 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Apr 13 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77E	LP1	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Apr 29 0500:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77E	LP2	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 May 04 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 May 06 0500:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 May 11 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 May 18 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1977 May 25 0320:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Jun 01 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77E	LP3	-	-	35.0W 53.0N (+/- 2.0)	63.0
1977 Jun 03 0400:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77E	LP4	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Jun 04 0400:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77E	LP5	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Jul 27 0400:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77K	LP1	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Aug 03 2200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Aug 05 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1977 Aug 10 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Aug 12 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Aug 17 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1977 Aug 19 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1977 Aug 26 2100:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Aug 31 2200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Sep 07 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS77K	LP2	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Feb 01 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1978 Feb 03 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1978 Feb 08 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1978 Feb 10 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1978 Feb 15 0400:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	69.0
1978 Feb 17 0300:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1978 Feb 22 0200:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	68.0
1978 Feb 24 0335:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1978 Apr 01 1600:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS78D	LP1	-	-	31.0E 43.0N (+/- 2.0)	59.0
1978 Apr 01 1700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS78D	LP1	-	-	31.0E 43.0N (+/- 2.0)	58.0
1979 Nov 01 2140:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	GMS79G	LP1	-	-	35.0W 53.0N (+/- 2.0)	55.0
1979 Nov 07 0900:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Dec 12 0730:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Dec 19 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1979 Dec 24 0730:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0

Launches: USHAKOV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979 Dec 26 0715:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1980 Mar 05 0900:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Mar 12 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1980 Mar 14 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Mar 19 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Mar 21 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Mar 26 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1980 Mar 28 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1986 Sep 07 0748:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1986 Sep 19 0800:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1986 Sep 21 0804:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1986 Sep 22 0817:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1986 Sep 24 0759:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1986 Sep 28 0742:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Nov 13 0718:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Nov 18 0856:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Nov 27 0722:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1987 Dec 02 0717:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Dec 04 0740:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1987 Dec 09 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Dec 11 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Feb 15 0710:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1988 Feb 17 0702:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Feb 19 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1988 Feb 24 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Feb 26 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Feb 29 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Mar 02 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Mar 04 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Mar 09 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Mar 11 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1988 May 25 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 May 27 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 May 29 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Jun 01 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Jun 03 0701:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Jun 08 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Jun 10 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Jun 17 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Jun 22 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Jun 24 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Aug 28 0606:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Aug 31 0701:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Sep 02 0701:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1988 Sep 09 0701:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Sep 11 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Sep 14 0702:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Sep 16 0705:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1988 Sep 21 0707:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1988 Sep 23 0707:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1989 Oct 16 0717:00	MMR-06	[M-100B in R.File]	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 Oct 18 0820:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	66.0
1989 Oct 22 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Oct 22 0809:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Oct 23 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0

Launches: USHAKOV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Oct 23 0832:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1989 Oct 25 0715:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1990 Jan 05 0725:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Jan 10 0719:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Jan 12 0705:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1990 Jan 17 0704:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	55.0
1990 Jan 19 0704:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Jan 24 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Jan 26 0700:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Jan 31 0711:00	MMR-06	-	-	USHAKOV	Georgiy Ushakov	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0

IV.1.3.7 Ernst Krenkel’

Эрнст Кренкель

Credit: -

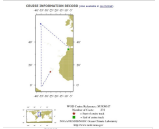
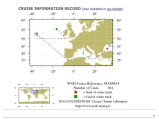
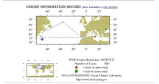
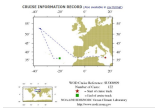
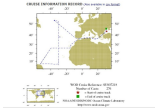
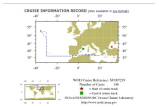
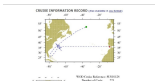
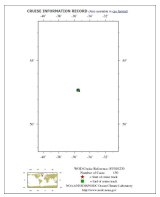
Credit: -

Originally named Vikhr’ (‘vortex’). Renamed Ernst Krenkel’ in 1972.

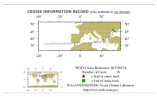
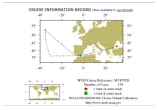
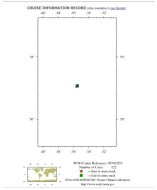
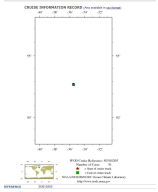
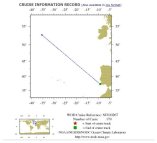
Rockets used: MMR-06

Updated: 2025 Jul 16 0237:13

Cruises: KREN

LC_Code	Active	Region	Cruise	CruiseMap
GMS77B	1977 Feb 1 - 1977 Apr 15	Minia, Atlantic Ocean	Krenkel Expedition 1, 1977 (SU010079)	
GMS77J	1977 Jun 1 - 1977 Jul 31	Minia, Atlantic Ocean	Krenkel Expedition 2, 1977 (SU000617)	
GMS77N	1977 Oct 1 - 1977 Oct 31	Minia, Atlantic Ocean	Krenkel Expedition 3, 1977 (SU000618)	
GMS78G	1978 Jul 15 - 1978 Sep 30	Minia, Atlantic Ocean	Krenkel Expedition 4, 1978 (SU000618)	
GMS79M	1979 Jan 1 - 1979 Feb 1	Minia, Atlantic Ocean	Krenkel Expedition 5, 1979 (SU000699)	
GMS79N	1979 Apr 15 - 1979 Apr 30	Minia, Atlantic Ocean	Krenkel Expedition 6, 1979 (SU000674)	
GMS79P	1979 Jul 1 - 1979 Jul 31	Minia, Atlantic Ocean	Krenkel Expedition 7, 1979 (SU007218)	
GMS79Q	1979 Nov 1 - 1979 Dec 1	Minia, Atlantic Ocean	Krenkel Expedition 8, 1979 (SU007219)	
GMS80H	1980 Sep 1 - 1980 Oct 15	Minia, Atlantic Ocean	Krenkel Expedition 9, 1980	-
GMS81F	1981 Feb 1 - 1981 Feb 28	Minia, Atlantic Ocean	Krenkel Expedition 10, 1981 (SU010128)	
GMS81G	1981 May 1 - 1981 May 31	Minia, Atlantic Ocean	Krenkel Expedition 11, 1981 (SU010230)	

Cruises: KREN

LC_Code	Active	Region	Cruise	CruiseMap
GMS82F	1982 Nov 1 - 1982 Nov 30	Minia, Atlantic Ocean	Krenkel Expedition 12, 1982 (SU010154)	
GMS83E	1983 Feb 1 - 1983 Feb 28	Minia, Atlantic Ocean	Krenkel Expedition 13, 1983 (SU007026)	
GMS85D	1985 Aug 1 - 1985 Sep 30	Minia, Atlantic Ocean	Krenkel Expedition 14, 1985 (SU010253)	
GMS86F	1986 Mar 1 - 1986 Apr 30	Minia, Atlantic Ocean	Krenkel Expedition 15, 1986	–
GMS87J	1987 Mar 1 - 1987 Mar 31	Minia, Atlantic Ocean	Krenkel Expedition 16, 1987 (SU010265)	
GMS87K	1987 Jun 1 - 1987 Jul 15	Minia, Atlantic Ocean	Krenkel Expedition 17, 1987	–
GMS87L	1987 Sep 1 - 1987 Oct 15	Minia, Atlantic Ocean	Krenkel Expedition 18, 1987 (SU010267)	
GMS89E	1989 Nov 1 - 1989 Nov 30	Minia, Atlantic Ocean	Krenkel Expedition 19, 1989	–
GMS90H	1990 Feb 1 - 1990 Mar 15	Minia, Atlantic Ocean	Krenkel Expedition 20, 1990	–

Updated: 2025 Jul 16 0237:13

Launches: KREN

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1977 Feb 06 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77B	LP1	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Feb 13 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77B	LP2	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Feb 27 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77B	LP3	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Mar 02 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Mar 04 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Mar 09 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1977 Mar 11 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Mar 17 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Mar 23 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1977 Mar 25 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Mar 31 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Mar 31 0600:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Apr 03 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77B	LP4	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Apr 04 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77B	LP5	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Jun 02 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP1	-	-	35.0W 53.0N (+/- 2.0)	56.0
1977 Jun 08 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP2	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Jun 08 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP2	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Jun 15 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP3	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jun 15 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP3	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jun 17 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP4	-	-	35.0W 53.0N (+/- 2.0)	58.0
1977 Jun 21 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP5	-	-	35.0W 53.0N (+/- 2.0)	57.0
1977 Jun 22 1400:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP6	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Jun 22 1640:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP6	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jun 26 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP7	-	-	35.0W 53.0N (+/- 2.0)	58.0
1977 Jun 29 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP8	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jun 29 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS77J	LP8	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jul 13 2000:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Jul 20 1800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Jul 20 2000:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1977 Jul 27 1900:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Jul 27 2100:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1977 Jul 29 1900:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Jul 29 2000:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1977 Oct 08 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Oct 08 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1977 Oct 13 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1977 Oct 15 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1977 Oct 15 0400:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1977 Oct 20 0100:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	66.0
1977 Oct 20 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1977 Oct 22 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1977 Oct 27 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1978 Jul 28 1500:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS78G	LP1	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Jul 28 1600:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS78G	LP1	-	-	35.0W 53.0N (+/- 2.0)	58.0
1978 Jul 30 1500:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS78G	LP1	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Jul 30 1600:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS78G	LP2	-	-	35.0W 53.0N (+/- 2.0)	57.0
1978 Aug 02 1800:00	MMR-06	-	-	KREN	Ernst Krenkel'	GMS78G	LP3	-	-	35.0W 53.0N (+/- 2.0)	58.0
1978 Sep 01 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Sep 06 0200:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1978 Sep 08 0300:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1978 Sep 13 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1978 Sep 15 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1978 Sep 20 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1978 Sep 22 0900:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1978 Sep 27 0900:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0

Launches: KREN

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Sep 29 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Jan 03 0900:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1979 Jan 26 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1979 Jan 31 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1979 Apr 25 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1979 Apr 27 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jul 04 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1979 Jul 11 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1979 Jul 18 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1979 Nov 07 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1979 Nov 16 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	87.0
1979 Nov 21 0740:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1979 Nov 30 0730:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Sep 05 0820:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	54.0
1980 Sep 10 0735:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Sep 12 0735:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1980 Sep 19 0730:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1980 Sep 24 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1980 Oct 01 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Feb 04 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	54.0
1981 Feb 06 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 Feb 06 0845:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1981 Feb 13 0830:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 Feb 18 0720:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1981 Feb 18 0840:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 Feb 20 1700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1981 May 01 0750:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 May 06 0830:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 May 08 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	55.0
1981 May 15 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1981 May 20 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1981 May 22 0800:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 May 24 0830:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1981 May 27 0730:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1981 May 29 0840:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1982 Nov 01 0730:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Nov 03 0710:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Nov 05 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1982 Nov 10 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Nov 12 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1982 Nov 15 0710:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1982 Nov 19 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Nov 22 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Nov 24 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1982 Nov 26 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1982 Nov 29 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 Feb 09 0710:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 Feb 13 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Feb 14 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1983 Feb 16 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1983 Feb 18 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1983 Feb 21 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1983 Feb 23 0750:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1983 Feb 27 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Aug 14 0820:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0

Launches: KREN

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Aug 16 0720:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1985 Aug 21 0745:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1985 Aug 23 0713:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Aug 28 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1985 Aug 30 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1985 Sep 04 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	81.0
1985 Sep 16 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1986 Mar 14 0739:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1986 Mar 17 0733:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1986 Mar 19 0704:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1986 Mar 21 0706:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	54.0
1986 Mar 26 0704:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1986 Mar 28 0713:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1986 Apr 02 0712:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1986 Apr 09 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1986 Apr 11 0726:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Mar 02 0745:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1987 Mar 04 0819:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Mar 06 0704:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Mar 18 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Mar 20 0723:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Mar 25 0717:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	61.0
1987 Mar 27 0705:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jun 05 0705:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Jun 10 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1987 Jun 12 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jun 15 0705:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	58.0
1987 Jun 17 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jun 19 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Jun 24 0703:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Jun 26 0701:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	59.0
1987 Jul 01 0706:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 04 2000:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 11 1916:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 16 1918:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 18 1917:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 23 1915:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 25 1905:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Sep 30 1916:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1987 Oct 02 1919:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1989 Nov 04 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1989 Nov 08 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 Nov 10 0708:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	65.0
1989 Nov 15 0700:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Nov 17 0716:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1989 Nov 22 0704:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	64.0
1989 Nov 27 0702:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	63.0
1990 Feb 09 0709:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	57.0
1990 Feb 12 0706:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	62.0
1990 Feb 14 0703:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	55.0
1990 Feb 16 0703:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Feb 21 0703:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Feb 23 0703:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Feb 28 0705:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	56.0
1990 Mar 02 0740:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0

Launches: KREN

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1990 Mar 07 0702:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0
1990 Mar 09 0754:00	MMR-06	-	-	KREN	Ernst Krenkel'	MINIA	-	-	-	35.0W 53.0N (+/- 2.0)	60.0

IV.1.3.8 Yu. M. Shokal'skiy

Ю. М. Шокальский

Credit: -

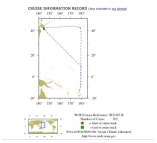
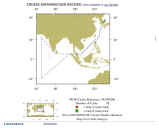
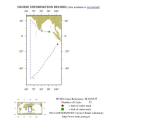
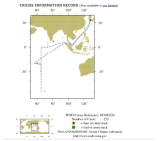
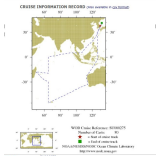
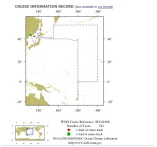
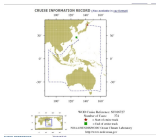
The association of the 1966 Dec expedition with the Shokalskiy is speculative.

The WDC Rocket File gives spurious positions for the summer 1979 expedition. I assume a zero has been dropped from the longitudes so that the ship was in mid-Pacific rather than the middle of Eastern Europe.

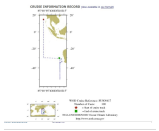
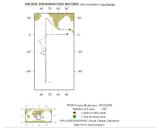
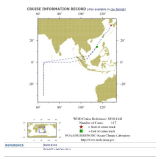
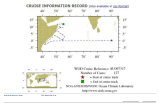
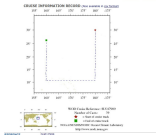
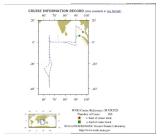
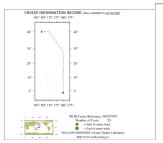
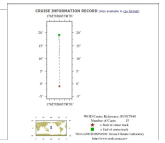
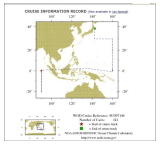
Rockets used: M-100

Updated: 2025 Jul 16 0237:13

Cruises: SHOK

LC_Code	Active	Region	Cruise	CruiseMap
GMS60C	1960 Nov 1 - 1960 Dec 15	Pacific Ocean	Sholalskiy Expedition 1, 1960 (SU016716)	
GMS65A	1965 Apr 15 - 1965 Jun 30	Pacific Ocean	Shokalskiy Expedition 2, 1965	-
GMS66A	1966 Dec 15 - 1967 Feb 28	Indian or Pacific Oceans?	Shokalskiy? Expedition 3, 1966-67	-
GMS69B	1969 Jan 1 - 1969 Feb 15	Indian Ocean	Shokalskiy Expedition 4, 1968-69 (SU000266)	
GMS69C	1969 May 15 - 1969 Jun 15	Indian Ocean	Shokalskiy Expedition 5, 1969 (SU10335)	
GMS70A	1970 Jun 15 - 1970 Jul 31	Indian Ocean	Shokalskiy Expedition 7, 1970 (SU000275)	
GMS70G	1970 Jan 1 - 1970 Feb 28	Indian Ocean	Shokalskiy Expedition 6, 1970 (SU000324)	
GMS74A	1974 Jan 15 - 1974 May 10	Pacific Ocean	Shokalskiy Expedition 8, 1974 (SU014166)	
GMS74C	1974 Aug 1 - 1974 Sep 30	Indian Ocean	Shokalskiy Expedition 9, 1974	-
GMS75C	1975 Apr 15 - 1975 Jun 30	Pacific Ocean	Shokalskiy Expedition 10, 1975 (SU016727)	

Cruises: SHOK

LC_Code	Active	Region	Cruise	CruiseMap
GMS76C	1976 Feb 15 - 1976 Apr 15	Indian Ocean	Shokalskiy Expedition 11, 1976 (SU008417)	
GMS76E	1976 Jun 15 - 1976 Aug 31	Indian Ocean	Shokalskiy Expedition 12, 1976 (SU012456)	
GMS76K	1976 Dec 1 - 1977 Jan 15	Indian Ocean	Shokalskiy Expedition 13, 1976 (SU014141)	
GMS77G	1977 May 1 - 1977 Jul 31	Indian Ocean	Shokalskiy Expedition 14, 1977 (SU097317)	
GMS77M	1977 Nov 15 - 1978 Jan 31	Pacific Ocean	Shokalskiy Expedition 15, 1977-78 (SU017909)	
GMS79A	1979 Feb 1 - 1979 Apr 1	Indian Ocean	Shokalskiy Expedition 16, 1979 (SU000529)	
GMS79F	1979 Jun 1 - 1979 Aug 31	Pacific Ocean	Shokalskiy Expedition 17, 1979 (SU017938/40)	 
GMS79H	1979 Nov 1 - 1980 Jan 15	Indian and Pacific Ocean	Shokalskiy Expedition 18, 1979-80 (SU097146)	

Updated: 2025 Jul 16 0237:13

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Nov 8 1404:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9034	-	-	180.0E 30.0N (+/- 5.0)	50.0
1960 Nov 13 1104:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9035	-	-	180.0E 30.0N (+/- 5.0)	44.0
1960 Nov 15 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9035	-	-	180.0E 30.0N (+/- 5.0)	40.0
1960 Nov 17 1104:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9035	-	-	180.0E 30.0N (+/- 5.0)	35.0
1960 Nov 19 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9035	-	-	180.0E 30.0N (+/- 5.0)	45.0
1960 Nov 21 1107:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9035	-	-	180.0E 30.0N (+/- 5.0)	44.0
1960 Nov 26 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9036	-	-	180.0E 30.0N (+/- 5.0)	44.0
1960 Nov 28 1142:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9036	-	-	180.0E 30.0N (+/- 5.0)	42.0
1960 Nov 30 1148:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9036	-	-	180.0E 30.0N (+/- 5.0)	46.0
1960 Dec 1 1104:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9037	-	-	180.0E 30.0N (+/- 5.0)	41.0
1960 Dec 2 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9038	-	-	180.0E 30.0N (+/- 5.0)	39.0
1960 Dec 4 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9039	-	-	180.0E 30.0N (+/- 5.0)	41.0
1960 Dec 5 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9040	-	-	180.0E 30.0N (+/- 5.0)	55.0
1960 Dec 6 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9041	-	-	180.0E 30.0N (+/- 5.0)	39.0
1960 Dec 8 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9042	-	-	180.0E 30.0N (+/- 5.0)	50.0
1960 Dec 9 1054:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9043	-	-	180.0E 30.0N (+/- 5.0)	52.0
1960 Dec 11 1030:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9044	-	-	180.0E 30.0N (+/- 5.0)	46.0
1960 Dec 12 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS60C	M9045	-	-	180.0E 30.0N (+/- 5.0)	48.0
1965 Apr 17 0944	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP1	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Apr 18 1416	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP2	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Apr 28 1303	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP3	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Apr 30 1200	M-100	Ion density	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP4	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 1 1159	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP5	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 2 1209	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP6	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 3 1211	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP7	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 4 1507:00	M-100	Error for May 5?	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP8	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 5 1305	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP9	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 5 1507	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP8	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 6 1158	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP10	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 7 1222	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP11	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 8 1200	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP12	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 9 1200	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP13	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 10 1242	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP14	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 11 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP15	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 12 1132	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP16	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 13 1000	M-100	0230LT?	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP17	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 15 1041	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP18	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 16 1000	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP19	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 17 1000	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP20	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 27 1053	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP21	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 28 1042	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP22	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 May 29 1058	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP23	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 3 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP24	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 5 1102	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP25	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 6 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP26	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 7 1130	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP27	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 9 1102	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP28	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 10 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP29	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 11 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP30	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 12 1224:59	M-100	Prob. SHOK?	-	SHOK	Yu. M. Shokal'skiy	GMS65A	M9072	-	-	160.0E 30.0N (+/- 5.0)	48.0
1965 Jun 13 1221	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP31	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 14 1100	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP32	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 15 1151	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP33	-	-	160.0E 30.0N (+/- 5.0)	85.0
1965 Jun 16 1153	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS65A	LP34	-	-	160.0E 30.0N (+/- 5.0)	85.0
1966 Dec 19 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9115	-	-	-	45.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Dec 21 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9114	-	-	-	40.0
1966 Dec 22 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9113	-	-	-	50.0
1966 Dec 23 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9112	-	-	-	79.0
1966 Dec 25 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9111	-	-	-	78.0
1966 Dec 29 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9110	-	-	-	60.0
1966 Dec 31 0820:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9169	-	-	-	80.0
1966 Dec 31 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9109	-	-	-	80.0
1967 Jan 2 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9108	-	-	-	83.0
1967 Jan 3 1025:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9107	-	-	-	60.0
1967 Jan 16 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9154	-	-	-	80.0
1967 Jan 17 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9155	-	-	-	83.0
1967 Jan 18 0959:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9156	-	-	-	83.0
1967 Jan 20 1104:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9157	-	-	-	83.0
1967 Jan 21 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9158	-	-	-	79.0
1967 Jan 22 1204:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9159	-	-	-	42.0
1967 Jan 23 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9160	-	-	-	43.0
1967 Feb 6 1026:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9106	-	-	-	80.0
1967 Feb 7 0957:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9105	-	-	-	46.0
1967 Feb 10 0953:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9104	-	-	-	48.0
1967 Feb 15 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9119	-	-	-	78.0
1967 Feb 16 1212:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9118	-	-	-	80.0
1967 Feb 18 0953:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9117	-	-	-	31.0
1967 Feb 20 0953:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS66A	M9116	-	-	-	80.0
1969 Jan 2 1640	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1969 Jan 2 2205	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1969 Jan 7 0352	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Jan 7 0950	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Jan 7 2147	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Jan 11 0351	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Jan 11 0945	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	94.0
1969 Jan 11 1556	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1969 Jan 11 2145	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Jan 23 0400	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1969 Jan 23 1000	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Jan 23 1620	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1969 Jan 27 0400	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1969 Jan 27 1640	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	96.0
1969 Jan 27 2200	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	96.0
1969 Feb 02 1805:00	M-100	-	MR-12	SHOK	Yu. M. Shokal'skiy	GMS69B	M9126	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Feb 03 1806:00	M-100	-	MR-12	SHOK	Yu. M. Shokal'skiy	GMS69B	M9125	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Feb 04 1800:00	M-100	-	MR-12	SHOK	Yu. M. Shokal'skiy	GMS69B	M9124	-	-	65.0E 20.0S (+/- 5.0)	96.0
1969 Feb 05 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	M9123	-	-	65.0E 20.0S (+/- 5.0)	89.0
1969 Feb 06 1825:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	M9122	-	-	65.0E 20.0S (+/- 5.0)	94.0
1969 Feb 07 1720:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	M9120	-	-	65.0E 20.0S (+/- 5.0)	86.0
1969 Feb 09 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	LP02	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Feb 10 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	M9121	-	-	65.0E 20.0S (+/- 5.0)	93.0
1969 Feb 11 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69B	M9166	-	-	65.0E 20.0S (+/- 5.0)	93.0
1969 May 19 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	M9128	-	-	70.2E 49.4S (+/- 0.0)	76.0
1969 May 19 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9129	-	-	65.0E 20.0S (+/- 5.0)	80.0
1969 May 19 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9130	-	-	65.0E 20.0S (+/- 5.0)	86.0
1969 May 20 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9131	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 May 21 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9132	-	-	65.0E 20.0S (+/- 5.0)	83.0
1969 May 21 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	82.0
1969 May 22 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 May 22 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9134	-	-	65.0E 20.0S (+/- 5.0)	88.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 May 23 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9135	-	-	65.0E 20.0S (+/- 5.0)	89.0
1969 May 24 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9136	-	-	65.0E 20.0S (+/- 5.0)	89.0
1969 May 24 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1969 May 25 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9138	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 May 25 2300:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9127	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 May 26 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9139	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 May 27 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9140	-	-	65.0E 20.0S (+/- 5.0)	88.0
1969 Jun 02 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9141	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jun 03 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9142	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jun 04 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9143	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Jun 4 1559:59	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9144	-	-	65.0E 20.0S (+/- 5.0)	72.0
1969 Jun 06 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1969 Jun 07 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Jun 07 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9146	-	-	65.0E 20.0S (+/- 5.0)	93.0
1969 Jun 07 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9147	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jun 08 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9148	-	-	65.0E 20.0S (+/- 5.0)	89.0
1969 Jun 09 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9149	-	-	65.0E 20.0S (+/- 5.0)	87.0
1969 Jun 10 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9150	-	-	65.0E 20.0S (+/- 5.0)	86.0
1969 Jun 11 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9151	-	-	65.0E 20.0S (+/- 5.0)	85.0
1969 Jun 12 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	LP1	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Jun 13 0400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9152	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jun 13 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS69C	M9153	-	-	65.0E 20.0S (+/- 5.0)	86.0
1970 Jan 06 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	91.0
1970 Jan 07 0001:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Jan 07 2025:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1970 Jan 07 2218:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Jan 08 2034:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	86.0
1970 Jan 08 2239:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	85.0
1970 Jan 09 2020:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Jan 09 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Jan 10 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Jan 11 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Jan 17 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1970 Jan 18 2006:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	81.0
1970 Jan 18 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1970 Jan 19 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Jan 19 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1970 Jan 20 1920:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Jan 20 2049:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Jan 20 2237:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1970 Jan 21 2115:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1970 Feb 04 2001:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Feb 04 2201:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Feb 05 2045:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	83.0
1970 Feb 06 0123:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1970 Feb 06 2001:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Feb 06 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1970 Feb 07 2050:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1970 Feb 07 2232:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1970 Feb 11 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1970 Feb 12 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Feb 13 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Feb 13 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Feb 14 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Feb 14 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	90.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Feb 17 2043:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	83.0
1970 Feb 17 2100	M-100	Atomic O	[Same as 2043Z?]	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	90.0
1970 Feb 17 2245:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	90.0
1970 Feb 18 2017:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	87.0
1970 Feb 18 2218:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	88.0
1970 Jun 18 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP1	-	-	65.0E 30.0S (+/- 5.0)	91.0
1970 Jun 20 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP2	-	-	65.0E 30.0S (+/- 5.0)	90.0
1970 Jun 21 2100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP3	-	-	65.0E 30.0S (+/- 5.0)	91.0
1970 Jul 01 2010:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1970 Jul 01 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Jul 05 2005:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP4	-	-	65.0E 30.0S (+/- 5.0)	88.0
1970 Jul 06 2015:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP5	-	-	65.0E 30.0S (+/- 5.0)	94.0
1970 Jul 08 1956:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP6	-	-	65.0E 30.0S (+/- 5.0)	85.0
1970 Jul 10 1830:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP7	-	-	65.0E 30.0S (+/- 5.0)	85.0
1970 Jul 13 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP8	-	-	65.0E 30.0S (+/- 5.0)	86.0
1970 Jul 13 2230:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP8	-	-	65.0E 30.0S (+/- 5.0)	92.0
1970 Jul 15 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP9	-	-	65.0E 30.0S (+/- 5.0)	95.0
1970 Jul 15 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP9	-	-	65.0E 30.0S (+/- 5.0)	93.0
1970 Jul 17 2024:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP10	-	-	65.0E 30.0S (+/- 5.0)	85.0
1970 Jul 17 2222:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP11	-	-	65.0E 30.0S (+/- 5.0)	86.0
1970 Jul 18 2015:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP10	-	-	65.0E 30.0S (+/- 5.0)	90.0
1970 Jul 18 2205:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP10	-	-	65.0E 30.0S (+/- 5.0)	89.0
1970 Jul 20 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP12	-	-	65.0E 30.0S (+/- 5.0)	91.0
1970 Jul 20 2150:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS70A	LP12	-	-	65.0E 30.0S (+/- 5.0)	91.0
1970 Jul 21 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1974 Jan 28 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP1	-	-	180.0E 0.0N (+/- 5.0)	95.0
1974 Feb 01 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP2	-	-	180.0E 0.0N (+/- 5.0)	85.0
1974 Feb 07 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP3	-	-	180.0E 0.0N (+/- 5.0)	89.0
1974 Feb 08 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP4	-	-	180.0E 0.0N (+/- 5.0)	90.0
1974 Feb 09 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP5	-	-	180.0E 0.0N (+/- 5.0)	90.0
1974 Feb 11 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP6	-	-	180.0E 0.0N (+/- 5.0)	91.0
1974 Feb 13 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP7	-	-	180.0E 0.0N (+/- 5.0)	91.0
1974 Feb 18 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP7	-	-	180.0E 0.0N (+/- 5.0)	90.0
1974 Feb 24 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	91.0
1974 Mar 02 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP9	-	-	180.0E 0.0N (+/- 5.0)	93.0
1974 Mar 05 0200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP10	-	-	180.0E 0.0N (+/- 5.0)	90.0
1974 Mar 07 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP11	-	-	180.0E 0.0N (+/- 5.0)	93.0
1974 Mar 20 0800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP12	-	-	180.0E 0.0N (+/- 5.0)	90.0
1974 Mar 22 0900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP13	-	-	180.0E 0.0N (+/- 5.0)	91.0
1974 Mar 24 0800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP14	-	-	180.0E 0.0N (+/- 5.0)	88.0
1974 Mar 27 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP15	-	-	180.0E 0.0N (+/- 5.0)	93.0
1974 Mar 27 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP15	-	-	180.0E 0.0N (+/- 5.0)	82.0
1974 Mar 31 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP16	-	-	180.0E 0.0N (+/- 5.0)	87.0
1974 Mar 31 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP16	-	-	180.0E 0.0N (+/- 5.0)	93.0
1974 May 05 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74A	LP17	-	-	180.0E 0.0N (+/- 5.0)	87.0
1974 Aug 14 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP1	-	-	65.0E 0.0N (+/- 5.0)	90.0
1974 Aug 18 1930:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP2	-	-	65.0E 0.0N (+/- 5.0)	91.0
1974 Aug 20 1830:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP3	-	-	65.0E 0.0N (+/- 5.0)	87.0
1974 Aug 23 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP4	-	-	65.0E 0.0N (+/- 5.0)	85.0
1974 Aug 24 1930:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1974 Sep 03 1930:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP6	-	-	65.0E 0.0N (+/- 5.0)	88.0
1974 Sep 05 1940:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP7	-	-	65.0E 0.0N (+/- 5.0)	80.0
1974 Sep 10 1940:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP8	-	-	65.0E 0.0N (+/- 5.0)	79.0
1974 Sep 13 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	91.0
1974 Sep 15 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP10	-	-	65.0E 0.0N (+/- 5.0)	86.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Sep 16 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	83.0
1974 Sep 20 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS74C	LP11	-	-	65.0E 0.0N (+/- 5.0)	88.0
1975 Apr 25 0800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP1	-	-	160.0E 0.0N (+/- 5.0)	90.0
1975 May 06 1300:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP2	-	-	160.0E 0.0N (+/- 5.0)	88.0
1975 May 07 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP3	-	-	160.0E 0.0N (+/- 5.0)	87.0
1975 May 08 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	95.0
1975 May 08 1330:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	87.0
1975 May 09 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP4	-	-	160.0E 0.0N (+/- 5.0)	89.0
1975 May 11 0800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP5	-	-	160.0E 0.0N (+/- 5.0)	85.0
1975 May 13 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP6	-	-	160.0E 0.0N (+/- 5.0)	85.0
1975 May 21 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP7	-	-	160.0E 0.0N (+/- 5.0)	92.0
1975 May 24 1030:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP8	-	-	160.0E 0.0N (+/- 5.0)	89.0
1975 Jun 12 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP9	-	-	160.0E 0.0N (+/- 5.0)	78.0
1975 Jun 17 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP10	-	-	160.0E 0.0N (+/- 5.0)	88.0
1975 Jun 20 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP10	-	-	160.0E 0.0N (+/- 5.0)	81.0
1975 Jun 24 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP11	-	-	160.0E 0.0N (+/- 5.0)	82.0
1975 Jun 26 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP12	-	-	160.0E 0.0N (+/- 5.0)	87.0
1975 Jun 26 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP12	-	-	160.0E 0.0N (+/- 5.0)	83.0
1975 Jun 28 1540:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS75C	LP13	-	-	160.0E 0.0N (+/- 5.0)	83.0
1976 Feb 18 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP1	-	-	90.0E 0.0N (+/- 5.0)	85.0
1976 Feb 19 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP2	-	-	90.0E 0.0N (+/- 5.0)	82.0
1976 Feb 20 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP3	-	-	90.0E 0.0N (+/- 5.0)	83.0
1976 Feb 21 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP4	-	-	90.0E 0.0N (+/- 5.0)	89.0
1976 Feb 22 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1976 Feb 22 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	89.0
1976 Feb 24 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP5	-	-	90.0E 0.0N (+/- 5.0)	80.0
1976 Feb 29 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP6	-	-	90.0E 0.0N (+/- 5.0)	83.0
1976 Mar 03 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP7	-	-	90.0E 0.0N (+/- 5.0)	83.0
1976 Mar 08 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP8	-	-	90.0E 0.0N (+/- 5.0)	86.0
1976 Mar 11 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP9	-	-	90.0E 0.0N (+/- 5.0)	76.0
1976 Mar 13 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP10	-	-	90.0E 0.0N (+/- 5.0)	82.0
1976 Mar 14 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP11	-	-	90.0E 0.0N (+/- 5.0)	80.0
1976 Mar 14 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP11	-	-	90.0E 0.0N (+/- 5.0)	84.0
1976 Mar 15 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP12	-	-	90.0E 0.0N (+/- 5.0)	88.0
1976 Mar 16 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP13	-	-	90.0E 0.0N (+/- 5.0)	85.0
1976 Mar 17 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP9	-	-	90.0E 0.0N (+/- 5.0)	83.0
1976 Mar 26 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP14	-	-	90.0E 0.0N (+/- 5.0)	86.0
1976 Mar 28 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP15	-	-	90.0E 0.0N (+/- 5.0)	84.0
1976 Mar 31 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP7	-	-	90.0E 0.0N (+/- 5.0)	86.0
1976 Apr 03 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP6	-	-	90.0E 0.0N (+/- 5.0)	86.0
1976 Apr 09 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP16	-	-	90.0E 0.0N (+/- 5.0)	86.0
1976 Apr 10 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP16	-	-	90.0E 0.0N (+/- 5.0)	88.0
1976 Apr 11 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP3	-	-	90.0E 0.0N (+/- 5.0)	83.0
1976 Apr 12 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP2	-	-	90.0E 0.0N (+/- 5.0)	87.0
1976 Apr 13 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76C	LP1	-	-	90.0E 0.0N (+/- 5.0)	90.0
1976 Jun 22 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP1	-	-	65.0E 0.0N (+/- 5.0)	90.0
1976 Jun 23 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP2	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Jun 25 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP3	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Jun 26 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP4	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Jun 28 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	89.0
1976 Jun 30 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1976 Jul 01 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP6	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Jul 14 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	82.0
1976 Jul 17 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP7	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Jul 19 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP8	-	-	65.0E 0.0N (+/- 5.0)	92.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Jul 20 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Jul 20 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP9	-	-	65.0E 0.0N (+/- 5.0)	82.0
1976 Jul 21 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP10	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Jul 23 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP11	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Jul 26 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1976 Jul 29 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP13	-	-	65.0E 0.0N (+/- 5.0)	83.0
1976 Jul 31 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP8	-	-	65.0E 0.0N (+/- 5.0)	76.0
1976 Aug 01 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	85.0
1976 Aug 01 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	86.0
1976 Aug 03 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP13	-	-	65.0E 0.0N (+/- 5.0)	82.0
1976 Aug 05 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP11	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Aug 06 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP14	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Aug 08 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1976 Aug 08 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1976 Aug 19 1650:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP15	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Aug 21 1750:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1976 Aug 22 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP17	-	-	65.0E 0.0N (+/- 5.0)	84.0
1976 Aug 23 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP6	-	-	65.0E 0.0N (+/- 5.0)	92.0
1976 Aug 24 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Aug 24 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	86.0
1976 Aug 25 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP18	-	-	65.0E 0.0N (+/- 5.0)	84.0
1976 Aug 26 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP19	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Aug 26 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP19	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Aug 27 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP20	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Aug 28 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP20	-	-	65.0E 0.0N (+/- 5.0)	88.0
1976 Aug 28 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP21	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Aug 30 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP22	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Aug 30 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76E	LP22	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Dec 01 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP1	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Dec 01 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP1	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Dec 02 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP2	-	-	65.0E 0.0N (+/- 5.0)	79.0
1976 Dec 03 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP3	-	-	65.0E 0.0N (+/- 5.0)	81.0
1976 Dec 05 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP4	-	-	65.0E 0.0N (+/- 5.0)	82.0
1976 Dec 15 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP5	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Dec 16 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP6	-	-	65.0E 0.0N (+/- 5.0)	83.0
1976 Dec 17 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1976 Dec 17 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1976 Dec 18 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP6	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Dec 20 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Dec 23 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Dec 23 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Dec 25 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP8	-	-	65.0E 0.0N (+/- 5.0)	90.0
1976 Dec 25 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP8	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Dec 26 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Dec 26 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1976 Dec 27 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP10	-	-	65.0E 0.0N (+/- 5.0)	81.0
1976 Dec 27 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP11	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Dec 30 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP12	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Dec 30 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS76K	LP12	-	-	65.0E 0.0N (+/- 5.0)	86.0
1977 Jan 02 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1977 Jan 02 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1977 May 08 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP1	-	-	65.0E 0.0N (+/- 5.0)	87.0
1977 May 11 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP2	-	-	65.0E 0.0N (+/- 5.0)	85.0
1977 May 17 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP3	-	-	65.0E 0.0N (+/- 5.0)	82.0
1977 May 19 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP4	-	-	65.0E 0.0N (+/- 5.0)	85.0

Launches: SHOK

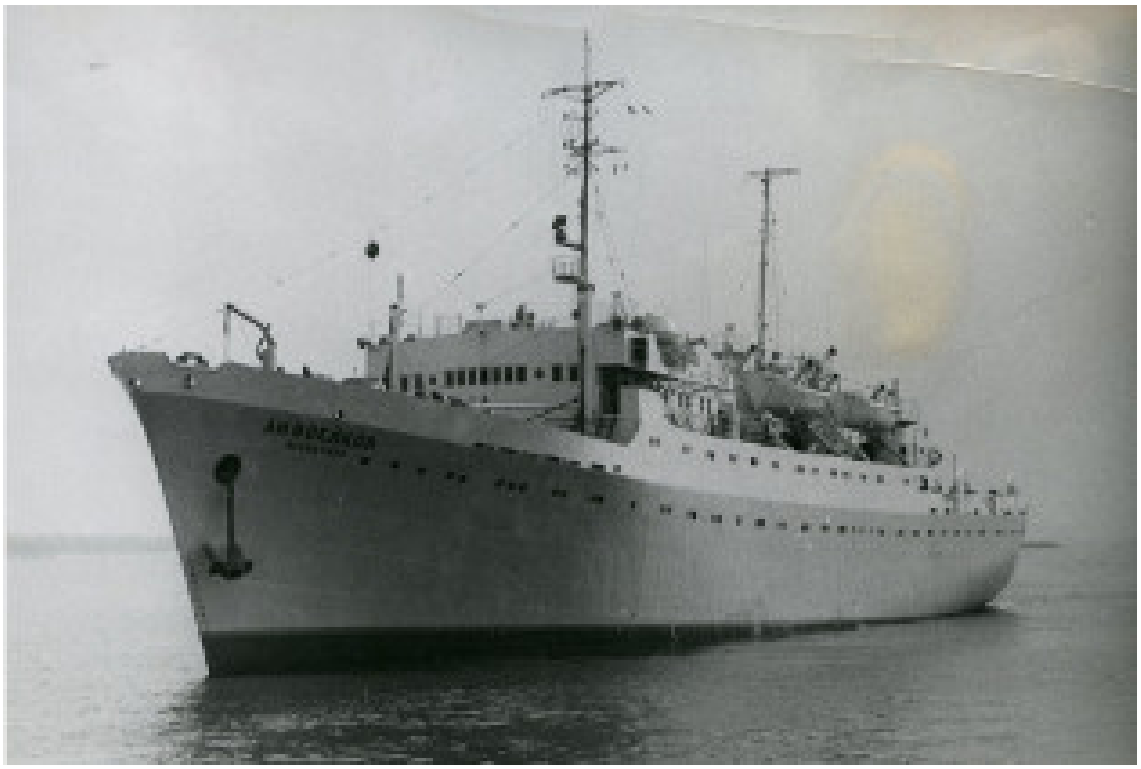
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1977 May 21 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP5	-	-	65.0E 0.0N (+/- 5.0)	85.0
1977 May 21 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP6	-	-	65.0E 0.0N (+/- 5.0)	80.0
1977 Jun 04 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP7	-	-	65.0E 0.0N (+/- 5.0)	80.0
1977 Jun 04 2300:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP7	-	-	65.0E 0.0N (+/- 5.0)	81.0
1977 Jul 15 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77G	LP8	-	-	65.0E 0.0N (+/- 5.0)	81.0
1977 Nov 17 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP1	-	-	160.0E 0.0N (+/- 5.0)	85.0
1977 Nov 23 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP2	-	-	160.0E 0.0N (+/- 5.0)	86.0
1977 Nov 24 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP3	-	-	160.0E 0.0N (+/- 5.0)	86.0
1977 Nov 26 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	74.0
1977 Nov 28 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP5	-	-	160.0E 0.0N (+/- 5.0)	85.0
1977 Nov 29 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP6	-	-	160.0E 0.0N (+/- 5.0)	85.0
1977 Dec 02 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP7	-	-	160.0E 0.0N (+/- 5.0)	88.0
1977 Dec 10 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP1	-	-	160.0E 0.0N (+/- 5.0)	83.0
1977 Dec 14 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP1	-	-	160.0E 0.0N (+/- 5.0)	80.0
1977 Dec 18 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP8	-	-	160.0E 0.0N (+/- 5.0)	80.0
1977 Dec 26 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP9	-	-	160.0E 0.0N (+/- 5.0)	84.0
1978 Jan 05 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP10	-	-	160.0E 0.0N (+/- 5.0)	82.0
1978 Jan 10 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP11	-	-	160.0E 0.0N (+/- 5.0)	81.0
1978 Jan 12 1300:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1978 Jan 14 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	82.0
1978 Jan 16 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1978 Jan 18 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP12	-	-	160.0E 0.0N (+/- 5.0)	82.0
1978 Jan 20 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP13	-	-	160.0E 0.0N (+/- 5.0)	85.0
1978 Jan 20 1145:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP13	-	-	160.0E 0.0N (+/- 5.0)	85.0
1978 Jan 23 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP14	-	-	160.0E 0.0N (+/- 5.0)	86.0
1978 Jan 26 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP15	-	-	160.0E 0.0N (+/- 5.0)	84.0
1978 Jan 26 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS77M	LP15	-	-	160.0E 0.0N (+/- 5.0)	83.0
1979 Feb 04 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP1	-	-	65.0E 0.0N (+/- 5.0)	86.0
1979 Feb 05 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1979 Feb 09 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP2	-	-	65.0E 0.0N (+/- 5.0)	80.0
1979 Feb 13 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	80.0
1979 Feb 14 2200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	84.0
1979 Feb 15 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP3	-	-	65.0E 0.0N (+/- 5.0)	85.0
1979 Feb 16 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP4	-	-	65.0E 0.0N (+/- 5.0)	91.0
1979 Feb 17 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	83.0
1979 Feb 18 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP4	-	-	65.0E 0.0N (+/- 5.0)	84.0
1979 Feb 23 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP5	-	-	65.0E 0.0N (+/- 5.0)	86.0
1979 Feb 26 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP6	-	-	65.0E 0.0N (+/- 5.0)	84.0
1979 Mar 01 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP7	-	-	65.0E 0.0N (+/- 5.0)	83.0
1979 Mar 01 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP7	-	-	65.0E 0.0N (+/- 5.0)	81.0
1979 Mar 14 2100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP8	-	-	65.0E 0.0N (+/- 5.0)	84.0
1979 Mar 18 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP9	-	-	65.0E 0.0N (+/- 5.0)	84.0
1979 Mar 18 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP9	-	-	65.0E 0.0N (+/- 5.0)	87.0
1979 Mar 27 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP9	-	-	65.0E 0.0N (+/- 5.0)	86.0
1979 Mar 27 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1979 Mar 31 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP8	-	-	65.0E 0.0N (+/- 5.0)	86.0
1979 Mar 31 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79A	LP10	-	-	65.0E 0.0N (+/- 5.0)	84.0
1979 Jun 10 1340:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP1	-	-	180.0E 0.0N (+/- 5.0)	75.0
1979 Jun 13 1340:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP2	-	-	180.0E 0.0N (+/- 5.0)	75.0
1979 Jun 20 1440:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP3	-	-	180.0E 0.0N (+/- 5.0)	86.0
1979 Jun 23 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP4	-	-	180.0E 0.0N (+/- 5.0)	88.0
1979 Jun 25 1240:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP5	-	-	180.0E 0.0N (+/- 5.0)	88.0
1979 Jul 08 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP6	-	-	180.0E 0.0N (+/- 5.0)	84.0
1979 Jul 10 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP7	-	-	180.0E 0.0N (+/- 5.0)	86.0
1979 Jul 22 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP8	-	-	180.0E 0.0N (+/- 5.0)	81.0

Launches: SHOK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979 Jul 22 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP8	-	-	180.0E 0.0N (+/- 5.0)	82.0
1979 Jul 27 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP9	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Jul 27 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP9	-	-	180.0E 0.0N (+/- 5.0)	87.0
1979 Aug 09 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP10	-	-	180.0E 0.0N (+/- 5.0)	92.0
1979 Aug 10 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP11	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Aug 13 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP4	-	-	180.0E 0.0N (+/- 5.0)	78.0
1979 Aug 17 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP3	-	-	180.0E 0.0N (+/- 5.0)	87.0
1979 Aug 20 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP12	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Aug 23 1300:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP13	-	-	180.0E 0.0N (+/- 5.0)	87.0
1979 Aug 23 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP13	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Aug 25 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP14	-	-	180.0E 0.0N (+/- 5.0)	86.0
1979 Aug 28 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP2	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Aug 28 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP2	-	-	180.0E 0.0N (+/- 5.0)	85.0
1979 Aug 30 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79F	LP15	-	-	180.0E 0.0N (+/- 5.0)	75.0
1979 Nov 02 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP1	-	-	90.0E 0.0N (+/- 5.0)	86.0
1979 Nov 05 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP2	-	-	90.0E 0.0N (+/- 5.0)	82.0
1979 Nov 05 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP2	-	-	90.0E 0.0N (+/- 5.0)	81.0
1979 Nov 08 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP3	-	-	90.0E 0.0N (+/- 5.0)	81.0
1979 Nov 11 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1979 Nov 11 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Nov 11 1630:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1979 Nov 11 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1979 Nov 12 1500:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1979 Nov 12 1600:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Nov 12 1800:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	77.0
1979 Nov 13 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Nov 13 1630:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1979 Nov 13 1740:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Nov 14 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	79.0
1979 Nov 14 1540:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Nov 14 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Nov 14 2100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	74.0
1979 Nov 15 2000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	79.0
1979 Nov 15 2100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1979 Dec 12 1700:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	85.0
1979 Dec 19 1900:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1979 Dec 24 1000:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	69.0
1980 Jan 01 1400:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP4	-	-	90.0E 0.0N (+/- 5.0)	84.0
1980 Jan 05 1100:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP5	-	-	90.0E 0.0N (+/- 5.0)	76.0
1980 Jan 05 1200:00	M-100	-	-	SHOK	Yu. M. Shokal'skiy	GMS79H	LP5	-	-	90.0E 0.0N (+/- 5.0)	85.0

IV.1.3.9 A. I. Voeykov

А.И. Воейков



Credit: -

Note: In NSSDC/WDC-A/RS document 78-02, ”Launch Summary 1973-77”, and other derived NSSDC rocket databases, some M-100 launches in 1973 are associated with a ship called ‘NOYEKOV’. It is now clear that this was a typo and these launches were from the Voeykov.

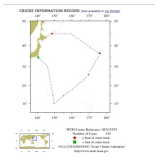
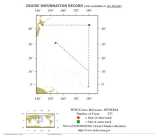
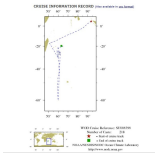
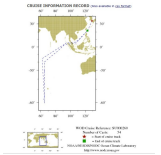
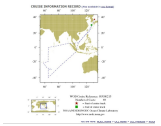
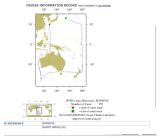
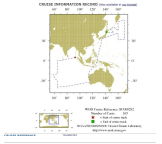
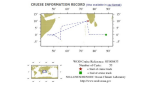
Note: the online version of the NSSDC rocket file available from GSFC in the 1990s alas did not retain ship-launch positions. I also understand the original records were discarded by WDC/A-RS, alas. The 1986 cruise has no corresponding entry in the NOAA OCL WOD lists, so we don’t even know which ocean the launches were from.

Note: the association of the 1966 Dec expedition with the Voeykov is speculative.

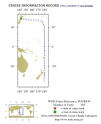
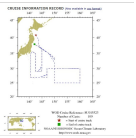
Rockets used: M-100,M-100B

Updated: 2025 Jul 16 0237:13

Cruises: VOKV

LC_Code	Active	Region	Cruise	CruiseMap
GMS60A	1960 Jan 20 - 1960 Apr 1	Pacific Ocean	Voeykov Expedition 1, 1960 (SU015559)	
GMS60B	1960 Aug 1 - 1960 Aug 16	Pacific Ocean	Voeykov Expedition 2, 1960 (SU000044)	
GMS65B	1965 Apr 28 - 1965 Jun 20	Pacific Ocean	Voeykov Expedition 3, 1965	-
GMS66B	1966 Dec 15 - 1967 Feb 5	Indian or Pacific Oceans?	Voeykov? Expedition 4, 1966-67	-
GMS67A	1967 May 1 - 1967 Aug 15	Indian Ocean	Voeykov Expedition 5, 1967 (SU008398)	
GMS69A	1968 Dec 15 - 1969 Feb 15	Indian Ocean	Voeykov Expedition 6, 1968-69 (SU000260)	
GMS69F	1969 Sep 15 - 1969 Oct 31	Indian Ocean	Voeykov Expedition 7, 1969 (SU000215)	
GMS70D	1970 Nov 1 - 1971 Jan 20	Indian and Pacific Oceans	Voeykov Expedition 9, 1970 (SU000292)	
GMS70F	1970 Mar 1 - 1970 Apr 20	Indian Ocean	Voeykov Expedition 8, 1970 (SU000345)	
GMS73B	1973 May 15 - 1973 Jul 31	Indian Ocean	Voeykov Expedition 10, 1973 (SU000433)	

Cruises: VOKV

LC_Code	Active	Region	Cruise	CruiseMap
GMS73E	1973 Oct 1 - 1973 Dec 15	Pacific Ocean	Voeykov Expedition 11, 1973 (SU000434)	
GMS82E	1982 Nov 15 - 1983 Jan 1	Indian Ocean	Voeykov Expedition 12, 1982	-
GMS83C	1983 Aug 15 - 1983 Sep 15	Indian Ocean	Voeykov Expedition 13, 1983	-
GMS86C	1986 Aug 1 - 1986 Aug 31	Pacific or Indian Ocean?	Voeykov Expedition 14, 1986	-
GMS87D	1987 May 15 - 1987 Jun 30	Pacific Ocean	Voeykov Expedition 15, 1987	

Updated: 2025 Jul 16 0237:13

Launches: VOKV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Jan 24 0659:59	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9002	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Jan 30 1154:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9003	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Feb 1 1030:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9004	-	-	175.7E 36.7N (+/- 5.0)	45.0
1960 Feb 2 1037:59	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9005	-	-	175.7E 36.7N (+/- 5.0)	46.0
1960 Feb 3 1121:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9006	-	-	175.7E 36.7N (+/- 5.0)	43.0
1960 Feb 4 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9007	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Feb 5 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9008	-	-	175.7E 36.7N (+/- 5.0)	38.0
1960 Feb 6 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9009	-	-	175.7E 36.7N (+/- 5.0)	38.0
1960 Feb 7 1103:59	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9010	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Feb 8 1102:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9011	-	-	175.7E 36.7N (+/- 5.0)	43.0
1960 Feb 9 1107:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9012	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Feb 10 1200:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9013	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Feb 11 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9014	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Feb 12 1054:59	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9015	-	-	175.7E 36.7N (+/- 5.0)	35.0
1960 Feb 13 0855:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9016	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Mar 12 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9017	-	-	175.7E 36.7N (+/- 5.0)	41.0
1960 Mar 15 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9018	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Mar 18 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9019	-	-	175.7E 36.7N (+/- 5.0)	45.0
1960 Mar 24 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9020	-	-	175.7E 36.7N (+/- 5.0)	43.0
1960 Mar 27 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9021	-	-	175.7E 36.7N (+/- 5.0)	45.0
1960 Mar 30 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9022	-	-	175.7E 36.7N (+/- 5.0)	45.0
1960 Mar 31 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60A	M9023	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Aug 1 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9024	-	-	175.7E 36.7N (+/- 5.0)	42.0
1960 Aug 2 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9025	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Aug 3 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9026	-	-	175.7E 36.7N (+/- 5.0)	40.0
1960 Aug 5 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9027	-	-	175.7E 36.7N (+/- 5.0)	43.0
1960 Aug 6 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9028	-	-	175.7E 36.7N (+/- 5.0)	44.0
1960 Aug 9 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9029	-	-	175.7E 36.7N (+/- 5.0)	43.0
1960 Aug 12 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9030	-	-	175.7E 36.7N (+/- 5.0)	39.0
1960 Aug 13 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9031	-	-	175.7E 36.7N (+/- 5.0)	33.0
1960 Aug 14 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9032	-	-	175.7E 36.7N (+/- 5.0)	47.0
1960 Aug 15 2300:00	M-100	-	-	VOKV	A. I. Voeykov	GMS60B	M9033	-	-	175.7E 36.7N (+/- 5.0)	44.0
1965 Apr 30 1030	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP2	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Apr 30 1417:30	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP1	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 1 1124	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP3	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 4 0941	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP5	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 4 1211	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP4	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 6 0858	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP6	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 7 0957	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP7	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 8 1351:00	M-100	Error for May 9?	-	VOKV	A. I. Voeykov	GMS65B	LP8	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 9 0859	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP9	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 9 1351	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP8	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 10 0943	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP10	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 11 0959	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP11	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 12 0905	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP12	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 14 0859	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP13	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 15 0913	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP14	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 26 1058	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP15	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 28 2203	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP16	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 29 2206	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP17	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 30 2201	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP18	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 May 30 2309	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP19	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 2 1445	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP20	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 3 1232	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP21	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 4 1206	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP22	-	-	150.0W 0.0N (+/- 5.0)	85.0

Launches: VOKV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Jun 5 1155	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP23	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 6 1200	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP24	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 7 1158	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP25	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 8 1235	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP26	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 9 1216	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP27	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 10 1201	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP28	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 11 1200	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP29	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 13 1205	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP31	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 13 1525	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP30	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 14 1217	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP32	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 15 1127	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP33	-	-	150.0W 0.0N (+/- 5.0)	85.0
1965 Jun 19 1251	M-100	-	-	VOKV	A. I. Voeykov	GMS65B	LP34	-	-	150.0W 0.0N (+/- 5.0)	85.0
1966 Dec 19 1501:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9193	-	-	-	52.0
1966 Dec 21 1121:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9199	-	-	-	78.0
1966 Dec 25 0847:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9194	-	-	-	50.0
1966 Dec 26 0912:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9195	-	-	-	80.0
1966 Dec 27 2046:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9196	-	-	-	78.0
1966 Dec 29 0830:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9197	-	-	-	78.0
1966 Dec 30 0830:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9198	-	-	-	42.0
1967 Jan 1 0732:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9192	-	-	-	39.0
1967 Jan 3 0800:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9191	-	-	-	64.0
1967 Jan 4 0912:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9190	-	-	-	78.0
1967 Jan 4 0959:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9209	-	-	-	83.0
1967 Jan 5 0834:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9189	-	-	-	78.0
1967 Jan 6 0803:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9188	-	-	-	180.0
1967 Jan 6 0959:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9208	-	-	-	85.0
1967 Jan 6 2153:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9187	-	-	-	45.0
1967 Jan 7 0853:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9186	-	-	-	44.0
1967 Jan 8 1002:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9185	-	-	-	80.0
1967 Jan 10 0904:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9184	-	-	-	75.0
1967 Jan 10 1009:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9210	-	-	-	83.0
1967 Jan 11 0920:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9183	-	-	-	48.0
1967 Jan 14 1911:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9207	-	-	-	84.0
1967 Jan 17 0944:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9182	-	-	-	33.0
1967 Jan 18 0922:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9181	-	-	-	80.0
1967 Jan 19 1134:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9180	-	-	-	80.0
1967 Jan 21 1104:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9200	-	-	-	50.0
1967 Jan 23 1030:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9179	-	-	-	58.0
1967 Jan 24 1048:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9178	-	-	-	80.0
1967 Jan 26 1100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9173	-	-	-	80.0
1967 Jan 27 1108:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9174	-	-	-	70.0
1967 Jan 28 1113:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9175	-	-	-	78.0
1967 Jan 30 1113:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9177	-	-	-	78.0
1967 Feb 1 1133:00	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9176	-	-	-	80.0
1967 Feb 4 1055:59	M-100	-	-	VOKV	A. I. Voeykov	GMS66B	M9170	-	-	-	80.0
1967 May 7 1526	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP1	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 May 14 1720	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP2	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 Jun 13 1636	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP3	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 Jun 15 1638:00	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP4	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 Jun 17 1628	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP5	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 Jun 17 2115	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP6	-	-	90.0E 0.0N (+/- 5.0)	90.0
1967 Aug 11 2025	M-100	-	-	VOKV	A. I. Voeykov	GMS67A	LP7	-	-	90.0E 0.0N (+/- 5.0)	90.0
1968 Dec 26 1559:59	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Dec 26 2330:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	74.0
1968 Dec 27 0511:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0

Launches: VOKV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 Dec 30 0502:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	78.0
1968 Dec 30 1100:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Dec 30 1549:59	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Dec 30 1753:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	74.0
1968 Dec 30 2351:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1969 Jan 2 0350	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Jan 2 0942	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Jan 2 1645	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jan 3 0000	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jan 7 0300	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	94.0
1969 Jan 7 1000	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Jan 11 1000	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jan 11 1630	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jan 11 2200	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	89.0
1969 Jan 23 0350	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	93.0
1969 Jan 23 0948	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	93.0
1969 Jan 23 2149	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	94.0
1969 Jan 24 1558	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	87.0
1969 Jan 27 0353	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jan 27 0945	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jan 27 1545	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	96.0
1969 Jan 27 2145	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9127	-	-	65.0E 20.0S (+/- 5.0)	96.0
1969 Jan 28 1852:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9138	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jan 30 1003:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9135	-	-	65.0E 20.0S (+/- 5.0)	92.0
1969 Jan 30 2004:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9206	-	-	65.0E 20.0S (+/- 5.0)	91.0
1969 Jan 31 1900:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Feb 01 1900:00	M-100	-	MR-12	VOKV	A. I. Voeykov	GMS69A	M9205	-	-	65.0E 20.0S (+/- 5.0)	87.0
1969 Feb 02 1900:00	M-100	-	MR-12	VOKV	A. I. Voeykov	GMS69A	M9204	-	-	65.0E 20.0S (+/- 5.0)	84.0
1969 Feb 03 2000:00	M-100	-	MR-12	VOKV	A. I. Voeykov	KER	M9128	-	-	70.2E 49.4S (+/- 0.0)	90.0
1969 Feb 04 2000:00	M-100	-	MR-12	VOKV	A. I. Voeykov	GMS69A	M9203	-	-	65.0E 20.0S (+/- 5.0)	98.0
1969 Feb 05 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9201	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Feb 06 1745:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	LP01	-	-	65.0E 20.0S (+/- 5.0)	90.0
1969 Feb 06 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS69A	M9202	-	-	65.0E 20.0S (+/- 5.0)	95.0
1969 Sep 16 1950:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Sep 16 2143:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Sep 17 1950:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Sep 17 2140:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Sep 18 1145:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Sep 18 2159:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Sep 18 2308:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Sep 19 2010:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Sep 19 2232:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Sep 20 1007:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	77.0
1969 Sep 20 2008:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Sep 25 2315:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Sep 26 2005:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Sep 26 2200:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Sep 27 1900	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Sep 28 2003	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Sep 28 2200	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1969 Sep 29 2123:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Sep 29 2231:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Oct 11 2000:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 11 2154:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Oct 12 1950:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	88.0

Launches: VOKV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Oct 12 2144:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 13 1955:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 13 2155:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 14 2145:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 15 1957:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Oct 15 2145:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1969 Oct 18 2136:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Oct 18 2236:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	87.0
1969 Oct 19 1906:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	91.0
1969 Oct 19 2200:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	83.0
1969 Oct 20 1920:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	95.0
1969 Oct 20 2217:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	94.0
1969 Oct 21 0949:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	89.0
1969 Oct 21 1854:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1969 Oct 21 2058:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1970 Mar 08 2010:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	85.0
1970 Mar 08 2211:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	85.0
1970 Mar 10 2034:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	96.0
1970 Mar 10 2242:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Mar 11 1954:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Mar 11 2144:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	96.0
1970 Mar 12 2025:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Mar 12 2154:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	91.0
1970 Mar 13 2013:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Mar 13 2134:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Mar 24 1923:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Mar 24 2132:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Mar 25 1947:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1970 Mar 25 2059:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Mar 26 2032:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1970 Mar 26 2120:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1970 Mar 29 1953:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1970 Mar 29 2137:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Mar 30 1956:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Apr 06 1954:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	95.0
1970 Apr 06 2145:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1970 Apr 07 1931:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	91.0
1970 Apr 08 1940:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Apr 08 2130:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Apr 09 1949:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Apr 09 2110:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	95.0
1970 Apr 10 1931:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Apr 13 2000:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Apr 14 2000:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	87.0
1970 Apr 15 1925:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Apr 15 2126:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	95.0
1970 Apr 16 1950:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	96.0
1970 Apr 16 2128:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	95.0
1970 Apr 17 1940:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Apr 17 2127:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	93.0
1970 Apr 18 1917:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Apr 18 2133:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	94.0
1970 Nov 06 1600:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP1	-	-	180.0E 0.0N (+/- 5.0)	94.0
1970 Nov 14 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP2	-	-	180.0E 0.0N (+/- 5.0)	93.0
1970 Nov 17 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP3	-	-	180.0E 0.0N (+/- 5.0)	90.0

Launches: VOKV

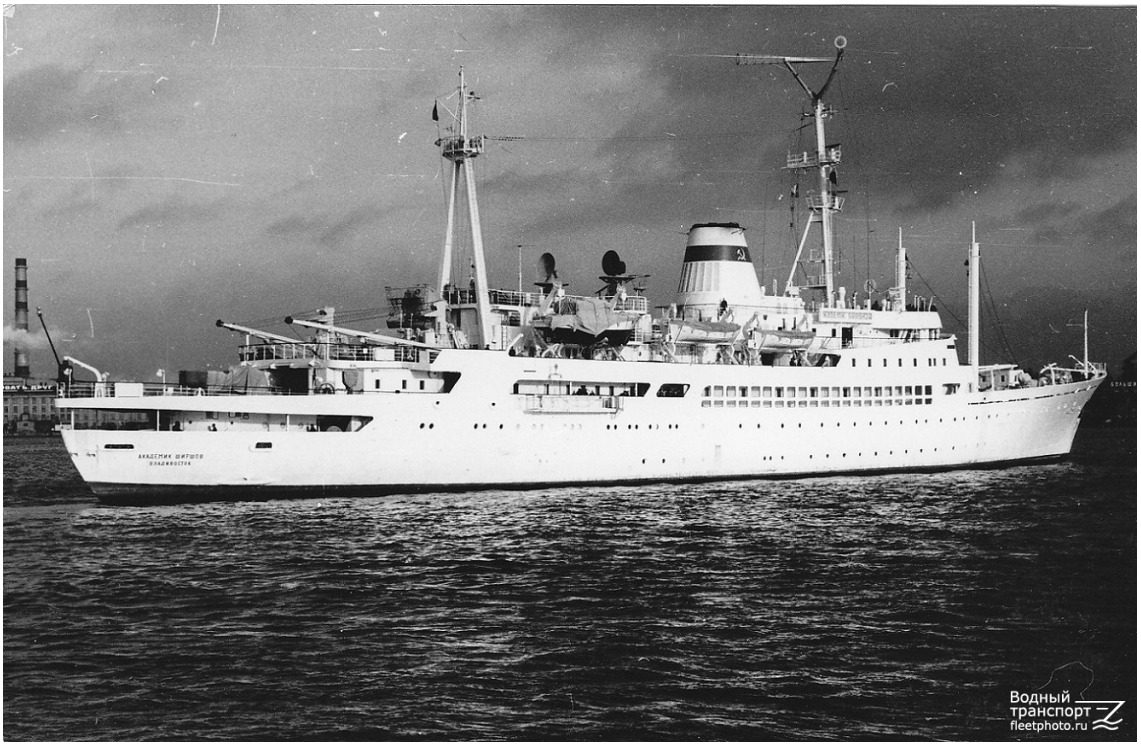
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Nov 18 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP4	-	-	180.0E 0.0N (+/- 5.0)	90.0
1970 Nov 19 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP5	-	-	180.0E 0.0N (+/- 5.0)	91.0
1970 Nov 20 1600:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP6	-	-	180.0E 0.0N (+/- 5.0)	87.0
1970 Nov 21 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP7	-	-	180.0E 0.0N (+/- 5.0)	91.0
1970 Nov 23 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP8	-	-	180.0E 0.0N (+/- 5.0)	88.0
1970 Nov 24 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP9	-	-	180.0E 0.0N (+/- 5.0)	90.0
1970 Nov 29 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP10	-	-	180.0E 0.0N (+/- 5.0)	87.0
1970 Dec 03 1000:00	M-100	-	-	VOKV	A. I. Voeykov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	87.0
1970 Dec 06 1000:00	M-100	-	-	VOKV	A. I. Voeykov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	92.0
1970 Dec 08 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP11	-	-	180.0E 0.0N (+/- 5.0)	90.0
1970 Dec 13 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP12	-	-	180.0E 0.0N (+/- 5.0)	88.0
1970 Dec 14 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP13	-	-	180.0E 0.0N (+/- 5.0)	85.0
1970 Dec 16 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP14	-	-	180.0E 0.0N (+/- 5.0)	94.0
1970 Dec 26 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP15	-	-	180.0E 0.0N (+/- 5.0)	94.0
1970 Dec 30 1500:00	M-100	-	-	VOKV	A. I. Voeykov	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	94.0
1971 Jan 13 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP16	-	-	180.0E 0.0N (+/- 5.0)	90.0
1971 Jan 13 1700:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP17	-	-	180.0E 0.0N (+/- 5.0)	92.0
1971 Jan 14 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP18	-	-	180.0E 0.0N (+/- 5.0)	85.0
1971 Jan 16 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS70D	LP19	-	-	180.0E 0.0N (+/- 5.0)	89.0
1973 May 19 1600:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP1	-	-	50.0E 0.0N (+/- 5.0)	83.0
1973 May 25 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP2	-	-	50.0E 0.0N (+/- 5.0)	84.0
1973 May 29 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	85.0
1973 Jun 01 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	87.0
1973 Jun 04 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	86.0
1973 Jun 06 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	86.0
1973 Jun 08 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP4	-	-	50.0E 0.0N (+/- 5.0)	85.0
1973 Jun 24 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	84.0
1973 Jun 27 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP5	-	-	50.0E 0.0N (+/- 5.0)	85.0
1973 Jun 30 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP5	-	-	50.0E 0.0N (+/- 5.0)	84.0
1973 Jul 02 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP3	-	-	50.0E 0.0N (+/- 5.0)	86.0
1973 Jul 04 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP6	-	-	50.0E 0.0N (+/- 5.0)	84.0
1973 Jul 14 1600:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP7	-	-	50.0E 0.0N (+/- 5.0)	89.0
1973 Jul 15 1600:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP8	-	-	50.0E 0.0N (+/- 5.0)	85.0
1973 Jul 17 1500:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP9	-	-	50.0E 0.0N (+/- 5.0)	89.0
1973 Jul 18 1700:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73B	LP10	-	-	50.0E 0.0N (+/- 5.0)	88.0
1973 Oct 06 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP1	-	-	180.0E 0.0N (+/- 5.0)	85.0
1973 Oct 08 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP2	-	-	180.0E 0.0N (+/- 5.0)	89.0
1973 Oct 14 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP3	-	-	180.0E 0.0N (+/- 5.0)	90.0
1973 Oct 16 0900:00	M-100	-	-	VOKV	A. I. Voeykov	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	88.0
1973 Oct 17 0900:00	M-100	-	-	VOKV	A. I. Voeykov	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	88.0
1973 Oct 18 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP5	-	-	180.0E 0.0N (+/- 5.0)	87.0
1973 Oct 30 1200:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP6	-	-	180.0E 0.0N (+/- 5.0)	88.0
1973 Nov 02 1000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP7	-	-	180.0E 0.0N (+/- 5.0)	84.0
1973 Nov 13 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP8	-	-	180.0E 0.0N (+/- 5.0)	88.0
1973 Nov 16 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP9	-	-	180.0E 0.0N (+/- 5.0)	88.0
1973 Nov 18 1000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP10	-	-	180.0E 0.0N (+/- 5.0)	85.0
1973 Nov 24 0910:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP5	-	-	180.0E 0.0N (+/- 5.0)	88.0
1973 Nov 25 1430:00	M-100	-	-	VOKV	A. I. Voeykov	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	90.0
1973 Nov 27 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP11	-	-	180.0E 0.0N (+/- 5.0)	87.0
1973 Dec 04 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP12	-	-	180.0E 0.0N (+/- 5.0)	87.0
1973 Dec 06 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP13	-	-	180.0E 0.0N (+/- 5.0)	86.0
1973 Dec 09 0900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS73E	LP14	-	-	180.0E 0.0N (+/- 5.0)	86.0
1982 Nov 25 1751:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP1	-	-	80.0E 0.0N (+/- 5.0)	82.0
1982 Nov 29 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP2	-	-	80.0E 0.0N (+/- 5.0)	83.0
1982 Dec 01 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP3	-	-	80.0E 0.0N (+/- 5.0)	87.0

Launches: VOKV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Dec 05 1925:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP4	-	-	80.0E 0.0N (+/- 5.0)	87.0
1982 Dec 07 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP5	-	-	80.0E 0.0N (+/- 5.0)	87.0
1982 Dec 09 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP6	-	-	80.0E 0.0N (+/- 5.0)	85.0
1982 Dec 28 2320:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP7	-	-	80.0E 0.0N (+/- 5.0)	85.0
1982 Dec 31 1800:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP8	-	-	80.0E 0.0N (+/- 5.0)	90.0
1982 Dec 31 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP9	-	-	80.0E 0.0N (+/- 5.0)	90.0
1983 Jan 03 1800:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP10	-	-	80.0E 0.0N (+/- 5.0)	91.0
1983 Jan 04 1900:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP11	-	-	80.0E 0.0N (+/- 5.0)	88.0
1983 Jan 05 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP12	-	-	80.0E 0.0N (+/- 5.0)	52.0
1983 Jan 08 2000:00	M-100	-	-	VOKV	A. I. Voeykov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	82.0
1983 Jan 09 2100:00	M-100	-	-	VOKV	A. I. Voeykov	GMS82E	LP14	-	-	80.0E 0.0N (+/- 5.0)	85.0
1983 Aug 31 2000:00	M-100	-	-	VOKV	A. I. Voeykov	GMS83C	LP1	-	-	64.0E 3.0N (+/- 5.0)	87.0
1983 Sep 03 1855:00	M-100	-	-	VOKV	A. I. Voeykov	GMS83C	LP2	-	-	64.0E 3.0N (+/- 5.0)	87.0
1983 Sep 03 2050:00	M-100	-	-	VOKV	A. I. Voeykov	GMS83C	LP2	-	-	64.0E 3.0N (+/- 5.0)	61.0
1986 Aug 14 0830:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	88.0
1986 Aug 14 1045:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	88.0
1986 Aug 14 1315:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	88.0
1986 Aug 17 0800:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	88.0
1986 Aug 17 1110:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	87.0
1986 Aug 19 0800:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	86.0
1986 Aug 19 0900:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	87.0
1986 Aug 19 0900:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS86C	ULP1	-	-	-	88.0
1987 May 18 1154:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP1	-	-	150.0E 30.0N (+/- 5.0)	88.0
1987 May 19 1130:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP2	-	-	150.0E 30.0N (+/- 5.0)	87.0
1987 May 20 1140:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP3	-	-	150.0E 30.0N (+/- 5.0)	86.0
1987 May 21 1108:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP4	-	-	150.0E 30.0N (+/- 5.0)	85.0
1987 May 24 1210:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP5	-	-	150.0E 30.0N (+/- 5.0)	88.0
1987 May 25 1142:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP6	-	-	150.0E 30.0N (+/- 5.0)	87.0
1987 May 28 1100:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP7	-	-	150.0E 30.0N (+/- 5.0)	87.0
1987 Jun 21 1209:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP8	-	-	150.0E 30.0N (+/- 5.0)	85.0
1987 Jun 22 1300:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP9	-	-	150.0E 30.0N (+/- 5.0)	80.0
1987 Jun 24 1213:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP10	-	-	150.0E 30.0N (+/- 5.0)	83.0
1987 Jun 24 1446:00	M-100B	-	-	VOKV	A. I. Voeykov	GMS87D	LP10	-	-	150.0E 30.0N (+/- 5.0)	81.0

IV.1.3.10 Akademik Shirshov

Академик Ширшов



Credit: -

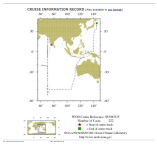
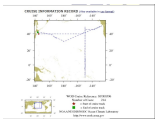
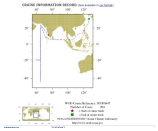
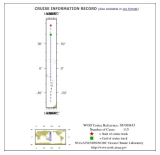
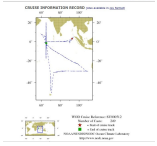
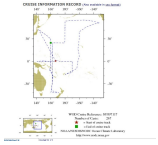
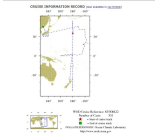
Also referred to as Akademik Pyotr Shirshov.

Note: launches in Jul-Sep 1973 attributed in the WDC Rocket File to the Shirshov, and originally labelled Shirshov Exp. 4 by me, appear to actually be from the Korolev - several sources confirm the CIMO 1973 launches at Kourou were from the Korolev.

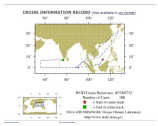
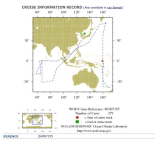
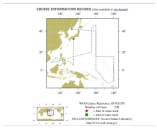
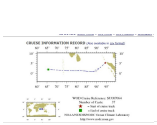
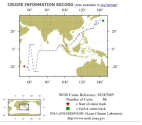
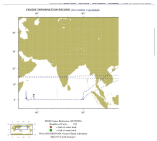
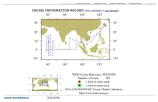
Rockets used: M-100,M-100B

Updated: 2025 Jul 16 0237:13

Cruises: SHIR

LC_Code	Active	Region	Cruise	CruiseMap
GMS68B	1968 Jul 1 - 1968 Sep 30	Indian Ocean	Shirshov? Expedition 1, 1968	-
GMS70C	1970 Nov 1 - 1971 Jan 15	Indian Ocean	Shirshov Expedition 2, 1970-71 (SU000315)	
GMS71A	1971 May 15 - 1971 Jul 15	Indian Ocean	Shirshov Expedition 3, 1971 (SU000302)	-
GMS72A	1972 Jan 1 - 1972 Mar 15	Pacific Ocean	Shirshov Expedition 4, 1972 (SU000396)	
GMS72C	1972 Jul 1 - 1972 Aug 15	Indian Ocean	Shirshov Expedition 5, 1972 (SU000407)	
GMS72D	1972 Dec 15 - 1973 Mar 31	Pacific Ocean	Shirshov Expedition 6, 1972-73 (SU000483)	
GMS73F	1973 Dec 1 - 1974 Mar 15	Pacific Ocean	Shirshov Expedition 7, 1973-74	-
GMS74E	1974 Dec 15 - 1975 Jan 31	Indian Ocean	Shirshov Expedition 8, 1974-75 (SU000512)	
GMS75A	1975 Mar 1 - 1975 Mar 31	Indian Ocean	Shirshov Expedition 9, 1975	-
GMS75E	1975 May 1 - 1975 Jun 30	Indian Ocean	Shirshov Expedition 10, 1975	-
GMS76A	1976 Jan 1 - 1976 Feb 29	Indian Ocean	Shirshov Expedition 11, 1976	-
GMS76J	1976 Oct 20 - 1977 Feb 15	Pacific Ocean	Shirshov Expedition 12, 1976-77 (SU097117)	
GMS78C	1978 Mar 15 - 1978 Mar 31	Pacific Ocean	Shirshov Expedition 13, 1978 (SU008422)	

Cruises: SHIR

LC_Code	Active	Region	Cruise	CruiseMap
GMS79B	1979 Apr 15 - 1979 May 31	Indian Ocean	Shirshov Expedition 14, 1979 (SU000732)	
GMS80B	1980 Feb 15 - 1980 Mar 31	Ontong Java Plateau, Pacific Ocean	Shirshov Expedition 15, 1980 (SU097155)	
GMS80F	1980 Apr 15 - 1980 Jun 15	Indian Ocean	Shirshov Expedition 16, 1980 (SU007155)	-
GMS81C	1981 Jan 15 - 1981 Mar 31	Pacific Ocean	Shirshov Expedition 17, 1981 (SU001350)	
GMS82D	1982 May 15 - 1982 Jul 15	Indian Ocean	Shirshov Expedition 18, 1982 (SU007064/65)	 
GMS83D	1983 Feb 15 - 1983 Mar 31	Indian Ocean, Ninety East Ridge	Shirshov Expedition 19, 1983	-
GMS85C	1985 Oct 15 - 1986 Jan 15	Pacific or Indian Ocean?	Shirshov Expedition 20, 1985-86	-
GMS86A	1986 Apr 15 - 1986 May 31	Pacific or Indian Ocean?	Shirshov Expedition 21, 1986	-
GMS87B	1987 Jan 1 - 1987 Feb 15	Indian Ocean	Shirshov Expedition 22, 1987	
GMS87F	1987 Oct 15 - 1987 Dec 15	Pacific or Indian Ocean?	Shirshov Expedition 23, 1987 (SU097224)	-
GMS88A	1988 Mar 15 - 1988 May 15	Pacific or Indian Ocean?	Shirshiv Expedition 24, 1988	-
GMS89C	1989 Aug 15 - 1989 Oct 31	Pacific or Indian Ocean?	Shirshov Expedition 25, 1989	-
GMS90C	1990 Jan 15 - 1990 Mar 15	Indian Ocean	Shirshov Expedition 26, 1990 (SU016766)	

Updated: 2025 Jul 16 0237:13

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 Jul 09 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9161	-	-	65.0E 20.0S (+/- 5.0)	92.0
1968 Aug 9 0959:59	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9162	-	-	65.0E 20.0S (+/- 5.0)	80.0
1968 Aug 13 1859:59	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	78.0
1968 Aug 14 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	93.0
1968 Aug 14 1800:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Aug 15 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Aug 16 1859:59	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	78.0
1968 Aug 19 1859:59	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9164	-	-	65.0E 20.0S (+/- 5.0)	80.0
1968 Aug 20 2300:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	78.0
1968 Aug 21 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	76.0
1968 Aug 22 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1968 Aug 22 1859:59	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Aug 23 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	92.0
1968 Aug 23 1859:59	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	76.0
1968 Aug 24 1559:59	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Aug 24 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	80.0
1968 Sep 01 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9136	-	-	65.0E 20.0S (+/- 5.0)	91.0
1968 Sep 01 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9136	-	-	65.0E 20.0S (+/- 5.0)	90.0
1968 Sep 2 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9135	-	-	65.0E 20.0S (+/- 5.0)	82.0
1968 Sep 2 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9135	-	-	65.0E 20.0S (+/- 5.0)	78.0
1968 Sep 3 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9135	-	-	65.0E 20.0S (+/- 5.0)	78.0
1968 Sep 4 1859:59	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9135	-	-	65.0E 20.0S (+/- 5.0)	78.0
1968 Sep 5 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9172	-	-	65.0E 20.0S (+/- 5.0)	80.0
1968 Sep 7 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9132	-	-	65.0E 20.0S (+/- 5.0)	80.0
1968 Sep 10 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9171	-	-	65.0E 20.0S (+/- 5.0)	54.0
1968 Sep 10 2300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9171	-	-	65.0E 20.0S (+/- 5.0)	74.0
1968 Sep 12 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9168	-	-	65.0E 20.0S (+/- 5.0)	90.0
1968 Sep 15 1559:59	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9167	-	-	65.0E 20.0S (+/- 5.0)	76.0
1968 Sep 18 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9166	-	-	65.0E 20.0S (+/- 5.0)	93.0
1968 Sep 21 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9165	-	-	65.0E 20.0S (+/- 5.0)	80.0
1968 Sep 21 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9165	-	-	65.0E 20.0S (+/- 5.0)	94.0
1968 Sep 21 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9165	-	-	65.0E 20.0S (+/- 5.0)	76.0
1968 Sep 21 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS68B	M9165	-	-	65.0E 20.0S (+/- 5.0)	96.0
1970 Oct 28 1900:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	92.0
1970 Nov 01 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP1	-	-	70.0E 30.0S (+/- 5.0)	96.0
1970 Nov 07 0100:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	96.0
1970 Nov 20 0000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP2	-	-	70.0E 30.0S (+/- 5.0)	91.0
1970 Nov 22 0000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP3	-	-	70.0E 30.0S (+/- 5.0)	94.0
1970 Nov 23 0100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP4	-	-	70.0E 30.0S (+/- 5.0)	96.0
1970 Nov 24 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP5	-	-	70.0E 30.0S (+/- 5.0)	95.0
1970 Nov 26 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP6	-	-	70.0E 30.0S (+/- 5.0)	93.0
1970 Nov 30 0300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP7	-	-	70.0E 30.0S (+/- 5.0)	92.0
1970 Dec 02 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP8	-	-	70.0E 30.0S (+/- 5.0)	93.0
1970 Dec 02 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP9	-	-	70.0E 30.0S (+/- 5.0)	92.0
1970 Dec 05 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP10	-	-	70.0E 30.0S (+/- 5.0)	93.0
1970 Dec 07 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP11	-	-	70.0E 30.0S (+/- 5.0)	91.0
1970 Dec 17 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP12	-	-	70.0E 30.0S (+/- 5.0)	92.0
1970 Dec 27 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP13	-	-	70.0E 30.0S (+/- 5.0)	88.0
1970 Dec 28 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP13	-	-	70.0E 30.0S (+/- 5.0)	89.0
1970 Dec 28 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP13	-	-	70.0E 30.0S (+/- 5.0)	94.0
1971 Jan 01 2003:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP14	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 Jan 11 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP15	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 Jan 11 2206:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP16	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 Jan 12 0555:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP16	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 Jan 12 1130:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP16	-	-	70.0E 30.0S (+/- 5.0)	90.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971 Jan 12 1657:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP16	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 Jan 12 2030:00	M-100	-	-	SHIR	Akademik Shirshov	GMS70C	LP16	-	-	70.0E 30.0S (+/- 5.0)	90.0
1971 May 17 2048:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP1	-	-	65.0E 0.0N (+/- 5.0)	78.0
1971 May 20 2022:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP2	-	-	65.0E 0.0N (+/- 5.0)	93.0
1971 May 20 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP3	-	-	65.0E 0.0N (+/- 5.0)	88.0
1971 May 22 2030:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP4	-	-	65.0E 0.0N (+/- 5.0)	88.0
1971 May 24 2100:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1971 May 27 2130:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP5	-	-	65.0E 0.0N (+/- 5.0)	85.0
1971 May 29 1734:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP6	-	-	65.0E 0.0N (+/- 5.0)	92.0
1971 Jun 06 1957:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP7	-	-	65.0E 0.0N (+/- 5.0)	87.0
1971 Jun 09 1905:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP8	-	-	65.0E 0.0N (+/- 5.0)	87.0
1971 Jun 10 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP9	-	-	65.0E 0.0N (+/- 5.0)	87.0
1971 Jun 12 1859:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP10	-	-	65.0E 0.0N (+/- 5.0)	87.0
1971 Jun 13 1859:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP11	-	-	65.0E 0.0N (+/- 5.0)	82.0
1971 Jun 14 1853:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP12	-	-	65.0E 0.0N (+/- 5.0)	87.0
1971 Jun 16 1856:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP13	-	-	65.0E 0.0N (+/- 5.0)	90.0
1971 Jun 24 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP14	-	-	65.0E 0.0N (+/- 5.0)	89.0
1971 Jun 26 1707:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP15	-	-	65.0E 0.0N (+/- 5.0)	89.0
1971 Jun 28 2001:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP16	-	-	65.0E 0.0N (+/- 5.0)	88.0
1971 Jun 29 1043:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1971 Jun 30 2003:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP17	-	-	65.0E 0.0N (+/- 5.0)	86.0
1971 Jul 01 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP18	-	-	65.0E 0.0N (+/- 5.0)	90.0
1971 Jul 02 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP19	-	-	65.0E 0.0N (+/- 5.0)	91.0
1971 Jul 03 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP20	-	-	65.0E 0.0N (+/- 5.0)	89.0
1971 Jul 08 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP21	-	-	65.0E 0.0N (+/- 5.0)	91.0
1971 Jul 09 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS71A	LP22	-	-	65.0E 0.0N (+/- 5.0)	90.0
1972 Jan 03 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP1	-	-	150.0W 30.0N (+/- 5.0)	91.0
1972 Jan 04 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP2	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 09 0800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP3	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 11 0800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP4	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 12 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP5	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 13 0800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP6	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 15 0800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP7	-	-	150.0W 30.0N (+/- 5.0)	93.0
1972 Jan 16 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP8	-	-	150.0W 30.0N (+/- 5.0)	93.0
1972 Jan 18 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP9	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jan 30 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP10	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Feb 06 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP11	-	-	150.0W 30.0N (+/- 5.0)	88.0
1972 Feb 08 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP8	-	-	150.0W 30.0N (+/- 5.0)	89.0
1972 Feb 08 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP7	-	-	150.0W 30.0N (+/- 5.0)	89.0
1972 Feb 14 1000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP12	-	-	150.0W 30.0N (+/- 5.0)	87.0
1972 Feb 16 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP13	-	-	150.0W 30.0N (+/- 5.0)	89.0
1972 Feb 17 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP14	-	-	150.0W 30.0N (+/- 5.0)	86.0
1972 Feb 19 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP15	-	-	150.0W 30.0N (+/- 5.0)	91.0
1972 Feb 21 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP16	-	-	150.0W 30.0N (+/- 5.0)	89.0
1972 Feb 22 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP17	-	-	150.0W 30.0N (+/- 5.0)	89.0
1972 Mar 15 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72A	LP18	-	-	150.0W 30.0N (+/- 5.0)	90.0
1972 Jul 01 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP1	-	-	65.0E 0.0N (+/- 5.0)	89.0
1972 Jul 03 2000:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	88.0
1972 Jul 06 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP3	-	-	65.0E 0.0N (+/- 5.0)	83.0
1972 Jul 07 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP4	-	-	65.0E 0.0N (+/- 5.0)	90.0
1972 Jul 08 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	83.0
1972 Jul 09 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP5	-	-	65.0E 0.0N (+/- 5.0)	84.0
1972 Jul 10 1400:00	M-100	-	-	SHIR	Akademik Shirshov	KER	LEC	-	-	70.2E 49.4S (+/- 0.0)	91.0
1972 Jul 13 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP7	-	-	65.0E 0.0N (+/- 5.0)	89.0
1972 Jul 15 1500:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	89.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 Jul 16 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP9	-	-	65.0E 0.0N (+/- 5.0)	90.0
1972 Jul 26 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP10	-	-	65.0E 0.0N (+/- 5.0)	88.0
1972 Jul 31 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP11	-	-	65.0E 0.0N (+/- 5.0)	88.0
1972 Aug 01 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP12	-	-	65.0E 0.0N (+/- 5.0)	89.0
1972 Aug 08 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP13	-	-	65.0E 0.0N (+/- 5.0)	91.0
1972 Aug 09 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP14	-	-	65.0E 0.0N (+/- 5.0)	92.0
1972 Aug 12 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP15	-	-	65.0E 0.0N (+/- 5.0)	88.0
1972 Aug 13 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP13	-	-	65.0E 0.0N (+/- 5.0)	88.0
1972 Aug 14 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72C	LP16	-	-	65.0E 0.0N (+/- 5.0)	91.0
1972 Dec 25 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP1	-	-	165.0E 0.0N (+/- 5.0)	92.0
1972 Dec 27 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP1	-	-	165.0E 0.0N (+/- 5.0)	92.0
1972 Dec 28 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP2	-	-	165.0E 0.0N (+/- 5.0)	85.0
1972 Dec 29 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP3	-	-	165.0E 0.0N (+/- 5.0)	83.0
1972 Dec 30 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP4	-	-	165.0E 0.0N (+/- 5.0)	87.0
1973 Jan 01 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP5	-	-	165.0E 0.0N (+/- 5.0)	86.0
1973 Jan 02 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP6	-	-	165.0E 0.0N (+/- 5.0)	91.0
1973 Jan 04 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP7	-	-	165.0E 0.0N (+/- 5.0)	81.0
1973 Jan 04 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP8	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Jan 05 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP9	-	-	165.0E 0.0N (+/- 5.0)	86.0
1973 Jan 06 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP10	-	-	165.0E 0.0N (+/- 5.0)	87.0
1973 Jan 06 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP10	-	-	165.0E 0.0N (+/- 5.0)	86.0
1973 Jan 24 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP8	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Jan 26 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP11	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Jan 26 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP11	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Jan 28 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP12	-	-	165.0E 0.0N (+/- 5.0)	90.0
1973 Jan 28 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP12	-	-	165.0E 0.0N (+/- 5.0)	87.0
1973 Jan 31 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP13	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Jan 31 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP13	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Feb 03 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP14	-	-	165.0E 0.0N (+/- 5.0)	83.0
1973 Feb 21 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP9	-	-	165.0E 0.0N (+/- 5.0)	85.0
1973 Feb 23 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP9	-	-	165.0E 0.0N (+/- 5.0)	84.0
1973 Mar 06 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP10	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Mar 07 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP9	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Mar 08 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP15	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Mar 09 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP16	-	-	165.0E 0.0N (+/- 5.0)	90.0
1973 Mar 10 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP17	-	-	165.0E 0.0N (+/- 5.0)	92.0
1973 Mar 12 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP18	-	-	165.0E 0.0N (+/- 5.0)	86.0
1973 Mar 14 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP19	-	-	165.0E 0.0N (+/- 5.0)	86.0
1973 Mar 15 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP20	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Mar 19 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP21	-	-	165.0E 0.0N (+/- 5.0)	88.0
1973 Mar 20 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS72D	LP22	-	-	165.0E 0.0N (+/- 5.0)	89.0
1973 Dec 12 1220:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP1	-	-	180.0E 0.0N (+/- 5.0)	87.0
1973 Dec 17 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP2	-	-	180.0E 0.0N (+/- 5.0)	82.0
1973 Dec 19 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP3	-	-	180.0E 0.0N (+/- 5.0)	82.0
1973 Dec 23 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP4	-	-	180.0E 0.0N (+/- 5.0)	84.0
1973 Dec 24 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP5	-	-	180.0E 0.0N (+/- 5.0)	91.0
1973 Dec 25 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP6	-	-	180.0E 0.0N (+/- 5.0)	89.0
1974 Jan 26 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP7	-	-	180.0E 0.0N (+/- 5.0)	85.0
1974 Jan 29 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP8	-	-	180.0E 0.0N (+/- 5.0)	81.0
1974 Feb 03 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP9	-	-	180.0E 0.0N (+/- 5.0)	86.0
1974 Feb 06 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP10	-	-	180.0E 0.0N (+/- 5.0)	87.0
1974 Feb 09 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP11	-	-	180.0E 0.0N (+/- 5.0)	86.0
1974 Feb 11 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP12	-	-	180.0E 0.0N (+/- 5.0)	88.0
1974 Feb 13 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP13	-	-	180.0E 0.0N (+/- 5.0)	89.0
1974 Feb 14 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP14	-	-	180.0E 0.0N (+/- 5.0)	87.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Feb 26 2000:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	85.0
1974 Feb 28 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP16	-	-	180.0E 0.0N (+/- 5.0)	92.0
1974 Mar 01 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS73F	LP17	-	-	180.0E 0.0N (+/- 5.0)	89.0
1974 Dec 22 2300:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1974 Dec 25 0000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP2	-	-	65.0E 0.0N (+/- 5.0)	86.0
1974 Dec 28 0000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP3	-	-	65.0E 0.0N (+/- 5.0)	91.0
1975 Jan 04 1900:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	92.0
1975 Jan 10 1930:00	M-100	Indian Ocean?	-	SHIR	Akademik Shirshov	GMS74E	LP5	-	-	65.0E 0.0N (+/- 5.0)	80.0
1975 Jan 11 1930:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP6	-	-	65.0E 0.0N (+/- 5.0)	81.0
1975 Jan 12 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP7	-	-	65.0E 0.0N (+/- 5.0)	83.0
1975 Jan 13 2050:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1975 Jan 14 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP8	-	-	65.0E 0.0N (+/- 5.0)	89.0
1975 Jan 15 1950:00	M-100	-	-	SHIR	Akademik Shirshov	GMS74E	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1975 Jan 16 2000:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1975 Mar 01 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP1	-	-	70.0E 30.0S (+/- 5.0)	91.0
1975 Mar 03 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP2	-	-	70.0E 30.0S (+/- 5.0)	89.0
1975 Mar 03 1720:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP2	-	-	70.0E 30.0S (+/- 5.0)	88.0
1975 Mar 06 1820:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP3	-	-	70.0E 30.0S (+/- 5.0)	83.0
1975 Mar 07 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP4	-	-	70.0E 30.0S (+/- 5.0)	86.0
1975 Mar 07 1940:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP4	-	-	70.0E 30.0S (+/- 5.0)	89.0
1975 Mar 11 1650:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP5	-	-	70.0E 30.0S (+/- 5.0)	82.0
1975 Mar 13 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP6	-	-	70.0E 30.0S (+/- 5.0)	89.0
1975 Mar 14 1820:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP7	-	-	70.0E 30.0S (+/- 5.0)	89.0
1975 Mar 15 1550:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP8	-	-	70.0E 30.0S (+/- 5.0)	87.0
1975 Mar 16 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP9	-	-	70.0E 30.0S (+/- 5.0)	87.0
1975 Mar 19 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	88.0
1975 Mar 20 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP11	-	-	70.0E 30.0S (+/- 5.0)	87.0
1975 Mar 22 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75A	LP12	-	-	70.0E 30.0S (+/- 5.0)	89.0
1975 May 08 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP1	-	-	65.0E 0.0N (+/- 5.0)	88.0
1975 May 17 1830:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP2	-	-	65.0E 0.0N (+/- 5.0)	81.0
1975 May 17 2040:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP2	-	-	65.0E 0.0N (+/- 5.0)	79.0
1975 May 25 2040:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	86.0
1975 May 29 1820:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1975 Jun 06 1930:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	81.0
1975 Jun 07 2110:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP5	-	-	65.0E 0.0N (+/- 5.0)	90.0
1975 Jun 08 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1975 Jun 10 0800:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	86.0
1975 Jun 11 1830:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP7	-	-	65.0E 0.0N (+/- 5.0)	89.0
1975 Jun 12 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP8	-	-	65.0E 0.0N (+/- 5.0)	90.0
1975 Jun 13 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP9	-	-	65.0E 0.0N (+/- 5.0)	87.0
1975 Jun 14 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS75E	LP10	-	-	65.0E 0.0N (+/- 5.0)	83.0
1975 Jun 17 1900:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	86.0
1975 Jun 21 1500:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	86.0
1976 Jan 05 1500:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	78.0
1976 Jan 07 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP2	-	-	65.0E 0.0N (+/- 5.0)	82.0
1976 Jan 09 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	92.0
1976 Jan 10 1700:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Jan 11 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP4	-	-	65.0E 0.0N (+/- 5.0)	92.0
1976 Jan 16 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP5	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Jan 18 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP6	-	-	65.0E 0.0N (+/- 5.0)	86.0
1976 Jan 19 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Jan 24 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP8	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Jan 29 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	90.0
1976 Jan 31 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1976 Jan 31 1800:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	88.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Feb 01 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP11	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Feb 02 1600:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	85.0
1976 Feb 02 1800:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	91.0
1976 Feb 03 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP13	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Feb 05 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP14	-	-	65.0E 0.0N (+/- 5.0)	84.0
1976 Feb 05 2230:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP15	-	-	65.0E 0.0N (+/- 5.0)	88.0
1976 Feb 06 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP16	-	-	65.0E 0.0N (+/- 5.0)	91.0
1976 Feb 07 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP17	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Feb 07 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP17	-	-	65.0E 0.0N (+/- 5.0)	98.0
1976 Feb 08 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP18	-	-	65.0E 0.0N (+/- 5.0)	87.0
1976 Feb 09 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP19	-	-	65.0E 0.0N (+/- 5.0)	88.0
1976 Feb 09 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP19	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Feb 11 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP20	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Feb 13 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP21	-	-	65.0E 0.0N (+/- 5.0)	90.0
1976 Feb 14 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP22	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Feb 15 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP23	-	-	65.0E 0.0N (+/- 5.0)	89.0
1976 Feb 16 1500:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	89.0
1976 Feb 19 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76A	LP24	-	-	65.0E 0.0N (+/- 5.0)	91.0
1976 Feb 21 1400:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	91.0
1976 Oct 20 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP1	-	-	160.0W 30.0N (+/- 5.0)	78.0
1976 Oct 22 1140:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP2	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Oct 24 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP3	-	-	160.0W 30.0N (+/- 5.0)	76.0
1976 Oct 26 1320:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP4	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Oct 27 1200:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	85.0
1976 Oct 28 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP6	-	-	160.0W 30.0N (+/- 5.0)	76.0
1976 Oct 30 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP7	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Nov 02 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP8	-	-	160.0W 30.0N (+/- 5.0)	80.0
1976 Nov 06 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP9	-	-	160.0W 30.0N (+/- 5.0)	83.0
1976 Nov 16 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP9	-	-	160.0W 30.0N (+/- 5.0)	80.0
1976 Nov 18 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP10	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Nov 22 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP11	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Nov 25 1100:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	77.0
1976 Nov 27 1400:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	81.0
1976 Dec 06 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP12	-	-	160.0W 30.0N (+/- 5.0)	93.0
1976 Dec 09 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP13	-	-	160.0W 30.0N (+/- 5.0)	85.0
1976 Dec 12 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP14	-	-	160.0W 30.0N (+/- 5.0)	80.0
1976 Dec 12 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP14	-	-	160.0W 30.0N (+/- 5.0)	82.0
1976 Dec 13 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP15	-	-	160.0W 30.0N (+/- 5.0)	82.0
1976 Dec 25 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP16	-	-	160.0W 30.0N (+/- 5.0)	87.0
1976 Dec 28 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP17	-	-	160.0W 30.0N (+/- 5.0)	88.0
1976 Dec 28 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP17	-	-	160.0W 30.0N (+/- 5.0)	84.0
1976 Dec 30 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP18	-	-	160.0W 30.0N (+/- 5.0)	84.0
1977 Jan 01 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP19	-	-	160.0W 30.0N (+/- 5.0)	85.0
1977 Jan 03 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP20	-	-	160.0W 30.0N (+/- 5.0)	87.0
1977 Jan 05 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP21	-	-	160.0W 30.0N (+/- 5.0)	86.0
1977 Jan 20 0700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP22	-	-	160.0W 30.0N (+/- 5.0)	87.0
1977 Jan 23 0700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP23	-	-	160.0W 30.0N (+/- 5.0)	84.0
1977 Jan 24 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP24	-	-	160.0W 30.0N (+/- 5.0)	87.0
1977 Feb 03 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP25	-	-	160.0W 30.0N (+/- 5.0)	84.0
1977 Feb 03 1000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP25	-	-	160.0W 30.0N (+/- 5.0)	82.0
1977 Feb 04 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP1	-	-	160.0W 30.0N (+/- 5.0)	85.0
1977 Feb 04 1000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP1	-	-	160.0W 30.0N (+/- 5.0)	86.0
1977 Feb 06 0900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP26	-	-	160.0W 30.0N (+/- 5.0)	84.0
1977 Feb 06 1000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS76J	LP26	-	-	160.0W 30.0N (+/- 5.0)	86.0
1978 Mar 19 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS78C	LP1	-	-	160.0E 0.0N (+/- 5.0)	88.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Mar 26 1100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS78C	LP2	-	-	160.0E 0.0N (+/- 5.0)	92.0
1978 Mar 26 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS78C	LP2	-	-	160.0E 0.0N (+/- 5.0)	87.0
1978 Mar 30 1300:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	88.0
1978 Mar 30 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS78C	LP4	-	-	160.0E 0.0N (+/- 5.0)	83.0
1979 Apr 21 1202:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP1	-	-	54.0E 0.0N (+/- 5.0)	78.0
1979 Apr 24 1139:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP2	-	-	54.0E 0.0N (+/- 5.0)	84.0
1979 Apr 27 1222:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP3	-	-	54.0E 0.0N (+/- 5.0)	84.0
1979 May 02 0325:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP4	-	-	54.0E 0.0N (+/- 5.0)	90.0
1979 May 16 1324:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP5	-	-	54.0E 0.0N (+/- 5.0)	82.0
1979 May 18 1324:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP6	-	-	54.0E 0.0N (+/- 5.0)	83.0
1979 May 21 1325:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	84.0
1979 May 23 1432:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	78.0
1979 May 25 1323:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	85.0
1979 May 27 0315:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	79.0
1979 May 28 0211:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	83.0
1979 May 28 0316:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS79B	LP7	-	-	54.0E 0.0N (+/- 5.0)	79.0
1980 Feb 25 1400:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	81.0
1980 Feb 25 1500:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 25 1630:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 25 1800:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 26 1440:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	80.0
1980 Feb 26 1600:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	87.0
1980 Feb 26 1730:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	85.0
1980 Feb 26 1840:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	82.0
1980 Feb 27 1440:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	86.0
1980 Feb 27 1540:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 28 1420:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 28 1540:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	85.0
1980 Feb 28 1700:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 28 1820:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 29 1100:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	87.0
1980 Feb 29 1340:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 29 1400:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 29 1500:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Mar 07 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80B	LP1	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Mar 23 1500:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Mar 26 1520:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80B	LP2	-	-	160.0E 0.0N (+/- 1.0)	79.0
1980 Mar 29 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80B	LP3	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Mar 30 1420:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80B	LP4	-	-	160.0E 0.0N (+/- 1.0)	81.0
1980 Apr 29 1600:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1980 Apr 29 1730:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1980 May 01 1630:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP2	-	-	67.0E 0.0N (+/- 5.0)	81.0
1980 May 06 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP3	-	-	67.0E 0.0N (+/- 5.0)	84.0
1980 May 06 2210:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP3	-	-	67.0E 0.0N (+/- 5.0)	82.0
1980 May 07 2140:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP4	-	-	67.0E 0.0N (+/- 5.0)	84.0
1980 May 08 2240:00	M-100	-	-	SHIR	Akademik Shirshov	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	83.0
1980 May 09 2210:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP6	-	-	67.0E 0.0N (+/- 5.0)	83.0
1980 May 19 2130:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP7	-	-	67.0E 0.0N (+/- 5.0)	86.0
1980 May 20 2130:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP8	-	-	67.0E 0.0N (+/- 5.0)	85.0
1980 May 21 2130:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP9	-	-	67.0E 0.0N (+/- 5.0)	85.0
1980 May 22 2240:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP10	-	-	67.0E 0.0N (+/- 5.0)	82.0
1980 May 23 2120:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP11	-	-	67.0E 0.0N (+/- 5.0)	79.0
1980 May 24 2030:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP12	-	-	67.0E 0.0N (+/- 5.0)	82.0
1980 May 25 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP13	-	-	67.0E 0.0N (+/- 5.0)	82.0
1980 May 26 1930:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP14	-	-	67.0E 0.0N (+/- 5.0)	83.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980 May 27 1800:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP15	-	-	67.0E 0.0N (+/- 5.0)	84.0
1980 May 27 1920:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP15	-	-	67.0E 0.0N (+/- 5.0)	79.0
1980 May 30 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP16	-	-	67.0E 0.0N (+/- 5.0)	83.0
1980 Jun 01 1730:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP17	-	-	67.0E 0.0N (+/- 5.0)	84.0
1980 Jun 04 1830:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP18	-	-	67.0E 0.0N (+/- 5.0)	85.0
1980 Jun 05 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP19	-	-	67.0E 0.0N (+/- 5.0)	84.0
1980 Jun 06 2120:00	M-100	-	-	SHIR	Akademik Shirshov	GMS80F	LP20	-	-	67.0E 0.0N (+/- 5.0)	85.0
1981 Jan 24 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP1	-	-	180.0E 0.0N (+/- 5.0)	92.0
1981 Jan 26 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP2	-	-	180.0E 0.0N (+/- 5.0)	67.0
1981 Feb 02 1240:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP3	-	-	180.0E 0.0N (+/- 5.0)	90.0
1981 Feb 03 1300:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP4	-	-	180.0E 0.0N (+/- 5.0)	90.0
1981 Feb 04 1400:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP5	-	-	180.0E 0.0N (+/- 5.0)	87.0
1981 Feb 15 1330:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP6	-	-	180.0E 0.0N (+/- 5.0)	84.0
1981 Feb 17 1330:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1981 Feb 17 1440:00	M-100	-	-	SHIR	Akademik Shirshov	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1981 Feb 18 1330:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP7	-	-	180.0E 0.0N (+/- 5.0)	83.0
1981 Feb 18 1440:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP7	-	-	180.0E 0.0N (+/- 5.0)	83.0
1981 Feb 21 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP8	-	-	180.0E 0.0N (+/- 5.0)	80.0
1981 Feb 23 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP9	-	-	180.0E 0.0N (+/- 5.0)	81.0
1981 Feb 24 1350:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP10	-	-	180.0E 0.0N (+/- 5.0)	87.0
1981 Feb 25 1500:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP11	-	-	180.0E 0.0N (+/- 5.0)	90.0
1981 Mar 03 1740:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP12	-	-	180.0E 0.0N (+/- 5.0)	77.0
1981 Mar 04 1640:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP13	-	-	180.0E 0.0N (+/- 5.0)	89.0
1981 Mar 07 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP14	-	-	180.0E 0.0N (+/- 5.0)	82.0
1981 Mar 07 1700:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP14	-	-	180.0E 0.0N (+/- 5.0)	77.0
1981 Mar 28 1600:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	83.0
1981 Mar 28 1720:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	80.0
1981 Mar 28 1830:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	84.0
1981 Mar 29 1630:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	81.0
1981 Mar 29 1740:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	87.0
1981 Mar 29 1850:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	85.0
1981 Mar 30 1620:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	87.0
1981 Mar 30 1730:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	86.0
1981 Mar 30 1833:00	M-100	-	-	SHIR	Akademik Shirshov	GMS81C	LP15	-	-	180.0E 0.0N (+/- 5.0)	83.0
1982 May 30 1930:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	79.0
1982 May 30 2045:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP2	-	-	65.0E 0.0N (+/- 5.0)	84.0
1982 May 31 2030:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP3	-	-	65.0E 0.0N (+/- 5.0)	80.0
1982 Jun 01 1200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP4	-	-	65.0E 0.0N (+/- 5.0)	84.0
1982 Jun 02 2125:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP5	-	-	65.0E 0.0N (+/- 5.0)	83.0
1982 Jun 25 2100:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP6	-	-	65.0E 0.0N (+/- 5.0)	86.0
1982 Jul 01 2230:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP7	-	-	65.0E 0.0N (+/- 5.0)	80.0
1982 Jul 02 2207:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP8	-	-	65.0E 0.0N (+/- 5.0)	90.0
1982 Jul 03 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP9	-	-	65.0E 0.0N (+/- 5.0)	85.0
1982 Jul 04 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP10	-	-	65.0E 0.0N (+/- 5.0)	87.0
1982 Jul 05 2210:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP11	-	-	65.0E 0.0N (+/- 5.0)	89.0
1982 Jul 06 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP12	-	-	65.0E 0.0N (+/- 5.0)	85.0
1982 Jul 07 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP13	-	-	65.0E 0.0N (+/- 5.0)	84.0
1982 Jul 08 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP14	-	-	65.0E 0.0N (+/- 5.0)	80.0
1982 Jul 09 2200:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP15	-	-	65.0E 0.0N (+/- 5.0)	82.0
1982 Jul 10 2150:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP16	-	-	65.0E 0.0N (+/- 5.0)	85.0
1982 Jul 11 2000:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP17	-	-	65.0E 0.0N (+/- 5.0)	83.0
1982 Jul 12 1900:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP18	-	-	65.0E 0.0N (+/- 5.0)	83.0
1982 Jul 13 1930:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP19	-	-	65.0E 0.0N (+/- 5.0)	90.0
1982 Jul 14 1930:00	M-100	-	-	SHIR	Akademik Shirshov	GMS82D	LP20	-	-	65.0E 0.0N (+/- 5.0)	85.0
1983 Feb 21 1900:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	91.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1983 Feb 22 1845:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	71.0
1983 Feb 23 2030:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1983 Feb 24 1845:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1983 Feb 25 1840:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	87.0
1983 Feb 26 1850:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1983 Feb 27 1845:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Feb 28 1852:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1983 Mar 01 1930:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 02 1900:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1983 Mar 03 1900:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 04 1840:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1983 Mar 05 1850:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1983 Mar 06 1850:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1983 Mar 07 1850:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 08 2000:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	90.0
1983 Mar 09 1830:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1983 Mar 10 1835:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 11 1830:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 12 1840:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	63.0
1983 Mar 13 1825:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 14 1830:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	87.0
1983 Mar 15 1830:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1983 Mar 16 1900:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1983 Mar 17 1825:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	90.0
1983 Mar 18 1800:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1983 Mar 19 2010:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Mar 20 1850:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1983 Mar 21 1950:00	M-100	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1985 Oct 30 1426:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	84.0
1985 Nov 04 1438:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	86.0
1985 Nov 05 1433:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	79.0
1985 Nov 08 1421:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	87.0
1985 Nov 25 1400:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	87.0
1985 Nov 25 1522:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	86.0
1985 Nov 28 1240:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	71.0
1985 Nov 29 0730:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	79.0
1985 Nov 29 1400:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	84.0
1985 Nov 29 1510:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	85.0
1985 Dec 01 1129:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	77.0
1985 Dec 03 0930:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	84.0
1985 Dec 03 1530:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	71.0
1985 Dec 03 1650:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	90.0
1985 Dec 05 1030:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	87.0
1985 Dec 05 1633:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	85.0
1985 Dec 05 1740:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	83.0
1985 Dec 15 0930:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	83.0
1985 Dec 15 1602:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	85.0
1985 Dec 15 1716:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	89.0
1986 Jan 04 1030:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	86.0
1986 Jan 04 1655:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	75.0
1986 Jan 04 1831:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	80.0
1986 Jan 04 2015:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS85C	ULP1	-	-	-	80.0
1986 Apr 27 0900:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	79.0
1986 Apr 27 1020:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	82.0
1986 Apr 29 0840:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	80.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1986 Apr 29 0946:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	84.0
1986 May 02 0756:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	87.0
1986 May 02 0906:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	85.0
1986 May 04 0756:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	86.0
1986 May 04 0900:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	86.0
1986 May 22 0909:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	86.0
1986 May 22 1036:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	85.0
1986 May 25 0800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	85.0
1986 May 25 0900:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	80.0
1986 May 27 0720:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	82.0
1986 May 28 0703:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	84.0
1986 May 28 0900:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	86.0
1986 May 29 0806:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	81.0
1986 May 29 0935:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	82.0
1986 May 30 0649:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS86A	ULP1	-	-	-	80.0
1987 Jan 03 1500:00	M-100B	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	77.0
1987 Jan 04 0732:00	M-100B	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	86.0
1987 Jan 04 1458:00	M-100B	-	-	SHIR	Akademik Shirshov	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1987 Jan 06 1500:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP1	-	-	90.0E 0.0N (+/- 5.0)	84.0
1987 Jan 07 1457:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP2	-	-	90.0E 0.0N (+/- 5.0)	85.0
1987 Jan 12 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP3	-	-	90.0E 0.0N (+/- 5.0)	85.0
1987 Jan 13 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP4	-	-	90.0E 0.0N (+/- 5.0)	90.0
1987 Jan 13 2100:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP5	-	-	90.0E 0.0N (+/- 5.0)	81.0
1987 Jan 14 1755:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP6	-	-	90.0E 0.0N (+/- 5.0)	81.0
1987 Jan 15 1755:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP7	-	-	90.0E 0.0N (+/- 5.0)	83.0
1987 Jan 16 1759:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP8	-	-	90.0E 0.0N (+/- 5.0)	81.0
1987 Jan 17 1700:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87B	LP9	-	-	90.0E 0.0N (+/- 5.0)	82.0
1987 Jan 22 1757:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	85.0
1987 Jan 22 2027:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	85.0
1987 Jan 24 2000:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	83.0
1987 Jan 25 1802:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	82.0
1987 Jan 26 1905:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	85.0
1987 Jan 28 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	82.0
1987 Jan 29 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	81.0
1987 Jan 30 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	82.0
1987 Jan 30 1806:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	81.0
1987 Jan 31 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	88.0
1987 Feb 01 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	83.0
1987 Feb 02 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	85.0
1987 Feb 03 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	84.0
1987 Feb 04 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	82.0
1987 Feb 05 1904:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	84.0
1987 Feb 06 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	SOMAP	-	-	-	53.0E 1.0N (+/- 1.0)	83.0
1987 Oct 22 1200:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	78.0
1987 Oct 23 1200:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	78.0
1987 Oct 24 1100:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	85.0
1987 Oct 26 1001:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	83.0
1987 Oct 27 1204:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	80.0
1987 Oct 28 1144:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	77.0
1987 Nov 13 1258:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	81.0
1987 Nov 14 1234:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	78.0
1987 Nov 15 1218:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	84.0
1987 Nov 21 1122:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	74.0
1987 Nov 23 1044:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	85.0
1987 Nov 29 0907:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	83.0

Launches: SHIR

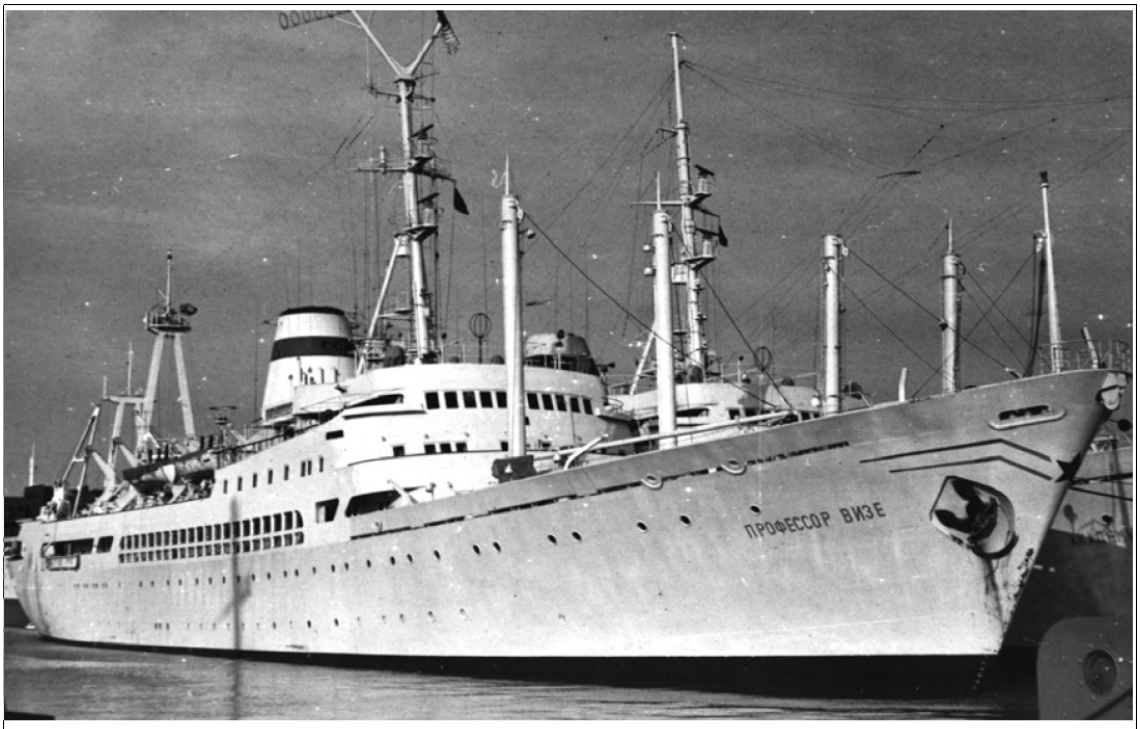
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1987 Nov 30 0705:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	82.0
1987 Dec 01 0902:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	83.0
1987 Dec 02 0911:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	79.0
1987 Dec 07 1005:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	76.0
1987 Dec 09 1017:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS87F	ULP1	-	-	-	79.0
1988 Mar 18 1519:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	84.0
1988 Mar 18 1634:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	80.0
1988 Mar 20 1624:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	74.0
1988 Mar 22 1541:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	85.0
1988 Mar 23 1551:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	85.0
1988 Mar 31 1651:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	82.0
1988 Apr 05 1620:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	80.0
1988 Apr 06 1602:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	80.0
1988 Apr 07 1604:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	77.0
1988 Apr 11 1554:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	76.0
1988 Apr 12 1615:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	81.0
1988 Apr 27 1609:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	79.0
1988 Apr 30 1200:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	86.0
1988 May 02 1430:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	77.0
1988 May 03 1358:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	78.0
1988 May 04 1400:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS88A	ULP1	-	-	-	77.0
1989 Aug 26 1701:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	83.0
1989 Aug 27 0650:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	83.0
1989 Aug 29 1635:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	69.0
1989 Aug 29 1845:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	87.0
1989 Aug 31 1600:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	81.0
1989 Sep 01 0700:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0
1989 Sep 01 1600:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	81.0
1989 Sep 01 1727:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0
1989 Sep 01 1900:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	81.0
1989 Sep 05 1851:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	78.0
1989 Sep 08 1630:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	91.0
1989 Sep 11 0620:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0
1989 Sep 11 1600:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	84.0
1989 Sep 11 1745:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	83.0
1989 Sep 11 2015:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	71.0
1989 Oct 05 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	85.0
1989 Oct 05 1802:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	85.0
1989 Oct 09 1655:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	64.0
1989 Oct 09 1655:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	64.0
1989 Oct 09 1814:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0
1989 Oct 11 0700:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	95.0
1989 Oct 11 0701:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	95.0
1989 Oct 11 1700:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	84.0
1989 Oct 12 1405:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	93.0
1989 Oct 12 1405:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	93.0
1989 Oct 12 1705:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0
1989 Oct 12 1807:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	86.0
1989 Oct 15 1655:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	74.0
1989 Oct 15 1836:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	84.0
1989 Oct 18 1730:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	81.0
1989 Oct 20 1802:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	83.0
1989 Oct 20 2050:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	88.0
1989 Oct 20 2050:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	88.0
1989 Oct 21 1928:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	82.0

Launches: SHIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Oct 21 1928:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	87.0
1989 Oct 23 0500:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	90.0
1989 Oct 23 1652:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	84.0
1989 Oct 23 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	90.0
1989 Oct 26 1800:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS89C	ULP1	-	-	-	78.0
1990 Jan 31 0445:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	66.0
1990 Jan 31 0707:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	60.0
1990 Jan 31 1125:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	60.0
1990 Jan 31 1453:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	55.0
1990 Jan 31 1853:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	76.0
1990 Jan 31 2320:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP1	-	-	65.0E 6.0N (+/- 5.0)	60.0
1990 Feb 21 0254:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	75.0
1990 Feb 21 0652:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	67.0
1990 Feb 21 1053:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	70.0
1990 Feb 21 1457:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	67.0
1990 Feb 21 1855:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	72.0
1990 Feb 22 0032:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP2	-	-	65.0E 6.0N (+/- 5.0)	72.0
1990 Mar 11 0303:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	55.0
1990 Mar 11 0409:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	60.0
1990 Mar 11 0703:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	77.0
1990 Mar 11 1055:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	76.0
1990 Mar 11 1455:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	77.0
1990 Mar 11 1857:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	72.0
1990 Mar 11 2255:00	M-100B	-	-	SHIR	Akademik Shirshov	GMS90C	LP3	-	-	65.0E 6.0N (+/- 5.0)	75.0

IV.1.3.11 Professor Vize

Профессор Визе



R/V Professor Vize, built in 1968 (AARI)

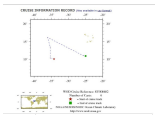
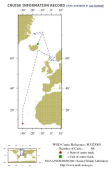
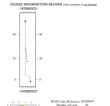
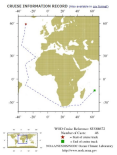
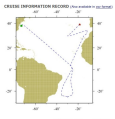
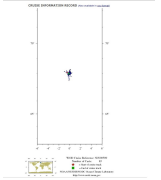
Credit: Unknown

GMS SSSR research ship operated by Arctic and Antarctic Research Inst., Leningrad. Built 1966. IMO 6707674. Mass: 5714 tons

Rockets used: MR-12,MR-20

Updated: 2025 Jul 16 0237:13

Cruises: VIZE

LC_Code	Active	Region	Cruise	CruiseMap
GMS68A	1968 May 1 - 1968 May 31	Atlantic Ocean	Vise Expedition 1, 1968 (SU008482)	
GMS70B	1970 Jul 1 - 1970 Aug 15	Atlantic Ocean	Vize Expedition 2, 1970 (SU023005)	
GMS73C	1973 Jun 12 - 1973 Sep 1	Atlantic Ocean	Vize Expedition 3, 1973 (SU008487)	
GMS76F	1976 Aug 1 - 1976 Nov 30	Atlantic Ocean	Vize Expedition 4, 1976 (SU008672)	
GMS77F	1977 May 1 - 1977 Jul 31	Atlantic Ocean	Vize Expedition 5, 1977	-
GMS78A	1978 Mar 1 - 1978 Jul 31	Atlantic Ocean	Vize Expedition 6, 1978 (SU017921)	
GMS82A	1982 Feb 1 - 1982 May 31	Atlantic Ocean	Vize Expedition 7, 1982 (SU008509)	
GMS83B	1983 Aug 1 - 1983 Oct 31	Atlantic Ocean	Vize Expedition 8, 1983	-
GMS86B	1986 Jun 1 - 1986 Aug 31	Atlantic Ocean	Vize Expedition 9, 1986	-
GMS88C	1988 Jul 1 - 1988 Dec 31	Japan Sea/Chukotsk Sea	Vize Expedition 10, 1988	-

Updated: 2025 Jul 16 0237:13

Launches: VIZE

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 May 9 0730	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP1	-	-	20.0W 10.0N (+/- 5.0)	162.0
1968 May 11 0100	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP2	-	-	20.0W 10.0N (+/- 5.0)	167.0
1968 May 11 1300	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP3	-	-	20.0W 10.0N (+/- 5.0)	167.0
1968 May 12 1315	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP4	-	-	20.0W 10.0N (+/- 5.0)	171.0
1968 May 16 1833	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP5	-	-	20.0W 10.0N (+/- 5.0)	168.0
1968 May 17 1825	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP6	-	-	20.0W 10.0N (+/- 5.0)	159.0
1968 May 18 1805	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP7	-	-	20.0W 10.0N (+/- 5.0)	167.0
1968 May 21 1400	MR-12	MX6407P	-	VIZE	Professor Vize	GMS68A	LP8	-	-	20.0W 10.0N (+/- 5.0)	174.0
1968 May 21 2009	MR-12	-	-	VIZE	Professor Vize	GMS68A	LP9	-	-	20.0W 10.0N (+/- 5.0)	167.0
1968 May 22 0050	MR-12	MX6407P	-	VIZE	Professor Vize	GMS68A	LP10	-	-	20.0W 10.0N (+/- 5.0)	169.0
1970 Jul 14 0704:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP1	-	-	30.0W 5.0N (+/- 5.0)	171.0
1970 Jul 23 1225:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP2	-	-	30.0W 5.0N (+/- 5.0)	167.0
1970 Jul 24 1640:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP3	-	-	30.0W 5.0N (+/- 5.0)	180.0
1970 Jul 25 1403:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP4	-	-	30.0W 5.0N (+/- 5.0)	150.0
1970 Jul 26 1301:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP5	-	-	30.0W 5.0N (+/- 5.0)	158.0
1970 Jul 26 1720:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP6	-	-	30.0W 5.0N (+/- 5.0)	158.0
1970 Jul 26 1949:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP7	-	-	30.0W 5.0N (+/- 5.0)	180.0
1970 Jul 30 0821:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP8	-	-	30.0W 5.0N (+/- 5.0)	160.0
1970 Jul 30 1426:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP9	-	-	30.0W 5.0N (+/- 5.0)	159.0
1970 Aug 04 0431:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP10	-	-	30.0W 5.0N (+/- 5.0)	165.0
1970 Aug 04 1718:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP11	-	-	30.0W 5.0N (+/- 5.0)	158.0
1970 Aug 05 0820:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP12	-	-	30.0W 5.0N (+/- 5.0)	149.0
1970 Aug 05 1630:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP13	-	-	30.0W 5.0N (+/- 5.0)	149.0
1970 Aug 10 0612:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP14	-	-	30.0W 5.0N (+/- 5.0)	158.0
1970 Aug 10 1637:00	MR-12	-	-	VIZE	Professor Vize	GMS70B	LP15	-	-	30.0W 5.0N (+/- 5.0)	150.0
1973 Jun 12 0801	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP1	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 12 1917	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP2	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 13 1407	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP3	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 14 0312	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP4	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 14 0759	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP5	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 29 1019	MR-12	Eclipse control	-	VIZE	Professor Vize	GMS73C	LP6	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 30 1014:38	MR-12	Eclipse	-	VIZE	Professor Vize	GMS73C	LP6	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jun 30 1305	MR-12	Eclipse control	-	VIZE	Professor Vize	GMS73C	LP6	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Jul 1 1015:00	MR-12	Eclipse control	-	VIZE	Professor Vize	GMS73C	LP6	-	-	30.0W 50.0N (+/- 5.0)	175.0
1973 Jul 12 1449:00	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP7	-	-	30.0W 50.0N (+/- 5.0)	175.0
1973 Jul 19 2121:00	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP8	-	-	30.0W 50.0N (+/- 5.0)	175.0
1973 Jul 20 0648:00	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP9	-	-	30.0W 50.0N (+/- 5.0)	175.0
1973 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1973 Aug	MR-12	-	-	VIZE	Professor Vize	GMS73C	LP10	-	-	30.0W 50.0N (+/- 5.0)	150.0
1976 Aug	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0

Launches: VIZE

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP1	-	-	35.0W 60.0N (+/- 5.0)	150.0
1976 Nov?	MR-12	-	-	VIZE	Professor Vize	GMS76F	LP2	-	-	35.0W 60.0N (+/- 5.0)	150.0
1977 May	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 May?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1977 Jul	MR-12	-	-	VIZE	Professor Vize	GMS77F	ULP1	-	-	60.0W 20.0N (+/- 5.0)	150.0
1978 Mar	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP1	-	-	75.0W 38.0N (+/- 5.0)	150.0
1978 Apr 07 1045:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP2	-	-	75.0W 38.0N (+/- 5.0)	178.0
1978 Apr 19 1035:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP3	-	-	75.0W 38.0N (+/- 5.0)	161.0
1978 Apr 19 1537:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP3	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 Apr 21 0529:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP4	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 Apr 21 0626:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP4	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 Apr 21 0752:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP4	-	-	75.0W 38.0N (+/- 5.0)	150.0
1978 Apr 21 1740:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP4	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 Apr 21 1830:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP4	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 May 04 0614:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP5	-	-	75.0W 38.0N (+/- 5.0)	168.0
1978 May 04 0705:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP5	-	-	75.0W 38.0N (+/- 5.0)	165.0
1978 May 04 1829:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP6	-	-	75.0W 38.0N (+/- 5.0)	168.0
1978 May 05 0630:00	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP7	-	-	75.0W 38.0N (+/- 5.0)	160.0
1978 Jun 11 0627:00	MR-12	JASPIC	Wallops I Coast	VIZE	Professor Vize	GMS78A	LP8	-	-	75.0W 38.0N (+/- 5.0)	170.0
1978 Jun 20 0410:00	MR-12	JASPIC	-	VIZE	Professor Vize	GMS78A	LP8	-	-	75.0W 38.0N (+/- 5.0)	175.0
1978 Jun 24 0213:00	MR-12	JASPIC	-	VIZE	Professor Vize	GMS78A	LP8	-	-	75.0W 38.0N (+/- 5.0)	168.0
1978 Jun 26 0131:00	MR-12	JASPIC	-	VIZE	Professor Vize	GMS78A	LP8	-	-	75.0W 38.0N (+/- 5.0)	165.0
1978 Jun 26 0231:00	MR-12	JASPIC	-	VIZE	Professor Vize	GMS78A	LP8	-	-	75.0W 38.0N (+/- 5.0)	165.0
1978 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP9	-	-	75.0W 38.0N (+/- 5.0)	150.0
1978 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP9	-	-	75.0W 38.0N (+/- 5.0)	150.0
1978 Jul	MR-12	-	-	VIZE	Professor Vize	GMS78A	LP9	-	-	75.0W 38.0N (+/- 5.0)	150.0
1982 Feb	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Feb?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Mar?	MR-12	-	-	VIZE	Professor Vize	GMS82A	LP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0

Launches: VIZE

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 Apr?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 May?	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1982 May	MR-12	-	-	VIZE	Professor Vize	GMS82A	ULP1	-	-	0.0E 68.0N (+/- 9.0)	150.0
1983 Aug	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Sep?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct?	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1983 Oct	MR-12	-	-	VIZE	Professor Vize	GMS83B	ULP1	-	-	11.0W 30.0N (+/- 9.0)	150.0
1986 Jun	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jun?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Jul?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Aug?	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1986 Aug	MR-12	-	-	VIZE	Professor Vize	GMS86B	ULP1	-	-	-	150.0
1988 Jul?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Jul?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Aug?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Aug?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Aug?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Sep?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Sep?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Sep?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Oct?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Oct?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Oct?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Oct?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Nov?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Nov?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Dec?	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0
1988 Dec	MR-20	-	-	VIZE	Professor Vize	GMS88C	ULP1	-	-	-	250.0

IV.1.3.12 Professor Zubov

Профессор Зубов

Credit: Unknown

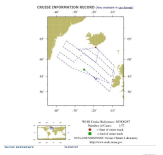
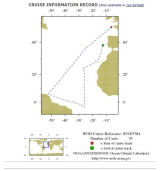
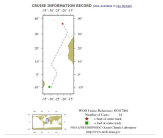
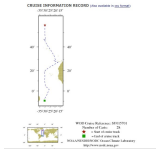
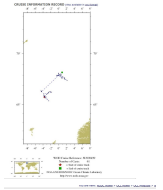
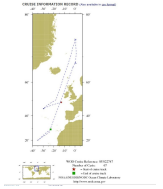
GMS SSSR research ship operated by Arctic and Antarctic Research Inst., Leningrad. In service 1967. Mass: 6900 tons. Code: 6602

Notes: the vessel for the 1969 Jul launches was not given in the WDC Rocket File, but the Shidrovskiy 2003 book (MRKS) reveals that these were the first weather rocket launches from the Zubov.

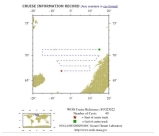
Rockets used: MR-12,MR-20

Updated: 2025 Jul 16 0237:13

Cruises: ZUB

LC_Code	Active	Region	Cruise	CruiseMap
GMS69D	1969 Jul 15 - 1969 Aug 15	Atlantic Ocean	Zubov Expedition 1, 1969	-
GMS69E	1969 Oct 1 - 1969 Dec 31	Atlantic Ocean	Zubov Expedition 2, 1969	
GMS71B	1971 Nov 15 - 1972 Jan 15	Atlantic Ocean	Zubov Expedition 3, 1971-2 (SU007384)	
GMS75D	1975 May 1 - 1975 Jul 31	Atlantic Ocean	Zubov Expedition 4, 1975 (SU017861)	
GMS75F	1975 Nov 1 - 1976 Feb 29	Atlantic Ocean	Zubov Expedition 5, 1975-76 (SU015701)	
GMS80C	1980 Apr 1 - 1980 Jul 31	Atlantic Ocean	Zubov Expedition 6, 1980 Apr-Jul (SU008499)	
GMS81D	1981 May 1 - 1981 Aug 31	Atlantic Ocean	Zubov Expedition 7, 1981 May-Aug (SU022747)	
GMS85A	1985 Feb 1 - 1985 Apr 30	Atlantic Ocean	Zubov Expedition 8, 1985	-
GMS85B	1985 Aug 1 - 1985 Nov 30	Atlantic Ocean	Zubov Expedition 9,1985	-
GMS86D	1986 Sep 1 - 1986 Nov 30	Atlantic Ocean	Zubov Expedition 10, 1986	-
GMS87E	1987 Jun 1 - 1987 Sep 30	Atlantic Ocean	Zubov Expedition 11, 1987	-

Cruises: ZUB

LC_Code	Active	Region	Cruise	CruiseMap
GMS89B	1989 Jul 1 - 1989 Nov 30	Atlantic Ocean	Zubov Expedition 12, 1989 (SU023022)	
GMS90D	1990 Aug 1 - 1990 Dec 31	Atlantic Ocean	Zubov Expedition 13, 1990	-
GMS91A	1991 Jul 1 - 1991 Oct 31	Caribbean and Equatorial Atlantic	Zubov Expedition 14, 1991	-

Updated: 2025 Jul 16 0237:13

Launches: ZUB

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Jul 25 0119:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP1	-	-	46.0W 45.0N (+/- 5.0)	166.0
1969 Jul 27 2147:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP2	-	-	46.0W 45.0N (+/- 5.0)	168.0
1969 Jul 27 2237:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP3	-	-	46.0W 45.0N (+/- 5.0)	164.0
1969 Jul 27 2327:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP4	-	-	46.0W 45.0N (+/- 5.0)	170.0
1969 Jul 28 0017:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP5	-	-	46.0W 45.0N (+/- 5.0)	167.0
1969 Aug 03 0325:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP6	-	-	46.0W 45.0N (+/- 5.0)	164.0
1969 Aug 03 0415:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP7	-	-	46.0W 45.0N (+/- 5.0)	168.0
1969 Aug 03 0505:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP8	-	-	46.0W 45.0N (+/- 5.0)	165.0
1969 Aug 03 0551:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP9	-	-	46.0W 45.0N (+/- 5.0)	169.0
1969 Aug 03 0700:00	MR-12	-	-	ZUB	Professor Zubov	GMS69D	LP10	-	-	46.0W 45.0N (+/- 5.0)	172.0
1969 Oct 9?	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP1	-	-	46.0W 45.0N (+/- 5.0)	150.0
1969 Oct 11 1105	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP2	-	-	46.0W 45.0N (+/- 5.0)	158.0
1969 Oct 18 1107	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP3	-	-	46.0W 45.0N (+/- 5.0)	165.0
1969 Oct 18 1747	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP4	-	-	46.0W 45.0N (+/- 5.0)	160.0
1969 Nov 5 0811	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP5	-	-	46.0W 45.0N (+/- 5.0)	160.0
1969 Nov 5 1112	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP5	-	-	46.0W 45.0N (+/- 5.0)	162.0
1969 Nov 9 1647	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP6	-	-	46.0W 45.0N (+/- 5.0)	162.0
1969 Dec 10 2059	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP7	-	-	46.0W 45.0N (+/- 5.0)	160.0
1969 Dec 10 2213	MR-12	-	-	ZUB	Professor Zubov	GMS69E	LP7	-	-	46.0W 45.0N (+/- 5.0)	160.0
1971 Nov?	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP1	-	-	26.0W 0.0N (+/- 5.0)	150.0
1971 Dec 14 1541:00	MR-12	at CSG?	-	ZUB	Professor Zubov	GMS71B	LP2	-	-	26.0W 0.0N (+/- 5.0)	151.0
1971 Dec 16 0559:00	MR-12	at CSG?	-	ZUB	Professor Zubov	GMS71B	LP2	-	-	26.0W 0.0N (+/- 5.0)	170.0
1971 Dec 26 0400:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP3	-	-	26.0W 0.0N (+/- 5.0)	179.0
1971 Dec 26 1230:00	MR-12	MX-6407P Mass spec	-	ZUB	Professor Zubov	GMS71B	LP3	-	-	26.0W 0.0N (+/- 5.0)	150.0
1971 Dec 26 1430:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP3	-	-	26.0W 0.0N (+/- 5.0)	175.0
1971 Dec 27 0200:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP3	-	-	26.0W 0.0N (+/- 5.0)	176.0
1972 Jan?	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP5	-	-	26.0W 0.0N (+/- 5.0)	150.0
1971 Dec 31 1949:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP4	-	-	26.0W 0.0N (+/- 5.0)	177.0
1971 Dec 31 2049:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP4	-	-	26.0W 0.0N (+/- 5.0)	158.0
1971 Dec 31 2157:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP4	-	-	26.0W 0.0N (+/- 5.0)	179.0
1971 Dec 31 2300:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP4	-	-	26.0W 0.0N (+/- 5.0)	183.0
1972 Jan 01 0705:00	MR-12	-	-	ZUB	Professor Zubov	GMS71B	LP5	-	-	26.0W 0.0N (+/- 5.0)	180.0
1975 May	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 May?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	LP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	LP2	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS75D	ULP1	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Jul	MR-12	-	-	ZUB	Professor Zubov	GMS75D	LP3	-	-	26.0W 3.0N (+/- 5.0)	150.0
1975 Nov	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1975 Nov?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1975 Dec?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	LP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1975 Dec?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1975 Dec?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0

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Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Dec?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Jan?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	LP2	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Jan?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Jan?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	LP3	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Jan?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Feb?	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1976 Feb	MR-12	-	-	ZUB	Professor Zubov	GMS75F	ULP1	-	-	30.0W 54.0N (+/- 5.0)	150.0
1980 Apr	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 May?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	LP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 May?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	LP2	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 May?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 May?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 May?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	LP3	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1980 Jul	MR-12	-	-	ZUB	Professor Zubov	GMS80C	ULP1	-	-	0.0E 68.0N (+/- 5.0)	150.0
1981 May	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 May?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 May?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP2	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 May?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP3	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP4	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jun?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP5	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Jul?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	LP6	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Aug?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Aug?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Aug?	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1981 Aug	MR-12	-	-	ZUB	Professor Zubov	GMS81D	ULP1	-	-	5.0W 70.0N (+/- 5.0)	150.0
1985 Feb	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Feb?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Feb?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Mar?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Mar?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Mar?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Mar?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Mar 18 0005	MR-20	Plazma	-	ZUB	Professor Zubov	GMS85A	LP1	-	-	-	250.0
1985 Apr?	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Apr	MR-12	-	-	ZUB	Professor Zubov	GMS85A	ULP1	-	-	-	150.0
1985 Aug	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0

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Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Aug?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Nov?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Nov?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Nov?	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1985 Nov	MR-12	-	-	ZUB	Professor Zubov	GMS85B	ULP1	-	-	-	150.0
1986 Sep	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Sep?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Oct?	MR-12	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	150.0
1986 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	250.0
1986 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	250.0
1986 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	250.0
1986 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS86D	ULP1	-	-	-	250.0
1987 Jun	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jun?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jun?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jun?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jun?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1987 Sep	MR-20	-	-	ZUB	Professor Zubov	GMS87E	ULP1	-	-	-	250.0
1989 Jul	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	LP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0

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Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	LP2	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1989 Nov	MR-20	-	-	ZUB	Professor Zubov	GMS89B	ULP1	-	-	5.0W 0.0N (+/- 5.0)	250.0
1990 Aug	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP1	-	-	-	250.0
1990 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP2	-	-	-	250.0
1990 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP3	-	-	-	250.0
1990 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP4	-	-	-	250.0
1990 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP5	-	-	-	250.0
1990 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP6	-	-	-	250.0
1990 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP7	-	-	-	250.0
1990 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Nov?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	LP8	-	-	-	250.0
1990 Dec?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Dec?	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1990 Dec	MR-20	-	-	ZUB	Professor Zubov	GMS90D	ULP1	-	-	-	250.0
1991 Jul	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Jul?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Aug?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Sep?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Oct?	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0
1991 Oct	MR-20	-	-	ZUB	Professor Zubov	GMS91A	ULP1	-	-	-	250.0

IV.1.3.13 Akademik Korolev

Академик Королёв

Credit: Unknown

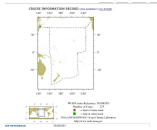
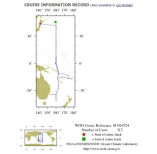
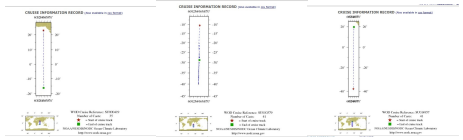
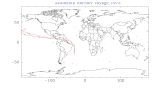
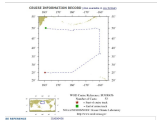
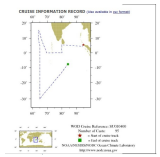
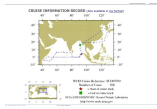
There were two Soviet research ships associated with Korolev: the Akademik Korolev (this one) and the Akademik Sergey Korolev (a larger space tracking ship). Thanks to Brian Harvey for drawing this to my attention.

Some launches are not associated with particular vessels in the WDC Rocket File but do have latitude and longitude. The NOAA NODC (National Oceanographic Data Center) database (nodc.noaa.gov) gives cruise data for particular vessels, with latitude and longitude versus time. was useful in identifiying some of these.

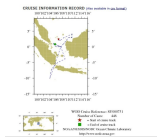
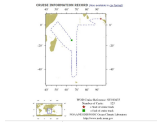
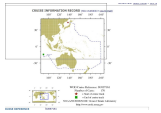
Rockets used: M-100,M-100B,Super Loki

Updated: 2025 Jul 16 0237:13

Cruises: KORO

LC_Code	Active	Region	Cruise	CruiseMap
GMS70E	1970 Dec 1 - 1971 Feb 28	Pacific Ocean	Korolev Expedition 1, 1970-71 (SU000303)	
GMS72B	1972 Jan 1 - 1972 Mar 31	Pacific Ocean	Korolev Expedition 2, 1972 (SU016724)	
GMS73A	1973 Feb 1 - 1973 Mar 31	Indian Ocean	Korolev Expedition 3, 1973 (SU000419, SU010379, SU014957)	
GMS73D	1973 Jul 1 - 1973 Nov 15	Pacific and Atlantic Oceans	Korolev Expedition 4, 1973	
GMS74B	1974 Feb 15 - 1974 May 31	Pacific Ocean	Korolev Expedition 5, 1974 (SU000456)	
GMS74D	1974 Oct 15 - 1974 Nov 30	Pacific Ocean	Korolev Expedition 6, 1974	–
GMS75B	1975 Mar 1 - 1975 Mar 31	Indian Ocean	Korolev Expedition 7, 1975	–
GMS77A	1977 Jan 1 - 1977 Jan 31	Pacific Ocean	Korolev Expedition 8, 1977	–
GMS77C	1977 Mar 1 - 1977 Mar 31	Indian Ocean	Korolev Expedition 9, 1977 (SU010400)	
GMS77H	1977 Jun 1 - 1977 Aug 31	Pacific and Atlantic Oceans	Korolev Expedition 10, 1977	–
GMS77L	1977 Nov 1 - 1978 Mar 15	Indian and Pacific Oceans	Korolev Expedition 11, 1977-78	–
GMS78E	1978 Apr 1 - 1978 Apr 30	Pacific Ocean	Korolev Expedition 12, 1978	–
GMS79C	1979 Apr 15 - 1979 Aug 20	Indian Ocean	Korolev Expedition 14, 1979 (SU000709)	

Cruises: KORO

LC_Code	Active	Region	Cruise	CruiseMap
GMS79J	1979 Nov 15 - 1980 Mar 1	Pacific Ocean	Korolev Expedition 15, 1979-80 (SU000710)	
GMS79L	1979 Jan 1 - 1979 Feb 15	Ninety East Ridge, Indian Ocean	Korolev Expedition 13, 1979	
GMS80E	1980 May 1 - 1980 Jun 15	Ontong Java Plateau, Pacific Ocean	Korolev Expedition 16, 1980	-
GMS81E	1981 May 1 - 1981 Jun 30	Indian Ocean	Korolev Expedition 17, 1981 (SU010433)	
GMS82B	1982 Feb 1 - 1982 Mar 31	Indian and Pacific Oceans	Korolev Expedition 18, 1982	-
GMS83A	1983 Jun 15 - 1983 Aug 15	Indian and Pacific Oceans	Korolev Expedition 19, 1983 (SU097181)	
GMS87C	1987 Jan 15 - 1987 Mar 31	Pacific or Indian Ocean?	Korolev Expedition 20, 1987	-
GMS89A	1988 Dec 15 - 1989 Mar 31	Pacific or Indian Ocean?	Korolev Expedition 21, 1988-89	-

Updated: 2025 Jul 16 0237:13

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Dec 09 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP1	-	-	132.0W 40.0N (+/- 5.0)	90.0
1970 Dec 11 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP2	-	-	132.0W 40.0N (+/- 5.0)	90.0
1970 Dec 19 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP3	-	-	132.0W 40.0N (+/- 5.0)	92.0
1970 Dec 22 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP4	-	-	132.0W 40.0N (+/- 5.0)	92.0
1970 Dec 23 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP5	-	-	132.0W 40.0N (+/- 5.0)	91.0
1970 Dec 29 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP6	-	-	132.0W 40.0N (+/- 5.0)	92.0
1970 Dec 31 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP7	-	-	132.0W 40.0N (+/- 5.0)	91.0
1971 Jan 08 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP8	-	-	132.0W 40.0N (+/- 5.0)	85.0
1971 Jan 14 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP9	-	-	132.0W 40.0N (+/- 5.0)	87.0
1971 Jan 16 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP10	-	-	132.0W 40.0N (+/- 5.0)	88.0
1971 Jan 18 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP11	-	-	132.0W 40.0N (+/- 5.0)	90.0
1971 Jan 20 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP12	-	-	132.0W 40.0N (+/- 5.0)	92.0
1971 Jan 22 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP13	-	-	132.0W 40.0N (+/- 5.0)	93.0
1971 Jan 24 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP14	-	-	132.0W 40.0N (+/- 5.0)	92.0
1971 Feb 01 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP15	-	-	132.0W 40.0N (+/- 5.0)	82.0
1971 Feb 03 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP16	-	-	132.0W 40.0N (+/- 5.0)	89.0
1971 Feb 05 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP17	-	-	132.0W 40.0N (+/- 5.0)	89.0
1971 Feb 08 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP18	-	-	132.0W 40.0N (+/- 5.0)	91.0
1971 Feb 10 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP19	-	-	132.0W 40.0N (+/- 5.0)	87.0
1971 Feb 13 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP20	-	-	132.0W 40.0N (+/- 5.0)	90.0
1971 Feb 17 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS70E	LP21	-	-	132.0W 40.0N (+/- 5.0)	87.0
1972 Jan 10 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP1	-	-	160.0E 0.0N (+/- 5.0)	91.0
1972 Jan 12 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP2	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Jan 15 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP3	-	-	160.0E 0.0N (+/- 5.0)	92.0
1972 Jan 17 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP4	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Jan 19 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP5	-	-	160.0E 0.0N (+/- 5.0)	91.0
1972 Jan 20 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP6	-	-	160.0E 0.0N (+/- 5.0)	94.0
1972 Jan 21 1000:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	91.0
1972 Jan 22 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP7	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Mar 15 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP8	-	-	160.0E 0.0N (+/- 5.0)	93.0
1972 Mar 17 1700:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	91.0
1972 Mar 18 1100:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	90.0
1972 Mar 19 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP6	-	-	160.0E 0.0N (+/- 5.0)	91.0
1972 Mar 20 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP9	-	-	160.0E 0.0N (+/- 5.0)	87.0
1972 Mar 21 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP10	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Mar 23 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP11	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Mar 24 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP12	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Mar 25 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP13	-	-	160.0E 0.0N (+/- 5.0)	90.0
1972 Mar 27 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS72B	LP14	-	-	160.0E 0.0N (+/- 5.0)	83.0
1973 Feb 01 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP1	-	-	65.0E 0.0N (+/- 5.0)	85.0
1973 Feb 03 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP2	-	-	65.0E 0.0N (+/- 5.0)	88.0
1973 Feb 04 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP3	-	-	65.0E 0.0N (+/- 5.0)	90.0
1973 Feb 05 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	85.0
1973 Feb 07 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1973 Feb 23 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1973 Feb 23 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1973 Feb 23 2300:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	RODR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1973 Feb 26 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1973 Feb 26 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	86.0
1973 Feb 26 2100:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0
1973 Mar 01 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	86.0
1973 Mar 01 2100:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	86.0
1973 Mar 01 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	86.0
1973 Mar 04 1800:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1973 Mar 04 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	87.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1973 Mar 07 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP5	-	-	65.0E 0.0N (+/- 5.0)	87.0
1973 Mar 07 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP5	-	-	65.0E 0.0N (+/- 5.0)	87.0
1973 Mar 10 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP6	-	-	65.0E 0.0N (+/- 5.0)	89.0
1973 Mar 11 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	89.0
1973 Mar 12 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP7	-	-	65.0E 0.0N (+/- 5.0)	88.0
1973 Mar 19 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP8	-	-	65.0E 0.0N (+/- 5.0)	89.0
1973 Mar 20 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	83.0
1973 Mar 20 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	90.0
1973 Mar 21 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP3	-	-	65.0E 0.0N (+/- 5.0)	90.0
1973 Mar 22 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP2	-	-	65.0E 0.0N (+/- 5.0)	86.0
1973 Mar 24 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS73A	LP1	-	-	65.0E 0.0N (+/- 5.0)	86.0
1973 Jul 01 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP1	-	-	30.0W 20.0S (+/- 5.0)	82.0
1973 Jul 03 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP2	-	-	30.0W 20.0S (+/- 5.0)	82.0
1973 Jul 06 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP3	-	-	30.0W 20.0S (+/- 5.0)	92.0
1973 Jul 07 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP3	-	-	30.0W 20.0S (+/- 5.0)	90.0
1973 Jul 19 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP4	-	-	30.0W 20.0S (+/- 5.0)	87.0
1973 Aug 11 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP5	-	-	30.0W 20.0S (+/- 5.0)	86.0
1973 Aug 19 0400:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP6	-	-	30.0W 20.0S (+/- 5.0)	84.0
1973 Aug 21 0300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP7	-	-	30.0W 20.0S (+/- 5.0)	85.0
1973 Aug 23 0300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP8	-	-	30.0W 20.0S (+/- 5.0)	89.0
1973 Aug 26 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP9	-	-	30.0W 20.0S (+/- 5.0)	85.0
1973 Aug 27 0030:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP9	-	-	30.0W 20.0S (+/- 5.0)	84.0
1973 Aug 28 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP10	-	-	30.0W 20.0S (+/- 5.0)	83.0
1973 Aug 29 0100:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP11	-	-	30.0W 20.0S (+/- 5.0)	87.0
1973 Aug 29 0200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP11	-	-	30.0W 20.0S (+/- 5.0)	81.0
1973 Aug 30 0100:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP12	-	-	30.0W 20.0S (+/- 5.0)	86.0
1973 Aug 30 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP13	-	-	30.0W 20.0S (+/- 5.0)	86.0
1973 Aug 31 0200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP13	-	-	30.0W 20.0S (+/- 5.0)	89.0
1973 Aug 31 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP12	-	-	30.0W 20.0S (+/- 5.0)	87.0
1973 Sep 01 0000:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP14	-	-	30.0W 20.0S (+/- 5.0)	84.0
1973 Sep 02 0000:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP14	-	-	30.0W 20.0S (+/- 5.0)	89.0
1973 Sep 03 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP15	-	-	30.0W 20.0S (+/- 5.0)	87.0
1973 Sep 03 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP15	-	-	30.0W 20.0S (+/- 5.0)	84.0
1973 Sep 09 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP8	-	-	30.0W 20.0S (+/- 5.0)	87.0
1973 Sep 09 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP8	-	-	30.0W 20.0S (+/- 5.0)	83.0
1973 Sep 11 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP16	-	-	30.0W 20.0S (+/- 5.0)	82.0
1973 Sep 14 2000:00	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	87.0
1973 Sep 18 1700:00	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	84.0
1973 Sep 20 1440	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	77.0
1973 Sep 21 0420	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Sep 21 1520	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Sep 22 0410	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	68.0
1973 Sep 24 1720	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	79.0
1973 Sep 25 0030	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	78.0
1973 Sep 25 1810	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	77.0
1973 Sep 26 0020	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	78.0
1973 Sep 26 1410	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Sep 27 1410	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Sep 28 0240	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Sep 29 0300:00	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	78.0
1973 Oct 1 0340	M-100	-	-	KORO	Akademik Korolev	CSG	MER	-	-	52.8W 5.2N (+/- 0.0)	80.0
1973 Oct 31 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP17	-	-	30.0W 20.0S (+/- 5.0)	89.0
1973 Nov 01 0100:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP18	-	-	30.0W 20.0S (+/- 5.0)	89.0
1973 Nov 07 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP19	-	-	30.0W 20.0S (+/- 5.0)	92.0
1973 Nov 11 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS73D	LP20	-	-	30.0W 20.0S (+/- 5.0)	82.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Feb 17 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP1	-	-	160.0E 0.0N (+/- 5.0)	79.0
1974 Feb 19 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP2	-	-	160.0E 0.0N (+/- 5.0)	95.0
1974 Mar 10 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP3	-	-	160.0E 0.0N (+/- 5.0)	88.0
1974 Mar 14 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP4	-	-	160.0E 0.0N (+/- 5.0)	84.0
1974 Mar 17 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP5	-	-	160.0E 0.0N (+/- 5.0)	84.0
1974 Mar 20 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP6	-	-	160.0E 0.0N (+/- 5.0)	88.0
1974 Mar 20 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP7	-	-	160.0E 0.0N (+/- 5.0)	85.0
1974 Mar 23 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP8	-	-	160.0E 0.0N (+/- 5.0)	82.0
1974 Mar 23 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP8	-	-	160.0E 0.0N (+/- 5.0)	86.0
1974 May 09 1300:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	89.0
1974 May 15 0745:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP9	-	-	160.0E 0.0N (+/- 5.0)	87.0
1974 May 18 0640:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP10	-	-	160.0E 0.0N (+/- 5.0)	85.0
1974 May 22 0640:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP11	-	-	160.0E 0.0N (+/- 5.0)	87.0
1974 May 25 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP12	-	-	160.0E 0.0N (+/- 5.0)	87.0
1974 May 27 0400:00	M-100	-	-	KORO	Akademik Korolev	GMS74B	LP13	-	-	160.0E 0.0N (+/- 5.0)	85.0
1974 Oct 22 0300:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP1	-	-	140.0W 0.0N (+/- 5.0)	87.0
1974 Oct 27 0400:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP1	-	-	140.0W 0.0N (+/- 5.0)	84.0
1974 Oct 30 0400:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP2	-	-	140.0W 0.0N (+/- 5.0)	90.0
1974 Nov 02 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP3	-	-	140.0W 0.0N (+/- 5.0)	81.0
1974 Nov 05 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP4	-	-	140.0W 0.0N (+/- 5.0)	84.0
1974 Nov 26 1030:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP5	-	-	140.0W 0.0N (+/- 5.0)	88.0
1974 Nov 26 1440:00	M-100	-	-	KORO	Akademik Korolev	GMS74D	LP5	-	-	140.0W 0.0N (+/- 5.0)	91.0
1975 Mar 09 1630:00	M-100	-	-	KORO	Akademik Korolev	GMS75B	LP1	-	-	78.0E 48.0S (+/- 5.0)	81.0
1975 Mar 18 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS75B	LP2	-	-	78.0E 48.0S (+/- 5.0)	83.0
1975 Mar 18 1840:00	M-100	-	-	KORO	Akademik Korolev	GMS75B	LP2	-	-	78.0E 48.0S (+/- 5.0)	81.0
1977 Jan 04 1240:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP1	-	-	160.0W 30.0N (+/- 5.0)	86.0
1977 Jan 05 0950:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP2	-	-	160.0W 30.0N (+/- 5.0)	87.0
1977 Jan 07 0840:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP3	-	-	160.0W 30.0N (+/- 5.0)	78.0
1977 Jan 12 0840:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP4	-	-	160.0W 30.0N (+/- 5.0)	79.0
1977 Jan 17 0730:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP5	-	-	160.0W 30.0N (+/- 5.0)	85.0
1977 Jan 21 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP6	-	-	160.0W 30.0N (+/- 5.0)	78.0
1977 Jan 23 1036:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP7	-	-	160.0W 30.0N (+/- 5.0)	77.0
1977 Jan 26 0910:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP8	-	-	160.0W 30.0N (+/- 5.0)	83.0
1977 Jan 27 0810:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP9	-	-	160.0W 30.0N (+/- 5.0)	81.0
1977 Jan 28 1450:00	M-100	-	-	KORO	Akademik Korolev	GMS77A	LP10	-	-	160.0W 30.0N (+/- 5.0)	77.0
1977 Mar 12 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP1	-	-	65.0E 0.0N (+/- 5.0)	78.0
1977 Mar 14 0500:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP2	-	-	65.0E 0.0N (+/- 5.0)	84.0
1977 Mar 18 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP3	-	-	65.0E 0.0N (+/- 5.0)	82.0
1977 Mar 19 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP4	-	-	65.0E 0.0N (+/- 5.0)	84.0
1977 Mar 20 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP5	-	-	65.0E 0.0N (+/- 5.0)	88.0
1977 Mar 21 0600:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	83.0
1977 Mar 22 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP6	-	-	65.0E 0.0N (+/- 5.0)	83.0
1977 Mar 23 0600:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1977 Mar 26 0600:00	M-100	-	-	KORO	Akademik Korolev	GMS77C	LP7	-	-	65.0E 0.0N (+/- 5.0)	85.0
1977 Mar 28 0700:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	82.0
1977 Mar 28 0900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	81.0
1977 Jun	M-100B	-	[Dubious]	KORO	Akademik Korolev	GMS77H	-	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jun	M-100B	-	[Dubious]	KORO	Akademik Korolev	GMS77H	-	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 18 0631	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP01	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 18 0751	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP02	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 21 2030	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP03	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 21 2200	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP04	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 21 2330	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP05	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 25 0509	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP06	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 25 0640	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP07	-	-	126.0W 14.5N (+/- 5.0)	70.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1977 Jul 25 0810	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP08	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 27 0304	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP09	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Jul 27 0435	M-100B	-	-	KORO	Akademik Korolev	GMS77H	LP10	-	-	126.0W 14.5N (+/- 5.0)	70.0
1977 Aug 10 1405	M-100B	No. 1	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	82.0
1977 Aug 12 0405	M-100B	No. 2	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	82.0
1977 Aug 12 0606	M-100B	No. 3	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	82.0
1977 Aug 12 1105	M-100B	No. 4	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	81.0
1977 Aug 15 1735	M-100B	No. 5	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 15 1935	M-100B	No. 6	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	80.0
1977 Aug 16 0105	M-100B	No. 7	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	79.0
1977 Aug 16 1840	M-100B	No. 8	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	85.0
1977 Aug 16 2029	M-100B	No. 9	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 17 2015	M-100B	No. 10	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	86.0
1977 Aug 19 0120	M-100B	No. 11	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 19 0308	M-100B	No. 12	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 19 0507	M-100B	No. 13	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	83.0
1977 Aug 19 2005	M-100B	No. 14	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	83.0
1977 Aug 19 2205	M-100B	No. 15	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	82.0
1977 Aug 20 0105	M-100B	No. 16	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	83.0
1977 Aug 22 2312	M-100B	No. 17	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	83.0
1977 Aug 23 0105	M-100B	No. 18	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 23 0343	M-100B	No. 19	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 24 0107	M-100B	No. 20	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Aug 24 0308	M-100B	No. 21	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1977 Nov 05 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP1	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Nov 07 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP2	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Nov 08 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP3	-	-	165.0E 40.0N (+/- 5.0)	75.0
1977 Nov 09 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP4	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Nov 11 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP4	-	-	165.0E 40.0N (+/- 5.0)	86.0
1977 Nov 13 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP5	-	-	165.0E 40.0N (+/- 5.0)	81.0
1977 Nov 15 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP6	-	-	165.0E 40.0N (+/- 5.0)	79.0
1977 Nov 16 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP7	-	-	165.0E 40.0N (+/- 5.0)	76.0
1977 Nov 21 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP8	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Nov 22 1650:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP9	-	-	165.0E 40.0N (+/- 5.0)	84.0
1977 Nov 23 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP10	-	-	165.0E 40.0N (+/- 5.0)	84.0
1977 Nov 24 1800:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	88.0
1977 Nov 26 1700:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	71.0
1977 Nov 28 1700:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO6540	-	-	65.0E 0.0N (+/- 2.0)	77.0
1977 Nov 28 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP11	-	-	165.0E 40.0N (+/- 5.0)	70.0
1977 Nov 29 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP12	-	-	165.0E 40.0N (+/- 5.0)	79.0
1977 Nov 29 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP12	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Nov 30 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP13	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 01 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP14	-	-	165.0E 40.0N (+/- 5.0)	84.0
1977 Dec 02 2100:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOSWR	-	-	65.0E 0.0N (+/- 2.0)	82.0
1977 Dec 03 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 09 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 11 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	82.0
1977 Dec 15 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	83.0
1977 Dec 16 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 19 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 20 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	87.0
1977 Dec 21 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	85.0
1977 Dec 22 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP15	-	-	165.0E 40.0N (+/- 5.0)	87.0
1978 Jan 11 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP16	-	-	165.0E 40.0N (+/- 5.0)	90.0
1978 Jan 12 0820:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP17	-	-	165.0E 40.0N (+/- 5.0)	84.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Jan 18 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP18	-	-	165.0E 40.0N (+/- 5.0)	81.0
1978 Jan 27 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP19	-	-	165.0E 40.0N (+/- 5.0)	90.0
1978 Feb 01 0200:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP20	-	-	165.0E 40.0N (+/- 5.0)	81.0
1978 Feb 03 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP21	-	-	165.0E 40.0N (+/- 5.0)	82.0
1978 Feb 07 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP22	-	-	165.0E 40.0N (+/- 5.0)	82.0
1978 Feb 15 0900:00	M-100	-	-	KORO	Akademik Korolev	ANTIM	-	-	-	180.0E 0.0N (+/- 1.0)	84.0
1978 Feb 17 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP24	-	-	165.0E 40.0N (+/- 5.0)	84.0
1978 Feb 19 0920:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP25	-	-	165.0E 40.0N (+/- 5.0)	81.0
1978 Feb 23 0830:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP26	-	-	165.0E 40.0N (+/- 5.0)	88.0
1978 Feb 24 0930:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP27	-	-	165.0E 40.0N (+/- 5.0)	85.0
1978 Feb 27 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP28	-	-	165.0E 40.0N (+/- 5.0)	81.0
1978 Mar 01 0730:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP29	-	-	165.0E 40.0N (+/- 5.0)	87.0
1978 Mar 05 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP30	-	-	165.0E 40.0N (+/- 5.0)	91.0
1978 Mar 05 1015:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP30	-	-	165.0E 40.0N (+/- 5.0)	83.0
1978 Mar 08 0740:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP31	-	-	165.0E 40.0N (+/- 5.0)	89.0
1978 Mar 08 0910:00	M-100	-	-	KORO	Akademik Korolev	GMS77L	LP32	-	-	165.0E 40.0N (+/- 5.0)	83.0
1978 Apr 03 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP1	-	-	160.0E 0.0N (+/- 5.0)	88.0
1978 Apr 03 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP1	-	-	160.0E 0.0N (+/- 5.0)	85.0
1978 Apr 06 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP2	-	-	160.0E 0.0N (+/- 5.0)	83.0
1978 Apr 07 1100:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP3	-	-	160.0E 0.0N (+/- 5.0)	87.0
1978 Apr 07 1230:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP3	-	-	160.0E 0.0N (+/- 5.0)	85.0
1978 Apr 21 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP4	-	-	160.0E 0.0N (+/- 5.0)	84.0
1978 Apr 22 0835:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP5	-	-	160.0E 0.0N (+/- 5.0)	88.0
1978 Apr 22 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP5	-	-	160.0E 0.0N (+/- 5.0)	88.0
1978 Apr 23 0920:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP6	-	-	160.0E 0.0N (+/- 5.0)	83.0
1978 Apr 24 0850:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP7	-	-	160.0E 0.0N (+/- 5.0)	87.0
1978 Apr 25 0850:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP8	-	-	160.0E 0.0N (+/- 5.0)	84.0
1978 Apr 26 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP8	-	-	160.0E 0.0N (+/- 5.0)	81.0
1978 Apr 27 0900:00	M-100	-	-	KORO	Akademik Korolev	GMS78E	LP9	-	-	160.0E 0.0N (+/- 5.0)	81.0
1979 Jan 10 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1979 Jan 13 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	87.0
1979 Jan 14 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Jan 16 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	87.0
1979 Jan 18 1550:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1979 Jan 19 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Jan 20 1525:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1979 Jan 21 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Jan 22 1530:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	88.0
1979 Jan 23 1510:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Jan 24 1535:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Jan 25 1455:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	80.0
1979 Jan 26 1500:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1979 Jan 27 1455:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Jan 28 1535:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1979 Jan 29 1535:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Jan 30 1755:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Jan 31 1500:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Feb 01 1500:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Feb 02 1500:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Feb 03 1800:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Feb 04 2000:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Feb 05 2120:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Feb 06 1900:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	81.0
1979 Feb 07 1850:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	78.0
1979 Feb 09 2020:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979 Feb 10 1930:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	82.0
1979 Feb 11 1950:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Feb 12 2050:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1979 Feb 13 2010:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Feb 14 1350:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	83.0
1979 Apr 21 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP1	-	-	54.0E 6.0N (+/- 5.0)	78.0
1979 Apr 22 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP2	-	-	54.0E 6.0N (+/- 5.0)	82.0
1979 Apr 24 2010:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP3	-	-	54.0E 6.0N (+/- 5.0)	84.0
1979 Apr 26 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP4	-	-	54.0E 6.0N (+/- 5.0)	84.0
1979 Apr 29 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP3	-	-	54.0E 6.0N (+/- 5.0)	85.0
1979 May 01 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP5	-	-	54.0E 6.0N (+/- 5.0)	85.0
1979 May 02 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP6	-	-	54.0E 6.0N (+/- 5.0)	82.0
1979 May 13 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP6	-	-	54.0E 6.0N (+/- 5.0)	83.0
1979 May 16 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP7	-	-	54.0E 6.0N (+/- 5.0)	82.0
1979 May 18 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1979 May 19 2200:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP7	-	-	54.0E 6.0N (+/- 5.0)	88.0
1979 May 21 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1979 May 21 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1979 May 21 2200:00	Super Loki	-	-	KORO	Akademik Korolev	WI	LP2	-	-	75.5W 37.8N (+/- 0.0)	84.0
1979 May 23 2300:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1979 May 24 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	85.0
1979 May 26 0040:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	84.0
1979 May 26 2200:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	89.0
1979 May 27 2130:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	79.0
1979 May 29 2130:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCHR	-	-	65.0E 0.0N (+/- 2.0)	81.0
1979 Jun 24 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP8	-	-	54.0E 6.0N (+/- 5.0)	82.0
1979 Jun 26 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP9	-	-	54.0E 6.0N (+/- 5.0)	92.0
1979 Aug 20 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS79C	LP1	-	-	54.0E 6.0N (+/- 5.0)	82.0
1979 Nov 27 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP1	-	-	160.0E 0.0N (+/- 1.0)	81.0
1979 Nov 27 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP1	-	-	160.0E 0.0N (+/- 1.0)	82.0
1979 Nov 29 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP2	-	-	160.0E 0.0N (+/- 1.0)	84.0
1979 Nov 29 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP2	-	-	160.0E 0.0N (+/- 1.0)	85.0
1979 Nov 30 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP3	-	-	160.0E 0.0N (+/- 1.0)	82.0
1979 Dec 04 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP4	-	-	160.0E 0.0N (+/- 1.0)	82.0
1979 Dec 12 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP5	-	-	160.0E 0.0N (+/- 1.0)	85.0
1979 Dec 12 1630:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP5	-	-	160.0E 0.0N (+/- 1.0)	76.0
1980 Jan 03 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP6	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Jan 03 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP6	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Jan 21 0700:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP7	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Jan 21 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP7	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Jan 23 0800:00	M-100	-	-	KORO	Akademik Korolev	GMS79J	LP8	-	-	160.0E 0.0N (+/- 1.0)	85.0
1980 Feb 25 1400:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	87.0
1980 Feb 25 1500:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 25 1630:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	86.0
1980 Feb 25 1750:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 26 1430:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	89.0
1980 Feb 26 1600:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	82.0
1980 Feb 26 1730:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	89.0
1980 Feb 26 1830:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	86.0
1980 Feb 27 1210:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 27 1530:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 27 1730:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	82.0
1980 Feb 28 1300:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	86.0
1980 Feb 28 1400:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	88.0
1980 Feb 28 1530:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980 Feb 29 1100:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	83.0
1980 Feb 29 1200:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	88.0
1980 Feb 29 1330:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Feb 29 1550:00	M-100	-	-	KORO	Akademik Korolev	OJP	-	-	-	160.0E 0.0N (+/- 1.0)	85.0
1980 May 01 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP1	-	-	160.0E 0.0N (+/- 1.0)	90.0
1980 May 06 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP2	-	-	160.0E 0.0N (+/- 1.0)	94.0
1980 May 07 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP2	-	-	160.0E 0.0N (+/- 1.0)	89.0
1980 May 20 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP3	-	-	160.0E 0.0N (+/- 1.0)	91.0
1980 May 20 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP3	-	-	160.0E 0.0N (+/- 1.0)	91.0
1980 May 26 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP4	-	-	160.0E 0.0N (+/- 1.0)	85.0
1980 May 26 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP4	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 May 28 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP5	-	-	160.0E 0.0N (+/- 1.0)	82.0
1980 May 28 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP5	-	-	160.0E 0.0N (+/- 1.0)	88.0
1980 Jun 03 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP6	-	-	160.0E 0.0N (+/- 1.0)	84.0
1980 Jun 03 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS80E	LP6	-	-	160.0E 0.0N (+/- 1.0)	81.0
1981 May 02 1830:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP1	-	-	65.0E 0.0N (+/- 5.0)	85.0
1981 May 04 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP2	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 May 09 1835:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP3	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 May 12 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP4	-	-	65.0E 0.0N (+/- 5.0)	82.0
1981 May 12 1810:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP4	-	-	65.0E 0.0N (+/- 5.0)	76.0
1981 May 14 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP5	-	-	65.0E 0.0N (+/- 5.0)	88.0
1981 May 14 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP6	-	-	65.0E 0.0N (+/- 5.0)	90.0
1981 May 15 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP7	-	-	65.0E 0.0N (+/- 5.0)	80.0
1981 May 17 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP8	-	-	65.0E 0.0N (+/- 5.0)	92.0
1981 May 17 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP8	-	-	65.0E 0.0N (+/- 5.0)	89.0
1981 May 18 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP9	-	-	65.0E 0.0N (+/- 5.0)	76.0
1981 May 19 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP10	-	-	65.0E 0.0N (+/- 5.0)	79.0
1981 May 19 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP11	-	-	65.0E 0.0N (+/- 5.0)	86.0
1981 May 20 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP12	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 May 20 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP12	-	-	65.0E 0.0N (+/- 5.0)	86.0
1981 May 21 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP13	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 Jun 11 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP14	-	-	65.0E 0.0N (+/- 5.0)	87.0
1981 Jun 12 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IOCOR	-	-	65.0E 0.0N (+/- 2.0)	82.0
1981 Jun 13 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP15	-	-	65.0E 0.0N (+/- 5.0)	83.0
1981 Jun 14 2000:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	86.0
1981 Jun 14 2100:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO65	-	-	65.0E 0.0N (+/- 2.0)	85.0
1981 Jun 15 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP16	-	-	65.0E 0.0N (+/- 5.0)	85.0
1981 Jun 16 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP17	-	-	65.0E 0.0N (+/- 5.0)	82.0
1981 Jun 17 2300:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP18	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 Jun 21 1900:00	M-100	-	-	KORO	Akademik Korolev	IOLZ	IO70	-	-	65.0E 0.0N (+/- 2.0)	87.0
1981 Jun 23 2100:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP20	-	-	65.0E 0.0N (+/- 5.0)	79.0
1981 Jun 24 2030:00	M-100	-	-	KORO	Akademik Korolev	GMS81E	LP21	-	-	65.0E 0.0N (+/- 5.0)	84.0
1981 Jun 25 2000:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	89.0
1981 Jun 25 2100:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1982 Feb 08 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP1	-	-	70.0E 25.0S (+/- 5.0)	85.0
1982 Feb 10 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP2	-	-	70.0E 25.0S (+/- 5.0)	79.0
1982 Feb 18 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP3	-	-	70.0E 25.0S (+/- 5.0)	86.0
1982 Feb 19 1200:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP4	-	-	70.0E 25.0S (+/- 5.0)	90.0
1982 Mar 04 1500:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP5	-	-	70.0E 25.0S (+/- 5.0)	85.0
1982 Mar 07 1400:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP5	-	-	70.0E 25.0S (+/- 5.0)	89.0
1982 Mar 07 1520:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP5	-	-	70.0E 25.0S (+/- 5.0)	74.0
1982 Mar 10 1520:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP6	-	-	70.0E 25.0S (+/- 5.0)	93.0
1982 Mar 12 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP7	-	-	70.0E 25.0S (+/- 5.0)	75.0
1982 Mar 12 1825:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP8	-	-	70.0E 25.0S (+/- 5.0)	91.0
1982 Mar 14 0840:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP9	-	-	70.0E 25.0S (+/- 5.0)	91.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Mar 15 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP10	-	-	70.0E 25.0S (+/- 5.0)	93.0
1982 Mar 16 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP11	-	-	70.0E 25.0S (+/- 5.0)	83.0
1982 Mar 17 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP12	-	-	70.0E 25.0S (+/- 5.0)	87.0
1982 Mar 18 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP13	-	-	70.0E 25.0S (+/- 5.0)	88.0
1982 Mar 19 1800:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP14	-	-	70.0E 25.0S (+/- 5.0)	91.0
1982 Mar 20 1900:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP15	-	-	70.0E 25.0S (+/- 5.0)	74.0
1982 Mar 21 1720:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP16	-	-	70.0E 25.0S (+/- 5.0)	91.0
1982 Mar 22 2000:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP17	-	-	70.0E 25.0S (+/- 5.0)	89.0
1982 Mar 25 1725:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP18	-	-	70.0E 25.0S (+/- 5.0)	88.0
1982 Mar 27 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP19	-	-	70.0E 25.0S (+/- 5.0)	85.0
1982 Mar 27 1700:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP19	-	-	70.0E 25.0S (+/- 5.0)	85.0
1982 Mar 28 1630:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	90.0
1982 Mar 28 1735:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	90.0
1982 Mar 29 1600:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP20	-	-	70.0E 25.0S (+/- 5.0)	89.0
1982 Mar 29 1730:00	M-100	-	-	KORO	Akademik Korolev	GMS82B	LP20	-	-	70.0E 25.0S (+/- 5.0)	90.0
1983 Jun 15 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP1	-	-	90.0E 10.0S (+/- 5.0)	85.0
1983 Jun 19 1330:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP2	-	-	90.0E 10.0S (+/- 5.0)	90.0
1983 Jun 19 1530:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP3	-	-	90.0E 10.0S (+/- 5.0)	85.0
1983 Jun 21 1300:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP4	-	-	90.0E 10.0S (+/- 5.0)	83.0
1983 Jun 21 1450:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP4	-	-	90.0E 10.0S (+/- 5.0)	82.0
1983 Jun 28 0945:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP5	-	-	90.0E 10.0S (+/- 5.0)	85.0
1983 Jun 28 1107:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP5	-	-	90.0E 10.0S (+/- 5.0)	88.0
1983 Jun 30 1050:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP6	-	-	90.0E 10.0S (+/- 5.0)	85.0
1983 Jul 04 1000:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP7	-	-	90.0E 10.0S (+/- 5.0)	87.0
1983 Jul 05 0930:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP8	-	-	90.0E 10.0S (+/- 5.0)	88.0
1983 Jul 22 1545:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP9	-	-	90.0E 10.0S (+/- 5.0)	88.0
1983 Jul 22 1750:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP9	-	-	90.0E 10.0S (+/- 5.0)	82.0
1983 Aug 04 1632:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP10	-	-	90.0E 10.0S (+/- 5.0)	83.0
1983 Aug 05 1811:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP11	-	-	90.0E 10.0S (+/- 5.0)	86.0
1983 Aug 06 1746:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP12	-	-	90.0E 10.0S (+/- 5.0)	87.0
1983 Aug 06 1919:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP13	-	-	90.0E 10.0S (+/- 5.0)	86.0
1983 Aug 08 1825:00	M-100	-	-	KORO	Akademik Korolev	GMS83A	LP14	-	-	90.0E 10.0S (+/- 5.0)	76.0
1983 Aug 10 1632:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	85.0
1983 Aug 10 1756:00	M-100	-	-	KORO	Akademik Korolev	NER	-	-	-	90.0E 0.0N (+/- 2.0)	84.0
1987 Jan 26 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	87.0
1987 Jan 27 1900:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	83.0
1987 Feb 01 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	82.0
1987 Feb 02 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	85.0
1987 Feb 03 1817:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	70.0
1987 Feb 04 1900:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	82.0
1987 Feb 05 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	85.0
1987 Feb 06 1804:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	83.0
1987 Feb 07 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	87.0
1987 Feb 08 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	88.0
1987 Feb 09 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	82.0
1987 Feb 10 2000:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	80.0
1987 Feb 11 1805:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	83.0
1987 Feb 12 1800:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	86.0
1987 Mar 05 1226:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	84.0
1987 Mar 08 1124:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	78.0
1987 Mar 09 1000:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	84.0
1987 Mar 11 1006:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	87.0
1987 Mar 13 1100:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	80.0
1987 Mar 16 1200:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	87.0
1987 Mar 16 1300:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	89.0

Launches: KORO

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1987 Mar 18 1415:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	88.0
1987 Mar 19 1205:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	90.0
1987 Mar 19 1311:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	83.0
1987 Mar 20 1203:00	M-100B	-	-	KORO	Akademik Korolev	GMS87C	ULP1	-	-	-	91.0
1988 Dec 27 1134:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	82.0
1989 Jan 17 1400:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	80.0
1989 Jan 21 0400:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	81.0
1989 Jan 24 1000:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	77.0
1989 Jan 26 1100:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	78.0
1989 Feb 01 2000:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	83.0
1989 Feb 03 1500:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	67.0
1989 Mar 10 1514:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	78.0
1989 Mar 13 1605:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	78.0
1989 Mar 15 1545:00	M-100B	-	-	KORO	Akademik Korolev	GMS89A	ULP1	-	-	-	79.0

IV.1.4 US Rocket Launch Research Vessels

Updated: 2025 Jul 16 0237:13

US Rocket Launch Research Vessels

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Atka	USS Atka		AGB-3	USNB	Wind	AGB-3	-	- - -
USS Glacier	USS Glacier		AGB-4	USNB	Glacier	AGB-4	IMO6123672	1954 - 1966
USS Staten Island	USS Staten Island		AGB-5	USNB	Wind	AGB-5	-	1952 - 1974
USS Eastwind	USS Eastwind		WYG-279	USN	Wind	WYG-279	-	1944 - 1968
USS Norton Sound	USS Norton Sound		AVM1	NAMTC	Norton Sound	AVM-1	-	1951 - 1986
USS Ashland	USS Ashland		LSD-1	USNVA	Ashland	LSD-1	-	1955 - -
USS Rushmore	USS Rushmore		LSD-14	USN	Casa Grande	LSD-14	-	1956 - -
USS Colonial	USS Colonial		LSD-18	USN	Casa Grande	LSD-18	-	1956 - -
USS Plymouth Rock	USS Plymouth Rock		LSD-29	USN	Thomaston	LSD-29	-	1956 - -
USS Point Defiance	USS Point Defiance		LSD-31	USN	Thomaston	LSD-31	-	1956 - -

US Rocket Launch Research Vessels

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USNS Croatan, Wallops Mobile Range Facility	USNS Croatan, Wallops Mobile Range Facility		CVE-25	USN/NASA	Bogue	CVE-25	-	1964 - 1965
USNS Range Recoverer	USNS Range Recoverer		RREC	USN	-	-	-	1960 - 1972
USNS Wheeling	USNS Wheeling		T-AGM-8	USN	-	T-AGM-8	-	- - -
USAS American Mariner	USAS American Mariner		T-AGM-12	USN	-	T-AGM-12	-	- - -

IV.1.4.1 USS Atka

Credit: US Navy

The USCGC Southwind (WAG-280) was built in 1943 and transferred to the USSR in 1945-1949 as the Admiral Makarov, then transferred to USN as AGB-3 USS Atka. In 1966 she went back to USCG as the WAGB-280 USCGC Southwind. It was retired in 1974.

Rockets used: Deacon Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: AGB-3

LC_Code	Active	Region	Cruise	CruiseMap
USN54A	1954 Jul 15 - 1954 Jul 31	Atlantic Ocean	USS Eastwind, 1954 Arctic expedition	-

Updated: 2025 Jul 16 0237:13

Launches: AGB-3

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1954 Jul 16 1213	Deacon Rockoon	SUI 24	-	AGB-3	USS Atka	USN54A	LP1	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 16 2158	Deacon Rockoon	SUI 25	-	AGB-3	USS Atka	USN54A	LP1	-	-	66.7W 42.1N (+/- 0.0)	11.0
1954 Jul 19 1600	Deacon Rockoon	NRL Rockoon 7	-	AGB-3	USS Atka	USN54A	LP14	-	-	66.7W 42.1N (+/- 0.0)	88.0
1954 Jul 19 2030	Deacon Rockoon	SUI 26	-	AGB-3	USS Atka	USN54A	LP2	-	-	66.7W 42.1N (+/- 0.0)	43.0
1954 Jul 20 0255	Deacon Rockoon	NRL Rockoon 8	-	AGB-3	USS Atka	USN54A	LP15	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 21 0903	Deacon Rockoon	SUI 27	-	AGB-3	USS Atka	USN54A	LP3	-	-	66.7W 42.1N (+/- 0.0)	60.0
1954 Jul 21 1245	Deacon Rockoon	SUI 28	-	AGB-3	USS Atka	USN54A	LP4	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 21 2049	Deacon Rockoon	SUI 29	-	AGB-3	USS Atka	USN54A	LP5	-	-	66.7W 42.1N (+/- 0.0)	40.0
1954 Jul 23 1446	Deacon Rockoon	SUI 30	-	AGB-3	USS Atka	USN54A	LP6	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 23 1709	Deacon Rockoon	NRL Rockoon 9	-	AGB-3	USS Atka	USN54A	LP16	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 23 1754	Deacon Rockoon	SUI 31	-	AGB-3	USS Atka	USN54A	LP8	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 23 1937	Deacon Rockoon	SUI 32	-	AGB-3	USS Atka	USN54A	LP7	-	-	66.7W 42.1N (+/- 0.0)	23.0
1954 Jul 24 0857	Deacon Rockoon	SUI 33	-	AGB-3	USS Atka	USN54A	LP9	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 24 1316	Deacon Rockoon	SUI 34	-	AGB-3	USS Atka	USN54A	LP10	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 25 0651	Deacon Rockoon	SUI 35	-	AGB-3	USS Atka	USN54A	LP11	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 25 1236	Deacon Rockoon	SUI 36	-	AGB-3	USS Atka	USN54A	LP12	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 25 1530	Deacon Rockoon	SUI 37	-	AGB-3	USS Atka	USN54A	LP13	-	-	66.7W 42.1N (+/- 0.0)	90.0
1954 Jul 25 1845	Deacon Rockoon	NRL Rockoon 10	-	AGB-3	USS Atka	USN54A	LP17	-	-	66.7W 42.1N (+/- 0.0)	85.0
1954 Jul 26 0029	Deacon Rockoon	NRL Rockoon 11	-	AGB-3	USS Atka	USN54A	LP18	-	-	66.7W 42.1N (+/- 0.0)	10.0
1954 Jul 26 1102	Deacon Rockoon	NRL Rockoon 12	-	AGB-3	USS Atka	USN54A	LP19	-	-	66.7W 42.1N (+/- 0.0)	90.0

IV.1.4.2 USS Glacier

Photo # NH 67733 USS Glacier underway, 8 November 1955

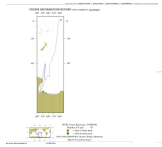
Credit: US Navy

AGB-4 USS Glacier built 1954, trasnferred to USCG Jun 1966, retired 1987.

Rockets used: Loki Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: AGB-4

LC_Code	Active	Region	Cruise	CruiseMap
USN57B	1957 Sep 23 - 1957 Nov 10	Atlantic and Pacific Oceans	1957 NRL USS Glacier cruise, Atlantic and Pacific Oceans	

Updated: 2025 Jul 16 0237:13

Launches: AGB-4

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1957 Sep 26 1821	Loki Rockoon	SUI 74	IGY II5.50F	AGB-4	USS Glacier	USN57B	LP1	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Sep 27 1427	Loki Rockoon	SUI 75	IGY II5.51F	AGB-4	USS Glacier	USN57B	LP2	-	-	1.0W 0.8N (+/- 0.0)	119.0
1957 Oct 4 2036	Loki Rockoon	SUI 76	IGY II5.52F	AGB-4	USS Glacier	USN57B	LP3	-	-	1.0W 0.8N (+/- 0.0)	113.0
1957 Oct 13 1815	Loki Rockoon	SUI 77	IGY II5.53F	AGB-4	USS Glacier	USN57B	LP4	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 14 2231	Loki Rockoon	SUI 78	IGY II5.54F	AGB-4	USS Glacier	USN57B	LP5	-	-	1.0W 0.8N (+/- 0.0)	113.0
1957 Oct 16 2117	Loki Rockoon	SUI 79	IGY II5.55F	AGB-4	USS Glacier	USN57B	LP6	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 17 0009	Loki Rockoon	SUI 80	IGY II5.56F	AGB-4	USS Glacier	USN57B	LP7	-	-	1.0W 0.8N (+/- 0.0)	0.0
1957 Oct 17 0218	Loki Rockoon	SUI 81	IGY II5.57F	AGB-4	USS Glacier	USN57B	LP8	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Oct 17 2116	Loki Rockoon	SUI 82	IGY II5.58F	AGB-4	USS Glacier	USN57B	LP9	-	-	1.0W 0.8N (+/- 0.0)	44.0
1957 Oct 18 0059	Loki Rockoon	SUI 83	IGY II5.59F	AGB-4	USS Glacier	USN57B	LP10	-	-	1.0W 0.8N (+/- 0.0)	127.0
1957 Oct 18 0935	Loki Rockoon	SUI 84	IGY II5.60F	AGB-4	USS Glacier	USN57B	LP11	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Oct 18 2058	Loki Rockoon	SUI 85	IGY II5.61F	AGB-4	USS Glacier	USN57B	LP12	-	-	1.0W 0.8N (+/- 0.0)	121.0
1957 Oct 19 0059	Loki Rockoon	SUI 86	IGY II5.62F	AGB-4	USS Glacier	USN57B	LP13	-	-	1.0W 0.8N (+/- 0.0)	121.0
1957 Oct 19 2007	Loki Rockoon	II5.63F	IGY II5.63F	AGB-4	USS Glacier	USN57B	LP14	-	-	1.0W 0.8N (+/- 0.0)	122.0
1957 Oct 20 0219	Loki Rockoon	II5.64F	IGY II5.64F	AGB-4	USS Glacier	USN57B	LP15	-	-	1.0W 0.8N (+/- 0.0)	104.0
1957 Oct 20 0357?	Loki Rockoon	II5.65F	IGY II5.65F	AGB-4	USS Glacier	USN57B	LP16	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 20 2011	Loki Rockoon	II5.66F	IGY II5.66F	AGB-4	USS Glacier	USN57B	LP17	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 22 2231	Loki Rockoon	II5.67F	IGY II5.67F	AGB-4	USS Glacier	USN57B	LP18	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 26 1947	Loki Rockoon	II5.68F	IGY II5.68F	AGB-4	USS Glacier	USN57B	LP19	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 27 0246	Loki Rockoon	II5.69F	IGY II5.69F	AGB-4	USS Glacier	USN57B	LP20	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Oct 29 0013	Loki Rockoon	II5.70F	IGY II5.70F	AGB-4	USS Glacier	USN57B	LP21	-	-	1.0W 0.8N (+/- 0.0)	8.0
1957 Oct 30 2250	Loki Rockoon	II5.71F	IGY II5.71F	AGB-4	USS Glacier	USN57B	LP22	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 31 0144	Loki Rockoon	II5.72F	IGY II5.72F	AGB-4	USS Glacier	USN57B	LP23	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Oct 31 1951	Loki Rockoon	II5.73F	IGY II5.73F	AGB-4	USS Glacier	USN57B	LP24	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Nov 1 0100	Loki Rockoon	II5.74F	IGY II5.74F	AGB-4	USS Glacier	USN57B	LP25	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Nov 3 2008	Loki Rockoon	II5.75F	IGY II5.75F	AGB-4	USS Glacier	USN57B	LP26	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Nov 4 0039	Loki Rockoon	II5.76F	IGY II5.76F	AGB-4	USS Glacier	USN57B	LP27	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Nov 4 0250	Loki Rockoon	II5.77F	IGY II5.77F	AGB-4	USS Glacier	USN57B	LP28	-	-	1.0W 0.8N (+/- 0.0)	113.0
1957 Nov 4 0347	Loki Rockoon	II5.78F	IGY II5.78F	AGB-4	USS Glacier	USN57B	LP29	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Nov 4 0716	Loki Rockoon	II5.79F	IGY II5.79F	AGB-4	USS Glacier	USN57B	LP30	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Nov 4 1852	Loki Rockoon	II5.80F	IGY II5.80F	AGB-4	USS Glacier	USN57B	LP31	-	-	1.0W 0.8N (+/- 0.0)	10.0
1957 Nov 5 0125	Loki Rockoon	II5.81F	IGY II5.81F	AGB-4	USS Glacier	USN57B	LP32	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Nov 5 2023	Loki Rockoon	II5.82F	IGY II5.82F	AGB-4	USS Glacier	USN57B	LP33	-	-	1.0W 0.8N (+/- 0.0)	97.0
1957 Nov 5 2317	Loki Rockoon	II5.83F	IGY II5.83F	AGB-4	USS Glacier	USN57B	LP34	-	-	1.0W 0.8N (+/- 0.0)	100.0
1957 Nov 8 2200	Loki Rockoon	II5.84F	IGY II5.84F	AGB-4	USS Glacier	USN57B	LP35	-	-	1.0W 0.8N (+/- 0.0)	110.0
1957 Nov 9 0000	Loki Rockoon	II5.85F	IGY II5.85F	AGB-4	USS Glacier	USN57B	LP36	-	-	1.0W 0.8N (+/- 0.0)	110.0

IV.1.4.3 USS Staten Island

Credit: US Navy

Built 1942 as USCGC Staten Island (WAGB-278), transferred to USSR as Sverny Veter, then returned to USN in 1951 at USS Northwind (AGB-5), renamed USS Staten Island 15 Apr 1952, transferred to USCG in 1965, retired 1974.

The USS Staten Island was based at Boston Naval Shipyard from 1952 to May 1955, and at Seattle from 1955 to 1973.

The 1953 expedition was part of Project Muskrat. The Staten Island left Boston on 1953 Jul 18 (Ludwig 2011).

Rockets used: Deacon Rockoon

Updated: 2025 Jul 16 0237:13

Launches: AGB-5

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1953 Jul 18 2227	Deacon Rockoon	SUI 8	-	AGB-5	USS Staten Island	USN53A	LP1	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Jul 19 1030	Deacon Rockoon	SUI 9	-	AGB-5	USS Staten Island	USN53A	LP2	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Jul 19 1553	Deacon Rockoon	SUI 10	-	AGB-5	USS Staten Island	USN53A	LP3	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Jul 19 2157	Deacon Rockoon	SUI 11	-	AGB-5	USS Staten Island	USN53A	LP4	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Jul 24 1640	Deacon Rockoon	SUI 12	-	AGB-5	USS Staten Island	USN53A	LP5	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Jul 28 0941	Deacon Rockoon	SUI 13	-	AGB-5	USS Staten Island	USN53A	LP6	-	-	70.4W 42.4N (+/- 0.0)	90.0
1953 Aug 3 1828	Deacon Rockoon	SUI 14	-	AGB-5	USS Staten Island	USN53A	LP7	-	-	70.4W 42.4N (+/- 0.0)	11.0
1953 Aug 5 2154	Deacon Rockoon	NRL Rockoon 1	-	AGB-5	USS Staten Island	USN53A	LP21	-	-	70.4W 42.4N (+/- 0.0)	80.0
1953 Aug 6 1507	Deacon Rockoon	SUI 15	-	AGB-5	USS Staten Island	USN53A	LP8	-	-	70.4W 42.4N (+/- 0.0)	68.0
1953 Aug 6 1840	Deacon Rockoon	SUI 16	-	AGB-5	USS Staten Island	USN53A	LP9	-	-	70.4W 42.4N (+/- 0.0)	96.0
1953 Aug 8 1509	Deacon Rockoon	NRL Rockoon 2	-	AGB-5	USS Staten Island	USN53A	LP22	-	-	70.4W 42.4N (+/- 0.0)	80.0
1953 Aug 9 0554	Deacon Rockoon	SUI 17	-	AGB-5	USS Staten Island	USN53A	LP10	-	-	70.4W 42.4N (+/- 0.0)	100.0
1953 Aug 9 1915	Deacon Rockoon	NRL Rockoon 3	-	AGB-5	USS Staten Island	USN53A	LP23	-	-	70.4W 42.4N (+/- 0.0)	38.0
1953 Aug 11 1709	Deacon Rockoon	NRL Rockoon 4	-	AGB-5	USS Staten Island	USN53A	LP24	-	-	70.4W 42.4N (+/- 0.0)	80.0

IV.1.4.4 USS Eastwind

Credit: US Navy

Ludwig (2011) reports that the Eastwind departed Thule, Greenland on 1952 Jul 29, the SUI team having flown to Thule to join it there. After a voyage to Alert Base (62.3E 82.5N) the Eastwind proceeded to Murchison Sound for the launches, and returned to Thule on 1952 Sep 5.

Rockets used: Deacon Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: WYG-279

LC_Code	Active	Region	Cruise	CruiseMap
USN52A	1952 Aug 15 - 1952 Sep 15	Arctic Ocean	Eastwind 1952 Arctic expedition	-
USN53B	1953 Aug 15 - 1953 Sep 15	Atlantic Ocean	USS Eastwind, 1953 Arctic expedition	-

Updated: 2025 Jul 16 0237:13

Launches: WYG-279

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1952 Aug 21 0625	Deacon Rockoon	SUI 1	-	WYG-279	USS Eastwind	USN52A	LP1	-	-	68.5W 80.1N (+/- 0.1)	11.0
1952 Aug 24 0334	Deacon Rockoon	SUI 2	-	WYG-279	USS Eastwind	USN52A	LP2	-	-	68.5W 80.1N (+/- 0.1)	11.0
1952 Aug 29 0026	Deacon Rockoon	SUI 3	-	WYG-279	USS Eastwind	USN52A	LP3	-	-	68.5W 80.1N (+/- 0.1)	61.0
1952 Aug 29 0736	Deacon Rockoon	SUI 4	-	WYG-279	USS Eastwind	USN52A	LP4	-	-	68.5W 80.1N (+/- 0.1)	60.0
1952 Aug 29 1815	Deacon Rockoon	SUI 5	-	WYG-279	USS Eastwind	USN52A	LP5	-	-	68.5W 80.1N (+/- 0.1)	90.0
1952 Aug 31 2110	Deacon Rockoon	SUI 6	-	WYG-279	USS Eastwind	USN52A	LP6	-	-	68.5W 80.1N (+/- 0.1)	60.0
1952 Sep 4 0917	Deacon Rockoon	SUI 7	-	WYG-279	USS Eastwind	USN52A	LP7	-	-	68.5W 80.1N (+/- 0.1)	60.0
1953 Aug 30 1400	Deacon Rockoon	SUI 18	-	WYG-279	USS Eastwind	USN53B	LP11	-	-	55.1W 53.1N (+/- 0.0)	11.0
1953 Aug 30 1620	Deacon Rockoon	SUI 19	-	WYG-279	USS Eastwind	USN53B	LP12	-	-	55.1W 53.1N (+/- 0.0)	11.0
1953 Aug 30 2046	Deacon Rockoon	SUI 20	-	WYG-279	USS Eastwind	USN53B	LP13	-	-	55.1W 53.1N (+/- 0.0)	100.0
1953 Sep 3 0950	Deacon Rockoon	SUI 21	-	WYG-279	USS Eastwind	USN53B	LP14	-	-	55.1W 53.1N (+/- 0.0)	90.0
1953 Sep 3 1151	Deacon Rockoon	SUI 22	-	WYG-279	USS Eastwind	USN53B	LP15	-	-	55.1W 53.1N (+/- 0.0)	100.0
1953 Sep 3 1405	Deacon Rockoon	SUI 23	-	WYG-279	USS Eastwind	USN53B	LP16	-	-	55.1W 53.1N (+/- 0.0)	100.0
1953 Sep 4 0359	Deacon Rockoon	NRL Rockoon 5	-	WYG-279	USS Eastwind	USN53B	LP25	-	-	55.1W 53.1N (+/- 0.0)	70.0
1953 Sep 4 1551	Deacon Rockoon	NRL Rockoon 6	-	WYG-279	USS Eastwind	USN53B	LP26	-	-	55.1W 53.1N (+/- 0.0)	70.0

IV.1.4.5 USS Norton Sound

Credit: US Navy

Rockets used: Aerobee RTV-N-8,Aerobee RTV-N-10,Viking,X-17,Deacon,Hydra-Iris,Hydra Sandhawk

Updated: 2025 Jul 16 0237:13

Cruises: AVM1

LC_Code	Active	Region	Cruise	CruiseMap
USN49A	1949 Mar 15 - 1949 Mar 31	Pacific Ocean	APL Aerobee cruise	-
USN50A	1950 Jan 15 - 1950 Jan 31	Bering Sea	USS Norton Sound, 1950 Bering Sea expedition	-
USN58B	1958 Aug 15 - 1958 Sep 15	Tristan de Cunha, Atlantic Ocean	USS Norton Sound, 1958 Argus expedition	-

Updated: 2025 Jul 16 0237:13

Launches: AVM1

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1949 Mar 17 2320	Aerobee RTV-N-8	-	-	AVM1	USS Norton Sound	USN49A	LP1	-	-	88.4W 11.1S (+/- 0.0)	105.0
1949 Mar 22 1720	Aerobee RTV-N-8	-	-	AVM1	USS Norton Sound	USN49A	LP1	-	-	88.4W 11.1S (+/- 0.0)	105.0
1949 Mar 24 1514	Aerobee RTV-N-8	-	-	AVM1	USS Norton Sound	USN49A	LP2	-	-	88.4W 11.1S (+/- 0.0)	5.0
1950 Jan 15 2345	Aerobee RTV-N-10	-	-	AVM1	USS Norton Sound	USN50A	LP1	-	-	170.0W 58.0N (+/- 9.0)	72.0
1950 Jan 18 2317	Aerobee RTV-N-10	-	-	AVM1	USS Norton Sound	USN50A	LP2	-	-	170.0W 58.0N (+/- 9.0)	80.0
1950 May 12 0308	Viking	Viking 4	-	AVM1	USS Norton Sound	JARV	LP1	-	-	161.4W 0.2N (+/- 0.0)	171.0
1958 Jul 2	X-17	Argus test	-	AVM1	USS Norton Sound	WTR	SCL LP1	-	-	119.0W 33.0N (+/- 3.0)	560.0
1958 Jul 9?	X-17	Argus test	-	AVM1	USS Norton Sound	WTR	SCL LP1	-	-	119.0W 33.0N (+/- 3.0)	10.0
1958 Jul 17?	X-17	Argus test	-	AVM1	USS Norton Sound	WTR	SCL LP1	-	-	119.0W 33.0N (+/- 3.0)	0.0
1958 Jul 24	X-17	Argus test	-	AVM1	USS Norton Sound	WTR	SCL LP1	-	-	119.0W 33.0N (+/- 3.0)	672.0
1958 Aug 25	Deacon	Pogo Target	-	AVM1	USS Norton Sound	USN58B	-	-	-	11.5W 38.5S (+/- 0.1)	30.0
1958 Aug 25	Deacon	Pogo Target	-	AVM1	USS Norton Sound	USN58B	-	-	-	11.5W 38.5S (+/- 0.1)	30.0
1958 Aug 25	Deacon	Pogo Target	-	AVM1	USS Norton Sound	USN58B	-	-	-	11.5W 38.5S (+/- 0.1)	30.0
1958 Aug 26	Deacon	Pogo Target	-	AVM1	USS Norton Sound	USN58B	-	-	-	11.5W 38.5S (+/- 0.1)	30.0
1958 Aug 27 0220	X-17	Argus I	-	AVM1	USS Norton Sound	USN58B	LP1	-	-	11.5W 38.5S (+/- 0.1)	160.0
1958 Aug 30 0310	X-17	Argus II	-	AVM1	USS Norton Sound	USN58B	LP2	-	-	11.5W 38.5S (+/- 0.1)	293.0
1958 Sep 6 2205	X-17	Argus III	-	AVM1	USS Norton Sound	USN58B	LP3	-	-	11.5W 38.5S (+/- 0.1)	750.0
1968 Mar 20 1955:05	Hydra-Iris	LRL BAR-1/FL-B	-	AVM1	USS Norton Sound	HYD	LP3	-	-	120.0W 30.0N (+/- 0.5)	195.0
1971 Nov 18 0704:52	Hydra Sandhawk	LRL BOX-17	-	AVM1	USS Norton Sound	HYD	LP5	-	-	120.0W 30.0N (+/- 0.5)	267.0

IV.1.4.6 USS Ashland

Credit: US Navy

Built 1942, recommissioned 1950, retired 1969.

The USS Ashland was based in Boston.

Rockets used: Loki Rockoon,Deacon Rockoon,Deacon-Loki Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: LSD-1

LC_Code	Active	Region	Cruise	CruiseMap
USN55A	1955 Sep 15 - 1955 Oct 15	Atlantic Ocean	USS Staten Island, 1955 Arctic expedition	-

Updated: 2025 Jul 16 0237:13

Launches: LSD-1

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1955 Sep 23 2034	Loki Rockoon	SUI 38	-	LSD-1	USS Ashland	USN55A	LP1	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 24 1635	Deacon Rockoon	SUI 39	-	LSD-1	USS Ashland	USN55A	LP2	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 24 2109	Loki Rockoon	SUI 40	-	LSD-1	USS Ashland	USN55A	LP3	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 25 2039	Loki Rockoon	SUI 41	-	LSD-1	USS Ashland	USN55A	LP4	-	-	66.2W 42.7N (+/- 0.0)	11.0
1955 Sep 27 1912	Deacon Rockoon	NRL Rockoon 14	-	LSD-1	USS Ashland	USN55A	LP20	-	-	66.2W 42.7N (+/- 0.0)	11.0
1955 Sep 27 1943	Deacon Rockoon	NRL Rockoon 13	-	LSD-1	USS Ashland	USN55A	LP19	-	-	66.2W 42.7N (+/- 0.0)	90.0
1955 Sep 27 2054	Deacon Rockoon	SUI 42	-	LSD-1	USS Ashland	USN55A	LP5	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 28 0113	Loki Rockoon	SUI 43	-	LSD-1	USS Ashland	USN55A	LP6	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 28 1245	Deacon Rockoon	NRL Rockoon 15	-	LSD-1	USS Ashland	USN55A	LP21	-	-	66.2W 42.7N (+/- 0.0)	90.0
1955 Sep 28 1454	Deacon Rockoon	SUI 44	-	LSD-1	USS Ashland	USN55A	LP7	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 28 1740	Deacon Rockoon	NRL Rockoon 16	-	LSD-1	USS Ashland	USN55A	LP22	-	-	66.2W 42.7N (+/- 0.0)	11.0
1955 Sep 28 1922	Deacon-Loki Rockoon	SUI 45	-	LSD-1	USS Ashland	USN55A	LP8	-	-	66.2W 42.7N (+/- 0.0)	102.0
1955 Sep 29 1342	Deacon Rockoon	SUI 46	-	LSD-1	USS Ashland	USN55A	LP9	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 29 1913	Deacon Rockoon	SUI 47	-	LSD-1	USS Ashland	USN55A	LP10	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 29 2152	Deacon-Loki Rockoon	SUI 48	-	LSD-1	USS Ashland	USN55A	LP11	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Sep 30 2010	Loki Rockoon	SUI 49	-	LSD-1	USS Ashland	USN55A	LP12	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Oct 4 2118	Loki Rockoon	SUI 50	-	LSD-1	USS Ashland	USN55A	LP13	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Oct 6 1054	Deacon Rockoon	NRL Rockoon 17	-	LSD-1	USS Ashland	USN55A	LP23	-	-	66.2W 42.7N (+/- 0.0)	11.0
1955 Oct 6 1910	Deacon Rockoon	SUI 51	-	LSD-1	USS Ashland	USN55A	LP14	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Oct 11 1433	Deacon Rockoon	SUI 52	-	LSD-1	USS Ashland	USN55A	LP15	-	-	66.2W 42.7N (+/- 0.0)	20.0
1955 Oct 11 1437	Deacon Rockoon	NRL Rockoon 18	-	LSD-1	USS Ashland	USN55A	LP24	-	-	66.2W 42.7N (+/- 0.0)	90.0
1955 Oct 13 0637	Deacon Rockoon	NRL Rockoon 19	-	LSD-1	USS Ashland	USN55A	LP25	-	-	66.2W 42.7N (+/- 0.0)	60.0
1955 Oct 13 1244	Deacon Rockoon	SUI 53	-	LSD-1	USS Ashland	USN55A	LP16	-	-	66.2W 42.7N (+/- 0.0)	100.0
1955 Oct 13 1342	Deacon Rockoon	NRL Rockoon 20	-	LSD-1	USS Ashland	USN55A	LP26	-	-	66.2W 42.7N (+/- 0.0)	50.0
1955 Oct 13 1524	Deacon Rockoon	SUI 54	-	LSD-1	USS Ashland	USN55A	LP17	-	-	66.2W 42.7N (+/- 0.0)	20.0
1955 Oct 13 2013	Deacon Rockoon	SUI 55	-	LSD-1	USS Ashland	USN55A	LP18	-	-	66.2W 42.7N (+/- 0.0)	100.0

IV.1.4.7 USS Rushmore

Credit: US Navy

Built 1944, retired 1993.

Rockets used: Nike Cajun

Updated: 2025 Jul 16 0237:13

Cruises: LSD-14

LC_Code	Active	Region	Cruise	CruiseMap
USN56B	1956 Oct 15 - 1956 Nov 15	Atlantic Ocean	USS Rushmore U. Michigan Cruise 1956	-

Updated: 2025 Jul 16 0237:13

Launches: LSD-14

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Oct 27 2124	Nike Cajun	UM AM6.08 Sphere	IGY AM6.08	LSD-14	USS Rushmore	USN56B	LP1	-	-	71.0W 40.0N (+/- 0.5)	161.0
1956 Nov 2 1840	Nike Cajun	UM AM6.09 Sphere	IGY AM6.09	LSD-14	USS Rushmore	USN56B	LP2	-	-	71.0W 40.0N (+/- 0.5)	131.0
1956 Nov 4 1854	Nike Cajun	UM AM6.10 Sphere	IGY AM6.09	LSD-14	USS Rushmore	USN56B	LP3	-	-	71.0W 40.0N (+/- 0.5)	162.0
1956 Nov 7 1502	Nike Cajun	UM AM6.11 Sphere	IGY AM6.11	LSD-14	USS Rushmore	USN56B	LP4	-	-	71.0W 40.0N (+/- 0.5)	169.0
1956 Nov 10 1517	Nike Cajun	UM AM6.12 Sphere	IGY AM6.12	LSD-14	USS Rushmore	USN56B	LP5	-	-	71.0W 40.0N (+/- 0.5)	161.0

IV.1.4.8 USS Colonial

Credit: US Navy

Built 1945, retired 1993

Rockets used: Deacon Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: LSD-18

LC_Code	Active	Region	Cruise	CruiseMap
USN56A	1956 Jul 15 - 1956 Jul 31	Pacific Ocean	1956 NRL Cruise (Operation San Diego High)	-

Updated: 2025 Jul 16 0237:13

Launches: LSD-18

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Jul 17 1940	Deacon Rockoon	NRL NN5.27	IGY NN5.27	LSD-18	USS Colonial	USN56A	LP1	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 18 2000	Deacon Rockoon	NRL NN5.28	IGY NN5.28	LSD-18	USS Colonial	USN56A	LP2	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 19 1932	Deacon Rockoon	NRL NN5.29	IGY NN5.29	LSD-18	USS Colonial	USN56A	LP3	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 20 1915	Deacon Rockoon	NRL NN5.30	IGY NN5.30	LSD-18	USS Colonial	USN56A	LP4	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 21 2200	Deacon Rockoon	NRL NN5.31	IGY NN5.31	LSD-18	USS Colonial	USN56A	LP5	-	-	121.6W 29.7N (+/- 0.0)	11.0
1956 Jul 22 1910	Deacon Rockoon	NRL NN5.32	IGY NN5.32	LSD-18	USS Colonial	USN56A	LP6	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 24 1910	Deacon Rockoon	NRL NN5.33	IGY NN5.33	LSD-18	USS Colonial	USN56A	LP7	-	-	121.6W 29.7N (+/- 0.0)	11.0
1956 Jul 25 2115	Deacon Rockoon	NRL NN5.34	IGY NN5.34	LSD-18	USS Colonial	USN56A	LP8	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 26 2100	Deacon Rockoon	NRL NN5.35	IGY NN5.35	LSD-18	USS Colonial	USN56A	LP9	-	-	121.6W 29.7N (+/- 0.0)	120.0
1956 Jul 27 1705	Deacon Rockoon	NRL NN5.36	IGY NN5.36	LSD-18	USS Colonial	USN56A	LP10	-	-	121.6W 29.7N (+/- 0.0)	5.0

IV.1.4.9 USS Plymouth Rock

Credit: US Navy

Rockets used: Loki Rockoon

Updated: 2025 Jul 16 0237:13

Cruises: LSD-29

LC_Code	Active	Region	Cruise	CruiseMap
USN57A	1957 Aug 1 - 1957 Aug 20	Atlantic Ocean	1957 NRL USS Plymouth Rock Cruise, Atlantic Ocean	-

Updated: 2025 Jul 16 0237:13

Launches: LSD-29

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1957 Aug 5 1322	Loki Rockoon	SUI 56	IGY II5.01F	LSD-29	USS Plymouth Rock	USN57A	LP1	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 5 1659	Loki Rockoon	SUI 57	IGY II5.02F	LSD-29	USS Plymouth Rock	USN57A	LP2	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 6 1313	Loki Rockoon	SUI 58	IGY II5.03F	LSD-29	USS Plymouth Rock	USN57A	LP3	-	-	54.0W 55.0N (+/- 0.0)	116.0
1957 Aug 6 1723	Loki Rockoon	SUI 59	IGY II5.04F	LSD-29	USS Plymouth Rock	USN57A	LP4	-	-	54.0W 55.0N (+/- 0.0)	117.0
1957 Aug 7 0328	Loki Rockoon	SUI 60	IGY II5.05F	LSD-29	USS Plymouth Rock	USN57A	LP5	-	-	54.0W 55.0N (+/- 0.0)	10.0
1957 Aug 7 2204	Loki Rockoon	SUI 61	IGY II5.06F	LSD-29	USS Plymouth Rock	USN57A	LP6	-	-	54.0W 55.0N (+/- 0.0)	10.0
1957 Aug 8 0717	Loki Rockoon	SUI 62	IGY II5.07F	LSD-29	USS Plymouth Rock	USN57A	LP7	-	-	54.0W 55.0N (+/- 0.0)	132.0
1957 Aug 10 0629	Loki Rockoon	SUI 63	IGY II5.08F	LSD-29	USS Plymouth Rock	USN57A	LP8	-	-	54.0W 55.0N (+/- 0.0)	117.0
1957 Aug 10 2336	Loki Rockoon	SUI 64	IGY II5.09F	LSD-29	USS Plymouth Rock	USN57A	LP9	-	-	54.0W 55.0N (+/- 0.0)	77.0
1957 Aug 11 0516	Loki Rockoon	SUI 65	IGY II5.10F	LSD-29	USS Plymouth Rock	USN57A	LP10	-	-	54.0W 55.0N (+/- 0.0)	10.0
1957 Aug 11 2030	Loki Rockoon	SUI 66	IGY II5.11F	LSD-29	USS Plymouth Rock	USN57A	LP11	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 12 0748	Loki Rockoon	SUI 67	IGY II5.12F	LSD-29	USS Plymouth Rock	USN57A	LP12	-	-	54.0W 55.0N (+/- 0.0)	10.0
1957 Aug 12 1515	Loki Rockoon	SUI 68	IGY II5.13F	LSD-29	USS Plymouth Rock	USN57A	LP13	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 13 0158	Loki Rockoon	SUI 69	IGY II5.14F	LSD-29	USS Plymouth Rock	USN57A	LP14	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 14 0924	Loki Rockoon	SUI 70	IGY II5.15F	LSD-29	USS Plymouth Rock	USN57A	LP15	-	-	54.0W 55.0N (+/- 0.0)	100.0
1957 Aug 14 1507	Loki Rockoon	SUI 71	IGY II5.16F	LSD-29	USS Plymouth Rock	USN57A	LP16	-	-	54.0W 55.0N (+/- 0.0)	97.0
1957 Aug 14 2119	Loki Rockoon	SUI 72	IGY II5.17F	LSD-29	USS Plymouth Rock	USN57A	LP17	-	-	54.0W 55.0N (+/- 0.0)	130.0
1957 Aug 15 0011	Loki Rockoon	SUI 73	IGY II5.18F	LSD-29	USS Plymouth Rock	USN57A	LP18	-	-	54.0W 55.0N (+/- 0.0)	97.0

IV.1.4.10 USS Point Defiance

Credit: US Navy

Rockets used: Nike Asp,Arcas

Updated: 2025 Jul 16 0237:13

Cruises: LSD-31

LC_Code	Active	Region	Cruise	CruiseMap
USN58C	1958 Sep 15 - 1958 Oct 15	Pacific Ocean	1958 Point Defiance Expedition, Danger Is., Pacific Ocean	-

Updated: 2025 Jul 16 0237:13

Launches: LSD-31

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Sep 28 1942	Nike Asp	-	IGY NN8.57F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	225.0
1958 Oct 1 1942	Nike Asp	-	IGY NN8.58F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	56.0
1958 Oct 12 1932:06	Nike Asp	-	IGY NN8.59F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	222.0
1958 Oct 12 1942:03	Nike Asp	-	IGY NN8.60F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	236.0
1958 Oct 12 1943:18	Nike Asp	-	IGY NN8.61F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	242.0
1958 Oct 12 1952:49	Nike Asp	-	IGY NN8.62F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	240.0
1958 Oct 12 2010:09	Nike Asp	-	IGY NN8.63F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	88.0
1958 Oct 13 1939:56	Nike Asp	-	IGY NN8.64F	LSD-31	USS Point Defiance	USN58C	LP1	-	-	165.5W 10.3S (+/- 0.0)	225.0
1961 Jun	Arcas	HYDRA Arcas	-	LSD-31	USS Point Defiance	HYDS	LP1	-	-	120.0W 0.0N (+/- 1.0)	60.0

IV.1.4.11 USNS Croatan, Wallops Mobile Range Facility

Credit: NASA

Built 1942 as USS Croatan; Became non-commissioned USNS Croatan in 1958. Assigned to NASA Oct 1964-May 1965. Scrapped 1971.

Rockets used: Nike Apache,Nike Cajun,Arcas,Loki Dart

Updated: 2025 Jul 16 0237:13

Cruises: CVE-25

LC_Code	Active	Region	Cruise	CruiseMap
NASA64	1964 Nov 1 - 1964 Nov 30	Atlantic Ocean	1964 Croatan MRF Expedition	-
NASA65	1965 Feb 15 - 1965 Apr 30	Atlantic Ocean	1965 Croatan MRF Expedition	-

Updated: 2025 Jul 16 0237:13

Launches: CVE-25

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Nov 10 2225	Nike Apache	GCA Release 39 Na	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP1	-	-	75.0W 38.0N (+/- 2.0)	198.0
1964 Nov 11 2224	Nike Apache	GCA Release 41 Na	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP2	-	-	75.0W 38.0N (+/- 2.0)	156.0
1964 Nov 12 1053	Nike Apache	GCA Release 43 Na	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP3	-	-	75.0W 38.0N (+/- 2.0)	204.0
1964 Nov 17 1749	Nike Apache	Density	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP4	-	-	75.0W 38.0N (+/- 2.0)	194.0
1964 Nov 17 2110	Nike Cajun	Density	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP5	-	-	75.0W 38.0N (+/- 2.0)	160.0
1964 Nov 19 1834	Nike Apache	UM Pitot 7?	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP6	-	-	75.0W 38.0N (+/- 2.0)	14.0
1964 Nov 19 2202	Nike Apache	UIUC IQSY Ionos	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA64	LP7	-	-	75.0W 38.0N (+/- 2.0)	170.0
1965 Feb 27 2133	Nike Cajun	Density	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP1	-	-	75.0W 38.0N (+/- 5.0)	100.0
1965 Mar 7	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP43	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 8 1535	Nike Apache	B Field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP2	-	-	75.0W 38.0N (+/- 5.0)	151.0
1965 Mar 8 1748:08	Nike Apache	UM Pitot 8	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP2	-	-	75.0W 38.0N (+/- 5.0)	141.0
1965 Mar 9	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP44	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 9 0626:26	Nike Apache	UM Pitot 9	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP3	-	-	75.0W 38.0N (+/- 5.0)	143.0
1965 Mar 9 1625	Nike Apache	UNH 65-2	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP4	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 10 1600	Nike Apache	UNH 65-3	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP5	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 11	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP45	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 11 0935:14	Nike Apache	Composition(Tropics)	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP6	-	-	75.0W 38.0N (+/- 5.0)	197.0
1965 Mar 11 1038	Nike Cajun	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP7	-	-	75.0W 38.0N (+/- 5.0)	100.0
1965 Mar 11 2007	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP8	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 12 1330	Nike Apache	UNH 65-4	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP9	-	-	75.0W 38.0N (+/- 5.0)	178.0
1965 Mar 12 1600	Nike Apache	UNH 65-5	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP9	-	-	75.0W 38.0N (+/- 5.0)	175.0
1965 Mar 16	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP46	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 16 1615	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP10	-	-	75.0W 38.0N (+/- 5.0)	172.0
1965 Mar 16 1651	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP11	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 17	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP47	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 18	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP48	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 18 0604	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP12	-	-	75.0W 38.0N (+/- 5.0)	150.0
1965 Mar 18 0641	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP13	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 18 1601	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP14	-	-	75.0W 38.0N (+/- 5.0)	149.0
1965 Mar 18 1638	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP15	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 19	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP49	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 20 1320:09	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP16	-	-	75.0W 38.0N (+/- 5.0)	174.0
1965 Mar 20 1628	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP17	-	-	75.0W 38.0N (+/- 5.0)	201.0
1965 Mar 20 1704:13	Nike Cajun	Electron density	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP18	-	-	75.0W 38.0N (+/- 5.0)	122.0
1965 Mar 21	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP50	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 22	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP51	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 22 0744	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP19	-	-	75.0W 38.0N (+/- 5.0)	206.0
1965 Mar 22 0849:10	Nike Cajun	Electron density	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP20	-	-	75.0W 38.0N (+/- 5.0)	120.0
1965 Mar 23 0931:09	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP18	-	-	75.0W 38.0N (+/- 5.0)	165.0
1965 Mar 24	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP52	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 24 1634	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP22	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 24 1707	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP23	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 25	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP53	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 25 1600	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP24	-	-	75.0W 38.0N (+/- 5.0)	100.0
1965 Mar 26 1541	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP25	-	-	75.0W 38.0N (+/- 5.0)	155.0
1965 Mar 26 1613	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP26	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 27	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP54	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 27 0300	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP27	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 27 1808	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP28	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Mar 28	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP55	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Mar 28 1550	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP29	-	-	75.0W 38.0N (+/- 5.0)	129.0
1965 Mar 29 1547	Nike Apache	B field	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP30	-	-	75.0W 38.0N (+/- 5.0)	172.0
1965 Mar 29 1547	Nike Cajun	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP30	-	-	75.0W 38.0N (+/- 5.0)	172.0
1965 Apr 2	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP56	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 2 1322	Nike Apache	UNH Particles	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP31	-	-	75.0W 38.0N (+/- 5.0)	200.0

Launches: CVE-25

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Apr 3	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP57	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 4	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP58	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 4 1606:35	Nike Apache	UM Pitot 10	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP32	-	-	75.0W 38.0N (+/- 5.0)	139.0
1965 Apr 5	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP59	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 5	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP60	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 5 1345:53	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP33	-	-	75.0W 38.0N (+/- 5.0)	177.0
1965 Apr 5 1942	Nike Apache	UNH Particles	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP34	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Apr 6	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP61	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 6 1634:05	Nike Apache	UM Pitot 11	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP35	-	-	75.0W 38.0N (+/- 5.0)	142.0
1965 Apr 8	Loki Dart	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP62	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 9 1918:15	Nike Apache	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP36	-	-	75.0W 38.0N (+/- 5.0)	191.0
1965 Apr 9 2026:10	Nike Apache	UM Pitot 12	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP37	-	-	75.0W 38.0N (+/- 5.0)	147.0
1965 Apr 10	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP63	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 11	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP64	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 11	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP65	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 12 1714:02	Nike Apache	UIUC-GCA Ionos 7	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP38	-	-	75.0W 38.0N (+/- 5.0)	187.0
1965 Apr 13	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP66	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 13 0405:06	Nike Apache	UM Pitot 13	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP39	-	-	75.0W 38.0N (+/- 5.0)	150.0
1965 Apr 13 1600:09	Nike Apache	UM Pitot 14	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP39	-	-	75.0W 38.0N (+/- 5.0)	146.0
1965 Apr 13 1710	Nike Apache	UNH Particles	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP39	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Apr 13 1906	Nike Apache	Composition	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP40	-	-	75.0W 38.0N (+/- 5.0)	200.0
1965 Apr 14	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP67	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 15	Arcas	-	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP68	-	-	75.0W 38.0N (+/- 5.0)	60.0
1965 Apr 15 1600:04	Nike Apache	UM Pitot 15	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP41	-	-	75.0W 38.0N (+/- 5.0)	140.0
1965 Apr 15 1802	Nike Apache	Composition	-	CVE-25	USNS Croatan, Wallops Mobile Range Facility	NASA65	LP42	-	-	75.0W 38.0N (+/- 5.0)	200.0

IV.1.4.12 USNS Range Recoverer

Credit: US Navy

Built 1944 as FS-278, converted to MSTS T-AG-161 in 1960, and then to T-AGM-2/USNS Range Recoverer in Nov 1960.

Note: A Feb 1966 mid-Atlantic Arcas launch was reported by the IRIG Meteorological Working Group (Document 109-62, Vol LIV, Feb 1966 Firings) as being from 'Ship Sierra'. This might be the USS Sierra, but there's no other indication it was ever involved in weather rocket firings. It seems more likely that 'Sierra' is just a code letter S in the phonetic alphabet (perhaps as Quebec and Victor were associated with the range ships Coastal Sentry and Rose Knot). I further speculate that the firing was a proof of concept precursor to the Zorba eclipse firings, and that Ship Sierra was in fact the Range Recoverer; obviously this is a rather tenuous guess.

Rockets used: Boosted Arcas

Updated: 2025 Jul 16 0237:13

Cruises: RREC

LC_Code	Active	Region	Cruise	CruiseMap
USN66A	1966 Feb 1 - 1966 Feb 15	Atlantic Ocean	Ship Sierra point, Feb 1966 [Unknown USN vessel maybe Range Rec.]	-

Updated: 2025 Jul 16 0237:13

Launches: RREC

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Feb 10 1059	Boosted Arcas	Arcasonde IIA	-	RREC	USNS Range Recoverer	USN66A	LP1	-	-	63.5W 26.6N (+/- 0.1)	60.0
1966 May 15 1043	Boosted Arcas	Zorba I (Test)	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	20.0
1966 May 20 0800	Boosted Arcas	Zorba II	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	90.0
1966 May 20 0845	Boosted Arcas	Zorba III	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	99.0
1966 May 20 0930	Boosted Arcas	Zorba IV	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	102.0
1966 May 20 1015	Boosted Arcas	Zorba V	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	90.0
1966 May 20 1105	Boosted Arcas	Zorba VI	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	101.0
1966 May 21 0930	Boosted Arcas	Zorba VII	-	RREC	USNS Range Recoverer	KOR	LP1	-	-	21.9E 36.8N (+/- 0.0)	90.0

IV.1.4.13 USNS Wheeling

Credit: US Navy

The commercial ship Seton Hall Victory was built in 1945 and converted to the missile range instrumentation ship AGM-8 Wheeling, for Pacific Missile Range support. It supported the Lawrence Livermore Lab Hydra sounding rocket program.

Rockets used: Hydra-Iris,Hydra Sandhawk

Updated: 2025 Jul 16 0237:13

Cruises: T-AGM-8

LC_Code	Active	Region	Cruise	CruiseMap
USN65A	1965 Jan 1 - 1965 Jan 31	Atlantic Ocean	USNS Wheeling, 1965 Hydra-Iris SAA expedition	-

Updated: 2025 Jul 16 0237:13

Launches: T-AGM-8

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Aug 10	Hydra-Iris	LRL GSP-1	-	T-AGM-8	USNS Wheeling	WTR	HLP1	-	-	119.0W 33.0N (+/- 3.0)	200.0
1965 Jan 7	Hydra-Iris	LRL SAP-1	-	T-AGM-8	USNS Wheeling	USN65A	LP1	-	-	27.4W 56.5S (+/- 0.0)	2.0
1965 Jan 26 0940:26	Hydra-Iris	LRL SAP-2 (SAA)	-	T-AGM-8	USNS Wheeling	USN65A	LP2	-	-	27.4W 56.5S (+/- 0.0)	289.0
1965 Oct 28 1801:50	Hydra-Iris	LRL BOX-2	-	T-AGM-8	USNS Wheeling	HYD	LP1	-	-	120.0W 30.0N (+/- 0.5)	194.0
1966 May 31 1716	Hydra-Iris	LRL BOX-4	-	T-AGM-8	USNS Wheeling	HYDS	LP2	-	-	120.0W 0.0N (+/- 1.0)	188.0
1966 Oct 30 1745	Hydra-Iris	LRL BOX-5/FL-B	-	T-AGM-8	USNS Wheeling	HYD	LP2	-	-	120.0W 30.0N (+/- 0.5)	12.0
1968 Nov 3 1800	Hydra-Iris	LRL BOX-15	-	T-AGM-8	USNS Wheeling	HYD	LP4	-	-	120.0W 30.0N (+/- 0.5)	227.0
1973 Apr 26 0620:00	Hydra Sandhawk	LRL BOX-18	-	T-AGM-8	USNS Wheeling	HYD	LP5	-	-	120.0W 30.0N (+/- 0.5)	262.0

IV.1.4.14 USAS American Mariner

Credit: US Navy

Credit: US Navy

The TS American Mariner operated as a USCG training ship from 1941 to 1953. In 1953 it was transferred to the US Army and became the USAS American Mariner; it supported the US Army/ARPA DAMP reentry tracking project in 1959-63, during which it launched at least one Arcas rocket off the coast of Cape Canaveral. In 1963-4 it was transferred briefly to the USAF and then in Jan 1964 to the US Navy as USNS American Mariner. The ship was retired in 1966.

Rockets used: Arcas

Updated: 2025 Jul 16 0237:13

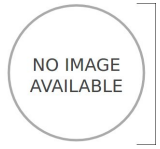
Launches: T-AGM-12

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Apr 20	Arcas	-	-	T-AGM-12	USAS American Mariner	ETR	LP2	-	-	79.0W 28.5N (+/- 2.0)	40.0

IV.1.5 US Missile Test Launch Vessels

Updated: 2025 Jul 16 0237:13

US Missile Test Launch Vessels

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Midway	USS Midway		CV-41	USNVA	Midway	CV-41	-	1947 - -
USS Hazelwood	USS Hazelwood		DD-531	USN	Fletcher	DD-531	-	1958 - -
USS Kyes	USS Kyes		DD-787	USN	Gearing	DD-787	-	1956 - -
USS Shelton	USS Shelton		DD-790	USN	Gearing	DD-790	-	1956 - -
USS Warrington	USS Warrington		DD-843	USN	Gearing	DD-843	-	1958 - -
USNS Observation Island	USNS Observation Island		EAG-154	USN	-	EAG-154	-	1958 - 2014
Unknown US Terrier missile ship	Unknown US Terrier missile ship		SHIP-US	USN	-	-	-	1965 - 1965
US Army Mobile Launch Platform	US Army Mobile Launch Platform		MLP	USA	-	-	-	2003 - -

IV.1.5.1 USS Midway

Credit: US Navy

Midway was built in 1942 and retired in 1992. A V-2 was launched from its deck in Sep 1947.

Rockets used: V-2

Updated: 2025 Jul 16 0237:13

Launches: CV-41

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1947 Sep 6 1553	V-2	Operation Sandy	-	CV-41	USS Midway	SANDY	-	-	-	61.5W 29.1N (+/- 1.0)	1.0

IV.1.5.2 USS Hazelwood

Credit: US Navy

Rockets used: Pogo Hi

Updated: 2025 Jul 16 0237:13

Launches: DD-531

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958?	Pogo Hi	POGO	-	DD-531	USS Hazelwood	CCOD	-	-	-	69.5W 40.5N (+/- 5.0)	10.0
1958?	Pogo Hi	POGO	-	DD-531	USS Hazelwood	CCOD	-	-	-	69.5W 40.5N (+/- 5.0)	10.0

IV.1.5.3 USS Kyes

Credit: US Navy

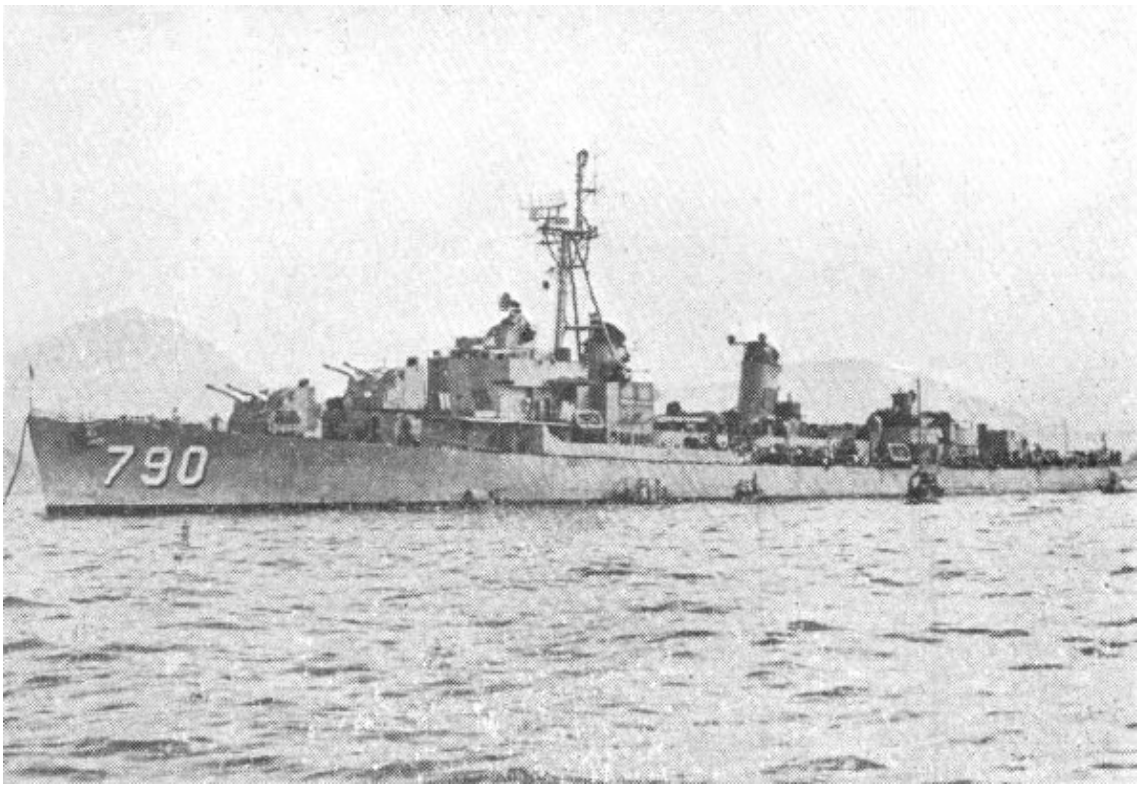
Rockets used: Loki Dart

Updated: 2025 Jul 16 0237:13

Launches: DD-787

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Apr	Loki Dart	-	-	DD-787	USS Kyes	BIK	-	-	-	165.3E 11.6N (+/- 0.0)	31.0
1956 May	Loki Dart	-	-	DD-787	USS Kyes	BIK	-	-	-	165.3E 11.6N (+/- 0.0)	31.0
1956 Jun	Loki Dart	-	-	DD-787	USS Kyes	BIK	-	-	-	165.3E 11.6N (+/- 0.0)	30.0
1956 Jul	Loki Dart	-	-	DD-787	USS Kyes	BIK	-	-	-	165.3E 11.6N (+/- 0.0)	30.0

IV.1.5.4 USS Shelton



Credit: US Navy

Rockets used: Loki Dart

Updated: 2025 Jul 16 0237:13

Launches: DD-790

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Apr	Loki Dart	-	-	DD-790	USS Shelton	BIK	-	-	-	165.3E 11.6N (+/- 0.0)	31.0
1956 May 28 0616	Loki Dart	-	ZUNI	DD-790	USS Shelton	ENW	LP1	-	-	162.2E 11.5N (+/- 0.0)	31.0
1956 Jun 11	Loki Dart	-	FLATHEAD	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0
1956 Jun 12	Loki Dart	-	FLATHEAD	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0
1956 Jun 19	Loki Dart	-	INCA	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0
1956 Jun 22	Loki Dart	-	INCA	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0
1956 Jul 15	Loki Dart	-	TEWA	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0
1956 Jul 21	Loki Dart	-	TEWA	DD-790	USS Shelton	ENW	WSD	-	-	162.2E 11.5N (+/- 0.0)	30.0

IV.1.5.5 USS Warrington

Credit: US Navy

Rockets used: Loki Dart

Updated: 2025 Jul 16 0237:13

Cruises: DD-843

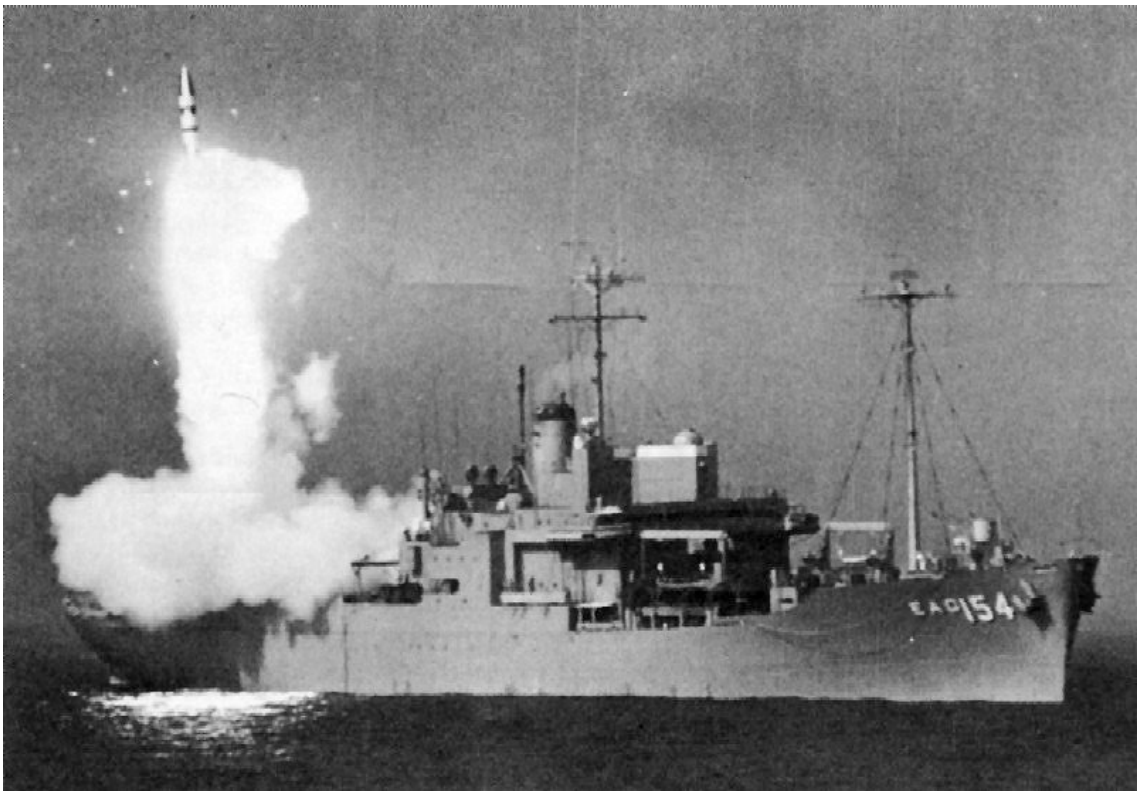
LC_Code	Active	Region	Cruise	CruiseMap
USN58A	1958 Aug 1 - 1958 Sep 15	Atlantic Ocean	USS Warrington, TF88 Argus cruise from Virginia to S Atlantic	-

Updated: 2025 Jul 16 0237:13

Launches: DD-843

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug 12	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0
1958 Aug 22	Loki Dart	Argus training	-	DD-843	USS Warrington	USN58A	ULP1	-	-	-	70.0

IV.1.5.6 USNS Observation Island



Credit: US Navy

The Empire State Mariner was built in 1953 for United States Lines and the US Maritime Commission. It was transferred to the USN in 1956 and redesignated EAG-154 (Experimental Miscellaneous Auxiliary) Observation Island. It was redesignated AG-154 in Apr 1968, placed in reserve 1972-79 and then used by Military Sealift Command as the missile range instrumentation ship USNS Observation Island, designated T-AGM-23. It was retired in 2014.

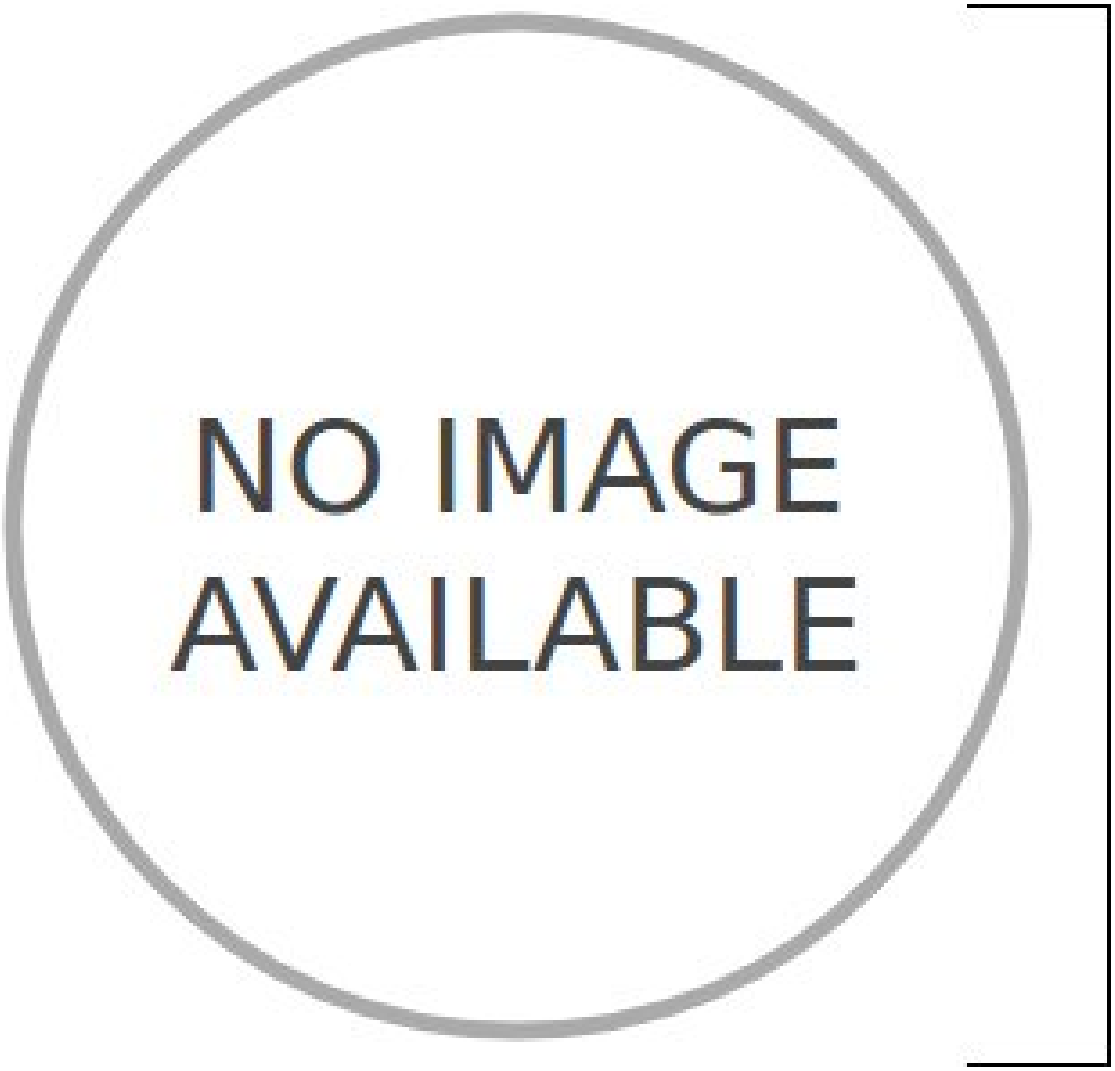
Rockets used: Polaris AX,Polaris A1,Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:13

Launches: EAG-154

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1959 Aug 27 1652	Polaris AX	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Mar 30 0103	Polaris A1	Integrated test	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	300.0
1960 Apr 18	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	50.0
1960 May 23 2139	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Jun 23 0222	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Jul 7	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1961 Mar 1 1819	Polaris A2	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1961 Mar 9	Polaris A2	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1961 May 25 1953	Polaris A2	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1961 Jun 26 1842	Polaris A2	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Aug 18	Polaris A2	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	2.0
1961 Oct 4 1522	Polaris A2	(A2X-15?)	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Sep 14 0809:06	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Sep 15 2037:10	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Oct 14	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Oct 14	Polaris A1	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1963 Apr 10 2033:07	Polaris A3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1.0
1963 Apr 26 1831:23	Polaris A3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	80.0
1963 Jun 17 1614:02	Polaris A3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 21 1544:03	Polaris A3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Sep 27 0325:00	Polaris A3	Steam eject, PX-2	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 4 0518:07	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Nov 27 0610:59	Polaris A3	PX-2,PY-2	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	40.0
1963 Dec 11 0100:06	Polaris A3	PX-2,PY-2	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1964 Jan 20 1702:01	Polaris A3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Apr 1	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1964 Apr 8	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	10.0
1964 May 12	Polaris A3	PY-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1964 Nov 20	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1964 Nov 25	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1965 Sep 22	Polaris A3	PX-2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1967	Polaris A1	ISEP 1	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967	Polaris A1	ISEP 2	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967	Polaris A1	ISEP 3	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967 May 17	Polaris A3	USN Mk 2 Mod 2 RV x 2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967 Jun 21	Polaris A3	Antelope 5	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967 Jun 21	Polaris A3	Antelope 6	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967 Nov 29	Polaris A3	USN Mk 2 Mod 2 RV x 2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1967 Dec 6	Polaris A3	Antelope 10	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968	Polaris A1	ISEP 6	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 Mar 16	Polaris A3	USN Mk 2 Mod 2 RV x 2	Mk 2 Mod 2 RVs+Decoys	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 Apr 4	Polaris A3	USN Mk 2 Mod 2 RV x 2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 Apr 11	Polaris A3	USN Mk 2 Mod 2 RV x 2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 Apr 19	Polaris A3	USN Mk 2 Mod 2 RV x 2	-	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 May?	Polaris A1	ISEP 4	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	500.0
1968 May?	Polaris A1	ISEP 5	Mk 2 RV	EAG-154	USNS Observation Island	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	100.0
1969 Dec 16 1725	Poseidon C3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Feb 4 2038	Poseidon C3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	100.0
1970 Mar 24 1917	Poseidon C3	-	-	EAG-154	USNS Observation Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Apr 15	Polaris A2	Safeguard M1-7	-	EAG-154	USNS Observation Island	MID	LP4	-	-	177.5W 24.8N (+/- 0.2)	1000.0
1971 May 7	Polaris A2	Safeguard M1-8	-	EAG-154	USNS Observation Island	MID	LP4	-	-	177.5W 24.8N (+/- 0.2)	1000.0
1971 Nov 10	Polaris A2	Safeguard M2-5	-	EAG-154	USNS Observation Island	MID	LP4	-	-	177.5W 24.8N (+/- 0.2)	1000.0
1971 Nov 12	Polaris A2	Safeguard M2-8	-	EAG-154	USNS Observation Island	MID	LP4	-	-	177.5W 24.8N (+/- 0.2)	1000.0
1971 Dec 8	Polaris A3	Safeguard M2-3	-	EAG-154	USNS Observation Island	MID	LP4	-	-	177.5W 24.8N (+/- 0.2)	1000.0

IV.1.5.7 Unknown US Terrier missile ship



The DAT-371 experiment of Project Defender used a Redstone missile as the target for a Terrier missile launched from an unknown US ship off San Nicolas Island in Dec 1965.

Rockets used: Terrier

Updated: 2025 Jul 16 0237:13

Launches: SHIP-US

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Dec 1 0128:20?	Terrier	DAT-371 Intercept	-	SHIP-US	Unknown US Terrier missile ship	SNI	-	-	-	119.5W 33.2N (+/- 0.0)	8.0

IV.1.5.8 US Army Mobile Launch Platform

Credit: US Navy

The Mobile Launch Platform (MLP) was converted from the LPH-10 USS Tripoli in 2002. It was leased from USN by US Army SMDC for the MDA.

Rockets used: Lance,Scud

Updated: 2025 Jul 16 0237:13

Launches: MLP

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2003 Q1	Lance	MLP Test (FY03)	-	MLP	US Army Mobile Launch Platform	PM	-	-	-	119.1W 34.1N (+/- 0.0)	40.0
2003 Q1	Lance	MLP Test (FY03)	-	MLP	US Army Mobile Launch Platform	PM	-	-	-	119.1W 34.1N (+/- 0.0)	40.0
2004 Jul 29 1722?	Scud	Arrow USFT-1 Target	CARAVAN-1 Target	MLP	US Army Mobile Launch Platform	WTR	LP1	-	-	119.0W 33.0N (+/- 3.0)	80.0
2007 Jan 27 0518?	Scud	FMA 7 Target	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	100.0
2007 Apr 6 0642	Scud	FMA 8 Target	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	100.0
2007 Oct 27 0715	Scud	FMA 9 Target	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	100.0
2008 Jun 5 1813	Scud	FMA 10 Target	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	150.0
2008 Sep 18 0205	Scud	FMA 11 Target	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	80.0
2009 Mar 18 0025?	Scud	FMA 12 Target?	(Sep Target)?	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	100.0
2010 Feb 12 0444	Scud	FMA 13	-	MLP	US Army Mobile Launch Platform	WTR	W1	-	-	119.0W 33.0N (+/- 3.0)	100.0
2010 Jun 29 0732	Scud	FMA 14	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	80.0
2011 Feb 23 0630	Scud	FMA 16	CARAVAN-2 Target	MLP	US Army Mobile Launch Platform	PM	-	-	-	119.1W 34.1N (+/- 0.0)	40.0
2011 Oct 5 0556	Scud	FMA 17	-	MLP	US Army Mobile Launch Platform	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	100.0
2012 Oct 25?	Scud	FMA 18	-	MLP	US Army Mobile Launch Platform	KMR	BOA-NE	-	-	167.7E 9.0N (+/- 0.0)	150.0

IV.1.6 US Aegis Missile Ships

Updated: 2025 Jul 16 0237:13

US Aegis Missile Ships

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Richmond K. Turner	USS Richmond K. Turner		CG-20	USN	Leahy	CG-20	-	1975 - 1995
USS Jouett	USS Jouett		CG-29	USN	Belknap	CG-29	-	1962 - 2007
USS Shiloh	USS Shiloh		CG-67	USN	Ticonderoga	CG-67	-	1987 - -
USS Lake Erie	USS Lake Erie		CG-70	USN	Ticonderoga	CG-70	-	1991 - -
USS Arleigh Burke	USS Arleigh Burke	-	DDG-51	USNROT	Arleigh Burke	DDG-51	-	1991 - -
USS John Paul Jones	USS John Paul Jones		DDG-53	USNPH	Arleigh Burke	DDG-53	-	1991 - -
USS Paul Hamilton	USS Paul Hamilton		DDG-60	USNSD	Arleigh Burke	DDG-60	-	1993 - -
USS Fitzgerald	USS Fitzgerald		DDG-62	USNSD	Arleigh Burke	DDG-62	-	1994 - -
USS Carney	USS Carney	-	DDG-64	USNMYP	Arleigh Burke	DDG-64	-	1994 - -
USS Benfold	USS Benfold		DDG-65	USNYOK	Arleigh Burke	DDG-65	-	1994 - -
USS The Sullivans	USS The Sullivans		DDG-68	USNMYP	Arleigh Burke	DDG-68	-	1995 - -
USS Hopper	USS Hopper		DDG-70	USNPH	Arleigh Burke	DDG-70	-	1996 - -

US Aegis Missile Ships

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Ross	USS Ross		DDG-71	USNVA	Arleigh Burke	DDG-71	-	1996 - -
USS Decatur	USS Decatur		DDG-73	USNSD	Arleigh Burke	DDG-73	-	1996 - -
USS McFaul	USS McFaul		DDG-74	USNVA	Arleigh Burke	DDG-74	-	1997 - -
USS Donald Cook	USS Donald Cook		DDG-75	USNROT	Arleigh Burke	DDG-75	-	1997 - -
USS O'Kane	USS O'Kane		DDG-77	USNPH	Arleigh Burke	DDG-77	-	1997 - -
USS Roosevelt	USS Roosevelt		DDG-80	USNMYP	Arleigh Burke	DDG-80	-	1999 - -
USS McCampbell	USS McCampbell	-	DDG-85	USNEV	Arleigh Burke	DDG-85	-	1999 - -
USS Preble	USS Preble	-	DDG-88	USNEV	Arleigh Burke	DDG-88	-	1999 - -
USS John Finn	USS John Finn		DDG-113	USNSD	Arleigh Burke	DDG-113	-	2015 - -
USS Ralph Johnson	USS Ralph Johnson	-	DDG-114	USNSD	Arleigh Burke	DDG-114	-	2015 - -
USS Paul Ignatius	USS Paul Ignatius	-	DDG-117	USNSD	Arleigh Burke	DDG-117	-	2017 - -
USS Daniel Inouye	USS Daniel Inouye	-	DDG-118	USNSD	Arleigh Burke	DDG-117	-	2023 - -
USS Carl Levin	USS Carl Levin	-	DDG-120	USNSD	Arleigh Burke	DDG-117	-	2023 - -
JS Kongo	JS Kongo		DDG-173	JMSDSA	Kongo	DDG-173	-	1991 - -
JS Kirishima	JS Kirishima		DDG-174	JMSDYO	Kongo	DDG-174	-	1993 - -

US Aegis Missile Ships

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
JS Myoko	JS Myoko		DDG-175	JMSDMA	Kongo	DDG-175	-	1994 - -
JS Chokai	JS Chokai		DDG-176	JMSDSA	Kongo	DDG-176	-	1996 - -
JS Atago	JS Atago		DDG-177	JMSDMA	Kongo	DDG-177	-	2005 - -
JS Ashigara	JS Ashigara	-	DDG-178	JMSDMA	Ashigara	DDG-178	-	2005 - -
JS Maya	JS Maya	-	DDG-179	JMSDMA	Ashigara	DDG-179	-	2019 - -
JS Haguro	JS Haguro	-	DDG-180	JMSDMA	Ashigara	DDG-180	-	2019 - -
Unknown Aegis ship	Unknown Aegis ship	-	DDG-UNK	USN	Arleigh Burke	DDG-UNK	-	- - -

IV.1.6.1 USS Richmond K. Turner

Credit: US Navy photo

The Richmond K. Turner was used in 1992-95 to launch the Terrier/LEAP tests, which were precursors to the SM-3 AEGIS.

Rockets used: Terrier LEAP

Updated: 2025 Jul 16 0237:13

Launches: CG-20

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1992 Sep 24	Terrier LEAP	FTV-1 (Dummy LEAP)	-	CG-20	USS Richmond K. Turner	PM	-	-	-	119.1W 34.1N (+/- 0.0)	30.0
1995 Mar 4 1020	Terrier LEAP	FTV-3	-	CG-20	USS Richmond K. Turner	AONC	-	-	-	73.7W 33.8N (+/- 0.0)	30.0
1995 Mar 28	Terrier LEAP	FTV-4	-	CG-20	USS Richmond K. Turner	AONC	-	-	-	73.7W 33.8N (+/- 0.0)	30.0

IV.1.6.2 USS Jouett

Credit: US Navy photo

The Jouett was used in 1992 to launch a Terrier/LEAP test. Designation DLG-29 from 1964 to 1975; then CG-29.

Rockets used: Terrier LEAP

Updated: 2025 Jul 16 0237:13

Launches: CG-29

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1993 Sep 27	Terrier LEAP	FTV-2 LEAP Mockup	-	CG-29	USS Jouett	PM	-	-	-	119.1W 34.1N (+/- 0.0)	30.0

IV.1.6.3 USS Shiloh

Credit: US Navy photo

The Shiloh was used to launch Aegis SM-3 missiles.

Rockets used: SM-3

Updated: 2025 Jul 16 0237:13

Launches: CG-67

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1999 Sep 24	SM-3	Stellar Phoenix	-	CG-67	USS Shiloh	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	107.0
2006 Jun 22 2204?	SM-3	Stellar Predator	-	CG-67	USS Shiloh	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.4 USS Lake Erie

Credit: US Navy photo

Rockets used: SM-3,SM-2-IV,SM-2MR,SM-3-IB

Updated: 2025 Jul 16 0237:13

Launches: CG-70

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2000 Jul 14	SM-3	Stellar Archer	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0
2001 Jan 26 0403	SM-3	Stellar Gemini	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0
2002 Jan 26 0208	SM-3	Stellar Eagle	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2002 Jun 14 0129	SM-3	Stellar Impact	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0
2002 Nov 22 0032	SM-3	Stellar Viper (LEAP)	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	152.0
2003 Jun 18 2317	SM-3	Stellar Hammer	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2003 Dec 11 1812	SM-3	Stellar Defender	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	137.0
2005 Feb 24 2104	SM-3	Stellar Dragon	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2005 Nov 17 1816	SM-3	Stellar Valkyrie	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2006 Mar 8 2045	SM-3	Stellar Tsuru	-	CG-70	USS Lake Erie	KAU	POA2	-	-	159.8W 22.1N (+/- 0.0)	150.0
2006 May 24 2036	SM-2-IV	Pacific Phoenix	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2007 Apr 26 2132	SM-3	Stellar Hunters	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2007 Apr 26 2132	SM-2MR	-	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2007 Aug 31	SM-3	-	[Details classified]	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2007 Nov 7 0414	SM-3	Stellar Gryphon	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2007 Nov 7 0414	SM-3	-	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2008 Feb 21 0326	SM-3	USA 193 intercept	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	250.0
2008 Jun 5 1817	SM-2-IV	Stellar Scorpion	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	19.0
2008 Jun 5 1817	SM-2-IV	Stellar Scorpion	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	19.0
2011 Sep 1 1354	SM-3-IB	-	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2012 May 10 0620?	SM-3-IB	Stellar Vengeance	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0
2012 Jun 27 0920?	SM-3-IB	Stellar Minotaur	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2013 Feb 13 0915?	SM-3	Stellar Eyes	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2013 May 16 0330?	SM-3-IB	Stellar Hecate	-	CG-70	USS Lake Erie	KAU	POA3	-	-	159.8W 22.1N (+/- 0.0)	150.0
2013 Sep 19 0032?	SM-3-IB	Stellar Ninja	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	300.0
2013 Sep 19 0032?	SM-3-IB	Stellar Ninja	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	300.0
2013 Oct 4 0537?	SM-3-IB	Stellar Raven	-	CG-70	USS Lake Erie	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	200.0

IV.1.6.5 USS Arleigh Burke

Rockets used: SM-3

Updated: 2025 Jul 16 0237:13

Launches: DDG-51

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Apr 13 2330?	SM-3	-	-	DDG-51	USS Arleigh Burke	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0
2024 Apr 13 2330?	SM-3	-	-	DDG-51	USS Arleigh Burke	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0
2024 Apr 13 2330?	SM-3	-	-	DDG-51	USS Arleigh Burke	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0

IV.1.6.6 USS John Paul Jones

Credit: US Navy photo

Rockets used: SM-6,SM-3-IB,SM-2MR,SM-2-IV,SM-3-IIA

Updated: 2025 Jul 16 0237:13

Launches: DDG-53

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2014 Jun 18	SM-6	-	-	DDG-53	USS John Paul Jones	SNI	-	-	-	119.5W 33.2N (+/- 0.0)	20.0
2014 Jun 19?	SM-6	-	-	DDG-53	USS John Paul Jones	SNI	-	-	-	119.5W 33.2N (+/- 0.0)	20.0
2014 Jun 20?	SM-6	-	-	DDG-53	USS John Paul Jones	SNI	-	-	-	119.5W 33.2N (+/- 0.0)	20.0
2014 Jun 20?	SM-6	-	-	DDG-53	USS John Paul Jones	SNI	-	-	-	119.5W 33.2N (+/- 0.0)	20.0
2014 Nov 6 2206?	SM-3-IB	Stellar Wyvern	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2014 Nov 6 2206?	SM-2MR	2-3A	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2014 Nov 6 2206?	SM-2MR	2-3A	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2015 Jul 29 0832?	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2015 Jul 30 0617?	SM-2-IV	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2015 Aug 1 0032?	SM-2-IV	Cruise missile intercept	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2015 Aug 2 0147?	SM-6	Cruise missile intercept	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	10.0
2015 Nov 1 0312?	SM-3-IB	eMRBM intercept	-	DDG-53	USS John Paul Jones	WAKE	-	-	-	166.6E 19.3N (+/- 0.0)	10.0
2016 Jan	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Jan	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Jan	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Jan	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Jan	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Dec 15	SM-6	Stellar Crossbow	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2016 Dec 15	SM-6	Stellar Crossbow	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2017 Feb 4 0833?	SM-3-IIA	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2017 Jun 22 0523?	SM-3-IIA	-	-	DDG-53	USS John Paul Jones	KAU	-	-	-	159.8W 22.1N (+/- 0.0)	200.0
2017 Aug 29	SM-6	-	-	DDG-53	USS John Paul Jones	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.6.7 USS Paul Hamilton

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:13

Launches: DDG-60

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2008 Nov 1	SM-3	PacBlitz08	-	DDG-60	USS Paul Hamilton	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.8 USS Fitzgerald

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:13

Launches: DDG-62

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2012 Oct 25?	SM-3	-	-	DDG-62	USS Fitzgerald	KMR	BOA	-	-	167.7E 9.0N (+/- 0.0)	150.0
2022 Aug 9	SM-3	Pacific Dragon 22	-	DDG-62	USS Fitzgerald	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.6.9 USS Carney

Rockets used: SM-3

Updated: 2025 Jul 16 0237:13

Launches: DDG-64

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Apr 13 2330?	SM-3	-	-	DDG-64	USS Carney	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0
2024 Apr 13 2330?	SM-3	-	-	DDG-64	USS Carney	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0
2024 Apr 13 2330?	SM-3	-	-	DDG-64	USS Carney	EMED	-	-	-	34.0E 32.0N (+/- 1.0)	100.0

IV.1.6.10 USS Benfold

Credit: US Navy photo

Rockets used: SM-2-IV

Updated: 2025 Jul 16 0237:13

Launches: DDG-65

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2009 Mar 26 1920?	SM-2-IV	Stellar Daggers	-	DDG-65	USS Benfold	WTR	W1	-	-	119.0W 33.0N (+/- 3.0)	10.0

IV.1.6.11 USS The Sullivans

Credit: US Navy photo

Rockets used: SM-2-IV

Updated: 2025 Jul 16 0237:13

Launches: DDG-68

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2015 Oct 20	SM-2-IV	Aegis	-	DDG-68	USS The Sullivans	SUIST	D701	-	-	7.3W 57.3N (+/- 0.0)	10.0

IV.1.6.12 USS Hopper

Credit: US Navy photo

Rockets used: SM-3,SM-3-IB

Updated: 2025 Jul 16 0237:13

Launches: DDG-70

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2008 Nov 1	SM-3	PacBlitz08	-	DDG-70	USS Hopper	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2009 Jul 31 0342	SM-3	Stellar Avenger	-	DDG-70	USS Hopper	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2016 May 25	SM-3-IB	-	-	DDG-70	USS Hopper	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0
2016 May 26	SM-3-IB	-	-	DDG-70	USS Hopper	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	100.0

IV.1.6.13 USS Ross

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-71

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2015 Oct 20	SM-3	-	-	DDG-71	USS Ross	SUIST	D701	-	-	7.3W 57.3N (+/- 0.0)	100.0

IV.1.6.14 USS Decatur

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-73

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2007 Jun 23 0244	SM-3	Stellar Athena	-	DDG-73	USS Decatur	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0
2013 Sep 10	SM-3	-	-	DDG-73	USS Decatur	KMR	BOA	-	-	167.7E 9.0N (+/- 0.0)	150.0

IV.1.6.15 USS McFaul

Credit: US Navy photo

Rockets used: SM-6

Updated: 2025 Jul 16 0237:14

Launches: DDG-74

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2017 Oct 15	SM-6	-	-	DDG-74	USS McFaul	SUIST	D701	-	-	7.3W 57.3N (+/- 0.0)	20.0

IV.1.6.16 USS Donald Cook

Credit: US Navy photo

Rockets used: SM-3-IB

Updated: 2025 Jul 16 0237:14

Launches: DDG-75

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2017 Oct 15	SM-3-IB	Formidable Shield	-	DDG-75	USS Donald Cook	SUIST	D701	-	-	7.3W 57.3N (+/- 0.0)	100.0

IV.1.6.17 USS O’Kane

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-77

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2011 Apr 15 0703	SM-3	Stellar Charon	-	DDG-77	USS O'Kane	KAU	POA4	-	-	159.8W 22.1N (+/- 0.0)	160.0

IV.1.6.18 USS Roosevelt

Credit: US Navy photo

Rockets used: SM-3-IB

Updated: 2025 Jul 16 0237:14

Launches: DDG-80

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2019 May 10	SM-3-IB	Formidable Shield 19E4	-	DDG-80	USS Roosevelt	SUIST	D701	-	-	7.3W 57.3N (+/- 0.0)	150.0

IV.1.6.19 USS McCampbell

Rockets used: SM-3-IIA

Updated: 2025 Jul 16 0237:14

Launches: DDG-85

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Feb 8	SM-3-IIA	Stellar Sisyphus	-	DDG-85	USS McCampbell	KAU	LP7	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.20 USS Preble

Rockets used: SM-6

Updated: 2025 Jul 16 0237:14

Launches: DDG-88

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Mar 28	SM-6	Stellar Laelaps	-	DDG-88	USS Preble	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2024 Mar 28	SM-6	Stellar Laelaps	-	DDG-88	USS Preble	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.6.21 USS John Finn

Credit: US Navy photo

Rockets used: SM-3-IIA

Updated: 2025 Jul 16 0237:14

Launches: DDG-113

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2018 Oct 26	SM-3-IIA	Stellar Alaris	-	DDG-113	USS John Finn	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2020 Nov 17 0605?	SM-3-IIA	Stellar Lancer	-	DDG-113	USS John Finn	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	200.0

IV.1.6.22 USS Ralph Johnson

Rockets used: SM-6

Updated: 2025 Jul 16 0237:14

Launches: DDG-114

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2021 Jul 24	SM-6	-	-	DDG-114	USS Ralph Johnson	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2021 Jul 24	SM-6	-	-	DDG-114	USS Ralph Johnson	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2021 Jul 24	SM-6	-	-	DDG-114	USS Ralph Johnson	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2021 Jul 24	SM-6	-	-	DDG-114	USS Ralph Johnson	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.6.23 USS Paul Ignatius

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-117

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2021 May 26	SM-3	ASD/FS-21	Formidable Shield	DDG-117	USS Paul Ignatius	SUIST	D701D	-	-	7.3W 57.3N (+/- 0.0)	300.0
2021 May 30	SM-3	ASD/FS-21	Formidable Shield	DDG-117	USS Paul Ignatius	SUIST	D701D	-	-	7.3W 57.3N (+/- 0.0)	300.0

IV.1.6.24 USS Daniel Inouye

Rockets used: SM-6

Updated: 2025 Jul 16 0237:14

Launches: DDG-118

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2023 Mar 30	SM-6	Stellar Hydra	-	DDG-118	USS Daniel Inouye	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2023 Mar 30	SM-6	Stellar Hydra	-	DDG-118	USS Daniel Inouye	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.6.25 USS Carl Levin

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-120

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2023 Oct 25	SM-3	Vigilant Wyvern	-	DDG-120	USS Carl Levin	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0
2023 Oct 25	SM-3	Vigilant Wyvern	-	DDG-120	USS Carl Levin	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.26 JS Kongo

Credit: US Navy photo

The Kongo, first of the Japanese AEGIS ships, was used to launch Aegis SM-3 missiles.

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-173

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2007 Dec 17 2208	SM-3	Stellar Kiji	-	DDG-173	JS Kongo	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	160.0

IV.1.6.27 JS Kirishima

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-174

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2010 Oct 29 0309	SM-3	Stellar Taka	-	DDG-174	JS Kirishima	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.28 JS Myoko

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-175

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2009 Oct 28 0404	SM-3	Stellar Raicho	-	DDG-175	JS Myoko	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.29 JS Chokai

Credit: US Navy photo

Rockets used: SM-3

Updated: 2025 Jul 16 0237:14

Launches: DDG-176

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2008 Nov 20 0224	SM-3	Stellar Hayabusa	-	DDG-176	JS Chokai	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.30 JS Atago

Credit: US Navy photo

Rockets used: SM-3-IB

Updated: 2025 Jul 16 0237:14

Launches: DDG-177

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2018 Sep 12 0840?	SM-3-IB	Stellar Fukurou	-	DDG-177	JS Atago	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.31 JS Ashigara

IV.1.6.32 JS Maya

Rockets used: SM-3-IIA

Updated: 2025 Jul 16 0237:14

Launches: DDG-179

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2022 Nov 16	SM-3-IIA	-	-	DDG-179	JS Maya	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	200.0

IV.1.6.33 JS Haguro

Rockets used: SM-3-IB

Updated: 2025 Jul 16 0237:14

Launches: DDG-180

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2022 Nov 19	SM-3-IB	-	-	DDG-180	JS Haguro	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	150.0

IV.1.6.34 Unknown Aegis ship

Rockets used: SM-6

Updated: 2025 Jul 16 0237:14

Launches: DDG-UNK

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2021 May 29	SM-6	-	-	DDG-UNK	Unknown Aegis ship	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0
2021 May 29	SM-6	-	-	DDG-UNK	Unknown Aegis ship	KAU	POA	-	-	159.8W 22.1N (+/- 0.0)	20.0

IV.1.7 Indian Navy Missile Ships

Updated: 2025 Jul 16 0237:14

Indian Navy Missile Ships

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
INS Subhadra	INS Subhadra		INS-P51	INAV	Sukanya	INS-P51	-	2001 - -
INS Suvarna	INS Suvarna		INS-P52	INAV	Sukanya	INS-P52	-	- - -
INS Rajput	INS Rajput		INS-D51	INAV	Rajput	INS-D51	-	2005? - -

IV.1.7.1 INS Subhadra

Credit: Indian Navy

The Subhadra is the launch platform for Indian Navy test launches.

Some launches indicated as ”INS-P51?” may be from INS-P52 instead.

Rockets used: Dhanush,PDV Target

Updated: 2025 Jul 16 0237:14

Launches: INS-P51

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2001 Sep 21	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2004 Nov 7 0650	Dhanush	Ship test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2007 Mar 30 0905	Dhanush	Ship test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2009 Mar 6 1054	Dhanush	PAD Target	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	120.0
2009 Dec 13 0601?	Dhanush	-	F6	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2010 Mar 27 0014	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	100.0
2012 Oct 5 0555	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	100.0
2014 Apr 27 0337	PDV Target	Target	2S-SL TGT-01	INS-P51	INS Subhadra	CHAN	IC3	-	-	86.6E 21.3N (+/- 0.1)	120.0
2014 Nov 14 1410	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2015 Apr 9 0532	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2017 Feb 12 0213?	PDV Target	Prithvi Target	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	97.0
2018 Feb 23 0522	Dhanush	Test	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0
2018 Sep 23 1433?	PDV Target	Prithvi Target	-	INS-P51	INS Subhadra	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	90.0

IV.1.7.2 INS Suvarna

Credit: Indian Navy

The Suvarna is a launch platform for Indian Navy test launches.

Rockets used: Dhanush

Updated: 2025 Jul 16 0237:14

Launches: INS-P52

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2011 Mar 11 0433	Dhanush	-	-	INS-P52	INS Suvarna	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0

IV.1.7.3 INS Rajput

Credit: Indian Navy

The Rajput was used as a Dhanush test platform.

Rockets used: Dhanush

Updated: 2025 Jul 16 0237:14

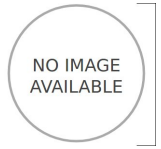
Launches: INS-D51

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2005 Dec 28 0828	Dhanush	INS Rajput	-	INS-D51	INS Rajput	CHAN	SEA	-	-	86.6E 21.3N (+/- 0.1)	50.0

IV.1.8 Other Rocket Launching Ships

Updated: 2025 Jul 16 0237:14

Other Rocket Launching Ships

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
CCOCOOOO 37101 CZ-11 launch barge (TAI RUI?)	Tai Rui CCOCOOOO 37101 CZ-11 launch barge		CCOC	CALTQ	CCOC	-	MMS412137101	2019 - -
Debo-3	Debo-3 launch barge		DEBO3	CALTQ	Debo-3	-	-	2020 - -
DEFU 15002 launch barge	DEFU 15002 launch barge	-	DEFU2	CALTQ	Debo-3	-	-	2020 - -
Bo Run Jiu Zhou	Bo Run Jiu Zhou		BRJZ	CALTQ	-	-	MMS413536970	2023 - -
东方航天港号	Dongfeng Hangtiangang	-	DFHT	CALTQ	-	-	-	2023 - -
Unknown Israeli ship	Unknown Israeli ship		SHIP-ISR	IDFN	-	-	-	- - -
Sirius barge, Anhueng	Sirius barge, Anhueng		SIR	ADDAH	-	-	IMO8772295	2012 - -
Sea Launch Odyssey	Sea Launch Odyssey		ODYSSEY	BOSL	-	-	IMO8753196	1999 - 2020
Once In A Lifetime	Once In A Lifetime	-	OIALT	SPORT	-	-	MMS368379350	2024 - -

IV.1.8.1 Tai Rui CCOCOOOO 37101 CZ-11 launch barge

CCOCOOOO 37101 CZ-11 launch barge (TAI RUI?)

Credit: CALT? via weibo.com

Credit: -

The CCOC (CCOCOOOO 37101) is the launch barge for the CZ-11SL orbital launch vehicle.

Rockets used: Chang Zheng 11,Jielong-3

Updated: 2025 Jul 16 0237:14

Launches: CCOC

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2019 Jun 5 0406	Chang Zheng 11	Jilin/JSW	Jilin/JSW	CCOC	Tai Rui CCOCOOOO 37101 CZ-11 launch barge	HHAI	LP1	-	-	121.2E 34.9N (+/- 0.0)	633.0
2022 Apr 30 0330	Chang Zheng 11	Jilin-1 03D-04-07/04A	Jilin-1 GF03D	CCOC	Tai Rui CCOCOOOO 37101 CZ-11 launch barge	HHAI	LP3	-	-	121.2E 34.9N (+/- 0.0)	592.0
2022 Dec 9 0635	Jielong-3	Jilin-1	-	CCOC	Tai Rui CCOCOOOO 37101 CZ-11 launch barge	HHAI	LP5	-	-	121.2E 34.9N (+/- 0.0)	-1.0

IV.1.8.2 Debo-3 launch barge

Debo-3

Credit: [credit unknown]

Credit: www.news.cn

The Debo-3 barge was introduced for the second CZ-11 sea launch. Its home port is the Shandong Eastern

Spaceport at Haiyang.

Rockets used: Chang Zheng 11

Updated: 2025 Jul 16 0237:14

Launches: DEBO3

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2020 Sep 15 0123	Chang Zheng 11	Jilin-1 03B/03C	Jilin-1	DEBO3	Debo-3 launch barge	HHAI	LP2	-	-	121.2E 34.9N (+/- 0.0)	611.0

IV.1.8.3 DEFU 15002 launch barge

Rockets used: Chang Zheng 11,Gushenxing 1

Updated: 2025 Jul 16 0237:14

Launches: DEFU2

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2022 Oct 7 1310:29	Chang Zheng 11	Centispace S5/S6	-	DEFU2	DEFU 15002 launch barge	HHAI	LP4	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2023 Sep 5 0934:46	Gushenxing 1	The Little Mermaid	Tianqi-21/24	DEFU2	DEFU 15002 launch barge	HHAI	LP4	-	-	121.2E 34.9N (+/- 0.0)	-1.0

IV.1.8.4 Bo Run Jiu Zhou

Credit: via cnspaceflight on twitter

The Bo Run Jiu Zhou was used for the second JL-3 launch.

Rockets used: Jielong-3,Chang Zheng 11

Updated: 2025 Jul 16 0237:14

Launches: BRJZ

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2023 Dec 5 1924	Jielong-3	CX-20	WHJSW 03	BRJZ	Bo Run Jiu Zhou	YJ	LP1	-	-	112.0E 21.3N (+/- 0.0)	-1.0
2023 Dec 25 2239	Chang Zheng 11	Shiyan-24C 1-3	-	BRJZ	Bo Run Jiu Zhou	YJ	LP1	-	-	112.0E 21.3N (+/- 0.0)	-1.0
2024 Feb 3 0306	Jielong-3	NEXSAT-1/DFHG-1	-	BRJZ	Bo Run Jiu Zhou	YJ	LP2	-	-	112.0E 21.3N (+/- 0.0)	-1.0

IV.1.8.5 Dongfeng Hangtiangang

东方航天港号

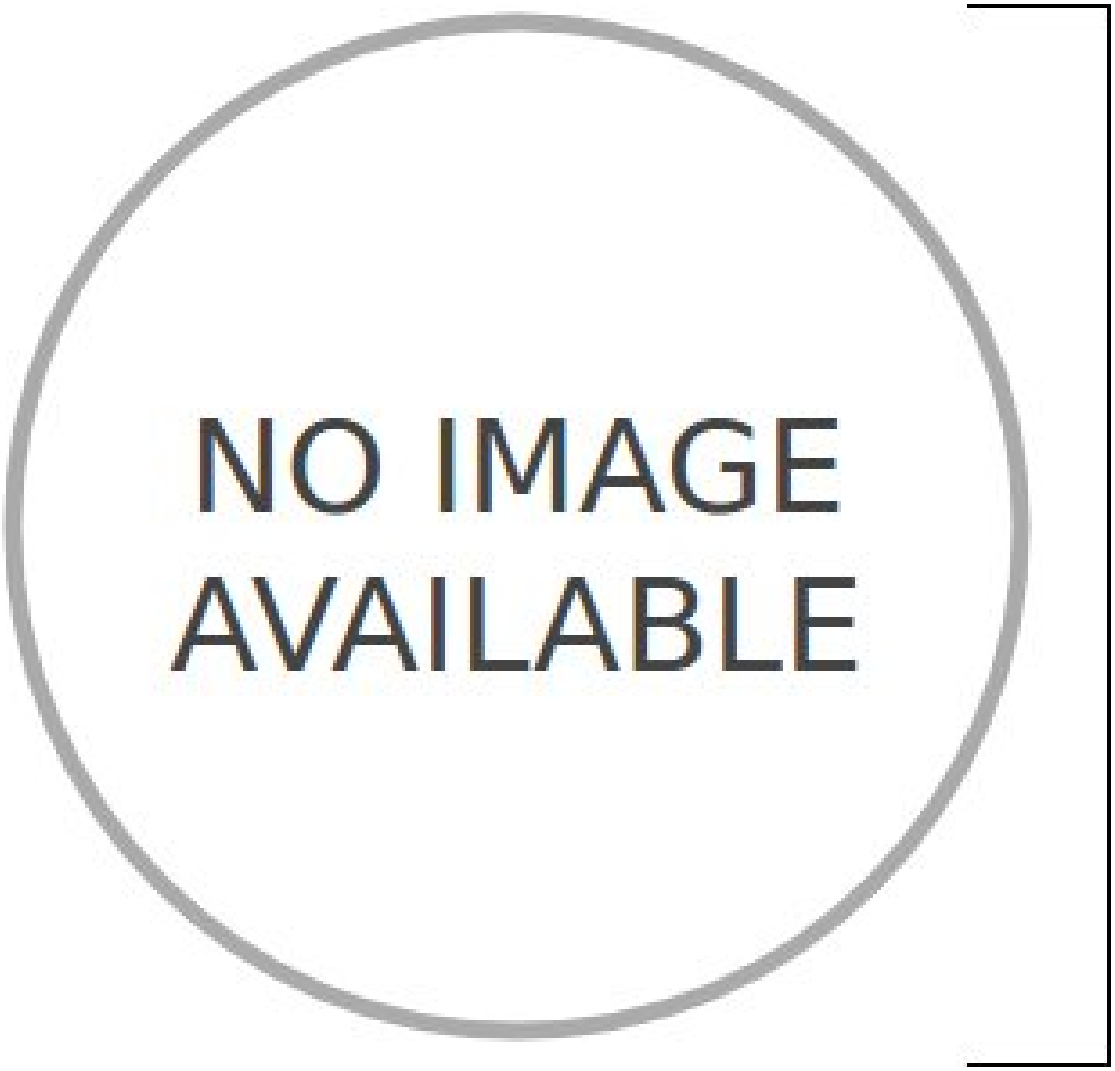
Rockets used: Yinli-1,Gushenxing 1,Jielong-3

Updated: 2025 Jul 16 0237:14

Launches: DFHT

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Jan 11 0530	Yinli-1	Yunyao-1 18-20	-	DFHT	Dongfeng Hangtiangang	YJ	LP1	-	-	112.0E 21.3N (+/- 0.0)	-1.0
2024 May 29 0812:27	Gushenxing 1	Beautiful World	Tianqi-25/28	DFHT	Dongfeng Hangtiangang	HHAI	LP6	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2024 Aug 29 0522	Gushenxing 1	How Far I'll Go	Yunyao-1 15-17	DFHT	Dongfeng Hangtiangang	HHAI	LP6	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2024 Sep 24 0231:41	Jielong-3	Jilin Daxue/XSD-15/	-	DFHT	Dongfeng Hangtiangang	HHAI	LP4	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2024 Dec 19 1018	Gushenxing 1	Mega Space Molly	Tianqi-33/36	DFHT	Dongfeng Hangtiangang	HHAI	LP6	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2025 Jan 13 0300	Jielong-3	Weili Kongjian 01 zu	-	DFHT	Dongfeng Hangtiangang	HHAI	LP4	-	-	121.2E 34.9N (+/- 0.0)	-1.0
2025 May 19 0738	Gushenxing 1	-	Tianqi 16-18,20	DFHT	Dongfeng Hangtiangang	HHAI	LP6	-	-	121.2E 34.9N (+/- 0.0)	-1.0

IV.1.8.6 Unknown Israeli ship



From 1990 to 1999 Arrow 1 interceptors were test-launched from a ship (or ships) in the Mediterranean against targets launched from Palmachim. The Sa'ar 4.5 class boat INS Hetz, or similar, seems to me to be a plausible candidate.

Rockets used: Arrow 1

Updated: 2025 Jul 16 0237:14

Launches: SHIP-ISR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1990 Aug 9	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	0.0
1991 Mar 25	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1991 Oct 30	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1992 Sep 23	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1993 Feb 28	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1993 Feb 28	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1993 Jul 14	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1993 Oct 14	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1993 Oct 14	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1994 Mar	Arrow 1	-	[Not launched?]	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	0.0
1994 Jun 12	Arrow 1	ATD-1	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	20.0
1996 Aug 20	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	80.0
1997 Aug 19 0820?	Arrow 1	-	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	80.0
1999 Nov 1 0942	Arrow 1	Target	-	SHIP-ISR	Unknown Israeli ship	PALB	IAFTR	-	-	34.7E 31.9N (+/- 0.0)	80.0

IV.1.8.7 Sirius barge, Anhueng

Credit: (via Dave Schmerler on twitter; original source unknown)

SIRIUS is the launch barge for Hyunmoo missile test flights off Anhueng.

Rockets used: Hyunmoo-2C,ADD TV1,ADD TV2

Updated: 2025 Jul 16 0237:14

Launches: SIR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2017 Mar	Hyunmoo-2C	-	-	SIR	Sirius barge, Anhueng	ANHU	-	-	-	126.1E 36.4N (+/- 0.0)	150.0
2017 Jun 23 0130?	Hyunmoo-2C	-	-	SIR	Sirius barge, Anhueng	ANHU	-	-	-	126.1E 36.4N (+/- 0.0)	150.0
2022 Mar 30	ADD TV1	Space Test	-	SIR	Sirius barge, Anhueng	ANHU	-	-	-	126.1E 36.4N (+/- 0.0)	200.0
2022 Dec 30 0900?	ADD TV1	Space Test	-	SIR	Sirius barge, Anhueng	ANHU	-	-	-	126.1E 36.4N (+/- 0.0)	200.0
2023 Dec 4 0500	ADD TV2	S-STEP	-	SIR	Sirius barge, Anhueng	JEJU	-	-	-	126.4E 33.2N (+/- 0.1)	-1.0

IV.1.8.8 Sea Launch Odyssey

Credit: Sea Launch

The Odyssey was the launch platform for the orbital Zenit-3SL rocket. In 2020, following its sale to the S7 group, it was moved from Long Beach to Vladivostok.

Rockets used: Zenit-3SL

Updated: 2025 Jul 16 0237:14

Launches: ODYSSEY

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1999 Mar 28 0129:59	Zenit-3SL	SL1 DemoSat	DemoSat	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36119.0
1999 Oct 10 0328:00	Zenit-3SL	SL2 DirecTV 1-R	DirecTV-1R	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	42115.0
2000 Mar 12 1449:15	Zenit-3SL	SL3 ICO F-1	ICO F1	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	200.0
2000 Jul 28 2242:00	Zenit-3SL	SL4 PAS 9	PAS 9	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36326.0
2000 Oct 21 0552	Zenit-3SL	SL5 Thuraya	Thuraya 1	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	40166.0
2001 Mar 18 2233:30	Zenit-3SL	SL7 XM Radio-2	XM Radio-2	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	38876.0
2001 May 8 2210:29	Zenit-3SL	SL6 XM Radio-1	XM Radio-1	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	38716.0
2002 Jun 15 2239:30	Zenit-3SL	SL8 Galaxy 3C	Galaxy III-C	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	41494.0
2003 Jun 10 1355:59	Zenit-3SL	SL9 Thuraya 2	Thuraya 2	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36034.0
2003 Aug 8 0330:55	Zenit-3SL	SL10 Echostar IX	Echostar IX	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36090.0
2003 Oct 1 0402:59	Zenit-3SL	SL11 Galaxy 13/Hor.1	Galaxy XIII/Horizons 1	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35893.0
2004 Jan 11 0412:59	Zenit-3SL	SL12 Telstar 14	Telstar 14	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36761.0
2004 May 4 1242:00	Zenit-3SL	SL13 DirecTV 7S	DirecTV 7S	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36216.0
2004 Jun 29 0358:59	Zenit-3SL	SL20 Telstar 18	Apstar 5	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36181.0
2005 Mar 1 0350:59	Zenit-3SL	SL18 XM Radio-3	XM Radio-3	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35927.0
2005 Apr 26 0731:29	Zenit-3SL	SL15 Spaceway 1	Spaceway 1	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	45519.0
2005 Jun 23 1403:00	Zenit-3SL	SL14 IA-8	Intelsat Americas 8	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36026.0
2005 Nov 8 1406:59	Zenit-3SL	SL23 Inmarsat 4F2	INMARSAT 4 F2	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36006.0
2006 Feb 15 2334:55	Zenit-3SL	SL24 Echostar 10	Echostar 10	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35851.0
2006 Apr 12 2329:59	Zenit-3SL	SL31 JCSAT-9	JCSAT-9	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35830.0
2006 Jun 18 0750	Zenit-3SL	SL29 Galaxy 16	Galaxy 16	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35940.0
2006 Aug 22 0327:01	Zenit-3SL	SL25 Koreasat-5	Koreasat 5	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36175.0
2006 Oct 30 2348:59	Zenit-3SL	SL22 XM Radio-4	XM Radio-4	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	36096.0
2007 Jan 30 2322	Zenit-3SL	SL16 NSS 8	NSS 8	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	0.0
2008 Jan 15 1148:59	Zenit-3SL	SL36 Thuraya 3	Thuraya 3	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35999.0
2008 Mar 19 2247:59	Zenit-3SL	SL32 DirecTV 11	DirecTV-11	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	41363.0
2008 May 21 0943:59	Zenit-3SL	SL30 Galaxy 18	Galaxy 18	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35853.0
2008 Jul 16 0520:59	Zenit-3SL	SL34 Echostar 11	Echostar 11	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35821.0
2008 Sep 24 0927:59	Zenit-3SL	SL35 Galaxy 19	Galaxy 19	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35829.0
2009 Apr 20 0815:59	Zenit-3SL	SL42 SICRAL 1B	SICRAL 1B	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35891.0
2011 Sep 24 2017:59	Zenit-3SL	SL39 Atlantic Bird 7	Atlantic Bird 7	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35883.0
2012 Jun 1 0522:59	Zenit-3SL	SL45 Intelsat IS-19	Intelsat IS-19	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35870.0
2012 Aug 19 0654:59	Zenit-3SL	SL49 Intelsat IS-21	Intelsat IS-21	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35936.0
2012 Dec 3 2043:59	Zenit-3SL	SL50 Eutelsat 70B	EUTELSAT 70B	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35814.0
2013 Feb 1 0656:00	Zenit-3SL	SL48 Intelsat IS-27	Intelsat IS-27	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	1.0
2014 May 26 2109:59	Zenit-3SL	Eutelsat 3B	EUTELSAT 3B	ODYSSEY	Sea Launch Odyssey	KLA	-	-	-	154.0W 0.0N (+/- 0.1)	35812.0

IV.1.8.9 Once In A Lifetime

Rockets used: Evo Space

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Updated: 2025 Jul 16 0237:14
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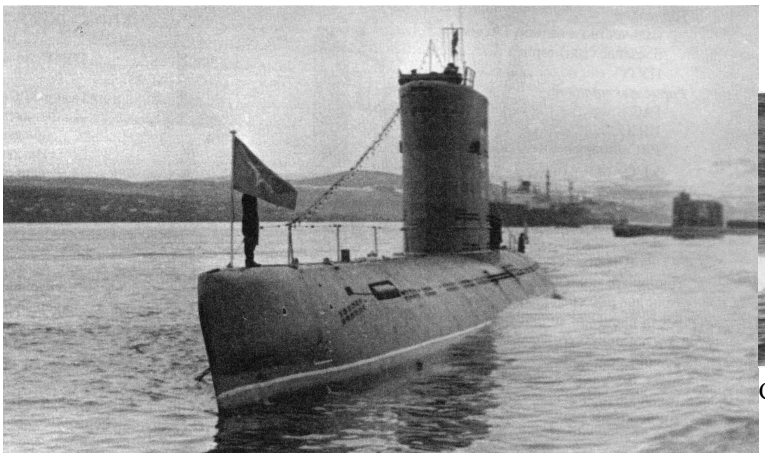
Launches: OIALT

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Aug 31	Evo Space	Spaceport Co. Test	-	OIALT	Once In A Lifetime	PBLA	-	-	-	89.0W 30.0N (+/- 0.0)	17.0

IV.1.9 Soviet Missile Submarines - Project 611



Credit: From Polmar and Moore, Cold War Submarines

Credit: Apa'lkov et al 2006

The Project 611 submarines and the later AV611 verson were the USSR's first ballistic missile submarines. They carried the R-11FM missile. NATO codename: Zulu.

Updated: 2025 Jul 16 0237:14

Soviet Missile Submarines - Project 611

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
Б-62	B-62 submarine	-	B-62	VMF	Proekt B-611A	B-62	-	- - -
Б-67	B-67 submarine	-	B-67	VMF	Proekt B-611AV	B-67	-	- - -
Б-73	B-73 submarine	-	B-73	VMF	Proekt B-611AV	B-73	-	- - -
Б-78	B-78 Murmanski Komsomolets submarine	-	B-78	VMF	Proekt B-611AV	B-78	-	- - -
Б-79	B-79 submarine	-	B-79	VMF	Proekt B-611AV	B-79	-	- - -
Б-89	B-89 submarine	-	B-89	VMF	Proekt B-611AV	B-89	-	- - -
AB-611	Unknown Zulu V class submarine	-	ZULUV	VMF	Proekt B-611AV	-	-	- - -

IV.1.9.1 B-62 submarine

Б-62

B-62 was the first Soviet ballistic missile submarine, under Project 611A. It carried a single R-11FM missile as the D-1 launch system. NATO reporting name was ZULU IV.

Rockets used: R-11FM

Updated: 2025 Jul 16 0237:14

Launches: B-62

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Sep 6	R-11FM	-	-	B-62	B-62 submarine	POLA58	-	-	-	150.0E 40.0N (+/- 9.0)	86.0

IV.1.9.2 B-67 submarine

Б-67

Rockets used: R-11FM

Updated: 2025 Jul 16 0237:14

Launches: B-67

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1955 Sep 12 1432	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1956 Oct 31	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1956 Oct 31	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1956 Dec 26	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1958 Mar 31	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	86.0
1958 May 25	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	86.0
1958 May 26	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	86.0
1959	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	0.0
1960 Sep 10	R-11FM	-	-	B-67	B-67 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	86.0

IV.1.9.3 B-73 submarine

Б-73

IV.1.9.4 B-78 Murmanski Komsomolets submarine

Б-78

IV.1.9.5 B-79 submarine

Б-79

IV.1.9.6 B-89 submarine

Б-89

IV.1.9.7 Unknown Zulu V class submarine

АВ-611

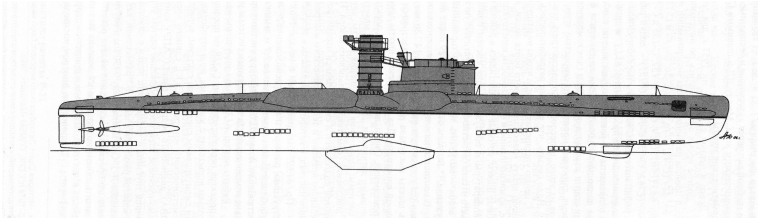
Rockets used: R-13

Updated: 2025 Jul 16 0237:14

Launches: ZULUV

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1959 Nov	R-13	-	-	ZULUV	Unknown Zulu V class submarine	UNKPL	-	-	-	-	150.0
1960 Aug	R-13	-	-	ZULUV	Unknown Zulu V class submarine	UNKPL	-	-	-	-	150.0
1961 Sep 14 0445?	R-13	-	-	ZULUV	Unknown Zulu V class submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1961 Sep 16 0400?	R-13	-	-	ZULUV	Unknown Zulu V class submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1961 Oct 19	R-13	-	-	ZULUV	Unknown Zulu V class submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0
1961 Oct 20	R-13	-	-	ZULUV	Unknown Zulu V class submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	150.0

IV.1.10 Soviet Missile Submarines - Project 613D4



Credit: Apa'lkov et al 2006

The single Project 613 submarine was S-229. It tested launch ejection of the R-21 and R-27 missiles at the Black Sea test site.

Updated: 2025 Jul 16 0237:14

Soviet Missile Submarines - Project 613D4

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
C-229	S-229 Submarine	-	S-229	VMF	Proekt 613D4	S-229	-	1961 - 1968

IV.1.10.1 S-229 Submarine

C-229

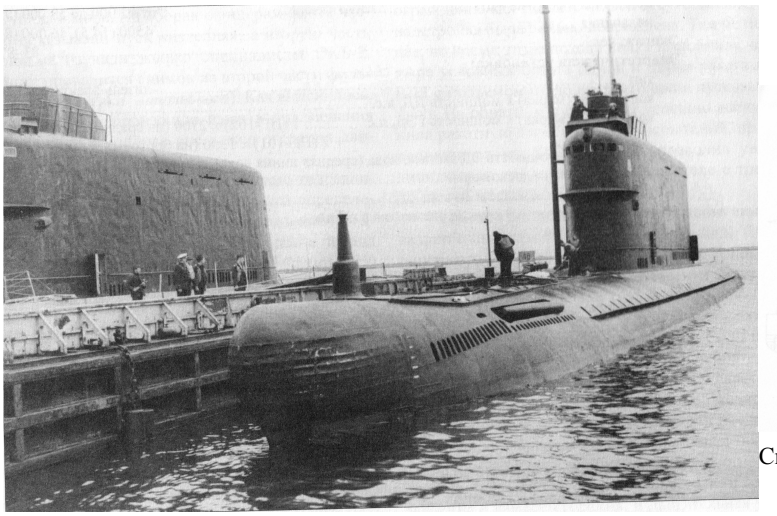
Rockets used: R-21,Zyb

Updated: 2025 Jul 16 0237:14

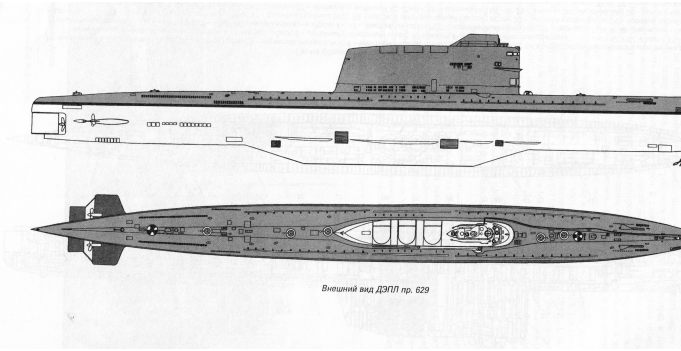
Launches: S-229

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 Aug 29	R-21	R-21 BR-II-1	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1961 Sep?	R-21	R-21 BR-II-2	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1961 Sep 11	R-21	R-21 BR-II-3	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Jan 18	Zyb	R-27 4K10 BR-II-1	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Q2?	Zyb	R-27 4K10 BR-II-2	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Q2?	Zyb	R-27 4K10 BR-II-3	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Q2?	Zyb	R-27 4K10 BR-II-4	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Q2?	Zyb	R-27 4K10 BR-II-5	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1967 Aug 10	Zyb	R-27 4K10 BR-II-6	-	S-229	S-229 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0

IV.1.11 Soviet Missile Submarines - Project 629



Credit: Apa'lkov et al 2006



Credit: Apa'lkov et al 2006

Project 629 submarines, NATO codename Golf I, had the D-1 and D-2 launch systems with R-11FM and R-13 missiles respectively. Some were later converted to Project 629A, which see.

Updated: 2025 Jul 16 0237:14

Soviet Missile Submarines - Project 629

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
629	Unknown 629 (Golf) submarine	-	GOLF	VMF	Proekt 629	-	-	- - -
K-61	K-61 Submarine	-	K-61	VMF	Proekt 629	B-29	-	- - -
K-83	K-83 Submarine	-	K-83	VMF	Proekt 629	B-42	-	- - -
K-102	K-102 Submarine	-	K-102	VMF	Proekt 629	B-121	-	- - -
K-107	K-107 Submarine	-	K-107	VMF	Proekt 629	B-125	-	- - -
K-110	K-110 Submarine	-	K-110	VMF	Proekt 629	K-110	-	- - -
K-113	K-113 Submarine	-	K-113	VMF	Proekt 629	B-146	-	- - -
K-118	K-118 Submarine		K-118	VMF	Proekt 629	B-149	-	- - -
K-136	K-136 Submarine	-	K-136	VMF	Proekt 629	B-109	-	- - -
K-153	K-153 Submarine		K-153	VMF	Proekt 629	K-153	-	- - -

IV.1.11.1 Unknown 629 (Golf) submarine

629

Rockets used: R-13

Updated: 2025 Jul 16 0237:14

Launches: GOLF

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 May 19 1300	R-13	-	-	GOLF	Unknown 629 (Golf) submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	150.0
1965 May 24 1000	R-13	-	-	GOLF	Unknown 629 (Golf) submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	150.0
1965 May 25 1300	R-13	-	-	GOLF	Unknown 629 (Golf) submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	150.0
1965 May 26 1336	R-13	-	-	GOLF	Unknown 629 (Golf) submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	150.0
1965 May 31 1330	R-13	-	-	GOLF	Unknown 629 (Golf) submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	150.0

IV.1.11.2 K-61 Submarine

IV.1.11.3 K-83 Submarine

IV.1.11.4 K-102 Submarine

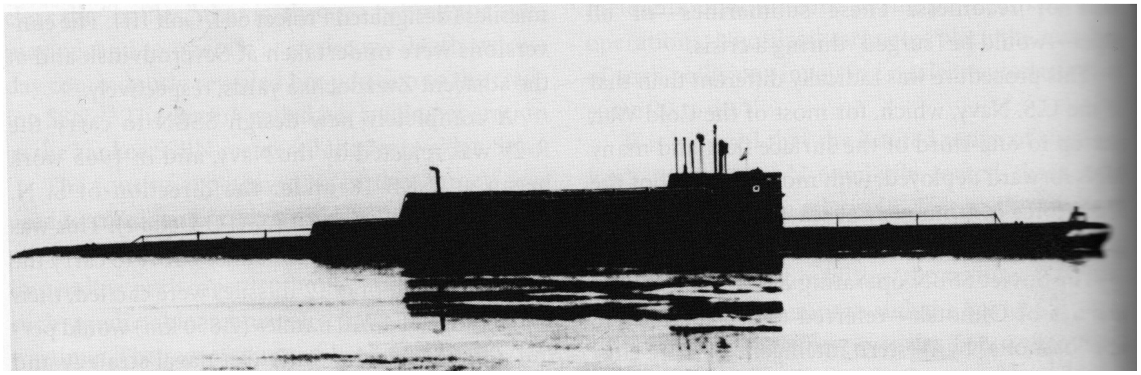
IV.1.11.5 K-107 Submarine

IV.1.11.6 K-110 Submarine

IV.1.11.7 K-113 Submarine

IV.1.11.8 K-118 Submarine

K-118



Credit: From Polmar and Moore, Cold War Submarines

Rockets used: Vysota

Updated: 2025 Jul 16 0237:14

Launches: K-118

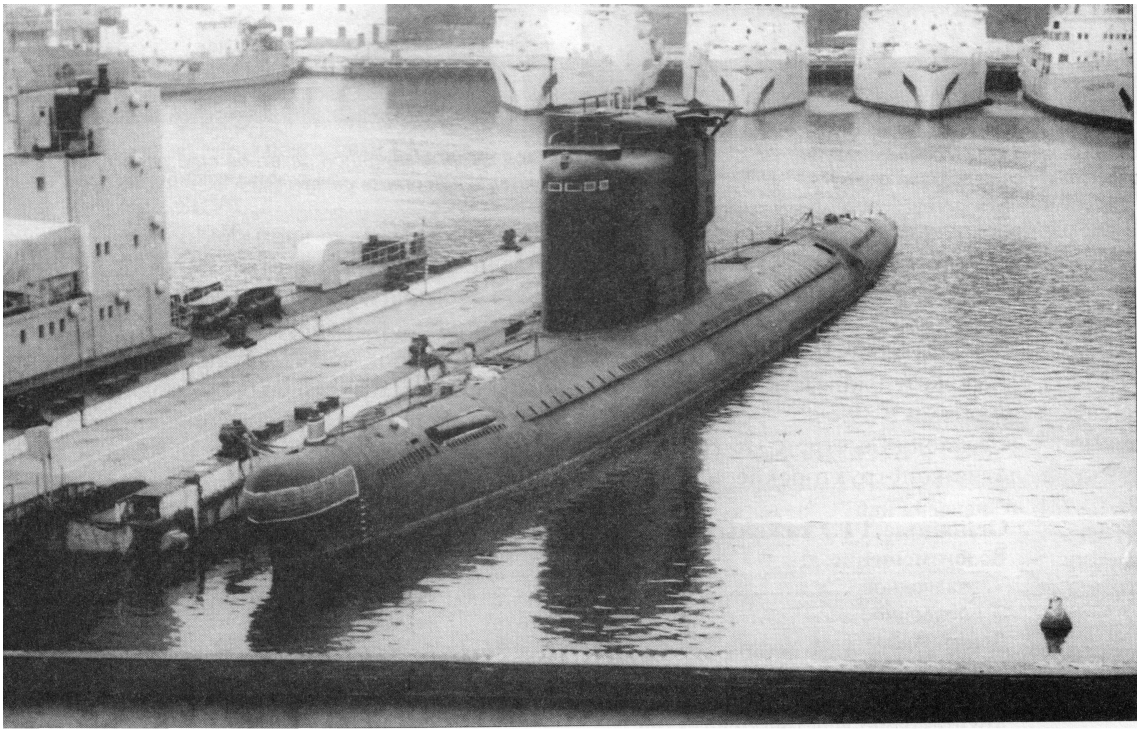
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 Dec?	Vysota	R-29 4K75 LKI-III-13	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Dec?	Vysota	R-29 4K75 LKI-III-14	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Dec 14	Vysota	R-29 4K75 LKI-III-15	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Dec 14	Vysota	R-29 4K75 LKI-III-16	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Dec 14	Vysota	R-29 4K75 LKI-III-17	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Dec 14	Vysota	R-29 4K75 LKI-III-18	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1973	Vysota	R-29 4K75 LKI-III-19	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-20	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-21	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-22	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-23	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-24	MGCh 4G75/RA46	K-118	K-118 Submarine	UNKPL	-	-	-	-	1000.0
1973	Vysota	R-29 4K75 LKI-III-25	MGCh 4G75/RA46	K-118	K-118 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.11.9 K-136 Submarine

K-136

IV.1.11.10 K-153 Submarine

K-153



Credit: Apa'lkov et al 2006

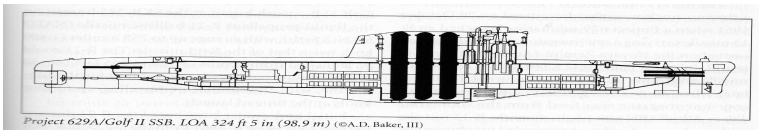
Rockets used: R-39

Updated: 2025 Jul 16 0237:14

Launches: K-153

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Dec 29	R-39	BR-II-1 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Jan?	R-39	BR-II-2 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Jan?	R-39	BR-II-3 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Jan?	R-39	BR-II-4 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Jan?	R-39	BR-II-5 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Jan?	R-39	BR-II-6 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0
1979 Sep?	R-39	BR-II-7 eject test	-	K-153	K-153 Submarine	CHM	-	-	-	34.0E 44.0N (+/- 0.5)	1.0

IV.1.12 Soviet Missile Submarines - Project 629A



Credit: (c) A.D. Baker, III; from Polmar and Moore, Cold War Submarines

Project 629A submarines (NATO name Golf II) were used to launch the R-21 missile using the D-4 system.

Updated: 2025 Jul 16 0237:15

Soviet Missile Submarines - Project 629A

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
K-36	K-36 submarine	-	K-36	VMF	Proekt 629A	B-26	-	- - -
K-72	K-72 Submarine	-	K-72	VMF	Proekt 629A	B-40	-	- - -
K-75	K-75 Submarine	-	K-75	VMF	Proekt 629A	B-46	-	- - -
K-79	K-79 Submarine	-	K-79	VMF	Proekt 629A	B-41	-	- - -
K-88	K-88 Submarine	-	K-88	VMF	Proekt 629A	B-45	-	- - -
K-91	K-91 submarine	-	K-91	VMF	Proekt 629A	B-48	-	- - -
K-93	K-93 Submarine	-	K-93	VMF	Proekt 629A	K-93	-	- - -
K-96	K-96 Submarine	-	K-96	VMF	Proekt 629A	B-92	-	- - -
K-99	K-99 Submarine	-	K-99	VMF	Proekt 629A	B-51	-	- - -
K-126	K-126 Submarine	-	K-126	VMF	Proekt 629A	B-93	-	- - -
K-129	K-129 Submarine (Proekt 629)	-	K-129A	VMF	Proekt 629A	B-103	-	- - -
K-139	K-139 Submarine	-	K-139	VMF	Proekt 629A	B-113	-	- - -
K-142	K-142 Submarine	-	K-142	VMF	Proekt 629B	K-142	-	- - -
K-163	K-163 Submarine	-	K-163	VMF	Proekt 629A	K-163	-	- - -

IV.1.12.1 K-36 submarine

K-36

IV.1.12.2 K-72 Submarine

K-72

IV.1.12.3 K-75 Submarine

K-75

IV.1.12.4 K-79 Submarine

K-79

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

Launches: K-79

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 May?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-79	K-79 Submarine	UNKPL	-	-	-	-	300.0

IV.1.12.5 K-88 Submarine

K-88

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

Launches: K-88

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-88	K-88 Submarine	UNKPL	-	-	-	-	300.0
1974 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-88	K-88 Submarine	UNKPL	-	-	-	-	300.0

IV.1.12.6 K-91 submarine

K-91

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

Launches: K-91

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-91	K-91 submarine	UNKPL	-	-	-	-	300.0
1969	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-91	K-91 submarine	UNKPL	-	-	-	-	300.0

IV.1.12.7 K-93 Submarine

IV.1.12.8 K-96 Submarine

IV.1.12.9 K-99 Submarine

IV.1.12.10 K-126 Submarine

IV.1.12.11 K-129 Submarine (Proekt 629)

IV.1.12.12 K-139 Submarine

IV.1.12.13 K-142 Submarine

K-142

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

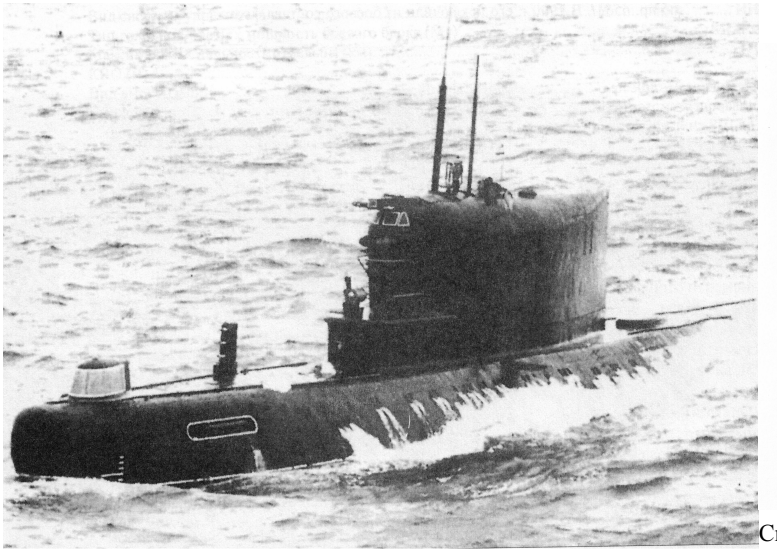
Launches: K-142

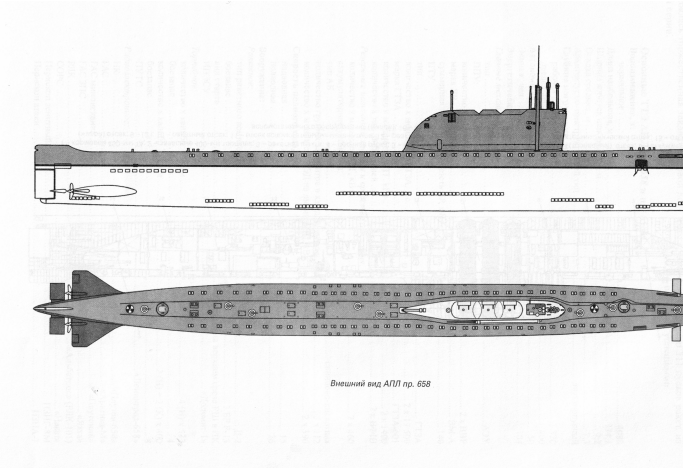
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Feb 26	R-21	R-21 4K55 LKI-III-1	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Mar?	R-21	R-21 4K55 LKI-III-2	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Mar?	R-21	R-21 4K55 LKI-III-3	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Mar?	R-21	R-21 4K55 LKI-III-4	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Jul	R-21	R-21 4K55 LKI-III-5	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Jul	R-21	R-21 4K55 LKI-III-6	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1962 Jul	R-21	R-21 4K55 LKI-III-7	MGCh 4G55/RA3	K-142	K-142 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	0.0
1971 Jan 16	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-142	K-142 Submarine	UNKPL	-	-	-	-	300.0

IV.1.12.14 K-163 Submarine

K-163

IV.1.13 Soviet Missile Submarines - Project 658





Credit: Apa'lkov et al 2006

Credit: Apa'lkov et al 2006

The Project 658 (NATO code, Hotel) submarine supported the D-2 launch system with three R-13 missiles.

Updated: 2025 Jul 16 0237:15

Soviet Missile Submarines - Project 658

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
K-16	K-16 submarine	-	K-16	VMF	Proekt 658	K-16	-	- - -
K-19	K-19 Submarine		K-19	VMF	Proekt 658	K-19	-	- - -
K-33	K-33 submarine	-	K-33	VMF	Proekt 658	K-33	-	- - -
K-40	K-40 submarine	-	K-40	VMF	Proekt 658	K-40	-	- - -
K-55	K-55 submarine	-	K-55	VMF	Proekt 658	K-55	-	- - -
K-145	K-145 Submarine	-	K-145	VMF	Proekt 658/701	K-145	-	- - -
K-149	K-149 Submarine	-	K-149	VMF	Proekt 658	K-149	-	- - -
K-178	K-178 Submarine	-	K-178	VMF	Proekt 658	K-178	-	- - -

IV.1.13.1 K-16 submarine

K-16

Rockets used: R-21

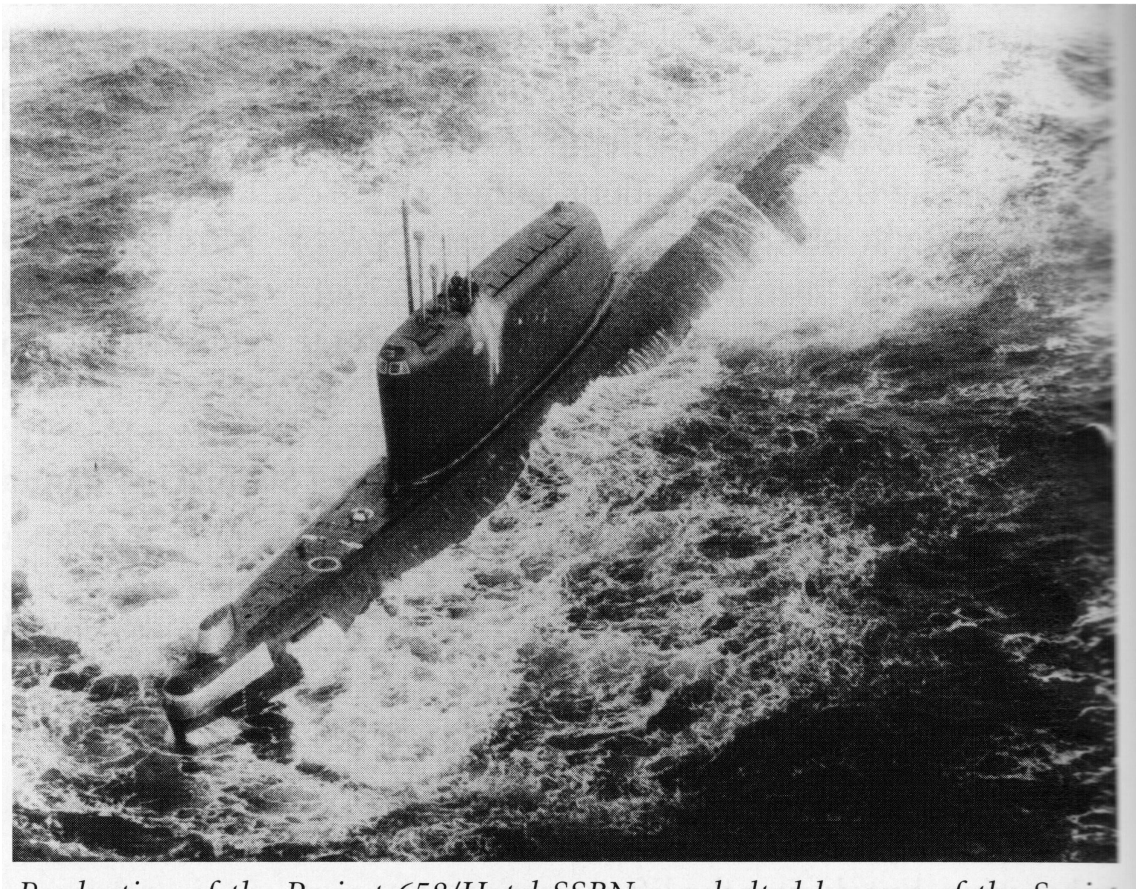
Updated: 2025 Jul 16 0237:15

Launches: K-16

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1973	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-16	K-16 submarine	UNKPL	-	-	-	-	300.0
1973	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-16	K-16 submarine	UNKPL	-	-	-	-	300.0
1975	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-16	K-16 submarine	NAOLA	-	-	-	30.0W 57.0N (+/- 9.0)	300.0
1979	R-21	R-21 8K55M UBP	MGCh	K-16	K-16 submarine	UNKPL	-	-	-	-	300.0

IV.1.13.2 K-19 Submarine

K-19



Credit: From Polmar and Moore, Cold War Submarines

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

Launches: K-19

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Dec?	R-21	R-21 4K55 LKI-III-14	MGCh 4G55/RA3	K-19	K-19 Submarine	UNKPL	-	-	-	-	300.0
1963 Dec 14	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-19	K-19 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1966	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-19	K-19 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1973 Mar 18	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-19	K-19 Submarine	UNKPL	-	-	-	-	300.0
1975 Mar 18	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-19	K-19 Submarine	UNKPL	-	-	-	-	300.0

IV.1.13.3 K-33 submarine

K-33

Rockets used: R-21

Updated: 2025 Jul 16 0237:15

Launches: K-33

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Sep 15	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	300.0
1965 Sep 15	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	300.0
1967 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	UNKPL	-	-	-	-	300.0
1967 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	UNKPL	-	-	-	-	300.0
1967 Jun?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	UNKPL	-	-	-	-	300.0
1973 Apr?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	UNKPL	-	-	-	-	300.0
1973 Apr?	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-33	K-33 submarine	UNKPL	-	-	-	-	300.0

IV.1.13.4 K-40 submarine

IV.1.13.5 K-55 submarine

IV.1.13.6 K-145 Submarine

Rockets used: Vysota

Updated: 2025 Jul 16 0237:15

Launches: K-145

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971 Dec 25	Vysota	R-29 4K75 LKI-III-1	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Jan?	Vysota	R-29 4K75 LKI-III-2	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Mar?	Vysota	R-29 4K75 LKI-III-3	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Apr?	Vysota	R-29 4K75 LKI-III-4	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Aug 21	Vysota	R-29 4K75 LKI-III-5	MGCh 4G75/RA46	K-145	K-145 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1972 Sep?	Vysota	R-29 4K75 LKI-III-6	MGCh 4G75/RA46	K-145	K-145 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1972 Sep?	Vysota	R-29 4K75 LKI-III-7	MGCh 4G75/RA46	K-145	K-145 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1972 Sep?	Vysota	R-29 4K75 LKI-III-8	MGCh 4G75/RA46	K-145	K-145 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1972 Sep?	Vysota	R-29 4K75 LKI-III-9	MGCh 4G75/RA46	K-145	K-145 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1972 Nov 25	Vysota	R-29 4K75 LKI-III-10	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Nov 28	Vysota	R-29 4K75 LKI-III-11	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1972 Nov 28	Vysota	R-29 4K75 LKI-III-12	MGCh 4G75/RA46	K-145	K-145 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.13.7 K-149 Submarine

K-149

IV.1.13.8 K-178 Submarine

K-178

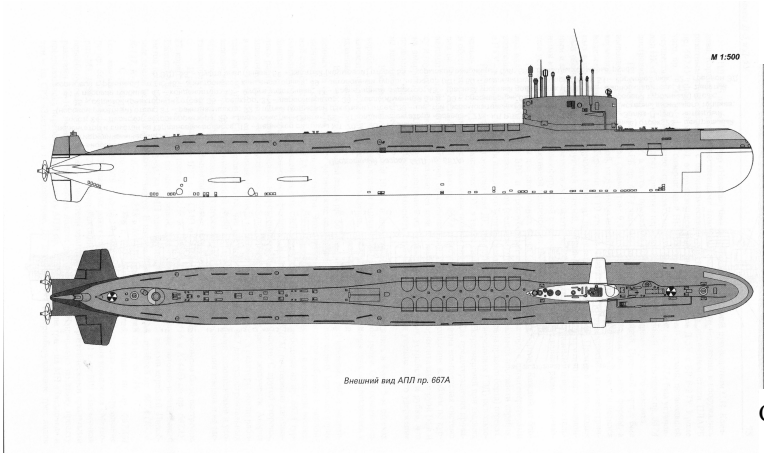
Rockets used: R-21

Updated: 2025 Jul 16 0237:15

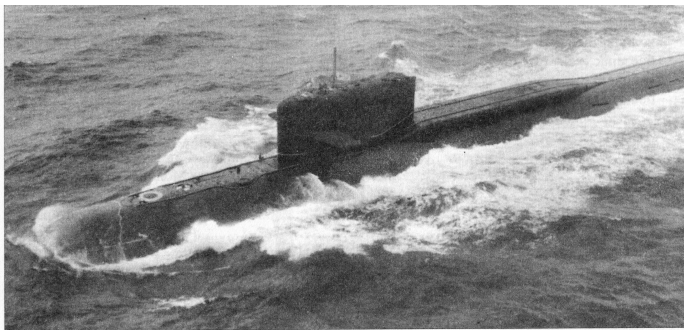
Launches: K-178

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971	R-21	R-21 4K55 UBP	MGCh 4G55/RA3	K-178	K-178 Submarine	UNKPL	-	-	-	-	300.0

IV.1.14 Soviet Missile Submarines - Project 667/667A



Credit: Apa'lkov et al 2006



Credit: Apa'lkov et al 2006

The Project 667A Navaga submarines (NATO codename YANKEE) carried 16 R-27 missiles. The K-140 was later converted to Project 667AM Navaga-M, with the R-31 missile.

Some 667 submarines were converted to 667AT and 667M variants without ballistic missiles.

Updated: 2025 Jul 16 0237:15

Soviet Missile Submarines - Project 667/667A

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
K-26	K-26 submarine	-	K-26	VMF	Proekt 667A	K-26	-	- - -
K-32	K-32 submarine	-	K-32	VMF	Proekt 667A	K-32	-	- - -
K-137	K-137 Submarine	-	K-137	VMF	Proekt 667AU	K-137	-	- - -
K-140	K-140 Submarine		K-140	VMF	Proekt 667AM	K-140	-	- - -
K-207	K-207 Submarine	-	K-207	VMF	Proekt 667A	K-207	-	- - -
K-210	K-210 Submarine	-	K-210	VMF	Proekt 667A	K-210	-	- - -
K-214	K-214 Submarine	-	K-214	VMF	Proekt 667AU	K-214	-	- - -
K-216	K-216 Submarine	-	K-216	VMF	Proekt 667A	K-216	-	- - -
K-219	K-219 Submarine	-	K-219	VMF	Proekt 667AU	K-219	-	- - -
K-228	K-228 submarine	-	K-228	VMF	Proekt 667AU	K-228	-	- - -
K-236	K-236 submarine	-	K-236	VMF	Proekt 667AU	K-236	-	- - -
K-241	K-241 submarine	-	K-241	VMF	Proekt 667AU	K-241	-	- - -
K-245	K-245 submarine	-	K-245	VMF	Proekt 667AU	K-245	-	- - -
K-249	K-249 Submarine	-	K-249	VMF	Proekt 667A	K-249	-	- - -
K-252	K-252 submarine	-	K-252	VMF	Proekt 667A	K-252	-	- - -
K-253	K-253 Submarine	-	K-253	VMF	Proekt 667A	K-253	-	- - -
K-258	K-258 Submarine	-	K-258	VMF	Proekt 667AU	K-258	-	- - -
K-339	K-339 Submarine	-	K-339	VMF	Proekt 667A	K-339	-	- - -
K-389	K-389 submarine	-	K-389	VMF	Proekt 667A	K-389	-	- - -
K-395	K-395 submarine	-	K-395	VMF	Proekt 667A	K-395	-	- - -
K-403	K-403 submarine	-	K-403	VMF	Proekt 667A	K-403	-	- - -
K-408	K-408 Submarine	-	K-408	VMF	Proekt 667A	K-408	-	- - -
K-411	K-411 Submarine	-	K-411	VMF	Proekt 667A	K-411	-	- - -
K-415	K-415 Submarine	-	K-415	VMF	Proekt 667A	K-415	-	- - -
K-418	K-418 Submarine	-	K-418	VMF	Proekt 667A	K-418	-	- - -
K-420	K-420 Submarine	-	K-420	VMF	Proekt 667A	K-420	-	- - -
K-423	K-423 Submarine	-	K-423	VMF	Proekt 667A	K-423	-	- - -
K-426	K-426 Submarine	-	K-426	VMF	Proekt 667A	K-426	-	- - -
K-430	K-430 Submarine	-	K-430	VMF	Proekt 667AU	K-430	-	- - -
K-434	K-434 Submarine	-	K-434	VMF	Proekt 667AU	K-434	-	- - -
K-436	K-436 Submarine	-	K-436	VMF	Proekt 667AU	K-436	-	- - -
K-444	K-444 submarine	-	K-444	VMF	Proekt 667AU	K-444	-	- - -
K-446	K-446 submarine	-	K-446	VMF	Proekt 667AU	K-446	-	- - -
K-451	K-451 submarine	-	K-451	VMF	Proekt 667AU	K-451	-	- - -

IV.1.14.1 K-26 submarine

K-26

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-26

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Apr?	Zyb	R-27U 3M20 UBP	3 BB RA83	K-26	K-26 submarine	UNKPL	-	-	-	-	620.0

IV.1.14.2 K-32 submarine

K-32

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-32

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0
1969 Dec 19 0530	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-32	K-32 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	620.0

IV.1.14.3 K-137 Submarine

K-137

Rockets used: Zyb

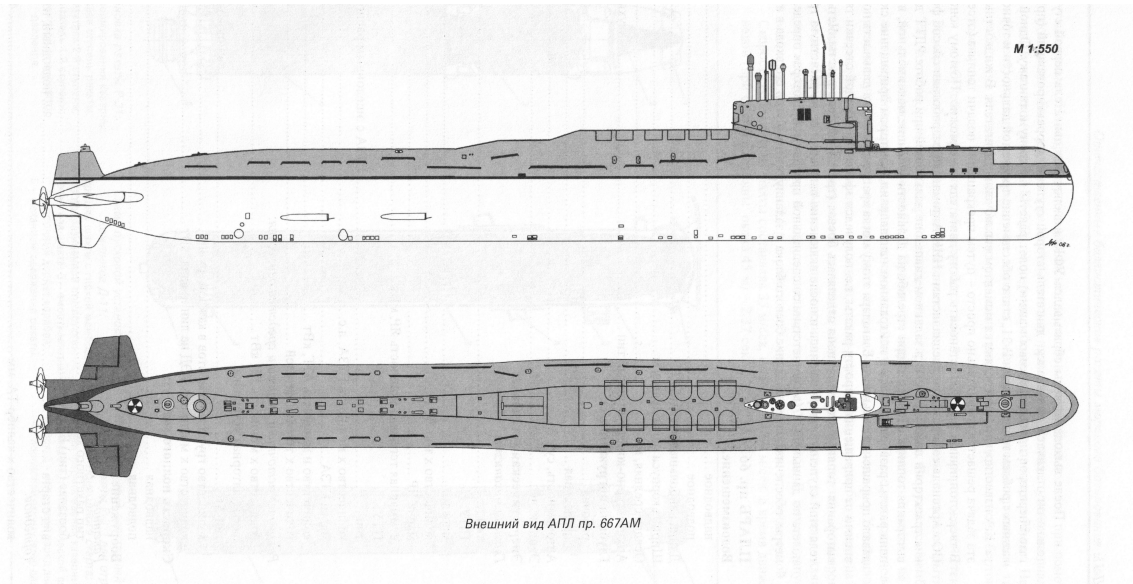
Updated: 2025 Jul 16 0237:15

Launches: K-137

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967 Sep 6	Zyb	R-27 4K10 LKI-IV-1	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1967 Sep 27	Zyb	R-27 4K10 LKI-IV-2	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1967 Sep 27	Zyb	R-27 4K10 LKI-IV-3	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1967 Oct 2	Zyb	R-27 4K10 LKI-IV-4	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1967 Oct 2	Zyb	R-27 4K10 LKI-IV-5	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1967 Oct 2	Zyb	R-27 4K10 LKI-IV-6	MGCh 4G10/RA15	K-137	K-137 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	620.0
1978 Mar 19	Zyb	R-27U 3M20 UBP	3 BB RA83	K-137	K-137 Submarine	GRSEA	-	-	-	5.0W 75.0N (+/- 5.0)	620.0
1978 Mar 19	Zyb	R-27U 3M20 UBP	3 BB RA83	K-137	K-137 Submarine	GRSEA	-	-	-	5.0W 75.0N (+/- 5.0)	620.0
1987 Sep?	Zyb	R-27U 3M20U UBP	-	K-137	K-137 Submarine	UNKPL	-	-	-	-	620.0
1987 Sep?	Zyb	R-27U 3M20U UBP	-	K-137	K-137 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.4 K-140 Submarine

K-140



Credit: Apa'lkov et al 2006

Rockets used: Zyb,R-31

Updated: 2025 Jul 16 0237:15

Launches: K-140

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 Jul?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-140	K-140 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	620.0
1972 Jul?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-140	K-140 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	620.0
1972 Jul?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-140	K-140 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	620.0
1972 Jul?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-140	K-140 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	620.0
1976 Dec 22 0430	R-31	3M17 LKI-III-1	-	K-140	K-140 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1977	R-31	3M17 LKI-III-2	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1977	R-31	3M17 LKI-III-3	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1977	R-31	3M17 LKI-III-4	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1977	R-31	3M17 LKI-III-5	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1977	R-31	3M17 LKI-III-6	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1977	R-31	3M17 LKI-III-7	-	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-8	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-9	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-10	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-11	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-12	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-13	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1978	R-31	3M17 LKI-III-14	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979	R-31	3M17 LKI-III-15	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979	R-31	3M17 LKI-III-16	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979	R-31	3M17 LKI-III-17	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979	R-31	3M17 LKI-III-18	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979	R-31	3M17 LKI-III-19	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979 Aug	R-31	3M17 LKI-III-20	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1979 Sep?	R-31	3M17 UBP	MGCh	K-140	K-140 Submarine	KARA	-	-	-	75.0E 75.0N (+/- 9.0)	1000.0
1979 Sep?	R-31	3M17 UBP	MGCh	K-140	K-140 Submarine	KARA	-	-	-	75.0E 75.0N (+/- 9.0)	1000.0
1990 Sep 17	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Sep 18	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Sep 29	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Sep 30	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Sep 30	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Oct 1	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	0.0
1990 Oct 11	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Oct 11	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Oct 11	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Oct 11	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Nov 30	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0
1990 Nov 30	R-31	3M17 Util	MGCh	K-140	K-140 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.14.5 K-207 Submarine

K-207

IV.1.14.6 K-210 Submarine

K-210

IV.1.14.7 K-214 Submarine

K-214

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-214

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 May?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-214	K-214 Submarine	UNKPL	-	-	-	-	620.0
1975 Sep	Zyb	R-27U 3M20 UBP	3 BB RA83	K-214	K-214 Submarine	UNKPL	-	-	-	-	620.0
1976	Zyb	R-27U 3M20 UBP	3 BB RA83	K-214	K-214 Submarine	GRSEA	-	-	-	5.0W 75.0N (+/- 5.0)	620.0
1976	Zyb	R-27U 3M20 UBP	3 BB RA83	K-214	K-214 Submarine	GRSEA	-	-	-	5.0W 75.0N (+/- 5.0)	620.0

IV.1.14.8 K-216 Submarine

K-216

IV.1.14.9 K-219 Submarine

K-219

IV.1.14.10 K-228 submarine

K-228

Rockets used: Zyb R-27U

Updated: 2025 Jul 16 0237:15

Launches: K-228

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-1	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-2	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-3	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-4	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-5	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-6	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-7	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-8	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-9	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-10	MGCh RA82	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-11	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-12	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-13	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1972 Sep	Zyb R-27U	R-27U 3M20 LKI-14	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1973 Aug	Zyb R-27U	R-27U 3M20 LKI-15	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0
1973 Aug	Zyb R-27U	R-27U 3M20 LKI-15	3 BB RA83	K-228	K-228 submarine	UNKPL	-	-	-	-	620.0

IV.1.14.11 K-236 submarine

K-236

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-236

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971 Sep?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-236	K-236 submarine	UNKPL	-	-	-	-	620.0

IV.1.14.12 K-241 submarine

K-241

IV.1.14.13 K-245 submarine

K-245

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-245

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972 Oct 21	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	620.0
1973 Jun 26	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	UNKPL	-	-	-	-	620.0
1973 Jun 26	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	UNKPL	-	-	-	-	620.0
1973 Jun 26	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	UNKPL	-	-	-	-	620.0
1973 Jun 26	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	UNKPL	-	-	-	-	620.0
1973 Jun 26	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-245	K-245 submarine	UNKPL	-	-	-	-	620.0

IV.1.14.14 K-249 Submarine

K-249

IV.1.14.15 K-252 submarine

K-252

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-252

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Apr?	Zyb	R-27U 3M20 UBP	3 BB RA83	K-252	K-252 submarine	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	620.0
1978 Mar?	Zyb	R-27U 3M20 UBP	3 BB RA83	K-252	K-252 submarine	UNKPL	-	-	-	-	620.0
1984	Zyb	R-27U 3M20U UBP	-	K-252	K-252 submarine	UNKPL	-	-	-	-	0.0

IV.1.14.16 K-253 Submarine

K-253

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-253

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Apr 27	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-253	K-253 Submarine	NAOLA	-	-	-	30.0W 57.0N (+/- 9.0)	620.0
1971	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-253	K-253 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.17 K-258 Submarine

K-258

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-258

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0
1975 Oct	Zyb	R-27U 3M20 UBP	3 BB RA83	K-258	K-258 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.18 K-339 Submarine

K-339

IV.1.14.19 K-389 submarine

K-389

IV.1.14.20 K-395 submarine

K-395

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-395

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Nov 30	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-395	K-395 submarine	UNKPL	-	-	-	-	620.0
1969 Nov 30	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-395	K-395 submarine	UNKPL	-	-	-	-	620.0
1972 Sep 9	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-395	K-395 submarine	UNKPL	-	-	-	-	620.0
1974 Feb 3	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-395	K-395 submarine	UNKPL	-	-	-	-	620.0
1975 Jan 20	Zyb	R-27U 3M20 UBP	3 BB RA83	K-395	K-395 submarine	UNKPL	-	-	-	-	620.0

IV.1.14.21 K-403 submarine

K-403

IV.1.14.22 K-408 Submarine

K-408

IV.1.14.23 K-411 Submarine

K-411

IV.1.14.24 K-415 Submarine

K-415

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-415

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Dec?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-415	K-415 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.25 K-418 Submarine

K-418

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-418

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971 Jan 16	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-418	K-418 Submarine	UNKPL	-	-	-	-	620.0
1974 Apr 24	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-418	K-418 Submarine	GRSEA	-	-	-	5.0W 75.0N (+/- 5.0)	620.0

IV.1.14.26 K-420 Submarine

K-420

IV.1.14.27 K-423 Submarine

K-423

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-423

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976	Zyb	R-27U 3M20 UBP	3 BB RA83	K-423	K-423 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.28 K-426 Submarine

K-426

IV.1.14.29 K-430 Submarine

K-430

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-430

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1975 Jul 5	Zyb	R-27U 3M20 UBP	3 BB RA83	K-430	K-430 Submarine	UNKPL	-	-	-	-	620.0
1992 Dec 9 0000	Zyb	Efir	-	K-430	K-430 Submarine	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	620.0
1993 Nov 2	Zyb	Efir	R-27U Zyb'	K-430	K-430 Submarine	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	620.0

IV.1.14.30 K-434 Submarine

K-434

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-434

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1973?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-434	K-434 Submarine	UNKPL	-	-	-	-	620.0
1973?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-434	K-434 Submarine	UNKPL	-	-	-	-	620.0
1973?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-434	K-434 Submarine	UNKPL	-	-	-	-	620.0
1973?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-434	K-434 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.31 K-436 Submarine

K-436

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-436

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979 Nov	Zyb	R-27U 3M20U UBP	3 BB RA83	K-436	K-436 Submarine	UNKPL	-	-	-	-	620.0

IV.1.14.32 K-444 submarine

K-444

Rockets used: Zyb

Updated: 2025 Jul 16 0237:15

Launches: K-444

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Jun?	Zyb	R-27 4K10 UBP	MGCh 4G10/RA15	K-444	K-444 submarine	UNKPL	-	-	-	-	620.0
1976	Zyb	R-27U 3M20 UBP	3 BB RA83	K-444	K-444 submarine	UNKPL	-	-	-	-	620.0
1976	Zyb	R-27U 3M20 UBP	3 BB RA83	K-444	K-444 submarine	UNKPL	-	-	-	-	620.0
1976 Aug?	Zyb	R-27U 3M20 UBP	3 BB RA83	K-444	K-444 submarine	UNKPL	-	-	-	-	620.0
1976 Aug?	Zyb	R-27U 3M20 UBP	3 BB RA83	K-444	K-444 submarine	UNKPL	-	-	-	-	620.0
1983 Sep 5	Zyb	R-27U 3M20U UBP	Magistral'	K-444	K-444 submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0

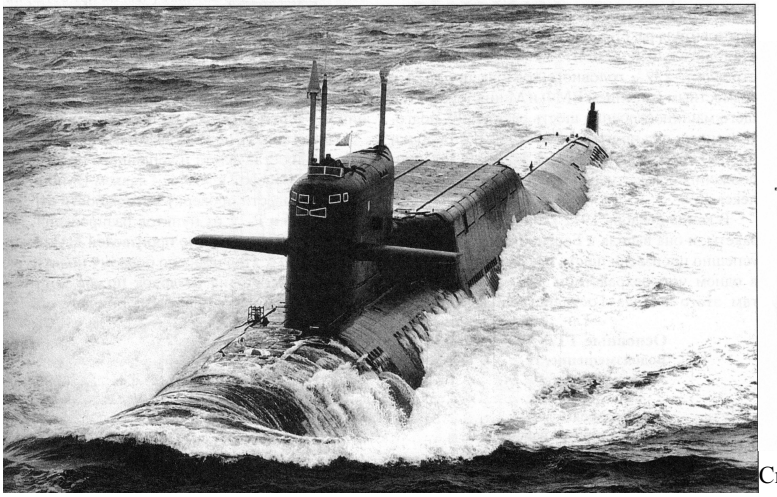
IV.1.14.33 K-446 submarine

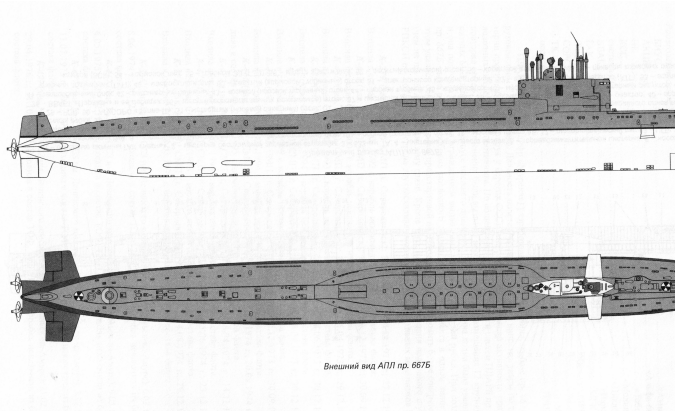
K-446

IV.1.14.34 K-451 submarine

K-451

IV.1.15 Soviet Missile Submarines - Project 667B





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Credit: Apa'lkov et al 2006

Project 667B Murena submarines (NATO codename Delta I) carried 12 R-29 missiles.

Updated: 2025 Jul 16 0237:15

Soviet Missile Submarines - Project 667B

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
K-171	K-171 Submarine	-	K-171	VMF	Proekt 667B	K-171	-	- - -
K-279	K-279 Submarine	-	K-279	VMF	Proekt 667B	K-279	-	- - -
K-336	K-336 submarine	-	K-336	VMF	Proekt 667B	K-336	-	- - -
K-385	K-385 submarine	-	K-385	VMF	Proekt 667B	K-385	-	- - -
K-417	K-417 Submarine	-	K-417	VMF	Proekt 667B	K-417	-	- - -
K-447 Кисловодск	K-447 Kislovodsk Submarine	-	K-447	VMF	Proekt 667B	K-447	-	- - -
K-450	K-450 submarine	-	K-450	VMF	Proekt 667B	K-450	-	- - -
K-457	K-457 Submarine	-	K-457	VMF	Proekt 667B	K-457	-	- - -
K-460	K-460 Submarine	-	K-460	VMF	Proekt 667B	K-460	-	- - -
K-465	K-465 Submarine	-	K-465	VMF	Proekt 667B	K-465	-	- - -
K-472	K-472 Submarine	-	K-472	VMF	Proekt 667B	K-472	-	- - -
K-475	K-475 Submarine	-	K-475	VMF	Proekt 667B	K-475	-	- - -
K-477	K-477 Submarine	-	K-477	VMF	Proekt 667B	K-477	-	- - -
K-497	K-497 Submarine	-	K-497	VMF	Proekt 667B	K-497	-	- - -
K-500	K-500 Submarine	-	K-500	VMF	Proekt 667B	K-500	-	- - -
K-512	K-512 submarine	-	K-512	VMF	Proekt 667B	K-512	-	- - -
K-523	K-523 submarine	-	K-523	VMF	Proekt 667B	K-523	-	- - -
K-530	K-530 submarine	-	K-530	VMF	Proekt 667B	K-530	-	- - -

IV.1.15.1 K-171 Submarine

K-171

Rockets used: Vysota

Updated: 2025 Jul 16 0237:15

Launches: K-171

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980	Vysota	R-29 4K75D UBP	-	K-171	K-171 Submarine	UNKPL	-	-	-	-	1000.0
1980 Jul	Vysota	R-29 4K75D UBP	-	K-171	K-171 Submarine	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	1000.0

IV.1.15.2 K-279 Submarine

K-279

Rockets used: Vysota

Updated: 2025 Jul 16 0237:15

Launches: K-279

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1973	Vysota	R-29 4K75 LKI-III-26	MGCh 4G75/RA46	K-279	K-279 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1973	Vysota	R-29 4K75 LKI-III-27	MGCh 4G75/RA46	K-279	K-279 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1973	Vysota	R-29 4K75 LKI-III-28	MGCh 4G75/RA46	K-279	K-279 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1973	Vysota	R-29 4K75 LKI-III-29	MGCh 4G75/RA46	K-279	K-279 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1973	Vysota	R-29 4K75 LKI-III-30	MGCh 4G75/RA46	K-279	K-279 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1973	Vysota	R-29 4K75 LKI-III-31	MGCh 4G75/RA46	K-279	K-279 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.15.3 K-336 submarine

K-336

IV.1.15.4 K-385 submarine

K-385

Rockets used: Vysota

Updated: 2025 Jul 16 0237:15

Launches: K-385

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Jan 31?	Vysota	R-29 4K75D UBP	MGCh	K-385	K-385 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.15.5 K-417 Submarine

К-417

IV.1.15.6 K-447 Kislovodsk Submarine

К-447 Кисловодск

Rockets used: Vysota,Volna

Updated: 2025 Jul 16 0237:15

Launches: K-447

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1974 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1979	Vysota	R-29 4K75D UBP	-	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1981 Jul 3	Vysota	R-29 4K75D UBP	-	K-447	K-447 Kislovodsk Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1981 Jul 3	Vysota	R-29 4K75D UBP	-	K-447	K-447 Kislovodsk Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1984 Apr?	Vysota	R-29 4K75D UBP	3 BB?	K-447	K-447 Kislovodsk Submarine	UNKPL	-	-	-	-	1000.0
1995 Sep	Vysota	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1995 Sep	Vysota	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Jul 15	Vysota	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Jul 15	Vysota	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Jul 15	Vysota	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Oct?	Volna	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1997 Oct 3	Vysota	R-29 4K75DU UBP	Souvenir container	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1997 Nov?	Volna	R-29 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1998 Jul?	Volna	R-29R 4K75DU UBP	MGCh	K-447	K-447 Kislovodsk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.15.7 K-450 submarine

K-450

IV.1.15.8 K-457 Submarine

K-457

Rockets used: Vysota,Volna

Updated: 2025 Jul 16 0237:16

Launches: K-457

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Jul	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-457	K-457 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1975 Jul	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-457	K-457 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1980 May 14?	Vysota	R-29 4K75D UBP	-	K-457	K-457 Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1980 May 14?	Vysota	R-29 4K75D UBP	-	K-457	K-457 Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1997 Sep 2	Volna	R-29 4K75DU UBP	MGCh	K-457	K-457 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.15.9 K-460 Submarine

K-460

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-460

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Aug?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-460	K-460 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1974 Aug?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-460	K-460 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1975	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-460	K-460 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1977 Jul 2?	Vysota	R-29 4K75D UBP	MGCh 4G75/RA46	K-460	K-460 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.10 K-465 Submarine

K-465

IV.1.15.11 K-472 Submarine

K-472

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-472

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979	Vysota	R-29 4K75D UBP	-	K-472	K-472 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.12 K-475 Submarine

K-475

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-475

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	K-475	K-475 Submarine	UNKPL	-	-	-	-	1000.0
1977 Jul 3?	Vysota	R-29 4K75D UBP	MGCh 4G75/RA46	K-475	K-475 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.13 K-477 Submarine

K-477

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-477

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1977 Sep	Vysota	R-29 4K75D UBP	MGCh 4G75/RA46	K-477	K-477 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.14 K-497 Submarine

K-497

IV.1.15.15 K-500 Submarine

K-500

IV.1.15.16 K-512 submarine

K-512

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-512

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Oct 9	Vysota	R-29 4K75D UBP	MGCh	K-512	K-512 submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.17 K-523 submarine

K-523

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-523

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1981 Nov	Vysota	R-29 4K75D UBP	MGCh	K-523	K-523 submarine	UNKPL	-	-	-	-	1000.0

IV.1.15.18 K-530 submarine

K-530

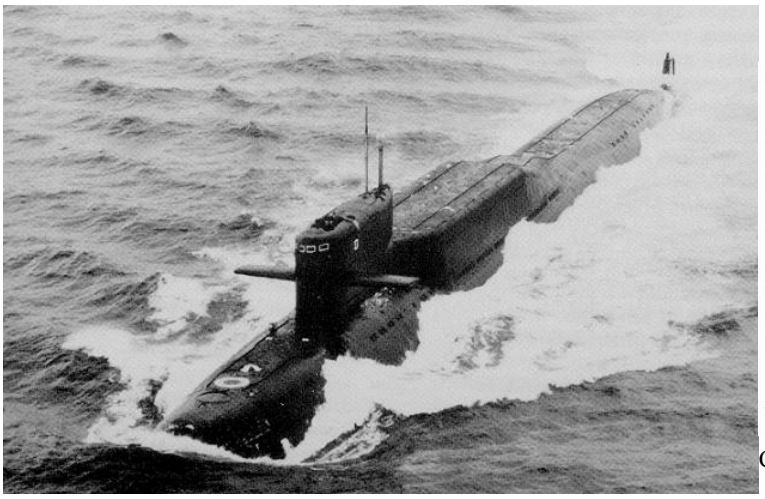
Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

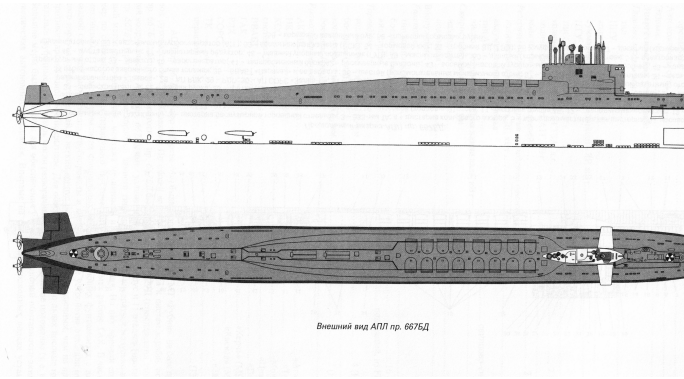
Launches: K-530

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1979	Vysota	R-29 4K75D UBP	-	K-530	K-530 submarine	SIMSH	-	-	-	152.0E 47.0N (+/- 1.0)	1000.0
1996 Jun 28	Vysota	R-29 4K75DU UBP	MGCh	K-530	K-530 submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.16 Soviet Missile Submarines - Project 667BD



Credit: [credit unknown]



Credit: Apa'lkov et al 2006

Project 667BD Murena-M submarines (NATO designation Delta II) carried 16 R-29 missiles.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Project 667BD

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
667БД	Unknown 667BD (Murena-M, Delta 2) class submarine	-	DELTA2	VMF	Proekt 667BD	-	-	- - -
К-92	K-92 Submarine	-	K-92	VMF	Proekt 667BD	K-92	-	- - -
К-182 60 лет Великого Октября	K-182 60 Let Velikogo Oktyabria Submarine	-	K-182	VMF	Proekt 667BD	K-182	-	- - -
К-193	K-193 Submarine	-	K-193	VMF	Proekt 667BD	K-193	-	- - -
К-421	K-421 Submarine	-	K-421	VMF	Proekt 667BD	K-193	-	- - -

IV.1.16.1 Unknown 667BD (Murena-M, Delta 2) class submarine

667БД

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: DELTA2

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1986 Sep	Vysota	R-29 4K75D UBP	MGCh	DELTA2	Unknown 667BD (Murena-M, Delta 2) class submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.16.2 K-92 Submarine

K-92

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-92

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Apr 23	Vysota	R-29 4K75D UBP	MGCh	K-92	K-92 Submarine	STANNA	-	-	-	69.0E 80.0N (+/- 1.0)	1000.0
1982 Apr 23	Vysota	R-29 4K75D UBP	MGCh	K-92	K-92 Submarine	STANNA	-	-	-	69.0E 80.0N (+/- 1.0)	1000.0
1982 Jun 18	Vysota	R-29 4K75D UBP	Shchit-82 ABM Target	K-92	K-92 Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1983	Vysota	R-29 4K75D UBP	MGCh	K-92	K-92 Submarine	UNKPL	-	-	-	-	1000.0
1984 Jul?	Vysota	R-29 4K75D UBP	MGCh	K-92	K-92 Submarine	STANNA	-	-	-	69.0E 80.0N (+/- 1.0)	1000.0
1986 Aug?	Vysota	R-29 4K75D UBP	MGCh	K-92	K-92 Submarine	UNKPL	-	-	-	-	0.0
1992 Jun?	Vysota	R-29 4K75DU UBP	MGCh	K-92	K-92 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.16.3 K-182 60 Let Velikogo Oktyabria Submarine

К-182 60 лет Великого Октября

IV.1.16.4 K-193 Submarine

K-193

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-193

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978?	Vysota	R-29 4K75D UBP	-	K-193	K-193 Submarine	UNKPL	-	-	-	-	1000.0
1986	Vysota	R-29 4K75D UBP	MGCh	K-193	K-193 Submarine	UNKPL	-	-	-	-	1000.0
1990	Vysota	R-29 4K75DU UBP	MGCh	K-193	K-193 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1990	Vysota	R-29 4K75DU UBP	MGCh	K-193	K-193 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.16.5 K-421 Submarine

K-421

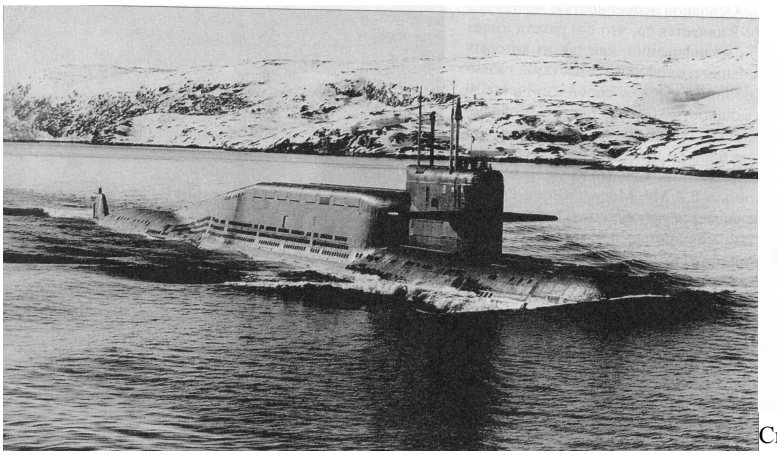
Rockets used: Vysota

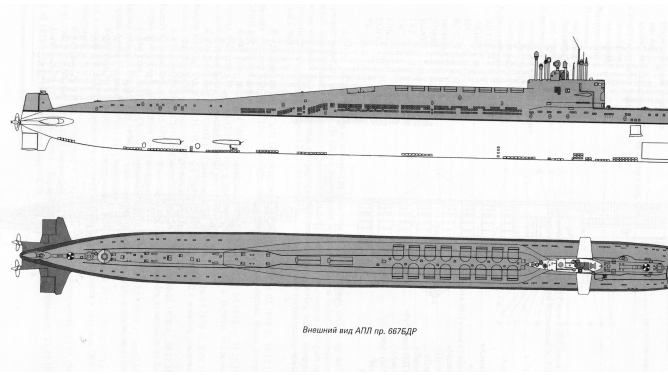
Updated: 2025 Jul 16 0237:16

Launches: K-421

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978 Apr?	Vysota	R-29 4K75D UBP	-	K-421	K-421 Submarine	UNKPL	-	-	-	-	1000.0
1982 Jan 29?	Vysota	R-29 4K75D UBP	MGCh	K-421	K-421 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1982 Jan 30?	Vysota	R-29 4K75D UBP	MGCh	K-421	K-421 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1994	Vysota	R-29 4K75DU UBP	MGCh	K-421	K-421 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.17 Soviet Missile Submarines - Project 667BDR





Credit: Apa'lkov et al 2006

Credit: Apa'lkov et al 2006

Project 667BDR Kalmar submarines (NATO designation Delta III) carried 16 R-29R missiles.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Project 667BDR

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
К-44 Рязань	K-44 Ryazan Submarine	-	K-44	VMF	Proekt 667BDR	K-44	-	- - -
К-129	K-129 Submarine (Proekt 667BDR)	-	K-129	VMF	Proekt 667BDR	K-129	-	- - -
К-180	K-180 Submarine	-	K-180	VMF	Proekt 667BDR	K-180	-	- - -
К-211 Петропавловск-Камчатский	K-211 Petropavlovsk-Kamchatkskiy submarine	-	K-211	VMF	Proekt 667BDR	K-211	-	- - -
К-233 Подольск	K-223 Podolsk submarine	-	K-223	VMF	Proekt 667BDR	K-223	-	- - -
К-424	K-424 Submarine	-	K-424	VMF	Proekt 667BDR	K-424	-	- - -
К-433 Святой Георгий Победоносец	K-433 Svyaity Georgiy Pobedonosets	-	K-433	VMF	Proekt 667BDR	K-433	-	- - -
К-441	K-441 submarine	-	K-441	VMF	Proekt 667BDR	K-441	-	- - -
К-449	K-449 submarine	-	K-449	VMF	Proekt 667BDR	K-449	-	- - -
К-455	K-455 submarine	-	K-455	VMF	Proekt 667BDR	K-455	-	- - -
К-487	K-487 Submarine	-	K-487	VMF	Proekt 667BDR	K-487	-	- - -
К-490	K-490 Submarine	-	K-490	VMF	Proekt 667BDR	K-490	-	- - -
К-496 Борисоглебск	K-496 Borisoglebsk submarine	-	K-496	VMF	Proekt 667BDR	K-490	-	- - -
К-506 Зеленоград	K-506 Zelenograd submarine	-	K-506	VMF	Proekt 667BDR	K-506	-	- - -
667БДР Кальмар	Unknown Kalmar (667 BDR, Delta III) class sub	-	KALMAR	VMF	Proekt 667BDR	-	-	- - -

IV.1.17.1 K-44 Ryazan Submarine

К-44 Рязань

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-44

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1986	Volna	R-29R 3M40K UBP	7 BB	K-44	K-44 Ryazan Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1995 Jun 6 2210	Volna	Volan	Tech Module	K-44	K-44 Ryazan Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1270.0
1999 Oct 1 0545	Volna	R-29RKU-01 UBP	3 BB 3G95	K-44	K-44 Ryazan Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
2002 Jul 12 0058:31	Volna	R-29R	IRDT-2	K-44	K-44 Ryazan Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	200.0
2008 Aug 1 0900	Volna	R-29RKU-01 UBP	3 BB 3G95	K-44	K-44 Ryazan Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2009 Oct 7 0630	Volna	R-29RKU-02 UBP	3 BB	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2017 Oct 26 1507:20	Volna	R-29RKU-02 UBP	3 BB	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2017 Oct 26 1507:33	Volna	R-29RKU-02 UBP	3 BB	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2018 Oct 11 1014	Volna	R-29RKU-02 UBP	3 BB	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2018 Oct 11 1014?	Volna	-	-	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2019 Oct 17?	Volna	R-29RKU-02 UBP	3 BB	K-44	K-44 Ryazan Submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.17.2 K-129 Submarine (Proekt 667BDR)

K-129

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-129

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985	Volna	R-29R 3M40K UBP	7 BB	K-129	K-129 Submarine (Proekt 667BDR)	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1985	Volna	R-29R 3M40K UBP	7 BB	K-129	K-129 Submarine (Proekt 667BDR)	NAOLA	-	-	-	30.0W 57.0N (+/- 9.0)	1000.0

IV.1.17.3 K-180 Submarine

K-180

Rockets used: Vysota

Updated: 2025 Jul 16 0237:16

Launches: K-180

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982?	Vysota	R-29R 3M40L UBP	3 BB	K-180	K-180 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.17.4 K-211 Petropavlovsk-Kamchatkskiy submarine

К-211 Петропавловск-Камчатский

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-211

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1996 Jun 28	Volna	R-29RKU-01 UBP	3 BB 3G95	K-211	K-211 Petropavlovsk-Kamchatkskiy submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
1999 Oct 1 0557	Volna	R-29RKU-01 UBP	3 BB 3G95	K-211	K-211 Petropavlovsk-Kamchatkskiy submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2007 Aug 7	Volna	R-29RKU-01 UBP	3 BB 3G95	K-211	K-211 Petropavlovsk-Kamchatkskiy submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.17.5 K-223 Podolsk submarine

К-233 Подольск

Rockets used: Vysota,Volna

Updated: 2025 Jul 16 0237:16

Launches: K-223

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1983 Dec 22	Vysota	R-29R 3M40L UBP	3 BB	K-223	K-223 Podolsk submarine	UNKPL	-	-	-	-	1000.0
1987	Volna	R-29R 3M40KU UBP	7 BB	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
1987	Volna	R-29R 3M40KU UBP	7 BB	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
1996 Jun 28	Volna	R-29RKU-01 UBP	3 BB 3G95	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2001 Sep 18	Volna	R-29RKU-01 UBP	3 BB 3G95	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2014 May 8	Volna	R-29RKU-02 UBP	3 BB	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2015 Oct 30 1028	Volna	R-29RKU-02 UBP	3 BB	K-223	K-223 Podolsk submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.17.6 K-424 Submarine

K-424

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-424

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Nov 16	Volna	R-29R 3M40 LKI-II-5	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1976 Dec 9	Volna	R-29R 3M40 LKI-II-6	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1976 Dec 11	Volna	R-29R 3M40 LKI-II-7	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1976 Dec 11	Volna	R-29R 3M40 LKI-II-8	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1976 Dec 11	Volna	R-29R 3M40 LKI-II-9	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1976 Dec 11	Volna	R-29R 3M40 LKI-II-10	3 BB RA95	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1977 Dec	Volna	R-29R 3M40L LKI-5	MGCh	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1977 Dec	Volna	R-29R 3M40L LKI-6	MGCh	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1977 Dec	Volna	R-29R 3M40L LKI-7	MGCh	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1977 Dec	Volna	R-29R 3M40L LKI-8	MGCh	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-9	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-10	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-11	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-12	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-13	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-14	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Feb	Volna	R-29R 3M40L LKI-15	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1978 Sep 27	Volna	R-29 3M40L LKI-16	7 BB	K-424	K-424 Submarine	UNKPL	-	-	-	-	1000.0
1980 Jun?	Volna	R-29R 3M40L Demo	3 BB	K-424	K-424 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	1000.0
1984 Sep 27	Volna	R-29R 3M40K UBP	7 BB	K-424	K-424 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1986 May 19	Volna	R-29R 3M40K UBP	7 BB	K-424	K-424 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	0.0
1988	Volna	R-29R 3M40KU-01 LKI-1	3 BB 3G95	K-424	K-424 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	1.0
1988	Volna	R-29R 3M40KU-01 LKI-2	3 BB 3G95	K-424	K-424 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	1000.0
1988	Volna	R-29R 3M40KU-01 LKI-3	3 BB 3G95	K-424	K-424 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	1000.0
1988	Volna	R-29R 3M40KU-01 LKI-4	3 BB 3G95	K-424	K-424 Submarine	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	1000.0
1989	Volna	R-29R 3M40KU-01 LKI-5	3 BB 3G95	K-424	K-424 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989	Volna	R-29R 3M40KU-01 LKI-6	3 BB 3G95	K-424	K-424 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989	Volna	R-29R 3M40KU-01 LKI-7	3 BB 3G95	K-424	K-424 Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.17.7 K-433 Svyaity Georgiy Pobedonosets

К-433 Святой Георгий Победоносец

Rockets used: Vysota,Volna

Updated: 2025 Jul 16 0237:16

Launches: K-433

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Feb 22	Vysota	R-29R 3M40L UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	UNKPL	-	-	-	-	1000.0
1984 Apr 11	Volna	R-29R 3M40L UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	UNKPL	-	-	-	-	1000.0
2004 Nov 2 0925	Volna	R-29RKU-01 UBP	3 BB 3G95	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2005 Sep 30 0822	Volna	R-29RKU-01 UBP	3 BB 3G95	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2006 Sep 10 1450	Volna	R-29RKU-01 UBP	3 BB 3G95	K-433	K-433 Svyaity Georgiy Pobedonosets	SIMLA	-	-	-	152.0E 47.0N (+/- 1.0)	1000.0
2009 Oct 6 0637	Volna	R-29RKU-01 UBP	3 BB 3G95	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2010 Oct 28 1017	Volna	R-29RKU-02 UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2012 Oct 19 0925	Volna	R-29RKU-02 UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2013 Oct 30 1039	Volna	R-29RKU-02 UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2016 Oct 12 1032	Volna	R-29RKU-02 3M40KU-02 UBP	3 BB	K-433	K-433 Svyaity Georgiy Pobedonosets	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.17.8 K-441 submarine

K-441

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-441

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Nov	Volna	R-29R 3M40 LKI-II-1	MGCh 3G47/RA94	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1976 Nov	Volna	R-29R 3M40 LKI-II-2	MGCh 3G47/RA94	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1976 Nov	Volna	R-29R 3M40 LKI-II-3	MGCh 3G47/RA94	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1976 Nov	Volna	R-29R 3M40 LKI-II-4	MGCh 3G47/RA94	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1977 Nov	Volna	R-29R 3M40L LKI-1	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1977 Nov	Volna	R-29R 3M40L LKI-2	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1977 Nov	Volna	R-29R 3M40L LKI-3	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1977 Dec	Volna	R-29R 3M40L LKI-4	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-441	K-441 submarine	UNKPL	-	-	-	-	1000.0

IV.1.17.9 K-449 submarine

K-449

IV.1.17.10 K-455 submarine

K-455

IV.1.17.11 K-487 Submarine

K-487

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-487

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Aug 18?	Volna	R-29R 3M40K UBP	7 BB	K-487	K-487 Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1985 Aug 18?	Volna	R-29R 3M40K UBP	7 BB	K-487	K-487 Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0

IV.1.17.12 K-490 Submarine

K-490

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-490

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1978?	Volna	R-29R 3M40 UBP	3 BB RA95	K-490	K-490 Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1981	Volna	R-29R 3M40L UBP	3 BB	K-490	K-490 Submarine	UNKPL	-	-	-	-	1000.0
1984	Volna	R-29R 3M40K UBP	7 BB	K-490	K-490 Submarine	UNKPL	-	-	-	-	1000.0
1993	Volna	R-29R 3M40KU-01 UBP	-	K-490	K-490 Submarine	UNKPL	-	-	-	-	1000.0

IV.1.17.13 K-496 Borisoglebsk submarine

К-496 Борисоглебск

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-496

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1999 Apr 1	Volna	R-29RKU-01 UBP	3 BB 3G95	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2000 Apr 6 0530	Volna	R-29RKU-01 UBP	3 BB 3G95	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2001 Jul 20 0031	Volna	Cosmos 1 Solar Sail	-	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	412.0
2004 Sep 8 0738	Volna	R-29RKU-01 UBP	3 BB 3G95	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2005 Jun 21 1946:09	Volna	Cosmos-1/Dem-2R	TPS Solar Sail	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	850.0
2005 Oct 1?	Volna	R-29RKU-02 LKI	3 BB	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2005 Oct 6 2130:04	Volna	IRDT-2R	-	K-496	K-496 Borisoglebsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	200.0

IV.1.17.14 K-506 Zelenograd submarine

К-506 Зеленоград

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: K-506

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1983	Volna	R-29R 3M40K UBP	7 BB	K-506	K-506 Zelenograd submarine	UNKPL	-	-	-	-	1000.0
1983	Volna	R-29R 3M40K UBP	7 BB	K-506	K-506 Zelenograd submarine	UNKPL	-	-	-	-	1000.0
1987	Volna	R-29R 3M40KU UBP	7 BB	K-506	K-506 Zelenograd submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
1987	Volna	R-29R 3M40KU UBP	7 BB	K-506	K-506 Zelenograd submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2003 Sep 2 0823	Volna	R-29RKU-01 UBP	3 BB 3G95	K-506	K-506 Zelenograd submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2008 Oct 12 0650	Volna	R-29RKU-01 UBP	3 BB 3G95	K-506	K-506 Zelenograd submarine	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.17.15 Unknown Kalmar (667 BDR, Delta III) class sub

667БДР Кальмар

Rockets used: Volna

Updated: 2025 Jul 16 0237:16

Launches: KALMAR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1991 Dec	Volna	-	-	KALMAR	Unknown Kalmar (667 BDR, Delta III) class sub	UNKPL	-	-	-	-	1000.0
1993 Dec	Volna	-	-	KALMAR	Unknown Kalmar (667 BDR, Delta III) class sub	UNKPL	-	-	-	-	1000.0
1997 Jan 15	Volna	R-29RKU-01 UBP	3 BB 3G95	KALMAR	Unknown Kalmar (667 BDR, Delta III) class sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18 Soviet Missile Submarines - Project 667BDRM

Project 667BDRM Delfin submarines (NATO designation Delta IV) carried 16 R-29RMU Sineva missiles.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Project 667BDRM

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
667БДРМ	Unknown 667BDRM (Delfin, Delta 4) class submarine	-	DELTA4	VMF	Proekt 667BDRM	-	-	- - -
К-18 Карелия	K-18 Karelia submarine	-	K-18	VMF	Proekt 667BDRM	K-18	-	- - -
К-51 Верхоту́рье	K-51 Verkhoturiye Submarine	-	K-51	VMF	Proekt 667BDRM	K-51	-	- - -
К-64 Подмоско́вье	K-64 Podmoskovye Submarine	-	K-64	VMF	Proekt 667BDRM	K-64	-	- - -
К-84 Екатеринбург	K-84 Ekaterinburg Submarine	-	K-84	VMF	Proekt 667BDRM	K-84	-	- - -
К-114 Тула	K-114 Tula Submarine	-	K-114	VMF	Proekt 667BDRM	K-114	-	- - -
К-117 Брянск	K-117 Bryansk Submarine	-	K-117	VMF	Proekt 667BDRM	K-117	-	- - -
К-407 Новомосковск	K-407 Novomoskvosk Submarine	-	K-407	VMF	Proekt 667BDRM	K-407	-	- - -

IV.1.18.1 Unknown 667BDRM (Delfin, Delta 4) class submarine

667БДРМ

Rockets used: Shtil’

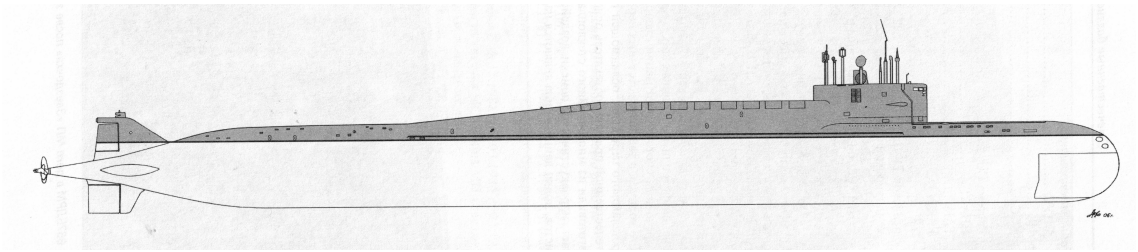
Updated: 2025 Jul 16 0237:16

Launches: DELTA4

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1998 Feb 19	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	DELTA4	Unknown 667BDRM (Delfin, Delta 4) class submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1998 Feb 19	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	DELTA4	Unknown 667BDRM (Delfin, Delta 4) class submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.2 K-18 Karelia submarine

К-18 Карелия



Credit: Apa'lkov et al 2006

Rockets used: Shtil',Sineva

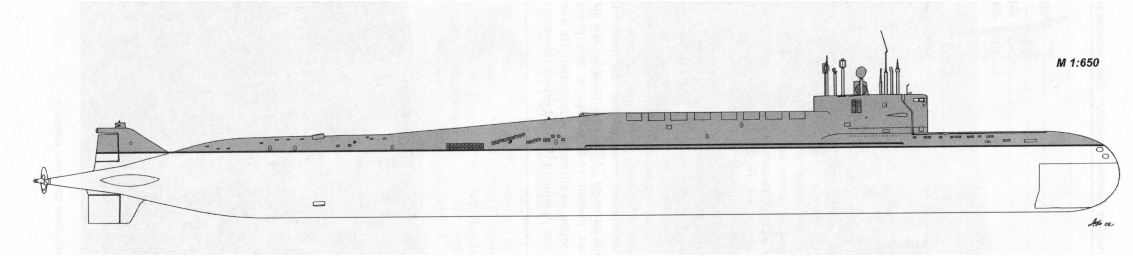
Updated: 2025 Jul 16 0237:16

Launches: K-18

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Aug 24	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989 Aug 24 1830	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2000 Mar 27 0600	Shtil'	R-29RM 3M37U	4 BB 3G95	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2000 Mar 27 0900	Shtil'	R-29RM 3M37U	4 BB 3G95	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2000 Sep 10	Sineva	R-29RM 3M37U1 LKI-1	4 BB	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2004 Feb 18 0900	Sineva	R-29RM 3M37U1 UBP	4 BB	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
2019 Oct 17?	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2020 Dec 9	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2022 Feb 19	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-18	K-18 Karelia submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.3 K-51 Verkhoturiye Submarine

К-51 Верхоту́рье



Credit: Apa'lkov et al 2006

Rockets used: Shtil',Sineva

Updated: 2025 Jul 16 0237:16

Launches: K-51

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Oct 29	Shtil'	R-29RM 3M37 LKI-3-1	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Oct 30	Shtil'	R-29RM 3M37 LKI-3-2	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Nov 16	Shtil'	R-29RM 3M37 LKI-3-3	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Nov 17	Shtil'	R-29RM 3M37 LKI-3-4	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Nov 20	Shtil'	R-29RM 3M37 LKI-3-5	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Nov 27	Shtil'	R-29RM 3M37 LKI-3-6	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 19	Shtil'	R-29RM 3M37 LKI-3-7	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 19	Shtil'	R-29RM 3M37 LKI-3-8	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 26	Shtil'	R-29RM 3M37 LKI-3-9	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 26	Shtil'	R-29RM 3M37 LKI-3-10	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 26	Shtil'	R-29RM 3M37 LKI-3-11	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Dec 26	Shtil'	R-29RM 3M37 LKI-3-12	10 BB	K-51	K-51 Verkhoturiye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1985 Jul 27	Shtil'	R-29RM 3M37 DLKI-1	10 BB	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	20.0
1985 Jul 27	Shtil'	R-29RM 3M37 DLKI-2	10 BB	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	100.0
1985 Oct 23	Shtil'	R-29RM 3M37 DLKI-3	10 BB	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	1000.0
1985 Oct 23	Shtil'	R-29RM 3M37 DLKI-4	10 BB	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	1000.0
1986	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	1000.0
1986	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	0.0
1986	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	UNKPL	-	-	-	-	1000.0
1987 Sep 17 1052	Shtil'	R-29RM 3M37U LKI-13	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	0.0
1987 Sep 17 1212	Shtil'	R-29RM 3M37U LKI-14	4 BB 3G95	K-51	K-51 Verkhoturiye Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	0.0
2001 Jun 5 1132	Shtil'	R-29RM 3M37U1 LKI-3	4 BB	K-51	K-51 Verkhoturiye Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2015 Dec 12 0805	Sineva	R-29RM 3M37U2 K.	4 BB	K-51	K-51 Verkhoturiye Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.4 K-64 Podmoskovye Submarine

К-64 Подмоско́вье

Rockets used: Shtil’

Updated: 2025 Jul 16 0237:16

Launches: K-64

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1988 Oct?	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-64	K-64 Podmoskovye Submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.18.5 K-84 Ekaterinburg Submarine

К-84 Екатеринбург

Rockets used: Shtil’,Sineva,Shtil’-1,Layner

Updated: 2025 Jul 16 0237:16

Launches: K-84

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Nov 12	Shtil'	R-29RM 3M37 DLKI-5	10 BB	K-84	K-84 Ekaterinburg Submarine	UNKPL	-	-	-	-	1000.0
1985 Nov 12	Shtil'	R-29RM 3M37 DLKI-6	10 BB	K-84	K-84 Ekaterinburg Submarine	UNKPL	-	-	-	-	1000.0
1989 Jun	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989 Jun	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989 Jun	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2003 Dec 5 2005	Sineva	R-29RM 3M37U2 LKI-1	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2003 Dec 26 1100	Sineva	R-29RM 3M37U2 LKI-2	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2004 Jun 29 0725	Sineva	R-29RM 3M37U2 LKI-3	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2004 Sep 8 0538	Shtil'	R-29RM 3M37U1 UBP	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2005 Aug 17 0706	Sineva	R-29RM 3M37U1 UBP	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2006 May 26 1850	Shtil'-1	Kompas-2	Vulkan-Kompas-2	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	524.0
2006 Sep 9 1120	Sineva	R-29RM 3M37U1	4 BB	K-84	K-84 Ekaterinburg Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
2008 Oct 12 0730	Sineva	R-29RM 3M37U2 UBP	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2009 Jul 13 0120	Sineva	R-29RM 3M37U2 UBP	4 BB	K-84	K-84 Ekaterinburg Submarine	BFJL	-	-	-	58.0E 79.5N (+/- 1.0)	1000.0
2011 Apr 26 1711	Sineva	R-29RM 3M37U2	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2011 May 20 1450	Layner	R-29RM 3M37U2.1 LKI-1	10 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2011 Jul 27 1306	Sineva	R-29RM 3M37U2 K.	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2013 Mar 28 0030	Sineva	R-29RM 3M37U2 K.	4 BB	K-84	K-84 Ekaterinburg Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.6 K-114 Tula Submarine

К-114 Тула

Rockets used: Sineva,Layner

Updated: 2025 Jul 16 0237:16

Launches: K-114

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2006 Jun 30 0625	Sineva	R-29RM 3M37U1	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2007 Dec 17	Sineva	R-29RM 3M37U1 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2007 Dec 25 1000	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2008 Oct 11 0800	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2010 Mar 4 0450	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2010 Aug 6 1515	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2010 Aug 6 1516	Sineva	R-29RM 3M37U1 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2011 Sep 29 1720	Layner	R-29RM 3M37U2.1 LKI-2	10 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2014 May 8	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2014 Nov 5 0630?	Sineva	R-29RM 3M37U2 K.	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2018 Oct 11 1027	Sineva	R-29RM 3M37U2 UBP	4 BB	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2018 Oct 11 1027?	Sineva	R-29RM 3M37U2 UBP	-	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2019 Aug 24	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-114	K-114 Tula Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
2022 Oct 26	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2023 Aug 22	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2023 Oct 25	Sineva	R-29RM 3M37U2 UBP	4 BB?	K-114	K-114 Tula Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.7 K-117 Bryansk Submarine

К-117 Брянск

Rockets used: Sineva

Updated: 2025 Jul 16 0237:16

Launches: K-117

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2009 Jul 13 2350	Sineva	R-29RM 3M37U2 UBP	4 BB	K-117	K-117 Bryansk Submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1500.0
2009 Nov 1 0730	Sineva	R-29RM 3M37U2 UBP	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2010 Oct 28 1030	Sineva	R-29RM 3M37U1	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2013 Oct 30 1110	Sineva	R-29RM 3M37U2 UBP	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2015 Oct 30 1026	Sineva	R-29RM 3M37U2 UBP	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2016 Nov 9 1107	Sineva	R-29RM 3M37U2 K.	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2017 Oct 26 1507:21	Sineva	R-29RM 3M37U2 UBP	4 BB	K-117	K-117 Bryansk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.18.8 K-407 Novomoskvosk Submarine

К-407 Новомосковск

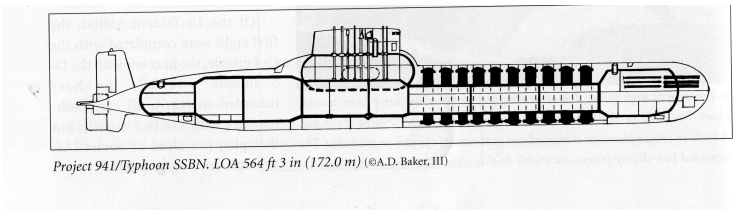
Rockets used: Shtil’,Shtil’-1,Sineva

Updated: 2025 Jul 16 0237:16

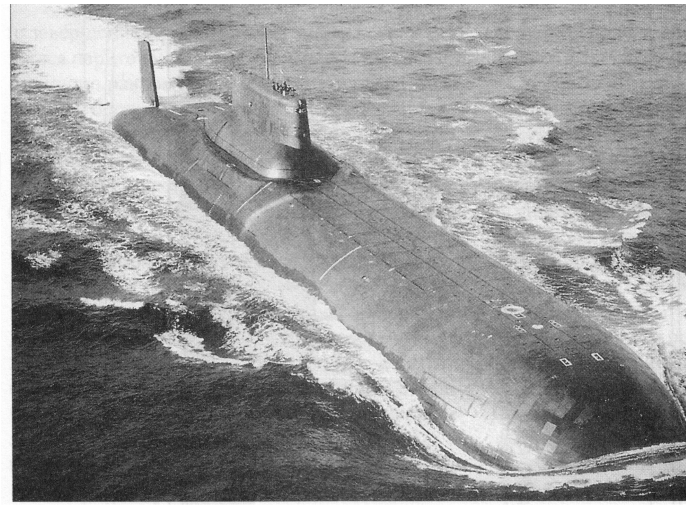
Launches: K-407

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1991 Jul 14	Shtil'	R-29RM 3M37U	4 BB 3G95	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	4 BB 3G95 Begemot-2-1	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	4 BB 3G95 Begemot-2-2	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-3	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-4	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-5	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-6	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-7	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-8	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-9	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-10	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-11	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-12	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-13	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-14	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-15	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1991 Aug 8 1810?	Shtil'	R-29RM 3M37U	Begemot-2-16	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1996 Jul 15	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1998 Jul 7 0315:00	Shtil'-1	TUBSAT-N	Tubsat-N	K-407	K-407 Novomoskvosk Submarine	BLA	LP1	-	-	34.0E 70.0N (+/- 0.5)	809.0
2000 Dec 27 0800	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2001 Feb 16 1028	Shtil'	R-29RM 3M37U1 LKI-2	4 BB	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2004 Mar 17 1208	Sineva	R-29RM 3M37U1 UBP	4 BB	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2004 Mar 17 1400	Sineva	R-29RM 3M37U1 UBP	4 BB	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2016 Oct 12 1104	Sineva	R-29RM 3M37U2 UBP	4 BB	K-407	K-407 Novomoskvosk Submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.19 Soviet Missile Submarines - Project 941



Credit: (c) A.D. Baker, III; from Polmar and Moore, Cold War Submarines



Credit: Apa'lkov et al 2006

The Акула (Akula, shark) class Project 941 submarine had the NATO reporting name Typhoon. Each Akula submarine carried 20 R-39 Rif missiles (D-19 launch system). TK-208 was later converted to test lauch the Bulava missile.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Project 941

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
ТК-12 Симбирск	TK-12 Simbirsk submarine	-	TK-12	VMF	Proekt 941	TK-12	-	1985 - 1999
ТК-13	TK-13 submarine	-	TK-13	VMF	Proekt 941	TK-13	-	1989 - 1998
ТК-17 Архангельск	TK-17 Arkhangelsk submarine	-	TK-17	VMF	Proekt 941	TK-17	-	1990 - 2004
ТК-20 Северсталь	TK-20 Severstal submarine	-	TK-20	VMF	Proekt 941	TK-20	-	1992 - 2003
ТК-202	TK-202 submarine	-	TK-202	VMF	Proekt 941	TK-202	-	1984 - -
ТК-208 Дмитрий Донской	TK-208 Dmitriy Donskoy submarine	-	TK-208	VMF	Proekt 941	TK-208	-	1982 - -

IV.1.19.1 TK-12 Simbirsk submarine

ТК-12 Симбирск

Rockets used: R-39,R-39U

Updated: 2025 Jul 16 0237:16

Launches: TK-12

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Nov 16	R-39	-	-	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1985 Nov 16	R-39	-	-	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Aug 26?	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Sep 2?	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Sep 18?	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Sep 25	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1987 Sep 8	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	0.0
1987 Sep 8	R-39	3M65 UBP	10 BB	TK-12	TK-12 Simbirsk submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1989 Feb 21	R-39U	3M65U UBP	10 BB	TK-12	TK-12 Simbirsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.19.2 TK-13 submarine

TK-13

Rockets used: R-39U,R-39

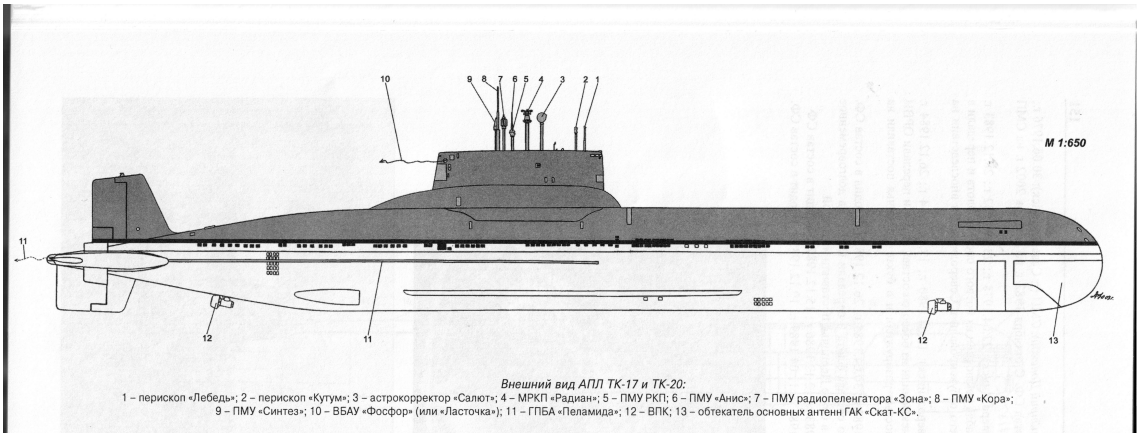
Updated: 2025 Jul 16 0237:16

Launches: TK-13

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Aug 10?	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1989 Aug 10?	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1989 Oct	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1990	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1995	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1995	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1995	R-39U	3M65U UBP	10 BB	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1997 Mar 27	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 27?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28?	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1997 Mar 28	R-39	Arms control	-	TK-13	TK-13 submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0

IV.1.19.3 TK-17 Arkhangelsk submarine

ТК-17 Архангельск



Внешний вид АПЛ ТК-17 и ТК-20:
1 – перископ «Лебедь»; 2 – перископ «Кутум»; 3 – астрокорректор «Салют»; 4 – МРКП «Радиан»; 5 – ПМУ РКП; 6 – ПМУ «Анис»; 7 – ПМУ радиопеленгатора «Зона»; 8 – ПМУ «Кора»; 9 – ПМУ «Синтез»; 10 – ВБАУ «Фосфор» (или «Ласточка»); 11 – ГПБА «Пеламида»; 12 – ВПК; 13 – обтекатель основных антенн ГАК «Скат-КС».

Credit: Apa'lkov et al 2006

Rockets used: R-39U,R-39

Updated: 2025 Jul 16 0237:16

Launches: TK-17

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1990 Q3?	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1991 Aug	R-39U	3M65U UBP	-	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1991 Aug	R-39U	3M65U UBP	-	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1991 Sep 27 1613	R-39	-	-	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	0.0
1993 Oct?	R-39	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1993 Nov 27	R-39	-	-	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1996 Oct 23	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1996 Oct 23	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	3.0
1996 Nov	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Nov	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1996 Nov	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2002 Dec	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2003 Oct 15 1003	R-39U	3M65U UBP	10 BB	TK-17	TK-17 Arkhangelsk submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.19.4 TK-20 Severstal submarine

ТК-20 Северсталь

Rockets used: R-39,R-39U,Shtil’

Updated: 2025 Jul 16 0237:16

Launches: TK-20

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1992 Oct 12	R-39	-	-	TK-20	TK-20 Severstal submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1992 Oct 12	R-39	-	-	TK-20	TK-20 Severstal submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1992 Oct 12	R-39	-	-	TK-20	TK-20 Severstal submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1995 Aug 25	R-39U	3M65U UBP	10 BB	TK-20	TK-20 Severstal submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1996 Nov 4?	R-39U	3M65U UBP	10 BB	TK-20	TK-20 Severstal submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 3	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1997 Dec 4	R-39	Arms control	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	10.0
1999 Nov 17	R-39U	3M65U UBP	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1999 Nov 17	R-39U	3M65U UBP	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1999 Dec?	R-39	-	-	TK-20	TK-20 Severstal submarine	NPOLE	-	-	-	0.0E 90.0N (+/- 9.0)	1000.0
2001 Sep 27	Shtil'	-	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2001 Sep 27	Shtil'	-	-	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2001 Oct 18 0800	R-39U	3M65U UBP	10 BB	TK-20	TK-20 Severstal submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2001 Oct 18 1000	R-39U	3M65U UBP	10 BB	TK-20	TK-20 Severstal submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2002 Oct 12 0955	Shtil'	R-29RM 3M37U	4 BB 3G95	TK-20	TK-20 Severstal submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.19.5 TK-202 submarine

TK-202

Rockets used: R-39

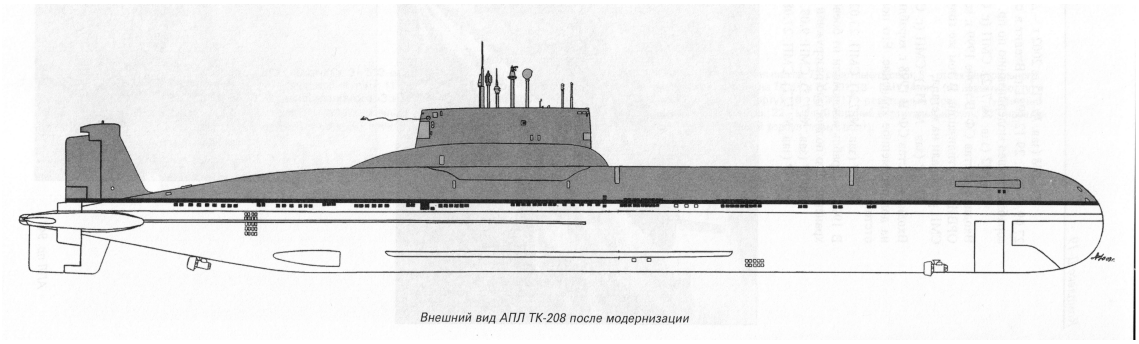
Updated: 2025 Jul 16 0237:16

Launches: TK-202

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 May 13	R-39	-	-	TK-202	TK-202 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Aug 14	R-39	-	-	TK-202	TK-202 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1987	R-39	3M65 UBP	10 BB	TK-202	TK-202 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	0.0
1987	R-39	3M65 UBP	10 BB	TK-202	TK-202 submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	0.0

IV.1.19.6 TK-208 Dmitriy Donskoy submarine

ТК-208 Дмитрий Донской



Credit: Apa'lkov et al 2006

In 2003 the TK-208 Project 941 submarine was converted to Project 941UM, carrying Bulava missiles. It was named Dmitriy Donskoy in 2002.

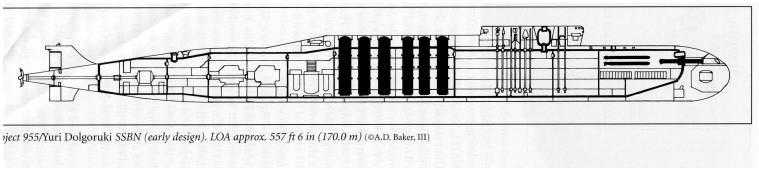
Rockets used: R-39,Bulava

Updated: 2025 Jul 16 0237:16

Launches: TK-208

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Jun 29	R-39	LKI-IV-1	3 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Jul 21	R-39	LKI-IV-2	4 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Jul 22	R-39	LKI-IV-3	Mil variant	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Aug 12	R-39	LKI-IV-4	2 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Aug 12	R-39	LKI-IV-5	3 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Sep 1	R-39	LKI-IV-6	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Sep 1	R-39	LKI-IV-7	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Sep 1	R-39	LKI-IV-8	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Oct 14	R-39	LKI-IV-9	4 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Oct 14	R-39	LKI-IV-10	1 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Oct 14	R-39	LKI-IV-11	4 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Dec 12	R-39	LKI-IV-12	2 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Dec 12	R-39	LKI-IV-13	5 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Dec 12	R-39	LKI-IV-14	2 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1982 Dec 12	R-39	LKI-IV-15	4 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1984 Jun 24	R-39	-	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1985 Sep 12	R-39	-	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Aug 14	R-39	-	-	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1986 Sep 17	R-39	3M65 UBP	10 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2003 Dec 11 0800	Bulava	3M30 Popup test II-1	-	TK-208	TK-208 Dmitriy Donskoy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1.0
2004 Sep 23	Bulava	3M30 Popup test II-2	-	TK-208	TK-208 Dmitriy Donskoy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1.0
2005 Sep 27 1322	Bulava	3M30 LKI-1	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2005 Dec 21 0519	Bulava	3M30 LKI-2	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2006 Sep 7 1550	Bulava	3M30 LKI-3	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1.0
2006 Oct 25 1305	Bulava	3M30 LKI-4	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	10.0
2006 Dec 24	Bulava	3M30 LKI-5	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	100.0
2007 Jun 28 1525:00	Bulava	3M30 LKI-6	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2007 Nov 10	Bulava	3M30 LKI-7	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1.0
2008 Sep 18 1445:00	Bulava	3M30 LKI-8	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2008 Nov 28 1405	Bulava	3M30 LKI-9	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2008 Dec 23 0250	Bulava	3M30 LKI-10	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	100.0
2009 Jul 15	Bulava	3M30 LKI-11	3 x 3G32 BB (3G30)	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	10.0
2009 Dec 9 0645	Bulava	3M30 LKI-12	3 x 3G32 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	500.0
2010 Oct 7 0715	Bulava	3M30 LKI-13	3 x 3G32 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2010 Oct 29 0110	Bulava	3M30 LKI-14	3 x 3G32 BB	TK-208	TK-208 Dmitriy Donskoy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.20 Soviet Missile Submarines - Project 955



*ject 955/*Yuri Dolgoruki *SSBN (early design). LOA approx. 557 ft 6 in (170.0 m)* (©A.D. Baker, III)

Credit: From Polmar and Moore, Cold War Submarines

The Project 955 Borey submarines were built to launch the Bulava missile.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Project 955

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
К-535 Юрий Долгорукий	K-535 Yuriy Dolgorukiy submarine	-	K-535	VMF	Proekt 955	K-535	-	- - -
К-549 Князь Владимир	K-549 Knyaz Vladimir submarine	-	K-549	VMF	Proekt 955A	K-549	-	- - -
К-550 Александр Невский	K-550 Aleksandr Nevskiy submarine	-	K-550	VMF	Proekt 955	K-550	-	- - -
К-551 Владимир Мономах	K-551 Vladimir Monomakh	-	K-551	VMF	Proekt 955	K-551	-	- - -
К-552 Князь Олег	K-552 Knyaz Oleg	-	K-552	VMF	Proekt 955A	K-552	-	- - -
К-553 Генералиссимус Суворов	K-553 Generalissimus Suvorov	-	K-553	VMF	Proekt 955A	K-553	-	- - -
К-554 Император Александр III	K-554 Imperator Aleksandr Tretii	-	K-554	VMF	Proekt 955A	K-554	-	- - -

IV.1.20.1 K-535 Yuriy Dolgorukiy submarine

К-535 Юрий Долгорукий

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-535

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2011 Jun 28 1155	Bulava	3M30 LKI-15	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2011 Aug 27 0320	Bulava	3M30 LKI-16	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2011 Oct 28 0340	Bulava	3M30 LKI-17	-	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2011 Dec 23 1550	Bulava	3M30 LKI-18	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2011 Dec 23 1550	Bulava	3M30 LKI-19	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2014 Oct 29 1727	Bulava	3M30 UBP	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2016 Sep 27 1420:00	Bulava	3M30 UBP	6BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2016 Sep 27 1420:10	Bulava	3M30 UBP	6BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	10.0
2017 Jun 26 1459	Bulava	3M30 UBP	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2018 May 22 1513:00?	Bulava	-	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	100.0
2018 May 22 1513:07?	Bulava	-	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2018 May 22 1513:14?	Bulava	-	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2018 May 22 1513:21?	Bulava	3M30 UBP	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2019 Aug 24	Bulava	3M30 UBP	6 BB	K-535	K-535 Yuriy Dolgorukiy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.20.2 K-549 Knyaz Vladimir submarine

К-549 Князь Владимир

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-549

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2019 Oct 30 1457	Bulava	3M30 UBP	6 BB	K-549	K-549 Knyaz Vladimir submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.20.3 K-550 Aleksandr Nevskiy submarine

К-550 Александр Невский

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-550

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2013 Sep 6 0520	Bulava	3M30 UBP	6 BB	K-550	K-550 Aleksandr Nevskiy submarine	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	100.0
2014 Nov 28 1609	Bulava	3M30 UBP	6 BB	K-550	K-550 Aleksandr Nevskiy submarine	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0

IV.1.20.4 K-551 Vladimir Monomakh

К-551 Владимир Мономах

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-551

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2014 Sep 10 0405	Bulava	3M30 UBP	6 BB	K-551	K-551 Vladimir Monomakh	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
2015 Nov 14 1716:00	Bulava	3M30 K	6 BB	K-551	K-551 Vladimir Monomakh	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	40.0
2015 Nov 14 1716:10	Bulava	3M30 K	6 BB	K-551	K-551 Vladimir Monomakh	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2020 Dec 12	Bulava	3M30 UBP	4 BB	K-551	K-551 Vladimir Monomakh	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2020 Dec 12	Bulava	3M30 UBP	4 BB	K-551	K-551 Vladimir Monomakh	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2020 Dec 12	Bulava	3M30 UBP	4 BB	K-551	K-551 Vladimir Monomakh	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
2020 Dec 12	Bulava	3M30 UBP	4 BB	K-551	K-551 Vladimir Monomakh	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.20.5 K-552 Knyaz Oleg

К-552 Князь Олег

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-552

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2021 Oct 21	Bulava	3M30 UBP	4 BB	K-552	K-552 Knyaz Oleg	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.20.6 K-553 Generalissimus Suvorov

К-553 Генералиссимус Суворов

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-553

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2022 Nov 3	Bulava	3M30 UBP	4 BB	K-553	K-553 Generalissimus Suvorov	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.20.7 K-554 Imperator Aleksandr Tretii

К-554 Император Александр III

Rockets used: Bulava

Updated: 2025 Jul 16 0237:16

Launches: K-554

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2023 Nov 4?	Bulava	3M30 UBP	4 BB	K-554	K-554 Imperator Aleksandr Tretii	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0

IV.1.21 Soviet Missile Submarines - Launches from unknown sub

Missile launches noted in this section were from unknown Soviet submarines.

Updated: 2025 Jul 16 0237:16

Soviet Missile Submarines - Launches from unknown sub

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
Unknown Soviet/Russian sub	Unknown Soviet/Russian sub	-	PLBR	VMF	-	-	-	- - -

IV.1.21.1 Unknown Soviet/Russian sub

Rockets used: R-21,Zyb R-27K,Vysota,Zyb,Volna,R-39,Shtil’

Updated: 2025 Jul 16 0237:16

Launches: PLBR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Q3?	R-21	R-21 4K55 LKI-III-8	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	0.0
1962 Q3?	R-21	R-21 4K55 LKI-III-9	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	0.0
1962 Q3?	R-21	R-21 4K55 LKI-III-10	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1962 Q3?	R-21	R-21 4K55 LKI-III-11	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1962 Q3?	R-21	R-21 4K55 LKI-III-12	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1962 Q3?	R-21	R-21 4K55 LKI-III-13	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-1	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	300.0
1963?	R-21	R-21 4K55 LKI-IV-2	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-3	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-4	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-5	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-6	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-7	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-8	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-9	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-10	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-11	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963?	R-21	R-21 4K55 LKI-IV-12	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1963 Feb 7	R-21	R-21 4K55 LKI-III-15	MGCh 4G55/RA3	PLBR	Unknown Soviet/Russian sub	NWSLA	-	-	-	5.0E 70.0N (+/- 5.0)	300.0
1973 Sep 11	Zyb R-27K	-	-	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	620.0
1973 Dec 4	Zyb R-27K	-	-	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	620.0
1974 Oct 2	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1974 Oct 2	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	BELA	-	-	-	38.0E 65.5N (+/- 1.0)	1000.0
1975 Apr?	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1976	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1976 Nov	Vysota	R-29 4K75D LKI-1	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	0.0
1976 Nov	Vysota	R-29 4K75D LKI-2	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1976 Nov	Vysota	R-29 4K75D LKI-3	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1976 Nov	Vysota	R-29 4K75D LKI-4	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1977 Mar 18	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1977 Mar 20	Vysota	R-29 4K75 UBP	MGCh 4G75/RA46	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1979	R-21	R-21 8K55M UBP	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	300.0
1980 Mar 15	Zyb	R-27U 3M20U	3 BB RA83?	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0
1980 Mar 15	Zyb	R-27U 3M20U	3 BB RA83?	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0
1980 Mar 15	Zyb	R-27U 3M20U	3 BB RA83?	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0
1980 Mar 15	Zyb	R-27U 3M20U	3 BB RA83?	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0
1980 Aug?	Volna	R-29R 3M40L Demo	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981	Zyb	R-27U 3M20U LKI	-	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	620.0
1981 Mar?	Volna	R-29R 3M40K LKI-1	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-2	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-3	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-4	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-5	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-6	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-7	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-8	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-9	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-10	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-11	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1981 Mar?	Volna	R-29R 3M40K LKI-12	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1983 May 25	Volna	R-29R 3M40K UBP	7 BB	PLBR	Unknown Soviet/Russian sub	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	0.0
1984 Sep 7 0710	Volna	R-29R 3M40K UBP	7 BB	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1985 Mar?	R-39	3M65U LKI-1	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-2	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-3	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0

Launches: PLBR

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Mar?	R-39	3M65U LKI-4	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-5	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-6	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-7	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-8	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-9	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Mar?	R-39	3M65U LKI-10	10 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-1	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-2	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-3	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-4	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-5	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-6	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-7	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-8	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-9	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-10	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-11	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Apr?	Vysota	R-29 4K75DU LKI-12	MGCh	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1985 Jul	Volna	R-29R 3M40K UBP	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	100.0
1986	Volna	R-29R 3M40KU LKI-1	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-2	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-3	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-4	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-5	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-6	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1986	Volna	R-29R 3M40KU LKI-7	7 BB	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37 RV Test	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-1	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-2	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-3	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-4	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-5	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-6	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-7	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-8	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-9	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-10	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-11	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Aug?	Shtil'	R-29RM 3M37U LKI-12	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	UNKPL	-	-	-	-	1000.0
1987 Dec?	Shtil'	R-29RM 3M37U LKI-15	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1988	Zyb	Final OT	-	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	620.0
1989 Oct 19	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1989 Oct 26	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1990 Apr 19	Vysota	R-29 4K75DU UBP	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1990 Jun 19	Vysota	R-29 4K75DU UBP	MGCh	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1991 Dec 18	Zyb	Sprint	-	PLBR	Unknown Soviet/Russian sub	POLA	-	-	-	170.0E 30.0N (+/- 9.0)	620.0
1996 Oct 3	Shtil'	R-29RM 3M37U UBP	4 BB 3G95	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
1997 Jul 23	Volna	R-29RKU-01 UBP	3 BB 3G95	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0
1998 Aug 21	Volna	R-29RKU-01 UBP	3 BB 3G95	PLBR	Unknown Soviet/Russian sub	BLA	-	-	-	34.0E 70.0N (+/- 0.5)	1000.0
2002 Oct 12 0912	Volna	R-29RKU-01 UBP	3 BB 3G95	PLBR	Unknown Soviet/Russian sub	OMLA	-	-	-	148.0E 57.0N (+/- 2.0)	1000.0

IV.1.22 US Navy Polaris Submarines

Updated: 2025 Jul 16 0237:16

US Navy Polaris Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS George Washington	USS George Washington		SSBN-598	USN	George Washington	SSBN-598	-	1959 - 1985
USS Patrick Henry	USS Patrick Henry		SSBN-599	USN	George Washington	SSBN-599	-	1959 - 1984
USS Theodore Roosevelt	USS Theodore Roosevelt		SSBN-600	USN	George Washington	SSBN-600	-	1959 - 1981
USS Robert E Lee	USS Robert E Lee		SSBN-601	USN	George Washington	SSBN-601	-	1959 - 1983
USS Abraham Lincoln	USS Abraham Lincoln		SSBN-602	USN	George Washington	SSBN-602	-	1960 - 1981
USS Ethan Allen	USS Ethan Allen		SSBN-608	USN	Ethan Allen	SSBN-608	-	1960 - 1983
USS Thomas A Edison	USS Thomas A Edison		SSBN-610	USN	Ethan Allen	SSBN-610	-	1961 - 1983
USS Sam Houston	USS Sam Houston		SSBN-609	USN	Ethan Allen	SSBN-609	-	1961 - 1991
USS John Marshall	USS John Marshall		SSBN-611	USN	Ethan Allen	SSBN-611	-	1961 - 1992
USS Thomas Jefferson	USS Thomas Jefferson		SSBN-618	USN	Ethan Allen	SSBN-618	-	1962 - 1985

US Navy Polaris Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Lafayette	USS Lafayette		SSBN-616	USN	Lafayette	SSBN-616	-	1962 - 1991
USS Alexander Hamilton	USS Alexander Hamilton		SSBN-617	USN	Lafayette	SSBN-617	-	1962 - 1993
USS Andrew Jackson	USS Andrew Jackson		SSBN-619	USN	Lafayette	SSBN-619	-	1962 - 1989
USS John Adams	USS John Adams		SSBN-620	USN	Lafayette	SSBN-620	-	1963 - 1989
USS James Monroe	USS James Monroe		SSBN-622	USN	Lafayette	SSBN-622	-	1962 - 1990
USS Nathan Hale	USS Nathan Hale		SSBN-623	USN	Lafayette	SSBN-623	-	1963 - 1986
USS Woodrow Wilson	USS Woodrow Wilson		SSBN-624	USN	Lafayette	SSBN-624	-	1963 - 1994
USS Henry Clay	USS Henry Clay		SSBN-625	USN	Lafayette	SSBN-625	-	1962 - 1990
USS Daniel Webster	USS Daniel Webster		SSBN-626	USN	Lafayette	SSBN-626	-	1963 - 1990
USS James Madison	USS James Madison		SSBN-627	USN	James Madison	SSBN-627	-	1963 - 1992

US Navy Polaris Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Tecumseh	USS Tecumseh		SSBN-628	USN	James Madison	SSBN-628	-	1963 - 1993
USS Daniel Boone	USS Daniel Boone		SSBN-629	USN	James Madison	SSBN-629	-	1963 - 1994
USS John C Calhoun	USS John C Calhoun		SSBN-630	USN	James Madison	SSBN-630	-	1963 - 1994
USS Ulysses S Grant	USS Ulysses S Grant		SSBN-631	USN	James Madison	SSBN-631	-	1963 - 1992
USS Von Steuben	USS Von Steuben		SSBN-632	USN	James Madison	SSBN-632	-	1963 - 1994
USS Casimir Pulaski	USS Casimir Pulaski		SSBN-633	USN	James Madison	SSBN-633	-	1964 - 1994
USS Stonewall Jacskon	USS Stonewall Jacskon		SSBN-634	USN	James Madison	SSBN-634	-	1963 - 1995
USS Sam Rayburn	USS Sam Rayburn		SSBN-635	USN	James Madison	SSBN-635	-	1963 - 1989
USS Nathanael Greene	USS Nathanael Greene		SSBN-636	USN	James Madison	SSBN-636	-	1964 - 1986
USS Benjamin Franklin	USS Benjamin Franklin		SSBN-640	USN	Benjamin Franklin	SSBN-640	-	1964 - 1993

US Navy Polaris Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Simon Bolivar	USS Simon Bolivar		SSBN-641	USN	Benjamin Franklin	SSBN-641	-	1964 - 1995
USS Kamehameha	USS Kamehameha		SSBN-642	USN	Benjamin Franklin	SSBN-642	-	1965 - 2002
USS George Bancroft	USS George Bancroft		SSBN-643	USN	Benjamin Franklin	SSBN-643	-	1964 - 1993
USS Lewis and Clark	USS Lewis and Clark		SSBN-644	USN	Benjamin Franklin	SSBN-644	-	1965 - 1992
USS James K Polk	USS James K Polk		SSBN-645	USN	Benjamin Franklin	SSBN-645	-	1965 - 1999
USS George C Marshall	USS George C Marshall		SSBN-654	USN	Benjamin Franklin	SSBN-654	-	1965 - 1992
USS Henry L Stimson	USS Henry L Stimson		SSBN-655	USN	Benjamin Franklin	SSBN-655	-	1965 - 1993
USS George Washington Carver	USS George Washington Carver		SSBN-656	USN	Benjamin Franklin	SSBN-656	-	1965 - 1993

US Navy Polaris Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Francis Scott Key	USS Francis Scott Key		SSBN-657	USN	Benjamin Franklin	SSBN-657	-	1966 - 1993
USS Mariano G Vallejo	USS Mariano G Vallejo		SSBN-658	USN	Benjamin Franklin	SSBN-658	-	1965 - 1995
USS Will Rogers	USS Will Rogers		SSBN-659	USN	Benjamin Franklin	SSBN-659	-	1966 - 1993

IV.1.22.1 USS George Washington

Credit: USN

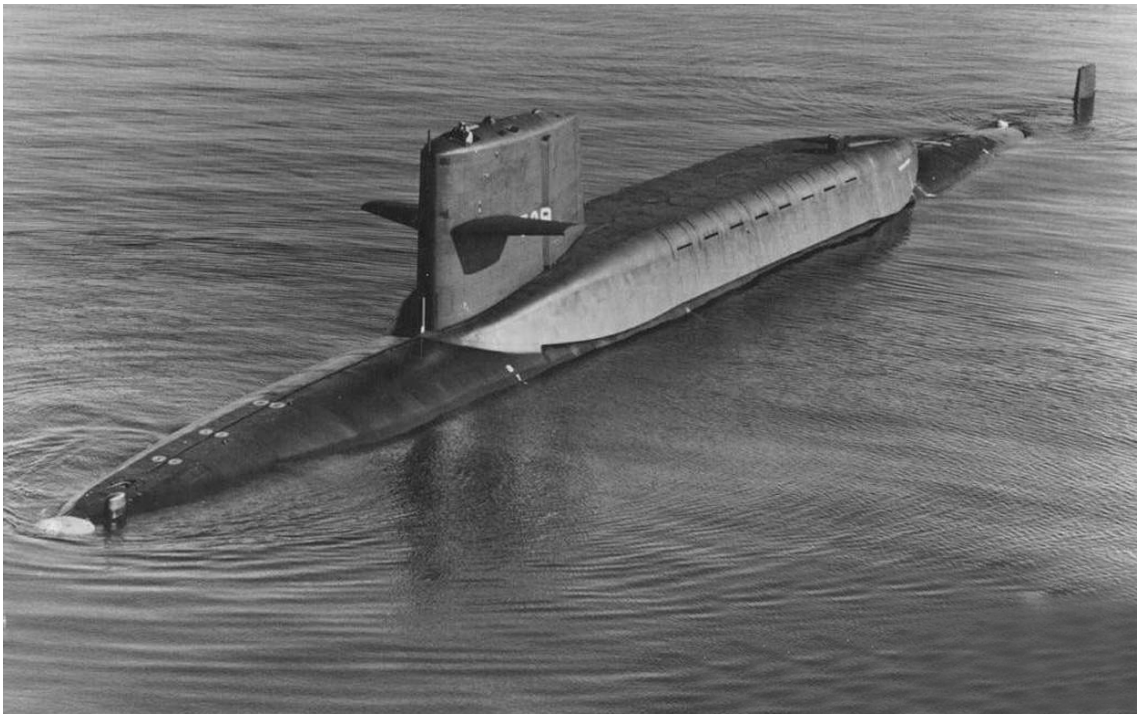
Rockets used: Polaris A1,Polaris A3

Updated: 2025 Jul 16 0237:16

Launches: SSBN-598

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Jul 20 1739	Polaris A1	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Jul 20 2032	Polaris A1	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Jul 30 2020	Polaris A1	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Aug 1 1710	Polaris A1	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1.0
1962 Jul 27	Polaris A1	ORRT	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Jul 27	Polaris A1	ORRT	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Jul 27	Polaris A1	ORRT	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1962 Jul 27	Polaris A1	ORRT	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1966 Mar 31 1600	Polaris A3	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Apr 14 1600	Polaris A3	-	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Feb 4 1615	Polaris A3	DASO	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Feb 6	Polaris A3	FOT	-	SSBN-598	USS George Washington	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Feb 6	Polaris A3	FOT	-	SSBN-598	USS George Washington	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Feb 6	Polaris A3	FOT	-	SSBN-598	USS George Washington	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Feb 6	Polaris A3	FOT	-	SSBN-598	USS George Washington	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Feb 6	Polaris A3	FOT	-	SSBN-598	USS George Washington	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Sep 20 1600	Polaris A3	DASO	-	SSBN-598	USS George Washington	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.2 USS Patrick Henry



Credit: USN

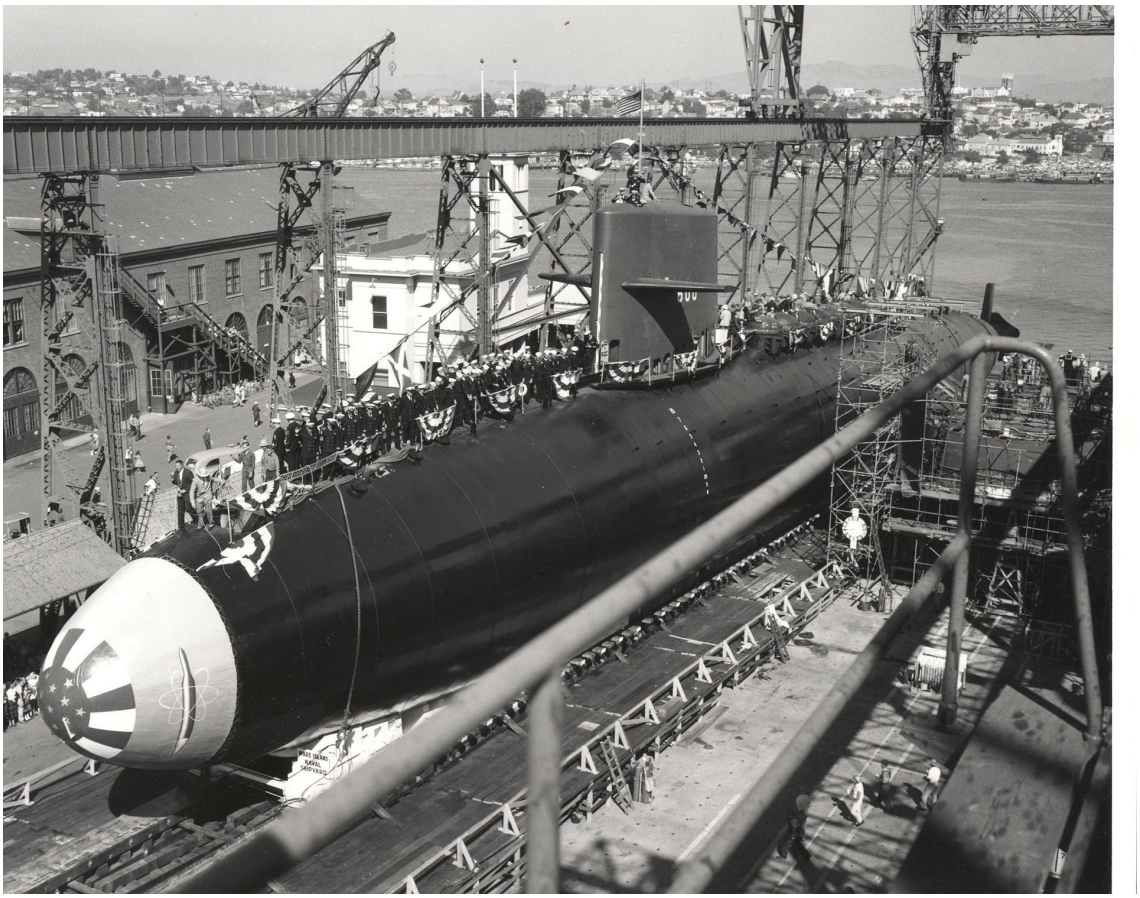
Rockets used: Polaris A1,Polaris A2,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-599

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Sep 13 1755	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1960 Sep 15 2128	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Sep 22 2205	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1960 Sep 23 0105?	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1960 Oct 15	Polaris A1	Op. Test	-	SSBN-599	USS Patrick Henry	ETR	500NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Oct 15	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	500NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Oct 16	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	500NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1960 Oct 18	Polaris A1	-	-	SSBN-599	USS Patrick Henry	ETR	500NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Feb 4	Polaris A2	ORRT	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Feb 4	Polaris A2	ORRT	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Feb 5	Polaris A2	ORRT	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Feb 5	Polaris A2	ORRT	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Oct 31 1615	Polaris A3	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Oct 31 1645	Polaris A3	-	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Apr 24 1600	Polaris A3	DASO	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Jun 9	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Jun 9	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Jun 9	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Jun 9	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Jun 9	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Jun 28 2100	Polaris A3	DASO	-	SSBN-599	USS Patrick Henry	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Apr 11	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1979 Apr 11	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1979 Apr 11	Polaris A3	FOT	-	SSBN-599	USS Patrick Henry	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.3 USS Theodore Roosevelt



Credit: wikimedia.org

Rockets used: Polaris A1,Polaris A2,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-600

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 Mar 23 1625	Polaris A1	-	-	SSBN-600	USS Theodore Roosevelt	ETR	200NM	-	-	79.0W 28.5N (+/- 2.0)	30.0
1961 Mar 23 1925	Polaris A1	-	-	SSBN-600	USS Theodore Roosevelt	ETR	200NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Mar 23 2241	Polaris A1	-	-	SSBN-600	USS Theodore Roosevelt	ETR	200NM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1961 Apr 6	Polaris A1	-	-	SSBN-600	USS Theodore Roosevelt	ETR	200NM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Mar 14	Polaris A2	ORRT	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Mar 14	Polaris A2	ORRT	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Mar 14	Polaris A2	ORRT	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Apr 27 1800:01	Polaris A3	-	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 May 31 1459:59	Polaris A3	DASO	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Aug 27 1500:00	Polaris A3	DASO	-	SSBN-600	USS Theodore Roosevelt	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Jan 24	Polaris A3	FOT	-	SSBN-600	USS Theodore Roosevelt	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1976 Jan 24	Polaris A3	FOT	-	SSBN-600	USS Theodore Roosevelt	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.4 USS Robert E Lee

Credit: USN

Rockets used: Polaris A1,Polaris A2,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-601

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Dec 22 1834	Polaris A1	-	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Jan 11 1840	Polaris A1	-	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	20.0
1961 Jan 14 1834	Polaris A1	-	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	20.0
1961 Apr 19 2204	Polaris A1	-	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 4	Polaris A2	ORRT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Oct 10 1610:03	Polaris A3	-	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 29	Polaris A3	OT	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Oct 5 1500	Polaris A3	DASO	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Oct 15	Polaris A3	FOT	-	SSBN-601	USS Robert E Lee	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Oct 15	Polaris A3	FOT	-	SSBN-601	USS Robert E Lee	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Oct 15	Polaris A3	FOT	-	SSBN-601	USS Robert E Lee	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Oct 15	Polaris A3	FOT	-	SSBN-601	USS Robert E Lee	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1974 Oct 15	Polaris A3	FOT	-	SSBN-601	USS Robert E Lee	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Nov 20 1723	Polaris A3	DASO	-	SSBN-601	USS Robert E Lee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.5 USS Abraham Lincoln

Credit: USN

Rockets used: Polaris A1,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-602

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 May 3 1700	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 May 17	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 May 17	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 May 17	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	200.0
1961 May 17	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 May 17	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Aug 12	Polaris A1	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	100.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1963 Sep 4	Polaris A1	ORRT	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1967 Sep 8 1545:02	Polaris A3	-	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Jul 26 1523:00	Polaris A3	DASO	-	SSBN-602	USS Abraham Lincoln	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Jun 18	Polaris A3	FOT	-	SSBN-602	USS Abraham Lincoln	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1975 Jun 18	Polaris A3	FOT	-	SSBN-602	USS Abraham Lincoln	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1975 Jun 18	Polaris A3	FOT	-	SSBN-602	USS Abraham Lincoln	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1975 Jun 18	Polaris A3	FOT	-	SSBN-602	USS Abraham Lincoln	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1975 Jun 18	Polaris A3	FOT	-	SSBN-602	USS Abraham Lincoln	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.6 USS Ethan Allen

Credit: USN

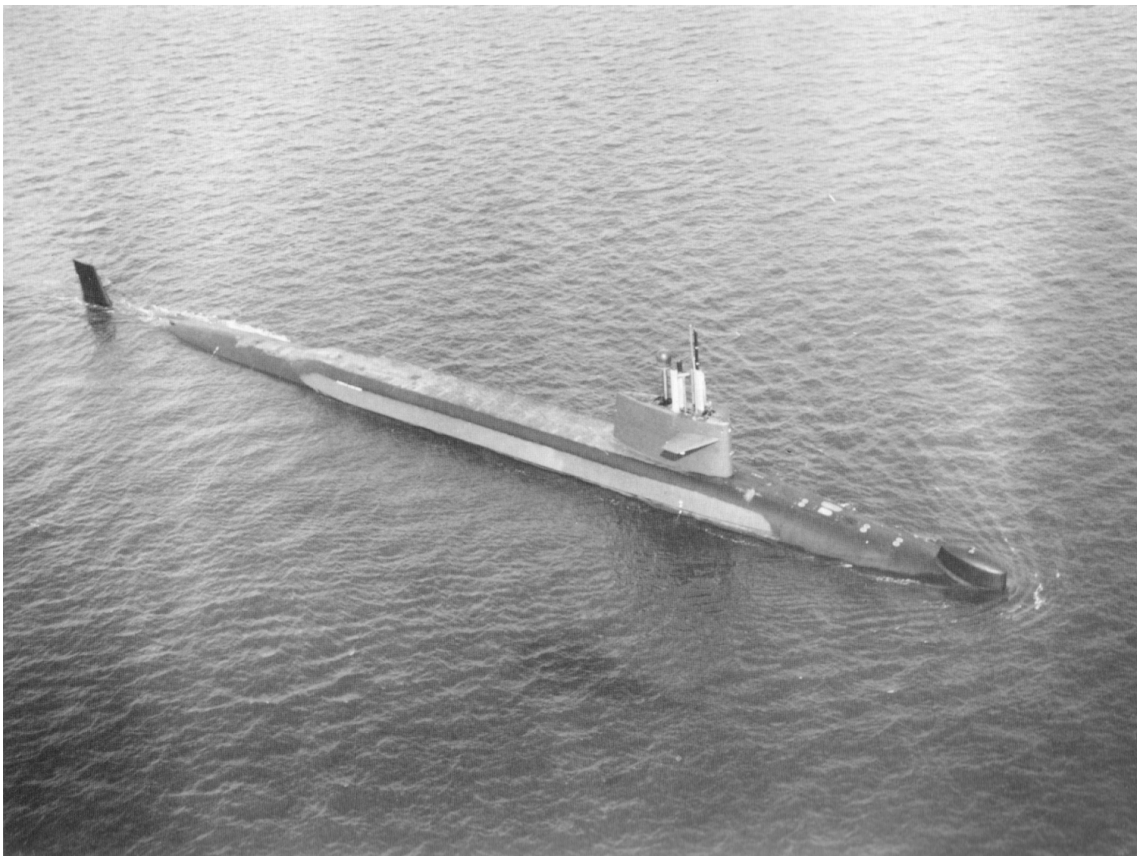
Rockets used: Polaris A1,Polaris A2,Polaris A2E,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-608

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 Oct 16 1454	Polaris A1	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Oct 23 1622	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1961 Nov 3 1401:32	Polaris A1	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Nov 3 1530	Polaris A1	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Nov 3 1700	Polaris A1	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1961 Nov 8 1610	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 May 6 2317:49	Polaris A1	FRIGATE BIRD	-	SSBN-608	USS Ethan Allen	DOMFB	-	-	-	134.0W 12.5N (+/- 0.0)	500.0
1962 Q4	Polaris A2	-	-	SSBN-608	USS Ethan Allen	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1962 Q4	Polaris A2	-	-	SSBN-608	USS Ethan Allen	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1962 Q4	Polaris A2	-	-	SSBN-608	USS Ethan Allen	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1962 Q4	Polaris A2	-	-	SSBN-608	USS Ethan Allen	JI	LP2	-	-	169.5W 16.7N (+/- 0.0)	1000.0
1963 Apr 17	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Apr 17	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Apr 17	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Apr 18	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Apr 18	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Apr 18	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jan 8 1811	Polaris A2	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jan 24 1715	Polaris A2	DEFT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Oct 21	Polaris A2E	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Oct 21	Polaris A2E	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Oct 21	Polaris A2E	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Oct 21	Polaris A2E	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Oct 21	Polaris A2E	-	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 21	Polaris A2	OT	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Aug 9 1512:59	Polaris A3	DASO	-	SSBN-608	USS Ethan Allen	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Jan 20	Polaris A3	FOT	-	SSBN-608	USS Ethan Allen	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1976 Jan 20	Polaris A3	FOT	-	SSBN-608	USS Ethan Allen	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1979 Apr 4	Polaris A3	FOT	-	SSBN-608	USS Ethan Allen	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1979 Apr 4	Polaris A3	FOT	-	SSBN-608	USS Ethan Allen	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.7 USS Thomas A Edison



Credit: USN

Rockets used: Polaris A2,Polaris A2E,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-610

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 May 23 1801:36	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 May 23 1948:00	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jun 2 1916:01	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jun 2 2234:57	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jun 24	Polaris A2	-	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jun 18 1807	Polaris A2E	DASO	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1968 Jul 11 1600	Polaris A2E	DASO	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Mar 28	Polaris A2E	FOT	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Mar 28	Polaris A2E	FOT	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Mar 28	Polaris A2E	FOT	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Mar 28	Polaris A2E	FOT	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Apr 12 1459	Polaris A3	DASO	-	SSBN-610	USS Thomas A Edison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Sep 2	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1976 Sep 2	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1977 Jun 16	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1977 Jun 16	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1977 Jun 16	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1977 Jun 16	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1977 Jun 16	Polaris A3	FOT	-	SSBN-610	USS Thomas A Edison	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.8 USS Sam Houston

Credit: USN

Rockets used: Polaris A2,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-609

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Apr 25 1650:26	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 May 9 2215:24	Polaris A2	SDAP (DASO)	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1962 May 11 1826:04	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 24	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jan 15 1743	Polaris A2	-	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1968 Jan 31 1700	Polaris A2	DEFT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 20	Polaris A2	OT	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Apr 26 1510	Polaris A3	DASO	-	SSBN-609	USS Sam Houston	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Sep 7	Polaris A3	FOT	-	SSBN-609	USS Sam Houston	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1976 Sep 7	Polaris A3	FOT	-	SSBN-609	USS Sam Houston	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.9 USS John Marshall

Credit: USN

Rockets used: Polaris A2,Polaris A2E,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-611

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Jul 12 1831:57	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jul 12 2005:13	Polaris A2	+80 min	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jul 21 2049:54	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jul 21 2219:15	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1962 Jul 21 2349:14	Polaris A2	Short range test	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 17	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 1	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 1	Polaris A2	-	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jun 11 1600:01	Polaris A2E	DASO	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jul 19 1600	Polaris A2E	DASO	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 30	Polaris A2	FOT	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Sep 18 1725	Polaris A3	DASO	-	SSBN-611	USS John Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1978 Jul 12	Polaris A3	FOT	-	SSBN-611	USS John Marshall	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Jul 12	Polaris A3	FOT	-	SSBN-611	USS John Marshall	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Jul 12	Polaris A3	FOT	-	SSBN-611	USS John Marshall	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.10 USS Thomas Jefferson

Credit: USN

Rockets used: Polaris A2,Polaris A2E,Polaris A3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-618

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Feb 21 1756:07	Polaris A2	-	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Mar 7 1748:15	Polaris A2	-	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1.0
1963 Mar 7 1848:15	Polaris A2	-	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 12	Polaris A2	-	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 12	Polaris A2	-	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Jul 30 1607	Polaris A2E	DASO	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Aug 14 0000	Polaris A2E	DASO	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Aug 31	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Aug 31	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Aug 31	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Aug 23	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Aug 23	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Aug 23	Polaris A2	FOT	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Mar 29 1600	Polaris A3	DASO	-	SSBN-618	USS Thomas Jefferson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1978 Jul 7	Polaris A3	FOT	-	SSBN-618	USS Thomas Jefferson	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1978 Jul 7	Polaris A3	FOT	-	SSBN-618	USS Thomas Jefferson	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.22.11 USS Lafayette

Credit: USN

Rockets used: Polaris A2,Polaris A2E,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-616

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Jun 13 1630:02	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	40.0
1963 Jun 13 1705:34	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jul 2 1600:04	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Jul 2 1630:03	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 28	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 28	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 28	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 28	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 17	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 17	Polaris A2	-	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Feb 20 1741:02	Polaris A2E	DASO	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Apr 4 1700	Polaris A2E	DASO	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 1	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 1	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 1	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 1	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 1	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 2	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Sep 2	Polaris A2	FOT	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Dec 16 1600:02	Poseidon C3	DASO	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jun 1 2146	Poseidon C3	OT-31	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jun 1 2147	Poseidon C3	OT-31	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Sep 2 1600	Poseidon C3	DASO	-	SSBN-616	USS Lafayette	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.12 USS Alexander Hamilton

Credit: USN

Rockets used: Polaris A2,Polaris A2E,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-617

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Aug 9 1714:03	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 9 1819:43	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 23 1701:06	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Aug 23 1741:04	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 19	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 19	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 19	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 19	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 14	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 14	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 14	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 14	Polaris A2	-	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Sep 10 1600	Polaris A2E	DASO?	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Sep 26 1800:03	Polaris A2E	DASO	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 May 28 2300:02	Poseidon C3	DASO-34	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 May 29 0002:02	Poseidon C3	DASO-35	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Nov 19 1707	Poseidon C3	FOT-24?	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Nov 19 1707	Poseidon C3	FOT-24?	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Nov 19 1908	Poseidon C3	FOT-24?	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Nov 19 1909	Poseidon C3	FOT-24?	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1989 Sep 29 1804:02	Poseidon C3	DASO	-	SSBN-617	USS Alexander Hamilton	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.13 USS Andrew Jackson

Credit: USN

Rockets used: Polaris A2,Polaris A3,Polaris A2E,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-619

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Oct 1 1939:05	Polaris A2	PY-1? DASO	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 16 1630:02	Polaris A2	PY-1? DASO	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Oct 26 1614:04	Polaris A3	-	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Nov 11 1848:05	Polaris A3	-	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1963 Nov 16 1654:42	Polaris A2	-	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Sep 28	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Sep 28	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 25	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 25	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 25	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 25	Polaris A2	FOT	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Sep 18 1600	Polaris A2E	-	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Nov 15 1700	Polaris A2E	-	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Oct 10 2300:02	Poseidon C3	DASO	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 11 2159	Poseidon C3	OT-32	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 11 2159	Poseidon C3	OT-32	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 11 2200	Poseidon C3	OT-32	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 11 2200	Poseidon C3	OT-32	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 May 25	Poseidon C3	FOT-46?	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 May 25	Poseidon C3	FOT-46?	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 May 25	Poseidon C3	FOT-46?	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 May 25 2313	Poseidon C3	FOT-46?	-	SSBN-619	USS Andrew Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.14 USS John Adams

Credit: USN

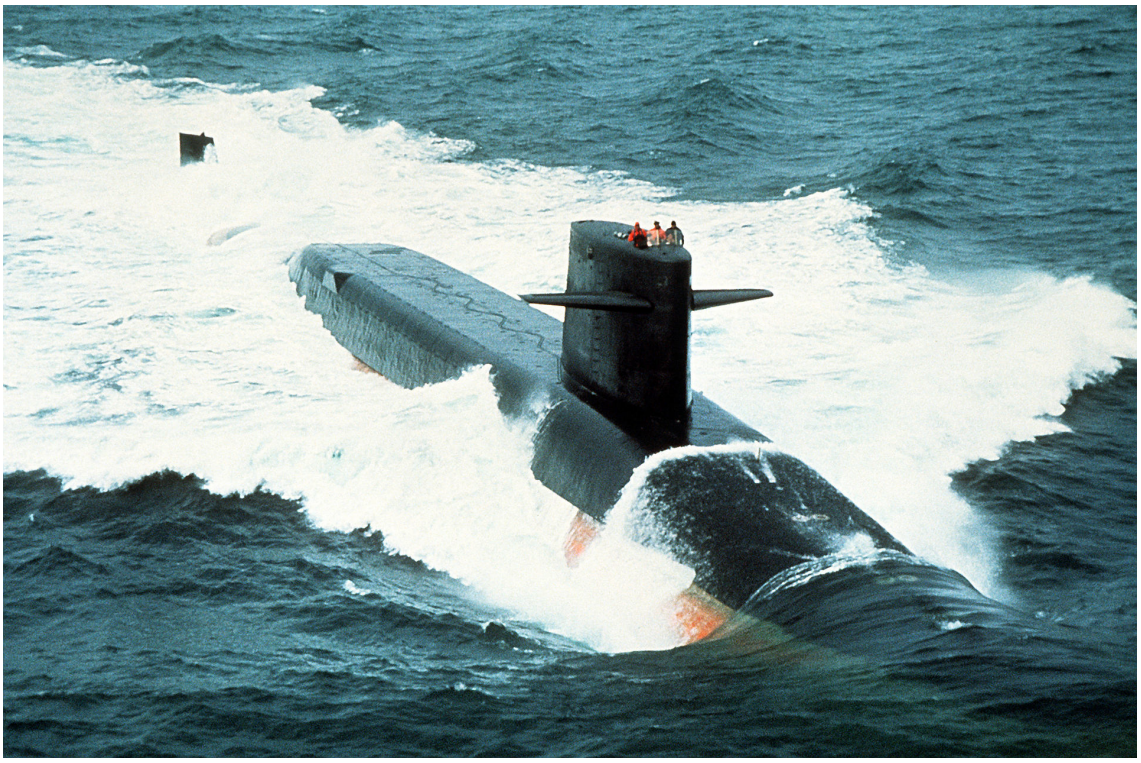
Rockets used: Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-620

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Jun 23 1816:03	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jun 23 1953:03	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jun 23 2131:02	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jul 8 1915:03	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jul 8 2015:03	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jul 8 2116:02	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Jun 15	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Jun 15	Polaris A2	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jul 8	Polaris A2	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jul 8	Polaris A2	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Dec 2 1630	Polaris A3	-	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 May 25 2200	Poseidon C3	DASO	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Jun 26	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Jun 26 0257	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Jun 4	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Jun 4	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Jun 4	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Jun 4 2134	Poseidon C3	FOT	-	SSBN-620	USS John Adams	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.15 USS James Monroe



Credit: USN

Rockets used: Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-622

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Feb 3 1641:07	Polaris A2	PY-1? DASO	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Feb 17 1703:04	Polaris A2	PY-1? DASO	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 30 1630	Polaris A3	-	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Nov 24 1637	Polaris A3	-	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1977 Aug 3 1600:02	Poseidon C3	DASO	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jul 28	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jul 28	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jul 28	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jul 28 0522	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Sep 12	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Sep 12	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Sep 12	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Sep 12 0528	Poseidon C3	FOT	-	SSBN-622	USS James Monroe	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.16 USS Nathan Hale

Credit: USN

Rockets used: Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-623

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Jan 13 1630:04	Polaris A2	PY-1? DASO	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	100.0
1964 Jan 13 2150:01	Polaris A2	PY-1? DASO	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jan 13 2339:00	Polaris A2	PY-1? DASO	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	2.0
1964 Jan 26 1647:03	Polaris A2	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	5.0
1964 Jan 26 1959:03	Polaris A2	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 May 31	Polaris A2	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 May 31	Polaris A2	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jun 23	Polaris A2	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jun 23	Polaris A2	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jun 23	Polaris A2	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Jun 23	Polaris A2	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Aug 19 1530	Polaris A3	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Sep 30 1430	Polaris A3	-	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Sep 24 2300:02	Poseidon C3	DASO	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jan 28 2236	Poseidon C3	OT-26	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jan 28 2237	Poseidon C3	OT-26	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jan 28 2237	Poseidon C3	OT-26	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Jan 28 2237	Poseidon C3	OT-26	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 12 2311	Poseidon C3	OT-34	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 12 2312	Poseidon C3	OT-34	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 12 2312	Poseidon C3	OT-34	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 12 2313	Poseidon C3	OT-34	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Oct 13	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Oct 13 0641	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Mar 6	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Mar 6	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Mar 6	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Mar 6 0342	Poseidon C3	FOT	-	SSBN-623	USS Nathan Hale	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.17 USS Woodrow Wilson

Credit: USN

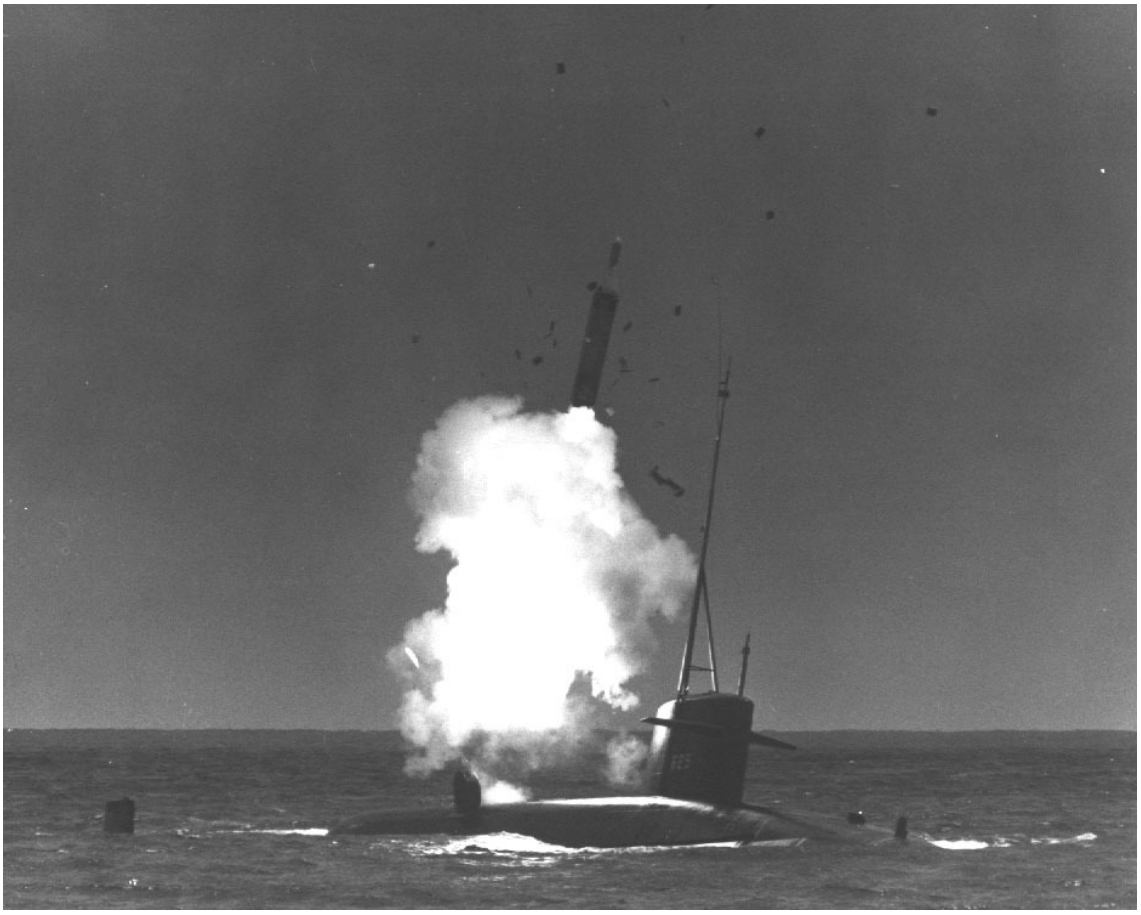
Rockets used: Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-624

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Mar 2 1630:03	Polaris A2	PY-1? DASO	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Mar 16 1630:14	Polaris A2	PY-1? DASO	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 6	Polaris A2	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 6	Polaris A2	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 6	Polaris A2	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 6	Polaris A2	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Sep 20	Polaris A2	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Sep 20	Polaris A2	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 6	Polaris A2	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 6	Polaris A2	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 6	Polaris A2	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 15 1530	Polaris A3	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Oct 15 1910	Polaris A3	-	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1976 Feb 14 2200	Poseidon C3	DASO	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Mar 24 2047	Poseidon C3	OT-28	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Mar 24 2047	Poseidon C3	OT-28	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jan 10	Poseidon C3	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jan 10 0919	Poseidon C3	FOT	-	SSBN-624	USS Woodrow Wilson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.18 USS Henry Clay



Credit: USN

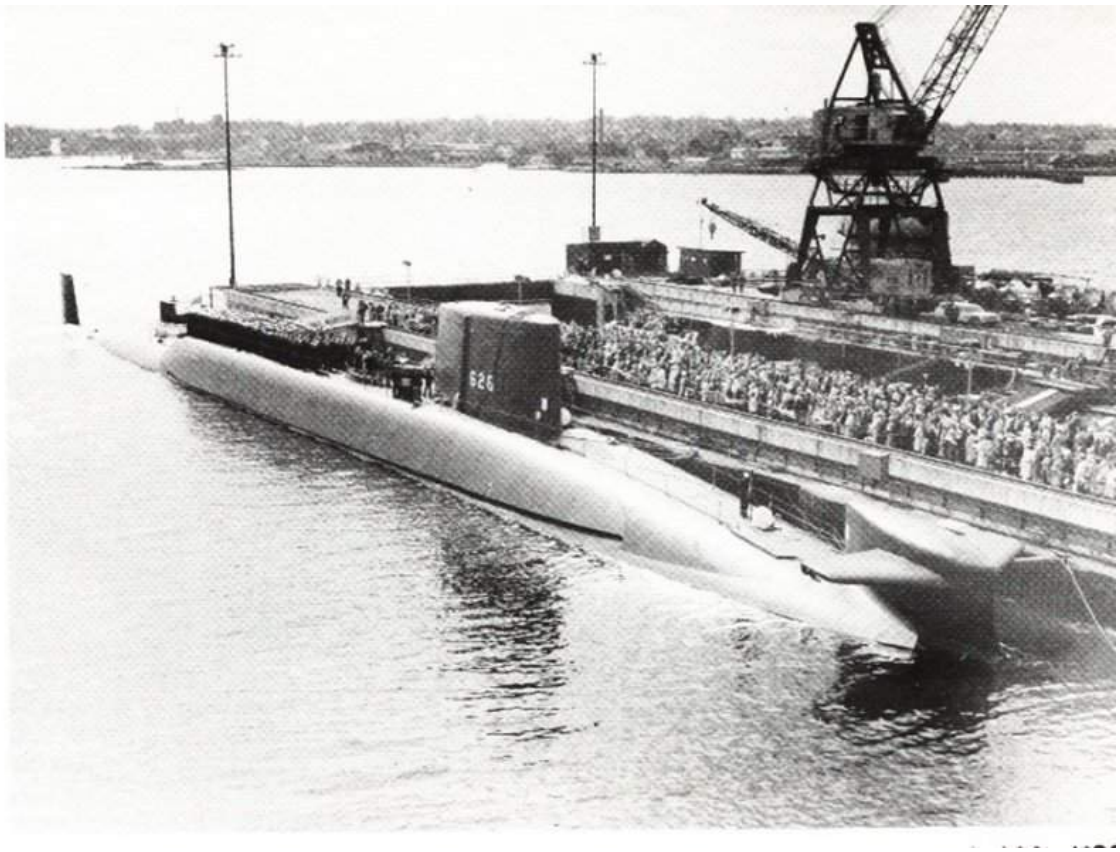
Rockets used: Polaris A2,Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-625

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Mar 16	Polaris A2	PY-1? DASO	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Mar 20	Polaris A2	PY-1? DASO	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Apr 6 1630:03	Polaris A2	-	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Apr 20 1630:03	Polaris A2	-	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Apr 20 1700:09	Polaris A2	Surface Launch Test	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Feb 25	Polaris A2	FOT	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Feb 25	Polaris A2	FOT	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 10 1630	Polaris A3	-	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1970 May 22 1800	Polaris A3	DASO	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1977 Sep 6 2100:01	Poseidon C3	DASO	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Aug 20 2119	Poseidon C3	FOT-42?	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Aug 20 2119	Poseidon C3	FOT-42?	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Aug 20 2127	Poseidon C3	FOT-42?	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Aug 20 2132	Poseidon C3	FOT-42?	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Jun 29	Poseidon C3	FOT	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Jun 29 2003	Poseidon C3	FOT	-	SSBN-625	USS Henry Clay	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.19 USS Daniel Webster



Credit: wikipedia.org

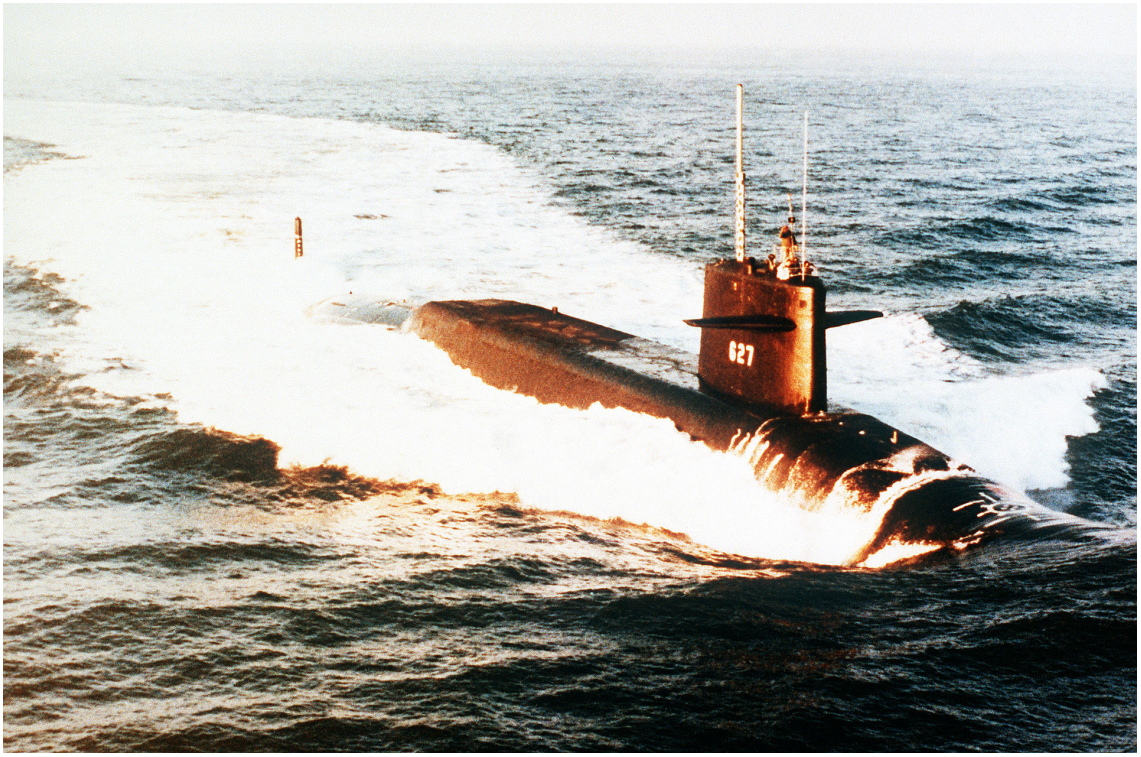
Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-626

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 May 25 1829:05	Polaris A3	-	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 May 25 1915:06	Polaris A3	-	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jun 8 1634:07	Polaris A3	-	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jun 8 1709:07	Polaris A3	DASO	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Aug 29 1515	Polaris A3	DASO/Antelope	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Aug 29 1600	Polaris A3	DASO/Antelope	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Feb 6 1630	Polaris A3	-	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1978 Mar 29 2300:01	Poseidon C3	DASO	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Sep 2	Poseidon C3	FOT	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Sep 2 0503	Poseidon C3	FOT	-	SSBN-626	USS Daniel Webster	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.20 USS James Madison



Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-627

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Sep 28 1630:03	Polaris A3	-	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Oct 13 1650:04	Polaris A3	-	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Nov 5	Polaris A3	OT	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Nov 5	Polaris A3	OT	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Nov 5	Polaris A3	OT	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Nov 5	Polaris A3	OT	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Aug 3 1500	Poseidon C3	PEM-1	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Aug 17 1616	Poseidon C3	PEM-2	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Oct 23 2200	Poseidon C3	USN Mk 3 RV x 10	DASO-1	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Jun 23	Poseidon C3	FOT-11?	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Jun 23	Poseidon C3	FOT-11?	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Jun 5 2000	Trident C-4	DASO-13	-	SSBN-627	USS James Madison	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.21 USS Tecumseh

Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-628

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Aug 6 1630	Polaris A3	-	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Aug 20 1630:02	Polaris A3	-	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 May 1 0003	Poseidon C3	DASO-7	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Jul 17 2330	Poseidon C3	DASO-12	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Jan 23	Poseidon C3	FOT-5	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Jan 23	Poseidon C3	FOT-5	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Jan 23	Poseidon C3	FOT-5	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Jan 23	Poseidon C3	FOT-5	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Feb 5 0303	Poseidon C3	FOT-27	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Oct 23 2151	Poseidon C3	DASO	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Feb 28	Poseidon C3	FOT-45?	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Feb 28	Poseidon C3	FOT-45?	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Jan 31 1930:03	Poseidon C3	DASO	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1988 Apr 1	Poseidon C3	FOT	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1988 Apr 1	Poseidon C3	FOT	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1988 Apr 1	Poseidon C3	FOT	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1988 Apr 1 2019	Poseidon C3	FOT	-	SSBN-628	USS Tecumseh	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.22 USS Daniel Boone

Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-629

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Jul 16 1654:04	Polaris A3	-	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jul 16 1724:07	Polaris A3	-	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1964 Jul 30 1630:03	Polaris A3	-	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Jul 30 1700:03	Polaris A3	-	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 8 1600	Poseidon C3	PEM-3	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Sep 21 1500	Poseidon C3	PEM-4	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Oct 6 1515	Poseidon C3	PEM-5	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1970 Nov 27 2217	Poseidon C3	DASO-2	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Dec 11	Poseidon C3	FOT-4	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Dec 11	Poseidon C3	FOT-4	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Dec 11	Poseidon C3	FOT-4	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Dec 11	Poseidon C3	FOT-4	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 15 2100	Poseidon C3	DASO	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 22 0310	Trident C-4	DASO-5?	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Aug 24 0352	Trident C-4	DASO/JANUS	-	SSBN-629	USS Daniel Boone	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Mar 24	Trident C-4	CET	-	SSBN-629	USS Daniel Boone	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Mar 24	Trident C-4	CET	-	SSBN-629	USS Daniel Boone	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Mar 24	Trident C-4	CET	-	SSBN-629	USS Daniel Boone	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Mar 24 0416	Trident C-4	CET .	-	SSBN-629	USS Daniel Boone	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.23 USS John C Calhoun

Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-630

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Feb 15 1630:03	Polaris A3	-	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Mar 1 1718:06	Polaris A3	-	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 10	Polaris A3	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 10	Polaris A3	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 10	Polaris A3	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 10	Polaris A3	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Apr 19 2345	Poseidon C3	DASO-6	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Jun 7 1653	Poseidon C3	DASO-10	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Nov 2	Poseidon C3	FOT-3	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Nov 2	Poseidon C3	FOT-3	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Nov 2	Poseidon C3	FOT-3	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Nov 2	Poseidon C3	FOT-3	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Mar 23 2225	Poseidon C3	DASO	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Oct 28 2125	Trident C-4	DASO-6?	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 13 0226	Trident C-4	OT-6	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 13 0246	Trident C-4	OT-6	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 13 0332	Trident C-4	OT-6	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 13 0332	Trident C-4	OT-6	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1984 Aug 24	Trident C-4	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1984 Aug 24 2143	Trident C-4	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Aug 31	Trident C-4	DASO	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Aug 29	Trident C-4	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Aug 29	Trident C-4	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Aug 29	Trident C-4	FOT	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Aug 29 2343	Trident C-4	FOT 140?	-	SSBN-630	USS John C Calhoun	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.24 USS Ulysses S Grant

Credit: USN

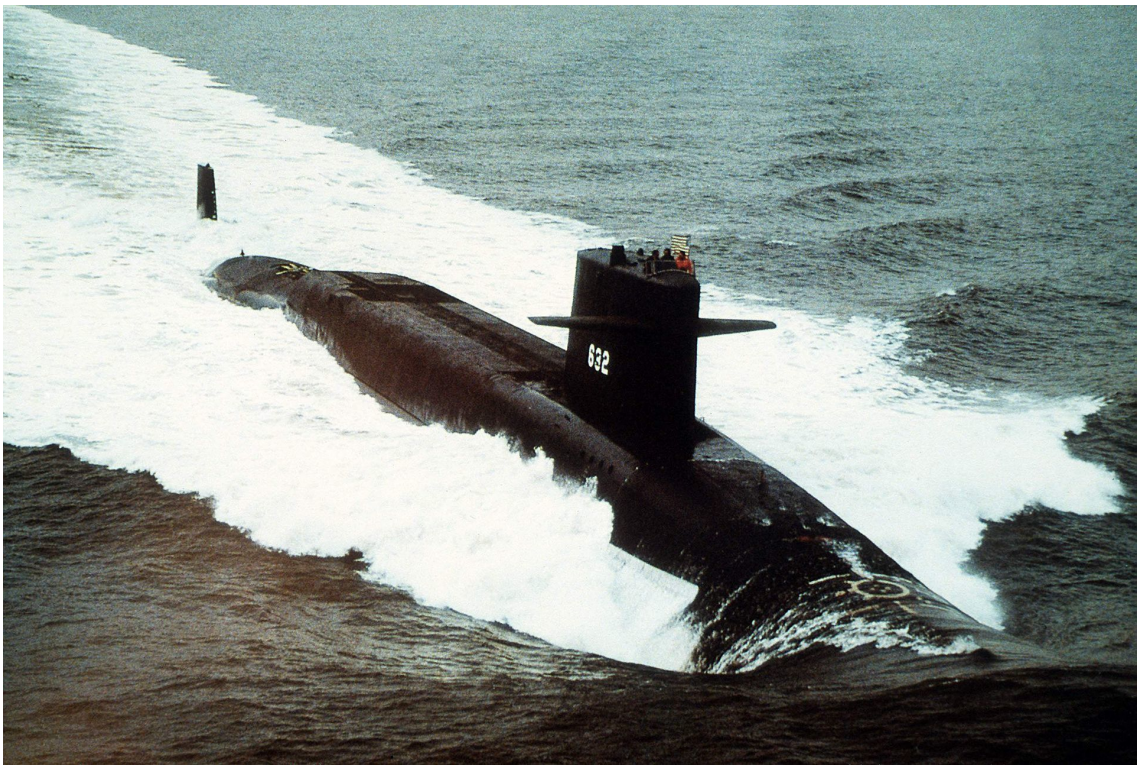
Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-631

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Sep 5 1630:03	Polaris A3	-	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Sep 21 1630:03	Polaris A3	-	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 29 2305	Poseidon C3	DASO-5	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 May 11 2230	Poseidon C3	DASO-8	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 May 11 2347	Poseidon C3	DASO-9	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Aug 18	Poseidon C3	FOT-1	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Aug 18	Poseidon C3	FOT-1	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Aug 18	Poseidon C3	FOT-1	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Aug 18	Poseidon C3	FOT-1	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 May 26 2215:03	Poseidon C3	DASO	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Jul 31 1800:03	Poseidon C3	DASO	-	SSBN-631	USS Ulysses S Grant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.25 USS Von Steuben



Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-632

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Dec 22 1630:04	Polaris A3	-	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Jan 11 1713:03	Polaris A3	-	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Feb 4 2245	Poseidon C3	DASO-3	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Mar 15 2300	Poseidon C3	DASO-4	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Sep 28	Poseidon C3	FOT-2	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Sep 28	Poseidon C3	FOT-2	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Sep 28	Poseidon C3	FOT-2	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Sep 28	Poseidon C3	FOT-2	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Jun 22 2016	Poseidon C3	FOT-20?	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Jun 22 2017	Poseidon C3	FOT-20?	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Nov 14 1700	Trident C-4	DASO	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Nov 7	Trident C-4	FOT	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Nov 7 1802	Trident C-4	FOT	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Sep 17	Trident C-4	FOT	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Sep 17 1904	Trident C-4	FOT	-	SSBN-632	USS Von Steuben	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.26 USS Casimir Pulaski

Credit: USN

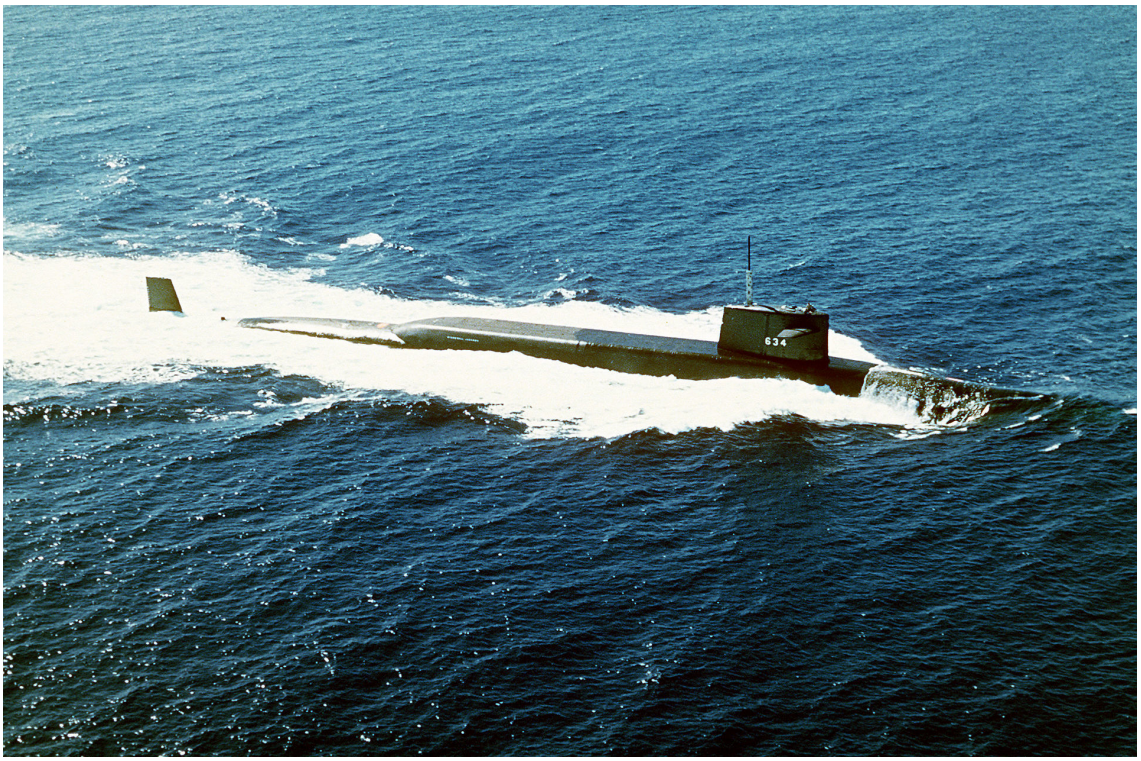
Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-633

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Oct 31 1804:03	Polaris A3	-	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Nov 13 1657:03	Polaris A3	-	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Jul 2 1630	Poseidon C3	DASO-11	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Aug 16 1632	Poseidon C3	DASO-13	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Mar 1	Poseidon C3	FOT-6	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Mar 1	Poseidon C3	FOT-6	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Mar 1	Poseidon C3	FOT-6	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1973 Mar 1	Poseidon C3	FOT-6	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Apr 24	Poseidon C3	FOT-10?	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Apr 19 1700	Trident C-4	DASO	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	20.0
1985 Jun 18	Trident C-4	FOT	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 Jun 18	Trident C-4	FOT	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 Jun 18	Trident C-4	FOT	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 Jun 18 0312	Trident C-4	FOT	-	SSBN-633	USS Casimir Pulaski	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.27 USS Stonewall Jacskon



Credit: USN

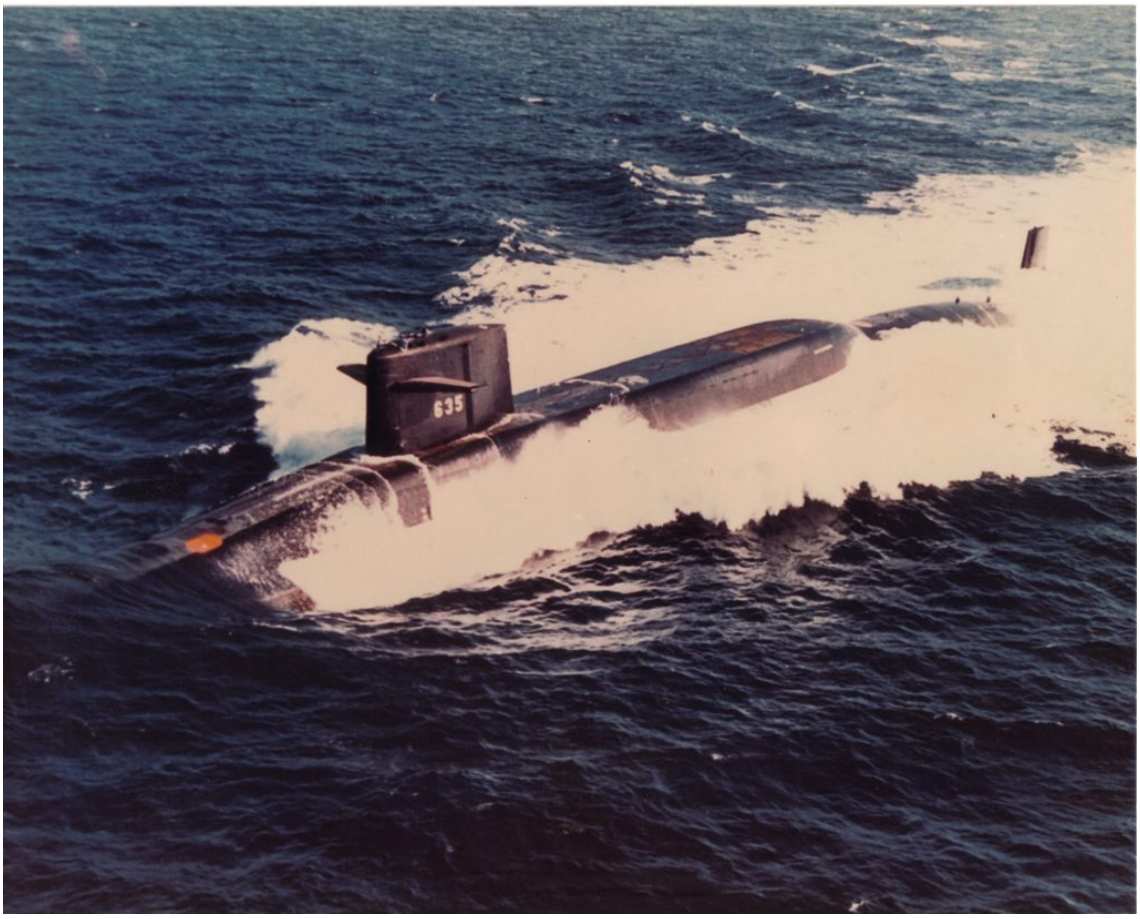
Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-634

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1964 Dec 2 1630:04	Polaris A3	-	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1964 Dec 16 1634:03	Polaris A3	-	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Dec 6 1747	Poseidon C3	DASO-17	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1972 Jan 21 2145	Poseidon C3	DASO-19	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Aug 22 1708:40	Poseidon C3	FOT-13?	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Aug 22 1709:08	Poseidon C3	FOT-13?	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Aug 22 1726:10	Poseidon C3	FOT-13?	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 14 2200	Poseidon C3	DASO-48	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Jan 26 1250	Trident C-4	DASO-10	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Feb 27 1527	Trident C-4	DASO	-	SSBN-634	USS Stonewall Jacskon	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.28 USS Sam Rayburn



Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-635

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Jan 23 1630:08	Polaris A3	-	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Feb 8 1725:05	Polaris A3	-	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Oct 14 2113	Poseidon C3	DASO-14	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Nov 24 2115	Poseidon C3	DASO-16	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Nov 8	Poseidon C3	FOT-15?	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Nov 8	Poseidon C3	FOT-15?	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Feb 13 2200:02	Poseidon C3	DASO	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Mar 21	Poseidon C3	FOT	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Mar 21 0254	Poseidon C3	FOT	-	SSBN-635	USS Sam Rayburn	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.29 USS Nathanael Greene

Credit: USN

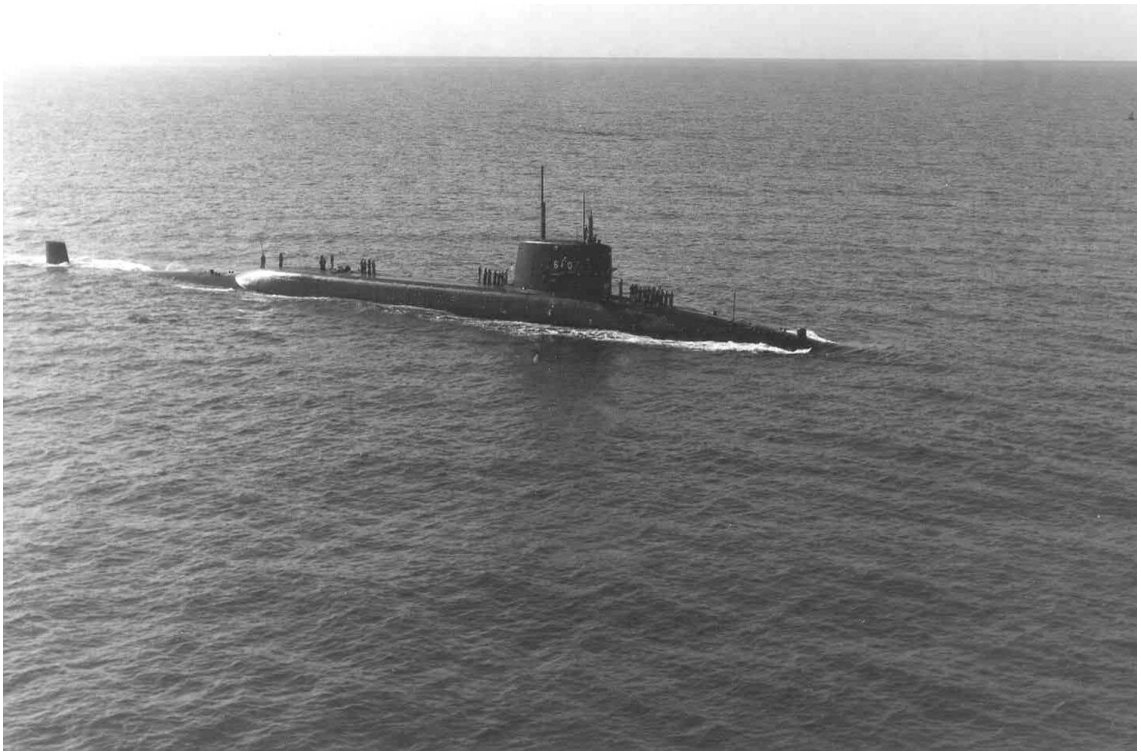
Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-636

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Mar 15 1822:02	Polaris A3	Surface launch	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Mar 15 1909:01	Polaris A3	-	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Mar 29 1830:07	Polaris A3	-	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Nov 4 1600	Poseidon C3	DASO-15 Surface	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1971 Dec 17 2145	Poseidon C3	DASO-18	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Aug 20 2248	Poseidon C3	FOT-22?	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Aug 20 2250	Poseidon C3	FOT-22?	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Aug 22 0100	Poseidon C3	DASO	-	SSBN-636	USS Nathanael Greene	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.30 USS Benjamin Franklin



Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-640

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Dec 6 1925:41	Polaris A3	OT/GT7 target	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1965 Dec 20 1633:03	Polaris A3	-	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Jun 16 2315	Poseidon C3	DASO-20	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Jun 26 0858	Poseidon C3	FOT-21?	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Jun 26 0906	Poseidon C3	FOT-21?	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Nov 15 1750	Trident C-4	Adv Evader 211	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	20.0
1983 Feb 7	Trident C-4	FOT	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Feb 7 1342	Trident C-4	FOT	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1989 Jan 23 1040:05	Trident C-4	DASO-31	-	SSBN-640	USS Benjamin Franklin	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.31 USS Simon Bolivar

Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-641

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Jan 17 1642:04	Polaris A3	-	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Jan 31 1630:03	Polaris A3	-	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Apr 11	Polaris A3	OT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Jul 5 2315	Poseidon C3	DASO-21	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Aug 28 0942	Poseidon C3	FOT-23?	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Aug 28 0943	Poseidon C3	FOT-23?	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Apr 1 0910	Trident C-4	DASO-7?	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 28 0003	Trident C-4	OT-7	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 28 0004	Trident C-4	OT-7	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 28 0004	Trident C-4	OT-7	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1981 Aug 28 0004	Trident C-4	OT-7	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Aug 6	Trident C-4	FOT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Aug 6 0038	Trident C-4	FOT	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Feb 6 1955	Trident C-4	DASO	-	SSBN-641	USS Simon Bolivar	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	2.0

IV.1.22.32 USS Kamehameha

Credit: USN

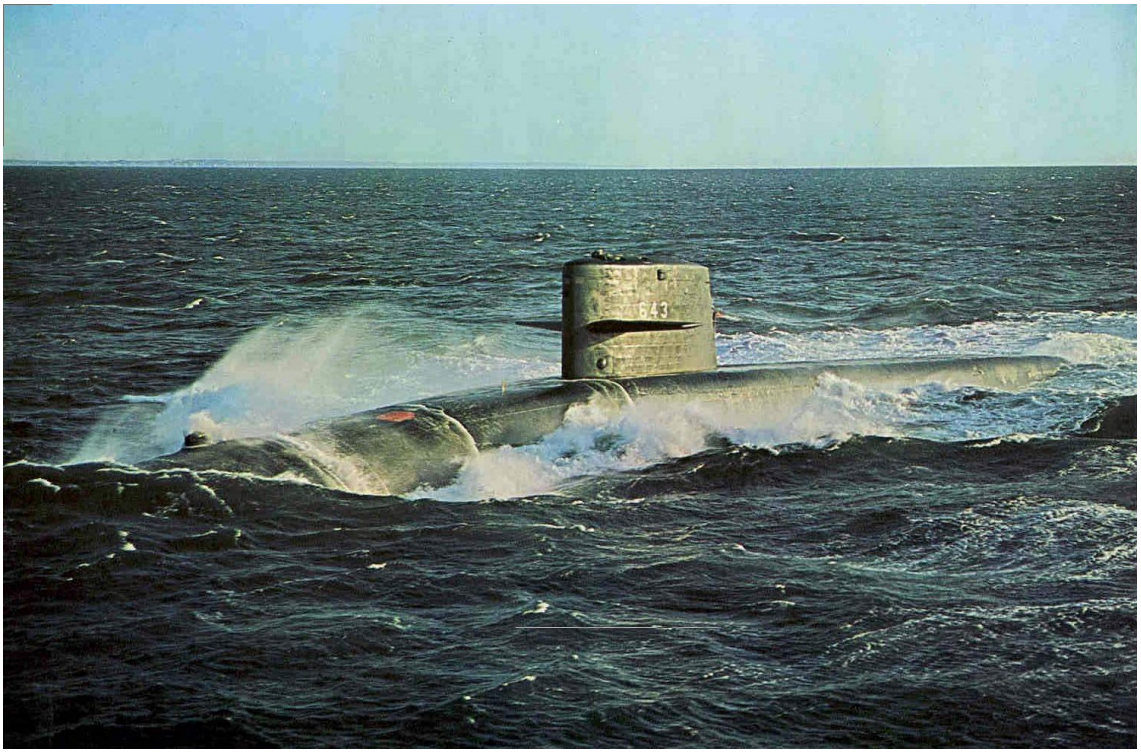
Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-642

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Feb 24 1704:04	Polaris A3	-	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 10 1600:02	Polaris A3	-	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Dec 15 2125	Poseidon C3	DASO-23	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Nov 13	Poseidon C3	FOT-16?	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Mar 5 1847	Poseidon C3	OT-37	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Mar 5 1848	Poseidon C3	OT-37	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Mar 5 2007	Poseidon C3	OT-37	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Mar 5 2225	Poseidon C3	OT-37	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 11 1601	Poseidon C3	FOT-41?	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 11 1601	Poseidon C3	FOT-41?	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 11 1602	Poseidon C3	FOT-41?	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Jul 11 1602	Poseidon C3	FOT-41?	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Apr 8 1900	Poseidon C3	DASO	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1990 Apr 30 1750	Poseidon C3	DASO-61	-	SSBN-642	USS Kamehameha	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.33 USS George Bancroft



Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-643

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Apr 7 1600	Polaris A3	1 of 2 failed	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	20.0
1966 Apr 7 1630	Polaris A3	-	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Apr 21 1600	Polaris A3	-	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Apr 21 1630	Polaris A3	-	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Apr 21 1915:02	Polaris A3	-	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 24	Polaris A3	FOT	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Sep 25 2245	Poseidon C3	DASO-22	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Feb 3 2115	Poseidon C3	FOT-17?	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Feb 3 2116	Poseidon C3	FOT-17?	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Feb 3 2147	Poseidon C3	FOT-17?	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 May 25 2257	Poseidon C3	OT-30	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 May 25 2327	Poseidon C3	OT-30	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 May 25 2327	Poseidon C3	OT-30	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1982 Apr 24 1752	Trident C-4	DASO-12	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1989 Feb 4 0303:04	Trident C-4	DASO-32/JANUS	-	SSBN-643	USS George Bancroft	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.34 USS Lewis and Clark

Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-644

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Feb 17 1630:03	Polaris A3	-	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Mar 3 1650:02	Polaris A3	- (SSBN 642?)	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Dec 18 2115	Poseidon C3	DASO-24	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Apr 23 0946	Poseidon C3	FOT-19?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Apr 23 0953	Poseidon C3	FOT-19?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jun 19 0115	Poseidon C3	FOT-43?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jun 19 0115	Poseidon C3	FOT-43?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jun 19 0116	Poseidon C3	FOT-43?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jun 19 0116	Poseidon C3	FOT-43?	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Mar 19 1700	Poseidon C3	DASO	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Jun 13	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Jun 13	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Jun 13	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Jun 13 0608	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Nov 4	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Nov 4	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Nov 4 2059	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 Nov 4 2059	Poseidon C3	FOT	-	SSBN-644	USS Lewis and Clark	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.35 USS James K Polk

Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-645

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Jun 10 1609	Polaris A3	-	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Jun 23 1600	Polaris A3	-	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 Jan 13 2145	Poseidon C3	DASO-25	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Apr 19 0028:00	Poseidon C3	FOT-9	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Apr 19 0033:34	Poseidon C3	FOT-9	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Aug 29 1724:26	Poseidon C3	FOT-14?	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Aug 29 1724:44	Poseidon C3	FOT-14?	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 24 0935	Poseidon C3	OT-33	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 24 0935	Poseidon C3	OT-33	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 24 0936	Poseidon C3	OT-33	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 Apr 24 0936	Poseidon C3	OT-33	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Feb 19 0332?	Poseidon C3	FOT-36	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Feb 19 0333	Poseidon C3	FOT-36	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Feb 19 0335	Poseidon C3	FOT-36	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Feb 19 0500	Poseidon C3	FOT-36	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1983 Jul 23 1915	Poseidon C3	DASO	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Apr 9	Poseidon C3	FOT	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Apr 9 0516	Poseidon C3	FOT	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1989 Mar 9 2133:02	Poseidon C3	DASO	-	SSBN-645	USS James K Polk	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.36 USS George C Marshall

Credit: USN

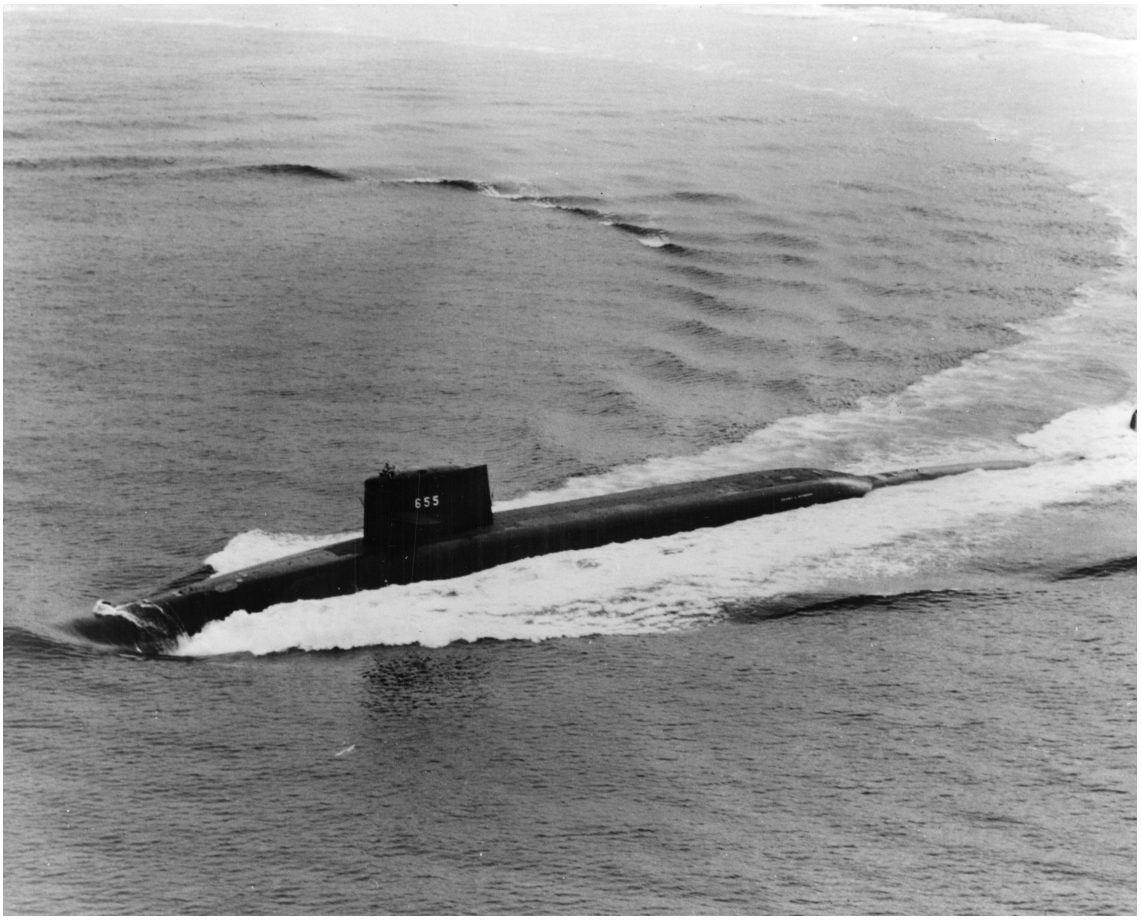
Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-654

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Jul 11 1600	Polaris A3	-	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Jul 25 1600	Polaris A3	-	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 Apr 28 2248	Poseidon C3	DASO	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Mar 30 1202	Poseidon C3	OT-29	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1977 Mar 30 1336	Poseidon C3	OT-29	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Feb 3 0112	Poseidon C3	FOT-38?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Feb 3 0113	Poseidon C3	FOT-38?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Feb 3 0113	Poseidon C3	FOT-38?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Feb 4 0242	Poseidon C3	FOT-39?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jul 11 1448	Poseidon C3	FOT-44?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jul 11 1448	Poseidon C3	FOT-44?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jul 11 1449	Poseidon C3	FOT-44?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1981 Jul 11 1449	Poseidon C3	FOT-44?	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1984 Jul 24 1700	Poseidon C3	DASO	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Oct 16	Poseidon C3	FOT	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Oct 16	Poseidon C3	FOT	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Oct 16	Poseidon C3	FOT	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1987 Oct 16 1617	Poseidon C3	FOT	-	SSBN-654	USS George C Marshall	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.37 USS Henry L Stimson



Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-655

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Nov 14	Polaris A3	-	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Nov 14 1650:02	Polaris A3	-	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Nov 28 1615:02	Polaris A3	-	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1966 Nov 28 1645:02	Polaris A3	-	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Sep 9	Polaris A3	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 May 9 2325	Poseidon C3	DASO	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Nov 23	Poseidon C3	FOT-25?	-	SSBN-655	USS Henry L Stimson	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	500.0
1976 Nov 23	Poseidon C3	FOT-25?	-	SSBN-655	USS Henry L Stimson	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	500.0
1980 Mar 26 1219	Trident C-4	DASO-4?	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Aug 27 0219	Trident C-4	OT-5	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Aug 27 0220	Trident C-4	OT-5	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Aug 27 0220	Trident C-4	OT-5	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1984 Dec 15 2044	Trident C-4	DASO	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Jul 28	Trident C-4	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Jul 28 2155	Trident C-4	FOT	-	SSBN-655	USS Henry L Stimson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Apr 8	Trident C-4	FCET-40	-	SSBN-655	USS Henry L Stimson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Apr 8	Trident C-4	FCET-40	-	SSBN-655	USS Henry L Stimson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.38 USS George Washington Carver

Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-656

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Sep 1 1700:00	Polaris A3	-	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 1	Polaris A3	FOT	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 1	Polaris A3	FOT	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1967 Nov 1	Polaris A3	FOT	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 May 19 2300	Poseidon C3	DASO	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Jun 24	Poseidon C3	FOT-12?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1975 Jun 24	Poseidon C3	FOT-12?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Apr 20 2008	Poseidon C3	FOT-18?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1976 Apr 20 2009	Poseidon C3	FOT-18?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Apr 21 2147	Poseidon C3	FOT-40?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Apr 21 2147	Poseidon C3	FOT-40?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Apr 21 2147	Poseidon C3	FOT-40?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1980 Apr 21 2148	Poseidon C3	FOT-40?	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1985 Aug 10 1700	Poseidon C3	DASO	-	SSBN-656	USS George Washington Carver	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.22.39 USS Francis Scott Key

Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-657

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967 Apr 3 2325:01	Polaris A3	-	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 26	Polaris A3	FOT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 26	Polaris A3	FOT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 26	Polaris A3	FOT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Apr 26	Polaris A3	FOT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 May 11	Polaris A3	OT	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 Sep 15 2215	Poseidon C3	DASO	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Apr 10 1000	Trident C-4	PEM-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1979 Jun 8 1837	Trident C-4	PEM-3	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Jun 19 1800	Trident C-4	PEM-2	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Jul 14 1800	Trident C-4	PEM-4	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Jul 22 1800	Trident C-4	Imp. Evader 210	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Jul 31 0215	Trident C-4	PEM-7	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Jul 31 0433	Trident C-4	PEM-6	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Aug 29 0030	Trident C-4	DASO-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Sep 26 2344	Trident C-4	DASO-2?	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Feb 28 1313	Trident C-4	OT-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Feb 28 1313	Trident C-4	OT-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Feb 28 1415	Trident C-4	OT-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Feb 28 1415	Trident C-4	OT-1	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 May 28 0623	Trident C-4	OT-3	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 May 28 0624	Trident C-4	OT-3	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 May 28 0652	Trident C-4	OT-3	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 May 28 0652	Trident C-4	OT-3	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 Dec 7 1530	Trident C-4	DASO	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Jun 19 1800:00	Trident C-4	- .	-	SSBN-657	USS Francis Scott Key	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.40 USS Mariano G Vallejo

Credit: USN

Rockets used: Polaris A3,Poseidon C3,Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-658

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967 Mar 6 0245:01	Polaris A3	-	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Apr 12 2324	Poseidon C3	DASO	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Nov 22	Poseidon C3	FOT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Nov 22	Poseidon C3	FOT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Nov 22	Poseidon C3	FOT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Nov 22	Poseidon C3	FOT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 21	Poseidon C3	OT-35	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 21 1222	Poseidon C3	OT-35	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 21 1223	Poseidon C3	OT-35	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1978 May 21 1255	Poseidon C3	OT-35	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1979 Dec 13 1730	Trident C-4	DASO-3?	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Apr 1 1236	Trident C-4	OT-2	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Apr 2 1239	Trident C-4	OT-2	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Apr 2 1423	Trident C-4	OT-2	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Apr 2 1423	Trident C-4	OT-2	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Jun 27 0539	Trident C-4	OT-4	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Jun 27 0539	Trident C-4	OT-4	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Jun 27 0553	Trident C-4	OT-4	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Jun 27 0553	Trident C-4	OT-4	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Mar 17	Trident C-4	OT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Mar 17	Trident C-4	OT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Mar 17	Trident C-4	OT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Mar 17 1034	Trident C-4	OT-8	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1984 Oct 9 2105	Trident C-4	DASO	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Apr 15	Trident C-4	FOT	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Apr 15	Trident C-4	FOT	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Apr 15 0411	Trident C-4	FOT	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 Apr 15 0526	Trident C-4	FOT	-	SSBN-658	USS Mariano G Vallejo	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 May 10	Trident C-4	FCET	-	SSBN-658	USS Mariano G Vallejo	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 May 10	Trident C-4	FCET	-	SSBN-658	USS Mariano G Vallejo	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 May 10	Trident C-4	FCET	-	SSBN-658	USS Mariano G Vallejo	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 May 10	Trident C-4	FCET	-	SSBN-658	USS Mariano G Vallejo	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.22.41 USS Will Rogers

Credit: USN

Rockets used: Polaris A3,Poseidon C3

Updated: 2025 Jul 16 0237:17

Launches: SSBN-659

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967 Jul 31 1518:04	Polaris A3	-	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1971 Mar 19	Polaris A3	FOT	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 May 15 2300	Poseidon C3	DASO	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 May 15 2345	Poseidon C3	DASO	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Oct 22	Poseidon C3	FOT-7	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Oct 22	Poseidon C3	FOT-7	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Oct 22	Poseidon C3	FOT-7	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1974 Oct 22	Poseidon C3	FOT-7	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0
1986 May 20 1645	Poseidon C3	DASO	-	SSBN-659	USS Will Rogers	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	500.0

IV.1.23 US Navy Trident Submarines

Updated: 2025 Jul 16 0237:17

US Navy Trident Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Ohio	USS Ohio		SSBN-726	USN	Ohio	SSBN-726	-	1979 - 2003
USS Michigan	USS Michigan		SSBN-727	USN	Ohio	SSBN-727	-	1980 - 2007
USS Florida	USS Florida		SSBN-728	USN	Ohio	SSBN-728	-	1981 - 2003
USS Georgia	USS Georgia		SSBN-729	USN	Ohio	SSBN-729	-	1982 - 2003
USS Henry M. Jackson	USS Henry M. Jackson		SSBN-730	USN	Ohio	SSBN-730	-	1983 - -
USS Alabama	USS Alabama		SSBN-731	USN	Ohio	SSBN-731	-	1984 - -
USS Alaska	USS Alaska		SSBN-732	USN	Ohio	SSBN-732	-	1985 - -
USS Nevada	USS Nevada		SSBN-733	USN	Ohio	SSBN-733	-	1985 - -
USS Tennessee	USS Tennessee		SSBN-734	USN	Ohio	SSBN-734	-	1986 - -
USS Pennsylvania	USS Pennsylvania		SSBN-735	USN	Ohio	SSBN-735	-	1988 - -
USS West Virginia	USS West Virginia		SSBN-736	USN	Ohio	SSBN-736	-	1989 - -

US Navy Trident Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USS Kentucky	USS Kentucky		SSBN-737	USN	Ohio	SSBN-737	-	1990 - -
USS Maryland	USS Maryland		SSBN-738	USN	Ohio	SSBN-738	-	1991 - -
USS Nebraska	USS Nebraska		SSBN-739	USN	Ohio	SSBN-739	-	1992 - -
USS Rhode Island	USS Rhode Island		SSBN-740	USN	Ohio	SSBN-740	-	1993 - -
USS Maine	USS Maine		SSBN-741	USN	Ohio	SSBN-741	-	1994 - -
USS Wyoming	USS Wyoming		SSBN-742	USN	Ohio	SSBN-742	-	1995 - -
USS Louisiana	USS Louisiana		SSBN-743	USN	Ohio	SSBN-743	-	1996 - -

IV.1.23.1 USS Ohio

Credit: H. Gerwein

Rockets used: Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-726

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Jan 17 1411	Trident C-4	DASO-9	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Mar 13 1700	Trident C-4	DASO-11	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Sep?	Trident C-4	FOT	-	SSBN-726	USS Ohio	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1983 Sep?	Trident C-4	FOT	-	SSBN-726	USS Ohio	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1983 Sep?	Trident C-4	FOT	-	SSBN-726	USS Ohio	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1983 Sep?	Trident C-4	FOT	-	SSBN-726	USS Ohio	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
1994 Oct 22 2009:03	Trident C-4	-	-	SSBN-726	USS Ohio	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 May 16 2148:55	Trident C-4	-	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 May 16 2149:12	Trident C-4	-	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 May 16 2250:13	Trident C-4	-	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 May 16 2250:31	Trident C-4	- 200?	-	SSBN-726	USS Ohio	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 9 2011	Trident C-4	OT-III (218)	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 9 2011	Trident C-4	OT-III	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 9 2136	Trident C-4	OT-III	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 9 2136	Trident C-4	OT-III (221)	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 18 2011	Trident C-4	OT-III (223)	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 18 2011	Trident C-4	OT-III (224)	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 18 2204	Trident C-4	OT-III (225)	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Dec 18 2204	Trident C-4	OT-III	-	SSBN-726	USS Ohio	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.2 USS Michigan

Credit: US Navy

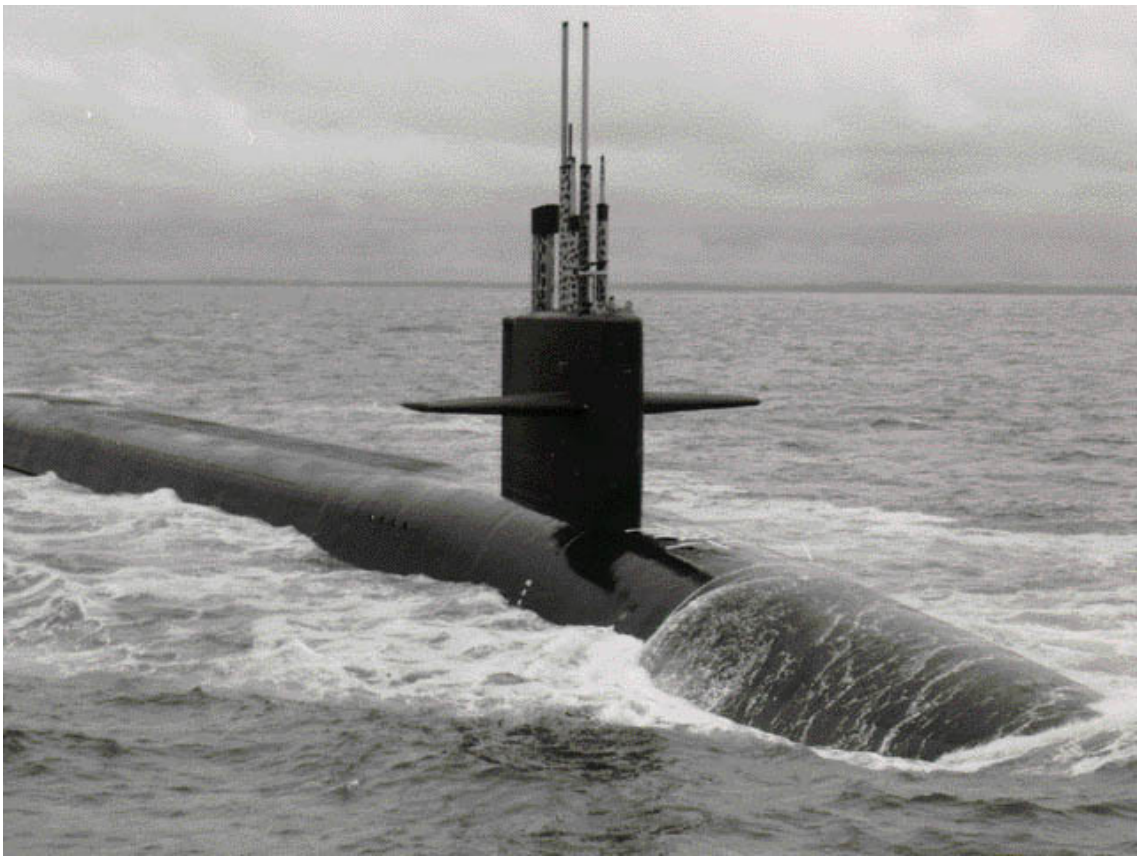
Rockets used: Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-727

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Nov 21 1734	Trident C-4	Adv Evader211A	-	SSBN-727	USS Michigan	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Oct 29 2100:03	Trident C-4	-	-	SSBN-727	USS Michigan	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.3 USS Florida



Credit: USN

Rockets used: Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-728

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1983 Aug 21 1800	Trident C-4	DASO	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Oct 3 1834	Trident C-4	DASO	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 6 2007:32	Trident C-4	- 190?	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 6 2007:49	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 6 2103:25	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 6 2103:42	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 14 1650:01	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Mar 14 1650:20	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Oct 2 2230:03	Trident C-4	-	-	SSBN-728	USS Florida	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.4 USS Georgia

Credit: USN

Rockets used: Trident C-4

Updated: 2025 Jul 16 0237:17

Launches: SSBN-729

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Apr 7 0720	Trident C-4	DASO	-	SSBN-729	USS Georgia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Mar 28 1806:55	Trident C-4	- 181?	-	SSBN-729	USS Georgia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Mar 28 1807?	Trident C-4	-	-	SSBN-729	USS Georgia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Mar 28 1807?	Trident C-4	-	-	SSBN-729	USS Georgia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Mar 28 1807?	Trident C-4	-	-	SSBN-729	USS Georgia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.5 USS Henry M. Jackson

Credit: US Navy

Rockets used: Trident C-4,Trident D-5

Updated: 2025 Jul 16 0237:17

Launches: SSBN-730

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Dec 4 1954	Trident C-4	DASO	-	SSBN-730	USS Henry M. Jackson	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Dec 7 1611:40	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Dec 7 1611:57	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Dec 7 1611:57	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Dec 7 1611:57	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Mar 23 2146:10	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Mar 23 2146:28	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Mar 25 0017:05	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Mar 25 0017:22	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Feb 26 2000	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Feb 26 2000	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Feb 26 2243	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Feb 26 2243	Trident C-4	-	-	SSBN-730	USS Henry M. Jackson	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2007 Nov 29	Trident D-5	- (120ss)	-	SSBN-730	USS Henry M. Jackson	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.6 USS Alabama

Credit: US Navy

Rockets used: Trident C-4,Trident D-5

Updated: 2025 Jul 16 0237:17

Launches: SSBN-731

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Jul 6 0055	Trident C-4	DASO	-	SSBN-731	USS Alabama	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1988 May 15 0345	Trident C-4	-	-	SSBN-731	USS Alabama	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2009 Feb 13	Trident D-5	- (126ss)	-	SSBN-731	USS Alabama	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.7 USS Alaska

Credit: US Navy

Rockets used: Trident C-4,Trident D-5

Updated: 2025 Jul 16 0237:17

Launches: SSBN-732

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1986 Feb 21 1715	Trident C-4	DASO	-	SSBN-732	USS Alaska	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Feb 20 2011:31	Trident C-4	-	-	SSBN-732	USS Alaska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Feb 20 2011:49	Trident C-4	-	-	SSBN-732	USS Alaska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Feb 20 2124:47	Trident C-4	-	-	SSBN-732	USS Alaska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Feb 20 2125:04	Trident C-4	-	-	SSBN-732	USS Alaska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Mar 16 2150	Trident D-5	- (95ss)	-	SSBN-732	USS Alaska	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2006 May 9	Trident D-5	W76 LEP?	-	SSBN-732	USS Alaska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2006 May 9	Trident D-5	W76 LEP?	-	SSBN-732	USS Alaska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2009 Dec 19	Trident D-5	- (130ss)	-	SSBN-732	USS Alaska	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.8 USS Nevada

Credit: US Navy

Rockets used: Trident C-4,Trident D-5

Updated: 2025 Jul 16 0237:17

Launches: SSBN-733

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1986 Sep 30 1520	Trident C-4	DASO	-	SSBN-733	USS Nevada	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Feb 10 2133:09	Trident C-4	-	-	SSBN-733	USS Nevada	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Feb 10 2133:26	Trident C-4	-	-	SSBN-733	USS Nevada	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Feb 10 2236:47	Trident C-4	-	-	SSBN-733	USS Nevada	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Feb 10 2237:04	Trident C-4	-	-	SSBN-733	USS Nevada	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Dec 11 1950	Trident D-5	-	-	SSBN-733	USS Nevada	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2004 Nov 4	Trident D-5	- (107ss)	-	SSBN-733	USS Nevada	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2004 Nov 4	Trident D-5	- (108ss)	-	SSBN-733	USS Nevada	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2011 Mar 1 2100	Trident D-5	- (135ss/136s)	-	SSBN-733	USS Nevada	WTR	LP13	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.9 USS Tennessee

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:17

Launches: SSBN-734

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1989 Mar 21 1620	Trident D-5	PEM-1	-	SSBN-734	USS Tennessee	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	0.0
1989 Aug 2 1500:03	Trident D-5	PEM-2	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1989 Aug 15 2110:00	Trident D-5	PEM-4	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	0.0
1989 Dec 4 1540:03	Trident D-5	PEM-5	-	SSBN-734	USS Tennessee	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1989 Dec 13 1415:03	Trident D-5	PEM-11	-	SSBN-734	USS Tennessee	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1989 Dec 15 1415	Trident D-5	PEM-3	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Jan 15 1645:07	Trident D-5	PEM-7	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Jan 16 1600:03	Trident D-5	PEM-6	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Feb 12 1410	Trident D-5	DASO-1	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Feb 12 1410:20	Trident D-5	PEM-8	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Nov 3 1153	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Nov 3 1238:11	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Nov 3 1337	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Nov 3 1337	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Aug 4	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Aug 4	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Aug 4	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Aug 4	Trident D-5	CET	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Nov 10	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Nov 10	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Nov 10	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Nov 10	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Apr 9 2020	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Apr 9 2020	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Oct 28 1930:20	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Oct 28 1930:37	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2005 Mar 2 0400:13	Trident D-5	Short range test	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2005 Mar 2 0509:16	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2007 May 15	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2007 May 15	Trident D-5	-	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Feb 22	Trident D-5	- (137s)	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2013 Sep 10 2110?	Trident D-5	- (145s)	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2013 Sep 10 2110?	Trident D-5	- (146s)	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2013 Sep 12	Trident D-5	- (147s)	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2013 Sep 12	Trident D-5	- (148s)	-	SSBN-734	USS Tennessee	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.10 USS Pennsylvania

Credit: US Navy

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-735

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1990 Mar 12 0345:03	Trident D-5	DASO-3	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1990 Sep 26 1555	Trident D-5	DASO-4	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Jul 29	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Jul 29	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Jul 29	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Jul 29	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Nov 11	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Nov 11	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Nov 11	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Nov 11	Trident D-5	CET	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1993 Jul 7	Trident D-5	-	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1993 Jul 7	Trident D-5	-	-	SSBN-735	USS Pennsylvania	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Jul 19 2001:01	Trident D-5	-	-	SSBN-735	USS Pennsylvania	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Jul 19 2001:17	Trident D-5	-	-	SSBN-735	USS Pennsylvania	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2013 Apr?	Trident D-5	- (144s)	-	SSBN-735	USS Pennsylvania	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2015 Feb 22	Trident D-5	- (154s)	-	SSBN-735	USS Pennsylvania	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2015 Feb 22	Trident D-5	- (155s)	-	SSBN-735	USS Pennsylvania	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.11 USS West Virginia

Credit: US Navy

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-736

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1990 Nov 28 2000:03	Trident D-5	DASO-5	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Apr 15 2210:03	Trident D-5	DASO-6	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Feb 22	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Feb 22	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Feb 22	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Feb 22	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Jun 18	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Jun 18	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Jun 18	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Jun 18	Trident D-5	CET	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Mar 17 2226:28	Trident D-5	-	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Mar 18 0016	Trident D-5	-	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Mar 7 2342:31	Trident D-5	- 78?	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Mar 7 2342:47	Trident D-5	- 79?	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Mar 10 2333:10	Trident D-5	- 80?	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1998 Mar 11 0115:58	Trident D-5	- 81?	-	SSBN-736	USS West Virginia	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2009 Sep 3	Trident D-5	- (128ss)	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2009 Sep 4	Trident D-5	- (129ss)	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2014 Jun 2	Trident D-5	- (149s)	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2014 Jun 2	Trident D-5	- (150s)	-	SSBN-736	USS West Virginia	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2021 Feb 9 2330	Trident D-5	- (179s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2021 Feb 10	Trident D-5	- (180s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2021 Feb 11	Trident D-5	- (181s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2021 Feb 11	Trident D-5	- (182s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2023 Jun 15?	Trident D-5	- (189s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2023 Jun 15?	Trident D-5	- (190s)	-	SSBN-736	USS West Virginia	ETR	LP6	-	-	79.0W 28.5N (+/- 2.0)	1800.0

IV.1.23.12 USS Kentucky

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-737

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1991 Aug 30 2332:03	Trident D-5	DASO-7	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1991 Nov 4 2042	Trident D-5	DASO-8	-	SSBN-737	USS Kentucky	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Sep 3	Trident D-5	CET	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Sep 3	Trident D-5	CET	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Sep 3	Trident D-5	CET	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Sep 3	Trident D-5	CET	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Nov 10 2023:56	Trident D-5	-	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Nov 10 2150	Trident D-5	- (87ss)	-	SSBN-737	USS Kentucky	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 May 14	Trident D-5	- (91ss)	-	SSBN-737	USS Kentucky	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2015 Nov 8 0200	Trident D-5	- (156s)	-	SSBN-737	USS Kentucky	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2015 Nov 9 2000?	Trident D-5	- (157s)	-	SSBN-737	USS Kentucky	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2017 Feb 14 1130	Trident D-5	- (162s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2017 Feb 14 1420	Trident D-5	- (163s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2017 Feb 15?	Trident D-5	- (164s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2017 Feb 16?	Trident D-5	- (165s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2022 Jun 15	Trident D-5	- (185s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2022 Jun 15	Trident D-5	- (186s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2022 Jun 17	Trident D-5	- (187s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2022 Jun 17	Trident D-5	- (188s)	-	SSBN-737	USS Kentucky	WTR	LP14	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.13 USS Maryland

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-738

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1992 Jul 29	Trident D-5	DASO-9	-	SSBN-738	USS Maryland	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1992 Oct 19	Trident D-5	DASO-10	-	SSBN-738	USS Maryland	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Jan 20 0103:52	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Jan 20 0104:09	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Jan 20 0221:06	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Jan 20 0222:23	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Apr 21 2136:06	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1996 Apr 21 2136:23	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Apr 26 1947:31	Trident D-5	- to ASC C-17	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Apr 26 1947:47	Trident D-5	- to ASC C-17	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2003 Nov 5 2110:02	Trident D-5	-	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2003 Nov 5 2322:43	Trident D-5	- (104ss)	-	SSBN-738	USS Maryland	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2006 Nov 21	Trident D-5	W76 (116ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2006 Nov 21	Trident D-5	W76 (117ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2010 Jun 8	Trident D-5	- (131ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2010 Jun 8	Trident D-5	- (132ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2010 Jun 9	Trident D-5	- (133ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2010 Jun 9	Trident D-5	- (134ss)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Apr 14	Trident D-5	- (139s)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Apr 14	Trident D-5	- (140s)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Apr 16	Trident D-5	- (141s)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Apr 16	Trident D-5	- (142s)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2016 Aug 31	Trident D-5	- (161s)	-	SSBN-738	USS Maryland	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.23.14 USS Nebraska

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-739

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1993 Aug 20 1827	Trident D-5	-	-	SSBN-739	USS Nebraska	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1993 Nov 18	Trident D-5	PGW Test	-	SSBN-739	USS Nebraska	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Jan 19 2248:56	Trident D-5	-	-	SSBN-739	USS Nebraska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Jan 19 2249:12	Trident D-5	-	-	SSBN-739	USS Nebraska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2004 Feb 26 0031:20	Trident D-5	-	-	SSBN-739	USS Nebraska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2004 Feb 26 0133:51	Trident D-5	-	-	SSBN-739	USS Nebraska	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2008 May 8	Trident D-5	-	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2008 May 8	Trident D-5	- (122ss)	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2018 Mar 27 0240?	Trident D-5	- (166s)	-	SSBN-739	USS Nebraska	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2018 Mar 27 0240?	Trident D-5	- (167s)	-	SSBN-739	USS Nebraska	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2019 Sep 4	Trident D-5	- (173s)	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2019 Sep 4	Trident D-5	- (174s)	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2019 Sep 6	Trident D-5	- (175s)	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2019 Sep 6	Trident D-5	- (176s)	-	SSBN-739	USS Nebraska	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.23.15 USS Rhode Island

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-740

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1994 Dec 1 0045:03?	Trident D-5	-	-	SSBN-740	USS Rhode Island	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Feb 9 2010:00	Trident D-5	- to ASC C-25	-	SSBN-740	USS Rhode Island	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1999 Feb 9 2010:15	Trident D-5	- to ASC C-25	-	SSBN-740	USS Rhode Island	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2005 Dec 9 1902:42	Trident D-5	-	-	SSBN-740	USS Rhode Island	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2019 May 9	Trident D-5	- (172s)	-	SSBN-740	USS Rhode Island	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1800.0

IV.1.23.16 USS Maine

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-741

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1995 Dec 7 2047:00	Trident D-5	ENTB RV?	-	SSBN-741	USS Maine	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2003 Apr 23 1841	Trident D-5	-	-	SSBN-741	USS Maine	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2003 Apr 23 2043	Trident D-5	-	-	SSBN-741	USS Maine	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2020 Feb 12	Trident D-5	- (177s)	-	SSBN-741	USS Maine	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1800.0
2020 Feb 16	Trident D-5	- (178s)	-	SSBN-741	USS Maine	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1800.0

IV.1.23.17 USS Wyoming

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-742

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1997 May 30 2230:04	Trident D-5	-	-	SSBN-742	USS Wyoming	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Apr 30	Trident D-5	- (89ss)	-	SSBN-742	USS Wyoming	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2000 Apr 30 1940:32	Trident D-5	- (88ss)	-	SSBN-742	USS Wyoming	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Oct 22 2131	Trident D-5	-	-	SSBN-742	USS Wyoming	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2021 Sep 17	Trident D-5	- (183s)	-	SSBN-742	USS Wyoming	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1800.0
2021 Sep 17	Trident D-5	- (184s)	-	SSBN-742	USS Wyoming	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1800.0

IV.1.23.18 USS Louisiana

Credit: USN

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: SSBN-743

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1997 Dec 18	Trident D-5	- (77ss)	-	SSBN-743	USS Louisiana	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Jun 25 2316	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Jun 25 2316	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2001 Jun 26 0113	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Apr 24	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Apr 24 2023	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2002 Apr 25	Trident D-5	-	-	SSBN-743	USS Louisiana	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2008 Aug 25	Trident D-5	- (123ss)	-	SSBN-743	USS Louisiana	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2008 Aug 25	Trident D-5	- (124ss)	-	SSBN-743	USS Louisiana	WTR	LP5	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2014 Sep 12 1300	Trident D-5	- (151s)	-	SSBN-743	USS Louisiana	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2014 Sep 12 1300	Trident D-5	- (152s)	-	SSBN-743	USS Louisiana	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2014 Sep 12 1300	Trident D-5	- (153s)	-	SSBN-743	USS Louisiana	WTR	SCL LP2	-	-	119.0W 33.0N (+/- 3.0)	1000.0
2023 Sep 27 2110	Trident D-5	- (191s)	-	SSBN-743	USS Louisiana	WTR	LP13	-	-	119.0W 33.0N (+/- 3.0)	1000.0

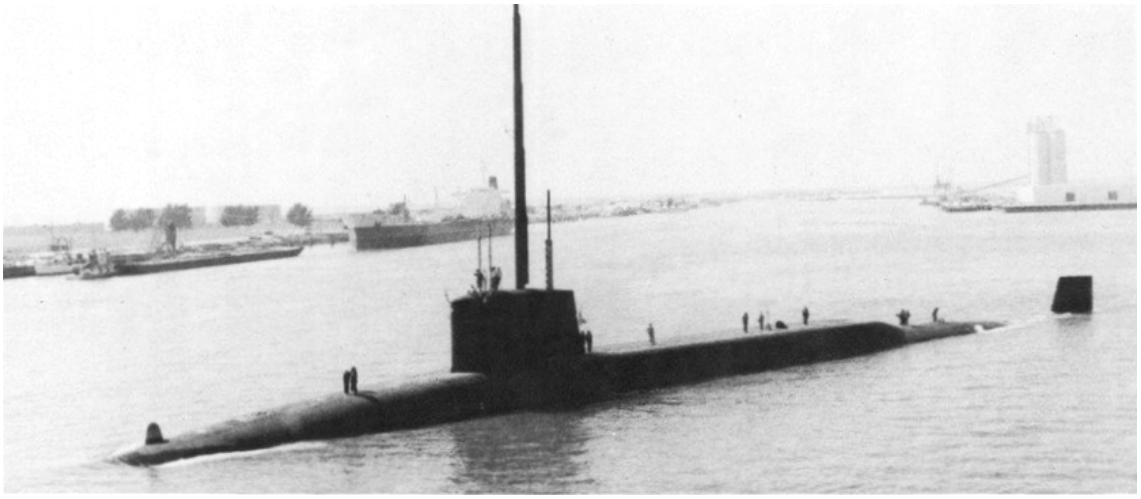
IV.1.24 UK Royal Navy Missile Submarines

Updated: 2025 Jul 16 0237:18

UK Royal Navy Missile Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
HMS Resolution (UK01)	HMS Resolution (UK01)		UK-S22	RN	Resolution	S22	-	1966 - 1994
HMS Repulse (UK03)	HMS Repulse (UK03)		UK-S23	RN	Resolution	S23	-	1967 - 1996
HMS Renown (UK02)	HMS Renown (UK02)		UK-S26	RN	Resolution	S26	-	1967 - 1996
HMS Revenge (UK04)	HMS Revenge (UK04)		UK-S27	RN	Resolution	S27	-	1968 - 1992
HMS Vanguard (UK05)	HMS Vanguard (UK05)		UK-S28	RN	Vanguard	S28	-	1992 - -
HMS Victorious (UK06)	HMS Victorious (UK06)		UK-S29	RN	Vanguard	S29	-	1993 - -
HMS Vigilant	HMS Vigilant		UK-S30	RN	Vanguard	S30	-	1995 - -
HMS Vengeance	HMS Vengeance		UK-S31	RN	Vanguard	S31	-	1998 - -

IV.1.24.1 HMS Resolution (UK01)



Credit: USN

HMS Resolution carried Polaris A3 missiles. It was launched in 1967 and retired in 1994. In 1984 it was updated to use the Chevaline payload.

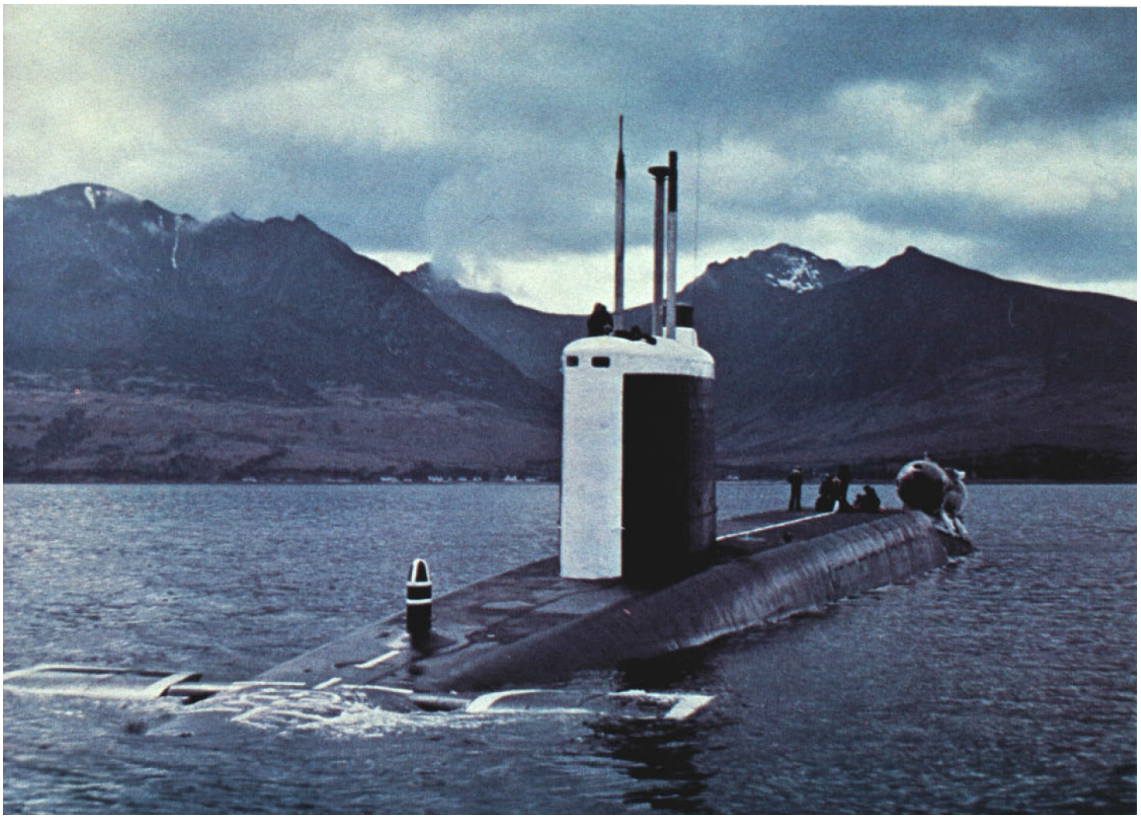
Rockets used: Polaris A3

Updated: 2025 Jul 16 0237:18

Launches: UK-S22

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 Feb 15 1615	Polaris A3	UK DASO-01	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1968 Mar 4 1615	Polaris A3	UK DASO-02	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1972 Mar 6 1630	Polaris A3	DASO	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1977 Jul 14 1600:00	Polaris A3	DASO	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 May 19 0055	Polaris A3	CHEVALINE DASO-3	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1985 May 20 0600	Polaris A3	CHEVALINE DASO-3	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1.0
1985 Jun 10 0826	Polaris A3	CHEVALINE DASO-3	-	UK-S22	HMS Resolution (UK01)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.2 HMS Repulse (UK03)



Credit: US Navy

HMS Repulse was launched in 1967 and retired in 1996.

Rockets used: Polaris A3

Updated: 2025 Jul 16 0237:18

Launches: UK-S23

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Mar 27 1600:03	Polaris A3	UK DASO-03	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Apr 14 1630	Polaris A3	UK DASO-04	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1973 Feb 13 1629:59	Polaris A3	DASO	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1979 Feb 20 1700	Polaris A3	DASO?	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Apr 16 0925	Polaris A3	CHEVALINE CAF	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 Apr 18 0300	Polaris A3	CHEVALINE CAF	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1987 May 10 0945	Polaris A3	CHEVALINE CAF	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	5.0
1987 May 10 1107	Polaris A3	CHEVALINE CAF	-	UK-S23	HMS Repulse (UK03)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.3 HMS Renown (UK02)

Credit: Wikipedia

HMS Renown was launched in 1967 and updated to use Chevaline in 1982. It was retired in 1996.

Rockets used: Polaris A3

Updated: 2025 Jul 16 0237:18

Launches: UK-S26

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Jul 24 1610	Polaris A3	UK DASO-05	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1969 Aug 11 1530	Polaris A3	UK DASO-06	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1974 Jul 16 1459:59	Polaris A3	DASO	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Nov 14 2000	Polaris A3	CHEVALINE PS1	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1980 Nov 18 1630	Polaris A3	CHEVALINE PS2	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Jan 30 1630	Polaris A3	CHEVALINE DASO-1	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Feb 1 1830	Polaris A3	CHEVALINE DASO-1	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Feb 3 1630	Polaris A3	CHEVALINE DASO-1	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1982 Feb 8 1830	Polaris A3	CHEVALINE DASO-1	-	UK-S26	HMS Renown (UK02)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.4 HMS Revenge (UK04)

Credit: Admiralty

HMS Revenge was launched in 1968 and retired in 1992.

Rockets used: Polaris A3

Updated: 2025 Jul 16 0237:18

Launches: UK-S27

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 Jun 1 1530	Polaris A3	-	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1970 Jun 18 1530	Polaris A3	-	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1975 Nov 22 1600:02	Polaris A3	DASO	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 May 15 1546	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 May 16 1530	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Jun 9 1500	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0
1983 Jun 9 1605	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Jun 11 1500	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1983 Jun 11 1643	Polaris A3	CHEVALINE DASO-2	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Jul 25 2230	Polaris A3	CHEVALINE DASO-4 PEM	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Jul 26 0213	Polaris A3	CHEVALINE DASO-4 PEM	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Aug 1 2215	Polaris A3	CHEVALINE DASO-4 PEM	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1986 Aug 2 0135	Polaris A3	CHEVALINE DASO-4 PEM	-	UK-S27	HMS Revenge (UK04)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.5 HMS Vanguard (UK05)

Credit: MoD

HMS Vanguard was the first UK Trident submarine, carrying 16 Trident II missiles. In was launched in 1992.

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: UK-S28

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1994 May 26 2215:03	Trident D-5	-	-	UK-S28	HMS Vanguard (UK05)	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1994 Jun 20 0300:03	Trident D-5	-	-	UK-S28	HMS Vanguard (UK05)	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2005 Oct 10 2110:08	Trident D-5	- (111ss)	-	UK-S28	HMS Vanguard (UK05)	ETR	D4	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2024 Jan 30	Trident D-5	- -	-	UK-S28	HMS Vanguard (UK05)	ETR	LP7	-	-	79.0W 28.5N (+/- 2.0)	1.0

IV.1.24.6 HMS Victorious (UK06)

Credit: UK MoD

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: UK-S29

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1995 Jul 24 2230:03	Trident D-5	-	-	UK-S29	HMS Victorious (UK06)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1995 Aug 22 2225:04	Trident D-5	-	-	UK-S29	HMS Victorious (UK06)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2009 May 26	Trident D-5	- (127ss)	-	UK-S29	HMS Victorious (UK06)	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.7 HMS Vigilant

Credit: MoD

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: UK-S30

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1997 Oct 10	Trident D-5	-	-	UK-S30	HMS Vigilant	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
1997 Oct 10 2005:03	Trident D-5	-	-	UK-S30	HMS Vigilant	ETR	LP5	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2012 Oct 23	Trident D-5	- (143s)	-	UK-S30	HMS Vigilant	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0

IV.1.24.8 HMS Vengeance

Credit: MoD

Rockets used: Trident D-5

Updated: 2025 Jul 16 0237:18

Launches: UK-S31

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2000 Sep 21 2050	Trident D-5	- (90ss)	-	UK-S31	HMS Vengeance	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	1000.0
2016 Jun 20	Trident D-5	- -	-	UK-S31	HMS Vengeance	ETR	SLBM	-	-	79.0W 28.5N (+/- 2.0)	10.0

IV.1.25 Indian Missile Submarines

Updated: 2025 Jul 16 0237:18

Indian Missile Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
INS Arihant	INS Arihant (S-73)		INS-S73	INAV	Arihant	INS-S73	-	2015 - -
INS Arighaat	INS Arighaat	-	INS-S74	INAV	Arihant	INS-S3	-	2017 - -

IV.1.25.1 INS Arihant (S-73)

INS Arihant

Credit: Indian Navy via Economic Times

Rockets used: K-15,K-4

Updated: 2025 Jul 16 0237:18

Launches: INS-S73

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2015 Nov 25?	K-15	Sagarika	-	INS-S73	INS Arihant (S-73)	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	300.0
2016 Mar 31	K-4	-	-	INS-S73	INS Arihant (S-73)	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	500.0
2018 Aug 11	K-15	Sagarika	-	INS-S73	INS Arihant (S-73)	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	300.0
2018 Aug 11	K-15	Sagarika	-	INS-S73	INS Arihant (S-73)	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	300.0
2018 Aug 12	K-15	Sagarika	-	INS-S73	INS Arihant (S-73)	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	300.0
2022 Oct 14	K-15	-	-	INS-S73	INS Arihant (S-73)	CHAN	IC4	-	-	86.6E 21.3N (+/- 0.1)	300.0

IV.1.25.2 INS Arighaat

Rockets used: K-4

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Updated: 2025 Jul 16 0237:18
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Launches: INS-S74

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Nov 27	K-4	-	-	INS-S74	INS Arighaat	VISKH	-	-	-	83.2E 17.7N (+/- 0.1)	500.0

IV.1.26 Chinese Missile Submarines

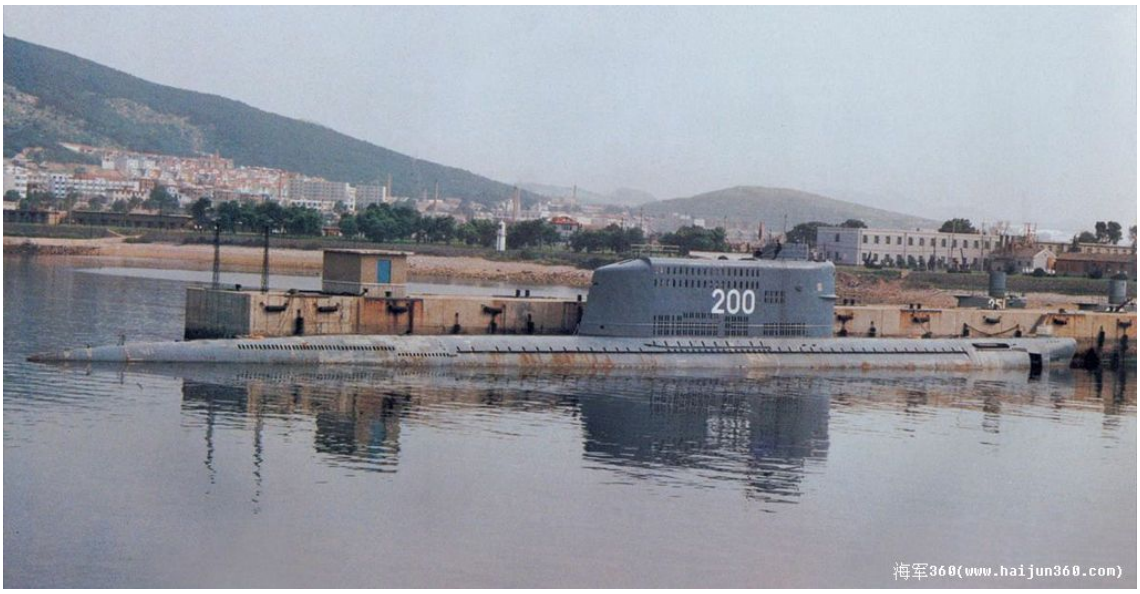
Updated: 2025 Jul 16 0237:18

Chinese Missile Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
长城-200	Changcheng 200 submarine		CH200	PLANS	Type 031	200	-	1982 - -
长城-406	Changcheng 406 submarine	-	CH406	PLANS	Type 092	406	-	1981 - -
Unknown Jinji Qianting (Type 094) class sub	Unknown Jinji Qianting (Type 094) class sub	-	T094	PLANS	Type 094	-	-	2006? - -

IV.1.26.1 Changcheng 200 submarine

长城-200



Credit: www.haijun360.com

Rockets used: JL-1

Updated: 2025 Jul 16 0237:18

Launches: CH200

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1982 Oct 12	JL-1	-	-	CH200	Changcheng 200 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	500.0

IV.1.26.2 Changcheng 406 submarine

长城-406

Rockets used: JL-1,JL-2

Updated: 2025 Jul 16 0237:18

Launches: CH406

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Sep 28	JL-1	-	-	CH406	Changcheng 406 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	0.0
1988 Sep 27	JL-1	-	-	CH406	Changcheng 406 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	500.0
2004 Jul 26?	JL-2	Julang-2	-	CH406	Changcheng 406 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	10.0
2005 Jun 12?	JL-2	-	-	CH406	Changcheng 406 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	1000.0
2008 May 29	JL-2	-	-	CH406	Changcheng 406 submarine	YEL	-	-	-	123.0E 35.0N (+/- 3.0)	1000.0

IV.1.26.3 Unknown Jinji Qianting (Type 094) class sub

Several Type 094 submarines exist. We don't know which ones were involved in specific launches.

Rockets used: JL-2,JL-3

Updated: 2025 Jul 16 0237:18

Launches: T094

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2012 Aug 16	JL-2	-	-	T094	Unknown Jinji Qianting (Type 094) class sub	BOHAI	-	-	-	120.9E 38.5N (+/- 0.5)	1000.0
2015 Jan 23	JL-2	-	-	T094	Unknown Jinji Qianting (Type 094) class sub	BOHAI	-	-	-	120.9E 38.5N (+/- 0.5)	1000.0
2018 Nov 22?	JL-3	-	-	T094	Unknown Jinji Qianting (Type 094) class sub	BOHAI	-	-	-	120.9E 38.5N (+/- 0.5)	1000.0
2019 Jun 1 2030?	JL-3	-	-	T094	Unknown Jinji Qianting (Type 094) class sub	BOHAI	-	-	-	120.9E 38.5N (+/- 0.5)	1000.0

IV.1.27 North Korean Missile Submarines

Updated: 2025 Jul 16 0237:18

North Korean Missile Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
8.24 Yongung	8.24 Yongung (Gorae class sub)	-	824YONG	KPA	Gorae	-	-	2016 - -
Submerged barge,Korean People's Navy	Submerged barge,Korean People's Navy	-	KPN-PLAT	KPA	-	-	-	2015 - -

IV.1.27.1 8.24 Yongung (Gorae class sub)

8.24 Yongung

Rockets used: Bukguekseong,Bukguekseong-3,Bukguekseong-6

Updated: 2025 Jul 16 0237:18

Launches: 824YONG

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2016 Apr 23 0930	Bukguekseong	Bukgeukseong	-	824YONG	8.24 Yongung (Gorae class sub)	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	10.0
2016 Jul 9 0230	Bukguekseong	Bukgeukseong	-	824YONG	8.24 Yongung (Gorae class sub)	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	40.0
2016 Aug 23 2030	Bukguekseong	Bukgeukseong	-	824YONG	8.24 Yongung (Gorae class sub)	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	500.0
2019 Oct 1 2211	Bukguekseong-3	-	-	824YONG	8.24 Yongung (Gorae class sub)	WONSAN	-	-	-	127.5E 39.2N (+/- 0.0)	910.0
2022 May 7 0505	Bukguekseong-6	-	-	824YONG	8.24 Yongung (Gorae class sub)	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	60.0

IV.1.27.2 Submerged barge,Korean People's Navy

Rockets used: Bukguekseong,Bukguekseong-6

Updated: 2025 Jul 16 0237:18

Launches: KPN-PLAT

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2015 May 8	Bukguekseong	Bukgeukseong	-	KPN-PLAT	Submerged barge,Korean People's Navy	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	1.0
2015 Nov 28	Bukguekseong	Ejection test	-	KPN-PLAT	Submerged barge,Korean People's Navy	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	0.0
2015 Dec 21	Bukguekseong	Ejection test	-	KPN-PLAT	Submerged barge,Korean People's Navy	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	0.0
2021 Oct 19 0117	Bukguekseong-6	-	-	KPN-PLAT	Submerged barge,Korean People's Navy	SINPO	-	-	-	128.2E 40.0N (+/- 0.0)	60.0

IV.1.28 French Missile Submarines

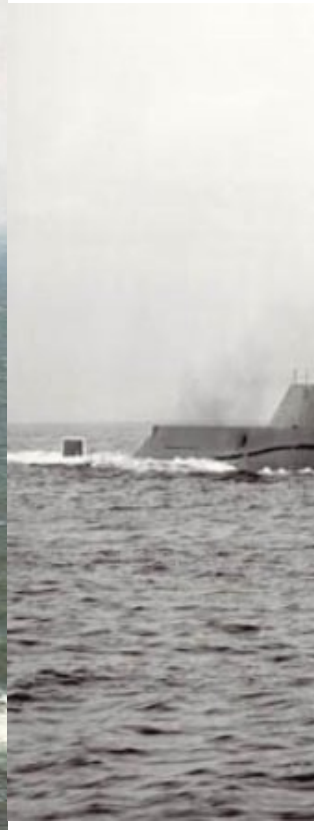
Updated: 2025 Jul 16 0237:18

French Missile Submarines

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
SNLE S655 Gymnote	SNLE S655 Gymnote		S655	ARMF	Gymnote	S655	-	1980? - 1986
SNLE S610 Le Foudroyant	SNLE S610 Le Foudroyant		S610	ARMF	Redoutable	S610	-	1971 - 1998
SNLE S611 Le Redoutable	SNLE S611 Le Redoutable		S611	ARMF	Redoutable	S611	-	1967 - 1991
SNLE S612 Le Terrible	SNLE S612 Le Terrible		S612	ARMF	Redoutable	S612	-	1969 - 1996
SNLE S613 L'Indomptable	SNLE S613 L'Indomptable		S613	ARMF	Redoutable	S613	-	1974 - 2003
SNLE S614 Le Tonnant	SNLE S614 Le Tonnant		S614	ARMF	Redoutable	S614	-	1977 - 1999
SNLE S615 L'Inflexible	SNLE S615 L'Inflexible		S615	ARMF	Redoutable	S615	-	1985 - 2008
SNLE-NG S616 Le Triomphant	SNLE-NG S616 Le Triomphant		S616	ARMF	Triomphant	S616	-	1994 - -
S617 Le Téméraire	SNLE-NG S617 Le Temeraire		S617	ARMF	Triomphant	S617	-	1998 - -
SNLE-NG S618 Le Vigilant	SNLE-NG S618 Le Vigilant		S618	ARMF	Triomphant	S618	-	2003 - -
SNLE-NG S619 Le Terrible	SNLE-NG S619 Le Terrible		S619	ARMF	Triomphant	S619	-	2008 - -

IV.1.28.1 SNLE S655 Gymnote

Credit: [source unknown]



Credit: Marine nationale

The Gymnote was an experimental submarine for test launches of French SLBMs.

Rockets used: MSBS M112,MSBS M013,MSBS M1,MSBS M2,MSBS M4

Updated: 2025 Jul 16 0237:18

Launches: S655

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967	MSBS M112	Gymnote 2	-	S655	SNLE S655 Gymnote	CERES	-	-	-	6.5E 43.0N (+/- 0.0)	50.0
1967	MSBS M112	Gymnote 3	-	S655	SNLE S655 Gymnote	CERES	-	-	-	6.5E 43.0N (+/- 0.0)	50.0
1967	MSBS M112	Gymnote 4 RSO Test	-	S655	SNLE S655 Gymnote	CERES	-	-	-	6.5E 43.0N (+/- 0.0)	10.0
1967 Apr 19	MSBS M112	Gymnote 1	-	S655	SNLE S655 Gymnote	CERES	-	-	-	6.5E 43.0N (+/- 0.0)	50.0
1968?	MSBS M013	V2	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1968?	MSBS M013	V3	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1968 Nov 16	MSBS M013	V1 Vecteur	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1969?	MSBS M013	V4	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1969?	MSBS M013	V5	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1969?	MSBS M013	V6	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1970?	MSBS M013	V7	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1970?	MSBS M013	C2	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1970?	MSBS M013	C3	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1970?	MSBS M013	C4	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1970 Jun 11	MSBS M013	C1 Charge (RV)	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971?	MSBS M013	C5	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971?	MSBS M013	C6	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971?	MSBS M013	C7	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971	MSBS M013	C8	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971?	MSBS M1	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1973	MSBS M2	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	600.0
1982?	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1982?	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1982 Mar 10	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1983	MSBS M4	-	-	S655	SNLE S655 Gymnote	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
1983 Jul 12	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1983 Nov 23	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1984 Feb 29	MSBS M4	-	-	S655	SNLE S655 Gymnote	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0

IV.1.28.2 SNLE S610 Le Foudroyant

Credit: Patrick Coulon (sousmarintimonier.monsite-orange.fr)

Le Foudroyant (S610) entered service in 1974. It carried the M1, M2 and M20 missiles. In 1990-93 it was modified to carry the M4. It was retired in 1998.x

Rockets used: MSBS M2

Updated: 2025 Jul 16 0237:18

Launches: S610

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1973?	MSBS M2	-	-	S610	SNLE S610 Le Foudroyant	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	600.0

IV.1.28.3 SNLE S611 Le Redoutable

Credit: Guilluame Rueda

S611 Le Redoutable was launched in Mar 1967 and in service Dec 1971. It had 16 M1 missiles, upgraded to M2 in 1974 and M20 in 1977. It was retired in 1991.

Rockets used: MSBS M1

Updated: 2025 Jul 16 0237:18

Launches: S611

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1971 May 29 1000?	MSBS M1	-	-	S611	SNLE S611 Le Redoutable	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0
1971 Jun 26	MSBS M1	-	-	S611	SNLE S611 Le Redoutable	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0

IV.1.28.4 SNLE S612 Le Terrible

Credit: Marine nationale

Le Terrible was launched Dec 1969 and entered service Jan 1973. It was refit to carry the M4 in 1988-1990 and retired in 1996.

Rockets used: MSBS M1

Updated: 2025 Jul 16 0237:18

Launches: S612

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1972?	MSBS M1	-	-	S612	SNLE S612 Le Terrible	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	500.0

IV.1.28.5 SNLE S613 L'Indomptable

Credit: (c) Bernard Prezelin

L'Indomptable was launched 1974 and entered service Dec 1976 with 16 M20 missiles. Upgrade to the M4 was carried out from Dec 1987 to Jun 1989. It was disarmed in 2005.

Rockets used: MSBS M20

Updated: 2025 Jul 16 0237:18

Launches: S613

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1976 Apr 7	MSBS M20	-	-	S613	SNLE S613 L'Indomptable	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	600.0
1979 Jul	MSBS M20	-	-	S613	SNLE S613 L'Indomptable	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	600.0

IV.1.28.6 SNLE S614 Le Tonnant

Credit: Marine nationale

Launched Sep 1977, in service April 1980 with 16 M20 missiles. Le Tonnant was refurbished Feb 1985- Apr 1987 to carry the M4.

Rockets used: MSBS M20,MSBS M4

Updated: 2025 Jul 16 0237:18

Launches: S614

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1980?	MSBS M20	-	-	S614	SNLE S614 Le Tonnant	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	600.0
1987 Sep 15	MSBS M4	Operational test	-	S614	SNLE S614 Le Tonnant	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0

IV.1.28.7 SNLE S615 L'Inflexible

Credit: wikipedia.org

Rockets used: MSBS M4,MSBS M45

Updated: 2025 Jul 16 0237:18

Launches: S615

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Jul 12	MSBS M4	-	-	S615	SNLE S615 L'Inflexible	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1986 Mar	MSBS M4	Long range test	M45 development?	S615	SNLE S615 L'Inflexible	CEL	-	-	-	1.2W 44.5N (+/- 0.0)	800.0
1999 May 4	MSBS M4	Veuglaire	-	S615	SNLE S615 L'Inflexible	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
2001 Apr 17 2200	MSBS M45	M51 R&D (to CSG)	-	S615	SNLE S615 L'Inflexible	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0

IV.1.28.8 SNLE-NG S616 Le Triomphant

Credit: Marine nationale, V. Guyoton

Le Triomphant was launched in 1994 and entered service in 1997.

Rockets used: MSBS M45,MSBS M51

Updated: 2025 Jul 16 0237:18

Launches: S616

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1995 Feb 14	MSBS M45	-	-	S616	SNLE-NG S616 Le Triomphant	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
1996 Sep 19	MSBS M45	-	-	S616	SNLE-NG S616 Le Triomphant	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	10.0
2005 Feb 1	MSBS M45	-	-	S616	SNLE-NG S616 Le Triomphant	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
2016 Jul 1 0718	MSBS M51	-	-	S616	SNLE-NG S616 Le Triomphant	BRETA	LP1	-	-	4.0W 47.6N (+/- 0.1)	1000.0

IV.1.28.9 SNLE-NG S617 Le Temeraire

S617 Le Téméraire

Credit: Marine nationale?

Rockets used: MSBS M45,MSBS M51

Updated: 2025 Jul 16 0237:18

Launches: S617

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1999 May 4	MSBS M45	-	-	S617	SNLE-NG S617 Le Temeraire	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
2020 Jun 12	MSBS M51	-	-	S617	SNLE-NG S617 Le Temeraire	BRETA	LP2	-	-	4.0W 47.6N (+/- 0.1)	1200.0

IV.1.28.10 SNLE-NG S618 Le Vigilant

Credit: Marine nationale

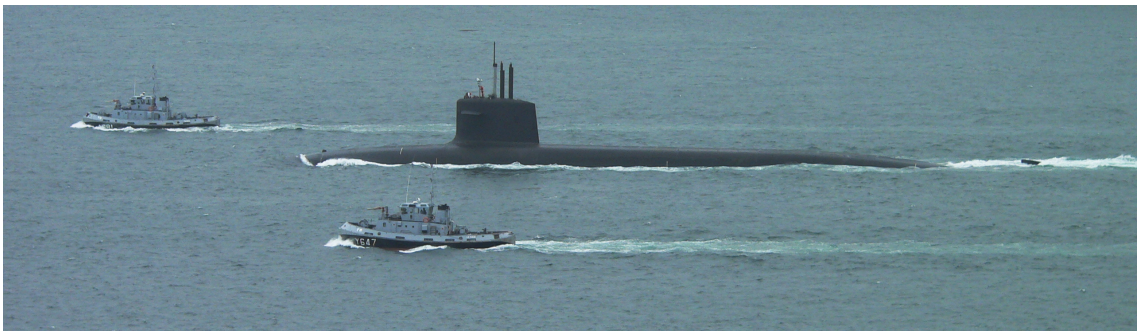
Rockets used: MSBS M45,MSBS M51

Updated: 2025 Jul 16 0237:18

Launches: S618

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2004 Jun 1 2201	MSBS M45	ME-34 Teutates	-	S618	SNLE-NG S618 Le Vigilant	BRET	-	-	-	4.5W 47.5N (+/- 0.7)	800.0
2013 May 5 0730	MSBS M51	M51.2	-	S618	SNLE-NG S618 Le Vigilant	BRETA	LP1	-	-	4.0W 47.6N (+/- 0.1)	1.0

IV.1.28.11 SNLE-NG S619 Le Terrible



Credit: Wolfgang Meinhart

The new Triomphant-class Le Terrible (not to be confused with the Redoutable class submarine of the same name) was launched in 2008 and entered service in 2010. It carries 16 M51 missiles.

Rockets used: MSBS M51

Updated: 2025 Jul 16 0237:18

Launches: S619

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2010 Jan 27 0825	MSBS M51	N Atlantic	-	S619	SNLE-NG S619 Le Terrible	BRETA	LP1	-	-	4.0W 47.6N (+/- 0.1)	1000.0
2010 Jul 10 0732	MSBS M51	N Atlantic	-	S619	SNLE-NG S619 Le Terrible	BRETA	LP1	-	-	4.0W 47.6N (+/- 0.1)	1000.0
2023 Apr 19	MSBS M51	-	-	S619	SNLE-NG S619 Le Terrible	BRETA	LP1	-	-	4.0W 47.6N (+/- 0.1)	1000.0

IV.1.29 US Rocket Launching Aircraft: Bombers

Updated: 2025 Jul 16 0237:18

US Rocket Launching Aircraft: Bombers

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
B-1B Lancer, unknown S/N	B-1B Lancer, unknown S/N	-	B-1B	USAF	B-1B	-	-	- - -
B-29 or B-50 Superfortress, unknown S/N	B-29 or B-50 Superfortress, unknown S/N	-	B-29	USAF	B-29	-	-	- - -
B-29B-60-BO Superfortress S/N 44-84073	B-29B-60-BO Superfortress S/N 44-84073		B-29-073	USAF	B-29	44-80473	-	1951 - 1960
B-29-55-BO Superfortress S/N 44-86402	B-29-55-BO Superfortress S/N 44-86402		B-29-402	USAF	B-29	44-86402	-	1951 - 1960
DB-47E-60-BW Stratojet S/N 51-5220	DB-47E-60-BW Stratojet S/N 51-5220		B-47E-220	USAF	B-47	51-5220	-	1958 - 1959
JTB-50D-80-BO Superfortress S/N 48-0068	JTB-50D-80-BO Superfortress S/N 48-0068	-	B-50D-068	USAF	B-50	48-0068	-	1951 - 1960
B-52G/H Stratofortress	B-52G/H Stratofortress		B-52GH	USAF	B-52	-	-	1969 - 1984
FB-111	FB-111	-	FB-111	USAF	FB-111	-	-	- - -
B-52G Stratofortress S/N 57-6473	B-52G Stratofortress S/N 57-6473		B-52G-473	USAF	B-52	57-6473	-	1962 - 1963
B-52H Stratofortress, unknown S/N	B-52H Stratofortress, unknown S/N	-	B-52H	USAF	B-52	60-0024	-	- - -
B-52H Stratofortress S/N 60-0021 or 60-0036	B-52H Stratofortress S/N 60-0021 or 60-0036		B-52H-T	USAF	B-52	60-0021/36	-	1967 - 1970
B-52H Stratofortress S/N 60-0021	B-52H Stratofortress S/N 60-0021		B-52H-021	USAF	B-52	60-0021	-	1967 - 1970
B-52H Stratofortress S/N 60-0024?	B-52H Stratofortress S/N 60-0024?		B-52H-024	USAF	B-52	60-0024	-	2009 - 2016

US Rocket Launching Aircraft: Bombers

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
B-52H Stratofortress S/N 60-0031?	B-52H Stratofortress S/N 60-0031?		B-52H-031	USAF	B-52	60-0031	-	2009 - 2016
B-52H Stratofortress S/N 60-0036	B-52H Stratofortress S/N 60-0036		B-52H-036	USAF	B-52	60-0036	-	1967 - 1970
B-52H Stratofortress S/N 60-0050	B-52H Stratofortress S/N 60-0050		B-52H-050	USAF	B-52	60-0050	-	2009 - 2016
NB-52 Stratofortress (S/N 003 or 008)	NB-52 Stratofortress (S/N 003 or 008)	-	NB-52	FRC	B-52	52-003/008	-	- - -
NB-52A Stratofortress S/N 003	NB-52A Stratofortress S/N 003		NB-52-003	FRC	B-52	52-003	-	- - -
NB-52B Stratofortress S/N 008	NB-52B Stratofortress S/N 008		NB-52-008	FRC	B-52	52-008	-	- - -
B-57A Canberra, AFSWC	B-57A Canberra, AFSWC	-	B-57A-SWC	AFSWC	B-57	-	-	- - -
B-57A Canberra NASA 218	B-57A Canberra NASA 218		B-57A-218	PARD	B-57	52-1418	NASA 218	- - -
WB-57B Canberra S/N 52-1502/3/4/6	WB-57B Canberra S/N 52-1502/3/4/6	-	B-57B-502	USAF	B-57	52-150x	-	- - -
WB-57C Canberra S/N 53-3832 and 53-3944	WB-57C Canberra S/N 53-3832 and 53-3944	-	B-57C	USAF	B-57	53-3832/3944	-	- - -
WB-57C Canberra S/N 53-3832 and 53-3944	WB-57C Canberra S/N 53-3832 and 53-3944	-	B-57C-832	USAF	B-57	53-3832	-	- - -
WB-57C Canberra S/N 53-3832 and 53-3944	WB-57C Canberra S/N 53-3832 and 53-3944	-	B-57C-944	USAF	B-57	53-3944	-	- - -
B-58 Hustler S/N 55-660?	B-58 Hustler S/N 55-660?		B-58-660	USAF/CONV	B-58	55-660	-	- - -

IV.1.29.1 B-1B Lancer, unknown S/N

Rockets used: SRAM

Updated: 2025 Jul 16 0237:18

Launches: B-1B

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1987 Jan 16	SRAM	-	-	B-1B	B-1B Lancer, unknown S/N	TTR	RW13/42	TTR	LP1	116.8W 37.8N (+/- 0.0)	10.0
1987 Jun 3	SRAM	-	-	B-1B	B-1B Lancer, unknown S/N	DYESS	RW16/34	TTR	LP1	116.8W 37.8N (+/- 0.0)	10.0

IV.1.29.2 B-29 or B-50 Superfortress, unknown S/N

The X-7A-1 missile was launched from two airplanes: the B-29B-60-BO S/N 44-84073 (my code B-29-073) and the B-29-55-BO S/N 44-86402 (my code B-29-402). We don't know which missile was dropped by which plane, so the generic B-29 code is used for each of the launches.

Rockets used: X-7A-1

Updated: 2025 Jul 16 0237:18

Launches: B-29

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1951 Nov	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1952 Dec 17	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1953 Feb 2	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1953 Apr 8	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1953 Sep 12	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1953 Dec 8	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Jan 26	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Feb 24	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Jun 8	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Sep 23	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Oct 21	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Nov 24	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Dec 14	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1954 Dec 21	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Jan 18	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Feb 1	X-7A-1	-	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Feb 24	X-7A-1	ST-30 TV14	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Apr 7	X-7A-1	ST-31	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Apr 29	X-7A-1	32	-	B-29	B-29 or B-50 Superfortress, unknown S/N	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0

IV.1.29.3 B-29B-60-BO Superfortress S/N 44-84073

Credit: Unk

Rockets used: X-7A-1

Updated: 2025 Jul 16 0237:18

Launches: B-29-073

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1951 Apr 26	X-7A-1	-	-	B-29-073	B-29B-60-BO Superfortress S/N 44-84073	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0

IV.1.29.4 B-29-55-BO Superfortress S/N 44-86402

Credit: Unk

IV.1.29.5 DB-47E-60-BW Stratojet S/N 51-5220

Credit: Unk

The Bold Orion launches were dropped over the Atlantic Missile Range from a B-47E Stratojet based at Eglin. Its serial number is 51-5220 according to www.joebaugher.com

Rockets used: Bold Orion

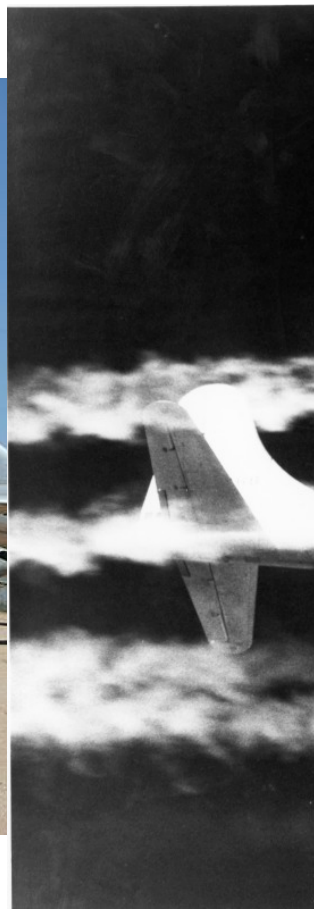
Updated: 2025 Jul 16 0237:18

Launches: B-47E-220

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 May 26	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	8.0
1958 Jun 27	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	12.0
1958 Jul 18	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1958 Sep 25	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1958 Oct 10	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1958 Nov 17	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1958 Dec 8	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	11.0
1958 Dec 16	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	200.0
1959 Apr 4	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	200.0
1959 Jun 8	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1959 Jun 19 1530	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1959 Oct 13 0900	Bold Orion	-	-	B-47E-220	DB-47E-60-BW Stratojet S/N 51-5220	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	200.0

IV.1.29.6 JTB-50D-80-BO Superfortress S/N 48-0068

Credit: Unk



Credit: Unk

The B-50 Superfortress was an improved derivative of the B-29. B-50D no. 58-0068 was used at White Sands for X-7A3 launches. The picture shows a different B-50D; let me know if you have one of 58-0068.

A different B-50 was used at Edwards for X-1 launches. (6004?)

Rockets used: X-7A-3,X-7B

Updated: 2025 Jul 16 0237:18

Launches: B-50D-068

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1955 May 24	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Jun 3	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Jun 21	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Jul 14	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Aug 11	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Aug 25	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 7	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 9	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 12	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 20	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 27	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Sep 30	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Oct 13	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Oct 18	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Oct 28	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Nov 9	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Nov 18	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 1	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 6	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 8	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 13	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 20	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 22	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1955 Dec 23	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Jan 13	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Feb 10	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Mar 9	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Mar 21	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Jul 31	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Aug 18	X-7B	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Aug 18	X-7B	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Aug 18	X-7B	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Aug 18	X-7B	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Oct 18	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Oct 31	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Nov 9	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Nov 30	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Dec 6	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1956 Dec 21	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1960 Jul 20	X-7A-3	-	-	B-50D-068	JTB-50D-80-BO Superfortress S/N 48-0068	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0

IV.1.29.7 B-52G/H Stratofortress

Credit: Unk

This code covers various B-52G and B-52H aircraft used for SRAM test launches. The aircraft took off from a variety of bases and launched their missiles over the Atlantic off Cape Canaveral.

The SRAM missiles were low altitude rockets and are included here mainly to complete the Cape Canaveral launch list.

SRAM missiles were also launched by the FB-111 and later by the B-1B.

B-52G 57-6518 was used for the 1971 Jul 22 flight at White Sands.

Rockets used: SRAM

Updated: 2025 Jul 16 0237:18

Launches: B-52GH

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1969 Jul 29	SRAM	-	-	B-52GH	B-52G/H Stratofortress	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1971 Jul 22	SRAM	-	-	B-52GH	B-52G/H Stratofortress	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1972 Jun 15	SRAM	-	-	B-52GH	B-52G/H Stratofortress	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1974 Aug 20 1109	SRAM	BULLET BLAST	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 Mar 25 1101	SRAM	BULLET BLITZ II-1	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 May 12 1124	SRAM	BULLET BLITZ II-3	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 May 12 1154	SRAM	BULLET BLITZ II-4	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 Nov 13 1316	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 Nov 14 1230	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 Nov 24 1315	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1977 Apr 14 1159	SRAM	-	-	B-52GH	B-52G/H Stratofortress	ELLS	RW13/31	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1977 Dec 14 1254	SRAM	-	-	B-52GH	B-52G/H Stratofortress	BARK	RW15/33	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1978 Mar 1 1200	SRAM	-	-	B-52GH	B-52G/H Stratofortress	ROBI	RW15/33	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1978 Jul 20 1149	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GF	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1978 Dec 13 1158	SRAM	-	-	B-52GH	B-52G/H Stratofortress	WURT	RW07/25	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Feb 7 1157:09	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GFX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Nov 28 1201:28	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GFX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1980 Feb 6 1201:42	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GFX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1980 Jun 22	SRAM	-	-	B-52GH	B-52G/H Stratofortress	KMR	-	KMR	-	167.7E 9.0N (+/- 0.0)	10.0
1983 Jun 22 1058:41	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GFX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1983 Jul 26 1129:54	SRAM	-	-	B-52GH	B-52G/H Stratofortress	GFX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0

IV.1.29.8 FB-111

Rockets used: SRAM

Updated: 2025 Jul 16 0237:18

Launches: FB-111

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1970 May 20	SRAM	-	-	FB-111	FB-111	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	10.0
1974 Dec 6	SRAM	BULLET BLAST	-	FB-111	FB-111	TTR	RW13/42	TTR	LP1	116.8W 37.8N (+/- 0.0)	10.0
1975 Apr 21 1235	SRAM	BULLET BLITZ II-2	-	FB-111	FB-111	PLATT	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 May 23 1135	SRAM	BULLET BLITZ II-5	-	FB-111	FB-111	PLATT	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1975 May 23 1158	SRAM	BULLET BLITZ II-6	-	FB-111	FB-111	PLATT	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1976 Apr 14 1201	SRAM	-	-	FB-111	FB-111	PLATT	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1976 Apr 14 1221	SRAM	-	-	FB-111	FB-111	PLATT	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1976 Dec 14 1200	SRAM	-	-	FB-111	FB-111	PLATT	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1976 Dec 14 1220	SRAM	-	-	FB-111	FB-111	PLATT	RW17/35	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Jan 17 1252:41	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Jan 19 1159:20	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Jan 19 1229:38	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Dec 12 1159:36	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1979 Dec 12 1225:12	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1980 Nov 5 1207:49	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0
1981 Dec 9 1200:52	SRAM	-	-	FB-111	FB-111	PLATX	-	ETR	GTIDZ	79.0W 28.5N (+/- 2.0)	10.0

IV.1.29.9 B-52G Stratofortress S/N 57-6473

Credit: Unk

Credit: Unk

Steve Pace, in his book X-Planes over Edwards, reports that B-52G 57-6473 was used for Skybolt captive trials at Edwards because the B-52H was not mature enough. Other reports suggest there was a single B-52G used for trials, although B-52H planes were photgraphed carrying dummy Skybolts. Records confirm at least 3 of the 5 launches were by a B-52G, but do not give a serial number. I will assume that 473 was used for all the actual Skybolt launches in Florida, staged from Eglin. One photo of the first launch shows a blurry tail number that appears consistent with '6473'.

Two RAF Vulcans were also used for captive trials but never made a live launch

Rockets used: Skybolt ALBM

Updated: 2025 Jul 16 0237:18

Launches: B-52G-473

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Apr 19 2103	Skybolt ALBM	PL.1	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	78.0
1962 Jun 29	Skybolt ALBM	PL.2	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	12.0
1962 Sep 13	Skybolt ALBM	PL.3	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	10.0
1962 Sep 25 1409	Skybolt ALBM	PL.4	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	100.0
1962 Nov 28 1845	Skybolt ALBM	GL.1	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	10.0
1962 Dec 22 1415	Skybolt ALBM	GL.2	-	B-52G-473	B-52G Stratofortress S/N 57-6473	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	580.0

IV.1.29.10 B-52H Stratofortress, unknown S/N

Rockets used: ARRW

Updated: 2025 Jul 16 0237:18

Launches: B-52H

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2022 Jul 12	ARRW	Booster Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	10.0
2022 Dec 9	ARRW	Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	10.0
2023 Mar 13	ARRW	Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	10.0
2023 Aug 19	ARRW	Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	20.0
2023 Oct 12	ARRW	Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	20.0
2024 Mar	ARRW	Test	AGM-183A	B-52H	B-52H Stratofortress, unknown S/N	GUAMA	-	KMR	-	167.7E 9.0N (+/- 0.0)	20.0

IV.1.29.11 B-52H Stratofortress S/N 60-0021 or 60-0036

Credit: [credit unknown]

Rockets used: D-21B

Updated: 2025 Jul 16 0237:18

Launches: B-52H-T

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1967 Sep 28	D-21B	Accidental launch	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	A51	X1	115.8W 37.2N (+/- 0.1)	10.0
1967 Nov 6	D-21B	Initial Test Series 1	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	WTR	LP6	119.0W 33.0N (+/- 3.0)	26.0
1967 Dec 2	D-21B	Initial Test Series 2	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	WTR	LP6	119.0W 33.0N (+/- 3.0)	26.0
1968 Jan 19	D-21B	Initial Test Series 3	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	WTR	LP6	119.0W 33.0N (+/- 3.0)	26.0
1968 Apr 30	D-21B	Initial Test Series 4	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	WTR	LP6	119.0W 33.0N (+/- 3.0)	26.0
1968 Jun 16 1934	D-21B	Initial Test Series 5	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	WTR	LP6	119.0W 33.0N (+/- 3.0)	27.0
1968 Jul 1 1700	D-21B	Capt Hook I	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	KAU	LP4	159.8W 22.1N (+/- 0.0)	26.0
1968 Aug 28	D-21B	Capt Hook II	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	KAU	LP4	159.8W 22.1N (+/- 0.0)	26.0
1968 Dec 15	D-21B	Capt Hook III	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	KAU	LP4	159.8W 22.1N (+/- 0.0)	26.0
1969 Feb 11	D-21B	Capt Hook IV	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	A51	RW14/32	KAU	LP4	159.8W 22.1N (+/- 0.0)	26.0
1969 May 10 2202	D-21B	Capt Hook V	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	BEALE	RW15/33	KAU	LP4	159.8W 22.1N (+/- 0.0)	29.0
1969 Jul 10 2156	D-21B	Capt Hook VI	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	BEALE	RW15/33	KAU	LP4	159.8W 22.1N (+/- 0.0)	28.0
1969 Nov 10	D-21B	SENIOR BOWL 02	South China op test	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	GUAMA	RW06L/24R	PHLDZ	-	118.0E 12.0N (+/- 2.0)	26.0
1970 Feb 20	D-21B	LONG DRIVE	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	BEALE	RW15/33	KAU	LP4	159.8W 22.1N (+/- 0.0)	29.0
1970 Dec 17 0004	D-21B	SENIOR BOWL 04	South China	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	GUAMA	RW06L/24R	PHLDZ	-	118.0E 12.0N (+/- 2.0)	26.0
1971 Mar 4	D-21B	SENIOR BOWL	-	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	GUAMA	RW06L/24R	PHLDZ	-	118.0E 12.0N (+/- 2.0)	26.0
1971 Mar 20	D-21B	SENIOR BOWL	Lop Nor, shot down	B-52H-T	B-52H Stratofortress S/N 60-0021 or 60-0036	GUAMA	RW06L/24R	PHLDZ	-	118.0E 12.0N (+/- 2.0)	26.0

IV.1.29.12 B-52H Stratofortress S/N 60-0021

Credit: Lockheed Martin

IV.1.29.13 B-52H Stratofortress S/N 60-0024?

Credit: [credit unknown]

Rockets used: X-51A

Updated: 2025 Jul 16 0237:18

Launches: B-52H-024

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2013 May 1 1755	X-51A	-	-	B-52H-024	B-52H Stratofortress S/N 60-0024?	EAFB	RW04/22	WTR	LP10	119.0W 33.0N (+/- 3.0)	16.0

IV.1.29.14 B-52H Stratofortress S/N 60-0031?

Credit: [credit unknown]

Credit: [credit unknown]

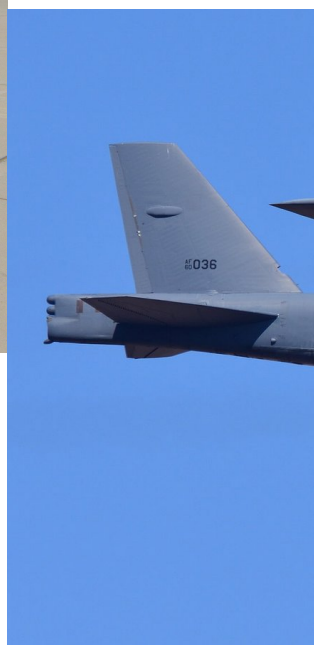
Rockets used: X-51A

Updated: 2025 Jul 16 0237:18

Launches: B-52H-031

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2011 Jun 13	X-51A	-	-	B-52H-031	B-52H Stratofortress S/N 60-0031?	EAFB	RW04/22	WTR	LP10	119.0W 33.0N (+/- 3.0)	16.0

IV.1.29.15 B-52H Stratofortress S/N 60-0036



Credit: [credit unknown]

Rockets used: ARRW

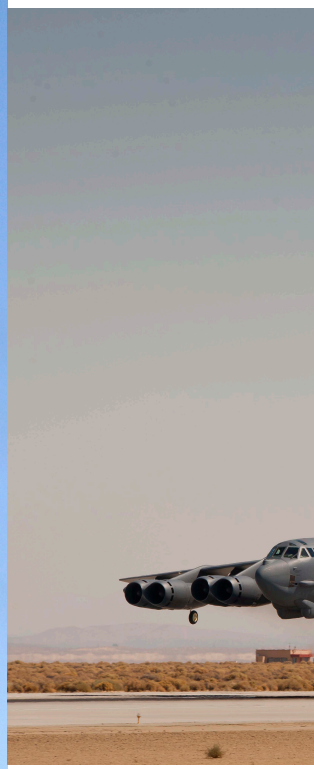
Updated: 2025 Jul 16 0237:18

Launches: B-52H-036

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2021 Jul 28	ARRW	BTV-1b	AGM-183A	B-52H-036	B-52H Stratofortress S/N 60-0036	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	10.0

IV.1.29.16 B-52H Stratofortress S/N 60-0050

Credit: [credit unknown]



Credit: [credit unknown]

Rockets used: X-51A,ARRW

Updated: 2025 Jul 16 0237:18

Launches: B-52H-050

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2010 May 26 1710	X-51A	-	-	B-52H-050	B-52H Stratofortress S/N 60-0050	EAFB	RW04/22	WTR	LP10	119.0W 33.0N (+/- 3.0)	19.0
2012 Aug 14 1835	X-51A	-	-	B-52H-050	B-52H Stratofortress S/N 60-0050	EAFB	RW04/22	WTR	LP10	119.0W 33.0N (+/- 3.0)	16.0
2022 May 14	ARRW	Booster test	AGM-183A	B-52H-050	B-52H Stratofortress S/N 60-0050	EAFB	-	PM	-	119.1W 34.1N (+/- 0.0)	10.0

IV.1.29.17 NB-52 Stratofortress (S/N 003 or 008)

Rockets used: X-15

Updated: 2025 Jul 16 0237:18

Launches: NB-52

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Nov 4	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	14.0
1961 Feb 21	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1961 Feb 24	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1961 Oct 27	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1961 Nov 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1961 Nov 3	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1962 Apr 18	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1962 Apr 25	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	14.0
1962 Apr 26	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	14.0
1962 Apr 27	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1962 May 25	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	14.0
1962 May 29	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	14.0
1962 Aug 1	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1963 Jul 3	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1963 Jul 17	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1963 Oct 4	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1963 Oct 14	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1963 Oct 25	X-15	Sharp Upper Vert.	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1963 Nov 19	X-15	Checkout	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1963 Dec 3	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1963 Dec 18	X-15	Opt Deg	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1964 Mar 17	X-15	Optical Degradation	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1964 Mar 31	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1964 May 11	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1964 Jun 11	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1964 Jun 15	X-15	Carry Test	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1964 Jun 23	X-15	Stability	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	14.0
1964 Jul 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1964 Jul 28	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	14.0
1964 Sep 23	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1964 Oct 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	14.0
1964 Oct 29	X-15	Gear mod check	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1964 Nov 6	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1964 Nov 16	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1964 Dec 4	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Jan 26	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Feb 15	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1965 Feb 15	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	EAFB	ROS A	117.8W 34.9N (+/- 0.1)	14.0
1965 Feb 19	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Feb 25	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 May 11	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1965 May 13	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1965 Jun 4	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1965 Jun 8	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1965 Jun 11	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1965 Jul 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Jul 13	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Jul 23	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Jul 27	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Jul 28	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Aug 20	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Aug 24	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Oct 8	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1965 Nov 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Apr 13	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0

Launches: NB-52

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Apr 20	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0
1966 May 5	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0
1966 Jun 2	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1966 Jun 10	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1966 Jun 20	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Jun 27	X-15	External Tank Test	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	CUD	-	117.3W 35.2N (+/- 0.1)	14.0
1966 Jul 13	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Jul 20	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1966 Aug 9	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1966 Aug 10	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1966 Sep 13	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1966 Sep 28	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Oct 4	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Oct 7	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0
1966 Oct 19	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0
1966 Nov 18	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Nov 23	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1966 Dec 22	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	CUD	-	117.3W 35.2N (+/- 0.1)	14.0
1967 Mar 15	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1967 Mar 21	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1967 Apr 20	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1967 May 5	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	14.0
1967 May 12	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	SIL	B	115.8W 35.5N (+/- 0.1)	14.0
1967 May 25	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	14.0
1967 Jun 1	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	14.0
1967 Jun 14	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	14.0
1967 Aug 7	X-15	Ramjet flow	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	14.0
1967 Aug 11	X-15	Ramjet flow	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	14.0
1967 Aug 16	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	14.0
1967 Sep 22	X-15	-	-	NB-52	NB-52 Stratofortress (S/N 003 or 008)	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	14.0

IV.1.29.18 NB-52A Stratofortress S/N 003

Credit: [credit unknown]

Rockets used: X-15

Updated: 2025 Jul 16 0237:18

Launches: NB-52-003

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1959 Mar 10 1750	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS D	117.8W 34.9N (+/- 0.1)	11.0
1959 Apr 1	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS D	117.8W 34.9N (+/- 0.1)	11.0
1959 Apr 10 1624	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS D	117.8W 34.9N (+/- 0.1)	11.0
1959 May 21	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS D	117.8W 34.9N (+/- 0.1)	11.0
1959 Jun 8 1538:40	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS D	117.8W 34.9N (+/- 0.1)	11.0
1959 Jul 24	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	14.0
1959 Sep 4 1323	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	14.0
1959 Sep 17 1508:48	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	15.0
1959 Oct 10	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1959 Oct 14	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1959 Oct 17 1813:07	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	18.0
1959 Oct 22	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1959 Oct 31	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1959 Nov 5 1739:28	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	13.0
1960 Apr 13 1715:11	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 Apr 19 1651:44	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	18.0
1960 May 6 1653:19	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	18.0
1960 May 12 1547:37	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1960 May 19 1546:47	X-15	Alt Buildup	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	33.0
1960 May 27	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Jun 3	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Jun 8	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Aug 4 1559:13	X-15	Aero Heating	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1960 Aug 11	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Aug 12 1548:43	X-15	High Alt	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	41.0
1960 Aug 18	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Aug 19 1534:22	X-15	Aero Heating	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1960 Nov 15 1759:00	X-15	XLR-99 Checkout	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	24.0
1960 Nov 17 2043:07	X-15	Aero Heating	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	16.0
1960 Nov 22 2125:55	X-15	XLR-99, BCS	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	18.0
1960 Dec 6 2329:30	X-15	XLR-99, BCS	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	EAFB	ROS B	117.8W 34.9N (+/- 0.1)	16.0
1961 Apr 21 1805:17	X-15	Mach 4, Aero	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A1	116.0W 36.0N (+/- 0.0)	32.0
1961 May 19	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1961 May 25 1916:35	X-15	Mach 5, SAS, Aero	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	32.0
1961 Jun 23 2100:05	X-15	Mach 5, Aero, Stab.	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	32.0
1961 Aug 10 1727:05	X-15	XLR-99, beta-dot	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1961 Sep 29	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1961 Oct 3 1840:50	X-15	VO Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1961 Oct 11 2020:00	X-15	Alt, Aero, Low q	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	66.0
1961 Oct 17 1857:33	X-15	Mach 5, Aero, Stab	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	33.0
1961 Dec 19	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1961 Dec 20 2245:50	X-15	MH-96	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	24.0
1962 Jan 10 2028:16	X-15	High alpha, Aero	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	13.0
1962 Jan 17 2000:34	X-15	MH-96. Mach 5	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	40.0
1962 Mar 29	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1962 Mar 30	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1962 Mar 31	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	14.0
1962 Apr 5 1804:25	X-15	MH-96	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	54.0
1962 Apr 19 1802:20	X-15	ASAS, alpha 20, M=5	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	46.0
1962 May 2	X-15	Eglin Demo	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	-	-	117.8W 34.9N (+/- 0.1)	14.0
1962 May 5	X-15	Eglin Demo	-	NB-52-003	NB-52A Stratofortress S/N 003	EGL	RW12/30	-	-	86.7W 30.4N (+/- 0.0)	14.0
1962 May 5	X-15	Eglin Demo	-	NB-52-003	NB-52A Stratofortress S/N 003	ALT	RW17R/35L	-	-	99.3W 34.7N (+/- 0.1)	14.0
1962 May 22 1704:46	X-15	Local flow	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	30.0
1962 Jun 7 1729:20	X-15	Local flow, M=5	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A4	116.0W 36.0N (+/- 0.0)	31.0
1962 Jun 27 2008:10	X-15	High alpha, Mach 6	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	37.0

Launches: NB-52-003

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1962 Jul 10	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	-	117.2W 39.5N (+/- 0.0)	14.0
1962 Jul 11	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	-	117.2W 39.5N (+/- 0.0)	14.0
1962 Jul 16	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	14.0
1962 Jul 17 1631:10	X-15	MH-96 Demo	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	95.0
1962 Jul 26 1822:30	X-15	Aero stab. and drag	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	30.0
1962 Aug 2 1656:15	X-15	MH-96 fixed gain	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	44.0
1962 Aug 10	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	14.0
1962 Aug 14 1741:35	X-15	Const Theta Entry	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	59.0
1962 Oct 9 1758:32	X-15	VO Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	39.0
1963 May 15 1750:46	X-15	Opt Deg/Trav Probe	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	37.0
1963 Jun 25 1653:50	X-15	Opt Deg/Trav Probe	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	34.0
1963 Jul 18 1707:20	X-15	VO Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	31.0
1963 Aug 22 1705:57	X-15	VO,Spectrom,Photom	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	108.0
1964 Feb 19 1757:24	X-15	SUV,Boundary Layer	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	23.0
1964 Mar 13 1746:27	X-15	SUV,Boundary Layer	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	23.0
1964 Mar 27 1810:18	X-15	Optical Degradation	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	30.0
1964 Apr 8 1802:27	X-15	Opt Deg/Alt Build	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	53.0
1964 Apr 29 1700:27	X-15	Opt Deg/Att Indic.	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	31.0
1964 May 12 1651:46	X-15	SUV/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	22.0
1964 May 19 1726:28	X-15	Opt Deg/Alt Build	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	59.0
1964 May 21 1639:34	X-15	SUV/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	C	115.8W 35.5N (+/- 0.1)	19.0
1964 Jun 25 1634:47	X-15	Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	25.0
1964 Jun 30 1649:40	X-15	Opt Deg/Alt Build	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	30.0
1964 Jul 8 2002:52	X-15	Hor Scan/MH-96	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	51.0
1964 Jul 29 1855:19	X-15	Heat tran/Local Flow	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	23.0
1964 Aug 12 1712:33	X-15	Heat tran/LF/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	24.0
1964 Aug 14 1654:19	X-15	Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	31.0
1964 Aug 26 1742:07	X-15	HT/LF/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	27.0
1964 Sep 3 1654:54	X-15	HT/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	23.0
1964 Sep 28 2016:00	X-15	MA-45R TPS, BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	29.0
1964 Dec 10 1910:26	X-15	IFDS/MIT/Air Den	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	34.0
1964 Dec 22 1844:52	X-15	Friction,GE TPS.,3D	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	24.0
1965 Jan 13 1851:06	X-15	3D,HT,Fric,BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	30.0
1965 Jun 16 1726:33	X-15	Radiometer/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	74.0
1965 Jul 8 1616:55	X-15	ST,Landing,Alt	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	64.0
1965 Aug 10 1824:21	X-15	Northrop Scan,BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1A	114.9W 37.4N (+/- 0.0)	82.0
1965 Aug 25 1654:46	X-15	MIT Scan,Stability	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	65.0
1965 Sep 22 1758:39	X-15	IR Scan	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	30.0
1965 Sep 28 1707:37	X-15	N.Scan/BLN/Tail	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1A	114.9W 37.4N (+/- 0.0)	90.0
1965 Sep 30 1643:55	X-15	IR Scan	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	23.0
1965 Oct 14 1946:32	X-15	MIT,Pace transducer	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	81.0
1965 Oct 27 1749:10	X-15	N.Scan/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1A	114.9W 37.4N (+/- 0.0)	72.0
1965 Nov 3 1709:10	X-15	External Tank Test	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	CUD	-	117.3W 35.2N (+/- 0.1)	21.0
1966 May 6 2030:12	X-15	AD/MuMet/Scan/SB	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	20.0
1966 May 18 1724:00	X-15	V-On Stab	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	30.0
1966 Jul 12 1832:15	X-15	Checkout, Systems	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	39.0
1966 Jul 18 1838:24	X-15	Checkout, Systems	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	29.0
1966 Jul 21 1902:03	X-15	Alt,ST,Abl TPS	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	58.0
1966 Aug 11 1644:13	X-15	HS,MuMet,SB,Gas	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	76.0
1966 Aug 12 1725:33	X-15	ST,Pitot,Base drag	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	70.0
1966 Aug 19 1704:35	X-15	BLN,OBE,H	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	54.0
1966 Aug 25 1649:11	X-15	HS/MuMet/Gas	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	78.0
1966 Sep 14 1901:29	X-15	MuMet/Solar spec	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	77.0
1966 Oct 6 1916:59	X-15	Checkout	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	23.0
1966 Nov 1 2124:12	X-15	MuMet/DCR/SB	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	93.0

Launches: NB-52-003

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Nov 29 1938:32	X-15	Checkout	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	28.0
1967 Mar 22 1752:04	X-15	Stab./Loads/ASAS	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	40.0
1967 Apr 28 1723:32	X-15	WTR/HS/E loads	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	50.0
1967 May 17 1745:48	X-15	Telem/HT/Guidance	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SIL	B	115.8W 35.5N (+/- 0.1)	21.0
1967 Jun 15 1809:28	X-15	HS/Stab/WTR	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	69.0
1967 Aug 25 2027:28	X-15	Guid/HT/BLN	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	25.0
1967 Oct 4 1716:54	X-15	UV Plume/Solar/MM	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	76.0
1968 Jul 15	X-15	Fluidic Probe/etc	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	RRV	LP1	116.2W 38.2N (+/- 0.1)	14.0
1968 Jul 16 2223:06	X-15	WTR/HS/SB/FAB/FP	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	RRV	LP1	116.2W 38.2N (+/- 0.1)	67.0
1968 Aug 21 1604:48	X-15	WTR/HS/SB/FAB/FP	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	RRV	LP1	116.2W 38.2N (+/- 0.1)	81.0
1968 Sep 13 1819:23	X-15	WTR/HS/SB/FAB/FP	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	77.0
1968 Oct 24 1702:47	X-15	WTR/HS/FAB/FP	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	77.0
1968 Dec 12	X-15	-	-	NB-52-003	NB-52A Stratofortress S/N 003	EAFB	RW04/22	RRV	LP1	116.2W 38.2N (+/- 0.1)	14.0

IV.1.29.19 NB-52B Stratofortress S/N 008

Credit: [credit unknown]

Rockets used: X-15,Pegasus,Pegasus/HAPS,Hyper X

Updated: 2025 Jul 16 0237:19

Launches: NB-52-008

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1959 Dec 16	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 Jan 24 0017:05	X-15	SAS Eval	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	20.0
1960 Feb 4	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 Feb 11 1815:04	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	26.0
1960 Feb 17 1741:32	X-15	SAS Eval	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	16.0
1960 Mar 17 1631:25	X-15	SAS Eval/Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	16.0
1960 Mar 18	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 Mar 25 2343:23	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 Mar 29 1759:28	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	15.0
1960 Mar 31 1642:05	X-15	SAS Gains	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	15.0
1960 May 5	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS WAL	117.8W 34.9N (+/- 0.1)	14.0
1960 May 26 1608:36	X-15	SAS, High alpha, BCS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	15.0
1960 Sep 2	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	14.0
1960 Sep 10 1845:10	X-15	Stability/Control	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	24.0
1960 Sep 20	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1960 Sep 23 1652:06	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	16.0
1960 Oct 11	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1960 Oct 13	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS C	117.8W 34.9N (+/- 0.1)	14.0
1960 Oct 20 1730:27	X-15	Stability/Control	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	16.0
1960 Oct 28 1743:56	X-15	Stability/Control	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	15.0
1960 Nov 4 2043:33	X-15	Stability/Control	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1960 Nov 30 1842:43	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1960 Dec 9 1952:40	X-15	Ball nose, Stabil.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	15.0
1960 Dec 15	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1961 Jan 11	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	14.0
1961 Feb 1 1847:32	X-15	Ball/side controller	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	PLM	117.8W 34.9N (+/- 0.1)	15.0
1961 Feb 7 2056:10	X-15	Stab./Control	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1961 Mar 7 1828:33	X-15	Mach 4 flight	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SIL	A	115.8W 35.5N (+/- 0.1)	23.0
1961 Mar 21	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A1	116.0W 36.0N (+/- 0.0)	14.0
1961 Mar 30 1805:00	X-15	Alt., BCS, Aero	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A1	116.0W 36.0N (+/- 0.0)	51.0
1961 Jun 20	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1961 Sep 12 2140:17	X-15	Mach 5, Aero, Stab.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	34.0
1961 Sep 28 1750:25	X-15	Mach 5, Heat Trans.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A3	116.0W 36.0N (+/- 0.0)	31.0
1961 Nov 9 1757:17	X-15	Mach 6, Aero, Stab	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	31.0
1962 Apr 20 1926:58	X-15	MH-96, M=5	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	63.0
1962 Apr 30 1723:20	X-15	Alt, Low q, Aero	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	75.0
1962 May 8 1701:28	X-15	Heat T/ASAS/High al.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	21.0
1962 Jun 1 1751:15	X-15	ASAS, 23 alpha, M=5	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	40.0
1962 Jun 12 1904:00	X-15	RCS check, M=5	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	56.0
1962 Jun 21 1647:05	X-15	MH-96 Demo, M=5	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	75.0
1962 Jun 29 1741:47	X-15	Heating rates, notch	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	25.0
1962 Jul 16 2109:25	X-15	Notch/ASAS/Aero drag	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	32.0
1962 Jul 19 1653:45	X-15	Heating rates, drag	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	26.0
1962 Aug 8 1708:35	X-15	Heating, aero drag	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A5	116.0W 36.0N (+/- 0.0)	27.0
1962 Aug 20 1708:40	X-15	Heating, drag, ASAS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A3	116.0W 36.0N (+/- 0.0)	27.0
1962 Aug 29 1736:03	X-15	Heating	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A1	116.0W 36.0N (+/- 0.0)	29.0
1962 Sep 27	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	14.0
1962 Sep 28 1704:55	X-15	Heating, VO Stab	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	20.0
1962 Oct 4 1710:11	X-15	VO Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2A	114.9W 37.4N (+/- 0.0)	34.0
1962 Oct 23 1830:40	X-15	VO Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	41.0
1962 Nov 9 1823:07	X-15	VO Stab, Bound.Layer	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	16.0
1962 Dec 13	X-15	VO Stab, UVP	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	14.0
1962 Dec 14 1844:07	X-15	VO Stab, UVP	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	43.0
1962 Dec 20 1925:04	X-15	VO Stab, MH-96	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	48.0
1963 Jan 17 1859:37	X-15	VO Alt, IR expt	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	82.0

Launches: NB-52-008

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Apr 11 1803:20	X-15	KC-1/APU	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	22.0
1963 Apr 18 2016:17	X-15	HT,Local flow,IR	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	28.0
1963 Apr 25 2204:19	X-15	KC-1	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	32.0
1963 May 2 1659:54	X-15	APU,UVP,IR,flow	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	63.0
1963 May 10	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A4	116.0W 36.0N (+/- 0.0)	14.0
1963 May 14 1911:56	X-15	Heating,UVP,IR	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A4	116.0W 36.0N (+/- 0.0)	29.0
1963 May 29 1743:22	X-15	Aero heating/VO Stab	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	28.0
1963 Jun 18 1734:21	X-15	Alt, UVP, Tail p	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	68.0
1963 Jun 27 1656:03	X-15	Alt/UVP/IR/HorScan	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	86.0
1963 Jul 9 1912:12	X-15	Opt Deg/TravP/RAS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	69.0
1963 Jul 19 1720:05	X-15	VO,UVP,IR,HS,Balloon	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	106.0
1963 Aug 6	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	14.0
1963 Aug 13	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	14.0
1963 Aug 15	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	14.0
1963 Oct 7 1922:56	X-15	Checkout/Opt Deg.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	23.0
1963 Oct 29 1942:34	X-15	Checkout/Opt Deg.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	22.0
1963 Nov 7 1811:14	X-15	Sharp Upper Vert.	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	25.0
1963 Nov 14 1919:21	X-15	CO/Opt Deg/Systems	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	27.0
1963 Nov 27 2017:40	X-15	Checkout	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	27.0
1963 Dec 5 1904:36	X-15	Opt Deg/Sys/Mach 6	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	30.0
1964 Jan 8 2010:31	X-15	SAS Off Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	42.0
1964 Jan 16 1803:30	X-15	Sharp Upper Vert	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	21.0
1964 Jan 28 2011:36	X-15	Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	32.0
1964 Sep 29 2000:13	X-15	Stab.,Star tracker	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	29.0
1964 Oct 15 2015:40	X-15	IFDS/Tip Pod/AD-SB	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	25.0
1964 Oct 30 1751:52	X-15	Gear mod, BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	25.0
1964 Nov 30 2009:32	X-15	Gear mod, Stab,ST	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B2	116.0W 36.0N (+/- 0.0)	26.0
1964 Dec 9 1836:17	X-15	3D Flow Field,MA-45R	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B3	116.0W 36.0N (+/- 0.0)	28.0
1965 Feb 2 2050:14	X-15	MA-25S TPS,MH-96,BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	29.0
1965 Feb 17 1844:59	X-15	Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	29.0
1965 Feb 26 1945:55	X-15	MIT/AirD/Sky Bright	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	46.0
1965 Mar 26 1901:59	X-15	IR Scanner/IFDS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	31.0
1965 Apr 23 1744:16	X-15	HT/Abl TPS/BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	24.0
1965 Apr 28 1926:20	X-15	Landing loads,Stab	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	28.0
1965 May 18 1656:38	X-15	Stab, landing, ST	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	31.0
1965 May 25 1712:07	X-15	IFDS/MIT/RAS Mod	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	54.0
1965 May 28 1643:51	X-15	Radiometer/Scan/BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	63.0
1965 Jun 17 1640:31	X-15	IR Scanner, INS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	33.0
1965 Jun 22 1644:43	X-15	Stability,ST,gear	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	47.0
1965 Jun 29 1721:17	X-15	LaRC Scan,Radiom,BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	85.0
1965 Jul 20 1659:28	X-15	Bound.Layer Noise	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	32.0
1965 Aug 3 1940:05	X-15	RAS,ST,Landing	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	63.0
1965 Aug 6 1641:46	X-15	IR Scan,Stability	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	31.0
1965 Aug 26 1652:12	X-15	Northrop Radiom,BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	73.0
1965 Sep 2 1640:05	X-15	RAS,ST,Landing	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	73.0
1965 Sep 9 1655:50	X-15	IR scan,Abl TPS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	29.0
1965 Sep 14 1701:06	X-15	N.Radiom,BLN	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	72.0
1965 Oct 12 1643:13	X-15	Checkout	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	28.0
1965 Nov 4 1711:31	X-15	Checkout	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	A2	116.0W 36.0N (+/- 0.0)	24.0
1966 Jul 1 1802:36	X-15	External Tank Test	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	13.0
1966 Jul 28 1701:12	X-15	MuMet/HS/SB/RAS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	73.0
1966 Aug 3 1545:26	X-15	ST, Base drag	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	75.0
1966 Aug 4 1654:43	X-15	Heat Tran,BLN,OBE	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	40.0
1966 Aug 30 1651:37	X-15	V-On,Maurer,TPS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	A	117.3W 38.1N (+/- 0.1)	31.0
1966 Sep 8 1739:16	X-15	HS/Elec loads	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	22.0

Launches: NB-52-008

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Nov 18 2124:07	X-15	ET/TPS/Maurer/Mach 6	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	30.0
1967 Apr 26 1920:17	X-15	Telem/HT/Guidance	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SIL	B	115.8W 35.5N (+/- 0.1)	16.0
1967 May 8 1927:38	X-15	Ramjet flow	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	29.0
1967 Jun 22 2157:17	X-15	HT/Telem	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	25.0
1967 Jun 29 1827:51	X-15	WTR/HS/ASAS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	52.0
1967 Jul 20 1711:00	X-15	HT/Guid/Telem	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	25.0
1967 Aug 21 1759:16	X-15	Ramjet/Hycon/TPS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	27.0
1967 Oct 3 2131:50	X-15	TPS/Ramjet/Mach 6.7	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	MUD	B	117.3W 38.1N (+/- 0.1)	31.0
1967 Oct 17 1640:23	X-15	UVPL/Solar/MM	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	85.0
1967 Oct 31	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	14.0
1967 Nov 15 1830:07	X-15	UVPL/Solar/MM/SA TPS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP1	114.9W 37.4N (+/- 0.0)	81.0
1968 Feb 6	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	EAFB	ROS B	117.8W 34.9N (+/- 0.1)	14.0
1968 Feb 7	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	14.0
1968 Feb 27	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	14.0
1968 Mar 1 1928:11	X-15	Checkout	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	HH	B1	116.0W 36.0N (+/- 0.0)	31.0
1968 Mar 28	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	14.0
1968 Apr 4	X-15	-	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	14.0
1968 Apr 4 1802:17	X-15	CO/WTR/SA TPS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	57.0
1968 Apr 26 1951:49	X-15	SA TPS/HS	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	DDL	LP2	114.9W 37.4N (+/- 0.0)	63.0
1968 May 23	X-15	Fixed Alpha Ball/WTR	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	14.0
1968 Jun 12 1531:01	X-15	WTR/SA TPS/HS/FAB	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	SRL	LP1	117.2W 39.5N (+/- 0.0)	67.0
1990 Apr 5 1910:17	Pegasus	Pegsat/USA 55 GLOMR	Pegsat	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	680.0
1991 Jul 17 1733:53	Pegasus/HAPS	Microsat	Microsat 1	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	479.0
1993 Feb 9 1430:34	Pegasus	SCD-1	Orbcomm OXP	NB-52-008	NB-52B Stratofortress S/N 008	KSC	RW15/33	ETR	MFWA	79.0W 28.5N (+/- 2.0)	792.0
1993 Apr 25 1356	Pegasus	Alexis	Alexis	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	861.0
1994 May 19 1703	Pegasus/HAPS	STEP 2	STEP 2	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	824.0
1994 Aug 3 1438	Pegasus	APEX	APEX	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	2551.0
2001 Jun 2 2043:31	Hyper X	X-43A	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	7.0
2004 Mar 27 2159:57	Hyper X	X-43A	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	29.0
2004 Nov 16 2235	Hyper X	X-43A	-	NB-52-008	NB-52B Stratofortress S/N 008	EAFB	RW04/22	WTR	PAWA	119.0W 33.0N (+/- 3.0)	33.0

IV.1.29.20 B-57A Canberra, AFSWC

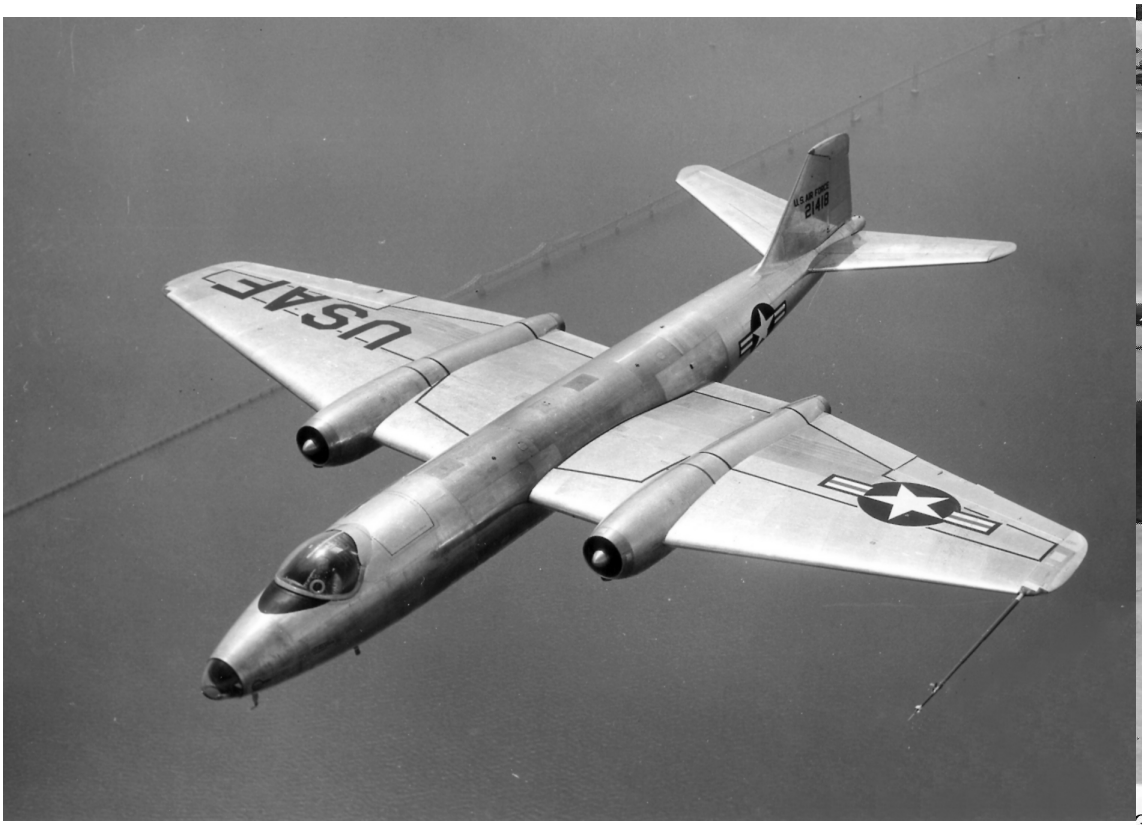
Rockets used: Jaguar

Updated: 2025 Jul 16 0237:19

Launches: B-57A-SWC

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960 Q1?	Jaguar	-	-	B-57A-SWC	B-57A Canberra, AFSWC	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	800.0
1960 Q1?	Jaguar	-	-	B-57A-SWC	B-57A Canberra, AFSWC	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	800.0

IV.1.29.21 B-57A Canberra NASA 218



Credit: [credit unknown]

GURE 314. Lewis technician D

Credit: [credit unknown]

B-57A Canberra USAF S/N 52-1418 was transferred to NASA to become NASA 218. It was based at Wallops Island and used for test rocket launches.

Rockets used: Recruit T55

Updated: 2025 Jul 16 0237:19

Launches: B-57A-218

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Jul 15	Recruit T55	-	-	B-57A-218	B-57A Canberra NASA 218	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	14.0
1958 Jul 24	Recruit T55	-	-	B-57A-218	B-57A Canberra NASA 218	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	14.0
1958 Sep 12	Recruit T55	-	-	B-57A-218	B-57A Canberra NASA 218	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	12.0

IV.1.29.22 WB-57B Canberra S/N 52-1502/3/4/6

Credit: 52-1502, (c) Geoff Goodall 1964

Credit: 52-1504, (c) Kurt Finger

Several B-57B aircraft attached to Kirtland AFB are thought to have carried out Cleansweep IIIB operations: Nos. 52-1502, 52-1503, 52-1504 and 52-1506. In the absence of information about specific flights this code is used to cover all of them.

Rockets used: Cleansweep IIIB

Updated: 2025 Jul 16 0237:19

Launches: B-57B-502

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Oct 20	Cleansweep IIIB	Shrike motor	-	B-57B-502	WB-57B Canberra S/N 52-1502/3/4/6	JI	RW05/23	JI	LP1	169.5W 16.7N (+/- 0.0)	52.0
1965 Dec 20?	Cleansweep IIIB	-	-	B-57B-502	WB-57B Canberra S/N 52-1502/3/4/6	JI	RW05/23	JI	LP1	169.5W 16.7N (+/- 0.0)	50.0
1966	Cleansweep IIIB	-	-	B-57B-502	WB-57B Canberra S/N 52-1502/3/4/6	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	52.0

IV.1.29.23 WB-57C Canberra S/N 53-3832 and 53-3944

Credit: [credit unknown]

Credit: [credit unknown]

Two WB-57C Canberra planes were used for sampling missions; S/N 53-3832 and 53-3944. This code covers both of them.

Rockets used: Cleansweep III,Cleansweep IIIB

Updated: 2025 Jul 16 0237:19

Launches: B-57C

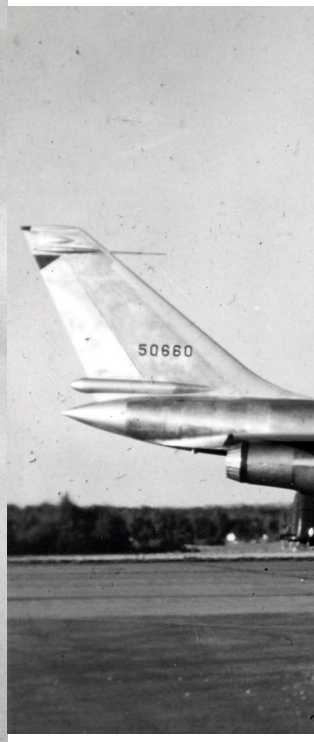
Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963	Cleansweep III	LRL Sampling	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	PM	-	119.1W 34.1N (+/- 0.0)	40.0
1964 Oct 18	Cleansweep III	LRL Sampling	Crosscheck LF1	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	JI	RW05/23	JI	LP1	169.5W 16.7N (+/- 0.0)	40.0
1964 Oct 23	Cleansweep III	LRL Sampling	Crosscheck LF2	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	JI	RW05/23	JI	LP1	169.5W 16.7N (+/- 0.0)	40.0
1967 May 16	Cleansweep IIIB	JTF-8 exercise	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0
1967 May 16	Cleansweep IIIB	-	-	B-57C	WB-57C Canberra S/N 53-3832 and 53-3944	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	50.0

IV.1.29.24 WB-57C Canberra S/N 53-3832 and 53-3944

IV.1.29.25 WB-57C Canberra S/N 53-3832 and 53-3944

IV.1.29.26 B-58 Hustler S/N 55-660?

Credit: [credit unknown]



Credit: [credit unknown]

B-58 S/N 660 awas the first B-58 aircraft. It was used for the High Virgo tests.

The B-58 ALBM Summary Report video, https://www.youtube.com/watch?v=OVtosAjWUvY is the best source for the WS-199C.

Rockets used: High Virgo WS199C

Updated: 2025 Jul 16 0237:19

Launches: B-58-660

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Sep 5	High Virgo WS199C	High Virgo	-	B-58-660	B-58 Hustler S/N 55-660?	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	13.0
1958 Dec 19	High Virgo WS199C	High Virgo	-	B-58-660	B-58 Hustler S/N 55-660?	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	76.0
1959 Jun 4	High Virgo WS199C	High Virgo	-	B-58-660	B-58 Hustler S/N 55-660?	EGL	RW12/30	AMR	LP1	80.0W 28.5N (+/- 1.0)	51.0
1959 Sep 22 1010?	High Virgo WS199C	King Lofus IV	Discoverer 5 intercept	B-58-660	B-58 Hustler S/N 55-660?	EGL	RW12/30	EGL	HV4	86.7W 30.4N (+/- 0.0)	350.0

IV.1.30 US Rocket Launching Aircraft: Military Transports

Updated: 2025 Jul 16 0237:19

US Rocket Launching Aircraft: Military Transports

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
C-5A Galaxy S/N 69-0014	C-5A Galaxy S/N 69-0014		C-5A-014	USAF	C-5	69-0014	-	- - -
C-17 Globemaster III (AMC)	C-17 Globemaster III (AMC)		C-17	USAF	C-17	-	-	- - -
C-17 Globemaster III (EAFB)	C-17 Globemaster III (EAFB)		C-17-E	USAF	C-17	-	-	- - -
C-130 Hercules	C-130 Hercules	-	C-130	NAWC	C-130	-	-	- - -

IV.1.30.1 C-5A Galaxy S/N 69-0014

For the Minuteman Air Mobile Feasibility Test, the C-5A took off from Edwards and made the drop 15 mi (24 km) W of VAFB.

Rockets used: Minuteman 1

Updated: 2025 Jul 16 0237:19

Launches: C-5A-014

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1974 Oct 24	Minuteman 1	Mk 5 RV?	-	C-5A-014	C-5A Galaxy S/N 69-0014	EAFB	RW04/22	WTR	LP12	119.0W 33.0N (+/- 3.0)	6.0

IV.1.30.2 C-17 Globemaster III (AMC)

Image shown is a C-17 from the 535th Airlift Sqn, not necessarily one of the ones used for air-launch.

The C-17 used for airdrops west of Kauai were probably based at Hickam as part of USAF 535th Airlift Sqn.. but environmental assessment reports indicate the air launch flights take off from PMRF (Kauai).

Rockets used: LRALT,SRALT,MRT,E-LRALT,eMRBM,IRBM-T1,MRBM Target,MRBM-T2,MRBM-T3

Updated: 2025 Jul 16 0237:19

Launches: C-17

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2004 May 3 0406	LRALT	LRALT Demo	-	C-17	C-17 Globemaster III (AMC)	KAU	RW16/34	MID	LP1	177.5W 24.8N (+/- 0.2)	300.0
2004 Aug 26	SRALT	USFT-2 Target	CARAVAN-1 Target	C-17	C-17 Globemaster III (AMC)	PM	RW03/21	WTR	LP2	119.0W 33.0N (+/- 3.0)	150.0
2005 Apr 8 1730	MRT	MRT-1 RRF	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	MID	LP3	177.5W 24.8N (+/- 0.2)	500.0
2005 Sep 26	LRALT	COBRA DANE Test	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	MID	LP2	177.5W 24.8N (+/- 0.2)	300.0
2007 Mar 6 0030	SRALT	SRALT?	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	KAU	LP3	159.8W 22.1N (+/- 0.0)	100.0
2008 Jun 26 0216	MRT	MRT-6 (Sep)	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	MID	LP3	177.5W 24.8N (+/- 0.2)	500.0
2009 Jul 22 1945	LRALT	CARAVAN	CARAVAN-2 Target	C-17	C-17 Globemaster III (AMC)	PM	RW03/21	WTR	W1	119.0W 33.0N (+/- 3.0)	500.0
2009 Dec 11	SRALT	MBRV	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	KAU	LP3	159.8W 22.1N (+/- 0.0)	10.0
2011 Jul 9 0204	SRALT	FTX-17	-	C-17	C-17 Globemaster III (AMC)	PM	RW03/21	WTR	LP8	119.0W 33.0N (+/- 3.0)	200.0
2011 Oct 5 0556	SRALT	-	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	MID	LP3	177.5W 24.8N (+/- 0.2)	100.0
2012 Oct 25?	E-LRALT	FTI-01 THAAD Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	WAKE	LP1	166.6E 19.3N (+/- 0.0)	300.0
2013 Sep 10	eMRBM	FTO-01 THAAD Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	WAKE	LP1	166.6E 19.3N (+/- 0.0)	300.0
2015 Jun 26	IRBM-T1	Aegis Ashore Target	MBRV-7?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	0.0
2015 Oct 4	eMRBM	FTO-02E2 Target	MBRV-7?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	WAKE	LP2	166.6E 19.3N (+/- 0.0)	10.0
2015 Nov 1 0305	SRALT	FTO-02E2a Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	WAKE	LP2	166.6E 19.3N (+/- 0.0)	300.0
2015 Dec 10	IRBM-T1	FTO-02E1a Target	MBRV-7?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	300.0
2016 Jan 28 2155?	IRBM-T1	GMD CTV-02+ Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	300.0
2017 Jul 11	IRBM-T1	THAAD FTT-18 Target	MBRV-8?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	300.0
2017 Jul 30	eMRBM	FET-1 Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	NPOR1	LP1	155.0W 35.0N (+/- 5.0)	300.0
2018 Jan 31	eMRBM	FTM-29 Target	IRBM Target	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	WAKE	LP2	166.6E 19.3N (+/- 0.0)	300.0
2018 Dec 10	IRBM-T1	GMD FTI-03 Target	MBRV?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	300.0
2019 Jul 15?	eMRBM	-	CARAVAN-3 Target	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	NPOR1	LP1	155.0W 35.0N (+/- 5.0)	300.0
2019 Jul 22?	eMRBM	-	CARAVAN-3 Target	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	NPOR1	LP1	155.0W 35.0N (+/- 5.0)	300.0
2019 Jul 27?	eMRBM	-	CARAVAN-3 Target	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	NPOR1	LP1	155.0W 35.0N (+/- 5.0)	300.0
2019 Aug 30	eMRBM	-	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	JI	LP3	169.5W 16.7N (+/- 0.0)	300.0
2023 Aug 17	MRBM Target	FTX-26 Target	ICBM Target	C-17	C-17 Globemaster III (AMC)	HICK	-	NPOR1	LP2	155.0W 35.0N (+/- 5.0)	10.0
2023 Dec 11 1438?	IRBM-T1	GMD FTG-12 Target	MBRV?	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	KAU	LP5	159.8W 22.1N (+/- 0.0)	300.0
2024 Feb 8	MRBM-T2	MRBM Target	-	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	KAU	LP6	159.8W 22.1N (+/- 0.0)	300.0
2024 Dec 10	MRBM Target	Guam Test	-	C-17	C-17 Globemaster III (AMC)	GUAMA	-	GUAMA	BOA1	144.9E 13.6N (+/- 0.0)	300.0
2025 Mar 24	MRBM Target	HTV-1	Hypersonic Target Veh.	C-17	C-17 Globemaster III (AMC)	HICK	RW08R/26L	KAU	LP8	159.8W 22.1N (+/- 0.0)	300.0
2025 Jun 24	MRBM-T3	FTX-26a Target	ICBM Target	C-17	C-17 Globemaster III (AMC)	HICK	-	NPOR1	LP2	155.0W 35.0N (+/- 5.0)	300.0

IV.1.30.3 C-17 Globemaster III (EAFB)

This C-17 was operated by the 418th Flight Test Sqn at Edwards AFB. It was used in 2015 together with an AMC C-17 for dual target launches within a few minutes of each other. Serial number is unknown.

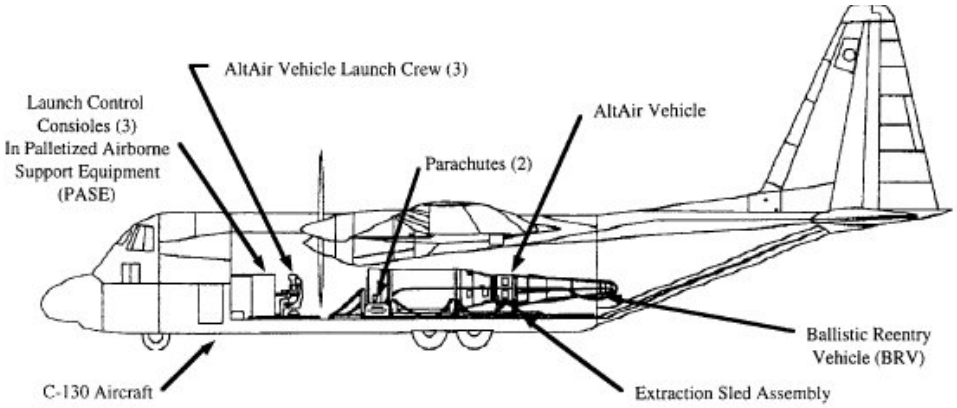
Rockets used: eMRBM

Updated: 2025 Jul 16 0237:19

Launches: C-17-E

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2015 Nov 1 0309:25	eMRBM	FTO-02E2a Target	MBRV-7?	C-17-E	C-17 Globemaster III (EAFB)	HICK	RW08R/26L	PORC1	LP1	177.4E 12.9N (+/- 0.0)	300.0

IV.1.30.4 C-130 Hercules



A C-130 transport was used to deploy an SR-19 missile in the AltAir (HAVE GOLD) demo of 1997. It is not clear whether or not another C-130 launch of an SR-19 based target in 1999 used the same aircraft.

The 1999 launch used a C-130H. The 1997 launch used ‘a Navy-supplied C-130’.

Rockets used: AltAir,SRALT

Updated: 2025 Jul 16 0237:19

Launches: C-130

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1997 Jan 30 2155	AltAir	AltAir (Have Gold)	-	C-130	C-130 Hercules	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	15.0
1999 Mar 31 0015	SRALT	SRALT/MBRV-3	-	C-130	C-130 Hercules	KAU	RW16/34	KAU	LP1	159.8W 22.1N (+/- 0.0)	99.0

IV.1.31 US Rocket Launching Aircraft: Fighters

Updated: 2025 Jul 16 0237:19

US Rocket Launching Aircraft: Fighters

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
F2H-2 Banshee	F2H-2 Banshee	-	F2H2-N	NATC	F2H	-	-	- - -
F2H-2 Banshee S/N 124942	F2H-2 Banshee S/N 124942		F2H2-942	NACA	F2H	124942	-	- - -
F-3B Demon	F-3B Demon	-	F-3B	NMC	F3B	-	-	- - -
F-3B Demon S/N 143484?	F-3B Demon S/N 143484?		F-3B-484	NMC	F3B	143484	-	- - -
F-4B Phantom S/N 149451	F-4B Phantom S/N 149451		F-4B-451	NMC	F4B	149451	-	- - -
F-4C Phantom S/N 63-7654	F-4C Phantom S/N 63-7654		F-4C-654	AFSWC	F4C	63-7654	-	- - -
F4D-1 Skyray S/N 130745	F4D-1 Skyray S/N 130745	-	F-4D-745	NMC	F4D	130745	-	- - -
F4D-1 Skyray S/N 130747	F4D-1 Skyray S/N 130747		F-4D-747	NMC	F4D	130747	-	- - -
F4D-1 Skyray S/N 134856	F4D-1 Skyray S/N 134856		F-4D-856	NMC	F4D	134856	-	- - -
F-4D Phantom	F-4D Phantom	-	F-4D-A	AFSWC	F4D	Unknown	-	- - -
F-4J Phantom S/N 153077	F-4J Phantom S/N 153077		F-4J-077	NATC	F4J	153077	-	- - -
F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	-	F-15D-I	IDF	F-15D	706/714/	-	- - -
F-15D Eagle IAF S/N 701	F-15D Eagle IAF S/N 701		F-15D-701	IDF	F-15D	701	-	- - -
F-15D Eagle IAF S/N 706	F-15D Eagle IAF S/N 706		F-15D-706	IDF	F-15D	706	-	- - -
F-15D Eagle IAF S/N 714	F-15D Eagle IAF S/N 714		F-15D-714	IDF	F-15D	714	-	- - -
F-15D Eagle IAF S/N 715	F-15D Eagle IAF S/N 715		F-15D-715	IDF	F-15D	715	-	- - -
F-86D Sabre, Rockaire program	F-86D Sabre, Rockaire program	-	F-86D	USAF	F-86D	-	-	- - -

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
F-89J Scorpion No. 53-2547	F-89J Scorpion No. 53-2547		F-89J-547	USAF	F-89J	53-2547	-	- - -
F-104A-10-LO Starfighter S/N 56-749	F-104A-10-LO Starfighter S/N 56-749		F-104-749	USAF	F-104	56-749	-	1956 -
F-15 Eagle, ASAT program (084 or 086)	F-15 Eagle, ASAT program (084 or 086)	-	F-15A-08x	USAF	F-15A	76-0084/0086	-	- - -
F-15A Eagle S/N 76-0084, ASAT program.	F-15A Eagle S/N 76-0084, ASAT program.		F-15A-084	USAF	F-15A	76-0084	-	- - -
F-15A Eagle S/N 76-0086, ASAT program.	F-15A Eagle S/N 76-0086, ASAT program.		F-15A-086	USAF	F-15A	76-0086	-	- - -
F4H-1F Phantom II (F-4A-2-MC) S/N 145310	F4H-1F Phantom II (F-4A-2-MC) S/N 145310		F4H-310	NOTS	F-4H	145310	-	- - -
TF4H-1F Phantom II (F-4A-2-MC) S/N 145317	TF4H-1F Phantom II (F-4A-2-MC) S/N 145317	-	F4H-317	NOTS	F-4H	145317	-	- - -
YF4H-1 Phantom II (F-4A-1-MC) S/N 143389	YF4H-1 Phantom II (F-4A-1-MC) S/N 143389	-	F4H-389	NOTS	F-4H	145317	-	- - -
F4H Phantom II, 145317/145310/143389	F4H Phantom II, 145317/145310/143389	-	F4H-N	NOTS	F-4H	145310/17	-	- - -

IV.1.31.1 F2H-2 Banshee

The serial number for the F2H-2 used for the Navy Rockair launches is unknown. However I suspect it may well be the same aircraft, 942, that was used for the later Recruit-T55 heat transfer launches.

Rockets used: Rockair

Updated: 2025 Jul 16 0237:19

Launches: F2H2-N

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1955 Aug 16	Rockair	-	-	F2H2-N	F2H-2 Banshee	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	9.0
1955 Aug 16	Rockair	-	-	F2H2-N	F2H-2 Banshee	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	55.0
1955 Aug 16?	Rockair	-	-	F2H2-N	F2H-2 Banshee	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	50.0
1955 Nov	Rockair	-	-	F2H2-N	F2H-2 Banshee	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	50.0
1955 Nov	Rockair	-	-	F2H2-N	F2H-2 Banshee	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	50.0

IV.1.31.2 F2H-2 Banshee S/N 124942

The Banshee used for Recruit Heat Transfer missions, aircraft 942, launched its payloads off the coast near Wallops. I've assumed it took off from USN Chincoteague (later NASA Wallops Main Base) but it may have been staged from Patuxent River. 942 was a NACA plane rather than a Navy one though, although according to Joe Baugher's site it was assigned to LeRC.

A Banshee was also used for the Navy Rockair launches in 1955. I suspect it was the same aircraft but don't have any evidence to support that guess.

Rockets used: Recruit,Recruit T55

Updated: 2025 Jul 16 0237:19

Launches: F2H2-942

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Nov 6	Recruit	Heat Transfer	-	F2H2-942	F2H-2 Banshee S/N 124942	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	4.0
1957	Recruit T55	Heat Transfer	-	F2H2-942	F2H-2 Banshee S/N 124942	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	4.0
1957 Aug 7	Recruit T55	Heat Transfer	-	F2H2-942	F2H-2 Banshee S/N 124942	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	4.0
1958 Jan 31	Recruit T55	Heat Transfer	-	F2H2-942	F2H-2 Banshee S/N 124942	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	4.0
1958 Mar 28	Recruit T55	-	-	F2H2-942	F2H-2 Banshee S/N 124942	NAOTS	RW04/22	WI	LP1	75.5W 37.8N (+/- 0.0)	4.0

IV.1.31.3 F-3B Demon

The Naval Missile Center used F-3B Demon, F-4D Skyray and F-4B Phantom aircraft to launch the Sparoair I, II and III sounding rockets for various projects. The Sparoair launch list is highly incomplete and it is not always clear which aircraft was used for which launch.

Rockets used: Sparoair I,Sparoair II

Updated: 2025 Jul 16 0237:19

Launches: F-3B

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1960	Sparoair I	-	-	F-3B	F-3B Demon	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	100.0
1961	Sparoair II	Flight 8	-	F-3B	F-3B Demon	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	100.0
1963	Sparoair II	REDGLARE	Comms Test	F-3B	F-3B Demon	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	103.0
1963 Aug 2 0800?	Sparoair I	NITE OWL 1	-	F-3B	F-3B Demon	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	107.0
1964 Jan 18	Sparoair I	NITE OWL 3	-	F-3B	F-3B Demon	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	91.0

IV.1.31.4 F-3B Demon S/N 143484?

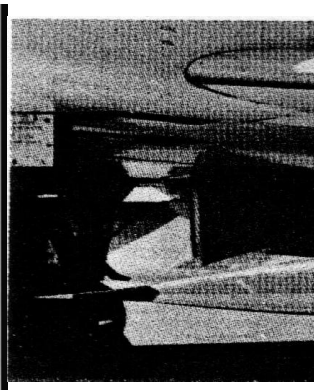
Rockets used: Sparoair I

Updated: 2025 Jul 16 0237:19

Launches: F-3B-484

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1963 Q3?	Sparoair I	NITE OWL 2	-	F-3B-484	F-3B Demon S/N 143484?	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	103.0

IV.1.31.5 F-4B Phantom S/N 149451



Credit: US Navy

The F-4B Phantom was used by the Naval Missile Center for Sparoair III launches. It is thought that only two flights were carried out.

Rockets used: Sparoair III

Updated: 2025 Jul 16 0237:19

Launches: F-4B-451

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1965 Jul 8	Sparoair III	-	-	F-4B-451	F-4B Phantom S/N 149451	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	27.0
1966 May 26	Sparoair III	-	-	F-4B-451	F-4B Phantom S/N 149451	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	30.0

IV.1.31.6 F-4C Phantom S/N 63-7654

Phantom II F-4C 63-7654 was used by the USAF AFSWC (Air Force Special Weapons Center) to launch the ALARR sampler rocket from White Sands in 1966. For ALARR flights in Mar 1967 onwards an F-4D replaced it. Up to that time all flights were from White Sands, but according to Aviation Week (27 Feb 1967 p 40) flights were planned from Howard AFB (Panama Canal Zone), and from Alaska. It is unclear if any such flights were in fact made.

Rockets used: ALARR

Updated: 2025 Jul 16 0237:19

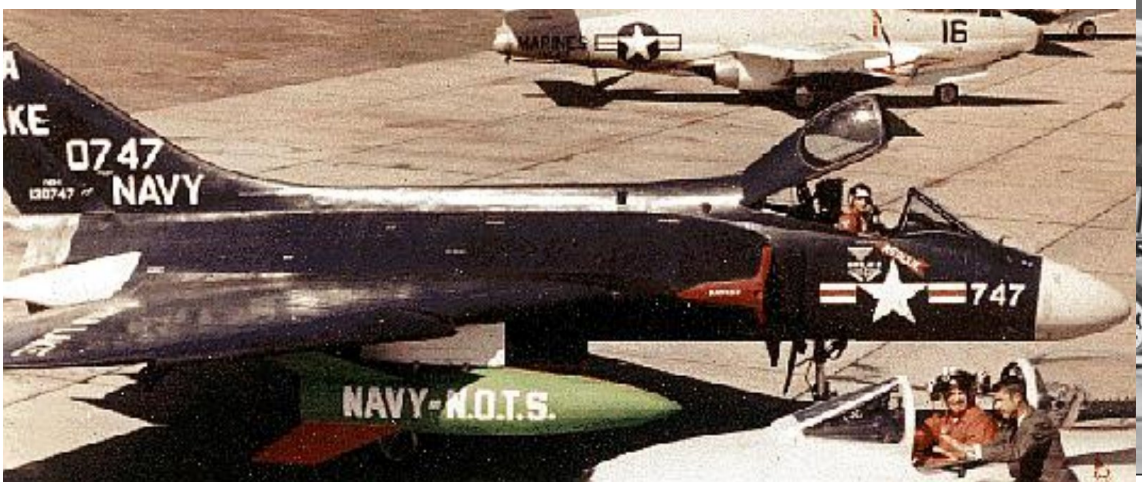
Launches: F-4C-654

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1966 Mar 28	ALARR	-	-	F-4C-654	F-4C Phantom S/N 63-7654	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	46.0
1966 Jul	ALARR	-	-	F-4C-654	F-4C Phantom S/N 63-7654	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	62.0
1966 Nov 17 2015	ALARR	Leonids	-	F-4C-654	F-4C Phantom S/N 63-7654	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1967 Feb	ALARR	-	-	F-4C-654	F-4C Phantom S/N 63-7654	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0

IV.1.31.7 F4D-1 Skyray S/N 130745

F-4D-1 Skyray No. 130745 was to be used for CALEB test flights in 1960; it was wrecked in a fatal accident on Oct 21 but seems to have been used for the Oct 24 flight nevertheless.

IV.1.31.8 F4D-1 Skyray S/N 130747



F-4D-1 Skyray No. 130745 was to be used for CALEB test flights in 1960; it was wrecked in a fatal accident on Oct 21 but seems to have been used for the Jul 28 flight.

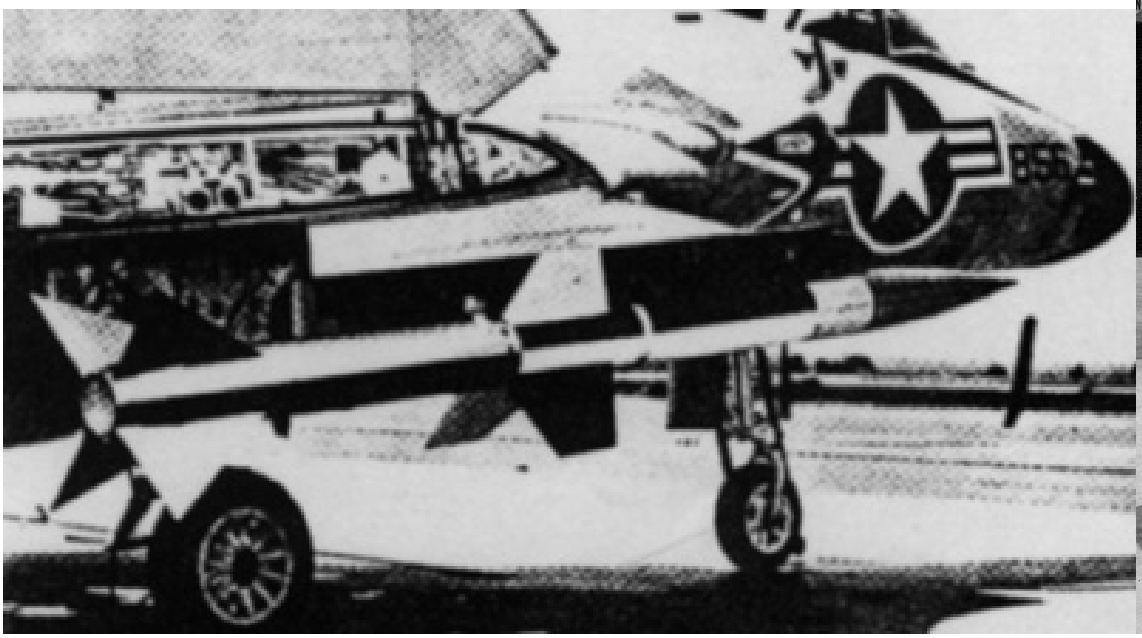
Rockets used: NOTS EV1,NOTS EV2,Sparoair II

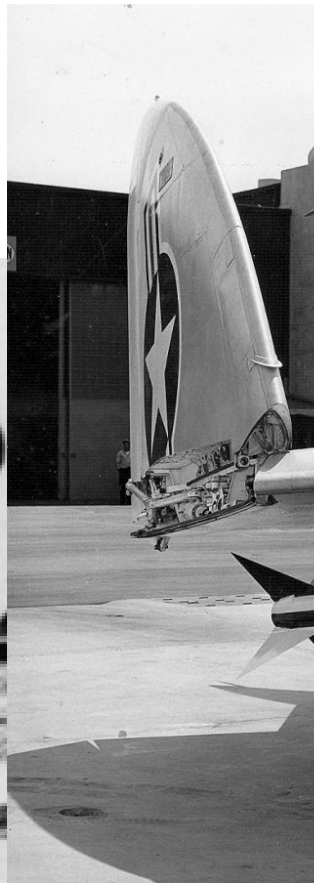
Updated: 2025 Jul 16 0237:19

Launches: F-4D-747

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1958 Jul 25	NOTS EV1	Diagnostic 1	Diagnostic Payload 1	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	12.0
1958 Aug 12	NOTS EV1	Diagnostic 2	Diagnostic Payload 2	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	12.0
1958 Aug 22	NOTS EV1	Diagnostic 3	Diagnostic Payload 3	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	80.0
1958 Aug 25	NOTS EV1	Argus Radiation 1	Radiation Payload 1	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	12.0
1958 Aug 26	NOTS EV1	Argus Radiation 2	Radiation Payload 2	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	12.0
1958 Aug 28	NOTS EV1	Argus Radiation 3	Radiation Payload 3	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP4	119.0W 33.0N (+/- 3.0)	12.0
1960 Jul 28	NOTS EV2	Caleb TV-1	TV-1	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP7	119.0W 33.0N (+/- 3.0)	20.0
1960 Oct 24	NOTS EV2	Caleb TV-2	TV-2	F-4D-747	F4D-1 Skyray S/N 130747	NOTS	RW03/21	WTR	LP7	119.0W 33.0N (+/- 3.0)	20.0
1961?	Sparoair II	-	-	F-4D-747	F4D-1 Skyray S/N 130747	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	100.0

IV.1.31.9 F4D-1 Skyray S/N 134856





Rockets used: Sparoair II

Updated: 2025 Jul 16 0237:19

Launches: F-4D-856

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 Jul 18	Sparoair II	-	-	F-4D-856	F4D-1 Skyray S/N 134856	PM	RW03/21	WTR	LP3	119.0W 33.0N (+/- 3.0)	103.0

IV.1.31.10 F-4D Phantom

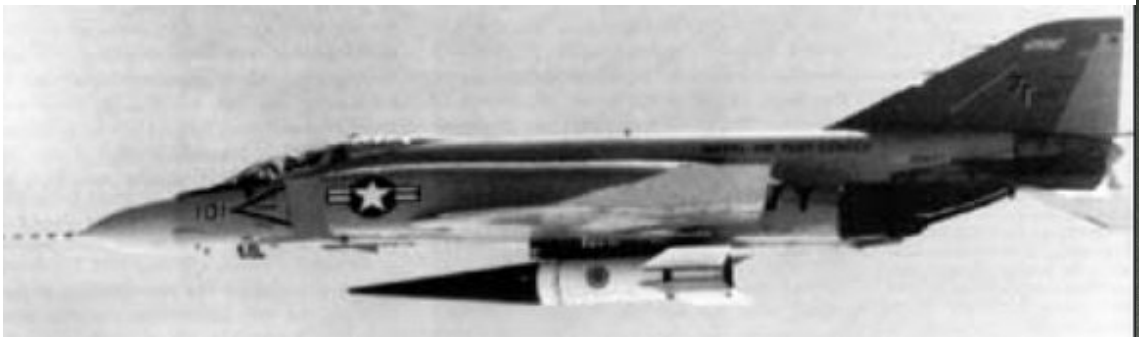
Rockets used: ALARR

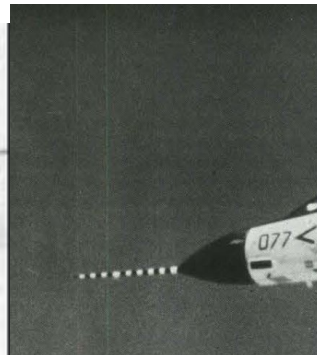
Updated: 2025 Jul 16 0237:19

Launches: F-4D-A

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1968 Apr	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1968 Apr	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1968 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1968 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1968 Nov	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1968 Nov	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 Mar	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 May	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 Sep	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 Sep	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 Sep	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1969 Oct	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0
1970 Apr	ALARR	-	-	F-4D-A	F-4D Phantom	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	100.0

IV.1.31.11 F-4J Phantom S/N 153077





The F-4J S/N 153077 from NATC/Patuxent River was dedicated to the FLAME project and performed launches from Wallops and Tonopah.

The Wallops drops were staged from Patuxent River and the Tonopah ones from China Lake.

Rockets used: Pedro Recruit

Updated: 2025 Jul 16 0237:19

Launches: F-4J-077

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1975 Feb 4 1835	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NATC	RW06/24	WI	LP1	75.5W 37.8N (+/- 0.0)	17.0
1975 Feb 27	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	17.0
1975 Mar 28 2104	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NATC	RW06/24	WI	LP1	75.5W 37.8N (+/- 0.0)	18.0
1975 Apr 18	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	17.0
1975 Jun 3	Pedro Recruit	FLAME	Tungsten nosetip test	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	18.0
1975 Jun 4	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	17.0
1976 Jan 22	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	17.0
1976 Jan 26	Pedro Recruit	FLAME	-	F-4J-077	F-4J Phantom S/N 153077	NOTS	RW03/21	TTR	LP1	116.8W 37.8N (+/- 0.0)	17.0

IV.1.31.12 F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)

Credit: Rafael

Rockets used: Black Sparrow,Blue Sparrow,Silver Sparrow

Updated: 2025 Jul 16 0237:19

Launches: F-15D-I

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	
2000 Sep 14 0900	Black Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	LP1	34.7E 31.9N	(+/- 0.0)
2001 Aug 27	Black Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	LP1	34.7E 31.9N	(+/- 0.0)
2003 Dec 16	Black Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	LP1	34.7E 31.9N	(+/- 0.0)
2005 Dec 2 0827?	Black Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	LP1	34.7E 31.9N	(+/- 0.0)
2007 Feb 11	Black Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	LP1	34.7E 31.9N	(+/- 0.0)
2008 Apr 15	Blue Sparrow	-	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2011 Nov 15	Black Sparrow	Aster 30 Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	CAZ	RW06/24	DGAEML	LP1	1.2W 44.5N	(+/- 0.0)
2012 Feb 10 0900	Blue Sparrow	Radar target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2013 Sep 3 0616	Silver Sparrow	Radar target	Ankor	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2014 Sep 9	Blue Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2014 Dec 16	Silver Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2015 Dec 10 0612	Silver Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2019 Jan 22	Silver Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2020 Aug 12	Silver Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)
2022 Jan 18	Silver Sparrow	Target	-	F-15D-I	F-15D Eagle, Sparrow target program. (Tail 706, 714 and others)	PALB	RW03/21	PALB	MEDR	34.7E 31.9N	(+/- 0.0)

IV.1.31.13 F-15D Eagle IAF S/N 701

IV.1.31.14 F-15D Eagle IAF S/N 706

Credit: Rafael

Rockets used: Black Sparrow

Updated: 2025 Jul 16 0237:19

Launches: F-15D-706

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2017 Jan 25	Black Sparrow	DST-5 Target	David's Sling Target	F-15D-706	F-15D Eagle IAF S/N 706	PALB	RW03/21	PALB	LP1	34.7E 31.9N (+/- 0.0)	20.0

IV.1.31.15 F-15D Eagle IAF S/N 714

IV.1.31.16 F-15D Eagle IAF S/N 715

Credit: J.P. Dewam

Rockets used: Black Sparrow

Updated: 2025 Jul 16 0237:19

Launches: F-15D-715

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2013 Mar 6	Black Sparrow	Aster 30 Target	-	F-15D-715	F-15D Eagle IAF S/N 715	CAZ	RW06/24	DGAEML	LP1	1.2W 44.5N (+/- 0.0)	100.0

IV.1.31.17 F-86D Sabre, Rockaire program

Credit: USAF. Generic F-86D, specific aircraft unknown

Rockets used: Rockaire

Updated: 2025 Jul 16 0237:19

Launches: F-86D

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1956 Dec 13	Rockaire	Rockair 2710	-	F-86D	F-86D Sabre, Rockaire program	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	44.0
1956 Dec 14	Rockaire	-	-	F-86D	F-86D Sabre, Rockaire program	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	42.0
1956 Dec 17	Rockaire	-	-	F-86D	F-86D Sabre, Rockaire program	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	43.0
1956 Dec 19	Rockaire	-	-	F-86D	F-86D Sabre, Rockaire program	HADC	RW07/25	WS	LP1	106.5W 32.4N (+/- 0.1)	45.0

IV.1.31.18 F-89J Scorpion No. 53-2547

F-89J No. 53-2547 took off from Indian Springs AFB on 1957 Jul 19 at 1305 UTC and flew to the Nevada Test Site. It fired a Genie MB-1 missile with a live 1.5 kT W-25 nuclear warhead which at 1400 UTC (0700 PDT) detonated 4.2 km downrange, 6 km above the test site. The plane landed at Indian Springs at 1407. This was Operation PLUMBOB shot JOHN.

Indian Springs (now Creech AFB) has two runways, 13/31 and the large 08/26. My guess is that the larger runway is relatively new and the 1957 flight would have used 13/31.

Rockets used: F89J/Genie

Updated: 2025 Jul 16 0237:19

Launches: F-89J-547

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1957 Jul 19 1400	F89J/Genie	-	-	F-89J-547	F-89J Scorpion No. 53-2547	INSP	RW13/31	NTS	Area 10	116.1W 36.8N (+/- 0.0)	6.0

IV.1.31.19 F-104A-10-LO Starfighter S/N 56-749

Credit: NASA

Rockets used: ALSOR

Updated: 2025 Jul 16 0237:19

Launches: F-104-749

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1959?	ALSOR	Model A (F1)	-	F-104-749	F-104A-10-LO Starfighter S/N 56-749	EAFB	RW04/22	EAFB	LP1	117.8W 34.9N (+/- 0.1)	74.0
1959?	ALSOR	Model A (F2)	-	F-104-749	F-104A-10-LO Starfighter S/N 56-749	EAFB	RW04/22	EAFB	LP1	117.8W 34.9N (+/- 0.1)	117.0
1960 Apr 20	ALSOR	Model A (F4)	-	F-104-749	F-104A-10-LO Starfighter S/N 56-749	EAFB	RW04/22	WTR	LP9	119.0W 33.0N (+/- 3.0)	70.0
1960 Apr 30	ALSOR	Model A (F5)	-	F-104-749	F-104A-10-LO Starfighter S/N 56-749	EAFB	RW04/22	WTR	LP9	119.0W 33.0N (+/- 3.0)	62.0
1961 Jan?	ALSOR	NOTS Viperscan	-	F-104-749	F-104A-10-LO Starfighter S/N 56-749	EAFB	RW04/22	EAFB	LP1	117.8W 34.9N (+/- 0.1)	71.0

IV.1.31.20 F-15 Eagle, ASAT program (084 or 086)

Rockets used: ASAT

Updated: 2025 Jul 16 0237:19

Launches: F-15A-08x

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Nov 13 2017	ASAT	-	-	F-15A-08x	F-15 Eagle, ASAT program (084 or 086)	EAFB	RW04/22	WTR	LP11	119.0W 33.0N (+/- 3.0)	1000.0
1986 Aug 22	ASAT	-	-	F-15A-08x	F-15 Eagle, ASAT program (084 or 086)	EAFB	RW04/22	WTR	LP11	119.0W 33.0N (+/- 3.0)	1000.0
1986 Sep 30 1045?	ASAT	-	-	F-15A-08x	F-15 Eagle, ASAT program (084 or 086)	EAFB	RW04/22	WTR	LP11	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.31.21 F-15A Eagle S/N 76-0084, ASAT program.

Rockets used: ASAT

Updated: 2025 Jul 16 0237:19

Launches: F-15A-084

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1985 Sep 13 2040?	ASAT	Celestial Eagle	-	F-15A-084	F-15A Eagle S/N 76-0084, ASAT program.	EAFB	RW04/22	WTR	LP11	119.0W 33.0N (+/- 3.0)	500.0

IV.1.31.22 F-15A Eagle S/N 76-0086, ASAT program.

Rockets used: ASAT

Updated: 2025 Jul 16 0237:19

Launches: F-15A-086

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1984 Jan 21 1852:30	ASAT	-	-	F-15A-086	F-15A Eagle S/N 76-0086, ASAT program.	EAFB	RW04/22	WTR	LP11	119.0W 33.0N (+/- 3.0)	1000.0

IV.1.31.23 F4H-1F Phantom II (F-4A-2-MC) S/N 145310

IV.1.31.24 TF4H-1F Phantom II (F-4A-2-MC) S/N 145317

IV.1.31.25 YF4H-1 Phantom II (F-4A-1-MC) S/N 143389

Credit: China Lake Alumni

Credit: China Lake Alumni

Rockets used: NOTS EV2

Updated: 2025 Jul 16 0237:19

Launches: F4H-389

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1961 Oct 5 1910	NOTS EV2	Caleb	HI-HOE 1	F4H-389	YF4H-1 Phantom II (F-4A-1-MC) S/N 143389	NOTS	RW03/21	WTR	LP7	119.0W 33.0N (+/- 3.0)	10.0
1962 Mar 26 1903	NOTS EV2	Caleb	HI-HOE 2	F4H-389	YF4H-1 Phantom II (F-4A-1-MC) S/N 143389	NOTS	RW03/21	WTR	LP7	119.0W 33.0N (+/- 3.0)	21.0
1962 Jul 25 1541	NOTS EV2	Caleb	HI-HOE 3	F4H-389	YF4H-1 Phantom II (F-4A-1-MC) S/N 143389	NOTS	RW03/21	WTR	LP7	119.0W 33.0N (+/- 3.0)	1166.0

IV.1.31.26 F4H Phantom II, 145317/145310/143389

IV.1.32 US Rocket Launching Aircraft: Commercial

Updated: 2025 Jul 16 0237:19

US Rocket Launching Aircraft: Commercial

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
L-1011-385-1 (MFR No. 1067) Stargazer N140SC	L-1011-385-1 (MFR No. 1067) Stargazer N140SC		L-1011	OSC	L-1011	N140SC	-	1994 - -
Boeing 747-123 Shuttle Carrier Aircraft N905NA	Boeing 747-123 Shuttle Carrier Aircraft N905NA		SCA905	DFRC	B747	N905NA	-	1977 - 2012
Boeing 747-SR46 Shuttle Carrier Aircraft N911NA	Boeing 747-SR46 Shuttle Carrier Aircraft N911NA		SCA911	DFRC	B747	N911NA	-	1977 - 2012
Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG		B747-744	VORB	B747	N744VG	-	2020 - -
White Knight 1 N318SL	White Knight 1 N318SL		WK1	SCAL	WK1	N318SL	-	2002 - 2014
White Knight 2 N348MS 'VMS Eve'	White Knight 2 N348MS 'VMS Eve'		WK2	TSCO	WK2	N348MS	-	2008 - -
Scaled Model 351 Stratolaunch 'Roc'	Scaled Model 351 Stratolaunch 'Roc'	-	ROC	SCAL	-	N351SL	-	2019 - -

IV.1.32.1 L-1011-385-1 (MFR No. 1067) Stargazer N140SC

Rockets used: Pegasus XL,Pegasus H,Pegasus XL/HAPS

Updated: 2025 Jul 16 0237:19

Launches: L-1011

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Ap
1994 Jun 27 2115	Pegasus XL	STEP 1	STEP 1	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	38
1995 Apr 3 1348	Pegasus H	Orbcomm 1/2	Orbcomm FM1	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	75
1995 Jun 22 1958	Pegasus XL	STEP 3	STEP 3	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	14
1996 Mar 9 0133	Pegasus XL	REX II	REX II	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	83
1996 May 17 0244	Pegasus H	MSTI 3	MSTI 3	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	47
1996 Jul 2 0748	Pegasus XL	TOMS-EP	TOMS-EP	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	94
1996 Aug 21 0947:26	Pegasus XL	FAST	FAST	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	41
1996 Nov 4 1708:56	Pegasus XL	SAC-B/HETE	HETE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW04/22	WI	LP3	75.5W 37.8N (+/- 0.0)	55
1997 Apr 21 1159:06	Pegasus XL	Minisat-01	Minisat-01	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	GANC	RW03/21	GANC	LP1	15.3W 27.9N (+/- 0.0)	58
1997 Aug 1 2020	Pegasus XL	OrbView-2	Seastar	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	78
1997 Aug 29 1502:22	Pegasus XL	FORTE	FORTE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	83
1997 Oct 22 1313	Pegasus XL	STEP 4	STEP M4	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW04/22	WI	LP3	75.5W 37.8N (+/- 0.0)	50
1997 Dec 23 1911:42	Pegasus XL/HAPS	Orbcomm A1-A8	Orbcomm FM5	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW04/22	WI	LP3	75.5W 37.8N (+/- 0.0)	85
1998 Feb 26 0707	Pegasus XL	SNOE/T1	SNOE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30	WTR	PAWA	119.0W 33.0N (+/- 3.0)	58
1998 Apr 2 0242:39	Pegasus XL	TRACE	TRACE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	64
1998 Aug 2 1624	Pegasus XL/HAPS	Orbcomm B1-B8	Orbcomm FM17	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW04/22	WI	LP3	75.5W 37.8N (+/- 0.0)	83
1998 Sep 23 0506	Pegasus XL/HAPS	Orbcomm C1-C8	Orbcomm FM21	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW04/22	WI	LP3	75.5W 37.8N (+/- 0.0)	83
1998 Oct 23 0002	Pegasus H	SCD-2	SCD-2	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW30/12	ETR	MFWA	79.0W 28.5N (+/- 2.0)	77
1998 Dec 6 0057:54	Pegasus XL	SWAS	SWAS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	65
1999 Mar 5 0256	Pegasus XL	WIRE	WIRE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	59
1999 May 18 0509:36	Pegasus XL/HAPS	TERRIERS/MUBLCOM	TERRIERS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	77
1999 Dec 4 1853	Pegasus XL/HAPS	Orbcomm D1-D7	Orbcomm FM30	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	WIMB	RW22	WI	LP3	75.5W 37.8N (+/- 0.0)	13
2000 Jun 7 1319:30	Pegasus XL	TSX-5	TSX-5	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	17
2000 Oct 9 0538:18	Pegasus H	HETE 2	HETE 2	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	KMR	RW06/24	KMR	LP1	167.7E 9.0N (+/- 0.0)	66
2002 Feb 5 2058:12	Pegasus XL	HESSI	HESSI	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW30/12	ETR	MFWA	79.0W 28.5N (+/- 2.0)	60
2003 Jan 25 2013:35	Pegasus XL	SORCE	SORCE	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW30/12	ETR	MFWA	79.0W 28.5N (+/- 2.0)	65
2003 Apr 28 1159:57	Pegasus XL	GALEX	GALEX	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW30/12	ETR	MFWA	79.0W 28.5N (+/- 2.0)	70
2003 Jun 26 1853	Pegasus XL	Orbview-3	Orbview-3	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	46
2003 Aug 13 0209:33	Pegasus XL	Scisat-1	SCISAT-1	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	65
2005 Apr 15 1726:50	Pegasus XL/HAPS	DART	DART/HAPS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	75
2006 Mar 22 1403:53	Pegasus XL	ST5	Space Technology 5	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	45
2007 Apr 25 2026:03	Pegasus XL	AIM	AIM	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	60
2008 Apr 16 1702:48	Pegasus XL	C/NOFS	C/NOFS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	KMR	RW06/24	KMR	LP2	167.7E 9.0N (+/- 0.0)	85
2008 Oct 19 1747:23	Pegasus XL	IBEX/Star 27	IBEX	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	KMR	RW06/24	KMR	LP2	167.7E 9.0N (+/- 0.0)	15
2012 Jun 13 1600:42	Pegasus XL	NuSTAR	NuSTAR	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	KMR	RW06/24	KMR	LP3	167.7E 9.0N (+/- 0.0)	63
2013 Jun 28 0227:46	Pegasus XL	IRIS	IRIS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	V	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	66
2016 Dec 15 1337	Pegasus XL	CYGNSS	CYGNSS	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW13	ETR	MFWA	79.0W 28.5N (+/- 2.0)	57
2019 Oct 11 0200	Pegasus XL	ICON	ICON	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	CC	RW13	ETR	MFWA	79.0W 28.5N (+/- 2.0)	61
2021 Jun 13 0811	Pegasus XL	Odyssey	TacRL-2	L-1011	L-1011-385-1 (MFR No. 1067) Stargazer N140SC	VSFB	RW30/12	WTR	PAWA	119.0W 33.0N (+/- 3.0)	45

IV.1.32.2 Boeing 747-123 Shuttle Carrier Aircraft N905NA

IV.1.32.3 Boeing 747-SR46 Shuttle Carrier Aircraft N911NA

IV.1.32.4 Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG

Rockets used: LauncherOne

Updated: 2025 Jul 16 0237:19

Launches: B747-744

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apoge
2020 May 25 1950	LauncherOne	Starshine 4?	-	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	MHV	RW12/30	WTR	LP15	119.0W 33.0N (+/- 3.0)	10.0
2021 Jan 17 1938:51	LauncherOne	Elana XX	-	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	MHV	RW12/30	WTR	LP15	119.0W 33.0N (+/- 3.0)	535.0
2021 Jun 30 1447	LauncherOne	STP-27VPA	Tubular Bells I	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	MHV	RW12/30	WTR	LP16	119.0W 33.0N (+/- 3.0)	543.0
2022 Jan 13 2252	LauncherOne	STP-27VPB	Above The Clouds	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	MHV	RW12/30	WTR	LP17 A	119.0W 33.0N (+/- 3.0)	505.0
2022 Jul 2 0653:00	LauncherOne	STP-S28A	Straight Up	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	MHV	RW12/30	WTR	LP17 B	119.0W 33.0N (+/- 3.0)	499.0
2023 Jan 9 2308:59?	LauncherOne	UK launch	Start Me Up	B747-744	Boeing 747-400 (-41R) S/N 32745 Cosmic Girl N744VG	NEWQ	RW12/30	CELS	LP1	11.0W 51.0N (+/- 0.5)	-1.0

IV.1.32.5 White Knight 1 N318SL

Rockets used: Spaceship One

Updated: 2025 Jul 16 0237:19

Launches: WK1

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2003 May 20	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	14.0
2003 Jul 29	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	14.0
2003 Aug 7 1437	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Aug 27	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Aug 27	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Sep 23	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Oct 17	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Nov 14	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Nov 19	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Dec 4	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2003 Dec 17 1615	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	20.0
2004 Mar 11	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	14.0
2004 Apr 8 1511	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	LP1	118.1W 35.0N (+/- 0.0)	32.0
2004 May 13 1531	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW12/30	MHV	BAR	118.1W 35.0N (+/- 0.0)	64.0
2004 Jun 21 1450	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW30	MHV	BAR	118.1W 35.0N (+/- 0.0)	100.0
2004 Sep 29 1509:53	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW30	MHV	BAR	118.1W 35.0N (+/- 0.0)	103.0
2004 Oct 4 1449:11	Spaceship One	-	-	WK1	White Knight 1 N318SL	MHV	RW30	MHV	BAR	118.1W 35.0N (+/- 0.0)	112.0

IV.1.32.6 White Knight 2 N348MS 'VMS Eve'

Rockets used: Spaceship Two

Updated: 2025 Jul 16 0237:19

Launches: WK2

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2010 Mar 22	Spaceship Two	WK2-25/CC01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	-	-	-	118.1W 35.0N (+/- 0.0)	10.0
2010 May 16	Spaceship Two	WK2-27/CC02	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	-	-	-	118.1W 35.0N (+/- 0.0)	15.0
2010 Jul 15	Spaceship Two	WK2-33/CC03	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	-	-	-	118.1W 35.0N (+/- 0.0)	10.0
2010 Sep 30	Spaceship Two	WK2-39/CC04	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	-	-	-	118.1W 35.0N (+/- 0.0)	10.0
2010 Oct 10	Spaceship Two	WK2-41/GF01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2010 Oct 22	Spaceship Two	WK2-42/CC05	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	-	-	-	118.1W 35.0N (+/- 0.0)	10.0
2010 Oct 22	Spaceship Two	WK2-43/CC06	-	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	-	-	-	107.0W 33.0N (+/- 0.0)	10.0
2010 Oct 28	Spaceship Two	WK2-44/GF02	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2010 Nov 17	Spaceship Two	WK2-45/GF03	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2011 Jan 13	Spaceship Two	WK2-47/GF04	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2011 Feb 14	Spaceship Two	WK2-48/05GC-CC07	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	10.0
2011 Feb 15	Spaceship Two	WK2-49/05GC-CC08	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	10.0
2011 Apr 6	Spaceship Two	WK2-52/CC09	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	10.0
2011 Apr 7	Spaceship Two	WK2-53/CC10	-	WK2	White Knight 2 N348MS 'VMS Eve'	SFO	-	-	-	122.4W 37.6N (+/- 0.0)	10.0
2011 Apr 14	Spaceship Two	WK2-55/CC11	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	14.0
2011 Apr 22	Spaceship Two	WK2-56/GF05	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2011 Apr 27	Spaceship Two	WK2-57/GF06	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	14.0
2011 May 4 1428	Spaceship Two	WK2-58/GF07	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 May 10	Spaceship Two	WK2-59/GF08	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 May 19	Spaceship Two	WK2-60/GF09	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 May 25	Spaceship Two	WK2-61/GF10	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 9	Spaceship Two	WK2-62/CC12	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 14	Spaceship Two	WK2-64/GF11	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 15	Spaceship Two	WK2-65/GF12	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 21	Spaceship Two	WK2-66/GF13	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 23	Spaceship Two	WK2-67/GF14	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Jun 27	Spaceship Two	WK2-68/GF15	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2011 Sep 29	Spaceship Two	WK2-73/GF16	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Jun 26	Spaceship Two	WK2-87/GF17	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Jun 29	Spaceship Two	WK2-88/GF18	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Jul 18	Spaceship Two	WK2-90/GF19	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Aug 2	Spaceship Two	WK2-91/GF20	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Aug 7	Spaceship Two	WK2-92/GF21	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Aug 11	Spaceship Two	WK2-93/GF22	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2012 Dec 19	Spaceship Two	WK2-109/GF23	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2013 Apr 3 1531	Spaceship Two	WK2-113/GF24	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2013 Apr 12	Spaceship Two	WK2-114/CF01	Cold Flow	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2013 Apr 29 1447	Spaceship Two	WK2-115/PF01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	17.0
2013 Jul 25	Spaceship Two	WK2-130/GF25	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2013 Aug 8 1450?	Spaceship Two	WK2-131/GF26	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2013 Sep 5 1611	Spaceship Two	WK2-132/PF02	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	21.0
2013 Dec 11 1745?	Spaceship Two	WK2-145/GF27	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2014 Jan 10 1600?	Spaceship Two	WK2-147/PF03	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	22.0
2014 Jan 17 1700?	Spaceship Two	WK2-149/GF28 51	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2014 Jul 29 2049?	Spaceship Two	WK2-156/GF29	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2014 Aug 28 1453?	Spaceship Two	WK2-164/CF02	Cold Flow	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2014 Oct 7 1600?	Spaceship Two	WK2-170/GF30	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2014 Oct 31 1709	Spaceship Two	WK2-173/PF04	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2016 Sep 8 1904	Spaceship Two	WK2-2xx/VG-001 CC2-01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	10.0
2016 Nov 1 1330?	Spaceship Two	WK2-215/VG-002 CC2-02	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	15.0
2016 Nov 3 1330?	Spaceship Two	WK2-216/VG-003 CC2-03	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	15.0
2016 Nov 30 2207	Spaceship Two	WK2-217/VG-004 CC2-04	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	15.0
2016 Dec 3 1540	Spaceship Two	WK2-218/VG-005 GF	Glide 1	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2016 Dec 22 2200?	Spaceship Two	WK2-221/VG-006 GF	Glide 2	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2017 Feb 24 1810?	Spaceship Two	WK2-226/VG-007 GF	Glide 3	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0

Launches: WK2

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2017 May 1 1738?	Spaceship Two	WK2-227/VG-008 GF	Feather test	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2017 Jun 1 1755?	Spaceship Two	WK2-230/VG-009 GF	Water ballast test	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2017 Aug 4	Spaceship Two	WK2-234/VG-010 GF	Glide 6	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2018 Jan 11	Spaceship Two	WK2-242/VG-011 GF	Glide 7	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	15.0
2018 Apr 5	Spaceship Two	WK2-246/VG-012 VP-01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	26.0
2018 May 29	Spaceship Two	WK2-249/VG-013 VP-01-2	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	LP3	118.1W 35.0N (+/- 0.0)	35.0
2018 Jul 26 1644	Spaceship Two	WK2-252/VG-014 VP-02	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	KVAL	118.1W 35.0N (+/- 0.0)	52.0
2018 Dec 13 1559:39	Spaceship Two	WK2-261/VG-015 VP-03	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	KVAL	118.1W 35.0N (+/- 0.0)	82.0
2019 Feb 22 1653:40	Spaceship Two	WK2-264/VG-016 VF-01	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	MHV	KVAL	118.1W 35.0N (+/- 0.0)	90.0
2020 Feb 13 1859	Spaceship Two	WK2-2xx/VG-017 CC2	-	WK2	White Knight 2 N348MS 'VMS Eve'	MHV	RW12/30	-	-	118.1W 35.0N (+/- 0.0)	15.0
2020 May 1 1540	Spaceship Two	WK2-279/VG-018 VG-09	Glide 8	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P1	107.0W 33.0N (+/- 0.0)	15.0
2020 Jun 25 1533:44	Spaceship Two	WK2-284/VG-019 VG-10	Glide 9	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P2	107.0W 33.0N (+/- 0.0)	15.0
2020 Dec 12 1616:50?	Spaceship Two	WK2-288/VG-020 VF-02	Unity 20	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P2	107.0W 33.0N (+/- 0.0)	15.0
2021 May 22 1526	Spaceship Two	WK2-294/VG-021 VF-02-2	Unity 21	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	89.0
2021 Jul 11 1524:17	Spaceship Two	WK2-295/VG-022 VH-01	Unity 22	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P4	107.0W 33.0N (+/- 0.0)	85.0
2023 Apr 17 1336	Spaceship Two	WK2-xxx/VG-023 CC	Unity 23?	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	-	-	107.0W 33.0N (+/- 0.0)	14.0
2023 Apr 26 1347	Spaceship Two	WK2-xxx/VG-024	Unity 24	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	14.0
2023 May 25 1623:04	Spaceship Two	WK2-312/VG-025	Unity 25	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0
2023 Jun 29 1528:37	Spaceship Two	WK2-317/VG-026	Galactic 01	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0
2023 Aug 10 1517:10	Spaceship Two	WK2-324/VG-027	Galactic 02	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	88.0
2023 Sep 8 1522:13	Spaceship Two	WK2-327/VG-028	Galactic 03	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	88.0
2023 Oct 6 1610:33	Spaceship Two	WK2-332/VG-029	Galactic 04	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0
2023 Nov 2 1544:40	Spaceship Two	WK2-337/VG-030	Galactic 05	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0
2024 Jan 26 1742:05	Spaceship Two	WK2-xxx/VG-031	Galactic 06	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0
2024 Jun 8 1526:30	Spaceship Two	WK2-xxx/VG-032	Galactic 07	WK2	White Knight 2 N348MS 'VMS Eve'	SPAM	RW16/34	SPAM	EBR P3	107.0W 33.0N (+/- 0.0)	87.0

IV.1.32.7 Scaled Model 351 Stratolaunch 'Roc'

Rockets used: Talon-A

Updated: 2025 Jul 16 0237:19

Launches: ROC

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2024 Mar 9	Talon-A	-	-	ROC	Scaled Model 351 Stratolaunch 'Roc'	MHV	-	WTR	-	119.0W 33.0N (+/- 3.0)	20.0
2024 Dec 20	Talon-A	MACH-TB	-	ROC	Scaled Model 351 Stratolaunch 'Roc'	MHV	RW30	WTR	-	119.0W 33.0N (+/- 3.0)	31.0
2025 Mar 24	Talon-A	MACH-TB	-	ROC	Scaled Model 351 Stratolaunch 'Roc'	MHV	RW30	WTR	-	119.0W 33.0N (+/- 3.0)	31.0

IV.1.33 US Ground-Launched Rockoons

Updated: 2025 Jul 16 0237:19

US Ground-Launched Rockoons

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
USAF Farside Balloon	USAF Farside Balloon		BLN-FS	USAF	-	-	-	1957 - 1958
NASA LDSD Balloon	NASA LDSD Balloon		BLN-LDSD	NASA	-	-	-	- - -
HAL5 Balloon	HAL5 Balloon		BLN-HAL5	NASA	-	-	-	1997 - 1997

IV.1.33.1 USAF Farside Balloon

Rockets used: Farside

Updated: 2025 Jul 16 0237:19

Launches: BLN-FS

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1957 Sep 25	Farside	Shot 1	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	20.0
1957 Oct 3	Farside	Shot 2	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	800.0
1957 Oct 7	Farside	Shot 3	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	700.0
1957 Oct 11	Farside	Shot 4	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	30.0
1957 Oct 20	Farside	Shot 5	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	5000.0
1957 Oct 22	Farside	Shot 6	-	BLN-FS	USAF Farside Balloon	ENW	FS	-	-	162.2E 11.5N (+/- 0.0)	5000.0

IV.1.33.2 NASA LDSD Balloon

Rockets used: LDSD

Updated: 2025 Jul 16 0237:19

Launches: BLN-LDSD

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
2014 Jun 28 2105:00	LDSD	SIAD-R/SSDS	-	BLN-LDSD	NASA LDSD Balloon	KAU	BLP	KAU	LP2	159.8W 22.1N (+/- 0.0)	54.0
2015 Jun 8 2135:00	LDSD	SIAD-R/SSRS	-	BLN-LDSD	NASA LDSD Balloon	KAU	BLP	KAU	LP2	159.8W 22.1N (+/- 0.0)	54.0

IV.1.33.3 HAL5 Balloon

Rockets used: HALO

Updated: 2025 Jul 16 0237:19

Launches: BLN-HAL5

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1997 May 11 1225	HALO	Rockoon	-	BLN-HAL5	HAL5 Balloon	HAMNC	-	-	-	77.6W 34.4N (+/- 0.1)	67.0

IV.1.34 Soviet/Russian Rocket Launching Aircraft

Updated: 2025 Jul 16 0237:19

Soviet/Russian Rocket Launching Aircraft

Ship	Transliteration	Image	CODE	Agency	Class	ClassID	AltID	Active
MiG-31D 07-2	MiG-31D 07-2		MiG31D-72	PVO	MiG-31	07-2	-	- - -

IV.1.34.1 MiG-31D 07-2

Rockets used: Kontakt

Updated: 2025 Jul 16 0237:19

Launches: MiG31D-72

Date	Rocket	Flight	Mission	PlatCode	Platform	Site	LP	AscSite	AscLP	Pos	Apogee
1991 Jul 26	Kontakt	79M6 test flight	-	MiG31D-72	MiG-31D 07-2	BALKH	-	-	-	72.9E 46.4N (+/- 0.0)	200.0

Part V

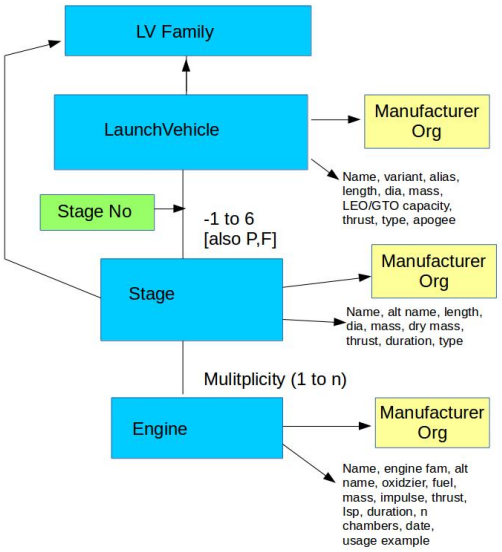
Launch Vehicles

Chapter V.1

Launch Vehicle Descriptions

V.1.1 Introduction

Each launch in the launch database is associated with a particular launch vehicle variant. In this section we describe these vehicles, giving approximate dimensions, masses and performance parameters. The reader should note that these approximate values are intended to give a general idea of the differences between variants - but the data is not necessarily the most accurate available and parameters given in other sources may be more reliable.



Schema for launch vehicle database, centered on the LaunchVehicle class. Each LaunchVehicle and Stage belongs to an LV Family. Each Launch Vehicle has a numbered set of stages. Each stage has a main engine type and has some (unordered) number of that type of engine. Auxiliary engines are not considered. Manufacturers of LVs, Stages and Engines are identified using an Org code linking them to the Orgs database.

Each launch vehicle variant is defined as consisting of a series of stages, and each stage is associated with a main engine type. Furthermore, each variant is a member of a larger grouping called a launch vehicle family. This structure is related in the five files that make up the launch vehicle description database:

- Families - the Family file lists the different launch vehicle families.
- LV - the LV file lists each launch vehicle variant and its overall properties, including specifying which family it is a member of.
- LV Stages the LVtages file ties the LV and Stages file together by listing the stages in each vehicle variant.
- Stages - the Stages file lists each different type of stage and their parameters, including the type and numbers of main engines.
- Engines - Main engines used in each stage. The Engines file lists engines used either as Stage main engines or as satellite apogee engines.

V.1.2 Launch Vehicle Families

In this work I have grouped stages into 'families' of related designs, and launch vehicles into families based on their first stage type. For instance, I consider the Thor Agena, Thor Able, and Delta II to be members of the same family, while Atlas Agena, Atlas Able, and Atlas Centaur are a second family. Ariane 1 to 4 and Ariane 5 are separate families - Ariane 1 to 4 share a common first stage design, but Ariane 5 is an entirely different rocket.

It's easier to maintain listings on a per-family basis, and the total number of first stage families is about 330 - much smaller than the 1500 or so different launch vehicle variants. There are some grey areas in assigning vehicles to families, but it's much less problematic than splitting hairs about slight differences between variants.

The rule I've adopted for defining a new family is a change in the tankage diameter. In some ways this is a superficial thing - to a rocket engineer, changes in the engine and the avionics will be much more significant than a change in the external dimensions - but in practise the diameter criterion works well and reveals important design commonalities between different launch vehicles. There are some marginal cases - the Trident II and Trident I missiles are closely related but have different diameters. The real complication comes in deciding which stage is the first stage. For orbital vehicles it's pretty clear, on a Delta II the Thor-derived first stage is a true first stage, it wouldn't make sense to count the GEM strapons as the core of the vehicle. But for many sounding rockets the vehicle consists of a booster and sustainer, with the booster falling off after only a couple of seconds. Is a Nike-Aerobee (Aerobee 170) a Nike variant or an Aerobee variant? After much agonizing I have decided to consider it a Nike variant. Similarly, Skylarks boosted by Cuckoo or Goldfinch motors are under the Cuckoo family, while single-stage unboosted Skylarks are in the Raven family.

V.1.3 Launch Vehicle List

The LV (launch vehicle) list has the following fields:

- **Name of launch vehicle**
- **Launch vehicle family** - base stage.
- **Manufacturer.** See the Orgs file.
- **Launch vehicle variant.** Sometimes two different launch vehicles have the same name. For instance, the Vanguard rocket had variants with different third stages; the Little Joe 1 had various combinations of rocket motors; some variants of the H-1 had different strapons or different numbers of stages. These variants are indicated by an extra string in this field.
- **Alias.** An entry in this field indicates that the vehicle mentioned as an alias is an alternate name for this vehicle. For instance, the Taurus 1110 has the alias 'ARPA Taurus', indicating that the separate entry for ARPA Taurus actually refers to the same vehicle as the Taurus 1110; the vehicle was simply renamed. I have chosen in my launch listings to use the vehicle name in use by the launch agency at the time of launch. The Saturn IB, for example, was known for a while as the Uprated Saturn I, and has identical entries under each name.

- **Stage numbers.** Two numbers giving the minimum and maximum stage number. The minimum is usually 1, but sometimes 0 to allow for strapon stages, and occasionally -1 to allow for two kinds of strapon stage (e.g. Atlas IIAS).
- **Length** (metres.) The length is approximate, and may vary when different payloads and fairings are used.
- **Diameter** (metres)
- **Launch mass,** (tonnes)
- **LEO payload capacity** in kg, approximate; only provided for some of the orbital vehicles. Values in these fields are especially tentative.
- **GTO payload capacity** in kg, approximate; only provided for some of the orbital vehicles. Values in these fields are especially tentative.
- **Launch thrust,** kN.
- **Vehicle type,** see below.
- **Estimated max apogee** (kilometers). In many cases this is a rough order of magnitude (ROM) estimate. In some cases for IRBM/ICBMs I include an extra figure representing the range.

The following vehicle types are defined: (number of examples is from the 2003 release and has not been updated)

Code	Type
D	Deep Space launch
M	Missile
O	Orbital vehicle
R	Research rocket
V	Reentry test vehicle
X	Exoatmospheric test
Y	Exoatmospheric weather rocket
A	Endoatmospheric missile
C	Cruise missile
Q	Endoatmospheric reentry test
T	Endoatmospheric test/research
W	Endoatmospheric weather rocket

These types for individual launch vehicle types are slightly more finely divided than those used for the Family/Stage datafile: apart from the use of O rather than L, the R category is broken up to include V, X and Y subtypes and the T/A category is joined by the Q type. Note that the A,C,Q,T,W types of rocket never enter space (by my 80 km definition).

V.1.4 LV Stages

The LV Stages list is quite simple. Each line represents a single stage within a vehicle. Stages are usually numbered starting from 1; 0 is used for strapon boosters, and in the rare cases where two different kinds of strapon booster are present, -1 is used as well. In some cases the nose fairing is included, and given a stage ‘number’ of F.

- **The vehicle name.**
- **The vehicle variant** (usually blank). Sometimes a launch vehicle manufacturer will use exactly the same designation for two versions of a vehicle with different stages or engines. I use an arbitrary string code to distinguish the versions.
- **the stage number** (which can be -1 or 0 for strapons, and F for fairing),
- **the stage name** (which maps to the Stages file)

- **uncertainty flag,** a flag to indicate that it is not confirmed that this stage is the correct one.
- **dummy flag,** a flag to indicate a dummy stage (e.g. the Cora vehicle always carries a dummy Astris stage), and finally
- **the stage multiplicity:** e.g. stage 0 of the ASLV consists of two AS-0 strapon stages, and so has multiplicity 2.

V.1.5 Stages

The Stages file gives basic information for all of the stages making up the launch vehicles in the LV file. The reader is again cautioned about the approximate nature of the numerical values in this file.

The file contains for each stage:

- **Stage name**
- **Stage family**
- **Manufacturer**
- **Alternate name**
- **Length** (m)
- **Diameter** (m)
- **Full mass** (tonne)
- **Dry mass** (kg)
- **Typical thrust** (kN)
- **Typical burn duration** (s)
- **Main engine name**
- **Main engine multiplicity** (i.e. the stage has this many main engines, all of the type defined in the previous column.)
- **Stage type** This doesn't really mean anything and can be ignored.

The main engine name has been made up (e.g. RD R-29 (1) for the first stage of the R-29) for cases where no name for the engine is available.

V.1.6 Engines

The Engines file gives basic information for solid motors and liquid engines used as the main engines of stages in the Stages file. The reader is again cautioned about the approximate nature of the numerical values in this file.

The file contains for each engine:

- **Engine name**
- **Manufacturer**
- **Engine Family** (loosely defined grouping)
- **Alternative name**

- **Oxidizer type**
- **Fuel type**
- **Mass, kg, loaded** (solids only)
- **Total impulse,** kNs (mostly for solids)
- **Typical thrust** (kN)
- **Typical Isp** (s), (vacuum Isp where available)
- **Typical burn duration** (s)
- **Number of engine chambers** per engine
- **Date of first flight**
- **Example of usage**
  (stage number in brackets)

The main engine name has been made up (e.g. RD R-29 (1) for the first Stage of the R-29) for cases where no real name for the engine is available.

Part VI

Launch Lists

Chapter VI.1

Launch Lists

VI.1.1 Introduction

The JSR Launch Vehicle Database is an attempt to provide a complete listing of all types of space launch vehicle, both suborbital and orbital, and indicate relationships between them. An attempt has been made to estimate numerical parameters even when they are not available in the literature, on the grounds that some reasonable estimate is better than none and gives a general idea of the vehicle's size and power.

The database gives launch times in UTC to the nearest second where available. It is the only online source for most of these launch times. An accurate launch time is important if you want to compare trajectories of different launches (did that missile launch pass close to this satellite?).

In the database:

- - all successful orbital launches are included
- - all confirmed failed orbital launch attempts are included; it is believed there are no more than a handful of unknown ones.
- - I have attempted to include all publicly documented suborbital exoatmospheric (apogee above 80 km) launches. The completeness with respect to such launches is moderately high (I would guess 70 to 80 percent) for large rockets (large sounding rockets, IRBMs and ICBMs). It is much lower (perhaps 30 to 50 percent) for small meteorological rockets where public records are comparatively lacking.
- - I have made a less comprehensive effort to document mesospheric launches, but completeness is fairly high for larger rockets and missiles with apogee in the mesosphere.
- - Endoatmospheric launches (launches with apogees below 50 km) are included on a patchy and somewhat arbitrary basis. I have attempted to include rockets that are in some way related to orbital missions, rockets that are launched from orbital launch sites (so that the launch list for that site is complete), and some rockets that I happen to find interesting. However, there is no attempt at completeness for endoatmospheric launches.

The primary access to the database is through launch lists for each 'family' of rocket. A family groups together launch vehicles with the same basic first stage design.

For each launch a citation (LTCite) is given for the existence of the launch and the source of the launch time. Occasional secondary citations are given for interest; I have not provided a detailed citation trail for the values in other columns of the tables. You have been warned. The cryptic citations are somewhat expanded in the Launch Time References file.

I acknowledge the help of Joe King and Pat Ross at NSSDC, who provided access to the old World Data Center/Rockets and Satellites launch database, and Joel Powell, Jean-Jacques Serra, Vladimir Agapov, Phillip Clark, Asif Siddiqi, Peter Hunter, Jacques Tiziou and the late Geoff Perry for sharing data over the many years it took to assemble this information. Mark Cleary at Patrick AFB, Roger Launius at NASA HQ, Elaine Liston at the KSC

archives, and Jeff Geiger at Vandenberg were among those who provided useful data. Mark Wade has also caught a number of inconsistencies in the designation system, which I've fixed, and Doug Burke found numerous formatting errors. Above all, kudos to Carl Rigg who once again spent several months painstakingly comparing my data with his own extensive and independently constructed lists, and caught a large number of typos and errors. Thanks to Carl, I believe that this database is now as reliable a source for launch times, launch sites and vehicle types as any currently in existence. I also thank Ulrich Brocks who has scoured on-line newspapers and other resources to track down additional launch times and details.

VI.1.2 Launch List Column Explanations

The lists have the following fields:

- **Launch_Tag:** an identifier for the launch. For orbital launches, this is the international (COSPAR) designation of the launch. For other launches, the designation is assigned by me using a pseudo-COSPAR format of the form yyyy-Xnnn, where yyyy is the year of launch, X is a letter, and nnn is an integer. The designations are explained in the introduction. See the detailed description in the (See Launch Designations) section of the introduction.
- **Launch_JD:** the Julian Date (UTC) of launch, useful for sorting.
- **Launch_Date,** the UTC Gregorian calendar date of launch (defined as first motion, so may differ by a few seconds from some sources which use rocket ignition). The date is given in (See VagueDate) format.
- **LV_Type,** name of the type of rocket used, as given in the (See LV table.)
- **LV_Variant** - see discussion in the description of the (See LV table.)
- **Flight_ID:** an identifier for the particular launch, for example the serial number of the launch vehicle or the mission number or name assigned by the launch agency.
- **Flight, Mission, and FlightCode:** - additional identifers for the launch. For orbital flights, at least one if these is usually the name of the payload. Some launches have a lot of different designations. I haven't been fully consistent about which name goes in which of the Flight, Mission, FlightCode fields, although usually names in a specific series are in the same column.
- **Platform, Launch_Site and Launch_Pad:** where the rocket was launched from. Usually Platform is blank and the launch site (see the Sites file) tells you where the rocket went up from, and the Pad gives you the specific location within the launch site. Platform is used for mobile sites such as submarines or planes. See (See Launch Sites) and (See Platforms.)
- **Ascent_Site and Ascent_Pad**

  Site and location of the actual rocket launch from a Platform, when different from the Launchite. For air launches, Launchite/Pad give the airport/runway of carrier plane takeoff, and Ascentite/Pad give the drop site location.
- **Apogee** - the highest altitude actually reached, in km. This field may be omitted for orbital launches. In many cases for non-orbital launches the value is a guess based on known capabilities of the launch vehicle, so only values with no appended question-mark should be taken as accurate.
- **Range** - the range in km measured along the curved surface of the Earth between launch site and impact site, for a suborbital launch. I have only recently added this field and very few entries are filled in.
- **Destination (Dest)** - the location of landing/impact of a suborbital flight. At present the values in this field are mnemonics that may or may not be obvious to the reader - sorry, I don't have a table of them at this stage. This is another recently added field and regarded as incompletely supported. Values in parentheses represent intended targets that were not reached due to a failure.

- **Orbital Payload (OPay):** - payload in tonnes delivered to orbit (perigee above 80 km). Current values are autogenerated from the payload tables and there are likely some special cases not treated properly yet. Use with caution for now (2024).
- **Launch_Agency:** Organization responsible for launch services (often different from the organization owning the payload). See the (See Organizations database.)
- **LaunchCode** field. The first letter is the **launch category** - O for orbital, M for military missile, T for test rocket, A for atmospheric rocket, S for suborbital rocket other than missile, D for deep space mission. Also used occasionally are H (high altitude sounding rocket), R (reentry test), X (launch from world other than Earth), and Y (suborbital spaceplane with human crew). This field should be reliable for categories O and D, but the remaining letters are not always assigned fully consistently. It is mainly intended to separate out orbital and non-orbital launches.

  The second letter, possibly followed by digits, is the **launch success fraction** (see the (See definitions section))

  Usually the launch success fraction code is S, F or U for Success, Fail or Unknown. Success implies propulsive success only, even if no data was returned from the payload. Also used is E, for pad explosion (no launch occurred, but included in the lists for completeness).

  For orbital launches partial success/failure values are sometimes given, e.g. OS80 or OF40. The values between 00 and 99 indicate a percentage success to be used in statistical assessments of launch vehicle reliability as originally described in JSR 669 (http://www.planet4589.org/space/jsr/back/news.669.txt) and here in (See the launch success fraction) part of the definitions section.
- **FailCode:** The launch failure code. This field is reserved for future use. For failed launches, it will encode the nature of the failure.
- **Group:** For suborbital science missions, indicates the leading organizations responsible for the science payload. Up to 3 are given separated by slashes. Following the last slash is a comma-separated list of names of the principal investigators.

  For orbital missions: This field encodes the type of launch service; the values are explained in (See the launch service code) part of the definitions section.
- **Category:** For non-orbital launches: Type of flight. Not necessarily a rigorous set of designations.

  For orbital launches: Launch profile code. This records what the target orbit type was, how many upper stages where left in orbit, and what kind of debris mitigation manuever was carried out for them, if any.

  The codes are explained in (See the launch profile code) part of the definitions section.
- **Citation 1 (LTCite):** this citation is the primary reference for the existence of the launch and for the given launch time. See the (See Refs file.)

  ”Wire” means that the time was taken from wire service stories, internet news sites or live launch broadcasts. I’ve been more careful with recording a specific source where the launch time was hard to find.
- **Citation 2: (Cite)** Additional citation of interest, for example reference for which launch pad was used, etc.
- **Notes:** A field for additional notes. Right now I have rarely used this.

Part VII

Worlds of the Solar System

Chapter VII.1

Solar System Model

VII.1.1 Solar System Description Files

At any given time, an artificial space object is considered to be orbiting a particular astronomical body. In the General Catalog the body is identified by a string identifier (e.g. "Earth"). The bodies and their properties are described in two files, the Worlds file and the Spin file.

VII.1.2 Preamble: The Hill Sphere

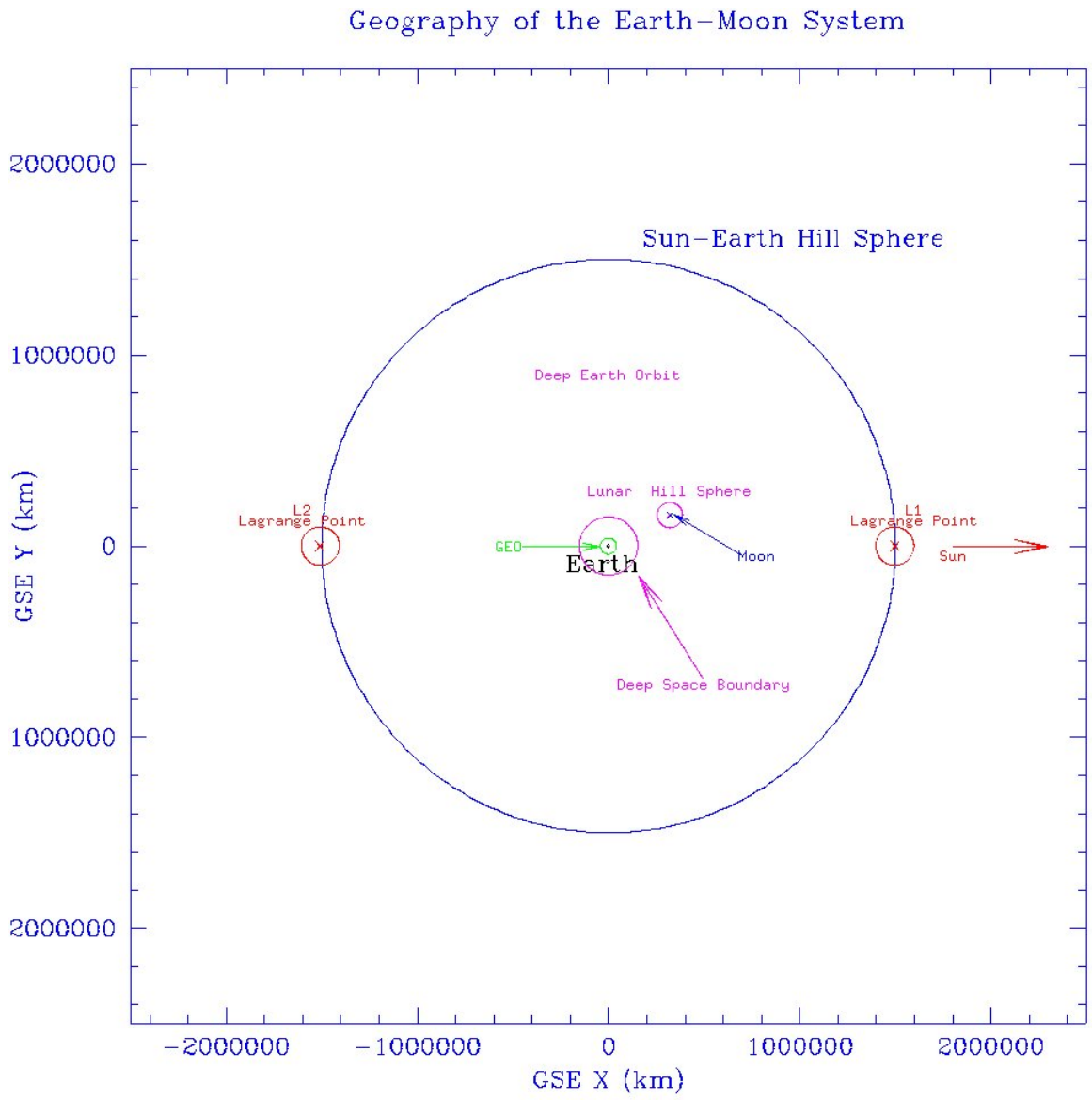
In general, a space object travels under the gravitational influence of all the massive worlds in the system. However, in most cases the effects of all but one body can be neglected or treated as small perturbations. We say that the object is 'in orbit about' that one body. (The orbit is not necessarily bound; it may be a hyperbola rather than an ellipse). I introduce the concept of the Hill sphere of body A with respect to body B.

Let the mass of body A be M, the (smaller) mass of body B be m, and the distance between A and B be R. Then B's gravity dominates (in this approximation) when the distance from the object to B is less than

$$r(\text{Hill}) = R\left(\frac{m}{3M}\right)^{1/3}$$

For example, the radius of the Sun-Earth Hill sphere is about 1.5 million km centered on the Earth. The radius of the Earth-Moon Hill sphere is about 66,000 km centered on the Moon, and therefore is entirely within the Sun-Earth sphere.

Here is a map of the Earth-Moon system (with the Moon's position shown on the arbitrary date of 1968 Dec 21), showing the sizes of the two Hill spheres. The map is in geocentric solar ecliptic coordinates in which the Earth-Sun line is fixed and is the X-axis.



The locations for the SEL1 (Sun-Earth Lagrange 1) and SEL2 (Sun-Earth Lagrange 2) points (see below) are also shown. The magenta circle around the Earth indicates the EL1:4 'deep space boundary' beyond which I record space objects in the Deep Space Catalog instead of the main Earth satellite catalog.

VII.1.3 Worlds in the Solar System

The General Catalog includes data on spacecraft in the vicinity of bodies throughout the Solar System (and, like the Voyagers, on their way to the great beyond).

We consider four kinds of body:

- Stars, of which the only one currently relevant to space travel is the Sun.
- Worlds. A world is a body which is sufficiently massive that it is spheroidal due to its own gravity but not massive enough to be a star. This includes gas and ice giants like Jupiter and Neptune, and terrestrial rocky and icy worlds like Earth and Titan. The majority of worlds are icy bodies beyond Neptune whose sizes are in fact poorly known at the moment.

- Small bodies, solid objects smaller than worlds - asteroids, comets, small moons, and small Trans-Neptunian objects. While the true geophysical boundary between worlds and small bodies depends on composition, for definiteness I treat all substellar bodies with mean radius more than 200 km as worlds. In the list of small bodies used in the catalog, I include a number of the larger ones and all bodies that have been visited by spacecraft.

- Dynamical reference points, of which we consider two types: subsystem barycenters and Lagrange points.

Objects maintaining position near Lagrange points are recorded in the General Catalog as 'orbiting' those points; in all other cases, objects are considered to orbit the body whose Hill sphere they are within. (In the case of nested Hill spheres, we take the innermost sphere the object is within).

VII.1.3.1 Dynamical Reference Points

First, let's discuss barycenters.

- The SSB: of greatest importance is the Solar System Barycenter (SSB), the center of gravity of the Solar System. We often choose coordinates in which the planets orbit the Sun (HC, heliocentric coordinates), and that's what I do for the most part in the General Catalog. But you can instead use a barycentric coordinate (BC) system in which the Sun and the planets jointly orbit the SSB, and this is actually 'better' or 'more correct' in several senses - for example, BC is closer to an inertial frame, and orbital elements of loosely bound objects like high-eccentricity comets are less time-variable in BC. I went back and forth a few times on this but ultimately decided to stick with object-centered systems (HC and geocentric), partly because it's conventional to refer Earth satellites to the Earth's center and not the Earth-Moon barycenter.

- The EMB: the Earth-Moon Barycenter. It is useful to think of the EMB as orbiting the Sun and the Earth and Moon as each orbiting the EMB. (The EMB's orbit around the Sun is more closely an ellipse, while the Earth's has wobbles in it due to the Moon).

- Other subsystem barycenters, notably the Jovian and Saturnian systems (whose barycenters, however, are deep within their central planets). These are not explicitly in the attached world list, but are automatically added to the list in software as needed.

Now let's talk about Lagrange points, which are closely related to the Hill sphere discussed in the previous section. When body B orbits body A, an object orbiting both will be subject to the effects of the gravity of A and B and to the acceleration due to the angular momentum it has with respect to both. Lagrange showed that the net effective forces balance at five points which are the solution of a quintic equation, the Lagrange quintic. We refer to these points as the L1 to L5 points of the A-B system. The Lagrange points for the specific and special A-B cases of Sun-Earth and Earth-Moon are referred to as SEL1 to SEL5 and EML1 to EML5.

- The L1 point lies at the interior intersection between the A-B line and the A-B Hill Sphere. SEL1 is 1.496 million km from the Earth in the direction towards the Sun (i.e. towards noon). SEL1 is useful for probes studying solar wind particles before they reach the Earth.

- The L2 point lies at the exterior intersection between the A-B line and the A-B Hill Sphere. SEL2 is 1.496 million km from the Earth in the direction away from the Sun (i.e. towards midnight). SEL2 is very useful for astronomical observatories. EML2 is being used by the Queqiao communications spacecraft as a farside communications relay point.

  The L1 and L2 points are peaks in the effective potential; gravitational forces on objects there are low but nonzero and slowly cause the object to drift away. However, these forces can be counteracted by occasional small thruster firings. In practice spacecraft are placed in large 'orbits' around L1 or L2, with radii often in the hundreds of thousands of km for SEL1/2 and maintenance thruster burns every few months. I put the quotes around the word 'orbit' since there is of course no central gravitating mass at the Lagrange point, and the paths are not remotely Keplerian. Lagrange trajectories can be either 'halo orbits' or 'Lissajous orbits', and I hope to finally get around to learning the relevant orbital dynamics some day soon.

- The L3 point lies on the extension of the A-B line through A, roughly at the same distance from A as B is. SEL3 is therefore about 149.6 million km from the Sun and 180 degrees around the Earth's orbit from Earth - it is, roughly, the Anti-Earth. At least so far, the L3 point has not had any particular importance in astronomy or astronautics.
- The L4 and L5 points make an equilateral triangle with A and B, in the plane of the A-B mutual orbit. Unlike L1 to L3, they are gravitationally stable. The first practical example of Lagrange points was the discovery of asteroids at Sun-Jupiter L4 and L5. These asteroids were given names of characters from the Trojan War and became known as Trojan asteroids; the L4 and L5 points are thus also known as 'Trojan points' of any A-B system. Some probes have explored the interplanetary environment near the Earth-Moon L4 and L5 points.

VII.1.4 Worlds Table Column Descriptions

Each line in the Worlds table represents a world, a small body, or a dynamical point.

The fields in the Worlds table are described below. The important fields are the name, mass, and radius. The orbital data given (columns from SemiMajorAxis through Epoch, and EphPeriod), as well as the RotPeriod, are sample values and it should be noted that the elements are functions of time - especially for moons. In practice, detailed ephemerides such as the JPL data are used to compute the locations of the worlds, and the values in this table are just to give the reader a general idea.

- **IDType:** This one or two character string defines what kind of IDName designation the body has. (This also hints what kind of world it is, but that is formally defined in the WType field). The values are described in the next (IDName) paragraph.
- **IDName:** Combined with the ID field, the IDName provides a unique identifier for the body. These are based on the standard astronomical designations for the bodies except for the planets and moons which use the JPL ephemeris codes for the objects. (The identifiers are explained below, but it's fine to treat them as opaque strings rather than parse them).

ID	IDName Format	IDName Examples	Category	Description
P	0nn	006	Planet or Moon	Three digit code. 001-010 are 'planets'including Pluto (9) and the Sun (10).
P	pnn	603		Values 301-999 represent moons. The first digit is the primary and the second is the moon number for that primary, so 603 is the third officially numbered moon of Saturn (Tethys).
DL	ABLn	SEL2	Lagrange point	L Point n for the Alpha-Beta system is ABLn. The letter abbrevations for the bodies are, however, arbitrary.
A	(nnnn)	(532037)	Numbered minor planet	Value in parentheses is the minor planet number, starting with (1) Ceres.
AP	yyyy ABnnn	2002 TC302	Provisionally designated minor planet	IAU MPC provisional designation code, starting with discovery year.
AS	(nnn) m	(90482) 1	Satellite of minor planet	moon number m of asteroid nnn is (nnn) m.
C	nnP/	21P/	Comet	Comet designations ending in P/ are numbered periodic comets.
C	C/yyyy An	C/2017 S8	Comet	Comet designations starting C/ or D/ are 'unnumbered' non-periodic coments.

- **Name:** Name of the body. This name is used to identify the central body around which an object is orbiting in the General Catalog object catalogs and in the XTLE (extended TLE) orbit data files.
- **AltName:** Alternate name of the body. Either the formal designation with respect to the object's primary (e.g. Earth is Sol III) or an asteroid provisional designation.

- **Radius:** The equatorial radius of the body in km. A trailing question mark indicates an uncertain estimate.
- **Polar radius:** Polar radius of the body in km, where known.
- **Mass:** Mass of the body in teratonnes (1E15 kg, or 1E18g). A trailing question mark indicates an uncertain estimate. A trailing letter M (for million) indicates the numerical value should be multiplied by 1,000,000.
- **SemiMajorAxis:** Semi-major axis (orbital radius) of the body's orbit around its primary, in km. A trailing question mark indicates an uncertain estimate. A trailing letter M (for million) indicates the numerical value should be multiplied by 1,000,000.
- **Periapsis:** Periapsis (minimum orbital radius) of the body's orbit around its primary, in km. Note that for comets, the periapsis is often much more accurately known than the semi-major axis. A trailing question mark indicates an uncertain estimate. A trailing letter M (for million) indicates the numerical value should be multiplied by 1,000,000.
- **Ecc:** Orbital eccentricity at the given epoch.
- **Inc:** Orbital inclination at the given epoch. Moon orbits given with respect to planetary equator. Heliocentric orbits given with respect to the J2000 ecliptic.
- **Node:** Longitude of ascending node at the given epoch. Moon orbits given with respect to planetary equator. Heliocentric orbits given with respect to the J2000 ecliptic.
- **Peri:** Argument of periapsis at the given epoch.
- **M:** Mean anomaly at the given epoch.
- **Epoch:** Epoch of the sample orbital elements (SMA, periapsis, ecc, inc, node, peri, M).
- **RotPeriod:** Rotation period of the body in days. (More detailed information given in the Spin file).
- **OrbPeriod:** Orbital period of the body in days.
- **Ephemeris:** A string which encodes which ephemeris should be used to supersede the given orbital elements. Currently, JPL ephemeris files are used (DE405 for the planets and SPICE files for the moons.)
- **WType:** Body (world) type. Types used are:

WType	Meaning
*	Star
A	Minor planet (asteroid)
AS	Asteroid satellite (moon of asteroid)
DB	Barycenter dynamical point
DL	Lagrange dynamical point
M	Small moon
P	Major planet
W	World (but not major planet)
CP	Periodic comet
C	Comet

- **Primary:** Central body which this body is orbiting. When not given, it is assumed the central body is the Sun. The string EMB is an alternate name accepted for 'Earth-Moon System', the body entry from the Earth-Moon barycenter.

VII.1.5 Spin File Column Descriptions

Each line in the Spin table represents a body defined in the Worlds file, and gives additional information on the rotational properties of the body. The Spin and Worlds files are linked by the ID and IDName columns (and also by the Name column, but that is not guaranteed to be unique).

- **ID:** This one or two character string defines what kind of IDName designation the body has.
- **IDName:** Combined with the ID field, the IDName provides a unique identifier for the body. See the 'worlds file' column descriptions for details.
- **Name** Body name.
- **Rho** Body mean density in units of 1000 kg/cubic metre (i.e. in grams per cc).
- **IFac** Inertial factor. This dimensionless factor f_I relates the total angular momentum of the body to the product of its mass times radius squared,

  $$I = f_I M r^2$$

  Where no information is available, a default value of 0.33 is used.
- **PoleRA, PoleDec** Celestial ICRS position in degrees of the direction of the body's north pole at J2000.0.
- **Meridian** Longitude of planetary meridian at J2000.0, degrees.
- **SpinRate** Rate of change of longitude at J2000.0, degrees per day.
- **J2, J4, J6** J2, J4 and J6 spherical harmonics multiplied by one million.
- **PoleRARate, PoleDecRate** (degrees/d). Rate of change of ICRS polar RA and Dec at epoch J2000.
- **PoleFunc** A code indicating to software which subroutine to use for detailed polar motion function. This and the succeeding functions are based on the Report of the IAU Working Group on Cartographic Coordinates and Rotational Elements 2015 (and later revisions).
- **SpinFunc** A code indicating to software which subroutine to use for detailed spin rate function.
- **InitFunc** A code indicating to software which subroutine to use for detailed perturbation functions for the body's moons.
- **JFile** Filename containing higher order spherical harmonics for the body. Currently only the Earth has such a file. Its contents are:

Coefficient	Value * 1 million
J2	1082.635854
J3	-2.532435346
J4	-1.619331205
J5	-0.2277161016
J6	0.5396348906

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- **IDName:** Combined with the ID field, the IDName provides a unique identifier for the body. These are based on the standard astronomical designations for the bodies except for the planets and moons which use the JPL ephemeris codes for the objects. (The identifiers are explained below, but it's fine to treat them as opaque strings rather than parse them).

ID	IDName Format	IDName Examples	Category	Description
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- **AltName:** Alternate name of the body. Either the formal designation with respect to the object's primary (e.g. Earth is Sol III) or an asteroid provisional designation.
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- **Periapsis:** Periapsis (minimum orbital radius) of the body's orbit around its primary, in km. Note that for comets, the periapsis is often much more accurately known than the semi-major axis. A trailing question mark indicates an uncertain estimate. A trailing letter M (for million) indicates the numerical value should be multiplied by 1,000,000.
- **Ecc:** Orbital eccentricity at the given epoch.
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- **Node:** Longitude of ascending node at the given epoch. Moon orbits given with respect to planetary equator. Heliocentric orbits given with respect to the J2000 ecliptic.
- **Peri:** Argument of periapsis at the given epoch.
- **M:** Mean anomaly at the given epoch.
- **Epoch:** Epoch of the sample orbital elements (SMA, periapsis, ecc, inc, node, peri, M).

- **RotPeriod:** Rotation period of the body in days. (More detailed information given in the Spin file).
- **OrbPeriod:** Orbital period of the body in days.
- **Ephemeris:** A string which encodes which ephemeris should be used to supersede the given orbital elements. Currently, JPL ephemeris files are used (DE405 for the planets and SPICE files for the moons.)
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DL	Lagrange dynamical point
M	Small moon
P	Major planet
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- **Primary:** Central body which this body is orbiting. When not given, it is assumed the central body is the Sun. The string EMB is an alternate name accepted for 'Earth-Moon System', the body entry from the Earth-Moon barycenter.

VII.1.7 Spin File Column Descriptions

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- **ID:** This one or two character string defines what kind of IDName designation the body has.
- **IDName:** Combined with the ID field, the IDName provides a unique identifier for the body. See the 'worlds file' column descriptions for details.
- **Name** Body name.
- **Rho** Body mean density in units of 1000 kg/cubic metre (i.e. in grams per cc).
- **IFac** Inertial factor. This dimensionless factor f_I relates the total angular momentum of the body to the product of its mass times radius squared,

  $$I = f_I M r^2$$

  Where no information is available, a default value of 0.33 is used.
- **PoleRA, PoleDec** Celestial ICRS position in degrees of the direction of the body's north pole at J2000.0.
- **Meridian** Longitude of planetary meridian at J2000.0, degrees.
- **SpinRate** Rate of change of longitude at J2000.0, degrees per day.
- **J2, J4, J6** J2, J4 and J6 spherical harmonics multiplied by one million.
- **PoleRARate, PoleDecRate** (degrees/d). Rate of change of ICRS polar RA and Dec at epoch J2000.
- **PoleFunc** A code indicating to software which subroutine to use for detailed polar motion function. This and the succeeding functions are based on the Report of the IAU Working Group on Cartographic Coordinates and Rotational Elements 2015 (and later revisions).
- **SpinFunc** A code indicating to software which subroutine to use for detailed spin rate function.

- **InitFunc** A code indicating to software which subroutine to use for detailed perturbation functions for the body's moons.
- **JFile** Filename containing higher order spherical harmonics for the body. Currently only the Earth has such a file. Its contents are:

Coefficient	Value * 1 million
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J4	-1.619331205
J5	-0.2277161016
J6	0.5396348906

Part VIII

Object Catalogs

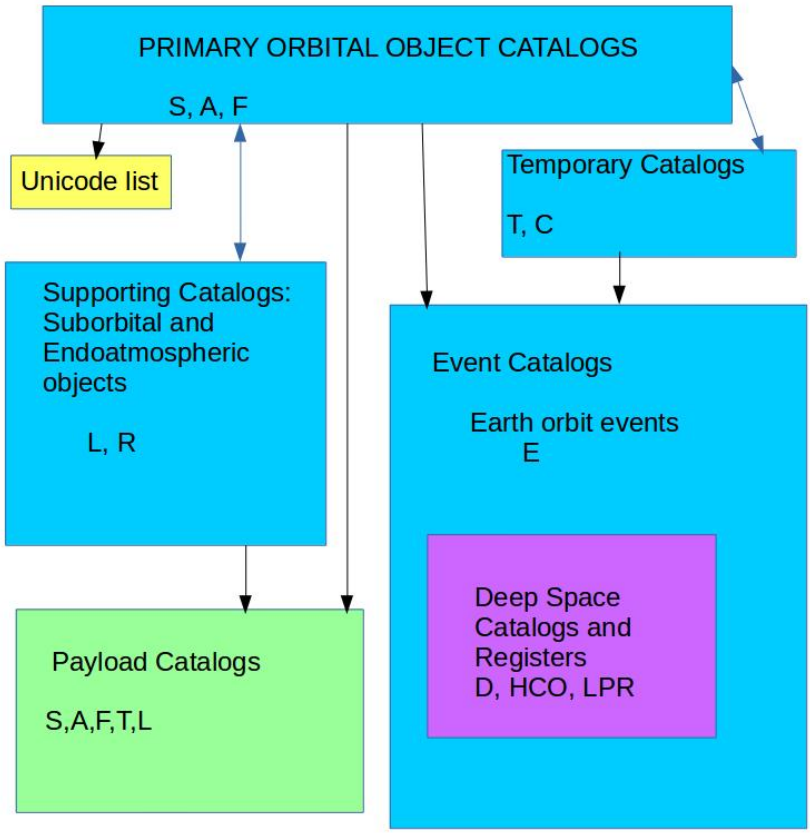
Chapter VIII.1

Main Object Catalogs

VIII.1.1 Object Catalogs Organization

The General Catalog of Artificial Space Objects has eleven object catalogs and five payload catalogs, each with a different role. The object catalogs, while containing different groups of objects, all have the same format - from a relational database point of view, they could be concatenated into a single table without loss of information. The same is true of the payload catalogs. Nevertheless, I find it clearer to keep the catalogs separated.

The diagram below shows the interrelations between the different catalogs. Each payload catalog is paired with an object catalog, but not all the object catalogs have payload catalogs. The various catalogs are summarized in the table below. I then discuss each catalog in general terms, and finally explain the catalog columns.


PRIMARY ORBITAL OBJECT CATALOGS
S, A, F
Unicode list
Temporary Catalogs
T, C
Supporting Catalogs:
Suborbital and
Endoatmospheric
objects
L, R
Event Catalogs
Earth orbit events
E
Deep Space
Catalogs and
Registers
D, HCO, LPR
Payload Catalogs
S,A,F,T,L

Object Catalog	Full name	Object prefix	Description
Primary Orbital Object Catalogs			
satcat	Standard Satellite Catalog	S	Objects from the US Satellite Catalog
auxcat	Auxiliary Satellite Catalog	A	Objects omitted from the US catalog
ftocat	Failed Satellite Catalog	F	Objects which failed to reach orbit
Supporting Catalogs			
lcat	Low Altitude (Endoatmospheric) Catalog	L	Objects whose apogee was less than 80 km
rcat	Suborbital Rocket (Exoatmospheric) Catalog	R	Objects whose apogee was 80 km or more
Temporary Catalogs			
tmpcat	Temporary Catalog	T	Objects expected to receive an S catalog nur
csocat	Complementary Space Object Catalog	C	Observed objects whose mapping to S is unc
Event Catalogs			
ecat	Event Catalog		Later phases in history for objects in primary
deepcat	Deep Space Catalog	D	Objects which reached more that 150,000 kr
hcocat	Heliocentric Register	D	Objects in heliocentric orbit
lprcat	Lunar and Planetary Register	D	Objects in sphere of influence of other worlc
Payload Catalogs			
psatcat	Payload catalog	S	Payload data for payloads in satcat
pauxcat	Payload catalog	A	Payload data for payloads in auxcat
pftocat	Payload catalog	F	Payload data for payloads in ftocat
plcat	Payload catalog	L	Payload data for payloads in lcat
prcat	Payload catalog	R	Payload data for payloads in lcat
pdeepcat	Payload catalog	D	Payload data for payloads in deepcat which
Derived Catalogs			
currentcat	Summary catalog	S/A	Most recent phase for each S and A object, v

Chapter VIII.2

Main Object Catalogs

VIII.2.1 Primary Orbital Object Catalogs

VIII.2.1.1 The Standard (S) Satellite Catalog

Since the late 1950s the US government has maintained a catalog of satellites (often referred to as the SATCAT). Each satellite is given a sequential number (1 was the rocket stage from the first Sputnik). These numbers are sometimes referred to as SSN numbers.

In GCAT, each entry in the S catalog (Standard Satellite Catalog or satcat) corresponds directly to the corresponding entry in the US catalog; entry S00001 corresponds to SSN 1, entry S40000 corresponds to SSN 40000. The S catalog contains additional metadata not present in the US catalog, described later in this chapter. Note that I will use SATCAT in upper case to refer to the US catalog, while the lower case version will always refer to GCAT's S catalog.

By convention I render entries 1-99999 in each catalog with 5 digits, in this case S00001 to S99999. I then jump to 9 digits for objects 000100000 onwards (S000100000 in this case). I am optimistic that we won't reach S999999999 before I retire, so that'll be Somebody Else's Problem.

There are, as always, complications. Not infrequently, the SSN numbers associated with two space objects are swapped, or an SSN number is reassigned to a different object and the previously assigned object is now not in the catalog. However, archival TLE (Two Line Element) sets for the previous object remain associated with the same catalog number, potentially causing confusion. Although I would rather not reassign numbers, in the interests of practical compatibility the S catalog entry corresponds to the object MOST RECENTLY ASSOCIATED with that catalog number (and the GCAT is updated as required to reflect this).

The SSN number is really associated with an object tracked by the US space tracking team (currently the 18th Space Control Squadron and associated organizations). The set of TLEs associated with that catalog number, for the most part, define the SSN. The association of that catalog number with a physical object (satellite, rocket, debris) is an inference. Sometimes I disagree with the association made, and the S catalog reflects that. The harder problem is when you have, say, 3 SSN tracked objects and three known payloads, but you have no idea which is which. This can occur, for example, when three externally similar cubesats deployed from the same vehicle immediately fail, so even the satellite owners don't know which is which. In this case the SATCAT will just have them as 'OBJECT C', etc., and not attempt to make an identification. I prefer to make an arbitrary assignment of the three objects to catalog numbers but flag the assignments as uncertain. This lets me enter all the metadata such as country, owner, name etc. and so statistical counts such as number of payloads associated with a given country will come out right.

Some satellites are made up of several attached sections. When I deem that these separate sections are of sufficient interest to deserve their own catalog entry (for example because their metadata are interestingly different) I create additional entries in the auxcat (see below), and choose one of the sections to be associated with the S entry. As an example, for CORONA satellites both the CORONA payload and the attached Agena rocket stage, as well as

any Agena aft rack attached payloads, get catalog entries. In such cases the S entry is given to the payload; metadata includes the information that the CORONA and the Agena remained attached until reentry.

The SATCAT associates debris objects with a particular launch but does not identify them in detail; again, I make my best guess as to the nature and origin of particular debris objects.

The US catalog is coy about certain military and intelligence satellites belonging to the US and its allies. Usually a cover name (e.g. USA 304) and a launch date are provided, but no orbital data or reentry date. Since I do not have access to secret information, I am free to speculate. Usually it's not very hard and identifications of secret satellites with particular programs and orbits mostly have a high degree of confidence.

VIII.2.1.2 The Auxiliary (A) Satellite Catalog.

The auxcat contains entries for objects not in the standard catalog. The catalog numbers have the prefix 'A', so the first entry is A00001.

Objects end up in the A catalog for a variety of reasons:

- Object should have been in S catalog but was omitted (not tracked, or administrative oversight)
- Object is attached to another object (see discussion in S catalog section) Some special cases include Shuttle payload bay cargo items, external ISS components, and internal ISS cargo entries used for mass accounting.
- Object was in orbit, with perigee well above the atmosphere, but was deorbited after less than a full orbit.
- Object had positive perigee but reentered on first object.
- Object had mildly negative perigee. This includes some rocket stages (e.g. Ariane core stages) and some objects released during reentry of spacecraft (discarded service modules, parts of film recovery capsules). I like to perturb the boundaries of definitions and see what falls in. These objects don't strictly count as satellites by my rules, but they are 'close enough' to be interesting.
- Objects with greater total energy per unit mass than a low orbit satellite. This includes some high apogee (above 10,000 km) suborbital flights and some high velocity reentry tests.

Sometimes objects already in the A catalog get a US SATCAT number - for example, external ISS experiments which are unexpectedly discarded into orbit at the end of their lives. In this case the object is moved to the S catalog, and its A catalog number is retired. In previous internal use of the catalog I've reused such freed A catalog entries, but with the formal release of GCAT it is my intent that any such reassigments will be recorded formally and the empty catalog entries will not be reused.

When it is clear that an object is likely to receive a SATCAT number in the near future, it is placed in the T catalog (see below) instead of the A catalog.

VIII.2.1.3 The Failure To Orbit (F) Satellite Catalog

The ftocat (F, Failure to orbit catalog) contains objects from failed launches which were expected to have had satellite catalog entries if the launch had been successful. The objects are upper stages and payloads from launches with 'F' launch designations (e.g. 1959-F01).

Note that objects from 'U' marginal-orbit launches (1959-U01 etc) are in the auxcat rather than the ftocat. Objects from pad explosions ('E' launches where no actual launch occured) are in the lcat.

I have gone to some trouble to estimate the best-guess suborbital perigee, apogee and inclination for the objects in the F catalog. If you have better data for a particular launch, please let me know.

VIII.2.2 Supporting Catalogs

The two supporting catalogs are relatively less complete and are of variable data quality, as described below. Caveat emptor - maxime quando sine sumptu est!

VIII.2.2.1 The Rocket (R) and Suborbital Object Catalog

The rcat contains objects whose apogee was probably above 80 km but which did not reach orbit (i.e. are not included in the orbital catalogs). The main purpose of the rcat is to record suborbital stages of orbit launch vehicles, allowing me to specify the detailed configuration of that particular flight vehicle - it gives me a place to put the type and serial number of the stages. Other metadata - mass, size, (sub)orbital parameters - are sometimes included but typically with approximate or guessed values. Orbital inclination values of zero should be ignored.

Object associated with suborbital launches are also included. The catalog is not complete in this respect and the caveats on the quality of the metadata for such objects apply even more strongly. But it gives me a place to store parameters of sounding rocket and missile payloads when I know them.

VIII.2.2.2 The Low-altitude (L) Endoatmospheric Object Catalog

The lcat contains objects whose apogee was probably below 80 km. Like the rcat, the main purpose of the lcat is to record the stage configuration of orbital launches, serving as a place to store the details of lower stages (first stage, strap-on boosters, etc) that did not leave the atmosphere. As for the rcat, but even more so, metadata on mass, size and trajectory are approximate or guessed and should usually be treated with skepticism. (For a few cases, such as Apollo-Saturn lower stages, the data are accurate.)

Mostly the lcat is used to store low altitude objects associated with a launch which also had exoatmospheric parts. However, some objects associated with purely endoatmospheric and mesospheric launches are included. Nevertheless, the presence of a low altitude launch in the launch lists does not guarantee its associated objects will exist in the lcat.

As noted above under ftocat, objects from launches which exploded on the pad are also included in the lcat.

VIII.2.3 Temporary Catalogs

Unlike the main catalogs, the catalog numbers in the T and C catalogs are not assigned sequentially. Currently the first object in the C catalog is C00100.

The tmpcat contains objects which are (1) in orbit, and (2) do not have US satellite catalog numbers but are expected to get them in the fairly near future. This usually means objects which are aboard the ISS or a cargo ship and slated for later deployment, such as cubesats to be ejected from the Kibo module; or subsatellites to be ejected from another satellite; or objects such as the Crew Dragon Trunk which is left in orbit at the end of a Crew Dragon mission. Starlink and other megaconstellation satellites may also receive T numbers based on the 70000-series numbers used by Celestrak Supplemental TLEs before identifications are made with the SATCAT numbers.

When the T catalog object does get a US SATCAT number, its GCAT identifier is changed. The object is added to the S catalog, and its T catalog number is removed (and later reassigned). Users should therefore beware of referring to T catalog numbers - they are ephemeral and their reassignment is not formally recorded. They are a compromise, allowing the instantaneous catalog to reflect the state of things as well as possible, while avoiding reassigning any ‘permanent’ catalog entries.

Objects which may never get catalog numbers - such as known objects which nevertheless have not been tracked - are instead put in the auxcat as described above.

VIII.2.3.1 The Complementary Space Object (C) Catalog

The csocat (C catalog) is a rather different construct. The objects here are those detected and observed by someone other than the US space tracking network, and not immediately identified with an existing SATCAT entry. These include objects found by hobbyist observers, astronomers,and non-US satellite tracking groups. 'Analyst objects' from the US space tracking network are also included.

(I will admit that the 'C' originally stood for Canadian Space Society, the initial source of hobbyist TLEs in the 1990s thanks to Ted Molczan).

Since the objects in the C catalog may or may not be also present in the S catalog, I do not include C catalog objects in my statistical summaries (of numbers of satellites launched, etc.).

C catalog entries are initially assigned the value NNA (No Number Assigned) in the Satcat number field (see column descriptions). Then, when and if a C catalog object is later identified with an S catalog entry, the actual SATCAT number is placed in the field to flag that the object is no longer 'unaffiliated'. The user may therefore ignore all C catalog entries whose Satcat number is not 'NNA'.

Types of objects in the C catalog include (with catalog number ranges used as of mid-2020, but not guaranteed to be rigidly adhered to):

- (C00100-C00399) Objects found by Near-Earth asteroid astronomers and cataloged by Bill Gray (project-pluto.org) PThese include distant space junk but also some natural asteroids.
- (C10000-C29999) Objects found by the ISON and Vimpel networks in Russia
- (C70000-C79999, C90000-C99999) Objects found by hobbyist observers (satobs.org) and cataloged by Ted Molczan, Mike McCants and colleagues.
- (C80000-C89999) 'Analyst objects' from Space-Track.org given temporary satellite catalog numbers. The entry in the C catalog has the same catalog number as assigned by Space-Track, but with the C prefix. These numbers generally are between 80000 and 90000 (although some have occurred in the 70000s.)

Since the objects in the C catalog are often of unknown origin, the launch dates and international desigations in the catalog are meaningless and should be ignored. The orbital metadata, however, are based on actual data.

VIII.2.4 Event Catalogs

The event catalogs consist of the main Event Catalog, for Earth orbiting objects, and the deep space catalogs which are only briefly discussed here.

VIII.2.4.1 The Event Catalog

The SATCAT data model is basically that launches put a set of objects in orbit at a given date (launch date), some of which eventually (decay date) reenter. The structure of the main GCAT object catalogs adds the idea that objects associated with a launch don't all appear on the launch date, but may instead separate from one of the other objects at a later (sep date) time. This model covers the vast majority of objects in the catalog, but some have more complex histories. The Event Catalog (ecat) is an attempt to accommodate those more complex histories.

We introduce the idea that each object in GCAT has a history composed of multiple 'phases'. A new phase typically begins with either separation from a parent or attachment to a new parent. Parents may be GCAT objects or GCAT bodies (worlds). Another kind of phase is less physical: the object changes critical metadata - either its name or its owner. For a typical object, there is only one phase, which begins with separation from the parent object and ends with reentry - or is still in progress. But for some objects there are many phases involving renaming, on-orbit resale, docking and undocking, some other form of attachement to another object (e.g. EVA assembly), bringing inside or outside a space station, entering deep space, entering or leaving the gravitational sphere of influence of a

new central body, landing or taking off from such a body, or returning to the Earth-Moon system. Each such phase can be characterized by:

- - A parent (GCAT object or body)
- - Phase start time
- - Phase end time
- - Event that ends the phase
- - New parent or destination at phase end

All of this information is conveniently represented in a record identical to the normal satellite catalog entries. Thus, objects with multiple phases are represented by multiple entries with the same catalog identifier; each entry represents a phase. So that this complexity can be ignored when not useful, the main object catalogs contain only a single entry for each object, the first phase. Second and subsquent phases are stored in the ecat. The ecat records are in chronological order, although this is mainly for my convenience. Thus for example GCAT object A07959 has five phases, leading to one entry in auxcat and four entries in ecat.

The details of phases are captured in the phase-ending event type, which is stored in the 'status' field of each phase record. The various options are defined in detail in the status column description.

VIII.2.4.2 The Deep Space Catalog

Objects which pass the EL1:4 deep space boundary at about 150,000 km from Earth are given a 'D' catalog designation in addition to their entries in the S or A catalogs. The S or A catalog uses the decay date, status and destination fields to record the object's transition to deep space and its new catalog number. The corresponding DeepCat entry records the object's arrival in deep space and its departure to its next phase - reentry, entry to the lunar sphere of influence, or departure from the Earth-Moon system. The Heliocentric Register and the Lunar and Planetary Register then record subsequent phases of the object as it visits different bodies in the solar system, using its D catalog designation.

I recognize that the reassignment of a new catalog number to an object once it leaves Earth orbit may be inconvenient. A crossindex between D designations and S/A designations is provided at (See https://planet4589.org/space/gcat/data/cat/deepindex.html)

The research behind the separate release of the Deep Space Catalog is discussed more fully at https://planet4589.org/space/deepcat (https://planet4589.org/space/deepcat) . While I consider it a part of the General Catalog of Artificial Space Objects, it is a relatively self contained subset and is documented and published on an independent release schedule. The deepcat files within GCAT are kept more up to date.

VIII.2.5 Payload Catalogs

A lot of the metadata I track for satellite payloads (end of operation date, payload category, UN registration information, etc.) is not relevant for debris objects. To save space in the main catalogs, I pull out this extra information into separate 'payload catalogs'. Each object from the main catalogs has zero or one record in the corresponding payload catalog.

For example, GCAT object A00489 appears in the main catalog 'auxcat'. It also has a record in the corresponding payload catalog 'pauxcat' with the additional payload metadata. The payload catalogs have the same name as the corresponding main catalog, except with a leading 'p', so it's pretty easy.

The payload catalogs are psatcat, pauxcat, pftocat and ptmpcat. In addition there is a plcat corresponding to the lcat, containing limited payload info for a few payloads for launches which exploded on the pad and so didn't make it into ftocat, and similarly prcat and pdeepcat for some special cases in rcat and deepcat.

Of greatest interest is probably the end-of-life date information in psatcat, since a comprehensive satellite operational lifetime dataset has never before been published. The psatcat also is useful for statstical analyses since it characterizes satellites as nonprofit, commercial, civil or defense, and as communications, imaging, navigation, science, etc.

VIII.2.6 Unicode list

The usatcat file contains a list of satellite names in unicode with the correspoding GCAT catalog numbers. Only objects whose name is not in the Latin alphabet are included. This data should really just be an additional column in the payload or object catalogs but some of my older data entry software isn't completely smooth in the way it handles unicode, so it was easier for me to keep the unicode data separately in a dedicated file.

The file is a simple text file with two columns, the GCAT catalog identifier and the unicode satellite name. It is in alphabetical order of GCAT identifier, so auxcat entries precede satcat ones.

VIII.2.7 Derived Catalogs

VIII.2.7.1 Current Catalog

The currentcat file is provided as a useful subset of GCAT. It is largely derived from the information in satcat, auxcat and ecat. There is one record for each entry in satcat and auxcat; it is the **most recent** phase for each object. In the main GCAT, if you want to know the current state of an object in satcat, you also have to check through all its records in ecat to find the final one. I decided this is such a common use case that I'd do the work for you and make a 'most recent phase' catalog.

The catalog contains a subset of the fields in satcat, and a couple of new fields: the **Active flag** which is 'A' if the object is a currently active payload, and the first character of SatType (i.e. P for payload, R for rocket, C for component or D for debris) otherwise. and the **extended status** field which decodes the Status field information into a more readble text field.

Space probes have two catalog IDs, the regular JCAT for their near-earth launch phase and a Deep Space Catalog ID beginning with 'D'. The currentcat has a DeepCat column which gives the 'D' identifier for the object if one exists, corresponding to the object's JCAT field in the deepcat file.

There is one set of data not in the other catalogs: for objects currently in Earth orbit, the most recent available orbital data are provided in currentcat rather than the 'canonical' early orbit data provided in, e.g., satcat.

VIII.2.7.2 Launchlog File

The LaunchLog file is a list of all orbital launch attempts in chronological order. The data are extracted from the launch lists and the payload catalogs. It joins the launch and payload information to have one line per orbital payload with the payload name and the launch information. It replaces and supersedes the earlier launchlog.txt file on my site.

VIII.2.8 Object Catalog Column Descriptions

- The first few fields (JCAT, Satcat, Piece, Type, Name, PLName, LaunchDate) identify the object and name it.

– **JCAT**

The General Catalog (GCAT) uses an alphanumeric identifier (JCAT, originally Jonathan's Catalog ID) to uniquely tag space objects. The identifier consists of a single prefix letter followed by a sequence number with either 5 or 9 digits (examples: A00022; S101234009). The 9 digit case is not yet in use, but is supported in anticipation of the introduction of 9-digit SATCAT numbers by the US DoD.

The leading letter tells you which object catalog the object belongs to, as follows:

JCAT letter	Catalog
A	auxcat (Auxiliary catalog)
C	csocat (Complementary catalog)
D	deepcat (Deep space catalog)
F	ftocat (Failed to orbit catalog)
L	lcat (low altitude catalog)
R	rcat (suborbital catalog)
S	stdcat (Standard catalog)
T	tmpcat (Temporary catalog)

Note that there are no prefix letters associated with the ecat (event catalog), or the heliocentric and lunar-planetary registers, since they contain only objects already defined in the other catalogs.

Sequence numbers in the A, D, F, L, R, and S catalogs are assigned sequentially starting with 00001. However, occasional numbers may be missing due to deletions of spurious or reassigned entries.

Sequence numbers in the C and T catalogs are not assigned sequentially.

Sequence numbers in the S catalog are in one-to-one correspondence with the US SATCAT catalog numbers. Thus, S46112 corresponds to SATCAT satellite 46112 (2020-056A).

In exceptional cases, future releases of GCAT may reassign existing catalog numbers. Any such reassignments will be recorded explicitly in an accompanying table. However, users who have found earlier (pre-GCAT) JCAT catalog numbers that crept into my public files have no such guarantee - in partcular, auxcat numbers previously seen in public files may now refer to different objects.

– **Satcat**

For objects in the US Satcat, this field contains an integer value which is the US SATCAT number. In the S catalog, this will be the same as the JCAT sequence number.

However, one US SATCAT number can correspond to multiple GCAT objects which are attached to one another. For example, SATCAT number 00032 corresponds to GCAT objects S00032 (Discoverer 11 payload), A00046 (Agena 1055 rocket stage), and A00047 (TOD experiment attached to Agena stage). All these objects have 00032 in the Satcat field.

Objects which do NOT have US SATCAT entries instead have a string in this field explaining why they don't.

Value	Meaning
NNA	No (satcat) Number Assigned. Object should be in SATCAT but is not, or we don't know which object in SATCAT maps to this object.
NNA A	No SATCAT number because remained attached to parent object
NNA C	No SATCAT number, component of complex object such as space station
NNA E	No SATCAT number because is an EVA spacesuit. These do not get recorded in SATCAT.
NNA I	No SATCAT number because object remained inside parent object
NNA P	No SATCAT number because completed less than one full orbit
NNA R	No SATCAT number because separated into marginally suborbital trajectory during parent reentry.
NNA S	No SATCAT number because launched into marginally suborbital trajectory
NNA T	Not in SATCAT because object was a separate object in orbit transiently, for only a few seconds (e.g. CORONA film capsule)
NNA X	Not in SATCAT because launch is a marginal orbit case
NSO	No SATCAT number because suborbital

– **Launch_Tag:** an identifier for the launch. For orbital launches, this is the international (COSPAR) designation of the launch. For other launches, the designation is assigned by me using a pseudo-COSPAR format of the form yyyy-Xnnn, where yyyy is the year of launch, X is a letter, and nnn is an integer. The designations are explained in the introduction. See the detailed description in the (See Launch Designations) section of the introduction. This tag matches the launch tag in the launch lists and may be used to join the two databases (launches and objects).

– **Piece** The piece designation for the object. For objects in the US SATCAT this is the COSPAR (International) designation (e.g. 2020-032A); the launch component (e.g. 2020-032) usually but not always matches the Launch Tag.

  See the section on launch and piece designations in 'definitions and conventions' for details.

– **Type**

  This field contains a SatType string as defined in the (See SatType section.)

  This field tells you something about what kind of object this is. At the coarsest level, we characterize the object as payload (P), rocket stage (R), component (C) or debris (D). A component is a functional part of the spacecraft or rocket that is deliberately or accidentally ejected - a fairing, for example. A debris object in this sense is a fragment from a satellite breakup, usually accidental - although fragments from deliberate explosions or collisions are included in this category.

  At a finer level the type string provides a lot more information for special cases. See the (See SatType definition) for more details.

– **Name** My recommended name for the object. The name is based on that used by the owner/operator of the object. In cases where the original name is in a non-Latin character set, see the associated (See GCAT unicode name list) for a representation of the name in Unicode.

  'X part' indicates that the object is an unidentified component that separated from X. 'deb X' indicates the object is a debris object from the breakup of X.

– **PLName**

  The PLName (Payload Name) is an alternative name for the object. When available, it is the name used prior to launch by the manufacturer.

Some debris objects have a string with RCS followed by a number in the PLName field. This refers to the radar cross section in square metres. The RCS values obtained from early 2000s era SATCAT releases are unreliable, but may indicate which objects are particularly small or large.

Some objects have a PLName beginning with the string '[UNID'. These objects are marked with an asterisk in the US SATCAT. They are unidentified debris objects; their piece designations (international designations) are believed to associate them with the wrong launch.For example, there are a lot of small component debris objects associated with Soviet Strela-2M communications satellites in rather similar orbits. When such an object is discovered years after its launch, the effects of drag and perturbations are such that while it is obvious from the orbit that the object comes from a Strela-2M, there's no way to tell exactly which Strela-2M it is from.

– **LDate** (Launch Date).

The launch date is given in UTC, with 1 day precision. More accurate launch times are given in the launch lists. Usually you can map the object to a launch using the international designation, but see the discussion in the Parent field below for exceptions.

- The next set of fields (Parent, SDate, Primary, DDate, Status, Dest) describe the current 'phase' of the object.

  – **Parent** The Parent field can be either

    * the 'parent object' which the object is attached to at the start of the phase, or
    * the central body whose gravitational sphere the object is leaving at the start of the phase.

  The parent object is an (See Extended JCAT Identifier) - it's usually just a JCAT ID but sometimes there's a port location appended to make it more specific.

  Also, in some cases an asterisk is appended to the identifier. This is a flag that the launch designation in the Piece field might not be what you'd expect from the launch designation of the parent. In the normal situation, for example, S45920 has Piece designation 2020-048A, and its parent S45921 has 2020-048B - both are 2020-048 launch pieces. But S45916 has Piece designation 1998-067RP, and its parent is A09547* with piece designation 2020-011, an apparent contradiction. In fact 2020-011 is the correct launch for both, with launch date 2020 Feb 15, but USSF assigns 1998-067 piece designations and a 1998 launch date for all objects released form the ISS. I added the asterisks to facilitate automatic checking: it lets you know to be careful about the launch date and launch information for this object. The asterisk means 'don't be surprised if there's a mismatch'; it doesn't *guarantee* that there is a mismatch.

  The central body names are given in the Worlds file.

  – **SDate**
  Separation Date (or Phase Start Date).

  This UTC date (in (See Vague Date) format) is the start time for the current phase. In the simplest cases, it is the time when the object separated from its parent.

  – **Primary**
  (or Central Body).

  The value of this field is a string representing the central body for the current phase. These strings are defined in the Worlds file. (Usually, the central body is Earth.)

  – **DDate**
  Descent Date (or Phase End Date).

  This UTC date (in (See Vague Date) format) is the end time for the current phase. In the simplest cases, it is the time when the object reentered the atmosphere. If blank, the phase is still in progress.

  – **Status** This field gives the event that ends the current phase.

  See the discussion on (See phases) in the definitions section.

- **Dest** (Destination) This field gives the destination of the current phase. This may be the reentry or landing location, the JCAT identifier for the new parent object that the object is now attached to, or the world name of the body whose gravitational sphere the object is now entering.

  See the discussion on (See phases) in the definitions section.

- The next set of fields (Owner, State, Manufacturer, Bus, Motor) describe ownership and construction.

  - **Owner** The (See OrgCode) for the owner/operator of this object.
  - **State** The (See OrgCode) for the country/state associated with the owner/operator.
  - **Manufacturer** The (See OrgCode) for the entity that built the object.
  - **Bus** This string gives the spacecraft bus (chassis) type. It isn't standardized, and many objects are one-off. It's most useful for things like commercial communications satellite where satellites of the same type are used by many different owners.
  - **Motor** The name of the main thruster or rocket engine in the object's propulsion system. Particular attention has been paid to determining the model of apogee motor or apogee thruster used on satellites, as this has not previously been well documented. The entries in this field have not been standardized but some information may be found in (See the Engines file.)

- The next set of fields (Mass, DryMass, TotMass, Length, Diameter, Span, Shape) describe the object's mass and dimensions.

  - **Mass, MassFlag** Mass of this GCAT object in kg, at launch (meaning, at initial orbital insertion), not including mass of attached objects.

    If the MassFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **DryMass, DryFlag** Dry mass of this GCAT object (which is a reasonable proxy for the mass of the object after its active lifetime). Value is in kg. Does not include the mass of attached objects.

    If the DryFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **TotMass, TotFlag** Total mass of this object at launch (orbital insertion), in kg, if nonzero. For a set of GCAT objects attached to each other the total mass will be given for one of them (usually the S catalog entry), and the others will have TotMass = 0. If you add up the Mass values for each of the objects, the result should be equal to the TotMass.

    If the TotFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **Length, LFlag** Longest dimension of the main body of the object in metres.

    If LFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Diameter, DFlag**

    The Diameter is the second longest dimension of the main body of the object in metres. Many objects are cylinders or square-sectioned cuboids, so I haven't bothered to give a separated depth and width. The length times the diameter is a reasonable approximation to the cross-section of the object not counting appendages.

    If DFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Span, SpanFlag**

    The Span is the largest dimension in metres of the entire object across all appendages (booms, solar arrays, antennae). To avoid hitting the object you should stay outside a sphere of diameter equal to the Span.

    If SpanFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Shape** A string giving the approximate shape of the object. This is included really because it was in the old RAE table of Earth satellites. It isn't a substitute for a 3D CAD model though!

- The following set of fields (ODate, Perigee, Apogee, Inc, OpOrbit, OQUAL) describe a ‘canonical orbit’. The orbit of an object changes with time due to atmospheric drag and other perturbations, and in some cases it changes drastically due to active manuevering. I pick one orbit (the ‘canonical orbit’) that is representative of the spacecraft’s early operations, after initial positioning, to include in the catalog. But detailed analysis should consult detailed orbital data versus time for each object, from the Space-Track TLEs or other sources.

  – **ODate** Orbit Epoch Date. Epoch of canonical orbital data, Vague Date format.

  – **Perigee, PF** Conventional perigee height in km of canonical orbit. Equal to perigee radius minus equatorial radius of central body.

    If PF is equal to ’?’ the value is a guess.

  – **Apogee, AF**

    Conventional apogee height in km of canonical orbit. Equal to apogee radius minus equatorial radius of central body.

    If AF is equal to ’?’ the value is a guess.

  – **Inc, IF**

    Inclination of canonical orbit in degrees with respect to coordinate system equator. Heliocentric orbits are given with respect to the J2000 ecliptic. Earth orbits are given with respect to the equator of date (strictly, TEME equator). Orbits around other central bodies are given with respect to the IAU equator of that body.

    If IF is equal to ’?’ the value is a guess.

  – **OpOrbit**

    Orbit type of the canonical orbit.

  – **OQUAL**

    Orbit Quality Note.

    Source of the canonical orbit. Usually blank; it’s a place for me to make a note to remind me where I got the orbit data from in special cases. ’J’ means I estimated the orbit myself.

- The final field really belongs with the first set, with additional names for the object.

  – **AltNames**

    A comma-delimited list of further alternative names for the object.

VIII.2.9 Payload Catalog Column Descriptions

- **JCAT** The JCAT identifier (letter followed by digits) identifies the object and ties this catalog to the object catalogs.

- **Piece** The Piece field contains the piece designation, usually the COSPAR ‘international Designation’. It is the same as that given in the object catalog and is repeated here for human-readablity and convenience.

- **Name** The name in the payload catalog is the name given in the UN satellite registry, where available. I usually fill in another name (usually Name or PLName from the object catalog) where not, for readability.

  If the satellite is UN registered (a registration document is noted in the appropriate field) but no name was given in that registration, I enclose the name used in square parentheses to indicate that it’s not official. For example, for object S01328, the UNReg field contains ”A/AC.105/INF.107”, indicating that the satellite is registered. The name is given as ”[Explorer 27]”, the square brackets indicating that no name was actually given in the registration document.

  As with other UN registration metadata reproduced here, the UN name data are provided so you can compare UN registration information with the primary information in the catalog. In this instance, the name in the object catalog (or even better, in the unicode name list) is generally to be preferred over the name given here.

- **LDate** (Launch Date). Same as in object catalog, provided for convenience and cross checking.

- **TLast**

  Last Known Active Time.

  The date on which the satellite was most recently known (by me) to be active. Often, it's hard to find out whether a satellite is still operating, especially if it does not actively control its orbit. It is therefore helpful to know if it's been known to be active fairly recently, or whether there has been no news of it for decades. Caveat: I only update this infrequently and patchily. The fact that *I* haven't heard news of the satellite operating since 2006 doesn't mean that obvious evidence of its continued activity doesn't exist.

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that no information is available.

- **TOp** End Operation Date.

  The date on which the satellite is believed to have completed regular operations. This is a loosely defined concept. The idea is that after this date the satellite may have been used for on-orbit tests and training, or may still have had an active radio beacon, but was not in use for its primary purpose. (That's not the same as 'end of primary mission', which can be much earlier).

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that the payload is believed to be still operating.

- **TDate** End of Transmission Date.

  I also refer to this as the "Dead, Dead, Dead" date - it is the date after which the satellite became completely silent and unresponsive, or when no further contact was made by its owners. I prefer to use this as an end-of-life date. (There is some ambiguity here. Some old satellites are abandoned by their owners but still emit a radio beacon.)

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that the payload is believed to be still transmitting.

- **TF**

  End of life special flags. Flags here have the following meaning:

Value	Meaning
D	Recovery capsule which spent a matter of seconds as a separate orbiting object before the deorbit burn.
E	Deep space mission, may be operating outside Earth orbit.
U	This satellite is thought to be still working but the UCS active satellite list suggests it is not.
X	Satellite end of life date is a guess and satellite could still be partly operating.
Z	Zombie satellite: no longer controlled, but continues emitting a beacon signal.

  These flags were added to the data to make automatic comparisons with the UCS active satellite list easier. (Easier for me, mostly.)

- **Program**

  This field identifies groups of related satellites. I use it to drive the organization of mission logs which I am preparing for a future release.

- **Plane**

  This (new) string-valued field can be used to label orbital planes or shells in a constellation. At the moment I am using numeric shell numbers to group OneWeb satellites.

- **Att**

  Attitude control flag

  The field describes the type of attitude control. However, values of this field have not yet been systematically filled in.

Value	Meaning
-	Unknown
G	Gravity gradient stabilized
P	Pointed, 3-axis stabilized
PS	Sun pointed
PN or N	Nadir (Earth) pointed
S	Spin stabilized
U	Unstabilized

- **Mvr**

  Maneuverability Flag.

  This field indicates whether the satellite has or had a propulsion system capable of changing its orbit. Valid nonempty values are 'M', indicating that the satellite is manueverable, and 'D', indicating that the satellite's propulsion system is capable of a single burn to deorbit the satellite.

- **Class** The class is a one- or, rarely, two-letter character string used to classify satellites as military, commercial, etc. This is usually based on the status of the owner/operator organization, but with some exceptions (for example the Vostok spaceships are considered civil even though operated partly by the Soviet military). The four supported single-letter values are:

Value	Meaning
A	Amateur/academic/non-profit
B	Business (commercial)
C	Civil (government but not military)
D	Defense (govt. military, intelligence)

  Two-letter combinations of these have the obvious meaning: e.g. BD means a satellite which has both commercial and military use. In general, I find the concept of 'dual-use' to be mostly unhelpful. Almost everything is potentially usable for military purposes, but almost everything is nevertheless fairly clearly assignable to one of the above four principal uses. I only use the dual-use two-letter characterization for 16 (as of 2020) satellites in the catalog where the management and operation is clearly shared between two organizations connected with different class values.

- **Category**

  The category is a different classification, orthogonal to the class. It describes the general purpose of the satellite. A satellite may have one or two categories.

  In the case where two values are present, the values in this field are concatenated with a slash between them - for example 'IMG/TECH'.

  Uncertain categories have an appended question-mark.

  An asterisk appended to the category indicates that the orbital data for the satellite are (or formerly were) kept secret by the US government.

  The defined categories are:

Value	meaning
AST	Astronomy
BIO	Biology and life sciences
CAL	Calibration (for atmospheric density, space surveillance radars, etc). Usually passive.
COM	Communications
EDU	Educational purposes.
EOSCI	Earth observing science, except imaging
EW	Missile early warning, including ballistic missile defence tracking
GEOD	Geodesy
IMG	Imaging (optical), except meteorology
IMG-R	Imaging (radar)
INF	Infrastructure (support structures, deployers etc)
MET	Meteorology (imaging)
MET-RO	Meteorology (radio occultation)
MGRAV	Microgravity experiments
MISC	Miscellaneous (e.g. burial services)
NAV	Navigation, positioning and timing
PLAN	Deep space related mission
RB	Rocket body (rocket upper stage)
RV	Reentry vehicle
SCI	Scientific studies, except astronomy and Earth observing
SIG	Signals intelligence
SS	Spaceship, i..e human spaceflight related (including cargo ships)
TARG	Target for missile defense or antisatellite tests
TECH	Technology and training
WEAPON	Weapon, including antisatellite experiment and FOBS

- **Result**

  The Result flag is a single letter used to identify satellites which failed early in their mission. Values of this flag are:

  - S - success
  - F - failed
  - U - Unknown
  - N - No test (e.g. rocket failed before satellite had a change to operate).

- **Control**

  Location of the spacecraft operations control center. I have not filled this field in systematically yet, it's really a 'future project' (maybe never). However those values which are filled in should be reliable.

- **Discipline**

  For scientific satellites, this field may note one or more specific scientific areas in which the satellite is carrying out research. Values used to date are:

Value	Meaning
A	
AIS	Automatic ID system (ship tracking)
ALT	Radar altimeter
ATM	Atmospheric science
AUR	Auroral research
BIO	Biology and life sciences
CR	Cosmic rays
ENV	Space enviromental exposure
ESCI	Earth sciences
F	Electromagnetic fields
GEOD	Geodesy
GRA	Gamma ray astronomy
IMG	Imaging
ION	Ionospheric research
IRA	Infrared astronomy
M	Humans in microgravity and related research
MG	Microgravity experiments
MM	Micrometeorite studies
OA	Optical astronomy
P	Particles
PHY	Basic physics
PL	Planetary science
RFA	Radio-frequency astronomy
SMA	Submillimeter astronomy
SOL	Solar physics
SX	Solar X-ray astronomy
TECH	Technology experiments
UVA	Ultraviolet astronomy
XNAV	X-ray navigation
XRA	X-ray astronomy

An asterisk in the discipline field was used to indicate a major mission, as an attempt to distinguish major and minor missions. However I stopped adding the asterisks at least a decade ago, and don't plan to update them soon, so I recommend just ignoring the asterisks.

- **UNState**

  If the satellite is registered with the UN, this field contains the OrgCode string corresponding to the country which registered it. If this country is not the owner country I have assigned the object to in the object catalog, an asterisk is appended to the OrgCode to alert you.

  If the satellite has not been registered with the UN, the field contains, in square parentheses, the OrgCode string corresponding to the country which I think *ought* to have registered it. (If this isn't the same as the owner country in the object catalog, an asterisk is appended to the closing square parenthesis - e.g. '[US]*').

  If the satellite has not been registered, but it's not a 'real payload' (minor subsatellite, etc.) and I don't think it requires registration, the field is left blank.

- **UNReg**

  The UNReg field gives the ID of the UN registration document in which the satellite was registered, if it was. These documents are usually in the ST/SG/SER.E series or the A/AC.105/INF series.

  An appended asterisk indicates that the online UN site reports that the satellite was registered in a particular document, but the document isn't yet available on that site, so I can't see what it actually says! Unfortunately some US registrations have been 'in process' for several years now (as of mid 2020).

  A blank entry indicates that the satellite has not been registered with the UN.

- **UNPeriod** is the nodal period in minutes reported in the UN registration document, if any. Although the UN registration orbital information, reported by the state of registry, is valuable for a variety of research purposes, it is not always reliable and I recommend that users prefer the orbital data in the main object catalog which is based on US and hobbyist tracking data.
- **UNPerigee** is the orbital perigee height in km reported in the UN registration document, if any.
- **UNApogee** is the orbital apogee height in km reported in the UN registration document, if any.
- **UNInc** is the orbital inclination in degrees reported in the UN registration document, if any.
- **DispEpoch**

  Disposal Epoch. Only for manueverable payloads in Earth orbit; the epoch of the disposal orbit given in the following fields. The disposal orbit information is used to assess compliance with disposal recommendations. For objects other than maneuverable payloads, the disposal orbit is deemed to be the initial orbit. For satellites still able to maneuver, a recent orbit may be given as a placeholder.

  Inclusion of the disposal orbit data is currently an experiment and tne data should not be relied upon at present (2024 Oct).
- **DispPeri**

  Disposal perigee; perigee of the orbit at the end of life for a manueverable satellite.
- **DispApo**

  Disposal apogee; apogee of the orbit at the end of life for a manueverable satellite.
- **DispInc**

  Disposal inclination; inclination of the orbit at the end of life for a manueverable satellite.
- **Comment** - A descriptive comment, which I may or may not have felt moved to fill in.

Chapter VIII.3

Main Object Catalogs

VIII.3.1 Primary Orbital Object Catalogs

VIII.3.1.1 The Standard (S) Satellite Catalog

Since the late 1950s the US government has maintained a catalog of satellites (often referred to as the SATCAT). Each satellite is given a sequential number (1 was the rocket stage from the first Sputnik). These numbers are sometimes referred to as SSN numbers.

In GCAT, each entry in the S catalog (Standard Satellite Catalog or satcat) corresponds directly to the corresponding entry in the US catalog; entry S00001 corresponds to SSN 1, entry S40000 corresponds to SSN 40000. The S catalog contains additional metadata not present in the US catalog, described later in this chapter. Note that I will use SATCAT in upper case to refer to the US catalog, while the lower case version will always refer to GCAT's S catalog.

By convention I render entries 1-99999 in each catalog with 5 digits, in this case S00001 to S99999. I then jump to 9 digits for objects 000100000 onwards (S000100000 in this case). I am optimistic that we won't reach S999999999 before I retire, so that'll be Somebody Else's Problem.

There are, as always, complications. Not infrequently, the SSN numbers associated with two space objects are swapped, or an SSN number is reassigned to a different object and the previously assigned object is now not in the catalog. However, archival TLE (Two Line Element) sets for the previous object remain associated with the same catalog number, potentially causing confusion. Although I would rather not reassign numbers, in the interests of practical compatibility the S catalog entry corresponds to the object MOST RECENTLY ASSOCIATED with that catalog number (and the GCAT is updated as required to reflect this).

The SSN number is really associated with an object tracked by the US space tracking team (currently the 18th Space Control Squadron and associated organizations). The set of TLEs associated with that catalog number, for the most part, define the SSN. The association of that catalog number with a physical object (satellite, rocket, debris) is an inference. Sometimes I disagree with the association made, and the S catalog reflects that. The harder problem is when you have, say, 3 SSN tracked objects and three known payloads, but you have no idea which is which. This can occur, for example, when three externally similar cubesats deployed from the same vehicle immediately fail, so even the satellite owners don't know which is which. In this case the SATCAT will just have them as 'OBJECT C', etc., and not attempt to make an identification. I prefer to make an arbitrary assignment of the three objects to catalog numbers but flag the assignments as uncertain. This lets me enter all the metadata such as country, owner, name etc. and so statistical counts such as number of payloads associated with a given country will come out right.

Some satellites are made up of several attached sections. When I deem that these separate sections are of sufficient interest to deserve their own catalog entry (for example because their metadata are interestingly different) I create additional entries in the auxcat (see below), and choose one of the sections to be associated with the S entry. As an example, for CORONA satellites both the CORONA payload and the attached Agena rocket stage, as well as

any Agena aft rack attached payloads, get catalog entries. In such cases the S entry is given to the payload; metadata includes the information that the CORONA and the Agena remained attached until reentry.

The SATCAT associates debris objects with a particular launch but does not identify them in detail; again, I make my best guess as to the nature and origin of particular debris objects.

The US catalog is coy about certain military and intelligence satellites belonging to the US and its allies. Usually a cover name (e.g. USA 304) and a launch date are provided, but no orbital data or reentry date. Since I do not have access to secret information, I am free to speculate. Usually it's not very hard and identifications of secret satellites with particular programs and orbits mostly have a high degree of confidence.

VIII.3.1.2 The Auxiliary (A) Satellite Catalog.

The auxcat contains entries for objects not in the standard catalog. The catalog numbers have the prefix 'A', so the first entry is A00001.

Objects end up in the A catalog for a variety of reasons:

- Object should have been in S catalog but was omitted (not tracked, or administrative oversight)
- Object is attached to another object (see discussion in S catalog section) Some special cases include Shuttle payload bay cargo items, external ISS components, and internal ISS cargo entries used for mass accounting.
- Object was in orbit, with perigee well above the atmosphere, but was deorbited after less than a full orbit.
- Object had positive perigee but reentered on first object.
- Object had mildly negative perigee. This includes some rocket stages (e.g. Ariane core stages) and some objects released during reentry of spacecraft (discarded service modules, parts of film recovery capsules). I like to perturb the boundaries of definitions and see what falls in. These objects don't strictly count as satellites by my rules, but they are 'close enough' to be interesting.
- Objects with greater total energy per unit mass than a low orbit satellite. This includes some high apogee (above 10,000 km) suborbital flights and some high velocity reentry tests.

Sometimes objects already in the A catalog get a US SATCAT number - for example, external ISS experiments which are unexpectedly discarded into orbit at the end of their lives. In this case the object is moved to the S catalog, and its A catalog number is retired. In previous internal use of the catalog I've reused such freed A catalog entries, but with the formal release of GCAT it is my intent that any such reassigments will be recorded formally and the empty catalog entries will not be reused.

When it is clear that an object is likely to receive a SATCAT number in the near future, it is placed in the T catalog (see below) instead of the A catalog.

VIII.3.1.3 The Failure To Orbit (F) Satellite Catalog

The ftocat (F, Failure to orbit catalog) contains objects from failed launches which were expected to have had satellite catalog entries if the launch had been successful. The objects are upper stages and payloads from launches with 'F' launch designations (e.g. 1959-F01).

Note that objects from 'U' marginal-orbit launches (1959-U01 etc) are in the auxcat rather than the ftocat. Objects from pad explosions ('E' launches where no actual launch occured) are in the lcat.

I have gone to some trouble to estimate the best-guess suborbital perigee, apogee and inclination for the objects in the F catalog. If you have better data for a particular launch, please let me know.

VIII.3.2 Supporting Catalogs

The two supporting catalogs are relatively less complete and are of variable data quality, as described below. Caveat emptor - maxime quando sine sumptu est!

VIII.3.2.1 The Rocket (R) and Suborbital Object Catalog

The rcat contains objects whose apogee was probably above 80 km but which did not reach orbit (i.e. are not included in the orbital catalogs). The main purpose of the rcat is to record suborbital stages of orbit launch vehicles, allowing me to specify the detailed configuration of that particular flight vehicle - it gives me a place to put the type and serial number of the stages. Other metadata - mass, size, (sub)orbital parameters - are sometimes included but typically with approximate or guessed values. Orbital inclination values of zero should be ignored.

Object associated with suborbital launches are also included. The catalog is not complete in this respect and the caveats on the quality of the metadata for such objects apply even more strongly. But it gives me a place to store parameters of sounding rocket and missile payloads when I know them.

VIII.3.2.2 The Low-altitude (L) Endoatmospheric Object Catalog

The lcat contains objects whose apogee was probably below 80 km. Like the rcat, the main purpose of the lcat is to record the stage configuration of orbital launches, serving as a place to store the details of lower stages (first stage, strap-on boosters, etc) that did not leave the atmosphere. As for the rcat, but even more so, metadata on mass, size and trajectory are approximate or guessed and should usually be treated with skepticism. (For a few cases, such as Apollo-Saturn lower stages, the data are accurate.)

Mostly the lcat is used to store low altitude objects associated with a launch which also had exoatmospheric parts. However, some objects associated with purely endoatmospheric and mesospheric launches are included. Nevertheless, the presence of a low altitude launch in the launch lists does not guarantee its associated objects will exist in the lcat.

As noted above under ftocat, objects from launches which exploded on the pad are also included in the lcat.

VIII.3.3 Temporary Catalogs

Unlike the main catalogs, the catalog numbers in the T and C catalogs are not assigned sequentially. Currently the first object in the C catalog is C00100.

The tmpcat contains objects which are (1) in orbit, and (2) do not have US satellite catalog numbers but are expected to get them in the fairly near future. This usually means objects which are aboard the ISS or a cargo ship and slated for later deployment, such as cubesats to be ejected from the Kibo module; or subsatellites to be ejected from another satellite; or objects such as the Crew Dragon Trunk which is left in orbit at the end of a Crew Dragon mission. Starlink and other megaconstellation satellites may also receive T numbers based on the 70000-series numbers used by Celestrak Supplemental TLEs before identifications are made with the SATCAT numbers.

When the T catalog object does get a US SATCAT number, its GCAT identifier is changed. The object is added to the S catalog, and its T catalog number is removed (and later reassigned). Users should therefore beware of referring to T catalog numbers - they are ephemeral and their reassignment is not formally recorded. They are a compromise, allowing the instantaneous catalog to reflect the state of things as well as possible, while avoiding reassigning any ‘permanent’ catalog entries.

Objects which may never get catalog numbers - such as known objects which nevertheless have not been tracked - are instead put in the auxcat as described above.

VIII.3.3.1 The Complementary Space Object (C) Catalog

The csocat (C catalog) is a rather different construct. The objects here are those detected and observed by someone other than the US space tracking network, and not immediately identified with an existing SATCAT entry. These include objects found by hobbyist observers, astronomers,and non-US satellite tracking groups. 'Analyst objects' from the US space tracking network are also included.

(I will admit that the 'C' originally stood for Canadian Space Society, the initial source of hobbyist TLEs in the 1990s thanks to Ted Molczan).

Since the objects in the C catalog may or may not be also present in the S catalog, I do not include C catalog objects in my statistical summaries (of numbers of satellites launched, etc.).

C catalog entries are initially assigned the value NNA (No Number Assigned) in the Satcat number field (see column descriptions). Then, when and if a C catalog object is later identified with an S catalog entry, the actual SATCAT number is placed in the field to flag that the object is no longer 'unaffiliated'. The user may therefore ignore all C catalog entries whose Satcat number is not 'NNA'.

Types of objects in the C catalog include (with catalog number ranges used as of mid-2020, but not guaranteed to be rigidly adhered to):

- (C00100-C00399) Objects found by Near-Earth asteroid astronomers and cataloged by Bill Gray (project-pluto.org) PThese include distant space junk but also some natural asteroids.
- (C10000-C29999) Objects found by the ISON and Vimpel networks in Russia
- (C70000-C79999, C90000-C99999) Objects found by hobbyist observers (satobs.org) and cataloged by Ted Molczan, Mike McCants and colleagues.
- (C80000-C89999) 'Analyst objects' from Space-Track.org given temporary satellite catalog numbers. The entry in the C catalog has the same catalog number as assigned by Space-Track, but with the C prefix. These numbers generally are between 80000 and 90000 (although some have occurred in the 70000s.)

Since the objects in the C catalog are often of unknown origin, the launch dates and international desigations in the catalog are meaningless and should be ignored. The orbital metadata, however, are based on actual data.

VIII.3.4 Event Catalogs

The event catalogs consist of the main Event Catalog, for Earth orbiting objects, and the deep space catalogs which are only briefly discussed here.

VIII.3.4.1 The Event Catalog

The SATCAT data model is basically that launches put a set of objects in orbit at a given date (launch date), some of which eventually (decay date) reenter. The structure of the main GCAT object catalogs adds the idea that objects associated with a launch don't all appear on the launch date, but may instead separate from one of the other objects at a later (sep date) time. This model covers the vast majority of objects in the catalog, but some have more complex histories. The Event Catalog (ecat) is an attempt to accommodate those more complex histories.

We introduce the idea that each object in GCAT has a history composed of multiple 'phases'. A new phase typically begins with either separation from a parent or attachment to a new parent. Parents may be GCAT objects or GCAT bodies (worlds). Another kind of phase is less physical: the object changes critical metadata - either its name or its owner. For a typical object, there is only one phase, which begins with separation from the parent object and ends with reentry - or is still in progress. But for some objects there are many phases involving renaming, on-orbit resale, docking and undocking, some other form of attachement to another object (e.g. EVA assembly), bringing inside or outside a space station, entering deep space, entering or leaving the gravitational sphere of influence of a

new central body, landing or taking off from such a body, or returning to the Earth-Moon system. Each such phase can be characterized by:

- - A parent (GCAT object or body)
- - Phase start time
- - Phase end time
- - Event that ends the phase
- - New parent or destination at phase end

All of this information is conveniently represented in a record identical to the normal satellite catalog entries. Thus, objects with multiple phases are represented by multiple entries with the same catalog identifier; each entry represents a phase. So that this complexity can be ignored when not useful, the main object catalogs contain only a single entry for each object, the first phase. Second and subsquent phases are stored in the ecat. The ecat records are in chronological order, although this is mainly for my convenience. Thus for example GCAT object A07959 has five phases, leading to one entry in auxcat and four entries in ecat.

The details of phases are captured in the phase-ending event type, which is stored in the 'status' field of each phase record. The various options are defined in detail in the status column description.

VIII.3.4.2 The Deep Space Catalog

Objects which pass the EL1:4 deep space boundary at about 150,000 km from Earth are given a 'D' catalog designation in addition to their entries in the S or A catalogs. The S or A catalog uses the decay date, status and destination fields to record the object's transition to deep space and its new catalog number. The corresponding DeepCat entry records the object's arrival in deep space and its departure to its next phase - reentry, entry to the lunar sphere of influence, or departure from the Earth-Moon system. The Heliocentric Register and the Lunar and Planetary Register then record subsequent phases of the object as it visits different bodies in the solar system, using its D catalog designation.

I recognize that the reassignment of a new catalog number to an object once it leaves Earth orbit may be inconvenient. A crossindex between D designations and S/A designations is provided at (See https://planet4589.org/space/gcat/data/cat/deepindex.html)

The research behind the separate release of the Deep Space Catalog is discussed more fully at https://planet4589.org/space/deepcat (https://planet4589.org/space/deepcat) . While I consider it a part of the General Catalog of Artificial Space Objects, it is a relatively self contained subset and is documented and published on an independent release schedule. The deepcat files within GCAT are kept more up to date.

VIII.3.5 Payload Catalogs

A lot of the metadata I track for satellite payloads (end of operation date, payload category, UN registration information, etc.) is not relevant for debris objects. To save space in the main catalogs, I pull out this extra information into separate 'payload catalogs'. Each object from the main catalogs has zero or one record in the corresponding payload catalog.

For example, GCAT object A00489 appears in the main catalog 'auxcat'. It also has a record in the corresponding payload catalog 'pauxcat' with the additional payload metadata. The payload catalogs have the same name as the corresponding main catalog, except with a leading 'p', so it's pretty easy.

The payload catalogs are psatcat, pauxcat, pftocat and ptmpcat. In addition there is a plcat corresponding to the lcat, containing limited payload info for a few payloads for launches which exploded on the pad and so didn't make it into ftocat, and similarly prcat and pdeepcat for some special cases in rcat and deepcat.

Of greatest interest is probably the end-of-life date information in psatcat, since a comprehensive satellite operational lifetime dataset has never before been published. The psatcat also is useful for statstical analyses since it characterizes satellites as nonprofit, commercial, civil or defense, and as communications, imaging, navigation, science, etc.

VIII.3.6 Unicode list

The usatcat file contains a list of satellite names in unicode with the correspoding GCAT catalog numbers. Only objects whose name is not in the Latin alphabet are included. This data should really just be an additional column in the payload or object catalogs but some of my older data entry software isn't completely smooth in the way it handles unicode, so it was easier for me to keep the unicode data separately in a dedicated file.

The file is a simple text file with two columns, the GCAT catalog identifier and the unicode satellite name. It is in alphabetical order of GCAT identifier, so auxcat entries precede satcat ones.

VIII.3.7 Derived Catalogs

VIII.3.7.1 Current Catalog

The currentcat file is provided as a useful subset of GCAT. It is largely derived from the information in satcat, auxcat and ecat. There is one record for each entry in satcat and auxcat; it is the **most recent** phase for each object. In the main GCAT, if you want to know the current state of an object in satcat, you also have to check through all its records in ecat to find the final one. I decided this is such a common use case that I'd do the work for you and make a 'most recent phase' catalog.

The catalog contains a subset of the fields in satcat, and a couple of new fields: the **Active flag** which is 'A' if the object is a currently active payload, and the first character of SatType (i.e. P for payload, R for rocket, C for component or D for debris) otherwise. and the **extended status** field which decodes the Status field information into a more readble text field.

Space probes have two catalog IDs, the regular JCAT for their near-earth launch phase and a Deep Space Catalog ID beginning with 'D'. The currentcat has a DeepCat column which gives the 'D' identifier for the object if one exists, corresponding to the object's JCAT field in the deepcat file.

There is one set of data not in the other catalogs: for objects currently in Earth orbit, the most recent available orbital data are provided in currentcat rather than the 'canonical' early orbit data provided in, e.g., satcat.

VIII.3.7.2 Launchlog File

The LaunchLog file is a list of all orbital launch attempts in chronological order. The data are extracted from the launch lists and the payload catalogs. It joins the launch and payload information to have one line per orbital payload with the payload name and the launch information. It replaces and supersedes the earlier launchlog.txt file on my site.

VIII.3.8 Object Catalog Column Descriptions

- The first few fields (JCAT, Satcat, Piece, Type, Name, PLName, LaunchDate) identify the object and name it.

– **JCAT**

The General Catalog (GCAT) uses an alphanumeric identifier (JCAT, originally Jonathan's Catalog ID) to uniquely tag space objects. The identifier consists of a single prefix letter followed by a sequence number with either 5 or 9 digits (examples: A00022; S101234009). The 9 digit case is not yet in use, but is supported in anticipation of the introduction of 9-digit SATCAT numbers by the US DoD.

The leading letter tells you which object catalog the object belongs to, as follows:

JCAT letter	Catalog
A	auxcat (Auxiliary catalog)
C	csocat (Complementary catalog)
D	deepcat (Deep space catalog)
F	ftocat (Failed to orbit catalog)
L	lcat (low altitude catalog)
R	rcat (suborbital catalog)
S	stdcat (Standard catalog)
T	tmpcat (Temporary catalog)

Note that there are no prefix letters associated with the ecat (event catalog), or the heliocentric and lunar-planetary registers, since they contain only objects already defined in the other catalogs.

Sequence numbers in the A, D, F, L, R, and S catalogs are assigned sequentially starting with 00001. However, occasional numbers may be missing due to deletions of spurious or reassigned entries.

Sequence numbers in the C and T catalogs are not assigned sequentially.

Sequence numbers in the S catalog are in one-to-one correspondence with the US SATCAT catalog numbers. Thus, S46112 corresponds to SATCAT satellite 46112 (2020-056A).

In exceptional cases, future releases of GCAT may reassign existing catalog numbers. Any such reassignments will be recorded explicitly in an accompanying table. However, users who have found earlier (pre-GCAT) JCAT catalog numbers that crept into my public files have no such guarantee - in partcular, auxcat numbers previously seen in public files may now refer to different objects.

– **Satcat**

For objects in the US Satcat, this field contains an integer value which is the US SATCAT number. In the S catalog, this will be the same as the JCAT sequence number.

However, one US SATCAT number can correspond to multiple GCAT objects which are attached to one another. For example, SATCAT number 00032 corresponds to GCAT objects S00032 (Discoverer 11 payload), A00046 (Agena 1055 rocket stage), and A00047 (TOD experiment attached to Agena stage). All these objects have 00032 in the Satcat field.

Objects which do NOT have US SATCAT entries instead have a string in this field explaining why they don't.

Value	Meaning
NNA	No (satcat) Number Assigned. Object should be in SATCAT but is not, or we don't know which object in SATCAT maps to this object.
NNA A	No SATCAT number because remained attached to parent object
NNA C	No SATCAT number, component of complex object such as space station
NNA E	No SATCAT number because is an EVA spacesuit. These do not get recorded in SATCAT.
NNA I	No SATCAT number because object remained inside parent object
NNA P	No SATCAT number because completed less than one full orbit
NNA R	No SATCAT number because separated into marginally suborbital trajectory during parent reentry.
NNA S	No SATCAT number because launched into marginally suborbital trajectory
NNA T	Not in SATCAT because object was a separate object in orbit transiently, for only a few seconds (e.g. CORONA film capsule)
NNA X	Not in SATCAT because launch is a marginal orbit case
NSO	No SATCAT number because suborbital

– **Launch_Tag:** an identifier for the launch. For orbital launches, this is the international (COSPAR) designation of the launch. For other launches, the designation is assigned by me using a pseudo-COSPAR format of the form yyyy-Xnnn, where yyyy is the year of launch, X is a letter, and nnn is an integer. The designations are explained in the introduction. See the detailed description in the (See Launch Designations) section of the introduction. This tag matches the launch tag in the launch lists and may be used to join the two databases (launches and objects).

– **Piece** The piece designation for the object. For objects in the US SATCAT this is the COSPAR (International) designation (e.g. 2020-032A); the launch component (e.g. 2020-032) usually but not always matches the Launch Tag.

  See the section on launch and piece designations in 'definitions and conventions' for details.

– **Type**

  This field contains a SatType string as defined in the (See SatType section.)

  This field tells you something about what kind of object this is. At the coarsest level, we characterize the object as payload (P), rocket stage (R), component (C) or debris (D). A component is a functional part of the spacecraft or rocket that is deliberately or accidentally ejected - a fairing, for example. A debris object in this sense is a fragment from a satellite breakup, usually accidental - although fragments from deliberate explosions or collisions are included in this category.

  At a finer level the type string provides a lot more information for special cases. See the (See SatType definition) for more details.

– **Name** My recommended name for the object. The name is based on that used by the owner/operator of the object. In cases where the original name is in a non-Latin character set, see the associated (See GCAT unicode name list) for a representation of the name in Unicode.

  'X part' indicates that the object is an unidentified component that separated from X. 'deb X' indicates the object is a debris object from the breakup of X.

– **PLName**

  The PLName (Payload Name) is an alternative name for the object. When available, it is the name used prior to launch by the manufacturer.

Some debris objects have a string with RCS followed by a number in the PLName field. This refers to the radar cross section in square metres. The RCS values obtained from early 2000s era SATCAT releases are unreliable, but may indicate which objects are particularly small or large.

Some objects have a PLName beginning with the string '[UNID'. These objects are marked with an asterisk in the US SATCAT. They are unidentified debris objects; their piece designations (international designations) are believed to associate them with the wrong launch.For example, there are a lot of small component debris objects associated with Soviet Strela-2M communications satellites in rather similar orbits. When such an object is discovered years after its launch, the effects of drag and perturbations are such that while it is obvious from the orbit that the object comes from a Strela-2M, there's no way to tell exactly which Strela-2M it is from.

– **LDate** (Launch Date).

The launch date is given in UTC, with 1 day precision. More accurate launch times are given in the launch lists. Usually you can map the object to a launch using the international designation, but see the discussion in the Parent field below for exceptions.

- The next set of fields (Parent, SDate, Primary, DDate, Status, Dest) describe the current 'phase' of the object.

  – **Parent** The Parent field can be either

    * the 'parent object' which the object is attached to at the start of the phase, or
    * the central body whose gravitational sphere the object is leaving at the start of the phase.

  The parent object is an (See Extended JCAT Identifier) - it's usually just a JCAT ID but sometimes there's a port location appended to make it more specific.

  Also, in some cases an asterisk is appended to the identifier. This is a flag that the launch designation in the Piece field might not be what you'd expect from the launch designation of the parent. In the normal situation, for example, S45920 has Piece designation 2020-048A, and its parent S45921 has 2020-048B - both are 2020-048 launch pieces. But S45916 has Piece designation 1998-067RP, and its parent is A09547* with piece designation 2020-011, an apparent contradiction. In fact 2020-011 is the correct launch for both, with launch date 2020 Feb 15, but USSF assigns 1998-067 piece designations and a 1998 launch date for all objects released form the ISS. I added the asterisks to facilitate automatic checking: it lets you know to be careful about the launch date and launch information for this object. The asterisk means 'don't be surprised if there's a mismatch'; it doesn't *guarantee* that there is a mismatch.

  The central body names are given in the Worlds file.

  – **SDate**

  Separation Date (or Phase Start Date).

  This UTC date (in (See Vague Date) format) is the start time for the current phase. In the simplest cases, it is the time when the object separated from its parent.

  – **Primary**

  (or Central Body).

  The value of this field is a string representing the central body for the current phase. These strings are defined in the Worlds file. (Usually, the central body is Earth.)

  – **DDate**

  Descent Date (or Phase End Date).

  This UTC date (in (See Vague Date) format) is the end time for the current phase. In the simplest cases, it is the time when the object reentered the atmosphere. If blank, the phase is still in progress.

  – **Status** This field gives the event that ends the current phase.

  See the discussion on (See phases) in the definitions section.

- **Dest** (Destination) This field gives the destination of the current phase. This may be the reentry or landing location, the JCAT identifier for the new parent object that the object is now attached to, or the world name of the body whose gravitational sphere the object is now entering.

  See the discussion on (See phases) in the definitions section.

- The next set of fields (Owner, State, Manufacturer, Bus, Motor) describe ownership and construction.

  - **Owner** The (See OrgCode) for the owner/operator of this object.
  - **State** The (See OrgCode) for the country/state associated with the owner/operator.
  - **Manufacturer** The (See OrgCode) for the entity that built the object.
  - **Bus** This string gives the spacecraft bus (chassis) type. It isn't standardized, and many objects are one-off. It's most useful for things like commercial communications satellite where satellites of the same type are used by many different owners.
  - **Motor** The name of the main thruster or rocket engine in the object's propulsion system. Particular attention has been paid to determining the model of apogee motor or apogee thruster used on satellites, as this has not previously been well documented. The entries in this field have not been standardized but some information may be found in (See the Engines file.)

- The next set of fields (Mass, DryMass, TotMass, Length, Diameter, Span, Shape) describe the object's mass and dimensions.

  - **Mass, MassFlag** Mass of this GCAT object in kg, at launch (meaning, at initial orbital insertion), not including mass of attached objects.

    If the MassFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **DryMass, DryFlag** Dry mass of this GCAT object (which is a reasonable proxy for the mass of the object after its active lifetime). Value is in kg. Does not include the mass of attached objects.

    If the DryFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **TotMass, TotFlag** Total mass of this object at launch (orbital insertion), in kg, if nonzero. For a set of GCAT objects attached to each other the total mass will be given for one of them (usually the S catalog entry), and the others will have TotMass = 0. If you add up the Mass values for each of the objects, the result should be equal to the TotMass.

    If the TotFlag is '?' then the value is an estimate, hopefully good to about 20 percent.
  - **Length, LFlag** Longest dimension of the main body of the object in metres.

    If LFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Diameter, DFlag**

    The Diameter is the second longest dimension of the main body of the object in metres. Many objects are cylinders or square-sectioned cuboids, so I haven't bothered to give a separated depth and width. The length times the diameter is a reasonable approximation to the cross-section of the object not counting appendages.

    If DFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Span, SpanFlag**

    The Span is the largest dimension in metres of the entire object across all appendages (booms, solar arrays, antennae). To avoid hitting the object you should stay outside a sphere of diameter equal to the Span.

    If SpanFlag is '?' the value is a guess, hopefully good to about 20 percent.
  - **Shape** A string giving the approximate shape of the object. This is included really because it was in the old RAE table of Earth satellites. It isn't a substitute for a 3D CAD model though!

- The following set of fields (ODate, Perigee, Apogee, Inc, OpOrbit, OQUAL) describe a ‘canonical orbit’. The orbit of an object changes with time due to atmospheric drag and other perturbations, and in some cases it changes drastically due to active manuevering. I pick one orbit (the ‘canonical orbit’) that is representative of the spacecraft’s early operations, after initial positioning, to include in the catalog. But detailed analysis should consult detailed orbital data versus time for each object, from the Space-Track TLEs or other sources.

  – **ODate** Orbit Epoch Date. Epoch of canonical orbital data, Vague Date format.

  – **Perigee, PF** Conventional perigee height in km of canonical orbit. Equal to perigee radius minus equatorial radius of central body.

    If PF is equal to ’?’ the value is a guess.

  – **Apogee, AF**

    Conventional apogee height in km of canonical orbit. Equal to apogee radius minus equatorial radius of central body.

    If AF is equal to ’?’ the value is a guess.

  – **Inc, IF**

    Inclination of canonical orbit in degrees with respect to coordinate system equator. Heliocentric orbits are given with respect to the J2000 ecliptic. Earth orbits are given with respect to the equator of date (strictly, TEME equator). Orbits around other central bodies are given with respect to the IAU equator of that body.

    If IF is equal to ’?’ the value is a guess.

  – **OpOrbit**

    Orbit type of the canonical orbit.

  – **OQUAL**

    Orbit Quality Note.

    Source of the canonical orbit. Usually blank; it’s a place for me to make a note to remind me where I got the orbit data from in special cases. ’J’ means I estimated the orbit myself.

- The final field really belongs with the first set, with additional names for the object.

  – **AltNames**

    A comma-delimited list of further alternative names for the object.

VIII.3.9 Payload Catalog Column Descriptions

- **JCAT** The JCAT identifier (letter followed by digits) identifies the object and ties this catalog to the object catalogs.

- **Piece** The Piece field contains the piece designation, usually the COSPAR ‘international Designation’. It is the same as that given in the object catalog and is repeated here for human-readablity and convenience.

- **Name** The name in the payload catalog is the name given in the UN satellite registry, where available. I usually fill in another name (usually Name or PLName from the object catalog) where not, for readability.

  If the satellite is UN registered (a registration document is noted in the appropriate field) but no name was given in that registration, I enclose the name used in square parentheses to indicate that it’s not official. For example, for object S01328, the UNReg field contains ”A/AC.105/INF.107”, indicating that the satellite is registered. The name is given as ”[Explorer 27]”, the square brackets indicating that no name was actually given in the registration document.

  As with other UN registration metadata reproduced here, the UN name data are provided so you can compare UN registration information with the primary information in the catalog. In this instance, the name in the object catalog (or even better, in the unicode name list) is generally to be preferred over the name given here.

- **LDate** (Launch Date). Same as in object catalog, provided for convenience and cross checking.

- **TLast**

  Last Known Active Time.

  The date on which the satellite was most recently known (by me) to be active. Often, it's hard to find out whether a satellite is still operating, especially if it does not actively control its orbit. It is therefore helpful to know if it's been known to be active fairly recently, or whether there has been no news of it for decades. Caveat: I only update this infrequently and patchily. The fact that *I* haven't heard news of the satellite operating since 2006 doesn't mean that obvious evidence of its continued activity doesn't exist.

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that no information is available.

- **TOp** End Operation Date.

  The date on which the satellite is believed to have completed regular operations. This is a loosely defined concept. The idea is that after this date the satellite may have been used for on-orbit tests and training, or may still have had an active radio beacon, but was not in use for its primary purpose. (That's not the same as 'end of primary mission', which can be much earlier).

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that the payload is believed to be still operating.

- **TDate** End of Transmission Date.

  I also refer to this as the "Dead, Dead, Dead" date - it is the date after which the satellite became completely silent and unresponsive, or when no further contact was made by its owners. I prefer to use this as an end-of-life date. (There is some ambiguity here. Some old satellites are abandoned by their owners but still emit a radio beacon.)

  Vague Date Format is used to record the value.

  An asterisk in this field indicates that the payload is believed to be still transmitting.

- **TF**

  End of life special flags. Flags here have the following meaning:

Value	Meaning
D	Recovery capsule which spent a matter of seconds as a separate orbiting object before the deorbit burn.
E	Deep space mission, may be operating outside Earth orbit.
U	This satellite is thought to be still working but the UCS active satellite list suggests it is not.
X	Satellite end of life date is a guess and satellite could still be partly operating.
Z	Zombie satellite: no longer controlled, but continues emitting a beacon signal.

  These flags were added to the data to make automatic comparisons with the UCS active satellite list easier. (Easier for me, mostly.)

- **Program**

  This field identifies groups of related satellites. I use it to drive the organization of mission logs which I am preparing for a future release.

- **Plane**

  This (new) string-valued field can be used to label orbital planes or shells in a constellation. At the moment I am using numeric shell numbers to group OneWeb satellites.

- **Att**

  Attitude control flag

The field describes the type of attitude control. However, values of this field have not yet been systematically filled in.

Value	Meaning
-	Unknown
G	Gravity gradient stabilized
P	Pointed, 3-axis stabilized
PS	Sun pointed
PN or N	Nadir (Earth) pointed
S	Spin stabilized
U	Unstabilized

- **Mvr**

  Maneuverability Flag.

  This field indicates whether the satellite has or had a propulsion system capable of changing its orbit. Valid nonempty values are 'M', indicating that the satellite is manueverable, and 'D', indicating that the satellite's propulsion system is capable of a single burn to deorbit the satellite.

- **Class** The class is a one- or, rarely, two-letter character string used to classify satellites as military, commercial, etc. This is usually based on the status of the owner/operator organization, but with some exceptions (for example the Vostok spaceships are considered civil even though operated partly by the Soviet military). The four supported single-letter values are:

Value	Meaning
A	Amateur/academic/non-profit
B	Business (commercial)
C	Civil (government but not military)
D	Defense (govt. military, intelligence)

  Two-letter combinations of these have the obvious meaning: e.g. BD means a satellite which has both commercial and military use. In general, I find the concept of 'dual-use' to be mostly unhelpful. Almost everything is potentially usable for military purposes, but almost everything is nevertheless fairly clearly assignable to one of the above four principal uses. I only use the dual-use two-letter characterization for 16 (as of 2020) satellites in the catalog where the management and operation is clearly shared between two organizations connected with different class values.

- **Category**

  The category is a different classification, orthogonal to the class. It describes the general purpose of the satellite. A satellite may have one or two categories.

  In the case where two values are present, the values in this field are concatenated with a slash between them - for example 'IMG/TECH'.

  Uncertain categories have an appended question-mark.

  An asterisk appended to the category indicates that the orbital data for the satellite are (or formerly were) kept secret by the US government.

  The defined categories are:

Value	meaning
AST	Astronomy
BIO	Biology and life sciences
CAL	Calibration (for atmospheric density, space surveillance radars, etc). Usually passive.
COM	Communications
EDU	Educational purposes.
EOSCI	Earth observing science, except imaging
EW	Missile early warning, including ballistic missile defence tracking
GEOD	Geodesy
IMG	Imaging (optical), except meteorology
IMG-R	Imaging (radar)
INF	Infrastructure (support structures, deployers etc)
MET	Meteorology (imaging)
MET-RO	Meteorology (radio occultation)
MGRAV	Microgravity experiments
MISC	Miscellaneous (e.g. burial services)
NAV	Navigation, positioning and timing
PLAN	Deep space related mission
RB	Rocket body (rocket upper stage)
RV	Reentry vehicle
SCI	Scientific studies, except astronomy and Earth observing
SIG	Signals intelligence
SS	Spaceship, i..e human spaceflight related (including cargo ships)
TARG	Target for missile defense or antisatellite tests
TECH	Technology and training
WEAPON	Weapon, including antisatellite experiment and FOBS

- **Result**

  The Result flag is a single letter used to identify satellites which failed early in their mission. Values of this flag are:

  - S - success
  - F - failed
  - U - Unknown
  - N - No test (e.g. rocket failed before satellite had a change to operate).

- **Control**

  Location of the spacecraft operations control center. I have not filled this field in systematically yet, it's really a 'future project' (maybe never). However those values which are filled in should be reliable.

- **Discipline**

  For scientific satellites, this field may note one or more specific scientific areas in which the satellite is carrying out research. Values used to date are:

Value	Meaning
A	
AIS	Automatic ID system (ship tracking)
ALT	Radar altimeter
ATM	Atmospheric science
AUR	Auroral research
BIO	Biology and life sciences
CR	Cosmic rays
ENV	Space enviromental exposure
ESCI	Earth sciences
F	Electromagnetic fields
GEOD	Geodesy
GRA	Gamma ray astronomy
IMG	Imaging
ION	Ionospheric research
IRA	Infrared astronomy
M	Humans in microgravity and related research
MG	Microgravity experiments
MM	Micrometeorite studies
OA	Optical astronomy
P	Particles
PHY	Basic physics
PL	Planetary science
RFA	Radio-frequency astronomy
SMA	Submillimeter astronomy
SOL	Solar physics
SX	Solar X-ray astronomy
TECH	Technology experiments
UVA	Ultraviolet astronomy
XNAV	X-ray navigation
XRA	X-ray astronomy

An asterisk in the discipline field was used to indicate a major mission, as an attempt to distinguish major and minor missions. However I stopped adding the asterisks at least a decade ago, and don't plan to update them soon, so I recommend just ignoring the asterisks.

- **UNState**

  If the satellite is registered with the UN, this field contains the OrgCode string corresponding to the country which registered it. If this country is not the owner country I have assigned the object to in the object catalog, an asterisk is appended to the OrgCode to alert you.

  If the satellite has not been registered with the UN, the field contains, in square parentheses, the OrgCode string corresponding to the country which I think *ought* to have registered it. (If this isn't the same as the owner country in the object catalog, an asterisk is appended to the closing square parenthesis - e.g. '[US]*').

  If the satellite has not been registered, but it's not a 'real payload' (minor subsatellite, etc.) and I don't think it requires registration, the field is left blank.

- **UNReg**

  The UNReg field gives the ID of the UN registration document in which the satellite was registered, if it was. These documents are usually in the ST/SG/SER.E series or the A/AC.105/INF series.

  An appended asterisk indicates that the online UN site reports that the satellite was registered in a particular document, but the document isn't yet available on that site, so I can't see what it actually says! Unfortunately some US registrations have been 'in process' for several years now (as of mid 2020).

  A blank entry indicates that the satellite has not been registered with the UN.

- **UNPeriod** is the nodal period in minutes reported in the UN registration document, if any. Although the UN registration orbital information, reported by the state of registry, is valuable for a variety of research purposes, it is not always reliable and I recommend that users prefer the orbital data in the main object catalog which is based on US and hobbyist tracking data.
- **UNPerigee** is the orbital perigee height in km reported in the UN registration document, if any.
- **UNApogee** is the orbital apogee height in km reported in the UN registration document, if any.
- **UNInc** is the orbital inclination in degrees reported in the UN registration document, if any.
- **DispEpoch**

  Disposal Epoch. Only for manueverable payloads in Earth orbit; the epoch of the disposal orbit given in the following fields. The disposal orbit information is used to assess compliance with disposal recommendations. For objects other than maneuverable payloads, the disposal orbit is deemed to be the initial orbit. For satellites still able to maneuver, a recent orbit may be given as a placeholder.

  Inclusion of the disposal orbit data is currently an experiment and tne data should not be relied upon at present (2024 Oct).
- **DispPeri**

  Disposal perigee; perigee of the orbit at the end of life for a manueverable satellite.
- **DispApo**

  Disposal apogee; apogee of the orbit at the end of life for a manueverable satellite.
- **DispInc**

  Disposal inclination; inclination of the orbit at the end of life for a manueverable satellite.
- **Comment** - A descriptive comment, which I may or may not have felt moved to fill in.

Family			
Family	Family	Family	Family
10KS2500	10SM	11A52B	11A52V
20SM	25SM	40SM	48N6
51T6B	5inSM	8K75B	A-350
AAD	ADD-SLV	AJ60	AMROC
ARRW	ASLV	ASLV.St2	ASLV.St3
ASLV.St4	ATACMS	AUS-51	AVUM
Abid	Abid.St3	Able	Ablestar
AeroHTV	AeroHTV2	Aerobee	AerobeeB
Agate	Agena	Agni3	AgniII.St2
Air	Ajax	AlKahir	Alcor
Alfa	Alpha	Altair	Amateur
Angara	Angara.AM	Antares	Apache
Apollo.LES	Arcas	ArcasB	Arcon
Ariane	Ariane.St2	Ariane.St3	Ariane5
Aries	Arrow	Arrow2	Arrow3
Asp	Astra	Astra2	Astrid
Astris	AstrobeeD	AstrobeeF	Atea
Atlas	Atlas.Booster	Atlas5	AtlasVSRM
Aurore	Avanti	B-611	BB3
BB5	BB6	BB7	BE3
BLDT	BOZ	BR	BabySergeant
Belenos	Belier	Belisama	Berenice
BlackArrow	BlackArrow.St2	BlackKnight	BlackSparrow
Blok-A	Blok-D	Blok-E	Blok-I
Blok-L	BlokG	BlueStreak	Bomarc
Briz	Bukguekseong	BullGoose	Bullpup
Bursztyn	BursztynBooster	Burya	CB-250
CESSQ	CHGB	CSXT	CZ.LB
CZ.St2	CZ1.St2	CZ11-3	CZ11-4
CZ12	CZ3.St3	CZ5	Castor4
Cedre	Cedre.St2	Cedre.St3	Centaur
CentaurV	Cetus	Chick	Cirrus
Cluster	Coralie	Corporal	Cuckoo
Cygnus	D-21B	D3SS	D4SS
DACRoc	DC-X	DF-11	DF-15
DF-16	DF-21	DF-31	DF3
DF5	DIM	DS	Daniel
Deacon	Delta2	Delta4	Demon
Dezful	Dolphin	Dragon	Dummy
Duqm	E8	EPBS	EPS
Edge	Electron	Emeraude	Emma
Energiya	Eris	Eris.St2	Eris.St3
EvoSpace	Excalibur	FFAR	FFK
FTB	FTI	FW4	Falcon
Falcon1	Falcon9	Falcon9.St2	Fatah
Fregat	GCR	GEM	GEM60
GEM63	GF-02	GLCM	GS3
GS-3A	GSLV	GSLV3	GSLV3.St2
GSOM	GYUB4	GammaCen	GammaCenS
Generic	Genie	Gosling	Grad
Gradicom	Gun05	Gun07	Gun16
Gushenxing-3	H2	H2.SRB	H2.SSB
H2.St2	H2B	HALO	HANBIT
HAPS	HIBEX	HJ	HOTROC
HP1	HP1-4	HTR	HVAR
HYSR	Hades	Hercules	Hermes
HermesA3	Hopi	HoundDog	Hwasong-12
Hwasong-15	Hwasong-18	Hwasong-18.S2	Hyunmoo
IAI.Arrow.St2	IIAE.Orion	INTA-100	IRCPS
IRIS.Fiat	ISRO-CES	ISRO-L40	ISRO-TV
Icarus	Icarus2	Ikar	Interstage
IraqGun350	Iris	Iroquois	Ivanov
JCR	JL1	JL1-3	JL1-4
JTSPACE	Javelin	Jericho	Jupiter
K-15	K-4	K10S	K150
K250	K420	KM-D	KM-H
KM-L	KM-V	KM-V2	KN-24
KN-25	KSLV.St2	KSLV2	KSLV2-2
KSR	KSR-3	KT1-3	KT1-4
KZ2-3	Kairos	Kappa	Kappa4
Kavoshgar	Kestrel1	Kestrel1.St2	Kingfisher
Kiva	Kontakt	Kosmos-2.St2	Kosmos-3.St2
Kuryer	Kuryer.St3	L14	L480S
L500	LAPS	LAPSTAR	LE-3

Family			
Family	Family	Family	Family
LE-5	LEO-46	LEO-7	LJ1
LJ2	LMAS	LOSt2	LPR-006
LRAShM	LRAShM.St2	LS-C	Lacrosse
Lambda	Lambda.St2	Lance	LanceMotor
Lark	LauncherOne	Lex	Lobster
Loki	LongTom	Luna	Lupus
Luzou	M-100	M-20	M-24
M-30	M-34	M-35	M-40
M51	MLRS	MMR-06	MR-12
MR-UR-100	MR-UR-100.St2	MSBS	MSBS.St2
MSBS.St3	MT-135	MV	MX
MX-774	MX.St2	MX.St3	MX.St4
Malemute	Matador	Mera	Meteo
Meteor	Meteor2	Mimosa	Minuteman
Minuteman.St3	Miura	Mk72	Momo
Monica	Mu	Musca	N-1
NAL	NOTS.3inSM	NOTS.8in	NOTS400
NOTS500	NOTS505	NOTS551	NSPO
NSPOB	Navaho	Neptune	Neutron
Neutron2	NewGlenn	NewShepard	Nike
Nike-46	Nodong	Nucleus	OAM
OS-M1-3	OS-M1-4	OTRAG	OV
Oka	Orbus1	Orbus21	Orbus6
Oriole	Orion	Orion.LAS	P-10
P-16	P068	PAL	PAM-D2
PAP	PBS	PDV-II	PRS-1
PSLV	PSLV.St4	Pedro	Pegasus
Pegasus.St2	Pegasus.St3	Peregrine	Perekhodnik
Pershing	Pershing.St2	Petrel	Plastic
Polaris	Polaris.St2	PolarisA3.St2	Poseidon
Poseidon.St2	Prithvi	PrivateA	PrivateBooster
Proson	Proson2	Proton	Proton.St3
PrSM	Qaem	Qaem-S2	Qaem-S3
Qased-S3	R-11	R-12	R-13
R-14	R-16	R-16.St2	R-21
R-27	R-29	R-29.St2	R-29.St3
R-31	R-31.St2	R-36	R-36.St2
R-39	R-39.St2	R-39.St3	R-5
R-7	R-9	RH-125	RH-200
RH-300	RH-560	RH-75	RS1
RT-1.St3	RT-15	RT-15.St2	RT-15.St3
RT-2	RT-2.St3	RT-20P	RT-20P.St2
RT-21.St2	RT-23.St2	RT-23.St3	RTV
RX-250	RX-320	RX-420	Raven
Recruit	RedKite	Redstone	Regulus
Rhumi	Rigel	Rita	Rocketsonde
Rocketsonde2	Rubis	S-160	S-210
S-300	S-310	S-40	S-44
S-520	S5M	SB-310	SB-735
SD	SEPR167	SICBM	SICBM2
SICBM3	SICBM4	SM-3-II	SM3.TSRM
SORS	SOZ	SR0.1	SR19
SR73	SR75	SRAM	SRB
SRMU	SS-520-4	SS1	SS2
SSLV	SSLV-SS3	SSLV-VTM	STA
STIG	STIG-B	STS	STS.OV
Safir	Salman	Saman-1	Samoud
Sandhawk	Sarmat	Saturn	SaturnII
SaturnIV	SaturnIVB	SaturnV	Scout
ScoutD	Sejjil	Seliger	Sergeant
Shavit	Sidewinder	Simorgh.St2	Sirocco
Skua	Skybolt	Skybolt.St2	Snark
Sonda	Sonda3	SpaceLoft	Sparrow
Spartan	Spectrum	Sprint	Squirt
Standard	Star20	Star26	Star27
Star37	Star48	Starship	Start
Stonechat	Stratos2	Stromboli	SuperLoki
T-40	T-55	T-7	T-7B
T48	TD3	THAAD	TKSVA
TL2	TL2-3	TL3	TR-1
TR-1.St2	TT-210	TTB	TX-238
TX-239	Talon	Talos	Temp
Temp-2S	Terran1	Terrier	Thor
Tianying	Titan	Titan.SRM	Titan.St2

Family			
Family	Family	Family	Family
Tochka	Tomahawk	Topol	Topol.St2
Topol.St3	Transtage	Traveler	Trident
Trident.St2	Trident.St3	Trident2	UM129A
UNK	UR-100	UR-100.St2	UR-100N
UR-100N.St2	UR-100NU.St3	UR-200	URM-2
Unha	Unha.St2	Unha.St3	Unknown
V-1000	V-1000.Booster	V-2	V-750
V-825	Vega	VegaC	Vela
Venus	Veronique	Vesta	Viking
Vikram-S	Viper	Viper3	Viper5
Vulcan	WAC	Waxwing	X-10
X-15	X-241	X-271	X-51
X-7	XM-17	Xaero	YGCS
YZ-1	ZK-1	ZK-1A-4	ZN
ZQ-1	ZQ-2	Zefiro	Zelzal
Zenit	Zenit.St2	Zenith	Zeus-A
Zoljanah	Zulfiqar	SkylarkL	SkylarkMicro
SkylarkMSt2	-	SkylarkL	SkylarkMicro

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
?	Unknown	-	-		1	1	0.0	0.00	0.0	0	0	0	R	0	
Unknown	Unknown	-	-		1	1	0.0	0.00	0.0	0	0	0	R	0	
N-1 11A52	N-1	OKB1	-		1	3	105.3	14.00	2788.0	70000	0	45300	O	200	
Saturn V	SaturnV	MSFC	-		1	4	110.6	10.06	2913.0	118000	0	34030	O	400000	
Saturn V	SaturnV	MSFC	2		1	3	104.8	10.06	2822.0	75000	0	34030	O	500	
Starship V1.0 Ship	Starship	SPX	-		1	1	50.0	9.00	1470.0	0	0	12000	R	20	
Starship V1.0	Starship	SPX	-		1	2	121.3	9.00	5020.0	100000	0	72500	O	200	
Starship V2	Starship	SPX	R2		1	2	121.4	9.00	5200.0 ?	100000	0	80800	O	200	
Starship V2	Starship	SPX	-		1	2	124.4	9.00	5200.0 ?	100000	0	80800	O	200	
Starship V3	Starship	SPX	-		1	2	142.0	9.00	7000.0 ?	200000	0	103000	O	200	
Space Shuttle	SRB	RWI	-		1	3	38.1	8.40	2040.0	24400	0	28200	O	600	
SLS Block 1	SRB	BOMIS	-		1	3	98.1	8.40	2608.0	0	0	39000	O	400000	
Energiya	Energiya	NPOE	-		0	1	58.7	7.75	2524.0	88000	0	35139	O	250	
Energiya/Buran	Energiya	NPOE	-		0	1	58.7	7.75	2524.0 ?	88000	0	35139	O	250	
UR-500	Proton	KHRU	-		1	2	39.0	7.40	595.0	8400	0	9500	O	300	
UR-500K	Proton	KHRU	-	Proton-K	1	3	50.0	7.40	694.0	19000	0	9500	O	300	
UR-500K/Blok D	Proton	KHRU	-	Proton-K/D	1	6	55.4	7.40	691.5	5000	4350	9500	O	400000	
Proton-K	Proton	KHRU	-	Proton-K/D	1	3	50.0	7.40	694.0	21000	0	9500	O	300	
Proton-K/D	Proton	KHRU	-	Proton-K/D	1	6	55.4	7.40	691.5	5000	4350	9500	O	400000	
Proton-K/D-1	Proton	KHRU	-	Proton-K/D	1	6	55.4	7.40	691.5	5000	4350	9500	O	400000	
Proton-K/D-2	Proton	KHRU	-	Proton-K/D	1	6	55.4	7.40	691.5	5000	4350	9500	O	400000	
Proton-K/DM	Proton	KHRU	-	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/DM-2	Proton	KHRU	-	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/DM-2	Proton	KHRU	DM1	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-M	Proton	KHRU	-	Proton-K/D	1	3	53.0	7.40	712.8	21000	4500	10000	O	40000	
Proton-M/DM-2	Proton	KHRU	-	Proton-K/D	1	6	53.0	7.40	712.8	21000	4500	10000	O	40000	
Proton-M/DM-3	Proton	KHRU	-	Proton-K/D	1	6	53.0	7.40	712.8	21000	4500	10000	O	40000	
Proton-K/DM-2M	Proton	KHRU	DM-2M	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/DM-2M	Proton	KHRU	DM3	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/DM-2M	Proton	KHRU	DM4	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/17S40	Proton	KHRU	DM2	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/17S40	Proton	KHRU	DM-5	Proton-K/D	1	6	57.2	7.40	691.5	5000	4350	9500	O	40000	
Proton-K/Briz-M	Proton	KHRU	-	Proton-K/D	1	4	53.0	7.40	700.0 ?	21000	4500	9500	O	40000	
Proton-M/Briz-M	Proton	KHRU	-	Proton-K/D	1	4	53.0	7.40	712.8	21000	4500	10000	O	40000	
Neutron	Neutron	RLABU	-	Proton-K/D	1	2	42.8	7.00	480.0	-	-	6570	O	40000	
New Glenn	NewGlenn	BLORCC	-	Proton-K/D	1	2	98.0	7.00	1050.0 ?	-	-	17150	O	500	
Saturn C-1	Saturn	MSFC	-	Proton-K/D	1	3	49.6	6.60	420.0	9000	0	5768	O	200	
Saturn I	Saturn	MSFC	-	Proton-K/D	1	3	50.4	6.60	420.0	9000	0	5768	O	200	
Saturn I	Saturn	MSFC	Blk2	Proton-K/D	1	2	58.0	6.53	508.0 ?	9000	0	5768	O	200	
Saturn IB	Saturn	MSFC	-	Proton-K/D	1	2	68.1	6.53	587.3	-	-	7290	O	250	
Uprated Saturn I	Saturn	MSFC	-	Saturn IB	1	2	68.1	6.53	587.3	-	-	7290	O	250	
ATB	MX	RSLP	-	Saturn IB	1	1	16.0 ?	5.50	140.6	-	-	1711	T	10	
Vulcan Centaur VC0S	Vulcan	ULAD	-	Saturn IB	1	2	67.0	5.40	592.7	27200	15300	4900	O	40000	
Vulcan Centaur VC2S	Vulcan	ULAD	-	Saturn IB	0	2	67.0	5.40	698.7	27200	15300	8888	O	40000	
Vulcan Centaur VC4S	Vulcan	ULAD	-	Saturn IB	0	2	67.0	5.40	804.8	27200	15300	13288	O	40000	
Vulcan Centaur VC6S	Vulcan	ULAD	-	Saturn IB	0	2	67.0	5.40	910.8	27200	15300	17688	O	40000	
Ariane 5G	Ariane5	EADSL	-	Saturn IB	0	2	45.7	5.40	746.0	10000	6200	11400	O	40000	
Ariane 5G+	Ariane5	EADSL	-	Saturn IB	0	2	45.7	5.40	746.0	10000	6200	11400	O	40000	
Ariane 5GS	Ariane5	EADSL	-	Saturn IB	0	2	45.7	5.40	746.0	10000	6200	11400	O	40000	
Ariane 5ES/ATV	Ariane5	EADSL	-	Saturn IB	0	2	45.7	5.40	746.0	20000	6200	11400	O	40000	
Ariane 5ES	Ariane5	EADSL	-	Saturn IB	0	2	45.7	5.40	746.0	20000	6200	11400	O	40000	
Ariane 5ECA	Ariane5	EADSL	-	Saturn IB	0	2	57.7	5.40	780.0 ?	10000	10000	11400	O	40000	
Ariane 5ECA+	Ariane5	EADSL	-	Saturn IB	0	2	57.7	5.40	780.0 ?	10000	10000	11400	O	40000	
Ariane 62	Ariane5	ARIG	-	Saturn IB	0	2	60.0	5.40	530.0	-	5000	8400	O	40000	
Ariane 64	Ariane5	ARIG	-	Saturn IB	0	2	60.0	5.40	850.0	-	11500	15370	O	40000	
H3-30S	H2B	JAXA	-	Saturn IB	1	2	57.0	5.20	270.0	4000	0	3663	O	40000	
H3-22S	H2B	JAXA	-	Saturn IB	0	2	57.0	5.20	419.0	0	0	2442	O	40000	
H3-22L	H2B	JAXA	-	Saturn IB	0	2	63.0	5.20	420.0	0	6000	2442	O	40000	
H3-24L	H2B	JAXA	-	Saturn IB	0	2	63.0	5.20	572.0	0	6500	2442	O	40000	
H-IIB	H2B	JAXA	-	Saturn IB	0	2	56.6	5.20	551.0	19000	8000	9000	O	0	
Chang Zheng 5	CZ5	CALT	-	Saturn IB	0	2	59.5	5.00	643.0	25000	14000	1180	O	0	
Chang Zheng 5B	CZ5	CALT	-	Saturn IB	0	1	59.5	5.00	643.0	25000	14000	1180	O	0	
Chang Zheng 5/YZ-2	CZ5	CALT	-	Saturn IB	0	3	59.5	5.00	643.0	25000	14000	1180	O	0	
Chang Zheng 5B/YZ-2	CZ5	CALT	-	Saturn IB	0	2	59.5	5.00	643.0	25000	14000	1180	O	0	
Delta 4H	Delta4	BOHB	-	Saturn IB	0	2	70.7	5.00	733.4	-	-	8674	O	40000	
Delta 4H	Delta4	BOHB	A	Saturn IB	0	2	70.7	5.00	733.4	28800	14200	9372	O	40000	
Delta 4H	Delta4	BOHB	B	Saturn IB	0	2	70.7	5.00	733.4	-	-	8674	O	40000	
Delta 4H/Star 48BV	Delta4	BOHB	-	Saturn IB	0	3	70.7	5.00	733.4	-	-	8674	O	40000	
Delta 4M	Delta4	BOHB	-	Saturn IB	1	2	63.0	5.00	249.5	8120	4210	2891	O	40000	
Delta 4M+(4,2)	Delta4	BOHB	-	Saturn IB	0	2	66.2	5.00	292.7	10430	5845	4200	O	40000	
Delta 4M+(5,4)	Delta4	BOHB	-	Saturn IB	0	2	70.7	5.00	404.6	11700	6565	5860	O	40000	
Delta 4M+(5,2)	Delta4	BOHB	-	Saturn IB	0	2	70.7	5.00	404.6	11700	6565	5860	O	40000	
Delta 4M+(4,2)	Delta4	BOHB	A	Saturn IB	0	2	66.2	5.00	292.7	10430	5845	4200	O	40000	

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Delta 4M+(5,4)	Delta4	BOHB	A	Saturn IB	0	2	70.7	5.00	404.6	11700	6565	5860	O	40000	
Delta 4M+(5,2)	Delta4	BOHB	A	Saturn IB	0	2	70.7	5.00	404.6	11700	6565	5860	O	40000	
DC-XA	DC-X	MDAC	-	Saturn IB	1	1	12.6	4.95	19.0	0	0	242	T	10	
DC-X	DC-X	MDAC	-	Saturn IB	1	1	12.6	4.95	18.8	0	0	242	T	10	
H-II	H2	MHITO	-	Saturn IB	0	2	49.0	4.00	260.0	10060	3930	3960	O	40000	
H-II	H2	MHITO	(2S)	Saturn IB	-1	2	49.0	4.00	281.0 ?	10060	3930	4600	O	40000	
H-IIA 202	H2	NASDA	-	Saturn IB	0	2	53.0	4.00	285.0	10000	4100	5600	O	40000	
H-IIA 202	H2	NASDA	1	Saturn IB	0	2	53.0	4.00	285.0	10000	4100	5600	O	40000	
H-IIA 204	H2	NASDA	-	Saturn IB	0	2	53.0	4.00	285.0	10000	4100	5600	O	40000	
H-IIA 204	H2	NASDA	2	Saturn IB	0	2	53.0	4.00	285.0	10000	4100	5600	O	40000	
H-IIA 2022	H2	NASDA	-	Saturn IB	-1	2	57.0	4.00	348.0	-	5000	8580	O	40000	
H-IIA 2024	H2	NASDA	-	Saturn IB	-1	2	57.0	4.00	348.0	-	5000	8580	O	40000	
H-IIA 2024	H2	NASDA	1	Saturn IB	-1	2	57.0	4.00	348.0	-	5000	8580	O	40000	
GSLV Mk III	GSLV3	ISRO	a	Saturn IB	0	2	42.4	4.00	629.0	-	4000	-	O	40000	
GSLV Mk III	GSLV3	ISRO	-	Saturn IB	0	2	42.4	4.00	629.0	-	4000	-	O	40000	
LVM3	GSLV3	ISRO	-	GSLV Mk III	0	2	42.4	4.00	629.0	-	4000	-	O	40000	
Little Joe II	LJ2	GDA	6-1-0	GSLV Mk III	0	1	26.2	3.96	26.2	0	0	1482	T	10	
Little Joe II	LJ2	GDA	4-2-0	GSLV Mk III	0	1	26.2	3.96	42.7	0	0	1716	T	10	
Little Joe II	LJ2	GDA	0-3-3	GSLV Mk III	1	1	26.2	3.96	80.3	0	0	3276	T	35	
Little Joe II	LJ2	GDA	5-2-2	GSLV Mk III	0	1	26.2	3.96	63.3	0	0	2964	T	25	
Antares 110	Zenit	OSCW	-	GSLV Mk III	1	2	40.5	3.90	282.0	4600	1800	3631	O	300	
Antares 120	Zenit	OSCW	-	GSLV Mk III	1	2	40.5	3.90	282.0	4600	1800	3631	O	300	
Antares 130	Zenit	OSCW	-	GSLV Mk III	1	2	40.5	3.90	282.0	5100	1800	3631	O	300	
Antares 230	Zenit	OSCW	-	GSLV Mk III	1	2	42.5	3.90	290.0	6250	1800	3844	O	300	
Antares 230+	Zenit	OSCW	-	GSLV Mk III	1	2	42.5	3.90	290.0	6250	1800	3844	O	300	
Zenit-2	Zenit	YUZH	-	GSLV Mk III	1	2	57.0	3.90	459.0	13500	0	7259	O	1000	
Zenit-2M	Zenit	YUZH	-	GSLV Mk III	1	2	57.0	3.90	459.0	13500	0	7259	O	1000	
Zenit-2 11K77.05	Zenit	YUZH	-	GSLV Mk III	1	2	57.0	3.90	459.0	13500	0	7259	O	1000	
Zenit-3SL	Zenit	YUZH	-	GSLV Mk III	1	3	59.6	3.90	471.0	0	5000	7259	O	40000	
Zenit-2SB	Zenit	YUZH	-	GSLV Mk III	1	2	59.6	3.90	471.0	0	5000	7259	O	40000	
Zenit-3F	Zenit	YUZH	-	GSLV Mk III	1	3	59.0 ?	3.90	471.0 ?	0	5000	7259	O	40000	
Zenit-3SLB	Zenit	YUZH	-	GSLV Mk III	1	3	59.6	3.90	471.0	0	5000	7259	O	40000	
Zenit-3SLBF	Zenit	YUZH	-	Zenit-3F	1	3	59.6	3.90	471.0	0	5000	7259	O	40000	
Atlas V 401	Atlas5	LMA	-	Zenit-3F	1	2	58.3	3.80	334.5	-	4750	3800	O	40000	
Atlas V 401	Atlas5	LMA	C	Zenit-3F	1	2	58.3	3.80	334.5	-	4750	3800	O	40000	
Atlas V 411	Atlas5	LMA	-	Zenit-3F	0	2	58.3	3.80	386.8	-	5950	-	O	40000	
Atlas V 411	Atlas5	LMA	C	Zenit-3F	0	2	58.3	3.80	386.8	-	5950	-	O	40000	
Atlas V 421	Atlas5	LMA	-	Zenit-3F	0	2	58.3	3.80	433.8	-	6890	-	O	40000	
Atlas V 421	Atlas5	LMA	C	Zenit-3F	0	2	58.3	3.80	433.8	-	6890	-	O	40000	
Atlas V 421	Atlas5	LMA	C1	Zenit-3F	0	2	58.3	3.80	433.8	-	6890	-	O	40000	
Atlas V 421	Atlas5	LMA	G1	Zenit-3F	0	2	58.3	3.80	433.8	-	6890	-	O	40000	
Atlas V 431	Atlas5	LMA	-	Zenit-3F	0	2	59.1	3.80	479.7	-	7700	-	O	40000	
Atlas V 431	Atlas5	LMA	C	Zenit-3F	0	2	59.1	3.80	479.7	-	7700	-	O	40000	
Atlas V 501	Atlas5	LMA	-	Zenit-3F	1	2	58.3	3.80	334.5	-	3775	-	O	40000	
Atlas V 501	Atlas5	LMA	C	Zenit-3F	1	2	58.3	3.80	334.5	-	3775	-	O	40000	
Atlas V 521	Atlas5	LMA	-	Zenit-3F	0	2	59.7	3.80	433.5	14000	6475	6520	O	40000	
Atlas V 511	Atlas5	LMA	G	Zenit-3F	0	2	59.7	3.80	433.5	14000	6475	6520	O	40000	
Atlas V 531	Atlas5	LMA	-	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 531	Atlas5	LMA	G	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 531	Atlas5	LMA	G1	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 541	Atlas5	LMA	-	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 541	Atlas5	LMA	C	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 541	Atlas5	LMA	G	Zenit-3F	0	2	60.0	3.80	479.7	-	7700	-	O	40000	
Atlas V 551	Atlas5	LMA	-	Zenit-3F	0	2	59.7	3.80	573.2	-	8900	-	O	40000	
Atlas V 551	Atlas5	LMA	C	Zenit-3F	0	2	59.7	3.80	573.2	-	8900	-	O	40000	
Atlas V 551	Atlas5	LMA	G	Zenit-3F	0	2	59.7	3.80	573.2	-	8900	-	O	40000	
Atlas V N22	Atlas5	LMA	-	Zenit-3F	0	2	52.4	3.80	444.2	-	6890	-	O	40000	
Ariane 1	Ariane	AELM	-	Zenit-3F	1	3	47.4	3.80	210.0	-	1400	2462	O	40000	
Ariane 2	Ariane	AELM	-	Zenit-3F	1	3	49.0	3.80	217.0	-	2175	2689	O	40000	
Ariane 3	Ariane	AELM	-	Zenit-3F	0	3	49.0	3.80	237.0	-	2700	4021	O	40000	
Ariane 40	Ariane	AELM	40	Zenit-3F	1	3	58.4	3.80	243.0	2700	1900	2708	O	1000	
Ariane 40	Ariane	AELM	40+	Zenit-3F	1	3	58.4	3.80	245.0	2740	-	2718	O	1000	
Ariane 40	Ariane	AELM	40-3	Zenit-3F	1	3	58.4	3.80	245.0	2740	-	2718	O	1000	
Ariane 42L	Ariane	AELM	42L	Zenit-3F	0	3	58.4	3.80	363.0	-	2800	4208	O	40000	
Ariane 42L	Ariane	AELM	42L+	Zenit-3F	0	3	58.4	3.80	363.0	-	3350	4228	O	40000	
Ariane 42L	Ariane	AELM	42L-3	Zenit-3F	0	3	58.4	3.80	363.0	-	3480	4228	O	40000	
Ariane 42P	Ariane	AELM	42P	Zenit-3F	0	3	58.4	3.80	320.0	-	2600	4008	O	40000	
Ariane 42P	Ariane	AELM	42P+	Zenit-3F	0	3	58.4	3.80	324.0	-	2740	4028	O	40000	
Ariane 42P	Ariane	AELM	42P-3	Zenit-3F	0	3	58.4	3.80	324.0	-	2930	4028	O	40000	
Ariane 44L	Ariane	AELM	44L	Zenit-3F	0	3	58.4	3.80	470.0	-	4200	5708	O	40000	
Ariane 44L	Ariane	AELM	44L+	Zenit-3F	0	3	58.4	3.80	484.0	-	4460	5728	O	40000	
Ariane 44L	Ariane	AELM	44L-3	Zenit-3F	0	3	58.4	3.80	484.0	-	4820	5728	O	40000	
Ariane 44LP	Ariane	AELM	44LP	Zenit-3F	-1	3	58.4	3.80	418.5	-	3700	5528	O	40000	

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Ariane 44LP	Ariane	AELM	44LP+	Zenit-3F	-1	3	58.4	3.80	421.0	-	4030	5508	O	40000	
Ariane 44LP	Ariane	AELM	44LP-3	Zenit-3F	-1	3	58.4	3.80	421.0	-	4220	5528	O	40000	
Ariane 44P	Ariane	AELM	44P	Zenit-3F	0	3	58.4	3.80	355.0	-	3000	5308	O	40000	
Ariane 44P	Ariane	AELM	44P-3	Zenit-3F	0	3	58.4	3.80	356.0	-	3465	5328	O	40000	
Tianlong-3	TL3	TIANB	-	Zenit-3F	1	2	71.0	3.80	590.0	-	17000	7600	O	-	
Tianlong-3 S1	TL3	TIANB	-	Zenit-3F	1	1	71.0	3.80	590.0	-	17000	7600	O	-	
Longxing-2	CZ12	SAST	-	Zenit-3F	1	1	30.0 ?	3.80	-	-	0	0	T	-	
Chang Zheng 12	CZ12	SAST	-	Zenit-3F	1	2	62.0	3.80	433.0	-	6000	5000	O	-	
Ares I-X	SRB	MSFC	-	Zenit-3F	1	1	100.0	3.77	834.0	-	0	0	T	45	
LM AS	LMAS	GRUM	-	Zenit-3F	1	1	2.5	3.76	4.9	2000	0	-	D	100	
Dragon V2	Dragon	SPX	-	Zenit-3F	1	1	6.1	3.70	4.2	0	0	584	X	1	
Falcon Heavy	Falcon9	SPX	-	Zenit-3F	0	2	69.2	3.65	1400.0	54400	22200	17000	O	200	
Falcon 9	Falcon9	SPX	-	Zenit-3F	1	2	54.9	3.65	333.4	9300	3400	4940	O	200	
Falcon 9	Falcon9	SPX	FT5	Zenit-3F	1	2	68.4	3.65	480.0	13150	4850	5886	O	200	
Falcon 9	Falcon9	SPX	FT4/5	Zenit-3F	1	2	68.4	3.65	480.0	13150	4850	5886	O	200	
Falcon 9	Falcon9	SPX	FT4	Zenit-3F	1	2	71.0	3.65	480.0	22800	8300	5886	O	200	
Falcon 9	Falcon9	SPX	FT3	Zenit-3F	1	2	71.0	3.65	480.0	22800	8300	5886	O	200	
Falcon 9	Falcon9	SPX	1.1	Zenit-3F	1	2	71.0	3.65	480.0	13150	4850	5886	O	200	
Falcon 9	Falcon9	SPX	FT3/4	Zenit-3F	1	2	71.0	3.65	480.0	13150	4850	5886	O	200	
Grasshopper	Falcon9	SPX	-	Zenit-3F	1	1	34.0	3.65	200.0 ?	0	0	540	X	1	
Falcon 9R	Falcon9	SPX	1	Zenit-3F	1	1	49.0	3.65	480.0	13150	4850	5886	O	10	
Nuri	KSLV2	KARI	-	Zenit-3F	1	3	47.2	3.50	200.0	0	0	2942	O	500	
Vega C	VegaC	AVIO	-	Zenit-3F	1	4	35.0	3.40	210.0	0	3300	-	O	500	
X-15	X-15	NAA	-	Zenit-3F	0	1	15.3	3.55	14.2	0	0	257	X	100	
X-15	X-15	NAA	1	Zenit-3F	0	1	15.3	3.55	14.2	0	0	72	X	50	
Zhuque-2	ZQ-2	LANDSP	-	Zenit-3F	1	2	49.5	3.35	216.0	0	0	2630	O	500	
Zhuque-2E	ZQ-2	LANDSP	-	Zenit-3F	1	2	49.5	3.35	229.0	0	0	2880	O	500	
Zhuque-2E	ZQ-2	LANDSP	1	Zenit-3F	1	2	47.3	3.35	219.0	4000	0	2770	O	500	
Dong Feng 5	DF5	CALT	-	Zenit-3F	1	2	32.6	3.35	183.0	0	0	2500	M	1000	13000
Dong Feng 5A	DF5	CALT	-	Zenit-3F	1	2	32.6	3.35	183.0	0	0	2500	M	1000	13000
Dong Feng 5C	DF5	CALT	-	Zenit-3F	1	2	32.6	3.35	183.0	0	0	2500	M	1000	13000
Feng Bao 1	DF5	SBA	-	Zenit-3F	1	2	32.6	3.35	192.0	2200	0	2500	O	1000	13000
Chang Zheng 2	DF5	CALT	-	Zenit-3F	1	2	31.2	3.35	190.0	2200	0	2786	O	500	13000
Chang Zheng 2C	DF5	CALT	-	Zenit-3F	1	2	35.2	3.35	192.0	2800	0	2962	O	500	13000
Chang Zheng 2C	DF5	CALT	a	Zenit-3F	1	2	37.2 ?	3.35	213.0	2800	0	2962	O	500	13000
Chang Zheng 2C	DF5	CALT	b	Zenit-3F	1	2	41.9	3.35	245.0	2800	0	2962	O	500	13000
Chang Zheng 2C	DF5	CALT	SM	Zenit-3F	1	2	37.2	3.35	213.0	2800	0	2962	O	500	13000
Chang Zheng 2C	DF5	CALT	SMA	Zenit-3F	1	2	37.2	3.35	245.0	2800	0	2962	O	500	13000
Chang Zheng 2C/YZ-1S	DF5	CALT	-	Zenit-3F	1	3	41.0	3.35	213.0	2800	0	2962	O	500	13000
Chang Zheng 2C-III/SD	DF5	CALT	-	Zenit-3F	1	3	39.9	3.35	213.0	2800	0	2962	O	1000	13000
Chang Zheng 2D	DF5	SAST	a	Zenit-3F	1	2	38.3	3.35	232.0	3400	0	2962	O	500	13000
Chang Zheng 2D	DF5	SAST	-	Zenit-3F	1	2	38.3	3.35	232.0	3400	0	2962	O	500	13000
Chang Zheng 2D/YZ-3	DF5	SAST	-	Zenit-3F	1	3	38.3	3.35	232.0	3400	0	2962	O	500	13000
Chang Zheng 2E	DF5	CALT	-	Zenit-3F	0	2	51.2	3.35	464.0	9200	3500	5923	O	500	13000
Chang Zheng 2F	DF5	CALT	-	Zenit-3F	0	2	51.2	3.35	464.0	9200	3500	5923	O	500	13000
Chang Zheng 2F	DF5	CALT	G	Zenit-3F	0	2	51.2	3.35	464.0	9200	3500	5923	O	500	13000
Chang Zheng 2F	DF5	CALT	T	Zenit-3F	0	2	51.2	3.35	480.0	9200	3500	5923	O	500	13000
Chang Zheng 3	DF5	CALT	-	Zenit-3F	1	3	43.9	3.35	202.0	0	1400	2962	O	40000	13000
Chang Zheng 3A	DF5	CALT	-	Zenit-3F	1	3	52.5	3.35	240.0	0	2300	2962	O	40000	13000
Chang Zheng 3B	DF5	CALT	-	Zenit-3F	0	3	54.8	3.35	425.8	0	4800	5923	O	40000	13000
Chang Zheng 3B	DF5	CALT	G1	Zenit-3F	0	3	56.5	3.35	457.0	0	5400	5923	O	40000	13000
Chang Zheng 3B	DF5	CALT	G2	Zenit-3F	0	3	56.5	3.35	457.0	0	5400	5923	O	40000	13000
Chang Zheng 3B	DF5	CALT	G3	Zenit-3F	0	3	56.5	3.35	457.0	0	5400	5923	O	40000	13000
Chang Zheng 3B	DF5	CALT	G5	Zenit-3F	0	3	58.0	3.35	456.0	0	5400	5923	O	40000	13000
Chang Zheng 3C	DF5	CALT	-	Zenit-3F	0	3	54.8	3.35	345.0	0	4800	4441	O	40000	13000
Chang Zheng 3C	DF5	CALT	G2	Zenit-3F	0	3	54.8	3.35	345.0	0	4800	4441	O	40000	13000
Chang Zheng 3C/YZ-1	DF5	CALT	-	Zenit-3F	0	4	54.8	3.35	345.0	0	4800	4441	O	40000	13000
Chang Zheng 3B/YZ-1	DF5	CALT	G3Z	Zenit-3F	0	4	54.8	3.35	345.0	0	4800	4441	O	40000	13000
Chang Zheng 6	DF5	SAST	-	Zenit-3F	1	3	29.0	3.35	103.0	1000	0	-	O	0	13000
Chang Zheng 6A	DF5	SAST	-	Zenit-3F	0	2	50.0 ?	3.35	530.0 ?	1000	0	-	O	0	13000
Chang Zheng 6C	DF5	SAST	-	Zenit-3F	1	2	29.0	3.35	103.0	1000	0	-	O	0	13000
Chang Zheng 7	DF5	CALT	-	Zenit-3F	0	2	53.1	3.35	594.0	13500	7000	-	O	0	13000
Chang Zheng 7A	DF5	CALT	-	Zenit-3F	0	3	55.0	3.35	615.0 ?	13500	7000	-	O	0	13000
Chang Zheng 7/YZ-1A	DF5	CALT	-	Zenit-3F	0	3	53.1	3.35	594.0	13500	7000	-	O	0	13000
Chang Zheng 8	DF5	CALT	-	Zenit-3F	0	2	53.1	3.35	594.0	8400	2800	4800	O	0	13000
Chang Zheng 8	DF5	CALT	0	Zenit-3F	1	2	53.1	3.35	594.0	8400	2800	4800	O	0	13000
Chang Zheng 8A	DF5	CALT	-	Zenit-3F	0	2	50.5	3.35	371.0	8400	2800	4800	O	0	13000
Chang Zheng 4	DF5	SAST	-	Zenit-3F	1	3	42.0	3.35	249.0	1650	0	2962	O	1000	13000
Chang Zheng 4B	DF5	SAST	-	Zenit-3F	1	3	43.1	3.35	254.4	2800	1500	2962	O	1000	13000
Chang Zheng 4C	DF5	SAST	-	Zenit-3F	1	3	43.1	3.35	254.4	2800	1500	2962	O	1000	13000
Tianlong-2	TL2	TIANB	-	Zenit-3F	1	3	32.8	3.35	150.0	2000	0	1860	O	0	13000
Titan I	Titan	MARTD	-	Zenit-3F	1	2	31.0	3.05	105.1	0	0	1450	M	1000	13000
Titan II	Titan	MARTD	-	Zenit-3F	1	2	31.1	3.05	150.0	0	0	2000	M	1380	13000

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Titan II GLV	Titan	MARTD	-	Zenit-3F	1	2	32.8	3.05	150.0	3600	0	2090	O	300	13000
Titan II SLV	Titan	MARTD	-	Zenit-3F	1	2	34.6	3.05	155.0	1900	0	2090	O	1000	13000
Titan IIIA	Titan	MARTD	-	Zenit-3F	1	3	42.0	3.05	161.7	4100	-	2300	O	4000	13000
Titan IIIB	Titan	MMD	-	Zenit-3F	1	3	45.0	3.05	156.5	3700	0	2300	O	1000	13000
Titan IIIC	Titan	MMD	-	Zenit-3F	0	3	38.3	3.05	626.2	13300	3000	10600	O	40000	13000
Titan IIID	Titan	MMD	-	Zenit-3F	0	2	36.0	3.05	613.0	11200	0	10600	O	1000	13000
Titan IIIE	Titan	MMD	-	Zenit-3F	0	3	48.8	3.05	633.0	14000	0	10600	O	400000	13000
Titan 23B	Titan	MMD	-	Zenit-3F	1	3	45.0 ?	3.05	165.0 ?	3600	-	2300	O	1000	13000
Titan 24B	Titan	MMD	-	Zenit-3F	1	3	45.0	3.05	170.0 ?	3600	-	2410	O	1000	13000
Titan 33B	Titan	MMD	-	Zenit-3F	1	3	45.0 ?	3.05	185.0 ?	3600	-	2300	O	40000	13000
Titan 34B	Titan	MMD	-	Zenit-3F	1	3	45.5	3.05	188.5	3600	0	2410	O	40000	13000
Titan 34D	Titan	MMD	-	Zenit-3F	0	2	50.0	3.05	723.5	15350	0	11280	O	40000	13000
Titan 34D/Transtage	Titan	MMD	-	Zenit-3F	0	3	50.0	3.05	720.0 ?	0	5000	11280	O	40000	13000
Titan 34D/IUS	Titan	MMD	-	Zenit-3F	0	4	52.4	3.05	725.0 ?	0	5000	11280	O	40000	13000
Commercial Titan 3	Titan	MMD	-	Zenit-3F	0	2	47.3	3.05	680.0	14515	1850	12450	O	40000	13000
Titan 401A/Centaur	Titan	LMA	-	Zenit-3F	0	3	63.1	3.05	868.0	0	-	14200	O	40000	13000
Titan 402A/IUS	Titan	LMA	-	Zenit-3F	0	4	54.0	3.05	910.0	0	-	14200	O	40000	13000
Titan 403A	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	906.0	17700	0	14200	O	1000	13000
Titan 404A	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	906.0	17700	0	14200	O	1000	13000
Titan 405A	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	906.0	17700	0	14200	O	1000	13000
Titan 401B/Centaur	Titan	LMA	-	Zenit-3F	0	3	62.2	3.05	939.0	0	9000	15000	O	400000	13000
Titan 402B/IUS	Titan	LMA	-	Zenit-3F	0	4	54.0	3.05	925.0	0	-	15000	O	40000	13000
Titan 403B	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	910.0	21680	0	15000	O	1000	13000
Titan 404B	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	910.0	21680	0	15000	O	1000	13000
Titan 405B	Titan	LMA	-	Zenit-3F	0	2	54.0	3.05	910.0	21680	0	15000	O	1000	13000
Blue Streak	BlueStreak	ELDO	-	Zenit-3F	1	1	31.7	3.05	100.0 ?	0	0	1512	X	250	13000
ELDO A	BlueStreak	ELDO	-	Zenit-3F	1	3	31.7	3.05	104.6	1000	200	1512	O	2000	13000
Europa I	BlueStreak	ELDO	-	Zenit-3F	1	3	31.7	3.05	104.6	1000	200	1512	O	2000	13000
Europa II	BlueStreak	ELDO	-	Zenit-3F	1	4	31.7	3.05	111.7	1160	360	1512	O	40000	13000
Atlas A	Atlas	GDA	-	Zenit-3F	0	1	22.9	3.05	82.0	0	0	1210	X	120	900
Atlas B	Atlas	GDA	-	Zenit-3F	0	1	22.0	3.05	112.5	68	0	1615	O	900	6000
Atlas C	Atlas	GDA	-	Zenit-3F	0	1	24.0	3.05	112.5 ?	0	0	1615	M	900	8000
Atlas D	Atlas	GDA	-	Zenit-3F	0	1	24.0	3.05	119.0	1400	0	1629	O	1855	13000
Atlas E	Atlas	GDA	-	Zenit-3F	0	1	20.0	3.05	121.0	1700	0	1731	O	1570	13000
Atlas F	Atlas	GDA	-	Zenit-3F	0	1	20.0	3.05	121.0	1700	0	1731	O	1413	13000
Atlas F/Trident	Atlas	GDA	-	Zenit-3F	0	2	25.0 ?	3.05	130.0 ?	0	0	1731	M	1500	13000
Atlas E/Trident	Atlas	GDA	-	Zenit-3F	0	2	25.0 ?	3.05	130.0 ?	0	0	1731	M	1500	13000
Atlas C Able	Atlas	GDA	-	Zenit-3F	0	3	28.0 ?	3.05	120.0 ?	170	0	1615	O	400000	13000
Atlas F/Agena D	Atlas	GDA	-	Zenit-3F	0	2	34.6	3.05	130.0 ?	-	0	1731	O	1000	13000
Atlas F/MSD	Atlas	GDA	-	Zenit-3F	0	2	27.3	3.05	122.0 ?	1200	0	1731	O	1100	13000
Atlas E/MSD	Atlas	GDA	-	Zenit-3F	0	2	27.3	3.05	122.0 ?	1200	0	1731	O	1100	13000
Atlas E Altair	Atlas	GDA	-	Zenit-3F	0	2	27.3 ?	3.05	125.0 ?	0	0	1731	O	1000	13000
Atlas F/OIS	Atlas	GDA	-	Zenit-3F	0	2	32.1 ?	3.05	120.0 ?	-	0	1731	O	550	13000
Atlas E/OIS	Atlas	GDA	-	Zenit-3F	0	2	28.7	3.05	120.0 ?	-	0	1731	O	800	13000
Atlas F/PTS	Atlas	GDA	-	Zenit-3F	0	2	29.2	3.05	125.0 ?	295	295	1731	O	20000	13000
Atlas E/SVS	Atlas	GDA	-	Zenit-3F	0	3	29.2	3.05	125.0 ?	700	0	1731	O	20000	13000
Atlas F/SVS	Atlas	GDA	-	Zenit-3F	0	3	29.2	3.05	125.0 ?	700	0	1731	O	20000	13000
Atlas E/SGS-2	Atlas	GDA	-	Zenit-3F	0	3	32.1 ?	3.05	125.0 ?	861	0	1731	O	20000	13000
Atlas SLV-3	Atlas	GDA	-	Zenit-3F	0	1	21.0 ?	3.05	120.0 ?	0	0	1650	O	1500	13000
Atlas G Centaur	Atlas	GDA	-	Zenit-3F	0	2	41.8	3.05	166.1	3630	2400	1987	O	40000	13000
Atlas H	Atlas	GDA	-	Zenit-3F	0	1	27.4	3.05	150.5	2000	0	1954	O	1100	13000
Atlas Able	Atlas	GDA	-	Zenit-3F	0	3	35.0	3.05	120.0	-	0	1629	O	400000	13000
Atlas Agena A	Atlas	GDA	-	Zenit-3F	0	2	30.0 ?	3.05	124.0	-	0	1629	O	600	13000
Atlas Agena B	Atlas	GDA	-	Zenit-3F	0	2	32.1 ?	3.05	130.0 ?	-	0	1629	O	400000	13000
Atlas Agena D	Atlas	GDA	-	Zenit-3F	0	2	32.1	3.05	130.0 ?	-	800	1590	O	400000	13000
Atlas SLV-3 Agena B	Atlas	GDA	-	Zenit-3F	0	2	32.1 ?	3.05	140.0 ?	-	0	1629	O	400000	13000
Atlas SLV-3 Agena D	Atlas	GDA	-	Zenit-3F	0	2	32.1 ?	3.05	140.0 ?	-	850	1629	O	400000	13000
Atlas SLV-3A Agena D	Atlas	GDA	-	Zenit-3F	0	2	36.0	3.05	155.0 ?	-	1000	1700	O	150000	13000
Atlas Burner 2	Atlas	GDA	-	Zenit-3F	0	2	28.9	3.05	130.0 ?	-	0	1700	O	800	13000
Atlas Burner 2A	Atlas	GDA	-	Zenit-3F	0	3	30.0 ?	3.05	130.0 ?	-	0	1700	O	800	13000
Atlas Centaur	Atlas	GDA	-	Zenit-3F	0	2	33.0	3.05	136.1	-	1700	1629	O	400000	13000
Atlas Centaur D	Atlas	GDA	-	Zenit-3F	0	2	33.0	3.05	136.1	-	1700	1629	O	400000	13000
Atlas SLV-3C Centaur	Atlas	GDA	-	Zenit-3F	0	2	40.2	3.05	148.4	-	1800	1700	O	400000	13000
Atlas SLV-3D Centaur	Atlas	GDA	-	Zenit-3F	0	2	40.3	3.05	149.0	-	1900	1741	O	400000	13000
Atlas I	Atlas	LMA	-	Zenit-3F	0	2	41.8	3.05	166.1	-	2250	1987	O	400000	13000
Atlas II	Atlas	LMA	-	Zenit-3F	0	2	45.0 ?	3.05	187.0 ?	6580	2770	2140	O	40000	13000
Atlas IIA	Atlas	LMA	-	Zenit-3F	0	2	47.4	3.05	187.5	7316	3066	2140	O	100000	13000
Atlas IIAS	Atlas	LMA	-	Zenit-3F	-1	2	47.4	3.05	237.2	8618	3719	3000	O	400000	13000
Atlas 3A	Atlas	LMA	-	Zenit-3F	1	2	52.8	3.05	225.0	8620	4060	3827	O	40000	13000
Atlas 3B	Atlas	LMA	SEC	Zenit-3F	1	2	53.6	3.05	225.0	8620	4060	3827	O	40000	13000
Atlas 3B	Atlas	LMA	DEC	Zenit-3F	1	2	53.6	3.05	225.0	8620	4060	3827	O	40000	13000
New Shepard	NewShepard	BLOR	-	Zenit-3F	1	1	15.0	3.00	75.0	0	0	1020	O	100	13000
Vega	Vega	ELV	-	Zenit-3F	1	4	30.1	3.00	136.7	1500	-	2974	O	1000	13000

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Vega	Vega	ELV	1	Zenit-3F	1	4	30.1	3.00	136.7	1500	-	2974	O	1000	13000
YGCS	YGCS	CALT	-	Zenit-3F	1	1	20.0 ?	3.00 ?	100.0 ?	0	0	-	M	200	13000
Sarmat	Sarmat	MAK	-	Zenit-3F	1	2	35.5 ?	3.00	208.1 ?	0	0	-	M	1000	13000
R-36	R-36	OKB586	-	Zenit-3F	1	2	34.1	3.00	183.9	0	0	2360	M	1000	1100
R-36 8K67	R-36	OKB586	-	Zenit-3F	1	2	34.1	3.00	183.9	0	0	2360	M	1000	1100
R-36 8K67P	R-36	OKB586	-	Zenit-3F	1	2	33.9	3.00	183.9	0	0	2360	M	1000	1100
R-36 8K67PM	R-36	OKB586	-	Zenit-3F	1	2	33.9	3.00	183.9	0	0	2360	M	1000	1100
R-36 8K67M	R-36	OKB586	-	Zenit-3F	1	2	34.6	3.00	185.0	0	0	2360	M	1000	1100
R-36 8K67MA	R-36	OKB586	-	Zenit-3F	1	2	34.6	3.00	185.0	0	0	2360	M	1000	1100
R-36O 8K69	R-36	OKB586	-	Zenit-3F	1	2	35.0	3.00	180.0	0	0	2360	O	200	1100
R-36O 8K69M	R-36	OKB586	-	Zenit-3F	1	2	35.0	3.00	180.0	0	0	2360	O	200	1100
Tsiklon-2A	R-36	OKB586	-	Zenit-3F	1	2	39.7	3.00	180.0	3000	0	2652	O	1000	1100
Tsiklon-2	R-36	OKB586	-	Zenit-3F	1	2	35.5	3.00	180.0	3350	0	2652	O	1000	1100
Tsiklon-3	R-36	YUZH	-	Zenit-3F	1	3	39.3	3.00	190.0	4100	0	2745	O	2000	1100
R-36M 15A14	R-36	YUZH	-	Zenit-3F	1	2	33.6	3.00	209.6	0	0	4500	M	1000	150
R-36MU 15A18	R-36	YUZH	-	Zenit-3F	1	3	34.3	3.00	211.0	0	0	4525	M	1000	110
R-36M2 15A18M	R-36	YUZH	-	Zenit-3F	1	3	37.0	3.00	211.1	0	0	4500	M	1000	110
Dnepr	R-36	YUZH	-	Zenit-3F	1	3	34.3	3.00	211.0	4500	0	4525	O	1500	110
R-16	R-16	OKB586	-	Zenit-3F	1	2	34.3	3.00	140.6	0	0	2610	M	1000	110
R-16U	R-16	OKB586	-	Zenit-3F	1	2	34.3	3.00	140.6	0	0	2610	M	1000	130
UR-200	UR-200	KHRU	-	Zenit-3F	1	2	26.4	3.00	138.0	0	0	2001	M	1000	120
R-7	R-7	OKB1	-	Zenit-3F	1	2	34.2	2.95	274.3	0	0	3904	M	1000	120
R-7	R-7	OKB1	71/III	Zenit-3F	1	2	33.5	2.95	279.1	0	0	3904	M	1000	120
R-7A	R-7	OKB1	-	Zenit-3F	1	2	31.1	2.95	276.6	0	0	4020	M	1000	120
Sputnik 8K71PS	R-7	OKB1	-	Zenit-3F	1	2	29.2	2.95	265.0	500	0	3904	O	1500	120
Sputnik 8A91	R-7	OKB1	-	Zenit-3F	1	2	29.2	2.95	268.6	500	0	3806	O	1500	120
Voskhod 11A57	R-7	OKB1	-	Zenit-3F	1	3	44.0	2.95	305.1	5600	0	4054	O	500	120
Vostok-L 8K72	R-7	OKB1	-	Zenit-3F	1	3	33.5	2.95	279.1	4000	0	3998	O	400000	120
Vostok 8K72	R-7	OKB1	-	Zenit-3F	1	3	38.4	2.95	283.5	4500	0	3998	O	500	120
Vostok 8K72	R-7	OKB1	K	Zenit-3F	1	3	38.4	2.95	287.0	4700	0	3998	O	70000	120
Vostok 8A92	R-7	OKB1	-	Zenit-3F	1	3	38.4	2.95	285.9	4750	0	4020	O	500	120
Vostok 8A92M	R-7	PROG	-	Zenit-3F	1	3	38.8	2.95	283.1	1280	0	4020	O	1000	120
Polyot 11A59	R-7	OKB1	-	Zenit-3F	1	2	34.5	2.95	275.3	2250	0	4020	O	1500	120
Vostok-2A 11A510	R-7	OKB1	-	Zenit-3F	1	2	37.9	2.95	280.7	3600	0	4054	O	250	120
Soyuz 11A511	R-7	PROG/OKB1	-	Zenit-3F	1	3	50.0 ?	2.95	300.0 ?	6500	0	4054	O	400	120
Soyuz 11A511L	R-7	PROG/OKB1	-	Zenit-3F	1	3	50.0 ?	2.95	300.0 ?	6500	0	4054	O	400	120
Soyuz 11A511M	R-7	PROG/OKB1	-	Zenit-3F	1	3	50.0 ?	2.95	300.0 ?	6500	0	4054	O	400	120
Soyuz-U	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	310.0	7200	0	4032	O	500	120
Soyuz-U-PVB	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	310.0	7200	0	4032	O	500	120
Soyuz-U2	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	310.0	7200	0	4062	O	500	120
Soyuz-U-PVB	R-7	PROG	Ikar	Zenit-3F	1	4	43.4	2.95	305.0	4100	0	4032	O	500	120
Soyuz-U-PVB	R-7	PROG	Fregat	Zenit-3F	1	4	42.5	2.95	308.0	5000	0	4146	O	500	120
Soyuz-2-1A	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-2-1B	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-2-1A	R-7	PROG	Fregat	Zenit-3F	1	4	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-2-1A	R-7	PROG	Volga	Zenit-3F	1	4	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-2-1B	R-7	PROG	Fregat	Zenit-3F	1	4	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-2-1V	Blok-A	PROG	-	Zenit-3F	1	2	41.1	2.95	160.0	2800	0	-	O	0	120
Soyuz-2-1V	Blok-A	PROG	Volga	Zenit-3F	1	3	41.1	2.95	160.0	2800	0	-	O	0	120
Soyuz-ST-A	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-ST-A	R-7	PROG	Fregat	Zenit-3F	1	4	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-ST-B	R-7	PROG	-	Zenit-3F	1	3	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-ST-B	R-7	PROG	Fregat	Zenit-3F	1	4	50.7	2.95	313.0	7600	0	4146	O	500	120
Soyuz-FG	R-7	PROG	-	Zenit-3F	1	3	46.0 ?	2.95	308.0	7200	0	4146	O	500	120
Soyuz-FG	R-7	PROG	Fregat	Zenit-3F	1	4	46.0 ?	2.95	308.0	7200	0	4146	O	500	120
Molniya 8K78	R-7	OKB1	-	Zenit-3F	1	5	44.0	2.95	305.5	-	0	4020	O	400000	120
Molniya 8K78	R-7	OKB1	E6	Zenit-3F	1	5	44.4	2.95	306.2	-	0	4054	O	400000	120
Molniya 8K78	R-7	OKB1	M	Zenit-3F	1	5	44.4	2.95	306.2	-	0	4054	O	400000	120
Molniya 8K78M	R-7	PROG	-	Zenit-3F	1	5	42.8	2.95	305.5	-	0	4054	O	400000	120
Molniya 8K78M	R-7	PROG	M1M	Zenit-3F	1	5	42.8	2.95	305.5	-	0	4054	O	400000	120
Molniya 8K78M	R-7	PROG	ML	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Molniya 8K78M-PVB	R-7	PROG	ML	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Molniya 8K78M	R-7	PROG	SOL	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	400000	120
Molniya 8K78M	R-7	PROG	VL	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Molniya 8K78M	R-7	PROG	MVL	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Molniya 8K78M	R-7	PROG	2BL	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Molniya 8K78M-PVB	R-7	PROG	2BL	Zenit-3F	1	5	43.4	2.95	305.0	0	2000	4054	O	40000	120
Angara A5	Angara	KHRU	-	Zenit-3F	0	3	42.8 ?	2.90	773.0	24500	5400	2095	O	200	120
Angara A5/Persei	Angara	KHRU	-	Zenit-3F	0	3	42.8 ?	2.90	773.0	24500	5400	2095	O	200	120
Angara A5/Orion	Angara	KHRU	-	Zenit-3F	0	3	42.8 ?	2.90	773.0	24500	5400	2095	O	200	120
Angara-1.2PP	Angara	KHRU	-	Zenit-3F	1	2	42.8	2.90	171.0	0	0	2095	O	200	120
Angara-1.2	Angara	KHRU	-	Zenit-3F	1	3	42.8	2.90	171.0	0	0	2095	O	200	120
Naro-1	Angara	KARI	-	Zenit-3F	1	2	33.5	2.90	140.0	100	0	2095	O	200	120

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
PSLV	PSLV	VSSC/SHAR	-	Zenit-3F	0	4	44.4	2.80	294.0	1600	800	5290	O	1000	120
PSLV	PSLV	VSSC/SHAR	C	Zenit-3F	0	4	44.4	2.80	294.0	1600	1000	5290	O	1000	120
PSLV	PSLV	VSSC/SHAR	CA	Zenit-3F	1	4	44.4	2.80	230.0	1300	1000	4430	O	1000	120
PSLV-DL	PSLV	VSSC/SHAR	-	Zenit-3F	0	4	44.4	2.80	230.0	1300	1000	4430	O	1000	120
PSLV-QL	PSLV	VSSC/SHAR	-	Zenit-3F	0	4	44.4	2.80	230.0	1300	1000	4430	O	1000	120
PSLV-XL	PSLV	VSSC/SHAR	-	Zenit-3F	0	4	44.4	2.80	230.0	1800	1000	9230	O	1000	120
GSLV Mk I	PSLV	VSSC/SHAR	a	Zenit-3F	0	3	49.0	2.80	401.0	0	2500	7420	O	40000	120
GSLV Mk I	PSLV	VSSC/SHAR	b	Zenit-3F	0	3	49.0	2.80	401.0	0	2500	7420	O	40000	120
GSLV Mk I	PSLV	VSSC/SHAR	c	Zenit-3F	0	3	49.0	2.80	401.0	0	2500	7420	O	40000	120
GSLV Mk II	PSLV	VSSC/SHAR	-	Zenit-3F	0	3	49.0	2.80	401.0	0	2500	7420	O	40000	120
GSLV Mk II	PSLV	VSSC/SHAR	b	Zenit-3F	0	3	49.1	2.80	415.6	0	2500	7420	O	40000	120
GSLV Mk II	PSLV	VSSC/SHAR	c	Zenit-3F	0	3	50.1	2.80	415.6	0	2500	7420	O	40000	120
R-9A	R-9	OKB1	-	Zenit-3F	1	2	24.0 ?	2.68	100.0	0	0	1385	M	1000	16000
Jupiter IRBM	Jupiter	CHRY/ABMA	-	Zenit-3F	1	1	18.4	2.67	54.4	0	0	667	M	500	3000
Juno II	Jupiter	CHRY/ABMA	-	Zenit-3F	1	4	23.4	2.67	55.3	50	0	667	O	100000	3000
Juno II	Jupiter	CHRY/ABMA	(3)	Zenit-3F	1	3	23.4	2.67	55.3	50	0	667	O	1000	3000
Lijian-1	ZK-1	CASIOM	-	Zenit-3F	1	4	50.0	2.65	135.0	-	-	-	O	-	3000
Jielong-3	ZK-1	CZHJ	-	Zenit-3F	1	4	31.0	2.65	140.0	1500	0	-	O	200	200
Yinli-1	ZK-1	DFK	-	Zenit-3F	0	3	29.0	2.65	400.0 ?	6500	0	-	O	200	200
Al Abid	Abid	IQ	-	Zenit-3F	1	3	25.0	2.64 ?	48.0	0	0	650	X	100	2000
KSLV-II TLV	KSLV2-2	KARI	-	Zenit-3F	1	2	25.8	2.60	52.1	0	0	747	M	200	2000
A-350	A-350	SKB30	-	Zenit-3F	1	2	20.0 ?	2.57	33.0 ?	0	0	-	M	300	300
A-350Zh	A-350	SKB30	-	Zenit-3F	1	2	17.9	2.57	32.0	0	0	-	M	350	350
A-925	A-350	FAKEL	-	Zenit-3F	1	2	19.8	2.57	33.0	0	0	-	M	350	350
Nudol'	A-350	ALMAN	-	Zenit-3F	1	2	19.0 ?	2.60 ?	33.0 ?	0	0	-	M	350	350
Hwasong-17	Hwasong-15	KPA	-	Zenit-3F	1	2	25.0 ?	2.60 ?	100.0 ?	0	0	3200	M	3000	350
Epsilon	H2.SRB	JAXA	-	Zenit-3F	1	4	24.4	2.50	91.0	0	450	2250	O	500	350
Epsilon	H2.SRB	JAXA	2	Zenit-3F	1	3	26.0	2.50	95.4	0	500	2250	O	500	350
Epsilon	H2.SRB	JAXA	2PBS	Zenit-3F	1	4	26.0	2.50	95.7	0	500	2250	O	500	350
UR-100N	UR-100N	KHRU	-	Zenit-3F	1	2	18.9 ?	2.50	50.0	0	0	-	M	1000	12000
UR-100NU 15A35	UR-100N	KHRU	-	Zenit-3F	1	3	24.3	2.50	105.6	0	0	1870	M	1000	10000
UR-100NU 15A35P	UR-100N	KHRU	-	Zenit-3F	1	3	24.3	2.50	105.6	0	0	1870	M	1000	10000
UR-100NU 15A35S	UR-100N	KHRU	-	Zenit-3F	1	3	24.3	2.50	105.6	0	0	1870	M	1000	10000
Strela	UR-100N	NPOMA	-	Zenit-3F	1	3	29.2	2.50	105.0	1400	0	-	O	500	10000
Rokot	UR-100N	KHRU	K	Zenit-3F	1	3	29.0	2.50	107.0	1850	0	1870	O	1500	10000
Rokot	UR-100N	KHRU	-	Zenit-3F	1	3	29.0	2.50	107.0	1850	0	1870	O	1500	10000
M-V	MV	NISST	-	Zenit-3F	1	3	30.7	2.50	139.0	1800	0	3786	O	1000	10000
M-V	MV	NISST	1	Zenit-3F	1	3	30.7	2.50	139.0	1800	0	3786	O	1000	10000
Thor DM-18	Thor	DACM	-	Zenit-3F	1	1	19.8	2.44	48.5 ?	0	0	710	M	520	10000
Thor DM-18A	Thor	DACM	-	Zenit-3F	1	1	19.4	2.44	48.9	0	0	668	M	520	10000
Thor DM-18C	Thor	DACM	-	Zenit-3F	1	1	22.0	2.44	48.5	0	0	734	M	500	10000
Thor Able	Thor	DACM	-	Zenit-3F	1	2	24.8	2.44	48.3	0	0	668	M	1600	10000
Thor Able I	Thor	DACM	-	Zenit-3F	1	3	26.9	2.44	52.0	50	0	710	O	100000	10000
Thor Able II	Thor	DACM	-	Zenit-3F	1	2	27.3	2.44	52.0 ?	-	0	668	M	1600	10000
Thor Able II	Thor	DACM	M1	Zenit-3F	1	3	27.8	2.44	52.0 ?	50	0	668	O	1600	10000
Thor Able III	Thor	DACM	-	Zenit-3F	1	3	27.4	2.44	52.0 ?	100	0	668	O	100000	10000
Thor Able IV	Thor	DACM	-	Zenit-3F	1	3	27.2	2.44	52.0 ?	100	0	668	O	400000	10000
Thor Ablestar	Thor	DACM	-	Zenit-3F	1	2	23.5	2.44	53.0	150	0	668	O	1500	10000
Thor Ablestar	Thor	DACM	2	Zenit-3F	1	2	23.8	2.44	53.0	150	0	756	O	1500	10000
Thor Agena A	Thor	DACM	-	Zenit-3F	1	2	24.0	2.44	53.1	250	0	670	O	1000	10000
Thor Agena B	Thor	DACM	-	Zenit-3F	1	2	23.4 ?	2.44	56.5	-	0	670	O	1000	10000
Thor Agena D	Thor	DACM	-	Zenit-3F	1	2	23.4	2.44	56.5	-	0	743	O	5500	10000
Thor SLV-2 Agena B	Thor	DACM	-	Zenit-3F	1	2	27.2	2.44	56.5 ?	-	0	756	O	1000	10000
Thor SLV-2 Agena D	Thor	DACM	-	Zenit-3F	1	2	27.2	2.44	56.5 ?	-	0	756	O	1000	10000
Thor SLV-2A Agena B	Thor	DACM	-	Zenit-3F	0	2	27.2	2.44	67.8	-	0	1475	O	2000	10000
Thor SLV-2A Agena D	Thor	DACM	-	Zenit-3F	0	2	27.2	2.44	67.8	-	0	1475	O	1000	10000
Thor SLV-2A Agena D	Thor	DACM	2	Zenit-3F	0	2	27.2	2.44	67.8	-	0	1475	O	1000	10000
Thorad SLV-2G Agena D	Thor	DACM	-	Zenit-3F	0	2	32.9	2.44	91.4 ?	1500	0	1444	O	1000	10000
Thorad SLV-2H Agena D	Thor	DACM	-	Zenit-3F	0	2	32.9	2.44	91.4 ?	1500	0	1444	O	1000	10000
Thor Delta	Thor	DACM	-	Zenit-3F	1	3	27.5	2.44	50.7	226	0	734	O	100000	10000
Thor Delta A	Thor	DACM	-	Zenit-3F	1	3	27.5	2.44	51.0	250	0	756	O	100000	10000
Thor Delta B	Thor	DACM	-	Zenit-3F	1	3	27.5	2.44	51.8	370	0	756	O	40000	10000
Thor Delta C	Thor	DACM	-	Zenit-3F	1	3	27.5	2.44	52.0 ?	400	81	756	O	100000	10000
Thor Delta C1	Thor	DACM	-	Zenit-3F	1	3	27.5	2.44	52.0 ?	400	81	756	O	1000	10000
Thor Delta D	Thor	DACM	-	Zenit-3F	0	3	27.5	2.44	64.7	450	104	756	O	40000	10000
Thor Delta E	Thor	DACM	-	Zenit-3F	0	3	28.0	2.44	68.0	540	150	1450	O	400000	10000
Thor Delta E1	Thor	DACM	-	Zenit-3F	0	3	28.0	2.44	68.0	540	150	1450	O	400000	10000
Thor Delta G	Thor	DACM	-	Zenit-3F	0	2	28.0 ?	2.44	65.0 ?	-	0	1590	O	400	10000
Thor Delta J	Thor	DACM	-	Zenit-3F	0	3	28.0 ?	2.44	65.0 ?	-	260	1590	O	6000	10000
Thor Delta L	Thor	DACM	-	Zenit-3F	0	3	34.0	2.44	89.9	-	300	1590	O	400000	10000
Thor Delta M	Thor	DACM	-	Zenit-3F	0	3	32.4	2.44	91.0 ?	-	355	1590	O	40000	10000
Thor Delta M6	Thor	DACM	-	Zenit-3F	0	3	32.4	2.44	103.7	-	450	2411	O	400000	10000
Thor Delta N	Thor	DACM	-	Zenit-3F	0	2	33.0	2.44	90.0 ?	-	-	1590	O	1500	10000

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Thor Delta N6	Thor	DACM	-	Zenit-3F	0	2	33.0 ?	2.44	102.9	-	-	2411	O	1500	10000
Thor DSV-2D	Thor	DACM	-	Zenit-3F	1	1	21.7	2.44	50.0 ?	0	0	743	X	1500	10000
Thor DSV-2E	Thor	DACM	-	Zenit-3F	1	1	19.4	2.44	49.3	0	0	668	M	500	10000
Thor DSV-2F	Thor	DACM	-	Zenit-3F	1	1	20.8	2.44	50.0 ?	0	0	668	V	50	10000
Thor DSV-2G	Thor	DACM	-	Zenit-3F	1	2	26.9	2.44	55.0 ?	0	0	668	V	75	10000
Thor DSV-2J	Thor	DACM	-	Zenit-3F	1	1	19.4	2.44	55.0 ?	0	0	668	M	1500	10000
Thor DSV-2U	Thor	DACM	-	Zenit-3F	1	2	23.0 ?	2.44	49.5 ?	500	0	750	O	1000	10000
Thor MG-18	Thor	DACM	-	Zenit-3F	1	2	23.0	2.44	50.0 ?	200	0	668	O	1000	10000
Thor Burner 1	Thor	DACM	-	Zenit-3F	1	2	23.0	2.44	50.0 ?	200	0	668	O	1000	10000
Thor Burner 2	Thor	DACM	-	Zenit-3F	1	2	22.4	2.44	50.0 ?	500	0	750	O	1000	10000
Thor Burner 2A	Thor	MDAC	-	Zenit-3F	1	3	23.0 ?	2.44	50.0 ?	500	0	750	O	1000	10000
Delta 0300	Thor	MDAC	-	Zenit-3F	0	2	34.0	2.44	90.1 ?	1000	0	1590	O	1500	10000
Delta 0900	Thor	MDAC	-	Zenit-3F	0	2	34.0	2.44	116.5	1300	0	2500	O	1500	10000
Delta 1410	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	110.0 ?	1000	0	1863	O	900	10000
Delta 1604	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	118.0 ?	-	600	2410	O	200000	10000
Delta 1900	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	130.0 ?	-	0	2410	O	4000	10000
Delta 1910	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	130.0 ?	-	0	2410	O	550	10000
Delta 1913	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	130.0 ?	-	-	2410	O	400000	10000
Delta 1914	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	130.3	-	-	2410	O	40000	10000
Delta 2310	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	131.0 ?	-	0	1737	O	1500	10000
Delta 2910	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	131.0 ?	-	0	2560	O	3000	10000
Delta 2313	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	131.0 ?	1540	500	1737	O	40000	10000
Delta 2913	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	131.8	2000	700	2560	O	100000	10000
Delta 2914	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	130.4	2000	724	2560	O	400000	10000
Delta 2914	Thor	MDAC	C	Zenit-3F	0	3	35.0	2.44	130.4	2000	724	2560	O	40000	10000
Delta 3910	Thor	MDAC	-	Zenit-3F	0	2	35.0	2.44	190.0 ?	-	0	3188	O	1000	10000
Delta 3910/PAM	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	191.6	0	1087	3188	O	40000	10000
Delta 3913	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	190.0 ?	-	-	3188	O	25000	10000
Delta 3914	Thor	MDAC	-	Zenit-3F	0	3	35.0	2.44	190.3	2700	951	3188	O	200000	10000
Delta 3920-8	Thor	MDAC	-	Zenit-3F	0	2	36.0	2.44	190.0 ?	-	0	3188	O	500	10000
Delta 3920	Thor	MDAC	-	Zenit-3F	0	2	36.0	2.44	191.0 ?	-	0	3188	O	700	10000
Delta 3920/PAM	Thor	MDAC	-	Zenit-3F	0	3	36.0	2.44	191.6	0	1280	3188	O	40000	10000
Delta 3924	Thor	MDAC	-	Zenit-3F	0	3	36.0	2.44	191.0 ?	-	-	3188	O	120000	10000
Delta 4925-8	Thor	MDAC	-	Zenit-3F	0	3	34.0	2.44	200.7	-	1200	3470	O	40000	10000
Delta 5920-8	Thor	MDAC	-	Zenit-3F	0	2	34.0	2.44	201.6	3850	0	3470	O	1000	10000
Delta 6920-8	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	219.0	-	0	3790	O	1000	10000
Delta 6920-10	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	219.0	-	0	3790	O	1000	10000
Delta 6925-8	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	219.0	0	1500	3790	O	40000	10000
Delta 6925	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	219.0	0	1445	3790	O	400000	10000
Delta 7320-10	Thor	MDAC	-	Zenit-3F	0	2	38.9	2.44	151.7	-	0	2500	O	1000	10000
Delta 7320-10C	Thor	MDAC	-	Zenit-3F	0	2	38.9	2.44	151.7	-	0	2500	O	1000	10000
Delta 7326-9.5	Thor	MDAC	-	Zenit-3F	0	3	38.4	2.44	155.0 ?	-	-	2500	O	400000	10000
Delta 7420-10C	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	165.0 ?	-	0	3020	O	1500	10000
Delta 7425-9.5	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	170.0 ?	-	-	3020	O	400000	10000
Delta 7425-10	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	170.0 ?	-	-	3020	O	400000	10000
Delta 7426-9.5	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	170.0 ?	-	-	3020	O	400000	10000
Delta 7920-8	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	220.0 ?	5118	0	4000	O	400000	10000
Delta 7920-10	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	220.0 ?	5118	0	4000	O	1000	10000
Delta 7920-10C	Thor	MDAC	-	Zenit-3F	0	2	39.0 ?	2.44	232.0 ?	-	0	4000	O	1000	10000
Delta 7920-10L	Thor	MDAC	-	Zenit-3F	0	2	40.0 ?	2.44	232.0 ?	-	0	4000	O	1000	10000
Delta 7925	Thor	MDAC	-	Zenit-3F	0	3	39.7	2.44	219.9	-	1816	4000	O	400000	10000
Delta 7925H	Thor	MDAC	-	Zenit-3F	0	3	39.7	2.44	283.0 ?	-	1816	5030	O	0	10000
Delta 7920H	Thor	MDAC	-	Zenit-3F	0	2	39.7	2.44	283.0	-	1816	5030	O	0	10000
Delta 7925-8	Thor	MDAC	-	Zenit-3F	0	3	38.2	2.44	220.0 ?	-	-	4000	O	400000	10000
Delta 7925-9.5	Thor	MDAC	-	Zenit-3F	0	3	39.0 ?	2.44	231.0 ?	-	-	4000	O	400000	10000
Delta 7925-10	Thor	MDAC	-	Zenit-3F	0	3	38.9	2.44	231.9	-	-	4000	O	400000	10000
Delta 7925-10C	Thor	MDAC	-	Zenit-3F	0	3	38.9	2.44	231.9	-	-	4000	O	400000	10000
Delta 7925-10L	Thor	MDAC	-	Zenit-3F	0	3	38.9	2.44	231.9	-	-	4000	O	400000	10000
Delta 8930	Thor	BOHB	-	Zenit-3F	0	2	39.1	2.44	301.5	8280	3800	4891	O	40000	10000
N-1	Thor	MHITO	-	Zenit-3F	0	3	33.0	2.44	90.0	1200	360	2290	O	40000	10000
N-2	Thor	MHITO	-	Zenit-3F	0	3	35.0	2.44	135.0	2000	730	2290	O	40000	10000
N-2	Thor	MHITO	(2)	Zenit-3F	0	2	35.0	2.44	133.0 ?	-	-	2290	O	1000	10000
H-1	Thor	MHITO	-	Zenit-3F	0	3	42.0	2.44	142.0	3200	1100	2130	O	40000	10000
H-1	Thor	MHITO	(2)	Zenit-3F	0	2	42.0	2.44	142.0	-	-	2130	O	1500	10000
H-1	Thor	MHITO	6R	Zenit-3F	0	3	42.0	2.44	145.0 ?	-	-	1350	O	40000	10000
R-39	R-39	MAK	-	Zenit-3F	1	3	16.0	2.40	84.0	0	0	2060	M	1000	830
R-39U	R-39	MAK	-	Zenit-3F	1	3	16.0	2.40	84.0	0	0	2060	M	1000	830
R-39UTTKh	R-39	MAK	-	Zenit-3F	1	3	16.0	2.40	34.0	0	0	2060	M	1000	830
Grom	R-39	MAK	-	Zenit-3F	1	3	16.0	2.40	84.0	0	0	2060	M	1000	830
RT-23 15Zh44	R-39	YUZH	-	Zenit-3F	1	3	22.4	2.40	104.5	0	0	2060	M	1000	1000
RT-23 15Zh52	R-39	YUZH	-	Zenit-3F	1	3	22.4	2.40	104.5	0	0	2060	M	1000	1000
RT-23U 15Zh61	R-39	YUZH	-	Zenit-3F	1	3	22.6	2.40	104.5	0	0	2060	M	1000	1000
RT-23U 15Zh60	R-39	YUZH	-	Zenit-3F	1	3	22.6	2.40	104.5	0	0	2060	M	1000	1000

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Hwasong-18	Hwasong-18	KPA	-	Zenit-3F	1	3	27.0	2.40	40.0 ?	0	0	-	M	3000	1000
Hwasong-19	Hwasong-18	KPA	-	Zenit-3F	1	3	27.0	2.40	40.0 ?	0	0	-	M	3000	1000
Hwasong-16	Hwasong-18	KPA	-	Zenit-3F	1	2	15.0 ?	2.40	18.0 ?	0	0	-	M	500	1000
Hwasong-16Na	Hwasong-18	KPA	-	Zenit-3F	1	2	13.0 ?	2.40	18.0 ?	0	0	-	M	500	1000
Cheonlima-1	Hwasong-15	NADA	-	Zenit-3F	1	3	25.0	2.40 ?	100.0 ?	50	0	1000	O	2000	1000
NK Kerolox LV	Hwasong-15	NADA	-	Zenit-3F	1	3	25.0	2.40 ?	100.0 ?	50	0	1000	O	2000	1000
Hwasong-15	Hwasong-15	KPA	-	Zenit-3F	1	2	22.0 ?	2.40 ?	85.0 ?	0	0	-	M	3000	1000
Unha-1	Unha	KPA	-	Zenit-3F	1	2	29.0	2.40	85.0 ?	0	0	1000	M	1000	4000
Unha-2	Unha	KPA	-	Zenit-3F	1	3	30.0	2.40	85.0 ?	50	0	1000	O	2000	4000
Unha-3	Unha	KPA	-	Zenit-3F	1	3	30.0	2.40	85.0 ?	50	0	1000	O	2000	4000
Kwangmyongsong	Unha	KPA	-	Unha-3	1	3	30.0	2.40	85.0 ?	50	0	1000	O	2000	4000
Simorgh	Unha	IR	-	Unha-3	1	2	27.0	2.40 ?	85.0 ?	50	0	1000	O	2000	4000
Simorgh	Unha	IR	3	Unha-3	1	3	27.0	2.40 ?	85.0 ?	50	0	1000	O	2000	4000
R-14	R-14	OKB586	-	Unha-3	1	1	24.4	2.40	86.3	0	0	1480	M	676	400
R-14U	R-14	OKB586	-	Unha-3	1	1	24.4	2.40	86.4	0	0	1480	M	676	400
Kosmos 65S3	R-14	OKB586	-	Unha-3	1	2	32.4	2.40	109.0 ?	1500	0	1480	O	1500	400
Kosmos 11K65	R-14	OKB586	-	Unha-3	1	2	32.4	2.40	109.0 ?	1500	0	1485	O	1500	400
Kosmos 11K65M	R-14	POL	-	Unha-3	1	2	32.4	2.40	109.0	1500	0	1485	O	2000	400
Vertikal' K65UP	R-14	POL	-	Unha-3	1	1	27.6	2.40	90.0 ?	0	0	1485	X	1500	400
K65M-R	R-14	POL	-	Unha-3	1	2	32.4	2.40	109.0 ?	0	0	1485	M	500	400
K65M-RB	R-14	POL	-	Unha-3	1	2	32.4	2.40	109.0 ?	1500	0	1485	O	250	400
Burya	Burya	OKB23	-	Unha-3	1	2	22.0 ?	2.40	120.0 ?	0	0	1530	C	50	400
ICBM-T3	MX	OSCC	-	Unha-3	1	3	17.6	2.35	50.0 ?	0	0	-	M	1000	400
ARPA Taurus	MX	OSCC	-	Unha-3	1	4	27.2	2.35	73.0	1320	0	1711	O	1000	400
Taurus 2110	MX	OSCC	-	Unha-3	1	4	27.9	2.35	73.0	1380	0	1711	O	1000	400
Taurus 2210	MX	OSCC	-	Unha-3	1	4	29.7	2.35	73.0	1380	0	1711	O	1000	400
Taurus 3210	MX	OSCC	-	Unha-3	1	4	31.6	2.35	73.0	1380	0	1711	O	1000	400
Taurus 3110	MX	OSCC	-	Unha-3	1	4	31.6	2.35	73.0	1380	0	1711	O	1000	400
Taurus 1110	MX	OSCC	-	ARPA Taurus	1	4	27.9	2.35	73.0	1320	0	1711	O	1000	400
Minotaur-C 3210	MX	OSCC	-	Taurus 3210	1	4	31.6	2.35	73.0	1380	0	1711	O	1000	400
Peacekeeper	MX	MMD	-	Taurus 3210	1	4	21.6	2.30	88.5	0	0	1711	M	1000	400
LLV-1	MX	LMSC	-	Athena-1	1	3	18.9	2.30	66.3	820	0	1450	O	1000	400
LMLV-1	MX	LMSC	-	Athena-1	1	3	18.9	2.30	66.3	820	0	1450	O	1000	400
Athena-1	MX	LMSC	-	Athena-1	1	3	18.9	2.30	66.3	820	0	1450	O	1000	400
Athena-2	MX	LMSC	-	Athena-1	1	4	28.2	2.30	120.7	2065	0	1450	O	400000	400
Minotaur V	MX	OSCC	-	Athena-1	1	5	23.9	2.35	36.2	1735	0	1600	O	500	500
Minotaur IV	MX	OSCC	-	Athena-1	1	4	23.9	2.35	36.2	1735	0	1600	O	500	500
Minotaur IV	MX	OSCC	H	Athena-1	1	5	23.9	2.35	36.2	1735	0	1600	O	500	500
Minotaur IV	MX	OSCC	2	Athena-1	1	5	23.9	2.35	36.2	1735	0	1600	O	500	500
Minotaur IV+	MX	OSCC	-	Athena-1	1	4	23.9	2.35	36.2	1735	0	1600	O	500	500
Minotaur IV Lite	MX	OSCC	-	Athena-1	1	3	23.0 ?	2.35	36.2	1735	0	1600	M	500	500
MSBS M51	M51	EADSA	-	Athena-1	1	3	12.0	2.30	56.0	0	0	-	M	1000	10000
Terran 1	Terran1	RELSP	-	Athena-1	1	2	35.2	2.30	77.1 ?	1500	0	920	M	1000	10000
MR-UR-100	MR-UR-100	YUZH	-	Athena-1	1	3	20.9 ?	2.25	71.0 ?	0	0	1236	M	1000	10000
MR-UR-100U 15A16	MR-UR-100	YUZH	-	Athena-1	1	3	21.6	2.25	71.1	0	0	1236	M	1000	10000
Perimetr 15A11	MR-UR-100	YUZH	-	Athena-1	1	2	21.6 ?	2.25	71.0 ?	0	0	1236	M	1000	10000
DF-3	DF3	CALT	-	Athena-1	1	1	24.0	2.25	64.0	0	0	1224	M	500	2650
DF-3A	DF3	CALT	-	Athena-1	1	1	24.0	2.25	64.0	0	0	1224	M	500	2650
DF-4	DF3	CALT	-	Athena-1	1	2	28.0	2.25	82.0	0	0	1224	M	500	4750
Chang Zheng 1	DF3	CALT	-	Athena-1	1	3	29.5	2.25	81.5	250	0	1224	O	2500	4750
Chang Zheng 1D	DF3	CALT	-	Athena-1	1	3	29.5	2.25	81.5	250	0	1224	O	2500	4750
Kuaizhou-11	DF-31	ARMT	-	Athena-1	1	3	11.0 ?	2.20	78.0	0	0	-	M	1000	8000
DF-41	DF-31	ARMT	-	Athena-1	1	3	11.0 ?	2.20	40.0 ?	0	0	-	M	1000	8000
DF-31	DF-31	ARMT	-	Athena-1	1	3	11.0 ?	2.20	20.0 ?	0	0	-	M	1000	8000
JL-2	DF-31	ARMT	-	Athena-1	1	3	11.0 ?	2.20	20.0 ?	0	0	-	M	1000	8000
JL-3	DF-31	ARMT	-	Athena-1	1	3	11.0 ?	2.20	20.0 ?	0	0	-	M	1000	8000
Chang Zheng 11	DF-31	CALT/SLREC	-	Athena-1	1	4	20.0	2.20	58.0	500	0	1177	O	200	200
Chang Zheng 11	DF-31	CALT/SLREC	H	Athena-1	1	4	20.0	2.20	58.0	500	0	1177	O	200	200
KT-2	DF-31	CASIC4A	-	Athena-1	1	3	20.0 ?	2.20	30.0	250	0	-	O	1000	8000
ADD TV1	ADD-SLV	ADD	d	Athena-1	1	3	16.2 ?	2.20 ?	20.0 ?	0	0	-	A	200	8000
ADD TV1	ADD-SLV	ADD	-	Athena-1	1	3	16.2 ?	2.20 ?	20.0 ?	0	0	-	A	200	8000
ADD TV2	ADD-SLV	ADD	-	Athena-1	1	3	20.6 ?	2.20 ?	20.0 ?	0	0	-	O	500	500
Hyunmoo-5	ADD-SLV	ADD	-	Athena-1	1	2	16.2 ?	2.20 ?	15.0 ?	0	0	-	O	500	500
Trident D-5	Trident	LMSC	-	Athena-1	1	3	13.6	2.11	58.5	0	0	-	M	1000	11000
ISRO TV	ISRO-L40	VSSC	-	Athena-1	1	1	19.7	2.10	46.0	0	0	680	T	20	11000
Little Joe 1	LJ1	NAA	4P	Athena-1	0	1	15.2	2.03	12.7	0	0	650	T	60	11000
Little Joe 1	LJ1	NAA	2P	Athena-1	0	1	15.2	2.03	12.7	0	0	650	T	60	11000
Little Joe 1	LJ1	NAA	2C	Athena-1	0	1	15.2	2.03	12.7	0	0	650	T	60	11000
Little Joe 1	LJ1	NAA	4C	Athena-1	0	1	15.2	2.03	12.7	0	0	1044	X	90	11000
Cora	Coralie	LRBA/NORD	-	Athena-1	1	2	11.0	2.01	16.0	0	0	268	T	55	11000
Spectrum	Spectrum	ISAR	-	Athena-1	1	2	28.0	2.00	100.0 ?	1000	0	675	O	500	11000
PRS-1 5Ya26	PRS-1	NOVTR	-	Athena-1	1	1	10.0	2.00 ?	12.0	0	0	-	B	40	80
PRS-1	PRS-1	NOVTR	-	Athena-1	1	1	10.0	2.00 ?	12.0	0	0	-	B	40	80

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
PRS-1M	PRS-1	NOVTR	-	Athena-1	1	1	10.0	2.00 ?	12.0	0	0	-	B	40	80
Black Arrow	BlackArrow	RAE	-	Athena-1	1	3	12.9	2.00	18.1	75	0	222	O	1600	80
Black Arrow	BlackArrow	RAE	BA0	Athena-1	1	3	12.9	2.00	18.1	0	0	222	X	550	80
Eris Block 1	Eris	GILM	-	Athena-1	1	3	25.0	2.00	35.0	300	0	440	O	500	500
Agni 5	Agni3	DRDO	-	Athena-1	1	3	17.2	2.00	50.0	0	0	-	M	100	5000
Agni 3	Agni3	DRDO	-	Athena-1	1	2	16.0	2.00	48.0	0	0	-	M	100	2000
SSLV	SSLV	ISRO	-	Athena-1	1	4	34.0	2.00	120.0	500	0	2600	O	500	2000
UR-100	UR-100	KHRU	-	Athena-1	1	2	16.9	2.00	42.3	0	0	2070	M	1000	10600
UR-100M	UR-100	KHRU	-	Athena-1	1	2	16.7	2.00	42.3 ?	0	0	2070	M	1000	10600
UR-100K	UR-100	KHRU	-	Athena-1	1	2	18.9	2.00	50.0	0	0	2070	M	1000	12000
UR-100U	UR-100	KHRU	-	Athena-1	1	2	18.9	2.00	50.0	0	0	2070	M	1000	12000
MSBS M45	MSBS	AELM	-	Athena-1	1	3	11.0 ?	1.93	35.0 ?	0	0	900	M	800	12000
MSBS M4	MSBS	AELM	-	Athena-1	1	3	11.0	1.93	35.0	0	0	900	M	800	12000
Vysota	R-29	MAK	-	Athena-1	1	2	13.0	1.90	33.3	0	0	682	M	1000	9100
Volna	R-29	MAK	-	Athena-1	1	2	14.1	1.90	35.3	0	0	682	M	1000	6500
Shtil'	R-29	MAK	-	Athena-1	1	3	14.8	1.90	40.3	0	0	682	M	1000	8300
Shtil'-1	R-29	MAK	-	Athena-1	1	3	14.8	1.90	40.0	430	0	810	O	1000	8300
Sineva	R-29	MAK	-	Athena-1	1	3	14.8 ?	1.90 ?	40.3 ?	0	0	682	M	1000	8300
Layner	R-29	MAK	-	Athena-1	1	3	14.8 ?	1.90 ?	40.3 ?	0	0	682	M	1000	8300
Poseidon C3	Poseidon	LMSC	-	Athena-1	1	2	10.4	1.88	29.4	0	0	-	M	500	4600
Trident C-4	Trident	LMSC	-	Athena-1	1	3	10.4	1.88	33.1	0	0	-	M	1000	7300
ICBM-T1	Trident	OATK	-	Athena-1	1	3	17.6	1.68	33.1	0	0	935	M	1300	7300
ICBM-T2	Trident	OATK	-	Athena-1	1	3	17.6	1.68	33.1	0	0	935	M	1300	7300
LV-2	Trident	LMSC	-	Athena-1	1	2	10.4 ?	1.88 ?	30.0 ?	-	-	-	M	0	7300
LV-3	Trident	LMSC	-	Athena-1	1	3	15.0 ?	1.88 ?	40.0 ?	-	-	-	M	0	7300
MRBM-T3c2	Trident	LMSC	-	Athena-1	1	2	15.0 ?	1.88 ?	40.0 ?	-	-	-	M	0	7300
RT-1	RT-2	OKB1	-	Athena-1	1	3	18.0	1.84	34.0	0	0	890	M	500	2000
RT-2	RT-2	OKB1	-	Athena-1	1	3	21.3	1.84	46.0	0	0	890	M	1000	9500
RT-2P	RT-2	ARSL	-	Athena-1	1	3	21.3	1.84	51.0	0	0	980	M	1000	1000
RT-2M	RT-2	MITT	-	Athena-1	1	3	21.3	1.84	51.0	0	0	980	M	1000	1000
LauncherOne	LauncherOne	VORB	-	Athena-1	0	2	20.0	1.83	24.4	500	0	308	O	200	20
RS1	RS1	ABLSS	-	Athena-1	1	2	27.0	1.83	50.0 ?	1300	0	503	O	200	200
Firefly Alpha	Alpha	FFLY	-	Athena-1	1	2	29.8	1.82	54.1	1000	0	736	O	500	200
Topol'	Topol	MITT/VOTK	-	Athena-1	1	3	21.5	1.80	45.0	0	0	890	M	1000	1050
Topol'-E	Topol	MITT/VOTK	-	Athena-1	1	3	21.5	1.80	45.0	0	0	890	M	1000	1050
Topol'-M	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Topol'-M 15Zh55	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Perimetr-RTs	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Skorost'	Topol	MITT/VOTK	-	Athena-1	1	2	18.0 ?	1.80	45.0 ?	0	0	890	M	1000	1050
Rubezh	Topol	MITT/VOTK	-	Athena-1	1	2	20.5	1.80	47.1	0	0	890	M	1000	1050
Oreshnik	Topol	MITT/VOTK	-	Athena-1	1	2	20.5	1.80	47.1	0	0	890	M	1000	1050
Yars	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Yars-E	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Yars-M	Topol	MITT/VOTK	15Zh80	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Yars-M	Topol	MITT/VOTK	15Zh81	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Yars 15Zh65M	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Bulava	Topol	MITT/VOTK	-	Athena-1	1	3	20.5	1.80	47.1	0	0	890	M	1000	1050
Start	Topol	MITT	-	Athena-1	1	6	28.9	1.80	60.0	650	0	890	O	1000	1050
Start-1	Topol	MITT	-	Athena-1	1	5	22.7	1.80	47.0	500	0	890	O	1000	1050
Start-1.2	Topol	MITT	-	Athena-1	1	5	22.7	1.80	47.0	500	0	890	O	1000	1050
RT-20P	RT-20P	YUZH	-	Athena-1	1	2	17.5	1.80	30.0	0	0	600	M	1000	8000
J-1	H2.SRB	NISST	-	Athena-1	1	2	33.1	1.80	88.5	0	0	1550	X	110	8000
Pioner	Temp-2S	MITT/VOTK	-	Athena-1	1	2	16.5	1.79	37.0	0	0	-	M	500	5000
Pioner UTTKh	Temp-2S	MITT/VOTK	-	Athena-1	1	2	16.5	1.79	37.0	0	0	-	M	500	5000
Pioner-3	Temp-2S	MITT/VOTK	-	Athena-1	1	2	16.5	1.79	37.0	0	0	-	M	500	5000
Temp-2S	Temp-2S	MITT/VOTK	-	Athena-1	1	3	18.5	1.79	41.5	0	0	-	M	1000	1050
Jupiter A	Redstone	CHRY/ABMA	-	Athena-1	1	1	20.0	1.78	28.4	0	0	357	M	95	1050
Redstone	Redstone	CHRY/ABMA	-	Athena-1	1	1	20.0	1.78	28.4	0	0	357	M	95	1050
Redstone MRLV	Redstone	CHRY/ABMA	-	Athena-1	1	1	20.0	1.78	28.4	0	0	357	M	200	1050
SPARTA	Redstone	CHRY/TRW	-	Athena-1	1	3	21.8	1.78	30.0 ?	45	0	357	O	1100	1050
Jupiter C	Redstone	ABMA	-	Athena-1	1	3	21.2	1.78	28.5	11	0	357	V	1000	1050
Jupiter C	Redstone	ABMA	JunoI	Athena-1	1	4	21.2	1.78	28.5	11	0	357	O	5000	1050
Hwasong-14	Hwasong-12	KPA	-	Athena-1	1	2	17.9	1.75 ?	20.0 ?	0	0	-	M	3000	1050
Hwasong-12	Hwasong-12	KPA	-	Athena-1	1	1	14.0 ?	1.75 ?	16.0 ?	0	0	-	M	2000	1050
Hwasong-12	Hwasong-12	KPA	A	Athena-1	1	1	14.0 ?	1.75 ?	16.0 ?	0	0	-	M	2000	1050
Hwasong-12A	Hwasong-12	KPA	-	Athena-1	1	1	14.0 ?	1.75 ?	16.0 ?	0	0	-	M	2000	1050
Falcon 1	Falcon1	SPX	-	Athena-1	1	2	21.3	1.70	27.2	600	0	378	O	500	1050
Minuteman 1A	Minuteman	BOUT	T	Athena-1	1	1	16.4	1.68	30.0 ?	0	0	935	T	10	1050
Minuteman 1A	Minuteman	BOUT	-	Athena-1	1	3	16.4	1.68	31.3	0	0	935	M	1300	1050
Minuteman 1B	Minuteman	BOUT	-	Athena-1	1	3	16.8	1.68	31.7	0	0	935	M	1300	1050
Minuteman 2	Minuteman	BOUT	-	Athena-1	1	3	17.6	1.68	33.1	0	0	935	M	1300	1050
Minotaur II	Minuteman	BOUT	-	Athena-1	1	3	17.6	1.68	33.1	0	0	935	M	1300	1050
Minotaur II+	Minuteman	BOUT	-	Athena-1	1	3	17.6	1.68	33.1	0	0	935	M	1300	1050

LV

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Minuteman 3	Minuteman	BOUT	-	Athena-1	1	4	18.3	1.68	35.3	0	0	935	M	1600	1050
Minuteman 3	Minuteman	BOUT	PRP	Athena-1	1	4	18.3	1.68	35.3	0	0	935	M	1600	1050
Minuteman 1	Minuteman	BOUT	-	Athena-1	1	3	16.0 ?	1.68	30.0 ?	0	0	935	T	50	1050
HOE	Minuteman	LMMS	-	Athena-1	1	2	19.0 ?	1.68	35.0 ?	0	0	935	M	200	1050
Minotaur I	Minuteman	OSCC	-	Athena-1	1	4	19.2	1.68	36.3	340	0	892	O	1000	1050
Minotaur I Lite	Minuteman	OSCC	-	Athena-1	1	3	19.2	1.68	36.3	340	0	892	O	1000	1050
R-5	R-5	OKB1	-	Athena-1	1	1	20.7	1.65	24.4	0	0	430	M	300	1200
R-5A	R-5	OKB1	-	Athena-1	1	1	20.7	1.65	24.4	0	0	430	M	300	1200
R-5B	R-5	OKB1	-	Athena-1	1	1	20.7	1.65	24.4 ?	0	0	430	M	300	1200
R-5M	R-5	OKB1	-	Athena-1	1	1	20.3	1.65	24.4 ?	0	0	430	M	500	1200
R-5V	R-5	OKB1	-	Athena-1	1	1	21.2	1.65	24.4 ?	0	0	430	M	500	1200
R-5 VAO	R-5	OKB1	-	Athena-1	1	1	21.2	1.65	24.4 ?	0	0	430	M	500	1200
R-12	R-12	OKB586	-	Athena-1	1	1	22.5	1.65	42.0	0	0	730	M	402	1200
R-12U	R-12	OKB586	-	Athena-1	1	1	22.5	1.65	42.0	0	0	730	M	402	1200
K63	R-12	OKB586	-	Athena-1	1	1	22.5	1.65	42.0	0	0	730	M	402	1200
K63D	R-12	OKB586	-	Athena-1	1	1	22.5	1.65	42.0	0	0	730	M	402	1200
Kosmos 63S1	R-12	OKB586	-	Athena-1	1	2	31.5	1.65	48.1	500	0	730	O	2000	1200
Kosmos 11K63	R-12	OKB586	-	Athena-1	1	2	31.5	1.65	48.1	500	0	730	O	2000	1200
R-UNK	UNK	-	-	Athena-1	1	1	22.5 ?	1.65 ?	42.0 ?	0	0	-	M	402	1200
DF-1	V-2	CALT	-	Athena-1	1	1	17.6	1.65 ?	20.4	0	0	250	B	100	590
DF-2	V-2	CALT	-	Athena-1	1	1	20.6	1.65 ?	32.0	0	0	300	B	200	1050
DF-2A	V-2	CALT	-	Athena-1	1	1	20.6	1.65 ?	32.0	0	0	300	B	200	1250
A-4	V-2	WEHR	-	Athena-1	1	1	13.6	1.65	12.8	0	0	270	B	85	1250
A-4b	V-2	WEHR	-	Athena-1	1	1	13.6	1.65	12.8	0	0	312	B	85	1250
V-2	V-2	WEHR	-	Athena-1	1	1	13.6	1.65	12.8	0	0	312	R	200	1250
V-2	V-2	GEMTS	US	Athena-1	1	1	13.6	1.65	12.8	0	0	312	R	200	1250
Hermes II	V-2	GEMTS	-	Athena-1	1	1	14.0 ?	1.65	13.0 ?	0	0	312	R	200	1250
Bumper-WAC	V-2	GEMTS	-	Athena-1	1	2	17.2	1.65	12.9	0	0	267	X	250	1250
R-1	V-2	NII88	-	Athena-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-1 8A11	V-2	NII88	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
A-1	V-2	NII88	-	R-1	1	1	14.1	1.65	13.4	0	0	267	R	100	1250
R-1A	V-2	OKB1	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-1B	V-2	OKB1	-	R-1	1	1	17.5	1.65	13.4	0	0	267	B	100	1250
R-1V	V-2	OKB1	-	R-1	1	1	17.5	1.65	13.4	0	0	267	B	100	1250
R-1D	V-2	OKB1	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-1E (A-1)	V-2	OKB1	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-1E	V-2	OKB1	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-1UK	V-2	OKB1	-	R-1	1	1	14.1	1.65	13.4	0	0	267	B	100	1250
R-2	V-2	OKB1	-	R-1	1	1	17.0	1.65	20.3	0	0	363	R	150	550
R-2A	V-2	OKB1	-	R-1	1	1	17.0	1.65	20.3	0	0	363	R	212	550
R-2e	V-2	OKB1	-	R-1	1	1	17.0	1.65	20.3	0	0	363	R	200	550
R-2R	V-2	OKB1	-	R-1	1	1	17.0	1.65	20.3	0	0	363	R	200	550
R-31	R-31	ARSL	-	R-1	1	3	11.4	1.54	26.9	0	0	580	M	500	4200
CE-5 SSQ	CESSQ	CAST	-	R-1	1	1	1.5	1.50	0.5	0	0	-	O	200	4200
Zyb	R-27	MAK	-	R-1	1	1	9.7	1.50	14.2	0	0	-	M	500	3000
Zyb R-27U	R-27	MAK	-	R-1	1	1	9.7	1.50	14.2	0	0	-	M	500	3000
Zyb R-27K	R-27	MAK	-	R-1	1	1	9.7	1.50	14.2	0	0	-	M	500	3000
Hwasong-10	R-27	KPA	-	R-1	1	1	9.7	1.50	14.2	0	0	-	M	500	3000
Khorramshahr	R-27	IR	-	R-1	1	1	9.7	1.50	14.2	0	0	-	M	500	3000
Zoljanah	Zoljanah	IR	-	R-1	1	3	25.5	1.50	40.0 ?	220	0	-	M	500	3000
Bukguekseong	Bukguekseong	KPA	-	R-1	1	2	9.5 ?	1.50	18.0 ?	0	0	-	M	500	3000
Bukguekseong-2	Bukguekseong	KPA	-	R-1	1	2	9.5 ?	1.50	18.0 ?	0	0	-	M	500	3000
Bukguekseong-3	Bukguekseong	KPA	-	R-1	1	2	9.5 ?	1.50	18.0 ?	0	0	-	M	500	3000
MSBS M011	P-10	SEREB	-	R-1	1	2	10.0 ?	1.50	15.0 ?	0	0	440	T	50	3000
MSBS M012	P-10	SEREB	-	R-1	1	2	10.0 ?	1.50	15.0 ?	0	0	440	M	500	3000
MSBS M013	P-10	SEREB	-	R-1	1	2	10.0 ?	1.50	15.0 ?	0	0	440	M	500	3000
MSBS M112	P-10	SEREB	-	R-1	1	2	10.4 ?	1.50	18.0 ?	0	0	440	T	50	3000
MSBS M1	P-10	SEREB	-	R-1	1	2	10.4	1.50	18.0	0	0	440	M	500	3000
MSBS M2	P-10	SEREB	-	R-1	1	2	10.7	1.50	20.0	0	0	440	M	600	3000
MSBS M20	P-10	AELM	-	R-1	1	2	10.7	1.50	20.0	0	0	440	M	600	3000
SSBS S112	P-10	SEREB	-	R-1	1	2	12.6	1.50	25.1	0	0	440	T	50	3000
SSBS S01	P-10	SEREB	-	R-1	1	2	15.1	1.50	25.0 ?	0	0	440	M	500	3000
SSBS S02	P-16	SEREB	-	R-1	1	2	14.8	1.50	31.9	0	0	540	M	600	3000
SSBS S2	P-16	SEREB	-	R-1	1	2	14.8	1.50	31.9	0	0	540	M	600	3000
SSBS S3	P-16	AELM	-	R-1	1	2	13.8	1.50	25.8	0	0	540	M	600	3500
Spaceship One	SS1	SCAL	-	R-1	0	1	5.0 ?	1.50 ?	4.0 ?	0	0	-	R	130	3500
Spaceship Two	SS2	SCAL	-	R-1	0	1	18.3	2.30	9.7	0	0	-	R	130	3500
RT-15	RT-15	ARSL	-	R-1	1	2	11.9	1.49	16.0	0	0	412	M	500	2500
RT-15M	RT-15	ARSL	-	R-1	1	2	11.9	1.49	16.0	0	0	412	M	500	2500
Kestrel I	Kestrel1	ATSP	-	Hapith I	1	2	10.2	1.46	3.0	0	0	77	R	200	2500
Hapith I	Kestrel1	ATSP	-	Hapith I	1	2	10.2	1.46	3.0	0	0	77	R	200	2500
ETV	Mu	NISST	-	Hapith I	0	2	21.3	1.41	39.4	0	0	1932	X	150	2500
Mu-1	Mu	NISST	-	Hapith I	0	4	21.9	1.41	40.0 ?	0	0	1932	T	50	2500

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Mu-3D	Mu	NISST	-	Hapith I	0	4	23.6	1.41	40.0 ?	0	0	1932	X	160	2500
Mu-4S	Mu	NISST	-	Hapith I	0	4	23.6	1.41	43.6	180	0	1932	O	6500	2500
Mu-3C	Mu	NISST	-	Hapith I	0	3	20.2	1.41	41.6	195	0	1932	O	3500	2500
Mu-3H	Mu	NISST	-	Hapith I	0	4	23.8	1.41	44.7	300	0	2150	O	1000	2500
Mu-3S	Mu	NISST	-	Hapith I	0	3	23.8	1.41	49.3	300	0	2150	O	1000	2500
Mu-3S-II	Mu	NISST	-	Hapith I	0	3	27.8	1.41	61.7	800	0	1930	O	1400	2500
Emeraude VE121	Emeraude	SEREB	-	Hapith I	1	1	17.9	1.40	18.2	0	0	275	V	200	2500
Saphir VE231	Emeraude	SEREB	-	Hapith I	1	2	17.8	1.40	18.0	0	0	275	V	1000	2500
Diamant A	Emeraude	SEREB	-	Hapith I	1	3	18.9	1.40	18.5	40	0	275	O	2000	2500
Diamant B	Emeraude	SEREB	-	Hapith I	1	3	23.5	1.40	24.6	115	0	348	O	2000	2500
Diamant BP.4	Emeraude	SEREB	-	Hapith I	1	3	21.6	1.40	26.3	150	0	316	O	2000	2500
Polaris AX	Polaris	LMSC	-	Hapith I	1	2	7.6	1.37 ?	10.0 ?	0	0	-	M	500	2500
Polaris A1	Polaris	LMSC	-	Hapith I	1	2	8.7	1.37	13.0	0	0	-	M	500	1850
Polaris A2E	Polaris	LMSC	-	Hapith I	1	2	9.4	1.37	14.7	0	0	-	M	1000	4600
Polaris A2	Polaris	LMSC	-	Hapith I	1	2	9.4	1.37	14.7	0	0	-	M	1000	4600
Polaris A3	Polaris	LMSC	-	Hapith I	1	2	9.4	1.37	16.2	0	0	-	M	1000	4600
Polaris A3	Polaris	LMSC	A3T	Hapith I	1	2	9.4	1.37	16.2	0	0	-	M	1000	4600
STARS	Polaris	LMSC/SAND	-	Hapith I	1	3	11.5	1.37	16.7	0	0	-	M	2500	5500
Alfa	Alfa	AERIT	-	Hapith I	1	1	6.5	1.37 ?	8.0	0	0	245	M	300	1000
Squirt	Squirt	MDAC	-	Hapith I	1	2	8.2 ?	1.37 ?	3.4	0	0	3000	A	1	1000
Sprint ABM	Sprint	MDAC	-	Hapith I	1	2	8.2	1.37	3.4	0	0	3000	A	30	1000
HEDI	Sprint	MDAC	-	Hapith I	1	2	8.2 ?	1.37	3.5 ?	0	0	3000	A	15	1000
Kuryer	Kuryer	MITT/VOTK	-	Hapith I	1	3	11.2	1.36	15.0	0	0	-	M	1000	1000
LRAShM	LRAShM	DRDO	-	Hapith I	1	2	14.0	1.40	20.0	0	0	-	M	100	1000
Shuang Quxian 1	DF-21	XJRY	-	Hapith I	1	4	24.0	1.40	31.0	280	0	555	O	300	1000
Shuang Quxian 1	DF-21	XJRY	2	Hapith I	1	4	24.0	1.40	42.0	300	0	555	O	300	1000
Shuang Quxian 1	DF-21	XJRY	3	Hapith I	1	4	24.0	1.40	42.0	300	0	555	O	300	1000
Shuang Quxian 1	DF-21	XJRY	S	Hapith I	1	1	8.4	1.40	4.6	0	0	90	B	150	300
Gushenxing 1	DF-21	XIDO	-	Hapith I	1	4	19.0	1.40	30.0	350	0	590	O	500	300
Gushenxing 1	DF-21	XIDO	1	Hapith I	1	4	20.0	1.40	33.0	350	0	590	O	500	300
Gushenxing 1	DF-21	XIDO	S	Hapith I	1	4	20.0	1.40	33.0	350	0	590	O	500	300
Kairos	Kairos	SPONE	-	Hapith I	1	4	18.0	1.35	23.0	250	0	-	O	500	500
KT-1	DF-21	CASIC4A	-	Hapith I	1	4	11.0 ?	1.35	20.0 ?	50	0	-	O	1000	8000
Kuaizhou	DF-21	CASIC4A	-	Hapith I	1	4	20.0	1.35	30.0	250	0	-	O	1000	8000
Kuaizhou-1A	DF-21	CASIC4A	-	Hapith I	1	4	20.0	1.35	30.0	250	0	-	O	1000	8000
Kuaizhou-1A	DF-21	CASIC4A	E	Hapith I	1	4	20.0	1.35	30.0	250	0	-	O	1000	8000
JL-1	DF-21	CASIC4A	-	Hapith I	1	2	10.7	1.35	14.7	0	0	-	M	500	1800
DF-21	DF-21	CASIC4A	-	Hapith I	1	2	10.7	1.35	14.7	0	0	-	M	500	1800
DF-26	DF-21	CASIC4A	-	Hapith I	1	2	14.0	1.35	20.0	0	0	-	M	500	1800
DF-27	DF-21	CASIC4A	-	Hapith I	1	2	14.0	1.35	20.0	0	0	-	M	500	1800
Zhuque-1	DF-21	CASIC4A	-	Hapith I	1	3	19.0	1.35	27.0	400	0	200	O	200	200
Shaheen 2	DF-21	PKNDC	-	Hapith I	1	2	18.0	1.35 ?	25.0	0	0	-	M	300	2000
Shaheen 3	DF-21	PKNDC	-	Hapith I	1	2	18.0	1.35 ?	25.0	0	0	-	M	300	2000
Ababeel	DF-21	PKNDC	-	Hapith I	1	3	22.0 ?	1.35 ?	25.0	0	0	-	M	300	2000
Jericho II	Jericho	IAI	-	Hapith I	1	1	15.0 ?	1.35 ?	20.0 ?	0	0	610	M	300	2000
Jericho III	Jericho	IAI	-	Hapith I	1	2	15.0 ?	1.35 ?	20.0 ?	0	0	610	M	300	2000
Shavit	Jericho	IAI	-	Hapith I	1	3	17.0	1.35	26.0	200	0	610	O	1400	2000
Shavit 1	Jericho	IAI	-	Hapith I	1	3	18.0	1.35	30.0	230	0	610	O	1400	2000
Shavit 2	Jericho	IAI	-	Hapith I	1	3	18.0	1.35	30.0	230	0	610	O	1400	2000
Arrow 1	Jericho	IAI	-	Hapith I	1	1	7.5	1.35 ?	-	0	0	-	A	40	2000
RSA-3	Jericho	HOUW	-	Hapith I	1	3	17.6	1.35 ?	23.6	330	0	451	M	300	2000
RSA-3	Jericho	HOUW	d	Hapith I	1	3	17.6	1.35 ?	23.6	330	0	451	M	300	2000
Astra Rocket 3.1	Astra	ASTRV	-	Hapith I	1	2	11.6	1.32	11.0	10	0	140	O	300	300
Astra Rocket 3.2	Astra	ASTRV	-	Hapith I	1	2	11.6	1.32	11.0	10	0	140	O	300	300
Astra Rocket 3.3	Astra	ASTRV	-	Hapith I	1	2	11.8	1.32	11.0	10	0	140	O	300	300
Storm-2	SR19	OSCC	-	Hapith I	1	1	9.9	1.32	10.0	0	0	267	M	200	600
SR19	SR19	COLE	-	Hapith I	1	1	6.0 ?	1.32	8.0 ?	0	0	267	R	100	600
AltAir	SR19	SVC	-	Hapith I	1	1	6.0 ?	1.32	8.0 ?	0	0	267	R	100	600
eMRBM	SR19	LMCO	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
MRBM Target	SR19	LMCO	-	Hapith I	1	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
MRBM Target	SR19	LMCO	1	Hapith I	1	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
eMRBM-T1	SR19	OSCC	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
Janus	SR19	OSCC	-	Hapith I	0	2	11.2	1.32	10.8	0	0	267	M	300	600
MRBM-T1	SR19	LMCO	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
MRBM-T2	SR19	LMCO	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
MRBM-T3	SR19	OSCC	-	Hapith I	1	2	15.0 ?	1.32	15.0 ?	0	0	267	M	300	600
SR19/SR19	SR19	OSCC	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
LRALT	SR19	COLE	-	Hapith I	0	2	15.5	1.32	15.0 ?	0	0	267	M	300	600
E-LRALT	SR19	COLE	-	Hapith I	0	3	15.5	1.32	15.0 ?	0	0	267	M	300	600
SRALT	SR19	COLE	-	Hapith I	0	1	12.0	1.32	12.0 ?	0	0	267	M	300	600
Hera	SR19	COLE	-	Hapith I	1	2	11.2	1.32	10.8	0	0	267	M	300	600
Juno	SR19	OSCC	-	Hapith I	1	2	11.2	1.32	10.8	0	0	267	M	300	600
Minuteman 2 PLV	SR19	LMMS	-	Hapith I	1	2	10.3	1.32	15.0 ?	0	0	267	M	225	600

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
R-21	R-21	SKB385	-	Hapith I	1	1	13.0	1.30	16.6	0	0	-	M	300	1400
R-13	R-13	SKB385	-	Hapith I	1	1	11.8	1.30	13.7	0	0	-	B	150	600
K-4	K-4	DRDO	-	Hapith I	1	2	12.0	1.30	17.0	0	0	-	M	500	3500
PDV Mk II	K-4	DRDO	-	Hapith I	1	3	12.0	1.30	17.0	0	0	-	M	500	3500
V-825	V-825	FAKEL	-	Hapith I	0	1	18.5	1.30	16.6	0	0	-	B	180	3500
Qaem-100	Qaem	IRGC	-	Hapith I	1	3	15.0	1.25	40.0	0	0	-	O	500	3500
Sejjil	Sejjil	IR	-	Hapith I	1	2	17.6	1.25	23.6	0	0	255	B	150	2000
Sejjil-2	Sejjil	IR	-	Hapith I	1	2	17.9	1.25	23.6	0	0	560	B	150	2000
Ashura	Sejjil	IR	-	Sejjil	1	2	10.0 ?	1.25	20.0 ?	0	0	560	B	150	2000
Hwasong-7	Nodong	KPA	-	Sejjil	1	1	16.0 ?	1.25	16.0 ?	0	0	255	B	150	2000
Shahab 3	Nodong	IR	-	Sejjil	1	1	15.6	1.25	16.0 ?	0	0	255	B	150	2000
Salman	Nodong	IR	-	Sejjil	1	1	15.6	1.25	16.0 ?	0	0	255	B	150	2000
Emad	Nodong	IR	-	Sejjil	1	1	15.5	1.25	17.5	0	0	255	B	150	2000
Ghadr 1	Nodong	IR	-	Sejjil	1	1	15.6	1.25	16.0 ?	0	0	255	B	150	2000
Ghadr-110	Nodong	IR	-	Sejjil	1	1	15.6	1.25	16.0 ?	0	0	255	B	150	2000
Ghadr F	Nodong	IR	-	Sejjil	1	1	15.9	1.25	17.5	0	0	255	B	150	2000
Toufan	Nodong	IR	-	Sejjil	1	1	15.9	1.25	17.5	0	0	255	B	150	2000
Safir	Nodong	IR	-	Sejjil	1	2	22.0	1.25	26.0	0	0	255	B	250	2000
Qased	Nodong	IR	-	Sejjil	1	3	18.0	1.25	19.4	0	0	255	B	450	2000
Paektusan 1	Nodong	KPA	-	Sejjil	1	3	25.8 ?	1.25	33.4	50	0	570	O	2000	2000
Ghauri	Nodong	KRLP	-	Sejjil	1	1	16.0 ?	1.25	16.0 ?	0	0	255	B	150	2000
Scud D	Nodong	KPA	-	Sejjil	1	1	16.0 ?	1.25	16.0 ?	0	0	255	B	150	2000
AMROC IRR	AMROC	AMROC	-	Sejjil	1	1	17.7	1.29	12.2	0	0	315	R	100	2000
GBI	Pegasus	OSCC	-	Sejjil	1	3	15.5 ?	1.28	18.0 ?	0	0	580	R	2000	2000
GBI	Pegasus	OSCC	2	Sejjil	1	2	15.5 ?	1.28	18.0 ?	0	0	580	R	2000	2000
ALV	Pegasus	ATKE	-	Sejjil	1	2	16.8	1.28	15.0	-	-	580	R	200	2000
Pegasus	Pegasus	OSCC	-	Sejjil	0	3	15.5	1.28	18.5	350	0	580	O	4000	2000
Pegasus/HAPS	Pegasus	OSCC	-	Sejjil	0	4	15.5	1.28	18.5	250	0	580	O	4000	2000
Pegasus H	Pegasus	OSCC	-	Sejjil	0	3	15.5	1.28	18.5	350	0	580	O	4000	2000
Pegasus XL	Pegasus	OSCC	-	Sejjil	0	3	17.4	1.28	23.0	440	0	726	O	4000	2000
Pegasus XL/HAPS	Pegasus	OSCC	-	Sejjil	0	4	17.4	1.28	23.0	350	0	726	O	4000	2000
IRBM-T1	Pegasus	OSCC	-	Sejjil	1	2	15.0 ?	1.28	23.0	350	0	726	M	4000	2000
IRBM-T2	Pegasus	OSCC	-	Sejjil	1	2	15.0 ?	1.28	23.0	350	0	726	M	4000	2000
Hyper X	Pegasus	OSCC	-	Sejjil	0	1	14.9	1.28	18.8	0	0	726	T	40	2000
Al Kahir	AlKahir	EGAO	-	Sejjil	1	1	12.5	1.22	10.0 ?	0	0	-	A	60	2000
LDSD	Star48	JPL	-	Sejjil	0	1	2.0	1.22	3.0 ?	0	0	-	A	60	2000
Hyunmoo-1	Hyunmoo	ADD	-	Sejjil	1	2	11.9	1.20	4.9	0	0	775	A	45	2000
Hyunmoo-2A	Hyunmoo	ADD	-	Sejjil	1	1	7.0 ?	1.20 ?	5.0 ?	0	0	-	A	80	2000
Hyunmoo-2B	Hyunmoo	ADD	-	Sejjil	1	1	7.0 ?	1.20 ?	5.0 ?	0	0	-	A	80	2000
Hyunmoo-2C	Hyunmoo	ADD	-	Sejjil	1	1	7.0 ?	1.20 ?	5.0 ?	0	0	-	A	80	2000
Hyunmoo-4	Hyunmoo	ADD	-	Sejjil	1	1	7.0 ?	1.20 ?	5.0 ?	0	0	-	A	80	2000
Electron	Electron	RLABN	-	Sejjil	1	3	17.0	1.20	12.6	150	0	162	O	200	200
Electron	Electron	RLABN	L	Sejjil	1	3	17.0	1.20	12.6	150	0	162	O	200	200
HASTE	Electron	RLABN	-	Sejjil	1	3	17.0	1.20	12.6	150	0	162	O	200	200
Jielong-1	JL1	CZHJ	-	Sejjil	1	4	19.5	1.20	19.5	150	0	-	O	200	200
DF-16	DF-16	CASIC	-	Sejjil	1	1	12.0	1.20	18.0 ?	0	0	-	M	200	1000
DF-17	DF-16	CASIC	-	Sejjil	1	1	12.0	1.20	18.0 ?	0	0	-	M	200	1000
Hermes A-3B	HermesA3	GEMTS	-	Sejjil	1	1	10.1	1.19	5.4	0	0	100	A	37	100
SICBM	SICBM	MMD?	-	Sejjil	1	4	16.2	1.17	17.0	0	0	979	M	1000	11000
Super Strypi	LEO-46	SAND	-	Sejjil	1	3	20.6	1.17	24.0 ?	300	0	-	O	250	250
Aries	Aries	SVC	-	Sejjil	1	1	9.2	1.16	6.3	0	0	200	R	500	250
M56A1	Aries	OSCC	-	Sejjil	1	1	9.2	1.16	6.3	0	0	200	R	500	250
ERIS	Aries	LMSC	-	Sejjil	1	2	4.1	1.16	14.0 ?	0	0	200	M	300	250
Viking Type 9	Viking	NRL	-	Sejjil	1	1	12.8	1.14	6.8	0	0	93	R	250	250
Vanguard	Viking	NRL	-	Sejjil	1	3	22.1	1.14	10.0	20	0	120	O	3000	250
Vanguard	Viking	NRL	X-248	Sejjil	1	3	22.1	1.14	10.0	20	0	120	O	3000	250
Scout II TV	Zefiro	BPD	-	Sejjil	1	1	9.0 ?	1.14 ?	17.0	0	0	590	T	50	250
Scout D-1	ScoutD	LTV	-	Sejjil	1	4	25.0	1.14	21.3	183	0	464	O	10000	250
Scout D-1	ScoutD	LTV	F	Sejjil	1	4	25.0	1.14	21.3	183	0	464	O	1000	250
Scout E-1	ScoutD	LTV	-	Sejjil	1	5	25.0 ?	1.14	20.6	200	0	464	O	130000	250
Scout F-1	ScoutD	LTV	-	Sejjil	1	4	25.0	1.14	20.6	192	0	464	O	500	250
Scout G-1	ScoutD	LTV	-	Sejjil	1	4	25.0 ?	1.14	23.8	205	0	464	O	1000	250
TR-1	TR-1	NISST	-	Sejjil	1	1	14.3	1.13	11.8	0	0	608	R	80	250
TR-1A	TR-1	NISST	-	Sejjil	1	1	13.4	1.13	10.3	0	0	608	R	270	250
Prithvi	Prithvi	HAL	-	Sejjil	1	1	9.0	1.10	4.5	0	0	-	B	100	350
Prithvi 2	Prithvi	HAL	-	Sejjil	1	1	9.0	1.10	4.5	0	0	-	B	100	350
PDV Target	Prithvi	HAL	-	Sejjil	1	2	9.0	1.10	4.5	0	0	-	B	100	350
PDV	Prithvi	HAL	-	Sejjil	1	1	9.0	1.10	4.5	0	0	-	B	100	350
Dhanush	Prithvi	HAL	-	Sejjil	1	1	8.5	1.10	4.5	0	0	-	A	50	150
Spartan ABM	Spartan	MDAC/WELEC	-	Sejjil	1	3	16.8	1.09	13.2	0	0	2000	M	560	740
Nike Zeus	Spartan	DACC/WELEC	-	Sejjil	1	2	14.7	1.09	10.3	0	0	2002	M	200	400
Nike Zeus	Spartan	DACC/WELEC	3	Sejjil	1	3	14.6	1.09	10.3	0	0	2002	M	280	400
Nike Zeus DM-15S	Spartan	DACC/WELEC	-	Sejjil	1	3	14.6	1.09	10.3	0	0	2002	M	280	400

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Dolphin	Dolphin	STST	-	Sejjil	1	1	15.5	1.07	7.5	0	0	155	T	2	400
Nike Hercules 1810	Hercules	DACC/WELEC	-	Sejjil	1	2	11.9	1.06	4.9	0	0	775	A	45	400
Nike Hercules R&D	Hercules	DACC/WELEC	-	Sejjil	1	2	11.9	1.06	4.9	0	0	775	A	45	400
Nike Hercules	Hercules	DACC/WELEC	-	Sejjil	1	2	11.9	1.06	4.9	0	0	775	A	45	400
Nike J	Hercules	MHITO?	-	Sejjil	1	2	11.9	1.06	4.9	0	0	775	A	45	400
Paekkom	Hercules	ADD	-	Sejjil	1	2	11.9	1.06	4.9	0	0	775	A	45	400
Hermes A-3A	HermesA3	GEMTS	-	Sejjil	1	1	8.7	1.02	3.8	0	0	80	A	30	400
Blue Scout I	Scout	LTV	-	Sejjil	1	3	21.7	1.02	16.7	0	0	556	R	5000	400
Blue Scout II	Scout	LTV	-	Sejjil	1	4	21.7	1.02	16.9	50	0	556	O	2500	400
Scout X	Scout	LTV	-	Sejjil	1	4	21.6	1.02	16.7 ?	0	0	556	X	100	400
Scout X-1	Scout	LTV	-	Sejjil	1	4	21.6	1.02	16.7	59	0	556	O	7000	400
Scout X-1A	Scout	LTV	-	Sejjil	1	5	22.0 ?	1.02	17.0 ?	0	0	440	R	220	400
Scout X-2	Scout	LTV	1C	Sejjil	1	4	22.0 ?	1.02	17.0 ?	76	0	440	O	7000	400
Scout X-2	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.0 ?	76	0	440	O	900	400
Scout X-2B	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.0 ?	90	0	440	O	900	400
Scout X-2M	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.0 ?	90	0	440	O	900	400
Scout X-3	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.0 ?	87	0	380	O	900	400
Scout X-3M	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.0 ?	90	0	380	O	900	400
Scout X-3A	Scout	LTV	-	Sejjil	1	5	22.0 ?	1.02	17.0 ?	0	0	380	R	220	400
Scout X-3C	Scout	LTV	-	Sejjil	1	3	22.0 ?	1.02	17.0 ?	0	0	380	R	1300	400
Scout X-4	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.5	103	0	380	O	4000	400
Scout X-4A	Scout	LTV	-	Sejjil	1	5	22.0 ?	1.02	17.5 ?	0	0	380	R	180	400
Scout X-5C	Scout	LTV	-	Sejjil	1	3	22.0 ?	1.02	17.5 ?	0	0	380	R	180	400
Scout A	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.9	121	0	400	O	1000	400
Scout A-1	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.9	121	0	440	O	1000	400
Scout B	Scout	LTV	-	Sejjil	1	4	22.4	1.02	17.9	143	0	400	O	1000	400
Scout B	Scout	LTV	2A	Sejjil	1	4	22.0 ?	1.02	17.9	143	0	400	O	1000	400
Scout B-1	Scout	LTV	F	Sejjil	1	4	22.0 ?	1.02	17.9	143	0	440	O	1000	400
Scout B-1	Scout	LTV	-	Sejjil	1	4	22.0 ?	1.02	17.5 ?	143	0	440	O	1000	400
Athena H	Castor4	ATLC/CELES	-	Sejjil	0	3	18.6	1.02	14.0	0	0	422	V	200	400
Prospector	Castor4	SDCO	-	Sejjil	1	1	14.1	1.02	12.2	0	0	430	R	500	400
Strypi XIIR	Sergeant	SAND	-	Sejjil	0	2	16.0 ?	1.02	13.5 ?	0	0	430	R	500	400
Castor 4A	Castor4	OSCC	-	Sejjil	1	1	16.0 ?	1.02	13.5 ?	0	0	430	R	500	400
Maxus	Castor4	EADSB	-	Sejjil	1	1	15.5	1.02	12.3	0	0	500	R	850	400
Castor 4B	Castor4	OSCC	-	Sejjil	1	1	14.0 ?	1.02	13.0 ?	0	0	500	R	500	400
MRT	Castor4	OSCC	-	Sejjil	1	1	14.0 ?	1.02	13.0 ?	0	0	500	R	500	400
Castor-M57A1	Castor4	OSCC	-	Sejjil	1	2	16.0 ?	1.02	14.0 ?	0	0	500	R	1100	400
Conestoga 1620	Castor4	EERSSI	-	Sejjil	1	4	15.2	1.02	87.4	900	0	1580	O	450	400
GBI BV	GEM	BOHSV	-	Sejjil	1	3	15.5	1.02	14.0	0	0	500	R	200	400
GBI BV+	GEM	LMSC	-	Sejjil	1	3	15.5	1.02	14.0	0	0	500	R	200	400
Pershing 1	Pershing	MARTO	-	Sejjil	1	2	10.7	1.02	4.7	0	0	116	M	250	600
Pershing 1A	Pershing	MARTO	-	Sejjil	1	2	10.7	1.02	4.7	0	0	116	M	250	600
Pershing 2	Pershing	MARTO	-	Sejjil	1	2	10.7	1.02	7.5	0	0	-	M	250	1800
Pershing 2	Pershing	MARTO	1	Sejjil	1	2	9.0 ?	1.02	7.5	0	0	-	M	100	200
Sonda 4	S-40	INPE	-	Sejjil	1	2	11.0	1.01	7.2	0	0	203	R	800	200
VS-40	S-40	INPE	-	Sejjil	1	2	9.5	1.01	6.8	0	0	190	R	1000	200
VS-40M	S-40	INPE	-	Sejjil	1	2	9.5	1.01	6.8	0	0	190	R	1000	200
VLS-1	S-40	INPE	-	Sejjil	0	3	19.5	1.01	50.7	120	0	1172	O	750	200
Temp	Temp	MIT/VOTK	-	Sejjil	1	1	12.4	1.01	9.7	0	0	-	M	150	900
Temp-S	Temp	MIT/VOTK	-	Sejjil	1	1	12.4	1.01	9.3	0	0	-	M	150	900
Astra Rocket 1.0	Astra	ASTRV	-	Sejjil	1	2	10.0	1.00	6.0 ?	0	0	-	R	100	900
Astra Rocket 2.0	Astra	ASTRV	-	Sejjil	1	2	10.0	1.00	6.0 ?	0	0	-	R	100	900
Orion LAS	Orion.LAS	OSCC	-	Sejjil	1	1	11.6	1.00	6.1 ?	0	0	-	M	1	900
Agni TD	ASLV	DRDO	-	Sejjil	1	2	21.0	1.00	19.0	0	0	503	M	300	1200
Agni P	ASLV	DRDO	-	Sejjil	1	2	17.2	1.00	24.0	0	0	-	M	100	5000
Agni 1	ASLV	DRDO	-	Sejjil	1	1	15.0	1.00	12.0	0	0	503	M	200	700
Agni 2	ASLV	DRDO	-	Sejjil	1	2	20.0	1.00	16.0	0	0	503	M	405	2000
Agni 2P	ASLV	DRDO	-	Agni 4	1	2	20.0	1.00	16.0	0	0	503	M	405	2000
Agni 4	ASLV	DRDO	-	Agni 4	1	2	20.0	1.00	16.0	0	0	503	M	405	2000
ASLV	ASLV	ISRO	-	Agni 4	0	4	23.6	1.00	39.0	150	0	1383	O	900	2000
SLV-3	ASLV	ISRO	-	Agni 4	1	4	23.6	1.00	17.0	42	0	503	O	900	2000
SLV-3	ASLV	ISRO	D4	Agni 4	1	4	23.6	1.00	17.0	42	0	503	O	900	2000
HS9	ASLV	ISRO	-	Agni 4	1	1	19.0	1.00	9.0	0	0	503	R	100	2000
KSR-III	KSR-3	KARI	-	Agni 4	1	1	13.5	1.00	5.6	0	0	126	R	100	2000
HANBIT-TLV	HANBIT	INNOSP	-	Agni 4	1	1	16.3	1.00	8.4	0	0	-	R	100	2000
Vesta	Vesta	LRBA	-	Agni 4	1	1	10.2	1.00	6.0	0	0	140	R	250	2000
Talon-A	Talon	STRATO	-	Agni 4	0	1	8.5	1.00	6.0	0	0	22	A	20	2000
DF-15	DF-15	ARMT	-	Agni 4	1	1	9.1	1.00 ?	6.2	0	0	-	B	100	600
Shaheen 1A	DF-15	PKNDC	-	Agni 4	1	1	9.1	1.00 ?	6.2 ?	0	0	-	B	100	750
Shaheen 1	DF-15	PKNDC	-	Agni 4	1	1	9.1	1.00 ?	6.2 ?	0	0	-	B	100	750
Dezful	Dezful	ANSAL	-	Agni 4	1	1	10.3	1.00	5.0 ?	0	0	90	B	150	750
Kheibar Shekan	Dezful	IR	-	Agni 4	1	1	14.0	1.00	20.0 ?	0	0	-	M	500	750
Fattah-1	Dezful	IR	-	Agni 4	1	1	14.0	1.00	20.0 ?	0	0	-	M	500	750

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
V-1000	V-1000	SKB30	-	Agni 4	0	1	14.5	1.00	8.8	0	0	-	A	30	750
1Ya2TA	V-1000	SKB30	-	Agni 4	0	1	14.5	1.00	8.8	0	0	-	A	30	750
Oka	Oka	KBM	-	Agni 4	1	1	7.5	0.92	4.7	0	0	-	B	80	400
Iskander	Oka	KBM	-	Agni 4	1	1	7.3	0.92	3.8	0	0	-	B	50	400
Kinzhal	Oka	KBM	-	Agni 4	0	1	7.3	0.92	3.8	0	0	-	B	50	400
Bukguekseong-6	Oka	KPA	-	Agni 4	1	1	8.0 ?	0.88 ?	14.0 ?	0	0	-	M	500	3000
Hwasong-11Ga	Oka	KPA	-	Agni 4	1	1	7.3	0.92	4.0	0	0	-	M	20	3000
Hwasong-11Ka	Oka	KPA	-	Agni 4	1	1	7.3	0.92	4.0	0	0	-	M	20	3000
Hwasong-11Da	Oka	KPA	-	Agni 4	1	1	7.3	0.92	4.0	0	0	-	M	20	3000
Hwasong-11Da-4.5	Oka	KPA	-	Agni 4	1	1	7.3	0.92	4.0	0	0	-	M	20	3000
Hwasong-11Ra	Oka	KPA	-	Agni 4	1	1	7.3	0.92	4.0	0	0	-	M	20	3000
Iskander-M	Oka	KBM	-	Agni 4	1	1	7.3	0.92	3.8	0	0	-	B	50	400
Iskander-E	Oka	KBM	-	Agni 4	1	1	7.3	0.92	3.8	0	0	-	B	50	200
Falstaff	Stonechat	RAE/RORD	-	Agni 4	1	1	5.3	0.92	5.1	0	0	240	T	30	200
Falstaff	Stonechat	RAE/RORD	1	Agni 4	1	1	5.3	0.92	5.1	0	0	240	T	30	200
Black Knight	BlackKnight	SROE	201	Agni 4	1	1	10.2	0.91	5.4	0	0	75	V	500	200
Black Knight	BlackKnight	SROE	201/C	Agni 4	1	2	11.6	0.91	6.4	0	0	95	V	500	200
Black Knight	BlackKnight	SROE	201/C2	Agni 4	1	2	11.6	0.91	6.4	0	0	95	V	500	200
Black Knight	BlackKnight	SROE	301/C	Agni 4	1	2	11.6	0.91	6.4	0	0	95	V	500	200
Black Knight	BlackKnight	SROE	301/C2	Agni 4	1	2	11.6	0.91	6.4	0	0	95	V	500	200
Nike Zeus A	Spartan	DACC/WELEC	-	Agni 4	1	2	13.3	0.91	5.0	0	0	2002	A	50	320
Skybolt ALBM	Skybolt	DAC	-	Agni 4	1	2	12.0	0.91	5.1	0	0	111	A	390	1200
IRCPS	IRCPS	LMPLM	-	Agni 4	1	2	7.3	0.88	5.0 ?	0	0	-	M	100	1200
Ghaznavi	DF-11	PKPMO	-	Agni 4	1	1	9.1	0.88 ?	6.2 ?	0	0	-	B	100	750
OS-X0	DF-11	LYK	-	Agni 4	1	1	8.4	0.88	4.6	0	0	90	B	150	300
OS-X1	DF-11	LYK	-	Agni 4	1	1	8.4	0.88	4.6	0	0	90	B	150	300
OS-M1	DF-11	LYK	-	Agni 4	1	4	19.0	0.88	20.0	0	200	90	O	150	300
OS-X6B	DF-11	LYK	-	Agni 4	1	1	9.4	0.88 ?	5.0 ?	0	0	-	R	300	300
DF-11	DF-11	SANJ	-	Agni 4	1	1	11.3	0.88	6.3	0	0	90	B	150	300
DF-11M	DF-11	SANJ	-	Agni 4	1	1	13.3 ?	0.88	8.0 ?	0	0	90	B	150	600
Elbrus	R-11	MAK	-	Agni 4	1	1	11.3	0.88	6.3	0	0	90	B	150	300
Shahab 1	R-11	MAK	-	Agni 4	1	1	11.3	0.88	6.3	0	0	90	B	76	300
Shahab 2	R-11	MAK	-	Agni 4	1	1	11.3	0.88	6.1	0	0	90	B	76	500
Qiam-1	R-11	MAK	-	Agni 4	1	1	10.6 ?	0.88	6.1	0	0	90	B	76	800
Scud B	R-11	MAK	-	Agni 4	1	1	11.3	0.88	6.3	0	0	90	B	76	300
R-17	R-11	VOTK/MAK	-	Agni 4	1	1	9.0	0.88	5.4	0	0	93	B	150	300
R-17VTO	R-11	VOTK/MAK	-	Agni 4	1	1	9.0	0.88	5.4	0	0	93	B	150	300
Al Abbas	R-11	IQ	-	Agni 4	1	1	13.2	0.88	7.8	0	0	90	B	150	900
Al Hussein	R-11	IQ	-	Agni 4	1	1	12.2	0.88	6.3	0	0	90	B	150	600
Al Hijara	R-11	IQ	-	Agni 4	1	1	11.9	0.88	6.3	0	0	90	B	150	600
Short Al Hussein	R-11	IQ	-	Agni 4	1	1	11.6	0.88	6.3	0	0	90	B	150	600
Scud	R-11	VOTK	-	Agni 4	1	1	11.2	0.88	5.5	0	0	90	B	72	600
Hwasong 5	R-11	KPA	-	Agni 4	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	150	600
Hwasong 6	R-11	KPA	-	Agni 4	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	200	600
Hwasong 9	R-11	KPA	-	-	1	1	16.0 ?	0.88	5.0 ?	0	0	255	B	150	600
Burkan-1H	R-11	ANSAL	-	-	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	150	600
Burkan-2H	R-11	ANSAL	-	-	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	150	600
Burkan-3	R-11	ANSAL	-	-	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	150	600
Zulfiqar	R-11	ANSAL	YE	-	1	1	10.0 ?	0.88 ?	5.0 ?	0	0	90	B	150	600
R-11	R-11	OKB1/MAK	-	-	1	1	7.4	0.88	4.6	0	0	80	B	160	150
R-11M	R-11	OKB1	-	-	1	1	7.4	0.88	4.6	0	0	80	B	160	150
R-11FM	R-11	OKB1	-	-	1	1	8.4	0.88	4.6	0	0	93	B	160	150
R-11A	R-11	OKB1	-	-	1	1	10.2	0.88	4.6	0	0	80	B	200	150
R-11A-MV	R-11	OKB1	-	-	1	1	10.0 ?	0.88	5.0 ?	0	0	80	B	200	150
Wasserfall	Hermes	WEHR	-	-	1	1	7.8	0.88	3.5	0	0	80	A	18	29
CHGB Booster	CHGB	USN/LM	-	-	1	2	10.2	0.88	7.4	0	0	-	M	100	29
Hermes A-1	Hermes	GEMTS	-	-	1	1	7.8	0.86	3.0	0	0	71	A	24	60
Viking	Viking	NRL	-	-	1	1	14.9	0.81	4.5	0	0	93	R	200	60
Topaze VE111	Agate	SEREB	-	-	1	1	7.1	0.80	2.8	0	0	120	V	80	60
Topaze VE111L	Agate	SEREB	-	-	1	1	7.9	0.80	3.4	0	0	147	V	110	60
Agate	Agate	SEREB	-	-	1	1	8.5	0.80	3.2	0	0	186	Q	20	60
Rubis	Agate	SEREB	-	-	1	2	9.6	0.80	4.0 ?	0	0	186	R	2000	60
MD-620	Agate	DASST/IAI	-	-	1	1	13.4	0.80	6.5	0	0	-	B	100	500
MD-620	Agate	DASST/IAI	2	-	1	2	13.4	0.80	6.5	0	0	-	B	100	500
Jericho	Agate	DASST/IAI	-	-	1	2	13.4	0.80	6.5	0	0	-	B	100	500
Jericho-1	Arrow2	DASST/IAI	-	-	1	1	9.0 ?	0.80 ?	6.0 ?	0	0	-	B	100	500
Arrow 2	Arrow2	IAI	-	-	1	2	6.3	0.80 ?	2.5	0	0	-	A	40	50
HIBEX	HIBEX	BOKT?	-	-	1	1	5.2	0.79 ?	6.0 ?	0	0	-	T	20	50
Upstage	HIBEX	MDAC	-	-	1	2	5.2	0.79 ?	6.0 ?	0	0	-	T	20	50
ARPAT	Sergeant	RAYTH?	-	-	0	2	8.0 ?	0.79	4.0 ?	0	0	-	T	30	50
RV-A-10	Sergeant	GEMTS/JPL	-	-	1	1	6.2	0.79	3.5	0	0	140	T	58	110
Sergeant	Sergeant	JPL	-	-	1	1	5.1	0.79	2.3	0	0	220	R	80	110
Sergeant	Sergeant	DNA	2R	-	0	1	5.1	0.79	2.3	0	0	220	R	80	110

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
High Virgo WS199C	Sergeant	CONV	-	-	0	1	9.4	0.79	5.5	0	0	220	M	250	110
Polaris TV	Polaris	LVN	-	-	1	1	8.0 ?	0.79 ?	5.0 ?	0	0	220	T	30	110
Polaris FTV-5	Sergeant	LMSC	-	-	1	2	10.1	0.79 ?	5.0 ?	0	0	-	R	40	110
Journeyman	Sergeant	AEROL	-	-	0	4	18.9	0.79	6.3	0	0	-	R	3000	110
Bold Orion	Sergeant	MARTB	1	-	0	1	11.3	0.79	-	0	0	-	R	100	110
Bold Orion	Sergeant	MARTB	2	-	0	2	11.3	0.79	-	0	0	-	R	200	110
Storm	Sergeant	OSCC	-	-	1	2	-	0.79	6.0 ?	0	0	-	M	200	110
Sergeant Hydac	Sergeant	SDCO	-	-	1	2	13.8	0.79	4.8	0	0	-	R	500	110
Draco	Sergeant	MCDA	-	-	1	2	14.0	0.79	-	0	0	-	Q	30	110
X-17	Sergeant	LVN	-	-	1	3	12.3	0.79	3.4	0	0	220	V	500	110
Polaris FTV-3	Sergeant	LVN	-	-	1	3	12.3	0.79	3.4	0	0	220	V	500	110
Polaris FTV-1	Sergeant	LMSC	-	-	1	1	10.1	0.79 ?	5.0 ?	0	0	-	R	40	110
Shotput	Sergeant	PARD	-	-	0	2	9.9	0.79	5.1	0	0	220	X	400	110
Sergeant 5-stage	Sergeant	PARD	-	-	1	5	14.0 ?	0.79	-	0	0	230	Q	35	110
Castor	Sergeant	THKX	-	-	1	1	8.0 ?	0.79	-	0	0	235	R	300	110
Blue Scout Jr	Sergeant	LTV	-	-	1	4	12.4	0.79	5.8	0	0	222	R	200000	110
Blue Scout Jr SLV-1B(m)	Sergeant	LTV	-	-	1	3	12.0 ?	0.79	5.8	0	0	222	R	1000	110
Blue Scout Jr SLV-1C	Sergeant	LTV	-	-	1	3	12.4	0.79	5.8	0	0	222	R	1000	110
RAM A	Sergeant	PARD	-	-	0	4	-	0.79	-	0	0	-	R	100	110
RAM B	Sergeant	PARD	-	-	1	3	12.6	0.79	6.0	0	0	235	R	100	110
Strypi	Sergeant	SAND	-	-	0	1	-	0.79	-	0	0	-	R	200	110
Swik A	Sergeant	SAND	-	-	0	2	11.0	0.79	5.9	0	0	-	R	1200	110
Strypi II	Sergeant	SAND	-	-	0	1	11.3	0.79	5.5	0	0	586	R	208	110
Strypi IIR	Sergeant	SAND	-	-	0	1	11.3	0.79	5.5	0	0	586	R	208	110
Strypi IIAR	Sergeant	SAND	-	-	0	1	-	0.79	-	0	0	586	R	250	110
Strypi IV	Sergeant	SAND	-	-	0	2	9.3	0.79	-	0	0	586	R	500	110
Strypi IVA	Sergeant	SAND	-	-	0	2	9.3	0.79	-	0	0	586	R	500	110
Strypi IVR	Sergeant	SAND	-	-	0	2	9.3	0.79	-	0	0	586	R	500	110
Strypi VI	Sergeant	SAND	-	-	0	3	-	0.79	-	0	0	-	R	200	110
Strypi VIIAR	Sergeant	SAND	-	-	0	3	-	0.79	-	0	0	-	R	200	110
Strypi VIIR	Sergeant	SAND	-	-	0	3	11.2	0.79	4.6	0	0	499	R	170	110
Strypi VIIIR	Sergeant	SAND	-	-	0	2	11.2	0.79	4.6	0	0	499	R	170	110
Strypi IX	Sergeant	SAND	-	-	1	2	-	0.79	-	0	0	-	R	200	110
Strypi XI	Sergeant	SAND	-	-	0	3	-	0.79	-	0	0	-	R	120	110
Castor	Sergeant	THKX	2R	-	0	1	10.0 ?	0.79	5.2 ?	0	0	586	R	240	110
DOT	Sergeant	SAND	-	-	0	2	11.6	0.79	5.5	0	0	586	R	300	110
Athena	Sergeant	ATLR	-	-	0	4	15.2	0.79	7.2	0	0	586	M	200	110
WASP	Sergeant	LARC?	-	-	0	2	14.7	0.79	6.8	0	0	580	R	240	110
Castor Lance	Sergeant	SAND	-	-	0	2	15.1	0.79	5.8	0	0	-	R	600	110
Castor-Recruit	Sergeant	SAND	-	-	1	2	-	0.79	-	0	0	-	R	150	110
Trailblazer 2	Sergeant	AFCRL	-	-	0	4	15.7	0.79	6.1	0	0	547	R	300	110
Trailblazer 2	Sergeant	AFCRL	M	-	0	5	15.7	0.79	6.1	0	0	547	R	300	110
Astrobee 1500	Sergeant	AJSP	-	-	0	2	10.4	0.79	5.2	0	0	566	R	2000	110
Scanner	Sergeant	LARC	-	-	0	3	-	0.79	-	0	0	550	R	600	110
Xaero	Xaero	MASTEN	-	-	1	1	4.6 ?	0.77 ?	1.0 ?	0	0	-	R	30	110
D-21B	Avanti	LAC	-	-	1	2	13.1	0.77	-	0	0	-	R	30	110
RTV-A-2	MX-774	CONV	-	-	1	1	9.6	0.76	1.3	0	0	35	T	50	110
Corporal	Corporal	SUEL/JPL	-	-	1	1	14.0	0.76	5.4	0	0	89	A	50	110
Corporal Type 1	Corporal	SUEL/JPL	-	-	1	1	14.0	0.76	5.4	0	0	89	A	50	110
Corporal E	Corporal	JPL	-	-	1	1	14.0	0.76	4.5	0	0	89	T	50	110
Talos	Talos	APL	-	-	1	1	9.8	0.76	3.5	0	0	-	A	20	110
HPB	Talos	SDCO	-	-	1	2	14.4	0.76	9.0	0	0	-	R	400	110
Talos Castor	Talos	SDCO	-	-	1	2	16.9	0.76	8.2	0	0	-	R	300	110
Talos Terrier	Talos	DNA	-	-	1	2	10.0 ?	0.76	-	0	0	-	R	12	110
Talos Terrier Oriole	Talos	NASA	-	-	1	3	19.8	0.76	-	0	0	-	R	12	110
SRBM T4-G	Talos	MDA	-	-	1	2	14.0 ?	0.76	-	0	0	-	R	200	110
LCLV	Talos	SDCO	-	-	1	3	16.5	0.76	6.9	0	0	-	R	400	110
Talos Sergeant Hydac	Talos	SDCO	-	-	1	3	17.3	0.76	6.1	0	0	-	R	500	110
TATER	Talos	SAMSO?	-	-	1	3	12.3	0.76	-	0	0	-	Q	5	110
Starbird	Talos	SDCO	-	-	1	4	17.5	0.76	7.4	0	0	-	R	500	110
Super Chief I	Talos	AJSP	-	-	1	2	14.7	0.76	4.7	0	0	516	R	300	110
Super Chief II	Talos	AJSP	-	-	1	2	14.7	0.76	4.7	0	0	516	R	300	110
Talos Terrier Peregrine	Talos	MSFC	-	-	1	3	14.0 ?	0.46	1.0 ?	0	0	-	R	500	110
Oriole III	Talos	DTI	-	-	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	110
Oriole IV	Talos	NASA	-	-	1	4	19.8	0.76	-	0	0	-	R	12	110
Black Brant XI	Talos	BAL	-	-	1	3	17.0 ?	0.76	5.3	0	0	489	R	1400	110
Black Brant XII	Talos	BAL	-	-	1	4	17.0 ?	0.76	5.3	0	0	489	R	1500	110
Black Brant XIA	Talos	BAL	-	-	1	3	17.0 ?	0.76	5.3	0	0	489	R	1400	110
Black Brant XIIA	Talos	BAL	-	-	1	4	17.0 ?	0.76	5.3	0	0	489	R	1500	110
Black Brant XI	Talos	BAL	1	-	1	3	17.0 ?	0.76	5.3	0	0	489	R	1400	110
Black Brant XII	Talos	BAL	1	-	1	4	17.0 ?	0.76	5.3	0	0	489	R	1500	110
NOTS EV1	HOTROC	NOTS	-	-	0	5	4.4	0.76	0.9	1	0	125	O	5000	110
NOTS EV1	HOTROC	NOTS	1	-	1	5	4.4	0.76	0.9	0	0	125	T	10	110

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Al Samoud 2	Samoud	IQMIC	-	-	1	1	7.2	0.76	2.0	0	0	-	R	50	110
OTRAG	OTRAG	OTR	-	-	1	1	10.3	0.76	-	0	0	-	T	20	110
TKS VA SAS	TKSVA	OKB52	-	-	1	1	10.5	0.74	-	0	0	-	T	1	110
Lambda 2	Lambda	ISAS	-	-	0	2	15.5	0.74	6.3	0	0	970	R	500	110
Lambda 3	Lambda	ISAS	-	-	0	3	17.4	0.74	7.0	0	0	970	R	1000	110
Lambda 3H	Lambda	ISAS	-	-	0	3	16.5	0.74	8.2	0	0	970	R	2000	110
Lambda 4S	Lambda	ISAS	-	-	0	4	16.5	0.74	9.4	26	0	970	O	5000	110
Lambda 4SC	Lambda	ISAS	-	-	0	4	16.5 ?	0.74	9.4 ?	0	0	970	X	2000	110
Lambda 4T	Lambda	ISAS	-	-	0	4	16.5 ?	0.74	9.4 ?	0	0	970	X	2000	110
ST-735	SB-735	ISAS	-	-	1	2	14.0 ?	0.74	7.4	0	0	-	R	120	110
ST-735	SB-735	ISAS	1	-	0	1	14.6	0.74	7.4	0	0	-	R	120	110
NAL-735	SB-735	ISAS/NAL	-	-	1	1	10.0	0.74	4.7	0	0	250	T	18	110
Shaurya	K-15	DRDO	-	-	1	2	10.0	0.74	6.2	0	0	-	R	200	600
Kontakt	Kontakt	FAKEL	-	-	1	3	10.0	0.74	4.5	0	0	-	R	500	600
VLS-R1	Sonda	IAE	-	-	1	2	6.0 ?	0.72	1.0 ?	0	0	120	T	10	600
Pedro Recruit	Pedro	USAF	-	-	1	2	7.8	0.71	-	0	0	244	T	20	600
Arrow 3	Arrow3	IAI	-	-	1	2	11.0 ?	0.70 ?	1.5 ?	0	0	-	A	100	50
Miura 1	Miura	PLDS	-	-	1	1	12.7	0.70	2.6	0	0	30	R	100	50
Skylark L	SkylarkL	SKYR	-	-	1	1	11.7	0.70	0.0	0	0	-	W	30	50
HIMES Rockoon	KM-D	NISST	-	-	0	1	3.5 ?	0.70	0.5	0	0	-	T	70	50
Zulfiqar	Zulfiqar	IR	-	-	1	1	10.3	0.68	5.0 ?	0	0	90	B	150	50
Zolfaghar	Zulfiqar	IRGC	-	-	1	1	10.3	0.68	5.0 ?	0	0	90	B	150	50
Apollo LES	Apollo.LES	NAA	-	-	1	1	10.2	0.66	2.5 ?	0	0	690	T	2	50
ARRW	ARRW	LMPLM	-	-	1	1	5.9	0.66 ?	2.3	0	0	-	M	50	50
KN-02	Tochka	KPA	-	-	1	1	6.4	0.65	2.0	0	0	-	M	20	50
Tochka	Tochka	KBM	-	-	1	1	6.4	0.65	2.0	0	0	-	M	20	50
Tochka-U	Tochka	KBM	-	-	1	1	6.4	0.65	2.0	0	0	-	M	26	50
ZUR-215	V-750	NPOL	-	-	1	1	10.7 ?	0.65 ?	2.3 ?	0	0	490	R	27	50
V-750	V-750	FAKEL	-	-	0	1	10.7	0.65	2.3	0	0	490	R	27	50
Qahir-1	V-750	FAKEL	-	-	0	1	11.0	0.65	2.3	0	0	490	R	27	250
Qahir-M2	V-750	FAKEL	-	-	0	1	11.0	0.65	2.3	0	0	490	R	27	250
SR75	SR75	HYIMP	-	-	1	1	14.0	0.64	1.0 ?	0	0	75	R	50	250
Sabre Zombie	ATACMS	SMDC	-	-	1	1	4.0	0.61	1.0	0	0	57	R	40	250
Pathfinder Zombie	ATACMS	SMDC	-	-	1	1	6.0	0.61	1.0	0	0	57	R	40	250
ATACMS	ATACMS	SMDC	-	-	1	1	5.0 ?	0.61	1.0	0	0	57	R	40	250
X-51A	ATACMS	BNAP	-	-	0	2	7.7	0.61	1.8	0	0	180	T	20	250
Tayfun	B-611	ROKSN	-	-	1	1	7.0 ?	0.60	2.0 ?	0	0	-	M	50	280
Bora-1	B-611	ROKSN	-	-	1	1	7.0 ?	0.60	2.0 ?	0	0	-	M	50	280
B-611	B-611	SANJ	-	-	1	1	7.0 ?	0.60	2.0 ?	0	0	90	B	150	600
TP 0.1	B-611	ROKSN	-	-	1	1	6.0 ?	0.60	1.0	0	0	-	R	20	600
TP 0.2	B-611	ROKSN	-	-	1	2	8.0 ?	0.60	1.0	0	0	-	R	20	600
SR 0.1	B-611	ROKSN	-	-	1	2	8.0 ?	0.60	1.0	0	0	-	R	20	600
K-BATS	ATACMS	HANWHA	-	-	1	1	4.0	0.60	1.5 ?	0	0	-	M	50	600
Hwasong-11Na	KN-24	KP	-	-	1	1	5.5	0.60 ?	1.5 ?	0	0	-	M	50	600
Badr-1	Grad	FAKEL	-	-	1	1	5.0	0.60 ?	2.0 ?	0	0	-	M	20	600
Grad	Grad	FAKEL	-	-	1	1	5.0	0.60 ?	2.0 ?	0	0	-	M	20	600
NOTS EV2	NOTS500	NOTS	-	-	0	2	4.9	0.61	1.3	0	0	-	X	1200	600
GFV	NOTS500	NOTS	1	-	0	2	4.9	0.61	1.3	0	0	-	X	1200	600
GFV	NOTS500	NOTS	2	-	0	2	4.9	0.61	1.3	0	0	-	X	1200	600
HYSR	HYSR	LMSC	-	-	1	1	18.0	0.61	-	0	0	270	R	70	600
SORS	SORS	DVST	-	-	1	1	10.0 ?	0.60	-	0	0	-	R	100	600
LS-C	LS-C	MHITO?	-	-	1	2	10.3	0.60	2.3	0	0	-	R	100	600
LS-C	LS-C	MHITO?	7	-	1	2	10.3	0.60	2.3	0	0	-	R	100	600
Seliger 1	Seliger	DRG	-	-	1	1	3.4	0.60	0.5 ?	0	0	49	R	52	600
Seliger 2	Seliger	DRG	-	-	1	2	6.0	0.60	1.5 ?	0	0	49	R	80	600
Seliger 3	Seliger	DRG	-	-	1	3	12.8	0.60	3.0 ?	0	0	49	R	120	600
JTSPACE Sounding Rocket	JTSPACE	JTSPACE	-	-	1	2	11.4	0.60	1.4	0	0	66	R	100	600
Javelin	HJ	AEROL	-	-	1	4	14.8	0.58	3.4	0	0	365	R	1100	600
Trailblazer 1	HJ	PARD	-	-	1	6	17.1	0.58	3.4	0	0	365	R	280	600
Taurus Orion	HJ	WFF	-	-	1	2	10.1	0.58	2.0	0	0	457	R	200	600
Taurus Tomahawk	HJ	WFF	-	-	1	2	9.4	0.58	1.6	0	0	457	R	550	600
Taurus Nike Tomahawk	HJ	WFF	-	-	1	3	12.0	0.58	2.2	0	0	457	R	700	600
Taurus	HJ	WFF	S	-	1	1	5.0 ?	0.58	1.5	0	0	457	T	10	600
Taurion	HJ	WFF	-	-	1	1	5.0 ?	0.58	1.5	0	0	7	T	2	600
Exos	HJ	UMI	-	-	1	3	12.9	0.58	2.6	0	0	365	R	600	600
Strongarm	HJ	UMI	-	-	1	5	17.1	0.58	3.3	0	0	365	R	1000	600
Strongarm	HJ	UMI	1	-	1	4	17.1	0.58	3.3	0	0	365	R	1000	600
Honest John	HJ	ORDRSA	-	-	1	1	5.0	0.58	1.5	0	0	365	T	10	600
Father John	HJ	ORDRSA	1	-	0	1	5.0	0.58	1.5	0	0	365	T	10	600
Father John	HJ	ORDRSA	2	-	0	1	5.0	0.58	1.5	0	0	365	T	10	600
Improved Honest John	HJ	DAC	-	-	1	1	4.1	0.58	1.5	0	0	-	M	10	600
HJ	HJ	ORDRSA	-	-	1	1	5.0	0.58	1.5	0	0	365	T	10	600
HJ Hydac	HJ	SDCO	-	-	1	2	11.3	0.58	2.6	0	0	365	R	150	600

LV

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HJ Orion	HJ	NASA	-	-	1	2	12.6	0.58	2.0 ?	0	0	365	R	120	600
HJ Javelin	HJ	SDCO	-	-	1	2	9.1	0.58	1.7	0	0	365	R	100	600
HJ Nike	HJ	SDCO	-	-	1	2	14.3	0.58	2.7	0	0	365	R	100	600
HJ Nike Hydac	HJ	SDCO	-	-	1	3	14.3	0.58	2.9	0	0	365	R	500	600
HJ Nike Javelin	HJ	SDCO	-	-	1	3	13.4	0.58	2.8	0	0	365	R	300	600
HJ Nike Gosling	HJ	PARD	-	-	1	3	10.0 ?	0.58	-	0	0	365	Q	20	600
HJ Nike Nike	HJ	PARD	-	-	1	3	10.0 ?	0.58	-	0	0	365	R	170	600
HJ Nike Nike 20"SM	HJ	PARD	-	-	1	4	12.0 ?	0.58	3.2	0	0	365	R	1380	600
HJ Nike T40	HJ	PARD	-	-	1	3	12.0 ?	0.58	-	0	0	365	Q	30	600
HJ Nike T40 T55	HJ	PARD	-	-	1	4	12.0 ?	0.58	-	0	0	365	Q	30	600
HJ Nike Tri-Deacon T40	HJ	PARD	-	-	1	4	12.0 ?	0.58	-	0	0	365	Q	30	600
HJ Nike Nike Recruit	HJ	PARD	-	-	1	4	10.0	0.58	1.3	0	0	365	Q	30	600
HJ Nike Nike Recruit T55	HJ	PARD	-	-	1	5	10.9	0.58	1.3	0	0	365	Q	30	600
HJ PRV	HJ	PARD	-	-	1	4	12.0 ?	0.58	-	0	0	365	R	100	600
Jason	HJ	AEROL	-	-	1	5	17.5	0.58	3.4	0	0	365	R	800	600
X-7A-1	HJ	LVN	-	-	1	2	2.1	0.61	3.6	0	0	-	C	30	600
Fateh-110	Zelzal	IR	-	-	1	1	9.0 ?	0.61	1.0 ?	0	0	-	M	60	200
Fateh-360	Zelzal	IR	-	-	1	1	9.0 ?	0.61	1.0 ?	0	0	-	M	100	500
M-600	Zelzal	SYMC	-	-	1	1	9.0 ?	0.61	1.0 ?	0	0	-	M	60	241
Zelzal	Zelzal	IR	-	-	1	1	10.0 ?	0.61	0.9	0	0	-	R	50	209
Zelzal-1	Zelzal	IR	-	-	1	1	10.0 ?	0.61	0.9	0	0	-	R	50	209
Zelzal-2	Zelzal	IR	-	-	1	1	10.0 ?	0.61	0.9	0	0	-	R	50	209
Zelzal-3	Zelzal	IR	-	-	1	1	10.0 ?	0.61	0.9	0	0	-	R	50	209
Kavoshgar K110	Zelzal	IR	-	-	1	1	10.0 ?	0.61	0.9	0	0	-	R	50	209
Lance	Lance	LTVM	-	-	1	1	6.2	0.56	-	0	0	-	M	46	209
Sonda 3	Sonda3	IAE	-	-	1	2	8.0	0.56	1.5	0	0	102	R	600	209
Sonda 3	Sonda3	IAE	M1	-	1	2	8.0	0.56	1.4	0	0	102	R	600	209
Sonda 3	Sonda3	IAE	M2	-	1	2	8.0	0.56	1.4	0	0	102	R	600	209
VS-30	Sonda3	INPE	-	-	1	1	5.0 ?	0.56	1.4 ?	0	0	102	R	140	209
VSB-30	Sonda3	INPE	-	-	1	2	12.0	0.56	2.6	0	0	102	R	265	209
S31/S30/IO	Sonda3	INPE	-	-	1	3	12.0	0.56	2.6	0	0	102	R	265	209
VS-30/Orion	Sonda3	INPE	-	-	1	2	7.0 ?	0.56	1.8 ?	0	0	102	R	320	209
VS-31/Orion	Sonda3	IAE	-	-	1	2	8.0 ?	0.56	1.8 ?	0	0	102	R	400	209
VS-31/IM	Sonda3	IAE	-	-	1	2	8.0 ?	0.56	2.7	0	0	102	R	400	209
Red Kite	RedKite	DLR/BAYCH	-	-	1	1	3.3	0.56	1.1	0	0	226	R	70	209
Red Kite/IM	RedKite	DLR/BAYCH	-	-	1	2	8.0 ?	0.56	1.1	0	0	226	R	70	209
ATV	Stromboli	VSSC	-	-	1	2	10.3	0.56	3.0	0	0	120	R	400	209
RH-560/300 Mk II	Stromboli	VSSC	-	-	1	2	9.1	0.56	1.3	0	0	76	R	400	209
RH-560 Mk III	Stromboli	VSSC	-	-	1	2	9.1	0.56	1.3	0	0	76	R	400	209
RH-560S	Stromboli	VSSC	-	-	1	1	5.9	0.56	1.5	0	0	119	R	250	209
RH-560	Stromboli	VSSC	-	-	1	2	8.4	0.56	1.3	0	0	76	R	400	209
RH-560/LPR-3T	Stromboli	VSSC	-	-	1	2	10.0	0.56	2.5	0	0	119	R	420	209
Berenice	Stromboli	ONERA	-	-	1	4	12.3	0.56	3.4	0	0	170	V	250	209
Titus	Stromboli	ONERA	-	-	1	2	11.6	0.56	3.4	0	0	170	V	250	209
Tibere	Stromboli	ONERA	-	-	1	3	14.2	0.56	4.6	0	0	170	V	1000	209
Tacite	Stromboli	ONERA	-	-	1	1	7.8	0.56	2.0	0	0	170	V	150	209
OPd-56-39-22D	Stromboli	ONERA	-	-	1	4	12.2	0.56	1.8	0	0	200	R	280	209
Antares	Stromboli	ONERA	-	OPd-56-39-22D	1	4	12.2	0.56	1.8	0	0	200	R	280	209
Dragon	Stromboli	SUD	-	OPd-56-39-22D	1	2	7.0 ?	0.56	1.2 ?	0	0	75	R	440	209
Dragon 2B	Stromboli	SUD	-	OPd-56-39-22D	1	2	7.0	0.56	1.2	0	0	97	R	440	209
Dragon 3	Stromboli	SUD	-	OPd-56-39-22D	1	2	7.3	0.56	1.3	0	0	97	R	520	209
Hatf I	Stromboli	SUPA	-	OPd-56-39-22D	1	1	5.3	0.56	1.1	0	0	97	R	116	209
Dauphin	Stromboli	SUD	-	OPd-56-39-22D	1	1	5.3	0.56	1.1	0	0	97	R	116	209
Eridan	Stromboli	CNES	-	OPd-56-39-22D	1	2	8.3	0.56	2.1	0	0	97	R	480	209
Hatf II	Stromboli	SUPA	-	OPd-56-39-22D	1	2	8.3	0.56	2.1	0	0	97	R	250	209
SE4400	Stromboli	SUD	-	OPd-56-39-22D	1	1	8.1	0.56	1.2	0	0	-	A	60	209
VE10A Aigle	Stromboli	LRBA	-	OPd-56-39-22D	1	1	8.0	0.55	2.3	0	0	-	Q	20	209
VE10 Aigle	Stromboli	LRBA	-	OPd-56-39-22D	1	1	8.0	0.55	2.3	0	0	-	Q	20	209
Stataltex	Stromboli	NORD	-	OPd-56-39-22D	1	1	9.9	0.56	1.7	0	0	-	C	30	209
Vega Statoreacteur	Stromboli	NORD	-	OPd-56-39-22D	1	1	9.9	0.56	1.7	0	0	-	C	30	209
Veronique R	Veronique	LRBA	-	OPd-56-39-22D	1	1	7.3	0.55	1.3	0	0	40	T	2	209
Veronique	Veronique	LRBA	-	OPd-56-39-22D	1	1	7.3	0.55	1.3	0	0	40	R	100	209
Veronique AGI	Veronique	LRBA	-	OPd-56-39-22D	1	1	7.1	0.55	1.3	0	0	40	R	100	209
Veronique 61	Veronique	LRBA	-	OPd-56-39-22D	1	1	9.5	0.55	1.9	0	0	60	R	300	209
Veronique 61M	Veronique	LRBA	-	OPd-56-39-22D	1	1	9.5	0.55	1.9	0	0	60	R	300	209
Veronique P2	Veronique	LRBA	-	OPd-56-39-22D	1	1	6.0 ?	0.55 ?	0.5	0	0	20	T	2	209
Veronique P6	Veronique	LRBA	-	OPd-56-39-22D	1	1	6.0 ?	0.55 ?	0.5	0	0	20	T	2	209
Sounding Rocket	NSPOB	NSPO	-	OPd-56-39-22D	1	2	8.0	0.55 ?	2.0 ?	0	0	-	R	200	209
Luna-M	Luna	MITT	-	OPd-56-39-22D	1	1	9.4	0.54	2.5	0	0	-	M	70	209
SM-3	Mk72	USN	-	OPd-56-39-22D	1	3	7.9	0.53	1.3	0	0	-	R	100	209
SM-3-IB	Mk72	USN	-	OPd-56-39-22D	1	3	7.9	0.53	1.3	0	0	-	R	100	209
SM-3-IIA	Mk72	USN	-	OPd-56-39-22D	1	3	7.9	0.53	1.3	0	0	-	R	100	209
SM-2-IV	Mk72	USN	-	OPd-56-39-22D	1	2	7.9	0.53	1.3	0	0	-	A	30	209

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
SM-6	Mk72	USN	-	OPd-56-39-22D	1	2	7.9	0.53	1.3	0	0	-	A	30	209
Hades	Hades	AELM	-	OPd-56-39-22D	1	1	7.5	0.53	1.9	0	0	-	B	150	300
Black Sparrow	BlackSparrow	IAI	-	OPd-56-39-22D	0	1	4.8	0.53	1.2	0	0	-	B	40	300
Blue Sparrow	BlackSparrow	IAI	-	OPd-56-39-22D	0	1	6.5	0.53	1.9	0	0	-	B	100	300
Silver Sparrow	BlackSparrow	IAI	-	OPd-56-39-22D	0	1	8.4	0.53	3.1	0	0	-	B	100	300
Al Samoud	V-750	IQMIC	-	OPd-56-39-22D	1	1	7.7	0.50	1.5	0	0	-	R	50	300
Al Fatah	Fatah	FATAH	-	OPd-56-39-22D	1	1	6.5	0.50	1.6	0	0	-	R	50	300
Cedre 3	Cedre	LRS	-	OPd-56-39-22D	1	3	6.8	0.52	1.2	0	0	-	R	200	300
Cedre 4	Cedre	LRS	-	OPd-56-39-22D	1	3	7.0 ?	0.52	1.2	0	0	-	R	200	300
S-520	S-520	NISST	-	OPd-56-39-22D	1	1	9.4	0.52	2.2	0	0	143	R	430	300
SS-520	S-520	NISST	-	OPd-56-39-22D	1	2	9.7	0.52	2.6	0	0	-	R	1000	300
SS-520	S-520	NISST	4	OPd-56-39-22D	1	3	9.7	0.52	2.6	0	0	-	O	1000	300
TT-500	JCR	NASDA	-	OPd-56-39-22D	1	2	10.5	0.50	2.2	0	0	-	R	200	300
TT-500A	JCR	NASDA	-	OPd-56-39-22D	1	2	10.5	0.50	2.2	0	0	-	R	290	300
48N6	48N6	FAKEL	-	OPd-56-39-22D	1	1	7.5	0.50	1.8	0	0	-	R	40	300
JCR	JCR	NASDA	-	OPd-56-39-22D	1	2	10.3	0.51	2.3	0	0	133	X	200	300
Momo	Momo	IST	-	OPd-56-39-22D	1	1	9.9	0.50	1.1	0	0	12	R	100	300
Momo	Momo	IST	6	OPd-56-39-22D	1	1	10.1	0.50	1.2	0	0	14	R	100	300
Hydra Sandhawk	NOTS400	NOTS/LLNL	-	OPd-56-39-22D	1	2	10.0 ?	0.50 ?	1.2 ?	0	0	-	R	280	300
STIG-B	STIG-B	ARMAD	-	OPd-56-39-22D	1	1	10.4	0.51	0.7	0	0	22	R	80	300
SARGE	STIG-B	EXOSA	-	OPd-56-39-22D	1	1	11.0	0.51	1.1	0	0	24	R	100	300
K-15	K-15	DRDO	-	OPd-56-39-22D	1	2	11.0	0.50 ?	4.0 ?	0	0	-	R	300	300
E-8-5 VA	E8	NPOL	-	OPd-56-39-22D	1	1	2.3	0.50 ?	0.8	0	0	-	D	99000	300
Long Tom	LongTom	WRE	-	OPd-56-39-22D	1	2	8.3	0.47	0.9	0	0	190	R	120	300
Long Tom	LongTom	WRE	1	OPd-56-39-22D	1	2	8.3	0.47	0.9	0	0	190	R	120	300
HAT	LongTom	WRE	-	OPd-56-39-22D	1	2	5.0 ?	0.47 ?	0.5 ?	0	0	-	W	60	300
Nike T48 Ajax	T48	DAC	-	OPd-56-39-22D	1	2	8.0	0.46	1.3	0	0	190	A	20	300
SM-2	Terrier	USN	-	OPd-56-39-22D	1	2	7.9	0.53	1.3	0	0	-	A	30	300
SM-1ER	Terrier	GDPO	-	OPd-56-39-22D	1	2	8.0	0.46	1.3	0	0	258	A	20	300
Hugo	Terrier	NMSU	-	OPd-56-39-22D	1	2	10.0 ?	0.46	1.3 ?	0	0	-	A	160	300
Terrier Sandhawk	Terrier	SAND	-	OPd-56-39-22D	1	2	11.4	0.46	-	0	0	258	R	430	300
ARAV-ER	Terrier	KRAT	-	OPd-56-39-22D	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Oriole II	Terrier	DTI	-	Terrier Oriole	1	2	11.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Terrier Oriole	Terrier	DTI	-	Terrier Oriole	1	2	11.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Terrier Oriole Oriole	Terrier	DGA	-	Terrier Oriole	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Oriole IIIA	Terrier	DTI	-	Terrier Oriole	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Terrier Terrier Oriole	Terrier	DTI	-	Terrier Oriole	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	300
MRBM T4-E	Terrier	DTI	-	Terrier Oriole	1	3	14.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Terrier Mk 70 Oriole	Terrier	DTI	-	Terrier Oriole	1	2	11.0 ?	0.46	1.0 ?	0	0	258	R	370	300
SRBM T4-B	Terrier	DTI	-	Terrier Oriole	1	2	11.0 ?	0.46	1.0 ?	0	0	258	R	370	300
Terrier	Terrier	ORDRSA	-	Terrier Oriole	1	1	6.0 ?	0.46	1.3 ?	0	0	258	T	30	300
Terrier Mk 70 Peregrine	Terrier	MSFC	-	Terrier Oriole	1	2	17.0	0.46	2.2	0	0	-	R	300	300
Terrier Malemute	Terrier	SAND	-	Terrier Oriole	1	2	12.7	0.46	1.6	0	0	258	R	500	300
Terrier Imp Malemute	Terrier	GSFC	-	Terrier Oriole	1	2	12.7	0.46	1.6	0	0	258	R	500	300
Terrier Imp Malemute	Terrier	GSFC	2	Terrier Oriole	1	2	12.7	0.46	1.6	0	0	258	R	500	300
Terrier Imp Malemute	Terrier	GSFC	1	Terrier Oriole	1	2	12.7	0.46	1.6	0	0	258	R	500	300
Terrier Terrier Imp Mal.	Terrier	GSFC	-	Terrier Oriole	1	3	12.7	0.46	1.6	0	0	258	R	500	300
Terrier/551	Terrier	NOTS?	-	Terrier Oriole	1	2	8.4	0.46	1.3	0	0	258	R	450	300
Terrier LEAP	Terrier	BMDO	-	Terrier Oriole	1	3	10.0 ?	0.46 ?	1.3 ?	0	0	258	A	30	300
Terrier ASAS	Terrier	BMDO	-	Terrier Oriole	1	2	12.0	0.46	1.3 ?	0	0	258	A	275	300
Terrier Hydac	Terrier	DACC	-	Terrier Oriole	1	2	10.0 ?	0.46	-	0	0	258	R	500	300
Terrier Nike	Terrier	SAND	-	Terrier Oriole	1	2	9.8	0.46	1.1 ?	0	0	258	A	2	300
Terrier Asp IV	Terrier	NOTS	-	Terrier Oriole	1	2	10.0 ?	0.46	1.1 ?	0	0	258	R	100	300
Terrier Asp	Terrier	NOTS	-	Terrier Oriole	1	2	10.0 ?	0.46	1.1 ?	0	0	258	R	100	300
Terrier Orion	Terrier	NASA	-	Terrier Oriole	1	2	12.8 ?	0.46	1.3	0	0	258	R	300	300
Terrier Mk 70 Orion	Terrier	NASA	-	Terrier Oriole	1	2	12.8 ?	0.46	1.3	0	0	258	R	300	300
Terrier Improved Orion	Terrier	NASA	-	Terrier Oriole	1	2	12.8 ?	0.46	1.3	0	0	258	R	300	300
Terrier Mk 12 Imp Orion	Terrier	NASA	-	Terrier Oriole	1	2	12.8 ?	0.46	1.3	0	0	258	R	300	300
Terrier Mk 70 Imp Orion	Terrier	NASA	-	Terrier Oriole	1	2	12.8 ?	0.46	1.3	0	0	258	R	300	300
Terrier Tomahawk	Terrier	SAND	-	Terrier Oriole	1	2	9.0 ?	0.46	1.1 ?	0	0	258	R	300	300
Black Dagger	Terrier	SMDC	-	Boosted Zombie	1	2	6.0	0.46	1.0	0	0	258	R	40	300
Boosted Zombie	Terrier	SMDC	-	Boosted Zombie	1	2	6.0	0.46	1.0	0	0	258	R	40	300
Terrier Lynx	Terrier	NAWC?	-	Boosted Zombie	1	2	9.0 ?	0.46	1.3 ?	0	0	258	R	200	300
Terrier ASROC Cajun	Terrier	NOTS	-	Boosted Zombie	1	3	11.0 ?	0.46	1.4 ?	0	0	258	R	100	300
Terrier Recruit	Terrier	WFC	-	Boosted Zombie	1	2	5.0 ?	0.46	1.0 ?	0	0	258	R	10	300
Coyote	Terrier	OSCC	-	Boosted Zombie	1	1	9.5	0.46	1.0 ?	0	0	258	R	1	300
STAR	Terrier	OSCC	-	Boosted Zombie	1	1	4.0 ?	0.11 ?	0.0	0	0	-	Y	90	300
Black Brant IX	Terrier	BAL	-	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant IX	Terrier	BAL	2	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant IXB	Terrier	BAL	-	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant IX	Terrier	BAL	3	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant IX	Terrier	BAL	4	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant 9BM1	Terrier	BAL	-	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Black Brant 9CM1	Terrier	BAL	-	Boosted Zombie	1	2	12.2	0.46	2.2	0	0	257	R	300	300
Black Brant X	Terrier	BAL	-	Boosted Zombie	1	3	14.5	0.46	2.6	0	0	257	R	900	300
Black Brant XB	Terrier	BAL	-	Boosted Zombie	1	3	14.5	0.46	2.6	0	0	257	R	900	300
Black Brant 10CM1	Terrier	BAL	-	Boosted Zombie	1	3	14.5	0.46	2.6	0	0	257	R	900	300
SRAM	SRAM	BOUT	-	Boosted Zombie	1	1	4.3	0.46	1.0	0	0	-	C	10	180
ASAT	SRAM	LTV	-	Boosted Zombie	1	2	5.4	0.46	1.2	0	0	-	M	1000	180
Farside	Recruit	AENUT	-	Boosted Zombie	1	4	7.3	0.46 ?	0.9	0	0	667	R	4500	180
NATIV	RTV	NAAD	-	Boosted Zombie	1	1	4.1	0.46	0.6	0	0	12	T	19	50
MR-12	MR-12	TAIFUN	-	Boosted Zombie	1	1	8.8	0.45	1.4	0	0	100	R	150	50
MR-20	MR-12	TAIFUN	-	Boosted Zombie	1	1	9.0	0.45	1.6	0	0	100	R	240	50
MR-25	MR-12	TAIFUN	-	Boosted Zombie	1	1	9.0	0.45	1.6	0	0	100	R	240	50
MR-30	MR-12	TAIFUN	-	Boosted Zombie	1	1	8.0	0.45	1.6	0	0	100	R	300	50
MN-300	MR-12	TAIFUN	-	MR-30	1	1	8.0	0.45	1.6	0	0	100	R	300	50
Tianying-3C	Tianying	CSSAR	-	MR-30	1	1	6.4	0.45	1.1	0	0	-	R	200	50
Tianying-3E	Tianying	CSSAR	-	MR-30	1	1	6.4	0.45	1.1	0	0	-	R	200	50
Tianying-3F	Tianying	CSSAR	-	MR-30	1	2	9.1	0.45	1.6	0	0	-	R	320	50
Huayi-1	Tianying	HUAYI	-	MR-30	1	2	9.1	0.45	1.6	0	0	-	R	320	50
T-7	T-7	SIMED	-	MR-30	0	1	9.6	0.45	1.1	0	0	-	W	60	50
T-7A	T-7	SIMED	-	MR-30	0	1	10.3	0.45	1.1	0	0	-	R	115	50
T-7A-S2	T-7	SIMED	-	MR-30	0	1	10.0	0.45	1.3	0	0	-	R	100	50
T-7A-S	T-7	SIMED	-	MR-30	0	1	10.3	0.45	1.2	0	0	-	R	100	50
T-7M	T-7	SIMED	-	MR-30	0	1	5.3	0.45	0.2	0	0	2	T	10	50
T-7/GF-01A	T-7	SIMED	-	MR-30	0	2	10.0 ?	0.45	1.5 ?	0	0	-	R	311	50
Black Brant I	BB5	CARDE	-	MR-30	1	1	8.4 ?	0.44	1.0 ?	0	0	111	R	160	50
Black Brant II	BB5	CARDE	-	MR-30	1	1	8.4	0.44	1.0 ?	0	0	111	R	200	50
Black Brant IIB	BB5	CARDE	-	MR-30	1	1	8.4	0.44	1.0 ?	0	0	89	R	200	50
Black Brant IVA	BB5	BAL	-	MR-30	1	2	12.0	0.44	1.4	0	0	111	R	850	50
Black Brant IVB	BB5	BAL	-	MR-30	1	2	12.0	0.44	1.4	0	0	111	R	950	50
Black Brant VA	BB5	BAL	-	MR-30	1	1	8.3	0.44	1.1	0	0	111	R	170	50
Black Brant VB	BB5	BAL	-	MR-30	1	1	8.3	0.44	1.2	0	0	68	R	400	50
Black Brant VC	BB5	BAL	-	MR-30	1	1	8.3	0.44	1.3	0	0	68	R	350	50
Black Brant 8B	Nike	BAL	-	MR-30	1	2	11.9	0.44	2.0	0	0	196	R	340	50
Black Brant 8C	Nike	BAL	-	MR-30	1	2	11.9	0.44	2.0	0	0	196	R	340	50
Skylark	Raven	RAE	1	MR-30	1	1	7.5	0.44	1.1	0	0	44	R	150	50
Skylark	Raven	RAE	2	MR-30	1	1	7.5	0.44	1.1	0	0	44	R	150	50
Skylark	Raven	RAE	5	MR-30	1	1	7.5	0.44	1.1	0	0	44	R	110	50
Skylark	Raven	RAE	7	MR-30	1	1	7.5	0.44	1.1	0	0	44	R	140	50
Skylark 1	Raven	BAC	-	MR-30	1	1	10.8	0.44	1.2	0	0	50	R	125	50
Skylark	Raven	RAE	2C	MR-30	1	2	9.1	0.44	1.4	0	0	80	R	200	50
Skylark	Raven	RAE	5C	MR-30	1	2	9.1	0.44	1.4	0	0	80	R	200	50
Skylark	Raven	RAE	7C	MR-30	1	2	9.1	0.44	1.4	0	0	80	R	200	50
Skylark 2	Raven	BAC	-	MR-30	1	2	12.7	0.44	1.5	0	0	80	R	190	50
Skylark 2 AC	Raven	BAC	-	MR-30	1	2	12.7	0.44	1.5	0	0	80	R	190	50
Skylark 3	Raven	BAC	-	MR-30	1	2	12.7	0.44	1.7	0	0	80	R	210	50
Skylark 3 AC	Raven	BAC	-	MR-30	1	2	12.7	0.44	1.7	0	0	80	R	210	50
Skylark 4	Raven	BAC	-	MR-30	1	2	13.2	0.44	1.9	0	0	191	R	240	50
Skylark 4 AC	Raven	BAC	-	MR-30	1	2	13.2	0.44	1.9	0	0	191	R	240	50
Skylark 6	Raven	BAC	-	MR-30	1	2	13.2	0.44	1.9	0	0	191	R	270	50
Skylark 6 AC	Raven	BAC	-	MR-30	1	2	13.2	0.44	1.9	0	0	191	R	270	50
Skylark 7	Raven	BAC	-	MR-30	1	2	12.2	0.44	2.1	0	0	191	R	270	50
Skylark 7 AC	Raven	BAC	-	MR-30	1	2	12.2	0.44	2.0 ?	0	0	191	R	270	50
Skylark 12	Raven	BAC	-	MR-30	1	3	13.0 ?	0.44	2.1 ?	0	0	191	R	750	50
Skylark 12 AC	Raven	BAC	-	MR-30	1	3	13.0 ?	0.44	2.1 ?	0	0	191	R	830	50
Skylark 10A	Raven	RAE	-	MR-30	1	2	6.0 ?	0.44	0.8	0	0	130	R	270	50
Jaguar 1	Raven	RAE/WRE	-	MR-30	1	3	11.9	0.44	1.7	0	0	-	Q	24	50
Jabiru	Raven	RAE/WRE	-	MR-30	1	3	11.9	0.44	1.7	0	0	-	Q	24	50
Jaguar 2	Raven	RAE/WRE	-	MR-30	1	3	12.9	0.44	2.2	0	0	-	Q	30	50
Jabiru 2	Raven	RAE/WRE	-	MR-30	1	3	12.9	0.44	2.2	0	0	-	Q	30	50
Jabiru 3	Raven	RAE/WRE	-	MR-30	1	2	12.7 ?	0.44	2.0 ?	0	0	-	Q	30	50
Rook	Raven	RAE	-	MR-30	1	1	5.0 ?	0.44	1.2 ?	0	0	-	Q	20	50
Rook IIIA	Raven	RAE	-	MR-30	1	1	5.0 ?	0.44	1.2 ?	0	0	-	Q	20	50
Leopard	Raven	RAE	-	MR-30	1	2	6.0 ?	0.44	1.5 ?	0	0	-	Q	20	50
Blue Water	Raven	EELEC	-	MR-30	1	2	7.6	0.44	1.4	0	0	196	M	20	50
PrSM	PrSM	USA	-	MR-30	1	1	4.0	0.43	1.0 ?	0	0	-	M	100	50
RX-420	RX-420	LAPAN	-	MR-30	1	1	6.2	0.42	1.0 ?	0	0	-	R	50	50
Kappa 7	K420	ISAS	-	MR-30	1	1	6.7	0.42	1.2	0	0	-	T	50	50
Kappa 8	K420	ISAS	-	MR-30	1	2	10.9	0.42	1.5	0	0	-	R	200	50
Kappa 9M	K420	ISAS	-	MR-30	1	2	11.1	0.42	1.5	0	0	-	R	350	50
Kappa 9L	K420	ISAS	-	MR-30	1	3	12.5	0.42	1.6	0	0	-	R	350	50
Kappa 10	K420	ISAS	-	MR-30	1	2	9.8	0.42	1.8	0	0	-	R	250	50
Kappa 10C	K420	ISAS	-	MR-30	1	2	10.0 ?	0.42	-	0	0	-	R	250	50
Kappa 10S	K420	ISAS	-	MR-30	1	3	10.0 ?	0.42	-	0	0	-	R	750	50
Nike	Nike	ABL	-	MR-30	1	1	6.0	0.42	0.7	0	0	217	A	23	50

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Nike-480	Nike	DACC/AJ	-	MR-30	1	2	6.0 ?	0.42	0.7	0	0	217	A	20	50
Nike-482	Nike	DACC/AJ	-	MR-30	1	2	6.0 ?	0.42	0.7	0	0	217	A	20	50
Nike-484	Nike	DACC/AJ	-	MR-30	1	2	6.0 ?	0.42	0.7	0	0	217	A	20	50
Nike-490	Nike	DACC/AJ	-	MR-30	1	2	6.0 ?	0.42	0.7	0	0	217	A	20	50
Nike Ajax	Nike	WELEC	-	MR-30	1	2	10.8	0.42	1.1	0	0	217	A	6	50
Nike X201 Ajax	Nike	WELEC	-	MR-30	1	2	10.8	0.42	1.1	0	0	217	A	6	50
Nike Nike	Nike	AFCRL?	-	MR-30	1	2	11.9	0.42	1.4	0	0	217	T	50	50
Nike Cree	Nike	AFCRL?	-	MR-30	1	3	14.0 ?	0.42	1.4	0	0	217	T	50	50
Nike Recruit	Nike	PARD	-	MR-30	1	2	8.0 ?	0.42	1.1	0	0	217	Q	5	50
Nike Tomahawk	Nike	SAND	-	MR-30	1	2	10.8	0.42	1.0	0	0	217	R	270	50
Nike Tomahawk	Nike	SAND	9	MR-30	1	2	10.8	0.42	1.0	0	0	217	R	270	50
Nike Tomahawk	Nike	SAND	12	MR-30	1	2	10.8	0.42	1.0	0	0	217	R	270	50
Nike Tomahawk	Nike	SAND	9a	MR-30	1	2	10.8	0.42	1.0	0	0	217	R	270	50
Nike Deacon	Nike	PARD	-	MR-30	1	2	7.8	0.42	-	0	0	217	R	100	50
Nike Deacon	Nike	PARD	1	MR-30	1	2	7.8	0.42	-	0	0	265	R	50	50
Nike Nike HPAG	Nike	PARD	-	MR-30	1	3	9.0 ?	0.42	-	0	0	217	Q	10	50
Nike Nike T40	Nike	PARD	-	MR-30	1	3	9.0 ?	0.42	-	0	0	217	Q	10	50
Nike T40 T55	Nike	PARD	-	MR-30	1	3	9.0 ?	0.42	-	0	0	217	Q	10	50
Nike Nike T40 T55	Nike	PARD	-	MR-30	1	4	9.0 ?	0.42	-	0	0	217	R	100	50
Nike Nike Tri-Deacon T40	Nike	PARD	-	MR-30	1	4	9.0 ?	0.42	-	0	0	217	Q	10	50
Nike Nike Deacon	Nike	PARD	-	MR-30	1	3	9.0 ?	0.42	-	0	0	217	Q	10	50
Mach 5 TV	Nike	SAND	-	MR-30	1	2	7.0 ?	0.42	-	0	0	217	Q	16	50
Nike Yardbird	Nike	UMI	-	MR-30	1	2	8.1	0.42	-	0	0	217	R	120	50
Nike Cajun	Nike	UMI	-	MR-30	1	2	8.1	0.42	0.7	0	0	217	R	120	50
Nike Nike Cajun	Nike	UMI	-	MR-30	1	3	8.1	0.42	0.7	0	0	217	R	120	50
Nike Apache	Nike	SAND	-	MR-30	1	2	8.6	0.42	0.8	0	0	217	R	200	50
Nike Orion	Nike	NASA	-	MR-30	1	2	9.0	0.42	1.1	0	0	217	R	140	50
Nike Improved Orion	Nike	NASA	-	MR-30	1	2	9.0	0.42	1.1	0	0	217	R	140	50
Nike Hawk	Nike	NASA	-	MR-30	1	2	9.0 ?	0.42	1.1 ?	0	0	217	R	160	50
Nike Malemute	Nike	NASA	-	MR-30	1	2	8.6	0.42	1.0 ?	0	0	217	R	500	50
Nike Asp	Nike	COOP	-	MR-30	1	2	7.9	0.42	0.7	0	0	217	R	220	50
Nike Hydac	Nike	SDCO	-	MR-30	1	2	9.1	0.42	0.9	0	0	217	R	150	50
Nike Iroquois	Nike	AJSP	-	MR-30	1	2	8.0 ?	0.42	0.7	0	0	217	R	290	50
Nike Javelin	Nike	AFCRL	-	MR-30	1	2	8.2	0.42	0.9	0	0	217	R	130	50
Nike Viper I	Nike	SAND?	-	MR-30	1	2	8.0 ?	0.42	0.6 ?	0	0	217	R	80	50
Terrier Viper I	Terrier	NOTS	-	MR-30	1	2	8.0 ?	0.42	0.6 ?	0	0	217	R	80	50
Nike Nike Recruit	Nike	LARC	-	MR-30	1	3	9.0 ?	0.42	-	0	0	217	R	120	50
Aerobee 170A	Nike	AJGC	-	MR-30	1	2	12.4	0.42	1.5	0	0	217	R	200	50
Aerobee 170B	Nike	AJGC	-	MR-30	1	2	12.4	0.42	1.5	0	0	225	R	200	50
Aerobee 170	Nike	AJGC	-	MR-30	1	2	12.6	0.42	1.4	0	0	225	R	200	50
Aerobee 200A	Nike	AJGC	-	MR-30	1	2	12.6	0.42	1.6 ?	0	0	225	R	250	50
Aerobee 200	Nike	AJGC	-	MR-30	1	2	12.6	0.42	1.6 ?	0	0	225	R	250	50
Aerobee 350	Nike	AJGC	-	MR-30	1	2	15.9	0.42	3.6	0	0	217	R	450	50
Astrobee 200	Nike	AJSP	-	MR-30	1	2	6.3	0.42	0.8	0	0	161	R	350	50
AAD	AAD	HAL	-	MR-30	1	1	7.5	0.42	1.3	0	0	-	B	40	350
AAD AD-1	AAD	HAL	-	MR-30	1	2	10.0 ?	0.42	1.3	0	0	-	B	150	350
Prahaar	AAD	HAL	-	MR-30	1	1	7.5	0.42	1.3	0	0	-	B	40	350
KSR-I	KSR	KARI	-	MR-30	1	1	6.7	0.42	1.2	0	0	86	T	50	350
KSR-II	KSR	KARI	-	MR-30	1	2	6.7	0.42	2.0	0	0	298	R	130	350
Aeolus	LongTom	WRE	-	MR-30	1	2	6.6	0.41	0.5	0	0	80	T	50	350
Malemute	Malemute	SAND	-	MR-30	1	1	2.4	0.41	0.8 ?	0	0	57	R	165	350
Improved Malemute	Malemute	GSFC	-	MR-30	1	1	2.4	0.41	0.8 ?	0	0	57	R	165	350
PAAT	Malemute	SMDC	-	MR-30	1	1	2.4	0.41	0.8 ?	0	0	57	R	165	350
IM/IO	Malemute	DLR	-	MR-30	1	2	5.0 ?	0.41	-	0	0	-	R	165	350
IM/IM	Malemute	DLR	-	MR-30	1	2	5.0 ?	0.41	-	0	0	-	R	165	350
IM/VS-30	Malemute	DLR	-	MR-30	1	2	5.0 ?	0.41	-	0	0	-	R	165	350
Martlet 1	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	150	350
Martlet 2	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	150	350
Martlet 2C	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	150	350
Martlet 3A	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	150	350
Martlet 3B	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	150	350
Gun Projectile 16-inch	Gun16	SRCI	-	MR-30	1	1	1.7	0.41	0.2	0	0	-	R	100	350
Zenit	Zenith	CONTR	-	MR-30	1	1	4.6	0.42	0.7	0	0	45	R	140	350
Zenit	Zenith	CONTR	C	MR-30	0	1	5.9	0.42	0.9	0	0	45	R	190	350
Daniel	Daniel	ONERA	-	MR-30	1	3	8.4	0.40	1.0 ?	0	0	-	R	130	350
Doorknob	Lacrosse	SAND	1	MR-30	1	1	3.6	0.40	0.5	0	0	168	T	24	350
Doorknob	Lacrosse	SAND	2	MR-30	1	2	5.7	0.40	0.9	0	0	168	R	84	350
Nike-46	Nike-46	DAC/AJ	-	MR-30	1	2	6.0 ?	0.40 ?	0.7	0	0	400	A	10	350
Nike-47	Nike-46	DAC/AJ	-	MR-30	1	2	6.0 ?	0.40 ?	0.7	0	0	400	A	10	350
Nike-481	Nike-46	DAC/AJ	-	MR-30	1	2	6.0 ?	0.42	0.7	0	0	217	A	20	350
Tien Kung 3	NSPO	NCSIST	-	MR-30	1	1	5.5	0.40	0.9	0	0	-	A	80	350
KN-25	KN-25	KP	-	MR-30	1	1	5.0 ?	0.40 ?	2.0 ?	0	0	-	R	100	350
STIG-A	STIG	ARMAD	-	MR-30	1	1	9.8	0.39	0.7	0	0	22	R	80	350

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
ISRO-CES	ISRO-CES	ISRO	-	MR-30	1	1	6.0 ?	0.40 ?	2.0 ?	0	0	-	R	2	350
Weka	Duqm	NASCOM	-	MR-30	1	1	6.5	0.40 ?	0.1	0	0	-	R	140	350
K-200	Duqm	SNOW	-	MR-30	1	1	6.5	0.40 ?	0.1	0	0	-	R	140	350
Astrobee F	AstrobeeF	AJSP	-	MR-30	1	1	11.5	0.38	1.5	0	0	178	R	375	350
Astrobee 500	Genie	AJSP	-	MR-30	1	3	7.8	0.38	0.9	0	0	161	R	1000	350
Paiute Tomahawk	Genie	THKE	-	MR-30	1	2	5.8	0.38	0.6	0	0	140	R	350	350
Ute Tomahawk	Genie	THKE	-	MR-30	1	2	5.2	0.38	0.5	0	0	60	R	230	350
Paiute Apache	Genie	THKE	-	MR-30	1	2	4.8 ?	0.38	0.6	0	0	140	R	200	350
Ute Apache	Genie	THKE	-	MR-30	1	2	4.2 ?	0.38	0.5	0	0	60	R	200	350
ALARR	Genie	AFIT?	-	MR-30	0	1	3.1	0.38 ?	0.5 ?	0	0	-	R	100	350
Genie	Genie	SAND	-	MR-30	1	1	3.1	0.38 ?	0.5 ?	0	0	-	R	100	350
Genie Genie	Genie	SAND	-	MR-30	1	2	3.1	0.38 ?	0.5 ?	0	0	-	R	100	350
F89J/Genie	Genie	SAND	-	MR-30	0	1	3.1	0.38 ?	0.5 ?	0	0	-	R	100	350
Jaguar	Recruit	WFF	-	MR-30	0	3	8.8	0.38	0.8	0	0	440	R	800	350
Aerobee RTV-A-1a	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-A-1	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-A-1b	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-A-1c	Aerobee	AJ	-	MR-30	1	1	7.5	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-N-10a	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-N-10	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-N-10b	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-N-10c	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee RTV-N-8	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee XASR-SC-1	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee XASR-SC-2	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee AJ10-25	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee AJ10-27	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee AJ10-34	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee 100	AerobeeB	AJ	-	MR-30	1	2	7.8	0.38	0.7	0	0	18	R	100	350
Seabee	AerobeeB	AJ	-	MR-30	1	1	7.0	0.38	0.7	0	0	18	R	1	350
Aerobee	AerobeeB	AJ	-	MR-30	1	2	7.9	0.38	0.7	0	0	18	R	130	350
Aerobee Hi	AerobeeB	AJ	-	MR-30	1	2	9.5	0.38	0.9	0	0	18	R	270	350
Aerobee 150	AerobeeB	AJGC	-	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150A	AerobeeB	AJGC	-	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150 MI	AerobeeB	AJGC	-	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150 MI	AerobeeB	AJGC	20	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150 MI	AerobeeB	AJGC	17	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150A MII	AerobeeB	AJGC	-	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 150 MII	AerobeeB	AJGC	20	MR-30	1	2	9.3	0.38	0.9	0	0	18	R	270	350
Aerobee 300	AerobeeB	AJGC	-	MR-30	1	3	9.9	0.38	0.9	0	0	18	R	300	350
Aerobee 300A	AerobeeB	AJGC	-	MR-30	1	3	9.9	0.38	0.9	0	0	18	R	300	350
Vikram-S	Vikram-S	SKYRT	-	MR-30	1	1	6.0	0.38	0.5	0	0	70	R	100	350
Kavoshgar M5	Kavoshgar	IR	-	MR-30	1	1	6.0 ?	0.36	0.9 ?	0	0	-	R	150	350
Nazeat 6H	Kavoshgar	IR	-	MR-30	1	1	6.3	0.36	0.9	0	0	-	R	150	350
Nucleus	Nucleus	NAMMO	-	MR-30	1	1	9.0	0.36	0.1	0	0	30	R	100	350
LS-A	LS-C	MHITO?	-	MR-30	1	2	7.5	0.35	0.8	0	0	60	R	150	350
Meteor-2H	Meteor2	PAI	-	MR-30	1	1	4.5	0.35	0.4	0	0	24	W	68	350
Meteor-2K	Meteor2	PAI	-	MR-30	0	1	4.3	0.35	0.4	0	0	52	R	90	350
Aerobee 75	Orion	AJ	-	MR-30	1	1	6.0 ?	0.35	0.4 ?	0	0	7	R	80	350
Improved Orion	Orion	WFF	-	MR-30	1	1	5.6	0.35	0.4	0	0	7	R	85	350
Orion	Orion	WFF	-	MR-30	1	1	5.6	0.35	0.4	0	0	7	R	85	350
Polaris FTV-4	10KS2500	LMSC	-	MR-30	1	1	2.9	0.35 ?	0.1 ?	0	0	11	R	10	350
Iraqi Gun Projectile	IraqGun350	SRCI	-	MR-30	1	1	1.5	0.35	0.1	0	0	-	R	100	350
THAAD	THAAD	LMPCO	-	MR-30	1	1	6.2	0.34	0.9	0	0	-	B	100	350
THAAD	THAAD	LMCO	1	MR-30	1	1	6.2	0.34	0.9	0	0	-	B	100	350
SM-1MR	Standard	GDPO	-	MR-30	1	1	4.5	0.34	0.6	0	0	-	A	20	350
SM-2MR	Standard	USN	-	MR-30	1	1	5.0 ?	0.35	1.3	0	0	-	A	30	350
Lynx	Standard	USN	-	MR-30	1	1	5.0 ?	0.35	1.3	0	0	-	A	30	350
Kappa 4	Kappa4	ISAS	-	MR-30	1	2	5.9	0.33	0.2	0	0	105	R	80	350
Kappa 5	Kappa4	ISAS	-	MR-30	1	2	5.9	0.33	0.2	0	0	105	R	80	350
Sandhawk	Sandhawk	SAND	-	MR-30	1	1	5.1	0.33	0.8	0	0	80	R	200	350
Sandhawk Tomahawk	Sandhawk	SAND	-	MR-30	1	2	9.0 ?	0.33	1.0 ?	0	0	80	R	550	350
Gradicom 1	Gradicom	CITED	-	MR-30	1	1	4.5	0.32	0.5	0	0	-	T	40	350
Gradicom 2	Gradicom	CITED	-	MR-30	1	2	7.7	0.32	0.9	0	0	-	T	100	350
RX-320	RX-320	LAPAN	-	MR-30	1	1	4.7	0.32	0.5	0	0	-	T	70	350
BT-310	S-310	ISAS	-	MR-30	1	1	6.0 ?	0.31	0.7	0	0	-	R	5	350
S-310	S-310	ISAS	-	MR-30	1	1	6.8	0.31	0.7	0	0	-	R	190	350
Belier	Belier	AESPC	-	MR-30	1	1	3.8	0.31	0.4	0	0	-	R	109	350
Belier III	Belier	AESPC	-	MR-30	1	1	3.8	0.31	0.4	0	0	-	R	109	350
RH-300	Belier	VSSC	-	MR-30	1	1	4.1	0.31	0.3	0	0	33	R	150	350
RH-300 Mk II	Belier	VSSC	-	MR-30	1	1	5.9	0.31	0.5	0	0	39	R	150	350
SO-300-200	Belier	VSSC	-	MR-30	0	1	6.0 ?	0.31	0.5 ?	0	0	38	R	300	350
Iris	Iris	ATLR/NRL	-	MR-30	0	1	5.0	0.31	0.6	0	0	17	R	250	350

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Hydra-Iris	Iris	NWC/LLNL	-	MR-30	0	1	6.0	0.31	0.8	0	0	17	R	300	350
S-300	S-300	ISAS	-	MR-30	1	1	6.0 ?	0.30	0.6 ?	0	0	-	R	160	350
Bullpup Apache	Bullpup	THKE	-	MR-30	1	2	7.0 ?	0.30 ?	0.4 ?	0	0	111	T	50	350
Bullpup Cajun	Bullpup	THKE	-	MR-30	1	2	7.0 ?	0.30 ?	0.4 ?	0	0	111	T	41	350
FTI	FTI	AVIB	-	MR-30	1	1	5.0	0.30	0.2 ?	0	0	-	R	60	350
WAC A	WAC	JPL/DAC	-	MR-30	0	1	7.3	0.30	0.3	0	0	-	T	75	350
WAC B	WAC	JPL/DAC	-	MR-30	0	1	7.3	0.30	0.3	0	0	-	T	75	350
WAC	WAC	JPL/DAC	-	MR-30	0	1	7.3	0.30	0.3	0	0	-	T	10	350
Tiny Tim	WAC	JPL/DAC	-	MR-30	1	1	2.4	0.30	0.1	0	0	-	T	10	350
Sonda 2	Sonda	IAE	-	MR-30	1	1	5.6	0.30	0.4	0	0	36	R	180	350
VLS-R2	Sonda	IAE	-	MR-30	0	1	4.3 ?	0.30	1.0 ?	0	0	120	T	50	350
Centaure	Venus	SUD	-	Centaure 1	1	2	5.9	0.28	0.6	0	0	44	R	130	350
Centaure 1	Venus	SUD	-	Centaure 1	1	2	5.9	0.28	0.6	0	0	44	R	130	350
Centaure 2A	Venus	SUD	-	Centaure 1	1	2	5.9	0.28	0.6	0	0	44	R	146	350
Centaure 2B	Venus	SUD	-	Centaure 1	1	2	6.3	0.28	0.5	0	0	44	R	146	350
Centaure 2C	Venus	SUD	-	Centaure 1	1	2	5.9	0.28	0.6	0	0	44	R	146	350
RH-300B	Venus	VSSC	-	Centaure 1	1	2	6.5	0.28	0.6	0	0	38	R	0	350
Tauro	Rigel	IIAE	-	Centaure 1	1	2	7.7	0.28	1.2	0	0	-	R	150	350
Rigel	Rigel	IIAE	-	Centaure 1	1	2	6.3	0.28	1.0 ?	0	0	-	R	310	350
Canopus 2	Rigel	IIAE	-	Centaure 1	1	1	4.0 ?	0.28	0.3	0	0	-	R	150	350
Canopus 1	Rigel	IIAE	-	Centaure 1	1	1	4.0 ?	0.28	0.3	0	0	-	R	150	350
Centenario	Rigel	IIAE	-	Centaure 1	1	1	4.6	0.28	0.3	0	0	-	R	50	350
Castor (A)	Rigel	IIAE	-	Centaure 1	1	2	7.0 ?	0.28 ?	0.3	0	0	-	R	400	350
SpaceLoft XL	SpaceLoft	UPAE	-	Centaure 1	1	1	6.1	0.27	0.4	0	0	-	R	100	350
Spyder	SpaceLoft	UPAE	-	Centaure 1	1	2	8.0 ?	0.27 ?	0.4	0	0	-	R	100	350
Black Brant III	BB3	BAL	-	Centaure 1	1	1	5.5	0.26	0.3	0	0	49	R	170	350
Black Brant IIIB	BB3	BAL	-	Centaure 1	1	1	5.5	0.26	0.3	0	0	44	R	220	350
N2ORTH	Amateur	HYEND	-	Centaure 1	1	1	7.8	0.26	0.2	0	0	10	R	60	350
Gosling-Lobster	Gosling	WRE	-	Centaure 1	1	2	5.0 ?	0.26	0.3 ?	0	0	-	R	40	350
INTA-255	Gosling	INTA	-	Centaure 1	0	1	6.1	0.26	0.3	0	0	22	R	150	350
HAD	Gosling	WRE	-	Centaure 1	1	2	6.1	0.26	0.3	0	0	130	R	130	350
INTA-300	Gosling	INTA	-	Centaure 1	1	2	7.3	0.26	0.5	0	0	137	R	250	350
INTA-300B	Gosling	INTA	-	Centaure 1	1	2	7.3 ?	0.26	0.5 ?	0	0	137	R	250	350
Fulmar	Gosling	BAJUK	-	Centaure 1	1	2	7.5	0.26	0.5 ?	0	0	137	R	250	350
Aero High	Gosling	WRE	-	Centaure 1	1	2	6.8	0.26	0.4	0	0	99	R	200	350
Cockatoo	Gosling	WRE	-	Centaure 1	1	2	6.2	0.26	0.3	0	0	111	R	140	350
Cockatoo Mk 2	Gosling	WRE	-	Centaure 1	1	2	6.3	0.26	0.3	0	0	111	R	140	350
Cockatoo Mk 3	Gosling	WRE	-	Centaure 1	1	2	6.3	0.26	0.3	0	0	99	R	140	350
Cockatoo Mk 4	Gosling	WRE	-	Centaure 1	1	2	6.3	0.26	0.3	0	0	99	R	140	350
Corella	Gosling	WRE	-	Centaure 1	1	2	8.0	0.26	0.4	0	0	99	R	220	350
Hybrid Test Rocket	HTR	NAMMO	-	Centaure 1	1	1	10.6	0.25	0.4	0	0	30	T	30	350
Evo Space	EvoSpace	EVOL	-	Centaure 1	1	1	6.7	0.25	0.4	0	0	-	T	120	350
Private A	PrivateA	JPL	-	Centaure 1	0	1	3.4	0.25	0.3	0	0	98	R	1	350
Private F	PrivateA	JPL	-	Centaure 1	0	1	3.4	0.25	0.3	0	0	98	R	1	350
Rhumi	Rhumi	SZI	-	Centaure 1	1	1	6.0	0.25	0.2	0	0	-	C	2	350
Forschungsflugkorper	FFK	ERNO	-	Centaure 1	1	1	4.0 ?	0.25 ?	0.3 ?	0	0	-	R	120	350
CSXT	CSXT	CSXT	-	Centaure 1	1	1	6.5	0.25	0.3 ?	0	0	-	R	100	350
K245	K250	ISAS	-	Centaure 1	1	1	5.6	0.25	0.3	0	0	-	T	10	350
Kappa 6	K250	ISAS	-	Centaure 1	1	2	5.6	0.25	0.3	0	0	-	T	60	350
Kappa 6H	K250	ISAS	-	Centaure 1	1	2	6.9	0.25	0.3	0	0	-	R	85	350
Kappa 8L	K250	ISAS	-	Centaure 1	1	2	7.3	0.25	0.3	0	0	-	R	200	350
S-250	K250	ISAS	-	Centaure 1	1	1	5.0 ?	0.25	0.2 ?	0	0	-	T	40	350
CB-250/RH-125	CB-250	VSSC	-	Centaure 1	0	1	3.5 ?	0.25	0.1	0	0	8	W	30	350
CB-250/LPR-006	CB-250	VSSC	-	Centaure 1	0	1	3.5 ?	0.25	0.1	0	0	8	W	30	350
NAL-25	STA	STA	-	Centaure 1	1	1	-	0.25	0.1	0	0	-	T	20	350
M-100	M-100	TAIFUN?	-	Centaure 1	1	2	8.3	0.25	0.5	0	0	-	Y	90	350
M-100 (A-1)	M-100	TAIFUN?	-	Centaure 1	1	2	8.3	0.25	0.5	0	0	-	Y	90	350
M-100A	M-100	TAIFUN?	-	Centaure 1	1	2	8.3	0.25	0.5	0	0	-	Y	90	350
M-100B	M-100	TAIFUN?	-	Centaure 1	1	2	8.3	0.25	0.5	0	0	-	Y	90	350
RX-250-LPN	RX-250	LAPAN	-	Centaure 1	1	1	5.3	0.25	0.3	0	0	52	T	70	350
D-Region Tomahawk	Tomahawk	SAND	-	Centaure 1	1	1	5.0 ?	0.23	0.3 ?	0	0	44	R	120	350
ILR-33 Bursztyn 2K	Bursztyn	PAI	-	Centaure 1	0	1	5.0	0.23	0.3 ?	0	0	-	R	100	350
Tomahawk	Tomahawk	SAND	-	Centaure 1	1	1	5.0	0.23	0.3	0	0	44	R	80	350
Mesquito	MLRS	WFF	-	Centaure 1	1	1	5.0 ?	0.23	0.2 ?	0	0	-	R	60	350
Javelin 3	Javelin	SDCO	-	Centaure 1	1	1	4.5	0.23	0.2	0	0	86	R	60	350
Recruit	Recruit	PARD	-	Centaure 1	1	1	3.0 ?	0.23	0.3 ?	0	0	156	R	10	350
Recruit T55	Recruit	PARD	-	Centaure 1	0	2	5.0 ?	0.23	0.4 ?	0	0	156	R	10	350
MX-2227	AeroHTV	AEROPH	-	Centaure 1	1	2	3.9	0.23	0.1	0	0	-	R	10	350
HTV	AeroHTV	AEROPH	-	Centaure 1	1	2	3.9	0.23	0.1	0	0	-	R	10	350
Kappa 2	K250	ISAS	-	Centaure 1	1	2	5.0	0.22	0.2	0	0	-	T	20	350
Kappa 3	K250	ISAS	-	Centaure 1	1	2	5.0	0.22	0.2	0	0	-	T	40	350
S-210	S-210	NISST	-	Centaure 1	1	1	5.2	0.21	0.3	0	0	-	R	110	350
Orion-2	IIAE.Orion	IAE	-	Centaure 1	1	1	4.0	0.21	0.1	0	0	-	R	95	350

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Orion-1	IIAE.Orion	IAE	-	Centaure 1	1	1	4.0	0.21	0.1	0	0	-	R	95	350
Belenos	Belenos	CFTHB	-	Centaure 1	1	2	4.9	0.21	0.1	0	0	-	R	116	350
Belisama	Belenos	CFTHB	-	Centaure 1	1	2	4.6	0.21	0.1	0	0	-	R	92	350
Grannos	Belenos	CFTHB	-	Centaure 1	1	2	4.9	0.21	0.2	0	0	-	R	143	350
TT-210	TT-210	NASDA	-	Centaure 1	1	1	6.0 ?	0.21	0.2 ?	0	0	-	R	100	350
TT-200	TT-210	NASDA	-	Centaure 1	1	1	6.0 ?	0.20	0.2 ?	0	0	-	R	100	350
RH-200	RH-200	VSSC	-	Centaure 1	1	2	3.6	0.20	0.1	0	0	17	R	80	350
RH-200SV	RH-200	VSSC	-	Centaure 1	1	1	3.0 ?	0.20	0.1	0	0	17	R	80	350
MMR-06	MMR-06	TAIFUN?	-	Centaure 1	1	1	3.5	0.20	0.1	0	0	8	W	60	350
X-17 HTV	Nike	LVN	1	Centaure 1	1	3	5.0 ?	0.20	0.1 ?	0	0	209	Q	10	350
X-17 HTV	Nike	LVN	-	Centaure 1	1	3	5.0 ?	0.20	0.1 ?	0	0	209	Q	10	350
X-17 QTV	T-40	LVN	-	Centaure 1	1	3	2.5 ?	0.20	0.1 ?	0	0	13	Q	10	350
Kingfisher	Kingfisher	TMINUS	-	Centaure 1	1	1	4.0 ?	0.20	0.0	0	0	0	Y	120	350
Barracuda	Kingfisher	TMINUS	-	Centaure 1	1	1	4.0 ?	0.20	0.0	0	0	0	Y	120	350
Traveler	Traveler	USCLA	-	Centaure 1	1	1	4.0	0.20	0.1	0	0	-	R	0	350
Aftershock	Traveler	USCLA	-	Centaure 1	1	1	3.8	0.20	0.1	0	0	19	R	0	350
Cirrus I	Cirrus	DRG	-	Centaure 1	1	2	4.1	0.20	0.1 ?	0	0	5	R	35	350
Cirrus II	Cirrus	DRG	-	Centaure 1	1	2	4.1	0.20	0.1 ?	0	0	5	R	35	350
Stratos II+	Stratos2	DARE	-	Centaure 1	1	1	7.0	0.20	0.2	0	0	8	R	50	350
Stratos III	Stratos2	DARE	-	Centaure 1	1	1	7.0	0.20	0.2	0	0	8	R	50	350
Proson M1	Proson	CITEF	-	Centaure 1	1	2	3.1	0.20	0.1	0	0	-	R	50	350
Sparoair I	Sparrow	NMC	-	Centaure 1	0	2	3.7	0.20	0.1	0	0	35	R	100	350
Sparoair II	Sparrow	NMC	-	Centaure 1	0	2	3.9	0.20	0.1	0	0	35	R	100	350
Sparoair III	Sparrow	NMC	-	Centaure 1	0	2	3.9	0.20	0.1	0	0	35	R	100	350
Sparrow Arcas	Sparrow	ATLR	-	Centaure 1	1	2	3.8	0.20	0.1	0	0	35	R	175	350
Cleansweep IIIB	Sparrow	ZIMN	-	Centaure 1	0	1	3.0 ?	0.20	0.1	0	0	16	R	51	350
Petrel	Petrel	BAJUK	-	Centaure 1	0	1	3.3	0.19	0.2	0	0	-	R	140	350
Petrel 2	Petrel	BAJUK	-	Centaure 1	0	1	3.7	0.19	0.2	0	0	-	R	175	350
Gun Projectile 7-inch	Gun07	BRL	-	Centaure 1	1	1	1.0 ?	0.18	0.2	0	0	-	R	100	350
HAEC	Demon	WRE	-	Centaure 1	1	2	3.5	0.18	0.1	0	0	9	T	75	350
Lorikeet	Demon	WRE	-	Centaure 1	1	2	5.0 ?	0.18	0.1 ?	0	0	-	R	100	350
Lorikeet Mk 2	Demon	WRE	-	Centaure 1	1	2	5.0 ?	0.18	0.1 ?	0	0	-	R	100	350
Astrid	Astrid	LLL	-	Centaure 1	1	1	1.9	0.17	0.0	0	0	-	T	10	350
Cleansweep III	Asp	ZIMN	-	Centaure 1	1	1	3.6	0.17	0.1	0	0	16	W	10	350
ASCAMP	Asp	COOP	-	Centaure 1	1	2	5.0	0.17	0.1	0	0	42	R	110	350
Asp	Asp	COOP	-	Centaure 1	1	1	2.7	0.17	0.0	0	0	42	W	70	350
Asp II	Asp	COOP	-	Centaure 1	1	1	2.7	0.17	0.0	0	0	42	W	50	350
Asp III	Asp	COOP	-	Centaure 1	0	1	2.7	0.17	0.0	0	0	42	W	50	350
Asp III	Asp	COOP	4L	Centaure 1	0	1	2.7	0.17	0.0	0	0	42	W	50	350
Asp IV	Asp	COOP	-	Centaure 1	1	1	2.7	0.17	0.0	0	0	12	Y	109	350
Viper-Arrow	Viper	SAND	-	Centaure 1	1	2	5.0	0.17	0.1	0	0	24	R	100	350
Kiva/Hopi	Kiva	RPI	-	Centaure 1	1	2	5.5	0.17	0.1	0	0	27	R	365	350
Cajun Dart	Deacon	SDCO	-	Centaure 1	1	1	4.1	0.17	0.1	0	0	36	W	74	350
Double Cajun T40	Deacon	PARD	-	Centaure 1	1	2	5.0 ?	0.17	0.1	0	0	36	Q	20	350
Pogo Hi	Deacon	NMSU	-	Centaure 1	1	1	4.0 ?	0.17	0.1	0	0	36	Q	25	350
Pogo Hi II	Deacon	NMSU	-	Centaure 1	1	1	4.0 ?	0.17	0.1	0	0	36	Q	25	350
Pogo Hi III	Asp	NMSU	-	Centaure 1	1	1	4.0 ?	0.17	0.1	0	0	36	Q	25	350
Apache	Deacon	NMSU	-	Centaure 1	1	1	4.0 ?	0.17	0.1	0	0	-	R	50	350
Cajun	Deacon	PARD	-	Centaure 1	1	1	4.0 ?	0.17	0.1	0	0	36	Q	20	350
S-C	STA	MHITO?	-	Centaure 1	1	1	2.9	0.17	0.1	0	0	-	R	85	350
S-B	STA	MHITO?	-	Centaure 1	1	1	2.8	0.16	0.1	0	0	-	T	75	350
S-A	STA	MHITO?	-	Centaure 1	1	1	2.8 ?	0.16 ?	0.0	0	0	-	T	50	350
S-160	S-160	NISST	-	Centaure 1	1	1	4.0	0.16	0.1	0	0	-	R	80	350
NAL-16	STA	STA	-	Centaure 1	1	1	4.0	0.16	0.1	0	0	10	T	20	350
Lex	Lex	ONERA/SNECMA	-	Centaure 1	1	1	3.4	0.16	0.0	0	0	10	R	130	350
Monica I	Monica	ATEF	-	Centaure 1	1	3	3.1	0.16	0.1	0	0	-	R	50	350
Monica IV	Monica	ATEF	-	Centaure 1	1	3	5.1	0.16	0.1	0	0	-	R	100	350
Viper V/Dart	Viper5	OSCC	-	Centaure 1	1	1	3.4	0.18	0.0	0	0	27	Y	150	350
Viper Falcon	Viper	SDCO	-	Centaure 1	1	2	3.5 ?	0.17	0.0	0	0	-	Y	80	350
Viper	Viper	SDCO	-	Centaure 1	1	1	2.4	0.16	0.0	0	0	-	Y	100	350
Viper-Dart	Viper	SDCO	-	Centaure 1	1	1	3.4	0.16	0.0	0	0	-	Y	120	350
Rockaire	Deacon	NRL?	-	Centaure 1	0	1	2.7	0.16 ?	0.1	0	0	30	T	40	350
Deacon Rockoon	Deacon	SUI	-	Centaure 1	0	1	3.7	0.16	0.1	0	0	15	R	100	350
Terrapin	Deacon	REP	-	Centaure 1	1	2	4.5	0.16	0.1	0	0	15	R	140	350
Deacon-Loki Rockoon	Deacon	SUI	-	Centaure 1	0	2	5.2 ?	0.16	0.1	0	0	15	R	100	350
ALSOR	Deacon	FRC/ZIMN	-	Centaure 1	0	1	3.6	0.16	0.1	0	0	-	R	100	350
Deacon Judi	Deacon	RPI	-	Centaure 1	1	2	4.2	0.16	0.1	0	0	21	R	146	350
Kisha Judi	Deacon	RPI	-	Centaure 1	1	2	4.2	0.16	0.1	0	0	21	R	146	350
Deacon Arrow II	Deacon	SAND	-	Centaure 1	1	2	5.1	0.15	0.1	0	0	27	R	85	350
Deacon Deacon	Deacon	PARD	-	Centaure 1	1	2	5.0 ?	0.15	0.1	0	0	27	Q	20	350
Double Deacon	Deacon	PARD	-	Centaure 1	1	1	5.0 ?	0.15	0.1	0	0	54	Q	20	350
Tandem Double Deacon	Deacon	PARD	-	Centaure 1	1	2	10.0 ?	0.15	0.1	0	0	54	Q	20	350
Triple Deacon	Deacon	PARD	-	Centaure 1	1	1	7.0 ?	0.15	0.1	0	0	75	Q	20	350

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Triple Deacon HPAG	Deacon	PARD	-	Centaure 1	1	2	7.0 ?	0.15	0.1	0	0	75	Q	20	350
Tri-Deacon Deacon HPAG	Deacon	PARD	-	Centaure 1	1	3	7.0 ?	0.15	0.2	0	0	75	Q	20	350
Quad Deacon	Deacon	PARD	-	Centaure 1	1	1	7.0 ?	0.15	0.1	0	0	100	Q	20	350
Deacon	Deacon	PARD	-	Centaure 1	1	1	4.0 ?	0.15	0.1	0	0	27	Q	20	350
Deacon HVAR	Deacon	PARD	-	Centaure 1	1	2	4.0 ?	0.15	0.1	0	0	27	Q	20	350
Deacon Sidewinder	Deacon	PARD	-	Centaure 1	1	2	4.0 ?	0.15	0.1	0	0	27	Q	20	350
Vrbec-Banovic	Amateur	VRBEC	-	Centaure 1	1	2	3.5 ?	0.15	0.1	0	0	-	T	80	350
Atea-1	Atea	RLABN	-	Centaure 1	1	1	5.0	0.15	0.1	0	0	-	R	100	350
Icarus	Icarus	ERAU	-	Centaure 1	1	2	4.9	0.15	0.1	0	0	16	R	60	350
Hyperion	AMROC	EAC	-	Centaure 1	1	1	5.8	0.15	0.1	0	0	6	T	36	350
K150	K150	ISAS	-	Centaure 1	1	1	4.0 ?	0.15	0.1	0	0	-	T	7	350
Zhinui	ZN	NUDTC	-	Centaure 1	1	1	4.8	0.15	0.1	0	0	10	R	120	350
Arcon	Arcon	ATLR/NRL	-	Centaure 1	0	1	4.0	0.15	0.1	0	0	14	R	100	350
Astrobee D	AstrobeeD	AJSP	-	Centaure 1	1	1	3.9	0.15	0.1	0	0	23	R	140	350
MERA	Mera	KBPT	-	Centaure 1	1	2	3.2	0.15	0.1	0	0	-	Y	85	350
MD-01	Meteo	SUD	-	Centaure 1	1	1	3.4	0.15	0.1	0	0	-	W	20	350
Meteo	Meteo	SUD	-	Centaure 1	1	1	3.4 ?	0.15	0.0	0	0	-	W	50	350
Sirocco	Sirocco	SDCO	-	Centaure 1	1	1	3.9	0.14	0.1	0	0	-	W	60	350
MT-135	MT-135	NISST	-	Centaure 1	1	1	3.3	0.14	0.0	0	0	12	W	50	350
MT-135P	MT-135	NISST	-	Centaure 1	1	1	3.3	0.14	0.0	0	0	12	W	50	350
MT-135JA	MT-135	NISST	-	Centaure 1	1	1	3.3	0.14	0.0	0	0	12	W	50	350
Ivanov	Ivanov	FIAN	-	Centaure 1	0	3	4.3	0.14	0.1	0	0	-	W	40	350
Emma	Emma	MATRA	-	Centaure 1	0	1	3.9	0.13	0.1	0	0	-	W	69	350
Gamma Centauro	GammaCen	IIAE	-	Centaure 1	1	2	2.4	0.13	0.0	0	0	-	W	30	350
Aurore	Aurore	SNECMA	-	Centaure 1	1	1	3.3	0.13	0.0	0	0	8	W	60	350
Kappa 1	Kappa	ISAS	-	Centaure 1	1	1	2.7	0.13	0.0	0	0	10	T	40	350
Gun Projectile 5-inch	Gun05	BRL	-	Centaure 1	1	1	1.0 ?	0.13	0.2	0	0	-	R	100	350
Skua	Skua	BAJUK	-	Centaure 1	0	1	2.2	0.13	0.0	0	0	-	W	70	350
Skua 2	Skua	BAJUK	-	Centaure 1	0	1	2.8	0.13	0.1	0	0	-	R	100	350
Skua 3	Skua	BAJUK	-	Centaure 1	0	1	2.8	0.13	0.1	0	0	-	R	120	350
Skua 4	Skua	BAJUK	-	Centaure 1	0	1	2.8	0.13	0.1	0	0	-	R	120	350
FTB	FTB	AVIB	-	Centaure 1	1	1	3.0	0.13	0.1	0	0	-	R	30	350
Sidewinder-Arcas	Sidewinder	ATLR	-	Centaure 1	1	2	4.3	0.13	0.1	0	0	-	R	90	350
Sidewinder-Raven	Sidewinder	RPI	-	Centaure 1	1	2	5.2	0.13	0.1	0	0	-	Y	112	350
HPAG	Sidewinder	PARD	-	Centaure 1	1	1	1.8	0.13	0.0	0	0	12	Q	10	350
HPAG Deacon	Sidewinder	PARD	-	Centaure 1	1	2	3.0 ?	0.13	0.0	0	0	12	Q	10	350
Double HPAG Deacon	Sidewinder	PARD	-	Centaure 1	1	2	3.0 ?	0.13	0.0	0	0	12	Q	10	350
ADTV	Lupus	WRE	-	Centaure 1	1	1	2.2	0.13	0.0	0	0	9	T	20	350
Kookaburra	Lupus	WRE	-	Centaure 1	1	2	3.5	0.13	0.1	0	0	9	T	75	350
Kookaburra 2	Lupus	WRE	-	Centaure 1	1	2	3.5	0.13	0.1	0	0	9	T	75	350
Kookaburra 3	Lupus	WRE	-	Centaure 1	1	2	3.5	0.13	0.1	0	0	9	T	75	350
DAC Roc	DACRoc	DAC	-	Centaure 1	1	1	-	0.13 ?	-	0	0	-	T	50	350
Seagull	Unknown	UNKUS	-	Centaure 1	1	1	-	0.13 ?	-	0	0	-	T	50	350
HALO	HALO	HAL5	-	Centaure 1	1	1	2.2	0.13	0.0	0	0	-	T	60	350
HVAR	HVAR	PARD	-	Centaure 1	1	1	2.0	0.13	0.0	0	0	25	Q	10	350
HVAR FFAR	HVAR	PARD	-	Centaure 1	1	2	3.0	0.13	0.0	0	0	25	Q	10	350
DIM	DIM	IIAE	-	Centaure 1	1	1	2.9	0.12	0.0	0	0	-	W	70	350
Meteor-1	Meteor	PAI	-	Centaure 1	1	1	2.5	0.12	0.0	0	0	14	W	40	350
Meteor-3	Meteor	PAI	-	Centaure 1	1	2	4.3	0.12	0.0	0	0	14	W	65	350
Meteor-3B	Meteor	PAI	-	Centaure 1	1	2	4.3	0.12	0.0	0	0	14	W	65	350
RH-125	RH-125	VSSC	-	Centaure 1	1	1	2.5 ?	0.12	0.1	0	0	8	W	30	350
MCR-3/RH-125	RH-125	VSSC	-	Centaure 1	0	1	3.5 ?	0.12	0.1	0	0	8	W	30	350
INTA-100	INTA-100	INTA	-	Centaure 1	1	2	4.1	0.12	0.1	0	0	17	W	100	350
Menaka II	RH-125	VSSC	-	Centaure 1	1	2	3.8	0.12	0.1	0	0	8	W	60	350
Black Brant VI	BB6	BAL	-	Centaure 1	1	1	2.8	0.12	0.1	0	0	7	W	72	350
Sonda 1	Sonda	IAE	-	Centaure 1	1	2	4.5	0.11	0.1	0	0	27	W	65	350
Rocketsonde	Rocketsonde	SDCO?	-	Centaure 1	1	1	3.0 ?	0.11 ?	0.0	0	0	1	W	100	350
Rocketsonde2	Rocketsonde2	SDCO?	-	Centaure 1	1	1	3.0 ?	0.11 ?	0.0	0	0	1	W	100	350
MESOS	Amateur	MESOS	-	Centaure 1	1	2	3.5	0.11	0.0	0	0	-	T	80	350
Viper 3A	Viper3	SDCO	-	Centaure 1	1	1	2.4	0.11	0.0	0	0	-	Y	120	350
DART	Viper3	TMINUS	-	Centaure 1	1	1	3.4	0.11	0.0	0	0	-	Y	120	350
Arcas	Arcas	ATLR	-	Centaure 1	1	1	2.3	0.11	0.0	0	0	1	Y	90	350
Frangible Arcas	Arcas	ATLR	-	Centaure 1	1	1	2.3	0.11	0.0	0	0	1	Y	90	350
Boosted Arcas	ArcasB	ATLR	-	Centaure 1	1	2	3.4	0.11	0.0	0	0	1	Y	90	350
Boosted Arcas 2	ArcasB	ATLR	-	Centaure 1	1	2	3.4	0.11	0.0	0	0	1	Y	90	350
Super Arcas	Arcas	ATLR	-	Centaure 1	1	1	2.7	0.11	0.0	0	0	1	Y	100	350
Excalibur	Excalibur	BAL	-	Centaure 1	1	1	3.0 ?	0.11	0.0	0	0	1	Y	100	350
Hopi Dart	Hopi	RPI	-	Centaure 1	1	1	3.3	0.11	0.0	0	0	-	Y	116	350
Raven	Hopi	RPI	-	Centaure 1	1	1	3.3	0.11	0.0	0	0	8	W	60	350
Super Loki	SuperLoki	SDCO	-	Centaure 1	1	1	3.3	0.10	0.0	0	0	18	Y	90	350
Shadow 1	SuperLoki	LRRC	-	Centaure 1	1	1	3.3	0.10	0.0	0	0	18	Y	90	350
Stable Super Loki	SuperLoki	SDCO	-	Centaure 1	1	1	3.3	0.10	0.0	0	0	18	Y	90	350
FalconLaunch	SuperLoki	USAFA	-	Centaure 1	1	1	3.3	0.10 ?	0.0	0	0	22	Y	108	350

LV

LV_Name	LV_Family	LV_Manufacturer	LV_Variant	LV_Alias	LV_Min_Stage	LV_Max_Stage	Length m	Diameter m	Launch_Mass t	LEO_Capacity kg	GTO_Capacity kg	TO_Thrust kN	Class	Apogee km	Range km
Microstar	SuperLoki	SPFL	-	Centaure 1	1	1	3.3 ?	0.10 ?	0.0	0	0	-	W	75	350
Meraki	Amateur	NZRA	-	Centaure 1	1	2	4.0	0.10	0.1	0	0	0	R	120	350
SPEAR-HRT	Amateur	USMA	-	Centaure 1	1	2	3.0	0.10	0.0	0	0	-	T	90	350
Skylark Micro	SkylarkMicro	SKYR	-	Centaure 1	1	2	3.3	0.10	0.0	0	0	-	W	30	350
Epona	Belisama	CFTHB	-	Centaure 1	1	2	4.4	0.10	0.1	0	0	-	W	60	350
SA-II	STA	STA	-	Centaure 1	1	1	-	0.10 ?	0.0	0	0	-	T	20	350
ST	STA	STA	-	Centaure 1	1	1	-	0.10 ?	0.0	0	0	-	T	20	350
Black Brant VII	BB7	BAL	-	Centaure 1	1	1	2.1	0.09	0.0	0	9	-	W	40	350
Loki Dart	Loki	SDCO	-	Centaure 1	1	1	2.6	0.08	0.0	0	0	-	W	75	350
Loki Dart PWN-8B	Loki	SDCO	-	Centaure 1	1	1	2.6	0.08	0.0	0	0	-	W	75	350
Loki	Loki	SDCO	-	Centaure 1	1	1	2.6	0.08	0.0	0	0	-	W	75	350
Loki Rockoon	Loki	SUI	-	Centaure 1	0	1	2.4	0.08	0.0	0	0	10	R	100	350
Judi-Dart	Loki	RPI	-	Centaure 1	1	1	2.7	0.08	0.0	0	0	9	W	65	350
Metroc	Loki	ATLR	-	Centaure 1	1	1	1.4	0.08	0.0	0	0	1	W	30	350
FTV	ISRO-TV	VSSC	-	Centaure 1	1	1	-	-	0.0	0	0	-	T	10	350
SEGPRO	ISRO-TV	VSSC	-	Centaure 1	1	1	-	-	0.0	0	0	-	T	10	350
RH-75	RH-75	VSSC	-	Centaure 1	1	1	1.5	0.08	0.0	0	0	-	W	10	350
NAL-7	STA	STA	-	Centaure 1	1	1	-	0.07	0.0	0	0	-	T	20	350
Rockair	FFAR	UMD	-	Centaure 1	0	1	1.2	0.07	0.0	0	0	3	T	50	350
FFAR	FFAR	PARD	-	Centaure 1	1	1	1.2	0.08	0.0	0	0	-	Q	10	350
Double FFAR	FFAR	PARD	-	Centaure 1	1	2	2.4	0.08	0.0	0	0	-	Q	10	350
Navaho II SM-64	Navaho	NAAD	-	Centaure 1	1	2	26.6	-	54.6	0	0	-	C	25	350
MX-775	Snark	NORTH	-	Centaure 1	1	1	15.8	1.40	12.7	0	0	-	C	10	350
Snark	Snark	NORTH	-	Centaure 1	1	1	21.3	1.40	22.5	0	0	-	C	10	350
Matador	Matador	MARTB	-	Centaure 1	1	1	12.1	1.40	5.2	0	0	-	C	12	350
Mace	Matador	MARTB	-	Centaure 1	1	1	14.3	1.40	8.5	0	0	-	C	12	350
Regulus	Regulus	VOUA	-	Centaure 1	1	1	10.1	1.40	6.6	0	0	293	C	15	350
Regulus II	Regulus	VOUA	-	Centaure 1	1	1	20.5	1.30	10.2	0	0	-	C	20	350
Bomarc A	Bomarc	BOC	-	Centaure 1	1	1	14.2	0.89	6.8	0	0	-	C	20	350
Bomarc B	Bomarc	BOC	-	Centaure 1	1	1	14.2	0.89	6.8	0	0	-	C	20	350
Goose	BullGoose	FAIRA	-	Centaure 1	1	1	10.2 ?	0.85 ?	3.5 ?	0	0	-	C	20	350
Bull Goose	BullGoose	FAIRA	-	Centaure 1	1	1	10.2	0.85 ?	3.5	0	0	-	C	20	350
X-7B	X-7	LVN	-	Centaure 1	0	1	2.1	0.61	3.6	0	0	-	C	30	350
X-7A-3	X-7	LVN	-	Centaure 1	0	1	2.1	0.61	3.6	0	0	-	C	30	350
GLCM	GLCM	GDA	-	Centaure 1	1	1	6.4	0.53	1.8	0	0	-	C	20	2500
BLDT	BLDT	JPL	-	Centaure 1	1	1	0.0	0.00	0.0	0	0	-	C	10	2500
Lark	Lark	FAIRA	-	Centaure 1	1	1	5.6	0.46	0.9	0	0	-	C	8	2500

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
?	-	1	?	?	-	1		0	-6378	
Unknown	-	1	?	?	-	1		0	-6378	
N-1 11A52	-	1	N-1 Blok-A	-	-	1	4980000.0	50	-6300	?
N-1 11A52	-	2	N-1 Blok-B	-	-	1	1820000.0	100	-6300	?
N-1 11A52	-	3	N-1 Blok-V	-	-	1	642000.0	200	-6300	?
N-1 11A52	-	F	GO	-	-	2	642000.0	100	-6300	?
Saturn V	-	1	Saturn S-IC	-	-	1	642000.0	114	-5998	?
Saturn V	-	2	S-II Interstage	-	-	1	642000.0	120	-5800	?
Saturn V	-	3	Saturn S-II	-	-	1	642000.0	189	-2112	?
Saturn V	-	4	Saturn S-IVB	-	-	1	642000.0	188	188	?
Saturn V	2	1	Saturn S-IC	-	-	1	642000.0	206	-6055	?
Saturn V	2	2	S-II Interstage	-	-	1	642000.0	427	427	?
Saturn V	2	3	Saturn S-II	-	-	1	642000.0	427	427	?
Starship V1.0 Ship	-	1	Starship V1.0	-	-	1	642000.0	20	-6370	?
Starship V1.0	-	1	Super Heavy	-	-	1	642000.0	100	-6370	?
Starship V1.0	-	2	Starship V1.0	-	-	1	642000.0	200	200	?
Starship V2	R2	1	Super Heavy	-	-	1	642000.0	100	-6370	?
Starship V2	R2	2	Starship V2 (R2)	-	-	1	642000.0	200	200	?
Starship V2	-	1	Super Heavy V3	-	-	1	642000.0	100	-6370	?
Starship V2	-	2	Starship V3	-	-	1	642000.0	200	200	?
Starship V3	-	1	Super Heavy V3	-	-	1	642000.0	100	-6370	?
Starship V3	-	2	Starship V3	-	-	1	642000.0	200	200	?
Space Shuttle	-	1	SRM	-	-	2	642000.0	65	-6250	?
Space Shuttle	-	2	ET	-	-	1	642000.0	280	80	?
Space Shuttle	-	3	OV	-	-	1	642000.0	280	80	?
SLS Block 1	-	1	RSRMV	-	-	2	642000.0	80	-6300	?
SLS Block 1	-	2	SLS CS	-	-	1	642000.0	80	-6300	?
SLS Block 1	-	3	ICPS	-	-	1	642000.0	80	-6300	?
Energiya	-	0	Energiya Blok A	-	-	4	642000.0	75	-6300	?
Energiya	-	1	Energiya	-	-	1	642000.0	155	-15	?
Energiya	-	F	Fairing	-	-	2	642000.0	120	-6300	?
Energiya/Buran	-	0	11S771	-	-	4	642000.0	75	-6300	?
Energiya/Buran	-	1	Energiya	-	-	1	642000.0	154	11	?
UR-500	-	1	8S810	-	-	1	642000.0	60	-6200	?
UR-500	-	2	8S811	-	-	1	642000.0	130	-5000	?
UR-500K	-	1	8S810	-	-	1	642000.0	60	-6200	?
UR-500K	-	2	8S811	-	-	1	642000.0	140	-4900	?
UR-500K	-	3	8S812	-	-	1	642000.0	180	180	?
UR-500K	-	F	GO	-	-	2	642000.0	120	-5200	?
UR-500K/Blok D	-	1	8S810	-	-	1	642000.0	60	-6200	?
UR-500K/Blok D	-	2	8S811	-	-	1	642000.0	130	-5000	?
UR-500K/Blok D	-	3	8S812	-	-	1	642000.0	160	-1000	?
UR-500K/Blok D	-	4	Perekhodnik	-	-	1	642000.0	160	-1000	?
UR-500K/Blok D	-	5	11S824	-	-	1	642000.0	180	180	?
UR-500K/Blok D	-	6	SOZ	-	-	2	642000.0	180	180	?
UR-500K/Blok D	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K	-	2	8S811	-	-	1	642000.0	140	-4900	?
Proton-K	-	3	8S812	-	-	1	642000.0	180	180	?
Proton-K	-	F	GO	-	-	2	642000.0	120	-5200	?
Proton-K/D	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/D	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/D	-	3	8S812	-	-	1	642000.0	160	-1000	?
Proton-K/D	-	4	Perekhodnik	-	-	1	642000.0	160	-1000	?
Proton-K/D	-	5	11S824	-	-	1	642000.0	180	180	?
Proton-K/D	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/D	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/D-1	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/D-1	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/D-1	-	3	8S812	-	-	1	642000.0	160	-1000	?
Proton-K/D-1	-	4	Perekhodnik	-	-	1	642000.0	160	-1000	?
Proton-K/D-1	-	5	11S824M	-	-	1	642000.0	180	180	?
Proton-K/D-1	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/D-1	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/D-2	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/D-2	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/D-2	-	3	8S812	-	-	1	642000.0	160	-900	?
Proton-K/D-2	-	4	Perekhodnik	-	-	1	642000.0	160	-900	?
Proton-K/D-2	-	5	11S824F	-	-	1	642000.0	180	180	?
Proton-K/D-2	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/D-2	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM	-	2	8S811	-	-	1	642000.0	130	-5000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Proton-K/DM	-	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM	-	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM	-	5	11S86	-	-	1	642000.0	180	180	?
Proton-K/DM	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/DM	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM-2	-	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM-2	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/DM-2	-	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM-2	-	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM-2	-	5	11S861	-	-	1	642000.0	180	180	?
Proton-K/DM-2	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/DM-2	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM-2	DM1	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM-2	DM1	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/DM-2	DM1	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM-2	DM1	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM-2	DM1	5	Blok DM1	-	-	1	642000.0	180	180	?
Proton-K/DM-2	DM1	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/DM-2	DM1	F	GO	-	-	2	642000.0	140	-5000	?
Proton-M	-	1	8S810M	-	-	1	642000.0	60	-6200	?
Proton-M	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-M	-	3	8S812M	-	-	1	642000.0	180	180	?
Proton-M	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-M/DM-2	-	1	8S810M	-	-	1	642000.0	60	-6200	?
Proton-M/DM-2	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-M/DM-2	-	3	8S812M	-	-	1	642000.0	180	180	?
Proton-M/DM-2	-	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-M/DM-2	-	5	11S861	-	-	1	642000.0	180	180	?
Proton-M/DM-2	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-M/DM-2	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-M/DM-3	-	1	8S810M	-	-	1	642000.0	60	-6200	?
Proton-M/DM-3	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-M/DM-3	-	3	8S812M	-	-	1	642000.0	180	180	?
Proton-M/DM-3	-	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-M/DM-3	-	5	11S861-03	-	-	1	642000.0	180	180	?
Proton-M/DM-3	-	6	SOZ	-	-	2	642000.0	180	180	?
Proton-M/DM-3	-	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM-2M	DM-2M	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM-2M	DM-2M	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/DM-2M	DM-2M	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM-2M	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM-2M	5	11S861-01	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM-2M	6	SOZ	-	-	2	642000.0	37800	180	?
Proton-K/DM-2M	DM-2M	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM-2M	DM3	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM-2M	DM3	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/DM-2M	DM3	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM3	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM3	5	Blok DM3	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM3	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/DM-2M	DM3	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/DM-2M	DM4	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/DM-2M	DM4	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/DM-2M	DM4	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM4	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM4	5	Blok DM4	-	-	1	642000.0	180	180	?
Proton-K/DM-2M	DM4	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/DM-2M	DM4	F	GO	-	-	2	642000.0	140	-5000	?
Proton-K/17S40	DM2	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/17S40	DM2	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/17S40	DM2	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM2	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM2	5	17S40	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM2	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/17S40	DM2	F	GO	-	-	2	642000.0	130	-5000	?
Proton-K/17S40	DM-5	1	8S810	-	-	1	642000.0	60	-6200	?
Proton-K/17S40	DM-5	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/17S40	DM-5	3	8S812	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM-5	4	Perekhodnik	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM-5	5	17S40	-	-	1	642000.0	180	180	?
Proton-K/17S40	DM-5	6	SOZ	-	-	2	642000.0	180	180	?
Proton-K/17S40	DM-5	F	GO	-	-	2	642000.0	130	-5000	?
Proton-K/Briz-M	-	1	8S810	-	-	1	642000.0	60	-6200	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Proton-K/Briz-M	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-K/Briz-M	-	3	8S812	-	-	1	642000.0	160	-1000	?
Proton-K/Briz-M	-	4	Briz-M	-	-	1	642000.0	200	200	?
Proton-K/Briz-M	-	F	GO	-	-	2	642000.0	130	-5000	?
Proton-M/Briz-M	-	1	8S810M	-	-	1	642000.0	60	-6200	?
Proton-M/Briz-M	-	2	8S811	-	-	1	642000.0	130	-5000	?
Proton-M/Briz-M	-	3	8S812M	-	-	1	642000.0	180	180	?
Proton-M/Briz-M	-	4	Briz-M	-	-	1	642000.0	180	180	?
Proton-M/Briz-M	-	F	GO	-	-	2	642000.0	140	-5000	?
Neutron	-	1	Neutron St1	-	-	1	642000.0	150	-6000	?
Neutron	-	2	Neutron St2	-	-	1	642000.0	500	500	?
New Glenn	-	1	New Glenn GS1	-	-	1	642000.0	150	-6000	?
New Glenn	-	2	New Glenn GS2	-	-	1	642000.0	150	-6000	?
Saturn C-1	-	1	Saturn S-I	-	-	1	642000.0	130	-6300	?
Saturn C-1	-	2	Saturn S-IVD	-	d	1	642000.0	130	-6300	?
Saturn C-1	-	3	Saturn S-V	-	d	1	642000.0	130	-6300	?
Saturn C-1	-	F	Fairing	-	-	1	642000.0	130	-6250	?
Saturn I	-	1	Saturn S-I	-	-	1	642000.0	130	-6250	?
Saturn I	-	2	Saturn S-IVD	-	d	1	642000.0	130	-6250	?
Saturn I	-	3	Saturn S-V	-	d	1	642000.0	130	-6250	?
Saturn I	-	F	Fairing	-	-	1	642000.0	130	-6250	?
Saturn I	Blk2	1	Saturn S-I	-	-	1	642000.0	160	-5940	?
Saturn I	Blk2	2	Saturn S-IV	-	-	1	642000.0	180	180	?
Saturn IB	-	1	Saturn S-IB	-	-	1	642000.0	120	-6145	?
Saturn IB	-	2	Saturn S-IVB	-	-	1	642000.0	220	220	?
Uprated Saturn I	-	1	Saturn S-IB	-	-	1	642000.0	120	-6145	?
Uprated Saturn I	-	2	Saturn S-IVB	-	-	1	642000.0	220	220	?
ATB	-	1	ATB	-	-	1	642000.0	10	-6300	?
Vulcan Centaur VC0S	-	1	Vulcan	-	-	1	642000.0	150	-6000	?
Vulcan Centaur VC0S	-	2	Centaur V	-	-	1	642000.0	200	40000	?
Vulcan Centaur VC0S	-	F	Vulcan Std Fairing	-	-	2	642000.0	200	200	?
Vulcan Centaur VC2S	-	0	GEM-63XL	-	-	2	642000.0	50	-6300	?
Vulcan Centaur VC2S	-	1	Vulcan	-	-	1	642000.0	150	-6000	?
Vulcan Centaur VC2S	-	2	Centaur V	-	-	1	642000.0	200	40000	?
Vulcan Centaur VC2S	-	F	Vulcan Std Fairing	-	-	2	642000.0	200	200	?
Vulcan Centaur VC4S	-	0	GEM-63XL	-	-	4	642000.0	50	-6300	?
Vulcan Centaur VC4S	-	1	Vulcan	-	-	1	642000.0	150	-6000	?
Vulcan Centaur VC4S	-	2	Centaur V	-	-	1	642000.0	200	40000	?
Vulcan Centaur VC4S	-	F	Vulcan Std Fairing	-	-	2	642000.0	200	200	?
Vulcan Centaur VC6S	-	0	GEM-63XL	-	-	6	642000.0	50	-6300	?
Vulcan Centaur VC6S	-	1	Vulcan	-	-	1	642000.0	150	-6000	?
Vulcan Centaur VC6S	-	2	Centaur V	-	-	1	642000.0	200	40000	?
Vulcan Centaur VC6S	-	F	Vulcan Std Fairing	-	-	2	642000.0	200	200	?
Ariane 5G	-	0	Ariane EAP P238	-	-	2	1262652.0	75	-6000	?
Ariane 5G	-	1	Ariane 5 EPC H158	-	-	1	656146.0	1500	50	?
Ariane 5G	-	2	Ariane 5 EPS	-	-	1	31900.0	35780	200	?
Ariane 5G	-	F	Ariane 5 Fairing	-	-	2	31900.0	125	-5800	?
Ariane 5G+	-	0	Ariane EAP P238	-	-	2	1262652.0	75	-6000	?
Ariane 5G+	-	1	Ariane 5 EPC H158	-	-	1	656146.0	1500	50	?
Ariane 5G+	-	2	Ariane 5 EPS P2000	-	-	1	31900.0	35780	200	?
Ariane 5G+	-	F	Ariane 5 Fairing	-	-	2	31900.0	130	-5800	?
Ariane 5GS	-	0	Ariane EAP P240	-	-	2	1262652.0	75	-6100	?
Ariane 5GS	-	1	Ariane 5 EPC H158	-	-	1	656146.0	1500	50	?
Ariane 5GS	-	2	Ariane 5 EPS P2000	-	-	1	31900.0	35780	200	?
Ariane 5GS	-	F	Ariane 5 Fairing	-	-	2	31900.0	130	-5800	?
Ariane 5ES/ATV	-	0	Ariane EAP P240	-	-	2	1262652.0	75	-6100	?
Ariane 5ES/ATV	-	1	Ariane 5 EPC H175	-	-	1	656146.0	1500	50	?
Ariane 5ES/ATV	-	2	Ariane 5 EPS P2000	-	-	1	31900.0	35780	200	?
Ariane 5ES/ATV	-	F	Ariane 5 Fairing	-	-	2	31900.0	130	-5800	?
Ariane 5ES	-	0	Ariane EAP P240	-	-	2	1262652.0	75	-6100	?
Ariane 5ES	-	1	Ariane 5 EPC H175	-	-	1	656146.0	1500	50	?
Ariane 5ES	-	2	Ariane 5 EPS P2000	-	-	1	31900.0	35780	200	?
Ariane 5ES	-	F	Ariane 5 Fairing	-	-	2	31900.0	130	-5800	?
Ariane 5ECA	-	0	Ariane EAP P240	-	-	2	1262652.0	75	-6100	?
Ariane 5ECA	-	1	Ariane 5 EPC H175	-	-	1	656146.0	1500	50	?
Ariane 5ECA	-	2	ESC-A	-	-	1	656146.0	35780	200	?
Ariane 5ECA	-	F	Ariane 5 Fairing	-	-	2	656146.0	125	-6000	?
Ariane 5ECA+	-	0	Ariane EAP P240	-	-	2	1262652.0	75	-6100	?
Ariane 5ECA+	-	1	Ariane 5 EPC H175	-	-	1	656146.0	1500	50	?
Ariane 5ECA+	-	2	ESC-D	-	-	1	656146.0	35780	200	?
Ariane 5ECA+	-	F	Ariane 5 Fairing	-	-	2	656146.0	125	-6000	?
Ariane 62	-	0	Ariane 6 ESR	-	-	2	656146.0	100	-6000	?
Ariane 62	-	1	Ariane 6 LLPM	-	-	1	656146.0	250	-5000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Ariane 62	-	2	Ariane 6 ULPM	-	-	1	656146.0	200	35000	?
Ariane 62	-	F	Ariane 6 Fairing	-	-	2	656146.0	250	-5000	?
Ariane 64	-	0	Ariane 6 ESR	-	-	4	656146.0	100	-6000	?
Ariane 64	-	1	Ariane 6 LLPM	-	-	1	656146.0	250	-5000	?
Ariane 64	-	2	Ariane 6 ULPM	-	-	1	656146.0	200	35000	?
Ariane 64	-	F	Ariane 6 Fairing	-	-	2	656146.0	250	-5000	?
H3-30S	-	1	H3 Stage 1 3E	-	-	1	656146.0	100	-6000	?
H3-30S	-	2	H3 Stage 2	-	-	1	656146.0	300	200	?
H3-22S	-	0	H3 SRB-3	-	-	2	656146.0	50	-6000	?
H3-22S	-	1	H3 Stage 1 2E	-	-	1	656146.0	100	-6000	?
H3-22S	-	2	H3 Stage 2	-	-	1	656146.0	300	200	?
H3-22L	-	0	H3 SRB-3	-	-	2	656146.0	50	-6000	?
H3-22L	-	1	H3 Stage 1 2E	-	-	1	656146.0	100	-6000	?
H3-22L	-	2	H3 Stage 2	-	-	1	656146.0	300	200	?
H3-24L	-	0	H3 SRB-3	-	-	4	656146.0	50	-6000	?
H3-24L	-	1	H3 Stage 1 2E	-	-	1	656146.0	100	-6000	?
H3-24L	-	2	H3 Stage 2	-	-	1	656146.0	300	200	?
H-IIB	-	0	H-II SRB-A3	-	-	4	656146.0	50	-6378	?
H-IIB	-	1	H-IIB Stage 1	-	-	1	656146.0	100	-6000	?
H-IIB	-	2	H-IIA Stage 2	-	-	1	656146.0	300	200	?
Chang Zheng 5	-	0	CZ-5 Booster	-	-	4	656146.0	50	-6370	?
Chang Zheng 5	-	1	CZ-5 Stage 1	-	-	1	656146.0	50	-6370	?
Chang Zheng 5	-	2	CZ-5 Stage 2	-	-	1	656146.0	200	200	?
Chang Zheng 5B	-	0	CZ-5 Booster	-	-	4	656146.0	50	-6370	?
Chang Zheng 5B	-	1	CZ-5 Stage 1	-	-	1	656146.0	50	-6370	?
Chang Zheng 5/YZ-2	-	0	CZ-5 Booster	-	-	4	656146.0	50	-6370	?
Chang Zheng 5/YZ-2	-	1	CZ-5 Stage 1	-	-	1	656146.0	50	-6370	?
Chang Zheng 5/YZ-2	-	2	CZ-5 Stage 2	-	-	1	656146.0	200	200	?
Chang Zheng 5/YZ-2	-	3	YZ-2	-	-	1	656146.0	200	35780	?
Chang Zheng 5B/YZ-2	-	0	CZ-5 Booster	-	-	4	656146.0	50	-6370	?
Chang Zheng 5B/YZ-2	-	1	CZ-5 Stage 1	-	-	1	656146.0	50	-6370	?
Chang Zheng 5B/YZ-2	-	2	YZ-2	-	-	1	656146.0	200	35780	?
Delta 4H	-	0	Delta CBC	-	-	2	656146.0	100	-5800	?
Delta 4H	-	1	Delta CBC	-	-	1	656146.0	200	-4400	?
Delta 4H	-	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4H	-	F	Fairing	-	-	2	656146.0	200	-4400	?
Delta 4H	A	0	Delta CBC RS-68A	-	-	2	656146.0	100	-5800	?
Delta 4H	A	1	Delta CBC RS-68A	-	-	1	656146.0	200	-4400	?
Delta 4H	A	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4H	A	F	Fairing	-	-	2	656146.0	200	-4400	?
Delta 4H	B	0	Delta CBC RS-68A	-	-	2	656146.0	100	-5800	?
Delta 4H	B	1	Delta CBC RS-68A	-	-	1	656146.0	200	-4400	?
Delta 4H	B	2	DCSS5-1	-	-	1	656146.0	200	200	?
Delta 4H	B	F	Fairing	-	-	2	656146.0	200	-4400	?
Delta 4H/Star 48BV	-	0	Delta CBC RS-68A	-	-	2	656146.0	100	-5800	?
Delta 4H/Star 48BV	-	1	Delta CBC RS-68A	-	-	1	656146.0	200	-4400	?
Delta 4H/Star 48BV	-	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4H/Star 48BV	-	3	Delta 4H Stage 3	-	-	1	656146.0	200	200	?
Delta 4H/Star 48BV	-	F	Fairing	-	-	2	656146.0	200	-4400	?
Delta 4M	-	1	Delta CBC	-	-	1	656146.0	180	-4900	?
Delta 4M	-	2	Delta D4SS-4	-	-	1	656146.0	200	200	?
Delta 4M	-	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(4,2)	-	0	GEM-60	-	-	2	656146.0	40	-6370	?
Delta 4M+(4,2)	-	1	Delta CBC	-	-	1	656146.0	180	-4900	?
Delta 4M+(4,2)	-	2	Delta D4SS-4	-	-	1	656146.0	200	200	?
Delta 4M+(4,2)	-	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(5,4)	-	0	GEM-60	-	-	4	656146.0	40	-6370	?
Delta 4M+(5,4)	-	1	Delta CBC	-	-	1	656146.0	180	-4900	?
Delta 4M+(5,4)	-	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4M+(5,4)	-	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(5,2)	-	0	GEM-60	-	-	2	656146.0	40	-6370	?
Delta 4M+(5,2)	-	1	Delta CBC	-	-	1	656146.0	180	-4900	?
Delta 4M+(5,2)	-	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4M+(5,2)	-	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(4,2)	A	0	GEM-60	-	-	2	656146.0	40	-6370	?
Delta 4M+(4,2)	A	1	Delta CBC RS-68A	-	-	1	656146.0	180	-4900	?
Delta 4M+(4,2)	A	2	Delta D4SS-4	-	-	1	656146.0	200	200	?
Delta 4M+(4,2)	A	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(5,4)	A	0	GEM-60	-	-	4	656146.0	40	-6370	?
Delta 4M+(5,4)	A	1	Delta CBC RS-68A	-	-	1	656146.0	180	-4900	?
Delta 4M+(5,4)	A	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4M+(5,4)	A	F	Fairing	-	-	2	656146.0	200	-4900	?
Delta 4M+(5,2)	A	0	GEM-60	-	-	2	656146.0	40	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Delta 4M+(5,2)	A	1	Delta CBC RS-68A	-	-	1	656146.0	180	-4900	?
Delta 4M+(5,2)	A	2	Delta D4SS-5	-	-	1	656146.0	200	200	?
Delta 4M+(5,2)	A	F	Fairing	-	-	2	656146.0	200	-4900	?
DC-XA	-	1	DC-XA	-	-	1	656146.0	2	-6378	?
DC-X	-	1	DC-X	-	-	1	656146.0	2	-6378	?
H-II	-	0	H-II SRB	-	-	2	291400.0	60	-6260	?
H-II	-	1	H-II Stage 1	-	-	1	373680.0	300	-4600	?
H-II	-	2	H-II Stage 2	-	-	1	73200.0	400	400	?
H-II	-	F	Fairing	-	-	2	73200.0	140	-5940	?
H-II	(2S)	-1	H-II SSB	-	-	2	73200.0	50	-6250	?
H-II	(2S)	0	H-II SRB	-	-	2	291400.0	60	-6250	?
H-II	(2S)	1	H-II Stage 1	-	-	1	373680.0	250	-4400	?
H-II	(2S)	2	H-II Stage 2	-	-	1	73200.0	400	400	?
H-II	(2S)	F	Fairing	-	-	2	73200.0	140	-5950	?
H-IIA 202	-	0	H-II SRB-A	-	-	2	73200.0	70	-6260	?
H-IIA 202	-	1	H-IIA Stage 1	-	-	1	73200.0	250	-4400	?
H-IIA 202	-	2	H-IIA Stage 2	-	-	1	73200.0	400	400	?
H-IIA 202	-	F	Fairing	-	-	2	73200.0	145	-6000	?
H-IIA 202	1	0	H-II SRB-A3	-	-	2	73200.0	70	-6260	?
H-IIA 202	1	1	H-IIA Stage 1	-	-	1	73200.0	250	-4400	?
H-IIA 202	1	2	H-IIA Stage 2	-	-	1	73200.0	400	400	?
H-IIA 202	1	F	Fairing	-	-	2	73200.0	145	-6000	?
H-IIA 204	-	0	H-II SRB-A	-	-	4	73200.0	70	-6260	?
H-IIA 204	-	1	H-IIA Stage 1	-	-	1	73200.0	250	-4400	?
H-IIA 204	-	2	H-IIA Stage 2	-	-	1	73200.0	400	400	?
H-IIA 204	2	0	H-II SRB-A3	-	-	4	73200.0	70	-6260	?
H-IIA 204	2	1	H-IIA Stage 1	-	-	1	73200.0	250	-4400	?
H-IIA 204	2	2	H-IIA Stage 2 U	-	-	1	73200.0	400	400	?
H-IIA 2022	-	-1	Castor 4AXL	-	-	2	73200.0	75	-6250	?
H-IIA 2022	-	0	H-II SRB-A	-	-	2	73200.0	75	-6250	?
H-IIA 2022	-	1	H-IIA Stage 1	-	-	1	73200.0	250	-4500	?
H-IIA 2022	-	2	H-IIA Stage 2	-	-	1	73200.0	500	500	?
H-IIA 2022	-	F	Fairing	-	-	2	73200.0	145	-6000	?
H-IIA 2024	-	-1	Castor 4AXL	-	-	4	73200.0	90	-6190	?
H-IIA 2024	-	0	H-II SRB-A	-	-	2	73200.0	100	-6190	?
H-IIA 2024	-	1	H-IIA Stage 1	-	-	1	73200.0	330	-4340	?
H-IIA 2024	-	2	H-IIA Stage 2	-	-	1	73200.0	500	500	?
H-IIA 2024	-	F	Fairing	-	-	2	73200.0	145	-6000	?
H-IIA 2024	1	-1	Castor 4AXL	-	-	4	73200.0	90	-6190	?
H-IIA 2024	1	0	H-II SRB-A3	-	-	2	73200.0	100	-6190	?
H-IIA 2024	1	1	H-IIA Stage 1	-	-	1	73200.0	330	-4340	?
H-IIA 2024	1	2	H-IIA Stage 2	-	-	1	73200.0	500	500	?
H-IIA 2024	1	F	Fairing	-	-	2	73200.0	145	-6000	?
GSLV Mk III	a	0	GSOM-S200	-	-	2	73200.0	50	-6300	?
GSLV Mk III	a	1	GS1-L110 a	-	-	1	73200.0	50	-6300	?
GSLV Mk III	a	2	GS2-C25 a	-	-	1	73200.0	500	35700	?
GSLV Mk III	-	0	GSOM-S200	-	-	2	73200.0	50	-6300	?
GSLV Mk III	-	1	GS1-L110	-	-	1	73200.0	50	-6300	?
GSLV Mk III	-	2	GS2-C25	-	-	1	73200.0	500	35700	?
LVM3	-	0	GSOM-S200	-	-	2	73200.0	50	-6300	?
LVM3	-	1	GS1-L110	-	-	1	73200.0	50	-6300	?
LVM3	-	2	GS2-C25	-	-	1	73200.0	500	35700	?
Little Joe II	6-1-0	0	Recruit	-	-	6	73200.0	25	-6368	?
Little Joe II	6-1-0	1	Algol 1D	-	-	1	73200.0	25	-6368	?
Little Joe II	4-2-0	0	Recruit	-	-	4	73200.0	25	-6368	?
Little Joe II	4-2-0	1	Algol 1D	-	-	2	73200.0	25	-6368	?
Little Joe II	0-3-3	1	Algol 1D	-	-	6	73200.0	25	-6368	?
Little Joe II	5-2-2	0	Recruit	-	-	5	73200.0	25	-6368	?
Little Joe II	5-2-2	1	Algol 1D	-	-	4	73200.0	25	-6368	?
Antares 110	-	1	Antares Stage 1	-	-	1	73200.0	200	-5200	?
Antares 110	-	2	Castor 30	-	-	1	73200.0	200	200	?
Antares 120	-	1	Antares Stage 1	-	-	1	73200.0	200	-5200	?
Antares 120	-	2	Castor 30B	-	-	1	73200.0	200	200	?
Antares 130	-	1	Antares Stage 1	-	-	1	73200.0	200	-5200	?
Antares 130	-	2	Castor 30XL	-	-	1	73200.0	200	200	?
Antares 230	-	1	Antares 2 Stage 1	-	-	1	73200.0	200	-5200	?
Antares 230	-	2	Castor 30XL	-	-	1	73200.0	200	200	?
Antares 230+	-	1	Antares 2+ Stage 1	-	-	1	73200.0	200	-5200	?
Antares 230+	-	2	Castor 30XL	-	-	1	73200.0	200	200	?
Zenit-2	-	1	11S771	-	-	1	73200.0	150	-6100	?
Zenit-2	-	2	11S772	-	-	1	73200.0	700	700	?
Zenit-2	-	F	GO	-	-	2	73200.0	200	-5000	?
Zenit-2M	-	1	11S771	-	-	1	73200.0	150	-6100	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Zenit-2M	-	2	11S772	-	-	1	73200.0	700	700	?
Zenit-2M	-	F	GO	-	-	2	73200.0	200	-5000	?
Zenit-2 11K77.05	-	1	11S771	-	-	1	73200.0	100	-6200	?
Zenit-2 11K77.05	-	2	11S772	-	-	1	73200.0	900	900	?
Zenit-2 11K77.05	-	F	GO	-	-	2	73200.0	200	-5000	?
Zenit-3SL	-	1	11S771	-	-	1	73200.0	100	-6200	?
Zenit-3SL	-	2	11S772	-	-	1	73200.0	200	-2220	?
Zenit-3SL	-	3	Blok DM-SL	-	-	1	73200.0	2000	200	?
Zenit-3SL	-	F	GO	-	-	2	73200.0	140	-5000	?
Zenit-2SB	-	1	11S771	-	-	1	73200.0	150	-6100	?
Zenit-2SB	-	2	11S772	-	-	1	73200.0	700	700	?
Zenit-2SB	-	F	GO	-	-	2	73200.0	200	-5000	?
Zenit-3F	-	1	11S771	-	-	1	73200.0	100	-6200	?
Zenit-3F	-	2	11S772	-	-	1	73200.0	200	-2220	?
Zenit-3F	-	3	Fregat-SB	-	-	1	73200.0	2000	200	?
Zenit-3F	-	F	GO	-	-	2	73200.0	140	-5000	?
Zenit-3SLB	-	1	11S771	-	-	1	73200.0	100	-6200	?
Zenit-3SLB	-	2	11S772	-	-	1	73200.0	200	-2220	?
Zenit-3SLB	-	3	Blok DM-SLB	-	-	1	73200.0	2000	200	?
Zenit-3SLB	-	F	GO	-	-	2	73200.0	140	-5000	?
Zenit-3SLBF	-	1	11S771	-	-	1	73200.0	100	-6200	?
Zenit-3SLBF	-	2	11S772	-	-	1	73200.0	200	-2220	?
Zenit-3SLBF	-	3	Fregat-SB	-	-	1	73200.0	2000	200	?
Zenit-3SLBF	-	F	GO	-	-	2	73200.0	140	-5000	?
Atlas V 401	-	1	Atlas CCB	-	-	1	73200.0	200	-5000	?
Atlas V 401	-	2	Centaur IIIB/SEC	-	-	1	73200.0	1500	200	?
Atlas V 401	-	F	Fairing	-	-	2	73200.0	200	-4900	?
Atlas V 401	C	1	Atlas CCB	-	-	1	73200.0	200	-5000	?
Atlas V 401	C	2	Centaur IIIB/C-1	-	-	1	73200.0	1500	200	?
Atlas V 401	C	F	Fairing	-	-	2	73200.0	200	-4900	?
Atlas V 411	-	0	Atlas V SRM	-	-	1	73200.0	75	-6100	?
Atlas V 411	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 411	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 411	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 411	C	0	Atlas V SRM	-	-	1	73200.0	75	-6100	?
Atlas V 411	C	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 411	C	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 411	C	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 421	-	0	Atlas V SRM	-	-	2	73200.0	75	-6100	?
Atlas V 421	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 421	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 421	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 421	C	0	Atlas V SRM	-	-	2	73200.0	75	-6100	?
Atlas V 421	C	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 421	C	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 421	C	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 421	C1	0	Atlas V SRM	-	-	2	73200.0	75	-6100	?
Atlas V 421	C1	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 421	C1	2	Centaur IIIB/C-1-1	-	-	1	73200.0	4000	200	?
Atlas V 421	C1	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 421	G1	0	GEM-63	-	-	2	73200.0	75	-6100	?
Atlas V 421	G1	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 421	G1	2	Centaur IIIB/C-1-1	-	-	1	73200.0	4000	200	?
Atlas V 421	G1	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 431	-	0	Atlas V SRM	-	-	3	73200.0	75	-6100	?
Atlas V 431	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 431	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 431	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 431	C	0	Atlas V SRM	-	-	3	73200.0	75	-6100	?
Atlas V 431	C	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 431	C	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 431	C	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 501	-	1	Atlas CCB	-	-	1	73200.0	200	-5000	?
Atlas V 501	-	2	Centaur IIIB/SEC	-	-	1	73200.0	1500	200	?
Atlas V 501	-	F	Fairing	-	-	2	73200.0	200	-4900	?
Atlas V 501	C	1	Atlas CCB	-	-	1	73200.0	200	-5000	?
Atlas V 501	C	2	Centaur IIIB/C-1	-	-	1	73200.0	1500	200	?
Atlas V 501	C	F	Fairing	-	-	2	73200.0	200	-4900	?
Atlas V 521	-	0	Atlas V SRM	-	-	2	73200.0	75	-6100	?
Atlas V 521	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 521	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 521	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 511	G	0	GEM-63	-	-	1	73200.0	75	-6100	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Atlas V 511	G	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 511	G	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 511	G	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 531	-	0	Atlas V SRM	-	-	3	73200.0	75	-6100	?
Atlas V 531	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 531	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 531	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 531	G	0	GEM-63	-	-	3	73200.0	75	-6100	?
Atlas V 531	G	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 531	G	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 531	G	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 531	G1	0	GEM-63	-	-	3	73200.0	75	-6100	?
Atlas V 531	G1	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 531	G1	2	Centaur IIIB/C-1-1	-	-	1	73200.0	4000	200	?
Atlas V 531	G1	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 541	-	0	Atlas V SRM	-	-	4	73200.0	75	-6100	?
Atlas V 541	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 541	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 541	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 541	C	0	Atlas V SRM	-	-	4	73200.0	75	-6100	?
Atlas V 541	C	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 541	C	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 541	C	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 541	G	0	GEM-63	-	-	4	73200.0	75	-6100	?
Atlas V 541	G	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 541	G	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 541	G	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 551	-	0	Atlas V SRM	-	-	5	73200.0	75	-6100	?
Atlas V 551	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 551	-	2	Centaur IIIB/SEC	-	-	1	73200.0	4000	200	?
Atlas V 551	-	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 551	C	0	Atlas V SRM	-	-	5	73200.0	75	-6100	?
Atlas V 551	C	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 551	C	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 551	C	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V 551	G	0	GEM-63	-	-	5	73200.0	75	-6100	?
Atlas V 551	G	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V 551	G	2	Centaur IIIB/C-1	-	-	1	73200.0	4000	200	?
Atlas V 551	G	F	Fairing	-	-	2	73200.0	150	-5500	?
Atlas V N22	-	0	Atlas V SRM	-	-	2	73200.0	75	-6100	?
Atlas V N22	-	1	Atlas CCB	-	-	1	73200.0	350	-3850	?
Atlas V N22	-	2	Centaur IIIB/DEC2	-	-	1	73200.0	4000	200	?
Ariane 1	-	1	Ariane L144	-	-	1	73200.0	80	-6130	?
Ariane 1	-	2	Ariane L33	-	-	1	73200.0	160	-4530	?
Ariane 1	-	3	Ariane H8	-	-	1	73200.0	37800	200	?
Ariane 1	-	F	Ariane Fairing	-	-	2	73200.0	130	-5600	?
Ariane 2	-	1	Ariane L144	-	-	1	73200.0	75	-6120	?
Ariane 2	-	2	Ariane L33	-	-	1	73200.0	160	-4760	?
Ariane 2	-	3	Ariane H10	-	-	1	73200.0	37800	200	?
Ariane 2	-	F	Ariane Fairing	-	-	2	73200.0	130	-5600	?
Ariane 3	-	0	PAP	-	-	2	73200.0	4	-6370	?
Ariane 3	-	1	Ariane L144	-	-	1	73200.0	87	-6060	?
Ariane 3	-	2	Ariane L33	-	-	1	73200.0	160	-4500	?
Ariane 3	-	3	Ariane H10	-	-	1	73200.0	37800	200	?
Ariane 3	-	F	Ariane Fairing	-	-	2	73200.0	130	-5600	?
Ariane 40	40	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 40	40	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 40	40	3	Ariane H10	-	-	1	45144.0	800	800	?
Ariane 40	40	F	Ariane Fairing	-	-	2	45144.0	130	-5600	?
Ariane 40	40+	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 40	40+	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 40	40+	3	Ariane H10+	-	-	1	47025.0	800	800	?
Ariane 40	40+	F	Ariane Fairing	-	-	2	47025.0	130	-5600	?
Ariane 40	40-3	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 40	40-3	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 40	40-3	3	Ariane H10-3	-	-	1	48906.0	800	800	?
Ariane 40	40-3	F	Ariane Fairing	-	-	2	48906.0	130	-5600	?
Ariane 42L	42L	0	PAL	-	-	2	212380.0	5	-6300	?
Ariane 42L	42L	1	Ariane L220	-	-	1	621970.0	90	-5720	?
Ariane 42L	42L	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 42L	42L	3	Ariane H10	-	-	1	45144.0	35787	200	?
Ariane 42L	42L	F	Ariane Fairing	-	-	2	45144.0	130	-5600	?
Ariane 42L	42L+	0	PAL	-	-	2	212380.0	5	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Ariane 42L	42L+	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 42L	42L+	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 42L	42L+	3	Ariane H10+	-	-	1	47025.0	35787	200	?
Ariane 42L	42L+	F	Ariane Fairing	-	-	2	47025.0	130	-5600	?
Ariane 42L	42L-3	0	PAL	-	-	2	212380.0	5	-6300	?
Ariane 42L	42L-3	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 42L	42L-3	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 42L	42L-3	3	Ariane H10-3	-	-	1	48906.0	35787	200	?
Ariane 42L	42L-3	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Ariane 42P	42P	0	PAP	-	-	2	54600.0	5	-6300	?
Ariane 42P	42P	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 42P	42P	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 42P	42P	3	Ariane H10	-	-	1	48906.0	35787	200	?
Ariane 42P	42P	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Ariane 42P	42P+	0	PAP	-	-	2	54600.0	5	-6300	?
Ariane 42P	42P+	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 42P	42P+	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 42P	42P+	3	Ariane H10+	-	-	1	47025.0	35787	200	?
Ariane 42P	42P+	F	Ariane 4	-	-	2	47025.0	140	-5400	?
Ariane 42P	42P-3	0	PAP	-	-	2	54600.0	5	-6300	?
Ariane 42P	42P-3	1	Ariane L220	-	-	1	621970.0	80	-5800	?
Ariane 42P	42P-3	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 42P	42P-3	3	Ariane H10-3	-	-	1	48906.0	35787	200	?
Ariane 42P	42P-3	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Ariane 44L	44L	0	PAL	-	-	4	424760.0	50	-6170	?
Ariane 44L	44L	1	Ariane L220	-	-	1	621970.0	90	-5720	?
Ariane 44L	44L	2	Ariane L33	-	-	1	98910.0	180	-3700	?
Ariane 44L	44L	3	Ariane H10	-	-	1	45144.0	35787	200	?
Ariane 44L	44L	F	Ariane 4	-	-	2	45144.0	140	-5400	?
Ariane 44L	44L+	0	PAL	-	-	4	424760.0	50	-6170	?
Ariane 44L	44L+	1	Ariane L220	-	-	1	621970.0	100	-5720	?
Ariane 44L	44L+	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44L	44L+	3	Ariane H10+	-	-	1	47025.0	35787	200	?
Ariane 44L	44L+	F	Ariane 4	-	-	2	47025.0	140	-5400	?
Ariane 44L	44L-3	0	PAL	-	-	4	424760.0	50	-6170	?
Ariane 44L	44L-3	1	Ariane L220	-	-	1	621970.0	100	-5720	?
Ariane 44L	44L-3	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44L	44L-3	3	Ariane H10-3	-	-	1	48906.0	35787	200	?
Ariane 44L	44L-3	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Ariane 44LP	44LP	-1	PAL	-	-	2	212380.0	50	-6200	?
Ariane 44LP	44LP	0	PAP	-	-	2	54600.0	5	-6370	?
Ariane 44LP	44LP	1	Ariane L220	-	-	1	621970.0	90	-5800	?
Ariane 44LP	44LP	2	Ariane L33	-	-	1	98910.0	180	-3800	?
Ariane 44LP	44LP	3	Ariane H10	-	-	1	45144.0	35787	200	?
Ariane 44LP	44LP	F	Ariane 4	-	-	2	45144.0	140	-5400	?
Ariane 44LP	44LP+	-1	PAL	-	-	2	212380.0	50	-6200	?
Ariane 44LP	44LP+	0	PAP	-	-	2	54600.0	5	-6370	?
Ariane 44LP	44LP+	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 44LP	44LP+	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44LP	44LP+	3	Ariane H10+	-	-	1	47025.0	35787	200	?
Ariane 44LP	44LP+	F	Ariane 4	-	-	2	47025.0	140	-5400	?
Ariane 44LP	44LP-3	-1	PAL	-	-	2	212380.0	50	-6200	?
Ariane 44LP	44LP-3	0	PAP	-	-	2	54600.0	5	-6370	?
Ariane 44LP	44LP-3	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 44LP	44LP-3	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44LP	44LP-3	3	Ariane H10-3	-	-	1	48906.0	35787	200	?
Ariane 44LP	44LP-3	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Ariane 44P	44P	0	PAP	-	-	4	102900.0	5	-6370	?
Ariane 44P	44P	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 44P	44P	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44P	44P	3	Ariane H10	-	-	1	45144.0	35787	200	?
Ariane 44P	44P	F	Ariane 4	-	-	2	45144.0	140	-5400	?
Ariane 44P	44P-3	0	PAP	-	-	4	102900.0	5	-6370	?
Ariane 44P	44P-3	1	Ariane L220	-	-	1	621970.0	100	-5700	?
Ariane 44P	44P-3	2	Ariane L33	-	-	1	98910.0	200	-3700	?
Ariane 44P	44P-3	3	Ariane H10-3	-	-	1	48906.0	35787	200	?
Ariane 44P	44P-3	F	Ariane 4	-	-	2	48906.0	140	-5400	?
Tianlong-3	-	1	Tianlong-3 Stage 1	-	-	1	48906.0	0	0	?
Tianlong-3	-	2	Tianlong-3 Stage 2	-	-	1	48906.0	0	0	?
Tianlong-3 S1	-	1	Tianlong-3 Stage 1	-	-	1	48906.0	0	0	?
Longxing-2	-	1	Longxing-2 St 1	-	-	1	48906.0	0	0	?
Chang Zheng 12	-	1	CZ-12 Stage 1	-	-	1	48906.0	0	0	?
Chang Zheng 12	-	2	CZ-12 Stage 2	-	-	1	48906.0	0	0	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Ares I-X	-	1	Ares I-X	-	-	1	48906.0	45	-6200	?
LM AS	-	1	LM AS	-	-	1	48906.0	0	0	?
Dragon V2	-	1	Dragon V2	-	-	1	48906.0	1	-6300	?
Falcon Heavy	-	0	Falcon 9 St 1	-	-	2	48906.0	100	-6100	?
Falcon Heavy	-	1	Falcon 9 St 1	-	-	1	48906.0	100	-6100	?
Falcon Heavy	-	2	Falcon 9 St 2	-	-	1	48906.0	200	200	?
Falcon 9	-	1	Falcon 9 St 1	-	-	1	48906.0	100	-6100	?
Falcon 9	-	2	Falcon 9 St 2	-	-	1	48906.0	200	200	?
Falcon 9	FT5	1	Falcon 9 St 1/1D-5	-	-	1	48906.0	100	-6100	?
Falcon 9	FT5	2	Falcon 9 St 2/1D-5	-	-	1	48906.0	200	200	?
Falcon 9	FT4/5	1	Falcon 9 St 1/1D-4	-	-	1	48906.0	100	-6100	?
Falcon 9	FT4/5	2	Falcon 9 St 2/1D-5	-	-	1	48906.0	200	200	?
Falcon 9	FT4	1	Falcon 9 St 1/1D-4	-	-	1	48906.0	100	-6100	?
Falcon 9	FT4	2	Falcon 9 St 2/1D-4	-	-	1	48906.0	200	200	?
Falcon 9	FT3	1	Falcon 9 St 1/1D-FT	-	-	1	48906.0	100	-6100	?
Falcon 9	FT3	2	Falcon 9 St 2/1D	-	-	1	48906.0	200	200	?
Falcon 9	1.1	1	Falcon 9 St 1/1D	-	-	1	48906.0	100	-6100	?
Falcon 9	1.1	2	Falcon 9 St 2/1D	-	-	1	48906.0	200	200	?
Falcon 9	FT3/4	1	Falcon 9 St 1/1D-FT	-	-	1	48906.0	100	-6100	?
Falcon 9	FT3/4	2	Falcon 9 St 2/1D-4	-	-	1	48906.0	200	200	?
Grasshopper	-	1	Falcon 9-1D	-	-	1	48906.0	0	-6378	?
Falcon 9R	1	1	Falcon 9 St 1/1D	-	-	1	48906.0	10	-6370	?
Nuri	-	1	KSLV-II Stage 1	-	-	1	48906.0	50	-6370	?
Nuri	-	2	KSLV-II Stage 2	-	-	1	48906.0	200	-5000	?
Nuri	-	3	KSLV-II Stage 3	-	-	1	48906.0	200	200	?
Vega C	-	1	Vega P120C	-	-	1	48906.0	50	-6000	?
Vega C	-	2	Zefiro 40	-	-	1	48906.0	200	-5000	?
Vega C	-	3	Zefiro 9	-	-	1	48906.0	200	50	?
Vega C	-	4	AVUM+	-	-	1	48906.0	500	500	?
X-15	-	0	NB-52	-	-	1	48906.0	14	-6378	?
X-15	-	1	X-15	-	-	1	48906.0	100	-6200	?
X-15	1	0	NB-52	-	-	1	48906.0	14	-6378	?
X-15	1	1	X-15 XLR-11	-	-	1	48906.0	100	-6200	?
Zhuque-2	-	1	ZQ-2 Stage 1	-	-	1	48906.0	100	-6300	?
Zhuque-2	-	2	ZQ-2 Stage 2	-	-	1	48906.0	500	500	?
Zhuque-2E	-	1	ZQ-2E Stage 1	-	-	1	48906.0	100	-6300	?
Zhuque-2E	-	2	ZQ-2E Stage 2	-	-	1	48906.0	500	500	?
Zhuque-2E	1	1	ZQ-2E-1 Stage 1	-	-	1	48906.0	100	-6300	?
Zhuque-2E	1	2	ZQ-2E Stage 2	-	-	1	48906.0	500	500	?
Dong Feng 5	-	1	DF-5 Stage 1	-	-	1	48906.0	100	-5500	?
Dong Feng 5	-	2	DF-5 Stage 2	-	-	1	48906.0	1000	-4000	?
Dong Feng 5A	-	1	DF-5 Stage 1	-	-	1	48906.0	100	-5500	?
Dong Feng 5A	-	2	DF-5 Stage 2	-	-	1	48906.0	1000	-4000	?
Dong Feng 5C	-	1	DF-5 Stage 1	-	-	1	48906.0	100	-5500	?
Dong Feng 5C	-	2	DF-5 Stage 2	-	-	1	48906.0	1000	-4000	?
Feng Bao 1	-	1	FB-1 Stage 1	-	-	1	48906.0	100	-6000	?
Feng Bao 1	-	2	FB-1 Stage 2	-	-	1	48906.0	200	200	?
Feng Bao 1	-	F	Fairing	-	-	2	48906.0	100	-6000	?
Chang Zheng 2	-	1	CZ-2 Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2	-	2	CZ-2 Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C	-	1	CZ-2C Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C	-	2	CZ-2C Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C	a	1	CZ-2C Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C	a	2	CZ-2Ca Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C	b	1	CZ-2Ca Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C	b	2	CZ-2Ca Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C	SM	1	CZ-2C Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C	SM	2	CZ-2Ca Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C	SMA	1	CZ-2Ca Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C	SMA	2	CZ-2Ca Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C/YZ-1S	-	1	CZ-2Ca Stage 1	-	-	1	48906.0	100	-5500	?
Chang Zheng 2C/YZ-1S	-	2	CZ-2Ca Stage 2	-	-	1	48906.0	300	200	?
Chang Zheng 2C/YZ-1S	-	3	YZ-1S	-	-	1	48906.0	700	700	?
Chang Zheng 2C-III/SD	-	1	CZ-2C Stage 1	-	-	1	48906.0	85	-6180	?
Chang Zheng 2C-III/SD	-	2	CZ-2Ca Stage 2	-	-	1	48906.0	600	180	?
Chang Zheng 2C-III/SD	-	3	Smart Dispenser	-	-	1	48906.0	600	600	?
Chang Zheng 2C-III/SD	-	F	Fairing	-	-	2	48906.0	120	-5560	?
Chang Zheng 2D	a	1	CZ-4 Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2D	a	2	CZ-4 Stage 2	-	-	1	48906.0	300	170	?
Chang Zheng 2D	-	1	CZ-4 Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2D	-	2	CZ-4 Stage 2j	-	-	1	48906.0	300	170	?
Chang Zheng 2D/YZ-3	-	1	CZ-4 Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2D/YZ-3	-	2	CZ-4 Stage 2j	-	-	1	48906.0	300	170	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Chang Zheng 2D/YZ-3	-	3	YZ-3	-	-	1	48906.0	1000	1000	?
Chang Zheng 2E	-	0	CZ Booster	-	-	4	48906.0	60	-6300	?
Chang Zheng 2E	-	1	CZ-2E Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2E	-	2	CZ-2E Stage 2	-	-	1	48906.0	1000	200	?
Chang Zheng 2E	-	F	Fairing	-	-	2	48906.0	150	-5500	?
Chang Zheng 2F	-	0	CZ Booster	-	-	4	48906.0	60	-6300	?
Chang Zheng 2F	-	1	CZ-2E Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2F	-	2	CZ-2E Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 2F	-	F	Fairing	-	-	2	48906.0	150	-5500	?
Chang Zheng 2F	-	F	LES	-	-	1	48906.0	40	-6300	?
Chang Zheng 2F	G	0	CZ Booster	-	-	4	48906.0	60	-6300	?
Chang Zheng 2F	G	1	CZ-2E Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2F	G	2	CZ-2E Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 2F	G	F	Fairing	-	-	2	48906.0	150	-5500	?
Chang Zheng 2F	G	F	LES	-	-	1	48906.0	40	-6300	?
Chang Zheng 2F	T	0	CZ Booster	-	-	4	48906.0	60	-6300	?
Chang Zheng 2F	T	1	CZ-2E Stage 1	-	-	1	48906.0	120	-5500	?
Chang Zheng 2F	T	2	CZ-2E Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 2F	T	F	Fairing	-	-	2	48906.0	150	-5500	?
Chang Zheng 3	-	1	CZ-3 Stage 1	-	-	1	48906.0	90	-6000	?
Chang Zheng 3	-	2	CZ-3 Stage 2	-	-	1	48906.0	170	-5100	?
Chang Zheng 3	-	3	CZ-3 Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3	-	F	Fairing	-	-	2	48906.0	150	-5500	?
Chang Zheng 3A	-	1	CZ-3A Stage 1	-	-	1	48906.0	90	-6000	?
Chang Zheng 3A	-	2	CZ-3A Stage 2	-	-	1	48906.0	170	-5130	?
Chang Zheng 3A	-	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3A	-	F	Fairing	-	-	2	48906.0	150	-5440	?
Chang Zheng 3B	-	0	CZ Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B	-	1	CZ-3A Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B	-	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B	-	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B	-	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3B	G1	0	CZ-3BE Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B	G1	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B	G1	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B	G1	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B	G1	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3B	G2	0	CZ-3BE Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B	G2	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B	G2	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B	G2	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B	G2	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3B	G3	0	CZ-3BE Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B	G3	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B	G3	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B	G3	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B	G3	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3B	G5	0	CZ-3BE Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B	G5	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B	G5	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B	G5	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B	G5	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3C	-	0	CZ Booster	-	-	2	48906.0	105	-6040	?
Chang Zheng 3C	-	1	CZ-3A Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3C	-	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3C	-	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3C	-	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3C	G2	0	CZ-3BE Booster	-	-	2	48906.0	105	-6040	?
Chang Zheng 3C	G2	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3C	G2	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3C	G2	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3C	G2	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3C/YZ-1	-	0	CZ-3BE Booster	-	-	2	48906.0	105	-6040	?
Chang Zheng 3C/YZ-1	-	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3C/YZ-1	-	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3C/YZ-1	-	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3C/YZ-1	-	4	YZ-1	-	-	1	48906.0	200	35780	?
Chang Zheng 3C/YZ-1	-	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 3B/YZ-1	G3Z	0	CZ-3BE Booster	-	-	4	48906.0	105	-6040	?
Chang Zheng 3B/YZ-1	G3Z	1	CZ-3BE Stage 1	-	-	1	48906.0	135	-5900	?
Chang Zheng 3B/YZ-1	G3Z	2	CZ-3B Stage 2	-	-	1	48906.0	200	-4120	?
Chang Zheng 3B/YZ-1	G3Z	3	CZ-3A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 3B/YZ-1	G3Z	4	YZ-1	-	-	1	48906.0	200	35780	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Chang Zheng 3B/YZ-1	G3Z	F	Fairing	-	-	2	48906.0	170	-5600	?
Chang Zheng 6	-	1	CZ6-C	-	-	1	48906.0	50	-6370	?
Chang Zheng 6	-	2	CZ-K2-2	-	-	1	48906.0	200	200	?
Chang Zheng 6	-	3	CZ-K2-3	-	-	1	48906.0	200	200	?
Chang Zheng 6A	-	0	CZ-6A Booster	-	-	4	48906.0	50	-6370	?
Chang Zheng 6A	-	1	CZ6A-C	-	-	1	48906.0	50	-6370	?
Chang Zheng 6A	-	2	CZ-6A Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 6C	-	1	CZ6-C	-	-	1	48906.0	50	-6370	?
Chang Zheng 6C	-	2	CZ-K2-2	-	-	1	48906.0	200	200	?
Chang Zheng 7	-	0	CZ-K2-1	-	-	4	48906.0	50	-6370	?
Chang Zheng 7	-	1	CZ-7 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 7	-	2	CZ-7 Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 7A	-	0	CZ-K2-1	-	-	4	48906.0	50	-6370	?
Chang Zheng 7A	-	1	CZ-7 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 7A	-	2	CZ-7 Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 7A	-	3	CZ-7A Stage 3	-	-	1	48906.0	200	200	?
Chang Zheng 7/YZ-1A	-	0	CZ-K2-1	-	-	4	48906.0	50	-6370	?
Chang Zheng 7/YZ-1A	-	1	CZ-7 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 7/YZ-1A	-	2	CZ-7 Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 7/YZ-1A	-	3	YZ-1A	-	-	1	48906.0	200	200	?
Chang Zheng 8	-	0	CZ-K2-1	-	-	2	48906.0	50	-6370	?
Chang Zheng 8	-	1	CZ-8 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 8	-	2	CZ-8 Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 8	0	1	CZ-8 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 8	0	2	CZ-8 Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 8A	-	0	CZ-K2-1	-	-	2	48906.0	50	-6370	?
Chang Zheng 8A	-	1	CZ-8 Stage 1	-	-	1	48906.0	50	-6370	?
Chang Zheng 8A	-	2	CZ-8A Stage 2	-	-	1	48906.0	200	200	?
Chang Zheng 4	-	1	CZ-4 Stage 1	-	-	1	48906.0	100	-6100	?
Chang Zheng 4	-	2	CZ-4 Stage 2	-	-	1	48906.0	300	-5000	?
Chang Zheng 4	-	3	CZ-4 Stage 3	-	-	1	48906.0	900	900	?
Chang Zheng 4	-	F	Fairing	-	-	2	48906.0	100	-6100	?
Chang Zheng 4B	-	1	CZ-4 Stage 1	-	-	1	48906.0	100	-6100	?
Chang Zheng 4B	-	2	CZ-4B Stage 2	-	-	1	48906.0	300	-5000	?
Chang Zheng 4B	-	3	CZ-4B Stage 3	-	-	1	48906.0	900	900	?
Chang Zheng 4B	-	F	Fairing	-	-	2	48906.0	100	-6100	?
Chang Zheng 4C	-	1	CZ-4 Stage 1	-	-	1	48906.0	100	-6100	?
Chang Zheng 4C	-	2	CZ-4B Stage 2	-	-	1	48906.0	300	-5000	?
Chang Zheng 4C	-	3	CZ-4C Stage 3	-	-	1	48906.0	900	900	?
Chang Zheng 4C	-	F	Fairing	-	-	2	48906.0	100	-6100	?
Tianlong-2	-	1	TL2 Stage 1	-	-	1	48906.0	100	-6100	?
Tianlong-2	-	2	TL2 Stage 2	-	-	1	48906.0	100	-6100	?
Tianlong-2	-	3	TL2 Stage 3	-	-	1	48906.0	100	-6100	?
Titan I	-	1	LR87	-	-	1	48906.0	100	-5950	?
Titan I	-	2	LR91	-	-	1	48906.0	1000	-3200	?
Titan II	-	1	LR87AJ5	-	-	1	48906.0	110	-5950	?
Titan II	-	2	LR91AJ5	-	-	1	48906.0	1300	-3000	?
Titan II GLV	-	1	LR87AJ5	-	-	1	48906.0	120	-5950	?
Titan II GLV	-	2	LR91AJ5	-	-	1	48906.0	180	180	?
Titan II SLV	-	1	LR87AJ5	-	-	1	48906.0	120	-5950	?
Titan II SLV	-	2	LR91AJ5	-	-	1	48906.0	200	200	?
Titan II SLV	-	F	LR91AJ5	-	-	2	48906.0	140	-5000	?
Titan IIIA	-	1	LR87AJ9	-	-	1	48906.0	90	-6300	?
Titan IIIA	-	2	LR91AJ9	-	-	1	48906.0	160	-5500	?
Titan IIIA	-	3	Transtage	-	-	1	48906.0	200	200	?
Titan IIIA	-	F	Fairing	-	-	2	48906.0	130	-6200	?
Titan IIIB	-	1	LR87AJ9	-	-	1	48906.0	90	-6300	?
Titan IIIB	-	2	LR91AJ9	-	-	1	48906.0	130	-5000	?
Titan IIIB	-	3	Agena D	-	-	1	48906.0	200	200	?
Titan IIIC	-	0	UA1205	-	-	2	48906.0	55	-6300	?
Titan IIIC	-	1	LR87AJ11	-	-	1	48906.0	120	-5060	?
Titan IIIC	-	2	LR91AJ11	-	-	1	48906.0	160	-500	?
Titan IIIC	-	3	Transtage	-	-	1	48906.0	200	200	?
Titan IIIC	-	F	Fairing	-	-	3	48906.0	135	-4800	?
Titan IIID	-	0	UA1205	-	-	2	48906.0	55	-6300	?
Titan IIID	-	1	LR87AJ11	-	-	1	48906.0	120	-5060	?
Titan IIID	-	2	LR91AJ11	-	-	1	48906.0	200	200	?
Titan IIID	-	F	Fairing	-	-	2	48906.0	130	-4800	?
Titan IIIE	-	0	UA1205	-	-	2	48906.0	50	-6300	?
Titan IIIE	-	1	LR87AJ11	-	-	1	48906.0	120	-5000	?
Titan IIIE	-	2	LR91AJ11	-	-	1	48906.0	180	-3000	?
Titan IIIE	-	3	Centaur D-1T	-	-	1	48906.0	200	200	?
Titan IIIE	-	F	Fairing	-	-	2	48906.0	140	-4800	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Titan 23B	-	1	LR87AJ11	-	-	1	48906.0	90	-6300	?
Titan 23B	-	2	LR91AJ11	-	-	1	48906.0	130	-5000	?
Titan 23B	-	3	Agena D	-	-	1	48906.0	200	200	?
Titan 24B	-	1	LR87AJ11	-	-	1	48906.0	90	-6300	?
Titan 24B	-	2	LR91AJ11	-	-	1	48906.0	130	-5000	?
Titan 24B	-	3	Agena D	-	-	1	48906.0	200	200	?
Titan 33B	-	1	LR87AJ11	-	-	1	48906.0	90	-6300	?
Titan 33B	-	2	LR91AJ11	-	-	1	48906.0	130	-5000	?
Titan 33B	-	3	Agena D	-	-	1	48906.0	200	200	?
Titan 33B	-	F	Fairing	-	-	2	48906.0	130	-5000	?
Titan 34B	-	1	LR87AJ11	-	-	1	48906.0	90	-6300	?
Titan 34B	-	2	LR91AJ11	-	-	1	48906.0	130	-5000	?
Titan 34B	-	3	Agena D	-	-	1	48906.0	200	200	?
Titan 34B	-	F	Fairing	-	-	2	48906.0	130	-5000	?
Titan 34D	-	0	UA1206	-	-	2	48906.0	45	-6200	?
Titan 34D	-	1	LR87AJ11	-	-	1	48906.0	140	-5000	?
Titan 34D	-	2	LR91AJ11	-	-	1	48906.0	200	200	?
Titan 34D	-	F	PLF	-	-	2	48906.0	150	-4800	?
Titan 34D/Transtage	-	0	UA1206	-	-	2	48906.0	45	-6200	?
Titan 34D/Transtage	-	1	LR87AJ11	-	-	1	48906.0	140	-5000	?
Titan 34D/Transtage	-	2	LR91AJ11	-	-	1	48906.0	200	200	?
Titan 34D/Transtage	-	3	Transtage	-	-	1	48906.0	200	200	?
Titan 34D/Transtage	-	F	PLF	-	-	2	48906.0	150	-4800	?
Titan 34D/IUS	-	0	UA1206	-	-	2	48906.0	45	-6200	?
Titan 34D/IUS	-	1	LR87AJ11	-	-	1	48906.0	140	-5000	?
Titan 34D/IUS	-	2	LR91AJ11	-	-	1	48906.0	200	200	?
Titan 34D/IUS	-	3	IUS SRM-1	-	-	1	48906.0	200	200	?
Titan 34D/IUS	-	4	IUS SRM-2	-	-	1	48906.0	200	200	?
Titan 34D/IUS	-	F	PLF	-	-	2	48906.0	150	-4800	?
Commercial Titan 3	-	0	UA1205	-	-	2	48906.0	45	-6200	?
Commercial Titan 3	-	1	LR87AJ11	-	-	1	48906.0	140	-5000	?
Commercial Titan 3	-	2	LR91AJ11	-	-	1	48906.0	200	200	?
Commercial Titan 3	-	F	PLF	-	-	2	48906.0	150	-4800	?
Titan 401A/Centaur	-	0	UA1207	-	-	2	48906.0	60	-6200	?
Titan 401A/Centaur	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 401A/Centaur	-	2	LR91AJ11A	-	-	1	48906.0	220	-3000	?
Titan 401A/Centaur	-	3	Centaur T	-	-	1	48906.0	200	200	?
Titan 401A/Centaur	-	F	PLF	-	-	2	48906.0	120	-5500	?
Titan 402A/IUS	-	0	UA1207	-	-	2	48906.0	60	-6200	?
Titan 402A/IUS	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 402A/IUS	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 402A/IUS	-	3	IUS SRM-1	-	-	1	48906.0	200	200	?
Titan 402A/IUS	-	4	IUS SRM-2	-	-	1	48906.0	200	200	?
Titan 402A/IUS	-	F	PLF	-	-	2	48906.0	130	-5500	?
Titan 403A	-	0	UA1207	-	-	2	48906.0	60	-6200	?
Titan 403A	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 403A	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 403A	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Titan 404A	-	0	UA1207	-	-	2	48906.0	60	-6200	?
Titan 404A	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 404A	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 404A	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Titan 405A	-	0	UA1207	-	-	2	48906.0	60	-6200	?
Titan 405A	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 405A	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 405A	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Titan 401B/Centaur	-	0	SRMU	-	-	2	48906.0	75	-6200	?
Titan 401B/Centaur	-	1	LR87AJ11A	-	-	1	48906.0	185	-5000	?
Titan 401B/Centaur	-	2	LR91AJ11A	-	-	1	48906.0	220	-2200	?
Titan 401B/Centaur	-	3	Centaur T	-	-	1	48906.0	220	220	?
Titan 401B/Centaur	-	F	PLF	-	-	2	48906.0	120	-5500	?
Titan 402B/IUS	-	0	SRMU	-	-	2	48906.0	75	-6200	?
Titan 402B/IUS	-	1	LR87AJ11A	-	-	1	48906.0	180	-5000	?
Titan 402B/IUS	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 402B/IUS	-	3	IUS SRM-1	-	-	1	48906.0	200	200	?
Titan 402B/IUS	-	4	IUS SRM-2	-	-	1	48906.0	200	200	?
Titan 402B/IUS	-	F	Fairing	-	-	2	48906.0	130	-5500	?
Titan 403B	-	0	SRMU	-	-	2	48906.0	75	-6200	?
Titan 403B	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 403B	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 403B	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Titan 404B	-	0	SRMU	-	-	2	48906.0	75	-6200	?
Titan 404B	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Titan 404B	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 404B	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Titan 405B	-	0	SRMU	-	-	2	48906.0	75	-6200	?
Titan 405B	-	1	LR87AJ11A	-	-	1	48906.0	160	-5000	?
Titan 405B	-	2	LR91AJ11A	-	-	1	48906.0	200	200	?
Titan 405B	-	F	Fairing	-	-	2	48906.0	120	-5500	?
Blue Streak	-	1	Blue Streak	-	-	1	48906.0	240	-5800	?
ELDO A	-	1	Blue Streak	-	-	1	48906.0	200	-5800	?
ELDO A	-	2	Coralie	-	-	1	48906.0	250	-5200	?
ELDO A	-	3	Astris	-	-	1	48906.0	250	250	?
ELDO A	-	F	Fairing	-	-	2	48906.0	200	-5800	?
Europa I	-	1	Blue Streak	-	-	1	48906.0	200	-5800	?
Europa I	-	2	Coralie	-	-	1	48906.0	250	-5200	?
Europa I	-	3	Astris	-	-	1	48906.0	250	250	?
Europa I	-	F	Fairing	-	-	1	48906.0	200	-5800	?
Europa II	-	1	Blue Streak	-	-	1	48906.0	27	-6370	?
Europa II	-	2	Coralie	-	-	1	48906.0	250	-5200	?
Europa II	-	3	Astris	-	-	1	48906.0	250	250	?
Europa II	-	4	P068	-	-	1	48906.0	250	250	?
Europa II	-	F	Fairing	-	-	1	48906.0	200	-5800	?
Atlas A	-	0	Atlas A Booster	-	-	1	48906.0	120	-6100	?
Atlas A	-	1	Atlas A	-	-	1	48906.0	120	-6100	?
Atlas B	-	0	Atlas B Booster	-	-	1	48906.0	120	-6100	?
Atlas B	-	1	Atlas B	-	-	1	48906.0	900	-4000	?
Atlas C	-	0	Atlas C Booster	-	-	1	48906.0	120	-6100	?
Atlas C	-	1	Atlas C	-	-	1	48906.0	900	-4000	?
Atlas D	-	0	Atlas D Booster	-	-	1	48906.0	120	-6100	?
Atlas D	-	1	Atlas D	-	-	1	48906.0	1000	-2700	?
Atlas E	-	0	Atlas E/F Booster	-	-	1	48906.0	172	-6031	?
Atlas E	-	1	Atlas E	-	-	1	48906.0	1017	-3500	?
Atlas F	-	0	Atlas E/F Booster	-	-	1	48906.0	143	-6110	?
Atlas F	-	1	Atlas F	-	-	1	48906.0	1000	-3450	?
Atlas F/Trident	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/Trident	-	1	Atlas F	-	-	1	48906.0	1000	-3000	?
Atlas F/Trident	-	2	Trident	-	-	1	48906.0	1000	-3000	?
Atlas F/Trident	-	F	Fairing	-	-	2	48906.0	1000	-3000	?
Atlas E/Trident	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E/Trident	-	1	Atlas E	-	-	1	48906.0	1000	-3000	?
Atlas E/Trident	-	2	Trident	-	-	1	48906.0	1000	-3000	?
Atlas E/Trident	-	F	Fairing	-	-	2	48906.0	1000	-3000	?
Atlas C Able	-	0	Atlas C Booster	-	-	1	48906.0	0	-6378	?
Atlas C Able	-	1	Atlas C	-	-	1	48906.0	0	-6378	?
Atlas C Able	-	2	AJ10-101A	-	-	1	48906.0	0	-6378	?
Atlas C Able	-	3	Altair	-	-	1	48906.0	0	-6378	?
Atlas C Able	-	F	Fairing	-	-	2	48906.0	0	-6378	?
Atlas F/Agena D	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/Agena D	-	1	Atlas F	-	-	1	48906.0	780	-3500	?
Atlas F/Agena D	-	2	Agena D	-	-	1	48906.0	780	100	?
Atlas F/Agena D	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas F/MSD	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/MSD	-	1	Atlas F	-	-	1	48906.0	1050	-800	?
Atlas F/MSD	-	2	MSD	-	-	1	48906.0	1000	1000	?
Atlas F/MSD	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas E/MSD	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E/MSD	-	1	Atlas E	-	-	1	48906.0	1050	-800	?
Atlas E/MSD	-	2	MSD	-	-	1	48906.0	1000	1000	?
Atlas E/MSD	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas E Altair	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E Altair	-	1	Atlas E	-	-	1	48906.0	740	-3550	?
Atlas E Altair	-	2	Star 20	-	-	1	48906.0	740	740	?
Atlas E Altair	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas F/OIS	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/OIS	-	1	Atlas F	-	-	1	48906.0	600	-1900	?
Atlas F/OIS	-	2	OIS	-	-	1	48906.0	600	600	?
Atlas F/OIS	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas E/OIS	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E/OIS	-	1	Atlas E	-	-	1	48906.0	800	-2000	?
Atlas E/OIS	-	2	OIS	-	-	1	48906.0	800	600	?
Atlas E/OIS	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas F/PTS	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/PTS	-	1	Atlas F	-	-	1	48906.0	200	-2450	?
Atlas F/PTS	-	2	Star 37E	-	-	1	48906.0	13600	190	?
Atlas F/PTS	-	F	Fairing	-	-	2	48906.0	200	-6000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Atlas E/SVS	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E/SVS	-	1	Atlas E	-	-	1	48906.0	750	-2800	?
Atlas E/SVS	-	2	Star 37E	-	-	1	48906.0	1800	-1000	?
Atlas E/SVS	-	3	Star 37E	-	-	1	48906.0	20200	190	?
Atlas E/SVS	-	F	Fairing	-	-	2	48906.0	300	-6000	?
Atlas F/SVS	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas F/SVS	-	1	Atlas F	-	-	1	48906.0	750	-2800	?
Atlas F/SVS	-	2	Star 37E	-	-	1	48906.0	1800	-1000	?
Atlas F/SVS	-	3	Star 37E	-	-	1	48906.0	20200	190	?
Atlas F/SVS	-	F	Fairing	-	-	2	48906.0	300	-6000	?
Atlas E/SGS-2	-	0	Atlas E/F Booster	-	-	1	48906.0	120	-6100	?
Atlas E/SGS-2	-	1	Atlas E	-	-	1	48906.0	550	-4850	?
Atlas E/SGS-2	-	2	Star 48	-	-	1	48906.0	550	-2800	?
Atlas E/SGS-2	-	3	Star 48	-	-	1	48906.0	20900	550	?
Atlas E/SGS-2	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas SLV-3	-	0	Atlas Booster	-	-	1	48906.0	200	-6150	?
Atlas SLV-3	-	1	Atlas SLV-3	-	-	1	48906.0	200	200	?
Atlas SLV-3	-	F	Fairing	-	-	2	48906.0	200	-200	?
Atlas G Centaur	-	0	Atlas Booster	-	-	1	48906.0	120	-5940	?
Atlas G Centaur	-	1	Atlas G	-	-	1	48906.0	200	-5300	?
Atlas G Centaur	-	2	Centaur D-1A	-	-	1	48906.0	200	200	?
Atlas G Centaur	-	F	Fairing	-	-	2	48906.0	170	-5650	?
Atlas H	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas H	-	1	Atlas H	-	-	1	48906.0	1000	-800	?
Atlas H	-	F	Fairing	-	-	2	48906.0	120	-6100	?
Atlas Able	-	0	Atlas D Booster	-	-	1	48906.0	120	-6100	?
Atlas Able	-	1	Atlas D	-	-	1	48906.0	1290	-1000	?
Atlas Able	-	2	AJ10-101A	-	-	1	48906.0	1290	-1000	?
Atlas Able	-	3	Altair	-	-	1	48906.0	1000	200	?
Atlas Able	-	F	Fairing	-	-	2	48906.0	180	-6000	?
Atlas Agena A	-	0	Atlas D Booster	-	-	1	48906.0	120	-6000	?
Atlas Agena A	-	1	Atlas D	-	-	1	48906.0	173	-2226	?
Atlas Agena A	-	2	Agena A	-	-	1	48906.0	3360	140	?
Atlas Agena B	-	0	Atlas D Booster	-	-	1	48906.0	120	-6100	?
Atlas Agena B	-	1	Atlas D	-	-	1	48906.0	180	-5000	?
Atlas Agena B	-	2	Agena B	-	-	1	48906.0	500	200	?
Atlas Agena B	-	F	Fairing	-	-	2	48906.0	300	-4400	?
Atlas Agena D	-	0	Atlas D Booster	-	-	1	48906.0	130	-5950	?
Atlas Agena D	-	1	Atlas D	-	-	1	48906.0	300	-4400	?
Atlas Agena D	-	2	Agena D	-	-	1	48906.0	300	300	?
Atlas Agena D	-	F	Fairing	-	-	2	48906.0	300	-4400	?
Atlas SLV-3 Agena B	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas SLV-3 Agena B	-	1	Atlas SLV-3	-	-	1	48906.0	180	-5000	?
Atlas SLV-3 Agena B	-	2	Agena B	-	-	1	48906.0	500	200	?
Atlas SLV-3 Agena B	-	F	Fairing	-	-	2	48906.0	180	-5000	?
Atlas SLV-3 Agena D	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas SLV-3 Agena D	-	1	Atlas SLV-3	-	-	1	48906.0	180	-5000	?
Atlas SLV-3 Agena D	-	2	Agena D	-	-	1	48906.0	500	200	?
Atlas SLV-3 Agena D	-	F	Fairing	-	-	2	48906.0	180	-5000	?
Atlas SLV-3A Agena D	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas SLV-3A Agena D	-	1	Atlas SLV-3A	-	-	1	48906.0	180	-5000	?
Atlas SLV-3A Agena D	-	2	Agena D	-	-	1	48906.0	500	200	?
Atlas SLV-3A Agena D	-	F	Fairing	-	-	2	48906.0	180	-5000	?
Atlas Burner 2	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas Burner 2	-	1	Atlas SLV-3	-	-	1	48906.0	600	-4000	?
Atlas Burner 2	-	2	Star 37B	-	-	1	48906.0	600	-2000	?
Atlas Burner 2	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas Burner 2A	-	0	Atlas Booster	-	-	1	48906.0	120	-6100	?
Atlas Burner 2A	-	1	Atlas F	-	-	1	48906.0	300	-3300	?
Atlas Burner 2A	-	2	Star 37B	-	-	1	48906.0	740	-1240	?
Atlas Burner 2A	-	3	Star 26B	-	-	1	48906.0	740	740	?
Atlas Burner 2A	-	F	Fairing	-	-	2	48906.0	200	-6000	?
Atlas Centaur	-	0	Atlas D Booster	-	-	1	48906.0	100	-6000	?
Atlas Centaur	-	1	Atlas D	-	-	1	48906.0	250	-5800	?
Atlas Centaur	-	2	Centaur	-	-	1	48906.0	250	250	?
Atlas Centaur	-	F	Fairing	-	-	2	48906.0	210	-5800	?
Atlas Centaur D	-	0	Atlas D Booster	-	-	1	48906.0	100	-6000	?
Atlas Centaur D	-	1	Atlas D	-	-	1	48906.0	250	-5800	?
Atlas Centaur D	-	2	Centaur D	-	-	1	48906.0	250	250	?
Atlas Centaur D	-	F	Fairing	-	-	2	48906.0	210	-5800	?
Atlas SLV-3C Centaur	-	0	Atlas Booster	-	-	1	48906.0	100	-6000	?
Atlas SLV-3C Centaur	-	1	Atlas SLV-3C	-	-	1	48906.0	250	-5800	?
Atlas SLV-3C Centaur	-	2	Centaur D	-	-	1	48906.0	200	200	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Atlas SLV-3C Centaur	-	F	Fairing	-	-	2	48906.0	200	-5800	?
Atlas SLV-3D Centaur	-	0	Atlas Booster	-	-	1	48906.0	100	-6000	?
Atlas SLV-3D Centaur	-	1	Atlas SLV-3D	-	-	1	48906.0	250	-5800	?
Atlas SLV-3D Centaur	-	2	Centaur D-1A	-	-	1	48906.0	200	200	?
Atlas SLV-3D Centaur	-	F	Fairing	-	-	2	48906.0	200	-5800	?
Atlas I	-	0	Atlas Booster	-	-	1	48906.0	100	-6000	?
Atlas I	-	1	Atlas I	-	-	1	48906.0	150	-5900	?
Atlas I	-	2	Centaur I	-	-	1	48906.0	200	200	?
Atlas I	-	F	Fairing	-	-	2	48906.0	150	-5900	?
Atlas II	-	0	Atlas Booster	-	-	1	340725.0	100	-6000	?
Atlas II	-	1	Atlas II	-	-	1	104284.0	150	-5900	?
Atlas II	-	2	Centaur II	-	-	1	104284.0	200	200	?
Atlas II	-	F	Fairing	-	-	2	104284.0	150	-5900	?
Atlas IIA	-	0	Atlas Booster	-	-	1	340725.0	100	-6000	?
Atlas IIA	-	1	Atlas II	-	-	1	104284.0	150	-5900	?
Atlas IIA	-	2	Centaur IIA	-	-	1	73408.0	200	200	?
Atlas IIA	-	F	Fairing	-	-	2	73408.0	150	-5900	?
Atlas IIAS	-	-1	Atlas Booster	-	-	1	340725.0	90	-5900	?
Atlas IIAS	-	0	Castor 4A	-	-	4	97495.0	50	-6000	?
Atlas IIAS	-	1	Atlas II	-	-	1	104284.0	200	-5550	?
Atlas IIAS	-	2	Centaur IIA	-	-	1	73408.0	200	200	?
Atlas IIAS	-	F	Fairing	-	-	2	73408.0	100	-5900	?
Atlas 3A	-	1	Atlas III	-	-	1	788880.0	200	-5800	?
Atlas 3A	-	2	Centaur IIIA	-	-	1	73408.0	2000	200	?
Atlas 3B	SEC	1	Atlas III	-	-	1	73408.0	200	-5800	?
Atlas 3B	SEC	2	Centaur IIIB/SEC	-	-	1	73408.0	2000	200	?
Atlas 3B	SEC	F	Fairing	-	-	2	73408.0	200	-5500	?
Atlas 3B	DEC	1	Atlas III	-	-	1	73408.0	200	-5800	?
Atlas 3B	DEC	2	Centaur IIIB/DEC	-	-	1	73408.0	2000	200	?
New Shepard	-	1	New Shepard PM	-	-	1	73408.0	100	-6300	?
Vega	-	1	Vega P80FW	-	-	1	73408.0	50	-6000	?
Vega	-	2	Zefiro 23	-	-	1	73408.0	150	-5000	?
Vega	-	3	Zefiro 9A	-	-	1	73408.0	160	160	?
Vega	-	4	AVUM	-	-	1	73408.0	700	700	?
Vega	-	F	Fairing	-	-	2	73408.0	150	-6000	?
Vega	1	1	Vega P80FW	-	-	1	73408.0	50	-6000	?
Vega	1	2	Zefiro 23	-	-	1	73408.0	150	-5000	?
Vega	1	3	Zefiro 9A	-	-	1	73408.0	160	160	?
Vega	1	4	AVUM-RD868P	-	-	1	73408.0	700	700	?
Vega	1	F	Fairing	-	-	2	73408.0	150	-6000	?
YGCS	-	1	YGCS	-	-	1	73408.0	200	-6300	?
Sarmat	-	1	Sarmat St1	-	-	1	73408.0	100	-6100	?
Sarmat	-	2	Sarmat St2	-	-	1	73408.0	1000	-4000	?
R-36	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36 8K67	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36 8K67	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36 8K67P	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36 8K67P	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36 8K67PM	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36 8K67PM	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36 8K67M	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36 8K67M	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36 8K67MA	-	1	8S671	-	-	1	73408.0	100	-6100	?
R-36 8K67MA	-	2	8S672	-	-	1	73408.0	1000	-4000	?
R-36O 8K69	-	1	8S691	-	-	1	73408.0	100	-6100	?
R-36O 8K69	-	2	8S692	-	-	1	73408.0	200	200	?
R-36O 8K69M	-	1	8S691	-	-	1	73408.0	100	-6100	?
R-36O 8K69M	-	2	8S692	-	-	1	73408.0	200	200	?
Tsiklon-2A	-	1	8S671	-	-	1	73408.0	70	-6000	?
Tsiklon-2A	-	2	8S672	-	-	1	73408.0	400	100	?
Tsiklon-2A	-	F	Fairing	-	-	2	73408.0	70	-6000	?
Tsiklon-2	-	1	11S691	-	-	1	73408.0	70	-6000	?
Tsiklon-2	-	2	11S692	-	-	1	73408.0	400	100	?
Tsiklon-2	-	F	Fairing	-	-	2	73408.0	70	-6000	?
Tsiklon-3	-	1	11S691	-	-	1	73408.0	70	-6100	?
Tsiklon-3	-	2	11S692	-	-	1	73408.0	200	-2700	?
Tsiklon-3	-	3	S5M	-	-	1	73408.0	400	400	?
Tsiklon-3	-	F	Fairing	-	-	2	73408.0	70	-6100	?
R-36M 15A14	-	1	15A14A	-	-	1	73408.0	100	-6100	?
R-36M 15A14	-	2	15A14B	-	-	1	73408.0	1000	-4000	?
R-36MU 15A18	-	1	15A18A	-	-	1	73408.0	100	-6100	?
R-36MU 15A18	-	2	15A18B	-	-	1	73408.0	1000	-4000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
R-36MU 15A18	-	3	15A18-BR	-	-	1	73408.0	1000	-4000	?
R-36M2 15A18M	-	1	15A18A	-	-	1	73408.0	100	-6100	?
R-36M2 15A18M	-	2	15A18B	-	-	1	73408.0	1000	-4000	?
R-36M2 15A18M	-	3	15A18-BR	-	-	1	73408.0	1000	-4000	?
Dnepr	-	1	15A18A	-	-	1	443450.0	100	-6300	?
Dnepr	-	2	15A18B	-	-	1	116280.0	350	-1000	?
Dnepr	-	3	15A18-BR	-	-	1	11160.0	600	600	?
R-16	-	1	8S641	-	-	1	11160.0	100	-6200	?
R-16	-	2	8S642	-	-	1	11160.0	1000	-6000	?
R-16U	-	1	8S641	-	-	1	11160.0	100	-6200	?
R-16U	-	2	8S642	-	-	1	11160.0	1000	-5000	?
UR-200	-	1	8S811	-	-	1	11160.0	500	-6100	?
UR-200	-	2	8S812	-	d	1	11160.0	500	-6100	?
R-7	-	1	8K71	-	-	4	11160.0	75	-5900	?
R-7	-	2	8K71A	-	-	1	11160.0	1350	-4000	?
R-7	71/III	1	8K71	-	-	4	11160.0	75	-5900	?
R-7	71/III	2	8K71A	-	-	1	11160.0	1350	-4000	?
R-7A	-	1	8K74	-	-	4	11160.0	75	-5900	?
R-7A	-	2	8K74A	-	-	1	11160.0	1350	-4000	?
Sputnik 8K71PS	-	1	8K71	-	-	4	11160.0	75	-5900	?
Sputnik 8K71PS	-	2	8K71A	-	-	1	11160.0	1000	300	?
Sputnik 8A91	-	1	8K74	-	-	4	11160.0	75	-5900	?
Sputnik 8A91	-	2	8K74A	-	-	1	11160.0	1000	300	?
Voskhod 11A57	-	1	8K74	-	-	4	11160.0	60	-5900	?
Voskhod 11A57	-	2	8K74A	-	-	1	11160.0	120	-5000	?
Voskhod 11A57	-	3	11A57I	-	-	1	11160.0	200	200	?
Voskhod 11A57	-	F	GO	-	-	2	11160.0	120	-5000	?
Vostok-L 8K72	-	1	8K71	-	-	4	11160.0	60	-5900	?
Vostok-L 8K72	-	2	8K71A	-	-	1	11160.0	120	-5000	?
Vostok-L 8K72	-	3	8K72E	-	-	1	11160.0	200	200	?
Vostok-L 8K72	-	F	GO	-	-	2	11160.0	120	-5000	?
Vostok 8K72	-	1	8K71	-	-	4	11160.0	60	-5900	?
Vostok 8K72	-	2	8K71A	-	-	1	11160.0	120	-5000	?
Vostok 8K72	-	3	8K72E	-	-	1	11160.0	200	200	?
Vostok 8K72	-	F	GO	-	-	2	11160.0	120	-5000	?
Vostok 8K72	K	1	8K71	-	-	4	11160.0	60	-5900	?
Vostok 8K72	K	2	8K71A	-	-	1	11160.0	120	-5000	?
Vostok 8K72	K	3	8K72KE	-	-	1	11160.0	200	200	?
Vostok 8K72	K	F	GO	-	-	2	11160.0	120	-5000	?
Vostok 8A92	-	1	8K74	-	-	4	11160.0	60	-5900	?
Vostok 8A92	-	2	8K74A	-	-	1	11160.0	120	-5000	?
Vostok 8A92	-	3	8A92E	-	-	1	11160.0	200	200	?
Vostok 8A92	-	F	GO	-	-	2	11160.0	120	-5000	?
Vostok 8A92M	-	1	8K74	-	-	4	11160.0	60	-5900	?
Vostok 8A92M	-	2	8K74A	-	-	1	11160.0	120	-5000	?
Vostok 8A92M	-	3	8A92ME	-	-	1	11160.0	200	200	?
Vostok 8A92M	-	F	GO	-	-	2	11160.0	120	-5000	?
Polyot 11A59	-	1	8K74	-	-	4	11160.0	75	-5900	?
Polyot 11A59	-	2	8K74A	-	-	1	11160.0	300	-500	?
Polyot 11A59	-	F	GO	-	-	1	11160.0	80	-5900	?
Vostok-2A 11A510	-	1	11S59	-	-	4	11160.0	75	-5900	?
Vostok-2A 11A510	-	2	11S59A	-	-	1	11160.0	200	-1000	?
Vostok-2A 11A510	-	F	GO	-	-	2	11160.0	75	-5900	?
Soyuz 11A511	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz 11A511	-	2	11S59A	-	-	1	11160.0	170	-4400	?
Soyuz 11A511	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz 11A511	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz 11A511L	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz 11A511L	-	2	11S59A	-	-	1	11160.0	175	-4400	?
Soyuz 11A511L	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz 11A511L	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz 11A511M	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz 11A511M	-	2	11S59A	-	-	1	11160.0	175	-4400	?
Soyuz 11A511M	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz 11A511M	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz-U	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-U	-	2	11S59A	-	-	1	11160.0	175	-4400	?
Soyuz-U	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz-U	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz-U-PVB	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-U-PVB	-	2	11S59A	-	-	1	11160.0	175	-4400	?
Soyuz-U-PVB	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz-U-PVB	-	F	GO	-	-	2	11160.0	150	-5000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Soyuz-U2	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-U2	-	2	11S59A-S	-	-	1	11160.0	175	-4400	?
Soyuz-U2	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz-U2	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz-U-PVB	Ikar	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-U-PVB	Ikar	2	11S59A	-	-	1	11160.0	230	-5500	?
Soyuz-U-PVB	Ikar	3	11S510	-	-	1	11160.0	200	900	?
Soyuz-U-PVB	Ikar	4	Ikar	-	-	1	11160.0	900	900	?
Soyuz-U-PVB	Fregat	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-U-PVB	Fregat	2	11S59A	-	-	1	11160.0	100	-5700	?
Soyuz-U-PVB	Fregat	3	11S510 (F)	-	-	1	11160.0	180	-1200	?
Soyuz-U-PVB	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-2-1A	-	1	14S53	-	-	4	11160.0	75	-5900	?
Soyuz-2-1A	-	2	14S53A	-	-	1	11160.0	120	-5700	?
Soyuz-2-1A	-	3	14S54/RD-0110	-	-	1	11160.0	200	200	?
Soyuz-2-1A	-	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1B	-	1	14S53	-	-	4	11160.0	75	-5900	?
Soyuz-2-1B	-	2	14S53A	-	-	1	11160.0	120	-5700	?
Soyuz-2-1B	-	3	14S54	-	-	1	11160.0	200	200	?
Soyuz-2-1B	-	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1A	Fregat	1	14S53	-	-	4	11160.0	75	-5900	?
Soyuz-2-1A	Fregat	2	14S53A	-	-	1	11160.0	120	-5700	?
Soyuz-2-1A	Fregat	3	14S54/RD-0110	-	-	1	11160.0	200	200	?
Soyuz-2-1A	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-2-1A	Fregat	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1A	Volga	1	14S53	-	-	4	11160.0	75	-5900	?
Soyuz-2-1A	Volga	2	14S53A	-	-	1	11160.0	120	-5700	?
Soyuz-2-1A	Volga	3	14S54/RD-0110	-	-	1	11160.0	200	200	?
Soyuz-2-1A	Volga	4	Volga	-	-	1	11160.0	200	200	?
Soyuz-2-1A	Volga	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1B	Fregat	1	14S53	-	-	4	11160.0	75	-5900	?
Soyuz-2-1B	Fregat	2	14S53A	-	-	1	11160.0	120	-5700	?
Soyuz-2-1B	Fregat	3	14S54	-	-	1	11160.0	200	200	?
Soyuz-2-1B	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-2-1B	Fregat	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1V	-	1	Soyuz-2-1V 132KS	-	-	1	11160.0	300	-5500	?
Soyuz-2-1V	-	2	14S54	-	-	1	11160.0	300	300	?
Soyuz-2-1V	-	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-2-1V	Volga	1	Soyuz-2-1V 132KS	-	-	1	11160.0	300	-5500	?
Soyuz-2-1V	Volga	2	14S54	-	-	1	11160.0	300	300	?
Soyuz-2-1V	Volga	3	Volga	-	-	1	11160.0	300	300	?
Soyuz-2-1V	Volga	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-ST-A	-	1	374BL01A	-	-	4	11160.0	75	-5900	?
Soyuz-ST-A	-	2	374BL01A-A	-	-	1	11160.0	120	-5700	?
Soyuz-ST-A	-	3	374BL02A	-	-	1	11160.0	200	200	?
Soyuz-ST-A	-	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-ST-A	Fregat	1	374BL01A	-	-	4	11160.0	75	-5900	?
Soyuz-ST-A	Fregat	2	374BL01A-A	-	-	1	11160.0	120	-5700	?
Soyuz-ST-A	Fregat	3	374BL02A	-	-	1	11160.0	200	200	?
Soyuz-ST-A	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-ST-A	Fregat	F	GO	-	-	2	11160.0	120	-5700	?
Soyuz-ST-B	-	1	374BL01B	-	-	4	11160.0	75	-5900	?
Soyuz-ST-B	-	2	374BL01B-A	-	-	1	11160.0	120	-5700	?
Soyuz-ST-B	-	3	374BL02B	-	-	1	11160.0	200	200	?
Soyuz-ST-B	-	F	GO 81KS	-	-	2	11160.0	120	-5700	?
Soyuz-ST-B	Fregat	1	374BL01B	-	-	4	11160.0	75	-5900	?
Soyuz-ST-B	Fregat	2	374BL01B-A	-	-	1	11160.0	120	-5700	?
Soyuz-ST-B	Fregat	3	374BL02B	-	-	1	11160.0	200	200	?
Soyuz-ST-B	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-ST-B	Fregat	F	GO 81KS	-	-	2	11160.0	120	-5700	?
Soyuz-FG	-	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-FG	-	2	11S59A	-	-	1	11160.0	100	-5700	?
Soyuz-FG	-	3	11S510	-	-	1	11160.0	200	200	?
Soyuz-FG	-	F	GO	-	-	2	11160.0	150	-5000	?
Soyuz-FG	Fregat	1	11S59	-	-	4	11160.0	75	-5900	?
Soyuz-FG	Fregat	2	11S59A	-	-	1	11160.0	100	-5700	?
Soyuz-FG	Fregat	3	11S510	-	-	1	11160.0	100	100	?
Soyuz-FG	Fregat	4	Fregat	-	-	1	11160.0	200	200	?
Soyuz-FG	Fregat	F	GO	-	-	2	11160.0	150	-5000	?
Molniya 8K78	-	1	8K74	-	-	4	11160.0	75	-5900	?
Molniya 8K78	-	2	8K74A	-	-	1	11160.0	200	-4500	?
Molniya 8K78	-	3	8K78I	-	-	1	11160.0	200	200	?
Molniya 8K78	-	4	BOZ	-	-	1	11160.0	200	200	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Molniya 8K78	-	5	Blok-L	-	-	1	11160.0	200	200	?
Molniya 8K78	-	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78	E6	1	8K74	-	-	4	11160.0	75	-5900	?
Molniya 8K78	E6	2	8K74A	-	-	1	11160.0	200	-4500	?
Molniya 8K78	E6	3	8K78I	-	-	1	11160.0	200	200	?
Molniya 8K78	E6	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78	E6	5	Blok-L	-	-	1	11160.0	200	200	?
Molniya 8K78	E6	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78	M	1	8K74	-	-	4	11160.0	75	-5900	?
Molniya 8K78	M	2	8K74A	-	-	1	11160.0	200	-4500	?
Molniya 8K78	M	3	8K78I	-	-	1	11160.0	200	200	?
Molniya 8K78	M	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78	M	5	Blok-L	-	-	1	11160.0	200	200	?
Molniya 8K78	M	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	-	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	-	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	-	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	-	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	-	5	Blok-L	-	-	1	11160.0	200	200	?
Molniya 8K78M	-	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	M1M	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	M1M	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	M1M	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	M1M	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	M1M	5	Blok-L	-	-	1	11160.0	200	200	?
Molniya 8K78M	M1M	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	ML	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	ML	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	ML	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	ML	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	ML	5	Blok-ML	-	-	1	11160.0	200	200	?
Molniya 8K78M	ML	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M-PVB	ML	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M-PVB	ML	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M-PVB	ML	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	ML	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	ML	5	Blok-ML	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	ML	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	SOL	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	SOL	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	SOL	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	SOL	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	SOL	5	Blok SO-L	-	-	1	11160.0	200	200	?
Molniya 8K78M	SOL	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	VL	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	VL	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	VL	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	VL	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	VL	5	Blok-VL	-	-	1	11160.0	200	200	?
Molniya 8K78M	VL	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	MVL	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	MVL	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	MVL	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	MVL	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	MVL	5	Blok-MVL	-	-	1	11160.0	200	200	?
Molniya 8K78M	MVL	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M	2BL	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M	2BL	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M	2BL	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M	2BL	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M	2BL	5	Blok-2BL	-	-	1	11160.0	200	200	?
Molniya 8K78M	2BL	F	GO	-	-	2	11160.0	250	-5000	?
Molniya 8K78M-PVB	2BL	1	11S59	-	-	4	11160.0	75	-5900	?
Molniya 8K78M-PVB	2BL	2	11S59A	-	-	1	11160.0	200	-4500	?
Molniya 8K78M-PVB	2BL	3	11S510	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	2BL	4	BOZ	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	2BL	5	Blok-2BL	-	-	1	11160.0	200	200	?
Molniya 8K78M-PVB	2BL	F	GO	-	-	2	11160.0	250	-5000	?
Angara A5	-	0	Angara URM-1	-	-	4	11160.0	200	-6000	?
Angara A5	-	1	Angara URM-1	-	-	1	11160.0	200	-6000	?
Angara A5	-	2	Angara URM-2	-	-	1	11160.0	200	200	?
Angara A5	-	3	Briz-M	-	-	1	11160.0	200	35780	?
Angara A5/Persei	-	0	Angara URM-1	-	-	4	11160.0	200	-6000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Angara A5/Persei	-	1	Angara URM-1	-	-	1	11160.0	200	-6000	?
Angara A5/Persei	-	2	Angara URM-2	-	-	1	11160.0	200	200	?
Angara A5/Persei	-	3	14S48	-	-	1	11160.0	200	35780	?
Angara A5/Orion	-	0	Angara URM-1	-	-	4	11160.0	200	-6000	?
Angara A5/Orion	-	1	Angara URM-1	-	-	1	11160.0	200	-6000	?
Angara A5/Orion	-	2	Angara URM-2	-	-	1	11160.0	200	200	?
Angara A5/Orion	-	3	14S48 Orion	-	-	1	11160.0	200	35780	?
Angara-1.2PP	-	1	Angara URM-1	-	-	1	11160.0	200	-6000	?
Angara-1.2PP	-	2	Angara URM-2	-	-	1	11160.0	200	-100	?
Angara-1.2PP	-	F	Fairing	-	-	1	11160.0	200	-100	?
Angara-1.2	-	1	Angara URM-1	-	-	1	11160.0	200	-6000	?
Angara-1.2	-	2	Angara-1.2 Stage 2	-	-	1	11160.0	200	-100	?
Angara-1.2	-	3	Angara AM	-	-	1	11160.0	200	200	?
Angara-1.2	-	F	Fairing	-	-	1	11160.0	200	-100	?
Naro-1	-	1	Naro Stage 1	-	-	1	11160.0	200	-6000	?
Naro-1	-	2	KSLV-1 Stage 2	-	-	1	11160.0	200	200	?
PSLV	-	0	PSOM	-	-	6	11160.0	50	-6300	?
PSLV	-	1	S125	-	-	1	11160.0	90	-6100	?
PSLV	-	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV	-	3	PS3	-	-	1	11160.0	800	-4000	?
PSLV	-	4	PS4	-	-	1	11160.0	800	800	?
PSLV	-	F	Fairing	-	-	2	11160.0	140	-5500	?
PSLV	C	0	PSOM	-	-	6	11160.0	50	-6300	?
PSLV	C	1	S139	-	-	1	11160.0	90	-6100	?
PSLV	C	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV	C	3	HPS3	-	-	1	11160.0	800	-4000	?
PSLV	C	4	PS4	-	-	1	11160.0	800	800	?
PSLV	C	F	Fairing	-	-	2	11160.0	140	-5500	?
PSLV	CA	1	S139	-	-	1	11160.0	90	-6100	?
PSLV	CA	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV	CA	3	HPS3	-	-	1	11160.0	800	-4000	?
PSLV	CA	4	PS4	-	-	1	11160.0	800	800	?
PSLV	CA	F	Fairing	-	-	2	11160.0	140	-5500	?
PSLV-DL	-	0	PSOM-XL	-	-	2	11160.0	50	-6300	?
PSLV-DL	-	1	S139	-	-	1	11160.0	90	-6100	?
PSLV-DL	-	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV-DL	-	3	HPS3	-	-	1	11160.0	800	-4000	?
PSLV-DL	-	4	PS4	-	-	1	11160.0	800	800	?
PSLV-DL	-	F	Fairing	-	-	2	11160.0	140	-5500	?
PSLV-QL	-	0	PSOM-XL	-	-	4	11160.0	50	-6300	?
PSLV-QL	-	1	S139	-	-	1	11160.0	90	-6100	?
PSLV-QL	-	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV-QL	-	3	HPS3	-	-	1	11160.0	800	-4000	?
PSLV-QL	-	4	PS4	-	-	1	11160.0	800	800	?
PSLV-QL	-	F	Fairing	-	-	2	11160.0	140	-5500	?
PSLV-XL	-	0	PSOM-XL	-	-	6	11160.0	50	-6300	?
PSLV-XL	-	1	S139	-	-	1	11160.0	90	-6100	?
PSLV-XL	-	2	PS2	-	-	1	11160.0	350	-5500	?
PSLV-XL	-	3	PS3	-	-	1	11160.0	800	-4000	?
PSLV-XL	-	4	PS4	-	-	1	11160.0	800	800	?
PSLV-XL	-	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk I	a	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk I	a	1	GS1-S125	-	-	1	11160.0	85	-6200	?
GSLV Mk I	a	2	GS2	-	-	1	11160.0	150	-4500	?
GSLV Mk I	a	3	12KRB	-	-	1	11160.0	35000	200	?
GSLV Mk I	a	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk I	b	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk I	b	1	GS1-S139	-	-	1	11160.0	85	-6200	?
GSLV Mk I	b	2	GS2	-	-	1	11160.0	150	-4500	?
GSLV Mk I	b	3	12KRB	-	-	1	11160.0	35000	200	?
GSLV Mk I	b	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk I	c	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk I	c	1	GS1-S139	-	-	1	11160.0	85	-6200	?
GSLV Mk I	c	2	GS2	-	-	1	11160.0	150	-4500	?
GSLV Mk I	c	3	15KRB	-	-	1	11160.0	35000	200	?
GSLV Mk I	c	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk II	-	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk II	-	1	GS1-S139	-	-	1	11160.0	85	-6200	?
GSLV Mk II	-	2	GS2	-	-	1	11160.0	150	-4500	?
GSLV Mk II	-	3	CUS12	-	-	1	11160.0	35000	200	?
GSLV Mk II	-	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk II	b	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk II	b	1	GS1-S139	-	-	1	11160.0	85	-6200	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
GSLV Mk II	b	2	GS2-HTVE	-	-	1	11160.0	150	-4500	?
GSLV Mk II	b	3	CUS12	-	-	1	11160.0	35000	200	?
GSLV Mk II	b	F	Fairing	-	-	2	11160.0	140	-5500	?
GSLV Mk II	c	0	GSOM	-	-	4	11160.0	85	-6200	?
GSLV Mk II	c	1	GS1-S139	-	-	1	11160.0	85	-6200	?
GSLV Mk II	c	2	GS2-HTVE	-	-	1	11160.0	150	-4500	?
GSLV Mk II	c	3	CUS15	-	-	1	11160.0	35000	200	?
GSLV Mk II	c	F	Fairing	-	-	2	11160.0	140	-5500	?
R-9A	-	1	8K75A	-	-	1	11160.0	100	-6100	?
R-9A	-	2	8K75B	-	-	1	11160.0	1000	-4000	?
Jupiter IRBM	-	1	Jupiter	-	-	1	11160.0	500	-5700	?
Juno II	-	1	Jupiter	-	-	1	11160.0	442	-5179	?
Juno II	-	2	Cluster Stage 2	-	-	1	11160.0	442	-3868	?
Juno II	-	3	Cluster Stage 3	-	-	1	11160.0	442	-1883	?
Juno II	-	4	RTV Motor	-	-	1	11160.0	872	440	?
Juno II	-	F	Fairing	-	-	1	11160.0	442	-5179	?
Juno II	(3)	1	Jupiter	-	-	1	11160.0	442	-5179	?
Juno II	(3)	2	Cluster Stage 2	-	-	1	11160.0	830	-4000	?
Juno II	(3)	3	Cluster Stage 3	-	-	1	11160.0	830	-4000	?
Juno II	(3)	F	Fairing	-	-	1	11160.0	442	-5179	?
Lijian-1	-	1	ZK-1A Stage 1	-	-	1	11160.0	50	-6300	?
Lijian-1	-	2	ZK-1A Stage 2	-	-	1	11160.0	150	-6300	?
Lijian-1	-	3	ZK-1A Stage 3	-	-	1	11160.0	150	-5000	?
Lijian-1	-	4	ZK-1A Stage 4	-	-	1	11160.0	500	500	?
Lijian-1	-	F	Fairing	-	-	1	11160.0	150	-5000	?
Jielong-3	-	1	ZK-1A Stage 1	-	-	1	11160.0	50	-6300	?
Jielong-3	-	2	ZK-1A Stage 2	-	-	1	11160.0	150	-6300	?
Jielong-3	-	3	ZK-1A Stage 3	-	-	1	11160.0	150	-5000	?
Jielong-3	-	4	JL-3 Stage 4	-	-	1	11160.0	150	-5000	?
Jielong-3	-	F	Fairing	-	-	1	11160.0	150	-5000	?
Yinli-1	-	0	YL-1 Stage 0	-	-	4	11160.0	30	-6300	?
Yinli-1	-	1	YL-1 Stage 1	-	-	1	11160.0	50	-6300	?
Yinli-1	-	2	YL-1 Stage 2	-	-	1	11160.0	50	-2000	?
Yinli-1	-	3	YL-1 Stage 3	-	-	1	11160.0	200	200	?
Al Abid	-	1	Abid St1	-	-	1	11160.0	30	-6300	?
Al Abid	-	2	Abid St2	-	d	1	11160.0	50	-6000	?
Al Abid	-	3	Abid St3	-	d	1	11160.0	50	-6000	?
KSLV-II TLV	-	1	KSLV-II Stage 2	-	-	1	11160.0	200	-6000	?
KSLV-II TLV	-	2	KSLV-II Stage 3	-	d	1	11160.0	200	-6000	?
A-350	-	1	A-350 Booster	-	-	1	11160.0	10	-6370	?
A-350	-	2	A-350	-	-	1	11160.0	300	-6300	?
A-350Zh	-	1	A-350Zh Booster	-	-	1	11160.0	10	-6370	?
A-350Zh	-	2	A-350Zh	-	-	1	11160.0	100	-6300	?
A-925	-	1	A-925 Booster	-	-	1	11160.0	10	-6370	?
A-925	-	2	A-925	-	-	1	11160.0	100	-6300	?
Nudol'	-	1	Nudol' Booster	-	-	1	11160.0	10	-6370	?
Nudol'	-	2	Nudol'	-	-	1	11160.0	100	-6300	?
Hwasong-17	-	1	Hwasong-17 Stage 1	-	-	1	11160.0	100	-6100	?
Hwasong-17	-	2	Hwasong-17 Stage 2	-	-	1	11160.0	200	200	?
Epsilon	-	1	ASR SRB-A	-	-	1	11160.0	100	-6000	?
Epsilon	-	2	M-34c	-	-	1	11160.0	200	-5000	?
Epsilon	-	3	KM-V2b	-	-	1	11160.0	200	200	?
Epsilon	-	4	Epsilon PBS	-	-	1	11160.0	200	200	?
Epsilon	2	1	ASR SRB-A	-	-	1	11160.0	100	-6000	?
Epsilon	2	2	M-35	-	-	1	11160.0	200	-5000	?
Epsilon	2	3	KM-V2c	-	-	1	11160.0	200	200	?
Epsilon	2PBS	1	ASR SRB-A	-	-	1	11160.0	100	-6000	?
Epsilon	2PBS	2	M-35	-	-	1	11160.0	200	-5000	?
Epsilon	2PBS	3	KM-V2c	-	-	1	11160.0	200	200	?
Epsilon	2PBS	4	Epsilon PBS	-	-	1	11160.0	200	200	?
UR-100N	-	1	UR-100NA	-	-	1	11160.0	100	-6100	?
UR-100N	-	2	UR-100NB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35	-	1	UR-100NA	-	-	1	11160.0	100	-6100	?
UR-100NU 15A35	-	2	UR-100NB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35	-	3	UR-100NU APB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35P	-	1	UR-100NA	-	-	1	11160.0	100	-6100	?
UR-100NU 15A35P	-	2	UR-100NB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35P	-	3	UR-100NU APB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35S	-	1	UR-100NA	-	-	1	11160.0	100	-6100	?
UR-100NU 15A35S	-	2	UR-100NB	-	-	1	11160.0	1000	-4500	?
UR-100NU 15A35S	-	3	UR-100NU APB	-	-	1	11160.0	1000	-4500	?
Strela	-	1	UR-100NA	-	-	1	11160.0	130	-5800	?
Strela	-	2	UR-100NB	-	-	1	11160.0	450	-800	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Strela	-	3	Strela APB	-	-	1	11160.0	450	400	?
Rokot	K	1	UR-100NA	-	-	1	11160.0	130	-5900	?
Rokot	K	2	UR-100NB	-	-	1	11160.0	240	-4020	?
Rokot	K	3	Briz-K	-	-	1	11160.0	700	200	?
Rokot	K	F	Fairing	-	-	2	11160.0	150	-5450	?
Rokot	-	1	UR-100NA	-	-	1	11160.0	130	-5900	?
Rokot	-	2	UR-100NB	-	-	1	11160.0	240	-4020	?
Rokot	-	3	Briz-KM	-	-	1	11160.0	700	200	?
Rokot	-	F	Fairing	-	-	2	11160.0	150	-5500	?
M-V	-	1	M-14	-	-	1	185220.0	70	-6200	?
M-V	-	2	M-24	-	-	1	88040.0	230	-5000	?
M-V	-	3	M-34	-	-	1	29580.0	200	200	?
M-V	-	F	Fairing	-	-	2	29580.0	220	-5200	?
M-V	1	1	M-14	-	-	1	185220.0	70	-6200	?
M-V	1	2	M-25	-	-	1	88040.0	230	-5000	?
M-V	1	3	M-34	-	-	1	29580.0	200	200	?
M-V	1	F	Fairing	-	-	2	29580.0	220	-5200	?
Thor DM-18	-	1	Thor DM-18	-	-	1	29580.0	500	-5700	?
Thor DM-18A	-	1	Thor DM-18A	-	-	1	29580.0	500	-5700	?
Thor DM-18C	-	1	Thor DM-18C	-	-	1	29580.0	500	-5300	?
Thor Able	-	1	Thor DM-18A	-	-	1	29580.0	500	-6000	?
Thor Able	-	2	AJ10-40	-	-	1	29580.0	1000	-5800	?
Thor Able I	-	1	Thor DM-18A	-	-	1	29580.0	1000	-5500	?
Thor Able I	-	2	AJ10-41	-	-	1	29580.0	2500	-3500	?
Thor Able I	-	3	Altair	-	-	1	29580.0	300000	-1300	?
Thor Able II	-	1	Thor DM-18A	-	-	1	29580.0	500	-6000	?
Thor Able II	-	2	AJ10-42	-	-	1	29580.0	500	-6000	?
Thor Able II	M1	1	Thor DM-18A	-	-	1	29580.0	200	-6100	?
Thor Able II	M1	2	AJ10-42	-	-	1	29580.0	700	-4300	?
Thor Able II	M1	3	Altair	-	-	1	29580.0	700	700	?
Thor Able II	M1	F	Fairing	-	-	2	29580.0	200	-6100	?
Thor Able III	-	1	Thor DM-18A	-	-	1	29580.0	500	-5500	?
Thor Able III	-	2	AJ10	-	-	1	29580.0	250	-1000	?
Thor Able III	-	3	Altair	-	-	1	29580.0	42000	250	?
Thor Able III	-	F	Fairing	-	-	2	29580.0	500	-5500	?
Thor Able IV	-	1	Thor DM-18A	-	-	1	29580.0	500	-5500	?
Thor Able IV	-	2	AJ10	-	-	1	29580.0	500	-1000	?
Thor Able IV	-	3	Altair	-	-	1	29580.0	200	200	?
Thor Able IV	-	F	Fairing	-	-	2	29580.0	500	-5500	?
Thor Ablestar	-	1	Thor DM-21	-	-	1	29580.0	200	-5500	?
Thor Ablestar	-	2	AJ10-104	-	-	1	29580.0	900	900	?
Thor Ablestar	-	F	Fairing	-	-	2	29580.0	200	-5500	?
Thor Ablestar	2	1	Thor DSV-2A	-	-	1	29580.0	200	-5500	?
Thor Ablestar	2	2	AJ10-104D	-	-	1	29580.0	900	900	?
Thor Ablestar	2	F	Fairing	-	-	2	29580.0	200	-5500	?
Thor Agena A	-	1	Thor DM-18A	-	-	1	29580.0	200	-5450	?
Thor Agena A	-	2	Agena A	-	-	1	29580.0	400	200	?
Thor Agena B	-	1	Thor DM-21	-	-	1	29580.0	150	-5500	?
Thor Agena B	-	2	Agena B	-	-	1	29580.0	200	200	?
Thor Agena B	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor Agena D	-	1	Thor DM-21	-	-	1	29580.0	150	-5500	?
Thor Agena D	-	2	Agena D	-	-	1	29580.0	200	200	?
Thor Agena D	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor SLV-2 Agena B	-	1	Thor DSV-2A	-	-	1	29580.0	150	-5800	?
Thor SLV-2 Agena B	-	2	Agena B	-	-	1	29580.0	200	200	?
Thor SLV-2 Agena B	-	F	Fairing	-	-	2	29580.0	150	-5800	?
Thor SLV-2 Agena D	-	1	Thor DSV-2A	-	-	1	29580.0	150	-5800	?
Thor SLV-2 Agena D	-	2	Agena D	-	-	1	29580.0	200	200	?
Thor SLV-2 Agena D	-	F	Fairing	-	-	2	29580.0	150	-5800	?
Thor SLV-2A Agena B	-	0	Castor 1	-	-	3	29580.0	45	-6000	?
Thor SLV-2A Agena B	-	1	Thor DSV-2C	-	-	1	29580.0	150	-5700	?
Thor SLV-2A Agena B	-	2	Agena B	-	-	1	29580.0	200	200	?
Thor SLV-2A Agena B	-	F	Fairing	-	-	2	29580.0	150	-5700	?
Thor SLV-2A Agena D	-	0	Castor 1	-	-	3	29580.0	45	-6000	?
Thor SLV-2A Agena D	-	1	Thor DSV-2C	-	-	1	29580.0	150	-5700	?
Thor SLV-2A Agena D	-	2	Agena D	-	-	1	29580.0	200	200	?
Thor SLV-2A Agena D	-	F	Fairing	-	-	2	29580.0	150	-5700	?
Thor SLV-2A Agena D	2	0	Castor 2	-	-	3	29580.0	45	-6000	?
Thor SLV-2A Agena D	2	1	Thor DSV-2C	-	-	1	29580.0	150	-5700	?
Thor SLV-2A Agena D	2	2	Agena D	-	-	1	29580.0	200	200	?
Thor SLV-2A Agena D	2	F	Fairing	-	-	2	29580.0	150	-5700	?
Thorad SLV-2G Agena D	-	0	Castor 2	-	-	3	29580.0	45	-6000	?
Thorad SLV-2G Agena D	-	1	LT Thor DSV-2L-1A	-	-	1	29580.0	150	-5520	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Thorad SLV-2G Agena D	-	2	Agena D	-	-	1	29580.0	200	200	?
Thorad SLV-2G Agena D	-	F	Fairing	-	-	2	29580.0	150	-5520	?
Thorad SLV-2H Agena D	-	0	Castor 2	-	-	3	29580.0	45	-6000	?
Thorad SLV-2H Agena D	-	1	LT Thor DSV-2L-1B	?	-	1	29580.0	150	-5520	?
Thorad SLV-2H Agena D	-	2	Agena D	-	-	1	29580.0	200	200	?
Thorad SLV-2H Agena D	-	F	Fairing	-	-	2	29580.0	150	-5520	?
Thor Delta	-	1	Thor DM-18A	-	-	1	29580.0	200	-5030	?
Thor Delta	-	2	AJ10-118	-	-	1	29580.0	300	-2000	?
Thor Delta	-	3	Altair	-	-	1	29580.0	10000	300	?
Thor Delta	-	F	Fairing	-	-	2	29580.0	200	-5000	?
Thor Delta A	-	1	Thor DM-21	-	-	1	29580.0	200	-5030	?
Thor Delta A	-	2	AJ10-118	-	-	1	29580.0	300	-2400	?
Thor Delta A	-	3	Altair	-	-	1	29580.0	300	300	?
Thor Delta A	-	F	Fairing	-	-	2	29580.0	200	-5000	?
Thor Delta B	-	1	Thor DM-21	-	-	1	29580.0	150	-5500	?
Thor Delta B	-	2	AJ10-118A	-	-	1	29580.0	1200	-5000	?
Thor Delta B	-	3	Altair	-	-	1	29580.0	1200	1200	?
Thor Delta B	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor Delta C	-	1	Thor DSV-2A	-	-	1	29580.0	150	-5500	?
Thor Delta C	-	2	AJ10-118D	-	-	1	29580.0	200	-1000	?
Thor Delta C	-	3	Altair 2	-	-	1	29580.0	200	200	?
Thor Delta C	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor Delta C1	-	1	Thor DSV-2A	-	-	1	29580.0	150	-5500	?
Thor Delta C1	-	2	AJ10-118D	-	-	1	29580.0	200	-1000	?
Thor Delta C1	-	3	FW4D	-	-	1	29580.0	200	200	?
Thor Delta C1	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor Delta D	-	0	Castor	-	-	3	29580.0	30	-6340	?
Thor Delta D	-	1	Thor DSV-2C	-	-	1	29580.0	150	-5500	?
Thor Delta D	-	2	AJ10-118D	-	-	1	29580.0	1400	-1000	?
Thor Delta D	-	3	Altair 2	-	-	1	29580.0	35780	200	?
Thor Delta D	-	F	Fairing	-	-	2	29580.0	150	-5500	?
Thor Delta E	-	0	Castor	-	-	3	29580.0	30	-6340	?
Thor Delta E	-	1	Thor DSV-2C	-	-	1	29580.0	200	-5350	?
Thor Delta E	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta E	-	3	Altair 2	-	-	1	29580.0	35780	200	?
Thor Delta E	-	F	Fairing	-	-	2	29580.0	220	-5200	?
Thor Delta E1	-	0	Castor	-	-	3	29580.0	30	-6340	?
Thor Delta E1	-	1	Thor DSV-2C	-	-	1	29580.0	200	-5350	?
Thor Delta E1	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta E1	-	3	FW4D	-	-	1	29580.0	35780	200	?
Thor Delta E1	-	F	Fairing	-	-	2	29580.0	200	-5350	?
Thor Delta G	-	0	Castor	-	-	3	29580.0	30	-6340	?
Thor Delta G	-	1	Thor DSV-2C	-	-	1	29580.0	200	-5350	?
Thor Delta G	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta G	-	F	Fairing	-	-	2	29580.0	200	-5350	?
Thor Delta J	-	0	Castor	-	-	3	29580.0	30	-6340	?
Thor Delta J	-	1	Thor DSV-2C	-	-	1	29580.0	200	-5350	?
Thor Delta J	-	2	DSV-3E-3	-	-	1	29580.0	640	-6300	?
Thor Delta J	-	3	Star 37D	-	-	1	29580.0	5000	640	?
Thor Delta J	-	F	Fairing	-	-	2	29580.0	200	-5350	?
Thor Delta L	-	0	Castor 2	-	-	3	29580.0	30	-6340	?
Thor Delta L	-	1	LT Thor DSV-2L-1B	-	-	1	29580.0	150	-4800	?
Thor Delta L	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta L	-	3	FW4D	-	-	1	29580.0	200	200	?
Thor Delta L	-	F	Fairing	-	-	2	29580.0	150	-4800	?
Thor Delta M	-	0	Castor 2	-	-	3	29580.0	30	-6340	?
Thor Delta M	-	1	LT Thor DSV-2L-1B	-	-	1	29580.0	150	-4800	?
Thor Delta M	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta M	-	3	Star 37D	-	-	1	29580.0	37800	200	?
Thor Delta M	-	F	Fairing	-	-	2	29580.0	150	-4800	?
Thor Delta M6	-	0	Castor 2	-	-	6	29580.0	30	-6340	?
Thor Delta M6	-	1	LT Thor DSV-2L-1C	-	-	1	29580.0	150	-4800	?
Thor Delta M6	-	2	DSV-3E-3	-	-	1	29580.0	200	-1000	?
Thor Delta M6	-	3	Star 37D	-	-	1	29580.0	37800	200	?
Thor Delta M6	-	F	Fairing	-	-	2	29580.0	150	-4800	?
Thor Delta N	-	0	Castor 2	-	-	3	29580.0	30	-6340	?
Thor Delta N	-	1	LT Thor DSV-2L-1B	-	-	1	29580.0	150	-4800	?
Thor Delta N	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta N	-	F	Fairing	-	-	2	29580.0	150	-4800	?
Thor Delta N6	-	0	Castor 2	-	-	6	29580.0	30	-6340	?
Thor Delta N6	-	1	LT Thor DSV-2L-1C	-	-	1	29580.0	150	-4800	?
Thor Delta N6	-	2	DSV-3E-3	-	-	1	29580.0	200	200	?
Thor Delta N6	-	F	Fairing	-	-	2	29580.0	150	-4800	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Thor DSV-2D	-	1	Thor DM-21	-	-	1	29580.0	1400	-6300	?
Thor DSV-2D	-	F	Fairing	-	-	2	29580.0	1400	-6300	?
Thor DSV-2E	-	1	Thor DM-18A	-	-	1	29580.0	500	-6200	?
Thor DSV-2F	-	1	Thor DM-18A	-	-	1	29580.0	50	-5200	?
Thor DSV-2G	-	1	Thor DM-18A	-	-	1	29580.0	50	-5200	?
Thor DSV-2G	-	2	AJ10-118	-	-	1	29580.0	60	-4000	?
Thor DSV-2J	-	1	Thor DM-18A	-	-	1	29580.0	500	-6200	?
Thor DSV-2U	-	1	Thor DM-18A	-	-	1	29580.0	760	-5480	?
Thor DSV-2U	-	2	Star 37XE	-	-	1	29580.0	820	-4130	?
Thor DSV-2U	-	F	Fairing	-	-	2	29580.0	760	-5480	?
Thor MG-18	-	1	Thor DM-18A	-	-	1	29580.0	700	-5200	?
Thor MG-18	-	2	MG-18	-	-	1	29580.0	700	700	?
Thor MG-18	-	F	Fairing	-	-	2	29580.0	700	-5200	?
Thor Burner 1	-	1	Thor DM-18A	-	-	1	29580.0	800	-5400	?
Thor Burner 1	-	2	FW4S	-	-	1	29580.0	800	800	?
Thor Burner 1	-	F	Fairing	-	-	2	29580.0	800	-5400	?
Thor Burner 2	-	1	Thor DM-18A	-	-	1	29580.0	850	-5650	?
Thor Burner 2	-	2	Star 37B	-	-	1	29580.0	850	850	?
Thor Burner 2	-	F	Fairing	-	-	2	29580.0	800	-5600	?
Thor Burner 2A	-	1	Thor DM-18A	-	-	1	29580.0	500	-5050	?
Thor Burner 2A	-	2	Star 37B	-	-	1	29580.0	800	-3000	?
Thor Burner 2A	-	3	Star 26B	-	-	1	29580.0	800	800	?
Thor Burner 2A	-	F	Fairing	-	-	2	29580.0	500	-5050	?
Delta 0300	-	0	Castor 2	-	-	3	29580.0	30	-6340	?
Delta 0300	-	1	LT Thor DSV-2L-1C	-	-	1	29580.0	150	-4800	?
Delta 0300	-	2	DSV-3N-4	-	-	1	29580.0	200	200	?
Delta 0300	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 0900	-	0	Castor 2	-	-	9	29580.0	30	-6340	?
Delta 0900	-	1	LT Thor DSV-2L-1C	-	-	1	29580.0	150	-4800	?
Delta 0900	-	2	DSV-3N-4	-	-	1	29580.0	200	200	?
Delta 0900	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1410	-	0	Castor 2	-	-	4	29580.0	30	-6340	?
Delta 1410	-	1	ELT Thor DSV-2L-1E	-	-	1	29580.0	150	-4800	?
Delta 1410	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 1410	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1604	-	0	Castor 2	-	-	6	29580.0	30	-6340	?
Delta 1604	-	1	ELT Thor DSV-2L-1D	-	-	1	29580.0	150	-4800	?
Delta 1604	-	2	DSV-3N-4	-	-	1	29580.0	150	150	?
Delta 1604	-	3	Star 37C	-	-	1	29580.0	37800	200	?
Delta 1604	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1900	-	0	Castor 2	-	-	9	29580.0	30	-6340	?
Delta 1900	-	1	ELT Thor DSV-2L-1D	-	-	1	29580.0	150	-4800	?
Delta 1900	-	2	DSV-3N-4	-	-	1	29580.0	200	200	?
Delta 1900	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1910	-	0	Castor 2	-	-	9	29580.0	30	-6340	?
Delta 1910	-	1	ELT Thor DSV-2L-1E	-	-	1	29580.0	150	-4800	?
Delta 1910	-	2	DSV-3P-4	-	-	1	29580.0	500	500	?
Delta 1910	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1913	-	0	Castor 2	-	-	9	29580.0	30	-6340	?
Delta 1913	-	1	ELT Thor DSV-2L-1E	-	-	1	29580.0	150	-4800	?
Delta 1913	-	2	DSV-3P-4	-	-	1	29580.0	200	-1000	?
Delta 1913	-	3	Star 37D	-	-	1	29580.0	37800	200	?
Delta 1913	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 1914	-	0	Castor 2	-	-	9	29580.0	30	-6340	?
Delta 1914	-	1	ELT Thor DSV-2L-1E	-	-	1	29580.0	150	-4800	?
Delta 1914	-	2	DSV-3P-4	-	-	1	29580.0	200	-1000	?
Delta 1914	-	3	Star 37C	-	-	1	29580.0	37800	200	?
Delta 1914	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2310	-	0	Castor 2	-	-	3	29580.0	30	-6340	?
Delta 2310	-	1	ELT Thor DSV-2W-1	-	-	1	29580.0	150	-4800	?
Delta 2310	-	2	DSV-3P-4B	-	-	1	29580.0	1000	1000	?
Delta 2310	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2910	-	0	Castor 2	-	-	9	29580.0	32	-6340	?
Delta 2910	-	1	ELT Thor DSV-2W-1	-	-	1	29580.0	150	-4800	?
Delta 2910	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 2910	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2313	-	0	Castor 2	-	-	3	29580.0	32	-6340	?
Delta 2313	-	1	ELT Thor DSV-2W-1	-	-	1	29580.0	150	-4800	?
Delta 2313	-	2	DSV-3P-4B	-	-	1	29580.0	200	-500	?
Delta 2313	-	3	Star 37D	-	-	1	29580.0	37800	200	?
Delta 2313	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2913	-	0	Castor 2	-	-	9	29580.0	32	-6340	?
Delta 2913	-	1	ELT Thor DSV-2W-1	-	-	1	29580.0	160	-4830	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Delta 2913	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 2913	-	3	Star 37D	-	-	1	29580.0	200	200	?
Delta 2913	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2914	-	0	Castor 2	-	-	9	29580.0	32	-6340	?
Delta 2914	-	1	ELT Thor DSV-2W-1	-	-	1	29580.0	160	-4830	?
Delta 2914	-	2	DSV-3P-4B	-	-	1	29580.0	231	-500	?
Delta 2914	-	3	Star 37E	-	-	1	29580.0	35780	230	?
Delta 2914	-	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 2914	C	0	Castor 2	-	-	9	29580.0	32	-6340	?
Delta 2914	C	1	ELT Thor DSV-2W-1	-	-	1	29580.0	200	-1000	?
Delta 2914	C	2	DSV-3P-4B	-	-	1	29580.0	170	-4250	?
Delta 2914	C	3	Star 37C	-	-	1	29580.0	35780	230	?
Delta 2914	C	F	Fairing	-	-	2	29580.0	170	-4250	?
Delta 3910	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3910	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3910	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 3910	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3910/PAM	-	0	Castor 4	-	-	9	29580.0	75	-6100	?
Delta 3910/PAM	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4200	?
Delta 3910/PAM	-	2	DSV-3P-4B	-	-	1	29580.0	300	-750	?
Delta 3910/PAM	-	3	Star 48B	-	-	1	29580.0	35900	300	?
Delta 3910/PAM	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3913	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3913	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3913	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 3913	-	3	Star 37N	-	-	1	29580.0	24900	200	?
Delta 3913	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3914	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3914	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3914	-	2	DSV-3P-4B	-	-	1	29580.0	200	200	?
Delta 3914	-	3	Star 37E	-	-	1	29580.0	35780	200	?
Delta 3914	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3920-8	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3920-8	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3920-8	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 3920-8	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3920	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3920	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3920	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 3920	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3920/PAM	-	0	Castor 4	-	-	9	29580.0	70	-6100	?
Delta 3920/PAM	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 3920/PAM	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 3920/PAM	-	3	Star 48B	-	-	1	29580.0	35780	200	?
Delta 3920/PAM	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 3924	-	0	Castor 4	-	-	9	29580.0	75	-6100	?
Delta 3924	-	1	ELT Thor DSV-2W	-	-	1	29580.0	145	-4200	?
Delta 3924	-	2	Delta/0020	-	-	1	29580.0	500	170	?
Delta 3924	-	3	Star 37E	-	-	1	29580.0	35786	170	?
Delta 3924	-	F	Fairing	-	-	2	29580.0	145	-4200	?
Delta 4925-8	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?
Delta 4925-8	-	1	ELT Thor DSV-2L	-	-	1	29580.0	150	-4100	?
Delta 4925-8	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 4925-8	-	3	Star 48B	-	-	1	29580.0	35780	200	?
Delta 4925-8	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 5920-8	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?
Delta 5920-8	-	1	ELT Thor DSV-2W	-	-	1	29580.0	150	-4100	?
Delta 5920-8	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 5920-8	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 6920-8	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?
Delta 6920-8	-	1	EELT Thor	-	-	1	29580.0	150	-4100	?
Delta 6920-8	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 6920-8	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 6920-10	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?
Delta 6920-10	-	1	EELT Thor	-	-	1	29580.0	150	-4100	?
Delta 6920-10	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 6920-10	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 6925-8	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?
Delta 6925-8	-	1	EELT Thor	-	-	1	29580.0	150	-4100	?
Delta 6925-8	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 6925-8	-	3	Star 48B	-	-	1	29580.0	35780	200	?
Delta 6925-8	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 6925	-	0	Castor 4A	-	-	9	29580.0	70	-6100	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Delta 6925	-	1	EELT Thor	-	-	1	29580.0	150	-4100	?
Delta 6925	-	2	Delta/0020	-	-	1	29580.0	200	200	?
Delta 6925	-	3	Star 48B	-	-	1	29580.0	35780	200	?
Delta 6925	-	F	Fairing	-	-	2	29580.0	150	-4100	?
Delta 7320-10	-	0	GEM-40	-	-	3	94800.0	35	-6350	?
Delta 7320-10	-	1	EELT Thor	-	-	1	283500.0	150	-4900	?
Delta 7320-10	-	2	Delta/0020	-	-	1	283500.0	590	590	?
Delta 7320-10	-	F	Fairing	-	-	2	283500.0	165	-4830	?
Delta 7320-10C	-	0	GEM-40	-	-	3	94800.0	35	-6350	?
Delta 7320-10C	-	1	EELT Thor	-	-	1	283500.0	150	-4900	?
Delta 7320-10C	-	2	Delta/0020	-	-	1	283500.0	590	590	?
Delta 7320-10C	-	F	Fairing	-	-	2	283500.0	165	-4830	?
Delta 7326-9.5	-	0	GEM-40	-	-	3	94800.0	21	-6340	?
Delta 7326-9.5	-	1	EELT Thor	-	-	1	283500.0	170	-4100	?
Delta 7326-9.5	-	2	Delta/0020	-	-	1	283500.0	1000	185	?
Delta 7326-9.5	-	3	Star 37FM	-	-	1	283500.0	45000	1000	?
Delta 7326-9.5	-	F	Fairing	-	-	2	283500.0	165	-4830	?
Delta 7420-10C	-	0	GEM-40	-	-	4	126400.0	30	-6330	?
Delta 7420-10C	-	1	EELT Thor	-	-	1	283500.0	150	-4500	?
Delta 7420-10C	-	2	Delta/0020	-	-	1	283500.0	1200	150	?
Delta 7420-10C	-	F	Fairing	-	-	2	283500.0	150	-4500	?
Delta 7425-9.5	-	0	GEM-40	-	-	4	126400.0	20	-6300	?
Delta 7425-9.5	-	1	EELT Thor	-	-	1	283500.0	150	-4500	?
Delta 7425-9.5	-	2	Delta/0020	-	-	1	283500.0	200	200	?
Delta 7425-9.5	-	3	Star 48B	-	-	1	283500.0	37800	200	?
Delta 7425-9.5	-	F	Fairing	-	-	2	283500.0	150	-4500	?
Delta 7425-10	-	0	GEM-40	-	-	4	126400.0	28	-6320	?
Delta 7425-10	-	1	EELT Thor	-	-	1	283500.0	160	-4470	?
Delta 7425-10	-	2	Delta/0020	-	-	1	283500.0	180	180	?
Delta 7425-10	-	3	Star 48B	-	-	1	283500.0	180	180	?
Delta 7425-10	-	F	Fairing	-	-	2	283500.0	150	-4500	?
Delta 7426-9.5	-	0	GEM-40	-	-	4	126400.0	30	-6330	?
Delta 7426-9.5	-	1	EELT Thor	-	-	1	283500.0	170	-4200	?
Delta 7426-9.5	-	2	Delta/0020	-	-	1	283500.0	180	180	?
Delta 7426-9.5	-	3	Star 37FM	-	-	1	283500.0	180	180	?
Delta 7426-9.5	-	F	Fairing	-	-	2	283500.0	170	-4200	?
Delta 7920-8	-	0	GEM-40	-	-	9	284400.0	70	-6200	?
Delta 7920-8	-	1	EELT Thor	-	-	1	283500.0	185	-2700	?
Delta 7920-8	-	2	Delta/0020	-	-	1	283500.0	185	185	?
Delta 7920-8	-	F	Fairing	-	-	2	283500.0	185	-2700	?
Delta 7920-10	-	0	GEM-40	-	-	9	283500.0	75	-6200	?
Delta 7920-10	-	1	EELT Thor	-	-	1	283500.0	170	-4140	?
Delta 7920-10	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7920-10	-	F	Fairing	-	-	2	283500.0	170	-4120	?
Delta 7920-10C	-	0	GEM-40	-	-	9	284400.0	75	-6200	?
Delta 7920-10C	-	1	EELT Thor	-	-	1	283500.0	170	-4200	?
Delta 7920-10C	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7920-10C	-	F	Fairing	-	-	2	283500.0	170	-4200	?
Delta 7920-10L	-	0	GEM-40	-	-	9	284400.0	75	-6200	?
Delta 7920-10L	-	1	EELT Thor	-	-	1	283500.0	170	-4200	?
Delta 7920-10L	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7920-10L	-	F	Fairing	-	-	2	283500.0	170	-4200	?
Delta 7925	-	0	GEM-40	-	-	9	284400.0	85	-6100	?
Delta 7925	-	1	EELT Thor	-	-	1	283500.0	170	-3700	?
Delta 7925	-	2	Delta/0020	-	-	1	283500.0	180	180	?
Delta 7925	-	3	Star 48B	-	-	1	283500.0	37800	200	?
Delta 7925	-	F	Fairing	-	-	2	283500.0	175	-3700	?
Delta 7925H	-	0	GEM-46	-	-	9	284400.0	85	-5800	?
Delta 7925H	-	1	EELT Thor	-	-	1	283500.0	120	-3400	?
Delta 7925H	-	2	Delta/0020	-	-	1	283500.0	160	160	?
Delta 7925H	-	3	Star 48B	-	-	1	283500.0	160	160	?
Delta 7925H	-	F	Fairing	-	-	2	283500.0	120	-3400	?
Delta 7920H	-	0	GEM-46	-	-	9	284400.0	75	-6100	?
Delta 7920H	-	1	EELT Thor	-	-	1	283500.0	160	-3400	?
Delta 7920H	-	2	Delta/0020	-	-	1	283500.0	160	160	?
Delta 7920H	-	F	Fairing	-	-	2	283500.0	160	-3400	?
Delta 7925-8	-	0	GEM-40	-	-	9	284400.0	85	-6100	?
Delta 7925-8	-	1	EELT Thor	-	-	1	283500.0	170	-3700	?
Delta 7925-8	-	2	Delta/0020	-	-	1	283500.0	180	180	?
Delta 7925-8	-	3	Star 48B	-	-	1	283500.0	37800	200	?
Delta 7925-8	-	F	Fairing	-	-	2	283500.0	170	-3700	?
Delta 7925-9.5	-	0	GEM-40	-	-	9	284400.0	85	-6100	?
Delta 7925-9.5	-	1	EELT Thor	-	-	1	283500.0	170	-3700	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Delta 7925-9.5	-	2	Delta/0020	-	-	1	283500.0	180	180	?
Delta 7925-9.5	-	3	Star 48B	-	-	1	283500.0	37800	200	?
Delta 7925-9.5	-	F	Fairing	-	-	2	283500.0	170	-3600	?
Delta 7925-10	-	0	GEM-40	-	-	9	284400.0	65	-6180	?
Delta 7925-10	-	1	EELT Thor	-	-	1	283500.0	170	-4250	?
Delta 7925-10	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7925-10	-	3	Star 48B	-	-	1	283500.0	50550	185	?
Delta 7925-10	-	F	Fairing	-	-	2	283500.0	180	-4200	?
Delta 7925-10C	-	0	GEM-40	-	-	9	284400.0	65	-6180	?
Delta 7925-10C	-	1	EELT Thor	-	-	1	283500.0	170	-4250	?
Delta 7925-10C	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7925-10C	-	3	Star 48B	-	-	1	283500.0	50550	185	?
Delta 7925-10C	-	F	Fairing	-	-	2	283500.0	180	-4200	?
Delta 7925-10L	-	0	GEM-40	-	-	9	284400.0	65	-6180	?
Delta 7925-10L	-	1	EELT Thor	-	-	1	283500.0	170	-4250	?
Delta 7925-10L	-	2	Delta/0020	-	-	1	283500.0	170	170	?
Delta 7925-10L	-	3	Star 48B	-	-	1	283500.0	50550	185	?
Delta 7925-10L	-	F	Fairing	-	-	2	283500.0	180	-4200	?
Delta 8930	-	0	GEM-46	-	-	9	411562.0	90	-5950	?
Delta 8930	-	1	Delta III Stage 1	-	-	1	283500.0	175	-4830	?
Delta 8930	-	2	Delta III Stage 2	-	-	1	77000.0	170	170	?
Delta 8930	-	F	Fairing	-	-	2	77000.0	150	-5000	?
N-1	-	0	Castor 2	-	-	3	77000.0	50	-6100	?
N-1	-	1	LT Thor N	-	-	1	77000.0	150	-5500	?
N-1	-	2	LE-3	-	-	1	77000.0	1000	-3200	?
N-1	-	3	Star 37N	-	-	1	77000.0	1000	1000	?
N-1	-	F	Fairing	-	-	2	77000.0	150	-5500	?
N-2	-	0	Castor 2	-	-	9	77000.0	50	-6100	?
N-2	-	1	ELT Thor N	-	-	1	77000.0	150	-5500	?
N-2	-	2	AJ10-118FJ	-	-	1	77000.0	500	170	?
N-2	-	3	Star 37E	-	-	1	77000.0	35800	180	?
N-2	-	F	Fairing	-	-	2	77000.0	150	-5500	?
N-2	(2)	0	Castor 2	-	-	9	77000.0	50	-6100	?
N-2	(2)	1	ELT Thor N	-	-	1	77000.0	150	-5500	?
N-2	(2)	2	AJ10-118FJ	-	-	1	77000.0	1000	1000	?
N-2	(2)	F	Fairing	-	-	2	77000.0	150	-5500	?
H-1	-	0	Castor 2	-	-	9	77000.0	50	-6100	?
H-1	-	1	ELT Thor N	-	-	1	77000.0	150	-5500	?
H-1	-	2	LE-5	-	-	1	77000.0	600	100	?
H-1	-	3	UM129A	-	-	1	77000.0	35800	200	?
H-1	-	F	Fairing	-	-	2	77000.0	150	-5500	?
H-1	(2)	0	Castor 2	-	-	9	77000.0	50	-6100	?
H-1	(2)	1	ELT Thor N	-	-	1	77000.0	150	-5500	?
H-1	(2)	2	LE-5	-	-	1	77000.0	200	200	?
H-1	(2)	F	Fairing	-	-	2	77000.0	150	-5500	?
H-1	6R	0	Castor 2	-	-	6	77000.0	50	-6100	?
H-1	6R	1	ELT Thor N	-	-	1	77000.0	150	-5500	?
H-1	6R	2	LE-5	-	-	1	77000.0	220	-1000	?
H-1	6R	3	UM129A	-	-	1	77000.0	35800	200	?
H-1	6R	F	Fairing	-	-	2	77000.0	150	-5500	?
R-39	-	1	R-39 St 1	-	-	1	77000.0	40	-6370	?
R-39	-	2	R-39 St 2	-	-	1	77000.0	200	-6000	?
R-39	-	3	R-39 St 3	-	-	1	77000.0	1000	-4000	?
R-39U	-	1	R-39 St 1	-	-	1	77000.0	40	-6370	?
R-39U	-	2	R-39 St 2	-	-	1	77000.0	200	-6000	?
R-39U	-	3	R-39 St 3	-	-	1	77000.0	1000	-4000	?
R-39UTTKh	-	1	3M91 St 1	-	-	1	77000.0	40	-6370	?
R-39UTTKh	-	2	3M91 St 2	-	-	1	77000.0	200	-6000	?
R-39UTTKh	-	3	3M91 St 3	-	-	1	77000.0	1000	-4000	?
Grom	-	1	R-39 St 1	-	-	1	77000.0	0	-6378	?
Grom	-	2	R-39 St 2	-	-	1	77000.0	0	-6378	?
Grom	-	3	R-39 St 3	-	-	1	77000.0	0	-6378	?
RT-23 15Zh44	-	1	15Zh44 St 1	-	-	1	77000.0	50	-6370	?
RT-23 15Zh44	-	2	15Zh44 St 2	-	-	1	77000.0	200	-6000	?
RT-23 15Zh44	-	3	RT-23 St 3	-	-	1	77000.0	1000	-4000	?
RT-23 15Zh44	-	F	GO	-	-	1	77000.0	200	-6000	?
RT-23 15Zh52	-	1	15Zh52 St 1	-	-	1	77000.0	50	-6370	?
RT-23 15Zh52	-	2	15Zh52 St 2	-	-	1	77000.0	200	-6000	?
RT-23 15Zh52	-	3	RT-23 St 3	-	-	1	77000.0	1000	-4000	?
RT-23 15Zh52	-	F	GO	-	-	1	77000.0	200	-6000	?
RT-23U 15Zh61	-	1	15Zh61 St 1	-	-	1	77000.0	50	-6370	?
RT-23U 15Zh61	-	2	15Zh61 St 2	-	-	1	77000.0	200	-6000	?
RT-23U 15Zh61	-	3	RT-23 St 3	-	-	1	77000.0	1000	-4000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
RT-23U 15Zh61	-	F	GO	-	-	1	77000.0	200	-6000	?
RT-23U 15Zh60	-	1	15Zh60 St 1	-	-	1	77000.0	50	-6370	?
RT-23U 15Zh60	-	2	15Zh60 St 2	-	-	1	77000.0	200	-6000	?
RT-23U 15Zh60	-	3	RT-23 St 3	-	-	1	77000.0	1000	-4000	?
RT-23U 15Zh60	-	F	GO	-	-	1	77000.0	200	-6000	?
Hwasong-18	-	1	HS-18 St1	-	-	1	77000.0	50	-6000	?
Hwasong-18	-	2	HS-18 St2	-	-	1	77000.0	50	-6000	?
Hwasong-18	-	3	HS-18 St3	-	-	1	77000.0	50	-6000	?
Hwasong-19	-	1	HS-19 St1	-	-	1	77000.0	50	-6000	?
Hwasong-19	-	2	HS-18 St2	-	-	1	77000.0	50	-6000	?
Hwasong-19	-	3	HS-18 St3	-	-	1	77000.0	50	-6000	?
Hwasong-16	-	1	HS-18 St1	-	-	1	77000.0	50	-6000	?
Hwasong-16	-	2	HS-18 St2	-	-	1	77000.0	50	-6000	?
Hwasong-16Na	-	1	HS-18 St1	-	-	1	77000.0	50	-6000	?
Hwasong-16Na	-	2	HS-18 St2	-	-	1	77000.0	50	-6000	?
Cheonlima-1	-	1	Cheonlima-1 Stage 1	-	-	1	77000.0	70	-6100	?
Cheonlima-1	-	2	Cheonlima-1 Stage 2	-	-	1	77000.0	220	-5000	?
Cheonlima-1	-	3	Cheonlima-1 Stage 3	-	-	1	77000.0	220	-5000	?
NK Kerolox LV	-	1	NK Kerolox Stage 1	-	-	1	77000.0	70	-6100	?
NK Kerolox LV	-	2	Cheonlima-1 Stage 2	-	-	1	77000.0	220	-5000	?
NK Kerolox LV	-	3	Cheonlima-1 Stage 3	-	-	1	77000.0	220	-5000	?
Hwasong-15	-	1	Hwasong-15 Stage 1	-	-	1	77000.0	50	-6370	?
Hwasong-15	-	2	Hwasong-15 Stage 2	-	-	1	77000.0	3000	-6370	?
Unha-1	-	1	Taepo Dong 2	-	-	1	77000.0	70	-6100	?
Unha-1	-	2	Unha-1 Stage 2	-	-	1	77000.0	1000	-5000	?
Unha-2	-	1	Taepo Dong 2	-	-	1	77000.0	70	-6100	?
Unha-2	-	2	Unha-2 Stage 2	-	-	1	77000.0	220	-5000	?
Unha-2	-	3	Unha-2 Stage 3	-	-	1	77000.0	220	-5000	?
Unha-3	-	1	Taepo Dong 2	-	-	1	77000.0	70	-6100	?
Unha-3	-	2	Unha-2 Stage 2	-	-	1	77000.0	220	-5000	?
Unha-3	-	3	Unha-3 Stage 3	-	-	1	77000.0	220	-5000	?
Kwangmyongsong	-	1	Taepo Dong 2	-	-	1	77000.0	70	-6100	?
Kwangmyongsong	-	2	Unha-2 Stage 2	-	-	1	77000.0	220	-5000	?
Kwangmyongsong	-	3	Unha-3 Stage 3	-	-	1	77000.0	220	-5000	?
Simorgh	-	1	Simorgh Stage 1	-	-	1	77000.0	70	-5000	?
Simorgh	-	2	Simorgh Stage 2	-	-	1	77000.0	500	500	?
Simorgh	3	1	Simorgh Stage 1	-	-	1	77000.0	70	-5000	?
Simorgh	3	2	Simorgh Stage 2	-	-	1	77000.0	500	-5000	?
Simorgh	3	3	Saman-1	-	-	1	77000.0	500	500	?
R-14	-	1	R-14	-	-	1	77000.0	670	-5300	?
R-14U	-	1	R-14	-	-	1	77000.0	670	-5300	?
Kosmos 65S3	-	1	R-14	-	-	1	77000.0	100	-6100	?
Kosmos 65S3	-	2	S3	-	-	1	77000.0	200	200	?
Kosmos 65S3	-	F	Fairing	-	-	2	77000.0	100	-6100	?
Kosmos 11K65	-	1	R-14	-	-	1	77000.0	140	-6100	?
Kosmos 11K65	-	2	S3	-	-	1	77000.0	200	200	?
Kosmos 11K65	-	F	Fairing	-	-	2	77000.0	140	-6100	?
Kosmos 11K65M	-	1	R-14 11K65MA	-	-	1	226900.0	140	-6100	?
Kosmos 11K65M	-	2	S3M	-	-	1	52600.0	200	200	?
Kosmos 11K65M	-	F	Fairing	-	-	2	52600.0	140	-6100	?
Vertikal' K65UP	-	1	R-14	-	-	1	52600.0	1500	-6100	?
Vertikal' K65UP	-	F	Fairing	-	-	2	52600.0	1500	-6100	?
K65M-R	-	1	R-14	-	-	1	52600.0	500	-5800	?
K65M-R	-	2	S3M	-	-	1	52600.0	500	-5800	?
K65M-R	-	P	K65M-R RV	-	-	1	52600.0	500	-5800	?
K65M-RB	-	1	R-14	-	-	1	52600.0	500	-5800	?
K65M-RB	-	2	S3M	-	-	1	52600.0	500	-5800	?
K65M-RB	-	F	K65M Fairing	-	-	2	52600.0	500	-5800	?
Burya	-	1	Burya booster	-	-	2	52600.0	2	-6378	?
Burya	-	2	Burya	-	-	1	52600.0	15	-6378	?
ICBM-T3	-	1	SR119	-	-	1	52600.0	50	-6200	?
ICBM-T3	-	2	Orion 50SXLT	-	-	1	52600.0	70	-6000	?
ICBM-T3	-	3	Orion 50	-	-	1	52600.0	300	-5000	?
ARPA Taurus	-	1	SR118	-	-	1	52600.0	50	-6200	?
ARPA Taurus	-	2	Orion 50	-	-	1	52600.0	180	-5000	?
ARPA Taurus	-	3	Orion 50	-	-	1	52600.0	714	-3000	?
ARPA Taurus	-	4	Orion 38	-	-	1	52600.0	740	740	?
ARPA Taurus	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Taurus 2110	-	1	Castor 120	-	-	1	52600.0	50	-6200	?
Taurus 2110	-	2	Orion 50	-	-	1	52600.0	180	-5000	?
Taurus 2110	-	3	Orion 50	-	-	1	52600.0	740	-3000	?
Taurus 2110	-	4	Orion 38	-	-	1	52600.0	740	740	?
Taurus 2110	-	F	Fairing	-	-	2	52600.0	180	-5000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Taurus 2210	-	1	Castor 120	-	-	1	52600.0	50	-6200	?
Taurus 2210	-	2	Orion 50	-	-	1	52600.0	180	-5000	?
Taurus 2210	-	3	Orion 50	-	-	1	52600.0	740	-3000	?
Taurus 2210	-	4	Orion 38	-	-	1	52600.0	740	740	?
Taurus 2210	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Taurus 3210	-	1	Castor 120	-	-	1	52600.0	50	-6200	?
Taurus 3210	-	2	Orion 50SXLG	-	-	1	52600.0	180	-5000	?
Taurus 3210	-	3	Orion 50XL	-	-	1	52600.0	714	-2836	?
Taurus 3210	-	4	Orion 38	-	-	1	52600.0	740	740	?
Taurus 3210	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Taurus 3110	-	1	Castor 120	-	-	1	52600.0	50	-6200	?
Taurus 3110	-	2	Orion 50SXLG	-	-	1	52600.0	180	-5000	?
Taurus 3110	-	3	Orion 50XL	-	-	1	52600.0	714	-2836	?
Taurus 3110	-	4	Orion 38	-	-	1	52600.0	740	740	?
Taurus 3110	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Taurus 1110	-	1	SR118	-	-	1	52600.0	50	-6200	?
Taurus 1110	-	2	Orion 50	-	-	1	52600.0	180	-5000	?
Taurus 1110	-	3	Orion 50	-	-	1	52600.0	714	-3000	?
Taurus 1110	-	4	Orion 38	-	-	1	52600.0	740	740	?
Taurus 1110	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Minotaur-C 3210	-	1	Castor 120	-	-	1	52600.0	50	-6200	?
Minotaur-C 3210	-	2	Orion 50SXLG	-	-	1	52600.0	180	-5000	?
Minotaur-C 3210	-	3	Orion 50XL	-	-	1	52600.0	714	-2836	?
Minotaur-C 3210	-	4	Orion 38	-	-	1	52600.0	740	740	?
Minotaur-C 3210	-	F	Fairing	-	-	2	52600.0	180	-5000	?
Peacekeeper	-	1	SR118	-	-	1	52600.0	34	-6320	?
Peacekeeper	-	2	SR119	-	-	1	52600.0	120	-6050	?
Peacekeeper	-	3	SR120	-	-	1	52600.0	920	-3800	?
Peacekeeper	-	4	Peacekeeper PBPS	-	-	1	52600.0	1000	-3700	?
Peacekeeper	-	F	Fairing	-	-	1	52600.0	120	-6050	?
LLV-1	-	1	Castor 120	-	-	1	133774.0	140	-5900	?
LLV-1	-	2	Orbus 21D	-	-	1	28050.0	200	-340	?
LLV-1	-	3	OAM	-	-	1	500.0	800	240	?
LLV-1	-	F	Fairing	-	-	2	500.0	140	-5900	?
LMLV-1	-	1	Castor 120	-	-	1	133774.0	140	-5900	?
LMLV-1	-	2	Orbus 21D	-	-	1	28050.0	200	-340	?
LMLV-1	-	3	OAM	-	-	1	500.0	800	240	?
LMLV-1	-	F	Fairing	-	-	2	500.0	140	-5900	?
Athena-1	-	1	Castor 120	-	-	1	133774.0	140	-5900	?
Athena-1	-	2	Orbus 21D	-	-	1	28050.0	200	-340	?
Athena-1	-	3	OAM	-	-	1	500.0	800	240	?
Athena-1	-	F	Fairing	-	-	2	500.0	140	-5900	?
Athena-2	-	1	Castor 120	-	-	1	133774.0	20	-6300	?
Athena-2	-	2	Castor 120	-	-	1	133774.0	180	-5600	?
Athena-2	-	3	Orbus 21D	-	-	1	28050.0	400	200	?
Athena-2	-	4	OAM	-	-	1	500.0	600	200	?
Athena-2	-	F	Fairing	-	-	2	500.0	180	-5600	?
Minotaur V	-	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur V	-	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur V	-	3	SR120	-	-	1	500.0	920	-3800	?
Minotaur V	-	4	Star 48V	-	-	1	500.0	500	500	?
Minotaur V	-	5	Star 37FM	-	-	1	500.0	200000	200	?
Minotaur IV	-	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur IV	-	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur IV	-	3	SR120	-	-	1	500.0	920	-3800	?
Minotaur IV	-	4	GCA/Orion 38	-	-	1	500.0	500	500	?
Minotaur IV	-	F	Fairing	-	-	1	500.0	120	-6050	?
Minotaur IV	H	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur IV	H	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur IV	H	3	SR120	-	-	1	500.0	920	-3800	?
Minotaur IV	H	4	GCA/Orion 38	-	-	1	500.0	500	500	?
Minotaur IV	H	5	HAPS Stage	-	-	1	500.0	500	500	?
Minotaur IV	2	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur IV	2	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur IV	2	3	SR120	-	-	1	500.0	920	-3800	?
Minotaur IV	2	4	GCA/Orion 38	-	-	1	500.0	500	500	?
Minotaur IV	2	5	GCA/Orion 38	-	-	1	500.0	500	500	?
Minotaur IV	2	F	Fairing	-	-	1	500.0	120	-6050	?
Minotaur IV+	-	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur IV+	-	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur IV+	-	3	SR120	-	-	1	500.0	920	-3800	?
Minotaur IV+	-	4	Star 48V	-	-	1	500.0	500	500	?
Minotaur IV+	-	F	Fairing	-	-	1	500.0	120	-6050	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Minotaur IV Lite	-	1	SR118	-	-	1	500.0	34	-6320	?
Minotaur IV Lite	-	2	SR119	-	-	1	500.0	120	-6050	?
Minotaur IV Lite	-	3	SR120	-	-	1	500.0	120	-3800	?
Minotaur IV Lite	-	F	Fairing	-	-	1	500.0	120	-6050	?
MSBS M51	-	1	MSBS 501	-	-	1	500.0	50	-6370	?
MSBS M51	-	2	MSBS 502	-	-	1	500.0	100	-6300	?
MSBS M51	-	3	MSBS 503	-	-	1	500.0	1000	-5500	?
MSBS M51	-	F	Nose Cone	-	-	1	500.0	100	-6300	?
Terran 1	-	1	Terran 1 St 1	-	-	1	500.0	100	-6300	?
Terran 1	-	2	Terran 1 St 2	-	-	1	500.0	500	500	?
Terran 1	-	F	Fairing	-	-	1	500.0	100	-6300	?
MR-UR-100	-	1	MR-UR-100 St 1	-	-	1	500.0	70	-6300	?
MR-UR-100	-	2	MR-UR-100 St 2	-	-	1	500.0	200	-5500	?
MR-UR-100	-	3	MR-UR-100 BR	-	-	1	500.0	1000	-4500	?
MR-UR-100U 15A16	-	1	MR-UR-100 St 1	-	-	1	500.0	70	-6300	?
MR-UR-100U 15A16	-	2	MR-UR-100 St 2	-	-	1	500.0	200	-5500	?
MR-UR-100U 15A16	-	3	MR-UR-100 BR	-	-	1	500.0	1000	-4500	?
Perimetr 15A11	-	1	Perimetr Stage 1	-	-	1	500.0	100	-6100	?
Perimetr 15A11	-	2	Perimetr Stage 2	-	-	1	500.0	1000	-5000	?
DF-3	-	1	DF3-YF2A	-	-	1	500.0	500	-6300	?
DF-3A	-	1	DF3-YF2A	-	-	1	500.0	500	-6300	?
DF-4	-	1	DF3-YF2A	-	-	1	500.0	50	-6370	?
DF-4	-	2	DF4-YF3	-	-	1	500.0	500	-6300	?
Chang Zheng 1	-	1	DF3-YF2A	-	-	1	500.0	90	-6200	?
Chang Zheng 1	-	2	DF4-YF3	-	-	1	500.0	400	-5300	?
Chang Zheng 1	-	3	GF-02	-	-	1	500.0	2400	440	?
Chang Zheng 1	-	F	Fairing	-	-	2	500.0	100	-6200	?
Chang Zheng 1D	-	1	DF3-YF2A	-	-	1	500.0	90	-6200	?
Chang Zheng 1D	-	2	DF4-YF3	-	-	1	500.0	500	-5300	?
Chang Zheng 1D	-	3	GF-02	?	-	1	500.0	500	-5300	?
Chang Zheng 1D	-	F	Fairing	-	-	2	500.0	100	-6200	?
Kuaizhou-11	-	1	KZ-11 St1	-	-	1	500.0	50	-6300	?
Kuaizhou-11	-	2	KZ-11 St2	-	-	1	500.0	200	-5500	?
Kuaizhou-11	-	3	KZ-11 St3	-	-	1	500.0	500	500	?
DF-41	-	1	DF-41 St1	-	-	1	500.0	50	-6300	?
DF-41	-	2	DF-41 St2	-	-	1	500.0	200	-5500	?
DF-41	-	3	DF-41 St3	-	-	1	500.0	1000	-4000	?
DF-31	-	1	DF-31 St1	-	-	1	500.0	50	-6300	?
DF-31	-	2	DF-31 St2	-	-	1	500.0	200	-5500	?
DF-31	-	3	DF-31 St3	-	-	1	500.0	1000	-4000	?
JL-2	-	1	DF-31 St1	-	-	1	500.0	50	-6300	?
JL-2	-	2	DF-31 St2	-	-	1	500.0	200	-5500	?
JL-2	-	3	DF-31 St3	-	-	1	500.0	1000	-4000	?
JL-3	-	1	DF-31 St1	-	-	1	500.0	50	-6300	?
JL-3	-	2	DF-31 St2	-	-	1	500.0	200	-5500	?
JL-3	-	3	DF-31 St3	-	-	1	500.0	1000	-4000	?
Chang Zheng 11	-	1	CZ-11-1	-	-	1	500.0	200	-6370	?
Chang Zheng 11	-	2	CZ-11-2	-	-	1	500.0	200	-6370	?
Chang Zheng 11	-	3	CZ-11-3	-	-	1	500.0	200	-6370	?
Chang Zheng 11	-	4	CZ-11-4	-	-	1	500.0	700	700	?
Chang Zheng 11	H	1	CZ-11-1	-	-	1	500.0	200	-6370	?
Chang Zheng 11	H	2	CZ-11-2	-	-	1	500.0	200	-6370	?
Chang Zheng 11	H	3	CZ-11-3	-	-	1	500.0	200	-6370	?
Chang Zheng 11	H	4	CZ-11-4	-	-	1	500.0	700	700	?
KT-2	-	1	DF-31 St1	-	-	1	500.0	50	-6300	?
KT-2	-	2	DF-31 St2	-	-	1	500.0	200	-5500	?
KT-2	-	3	DF-31 St3	-	-	1	500.0	1000	-4000	?
ADD TV1	d	1	ADD SLV St2	-	-	1	500.0	100	-6378	?
ADD TV1	d	2	ADD SLV St3	-	d	1	500.0	200	-6000	?
ADD TV1	d	3	ADD SLV St4	-	d	1	500.0	200	-6000	?
ADD TV1	-	1	ADD SLV St2	-	-	1	500.0	100	-6378	?
ADD TV1	-	2	ADD SLV St3	-	-	1	500.0	200	-6000	?
ADD TV1	-	3	ADD SLV St4	-	-	1	500.0	200	-6000	?
ADD TV2	-	1	ADD SLV St1	-	-	1	500.0	100	-6378	?
ADD TV2	-	2	ADD SLV St3	-	-	1	500.0	200	-6000	?
ADD TV2	-	3	ADD SLV St4	-	-	1	500.0	500	500	?
Hyunmoo-5	-	1	ADD SLV St1	-	?	1	500.0	100	-6378	?
Hyunmoo-5	-	2	ADD SLV St2	-	?	1	500.0	100	-6378	?
Trident D-5	-	1	Trident D-5 Stage 1	-	-	1	500.0	40	-6370	?
Trident D-5	-	2	Trident D-5 Stage 2	-	-	1	500.0	150	-6000	?
Trident D-5	-	3	Trident D-5 Stage 3	-	-	1	500.0	1000	-4500	?
Trident D-5	-	F	Fairing	-	-	1	500.0	150	-6000	?
ISRO TV	-	1	ISRO TV	-	-	1	500.0	20	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Little Joe 1	4P	0	Recruit	-	-	4	500.0	25	-6368	?
Little Joe 1	4P	1	Pollux	-	-	4	500.0	25	-6368	?
Little Joe 1	2P	0	Recruit	-	-	4	500.0	25	-6368	?
Little Joe 1	2P	1	Pollux	-	-	2	500.0	25	-6368	?
Little Joe 1	2C	0	Recruit	-	-	4	500.0	25	-6368	?
Little Joe 1	2C	1	Castor	-	-	2	500.0	25	-6368	?
Little Joe 1	4C	0	Recruit	-	-	4	500.0	25	-6368	?
Little Joe 1	4C	1	Castor	-	-	4	500.0	25	-6368	?
Cora	-	1	Coralie	-	-	1	500.0	55	-6300	?
Cora	-	2	Astris	-	d	1	500.0	55	-6300	?
Spectrum	-	1	Spectrum Stage 1	-	-	1	500.0	100	-6300	?
Spectrum	-	2	Spectrum Stage 2	-	-	1	500.0	500	500	?
PRS-1 5Ya26	-	1	5Ya26	-	-	1	500.0	100	-6300	?
PRS-1	-	1	53T6	-	-	1	500.0	100	-6300	?
PRS-1	-	P	53T6 KV	-	-	1	500.0	100	-6300	?
PRS-1M	-	1	53T6	-	-	1	500.0	100	-6300	?
PRS-1M	-	P	53T6 KV	-	-	1	500.0	100	-6300	?
Black Arrow	-	1	Black Arrow	-	-	1	500.0	92	-6291	?
Black Arrow	-	2	Black Arrow St2	-	-	1	500.0	550	-5040	?
Black Arrow	-	3	Waxwing	-	-	1	500.0	1580	550	?
Black Arrow	-	F	Fairing	-	-	2	500.0	150	-6166	?
Black Arrow	BA0	1	Black Arrow	-	-	1	500.0	92	-6291	?
Black Arrow	BA0	2	Black Arrow St2	-	-	1	500.0	550	-5040	?
Black Arrow	BA0	3	Waxwing	-	d	1	500.0	550	-5040	?
Black Arrow	BA0	F	Fairing	-	-	2	500.0	150	-6166	?
Eris Block 1	-	1	Eris Stage 1	-	-	1	500.0	50	-6300	?
Eris Block 1	-	2	Eris Stage 2	-	-	1	500.0	500	-5000	?
Eris Block 1	-	3	Eris Stage 3	-	-	1	500.0	500	500	?
Agni 5	-	1	Agni V	-	-	1	500.0	40	-6300	?
Agni 5	-	2	Agni V Stage 2	-	-	1	500.0	400	-5000	?
Agni 5	-	3	Agni V Stage 3	-	-	1	500.0	400	-5000	?
Agni 3	-	1	Agni III	-	-	1	500.0	40	-6300	?
Agni 3	-	2	Agni III Stage 2	-	-	1	500.0	400	-5000	?
SSLV	-	1	SSLV SS1	-	-	1	500.0	50	-5000	?
SSLV	-	2	SSLV SS2	-	-	1	500.0	500	-2000	?
SSLV	-	3	SSLV SS3	-	-	1	500.0	500	200	?
SSLV	-	4	SSLV VTM	-	-	1	500.0	500	500	?
UR-100	-	1	8S816	-	-	1	500.0	100	-6100	?
UR-100	-	2	8S817	-	-	1	500.0	1000	-4500	?
UR-100M	-	1	8S816	-	-	1	500.0	100	-6100	?
UR-100M	-	2	8S817	-	-	1	500.0	1000	-4500	?
UR-100K	-	1	8S816	-	-	1	500.0	100	-6100	?
UR-100K	-	2	8S817	-	-	1	500.0	1000	-4500	?
UR-100U	-	1	8S816	-	-	1	500.0	100	-6100	?
UR-100U	-	2	8S817	-	-	1	500.0	1000	-4500	?
MSBS M45	-	1	MSBS 401	-	-	1	500.0	50	-6370	?
MSBS M45	-	2	MSBS 402	-	-	1	500.0	100	-6300	?
MSBS M45	-	3	MSBS 403	-	-	1	500.0	800	-5500	?
MSBS M45	-	F	Nose Cone	-	-	1	500.0	100	-6300	?
MSBS M4	-	1	MSBS 401	-	-	1	500.0	50	-6370	?
MSBS M4	-	2	MSBS 402	-	-	1	500.0	100	-6300	?
MSBS M4	-	3	MSBS 403	-	-	1	500.0	800	-5500	?
MSBS M4	-	F	Nose Cone	-	-	1	500.0	100	-6300	?
Vysota	-	1	R-29 St 1	-	-	1	500.0	100	-6100	?
Vysota	-	2	R-29 St 2	-	-	1	500.0	1000	-5000	?
Volna	-	1	R-29R St 1	-	-	1	500.0	200	-6100	?
Volna	-	2	R-29R St 2	-	-	1	500.0	1000	-5000	?
Volna	-	P	Volna RV	-	-	1	500.0	1000	-3000	?
Shtil'	-	1	R-29RM St1	-	-	1	500.0	70	-6100	?
Shtil'	-	2	R-29RM St2	-	-	1	500.0	500	-5000	?
Shtil'	-	3	R-29RM St3	-	-	1	500.0	1000	-3000	?
Shtil'	-	P	Shtil' RV	-	-	1	500.0	1000	-3000	?
Shtil'-1	-	1	R-29RM St1	-	-	1	500.0	70	-6100	?
Shtil'-1	-	2	R-29RM St2	-	-	1	500.0	500	-5000	?
Shtil'-1	-	3	R-29RM St3	-	-	1	500.0	750	300	?
Shtil'-1	-	P	Shtil' RV	-	-	1	500.0	1000	-3000	?
Sineva	-	1	R-29RM St1	-	-	1	500.0	70	-6100	?
Sineva	-	2	R-29RM St2	-	-	1	500.0	500	-5000	?
Sineva	-	3	R-29RM St3	-	-	1	500.0	1000	-3000	?
Layner	-	1	R-29RM St1	-	-	1	500.0	70	-6100	?
Layner	-	2	R-29RM St2	-	-	1	500.0	500	-5000	?
Layner	-	3	R-29RM St3	-	-	1	500.0	1000	-3000	?
Poseidon C3	-	1	C-3 Stage 1	-	-	1	500.0	50	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Poseidon C3	-	2	C-3 Stage 2	-	-	1	500.0	500	-6300	?
Poseidon C3	-	F	Fairing	-	-	1	500.0	50	-6370	?
Trident C-4	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
Trident C-4	-	2	Trident C-4 Stage 2	-	-	1	500.0	150	-6000	?
Trident C-4	-	3	Trident C-4 Stage 3	-	-	1	500.0	1000	-4500	?
Trident C-4	-	F	Fairing	-	-	1	500.0	150	-6000	?
ICBM-T1	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
ICBM-T1	-	2	Orion 50SXLT	-	-	1	500.0	70	-6000	?
ICBM-T1	-	3	Orion 50	-	-	1	500.0	300	-5000	?
ICBM-T2	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
ICBM-T2	-	2	Orion 50SXLT	-	-	1	500.0	70	-6000	?
ICBM-T2	-	3	Orion 50	-	-	1	500.0	300	-5000	?
LV-2	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
LV-2	-	2	Trident C-4 Stage 2	-	-	1	500.0	150	-6000	?
LV-2	-	F	Fairing	-	-	1	500.0	150	-6000	?
LV-3	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
LV-3	-	2	Trident C-4 Stage 1	-	-	1	500.0	100	-6370	?
LV-3	-	3	Trident C-4 Stage 2	-	-	1	500.0	1000	-6000	?
LV-3	-	F	Fairing	-	-	1	500.0	150	-6000	?
MRBM-T3c2	-	1	Trident C-4 Stage 1	-	-	1	500.0	40	-6370	?
MRBM-T3c2	-	2	M57A1	-	-	1	500.0	200	-6350	?
RT-1	-	1	8K95A	-	-	1	500.0	40	-6370	?
RT-1	-	2	8K95B	-	-	1	500.0	100	-6300	?
RT-1	-	3	8K95V	-	-	1	500.0	500	-6000	?
RT-2	-	1	8K98A	-	-	1	500.0	40	-6370	?
RT-2	-	2	8K98B	-	-	1	500.0	200	-6000	?
RT-2	-	3	8K98V	-	-	1	500.0	1000	-4000	?
RT-2P	-	1	8K98PA	-	-	1	500.0	50	-6370	?
RT-2P	-	2	8K96A	-	-	1	500.0	200	-6000	?
RT-2P	-	3	8K96B	-	-	1	500.0	1000	-4000	?
RT-2M	-	1	8K98PA	-	-	1	500.0	50	-6370	?
RT-2M	-	2	8K96A	-	-	1	500.0	200	-6000	?
RT-2M	-	3	8K96B	-	-	1	500.0	1000	-4000	?
LauncherOne	-	0	B747-CG	-	-	1	500.0	12	-6378	?
LauncherOne	-	1	LauncherOne Stage 1	-	-	1	500.0	100	-6378	?
LauncherOne	-	2	LauncherOne Stage 2	-	-	1	500.0	200	200	?
RS1	-	1	RS1 S1	-	-	1	500.0	100	-6378	?
RS1	-	2	RS1 S2	-	-	1	500.0	300	300	?
Firefly Alpha	-	1	Firefly Alpha St1	-	-	1	500.0	100	-6378	?
Firefly Alpha	-	2	Firefly Alpha St2	-	-	1	500.0	500	500	?
Topol'	-	1	15Zh58A	-	-	1	500.0	70	-6300	?
Topol'	-	2	15Zh58B	-	-	1	500.0	200	-6000	?
Topol'	-	3	15Zh58V	-	-	1	500.0	1000	-4000	?
Topol'	-	F	GO	-	-	1	500.0	100	-6200	?
Topol'	-	P	Topol' RV	-	-	1	500.0	1000	-4000	?
Topol'-E	-	1	15Zh58A	-	-	1	500.0	70	-6300	?
Topol'-E	-	2	15Zh58B	-	-	1	500.0	200	-6000	?
Topol'-E	-	3	15Zh58V	-	-	1	500.0	1000	-4000	?
Topol'-E	-	F	GO	-	-	1	500.0	100	-6200	?
Topol'-E	-	P	Topol'-E RV	-	-	1	500.0	1000	-4000	?
Topol'-M	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Topol'-M	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Topol'-M	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Topol'-M	-	F	GO	-	-	1	500.0	100	-6200	?
Topol'-M	-	P	Topol'-M RV	-	-	1	500.0	1000	-4000	?
Topol'-M 15Zh55	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Topol'-M 15Zh55	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Topol'-M 15Zh55	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Topol'-M 15Zh55	-	F	GO	-	-	1	500.0	100	-6200	?
Topol'-M 15Zh55	-	P	Topol'-M RV	-	-	1	500.0	1000	-4000	?
Perimetr-RTs	-	1	15Zh58A	-	-	1	500.0	70	-6300	?
Perimetr-RTs	-	2	15Zh58B	-	-	1	500.0	200	-6000	?
Perimetr-RTs	-	3	15Zh58V	-	-	1	500.0	1000	-4000	?
Perimetr-RTs	-	F	GO	-	-	1	500.0	100	-6200	?
Perimetr-RTs	-	P	Perimetr-RTs	-	-	1	500.0	1000	-4000	?
Skorost'	-	1	15Zh58A	-	-	1	500.0	70	-6300	?
Skorost'	-	2	15Zh58B	-	-	1	500.0	200	-6000	?
Skorost'	-	F	GO	-	-	1	500.0	100	-6200	?
Rubezh	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Rubezh	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Rubezh	-	F	GO	-	-	1	500.0	100	-6200	?
Oreshnik	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Oreshnik	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Oreshnik	-	F	GO	-	-	1	500.0	100	-6200	?
Yars	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Yars	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Yars	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Yars	-	F	GO	-	-	1	500.0	100	-6200	?
Yars-E	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Yars-E	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Yars-E	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Yars-E	-	F	GO	-	-	1	500.0	100	-6200	?
Yars-M	15Zh80	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Yars-M	15Zh80	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Yars-M	15Zh80	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Yars-M	15Zh80	F	GO	-	-	1	500.0	100	-6200	?
Yars-M	15Zh81	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Yars-M	15Zh81	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Yars-M	15Zh81	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Yars-M	15Zh81	F	GO	-	-	1	500.0	100	-6200	?
Yars 15Zh65M	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Yars 15Zh65M	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Yars 15Zh65M	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Yars 15Zh65M	-	F	GO	-	-	1	500.0	100	-6200	?
Bulava	-	1	15Zh58MA	-	-	1	500.0	70	-6300	?
Bulava	-	2	15Zh58MB	-	-	1	500.0	200	-6000	?
Bulava	-	3	15Zh58MV	-	-	1	500.0	1000	-4000	?
Start	-	1	15Zh58A	-	-	1	500.0	50	-6300	?
Start	-	2	15Zh58B	-	-	1	500.0	100	-5200	?
Start	-	3	15Zh58B	-	-	1	500.0	150	-4500	?
Start	-	4	15Zh58V	-	-	1	500.0	600	-2500	?
Start	-	5	Start	-	-	1	500.0	600	600	?
Start	-	6	DS	-	-	1	500.0	600	600	?
Start-1	-	1	15Zh58A	-	-	1	500.0	55	-6320	?
Start-1	-	2	15Zh58B	-	-	1	500.0	150	-5800	?
Start-1	-	3	15Zh58V	-	-	1	500.0	600	-4500	?
Start-1	-	4	Start	-	-	1	500.0	600	600	?
Start-1	-	5	DS	-	-	1	500.0	600	600	?
Start-1	-	F	Fairing	-	-	2	500.0	600	-4500	?
Start-1.2	-	1	15Zh58A	-	-	1	500.0	55	-6300	?
Start-1.2	-	2	15Zh58B	-	-	1	500.0	150	-5800	?
Start-1.2	-	3	15Zh58V	-	-	1	500.0	500	-4500	?
Start-1.2	-	4	Start	-	-	1	500.0	500	500	?
Start-1.2	-	5	DS	-	-	1	500.0	500	500	?
Start-1.2	-	F	Fairing	-	-	2	500.0	600	-4500	?
RT-20P	-	1	8K99A	-	-	1	500.0	100	-6100	?
RT-20P	-	2	8K94	-	-	1	500.0	1000	-4000	?
J-1	-	1	H-II SRB	-	-	1	500.0	95	-6360	?
J-1	-	2	M-23	-	-	1	500.0	110	-5450	?
Pioner	-	1	RT-21 St1	-	-	1	500.0	70	-6370	?
Pioner	-	2	RT-21 St2	-	-	1	500.0	500	-6300	?
Pioner UTTKh	-	1	RT-21 St1	-	-	1	500.0	70	-6370	?
Pioner UTTKh	-	2	RT-21 St2	-	-	1	500.0	500	-6300	?
Pioner-3	-	1	RT-21 St1	-	-	1	500.0	70	-6370	?
Pioner-3	-	2	RT-21 St2	-	-	1	500.0	500	-6300	?
Temp-2S	-	1	RT-21 St1	-	-	1	500.0	70	-6100	?
Temp-2S	-	2	RT-21 St2	-	-	1	500.0	300	-5500	?
Temp-2S	-	3	RT-21 St3	-	-	1	500.0	1000	-4000	?
Jupiter A	-	1	Redstone	-	-	1	500.0	90	-6230	?
Redstone	-	1	Redstone	-	-	1	500.0	90	-6230	?
Redstone MRLV	-	1	Redstone MRLV	-	-	1	500.0	200	-6200	?
SPARTA	-	1	Redstone	-	-	1	500.0	90	-6100	?
SPARTA	-	2	Antares 2	-	-	1	500.0	190	-5500	?
SPARTA	-	3	BE-3A5	-	-	1	500.0	190	-5500	?
Jupiter C	-	1	Redstone	-	-	1	500.0	360	-6200	?
Jupiter C	-	2	Cluster Stage 2	-	-	1	500.0	363	-5500	?
Jupiter C	-	3	Cluster Stage 3	-	-	1	500.0	1000	-4094	?
Jupiter C	JunoI	1	Redstone	-	-	1	500.0	360	-6200	?
Jupiter C	JunoI	2	Cluster Stage 2	-	-	1	500.0	360	-5500	?
Jupiter C	JunoI	3	Cluster Stage 3	-	-	1	500.0	360	-3600	?
Jupiter C	JunoI	4	RTV Motor	-	-	1	500.0	2500	360	?
Hwasong-14	-	1	Hwasong-12 Stage 1	-	-	1	500.0	50	-6370	?
Hwasong-14	-	2	Hwasong-14 Stage 2	-	-	1	500.0	3000	-6370	?
Hwasong-12	-	1	Hwasong-12 Stage 1	-	-	1	500.0	2000	-6370	?
Hwasong-12	A	1	Hwasong-12A Stage 1	-	-	1	500.0	2000	-6370	?
Hwasong-12A	-	1	Hwasong-8 Stage 1	-	-	1	500.0	2000	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Falcon 1	-	1	Falcon 1	-	-	1	500.0	100	-5500	?
Falcon 1	-	2	Falcon 1 St 2	-	-	1	500.0	600	600	?
Falcon 1	-	F	Falcon 1 Fairing	-	-	1	500.0	150	-5000	?
Minuteman 1A	T	1	M55A1	-	-	1	500.0	1	-6378	?
Minuteman 1A	-	1	M55A1	-	-	1	500.0	72	-6249	?
Minuteman 1A	-	2	M56A1	-	-	1	500.0	328	-5630	?
Minuteman 1A	-	3	M57A1	-	-	1	500.0	1100	-3470	?
Minuteman 1B	-	1	M55E1	-	-	1	500.0	72	-6249	?
Minuteman 1B	-	2	M56A1	-	-	1	500.0	328	-5630	?
Minuteman 1B	-	3	M57A1	-	-	1	500.0	1100	-3470	?
Minuteman 2	-	1	M55E1	-	-	1	500.0	75	-6250	?
Minuteman 2	-	2	SR19AJ1	-	-	1	500.0	350	-5600	?
Minuteman 2	-	3	M57A1	-	-	1	500.0	1300	-3500	?
Minotaur II	-	1	M55E1	-	-	1	500.0	75	-6250	?
Minotaur II	-	2	SR19AJ1	-	-	1	500.0	350	-5600	?
Minotaur II	-	3	M57A1	-	-	1	500.0	1300	-3500	?
Minotaur II+	-	1	M55E1	-	-	1	500.0	75	-6250	?
Minotaur II+	-	2	SR19AJ1	-	-	1	500.0	350	-5600	?
Minotaur II+	-	3	SR73AJ1-ATK	-	-	1	500.0	1300	-3500	?
Minuteman 3	-	1	M55E1	-	-	1	500.0	75	-6250	?
Minuteman 3	-	2	SR19AJ1	-	-	1	500.0	350	-5600	?
Minuteman 3	-	3	SR73AJ1	-	-	1	500.0	1200	-3500	?
Minuteman 3	-	4	PBS	-	-	1	500.0	1300	-3500	?
Minuteman 3	-	F	Fairing	-	-	1	500.0	350	-5600	?
Minuteman 3	PRP	1	M55E1-ATK	-	-	1	500.0	75	-6250	?
Minuteman 3	PRP	2	SR19AJ1-ATK	-	-	1	500.0	350	-5600	?
Minuteman 3	PRP	3	SR73AJ1-ATK	-	-	1	500.0	1200	-3500	?
Minuteman 3	PRP	4	PBS	-	-	1	500.0	1300	-3500	?
Minuteman 3	PRP	F	Fairing	-	-	1	500.0	350	-5600	?
Minuteman 1	-	1	M55E1	-	-	1	500.0	50	-6370	?
Minuteman 1	-	2	SR19AJ1	-	d	1	500.0	50	-6370	?
Minuteman 1	-	3	M57A1	-	d	1	500.0	50	-6370	?
HOE	-	1	M55E1	-	-	1	500.0	70	-6370	?
HOE	-	2	M56A1	-	-	1	500.0	200	-6370	?
Minotaur I	-	1	M55E1	-	-	1	500.0	70	-6300	?
Minotaur I	-	2	SR19AJ1	-	-	1	500.0	300	-6120	?
Minotaur I	-	3	Orion 50XL	-	-	1	500.0	700	-4300	?
Minotaur I	-	4	Orion 38	-	-	1	500.0	700	700	?
Minotaur I	-	F	Fairing	-	-	2	500.0	200	-6100	?
Minotaur I Lite	-	1	M55E1	-	-	1	500.0	70	-6300	?
Minotaur I Lite	-	2	SR19AJ1	-	-	1	500.0	300	-6120	?
Minotaur I Lite	-	3	Orion 50XL	-	-	1	500.0	700	-4300	?
Minotaur I Lite	-	F	Fairing	-	-	2	500.0	200	-6100	?
R-5	-	1	R-5	-	-	1	500.0	500	-6200	?
R-5A	-	1	R-5	-	-	1	500.0	500	-6200	?
R-5B	-	1	R-5	-	-	1	500.0	500	-6200	?
R-5M	-	1	R-5	-	-	1	500.0	500	-6200	?
R-5V	-	1	R-5	-	-	1	500.0	500	-6200	?
R-5 VAO	-	1	R-5	-	-	1	500.0	500	-6200	?
R-12	-	1	R-12	-	-	1	500.0	500	-6200	?
R-12U	-	1	R-12	-	-	1	500.0	500	-6200	?
K63	-	1	R-12	-	-	1	500.0	500	-6200	?
K63D	-	1	R-12	-	-	1	500.0	500	-6200	?
Kosmos 63S1	-	1	R-12	-	-	1	500.0	100	-6000	?
Kosmos 63S1	-	2	S1	-	-	1	500.0	200	200	?
Kosmos 63S1	-	F	Fairing	-	-	2	500.0	100	-6000	?
Kosmos 11K63	-	1	R-12	-	-	1	500.0	100	-6000	?
Kosmos 11K63	-	2	S1M	-	-	1	500.0	200	200	?
Kosmos 11K63	-	F	Fairing	-	-	2	500.0	100	-6000	?
R-UNK	-	1	R-UNK	-	-	1	500.0	400	-6378	?
DF-1	-	1	DF-1	-	-	1	500.0	100	-6370	?
DF-2	-	1	DF-2	-	-	1	500.0	200	-6370	?
DF-2A	-	1	DF-2A	-	-	1	500.0	200	-6370	?
A-4	-	1	V-2	-	-	1	500.0	100	-6300	?
A-4b	-	1	V-2	-	-	1	500.0	80	-6300	?
V-2	-	1	V-2	-	-	1	500.0	100	-6260	?
V-2	US	1	V-2	-	-	1	500.0	100	-6260	?
Hermes II	-	1	V-2-Ram	-	-	1	500.0	150	-6370	?
Bumper-WAC	-	1	V-2	-	-	1	500.0	100	-6370	?
Bumper-WAC	-	2	WAC Corporal	-	-	1	500.0	300	-6370	?
R-1	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1 8A11	-	1	R-1	-	-	1	500.0	100	-6280	?
A-1	-	1	A-1	-	-	1	500.0	100	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
R-1A	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1B	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1V	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1D	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1E (A-1)	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1E	-	1	R-1	-	-	1	500.0	100	-6280	?
R-1UK	-	1	R-1	-	-	1	500.0	100	-6280	?
R-2	-	1	R-2	-	-	1	500.0	200	-6250	?
R-2A	-	1	R-2	-	-	1	500.0	200	-6250	?
R-2e	-	1	R-2	-	-	1	500.0	200	-6250	?
R-2R	-	1	R-2	-	-	1	500.0	200	-6250	?
R-31	-	1	R-31 St 1	-	-	1	500.0	40	-6300	?
R-31	-	2	R-31 St 2	-	-	1	500.0	100	-6100	?
R-31	-	3	R-31 BS	-	-	1	500.0	1000	-4000	?
CE-5 SSQ	-	1	CE-5 SSQ	-	-	1	500.0	200	200	?
Zyb	-	1	R-27	-	-	1	500.0	500	-6000	?
Zyb R-27U	-	1	R-27	-	-	1	500.0	500	-6000	?
Zyb R-27K	-	1	R-27	-	-	1	500.0	500	-6000	?
Hwasong-10	-	1	Hwasong 10	-	-	1	500.0	1000	-6100	?
Khorramshahr	-	1	Khorramshahr	-	-	1	500.0	1000	-6100	?
Zoljanah	-	1	Zoljanah	-	-	1	500.0	15	-6100	?
Zoljanah	-	2	Zoljanah	-	-	1	500.0	500	-6100	?
Zoljanah	-	3	Safir Stage 2	-	-	1	500.0	500	500	?
Bukguekseong	-	1	KN-11	-	-	1	500.0	1000	-6100	?
Bukguekseong	-	2	KN-11-2	-	-	1	500.0	1000	-6100	?
Bukguekseong-2	-	1	KN-11	-	-	1	500.0	1000	-6100	?
Bukguekseong-2	-	2	KN-11-2	-	-	1	500.0	1000	-6100	?
Bukguekseong-3	-	1	KN-11	-	-	1	500.0	1000	-6100	?
Bukguekseong-3	-	2	KN-11-2	-	-	1	500.0	1000	-6100	?
MSBS M011	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M011	-	2	Rita I	-	d	1	500.0	50	-6370	?
MSBS M012	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M012	-	2	Rita I	-	-	1	500.0	500	-6000	?
MSBS M013	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M013	-	2	Rita I	-	-	1	500.0	500	-6000	?
MSBS M112	-	1	SEP 901	-	-	1	500.0	50	-6370	?
MSBS M112	-	2	Rita I	-	d	1	500.0	50	-6370	?
MSBS M1	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M1	-	2	Rita I	-	-	1	500.0	500	-5500	?
MSBS M2	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M2	-	2	Rita II	-	-	1	500.0	600	-5500	?
MSBS M20	-	1	SEP 904	-	-	1	500.0	50	-6370	?
MSBS M20	-	2	Rita II	-	-	1	500.0	600	-5300	?
SSBS S112	-	1	SEP 901	-	-	1	500.0	50	-6300	?
SSBS S112	-	2	SEP 903	-	d	1	500.0	50	-6300	?
SSBS S01	-	1	SEP 901	-	-	1	500.0	50	-6300	?
SSBS S01	-	2	SEP 903	-	-	1	500.0	500	-6000	?
SSBS S02	-	1	SEP 902	-	-	1	500.0	100	-6300	?
SSBS S02	-	2	SEP 903	-	-	1	500.0	1000	-6000	?
SSBS S2	-	1	SEP 902	-	-	1	500.0	100	-6300	?
SSBS S2	-	2	SEP 903	-	-	1	500.0	1000	-6000	?
SSBS S3	-	1	SEP 902	-	-	1	500.0	100	-6300	?
SSBS S3	-	2	Rita II	-	-	1	500.0	1000	-6000	?
Spaceship One	-	0	White Knight	-	-	1	500.0	12	-6378	?
Spaceship One	-	1	Spaceship One	-	-	1	500.0	110	-6377	?
Spaceship Two	-	0	White Knight 2	-	-	1	500.0	12	-6378	?
Spaceship Two	-	1	Spaceship Two	-	-	1	500.0	110	-6377	?
RT-15	-	1	8K96A	-	-	1	500.0	100	-6300	?
RT-15	-	2	8K96B	-	-	1	500.0	1000	-5000	?
RT-15M	-	1	8K96A	-	-	1	500.0	100	-6300	?
RT-15M	-	2	8K96B	-	-	1	500.0	1000	-5000	?
Kestrel I	-	1	Kestrel I Stage 1	-	-	1	500.0	20	-6370	?
Kestrel I	-	2	Kestrel I Stage 2	-	-	1	500.0	350	-6370	?
Hapith I	-	1	Kestrel I Stage 1	-	-	1	500.0	20	-6370	?
Hapith I	-	2	Kestrel I Stage 2	-	-	1	500.0	350	-6370	?
ETV	-	0	SB-310	-	-	8	500.0	10	-6370	?
ETV	-	1	M-10	-	-	1	500.0	50	-6300	?
ETV	-	2	LE-3	-	-	1	500.0	150	-6300	?
Mu-1	-	0	SB-310	-	-	8	500.0	10	-6378	?
Mu-1	-	1	M-10	-	-	1	500.0	34	-6370	?
Mu-1	-	2	M-20	-	d	1	500.0	34	-6370	?
Mu-1	-	3	M-30	-	d	1	500.0	34	-6370	?
Mu-1	-	4	M-40	-	d	1	500.0	34	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Mu-1	-	F	Fairing	-	-	2	500.0	34	-6370	?
Mu-3D	-	0	SB-310	-	-	8	500.0	10	-6378	?
Mu-3D	-	1	M-10	-	-	1	500.0	75	-6300	?
Mu-3D	-	2	M-20	-	-	1	500.0	160	-5500	?
Mu-3D	-	3	M-30	-	d	1	500.0	160	-5500	?
Mu-3D	-	4	M-40	-	-	1	500.0	160	-5500	?
Mu-3D	-	F	Fairing	-	-	2	500.0	160	-5500	?
Mu-4S	-	0	SB-310	-	-	8	5624.0	10	-6370	?
Mu-4S	-	1	M-10	-	-	1	44950.0	75	-6300	?
Mu-4S	-	2	M-20	-	-	1	18810.0	280	-5000	?
Mu-4S	-	3	M-30	-	-	1	5376.0	1000	-1670	?
Mu-4S	-	4	M-40	-	-	1	1060.0	1000	1000	?
Mu-4S	-	F	Fairing	-	-	2	1060.0	280	-5000	?
Mu-3C	-	0	SB-310	-	-	8	1060.0	10	-6378	?
Mu-3C	-	1	M-10	-	-	1	1060.0	120	-6150	?
Mu-3C	-	2	M-22TVC	-	-	1	1060.0	290	-5300	?
Mu-3C	-	3	M-3A	-	-	1	1060.0	3000	280	?
Mu-3C	-	F	Fairing	-	-	2	1060.0	290	-5300	?
Mu-3H	-	0	SB-310	-	-	8	1060.0	10	-6378	?
Mu-3H	-	1	M-13	-	-	1	1060.0	120	-6000	?
Mu-3H	-	2	M-22TVC	-	-	1	1060.0	328	-4450	?
Mu-3H	-	3	M-3A	-	-	1	1060.0	800	300	?
Mu-3H	-	4	KM-H	-	-	1	1060.0	3800	800	?
Mu-3H	-	F	Fairing	-	-	2	1060.0	300	-4450	?
Mu-3S	-	0	SB-310	-	-	8	1060.0	10	-6378	?
Mu-3S	-	1	M-13TVC	-	-	1	1060.0	120	-6000	?
Mu-3S	-	2	M-22TVC	-	-	1	1060.0	520	-4900	?
Mu-3S	-	3	M-3A	-	-	1	1060.0	500	500	?
Mu-3S	-	F	Fairing	-	-	2	1060.0	500	-4900	?
Mu-3S-II	-	0	SB-735	-	-	2	1060.0	10	-6378	?
Mu-3S-II	-	1	M-13	-	-	1	1060.0	120	-6000	?
Mu-3S-II	-	2	M-23	-	-	1	1060.0	240	-4900	?
Mu-3S-II	-	3	M-3B	-	-	1	1060.0	400	200	?
Mu-3S-II	-	F	Fairing	-	-	2	1060.0	240	-4900	?
Emeraude VE121	-	1	Emeraude	-	-	1	1060.0	200	-6370	?
Saphir VE231	-	1	Emeraude	-	-	1	1060.0	50	-6300	?
Saphir VE231	-	2	Topaze	-	-	1	1060.0	1000	-5000	?
Diamant A	-	1	Emeraude	-	-	1	1060.0	120	-6260	?
Diamant A	-	2	Topaze	-	-	1	1060.0	530	-5830	?
Diamant A	-	3	P064	-	-	1	1060.0	1800	530	?
Diamant A	-	F	Fairing	-	-	2	1060.0	530	-5830	?
Diamant B	-	1	Amethyste	-	-	1	1060.0	120	-6260	?
Diamant B	-	2	Topaze	-	-	1	1060.0	270	-5800	?
Diamant B	-	3	P068	-	-	1	1060.0	1200	270	?
Diamant B	-	F	Fairing	-	-	2	1060.0	500	-5800	?
Diamant BP.4	-	1	Amethyste	-	-	1	1060.0	120	-6260	?
Diamant BP.4	-	2	Rita I	-	-	1	1060.0	270	-5600	?
Diamant BP.4	-	3	P068	-	-	1	1060.0	1200	270	?
Diamant BP.4	-	F	Fairing	-	-	2	1060.0	500	-5600	?
Polaris AX	-	1	A1P	-	-	1	1060.0	10	-6378	?
Polaris AX	-	2	A1P Stage 2	-	-	1	1060.0	200	-6370	?
Polaris A1	-	1	A1P	-	-	1	1060.0	10	-6378	?
Polaris A1	-	2	A1P Stage 2	-	-	1	1060.0	50	-6370	?
Polaris A2E	-	1	A2E	-	-	1	1060.0	70	-6300	?
Polaris A2E	-	2	A2E Stage 2	-	-	1	1060.0	1000	-6000	?
Polaris A2	-	1	A2P	-	-	1	1060.0	500	-6300	?
Polaris A2	-	2	A2P Stage 2	-	-	1	1060.0	20	-6378	?
Polaris A3	-	1	A3P	-	-	1	1060.0	50	-6370	?
Polaris A3	-	2	X-260	-	-	1	1060.0	1000	-6000	?
Polaris A3	-	F	Fairing	-	-	1	1060.0	50	-6370	?
Polaris A3	A3T	1	A3P	-	-	1	1060.0	50	-6370	?
Polaris A3	A3T	2	X-260	-	-	1	1060.0	1000	-6000	?
Polaris A3	A3T	F	Fairing	-	-	1	1060.0	50	-6370	?
STARS	-	1	A3P	-	-	1	1060.0	20	-6378	?
STARS	-	2	X-260	-	-	1	1060.0	500	-6000	?
STARS	-	3	Orbus 1	-	-	1	1060.0	1000	-5500	?
Alfa	-	1	Alfa	-	-	1	1060.0	50	-6300	?
Squirt	-	1	Squirt St 1	-	-	1	1060.0	1	-6378	?
Squirt	-	2	Squirt St 2	-	-	1	1060.0	1	-6378	?
Sprint ABM	-	1	X-265	-	-	1	1060.0	1	-6378	?
Sprint ABM	-	2	X-271	-	-	1	1060.0	10	-6378	?
HEDI	-	1	X-265	-	-	1	1060.0	1	-6370	?
HEDI	-	2	X-271	-	-	1	1060.0	10	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Kuryer	-	1	15Zh59A	-	-	1	1060.0	10	-6378	?
Kuryer	-	2	15Zh59B	-	-	1	1060.0	100	-6378	?
Kuryer	-	3	15Zh59V	-	-	1	1060.0	1000	-6378	?
LRAShM	-	1	LRAShM St1	-	-	1	1060.0	1	-6378	?
LRAShM	-	2	LRAShM St2	-	-	1	1060.0	100	-6378	?
Shuang Quxian 1	-	1	Hyperbola-1 Stage 1	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	-	2	Hyperbola-1 Stage 2	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	-	3	Hyperbola-1 Stage 3	-	-	1	1060.0	500	-2000	?
Shuang Quxian 1	-	4	Hyperbola-1 Stage 4	-	-	1	1060.0	500	500	?
Shuang Quxian 1	2	1	Hyperbola-1 Stage 1	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	2	2	Hyperbola-1 Stage 2	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	2	3	Hyperbola-1B Stage 3	-	-	1	1060.0	500	-2000	?
Shuang Quxian 1	2	4	Hyperbola-1B Stage 4	-	-	1	1060.0	500	500	?
Shuang Quxian 1	3	1	Hyperbola-1B Stage 1	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	3	2	Hyperbola-1 Stage 2	-	-	1	1060.0	50	-6300	?
Shuang Quxian 1	3	3	Hyperbola-1B Stage 3	-	-	1	1060.0	500	-2000	?
Shuang Quxian 1	3	4	Hyperbola-1B Stage 4	-	-	1	1060.0	500	500	?
Shuang Quxian 1	S	1	SQ-1S	-	-	1	1060.0	100	-6378	?
Gushenxing 1	-	1	GS-1	-	-	1	1060.0	100	-6378	?
Gushenxing 1	-	2	GS-2	-	-	1	1060.0	200	-5000	?
Gushenxing 1	-	3	GS-3	-	-	1	1060.0	500	-2000	?
Gushenxing 1	-	4	Edge	-	-	1	1060.0	500	500	?
Gushenxing 1	1	1	GS-1A	-	-	1	1060.0	100	-6378	?
Gushenxing 1	1	2	GS-2	-	-	1	1060.0	200	-5000	?
Gushenxing 1	1	3	GS-3A	-	-	1	1060.0	500	-2000	?
Gushenxing 1	1	4	Edge	-	-	1	1060.0	500	500	?
Gushenxing 1	S	1	GS-1A	-	-	1	1060.0	100	-6378	?
Gushenxing 1	S	2	GS-2	-	-	1	1060.0	200	-5000	?
Gushenxing 1	S	3	GS-3A	-	-	1	1060.0	500	-2000	?
Gushenxing 1	S	4	Edge	-	-	1	1060.0	500	500	?
Kairos	-	1	Kairos Stage 1	-	-	1	1060.0	50	-6300	?
Kairos	-	2	Kairos Stage 2	-	-	1	1060.0	200	-6300	?
Kairos	-	3	Kairos Stage 3	-	-	1	1060.0	500	-5000	?
Kairos	-	4	Kairos PBS	-	-	1	1060.0	500	500	?
KT-1	-	1	DF-21	-	-	1	1060.0	50	-6300	?
KT-1	-	2	DF-21 St2	-	-	1	1060.0	200	-5000	?
KT-1	-	3	KT-1 St3	-	-	1	1060.0	200	200	?
KT-1	-	4	KT-1 St4	-	-	1	1060.0	200	200	?
Kuaizhou	-	1	KZ-1A St1	-	-	1	1060.0	50	-6300	?
Kuaizhou	-	2	DF-21 St2	-	-	1	1060.0	200	-5000	?
Kuaizhou	-	3	KZ-1 St3	-	-	1	1060.0	200	200	?
Kuaizhou	-	4	KZ-1 St4	-	-	1	1060.0	200	200	?
Kuaizhou-1A	-	1	KZ-1A St1	-	-	1	1060.0	50	-6300	?
Kuaizhou-1A	-	2	DF-21 St2	-	-	1	1060.0	200	-5000	?
Kuaizhou-1A	-	3	KZ-1 St3	-	-	1	1060.0	200	200	?
Kuaizhou-1A	-	4	KZ-1 St4	-	-	1	1060.0	200	200	?
Kuaizhou-1A	E	1	KZ-1A St1	-	-	1	1060.0	50	-6300	?
Kuaizhou-1A	E	2	DF-21 St2	-	-	1	1060.0	200	-5000	?
Kuaizhou-1A	E	3	KZ-1AE St3	-	-	1	1060.0	200	200	?
Kuaizhou-1A	E	4	KZ-1AE St4	-	-	1	1060.0	200	200	?
JL-1	-	1	DF-21	-	-	1	1060.0	100	-6300	?
JL-1	-	2	DF-21 St2	-	-	1	1060.0	500	-6300	?
DF-21	-	1	DF-21	-	-	1	1060.0	100	-6300	?
DF-21	-	2	DF-21 St2	-	-	1	1060.0	1000	-5000	?
DF-26	-	1	DF-26	-	-	1	1060.0	200	-6378	?
DF-26	-	2	DF-26	-	-	1	1060.0	200	-6378	?
DF-27	-	1	DF-27	-	-	1	1060.0	200	-6378	?
DF-27	-	2	DF-27	-	-	1	1060.0	200	-6378	?
Zhuque-1	-	1	DF-26	-	-	1	1060.0	200	-6378	?
Zhuque-1	-	2	DF-26	-	-	1	1060.0	200	-6378	?
Zhuque-1	-	3	ZQ-1 Stage 3	-	-	1	1060.0	200	-6378	?
Shaheen 2	-	1	Shaheen 2 St 1	-	-	1	1060.0	80	-6370	?
Shaheen 2	-	2	Shaheen St 2	-	-	1	1060.0	300	-6300	?
Shaheen 3	-	1	Shaheen 2 St 1	-	-	1	1060.0	80	-6370	?
Shaheen 3	-	2	Shaheen 3 St 2	-	-	1	1060.0	300	-6300	?
Ababeel	-	1	DF-21	-	-	1	1060.0	80	-6370	?
Ababeel	-	2	Shaheen 3 St 2	-	-	1	1060.0	300	-6300	?
Ababeel	-	3	Ababeel St 3	-	-	1	1060.0	300	-6300	?
Jericho II	-	1	Jericho II	-	-	1	1060.0	300	-6370	?
Jericho III	-	1	Jericho IIIA1	-	-	1	1060.0	100	-6370	?
Jericho III	-	2	Jericho IIIA2	-	-	1	1060.0	300	-6370	?
Shavit	-	1	ATSM-9	-	-	1	1060.0	100	-6370	?
Shavit	-	2	ATSM-9	-	-	1	1060.0	250	-5740	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Shavit	-	3	AUS-51	-	-	1	1060.0	700	250	?
Shavit	-	F	Fairing	-	-	2	1060.0	250	-5740	?
Shavit 1	-	1	Shavit 1	-	-	1	1060.0	100	-6370	?
Shavit 1	-	2	ATSM-9	-	-	1	1060.0	250	-5740	?
Shavit 1	-	3	AUS-51	-	-	1	1060.0	700	250	?
Shavit 1	-	F	Fairing	-	-	2	1060.0	250	-5740	?
Shavit 2	-	1	Shavit 1	-	-	1	1060.0	100	-6370	?
Shavit 2	-	2	Shavit 1	-	-	1	1060.0	250	-5740	?
Shavit 2	-	3	AUS-51	-	-	1	1060.0	700	250	?
Shavit 2	-	F	Fairing	-	-	2	1060.0	250	-5740	?
Arrow 1	-	1	IAI Arrow-1	-	-	1	1060.0	20	-6378	?
RSA-3	-	1	RSA-3-1	-	-	1	1060.0	40	-6370	?
RSA-3	-	2	RSA-3-2	-	-	1	1060.0	100	-6300	?
RSA-3	-	3	RSA-3-3	-	d	1	1060.0	300	-6300	?
RSA-3	d	1	RSA-3-1	-	-	1	1060.0	100	-6300	?
RSA-3	d	2	RSA-3-2	-	d	1	1060.0	100	-6300	?
RSA-3	d	3	RSA-3-3	-	d	1	1060.0	100	-6300	?
Astra Rocket 3.1	-	1	Astra Stage 1	-	-	1	1060.0	100	-6370	?
Astra Rocket 3.1	-	2	Astra Stage 2	-	-	1	1060.0	300	300	?
Astra Rocket 3.2	-	1	Astra Stage 1	-	-	1	1060.0	100	-6370	?
Astra Rocket 3.2	-	2	Astra Stage 2	-	-	1	1060.0	300	300	?
Astra Rocket 3.3	-	1	Astra 3.3 Stage 1	-	-	1	1060.0	100	-6370	?
Astra Rocket 3.3	-	2	Astra 3.3 Stage 2	-	-	1	1060.0	300	300	?
Storm-2	-	1	SR19AJ1	-	-	1	1060.0	100	-6350	?
SR19	-	1	SR19AJ1	-	-	1	1060.0	100	-6300	?
AltAir	-	1	SR19AJ1	-	-	1	1060.0	100	-6300	?
eMRBM	-	0	C-17	-	-	1	1060.0	10	-6378	?
eMRBM	-	1	SR19	-	-	1	1060.0	70	-6100	?
eMRBM	-	2	SR19	-	-	1	1060.0	300	-5500	?
MRBM Target	-	1	SR19	-	-	1	1060.0	70	-6100	?
MRBM Target	-	2	SR19	-	-	1	1060.0	300	-5500	?
MRBM Target	1	1	eSR19	-	-	1	1060.0	70	-6100	?
MRBM Target	1	2	eSR19	-	-	1	1060.0	300	-5500	?
eMRBM-T1	-	0	MLRS	-	-	2	1060.0	5	-6100	?
eMRBM-T1	-	1	SR19	-	-	1	1060.0	70	-6100	?
eMRBM-T1	-	2	SR19	-	-	1	1060.0	300	-5500	?
Janus	-	0	MLRS	-	-	2	1060.0	5	-6100	?
Janus	-	1	SR19	-	-	1	1060.0	70	-6370	?
Janus	-	2	SR19	-	-	1	1060.0	300	-6370	?
MRBM-T1	-	0	C-17	-	-	1	1060.0	10	-6378	?
MRBM-T1	-	1	SR19	-	-	1	1060.0	5	-6100	?
MRBM-T1	-	2	SR19	-	-	1	1060.0	300	-6370	?
MRBM-T2	-	0	C-17	-	-	1	1060.0	10	-6378	?
MRBM-T2	-	1	SR19	-	-	1	1060.0	5	-6100	?
MRBM-T2	-	2	SR19	-	-	1	1060.0	300	-6370	?
MRBM-T3	-	1	SR19	-	-	1	1060.0	5	-6100	?
MRBM-T3	-	2	SR73AJ1-ATK	-	-	1	1060.0	70	-6100	?
SR19/SR19	-	0	MLRS	-	-	2	1060.0	5	-6100	?
SR19/SR19	-	1	SR19	-	-	1	1060.0	70	-6100	?
SR19/SR19	-	2	SR19	-	-	1	1060.0	300	-5500	?
LRALT	-	0	C-17	-	-	1	1060.0	10	-6378	?
LRALT	-	1	SR19	-	-	1	1060.0	50	-6300	?
LRALT	-	2	SR19	-	-	1	1060.0	300	-6300	?
E-LRALT	-	0	C-17	-	-	1	1060.0	10	-6378	?
E-LRALT	-	1	SR19	-	-	1	1060.0	50	-6300	?
E-LRALT	-	2	SR19	-	-	1	1060.0	300	-6300	?
E-LRALT	-	3	Orbus 1A	-	-	1	1060.0	300	-6300	?
SRALT	-	0	C-17	-	-	1	1060.0	10	-6378	?
SRALT	-	1	SR19	-	-	1	1060.0	50	-6300	?
Hera	-	1	SR19AJ1	-	-	1	1060.0	70	-6370	?
Hera	-	2	M57A1	-	-	1	1060.0	300	-6370	?
Juno	-	1	SR19AJ1	-	-	1	1060.0	70	-6370	?
Juno	-	2	M57A1	-	-	1	1060.0	300	-6370	?
Minuteman 2 PLV	-	1	SR19AJ1	-	-	1	1060.0	70	-6200	?
Minuteman 2 PLV	-	2	M57A1	-	-	1	1060.0	230	-5500	?
R-21	-	1	R-21	-	-	1	1060.0	300	-6200	?
R-13	-	1	R-13	-	-	1	1060.0	150	-6300	?
K-4	-	1	K-4 Booster	-	-	1	1060.0	5	-6378	?
K-4	-	2	K-4 Stage 2	-	-	1	1060.0	200	-6300	?
PDV Mk II	-	1	PDV-II Stage 1	-	-	1	1060.0	30	-6300	?
PDV Mk II	-	2	PDV-II Stage 2	-	-	1	1060.0	300	-6300	?
PDV Mk II	-	3	PDV-II KV	-	-	1	1060.0	300	-6300	?
V-825	-	0	V-825 Booster	-	-	1	1060.0	20	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
V-825	-	1	V-825	-	-	1	1060.0	180	-6300	?
Qaem-100	-	1	Qaem-100 St 1	-	-	1	1060.0	50	-6378	?
Qaem-100	-	2	Qaem-100 St 2	-	-	1	1060.0	50	-6378	?
Qaem-100	-	3	Qaem-100 St 3	-	-	1	1060.0	50	-6378	?
Sejjil	-	1	Sejjil	-	-	1	1060.0	50	-6300	?
Sejjil	-	2	Sejjil Stage 2	-	-	1	1060.0	200	-6300	?
Sejjil-2	-	1	Sejjil	-	-	1	1060.0	50	-6300	?
Sejjil-2	-	2	Sejjil Stage 2	-	-	1	1060.0	200	-6300	?
Ashura	-	1	Sejjil	-	-	1	1060.0	50	-6300	?
Ashura	-	2	Sejjil Stage 2	-	-	1	1060.0	200	-6300	?
Hwasong-7	-	1	Hwasong-7	-	-	1	1060.0	150	-6300	?
Shahab 3	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Salman	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Emad	-	1	Emad	-	-	1	1060.0	150	-6300	?
Ghadr 1	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Ghadr-110	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Ghadr F	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Toufan	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Safir	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Safir	-	2	Safir Stage 2	-	-	1	1060.0	250	-6300	?
Qased	-	1	Shahab 3	-	-	1	1060.0	150	-6300	?
Qased	-	2	Salman	-	-	1	1060.0	150	-2000	?
Qased	-	3	Qased-S3	-	-	1	1060.0	450	450	?
Paektusan 1	-	1	Taepo Dong 1	-	-	1	1060.0	70	-6100	?
Paektusan 1	-	2	Taepo Dong 1 Stage 2	-	-	1	1060.0	220	-5000	?
Paektusan 1	-	3	Taepo Dong 1 Stage 3	-	-	1	1060.0	220	-5000	?
Ghauri	-	1	Ghauri	-	-	1	1060.0	150	-6370	?
Scud D	-	1	Scud D	-	-	1	1060.0	100	-6200	?
AMROC IRR	-	1	AMROC IRR	-	-	1	1060.0	1	-6378	?
GBI	-	1	Orion 50SG	-	-	1	1060.0	70	-6000	?
GBI	-	2	Orion 50	-	-	1	1060.0	300	-5000	?
GBI	-	3	Orion 38	-	-	1	1060.0	1800	-4500	?
GBI	2	1	Orion 50SG	-	-	1	1060.0	70	-6000	?
GBI	2	2	Orion 50	-	-	1	1060.0	300	-5000	?
ALV	-	1	Orion 50S	-	-	1	1060.0	33	-6378	?
ALV	-	2	Star 37FMV	-	-	1	1060.0	200	-6378	?
Pegasus	-	0	NB-52	-	-	1	1060.0	14	-6378	?
Pegasus	-	1	Orion 50S	-	-	1	1060.0	90	-6100	?
Pegasus	-	2	Orion 50	-	-	1	1060.0	740	-4500	?
Pegasus	-	3	Orion 38	-	-	1	1060.0	740	740	?
Pegasus	-	F	Fairing	-	-	2	1060.0	130	-6000	?
Pegasus/HAPS	-	0	NB-52	-	-	1	1060.0	14	-6378	?
Pegasus/HAPS	-	1	Orion 50S	-	-	1	1060.0	70	-6100	?
Pegasus/HAPS	-	2	Orion 50	-	-	1	1060.0	120	-4400	?
Pegasus/HAPS	-	3	Orion 38	-	-	1	1060.0	700	120	?
Pegasus/HAPS	-	4	HAPS	-	-	1	1060.0	700	700	?
Pegasus/HAPS	-	F	Fairing	-	-	2	1060.0	140	-4400	?
Pegasus H	-	0	L-1011	-	-	1	1060.0	14	-6378	?
Pegasus H	-	1	Orion 50S	-	-	1	1060.0	90	-6100	?
Pegasus H	-	2	Orion 50	-	-	1	1060.0	740	-4500	?
Pegasus H	-	3	Orion 38	-	-	1	1060.0	740	740	?
Pegasus H	-	F	Fairing	-	-	2	1060.0	130	-6000	?
Pegasus XL	-	0	L-1011	-	-	1	1060.0	14	-6378	?
Pegasus XL	-	1	Pegasus XL Stage 1	-	-	1	1060.0	90	-6100	?
Pegasus XL	-	2	Orion 50XL	-	-	1	1060.0	700	-4500	?
Pegasus XL	-	3	Orion 38	-	-	1	1060.0	700	700	?
Pegasus XL	-	F	Fairing	-	-	2	1060.0	140	-5950	?
Pegasus XL/HAPS	-	0	L-1011	-	-	1	1060.0	14	-6378	?
Pegasus XL/HAPS	-	1	Pegasus XL Stage 1	-	-	1	1060.0	70	-6100	?
Pegasus XL/HAPS	-	2	Orion 50XL	-	-	1	1060.0	120	-4400	?
Pegasus XL/HAPS	-	3	Orion 38	-	-	1	1060.0	700	120	?
Pegasus XL/HAPS	-	4	HAPS	-	-	1	1060.0	700	700	?
Pegasus XL/HAPS	-	F	Fairing	-	-	2	1060.0	140	-4400	?
IRBM-T1	-	1	Orion 50SXLT	-	-	1	1060.0	70	-6000	?
IRBM-T1	-	2	Orion 50XLT	-	-	1	1060.0	300	-5000	?
IRBM-T2	-	1	Orion 50SXLT	-	-	1	1060.0	70	-6000	?
IRBM-T2	-	2	Orion 50XLT	-	-	1	1060.0	300	-5000	?
Hyper X	-	0	NB-52	-	-	1	1060.0	10	-6378	?
Hyper X	-	1	Orion 50S	-	-	1	1060.0	33	-6378	?
Al Kahir	-	1	AlKahir	-	-	1	1060.0	50	-6378	?
LDSD	-	0	Balloon	-	-	1	1060.0	18	-6378	?
LDSD	-	1	Star 48B	-	-	1	1060.0	55	-6378	?
Hyunmoo-1	-	1	Hyunmoo Booster	-	-	1	1060.0	2	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Hyunmoo-1	-	2	TX-30	-	-	1	1060.0	20	-6378	?
Hyunmoo-2A	-	1	Hyunmoo-2A	-	-	1	1060.0	100	-6378	?
Hyunmoo-2B	-	1	Hyunmoo-2B	-	-	1	1060.0	100	-6378	?
Hyunmoo-2C	-	1	Hyunmoo-2C	-	-	1	1060.0	100	-6378	?
Hyunmoo-4	-	1	Hyunmoo-4	-	-	1	1060.0	100	-6378	?
Electron	-	1	Electron Stage 1	-	-	1	1060.0	50	-6370	?
Electron	-	2	Electron Stage 2	-	-	1	1060.0	200	200	?
Electron	-	3	Electron Stage 3	-	-	1	1060.0	200	200	?
Electron	L	1	Electron Stage 1	-	-	1	1060.0	50	-6370	?
Electron	L	2	Electron Stage 2	-	-	1	1060.0	200	200	?
Electron	L	3	Photon Lunar	-	-	1	1060.0	200	200	?
HASTE	-	1	Electron Stage 1	-	-	1	1060.0	50	-6370	?
HASTE	-	2	Electron Stage 2	-	-	1	1060.0	200	200	?
HASTE	-	3	Electron Stage 3	-	-	1	1060.0	200	200	?
Jielong-1	-	1	JL-1 Stage 1	-	-	1	1060.0	40	-6378	?
Jielong-1	-	2	JL-1 Stage 2	-	-	1	1060.0	200	-6000	?
Jielong-1	-	3	JL-1 Stage 3	-	-	1	1060.0	200	-1000	?
Jielong-1	-	4	JL-1 Stage 4	-	-	1	1060.0	200	200	?
DF-16	-	1	DF-16	-	-	1	1060.0	300	-6378	?
DF-17	-	1	DF-16	-	-	1	1060.0	300	-6378	?
Hermes A-3B	-	1	Hermes A-3B	-	-	1	1060.0	35	-6370	?
SICBM	-	1	SICBM	-	-	1	1060.0	70	-6000	?
SICBM	-	2	SICBM St 2	-	-	1	1060.0	300	-5500	?
SICBM	-	3	SICBM St 3	-	-	1	1060.0	1000	-4000	?
SICBM	-	4	SICBM PBS	-	-	1	1060.0	1000	-4000	?
Super Strypi	-	1	LEO-46	-	-	1	1060.0	10	-6300	?
Super Strypi	-	2	LEO-7	-	-	1	1060.0	300	-6300	?
Super Strypi	-	3	LEO-1	-	-	1	1060.0	300	300	?
Aries	-	1	M56A1	-	-	1	1060.0	300	-6350	?
Aries	-	F	Fairing	-	-	1	1060.0	300	-6350	?
M56A1	-	1	M56A1	-	-	1	1060.0	300	-6350	?
M56A1	-	F	Fairing	-	-	1	1060.0	300	-6350	?
ERIS	-	1	M56A1	-	-	1	1060.0	300	-6100	?
ERIS	-	2	M57A1	-	-	1	1060.0	300	-6100	?
Viking Type 9	-	1	Viking Type 9	-	-	1	1060.0	200	-6300	?
Vanguard	-	1	Vanguard	-	-	1	1060.0	165	-6000	?
Vanguard	-	2	AJ10	-	-	1	1060.0	650	-5600	?
Vanguard	-	3	GCR 33KS2800	-	-	1	1060.0	4000	650	?
Vanguard	-	F	Fairing	-	-	1	1060.0	170	-6000	?
Vanguard	X-248	1	Vanguard	-	-	1	1060.0	165	-6000	?
Vanguard	X-248	2	AJ10	-	-	1	1060.0	650	-5600	?
Vanguard	X-248	3	X-248	-	-	1	1060.0	4000	650	?
Vanguard	X-248	F	Fairing	-	-	1	1060.0	170	-6000	?
Scout II TV	-	1	Zefiro	-	-	1	1060.0	1	-6378	?
Scout D-1	-	1	Algol 3A	-	-	1	1060.0	83	-6317	?
Scout D-1	-	2	Castor 2A	-	-	1	1060.0	280	-5925	?
Scout D-1	-	3	Antares 2	-	-	1	1060.0	275	-4435	?
Scout D-1	-	4	Star 20	-	-	1	1060.0	1000	275	?
Scout D-1	-	F	Fairing	-	-	2	1060.0	280	-5925	?
Scout D-1	F	1	Algol 3A	-	-	1	1060.0	83	-6317	?
Scout D-1	F	2	Castor 2A	-	-	1	1060.0	280	-5925	?
Scout D-1	F	3	Antares 2	-	-	1	1060.0	275	-5535	?
Scout D-1	F	4	FW4S	-	-	1	1060.0	1000	275	?
Scout D-1	F	F	Fairing	-	-	2	1060.0	280	-5925	?
Scout E-1	-	1	Algol 3A	-	-	1	1060.0	70	-6300	?
Scout E-1	-	2	Castor 2A	-	-	1	1060.0	280	-6100	?
Scout E-1	-	3	Antares 2	-	-	1	1060.0	340	-5000	?
Scout E-1	-	4	FW4S	-	-	1	1060.0	800	340	?
Scout E-1	-	5	BE-3	-	-	1	1060.0	800	340	?
Scout E-1	-	F	Fairing	-	-	2	1060.0	280	-6100	?
Scout F-1	-	1	Algol 3A	-	-	1	1060.0	70	-6300	?
Scout F-1	-	2	Castor 2A	-	-	1	1060.0	280	-6100	?
Scout F-1	-	3	Antares 2B	-	-	1	1060.0	350	-4330	?
Scout F-1	-	4	Star 20	-	-	1	1060.0	350	350	?
Scout F-1	-	F	Fairing	-	-	2	1060.0	280	-6100	?
Scout G-1	-	1	Algol 3A	-	-	1	1060.0	70	-6300	?
Scout G-1	-	2	Castor 2A	-	-	1	1060.0	250	-6200	?
Scout G-1	-	3	Antares 3	-	-	1	1060.0	370	-5000	?
Scout G-1	-	4	Star 20	-	-	1	1060.0	1000	1000	?
Scout G-1	-	F	Fairing	-	-	2	1060.0	250	-6200	?
TR-1	-	1	TR-1	-	-	1	1060.0	80	-6370	?
TR-1A	-	1	TR-1A	-	-	1	31616.0	280	-6370	?
Prithvi	-	1	Prithvi	-	-	1	31616.0	100	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Prithvi 2	-	1	Prithvi	-	-	1	31616.0	100	-6370	?
PDV Target	-	1	Prithvi	-	-	1	31616.0	100	-6370	?
PDV Target	-	2	PDV Target St2	-	-	1	31616.0	100	-6370	?
PDV	-	1	Prithvi	-	-	1	31616.0	100	-6370	?
Dhanush	-	1	Prithvi	-	-	1	31616.0	50	-6370	?
Spartan ABM	-	1	TX-500	-	-	1	31616.0	10	-6378	?
Spartan ABM	-	2	TX-454	-	-	1	31616.0	30	-6370	?
Spartan ABM	-	3	TX-239	-	-	1	31616.0	100	-6370	?
Nike Zeus	-	1	TX-135	-	-	1	31616.0	15	-6370	?
Nike Zeus	-	2	TX-238	-	-	1	31616.0	150	-6350	?
Nike Zeus	3	1	TX-135	-	-	1	31616.0	15	-6370	?
Nike Zeus	3	2	TX-238	-	-	1	31616.0	150	-6350	?
Nike Zeus	3	3	TX-239	-	-	1	31616.0	200	-6350	?
Nike Zeus DM-15S	-	1	TX-135	-	-	1	31616.0	15	-6370	?
Nike Zeus DM-15S	-	2	TX-238	-	-	1	31616.0	150	-6350	?
Nike Zeus DM-15S	-	3	TX-239	-	-	1	31616.0	200	-6350	?
Dolphin	-	1	Dolphin	-	-	1	31616.0	0	-6378	?
Nike Hercules 1810	-	1	Hercules Booster	-	-	1	31616.0	2	-6378	?
Nike Hercules 1810	-	2	Ajax Cluster 1810	-	-	1	31616.0	20	-6378	?
Nike Hercules R&D	-	1	Hercules Booster	-	-	1	31616.0	2	-6378	?
Nike Hercules R&D	-	2	Ajax Cluster	-	-	1	31616.0	20	-6378	?
Nike Hercules	-	1	Hercules Booster	-	-	1	31616.0	2	-6378	?
Nike Hercules	-	2	TX-30	-	-	1	31616.0	20	-6378	?
Nike J	-	1	Hercules Booster	-	-	1	31616.0	2	-6378	?
Nike J	-	2	TX-30	-	-	1	31616.0	20	-6378	?
Paekkom	-	1	Hercules Booster	-	-	1	31616.0	2	-6378	?
Paekkom	-	2	TX-30	-	-	1	31616.0	20	-6378	?
Hermes A-3A	-	1	Hermes A-3A	-	-	1	31616.0	30	-6370	?
Blue Scout I	-	1	Algol 1	-	-	1	31616.0	70	-6350	?
Blue Scout I	-	2	Castor	-	-	1	31616.0	270	-6350	?
Blue Scout I	-	3	Antares	-	-	1	31616.0	1300	-6168	?
Blue Scout I	-	F	Fairing	-	-	2	31616.0	270	-6350	?
Blue Scout II	-	1	Algol 1	-	-	1	31616.0	70	-6350	?
Blue Scout II	-	2	Castor	-	-	1	31616.0	170	-6340	?
Blue Scout II	-	3	Antares	-	-	1	31616.0	900	-6200	?
Blue Scout II	-	4	Altair	-	-	1	31616.0	2500	-5000	?
Blue Scout II	-	F	Fairing	-	-	2	31616.0	170	-6340	?
Scout X	-	1	Algol 1A	-	-	1	31616.0	48	-6370	?
Scout X	-	2	Castor	-	d	1	31616.0	48	-6370	?
Scout X	-	3	Antares	-	-	1	31616.0	48	-6370	?
Scout X	-	4	Altair	-	d	1	31616.0	48	-6370	?
Scout X-1	-	1	Algol 1B	-	-	1	31616.0	77	-6353	?
Scout X-1	-	2	Castor	-	-	1	31616.0	433	-6216	?
Scout X-1	-	3	Antares	-	-	1	31616.0	640	-5050	?
Scout X-1	-	4	Altair	-	-	1	31616.0	200	200	?
Scout X-1	-	F	Fairing	-	-	2	31616.0	433	-6216	?
Scout X-1A	-	1	Algol 1B	-	-	1	31616.0	77	-6300	?
Scout X-1A	-	2	Castor	-	-	1	31616.0	213	-6200	?
Scout X-1A	-	3	Antares	-	-	1	31616.0	214	-5000	?
Scout X-1A	-	4	Altair	-	-	1	31616.0	349	-4198	?
Scout X-1A	-	5	Cetus	-	-	1	31616.0	1084	-3052	?
Scout X-1A	-	F	Fairing	-	-	2	31616.0	214	-5000	?
Scout X-2	1C	1	Algol 1C	-	-	1	31616.0	75	-6300	?
Scout X-2	1C	2	Castor	-	-	1	31616.0	280	-6200	?
Scout X-2	1C	3	Antares 2	-	-	1	31616.0	1400	-5800	?
Scout X-2	1C	4	Altair	-	-	1	31616.0	7233	-4400	?
Scout X-2	1C	F	Fairing	-	-	2	31616.0	280	-6200	?
Scout X-2	-	1	Algol 1D	-	-	1	31616.0	75	-6350	?
Scout X-2	-	2	Castor	-	-	1	31616.0	400	-6200	?
Scout X-2	-	3	Antares 2	-	-	1	31616.0	900	-5900	?
Scout X-2	-	4	Altair	-	-	1	31616.0	900	900	?
Scout X-2	-	F	Fairing	-	-	2	31616.0	400	-6200	?
Scout X-2B	-	1	Algol 1D	-	-	1	31616.0	75	-6300	?
Scout X-2B	-	2	Castor	-	-	1	31616.0	280	-6200	?
Scout X-2B	-	3	Antares 2	-	-	1	31616.0	730	-5000	?
Scout X-2B	-	4	Altair 2	-	-	1	31616.0	730	-5000	?
Scout X-2B	-	F	Fairing	-	-	2	31616.0	280	-6200	?
Scout X-2M	-	1	Algol 1D	-	-	1	31616.0	75	-6300	?
Scout X-2M	-	2	Castor	-	-	1	31616.0	280	-6200	?
Scout X-2M	-	3	Antares 2	-	-	1	31616.0	700	-5000	?
Scout X-2M	-	4	MG-18	-	-	1	31616.0	700	700	?
Scout X-2M	-	F	Fairing	-	-	2	31616.0	280	-6200	?
Scout X-3	-	1	Algol 2A	-	-	1	31616.0	60	-6330	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Scout X-3	-	2	Castor	-	-	1	31616.0	220	-6030	?
Scout X-3	-	3	Antares 2	-	-	1	31616.0	740	-4500	?
Scout X-3	-	4	Altair	-	-	1	31616.0	1100	740	?
Scout X-3	-	F	Fairing	-	-	2	31616.0	220	-6030	?
Scout X-3M	-	1	Algol 2A	-	-	1	31616.0	75	-6300	?
Scout X-3M	-	2	Castor	-	-	1	31616.0	280	-6200	?
Scout X-3M	-	3	Antares 2	-	-	1	31616.0	700	-5000	?
Scout X-3M	-	4	MG-18	-	-	1	31616.0	700	700	?
Scout X-3M	-	F	Fairing	-	-	2	31616.0	280	-6200	?
Scout X-3A	-	1	Algol 2A	-	-	1	31616.0	60	-6330	?
Scout X-3A	-	2	Castor	-	-	1	31616.0	220	-6030	?
Scout X-3A	-	3	Antares 2	-	-	1	31616.0	220	-6030	?
Scout X-3A	-	4	Altair	-	-	1	31616.0	220	-6030	?
Scout X-3A	-	5	Cetus	-	-	1	31616.0	7000	-6000	?
Scout X-3A	-	F	Fairing	-	-	2	31616.0	220	-6030	?
Scout X-3C	-	1	Algol 2A	-	-	1	31616.0	60	-6330	?
Scout X-3C	-	2	Castor	-	-	1	31616.0	136	-6000	?
Scout X-3C	-	3	Antares 2	-	-	1	31616.0	183	-3620	?
Scout X-3C	-	F	Fairing	-	-	2	31616.0	140	-6000	?
Scout X-4	-	1	Algol 2A	-	-	1	31616.0	77	-6319	?
Scout X-4	-	2	Castor	-	-	1	31616.0	280	-6006	?
Scout X-4	-	3	Antares 2	-	-	1	31616.0	1000	-4870	?
Scout X-4	-	4	Altair 2	-	-	1	31616.0	1000	1000	?
Scout X-4	-	F	Fairing	-	-	2	31616.0	280	-6006	?
Scout X-4A	-	1	Algol 2A	-	-	1	31616.0	70	-6300	?
Scout X-4A	-	2	Castor	-	-	1	31616.0	175	-6000	?
Scout X-4A	-	3	Antares 2	-	-	1	31616.0	175	-6000	?
Scout X-4A	-	4	Altair 2	-	-	1	31616.0	175	-6000	?
Scout X-4A	-	5	Cetus	-	-	1	31616.0	1709	-414	?
Scout X-4A	-	F	Fairing	-	-	2	31616.0	175	-6000	?
Scout X-5C	-	1	Algol 2B	-	-	1	31616.0	70	-6300	?
Scout X-5C	-	2	Castor 2	-	-	1	31616.0	170	-6000	?
Scout X-5C	-	3	Antares 2	-	-	1	31616.0	664	-3866	?
Scout A	-	1	Algol 2A	-	-	1	31616.0	70	-6300	?
Scout A	-	2	Castor 2A	-	-	1	31616.0	280	-6000	?
Scout A	-	3	Antares 2	-	-	1	31616.0	1000	-5000	?
Scout A	-	4	Altair 2	-	-	1	31616.0	1000	1000	?
Scout A	-	F	Fairing	-	-	2	31616.0	280	-6000	?
Scout A-1	-	1	Algol 2C	-	-	1	31616.0	70	-6300	?
Scout A-1	-	2	Castor 2A	-	-	1	31616.0	280	-6000	?
Scout A-1	-	3	Antares 2	-	-	1	31616.0	1000	-5000	?
Scout A-1	-	4	Altair 2	-	-	1	31616.0	1000	1000	?
Scout A-1	-	F	Fairing	-	-	2	31616.0	280	-6000	?
Scout B	-	1	Algol 2B	-	-	1	31616.0	70	-6300	?
Scout B	-	2	Castor 2A	-	-	1	31616.0	280	-6000	?
Scout B	-	3	Antares 2	-	-	1	31616.0	1000	-5000	?
Scout B	-	4	FW4S	-	-	1	31616.0	1000	1000	?
Scout B	-	F	Fairing	-	-	2	31616.0	280	-6000	?
Scout B	2A	1	Algol 2A	-	-	1	31616.0	70	-6300	?
Scout B	2A	2	Castor 2A	-	-	1	31616.0	280	-6100	?
Scout B	2A	3	Antares 2	-	-	1	31616.0	500	-5000	?
Scout B	2A	4	FW4S	-	-	1	31616.0	500	500	?
Scout B	2A	F	Fairing	-	-	2	31616.0	280	-6100	?
Scout B-1	F	1	Algol 2C	-	-	1	31616.0	70	-6300	?
Scout B-1	F	2	Castor 2A	-	-	1	31616.0	280	-6100	?
Scout B-1	F	3	Antares 2	-	-	1	31616.0	500	-5000	?
Scout B-1	F	4	FW4S	-	-	1	31616.0	500	500	?
Scout B-1	F	F	Fairing	-	-	2	31616.0	280	-6100	?
Scout B-1	-	1	Algol 2C	-	-	1	31616.0	70	-6300	?
Scout B-1	-	2	Castor 2A	-	-	1	31616.0	280	-6100	?
Scout B-1	-	3	Antares 2	-	-	1	31616.0	500	-5000	?
Scout B-1	-	4	Star 20	-	-	1	31616.0	500	500	?
Scout B-1	-	F	Fairing	-	-	2	31616.0	280	-6100	?
Athena H	-	0	Recruit	-	-	4	31616.0	1	-6378	?
Athena H	-	1	Castor 4	-	-	1	31616.0	60	-6300	?
Athena H	-	2	Antares 2	-	-	1	31616.0	200	-6250	?
Athena H	-	3	Alcor IA	-	-	1	31616.0	2000	-4000	?
Prospector	-	1	Castor 4A	-	-	1	31616.0	1	-6378	?
Strypi XIIR	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi XIIR	-	1	Castor	-	-	1	31616.0	50	-6370	?
Strypi XIIR	-	2	Orbus 1	-	-	1	31616.0	100	-6370	?
Castor 4A	-	1	Castor 4A	-	-	1	31616.0	500	-6300	?
Maxus	-	1	Castor 4B	-	-	1	31616.0	700	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Castor 4B	-	1	Castor 4B	-	-	1	31616.0	300	-6370	?
MRT	-	1	Castor 4B	-	-	1	31616.0	300	-6370	?
Castor-M57A1	-	1	Castor 4B	-	-	1	31616.0	100	-6370	?
Castor-M57A1	-	2	M57A1	-	-	1	31616.0	1060	-6300	?
Conestoga 1620	-	1	Castor 4B	-	-	4	31616.0	10	-6370	?
Conestoga 1620	-	2	Castor 4B	-	-	2	31616.0	10	-6370	?
Conestoga 1620	-	3	Castor 4B	-	-	1	31616.0	10	-6370	?
Conestoga 1620	-	4	Star 48V	-	-	1	31616.0	10	-6370	?
Conestoga 1620	-	F	Fairing	-	-	2	31616.0	10	-6370	?
GBI BV	-	1	GEM-40	-	-	1	31616.0	70	-6370	?
GBI BV	-	2	Orbus 1	-	-	1	31616.0	100	-6300	?
GBI BV	-	3	Orbus 1	-	-	1	31616.0	200	-6000	?
GBI BV+	-	1	GEM-40	-	-	1	31616.0	70	-6370	?
GBI BV+	-	2	Orbus 1	-	-	1	31616.0	100	-6300	?
GBI BV+	-	3	Orbus 1	-	-	1	31616.0	200	-6000	?
Pershing 1	-	1	TX-174	-	-	1	31616.0	40	-6300	?
Pershing 1	-	2	TX-175	-	-	1	31616.0	250	-6000	?
Pershing 1	-	F	Pershing 1 RV	-	-	1	31616.0	250	-6000	?
Pershing 1A	-	1	TX-174	-	-	1	31616.0	40	-6300	?
Pershing 1A	-	2	TX-175	-	-	1	31616.0	250	-6000	?
Pershing 1A	-	F	Pershing 1 RV	-	-	1	31616.0	250	-6000	?
Pershing 2	-	1	Pershing 2 St1	-	-	1	31616.0	40	-6300	?
Pershing 2	-	2	Pershing 2 St2	-	-	1	31616.0	250	-6000	?
Pershing 2	-	F	Pershing 2 RV	-	-	1	31616.0	250	-6000	?
Pershing 2	1	1	Pershing 2 St1	-	-	1	31616.0	40	-6300	?
Pershing 2	1	2	Pershing 2 St1	-	d	1	31616.0	40	-6300	?
Pershing 2	1	F	Pershing 2 RV	-	-	1	31616.0	250	-6000	?
Sonda 4	-	1	S-43	-	-	1	31616.0	130	-6370	?
Sonda 4	-	2	Sonda 3-1	-	-	1	31616.0	800	-6300	?
VS-40	-	1	S-40TM	-	-	1	31616.0	100	-6300	?
VS-40	-	2	S-44	-	-	1	31616.0	950	-6000	?
VS-40M	-	1	S-40TM	-	-	1	31616.0	100	-6300	?
VS-40M	-	2	S-44M	-	-	1	31616.0	950	-6000	?
VLS-1	-	0	S-43	-	-	4	31616.0	40	-6310	?
VLS-1	-	1	S-43TM	-	-	1	31616.0	120	-6100	?
VLS-1	-	2	S-40TM	-	-	1	31616.0	800	-5000	?
VLS-1	-	3	S-44	-	-	1	31616.0	800	800	?
Temp	-	1	Temp	-	-	1	31616.0	150	-6378	?
Temp-S	-	1	Temp-S	-	-	1	31616.0	150	-6378	?
Astra Rocket 1.0	-	1	Astra 1 Stage 1	-	-	1	31616.0	200	-6378	?
Astra Rocket 1.0	-	2	Astra 1 Stage 2	-	d	1	31616.0	200	200	?
Astra Rocket 2.0	-	1	Astra 1 Stage 1	-	-	1	31616.0	200	-6378	?
Astra Rocket 2.0	-	2	Astra 1 Stage 2	-	d	1	31616.0	200	200	?
Orion LAS	-	1	Orion LAS	-	-	1	31616.0	2	-6300	?
Agni TD	-	1	Agni	-	-	1	31616.0	40	-6300	?
Agni TD	-	2	Prithvi	-	-	1	31616.0	300	-5000	?
Agni P	-	1	Agni P	-	-	1	31616.0	40	-6300	?
Agni P	-	2	Agni P Stage 2	-	-	1	31616.0	400	-5000	?
Agni 1	-	1	Agni	-	-	1	31616.0	40	-6300	?
Agni 2	-	1	Agni	-	-	1	31616.0	40	-6300	?
Agni 2	-	2	Agni II Stage 2	-	-	1	31616.0	400	-5000	?
Agni 2P	-	1	Agni	-	-	1	31616.0	40	-6300	?
Agni 2P	-	2	Agni II Stage 2	-	-	1	31616.0	400	-5000	?
Agni 4	-	1	Agni	-	-	1	31616.0	40	-6300	?
Agni 4	-	2	Agni 4 Stage 2	-	-	1	31616.0	400	-5000	?
ASLV	-	0	AS-0	-	-	2	31616.0	30	-6300	?
ASLV	-	1	AS-1	-	-	1	31616.0	50	-6300	?
ASLV	-	2	AS-2	-	-	1	31616.0	110	-5000	?
ASLV	-	3	AS-3	-	-	1	31616.0	430	-3580	?
ASLV	-	4	AS-4	-	-	1	31616.0	430	400	?
ASLV	-	F	Fairing	-	-	2	31616.0	110	-5000	?
SLV-3	-	1	SLV-3-1	-	-	1	31616.0	40	-6300	?
SLV-3	-	2	SLV-3-2	-	-	1	31616.0	100	-6000	?
SLV-3	-	3	SLV-3-3	-	-	1	31616.0	330	-4700	?
SLV-3	-	4	SLV-3-4	-	-	1	31616.0	300	200	?
SLV-3	-	F	Fairing	-	-	2	31616.0	100	-6000	?
SLV-3	D4	1	SLV-3-1/D4	-	-	1	31616.0	40	-6300	?
SLV-3	D4	2	SLV-3-2/D4	-	-	1	31616.0	100	-6000	?
SLV-3	D4	3	SLV-3-3/D4	-	-	1	31616.0	500	-4150	?
SLV-3	D4	4	AS-4	-	-	1	31616.0	850	390	?
SLV-3	D4	F	Fairing	-	-	2	31616.0	100	-6000	?
HS9	-	1	S9	-	-	1	31616.0	70	-6300	?
KSR-III	-	1	KSR-III	-	-	1	31616.0	100	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
HANBIT-TLV	-	1	HANBIT-TLV	-	-	1	31616.0	100	-6300	?
Vesta	-	1	Vesta	-	-	1	31616.0	200	-6300	?
Talon-A	-	0	Roc	-	-	1	31616.0	20	-6370	?
Talon-A	-	1	Talon-A	-	-	1	31616.0	20	-6370	?
DF-15	-	1	DF-15	-	-	1	31616.0	100	-6370	?
Shaheen 1A	-	1	Shaheen	-	-	1	31616.0	100	-6370	?
Shaheen 1	-	1	Shaheen	-	-	1	31616.0	100	-6370	?
Dezful	-	1	Dezful	?	-	1	31616.0	200	-6350	?
Kheibar Shekan	-	1	Dezful	-	-	1	31616.0	1000	-6100	?
Fattah-1	-	1	Dezful	?	-	1	31616.0	200	-6350	?
V-1000	-	0	V-1000 Booster	-	-	1	31616.0	2	-6378	?
V-1000	-	1	V-1000	-	-	1	31616.0	25	-6300	?
1Ya2TA	-	0	V-1000 Booster	-	-	1	31616.0	2	-6378	?
1Ya2TA	-	1	V-1000	-	-	1	31616.0	25	-6300	?
Oka	-	1	Oka	-	-	1	31616.0	80	-6370	?
Iskander	-	1	Iskander	-	-	1	31616.0	150	-6378	?
Kinzhal	-	0	MiG-31	-	-	1	31616.0	150	-6378	?
Kinzhal	-	1	Iskander	-	-	1	31616.0	150	-6378	?
Bukguekseong-6	-	1	BGS-6	-	-	1	31616.0	100	-6100	?
Hwasong-11Ga	-	1	KN-23	-	-	1	31616.0	20	-6378	?
Hwasong-11Ka	-	1	KN-23	-	-	1	31616.0	20	-6378	?
Hwasong-11Da	-	1	KN-23	-	-	1	31616.0	20	-6378	?
Hwasong-11Da-4.5	-	1	KN-23	-	-	1	31616.0	20	-6378	?
Hwasong-11Ra	-	1	KN-23X	-	-	1	31616.0	20	-6378	?
Iskander-M	-	1	Iskander-M	-	-	1	31616.0	150	-6378	?
Iskander-E	-	1	Iskander-E	-	-	1	31616.0	150	-6378	?
Falstaff	-	1	Stonechat II	-	-	1	31616.0	150	-6370	?
Falstaff	1	1	Stonechat I	-	-	1	31616.0	30	-6378	?
Black Knight	201	1	Black Knight	-	-	1	31616.0	600	-6350	?
Black Knight	201/C	1	Black Knight	-	-	1	31616.0	600	-6350	?
Black Knight	201/C	2	Cuckoo IB	-	-	1	31616.0	600	-6350	?
Black Knight	201/C2	1	Black Knight	-	-	1	31616.0	600	-6350	?
Black Knight	201/C2	2	Cuckoo II	-	-	1	31616.0	600	-6350	?
Black Knight	301/C	1	Black Knight 301	-	-	1	31616.0	600	-6350	?
Black Knight	301/C	2	Cuckoo IB	-	-	1	31616.0	600	-6350	?
Black Knight	301/C2	1	Black Knight 301	-	-	1	31616.0	600	-6350	?
Black Knight	301/C2	2	Cuckoo II	-	-	1	31616.0	600	-6350	?
Nike Zeus A	-	1	TX-135	-	-	1	31616.0	10	-6378	?
Nike Zeus A	-	2	Zeus A	-	-	1	31616.0	50	-6370	?
Skybolt ALBM	-	1	Skybolt St1	-	-	1	31616.0	20	-6378	?
Skybolt ALBM	-	2	Skybolt St2	-	-	1	31616.0	20	-6370	?
IRCPS	-	1	IRCPS FSM	-	-	1	31616.0	20	-6370	?
IRCPS	-	2	IRCPS SSM	-	-	1	31616.0	100	-6370	?
Ghaznavi	-	1	Ghaznavi	-	-	1	31616.0	100	-6370	?
OS-X0	-	1	OS-X0	-	-	1	31616.0	40	-6378	?
OS-X1	-	1	OS-X0	-	-	1	31616.0	40	-6378	?
OS-M1	-	1	OS-X0	-	-	1	31616.0	40	-6378	?
OS-M1	-	2	OS-M1 Stage 2	-	-	1	31616.0	40	-6378	?
OS-M1	-	3	OS-M1 Stage 3	-	-	1	31616.0	200	-6000	?
OS-M1	-	4	OS-M1 Stage 4	-	-	1	31616.0	300	300	?
OS-X6B	-	1	OS-X6B	-	-	1	31616.0	300	-6370	?
DF-11	-	1	DF-11	-	-	1	31616.0	100	-6370	?
DF-11M	-	1	DF-11M	-	-	1	31616.0	100	-6370	?
Elbrus	-	1	Scud B	-	-	1	31616.0	90	-6370	?
Shahab 1	-	1	Hwasong 5	-	-	1	31616.0	200	-6250	?
Shahab 2	-	1	Hwasong 6	-	-	1	31616.0	200	-6250	?
Qiam-1	-	1	Hwasong 6	-	-	1	31616.0	200	-6250	?
Scud B	-	1	Scud B	-	-	1	31616.0	100	-6200	?
R-17	-	1	R-17	-	-	1	31616.0	200	-6250	?
R-17VTO	-	1	R-17	-	-	1	31616.0	200	-6250	?
Al Abbas	-	1	Al Abbas	-	-	1	31616.0	100	-6200	?
Al Hussein	-	1	Al Hussein	-	-	1	31616.0	100	-6200	?
Al Hijara	-	1	Al Hussein	-	-	1	31616.0	100	-6200	?
Short Al Hussein	-	1	Short Al Hussein	-	-	1	31616.0	100	-6200	?
Scud	-	1	Scud	-	-	1	31616.0	100	-6200	?
Hwasong 5	-	1	Hwasong 5	-	-	1	31616.0	200	-6350	?
Hwasong 6	-	1	Hwasong 6	-	-	1	31616.0	200	-6350	?
Hwasong 9	-	1	Hwasong ER	-	-	1	31616.0	150	-6300	?
Burkan-1H	-	1	Hwasong 6	-	-	1	31616.0	200	-6350	?
Burkan-2H	-	1	Hwasong 6	-	-	1	31616.0	200	-6350	?
Burkan-3	-	1	Hwasong 6	-	-	1	31616.0	200	-6350	?
Zulfiqar	YE	1	Hwasong 6	?	-	1	31616.0	200	-6350	?
R-11	-	1	R-11	-	-	1	31616.0	200	-6250	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
R-11M	-	1	R-11	-	-	1	31616.0	200	-6250	?
R-11FM	-	1	R-11FM	-	-	1	31616.0	200	-6250	?
R-11A	-	1	R-11	-	-	1	31616.0	200	-6250	?
R-11A-MV	-	1	R-11	-	-	1	31616.0	200	-6250	?
Wasserfall	-	1	Wasserfall	-	-	1	31616.0	10	-6378	?
CHGB Booster	-	1	CHGB LV St 1	-	-	1	31616.0	20	-6378	?
CHGB Booster	-	2	CHGB LV St 2	-	-	1	31616.0	150	-6378	?
Hermes A-1	-	1	Hermes A-1	-	-	1	31616.0	30	-6370	?
Viking	-	1	Viking	-	-	1	31616.0	200	-6300	?
Topaze VE111	-	1	Topaze VE111C	-	-	1	31616.0	100	-6370	?
Topaze VE111L	-	1	Topaze VE111L	-	-	1	31616.0	100	-6370	?
Agate	-	1	Agate	-	-	1	31616.0	20	-6300	?
Rubis	-	1	Agate	-	-	1	31616.0	30	-6200	?
Rubis	-	2	P064	-	-	1	31616.0	2000	-5900	?
MD-620	-	1	MD-620	-	-	1	31616.0	100	-6370	?
MD-620	2	1	MD-620	-	-	1	31616.0	100	-6370	?
MD-620	2	2	NA-805	-	-	1	31616.0	100	-6370	?
Jericho	-	1	MD-620	-	-	1	31616.0	100	-6370	?
Jericho	-	2	NA-805	-	-	1	31616.0	100	-6370	?
Jericho-1	-	1	Jericho-1	-	-	1	31616.0	100	-6370	?
Arrow 2	-	1	IAI Arrow	-	-	1	31616.0	10	-6378	?
Arrow 2	-	2	IAI Arrow St2	-	-	1	31616.0	80	-6378	?
HIBEX	-	1	HIBEX	-	-	1	31616.0	20	-6300	?
Upstage	-	1	HIBEX-U	-	-	1	31616.0	20	-6300	?
Upstage	-	2	Upstage	-	-	1	31616.0	20	-6300	?
ARPAT	-	0	Recruit	-	-	2	31616.0	2	-6378	?
ARPAT	-	1	Castor	-	-	1	31616.0	30	-6300	?
ARPAT	-	2	TX-261	-	-	1	31616.0	30	-6300	?
RV-A-10	-	1	RV-A-10	-	-	1	31616.0	50	-6370	?
Sergeant	-	1	Sergeant	-	-	1	31616.0	100	-6200	?
Sergeant	2R	0	Recruit	-	-	2	31616.0	1	-6200	?
Sergeant	2R	1	Sergeant	-	-	1	31616.0	100	-6200	?
High Virgo WS199C	-	0	B-58 Hustler	-	-	1	31616.0	10	-6378	?
High Virgo WS199C	-	1	TX-20 Sergeant	-	-	1	31616.0	76	-6370	?
Polaris TV	-	1	Polaris TV	-	-	1	31616.0	500	-6370	?
Polaris FTV-5	-	1	TX-20 Sergeant	-	-	1	31616.0	10	-6378	?
Polaris FTV-5	-	2	10KS2500	-	-	1	31616.0	40	-6378	?
Journeyman	-	0	Recruit	-	-	2	31616.0	1	-6378	?
Journeyman	-	1	Sergeant	-	-	1	31616.0	30	-6378	?
Journeyman	-	2	Lance	-	-	1	31616.0	70	-6378	?
Journeyman	-	3	Lance	-	-	1	31616.0	300	-6300	?
Journeyman	-	4	Altair	-	-	1	31616.0	1100	-6250	?
Bold Orion	1	0	B-47 Stratojet	-	-	1	31616.0	10	-6378	?
Bold Orion	1	1	Sergeant	-	-	1	31616.0	100	-6350	?
Bold Orion	2	0	B-47 Stratojet	-	-	1	31616.0	10	-6378	?
Bold Orion	2	1	Sergeant	-	-	1	31616.0	90	-6350	?
Bold Orion	2	2	Altair	-	-	1	31616.0	200	-6300	?
Storm	-	1	Sergeant	-	-	1	31616.0	50	-6370	?
Storm	-	2	M57A1	-	-	1	31616.0	200	-6350	?
Sergeant Hydac	-	1	Sergeant	-	-	1	31616.0	50	-6370	?
Sergeant Hydac	-	2	Hydac	-	-	1	31616.0	400	-6300	?
Draco	-	1	TX-20 Sergeant	-	-	1	31616.0	10	-6378	?
Draco	-	2	TX-30	-	-	1	31616.0	30	-6378	?
X-17	-	1	TX-20 Sergeant	-	-	1	31616.0	140	-6300	?
X-17	-	2	Recruit	-	-	3	31616.0	140	-6000	?
X-17	-	3	Recruit	-	-	1	31616.0	140	-5800	?
Polaris FTV-3	-	1	Sergeant	-	-	1	31616.0	140	-6300	?
Polaris FTV-3	-	2	Recruit	-	-	3	31616.0	140	-6000	?
Polaris FTV-3	-	3	Recruit	-	-	1	31616.0	140	-5800	?
Polaris FTV-1	-	1	Sergeant	-	-	1	31616.0	140	-6300	?
Shotput	-	0	Recruit	-	-	2	31616.0	1	-6378	?
Shotput	-	1	Pollux	-	-	1	31616.0	70	-6350	?
Shotput	-	2	Altair	-	-	1	31616.0	400	-6160	?
Shotput	-	F	Fairing	-	-	2	31616.0	70	-6350	?
Sergeant 5-stage	-	1	Sergeant	-	-	1	31616.0	10	-6378	?
Sergeant 5-stage	-	2	Lance	-	-	1	31616.0	10	-6378	?
Sergeant 5-stage	-	3	Lance	-	-	1	31616.0	10	-6378	?
Sergeant 5-stage	-	4	Recruit	-	-	1	31616.0	30	-6300	?
Sergeant 5-stage	-	5	T-55	-	-	1	31616.0	34	-6200	?
Castor	-	1	Castor	-	-	1	31616.0	100	-6378	?
Blue Scout Jr	-	1	Castor	-	-	1	31616.0	50	-6350	?
Blue Scout Jr	-	2	Antares	-	-	1	31616.0	200	-6300	?
Blue Scout Jr	-	3	Alcor	-	-	1	31616.0	1000	-4300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Blue Scout Jr	-	4	Cetus	-	-	1	31616.0	20000	-2000	?
Blue Scout Jr	-	F	Fairing	-	-	2	31616.0	200	-6300	?
Blue Scout Jr SLV-1B(m)	-	1	Castor	-	-	1	31616.0	50	-6350	?
Blue Scout Jr SLV-1B(m)	-	2	Antares	-	-	1	31616.0	200	-6300	?
Blue Scout Jr SLV-1B(m)	-	3	Alcor	-	-	1	31616.0	2200	-6120	?
Blue Scout Jr SLV-1B(m)	-	F	Fairing	-	-	2	31616.0	200	-6300	?
Blue Scout Jr SLV-1C	-	1	Castor	-	-	1	31616.0	50	-6350	?
Blue Scout Jr SLV-1C	-	2	Antares	-	-	1	31616.0	200	-6300	?
Blue Scout Jr SLV-1C	-	3	Altair	-	-	1	31616.0	1000	-4600	?
Blue Scout Jr SLV-1C	-	F	Fairing	-	-	2	31616.0	200	-6300	?
RAM A	-	0	Recruit	-	-	2	31616.0	1	-6378	?
RAM A	-	1	Castor	-	-	1	31616.0	50	-6300	?
RAM A	-	2	Skat	-	-	1	31616.0	120	-6300	?
RAM A	-	3	Skat	-	-	1	31616.0	200	-6200	?
RAM A	-	4	Recruit	-	-	1	31616.0	1280	-5340	?
RAM B	-	1	Castor	-	-	1	31616.0	25	-6300	?
RAM B	-	2	Antares	-	-	1	31616.0	50	-5900	?
RAM B	-	3	Alcor	-	-	1	31616.0	88	-4200	?
Strypi	-	0	Recruit	-	-	2	31616.0	1	-6378	?
Strypi	-	1	Castor	-	-	1	31616.0	220	-6100	?
Swik A	-	0	Recruit	-	-	2	31616.0	1	-6378	?
Swik A	-	1	Castor	-	-	1	31616.0	100	-6100	?
Swik A	-	2	Antares	-	-	1	31616.0	1200	-6100	?
Strypi II	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi II	-	1	Castor	-	-	1	31616.0	250	-6300	?
Strypi IIR	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi IIR	-	1	Castor	-	-	1	31616.0	250	-6300	?
Strypi IIAR	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi IIAR	-	1	Castor 2	-	-	1	31616.0	250	-6300	?
Strypi IV	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi IV	-	1	Castor	-	-	1	31616.0	200	-6300	?
Strypi IV	-	2	Star 26	-	-	1	31616.0	200	-6000	?
Strypi IVA	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi IVA	-	1	Castor	-	-	1	31616.0	200	-6300	?
Strypi IVA	-	2	Star 26	?	-	1	31616.0	200	-6000	?
Strypi IVR	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi IVR	-	1	Castor	-	-	1	31616.0	200	-6300	?
Strypi IVR	-	2	Star 26	-	-	1	31616.0	200	-6000	?
Strypi VI	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi VI	-	1	Castor	-	-	1	31616.0	200	-6300	?
Strypi VI	-	2	Alcor	?	-	1	31616.0	200	-6100	?
Strypi VI	-	3	Alcyone	?	-	1	31616.0	250	-6000	?
Strypi VIIAR	-	0	Recruit	-	-	2	31616.0	2	-6378	?
Strypi VIIAR	-	1	Castor 2	-	-	1	31616.0	40	-6378	?
Strypi VIIAR	-	2	Alcor	-	-	1	31616.0	170	-6300	?
Strypi VIIAR	-	3	Alcyone	-	-	1	31616.0	500	-5000	?
Strypi VIIR	-	0	Recruit	-	-	2	582.0	1	-6378	?
Strypi VIIR	-	1	Castor	-	-	1	7311.0	40	-6378	?
Strypi VIIR	-	2	Alcor IB	-	-	1	1148.0	170	-6300	?
Strypi VIIR	-	3	Alcyone	-	-	1	269.0	1000	-4300	?
Strypi VIIIR	-	0	Recruit	-	-	2	582.0	1	-6378	?
Strypi VIIIR	-	1	Castor	-	-	1	7311.0	40	-6378	?
Strypi VIIIR	-	2	Antares 2	?	-	1	1148.0	170	-6300	?
Strypi IX	-	1	Castor	-	-	1	1148.0	200	-6300	?
Strypi IX	-	2	Antares 2	-	-	1	1148.0	200	-5000	?
Strypi XI	-	0	Recruit	-	-	2	1148.0	2	-6378	?
Strypi XI	-	1	Castor	-	-	1	1148.0	50	-6378	?
Strypi XI	-	2	Antares 2	-	-	1	1148.0	200	-6300	?
Strypi XI	-	3	Star 27	-	-	1	1148.0	200	-6000	?
Castor	2R	0	Recruit	-	-	2	1148.0	1	-6378	?
Castor	2R	1	Castor	-	-	1	1148.0	200	-6300	?
DOT	-	0	Recruit	-	-	2	1148.0	5	-6378	?
DOT	-	1	Castor	-	-	1	1148.0	100	-6370	?
DOT	-	2	Star 26C	-	-	1	1148.0	300	-6300	?
Athena	-	0	Recruit	-	-	2	1148.0	1	-6378	?
Athena	-	1	Castor	-	-	1	1148.0	45	-6300	?
Athena	-	2	TX-261-2	-	-	1	1148.0	200	-6250	?
Athena	-	3	Alcor	-	-	1	1148.0	600	-5100	?
Athena	-	4	BE-3A4	-	-	1	1148.0	2000	-4000	?
WASP	-	0	Recruit	-	-	2	1148.0	2	-6378	?
WASP	-	1	Pollux	-	-	1	1148.0	50	-6370	?
WASP	-	2	Antares	-	-	1	1148.0	238	-6370	?
Castor Lance	-	0	Recruit	-	-	2	1148.0	1	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Castor Lance	-	1	Castor	-	-	1	1148.0	50	-6350	?
Castor Lance	-	2	Lance	-	-	1	1148.0	500	-6350	?
Castor-Recruit	-	1	Castor	-	-	1	1148.0	50	-6370	?
Castor-Recruit	-	2	Recruit	-	-	1	1148.0	150	-6300	?
Trailblazer 2	-	0	Recruit	-	-	2	530.0	1	-6378	?
Trailblazer 2	-	1	Castor	-	-	1	8930.0	58	-6350	?
Trailblazer 2	-	2	Lance	-	-	1	8930.0	300	-6310	?
Trailblazer 2	-	3	Altair	-	-	1	507.0	700	-6368	?
Trailblazer 2	-	4	Cygnus 15	-	-	1	507.0	2670	-6360	?
Trailblazer 2	M	0	Recruit	-	-	2	530.0	1	-6378	?
Trailblazer 2	M	1	Castor	-	-	1	8930.0	58	-6350	?
Trailblazer 2	M	2	Skat	-	-	1	8930.0	305	-6310	?
Trailblazer 2	M	3	Altair	-	-	1	507.0	700	-6370	?
Trailblazer 2	M	4	Cygnus 15	-	-	1	106.0	2300	-6320	?
Trailblazer 2	M	5	Cygnus 5	-	-	1	3.8	2000	-6328	?
Astrobee 1500	-	0	Recruit	-	-	2	3.8	2	-6378	?
Astrobee 1500	-	1	Aerojet Jr	-	-	1	3.8	278	-6300	?
Astrobee 1500	-	2	Alcor	-	-	1	3.8	2000	-6065	?
Scanner	-	0	Recruit	-	-	2	3.8	5	-6378	?
Scanner	-	1	Aerojet Jr	-	-	1	3.8	30	-6370	?
Scanner	-	2	Lance	-	-	1	3.8	100	-6200	?
Scanner	-	3	Altair	-	-	1	3.8	700	-6000	?
Xaero	-	1	Xaero	-	-	1	3.8	30	-6378	?
D-21B	-	1	Avanti	-	-	1	3.8	20	-6300	?
D-21B	-	2	D-21B	-	-	1	3.8	30	-6300	?
RTV-A-2	-	1	MX-774	-	-	1	3.8	50	-6370	?
Corporal	-	1	Corporal Type 1	-	-	1	3.8	30	-6370	?
Corporal Type 1	-	1	Corporal Type 1	-	-	1	3.8	30	-6370	?
Corporal E	-	1	Corporal E	-	-	1	3.8	40	-6370	?
Talos	-	1	Talos	-	-	1	3.8	10	-6378	?
HPB	-	1	Talos	-	-	1	3.8	5	-6378	?
HPB	-	2	M56A1	-	-	1	3.8	400	-6300	?
Talos Castor	-	1	Talos	-	-	1	3.8	10	-6378	?
Talos Castor	-	2	Castor	-	-	1	3.8	330	-6370	?
Talos Terrier	-	1	Talos	-	-	1	3.8	1	-6378	?
Talos Terrier	-	2	Terrier	-	-	1	3.8	12	-6378	?
Talos Terrier Oriole	-	1	Talos	-	-	1	3.8	1	-6378	?
Talos Terrier Oriole	-	2	Terrier Mk 70	-	-	1	3.8	12	-6378	?
Talos Terrier Oriole	-	3	Oriole	-	-	1	3.8	300	-6378	?
SRBM T4-G	-	1	Talos	-	-	1	3.8	10	-6370	?
SRBM T4-G	-	2	Oriole	-	-	1	3.8	200	-6370	?
LCLV	-	1	Talos	-	-	1	3.8	10	-6370	?
LCLV	-	2	Sergeant	-	-	1	3.8	90	-6300	?
LCLV	-	3	M57A1	-	-	1	3.8	400	-6000	?
Talos Sergeant Hydac	-	1	Talos	-	-	1	3.8	10	-6378	?
Talos Sergeant Hydac	-	2	Sergeant	-	-	1	3.8	50	-6300	?
Talos Sergeant Hydac	-	3	Hydac	-	-	1	3.8	500	-6000	?
TATER	-	1	Talos	-	-	1	3.8	1	-6378	?
TATER	-	2	Terrier	-	-	1	3.8	5	-6378	?
TATER	-	3	Recruit	-	-	1	3.8	14	-6378	?
Starbird	-	1	Talos	-	-	1	3.8	10	-6378	?
Starbird	-	2	Sergeant	-	-	1	3.8	30	-6378	?
Starbird	-	3	Orbus 1	-	-	1	3.8	100	-6300	?
Starbird	-	4	Orbus 1	-	-	1	3.8	100	-6250	?
Super Chief I	-	1	Talos	-	-	1	3.8	20	-6378	?
Super Chief I	-	2	Sergeant	-	-	1	3.8	300	-6350	?
Super Chief II	-	1	Talos	-	-	1	3.8	20	-6378	?
Super Chief II	-	2	Castor	-	-	1	3.8	300	-6350	?
Talos Terrier Peregrine	-	1	Talos	-	-	1	3.8	1	-6378	?
Talos Terrier Peregrine	-	2	Terrier Mk 70	-	-	1	3.8	12	-6378	?
Talos Terrier Peregrine	-	3	Peregrine	-	-	1	3.8	300	-6378	?
Oriole III	-	1	Talos	-	-	1	3.8	1	-6378	?
Oriole III	-	2	Terrier	-	-	1	3.8	12	-6378	?
Oriole III	-	3	Oriole	-	-	1	3.8	300	-6378	?
Oriole IV	-	1	Talos	-	-	1	3.8	1	-6378	?
Oriole IV	-	2	Terrier Mk 70	-	-	1	3.8	12	-6378	?
Oriole IV	-	3	Oriole	-	-	1	3.8	300	-6378	?
Oriole IV	-	4	Nihka	-	-	1	3.8	800	-6378	?
Black Brant XI	-	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XI	-	2	Taurus	-	-	1	3.8	19	-6370	?
Black Brant XI	-	3	Black Brant VB	-	-	1	3.8	300	-6350	?
Black Brant XII	-	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XII	-	2	Taurus	-	-	1	3.8	19	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Black Brant XII	-	3	Black Brant VB	-	-	1	3.8	340	-6340	?
Black Brant XII	-	4	Nihka	-	-	1	3.8	800	-6270	?
Black Brant XII	-	F	Fairing	-	-	2	3.8	340	-6340	?
Black Brant XIA	-	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XIA	-	2	Terrier Mk 70	-	-	1	3.8	19	-6370	?
Black Brant XIA	-	3	Black Brant Mk1	-	-	1	3.8	340	-6340	?
Black Brant XIA	-	F	Fairing	-	-	2	3.8	340	-6340	?
Black Brant XIIA	-	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XIIA	-	2	Terrier Mk 70	-	-	1	3.8	19	-6370	?
Black Brant XIIA	-	3	Black Brant Mk1	-	-	1	3.8	340	-6340	?
Black Brant XIIA	-	4	Nihka	-	-	1	3.8	800	-6270	?
Black Brant XIIA	-	F	Fairing	-	-	2	3.8	340	-6340	?
Black Brant XI	1	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XI	1	2	Taurus	-	-	1	3.8	19	-6370	?
Black Brant XI	1	3	Black Brant Mk1	-	-	1	3.8	300	-6350	?
Black Brant XII	1	1	Talos	-	-	1	3.8	5	-6378	?
Black Brant XII	1	2	Taurus	-	-	1	3.8	19	-6370	?
Black Brant XII	1	3	Black Brant Mk1	-	-	1	3.8	340	-6340	?
Black Brant XII	1	4	Nihka	-	-	1	3.8	800	-6270	?
Black Brant XII	1	F	Fairing	-	-	2	3.8	340	-6340	?
NOTS EV1	-	0	F4D-1 Skyray	-	-	1	3.8	12	-6378	?
NOTS EV1	-	1	HOTROC	-	-	2	3.8	48	-6360	?
NOTS EV1	-	2	HOTROC	-	-	2	3.8	81	-6300	?
NOTS EV1	-	3	X-241	-	-	1	3.8	83	-4300	?
NOTS EV1	-	4	NOTS 8in	-	-	1	3.8	730	-330	?
NOTS EV1	-	5	NOTS 3in Sph.	-	-	1	3.8	2500	90	?
NOTS EV1	-	F	Fairing	-	-	1	3.8	50	-6360	?
NOTS EV1	1	1	HOTROC	-	-	2	3.8	40	-6370	?
NOTS EV1	1	2	HOTROC	-	d	2	3.8	40	-6370	?
NOTS EV1	1	3	X-241	-	d	1	3.8	40	-6370	?
NOTS EV1	1	4	NOTS 8in	-	d	1	3.8	40	-6370	?
NOTS EV1	1	5	NOTS 3in Sph.	-	d	1	3.8	40	-6370	?
NOTS EV1	1	F	Fairing	-	-	1	3.8	40	-6370	?
Al Samoud 2	-	1	Al Samoud 2	-	-	1	3.8	100	-6378	?
OTRAG	-	1	OTRAG	-	-	1	3.8	50	-6370	?
TKS VA SAS	-	1	TKS VA SAS	-	-	1	3.8	1	-6378	?
Lambda 2	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 2	-	1	L735	-	-	1	11800.0	25	-6370	?
Lambda 2	-	2	Lambda2-2	-	-	1	11800.0	410	-6360	?
Lambda 3	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 3	-	1	L735	-	-	1	11800.0	30	-6370	?
Lambda 3	-	2	Lambda3-2	-	-	1	11800.0	300	-6370	?
Lambda 3	-	3	Lambda3-3	-	-	1	11800.0	1000	-6344	?
Lambda 3	-	F	Fairing	-	-	2	11800.0	300	-6370	?
Lambda 3H	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 3H	-	1	L735	-	-	1	11800.0	25	-6370	?
Lambda 3H	-	2	L735(1/3)	-	-	1	4531.0	300	-6370	?
Lambda 3H	-	3	L500	-	-	1	1863.0	2000	-6340	?
Lambda 3H	-	F	Fairing	-	-	2	1863.0	300	-6370	?
Lambda 4S	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 4S	-	1	L735	-	-	1	11800.0	50	-6360	?
Lambda 4S	-	2	L735(1/3)	-	-	1	4531.0	300	-6300	?
Lambda 4S	-	3	L500	-	-	1	1863.0	525	-4800	?
Lambda 4S	-	4	L480S	-	-	1	245.0	4000	500	?
Lambda 4S	-	F	Fairing	-	-	2	245.0	300	-6300	?
Lambda 4SC	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 4SC	-	1	L735	-	-	1	11800.0	50	-6360	?
Lambda 4SC	-	2	L735(1/3)	-	-	1	4531.0	300	-6300	?
Lambda 4SC	-	3	L500	-	-	1	1863.0	300	-6000	?
Lambda 4SC	-	4	L480S	-	-	1	245.0	300	-6000	?
Lambda 4T	-	0	SB-310	-	-	2	1406.0	3	-6370	?
Lambda 4T	-	1	L735	-	-	1	11800.0	50	-6360	?
Lambda 4T	-	2	L735(1/3)	-	-	1	4531.0	300	-6300	?
Lambda 4T	-	3	L500	-	-	1	1863.0	400	-5000	?
Lambda 4T	-	4	L480S	-	-	1	245.0	400	-2500	?
ST-735	-	1	ST-735	-	-	1	245.0	30	-6378	?
ST-735	-	2	ST-735 Stage 2	-	-	1	245.0	100	-6378	?
ST-735	1	0	ST-735-SB	-	-	2	245.0	5	-6378	?
ST-735	1	1	ST-735	-	-	1	245.0	50	-6378	?
NAL-735	-	1	NAL-735	-	-	1	245.0	10	-6378	?
Shaurya	-	1	Shaurya Booster	-	-	1	245.0	10	-6370	?
Shaurya	-	2	Shaurya	-	-	1	245.0	200	-6370	?
Kontakt	-	0	MiG31D 072	-	-	1	245.0	17	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Kontakt	-	1	27D6	-	-	1	245.0	20	-6300	?
Kontakt	-	2	28D6	-	-	1	245.0	100	-6300	?
Kontakt	-	3	29D6	-	-	1	245.0	500	-6300	?
VLS-R1	-	1	VLS-R1 Strapon	-	-	4	245.0	10	-6370	?
VLS-R1	-	2	VLS-R1	-	d	1	245.0	10	-6370	?
Pedro Recruit	-	1	Pedro	-	-	1	245.0	17	-6378	?
Pedro Recruit	-	2	Recruit	-	-	1	245.0	17	-6378	?
Arrow 3	-	1	Arrow 3	-	-	1	245.0	10	-6378	?
Arrow 3	-	2	Arrow 3 Stage 2	-	-	1	245.0	80	-6378	?
Miura 1	-	1	Miura 1	-	-	1	245.0	150	-6378	?
Skylark L	-	1	Skylark L	-	-	1	245.0	30	-6378	?
HIMES Rockoon	-	0	Balloon	-	-	1	245.0	18	-6378	?
HIMES Rockoon	-	1	KM Rockoon	-	-	1	245.0	70	-6378	?
Zulfiqar	-	1	Zulfiqar	-	-	1	245.0	60	-6378	?
Zolfaghar	-	1	Zolfaghar	?	-	1	245.0	200	-6350	?
Apollo LES	-	1	Apollo LES	-	-	1	245.0	2	-6300	?
ARRW	-	1	ARRW	-	-	1	245.0	30	-6370	?
KN-02	-	1	KN-02	-	-	1	245.0	20	-6378	?
Tochka	-	1	Tochka	-	-	1	245.0	20	-6378	?
Tochka-U	-	1	Tochka-U	-	-	1	245.0	20	-6378	?
ZUR-215	-	1	ZUR-215	-	-	1	245.0	27	-6378	?
V-750	-	0	V-750 Booster	-	-	1	245.0	10	-6378	?
V-750	-	1	V-750	-	-	1	245.0	27	-6378	?
Qahir-1	-	0	V-750 Booster	-	-	1	245.0	10	-6378	?
Qahir-1	-	1	V-750	-	-	1	245.0	27	-6378	?
Qahir-M2	-	0	V-750 Booster	-	-	1	245.0	10	-6378	?
Qahir-M2	-	1	V-750	-	-	1	245.0	27	-6378	?
SR75	-	1	SR75	-	-	1	245.0	50	-6378	?
Sabre Zombie	-	1	Sabre Zombie	-	-	1	245.0	120	-6300	?
Pathfinder Zombie	-	1	Pathfinder Zombie	-	-	1	245.0	120	-6300	?
ATACMS	-	1	ATACMS	-	-	1	245.0	120	-6300	?
X-51A	-	0	B-52H	-	-	1	245.0	15	-6378	?
X-51A	-	1	ATACMS	-	-	1	245.0	15	-6378	?
X-51A	-	2	X-51A	-	-	1	245.0	20	-6378	?
Tayfun	-	1	B-611	-	-	1	245.0	100	-6370	?
Bora-1	-	1	B-611	-	-	1	245.0	100	-6370	?
B-611	-	1	B-611	-	-	1	245.0	100	-6370	?
TP 0.1	-	1	B-611	-	-	1	245.0	20	-6378	?
TP 0.2	-	1	B-611	-	-	1	245.0	20	-6378	?
TP 0.2	-	2	B-611	-	-	1	245.0	20	-6378	?
SR 0.1	-	1	B-611	-	-	1	245.0	20	-6378	?
SR 0.1	-	2	SR 0.1	-	-	1	245.0	20	-6378	?
K-BATS	-	1	K-BATS	-	-	1	245.0	50	-6370	?
Hwasong-11Na	-	1	KN-24	-	-	1	245.0	40	-6378	?
Badr-1	-	1	Badr-1	-	-	1	245.0	20	-6378	?
Grad	-	1	Grad	-	-	1	245.0	20	-6378	?
NOTS EV2	-	0	F4H Phantom	-	-	1	245.0	10	-6378	?
NOTS EV2	-	1	NOTS 500	-	-	1	245.0	45	-6378	?
NOTS EV2	-	2	X-248	-	-	1	245.0	1100	-6300	?
GFV	1	0	HVAR	-	-	5	245.0	10	-6378	?
GFV	1	1	NOTS 500	-	-	1	245.0	45	-6378	?
GFV	1	2	NOTS 505	-	-	1	245.0	1100	-6300	?
GFV	2	0	HVAR	-	-	5	245.0	10	-6378	?
GFV	2	1	NOTS 500	-	-	1	245.0	45	-6378	?
GFV	2	2	X-248	-	-	1	245.0	1100	-6300	?
HYSR	-	1	HYSR	-	-	1	245.0	70	-6370	?
SORS	-	1	SORS	-	-	1	245.0	70	-6370	?
LS-C	-	1	LS-C Booster	-	-	1	245.0	5	-6378	?
LS-C	-	2	LS-C	-	-	1	245.0	100	-6370	?
LS-C	7	1	LS-C Booster	-	-	1	245.0	5	-6378	?
LS-C	7	2	LS-C-7	-	-	1	245.0	100	-6370	?
Seliger 1	-	1	Seliger 1	-	-	1	245.0	50	-6378	?
Seliger 2	-	1	Seliger 1	-	-	1	245.0	20	-6378	?
Seliger 2	-	2	Seliger 1	-	-	1	245.0	50	-6378	?
Seliger 3	-	1	Seliger 1	-	-	1	245.0	20	-6378	?
Seliger 3	-	2	Seliger 1	-	-	1	245.0	50	-6378	?
Seliger 3	-	3	Seliger 3	-	-	1	245.0	120	-6350	?
JTSPACE Sounding Rocket	-	1	JTSPACE S1	-	-	1	245.0	2	-6378	?
JTSPACE Sounding Rocket	-	2	JTSPACE S1	-	-	1	245.0	50	-6378	?
Javelin	-	1	M-6	-	-	1	245.0	5	-6370	?
Javelin	-	2	Nike	-	-	1	245.0	14	-6370	?
Javelin	-	3	Nike	-	-	1	245.0	95	-6300	?
Javelin	-	4	Altair	-	-	1	245.0	1300	-6150	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Trailblazer 1	-	1	M-6	-	-	1	245.0	12	-6378	?
Trailblazer 1	-	2	Nike	-	-	1	245.0	40	-6378	?
Trailblazer 1	-	3	Lance	-	-	1	245.0	300	-6338	?
Trailblazer 1	-	4	T-40	-	-	1	245.0	425	-6361	?
Trailblazer 1	-	5	T-55	-	-	1	245.0	943	-6369	?
Trailblazer 1	-	6	Cygnus 5	-	-	1	245.0	3331	-6289	?
Taurus Orion	-	1	Taurus	-	-	1	245.0	20	-6378	?
Taurus Orion	-	2	Orion	-	-	1	245.0	200	-6360	?
Taurus Tomahawk	-	1	Taurus	-	-	1	245.0	20	-6378	?
Taurus Tomahawk	-	2	Tomahawk	-	-	1	245.0	500	-6100	?
Taurus Nike Tomahawk	-	1	Taurus	-	-	1	245.0	10	-6378	?
Taurus Nike Tomahawk	-	2	Nike	-	-	1	245.0	40	-6378	?
Taurus Nike Tomahawk	-	3	Tomahawk	-	-	1	245.0	500	-6360	?
Taurus	S	1	Taurus	-	-	1	245.0	10	-6378	?
Taurion	-	1	Taurion	-	-	1	245.0	2	-6100	?
Exos	-	1	M-6	-	-	1	245.0	14	-6378	?
Exos	-	2	Nike	-	-	1	245.0	37	-6370	?
Exos	-	3	Yardbird	-	-	1	245.0	600	-6370	?
Strongarm	-	1	M-6	-	-	1	245.0	10	-6378	?
Strongarm	-	2	Nike	-	-	1	245.0	40	-6370	?
Strongarm	-	3	Nike	-	-	1	245.0	75	-6300	?
Strongarm	-	4	Yardbird	-	-	1	245.0	500	-6200	?
Strongarm	-	5	Baby Sergeant	-	-	1	245.0	1000	-6000	?
Strongarm	1	1	M-6	-	-	1	245.0	10	-6378	?
Strongarm	1	2	Nike	-	-	1	245.0	40	-6370	?
Strongarm	1	3	Nike	-	-	1	245.0	75	-6300	?
Strongarm	1	4	Recruit	-	-	1	245.0	75	-6300	?
Honest John	-	1	M-6	-	-	1	245.0	10	-6370	?
Father John	1	0	Deacon	-	-	6	245.0	1	-6370	?
Father John	1	1	M-6	-	-	1	245.0	2	-6370	?
Father John	2	0	Deacon	-	-	8	245.0	1	-6370	?
Father John	2	1	M-6	-	-	1	245.0	2	-6370	?
Improved Honest John	-	1	Taurus	-	-	1	245.0	2	-6370	?
HJ	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Hydac	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Hydac	-	2	Hydac	-	-	1	245.0	170	-6370	?
HJ Orion	-	1	M-6	-	-	1	245.0	20	-6370	?
HJ Orion	-	2	Orion	-	-	1	245.0	120	-6370	?
HJ Javelin	-	1	M-6	-	-	1	245.0	15	-6370	?
HJ Javelin	-	2	Javelin 3	-	-	1	245.0	300	-6370	?
HJ Nike	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Nike	-	2	Nike	-	-	1	245.0	100	-6370	?
HJ Nike Hydac	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Nike Hydac	-	2	Nike	-	-	1	245.0	50	-6370	?
HJ Nike Hydac	-	3	Hydac	-	-	1	245.0	500	-6370	?
HJ Nike Javelin	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Nike Javelin	-	2	Nike	-	-	1	245.0	40	-6370	?
HJ Nike Javelin	-	3	Javelin 3	-	-	1	245.0	300	-6370	?
HJ Nike Gosling	-	1	M-6	-	-	1	245.0	24	-6365	?
HJ Nike Gosling	-	2	Nike	-	-	1	245.0	37	-6290	?
HJ Nike Gosling	-	3	Gosling	-	-	1	245.0	43	-6276	?
HJ Nike Nike	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ Nike Nike	-	2	Nike	-	-	1	245.0	40	-6300	?
HJ Nike Nike	-	3	Nike	-	-	1	245.0	120	-6300	?
HJ Nike Nike 20"SM	-	1	M-6	-	-	1	245.0	15	-6360	?
HJ Nike Nike 20"SM	-	2	Nike	-	-	1	245.0	40	-6300	?
HJ Nike Nike 20"SM	-	3	Nike	-	-	1	245.0	90	-6300	?
HJ Nike Nike 20"SM	-	4	Cygnus 20	-	-	1	245.0	1380	-6100	?
HJ Nike T40	-	1	M-6	-	-	1	245.0	10	-6378	?
HJ Nike T40	-	2	Nike	-	-	1	245.0	20	-6378	?
HJ Nike T40	-	3	T-40	-	-	1	245.0	30	-6378	?
HJ Nike T40 T55	-	1	M-6	-	-	1	245.0	10	-6378	?
HJ Nike T40 T55	-	2	Nike	-	-	1	245.0	20	-6378	?
HJ Nike T40 T55	-	3	T-40	-	-	1	245.0	30	-6378	?
HJ Nike T40 T55	-	4	T-55	-	-	1	245.0	30	-6378	?
HJ Nike Tri-Deacon T40	-	1	M-6	-	-	1	245.0	10	-6378	?
HJ Nike Tri-Deacon T40	-	2	Nike	-	-	1	245.0	20	-6378	?
HJ Nike Tri-Deacon T40	-	3	Deacon	-	-	3	245.0	30	-6378	?
HJ Nike Tri-Deacon T40	-	4	T-40	-	-	1	245.0	30	-6378	?
HJ Nike Nike Recruit	-	1	M-6	-	-	1	245.0	20	-6364	?
HJ Nike Nike Recruit	-	2	Nike	-	-	1	245.0	30	-6338	?
HJ Nike Nike Recruit	-	3	Nike	-	-	1	245.0	35	-6300	?
HJ Nike Nike Recruit	-	4	Recruit	-	-	1	245.0	35	-6300	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
HJ Nike Nike Recruit T55	-	1	M-6	-	-	1	245.0	30	-6300	?
HJ Nike Nike Recruit T55	-	2	Nike	-	-	1	245.0	30	-6300	?
HJ Nike Nike Recruit T55	-	3	Nike	-	-	1	245.0	30	-6300	?
HJ Nike Nike Recruit T55	-	4	Recruit	-	-	1	245.0	30	-6300	?
HJ Nike Nike Recruit T55	-	5	T-55	-	-	1	245.0	30	-6300	?
HJ PRV	-	1	M-6	-	-	1	245.0	10	-6370	?
HJ PRV	-	2	Nike	-	-	1	245.0	23	-6362	?
HJ PRV	-	3	Skat	-	-	1	245.0	34	-6157	?
HJ PRV	-	4	Recruit	-	-	1	245.0	64	-5738	?
Jason	-	1	M-6	-	-	1	245.0	5	-6370	?
Jason	-	2	Nike	-	-	1	245.0	14	-6370	?
Jason	-	3	Nike	-	-	1	245.0	50	-6300	?
Jason	-	4	Recruit	-	-	1	245.0	200	-6250	?
Jason	-	5	T-55	-	-	1	245.0	800	-6200	?
X-7A-1	-	1	X-7A-1 Booster	-	-	1	245.0	0	-6378	?
X-7A-1	-	2	X-7	-	-	1	245.0	30	-6378	?
Fateh-110	-	1	Fateh-110	-	-	1	245.0	60	-6378	?
Fateh-360	-	1	Fateh-360	-	-	1	245.0	60	-6378	?
M-600	-	1	Fateh-110	-	-	1	245.0	60	-6378	?
Zelzal	-	1	Zelzal	-	-	1	245.0	60	-6378	?
Zelzal-1	-	1	Zelzal	-	-	1	245.0	60	-6378	?
Zelzal-2	-	1	Zelzal	-	-	1	245.0	60	-6378	?
Zelzal-3	-	1	Zelzal	-	-	1	245.0	60	-6378	?
Kavoshgar K110	-	1	Zelzal	-	-	1	245.0	60	-6378	?
Lance	-	1	Lance Missile	-	-	1	245.0	45	-6378	?
Sonda 3	-	1	Sonda 3-1	-	-	1	245.0	50	-6370	?
Sonda 3	-	2	Sonda 2A	-	-	1	245.0	500	-6300	?
Sonda 3	M1	1	Sonda 3-1	-	-	1	245.0	50	-6370	?
Sonda 3	M1	2	Sonda 2M	-	-	1	245.0	500	-6300	?
Sonda 3	M2	1	Sonda 3-1	-	-	1	245.0	50	-6370	?
Sonda 3	M2	2	Sonda 2M	-	-	1	245.0	500	-6300	?
VS-30	-	1	Sonda 3-1	-	-	1	245.0	120	-6370	?
VSB-30	-	1	S31	-	-	1	245.0	20	-6378	?
VSB-30	-	2	Sonda 3-1	-	-	1	245.0	100	-6370	?
S31/S30/IO	-	1	S31	-	-	1	245.0	20	-6378	?
S31/S30/IO	-	2	Sonda 3-1	-	-	1	245.0	100	-6370	?
S31/S30/IO	-	3	Improved Orion	-	-	1	245.0	400	-6300	?
VS-30/Orion	-	1	Sonda 3-1	-	-	1	245.0	120	-6370	?
VS-30/Orion	-	2	Improved Orion	-	-	1	245.0	400	-6300	?
VS-31/Orion	-	1	S31	-	-	1	245.0	20	-6378	?
VS-31/Orion	-	2	Improved Orion	-	-	1	245.0	400	-6300	?
VS-31/IM	-	1	S31	-	-	1	245.0	20	-6378	?
VS-31/IM	-	2	Imp Malemute	-	-	1	245.0	400	-6300	?
Red Kite	-	1	Red Kite	-	-	1	245.0	70	-6378	?
Red Kite/IM	-	1	Red Kite	-	-	1	245.0	70	-6378	?
Red Kite/IM	-	2	Imp Malemute	-	-	1	245.0	400	-6300	?
ATV	-	1	RH-ATV	-	-	1	245.0	60	-6370	?
ATV	-	2	RH-ATV	-	-	1	245.0	400	-6370	?
RH-560/300 Mk II	-	1	RH-560	-	-	1	245.0	60	-6370	?
RH-560/300 Mk II	-	2	RH-300 Mk II	-	-	1	245.0	420	-6300	?
RH-560 Mk III	-	1	RH-560 Mk III	-	-	1	245.0	60	-6370	?
RH-560 Mk III	-	2	RH-300 Mk II	-	-	1	245.0	420	-6300	?
RH-560S	-	1	RH-560S	-	-	1	245.0	100	-6370	?
RH-560	-	1	RH-560	-	-	1	245.0	60	-6370	?
RH-560	-	2	Belier	-	-	1	245.0	320	-6300	?
RH-560/LPR-3T	-	1	RH-560	-	-	1	245.0	20	-6378	?
RH-560/LPR-3T	-	2	LPR-3T	-	-	1	245.0	20	-6378	?
Berenice	-	1	BER	-	-	1	245.0	8	-6370	?
Berenice	-	2	Berenice St2	-	-	1	245.0	250	-6300	?
Berenice	-	3	Tramontane	-	-	1	245.0	250	-6300	?
Berenice	-	4	Melanie	-	-	1	245.0	250	-6300	?
Titus	-	1	BER	-	-	1	245.0	20	-6370	?
Titus	-	2	Berenice St2	-	-	1	245.0	250	-6300	?
Tibere	-	1	BER	-	-	1	245.0	20	-6370	?
Tibere	-	2	Tacite	-	-	1	245.0	150	-6300	?
Tibere	-	3	P064	-	-	1	245.0	150	-5000	?
Tacite	-	1	Tacite	-	-	1	245.0	140	-6370	?
OPd-56-39-22D	-	1	Vesuve	-	-	1	245.0	20	-6370	?
OPd-56-39-22D	-	2	Neptune	-	-	1	245.0	50	-6350	?
OPd-56-39-22D	-	3	Mimosa	-	-	1	245.0	150	-6300	?
OPd-56-39-22D	-	4	Melanie	-	-	1	245.0	150	-6100	?
Antares	-	1	Vesuve	-	-	1	245.0	20	-6370	?
Antares	-	2	Neptune	-	-	1	245.0	50	-6350	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Antares	-	3	Mimosa	-	-	1	245.0	150	-6300	?
Antares	-	4	Melanie	-	-	1	245.0	150	-6100	?
Dragon	-	1	Stromboli	-	-	1	245.0	30	-6370	?
Dragon	-	2	Belier	-	-	1	245.0	400	-6300	?
Dragon 2B	-	1	Stromboli	-	-	1	245.0	30	-6370	?
Dragon 2B	-	2	Belier II	-	-	1	245.0	400	-6300	?
Dragon 3	-	1	Stromboli	-	-	1	245.0	30	-6370	?
Dragon 3	-	2	Belier III	-	-	1	245.0	400	-6300	?
Hatf I	-	1	Hatf I	-	-	1	245.0	50	-6370	?
Dauphin	-	1	Stromboli	-	-	1	245.0	110	-6370	?
Eridan	-	1	Stromboli	-	-	1	245.0	50	-6370	?
Eridan	-	2	Stromboli	-	-	1	245.0	400	-6370	?
Hatf II	-	1	Hatf I	-	-	1	245.0	50	-6370	?
Hatf II	-	2	Hatf I	-	-	1	245.0	250	-6370	?
SE4400	-	1	SEPR-732	-	-	1	245.0	60	-6378	?
VE10A Aigle	-	1	Aigle	-	-	1	245.0	20	-6378	?
VE10 Aigle	-	1	Aigle	-	-	1	245.0	20	-6378	?
Stataltex	-	1	Stromboli	-	-	1	245.0	20	-6378	?
Vega Statoreacteur	-	1	Vesuve	-	-	1	245.0	20	-6378	?
Veronique R	-	1	Veronique R	-	-	1	245.0	2	-6378	?
Veronique	-	1	Veronique	-	-	1	245.0	150	-6300	?
Veronique AGI	-	1	Veronique AGI	-	-	1	245.0	150	-6300	?
Veronique 61	-	1	Veronique 61	-	-	1	245.0	200	-6300	?
Veronique 61M	-	1	Veronique 61M	-	-	1	245.0	200	-6300	?
Veronique P2	-	1	Veronique P2	-	-	1	245.0	2	-6378	?
Veronique P6	-	1	Veronique P6	-	-	1	245.0	2	-6378	?
Sounding Rocket	-	1	NSPO Booster	-	-	1	245.0	10	-6370	?
Sounding Rocket	-	2	NSPO Stage 2	-	-	1	245.0	200	-6370	?
Luna-M	-	1	Luna-M	-	-	1	245.0	70	-6378	?
SM-3	-	1	Mk 72	-	-	1	245.0	10	-6370	?
SM-3	-	2	Mk 104	-	-	1	245.0	50	-6350	?
SM-3	-	3	ASAS	-	-	1	245.0	150	-6300	?
SM-3-IB	-	1	Mk 72	-	-	1	245.0	10	-6370	?
SM-3-IB	-	2	Mk 104	-	-	1	245.0	50	-6350	?
SM-3-IB	-	3	ASAS XL	-	-	1	245.0	150	-6300	?
SM-3-IIA	-	1	Mk 72	-	-	1	245.0	10	-6370	?
SM-3-IIA	-	2	SM-3-II-2	-	-	1	245.0	50	-6350	?
SM-3-IIA	-	3	SM-3-II-3	-	-	1	245.0	150	-6300	?
SM-2-IV	-	1	Mk 72	-	-	1	245.0	10	-6370	?
SM-2-IV	-	2	Mk 104	-	-	1	245.0	50	-6350	?
SM-6	-	1	Mk 72	-	-	1	245.0	10	-6370	?
SM-6	-	2	Mk 104	-	-	1	245.0	50	-6350	?
Hades	-	1	Hades	-	-	1	245.0	150	-6370	?
Black Sparrow	-	0	F-15D	-	-	1	245.0	10	-6378	?
Black Sparrow	-	1	Black Sparrow	-	-	1	245.0	40	-6378	?
Blue Sparrow	-	0	F-15D	-	-	1	245.0	10	-6378	?
Blue Sparrow	-	1	Blue Sparrow	-	-	1	245.0	100	-6378	?
Silver Sparrow	-	0	F-15D	-	-	1	245.0	10	-6378	?
Silver Sparrow	-	1	Silver Sparrow	-	-	1	245.0	100	-6378	?
Al Samoud	-	1	Al Samoud	-	-	1	245.0	50	-6378	?
Al Fatah	-	1	Al Fatah	-	-	1	245.0	100	-6378	?
Cedre 3	-	1	Cedre St1	-	-	1	245.0	10	-6378	?
Cedre 3	-	2	Cedre St2	-	-	1	245.0	10	-6378	?
Cedre 3	-	3	Cedre St3	-	-	1	245.0	200	-6378	?
Cedre 4	-	1	Cedre-4 St1	-	-	1	245.0	10	-6378	?
Cedre 4	-	2	Cedre St2	-	-	1	245.0	10	-6378	?
Cedre 4	-	3	Cedre St3	-	-	1	245.0	200	-6378	?
S-520	-	1	S-520	-	-	1	245.0	300	-6200	?
SS-520	-	1	S-520	-	-	1	245.0	50	-6378	?
SS-520	-	2	SS-520 St 2	-	-	1	245.0	1000	-6373	?
SS-520	4	1	S-520	-	-	1	245.0	50	-6378	?
SS-520	4	2	SS-520 St 2	-	-	1	245.0	1000	-6373	?
SS-520	4	3	SS-520 St 3	-	-	1	245.0	1000	180	?
TT-500	-	1	TT-500	-	-	1	245.0	70	-6370	?
TT-500	-	2	TT-500-S2	-	-	1	245.0	300	-6300	?
TT-500A	-	1	TT-500	-	-	1	245.0	70	-6370	?
TT-500A	-	2	TT-500-S2	-	-	1	245.0	300	-6300	?
48N6	-	1	48N6	-	-	1	245.0	40	-6378	?
JCR	-	1	JCR Booster	-	-	1	245.0	10	-6370	?
JCR	-	2	JCR	-	-	1	245.0	200	-6370	?
Momo	-	1	Momo	-	-	1	245.0	100	-6378	?
Momo	6	1	Momo 6	-	-	1	245.0	100	-6378	?
Hydra Sandhawk	-	1	NOTS 401A	-	-	1	245.0	20	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Hydra Sandhawk	-	2	Sandhawk	-	-	1	245.0	250	-6300	?
STIG-B	-	1	STIG-B	-	-	1	245.0	80	-6378	?
SARGE	-	1	SARGE	-	-	1	245.0	100	-6378	?
K-15	-	1	K-15 Booster	-	-	1	245.0	5	-6378	?
K-15	-	2	K-15 Stage 2	-	-	1	245.0	200	-6300	?
E-8-5 VA	-	1	E-8-5 VA	-	-	1	245.0	0	0	?
Long Tom	-	1	Long Tom	-	-	1	245.0	30	-6378	?
Long Tom	-	2	Mayfly	-	-	1	245.0	100	-6378	?
Long Tom	1	1	Gosling	-	-	1	245.0	30	-6378	?
Long Tom	1	2	Mayfly	-	-	1	245.0	100	-6378	?
HAT	-	1	HAT	-	-	1	245.0	10	-6370	?
HAT	-	2	LAPSTAR	-	-	1	245.0	80	-6370	?
Nike T48 Ajax	-	1	T48	-	-	1	245.0	5	-6370	?
Nike T48 Ajax	-	2	Nike-490 Sustainer	-	-	1	245.0	40	-6370	?
SM-2	-	1	Terrier Mk 70	-	-	1	245.0	10	-6378	?
SM-2	-	2	Mk 30	-	-	1	245.0	20	-6370	?
SM-1ER	-	1	Terrier Mk 12	-	-	1	245.0	10	-6378	?
SM-1ER	-	2	Mk 30	-	-	1	245.0	20	-6378	?
Hugo	-	1	Terrier	-	-	1	245.0	5	-6378	?
Hugo	-	2	Cajun	-	-	1	245.0	100	-6378	?
Terrier Sandhawk	-	1	Terrier	-	-	1	245.0	10	-6378	?
Terrier Sandhawk	-	2	Sandhawk	-	-	1	245.0	400	-6370	?
ARAV-ER	-	1	Terrier Mk 70	-	-	1	245.0	10	-6378	?
ARAV-ER	-	2	Oriole	-	-	1	245.0	368	-6378	?
ARAV-ER	-	3	Star 20	-	-	1	245.0	368	-6378	?
Oriole II	-	1	Terrier	-	-	1	245.0	10	-6378	?
Oriole II	-	2	Oriole	-	-	1	245.0	368	-6378	?
Terrier Oriole	-	1	Terrier	-	-	1	245.0	10	-6378	?
Terrier Oriole	-	2	Oriole	-	-	1	245.0	368	-6378	?
Terrier Oriole Oriole	-	1	Terrier	-	-	1	245.0	10	-6378	?
Terrier Oriole Oriole	-	2	Oriole	-	-	1	245.0	368	-6378	?
Terrier Oriole Oriole	-	3	Oriole	-	-	1	245.0	368	-6378	?
Oriole IIIA	-	1	Terrier	-	-	1	245.0	12	-6378	?
Oriole IIIA	-	2	Oriole	-	-	1	245.0	300	-6378	?
Oriole IIIA	-	3	Nihka	-	-	1	245.0	800	-6378	?
Terrier Terrier Oriole	-	1	Terrier	-	-	1	245.0	10	-6378	?
Terrier Terrier Oriole	-	2	Terrier	-	-	1	245.0	10	-6378	?
Terrier Terrier Oriole	-	3	Oriole	-	-	1	245.0	368	-6378	?
MRBM T4-E	-	1	Terrier Mk 70	-	-	1	245.0	10	-6378	?
MRBM T4-E	-	2	Terrier Mk 70	-	-	1	245.0	10	-6378	?
MRBM T4-E	-	3	Oriole	-	-	1	245.0	368	-6378	?
Terrier Mk 70 Oriole	-	1	Terrier Mk 70	-	-	1	245.0	10	-6378	?
Terrier Mk 70 Oriole	-	2	Oriole	-	-	1	245.0	368	-6378	?
SRBM T4-B	-	1	Terrier Mk 70	-	-	1	245.0	10	-6370	?
SRBM T4-B	-	2	Oriole	-	-	1	245.0	200	-6370	?
Terrier	-	1	Terrier	-	-	1	245.0	10	-6378	?
Terrier Mk 70 Peregrine	-	1	Terrier Mk 70	-	-	1	245.0	12	-6378	?
Terrier Mk 70 Peregrine	-	2	Peregrine	-	-	1	245.0	300	-6378	?
Terrier Malemute	-	1	Terrier	-	-	1	1133.0	10	-6378	?
Terrier Malemute	-	2	Malemute	-	-	1	1210.0	500	-6370	?
Terrier Imp Malemute	-	1	Terrier	-	-	1	1133.0	10	-6378	?
Terrier Imp Malemute	-	2	Imp Malemute	-	-	1	1210.0	500	-6370	?
Terrier Imp Malemute	2	1	Terrier Mk 70	-	-	1	1133.0	10	-6378	?
Terrier Imp Malemute	2	2	Imp Malemute	-	-	1	1210.0	500	-6370	?
Terrier Imp Malemute	1	1	Terrier	-	-	1	1133.0	10	-6378	?
Terrier Imp Malemute	1	2	Imp Malemute	-	-	1	1210.0	500	-6370	?
Terrier Terrier Imp Mal.	-	1	Terrier	-	-	1	1133.0	1	-6378	?
Terrier Terrier Imp Mal.	-	2	Terrier	-	-	1	1133.0	10	-6378	?
Terrier Terrier Imp Mal.	-	3	Imp Malemute	-	-	1	1210.0	500	-6370	?
Terrier/551	-	1	Terrier	-	-	1	1210.0	5	-6378	?
Terrier/551	-	2	NOTS 551	-	-	1	1210.0	400	-6378	?
Terrier LEAP	-	1	Terrier Mk 70	-	-	1	1210.0	10	-6378	?
Terrier LEAP	-	2	Mk 30	-	-	1	1210.0	30	-6378	?
Terrier LEAP	-	3	ASAS	-	-	1	1210.0	30	-6378	?
Terrier ASAS	-	1	Terrier Mk 70	-	-	1	1210.0	10	-6378	?
Terrier ASAS	-	2	ASAS XL	-	-	1	1210.0	30	-6378	?
Terrier Hydac	-	1	Terrier	-	-	1	1210.0	10	-6370	?
Terrier Hydac	-	2	Hydac	-	-	1	1210.0	400	-6300	?
Terrier Nike	-	1	Terrier	-	-	1	1210.0	1	-6378	?
Terrier Nike	-	2	Nike	-	-	1	1210.0	2	-6378	?
Terrier Asp IV	-	1	Terrier	-	-	1	1210.0	20	-6378	?
Terrier Asp IV	-	2	Asp IV	-	-	1	1210.0	150	-6370	?
Terrier Asp	-	1	Terrier	-	-	1	1210.0	20	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Terrier Asp	-	2	Asp	-	-	1	1210.0	100	-6370	?
Terrier Orion	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier Orion	-	2	Orion	-	-	1	1210.0	150	-6370	?
Terrier Mk 70 Orion	-	1	Terrier Mk 70	-	-	1	1210.0	10	-6378	?
Terrier Mk 70 Orion	-	2	Improved Orion	-	-	1	1210.0	200	-6370	?
Terrier Improved Orion	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier Improved Orion	-	2	Improved Orion	-	-	1	1210.0	200	-6370	?
Terrier Mk 12 Imp Orion	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier Mk 12 Imp Orion	-	2	Improved Orion	-	-	1	1210.0	200	-6370	?
Terrier Mk 70 Imp Orion	-	1	Terrier Mk 70	-	-	1	1210.0	10	-6378	?
Terrier Mk 70 Imp Orion	-	2	Improved Orion	-	-	1	1210.0	200	-6370	?
Terrier Tomahawk	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier Tomahawk	-	2	Tomahawk	-	-	1	1210.0	400	-6370	?
Black Dagger	-	1	Terrier Mk 70	-	-	1	1210.0	12	-6378	?
Black Dagger	-	2	Sabre Zombie	-	-	1	1210.0	120	-6300	?
Boosted Zombie	-	1	Terrier Mk 70	-	-	1	1210.0	12	-6378	?
Boosted Zombie	-	2	Sabre Zombie	-	-	1	1210.0	120	-6300	?
Terrier Lynx	-	1	Terrier	-	-	1	1210.0	20	-6378	?
Terrier Lynx	-	2	Lynx	-	-	1	1210.0	300	-6370	?
Terrier ASROC Cajun	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier ASROC Cajun	-	2	ASROC	-	-	1	1210.0	30	-6378	?
Terrier ASROC Cajun	-	3	Cajun	-	-	1	1210.0	100	-6370	?
Terrier Recruit	-	1	Terrier	-	-	1	1210.0	10	-6378	?
Terrier Recruit	-	2	Recruit	-	-	1	1210.0	10	-6378	?
Coyote	-	1	Terrier Mk 70	-	-	1	1210.0	1	-6378	?
STAR	-	1	Terrier Mk 70	-	-	1	1210.0	10	-6378	?
Black Brant IX	-	1	Terrier	-	-	1	1210.0	5	-6378	?
Black Brant IX	-	2	Black Brant VC	-	-	1	1210.0	350	-6350	?
Black Brant IX	2	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant IX	2	2	Black Brant Mk1	-	-	1	1210.0	350	-6350	?
Black Brant IXB	-	1	Terrier	-	-	1	1210.0	5	-6378	?
Black Brant IXB	-	2	Black Brant VB	-	-	1	1210.0	350	-6350	?
Black Brant IX	3	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant IX	3	2	Black Brant Mk3	-	-	1	1210.0	350	-6350	?
Black Brant IX	4	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant IX	4	2	Black Brant Mk4	-	-	1	1210.0	350	-6350	?
Black Brant 9BM1	-	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant 9BM1	-	2	Black Brant VB	-	-	1	1210.0	350	-6350	?
Black Brant 9CM1	-	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant 9CM1	-	2	Black Brant VC	-	-	1	1210.0	350	-6350	?
Black Brant X	-	1	Terrier	-	-	1	1210.0	5	-6378	?
Black Brant X	-	2	Black Brant VB	-	-	1	1210.0	250	-6360	?
Black Brant X	-	3	Nihka	-	-	1	1210.0	1000	-6300	?
Black Brant XB	-	1	Terrier	-	-	1	1210.0	5	-6378	?
Black Brant XB	-	2	Black Brant VB	-	-	1	1210.0	250	-6360	?
Black Brant XB	-	3	Nihka	-	-	1	1210.0	1000	-6300	?
Black Brant 10CM1	-	1	Terrier Mk 70	-	-	1	1210.0	5	-6378	?
Black Brant 10CM1	-	2	Black Brant VC	-	-	1	1210.0	250	-6360	?
Black Brant 10CM1	-	3	Nihka	-	-	1	1210.0	1000	-6300	?
SRAM	-	1	SRAM	-	-	1	1210.0	10	-6378	?
ASAT	-	1	ASAT	-	-	1	1210.0	70	-6370	?
ASAT	-	2	Star 20	-	-	1	1210.0	1000	-6300	?
Farside	-	1	Recruit	-	-	4	1210.0	20	-6370	?
Farside	-	2	Recruit	-	-	1	1210.0	50	-6370	?
Farside	-	3	Arrow II	-	-	4	1210.0	100	-6300	?
Farside	-	4	Arrow II	-	-	1	1210.0	5000	-6300	?
NATIV	-	1	RTV-A-3	-	-	1	1210.0	15	-6378	?
MR-12	-	1	MR-12	-	-	1	1210.0	170	-6370	?
MR-20	-	1	MR-20	-	-	1	1210.0	150	-6370	?
MR-25	-	1	M-250	-	-	1	1210.0	150	-6370	?
MR-30	-	1	MR-30	-	-	1	1210.0	300	-6370	?
MN-300	-	1	MR-30	-	-	1	1210.0	300	-6370	?
Tianying-3C	-	1	Tianying-3C	-	-	1	1210.0	200	-6378	?
Tianying-3E	-	1	Tianying-3C	-	-	1	1210.0	200	-6378	?
Tianying-3F	-	1	Tianying-3F Booster	-	-	1	1210.0	10	-6378	?
Tianying-3F	-	2	Tianying-3C	-	-	1	1210.0	320	-6378	?
Huayi-1	-	1	Tianying-3F Booster	-	-	1	1210.0	10	-6378	?
Huayi-1	-	2	Tianying-3C	-	-	1	1210.0	320	-6378	?
T-7	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?
T-7	-	1	T-7	-	-	1	1210.0	100	-6370	?
T-7A	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?
T-7A	-	1	T-7	-	-	1	1210.0	100	-6370	?
T-7A-S2	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
T-7A-S2	-	1	T-7	-	-	1	1210.0	100	-6370	?
T-7A-S	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?
T-7A-S	-	1	T-7	-	-	1	1210.0	100	-6370	?
T-7M	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?
T-7M	-	1	T-7	-	-	1	1210.0	100	-6370	?
T-7/GF-01A	-	0	T-7 booster	-	-	1	1210.0	10	-6378	?
T-7/GF-01A	-	1	T-7	-	-	1	1210.0	100	-6300	?
T-7/GF-01A	-	2	GF-01A	-	-	1	1210.0	300	-6200	?
Black Brant I	-	1	Black Brant I	-	-	1	1210.0	130	-6370	?
Black Brant II	-	1	Black Brant VA	-	-	1	1210.0	130	-6370	?
Black Brant IIB	-	1	Black Brant IIB	-	-	1	1210.0	130	-6370	?
Black Brant IVA	-	1	Black Brant VA	-	-	1	1210.0	100	-6370	?
Black Brant IVA	-	2	Black Brant IIIA	-	-	1	1210.0	800	-6350	?
Black Brant IVB	-	1	Black Brant VA	-	-	1	1210.0	100	-6370	?
Black Brant IVB	-	2	Black Brant IIIB	-	-	1	1210.0	800	-6350	?
Black Brant VA	-	1	Black Brant VA	-	-	1	1210.0	180	-6370	?
Black Brant VB	-	1	Black Brant VB	-	-	1	1210.0	180	-6370	?
Black Brant VC	-	1	Black Brant VC	-	-	1	1210.0	180	-6370	?
Black Brant 8B	-	1	Nike	-	-	1	1210.0	5	-6378	?
Black Brant 8B	-	2	Black Brant VB	-	-	1	1210.0	340	-6350	?
Black Brant 8C	-	1	Nike	-	-	1	1210.0	5	-6378	?
Black Brant 8C	-	2	Black Brant VC	-	-	1	1210.0	340	-6350	?
Skylark	1	1	Raven 1/1A/2A	-	-	1	1210.0	180	-6300	?
Skylark	2	1	Raven 2	-	-	1	1210.0	180	-6300	?
Skylark	5	1	Raven 5	-	-	1	1210.0	180	-6300	?
Skylark	7	1	Raven 7	-	-	1	1210.0	180	-6300	?
Skylark 1	-	1	Raven 8	-	-	1	1210.0	100	-6300	?
Skylark	2C	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark	2C	2	Raven 2	-	-	1	1210.0	180	-6300	?
Skylark	5C	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark	5C	2	Raven 5	-	-	1	1210.0	180	-6300	?
Skylark	7C	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark	7C	2	Raven 7	-	-	1	1210.0	180	-6300	?
Skylark 2	-	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark 2	-	2	Raven 8	-	-	1	1210.0	200	-6300	?
Skylark 2 AC	-	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark 2 AC	-	2	Raven 8	-	-	1	1210.0	200	-6300	?
Skylark 3	-	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark 3	-	2	Raven 6	-	-	1	1210.0	200	-6300	?
Skylark 3 AC	-	1	Cuckoo IA	-	-	1	1210.0	3	-6378	?
Skylark 3 AC	-	2	Raven 6	-	-	1	1210.0	260	-6300	?
Skylark 4	-	1	Goldfinch	-	-	1	1210.0	3	-6378	?
Skylark 4	-	2	Raven 8	-	-	1	1210.0	240	-6300	?
Skylark 4 AC	-	1	Goldfinch	-	-	1	1210.0	3	-6378	?
Skylark 4 AC	-	2	Raven 8	-	-	1	1210.0	240	-6300	?
Skylark 6	-	1	Goldfinch II	-	-	1	1210.0	3	-6378	?
Skylark 6	-	2	Raven 6	-	-	1	1210.0	240	-6300	?
Skylark 6 AC	-	1	Goldfinch II	-	-	1	1210.0	3	-6378	?
Skylark 6 AC	-	2	Raven 6	-	-	1	1210.0	240	-6300	?
Skylark 7	-	1	Goldfinch II	-	-	1	1210.0	3	-6378	?
Skylark 7	-	2	Raven 11	-	-	1	1210.0	240	-6300	?
Skylark 7 AC	-	1	Goldfinch II	-	-	1	1210.0	3	-6378	?
Skylark 7 AC	-	2	Raven 11	-	-	1	1210.0	240	-6300	?
Skylark 12	-	1	Goldfinch	-	-	1	1210.0	5	-6378	?
Skylark 12	-	2	Raven 11	-	-	1	1210.0	150	-6300	?
Skylark 12	-	3	Cuckoo 4	-	-	1	1210.0	800	-6000	?
Skylark 12 AC	-	1	Goldfinch II	-	-	1	1210.0	5	-6378	?
Skylark 12 AC	-	2	Raven 11	-	-	1	1210.0	150	-6300	?
Skylark 12 AC	-	3	Cuckoo 4	-	-	1	1210.0	800	-6000	?
Skylark 10A	-	1	Goldfinch	-	-	1	1210.0	5	-6378	?
Skylark 10A	-	2	Gosling 4T	-	-	1	1210.0	240	-6300	?
Jaguar 1	-	1	Rook II	-	-	1	1210.0	30	-6370	?
Jaguar 1	-	2	Gosling IIN	-	-	1	1210.0	30	-6370	?
Jaguar 1	-	3	Lobster I	-	-	1	1210.0	30	-6370	?
Jabiru	-	1	Rook IIIA	-	-	1	1210.0	30	-6370	?
Jabiru	-	2	Goldfinch II	-	-	1	1210.0	30	-6370	?
Jabiru	-	3	Gosling IV	-	-	1	1210.0	30	-6370	?
Jaguar 2	-	1	Rook IIIA	-	-	1	1210.0	30	-6370	?
Jaguar 2	-	2	Goldfinch II	-	-	1	1210.0	30	-6370	?
Jaguar 2	-	3	Gosling IV	-	-	1	1210.0	30	-6370	?
Jabiru 2	-	1	Rook IIIA	-	-	1	1210.0	30	-6370	?
Jabiru 2	-	2	Goldfinch II	-	-	1	1210.0	30	-6370	?
Jabiru 2	-	3	Gosling IV	-	-	1	1210.0	30	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Jabiru 3	-	1	Rook IIIA	-	-	1	1210.0	30	-6370	?
Jabiru 3	-	2	Rook IIIB	-	-	1	1210.0	30	-6370	?
Rook	-	1	Rook II	-	-	1	1210.0	20	-6378	?
Rook IIIA	-	1	Rook IIIA	-	-	1	1210.0	20	-6378	?
Leopard	-	1	Rook	-	-	1	1210.0	5	-6378	?
Leopard	-	2	Gosling	-	-	1	1210.0	20	-6378	?
Blue Water	-	1	Saluki B	-	-	1	1210.0	10	-6370	?
Blue Water	-	2	Saluki S	-	-	1	1210.0	10	-6370	?
PrSM	-	1	PrSM	-	-	1	1210.0	100	-6370	?
RX-420	-	1	RX-420	-	-	1	1210.0	70	-6370	?
Kappa 7	-	1	K420	-	-	1	1210.0	53	-6370	?
Kappa 8	-	1	K420	-	-	1	1210.0	50	-6370	?
Kappa 8	-	2	Kappa 8	-	-	1	1210.0	200	-6370	?
Kappa 9M	-	1	K420H	-	-	1	1210.0	60	-6370	?
Kappa 9M	-	2	K250	-	-	1	1210.0	250	-6370	?
Kappa 9L	-	1	K420	-	-	1	1210.0	50	-6378	?
Kappa 9L	-	2	Kappa 6	-	-	1	1210.0	100	-6378	?
Kappa 9L	-	3	K150	-	-	1	1210.0	350	-6378	?
Kappa 10	-	1	K420H	-	-	1	1210.0	30	-6378	?
Kappa 10	-	2	K420(1/3)	-	-	1	1210.0	250	-6300	?
Kappa 10C	-	1	K420H	-	-	1	1210.0	30	-6378	?
Kappa 10C	-	2	K420(1/3)	-	-	1	1210.0	300	-6300	?
Kappa 10S	-	1	K420H	-	-	1	1210.0	30	-6378	?
Kappa 10S	-	2	K420(1/3)	-	-	1	1210.0	250	-6300	?
Kappa 10S	-	3	K10S	-	-	1	1210.0	740	-6370	?
Nike	-	1	Nike	-	-	1	1210.0	10	-6378	?
Nike-480	-	1	X-201	-	-	1	1210.0	5	-6370	?
Nike-480	-	2	Nike-47 Sustainer	-	-	1	1210.0	40	-6370	?
Nike-482	-	1	X-201	-	-	1	1210.0	5	-6370	?
Nike-482	-	2	Nike-47 Sustainer	-	d	1	1210.0	40	-6370	?
Nike-484	-	1	X-201	-	-	1	1210.0	5	-6370	?
Nike-484	-	2	Nike-484 Sustainer	-	-	1	1210.0	40	-6370	?
Nike-490	-	1	X-201	-	-	1	1210.0	5	-6370	?
Nike-490	-	2	Nike-490 Sustainer	-	-	1	1210.0	40	-6370	?
Nike Ajax	-	1	Nike	-	-	1	1210.0	2	-6378	?
Nike Ajax	-	2	Ajax	-	-	1	1210.0	30	-6378	?
Nike X201 Ajax	-	1	X-201	-	-	1	1210.0	5	-6370	?
Nike X201 Ajax	-	2	Nike-490 Sustainer	-	-	1	1210.0	40	-6370	?
Nike Nike	-	1	Nike	-	-	1	1210.0	20	-6378	?
Nike Nike	-	2	Nike	-	-	1	1210.0	50	-6370	?
Nike Cree	-	1	Nike	-	-	1	1210.0	20	-6378	?
Nike Cree	-	2	Nike	-	-	1	1210.0	50	-6370	?
Nike Cree	-	3	Nike	-	-	1	1210.0	50	-6370	?
Nike Recruit	-	1	Nike	-	-	1	1210.0	5	-6378	?
Nike Recruit	-	2	Recruit	-	-	1	1210.0	10	-6378	?
Nike Tomahawk	-	1	Nike	-	-	1	665.0	28	-6364	?
Nike Tomahawk	-	2	Tomahawk	-	-	1	503.0	290	-6321	?
Nike Tomahawk	9	1	Nike	-	-	1	665.0	28	-6364	?
Nike Tomahawk	9	2	Tomahawk	-	-	1	503.0	290	-6321	?
Nike Tomahawk	12	1	Nike	-	-	1	665.0	28	-6364	?
Nike Tomahawk	12	2	Tomahawk	-	-	1	503.0	290	-6321	?
Nike Tomahawk	9a	1	Nike	-	-	1	665.0	28	-6364	?
Nike Tomahawk	9a	2	Tomahawk 1	-	-	1	503.0	290	-6321	?
Nike Deacon	-	1	Nike	-	-	1	503.0	20	-6378	?
Nike Deacon	-	2	Deacon	-	-	1	503.0	120	-6370	?
Nike Deacon	1	1	2.5-DS-59000	-	-	1	503.0	20	-6378	?
Nike Deacon	1	2	Deacon	-	-	1	503.0	120	-6370	?
Nike Nike HPAG	-	1	Nike	-	-	1	503.0	5	-6378	?
Nike Nike HPAG	-	2	Nike	-	-	1	503.0	10	-6378	?
Nike Nike HPAG	-	3	HPAG	-	-	1	503.0	10	-6378	?
Nike Nike T40	-	1	Nike	-	-	1	503.0	10	-6378	?
Nike Nike T40	-	2	Nike	-	-	1	503.0	25	-6378	?
Nike Nike T40	-	3	T-40	-	-	1	503.0	50	-6378	?
Nike T40 T55	-	1	Nike	-	-	1	503.0	5	-6378	?
Nike T40 T55	-	2	T-40	-	-	1	503.0	10	-6378	?
Nike T40 T55	-	3	T-55	-	-	1	503.0	10	-6378	?
Nike Nike T40 T55	-	1	Nike	-	-	1	503.0	15	-6378	?
Nike Nike T40 T55	-	2	Nike	-	-	1	503.0	40	-6378	?
Nike Nike T40 T55	-	3	T-40	-	-	1	503.0	100	-6370	?
Nike Nike T40 T55	-	4	T-55	-	-	1	503.0	352	-6370	?
Nike Nike Tri-Deacon T40	-	1	Nike	-	-	1	503.0	10	-6378	?
Nike Nike Tri-Deacon T40	-	2	Nike	-	-	1	503.0	18	-6378	?
Nike Nike Tri-Deacon T40	-	3	Deacon	-	-	3	503.0	18	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Nike Nike Tri-Deacon T40	-	4	T-40	-	-	1	503.0	18	-6378	?
Nike Nike Deacon	-	1	Nike	-	-	1	503.0	10	-6378	?
Nike Nike Deacon	-	2	Nike	-	-	1	503.0	13	-6378	?
Nike Nike Deacon	-	3	Deacon	-	-	1	503.0	13	-6378	?
Mach 5 TV	-	1	Nike	-	-	1	503.0	1	-6378	?
Mach 5 TV	-	2	XM-17	-	-	1	503.0	16	-6300	?
Nike Yardbird	-	1	Nike	-	-	1	503.0	24	-6378	?
Nike Yardbird	-	2	Yardbird	-	-	1	503.0	120	-6370	?
Nike Cajun	-	1	Nike	-	-	1	503.0	24	-6378	?
Nike Cajun	-	2	Cajun	-	-	1	503.0	120	-6370	?
Nike Nike Cajun	-	1	Nike	-	-	1	503.0	24	-6378	?
Nike Nike Cajun	-	2	Nike	-	-	1	503.0	24	-6378	?
Nike Nike Cajun	-	3	Cajun	-	-	1	503.0	120	-6370	?
Nike Apache	-	1	Nike	-	-	1	503.0	7	-6378	?
Nike Apache	-	2	Apache	-	-	1	503.0	110	-6300	?
Nike Orion	-	1	Nike	-	-	1	665.0	25	-6378	?
Nike Orion	-	2	Orion	-	-	1	416.0	140	-6370	?
Nike Improved Orion	-	1	Nike	-	-	1	665.0	25	-6378	?
Nike Improved Orion	-	2	Improved Orion	-	-	1	416.0	140	-6370	?
Nike Hawk	-	1	Nike	-	-	1	416.0	20	-6378	?
Nike Hawk	-	2	Hawk	-	-	1	416.0	162	-6370	?
Nike Malemute	-	1	Nike	-	-	1	665.0	20	-6378	?
Nike Malemute	-	2	Malemute	-	-	1	1210.0	500	-6370	?
Nike Asp	-	1	Nike	-	-	1	1210.0	24	-6378	?
Nike Asp	-	2	Asp IV	-	-	1	1210.0	200	-6370	?
Nike Hydac	-	1	Nike	-	-	1	1210.0	15	-6378	?
Nike Hydac	-	2	Hydac	-	-	1	1210.0	150	-6370	?
Nike Iroquois	-	1	Nike	-	-	1	1210.0	20	-6378	?
Nike Iroquois	-	2	Iroquois	-	-	1	188.0	200	-6370	?
Nike Javelin	-	1	Nike	-	-	1	188.0	20	-6378	?
Nike Javelin	-	2	Javelin 3	-	-	1	188.0	130	-6370	?
Nike Viper I	-	1	Nike	-	-	1	188.0	20	-6370	?
Nike Viper I	-	2	Viper I	-	-	1	188.0	80	-6360	?
Terrier Viper I	-	1	Terrier	-	-	1	188.0	20	-6370	?
Terrier Viper I	-	2	Viper IC	-	-	1	188.0	150	-6360	?
Nike Nike Recruit	-	1	Nike	-	-	1	188.0	5	-6378	?
Nike Nike Recruit	-	2	Nike	-	-	1	188.0	20	-6378	?
Nike Nike Recruit	-	3	Recruit	-	-	1	188.0	120	-6350	?
Aerobee 170A	-	1	Nike	-	-	1	188.0	10	-6370	?
Aerobee 170A	-	2	Aerobee 150	-	-	1	188.0	200	-6370	?
Aerobee 170B	-	1	Nike	-	-	1	188.0	10	-6370	?
Aerobee 170B	-	2	Aerobee 150	-	-	1	188.0	200	-6370	?
Aerobee 170	-	1	Nike	-	-	1	640.0	10	-6370	?
Aerobee 170	-	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 200A	-	1	Nike	-	-	1	928.0	10	-6370	?
Aerobee 200A	-	2	AJ60-92	-	-	1	928.0	250	-6370	?
Aerobee 200	-	1	Nike	-	-	1	928.0	10	-6370	?
Aerobee 200	-	2	AJ60-92	-	-	1	928.0	250	-6370	?
Aerobee 350	-	1	Nike	-	-	1	928.0	10	-6370	?
Aerobee 350	-	2	AJ60-91	-	-	1	928.0	300	-6370	?
Astrobee 200	-	1	Nike	-	-	1	928.0	20	-6370	?
Astrobee 200	-	2	Alcor	-	-	1	928.0	300	-6200	?
AAD	-	1	AAD	-	-	1	928.0	40	-6370	?
AAD AD-1	-	1	AAD	-	-	1	928.0	40	-6370	?
AAD AD-1	-	2	AAD St 2	-	-	1	928.0	150	-6370	?
Prahaar	-	1	AAD	-	-	1	928.0	40	-6370	?
KSR-I	-	1	KSR	-	-	1	928.0	40	-6370	?
KSR-II	-	1	KSR Booster	-	-	1	928.0	35	-6370	?
KSR-II	-	2	KSR	-	-	1	928.0	150	-6370	?
Aeolus	-	1	Aeolus Booster	-	-	1	928.0	5	-6370	?
Aeolus	-	2	Mayfly	-	-	1	928.0	80	-6370	?
Malemute	-	1	Malemute	-	-	1	928.0	150	-6370	?
Improved Malemute	-	1	Imp Malemute	-	-	1	928.0	120	-6300	?
PAAT	-	1	Malemute	-	-	1	928.0	50	-6370	?
IM/IO	-	1	Imp Malemute	-	-	1	928.0	10	-6300	?
IM/IO	-	2	Improved Orion	-	-	1	928.0	10	-6300	?
IM/IM	-	1	Imp Malemute	-	-	1	928.0	10	-6300	?
IM/IM	-	2	Imp Malemute	-	-	1	928.0	10	-6300	?
IM/VS-30	-	1	Imp Malemute	-	-	1	928.0	10	-6300	?
IM/VS-30	-	2	Sonda 3-1	-	-	2	928.0	250	-6300	?
Martlet 1	-	1	Martlet 1	-	-	1	928.0	100	-6370	?
Martlet 2	-	1	Martlet 2	-	-	1	928.0	100	-6370	?
Martlet 2C	-	1	Martlet 2	-	-	1	928.0	100	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Martlet 3A	-	1	Martlet 3A	-	-	1	928.0	100	-6370	?
Martlet 3B	-	1	Martlet 3B	-	-	1	928.0	100	-6370	?
Gun Projectile 16-inch	-	1	Gun Projectile 16	-	-	1	928.0	100	-6370	?
Zenit	-	1	Zenit	-	-	1	928.0	145	-6370	?
Zenit	C	0	Cuckoo IA	-	-	1	928.0	10	-6378	?
Zenit	C	1	Zenit	-	-	1	928.0	140	-6370	?
Daniel	-	1	SPRAN-50	-	-	1	928.0	10	-6378	?
Daniel	-	2	MD-620	-	-	1	928.0	50	-6378	?
Daniel	-	3	Melanie	-	-	1	928.0	130	-6370	?
Doorknob	1	1	Lacrosse	-	-	1	928.0	24	-6378	?
Doorknob	2	1	Lacrosse	-	-	1	928.0	20	-6378	?
Doorknob	2	2	Lacrosse	-	-	1	928.0	83	-6378	?
Nike-46	-	1	Nike-46	-	-	1	928.0	5	-6370	?
Nike-46	-	2	Nike-46 Sustainer	-	-	1	928.0	40	-6370	?
Nike-47	-	1	Nike-47	-	-	1	928.0	5	-6370	?
Nike-47	-	2	Nike-47 Sustainer	-	-	1	928.0	40	-6370	?
Nike-481	-	1	Nike-46	-	-	1	928.0	5	-6370	?
Nike-481	-	2	Nike-47 Sustainer	-	-	1	928.0	40	-6370	?
Tien Kung 3	-	1	Tien Kung 3	-	-	1	928.0	40	-6370	?
KN-25	-	1	KN-25	-	-	1	928.0	100	-6300	?
STIG-A	-	1	STIG-A	-	-	1	928.0	80	-6378	?
ISRO-CES	-	1	ISRO-CES	-	-	1	928.0	10	-6378	?
Weka	-	1	Weka	-	-	1	928.0	140	-6378	?
K-200	-	1	Weka	-	-	1	928.0	140	-6378	?
Astrobee F	-	1	Astrobee F	-	-	1	928.0	250	-6370	?
Astrobee 500	-	1	Genie	-	-	1	928.0	0	-6378	?
Astrobee 500	-	2	Alcor	-	-	1	928.0	0	-6378	?
Astrobee 500	-	3	Asp	-	-	1	928.0	0	-6378	?
Paiute Tomahawk	-	1	Paiute	-	-	1	928.0	20	-6378	?
Paiute Tomahawk	-	2	Tomahawk	-	-	1	928.0	200	-6370	?
Ute Tomahawk	-	1	Ute	-	-	1	928.0	10	-6378	?
Ute Tomahawk	-	2	Tomahawk	-	-	1	928.0	200	-6300	?
Paiute Apache	-	1	Paiute	-	-	1	928.0	20	-6378	?
Paiute Apache	-	2	Apache	-	-	1	928.0	200	-6370	?
Ute Apache	-	1	Ute	-	-	1	928.0	10	-6378	?
Ute Apache	-	2	Apache	-	-	1	928.0	200	-6300	?
ALARR	-	0	F4D Phantom	-	-	1	928.0	0	-6378	?
ALARR	-	1	Genie-Alarr	-	-	1	928.0	100	-6300	?
Genie	-	1	Genie	-	-	1	928.0	10	-6300	?
Genie Genie	-	1	Genie	-	-	1	928.0	10	-6300	?
Genie Genie	-	2	Genie	-	-	1	928.0	10	-6300	?
F89J/Genie	-	0	F89J Scorpion	-	-	1	928.0	10	-6378	?
F89J/Genie	-	1	Genie	-	-	1	928.0	10	-6378	?
Jaguar	-	0	B-57A Canberra	-	-	1	928.0	10	-6378	?
Jaguar	-	1	Recruit	-	-	3	928.0	20	-6300	?
Jaguar	-	2	Recruit	-	-	1	928.0	100	-6300	?
Jaguar	-	3	Baby Sergeant	-	-	1	928.0	800	-6300	?
Aerobee RTV-A-1a	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-A-1a	-	2	Aerobee AJ10-25	-	-	1	928.0	150	-6370	?
Aerobee RTV-A-1	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-A-1	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee RTV-A-1b	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-A-1b	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee RTV-A-1c	-	1	Aerobee AJ10-25	-	-	1	928.0	150	-6370	?
Aerobee RTV-N-10a	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-N-10a	-	2	Aerobee AJ10-25	-	-	1	928.0	150	-6370	?
Aerobee RTV-N-10	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-N-10	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee RTV-N-10b	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-N-10b	-	2	Aerobee AJ10-24	-	-	1	928.0	150	-6370	?
Aerobee RTV-N-10c	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-N-10c	-	2	Aerobee AJ10-34	-	-	1	928.0	150	-6370	?
Aerobee RTV-N-8	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee RTV-N-8	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee XASR-SC-1	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee XASR-SC-1	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee XASR-SC-2	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee XASR-SC-2	-	2	Aerobee XASR-1	-	-	1	928.0	150	-6370	?
Aerobee AJ10-25	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee AJ10-25	-	2	Aerobee AJ10-25	-	-	1	928.0	150	-6370	?
Aerobee AJ10-27	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee AJ10-27	-	2	Aerobee AJ10-27	-	-	1	928.0	150	-6370	?
Aerobee AJ10-34	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Aerobee AJ10-34	-	2	Aerobee AJ10-34	-	-	1	928.0	150	-6370	?
Aerobee 100	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee 100	-	2	Aerobee 100	-	-	1	928.0	90	-6370	?
Seabee	-	1	Aerobee 100	-	-	1	928.0	1	-6370	?
Aerobee	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee	-	2	Aerobee 150	-	-	1	928.0	100	-6370	?
Aerobee Hi	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee Hi	-	2	Aerobee 150	-	-	1	928.0	150	-6370	?
Aerobee 150	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee 150	-	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 150A	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee 150A	-	2	Aerobee 150A	-	-	1	928.0	200	-6370	?
Aerobee 150 MI	-	1	VAM Booster	-	-	1	928.0	10	-6370	?
Aerobee 150 MI	-	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 150 MI	20	1	VAM-20	-	-	1	928.0	10	-6370	?
Aerobee 150 MI	20	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 150 MI	17	1	VAM-17	-	-	1	928.0	10	-6370	?
Aerobee 150 MI	17	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 150A MII	-	1	VAM Booster	-	-	1	928.0	10	-6370	?
Aerobee 150A MII	-	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 150 MII	20	1	VAM-20	-	-	1	928.0	10	-6370	?
Aerobee 150 MII	20	2	Aerobee 150	-	-	1	928.0	200	-6370	?
Aerobee 300	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee 300	-	2	Aerobee 150	-	-	1	928.0	150	-6370	?
Aerobee 300	-	3	Sparrow	-	-	1	928.0	300	-6370	?
Aerobee 300A	-	1	Aerobee Booster	-	-	1	928.0	10	-6370	?
Aerobee 300A	-	2	Aerobee 150	-	-	1	928.0	150	-6370	?
Aerobee 300A	-	3	Sparrow	-	-	1	928.0	340	-6370	?
Vikram-S	-	1	Vikram-S	-	-	1	928.0	100	-6378	?
Kavoshgar M5	-	1	Kavoshgar	-	-	1	928.0	15	-6370	?
Nazeat 6H	-	1	Nazeat	-	-	1	928.0	60	-6378	?
Nucleus	-	1	Nucleus	-	-	1	928.0	110	-6378	?
LS-A	-	1	LS-A Booster	-	-	1	928.0	5	-6378	?
LS-A	-	2	LS-A	-	-	1	928.0	150	-6370	?
Meteor-2H	-	1	Meteor-2	-	-	1	928.0	68	-6378	?
Meteor-2K	-	0	Meteor SRB	-	-	2	928.0	5	-6378	?
Meteor-2K	-	1	Meteor-2	-	-	1	928.0	90	-6370	?
Aerobee 75	-	1	Aerobee 75	-	-	1	928.0	60	-6370	?
Improved Orion	-	1	Improved Orion	-	-	1	928.0	88	-6370	?
Orion	-	1	Orion	-	-	1	928.0	88	-6370	?
Polaris FTV-4	-	1	10KS2500	-	-	1	928.0	10	-6378	?
Iraqi Gun Projectile	-	1	Iraqi Gun Projectile	-	-	1	928.0	100	-6370	?
THAAD	-	1	THAAD Proto	-	-	1	928.0	100	-6050	?
THAAD	1	1	THAAD	-	-	1	928.0	100	-6050	?
SM-1MR	-	1	Mk 56	-	-	1	928.0	20	-6378	?
SM-2MR	-	1	Mk 104	-	-	1	928.0	20	-6370	?
Lynx	-	1	Lynx	-	-	1	928.0	10	-6378	?
Kappa 4	-	1	Kappa 4 Booster	-	-	1	928.0	5	-6378	?
Kappa 4	-	2	Kappa 4	-	-	1	928.0	40	-6378	?
Kappa 5	-	1	Kappa 6	-	-	1	928.0	5	-6378	?
Kappa 5	-	2	K150	-	-	1	928.0	15	-6378	?
Sandhawk	-	1	Sandhawk	-	-	1	928.0	100	-6378	?
Sandhawk Tomahawk	-	1	Sandhawk	-	-	1	928.0	50	-6378	?
Sandhawk Tomahawk	-	2	Tomahawk	-	-	1	928.0	500	-6378	?
Gradicom 1	-	1	Gradicom 1	-	-	1	928.0	40	-6378	?
Gradicom 2	-	1	Gradicom 2	-	-	1	928.0	10	-6378	?
Gradicom 2	-	2	Gradicom 1	-	-	1	928.0	100	-6378	?
RX-320	-	1	RX-320	-	-	1	928.0	70	-6370	?
BT-310	-	1	BT-310	-	-	1	928.0	1	-6378	?
S-310	-	1	S-310	-	-	1	928.0	200	-6370	?
Belier	-	1	Belier	-	-	1	928.0	60	-6300	?
Belier III	-	1	Belier III	-	-	1	928.0	120	-6300	?
RH-300	-	1	RH-300	-	-	1	928.0	100	-6370	?
RH-300 Mk II	-	1	RH-300 Mk II	-	-	1	928.0	135	-6370	?
SO-300-200	-	0	RH-200	-	-	2	928.0	10	-6370	?
SO-300-200	-	1	RH-300	-	-	1	928.0	50	-6370	?
Iris	-	0	MARC 14B1	-	-	1	928.0	1	-6378	?
Iris	-	1	Iris	-	-	1	928.0	200	-6300	?
Hydra-Iris	-	0	MR-1	-	-	1	928.0	3	-6378	?
Hydra-Iris	-	1	Iris	-	-	1	928.0	200	-6378	?
S-300	-	1	S-300	-	-	1	928.0	160	-6370	?
Bullpup Apache	-	1	Bullpup	-	-	1	928.0	2	-6378	?
Bullpup Apache	-	2	Apache	-	-	1	928.0	41	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Bullpup Cajun	-	1	Bullpup	-	-	1	928.0	2	-6378	?
Bullpup Cajun	-	2	Cajun	-	-	1	928.0	50	-6378	?
FTI	-	1	FTI	-	-	1	928.0	60	-6378	?
WAC A	-	0	Tiny Tim	-	-	1	928.0	2	-6378	?
WAC A	-	1	WAC Corporal	-	-	1	928.0	40	-6378	?
WAC B	-	0	Tiny Tim	-	-	1	928.0	2	-6378	?
WAC B	-	1	WAC Corporal	-	-	1	928.0	40	-6378	?
WAC	-	0	Tiny Tim	-	-	1	928.0	2	-6378	?
WAC	-	1	WAC Corporal	-	d	1	928.0	2	-6378	?
Tiny Tim	-	1	Tiny Tim	-	-	1	928.0	1	-6378	?
Sonda 2	-	1	Sonda 2A	-	-	1	928.0	100	-6370	?
VLS-R2	-	0	VLS-R2 Strapon	-	-	4	928.0	10	-6370	?
VLS-R2	-	1	VLS-R2	-	-	1	928.0	50	-6370	?
Centaure	-	1	Venus	-	-	1	928.0	10	-6300	?
Centaure	-	2	Belier	-	-	1	928.0	150	-6300	?
Centaure 1	-	1	Venus	-	-	1	928.0	10	-6300	?
Centaure 1	-	2	Belier	-	-	1	928.0	150	-6300	?
Centaure 2A	-	1	Venus	-	-	1	928.0	10	-6300	?
Centaure 2A	-	2	Belier II	-	-	1	928.0	150	-6300	?
Centaure 2B	-	1	Venus	-	-	1	928.0	10	-6300	?
Centaure 2B	-	2	Belier II	-	-	1	928.0	150	-6300	?
Centaure 2C	-	1	Venus	-	-	1	928.0	10	-6300	?
Centaure 2C	-	2	Belier II	-	-	1	928.0	150	-6300	?
RH-300B	-	1	RH-300 Booster	-	-	1	928.0	10	-6300	?
RH-300B	-	2	RH-300	-	-	1	928.0	150	-6300	?
Tauro	-	1	SS-50	-	-	1	928.0	10	-6350	?
Tauro	-	2	Canopus	-	-	1	928.0	150	-6350	?
Rigel	-	1	Canopus	-	-	1	928.0	70	-6300	?
Rigel	-	2	Orion-2	-	-	1	928.0	250	-6200	?
Canopus 2	-	1	Canopus	-	-	1	928.0	150	-6350	?
Canopus 1	-	1	Canopus	-	-	1	928.0	150	-6350	?
Centenario	-	1	Centenario	-	-	1	928.0	50	-6378	?
Castor (A)	-	1	Canopus	-	-	4	928.0	70	-6300	?
Castor (A)	-	2	Canopus	-	-	1	928.0	400	-6200	?
SpaceLoft XL	-	1	SpaceLoft XL	-	-	1	928.0	100	-6370	?
Spyder	-	1	Spyder St 1	-	-	1	928.0	100	-6370	?
Spyder	-	2	Spyder St 2	-	-	1	928.0	100	-6370	?
Black Brant III	-	1	Black Brant IIIA	-	-	1	928.0	180	-6370	?
Black Brant IIIB	-	1	Black Brant IIIB	-	-	1	928.0	180	-6370	?
N2ORTH	-	1	N2ORTH	-	-	1	928.0	100	-6370	?
Gosling-Lobster	-	1	Gosling	-	-	1	928.0	10	-6378	?
Gosling-Lobster	-	2	Lobster I	-	-	1	928.0	20	-6378	?
INTA-255	-	0	Chick	-	-	4	928.0	1	-6378	?
INTA-255	-	1	Goose	-	-	1	928.0	130	-6378	?
HAD	-	1	Gosling	-	-	1	928.0	10	-6370	?
HAD	-	2	LAPSTAR	-	-	1	928.0	100	-6370	?
INTA-300	-	1	Heron	-	-	1	928.0	2	-6378	?
INTA-300	-	2	Snipe	-	-	1	928.0	200	-6370	?
INTA-300B	-	1	Heron	-	-	1	928.0	2	-6378	?
INTA-300B	-	2	Snipe	-	-	1	928.0	150	-6370	?
Fulmar	-	1	Heron	-	-	1	928.0	15	-6378	?
Fulmar	-	2	Snipe	-	-	1	928.0	150	-6370	?
Aero High	-	1	Gosling IV	-	-	1	928.0	10	-6370	?
Aero High	-	2	Vela	-	-	1	928.0	150	-6370	?
Cockatoo	-	1	Gosling	-	-	1	928.0	20	-6300	?
Cockatoo	-	2	Lupus	-	-	1	928.0	150	-6300	?
Cockatoo Mk 2	-	1	Gosling	-	-	1	928.0	20	-6300	?
Cockatoo Mk 2	-	2	Lupus 2	-	-	1	928.0	150	-6300	?
Cockatoo Mk 3	-	1	Gosling IV	-	-	1	928.0	20	-6300	?
Cockatoo Mk 3	-	2	Lupus 2	-	-	1	928.0	150	-6300	?
Cockatoo Mk 4	-	1	Gosling IV	-	-	1	928.0	20	-6300	?
Cockatoo Mk 4	-	2	Lupus	-	-	1	928.0	150	-6300	?
Corella	-	1	Gosling IV	-	-	1	928.0	20	-6370	?
Corella	-	2	Dorado	-	-	1	928.0	200	-6300	?
Hybrid Test Rocket	-	1	HTR	-	-	1	928.0	30	-6378	?
Evo Space	-	1	Evol GCC	-	-	1	928.0	120	-6378	?
Private A	-	0	Private A Booster	-	-	1	928.0	1	-6378	?
Private A	-	1	Private A	-	-	1	928.0	1	-6378	?
Private F	-	0	Private A Booster	-	-	1	928.0	1	-6378	?
Private F	-	1	Private F	-	-	1	928.0	1	-6378	?
Rhumi	-	1	Rhumi	-	-	1	928.0	30	-6378	?
Forschungsflugkorper	-	1	FFK	-	-	1	928.0	120	-6300	?
CSXT	-	1	CSXT	-	-	1	928.0	100	-6370	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
K245	-	1	K245	-	-	1	928.0	1	-6378	?
Kappa 6	-	1	Kappa 6	-	-	1	928.0	50	-6379	?
Kappa 6	-	2	K150	-	-	1	928.0	85	-6350	?
Kappa 6H	-	1	Kappa 6H	-	-	1	928.0	40	-6350	?
Kappa 6H	-	2	K150	-	-	1	928.0	70	-6350	?
Kappa 8L	-	1	Kappa 6H	-	-	1	928.0	50	-6378	?
Kappa 8L	-	2	Kappa 8L	-	-	1	928.0	150	-6340	?
S-250	-	1	S-250	-	-	1	928.0	100	-6370	?
CB-250/RH-125	-	0	CB-250	-	-	1	928.0	10	-6378	?
CB-250/RH-125	-	1	RH-125	-	-	1	928.0	20	-6378	?
CB-250/LPR-006	-	0	CB-250	-	-	1	928.0	10	-6378	?
CB-250/LPR-006	-	1	LPR-006	-	-	1	928.0	20	-6378	?
NAL-25	-	1	NAL-25	-	-	1	928.0	50	-6370	?
M-100	-	1	M-100	-	-	1	928.0	10	-6378	?
M-100	-	2	M-100 St2	-	-	1	928.0	85	-6370	?
M-100	-	P	M-100 payload	-	-	1	928.0	85	-6370	?
M-100 (A-1)	-	1	M-100	-	-	1	928.0	10	-6378	?
M-100 (A-1)	-	2	M-100 St2	-	-	1	928.0	85	-6370	?
M-100 (A-1)	-	P	M-100 payload	-	-	1	928.0	85	-6370	?
M-100A	-	1	M-100	-	-	1	928.0	10	-6378	?
M-100A	-	2	M-100 St2	-	-	1	928.0	85	-6370	?
M-100A	-	P	M-100 payload	-	-	1	928.0	85	-6370	?
M-100B	-	1	M-100	-	-	1	928.0	10	-6378	?
M-100B	-	2	M-100 St2	-	-	1	928.0	85	-6370	?
M-100B	-	P	M-100 payload	-	-	1	928.0	85	-6370	?
RX-250-LPN	-	1	RX-250-LPN	-	-	1	928.0	70	-6370	?
D-Region Tomahawk	-	1	Tomahawk	-	-	1	928.0	120	-6300	?
ILR-33 Bursztyn 2K	-	0	ILR-33 Booster	-	-	2	928.0	10	-6370	?
ILR-33 Bursztyn 2K	-	1	ILR-33	-	-	1	928.0	100	-6370	?
Tomahawk	-	1	Tomahawk	-	-	1	928.0	100	-6370	?
Mesquito	-	1	Mesquito	-	-	1	928.0	50	-6378	?
Javelin 3	-	1	Javelin 3	-	-	1	928.0	80	-6370	?
Recruit	-	1	Recruit	-	-	1	928.0	4	-6378	?
Recruit T55	-	0	B-57A Canberra	-	-	1	928.0	14	-6378	?
Recruit T55	-	1	Recruit	-	-	1	928.0	14	-6378	?
Recruit T55	-	2	T-55	-	-	1	928.0	14	-6378	?
MX-2227	-	1	AeroHTV	-	-	1	928.0	1	-6378	?
MX-2227	-	2	AeroHTV Stage 2	-	-	1	928.0	10	-6378	?
HTV	-	1	AeroHTV	-	-	1	928.0	1	-6378	?
HTV	-	2	AeroHTV Stage 2	-	-	1	928.0	10	-6378	?
Kappa 2	-	1	Kappa 3 Booster	-	-	1	928.0	5	-6378	?
Kappa 2	-	2	Kappa 1	-	d	1	928.0	5	-6378	?
Kappa 3	-	1	Kappa 3 Booster	-	-	1	928.0	5	-6378	?
Kappa 3	-	2	Kappa 1	-	-	1	928.0	30	-6378	?
S-210	-	1	S-210	-	-	1	928.0	100	-6370	?
Orion-2	-	1	Orion-2	-	-	1	928.0	90	-6370	?
Orion-1	-	1	Orion-1	-	-	1	928.0	90	-6370	?
Belenos	-	1	Elan	-	-	1	928.0	15	-6370	?
Belenos	-	2	Aurore	-	-	1	928.0	120	-6300	?
Belisama	-	1	Elan	-	-	1	928.0	10	-6370	?
Belisama	-	2	Belisama	-	-	1	928.0	90	-6370	?
Grannos	-	1	Emilie	-	-	1	928.0	15	-6378	?
Grannos	-	2	Melusine	-	-	1	928.0	130	-6370	?
TT-210	-	1	TT-210	-	-	1	928.0	100	-6370	?
TT-200	-	1	TT-200	-	-	1	928.0	100	-6370	?
RH-200	-	1	RH-200	-	-	1	928.0	40	-6370	?
RH-200	-	2	RH-125	-	-	1	928.0	70	-6370	?
RH-200SV	-	1	RH-200SV	-	-	1	928.0	40	-6370	?
MMR-06	-	1	MMR-06	-	-	1	928.0	60	-6378	?
X-17 HTV	1	1	X-201	-	-	1	928.0	20	-6378	?
X-17 HTV	1	2	Dummy stage	-	-	1	928.0	20	-6378	?
X-17 HTV	1	3	Dummy stage	-	-	1	928.0	20	-6378	?
X-17 HTV	-	1	X-201	-	-	1	928.0	20	-6378	?
X-17 HTV	-	2	NOTS 124-C	-	-	3	928.0	20	-6378	?
X-17 HTV	-	3	NOTS 124-C	-	-	1	928.0	20	-6378	?
X-17 QTV	-	1	T-40	-	-	1	928.0	11	-6378	?
X-17 QTV	-	2	Dummy stage	-	-	1	928.0	11	-6378	?
X-17 QTV	-	3	Dummy stage	-	-	1	928.0	11	-6378	?
Kingfisher	-	1	Kingfisher	-	-	1	928.0	100	-6378	?
Barracuda	-	1	Kingfisher	-	-	1	928.0	100	-6378	?
Traveler	-	1	Traveler	-	-	1	928.0	100	-6300	?
Aftershock	-	1	Aftershock	-	-	1	928.0	100	-6300	?
Cirrus I	-	1	Cirrus I	-	-	1	928.0	5	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Cirrus I	-	2	Cirrus I	-	-	1	928.0	35	-6378	?
Cirrus II	-	1	Cirrus II	-	-	1	928.0	10	-6378	?
Cirrus II	-	2	Cirrus I	-	-	1	928.0	50	-6378	?
Stratos II+	-	1	Stratos II+	-	-	1	928.0	50	-6300	?
Stratos III	-	1	Stratos II+	-	-	1	928.0	50	-6300	?
Proson M1	-	1	Proson St1	-	-	1	928.0	1	-6300	?
Proson M1	-	2	Proson St2	-	-	1	928.0	1	-6300	?
Sparoair I	-	0	F3H Cougar	-	-	1	928.0	10	-6378	?
Sparoair I	-	1	Sparrow	-	-	1	928.0	20	-6370	?
Sparoair I	-	2	Sparrow	-	-	1	928.0	100	-6100	?
Sparoair II	-	0	F3H Cougar	-	-	1	928.0	10	-6378	?
Sparoair II	-	1	Sparrow	-	-	1	928.0	20	-6370	?
Sparoair II	-	2	Sparrow	-	-	1	928.0	100	-6100	?
Sparoair III	-	0	F4B Phantom	-	-	1	928.0	10	-6378	?
Sparoair III	-	1	Sparrow	-	-	1	928.0	20	-6370	?
Sparoair III	-	2	22.6KS1245	-	-	1	928.0	30	-6370	?
Sparrow Arcas	-	1	Sparrow	-	-	1	928.0	20	-6378	?
Sparrow Arcas	-	2	HV Arcas	-	-	1	928.0	100	-6370	?
Cleansweep IIIB	-	0	RB-57B	-	-	1	928.0	10	-6300	?
Cleansweep IIIB	-	1	Shrike	-	-	1	928.0	51	-6300	?
Petrel	-	0	Chick x3	-	-	1	928.0	20	-6370	?
Petrel	-	1	Petrel	-	-	1	928.0	150	-6370	?
Petrel 2	-	0	Chick x4	-	-	1	928.0	20	-6370	?
Petrel 2	-	1	Petrel 2	-	-	1	928.0	150	-6370	?
Gun Projectile 7-inch	-	1	Gun Projectile 7	-	-	1	928.0	100	-6370	?
HAEC	-	1	Demon	-	-	1	928.0	10	-6370	?
HAEC	-	2	HAEC FFAR	-	-	1	928.0	10	-6370	?
Lorikeet	-	1	Dorado	-	-	1	928.0	30	-6378	?
Lorikeet	-	2	Lupus	-	-	1	928.0	75	-6378	?
Lorikeet Mk 2	-	1	Dorado	-	-	1	928.0	30	-6378	?
Lorikeet Mk 2	-	2	Lupus 3	-	-	1	928.0	140	-6378	?
Astrid	-	1	Astrid	-	-	1	928.0	2	-6378	?
Cleansweep III	-	1	Sword	-	-	1	928.0	40	-6300	?
ASCAMP	-	1	Asp	-	-	1	928.0	30	-6370	?
ASCAMP	-	2	Baby Sergeant	-	-	1	928.0	100	-6370	?
Asp	-	1	Asp	-	-	1	928.0	30	-6370	?
Asp II	-	1	Asp II	-	-	1	928.0	30	-6370	?
Asp III	-	0	Loki	-	-	2	928.0	1	-6378	?
Asp III	-	1	Asp II	-	-	1	928.0	50	-6370	?
Asp III	4L	0	Loki	-	-	4	928.0	1	-6378	?
Asp III	4L	1	Asp II	-	-	1	928.0	50	-6370	?
Asp IV	-	1	Asp IV	-	-	1	928.0	80	-6370	?
Viper-Arrow	-	1	Viper II	-	-	1	928.0	10	-6370	?
Viper-Arrow	-	2	Arrow II	-	-	1	928.0	100	-6370	?
Kiva/Hopi	-	1	Kiva	-	-	1	928.0	30	-6378	?
Kiva/Hopi	-	2	Hopi	-	-	1	928.0	300	-6378	?
Cajun Dart	-	1	Cajun	-	-	1	12.0	12	-6374	?
Cajun Dart	-	F	Dart	-	-	1	12.0	93	-6374	?
Double Cajun T40	-	1	Cajun	-	-	2	12.0	10	-6378	?
Double Cajun T40	-	2	T-40	-	-	1	12.0	10	-6378	?
Pogo Hi	-	1	Deacon	-	-	1	12.0	25	-6370	?
Pogo Hi II	-	1	Cajun	-	-	1	12.0	25	-6370	?
Pogo Hi III	-	1	Asp	-	-	1	12.0	25	-6370	?
Apache	-	1	Apache	-	-	1	12.0	60	-6378	?
Cajun	-	1	Cajun	-	-	1	12.0	12	-6374	?
S-C	-	1	S-C	-	-	1	12.0	85	-6370	?
S-B	-	1	S-B	-	-	1	12.0	75	-6370	?
S-A	-	1	S-A	-	-	1	12.0	50	-6378	?
S-160	-	1	S-160	-	-	1	12.0	90	-6370	?
NAL-16	-	1	NAL-16	-	-	1	12.0	100	-6370	?
Lex	-	1	Lex	-	-	1	12.0	100	-6370	?
Monica I	-	1	Melanie 1	-	-	1	12.0	5	-6378	?
Monica I	-	2	Theodore	-	-	1	12.0	20	-6370	?
Monica I	-	3	Oreste	-	-	1	12.0	50	-6370	?
Monica IV	-	1	Melanie 1	-	-	1	12.0	5	-6378	?
Monica IV	-	2	Prosper	-	-	1	12.0	30	-6370	?
Monica IV	-	3	Prosper	-	-	1	12.0	90	-6370	?
Viper V/Dart	-	1	Viper V	-	-	1	12.0	100	-6370	?
Viper Falcon	-	1	Viper I	-	-	1	12.0	50	-6370	?
Viper Falcon	-	2	Falcon	-	-	1	12.0	150	-6300	?
Viper	-	1	Viper II	-	-	1	12.0	75	-6370	?
Viper-Dart	-	1	Viper II	-	-	1	12.0	123	-6370	?
Rockaire	-	0	F86D Sabrejet	-	-	1	12.0	9	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Rockaire	-	1	Deacon	-	-	1	12.0	40	-6370	?
Deacon Rockoon	-	0	Balloon	-	-	1	12.0	10	-6378	?
Deacon Rockoon	-	1	Deacon	-	-	1	12.0	120	-6370	?
Terrapin	-	1	Deacon	-	-	1	12.0	10	-6378	?
Terrapin	-	2	T-55	-	-	1	12.0	100	-6370	?
Deacon-Loki Rockoon	-	0	Balloon	-	-	1	12.0	10	-6378	?
Deacon-Loki Rockoon	-	1	Deacon	-	-	1	12.0	30	-6378	?
Deacon-Loki Rockoon	-	2	Loki	-	-	1	12.0	100	-6378	?
ALSOR	-	0	F-104A Starfighter	-	-	1	12.0	0	-6378	?
ALSOR	-	1	Viper I	-	-	1	12.0	70	-6378	?
Deacon Judi	-	1	Deacon	-	-	1	12.0	10	-6378	?
Deacon Judi	-	2	Judi III	-	-	1	12.0	90	-6378	?
Kisha Judi	-	1	Kisha	-	-	1	12.0	20	-6378	?
Kisha Judi	-	2	Judi III	-	-	1	12.0	100	-6370	?
Deacon Arrow II	-	1	Deacon	-	-	1	12.0	10	-6378	?
Deacon Arrow II	-	2	Arrow II	-	-	1	12.0	85	-6378	?
Deacon Deacon	-	1	Deacon	-	-	1	12.0	5	-6378	?
Deacon Deacon	-	2	Deacon	-	-	1	12.0	10	-6378	?
Double Deacon	-	1	Deacon	-	-	2	12.0	10	-6378	?
Tandem Double Deacon	-	1	Deacon	-	-	2	12.0	10	-6378	?
Tandem Double Deacon	-	2	Deacon	-	-	2	12.0	10	-6378	?
Triple Deacon	-	1	Deacon	-	-	3	12.0	10	-6378	?
Triple Deacon HPAG	-	1	Deacon	-	-	3	12.0	10	-6378	?
Triple Deacon HPAG	-	2	HPAG	-	-	1	12.0	20	-6378	?
Tri-Deacon Deacon HPAG	-	1	Deacon	-	-	3	12.0	5	-6378	?
Tri-Deacon Deacon HPAG	-	2	Deacon	-	-	1	12.0	5	-6378	?
Tri-Deacon Deacon HPAG	-	3	HPAG	-	-	1	12.0	10	-6378	?
Quad Deacon	-	1	Deacon	-	-	4	12.0	10	-6378	?
Deacon	-	1	Deacon	-	-	1	12.0	10	-6378	?
Deacon HVAR	-	1	Deacon	-	-	1	12.0	10	-6378	?
Deacon HVAR	-	2	HVAR	-	-	1	12.0	10	-6378	?
Deacon Sidewinder	-	1	Deacon	-	-	1	12.0	10	-6378	?
Deacon Sidewinder	-	2	HPAG	-	-	1	12.0	10	-6378	?
Vrbec-Banovic	-	1	P-Vrbec	-	-	1	12.0	10	-6378	?
Vrbec-Banovic	-	2	O-Vrbec	-	-	1	12.0	100	-6378	?
Atea-1	-	1	Atea-1	-	-	1	12.0	100	-6378	?
Icarus	-	1	Icarus	-	-	1	12.0	1	-6378	?
Icarus	-	2	Icarus Stage 2	-	-	1	12.0	60	-6378	?
Hyperion	-	1	Hyperion	-	-	1	12.0	36	-6378	?
K150	-	1	K150	-	-	1	12.0	5	-6378	?
Zhinui	-	1	ZN-1	-	-	1	12.0	70	-6370	?
Arcon	-	0	Arcon booster	-	-	1	12.0	1	-6300	?
Arcon	-	1	Arcon	-	-	1	12.0	60	-6300	?
Astrobee D	-	1	Astrobee D	-	-	1	12.0	120	-6370	?
MERA	-	1	MERA	-	-	1	12.0	10	-6378	?
MERA	-	2	MERA	-	-	1	12.0	80	-6370	?
MD-01	-	1	Meteo	-	-	1	12.0	50	-6378	?
Meteo	-	1	Meteo	-	-	1	12.0	50	-6378	?
Sirocco	-	1	Sirocco	-	-	1	12.0	60	-6370	?
MT-135	-	1	MT-135P	-	-	1	12.0	55	-6378	?
MT-135P	-	1	MT-135P	-	-	1	12.0	65	-6378	?
MT-135JA	-	1	MT-135P	-	-	1	12.0	71	-6378	?
Ivanov	-	0	Ivanov Booster	-	-	1	12.0	1	-6378	?
Ivanov	-	1	Ivanov	-	-	1	12.0	5	-6378	?
Ivanov	-	2	Ivanov	-	-	1	12.0	10	-6378	?
Ivanov	-	3	Ivanov	-	-	1	12.0	35	-6378	?
Emma	-	0	Emma Booster	-	-	1	12.0	5	-6378	?
Emma	-	1	Emma	-	-	1	12.0	60	-6378	?
Gamma Centauro	-	1	GammaCen Booster	-	-	1	12.0	1	-6378	?
Gamma Centauro	-	2	GammaCen Sustainer	-	-	1	12.0	35	-6378	?
Aurore	-	1	Aurore	-	-	1	12.0	40	-6370	?
Kappa 1	-	1	Kappa 1	-	-	1	12.0	5	-6378	?
Gun Projectile 5-inch	-	1	Gun Projectile 5	-	-	1	12.0	100	-6370	?
Skua	-	0	Chick x3	-	-	1	12.0	2	-6378	?
Skua	-	1	Skua	-	-	1	12.0	100	-6370	?
Skua 2	-	0	Chick x4	-	-	1	12.0	2	-6378	?
Skua 2	-	1	Skua 2	-	-	1	12.0	100	-6370	?
Skua 3	-	0	Chick x4	-	-	1	12.0	2	-6378	?
Skua 3	-	1	Skua 3	-	-	1	12.0	100	-6370	?
Skua 4	-	0	Chick x4	-	-	1	12.0	2	-6378	?
Skua 4	-	1	Skua 3	-	-	1	12.0	100	-6370	?
FTB	-	1	FTB	-	-	1	12.0	40	-6378	?
Sidewinder-Arcas	-	1	Sidewinder 1A	-	-	1	12.0	3	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Sidewinder-Arcas	-	2	HV Arcas	-	-	1	12.0	90	-6347	?
Sidewinder-Arcas	-	F	Nosecone	-	-	1	12.0	90	-6347	?
Sidewinder-Raven	-	1	Sidewinder 1A-15	-	-	1	12.0	3	-6378	?
Sidewinder-Raven	-	2	Hopi IV	-	-	1	12.0	110	-6350	?
HPAG	-	1	HPAG	-	-	1	12.0	10	-6378	?
HPAG Deacon	-	1	HPAG	-	-	1	12.0	10	-6378	?
HPAG Deacon	-	2	Deacon	-	-	1	12.0	10	-6378	?
Double HPAG Deacon	-	1	HPAG	-	-	2	12.0	2	-6378	?
Double HPAG Deacon	-	2	Deacon	-	-	1	12.0	10	-6378	?
ADTV	-	1	Lupus	-	-	1	12.0	20	-6378	?
Kookaburra	-	1	Lupus	-	-	1	12.0	20	-6378	?
Kookaburra	-	2	Musca	-	-	1	12.0	50	-6378	?
Kookaburra 2	-	1	Lupus 2	-	-	1	12.0	20	-6378	?
Kookaburra 2	-	2	Musca	-	-	1	12.0	50	-6378	?
Kookaburra 3	-	1	Lupus 3	-	-	1	12.0	20	-6378	?
Kookaburra 3	-	2	Musca	-	-	1	12.0	50	-6378	?
DAC Roc	-	1	DAC Roc	-	-	1	12.0	50	-6378	?
Seagull	-	1	Seagull	-	-	1	12.0	50	-6370	?
HALO	-	1	HALO	-	-	1	12.0	60	-6378	?
HVAR	-	1	HVAR	-	-	1	12.0	5	-6378	?
HVAR FFAR	-	1	HVAR	-	-	1	12.0	5	-6378	?
HVAR FFAR	-	2	Mk7	-	-	1	12.0	5	-6378	?
DIM	-	1	DIM	-	-	1	12.0	70	-6378	?
Meteor-1	-	1	Meteor 1	-	-	1	12.0	40	-6378	?
Meteor-3	-	1	Meteor 3 Booster	-	-	1	12.0	30	-6378	?
Meteor-3	-	2	Meteor 1	-	-	1	12.0	60	-6378	?
Meteor-3B	-	1	Meteor 3B Booster	-	-	1	12.0	30	-6378	?
Meteor-3B	-	2	Meteor 1	-	-	1	12.0	60	-6378	?
RH-125	-	1	RH-125	-	-	1	12.0	20	-6378	?
MCR-3/RH-125	-	0	MCR-3	-	-	1	12.0	10	-6378	?
MCR-3/RH-125	-	1	RH-125	-	-	1	12.0	50	-6378	?
INTA-100	-	1	INTA S-12	-	-	1	12.0	1	-6378	?
INTA-100	-	2	INTA-100	-	-	1	12.0	100	-6378	?
Menaka II	-	1	RH-125	-	-	1	12.0	20	-6378	?
Menaka II	-	2	RH-125S	-	-	1	12.0	60	-6370	?
Black Brant VI	-	1	Black Brant VI	-	-	1	12.0	80	-6378	?
Sonda 1	-	1	Sonda 1-1	-	-	1	12.0	5	-6378	?
Sonda 1	-	2	Sonda 1-2	-	-	1	12.0	65	-6370	?
Rocketsonde	-	1	Rocketsonde	-	-	1	12.0	60	-6370	?
Rocketsonde2	-	1	Rocketsonde2	-	-	1	12.0	60	-6370	?
MESOS	-	1	04500	-	-	1	12.0	1	-6378	?
MESOS	-	2	M830	-	-	1	12.0	80	-6378	?
Viper 3A	-	1	Viper IIIA	-	-	1	12.0	100	-6370	?
DART	-	1	TME DART	-	-	1	12.0	100	-6370	?
Arcas	-	1	Arcas	-	-	1	12.0	90	-6300	?
Arcas	-	P	Arcas payload	-	-	1	12.0	90	-6300	?
Frangible Arcas	-	1	Frangible Arcas	-	-	1	12.0	90	-6300	?
Boosted Arcas	-	1	MARC 14A1	-	-	1	12.0	2	-6378	?
Boosted Arcas	-	2	Arcas	-	-	1	12.0	100	-6370	?
Boosted Arcas 2	-	1	MARC 42A1	-	-	1	12.0	2	-6378	?
Boosted Arcas 2	-	2	Arcas	-	-	1	12.0	100	-6370	?
Super Arcas	-	1	Super Arcas	-	-	1	12.0	80	-6378	?
Excalibur	-	1	Excalibur	-	-	1	12.0	100	-6378	?
Hopi Dart	-	1	Hopi III	-	-	1	12.0	90	-6370	?
Raven	-	1	Hopi IV	-	-	1	12.0	60	-6370	?
Super Loki	-	1	Super Loki	-	-	1	12.0	120	-6370	?
Shadow 1	-	1	Super Loki	-	-	1	12.0	120	-6370	?
Stable Super Loki	-	1	Stable Super Loki	-	-	1	12.0	120	-6370	?
FalconLaunch	-	1	FalconLaunch	-	-	1	12.0	120	-6370	?
Microstar	-	1	Super Loki	-	-	1	12.0	82	-6370	?
Meraki	-	1	Meraki St 1	-	-	1	12.0	5	-6378	?
Meraki	-	2	Meraki St 2	-	-	1	12.0	120	-6378	?
SPEAR-HRT	-	1	SPEAR-HRT St 1	-	-	1	12.0	10	-6370	?
SPEAR-HRT	-	2	SPEAR-HRT St 2	-	-	1	12.0	90	-6370	?
Skylark Micro	-	1	SkylarkMicro Booster	-	-	1	12.0	1	-6378	?
Skylark Micro	-	2	SkylarkMicro	-	-	1	12.0	30	-6378	?
Epona	-	1	Belisama	-	-	1	12.0	15	-6378	?
Epona	-	2	Belisama	-	-	1	12.0	60	-6378	?
SA-II	-	1	SA-II	-	-	1	12.0	20	-6378	?
ST	-	1	ST	-	-	1	12.0	20	-6378	?
Black Brant VII	-	1	Black Brant VII	-	-	1	12.0	40	-6378	?
Loki Dart	-	1	Loki-Dart	-	-	1	12.0	75	-6378	?
Loki Dart PWN-8B	-	1	Loki SR71-AD-1	-	-	1	12.0	75	-6378	?

LVStages

LV_Name	LV_Variant	Stage_No	Stage_Name	Qualifier	Dummy	Multiplicity	Stage_Impulse kNs	Stage_Apogee km	Stage_Perigee km	Perigee_Qual
Loki	-	1	Loki	-	-	1	12.0	75	-6378	?
Loki Rockoon	-	0	Balloon	-	-	1	12.0	10	-6378	?
Loki Rockoon	-	1	Loki	-	-	1	12.0	100	-6378	?
Judi-Dart	-	1	Judi I	-	-	1	12.0	75	-6370	?
Metroc	-	1	Metroc	-	-	1	12.0	50	-6378	?
FTV	-	1	FTV	-	-	1	12.0	20	-6378	?
SEGPRO	-	1	SEGPRO	-	-	1	12.0	20	-6378	?
RH-75	-	1	RH-75	-	-	1	12.0	10	-6378	?
NAL-7	-	1	NAL-7	-	-	1	12.0	20	-6370	?
Rockair	-	0	F2H2 Banshee	-	-	1	12.0	9	-6378	?
Rockair	-	1	FFAR	-	-	1	12.0	55	-6370	?
FFAR	-	1	Mk7	-	-	1	12.0	5	-6378	?
Double FFAR	-	1	Mk7	-	-	1	12.0	2	-6378	?
Double FFAR	-	2	Mk7	-	-	1	12.0	5	-6378	?
Navaho II SM-64	-	1	Navaho Booster	-	-	1	12.0	25	-6378	?
Navaho II SM-64	-	2	Navaho Missile	-	-	1	12.0	25	-6378	?
MX-775	-	1	MX-775	-	-	1	12.0	10	-6378	?
Snark	-	1	Snark Booster	-	-	1	12.0	20	-6378	?
Matador	-	1	Matador	-	-	1	12.0	12	-6378	?
Mace	-	1	Mace	-	-	1	12.0	12	-6378	?
Regulus	-	1	Regulus	-	-	1	12.0	20	-6378	?
Regulus II	-	1	Regulus II	-	-	1	12.0	20	-6378	?
Bomarc A	-	1	Bomarc A	-	-	1	12.0	20	-6378	?
Bomarc B	-	1	Bomarc B	-	-	1	12.0	20	-6378	?
Goose	-	1	Bull Goose	-	-	1	12.0	20	-6378	?
Bull Goose	-	1	Bull Goose	-	-	1	12.0	20	-6378	?
X-7B	-	0	Lance	-	-	2	12.0	0	-6378	?
X-7B	-	1	X-7	-	-	1	12.0	30	-6378	?
X-7A-3	-	0	Lance	-	-	2	12.0	0	-6378	?
X-7A-3	-	1	X-7	-	-	1	12.0	30	-6378	?
GLCM	-	1	GLCM	-	-	1	12.0	20	-6378	?
BLDT	-	1	BLDT	-	-	1	12.0	10	-6378	?
Lark	-	1	Lark	-	-	1	12.0	8	-6378	?

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
-	Unknown	-	Dummy	-	-	-	0	0.0	0.0	-	0
?	Unknown	-	-	-	-	-	-	-	-	-	-
N-1 Blok-A	N-1	OKB1	N-1 Blok A	30.0	14.00	1870.0	130000	45300.0	110.0	NK-15	30
N-1 Blok-B	11A52B	OKB1	Blok B	20.5	10.30	540.0	56000	14000.0	130.0	NK-15V	8
Saturn S-IC	SaturnV	BOMI	-	42.1	10.06	2286.0	135200	33500.0	170.0	F-1	5
Saturn S-II	SaturnII	NAASB	S-II	24.8	10.06	490.8	39000	4500.0	270.0	J-2	5
Starship V1.0	Starship	SPX	-	50.0	9.00	1300.0	120000	12500.0	330.0	Raptor 2 Vac	6
Starship V2 (R2)	Starship	SPX	-	50.3	9.00	1700.0	120000	12500.0	330.0	Raptor 2 Vac	6
Starship V2	Starship	SPX	-	52.1	9.00	1700.0	120000	15600.0	330.0	Raptor 3 Vac	6
Starship V3	Starship	SPX	-	61.0	9.00	2700.0	150000	28700.0	330.0	Raptor 3 Vac	9
Super Heavy	Starship	SPX	-	71.0	9.00	3520.0	220000	72500.0	330.0	Raptor SL	33
Super Heavy V2	Starship	SPX	-	72.3	9.00	3650.0	220000	80800.0	330.0	Raptor 3 SL	33
Super Heavy V3	Starship	SPX	-	81.0	9.00	4100.0	250000	103000.0	330.0	Raptor 3 SL	35
ET	STS	MMMI	-	47.0	8.40	748.0	27000	6300.0	516.0	SSME	3
SLS CS	STS	BOMIS	-	64.6	8.40	1102.0	85300	9116.0	483.0	RS-25	4
Energiya	Energiya	RKKE	-	58.1	7.75	780.0	80000	7850.0	480.0	RD-0120	4
8S810	Proton	OKB52	Proton 8S810	21.2	7.40	450.0	31000	9500.0	120.0	RD-253	6
8S810M	Proton	OKB52	Proton 8S810	21.2	7.40	450.0	30600	10500.0	120.0	RD-253 14D14	6
Neutron St1	Neutron	RLABU	-	42.8	7.00	420.0	-	6570.0	-	Archimedes Vac	9
New Glenn GS1	NewGlenn	BLORCC	-	57.5	7.00	900.0	110000	17150.0	-	BE-4	7
New Glenn GS2	NewGlenn	BLORCC	-	23.4	7.00	150.0	-	1440.0	-	BE-3U	2
Saturn S-IVB	SaturnIVB	DACHB	S-IVB	18.7	6.60	120.0	13300	890.0	500.0	J-2	1
Saturn S-IB	Saturn	CHRMI	-	24.4	6.53	448.7	41594	8240.0	155.0	H-1	8
Saturn S-I	Saturn	MSFC	-	22.5	6.53	432.7	45250	5768.0	115.0	H-1	8
N-1 Blok-V	11A52V	OKB1	Blok V	12.5	6.40	185.0	13700	1610.0	400.0	NK-21	4
Saturn S-IV	SaturnIV	MSFC	S-IV	9.8	5.59	50.6	5217	400.2	482.0	RL10	6
Saturn S-IVD	SaturnIV	MSFC	Dummy S-IV	9.8	5.59	50.6	5217	400.2	482.0	RL10	6
ATB	MX	RSLP	-	8.4	5.50	119.7	-	-	78.8	SR118	0
OV	STS.OV	RWI	-	37.2	5.49	110.0	80000	54.0	90.0	AJ10-190	2
Ariane 6 ULPM	Ariane5	ARIB	-	12.1	5.46	31.0	3000	180.0	900.0	Vinci	1
Ariane 6 LLPM	Ariane5	ARIG	-	32.0	5.46	189.0	14700	1370.0	465.0	Vulcain 2.1	1
Ariane 5 EPC H158	Ariane5	NORLM	-	30.5	5.46	170.0	12700	1114.0	589.0	Vulcain	1
Ariane 5 EPC H175	Ariane5	NORLM	-	30.5	5.46	189.0	14200	1320.0	540.0	Vulcain 2	1
Ariane 5 EPS	EPS	DORN	-	4.9	5.46	12.5	2700	29.0	1100.0	Aestus	1
Ariane 5 EPS P2000	EPS	DORN	EPS L10	5.2	5.46	13.0	2850	29.0	1100.0	Aestus	1
ESC-A	EPS	ASTD	-	7.0	5.43	18.4	2000	64.0	945.0	HM-7B	1
ESC-D	EPS	ASTD	-	7.0	5.43	19.0	2000	64.0	945.0	HM-7B	1
Vulcan	Vulcan	ULAD	Vulcan	33.3	5.40	540.0	50000	4800.0	299.0	BE-4	2
Centaur V	CentaurV	ULAD	Centaur	11.7	5.40	60.0	5500	212.0	740.0	RL10C-1-1A	2
H-IIB Stage 1	H2B	MHITO	H-II	38.0	5.20	202.0	24000	2196.0	352.0	LE-7A	2
H3 Stage 1 2E	H2B	MHITO	H-3	37.0	5.20	114.0	13000	2441.0	300.0	LE-9	2
H3 Stage 1 3E	H2B	MHITO	H-3	37.0	5.20	240.0	15000	3663.0	300.0	LE-9	3
H3 Stage 2	H2B	MHITO	-	12.0	5.20	27.0	2500	137.0	686.0	LE-5B-3	1
CZ-5 Stage 1	CZ5	CALT	CZ-H5-1	31.7	5.00	186.9	21600	1400.0	480.0	YF-77	2
CZ-5 Stage 2	CZ5	CALT	CZ-H5-2	10.6	5.00	36.0	6700	176.5	700.0	YF-75D	2
Delta CBC	Delta4	BOHB	-	40.8	5.00	226.4	26760	2891.0	249.0	RS-68	1
Delta CBC RS-68A	Delta4	BOHB	-	40.8	5.00	226.4	26760	3124.0	249.0	RS-68A	1
Delta D4SS-5	D4SS	BOHB	Delta-5m	12.0	5.00	30.7	3490	110.0	1125.0	RL10B-2	1
DCSS5-1	D4SS	BOHB	Delta-5m	12.0	5.00	30.7	3490	110.0	1125.0	RL10C-2-1	1
ICPS	D4SS	BOHB	Delta-5m	13.7	5.10	31.0	3500	110.0	1125.0	RL10B-2	1
Neutron St2	Neutron2	RLABU	-	11.5	5.00	30.0	-	890.0	-	Archimedes Vac	1
DC-X	DC-X	MDAC	-	12.6	4.95	18.8	10000	242.0	263.0	RL10	4
DC-XA	DC-X	MDAC	Clipper Graham	12.6	4.95	18.8	10000	242.0	263.0	RL10	4
L-3 Blok G	BlokG	OKB1	-	9.1	4.40	61.8	6000	445.0	443.0	NK-19	1
Centaur T	Centaur	GDA	Centaur	9.0	4.30	23.8	2775	146.0	600.0	RL10A-3-3A	2
8S811	UR-200	OKB52	Proton St2	17.1	4.10	167.8	11700	2330.0	210.0	RD-0211	4
8S812	Proton.St3	OKB52	Proton St3	6.9	4.10	50.6	4185	583.0	230.0	RD-0210	1
8S812M	Proton.St3	OKB52	Proton St3	4.1	4.10	50.3	3700	583.0	230.0	RD-0210	1
Briz-M	Briz	KHRU	-	2.8	4.10	22.1	2370	19.6	3000.0	S5.98M	1
H-II Stage 1	H2	MHITO	H-II	34.4	4.00	98.0	11700	1080.0	346.0	LE-7	1
H-IIA Stage 1	H2	MHITO	H-II	37.2	4.00	114.0	13000	1100.0	390.0	LE-7A	1
Delta III Stage 2	D3SS	BOHB	Delta/0030	8.8	4.00	19.3	2475	110.0	700.0	RL10B-2	1
Delta D4SS-4	D3SS	BOHB	Delta/0030	12.0	4.00	24.2	2850	110.0	850.0	RL10B-2	1
H-II Stage 2	H2.St2	MHITO	H-II St2	11.0	4.00	16.7	2700	122.0	600.0	LE-5A	1
H-IIA Stage 2	H2.St2	MHITO	H-II St2	9.2	4.00	20.0	4000	137.0	600.0	LE-5B	1
H-IIA Stage 2 U	H2.St2	MHITO	H-II St2	9.2	4.00	20.0	4000	137.0	600.0	LE-5B	1
GS1-L110 a	GSLV3	LPSCM	-	21.3	4.00	125.8	9800	1598.0	200.0	Vikas 4B	2
GS1-L110	GSLV3	LPSCM	-	21.3	4.00	125.8	9800	1692.0	205.0	HTVE	2
GS2-C25	GSLV3.St2	LPSCM	-	13.5	4.00	32.4	4400	200.0	667.0	CE-20	1
GS2-C25 a	GSLV3.St2	LPSCM	-	13.5	4.00	33.0	4400	200.0	635.0	CE-20	1
Antares Stage 1	Zenit	OSCW/YUZH	-	27.6	3.90	260.7	18715	3260.0	235.0	AJ26-62	2
Antares 2 Stage 1	Zenit	OSCW/YUZH	-	27.6	3.90	260.7	18715	3844.0	235.0	RD-181	2
Antares 2+ Stage 1	Zenit	OSCW/YUZH	-	27.6	3.90	260.7	18715	3844.0	235.0	RD-181	2

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Energiya Blok A	Zenit	YUZH	-	38.3	3.90	360.0	60000	7908.0	145.0	RD-170	1
11S771	Zenit	YUZH	-	32.9	3.90	352.0	33900	7908.0	140.0	RD-170	1
11S772	Zenit.St2	YUZH	-	11.1	3.90	90.0	9300	912.0	300.0	RD-120	1
Atlas CCB	Atlas5	LMA	-	32.5	3.80	304.0	20890	3800.0	240.0	RD-180	1
Ariane L144	Ariane	AELM	-	18.4	3.80	160.0	13750	2462.0	146.0	Viking V	4
Ariane L220	Ariane	EADSL	-	25.4	3.80	246.0	17900	3034.0	205.0	Viking VC	4
Tianlong-3 Stage 1	TL3	TIANB	-	43.0	3.80	-	-	7600.0	-	TH-12	9
Tianlong-3 Stage 2	TL3	TIANB	-	14.3	3.80	-	-	1350.0	-	TH-12V	1
Longxing-2 St 1	CZ12	SAST	-	30.0	3.80	-	-	-	-	YF-100K	4
CZ-12 Stage 1	CZ12	SAST	-	39.0	3.80	-	-	5000.0	-	YF-100K	4
CZ-12 Stage 2	CZ12	SAST	-	10.0	3.80	-	-	360.0	-	YF-115	2
LM AS	LMAS	GRUM	-	2.5	3.76	4.9	2000	15.6	480.0	RS-18	1
11S824	Blok-D	NPOE	Blok D	5.5	3.70	13.4	1800	85.0	600.0	11D58	1
11S824M	Blok-D	NPOE	Blok D-1	5.5	3.70	17.3	2400	85.0	600.0	11D58	1
11S824F	Blok-D	NPOE	Blok D-2	5.5	3.70	17.3	2400	85.0	600.0	11D58	1
11S86	Blok-D	NPOE	Blok DM	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
11S861	Blok-D	NPOE	Blok DM-2	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
11S861-01	Blok-D	NPOE	Blok DM-2M	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
11S861-03	Blok-D	NPOE	Blok DM-3	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
17S40	Blok-D	NPOE	-	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
14S48	Blok-D	NPOE	Persei	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
14S48 Orion	Blok-D	NPOE	Orion	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
Blok DM1	Blok-D	NPOE	-	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
Blok DM3	Blok-D	NPOE	-	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
Blok DM4	Blok-D	NPOE	-	6.3	3.70	17.5	2440	83.4	680.0	11D58M	1
Blok DM-SL	Blok-D	NPOE	-	5.6	3.70	17.3	2720	85.0	650.0	11D58M	1
Blok DM-SLB	Blok-D	NPOE	-	5.6	3.70	17.3	2720	85.0	650.0	11D58M	1
Dragon V2	Dragon	SPX	-	6.1	3.70	4.2	4200	584.0	5.0	Super Draco	8
SRM	SRB	THKU	-	45.5	3.77	590.0	88000	11790.0	123.0	SRM	1
RSRM	SRB	THKU	-	45.5	3.77	590.0	88000	11790.0	123.0	SRM	1
RSRMV	SRB	NGISP	-	47.4	3.77	733.0	72000	9999.0	132.8	RSRMV	1
Ares I-X	SRB	THKU	-	50.9	3.77	590.0	110000	11790.0	123.0	SRM	1
Falcon 9 St 1	Falcon9	SPX	-	29.0	3.65	302.0	17726	3680.0	174.0	Merlin 1C	9
Falcon 9 St 1/1D	Falcon9	SPX	-	42.0	3.65	390.0	18000	5886.0	180.0	Merlin 1D	9
Falcon 9 St 1/1D-FT	Falcon9	SPX	-	43.5	3.65	390.0	18000	6770.0	180.0	Merlin 1D-FT	9
Falcon 9 St 1/1D-5	Falcon9	SPX	-	43.5	3.65	390.0	18000	6770.0	180.0	Merlin 1D-5	9
Falcon 9 St 1/1D-4	Falcon9	SPX	-	43.5	3.65	390.0	18000	6770.0	180.0	Merlin 1D-4	9
Falcon 9-1D	Falcon9	SPX	-	33.0	3.65	302.0	18000	547.0	174.0	Merlin 1D	1
Falcon 9 St 2	Falcon9.St2	SPX	-	10.0	3.65	52.0	2957	427.0	345.0	Merlin 1C-Vac	1
Falcon 9 St 2/1D	Falcon9.St2	SPX	-	12.6	3.65	75.7	4900	801.0	372.0	Merlin 1D-Vac	1
Falcon 9 St 2/1D-4	Falcon9.St2	SPX	-	12.6	3.65	75.7	4900	801.0	372.0	Merlin 1D-Vac	1
Falcon 9 St 2/1D-5	Falcon9.St2	SPX	-	12.6	3.65	75.7	4900	801.0	372.0	Merlin 1D-Vac	1
Angara URM-2	URM-2	KHRU	-	5.5	3.60	39.8	4000	294.3	359.0	RD-0124A	1
KSLV-II Stage 1	KSLV2	KARI	-	21.6	3.50	-	-	2942.0	127.0	KRE-075 SL	4
X-15	X-15	NAA	-	15.3	3.55	14.2	5150	257.0	100.0	XLR-99	1
X-15 XLR-11	X-15	NAA	-	15.3	3.55	14.2	5150	71.0	100.0	XLR-11	2
Vega P120C	VegaC	AVIO	-	11.7	3.40	154.6	11000	4500.0	132.8	P120C	1
Ariane 6 ESR	VegaC	AVIO	-	11.7	3.40	154.6	11000	4500.0	132.8	P120C	1
ZQ-2 Stage 1	ZQ-2	LSPHZ	-	34.0	3.35	150.0	15000	2630.0	-	TQ-12	4
ZQ-2 Stage 2	ZQ-2	LSPHZ	-	12.0	3.35	50.0	5000	800.0	-	TQ-12	1
ZQ-2E Stage 1	ZQ-2	LSPHZ	-	34.0	3.35	150.0	15000	2880.0	-	TQ-12A	4
ZQ-2E-1 Stage 1	ZQ-2	LSPHZ	-	34.0	3.35	150.0	15000	2880.0	-	TQ-12	4
ZQ-2E Stage 2	ZQ-2	LSPHZ	-	12.0	3.35	50.0	5000	800.0	-	TQ-15A	1
L180-YF21B	DF5	CALT?	L180-YF21B	23.1	3.35	180.0	10000	2961.0	130.0	YF-20B	4
L140-YF21	DF5	CALT	-	20.2	3.35	151.0	9000	2785.0	132.0	YF-21	4
FB-1 Stage 1	DF5	SAST	LF140-YF21	20.2	3.35	151.0	9000	2785.0	132.0	YF-21	4
DF-5 Stage 1	DF5	CALT?	LF140-YF21	20.2	3.35	151.0	9000	2785.0	132.0	YF-21	4
CZ-2 Stage 1	DF5	CALT	L140-YF21	20.5	3.35	153.0	10000	2961.0	122.0	YF-21	4
CZ-2C Stage 1	DF5	CALT	L140-YF21	25.7	3.35	153.0	10000	2961.0	122.0	YF-21	4
CZ-2Ca Stage 1	DF5	CALT	L140-YF21	27.3	3.35	182.0	10000	2961.0	122.0	YF-21	4
CZ-3 Stage 1	DF5	SAST	L140-YF21	20.2	3.35	151.0	9000	2785.0	132.0	YF-21	4
CZ-2E Stage 1	DF5	CALT	L180-YF21B	23.7	3.35	196.5	9500	2961.0	166.0	YF-21	4
CZ-3A Stage 1	DF5	SAST	L180-YF21B	23.3	3.35	180.0	9500	2961.0	145.0	YF-21	4
CZ-3BE Stage 1	DF5	SAST	L180-YF21B	24.8	3.35	186.2	9500	2961.0	145.0	YF-21	4
CZ-4 Stage 1	DF5	SAST	L180-YF21B	24.7	3.35	192.7	9500	2961.0	170.0	YF-21	4
CZ6-C	DF5	SAST	-	15.0	3.35	84.0	4100	1224.0	-	YF-100	1
CZ6A-C	DF5	SAST	-	20.0	3.35	120.0	6000	2448.0	-	YF-100	2
CZ-7 Stage 1	DF5	CALT	K3-1	26.0	3.35	186.0	12000	2400.0	215.0	YF-100	2
CZ-8 Stage 1	DF5	CALT	K3-1	26.0	3.35	186.0	12000	2400.0	215.0	YF-100	2
CZ-5 Booster	DF5	CALT	K3-1	27.6	3.35	156.6	13800	2400.0	180.0	YF-100	2
DF-5 Stage 2	CZ.St2	CALT?	LF35-YF24	7.5	3.35	39.0	4000	742.0	110.0	YF-22	1
FB-1 Stage 2	CZ.St2	SAST	LF35-YF24	7.5	3.35	39.0	4000	742.0	110.0	YF-22 (FB)	1
L35-YF24	CZ.St2	CALT?	L35-YF24	9.7	3.35	39.0	4000	765.8	110.0	YF-22	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
CZ-2 Stage 2	CZ.St2	CALT	LF35-YF24	7.5	3.35	39.0	4000	742.0	109.0	YF-22	1
CZ-2C Stage 2	CZ.St2	CALT	LF35-YF24	7.5	3.35	39.0	4000	742.0	109.0	YF-22	1
CZ-2Ca Stage 2	CZ.St2	CALT	LF55-YF24	11.3	3.35	59.0	4000	742.0	109.0	YF-22	1
CZ-3 Stage 2	CZ.St2	SAST	LF35-YF24	9.7	3.35	39.0	4000	720.0	180.0	YF-22	1
L35-YF24B	CZ.St2	CALT?	L35-YF24B	11.5	3.35	34.0	4000	788.4	110.0	YF-22B	1
CZ-3A Stage 2	CZ.St2	SAST	L35-YF24B	9.9	3.35	33.6	4000	742.0	180.0	YF-22	1
CZ-3B Stage 2	CZ.St2	SAST	L35-YF24B	9.9	3.35	44.0	4000	742.0	180.0	YF-22	1
CZ-4 Stage 2	CZ.St2	SAST	L35-YF24B	10.4	3.35	39.6	4000	742.0	127.0	YF-22B	1
CZ-4 Stage 2j	CZ.St2	SAST	L35-YF24B	10.4	3.35	39.6	4000	742.0	127.0	YF-22B	1
CZ-4B Stage 2	CZ.St2	SAST	L35-YF24B	10.4	3.35	39.6	4000	742.0	127.0	YF-22B'	1
CZ-2E Stage 2	CZ.St2	CALT	L90-YF24B	15.5	3.35	91.5	5500	742.0	295.0	YF-22	1
CZ-6A Stage 2	CZ.St2	SAST	-	11.5	3.35	71.0	6000	176.0	-	YF-115	1
CZ-7 Stage 2	CZ.St2	CALT	K3-2	11.5	3.35	71.0	6000	720.0	-	YF-115	4
CZ-8A Stage 2	CZ.St2	CALT	H18-YF75	12.4	3.35	21.0	2800	200.0	470.0	YF-75H	2
TL2 Stage 1	TL2	TIANB	-	25.0	3.35	100.0	-	1860.0	-	YF-102	3
TL2 Stage 2	TL2	TIANB	-	5.0	3.35	35.0	-	300.0	-	TH-11	3
KSLV-II-1	KSLV2	KARI	-	20.0	3.30	300.0	10000	2900.0	-	KRE-075	4
Smart Dispenser	SD	CALT	-	1.0	3.35	0.2	20	10.8	36.0	FG-47	1
Fregat	Fregat	NPOL	-	1.5	3.35	6.5	1100	19.6	877.0	S5.92	1
Fregat-SB	Fregat	NPOL	-	2.4	3.35	8.5	1050	19.6	1200.0	S5.92	1
SRMU	SRMU	ATKP	-	34.3	3.20	350.0	37000	7500.0	137.8	SRMU	1
GSOM-S200	GSOM	SDSC	-	26.2	3.20	236.0	31000	4800.0	130.0	S200	1
UA1205	Titan.SRM	UTC	SRM	25.9	3.11	226.2	33800	6227.2	115.0	UA1205	1
UA1206	Titan.SRM	UTC	SRM	27.6	3.11	251.2	40800	6227.2	114.0	UA1206	1
UA1207	Titan.SRM	UTC	SRM1207	34.1	3.11	319.3	51200	7120.0	120.0	UA1207	1
LR87	Titan	MARTD	-	16.0	3.05	76.2	4000	1470.0	138.0	LR87	2
LR87AJ5	Titan	MARTB	-	21.5	3.05	122.0	4000	2090.0	147.0	LR87AJ5	2
LR87AJ9	Titan	MARTD	-	23.8	3.05	116.6	5500	2353.0	147.0	LR87AJ11	2
LR87AJ11	Titan	MARTD	-	23.8	3.05	116.6	5500	2353.0	147.0	LR87AJ11	2
LR87AJ11A	Titan	MARTD	-	26.4	3.05	163.0	8000	2452.0	164.0	LR87AJ11A	2
LR91	Titan.St2	MARTD	-	8.0	3.05	28.9	1725	356.1	225.0	LR91	1
LR91AJ5	Titan.St2	MARTB	-	7.3	3.05	28.9	2400	440.0	182.0	LR91AJ5	1
LR91AJ9	Titan.St2	MARTD	-	9.6	3.05	29.2	2650	449.2	205.0	LR91AJ9	1
LR91AJ11	Titan.St2	MARTD	-	9.6	3.05	29.2	2650	449.2	205.0	LR91AJ11	1
LR91AJ11A	Titan.St2	MARTD	-	10.0	3.05	39.5	4500	472.2	223.0	LR91AJ11A	1
Transtage	Transtage	MARTD	-	4.6	3.05	12.5	2000	71.1	440.0	AJ10-138	2
Atlas A	Atlas	GDA	-	21.8	3.05	82.0	7000	0.0	125.0	-	1
Atlas B	Atlas	GDA	-	21.9	3.05	108.0	3850	267.0	253.6	MA-1/S	1
Atlas C	Atlas	GDA	-	21.9	3.05	108.0	3850	267.0	253.6	MA-1/S	1
Atlas D	Atlas	GDA	-	22.0	3.05	115.0	3400	253.0	281.0	MA-2/S	1
Atlas E	Atlas	GDA	-	20.0	3.05	116.0	3500	253.0	288.0	MA-2/S	1
Atlas F	Atlas	GDA	-	20.0	3.05	116.0	3500	253.0	312.0	MA-2/S	1
Atlas SLV-3	Atlas	GDA	SLV-3	21.0	3.05	118.0	3000	250.0	312.0	MA-5/S	1
Atlas SLV-3A	Atlas	GDA	-	24.0	3.05	142.0	3700	386.0	175.0	MA-5/S	1
Atlas SLV-3C	Atlas	GDA	-	21.9	3.05	128.5	4000	267.0	260.0	MA-5/S	1
Atlas SLV-3D	Atlas	GDA	-	21.2	3.05	128.5	4000	386.5	260.0	MA-5/S	1
Atlas G	Atlas	GDA	-	22.2	3.05	142.5	4240	386.5	266.0	MA-5/S	1
Atlas H	Atlas	GDA	-	21.2	3.05	142.5	4240	380.6	266.0	MA-5/S	1
Atlas I	Atlas	GDA	-	22.2	3.05	142.5	4240	380.6	266.0	MA-5/S	1
Atlas II	Atlas	GDA	-	24.9	3.05	163.5	10350	380.6	274.0	MA-5/S	1
Atlas III	Atlas	LMA	-	29.0	3.05	195.0	13725	4152.0	190.0	RD-180	1
Atlas A Booster	Atlas.Booster	GDA	-	4.5	3.05	3.5	3500	1335.0	128.0	MA-1/B-A	1
Atlas B Booster	Atlas.Booster	GDA	-	4.5	3.05	3.5	3500	1335.0	128.0	MA-1/B	1
Atlas C Booster	Atlas.Booster	GDA	-	4.5	3.05	3.5	3500	1335.0	128.0	MA-1/B	1
Atlas D Booster	Atlas.Booster	GDA	-	4.5	3.05	3.4	3400	1375.0	135.0	MA-2/B	1
Atlas E/F Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	1468.0	131.0	MA-3/B	1
SLV-3 Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	1495.0	140.0	MA-5/B	1
SLV-3D Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	1557.0	140.0	MA-5/B	1
SLV-3C Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	1646.0	140.0	MA-5/B	1
Atlas G Booster	Atlas.Booster	LMA	-	4.5	3.05	3.2	3200	1682.0	140.0	MA-5/B	1
Atlas MA-5 Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	1870.0	140.0	MA-5/B	1
Atlas II Booster	Atlas.Booster	LMA	-	4.5	3.05	3.2	3200	1909.0	140.0	MA-5A/B	1
Atlas Booster	Atlas.Booster	GDA	-	4.5	3.05	3.2	3200	2065.0	165.0	MA-5A/B	1
Blue Streak	BlueStreak	DEHAVS	-	17.7	3.05	95.0	6800	1512.0	161.0	RZ.2	2
Saturn S-V	Centaur	GDA	S-V	6.0	3.05	15.6	2000	0.0	0.0	RL10	2
Centaur	Centaur	GDA	Centaur	9.1	3.05	15.6	2000	134.0	430.0	RL10A-1	2
Centaur D	Centaur	GDA	Centaur	9.1	3.05	15.6	2000	134.0	430.0	RL10A-1	2
Centaur D-1A	Centaur	GDA	Centaur D1AR	9.6	3.05	16.3	2630	134.0	430.0	RL10A-3	2
Centaur D-1T	Centaur	GDA	-	9.6	3.05	16.3	2630	134.0	470.0	RL10A-3	2
Centaur I	Centaur	GDA	Centaur	9.2	3.05	15.0	1700	147.0	402.0	RL10A-3A	2
Centaur II	Centaur	GDA	Centaur	10.1	3.05	18.8	2053	147.0	488.0	RL10A-3A	2
Centaur IIA	Centaur	GDA	Centaur	10.1	3.05	19.0	2200	198.4	370.0	RL10A-4-1	2
Centaur IIIA	Centaur	LMA	Centaur	10.1	3.05	18.6	1720	99.2	740.0	RL10A-4-2	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Centaur IIIB/SEC	Centaur	LMA	Centaur	11.7	3.05	22.9	2130	99.2	740.0	RL10A-4-2	1
Centaur IIIB/C-1	Centaur	LMA	Centaur	11.7	3.05	22.9	2130	101.8	740.0	RL10C-1	1
Centaur IIIB/C-1-1	Centaur	LMA	Centaur	11.7	3.05	22.9	2130	101.8	740.0	RL10C-1-1	1
Centaur IIIB/DEC	Centaur	LMA	Centaur	11.7	3.05	22.9	2130	198.4	740.0	RL10A-4-1B	2
Centaur IIIB/DEC2	Centaur	LMA	Centaur	11.7	3.05	22.9	2130	198.4	740.0	RL10A-4-2	2
Ariane EAP P238	Vega	EADSL	-	31.6	3.01	277.6	39800	6719.0	129.0	EAP MPS P238	1
Ariane EAP P240	Vega	EADSL	-	31.6	3.01	280.0	40000	6719.0	130.0	EAP MPS P240	1
Vega P80FW	Vega	AVIO	-	11.2	3.01	97.1	8790	2100.0	106.8	P80FW	1
YGCS	YGCS	CALT	-	10.0	3.00	50.0	-	-	-	YF-115	1
New Shepard PM	NewShepard	BLOR	-	12.0	3.00	75.0	10000	1020.0	145.0	BE-3 (BLOR)	4
Sarmat St1	Sarmat	MAK	-	22.0	3.00	180.0	-	-	-	RD-273	3
Sarmat St2	Sarmat	MAK	-	6.0	3.00	25.0	-	-	-	Sarmat St2 Eng	1
8S671	R-36	YUZH	R-36 St1	18.8	3.00	122.0	6400	2648.0	120.0	RD-250	3
8S691	R-36	YUZH	R-36O St1	18.8	3.00	122.0	6400	2648.0	120.0	RD-250	3
11S691	R-36	YUZH	-	18.8	3.00	127.0	8300	3032.0	120.0	RD-250	3
15A14A	R-36	YUZH	R-36M St 1	22.3	3.00	210.0	15000	4522.0	130.0	RD-263	4
15A18A	R-36	YUZH	R-36M St 1	22.3	3.00	210.8	15000	4525.0	98.0	RD-273	3
8S672	R-36.St2	OKB586	R-36 St2	9.4	3.00	49.0	3700	902.0	160.0	RD-252	1
8S692	R-36.St2	OKB586	R-36O St2	9.4	3.00	49.0	3700	902.0	160.0	RD-252	1
11S692	R-36.St2	OKB586	-	10.1	3.00	53.3	4800	1010.0	160.0	RD-252	1
15A14B	R-36.St2	YUZH	R-36M St 2	6.0	3.00	49.0	3000	760.0	153.0	RD-0228	1
15A18B	R-36.St2	YUZH	R-36M St 2	5.7	3.00	49.3	3000	760.0	153.0	RD-0255	1
15A18-BR	BR	YUZH	R-36M St 3	1.0	3.00	8.2	900	18.6	600.0	RD 15A18-BR	1
8S641	R-16	OKB586	R-16A	16.0	3.00	110.0	10000	2610.0	90.0	RD-217	3
CZ-7A Stage 3	CZ3.St3	CALT	-	12.4	3.00	21.0	2800	160.0	615.0	YF-75	2
CZ-3A Stage 3	CZ3.St3	CALT	H18-YF75	12.4	3.00	21.0	2800	157.0	470.0	YF-75	2
CZ-8 Stage 2	CZ3.St3	CALT	H18-YF75	12.4	3.00	21.0	2800	157.0	470.0	YF-75	2
YZ-1	YZ-1	CALT	YZ-1	5.0	3.00	0.0	0	0.0	0.0	YF-50D	2
YZ-1A	YZ-1	CALT	YZ-1	5.0	3.00	0.0	0	0.0	0.0	YF-50D	2
YZ-1S	YZ-1	CALT	YZ-1	5.0	3.00	0.0	0	0.0	0.0	YF-50D	2
YZ-2	YZ-1	CALT	YZ-2	5.0	3.00	0.0	0	0.0	0.0	YF-50D	2
YZ-3	YZ-1	SAST	YZ-3	5.0	3.00	0.0	0	0.0	0.0	YF-50D	2
8K71A	Blok-A	OKB1	-	28.0	2.95	93.5	7495	941.0	330.0	8D75PS	1
8K74A	Blok-A	OKB1	-	28.0	2.95	100.0	7000	950.0	330.0	8D75	1
11S59A	Blok-A	OKB1	Blok A	28.0	2.95	105.4	6875	997.1	286.0	RD-108	1
14S53A	Blok-A	OKB1	Blok A	28.0	2.95	105.4	6875	1009.4	286.0	RD-108A	1
11S59A-S	Blok-A	OKB1	Blok A	28.0	2.95	105.4	6875	1009.4	286.0	RD-108PF	1
374BL01A-A	Blok-A	OKB1	Blok A	28.0	2.95	105.4	6875	1009.4	286.0	RD-108A	1
374BL01B-A	Blok-A	OKB1	Blok A	28.0	2.95	105.4	6875	1009.4	286.0	RD-108A	1
Soyuz-2-1V 132KS	Blok-A	PROG	-	26.9	2.95	129.0	9300	1754.0	292.1	NK-33A	1
IUS SRM-2	Orbus6	UTC	Orbus 6E	2.1	2.90	3.9	1005	76.5	104.0	Orbus 6E	1
CZ-4 Stage 3	L14	SAST	L14-YF40	1.9	2.90	15.2	1000	98.1	303.0	YF-40	1
CZ-4B Stage 3	L14	SAST	L14-YF40	1.9	2.90	15.2	1000	98.1	303.0	YF-40	1
CZ-4C Stage 3	L14	SAST	L14-YF40	1.9	2.90	15.2	1000	98.1	303.0	YF-40A	1
Angara URM	Angara	KHRU	-	25.7	2.90	142.4	9800	2086.0	337.5	RD-191	1
Angara URM-1	Angara	KHRU	-	27.7	2.90	142.4	9800	2086.0	337.5	RD-191	1
Angara-1.2 Stage 2	Angara	KHRU	-	1.0	2.90	30.0	4000	294.3	359.0	RD-0124A	1
Angara AM	Angara.AM	KHRU	-	1.0	2.90	-	0	1.6	-	11D458	4
Naro Stage 1	Angara	KHRU	-	25.7	2.90	142.4	9800	1670.0	337.5	RD-151	1
GS1-S125	PSLV	VSSC	-	20.3	2.80	156.0	27000	4700.0	100.0	S125	1
GS1-S139	PSLV	VSSC	PS-1	20.0	2.80	177.0	30000	4910.0	105.0	S139	1
S139	PSLV	VSSC	PS-1	20.0	2.80	177.0	30000	4910.0	105.0	S139	1
S125	PSLV	VSSC	PS-1	20.0	2.80	168.0	30000	4430.0	105.0	S125	1
GS2-HTVE	ISRO-L40	VSSC	-	11.6	2.80	44.3	4800	846.8	136.0	HTVE	1
GS2	ISRO-L40	VSSC	-	11.6	2.80	42.8	4800	799.0	136.0	Vikas	1
PS2	ISRO-L40	VSSC	PS-2	12.5	2.80	45.8	5300	724.0	158.0	Vikas	1
GSOM	ISRO-L40	VSSC	L40	19.7	2.10	46.0	6000	680.0	160.0	Vikas	1
ISRO TV	ISRO-L40	VSSC	L40	19.7	2.10	46.0	6000	680.0	160.0	Vikas	1
CUS12	GS3	VSSC	-	8.7	2.80	15.0	2200	73.6	720.0	ICE	1
CUS15	GS3	VSSC	-	8.7	2.80	14.6	2200	73.6	720.0	ICE	1
15KRB	GS3	VSSC	-	8.7	2.80	14.6	2200	73.6	720.0	KVD-1M	1
12KRB	GS3	KHRU	C12	8.7	2.80	15.0	2500	73.5	720.0	KVD-1M	1
Ikar	Ikar	PROG	-	2.6	2.72	3.1	2344	29.4	600.0	17D61	1
Volga	Ikar	PROG	-	1.0	2.70	1.8	900	2.9	882.0	Volga	1
8K75A	R-9	OKB1	-	14.6	2.70	61.6	4000	1600.0	108.0	RD-111	1
8K75B	8K75B	OKB1	-	7.0	2.70	15.9	2500	300.0	140.0	RD-0106	1
8K71	R-7	OKB1	-	19.0	2.70	10.8	850	250.0	120.0	8D74PS	1
8K74	R-7	OKB1	-	19.0	2.70	10.8	850	250.0	120.0	8D74	1
11S59	R-7	OKB1	Blok BVGD	19.8	2.68	44.5	3915	992.0	120.0	RD-107	1
14S53	R-7	OKB1	Blok BVGD	19.8	2.68	44.5	3915	992.0	120.0	RD-107A	1
374BL01A	R-7	OKB1	Blok BVGD	19.8	2.68	44.5	3915	992.0	120.0	RD-107A	1
374BL01B	R-7	OKB1	Blok BVGD	19.8	2.68	44.5	3915	992.0	120.0	RD-107A	1
Jupiter	Jupiter	CHRY/ABMA	-	14.6	2.67	54.4	5400	660.0	180.0	S-3D	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
8K78I	Blok-I	OKB1	-	9.4	2.66	25.5	2350	298.0	240.0	RD-0107	1
11A57I	Blok-I	OKB1	Blok I	6.7	2.66	23.7	2350	298.0	240.0	RD-0110	1
14S54/RD-0110	Blok-I	OKB1	-	6.7	2.66	25.2	2410	298.0	240.0	RD-0110	1
14S54	Blok-I	OKB1	-	6.7	2.66	26.0	2800	294.0	359.0	RD-0124	1
14S54 (N)	Blok-I	OKB1	-	6.7	2.66	26.0	2800	294.0	359.0	RD-0124N	1
374BL02A	Blok-I	OKB1	-	6.7	2.66	25.2	2410	298.0	240.0	RD-0110	1
374BL02B	Blok-I	OKB1	-	6.7	2.66	26.0	2800	294.0	359.0	RD-0124	1
11S510	Blok-I	OKB1	-	6.7	2.66	25.2	2410	298.0	240.0	RD-0110	1
11S510 (F)	Blok-I	OKB1	-	7.6	2.66	25.2	2410	298.0	240.0	RD-0110	1
ZK-1A Stage 1	ZK-1	ARMT	-	16.0	2.65	35.0	-	2067.0	-	ZK-1A-1	1
ZK-1A Stage 2	ZK-1	ARMT	-	12.0	2.65	35.0	-	1081.0	-	ZK-1A-2	1
YL-1 Stage 0	ZK-1	ARMT	-	12.0	2.65	50.0	-	1500.0	-	YL-1-0	1
YL-1 Stage 1	ZK-1	ARMT	-	12.0	2.65	50.0	-	2550.0	-	YL-1-1	1
YL-1 Stage 2	ZK-1	ARMT	-	10.0	2.65	50.0	-	1000.0	-	YL-1-2	1
Abid St1	Abid	IQ	-	8.0	2.64	25.0	3000	1500.0	90.0	Abid	5
Hwasong-17 Stage 1	Hwasong-15	KPA	-	18.0	2.60	80.0	-	0.0	3200.0	HS-17	4
Hwasong-17 Stage 2	Hwasong-15	KPA	-	5.0	2.60	3.0	-	-	800.0	HS-17	1
Ariane L33	Ariane.St2	DASA/ERNO	L33	11.6	2.60	38.9	3500	785.0	126.0	Viking IVB	1
Ariane H8	Ariane.St3	AELM	H8	10.2	2.60	9.7	1450	61.6	563.0	HM-7	1
Ariane H10	Ariane.St3	AELM	H10	11.8	2.60	12.5	1740	62.7	720.0	HM-7B	1
Ariane H10+	Ariane.St3	AELM	H10+	11.8	2.60	12.8	1740	62.7	750.0	HM-7B	1
Ariane H10-3	Ariane.St3	AELM	H10-3	12.1	2.60	13.5	1780	62.7	780.0	HM-7B	1
KSLV-II Stage 2	KSLV2-2	KARI	-	15.0	2.60	50.0	1000	788.0	148.0	KRE-075 V	1
KSLV-II Stage 3	KSLV2-2	KARI	-	3.5	2.60	-	100	68.7	498.0	KRE-007 V	1
M-35	M-35	NISST	-	4.0	2.60	17.2	2200	445.0	129.0	M-35	1
8K72EL	Blok-E	OKB1	-	2.5	2.58	8.1	1110	49.4	450.0	RO-5	1
8K72E	Blok-E	OKB1	-	3.6	2.58	8.0	1440	49.4	450.0	RO-5	1
8K72KE	Blok-E	OKB1	-	3.6	2.58	8.0	1440	54.5	430.0	RO-7	1
8A92E	Blok-E	OKB1	-	3.6	2.58	8.0	1440	54.5	430.0	RO-7	1
8A92ME	Blok-E	OKB1	-	3.6	2.58	8.0	1440	54.5	430.0	RO-7	1
A-350 Booster	A-350	SKB30	-	8.0	2.57	15.0	1000	-	5.0	A-350 Booster	1
A-350	A-350	SKB30	-	10.0	2.57	15.0	1000	-	40.0	A-350 Sustainer	1
A-350Zh Booster	A-350	SKB30	-	7.9	2.57	15.0	1000	-	5.0	5S47	1
A-350Zh	A-350	SKB30	-	15.0	2.57	15.0	1000	-	40.0	5D22	1
A-925	A-350	FAKEL	-	7.0	2.57	15.0	1000	-	40.0	51T6B ZhRD	1
A-925 Booster	A-350	FAKEL	-	8.0	2.57	15.0	1000	-	5.0	51T6 Motor	1
Nudol'	A-350	ALMAN	-	7.0	2.60	15.0	-	-	-	Nudol' St 2	1
Nudol' Booster	A-350	ALMAN	-	8.0	2.60	15.0	-	-	-	Nudol' St 1	1
M-14	MV	NISST	-	14.1	2.51	87.0	12070	3780.0	49.0	M-14	1
M-24	M-24	NISST	-	6.6	2.51	38.0	3410	1240.0	71.0	M-24	1
M-25	M-24	NISST	-	6.6	2.51	38.0	3410	1240.0	71.0	M-25	1
Briz-KM	Briz	KHRU	-	2.5	2.50	6.7	1700	19.6	1000.0	S5.98M	1
UR-100NA	UR-100N	KHRU	-	17.2	2.50	88.0	5000	2070.0	121.0	RD-0233	4
UR-100NB	UR-100N.St2	KHRU	-	3.9	2.50	15.0	2000	240.0	183.0	RD-0235	1
ASR SRB-A	H2.SRB	NISST	-	11.7	2.60	76.5	8700	2271.0	116.0	H-II SRB-A3	1
H-II SRB-A	H2.SRB	NISST	-	15.2	2.50	75.0	10000	2250.0	100.0	H-II SRB-A	1
H-II SRB-A3	H2.SRB	NISST	-	15.1	2.50	76.5	10500	2305.0	120.0	H-II SRB-A3	1
H3 SRB-3	H2.SRB	NISST	-	14.6	2.50	76.2	9000	2158.0	110.0	H3 SRB-3	1
TL2 Stage 3	TL2-3	TIANB	-	2.0	2.50	0.9	-	3.0	-	TH-31	3
Thor DM-18	Thor	DAC	-	18.2	2.44	48.8	3125	667.0	160.0	MB-3	1
Thor DM-18A	Thor	DAC	-	18.6	2.44	48.8	3125	667.0	160.0	MB-3	1
Thor DM-18C	Thor	DAC	-	18.6	2.44	48.8	3125	734.0	170.0	MB-3-2	1
Thor DM-21	Thor	DAC	-	17.1	2.44	47.8	3125	779.0	170.0	MB-3-2	1
Thor DSV-2A	Thor	DACHB	-	17.1	2.44	47.8	3125	779.0	170.0	MB-3-2	1
Thor DSV-2C	Thor	DACHB	TA Thor DSV-2C	17.1	2.44	48.0	3175	760.0	170.0	MB-3-2	1
LT Thor DSV-2L-1A	Thor	DACHB	LT Thor DSV-2L	21.0	2.44	70.3	3715	860.0	215.0	MB-3-3	1
LT Thor DSV-2L-1B	Thor	DACHB	LT Thor DSV-2L	20.3	2.44	70.3	3715	860.0	215.0	MB-3-3	1
LT Thor DSV-2L-1C	Thor	DACHB	LT Thor DSV-2L	20.3	2.44	70.3	3715	860.0	215.0	MB-3-3	1
LT Thor N	Thor	DACHB	-	20.3	2.44	70.3	3715	860.0	215.0	MB-3-3	1
ELT Thor N	Thor	DACHB	-	22.4	2.44	85.8	4400	860.0	270.0	MB-3-3	1
ELT Thor DSV-2L	Thor	DACHB	-	22.4	2.44	84.1	4059	860.0	222.0	MB-3-3	1
ELT Thor DSV-2L-1D	Thor	DACHB	-	22.4	2.44	84.1	4059	860.0	222.0	MB-3-3	1
ELT Thor DSV-2L-1E	Thor	DACHB	-	22.4	2.44	84.1	4059	860.0	222.0	MB-3-3	1
ELT Thor DSV-2W-1	Thor	DACHB	-	22.8	2.44	84.4	4360	912.0	223.0	RS-27	1
ELT Thor DSV-2W	Thor	DACHB	ELT Thor 3900	22.4	2.44	84.4	4360	1030.0	223.0	RS-27	1
EELT Thor	Thor	DACHB	-	26.1	2.44	101.8	5680	1085.8	261.0	RS-27A	1
Delta III Stage 1	Thor	BOHB	-	20.0	2.44	102.4	6820	1085.8	261.0	RS-27A	1
LE-5	LE-5	MHITO	-	9.3	2.44	10.6	1800	103.0	370.0	LE-5	1
UR-100NU APB	UR-100NU.St3	KHRU	-	0.5	2.40	-	-	4.9	150.0	RD-0237	1
Strela APB	UR-100NU.St3	KHRU	-	1.3	2.40	-	-	4.9	150.0	RD-0237	1
R-39 St 1	R-39	YUZH/PAVKH	-	9.7	2.40	53.7	-	2060.0	-	3D65	1
R-39 St 2	R-39.St2	MAK	-	5.0	2.40	25.0	-	-	-	R-39 St 2	1
R-39 St 3	R-39.St3	MAK	-	4.0	2.40	10.0	-	-	-	R-39 St 3	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
3M91 St 1	R-39	YUZH/PAVKH	-	9.7	2.40	30.0	-	2060.0	-	3D65	1
3M91 St 2	R-39.St2	MAK	-	5.0	2.40	15.0	-	-	-	R-39 St 2	1
3M91 St 3	R-39.St3	MAK	-	4.0	2.40	5.0	-	-	-	R-39 St 3	1
15Zh44 St 1	R-39	PAVKH	-	9.7	2.40	53.7	-	2060.0	-	15D206	1
15Zh44 St 2	RT-23.St2	PAVKH	-	4.8	2.40	25.0	-	1050.0	-	15D207	1
15Zh52 St 1	R-39	PAVKH	-	9.7	2.40	53.7	-	2060.0	-	15D206	1
15Zh52 St 2	RT-23.St2	PAVKH	-	4.8	2.40	25.0	-	1050.0	-	15D207	1
15Zh60 St 1	R-39	PAVKH	-	9.7	2.40	53.7	-	2060.0	-	15D305	1
15Zh60 St 2	RT-23.St2	PAVKH	-	4.8	2.40	25.0	-	1050.0	-	15D339	1
15Zh61 St 1	R-39	PAVKH	-	9.7	2.40	53.7	-	2060.0	-	15D206	1
15Zh61 St 2	RT-23.St2	PAVKH	-	4.8	2.40	25.0	-	1050.0	-	15D290	1
RT-23 St 3	RT-23.St3	ISKRP	-	3.6	2.40	15.0	-	206.0	-	RT-23-3	1
Hwasong-15 Stage 1	Hwasong-15	KPA	-	15.0	2.40	50.0	-	-	800.0	HS-15	1
Hwasong-15 Stage 2	Hwasong-15	KPA	-	2.1	2.40	3.0	-	-	224.0	HS-15-2	1
Cheonlima-1 Stage 1	Hwasong-15	NADA	-	7.0	2.40	50.0	-	-	-	CL1-1	1
NK Kerolox Stage 1	Hwasong-15	NADA	-	7.0	2.40	50.0	-	-	-	NK Kero	1
HS-18 St1	Hwasong-18	KPA	-	11.3	2.40	25.0	-	-	-	HS-18-S1	1
HS-19 St1	Hwasong-18	KPA	-	11.3	2.40	25.0	-	-	-	HS-18-S1	1
Taepo Dong 2	Unha	KPA	-	14.0	2.40	60.0	5000	1200.0	120.0	TD-2	4
Simorgh Stage 1	Unha	IR	-	17.8	2.40	60.0	-	1400.0	-	-	1
S3	Kosmos-3.St2	YUZH	-	6.0	2.40	20.1	1500	157.0	335.0	11D49	1
S3M	Kosmos-3.St2	POL	-	6.0	2.40	20.1	1435	157.0	335.0	11D49	1
R-14	R-14	YUZH	-	22.4	2.40	87.2	5300	1745.0	130.0	RD-216	1
R-14 65S3A	R-14	YUZH	-	22.4	2.40	87.2	5300	1745.0	130.0	RD-216	1
R-14 11K65A	R-14	YUZH	-	22.4	2.40	87.2	5300	1745.0	130.0	RD-216	1
R-14 11K65MA	R-14	POL	-	22.4	2.40	87.2	5300	1745.0	130.0	RD-216	1
8S642	R-16.St2	OKB586	R-16B	13.0	2.40	27.0	3000	882.0	125.0	RD-219	1
Blok-L	Blok-L	OKB1	-	3.2	2.40	7.3	1160	66.7	250.0	S1.5400	1
Blok-ML	Blok-L	NPOL	-	3.2	2.40	6.2	999	66.7	250.0	S1.5400	1
Blok SO-L	Blok-L	NPOL	-	3.2	2.40	6.2	999	66.7	250.0	S1.5400	1
Blok-2BL	Blok-L	NPOL	-	3.2	2.40	5.8	902	66.7	250.0	S1.5400	1
Blok-VL	Blok-L	NPOL	-	3.2	2.40	5.8	902	66.7	250.0	S1.5400	1
Blok-MVL	Blok-L	NPOL	-	3.2	2.40	5.8	902	66.7	250.0	S1.5400	1
SR119	MX.St2	AJSP	SR119	5.3	2.35	27.7	3175	1223.0	54.0	SR119	1
SR120	MX.St3	HERC	SR120	2.3	2.35	7.8	635	289.0	60.7	SR120	1
GCA/Orion 38	Pegasus.St3	ATKH	-	2.1	2.35	1.2	500	36.0	69.6	Orion 38	1
Castor 30	MX	ATK	-	3.5	2.35	14.0	1220	260.0	136.0	Castor 30	1
Castor 30B	MX	ATK	-	4.2	2.35	14.0	1083	293.4	128.0	Castor 30B	1
Castor 30XL	MX	ATK	-	6.0	2.35	26.3	1220	260.0	166.0	Castor 30XL	1
Peacekeeper PBPS	MX.St4	RDYNE	-	1.1	2.35	1.3	550	11.8	168.0	RS-34	1
TU-903	MX	THKU	-	8.4	2.35	49.0	4300	2204.0	56.0	TU-903	1
SR118	MX	THKU	TU904	8.4	2.35	53.4	4400	2225.0	78.8	SR118	1
Terran 1 St 1	Terran1	RELSP	-	24.3	2.30	55.0	6000	920.0	180.0	Aeon 1	9
Terran 1 St 2	Terran1	RELSP	-	8.1	2.30	20.0	2000	126.0	239.0	AeonVac	1
Castor 120	MX	THKU	-	10.7	2.30	53.1	4450	1604.0	83.4	Castor 120	1
IUS SRM-1	Orbus21	UTC	Orbus 21	3.5	2.30	10.9	1115	186.0	153.0	Orbus 21D	1
Orbus 21D	Orbus21	UTC	ESBM	3.0	2.30	10.8	1030	187.0	150.0	Orbus 21D	1
OAM	OAM	PRIMX	-	1.0	2.30	0.7	360	0.9	550.0	MR-107	4
MSBS 501	M51	AELM	-	6.5	2.30	30.0	2500	900.0	60.0	MSBS 501	1
MSBS 502	M51	AELM	-	2.3	2.30	10.0	800	300.0	70.0	MSBS 502	1
MSBS 503	M51	AELM	-	1.3	2.30	5.0	100	100.0	40.0	MSBS 503	1
MR-UR-100 St 1	MR-UR-100	YUZH	-	14.3	2.25	59.0	5000	1236.0	-	RD-268	1
Perimetr Stage 1	MR-UR-100	YUZH	-	14.9	2.25	59.0	5000	1236.0	-	RD-268	1
CZ-3 Stage 3	CZ3.St3	CALT	H8-YF73	7.5	2.25	10.5	2000	44.1	800.0	YF-73	1
CZ Booster	CZ.LB	CALT?	LB40-YF25	15.3	2.25	37.7	3200	740.4	128.0	YF-25	1
CZ-3BE Booster	CZ.LB	CALT?	LB41-YF25	16.1	2.25	41.0	3200	740.4	128.0	YF-25	1
CZ-K2-1	CZ.LB	CALT	-	26.5	2.25	81.5	6000	1200.0	185.0	YF-100	1
DF3-YF2A	DF3	CALT	-	18.0	2.25	64.1	4100	1224.0	130.0	YF-2A	4
DF4-YF3	CZ1.St2	CALT	-	5.4	2.25	15.0	2700	306.0	110.0	YF-3	1
CZ-K2-2	CZ1.St2	CALT	-	8.0	2.25	15.0	3000	-	-	YF-115	1
CZ-K2-3	CZ1.St2	CALT	-	4.0	2.25	-	1000	-	-	YF-85	4
Burya	Burya	NPOL	La-350	18.0	2.20	40.8	13000	-	0.0	-	1
S5M	S5M	YUZH	-	2.8	2.20	4.6	1600	79.0	125.0	RD-861	1
M-34	M-34	NISST	-	3.4	2.20	11.6	1000	290.0	102.0	M-34	1
M-34c	M-34	NISST	-	4.3	2.20	12.3	1500	327.0	105.0	M-34c	1
PAL	PAL	DASA	-	18.6	2.17	44.0	4500	758.5	140.0	Viking VI	1
MR-UR-100 St 2	MR-UR-100.St2	YUZH	-	3.2	2.15	10.0	1000	142.0	195.0	15D169	1
Perimetr Stage 2	MR-UR-100.St2	YUZH	-	3.2	2.15	10.0	1000	142.0	195.0	15D169	1
MR-UR-100 BR	BR	YUZH	-	1.0	2.15	1.0	500	-	-	15D171	1
Trident	Trident.St3	UTC?	-	2.0	2.13	1.1	700	35.0	-	Trident Motor	1
Trident D-5 Stage 1	Trident	LMSC	-	7.2	2.11	39.1	2242	-	64.0	D-5-1	1
Trident D-5 Stage 2	Trident.St2	LMSC	-	2.9	2.11	11.8	790	-	65.0	D-5-2	2
Coralie	Coralie	SEREB	-	6.5	2.01	12.0	2400	268.0	105.0	Coralie	4

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Astris	Astris	ERNO	-	3.8	2.03	3.6	800	22.5	361.0	Astris	1
Spectrum Stage 1	Spectrum	ISAR	-	17.0	2.00	80.0	-	675.0	150.0	Aquila SL	9
Spectrum Stage 2	Spectrum	ISAR	-	5.0	2.00	30.0	-	94.0	300.0	Aquila Vac	1
PS3	SSLV	VSSC	PS-3	3.6	2.00	8.4	1100	324.0	83.0	PS3	1
HPS3	SSLV	VSSC	PS-3	3.6	2.00	8.4	1100	324.0	83.0	PS3	1
PS4	PSLV.St4	VSSC	PS-4	2.6	2.00	2.9	920	14.8	425.0	LVS	2
HPS4	PSLV.St4	VSSC	PS-4	2.6	2.00	2.9	920	14.8	425.0	LVS	2
Agni III	Agni3	DRDO	-	7.7	2.00	33.0	2970	1040.0	75.0	Agni III	1
Agni V	Agni3	DRDO	-	7.7	2.00	33.0	2970	1040.0	75.0	Agni III	1
Agni III Stage 2	Agni3	DRDO	-	3.1	2.00	14.0	1820	314.0	110.0	Agni III S2	1
Agni V Stage 2	Agni3	DRDO	-	3.1	2.00	14.0	1820	314.0	110.0	Agni III S2	1
Agni V Stage 3	Agni3	DRDO	-	3.0	2.00	10.0	500	-	-	Agni V S3	1
SSLV SS1	SSLV	ISRO	-	22.5	2.00	89.0	8000	2600.0	-	S85	1
SSLV SS2	SSLV	ISRO	-	3.2	2.00	8.5	500	250.0	-	S7	1
8S816	UR-100	KHRU	-	17.2	2.00	88.0	5000	2070.0	121.0	RD-0216	4
8S817	UR-100.St2	KHRU	-	3.9	2.00	15.0	2000	240.0	183.0	15D13	1
Briz-K	Briz	KHRU	14S12	2.5	2.00	6.7	1700	19.6	1000.0	S5.98M	1
Black Arrow	BlackArrow	SROE/RAE	-	5.8	2.00	14.1	1070	251.0	125.0	Gamma 8	1
Eris Stage 1	Eris	GILM	-	13.0	2.00	15.0	-	-	400.0	Sirius	4
YL-1 Stage 3	DF-31	ARMT	-	2.0	2.00	10.0	-	-	-	YL-1-3	1
ZK-1A Stage 3	DF-31	ARMT	-	8.0	2.00	35.0	-	439.3	-	ZK-1A-3	1
CZ-6A Booster	DF-31	ARMT	-	10.0	2.00	35.0	1200	-	-	CZ-6A Booster	1
CZ-11-1	DF-31	SLREC	-	6.0	2.00	40.0	5000	-	-	CZ-11-1	1
CZ-11-2	DF-31	ARMT	-	6.0	2.00	15.0	-	-	-	CZ-11-2	1
DF-31 St1	DF-31	ARMT	-	8.0	2.00	35.0	-	-	-	DF-31-1	1
DF-31 St2	DF-31	ARMT	-	4.0	2.00	10.0	-	-	-	DF-31-2	1
DF-31 St3	DF-31	ARMT	-	2.0	2.00	2.0	-	-	-	DF-31-3	1
DF-41 St1	DF-31	ARMT	-	8.0	2.00	35.0	-	-	-	DF-41-1	1
DF-41 St2	DF-31	ARMT	-	4.0	2.00	10.0	-	-	-	DF-41-2	1
DF-41 St3	DF-31	ARMT	-	2.0	2.00	2.0	-	-	-	DF-41-3	1
KZ-11 St1	DF-31	ARMT	-	8.0	2.00	35.0	-	-	-	DF-41-1	1
KZ-11 St2	DF-31	ARMT	-	4.0	2.00	10.0	-	-	-	DF-41-2	1
KZ-11 St3	DF-31	ARMT	-	2.0	2.00	2.0	-	-	-	DF-41-3	1
8K95A	RT-2	OKB1	-	4.8	1.95	19.0	-	900.0	30.0	RT-1-1	1
MSBS 401	MSBS	AELM	-	5.4	1.93	22.5	2500	900.0	60.0	SEP 401	1
MSBS 402	MSBS.St2	AELM	-	2.0	1.93	8.8	800	300.0	70.0	SEP 402	1
MSBS 403	MSBS.St3	AELM	-	1.1	1.93	1.5	100	100.0	40.0	SEP 403	1
Zefiro 40	Zefiro	AVIO	-	7.6	2.30	39.2	3006	1304.0	92.9	Zefiro-40C	1
Zefiro 23	Zefiro	AVIO	-	8.5	1.91	26.5	2653	871.0	77.0	Zefiro 23	1
Zefiro 9A	Zefiro	AVIO	-	4.4	1.91	11.5	1386	260.0	120.0	Zefiro 9A	1
Zefiro 9	Zefiro	AVIO	-	4.4	1.91	11.5	1386	260.0	120.0	Zefiro 9A	1
R-29 St 1	R-29	MAK	-	7.7	1.90	20.0	-	682.0	74.0	RD-0244	1
R-29R St 1	R-29	MAK	-	7.7	1.90	20.0	-	682.0	74.0	RD-0244	1
R-29RM St1	R-29	MAK	-	7.7	1.90	20.0	-	682.0	74.0	RD-0244	1
R-29RM St2	R-29.St2	MAK	-	4.9	1.90	10.0	-	-	94.0	RD R-29RM St 2	1
R-29RM St3	R-29.St3	MAK	-	2.8	1.90	10.0	-	-	87.0	RD R-29RM St 3	1
HS-18 St2	Hwasong-18.S2	KPA	-	10.0	1.90	12.0	-	-	-	HS-18-S2	1
HS-18 St3	Hwasong-18.S2	KPA	-	2.0	1.90	3.0	-	-	-	HS-18-S3	1
Trident C-4 Stage 1	Trident	LMSC	-	4.4	1.88	12.1	-	-	-	C4-1	1
Trident C-4 Stage 2	Trident.St2	LMSC/HERC	-	2.5	1.88	8.0	-	-	-	C4-2	1
C-3 Stage 1	Poseidon	LMSC	-	4.8	1.88	10.0	-	-	-	C3-1	1
C-3 Stage 2	Poseidon.St2	LMSC	-	2.5	1.88	7.0	-	-	-	C3-2	1
8K98A	RT-2	OKB1/PERM	-	8.7	1.84	34.6	4000	893.0	75.4	15D23	1
8K98PA	RT-2	ARSL	-	9.2	1.84	34.6	4000	981.0	75.4	15D23P	1
LauncherOne Stage 1	LauncherOne	VORB	-	14.7	1.83	21.1	1900	308.0	184.0	NewtonThree	1
RS1 S1	RS1	ABLSS	-	16.0	1.83	30.0	-	503.0	160.0	ABL E2	9
RS1 S2	RS1	ABLSS	-	5.0	1.83	15.0	-	58.0	420.0	ABL E2	1
Firefly Alpha St1	Alpha	FFLY	-	18.8	1.82	45.0	2895	736.1	163.0	Reaver 1	4
Firefly Alpha St2	Alpha	FFLY	-	5.8	1.82	18.0	908	70.1	314.0	Lightning 1	1
H-II SRB	H2.SRB	NISST	-	23.4	1.80	70.4	11200	1550.0	94.0	H-II SRB	1
15Zh58A	Topol	MITT	Topol'-1	8.5	1.80	26.0	3000	980.0	60.0	15Zh58A	1
15Zh58MA	Topol	MITT	Topol'-M1	8.5	1.80	26.0	3000	980.0	60.0	15Zh58A	1
R-29 St 2	R-29.St2	MAK	-	3.1	1.80	10.0	-	-	-	RD R-29 St 2	1
R-29R St 2	R-29.St2	MAK	-	3.1	1.80	10.0	-	-	-	RD R-29 St 2	1
8K99A	RT-20P	YUZH	-	6.1	1.80	19.0	2450	600.0	65.0	15D15	1
8K94	RT-20P.St2	YUZH	-	8.4	1.80	9.8	900	147.0	215.0	RD-857	1
CZ-11-3	CZ11-3	ARMT	-	2.0	1.80	4.0	-	-	-	CZ-11-3	1
RT-21 St1	Temp-2S	MITT	-	8.6	1.79	26.6	-	-	63.0	RD RT-21 (1)	1
Redstone	Redstone	CHRY	-	13.4	1.78	33.0	3000	370.0	155.0	Redstone A-7	1
Redstone MRLV	Redstone	CHRY	-	15.5	1.78	33.0	3000	370.0	175.0	Redstone A-7	1
Cheonlima-1 Stage 2	Hwasong-12	NADA	-	6.6	1.80	12.0	-	-	-	CL1-2	1
Cheonlima-1 Stage 3	Hwasong-12	NADA	-	5.2	1.80	10.0	-	-	-	CL1-3	1
Hwasong-12 Stage 1	Hwasong-12	KPA	-	11.8	1.75	10.0	-	-	151.0	Hwasong-12	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Hwasong-12A Stage 1	Hwasong-12	KPA	-	11.8	1.75	10.0	-	-	151.0	Hwasong-12	1
Hwasong-8 Stage 1	Hwasong-12	KPA	-	10.0	1.75	10.0	-	-	151.0	Hwasong-12	1
AJ10-118FJ	Delta2	MDAC/AJGC	Delta AJ10-118FJ	6.3	1.75	6.0	780	44.1	430.0	AJ10-118FJ	1
Delta/0020	Delta2	MDAC	Delta AJ10-118K	6.0	1.75	6.9	950	43.7	431.0	AJ10-118K	1
EPKM	SD	CALT	-	2.8	1.70	6.0	541	177.0	87.0	FG-46	1
Falcon 1	Falcon1	SPX	-	13.0	1.70	22.9	1360	378.0	169.0	Merlin 1C	1
Falcon 1 St 2	Falcon1	SPX	-	4.5	1.70	4.5	544	33.0	418.0	Kestrel	1
SSLV SS3	SSLV-SS3	ISRO	-	2.8	1.70	5.0	400	160.0	-	S4	1
SSLV VTM	SSLV-VTM	ISRO	-	1.0	1.70	1.0	200	-	-	VTM	12
M55E1	Minuteman	THKU	-	7.5	1.68	22.9	2320	892.0	60.0	TU-122	1
M55E1-ATK	Minuteman	THKU	-	7.5	1.68	22.9	2522	892.0	60.0	TU-122-ATK	1
M55A1	Minuteman	THKU	-	7.5	1.68	22.9	2500	792.0	59.3	M55A1	1
R-5	R-5	OKB1	-	20.7	1.65	28.6	4400	500.0	115.0	RD-103	1
V-2	V-2	WEHR	-	12.0	1.65	12.8	4000	312.0	70.0	A-4	1
V-2-Ram	V-2	ABMA	-	12.0	1.65	12.8	4000	312.0	70.0	A-4	1
R-1	V-2	NII88	-	14.1	1.65	13.4	4000	267.0	65.0	RD-100	1
R-2	V-2	OKB1	-	17.0	1.65	20.3	4380	363.0	85.0	RD-101	1
DF-1	V-2	CALT	-	14.1	1.65	14.0	4000	270.0	65.0	DF-1	1
DF-2	V-2	CALT	-	20.0	1.65	30.0	4000	300.0	-	YF-1	1
DF-2A	V-2	CALT	-	20.0	1.65	30.0	4000	300.0	-	YF-1	1
A-1	V-2	OKB1	GR	17.0	1.65	20.0	4000	363.0	85.0	RD-101	1
R-12	R-12	OKB586	-	18.0	1.65	34.6	4810	625.6	125.0	RD-214	1
R-12 63S1A	R-12	OKB586	-	18.0	1.65	39.5	4810	625.6	125.0	RD-214	1
R-12 63S1MA	R-12	OKB586	-	18.0	1.65	39.5	4810	625.6	125.0	RD-214	1
R-12 11K63A	R-12	OKB586	-	18.0	1.65	39.5	4810	625.6	125.0	RD-214	1
S1	Kosmos-2.St2	YUZH	-	7.8	1.65	8.6	840	105.0	250.0	RD-119	1
S1M	Kosmos-2.St2	YUZH	-	7.8	1.65	8.6	840	105.0	250.0	RD-119	1
LE-3	LE-3	MHI	-	5.4	1.62	5.8	500	54.0	250.0	LE-3	1
PAM-D2	PAM-D2	THKU	-	2.7	1.60	3.5	230	85.0	118.0	Star 63D	1
GEM-63	GEM63	OATKH	-	20.1	1.60	49.3	5100	1361.0	91.0	GEM-63	1
GEM-63XL	GEM63	OATKH	-	22.0	1.60	53.4	5400	2044.0	80.0	GEM-63XL	1
Atlas V SRM	AtlasVSRM	AJSP	-	19.5	1.55	46.2	3600	1361.0	91.0	AJ-60A	1
15Zh58B	Topol.St2	MITT	Topol'-2	6.0	1.55	13.0	1500	490.0	64.0	15Zh58B	1
15Zh58MB	Topol.St2	MITT	Topol'-M2	6.0	1.55	13.0	1500	490.0	64.0	15Zh58B	1
R-31 St 1	R-31	ARSL	-	6.3	1.54	17.5	2000	579.0	84.0	3D17	1
R-31 St 2	R-31.St2	ARSL	-	3.1	1.54	6.9	800	233.0	74.0	R-31 St 2	1
R-31 BS	BR	ARSL	-	2.5	1.54	1.3	200	4.0	101.0	R-31BS	4
GEM-60	GEM60	ATKH	-	16.2	1.52	33.2	3850	851.5	90.0	GEM-60	1
Agena A	Agena	LMSC	-	3.0	1.52	3.8	400	69.0	120.0	Bell 8048	1
Agena B	Agena	LMSC	-	6.2	1.52	7.0	750	71.0	480.0	Bell 8096	1
Agena D	Agena	LMSC	-	6.2	1.52	7.0	750	71.0	480.0	Bell 8096	1
SEP 901	P-10	SUD/SEP	P-10	4.5	1.51	10.0	-	440.0	-	SEP 901	1
SEP 904	P-10	SUD/SEP	P-10	4.5	1.51	10.0	-	450.0	50.0	SEP 904	1
SEP 903	P-10	SEP	P-10	4.7	1.51	10.0	-	440.0	-	SEP 903	1
SEP 902	P-16	SUD/SEP	P-16	6.9	1.51	16.0	-	540.0	-	SEP 902	1
Rita I	Rita	SUD/SEP	Rita 1	2.3	1.51	4.8	350	180.0	62.0	P4	1
Rita II	Rita	SUD/SEP	Rita 2	3.0	1.51	6.0	-	320.0	52.0	Rita II	1
Eris Stage 2	Eris.St2	GILM	-	7.0	1.50	8.0	-	-	100.0	Sirius	1
Eris Stage 3	Eris.St3	GILM	-	1.5	1.50	1.0	-	-	-	Phoenix	1
AVUM+	AVUM	AVIO	-	1.7	1.50	1.3	606	2.4	940.0	RD-843	1
AVUM	AVUM	AVIO	-	1.7	1.50	1.0	494	2.5	667.0	RD-843	1
AVUM-RD868P	AVUM	AVIO	-	1.7	1.50	1.0	494	2.5	667.0	RD-868P	1
ZK-1A Stage 4	ZK-1A-4	ARMT	-	3.0	1.50	10.0	-	78.0	-	ZK-1A-4	1
JL-3 Stage 4	ZK-1A-4	ARMT	-	3.0	1.50	10.0	-	-	-	JL3-4	1
CE-5 SSQ	CESSQ	CAST	-	1.5	1.50	0.5	215	-	-	SSQ Engine	1
Unha-1 Stage 2	Unha.St2	KPA	-	8.0	1.50	25.6	3700	570.0	95.0	Nodong	1
Unha-2 Stage 2	Unha.St2	KPA	-	8.0	1.50	7.5	1500	140.0	176.0	Nodong	1
Simorgh Stage 2	Unha.St2	IR	-	8.2	1.50	8.0	-	71.0	-	LRE-4	1
KN-11	Bukguekseong	KPA	-	4.0	1.50	10.0	-	255.0	128.0	KPN-Solid1	1
KN-11-2	Bukguekseong	KPA	-	2.8	1.50	7.0	-	255.0	128.0	KPN-Solid2	1
Zoljanah	Zoljanah	IR	-	8.0	1.50	10.0	-	-	-	Zoljanah-1	1
Khorramshahr	R-27	IR	-	8.0	1.50	10.0	-	255.0	128.0	KPN-4D10	1
Khorramshahr 4	R-27	IR	-	10.0	1.50	15.0	-	255.0	128.0	KPN-4D10	1
Hwasong 10	R-27	KPA	-	8.0	1.50	10.0	-	255.0	128.0	KPN-4D10	1
R-27	R-27	MAK	-	8.0	1.50	10.0	-	255.0	128.0	4D10	1
M-3B	M-40	NISST	-	2.7	1.50	3.6	310	132.0	87.0	M-3B	1
LauncherOne Stage 2	LOSt2	VORB	-	3.4	1.50	2.6	200	22.0	346.0	NewtonFour	1
Spaceship One	SS1	SCAL	-	5.0	1.50	4.0	3000	-	-	-	1
Spaceship Two	SS2	SCAL	-	18.3	2.30	9.7	-	-	-	-	1
Burya booster	Burya	NPOL	-	18.9	1.50	27.0	4000	765.0	-	S2.1150	1
Epsilon PBS	EPBS	JAXA	-	1.2	1.50	0.3	200	0.4	1100.0	EPBS	1
CZ-11-4	CZ11-4	ARMT	-	1.5	1.50	2.0	-	-	-	CZ-11-4	1
8K95B	RT-15	OKB1	-	4.0	1.49	10.0	1500	500.0	30.0	RD RT-15-2	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
8K98B	RT-15	OKB1/PERM	-	4.7	1.49	9.6	1500	432.0	59.0	15D24	1
8K96A	RT-15	ARSL	-	4.7	1.49	11.3	1500	432.0	60.6	15D27	1
8K96A (RT-2P)	RT-15	ARSL	-	5.1	1.49	11.3	1500	432.0	60.6	15D24P2	1
RT-21 St2	RT-21.St2	MITT	-	4.4	1.47	8.7	-	-	-	RD RT-21 St2	1
Kestrel I Stage 1	Kestrel1	TISPACE	-	5.0	1.46	1.5	-	-	77.0	Lelien 1B	4
M-10	Mu	NISST	-	13.0	1.41	26.6	5907	737.0	61.0	M-10	1
M-13	Mu	NISST	-	14.8	1.41	33.4	6290	954.0	66.0	M-13	1
M-13TVC	Mu	NISST	-	14.8	1.41	34.2	6987	1020.0	66.0	M-13	1
M-20	M-20	NISST	-	4.7	1.41	9.9	2779	285.0	66.0	M-20	1
M-22TVC	M-20	NISST	-	5.0	1.41	9.8	2607	285.0	66.0	M-22	1
M-23	M-20	NISST	-	6.2	1.41	13.0	2742	523.0	73.0	M-23	1
CPKM	SD	ARMT	-	2.9	1.40	4.6	496	222.8	65.2	CPKM	1
LRAShM St1	LRAShM	DRDO	-	10.0	1.40	6.0	-	-	-	LRAShM S1	1
KM-V2b	KM-V2	NISST	-	2.3	1.40	2.9	800	99.8	90.0	KM-V2b	1
KM-V2c	KM-V2	NISST	-	2.2	1.40	2.9	400	99.6	88.0	KM-V2c	1
Emeraude	Emeraude	LRBA	-	9.0	1.40	14.7	1500	274.0	93.0	Vexin	1
Amethyste	Emeraude	LRBA	-	14.0	1.40	20.3	2500	415.0	119.0	Valois	1
8K95V	RT-1.St3	OKB1	-	2.8	1.40	3.0	-	240.0	42.0	RD RT-1-3	1
AJ10-104	Ablestar	AJGC	Ablestar	4.5	1.39	4.5	599	36.0	-	AJ10-104	1
AJ10-104D	Ablestar	AJGC	Ablestar	4.5	1.39	4.5	599	36.0	-	AJ10-104	1
DSV-3E-3	Ablestar	AJGC	Delta AJ10-118E	5.2	1.39	6.0	785	33.7	400.0	AJ10-118E	1
DSV-3N-4	Ablestar	AJGC	Delta AJ10-118F	6.3	1.39	5.6	784	41.4	335.0	AJ10-118F	1
DSV-3P-4	Ablestar	MDAC	Delta AJ10-118F	6.0	1.39	5.6	784	41.4	335.0	AJ10-118F	1
DSV-3P-4B	Ablestar	MDAC	Delta TR-201	6.0	1.39	5.4	845	42.0	322.0	TR-201	1
A1P	Polaris	LMSC/AJSP	Polaris A1P St1	3.8	1.37	8.3	1450	-	-	A1P-1	1
A2P	Polaris	LMSC/AJSP	Polaris A2P St1	4.3	1.37	10.1	1450	-	-	A2P-1	1
A2E	Polaris	LMSC/AJSP	Polaris A2E St1	4.3	1.37	10.1	1450	-	-	A2P-1	1
A3P	Polaris	LMSC/AJSP	Polaris A3P St1	4.4	1.37	11.1	1270	-	-	A3P-1	1
A1P Stage 2	Polaris.St2	LMSC/AJSP	Polaris A1P St2	2.0	1.37	4.3	951	-	-	A1P-2	1
A2P Stage 2	Polaris.St2	LMSC/ABL	Polaris A2P St2	2.1	1.37	4.2	860	-	-	X-250	1
A2E Stage 2	Polaris.St2	LMSC/HERC	Polaris A2E St2	2.1	1.37	4.2	860	-	-	X-250	1
X-260	PolarisA3.St2	LMSC/ABL	-	2.3	1.37	4.9	815	-	-	X-260	1
Alfa	Alfa	AERIT	-	3.8	1.37	6.5	1000	250.0	57.0	Alfa	1
Black Arrow St2	BlackArrow.St2	SROE	St 2	3.2	1.37	3.5	535	69.0	113.0	Gamma 2	1
X-265	Sprint	MARTO	Sprint X265	3.0	1.37	4.0	-	-	1.2	X-265	1
Squirt St 1	Squirt	MARTO	-	2.0	1.37	1.0	-	-	1.2	Recruit	7
Squirt St 2	Squirt	MARTO	-	1.0	1.37	1.0	-	-	1.5	Cherokee	7
15Zh59A	Kuryer	MITT	-	3.1	1.36	6.0	-	-	-	15Zh59A	1
15Zh59B	Kuryer	MITT	-	3.1	1.36	5.0	-	-	-	15Zh59B	1
Hyperbola-1 Stage 1	DF-21	XJRY	-	8.7	1.40	18.0	-	770.0	-	Hyperbola-1 M1	1
Hyperbola-1B Stage 1	DF-21	XJRY	-	8.7	1.40	18.0	-	770.0	-	Hyperbola-1 M1	1
Hyperbola-1 Stage 2	HP1	XJRY	-	6.7	1.40	13.0	-	597.0	-	Hyperbola-1 M2	1
Hyperbola-1 Stage 3	HP1	XJRY	-	2.6	1.40	3.9	-	195.0	-	Hyperbola-1 M3	1
Hyperbola-1 Stage 4	HP1-4	XJRY	-	1.9	1.40	1.0	-	60.0	-	Hyperbola-1 M4	1
Hyperbola-1B Stage 3	HP1	XJRY	-	2.6	1.40	3.9	-	195.0	-	Hyperbola-1B M3	1
Hyperbola-1B Stage 4	HP1-4	XJRY	-	1.9	1.40	1.0	-	60.0	-	Hyperbola-1B M4	1
GS-1	DF-21	XIDO	-	7.8	1.40	17.0	-	590.0	-	Ceres-1 M1	1
GS-1A	DF-21	XIDO	-	7.8	1.40	18.0	-	590.0	-	Ceres-1 M1	1
GS-2	DF-21	XIDO	-	4.4	1.40	8.0	-	274.0	-	Ceres-1 M2	1
GS-3A	GS-3A	XIDO	-	3.4	1.40	5.0	-	86.0	-	Ceres-1 M3	1
SQ-1S	DF-21	SANJ	-	7.4	1.40	5.4	1645	93.2	-	DF-11	1
KZ-1A St1	DF-21	ARMT	-	6.0	1.35	16.6	-	-	65.0	DF-21-1	1
DF-21	DF-21	ARMT	CSSNX3	6.0	1.35	16.6	-	-	65.0	DF-21-1	1
DF-26	DF-21	ARMT	-	6.0	1.35	10.0	-	-	65.0	DF-26-1	1
DF-27	DF-21	ARMT	-	6.0	1.35	10.0	-	-	65.0	DF-27-1	1
ZQ-1 Stage 3	ZQ-1	ARMT	-	2.0	1.35	2.0	-	-	-	ZQ-1-3	1
Shaheen 2 St 1	DF-21	ARMT	CSSNX3	9.5	1.35	20.0	-	-	65.0	DF-21-1	1
DF-21 St2	DF-21	ARMT	CSSNX3	4.0	1.35	8.7	-	-	62.0	DF-21-2	1
KZ-2 St3	KZ2-3	HEXI	-	2.0	1.35	3.2	-	-	55.0	KZ2-3	1
KZ-1AE St3	KZ2-3	HEXI	-	2.0	1.35	3.2	-	-	55.0	KZ1AE-3	1
Shaheen St 2	DF-21	PKNDC	-	4.4	1.35	4.0	-	-	-	Shaheen-2	1
Shaheen 3 St 2	DF-21	PKNDC	-	4.4	1.35	4.0	-	-	-	Shaheen-2	1
Ababeel St 3	DF-21	PKNDC	-	3.3	1.35	4.0	-	-	-	Ababeel	1
Shavit 1	Jericho	IAI	-	7.5	1.35	13.0	1200	775.0	55.0	ATSM-13	1
ATSM-9	Jericho	IAI	-	5.3	1.35	9.1	1000	610.0	55.0	ATSM-9	1
Jericho IIIA1	Jericho	IAI	-	7.5	1.35	10.0	-	-	-	-	1
Jericho IIIA2	Jericho	IAI	-	7.5	1.35	10.0	-	-	-	-	1
RSA-3-1	Jericho	IAI	-	6.3	1.35	10.2	1100	456.0	52.0	RSA-3-1	1
RSA-3-2	Jericho	IAI	-	6.4	1.35	11.0	1771	477.0	52.0	RSA-3-2	1
IAI Arrow-1	Jericho	IAI	Arrow	5.0	1.35	1.5	-	-	-	IAI-Arrow-1	1
AUS-51	AUS-51	IAI	-	2.6	1.35	2.0	170	58.0	92.0	AUS-51	1
RSA-3-3	AUS-51	HOUW	-	2.1	1.35	2.0	170	59.0	94.0	RSA-3-3	1
Kairos Stage 1	Kairos	SPONE	-	8.1	1.35	14.7	1769	-	-	Kairos Stage 1	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Kairos Stage 2	Kairos	SPONE	-	3.6	1.35	5.2	522	-	-	Kairos Stage 2	1
Kairos Stage 3	Kairos	SPONE	-	2.0	1.35	2.7	245	-	-	Kairos Stage 3	1
15Zh58V	Topol.St3	MITT	Topol'-3	3.1	1.34	6.0	1000	245.0	56.0	15Zh58V	1
15Zh58MV	Topol.St3	MITT	Topol'-M3	3.1	1.34	6.0	1000	245.0	56.0	15Zh58V	1
RT-21 St3	Topol.St3	MITT	-	3.9	1.34	8.7	1000	245.0	-	RD RT-21-3	1
Astra Stage 1	Astra	ASTRV	-	9.0	1.32	8.0	-	140.0	-	Delphin	5
Astra 3.3 Stage 1	Astra	ASTRV	-	9.2	1.32	8.0	-	144.0	-	Delphin	5
SR19	SR19	AJSP	-	4.1	1.32	7.3	1070	267.0	65.5	SR19	1
eSR19	SR19	AJSP	-	4.1	1.32	7.3	1070	267.0	65.5	eSR19	1
SR19AJ1-ATK	SR19	ATKH	-	4.1	1.32	7.3	1070	267.0	65.5	SR19-ATK	1
SR19AJ1	SR19	AJSP	SR19	4.1	1.32	7.3	800	267.0	65.5	SR19	1
SR73AJ1	SR73	AJSP	SR73	2.3	1.32	3.7	410	152.0	61.0	SR73	1
SR73AJ1-ATK	SR73	ATKH	SR73	2.3	1.32	3.7	410	152.0	61.0	SR73-ATK	1
PBS	PBS	BELT/RDYNE	-	1.0	1.32	1.0	-	1.4	-	RS-14	1
UM129A	UM129A	NISST	-	2.3	1.32	2.2	360	77.5	68.0	UM-129A	1
IRIS Stage	IRIS.Fiat	FIATA	IRIS	1.7	1.31	1.7	146	58.0	79.0	IRIS	1
R-21	R-21	SKB385	-	12.0	1.30	16.6	-	-	-	S5.38	1
R-13	R-13	SKB385	-	10.0	1.30	13.7	-	-	-	S2.713	1
V-825	V-825	FAKEL	5Ya27	9.0	1.30	3.9	-	-	-	V-825	1
V-825 Booster	V-825	FAKEL	5Ya27	10.0	1.30	14.0	-	-	-	5S24	1
Kairos PBS	EPBS	SPONE	-	1.0	1.30	0.1	-	-	-	Kairos PBS	1
PDV-II Stage 1	K-4	DRDO	-	5.0	1.30	8.0	-	-	-	K-4 Booster	1
PDV-II Stage 2	K-4	DRDO	-	5.0	1.30	8.0	-	-	-	K-4 Booster	1
K-4 Booster	K-4	DRDO	-	5.0	1.30	8.0	-	-	-	K-4 Booster	1
K-4 Stage 2	K-4	DRDO	-	5.0	1.30	8.0	-	-	-	K-4 Stage 2	1
AMROC IRR	AMROC	AMROC	IRR	17.7	1.29	12.2	-	315.0	70.0	H500	1
Orion 50S	Pegasus	OSCC	Pegasus 1	8.9	1.27	13.4	1900	485.0	72.4	Orion 50S	1
Pegasus XL Stage 1	Pegasus	OSCC	Pegasus XL1	10.3	1.27	17.0	2000	594.0	73.4	Orion 50SXL	1
Orion 50	Pegasus.St2	OSCC	Pegasus 2	2.7	1.27	3.4	345	118.0	73.3	Orion 50	1
Orion 50XL	Pegasus.St2	OSCC	Pegasus XL Stage 2	3.7	1.27	4.0	420	196.0	72.5	Orion 50XL	1
Orion 50XLT	Pegasus.St2	OSCC	-	3.7	1.27	4.0	420	196.0	72.5	Orion 50XLT	1
Orion 50SXLG	Pegasus	OSCC	Taurus-Lite	10.0	1.27	15.0	-	704.0	-	Orion 50SXLG	1
Orion 50SXLT	Pegasus	OSCC	-	10.0	1.27	15.0	-	704.0	-	Orion 50SXLT	1
Orion 50SG	Pegasus	OSCC	Taurus-Lite	10.0	1.27	15.0	-	-	-	Orion 50SXLG	1
Qaem-100 St 1	Qaem	IRGC	-	7.0	1.25	25.0	-	-	-	Rafe	1
Sejjil	Sejjil	IR	-	8.0	1.25	13.5	2000	560.0	90.0	Sejjil	1
Sejjil Stage 2	Sejjil	IR	-	8.0	1.25	5.5	2000	560.0	90.0	Sejjil St 2	1
Hwasong-14 Stage 2	Nodong	KPA	-	2.1	1.25	3.0	-	-	224.0	KPN-4D10	1
Taepo Dong 1	Nodong	KPA	-	12.0	1.25	25.6	3700	570.0	95.0	Nodong	1
Scud D	Nodong	KPA?	-	16.0	1.25	15.1	2000	255.0	110.0	Nodong	1
Hwasong-7	Nodong	KPA	-	16.0	1.25	15.1	2000	255.0	110.0	Nodong	1
Ghauri	Nodong	KRLP	Ghauri	16.0	1.25	16.0	3000	255.0	110.0	Nodong	1
Emad	Nodong	IR	-	16.0	1.25	15.1	2000	255.0	90.0	Nodong	1
Shahab 3	Nodong	IR	-	16.0	1.25	15.1	2000	255.0	90.0	Nodong	1
Unha-2 Stage 3	Unha.St3	KPA	-	3.0	1.25	3.0	300	18.0	27.0	Unha St3	1
Unha-3 Stage 3	Unha.St3	KPA	-	3.8	1.25	4.0	500	18.0	27.0	Unha St3	1
Safir Stage 2	Nodong	IR	-	3.0	1.25	9.0	-	18.0	60.0	LRE-4	1
Star 48	Star48	THKE	Star 48	2.0	1.22	2.2	208	66.4	84.1	Star 48	1
Star 48B	Star48	THKE	Star 48	2.0	1.22	2.2	208	66.4	84.1	Star 48B	1
Star 48B AKM	Star48	THKE	Star 48	2.0	1.22	2.2	116	66.4	84.1	Star 48B	1
Star 48V	Star48	THKE	-	2.0	1.22	2.2	140	68.7	84.1	Star 48V	1
Star 48BV	Star48	THKE	-	2.0	1.22	2.2	140	68.7	84.1	Star 48V	1
Delta 4H Stage 3	Star48	THKE	-	2.1	1.40	2.2	140	68.7	84.1	Star 48V	1
AlKahir	AlKahir	EGAO	-	10.0	1.22	10.0	-	-	-	AlKahir	1
KM-V1	KM-V	NISST	-	1.5	1.20	1.4	118	52.0	73.0	KM-V1	1
KT-1 St3	KT1-3	HEXI	-	2.0	1.20	2.0	-	-	-	KT1-3	1
KZ-1 St3	KT1-3	HEXI	-	2.0	1.20	3.2	-	-	55.0	KZ1-3	1
GS-3	Gushenxing-3	XIDO	-	3.4	1.20	4.0	-	86.0	-	Ceres-1 M3	1
Edge	Edge	XIDO	-	2.0	1.20	1.0	-	2.0	-	Edge	1
Hyunmoo Booster	Hyunmoo	DAC/HERCR	-	4.2	1.20	2.4	-	800.0	-	Hyunmoo 1	1
Hyunmoo-2A	Hyunmoo	ADD	-	7.0	1.20	4.0	-	-	-	Hyunmoo-2B	1
Hyunmoo-2B	Hyunmoo	ADD	-	7.0	1.20	4.0	-	-	-	Hyunmoo-2B	1
Hyunmoo-2C	Hyunmoo	ADD	-	7.0	1.20	4.0	-	-	-	Hyunmoo-2B	1
Hyunmoo-4	Hyunmoo	ADD	-	7.0	1.20	4.0	-	-	-	Hyunmoo-2B	1
ADD SLV St1	ADD-SLV	ADD	-	11.8	2.20	4.0	-	-	-	ADD-SLV-1	1
ADD SLV St2	ADD-SLV	ADD	-	4.8	2.20	2.0	-	-	-	ADD-SLV-2	1
ADD SLV St3	ADD-SLV	ADD	-	2.8	2.20	1.5	-	-	-	ADD-SLV-3	1
JL-1 Stage 1	JL1	CALT	-	7.0	1.20	7.0	-	-	-	JL1-1	1
JL-1 Stage 2	JL1	CALT	-	7.0	1.20	7.0	-	-	-	JL1-2	1
JL-1 Stage 3	JL1-3	CALT	-	2.0	1.20	3.0	-	-	-	JL1-3	1
JL-1 Stage 4	JL1-4	CALT	-	2.0	1.20	3.0	-	-	-	JL1-4	1
DF-16	DF-16	CASIC	-	7.5	1.20	12.0	-	-	-	DF-16	1
Electron Stage 1	Electron	RLABN	-	12.1	1.20	10.2	950	162.0	-	Rutherford	9

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Electron Stage 2	Electron	RLABN	-	2.4	1.20	2.3	250	22.0	-	Rutherford Vac	1
Hermes A-3B	HermesA3	GEMTS	-	10.1	1.19	5.3	2000	100.0	-	Hermes A-3B	1
GEM-46	GEM	ATKH	-	14.7	1.17	19.3	2035	608.1	75.2	GEM-46	1
LEO-46	LEO-46	AJSP	-	11.2	1.17	22.1	1700	1265.0	76.0	LEO-46	1
LEO-7	LEO-7	AJSP	-	2.7	1.17	3.6	350	195.1	62.0	LEO-7	1
SICBM	SICBM	THKU	-	7.5	1.17	11.6	-	979.0	40.0	SICBM	1
SICBM St 2	SICBM2	AJSP	-	3.2	1.17	3.3	-	267.0	44.0	SICBM2	1
SICBM St 3	SICBM3	HERC	-	2.0	1.17	1.5	-	88.0	-	SICBM3	1
SICBM PBS	SICBM4	MMD?	-	0.8	1.17	0.5	-	-	-	SICBM4	1
M-3A	M-40	NISST	-	2.3	1.14	1.1	130	61.0	54.0	M-3A	1
Vanguard	Viking	MARTB	-	11.4	1.14	7.7	811	120.0	144.0	X-405	1
Viking Type 9	Viking	MARTB	Viking	12.8	1.14	6.8	1000	93.0	105.0	NRL Viking	1
Algol 3A	ScoutD	LTV	-	9.4	1.14	14.3	1600	471.0	56.0	Algol 3A	1
Zefiro	Zefiro	FIATA	-	4.9	1.14	17.3	1500	590.0	71.0	Zefiro	1
15Zh59V	Kuryer.St3	MITT	-	2.1	1.13	3.0	-	-	-	15Zh59V	1
M56A1	Aries	SVC	Aries	3.8	1.12	5.2	750	200.0	60.0	M56A1	1
KZ-1 St4	KT1-3	HEXI	-	1.5	1.10	2.0	-	-	-	KZ1-4	1
KZ-1AE St4	KT1-3	HEXI	-	1.5	1.10	2.0	-	-	-	KZ1AE-4	1
H-II SSB	H2.SSB	NISST	-	9.0	1.10	10.5	2100	338.0	66.0	H-II SSB	1
H-II SSB (A)	H2.SSB	NISST	-	9.0	1.10	10.5	2100	338.0	66.0	H-II SSB (A)	1
TR-1	TR-1	NASDA	-	7.1	1.13	10.8	3900	608.0	51.3	TR-1	1
TR-1A	TR-1	NASDA	TR-1A	7.5	1.13	8.8	1784	608.0	52.0	TR-1A	1
Prithvi	Prithvi	HAL	-	8.5	1.10	4.5	-	-	-	Prithvi	1
PDV Target St2	Prithvi	HAL	-	2.0	1.10	2.0	-	-	-	2S-SL	1
PDV-II KV	PDV-II	DRDO	-	4.0	1.10	2.0	-	-	-	PDV-ASAT	1
TX-500	Spartan	THKXM	Spartan TX-500	4.9	1.09	5.5	1030	2000.0	-	TX-500	1
TX-454	Spartan	THKXM	-	5.0	1.09	6.5	753	-	-	TX-454	1
TX-135	Spartan	THKXM	-	5.2	1.09	5.3	932	2000.0	4.5	TX-135	1
PAP	PAP	BPD	-	11.5	1.07	12.6	3100	650.0	42.0	PAP	1
Dolphin	Dolphin	STST	-	15.5	1.07	7.5	-	155.0	-	Dolphin	1
Hercules Booster	Hercules	DAC/HERCR	-	4.3	1.06	2.4	-	772.0	3.4	XM-42	4
Paekkom Booster	Hercules	ADD	-	4.3	1.06	2.4	-	-	-	Paekkom	4
Algol 1	Scout	LTV	-	9.4	1.02	10.7	1380	413.0	44.0	Algol I	1
Algol 1A	Scout	LTV	-	9.4	1.02	10.7	1200	420.0	44.0	Algol IA	1
Algol 1B	Scout	LTV	-	9.4	1.02	10.7	1200	420.0	44.0	Algol IB	1
Algol 1C	Scout	LTV	-	9.4	1.02	10.7	1200	440.0	44.0	Algol IC	1
Algol 1D	Scout	LTV	-	9.4	1.02	10.7	1200	440.0	44.0	Algol ID	1
Algol 2A	Scout	LTV	-	9.1	1.02	10.7	1200	380.0	60.0	Algol IIA	1
Algol 2B	Scout	LTV	-	9.1	1.02	10.7	1170	400.0	80.0	Algol IIB	1
Algol 2C	Scout	LTV	-	9.1	1.02	10.8	1200	436.0	76.0	Algol IIC	1
Castor 4	Castor4	THKX	-	9.7	1.02	10.5	1200	428.0	53.9	TX-526	1
Castor 4A	Castor4	THKX	-	13.6	1.02	11.6	1400	433.7	56.2	TX-780	1
Castor 4B	Castor4	THKX	-	8.8	1.02	11.5	1420	429.0	60.9	TX-859	1
Castor 4AXL	Castor4	THKX	-	15.0	1.02	15.4	2500	745.0	60.0	TX-780XL	1
GEM-40	GEM	ATKH	-	13.0	1.02	13.1	1315	499.2	63.3	GEM-40	1
TX-174	Pershing	MARTO	-	2.8	1.02	2.3	251	117.0	39.0	TX-174	1
TX-175	Pershing	MARTO	-	2.7	1.02	1.5	210	85.0	39.0	TX-175	1
Pershing 2 St1	Pershing	MARTO	-	4.0	1.02	4.1	530	172.0	58.0	Pershing 2 St1	1
Pershing 2 St2	Pershing	MARTO	-	2.8	1.02	5.8	350	134.0	46.0	Pershing 2 St2	1
Hermes A-3A	HermesA3	GEMTS	-	8.7	1.02	3.8	-	80.0	-	Hermes A-3A	1
S-43	S-40	IAE	S-43	8.1	1.01	8.4	1250	327.0	40.0	S-43	1
S-43TM	S-40	IAE	S-43	8.1	1.01	8.4	1250	327.0	40.0	S-43	1
S-43 VLR-R2	S-40	IAE	S-43	8.1	1.01	8.4	1250	327.0	40.0	S-43	1
S-40	S-40	IAE	S-40	5.3	1.01	5.6	1300	252.0	40.0	S-40	1
S-40TM	S-40	IAE	-	5.1	1.01	5.4	1190	202.0	58.0	S-40	1
S-44	S-44	IAE	-	1.7	1.01	1.0	127	33.0	66.0	S-44	1
S-44M	S-44	IAE	-	1.7	1.01	1.0	127	33.0	66.0	S-44	1
Cygnus 40	40SM	LARC/THKE	-	1.1	1.01	1.0	74	83.0	26.0	Cygnus 40	1
Temp	Temp	MIT	-	12.4	1.01	11.9	120	-	-	9M76	1
Temp-S	Temp	MIT	-	12.4	1.01	11.9	120	-	-	9M76B	1
Electron Stage 3	Electron	RLABN	-	0.5	1.40	1.0	-	-	-	Curie	1
Photon Lunar	Electron	RLABN	-	1.0	1.40	2.0	-	-	-	HyperCurie	1
Start	Start	MITT	-	2.6	1.00	1.0	300	100.0	53.0	Start	1
DS	DS	MITT	-	0.5	1.00	0.5	50	-	250.0	DS	1
Orion LAS	Orion.LAS	OSCC	-	10.0	1.00	6.0	-	-	-	Orion LAS-AM	1
HAPS Stage	HAPS	PRIMX	-	0.8	1.00	0.1	50	0.7	180.0	MR-107	3
HAPS	HAPS	PRIMX	-	0.8	1.00	0.1	50	0.7	180.0	MR-107	3
Dezful	Dezful	IR	-	10.6	1.00	15.0	-	255.0	128.0	Dezful	1
DF-15	DF-15	ARMT	M-9	9.1	1.00	6.2	-	-	-	DF-15	1
Shaheen	DF-15	ARMT	M-9	9.1	1.00	6.2	-	-	-	DF-15	1
HANBIT-TLV	HANBIT	INNOSP	-	15.0	1.00	8.0	-	-	-	HyPER-15	1
KSLV-1 Stage 2	KSLV.St2	KARI?	-	1.6	1.00	1.4	200	80.0	44.0	KSLV SRM	1
SLV-3-1	ASLV	VSSC	-	9.8	1.00	10.8	2140	420.0	53.0	SLV-3-1	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
SLV-3-1/D4	ASLV	VSSC	-	9.8	1.00	10.8	2140	590.0	55.0	SLV-3-1/D4	1
AS-0	ASLV	VSSC	-	10.7	1.00	11.6	2963	502.0	49.0	ASLV SRM	1
AS-1	ASLV	VSSC	ASLV	10.2	1.00	11.8	2900	702.0	45.0	ASLV AS-1	1
Agni P	ASLV	DRDO	-	7.7	1.00	15.0	-	-	-	Agni P S1	1
Agni P Stage 2	ASLV	DRDO	-	3.1	1.00	5.0	-	-	-	Agni P S2	1
PSOM	ASLV	VSSC	-	11.3	1.00	11.0	2000	677.0	44.2	PSOM	1
PSOM-XL	ASLV	VSSC	-	13.5	1.00	13.5	2000	720.0	49.0	PSOM	1
S9	ASLV	VSSC	-	10.7	1.00	11.0	2900	500.0	49.0	S9	1
Talon-A	Talon	STRATO	-	8.5	1.00	6.0	-	22.0	-	Hadley	0
ADD SLV St4	GYUB4	HANWHA	-	1.8	1.00	1.0	-	-	-	GYUB4	1
Astra 1 Stage 1	Astra	ASTRV	-	8.0	1.00	4.0	-	-	-	Astra E1	4
Astra 1 Stage 2	Astra	ASTRV	-	2.0	1.00	2.0	-	-	-	Astra E1	1
Agni	ASLV	DRDO	-	11.0	1.00	11.5	2900	700.0	50.0	Agni	1
Agni II Stage 2	AgniII.St2	DRDO	-	6.0	1.00	4.2	-	-	60.0	Agni St2	1
Agni 4 Stage 2	AgniII.St2	DRDO	-	6.0	1.00	4.2	-	-	60.0	Agni St2	1
KSR-III	KSR-3	KARI	-	10.0	1.00	5.6	-	126.0	59.0	KSR-III	1
V-1000 Booster	V-1000.Booster	SKB30	-	3.1	1.00	3.0	-	1962.0	4.5	PRD-33	1
53T6	PRS-1	NOVTR	-	10.0	1.00	12.0	-	103.0	4.0	53T6	1
5Ya26	PRS-1	NOVTR	-	10.0	1.00	12.0	-	103.0	4.0	5Ya26	1
Vesta	Vesta	LRBA	-	7.2	1.00	5.0	780	140.0	56.4	Vesta	1
8K96B (RT-2P)	RT-2.St3	ARSL/PERM	RT-2P St3	5.5	1.00	4.6	1000	176.0	45.0	15D94	1
8K96B (RT-15)	RT-2.St3	ARSL/PERM	RT-15 St2	4.6	1.00	4.6	1000	216.0	45.0	15D92	1
8K98V	RT-2.St3	ARSL/PERM	-	3.8	0.98	3.5	1000	215.0	45.0	15D25	1
8K96B	RT-2.St3	ARSL/PERM	-	4.6	0.98	4.6	1000	176.0	49.0	15D94	1
Orion 38	Pegasus.St3	ATKH	Pegasus 3	1.3	0.97	0.9	126	36.0	69.6	Orion 38	1
M57A1	Minuteman.St3	HERC	-	2.1	0.97	1.9	300	76.0	59.0	M57A1	1
Salman	Salman	IRGC	-	2.0	0.95	1.7	150	-	65.0	Salman	1
Star 37FM	Star37	THKE	-	1.7	0.94	1.1	74	45.8	66.4	Star 37FM	1
Star 37FMV	Star37	THKE	-	1.7	0.94	1.1	74	45.8	66.4	Star 37FM	1
Star 37B	Star37	THKE	Star 37	1.5	0.94	0.7	65	45.0	-	Star 37B	1
Star 37C	Star37	THKE	-	1.5	0.94	1.0	83	45.0	-	Star 37C	1
Star 37D	Star37	THKE	-	1.5	0.94	0.7	65	45.0	-	Star 37D	1
Star 37E	Star37	THKE	-	1.7	0.94	1.1	83	68.0	42.0	Star 37E	1
Star 37F	Star37	THKE	-	1.7	0.94	0.9	67	55.5	42.0	Star 37F	1
Star 37XF	Star37	THKE	-	1.7	0.94	0.9	67	45.0	-	Star 37XF	1
Star 37XE	Star37	THKE	-	1.7	0.94	0.9	67	45.0	66.0	Star 37XE	1
Star 37XFP	Star37	THKE	-	1.7	0.94	1.0	72	38.0	66.0	Star 37XFP	1
Star 37S	Star37	THKE	-	1.7	0.94	0.7	53	45.0	-	Star 37S	1
Star 37N	Star37	THKE	Star 37E	1.7	0.94	0.6	64	45.0	-	Star 37N	1
KM-H	KM-H	NISST	-	1.4	0.93	0.1	13	-	-	KM-H	1
Oka	Oka	KBM	-	7.5	0.92	4.6	-	-	-	Oka	1
BGS-6	Oka	KPA	-	4.0	0.92	6.0	-	-	-	KPN-Solid6	1
KN-23	Oka	KBM	-	7.5	0.92	4.0	-	-	-	KN-23 Motor	1
KN-23X	Oka	KBM	-	7.5	0.92	4.0	-	-	-	KN-23X Motor	1
Iskander	Oka	KBM	-	7.3	0.92	3.8	-	-	-	9M723	1
Iskander-M	Oka	KBM	-	7.3	0.92	3.8	-	-	-	9M723	1
Iskander-E	Oka	KBM	-	7.3	0.92	3.8	-	-	-	9M723	1
Stonechat I	Stonechat	RORD	-	4.5	0.92	4.8	750	232.0	32.3	Stonechat I	1
Stonechat II	Stonechat	RORD	-	4.5	0.92	5.1	750	242.0	32.8	Stonechat II	1
Black Knight	BlackKnight	SROE	-	9.0	0.91	5.4	540	75.0	140.0	Gamma 201	1
Black Knight 301	BlackKnight	SROE	-	9.0	0.91	5.4	540	75.0	140.0	Gamma 301	1
TX-238	TX-238	THKXM	-	4.7	0.91	3.5	417	-	-	TX-238	1
Skybolt St1	Skybolt	DAC	Skybolt	3.8	0.91	2.5	-	164.0	40.7	Skybolt	1
Skybolt St2	Skybolt.St2	DAC	-	2.4	0.91	1.2	-	81.8	41.3	Skybolt St2	1
Astra Stage 2	Astra2	ASTRV	-	2.2	0.91	1.0	-	3.3	-	Aether	1
Astra 3.3 Stage 2	Astra2	ASTRV	-	2.2	0.91	1.0	-	3.3	-	Aether	1
Cluster Stage 2	Cluster	JPL	11xBaby Sergeant	1.2	0.89	0.5	223	80.0	6.0	RTV	11
IRCPS FSM	IRCPS	LM	-	3.9	0.88	3.0	-	-	-	IRCPS FSM	1
IRCPS SSM	IRCPS	LM	-	1.5	0.88	1.5	-	-	-	IRCPS SSM	1
OS-X0	DF-11	LYK/SANJ	-	7.4	0.88	5.4	1645	93.2	-	DF-11	1
OS-M1 Stage 2	DF-11	LYK/SANJ	-	7.4	0.88	5.4	1645	93.2	-	DF-11	1
OS-X6B	DF-11	LYK	-	8.0	0.75	-	-	-	-	DF-11	1
DF-11	DF-11	SANJ	-	7.4	0.88	5.4	1645	93.2	-	DF-11	1
DF-11M	DF-11	SANJ	-	9.4	0.88	5.4	1645	93.2	-	DF-11	1
Ghaznavi	DF-11	PKPMO	-	9.4	0.88	5.4	1645	93.2	-	DF-11	1
R-17	R-11	MAK	Scud B	7.4	0.88	5.4	1645	93.2	-	S5.2	1
Scud	R-11	MAK	-	8.0	0.88	6.3	1600	-	-	S5.2	1
Scud B	R-11	MAK	-	8.6	0.88	5.6	1600	-	-	S5.2	1
Al Hussein	R-11	MAK	-	9.5	0.88	5.9	1600	-	-	S5.2	1
Short Al Hussein	R-11	MAK	-	9.0	0.88	5.9	1600	-	-	S5.2	1
Al Abbas	R-11	MAK	-	10.9	0.88	7.6	1600	-	-	S5.2	1
Abid St2	R-11	IQ	-	8.0	0.88	6.0	1600	-	-	S5.2	1
Taepo Dong 1 Stage 2	R-11	KPA	-	12.0	0.88	7.5	1500	140.0	176.0	Nodong	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
R-11	R-11	OKB1	-	7.4	0.88	4.6	955	93.0	-	S2.253	1
R-11FM	R-11	OKB1	-	7.4	0.88	4.5	1080	93.0	63.0	S2.253A	1
Hwasong 5	R-11	KPA	-	10.0	0.88	5.0	-	93.0	-	S2.253	1
Hwasong 6	R-11	KPA	-	10.0	0.88	5.0	-	93.0	-	S2.253	1
Hwasong 7	R-11	KPA	-	10.0	0.88	5.0	-	93.0	-	S2.253	1
Hwasong ER	R-11	KPA	-	12.0	0.88	5.0	-	93.0	-	S2.253	1
Wasserfall	Hermes	WEHR	-	7.8	0.88	3.5	1700	80.0	40.0	Wasserfall	1
CHGB LV St 1	CHGB	NGISP	-	5.0	0.88	3.0	-	-	-	CHGB FSRM	1
CHGB LV St 2	CHGB	NGISP	-	5.0	0.88	3.0	-	-	-	CHGB SSRM	1
Hermes A-1	Hermes	GEMTS	-	7.8	0.86	5.0	-	71.0	-	Hermes A-1	1
M-30	M-30	NISST	-	4.0	0.86	2.8	773	128.0	42.0	M-30	1
Trident C-4 Stage 3	Trident.St3	UTC	-	3.3	0.86	1.9	150	-	40.0	Trident St 3	1
Trident D-5 Stage 3	Trident.St3	UTC	-	3.3	0.86	2.2	159	-	40.0	Trident St 3	1
X-271	X-271	ABL?	Sprint X271	5.0	0.82	-	-	-	-	X-271	1
Viking	Viking	MARTB	-	14.9	0.81	4.5	800	93.0	70.0	NRL Viking	1
AJ10	Able	AJGC	Able	5.0	0.81	1.9	429	33.0	122.0	AJ10	1
AJ10-11B	Able	AJGC	AJ10	5.7	0.81	1.9	429	34.7	122.0	AJ10-11B	1
AJ10-40	Able	AJGC	Able	5.8	0.81	1.9	429	34.5	110.0	AJ10-40	1
AJ10-41	Able	AJGC	Able	5.8	0.81	1.9	429	34.5	110.0	AJ10-41	1
AJ10-42	Able	AJGC	Able II	5.8	0.81	1.9	429	34.5	110.0	AJ10-42	1
AJ10-101A	Able	AJGC	Able I	5.8	0.81	1.9	385	34.7	110.0	AJ10-101A	1
AJ10-118	Able	AJGC	Delta	6.0	0.81	2.2	694	33.7	115.0	AJ10-118	1
AJ10-118A	Able	AJGC	Delta	6.0	0.81	2.7	600	33.7	170.0	AJ10-118A	1
AJ10-118D	Able	AJGC	Delta	5.8	0.81	2.7	545	33.7	170.0	AJ10-118D	1
P068	P068	SEP	P0.68	1.7	0.80	0.8	62	52.5	46.5	P068	1
Agate	Agate	SEREB	VE110 Agate	4.5	0.80	2.0	100	190.0	18.0	NA 801	1
MD-620	Agate	DASST	-	4.1	0.80	2.0	-	-	-	NA 804	1
Topaze VE111C	Agate	SEREB	-	2.9	0.80	1.5	-	120.0	39.0	NA 802 Soleil C	1
Topaze VE111L	Agate	SEREB	-	3.0	0.80	2.2	-	156.0	44.0	NA 803 Soleil	1
Topaze	Agate	SEREB	-	4.6	0.80	2.2	-	156.0	44.0	NA 803 Soleil	1
NA-805	Agate	DASST	-	5.0	0.80	4.1	-	-	-	NA 805	1
Jericho-1	Arrow2	IAI	-	4.5	0.80	2.0	-	-	-	NA 804	1
IAI Arrow	Arrow2	IAI	Arrow	5.0	0.80	1.5	-	-	-	IAI-Arrow-2	1
Arrow 3	Arrow3	IAI	-	6.5	0.70	1.0	-	-	-	IAI-Arrow-3	1
Arrow 3 Stage 2	Arrow3	IAI	-	3.5	0.70	0.5	-	-	-	IAI-Arrow-3	1
SLV-3-2	ASLV.St2	VSSC	-	6.4	0.80	4.9	1750	200.0	42.0	SLV-3-2	1
SLV-3-2/D4	ASLV.St2	VSSC	-	6.4	0.80	4.9	1750	200.0	42.0	SLV-3-2/D4	1
SLV-3-3	ASLV.St3	VSSC	-	2.4	0.80	1.5	440	60.0	46.0	SLV-3-3	1
SLV-3-3/D4	ASLV.St3	VSSC	-	2.4	0.80	1.5	440	60.0	46.0	SLV-3-3/D4	1
AS-2	ASLV.St2	VSSC	St 2	6.4	0.80	4.4	800	304.0	36.0	ASLV AS-2	1
AS-3	ASLV.St3	VSSC	St 3	2.4	0.80	1.7	650	90.7	45.0	ASLV AS-3	1
KM-M	M-40	NISST	-	1.3	0.80	0.6	45	32.0	63.0	KM-M	1
M-40	M-40	NISST	-	1.8	0.79	0.4	73	26.5	40.0	M-40	1
KM-P	M-40	NISST	-	1.2	0.79	0.5	42	31.3	44.0	KM-P	1
HIBEX	HIBEX	BOKT?	-	3.1	0.79	6.0	-	-	-	HIBEX	1
HIBEX-U	HIBEX	BOKT?	-	3.1	0.79	6.0	-	-	-	HIBEX-U	1
Polaris TV	Polaris	LMSC	- [0.78m?]	6.0	0.79	8.3	1450	285.0	23.0	TX-33	1
TX-30	Sergeant	THKX	-	5.4	0.79	2.0	-	44.5	29.0	TX-30	1
Sergeant	Sergeant	THKX	-	4.4	0.79	3.2	-	220.0	23.8	TX-30	1
Aerojet Jr	Sergeant	AJ	-	5.7	0.79	4.0	-	254.0	28.0	Aerojet Jr	1
TX-20 Sergeant	Sergeant	THKX	-	6.1	0.79	4.0	-	213.0	24.0	TX-20	1
RV-A-10	Sergeant	GEMTS	-	4.0	0.79	3.5	800	140.0	30.0	RV-A-10	1
Pollux	Sergeant	THKX	-	5.7	0.79	4.2	-	-	38.0	Pollux	1
Castor	Sergeant	THKX	-	6.0	0.79	4.2	783	235.0	38.0	TX-33	1
Castor 1	Sergeant	THKX	-	6.0	0.79	4.2	783	235.0	38.0	TX-33	1
Castor 2	Sergeant	THKX	-	6.0	0.79	4.0	565	259.0	37.0	TX-354-4	1
Castor 2A	Sergeant	THKX	-	6.0	0.79	4.0	565	259.0	37.0	TX-354-3	1
Xaero	Xaero	MASTEN	-	4.6	0.77	1.0	-	13.2	-	Xaero	1
Avanti	Avanti	LPC	-	13.5	0.77	6.0	-	121.0	89.0	LPC-A92	1
GF-01A	GF-02	ARMT	-	2.0	0.77	2.0	200	29.0	140.0	GF-02	1
GF-02	GF-02	ARMT	-	3.9	0.77	2.0	250	118.0	38.0	GF-01A	1
MX-774	MX-774	CONV	-	5.7	0.76	1.1	500	35.0	75.0	MX-774	4
OTRAG	OTRAG	OTR	-	7.0	0.76	-	-	120.0	-	OTRAG	4
Corporal E	Corporal	DAC/JPL	Corporal	13.7	0.76	4.5	-	89.0	63.0	Corporal E	1
Corporal Type 1	Corporal	FIRES	Corporal	13.7	0.76	5.2	-	89.0	63.0	Corporal	1
Ajax Cluster 1810	Ajax	AJ	-	6.0	0.76	1.2	-	50.0	71.0	Ajax 1810	4
Ajax Cluster	Ajax	AJ	-	6.0	0.76	1.2	-	50.0	71.0	Ajax	4
Talos	Talos	ABL	-	3.4	0.76	1.5	-	516.0	5.2	Talos Mk 11 Mod 2	1
Antares	Antares	ABL	-	3.3	0.76	1.2	240	60.0	38.0	X-254	1
Antares 2	Antares	ABL	Antares II X-259	2.9	0.76	1.3	107	93.0	36.0	X-259	1
Antares 2B	Antares	ABL	-	2.9	0.76	1.3	-	93.0	36.0	X-259	1
Antares 3	Antares	THKE	-	2.9	0.76	1.4	95	82.3	45.0	Star 31	1
Al Samoud 2	Samoud	IQMIC	-	5.0	0.76	2.0	505	13.8	52.0	S2.711	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Shaurya	K-15	DRDO	-	5.6	0.75	5.0	-	-	-	Shourya	1
Shaurya Booster	K-15	DRDO	-	2.2	0.75	3.0	-	-	-	Shourya Booster	1
Qaem-100 St 2	Qaem-S2	IRGC	-	3.0	0.75	4.0	-	-	-	Qaem-100 S2	1
TX-239	TX-239	THKXM	-	1.1	0.74	0.4	-	-	-	TX-239	1
27D6	Kontakt	FAKEL	-	6.0	0.74	3.0	-	-	-	27D6	1
28D6	Kontakt	FAKEL	-	2.0	0.74	1.0	-	-	-	28D6	1
29D6	Kontakt	FAKEL	-	1.0	0.74	0.5	-	-	-	29D6	1
TKS VA SAS	TKSVA	OKB52	-	5.3	0.74	3.0	-	-	-	TKS VA SAS	1
SB-735	SB-735	ISAS	M-3S SRB	9.1	0.74	5.1	1100	328.0	38.0	SB-735	1
ST-735	SB-735	ISAS	-	4.6	0.74	7.4	-	250.0	49.0	ST-735-1	1
ST-735 Stage 2	SB-735	ISAS	-	2.0	0.74	4.0	-	-	-	ST-735-2	1
NAL-735	SB-735	NASDA	-	9.0	0.74	4.7	-	250.0	49.0	NAL-735	1
L735	Lambda	ISAS	-	8.4	0.74	5.0	2945	410.0	28.8	L735	1
L735(1/3)	Lambda.St2	ISAS	L735(1-3)	3.9	0.74	2.5	-	118.0	38.4	L735(1/3)	1
Waxwing	Waxwing	RORD	-	1.5	0.71	0.3	39	28.8	37.2	Waxwing	1
Pedro	Pedro	THKX	-	3.1	0.71	1.5	250	244.0	11.3	TX-261-3	1
TX-261	Pedro	THKX	-	3.1	0.71	1.5	250	244.0	11.3	TX-261-3	1
TX-261-2	Pedro	THKX	-	3.1	0.71	1.5	250	244.0	11.3	TX-261-2	1
LRAShM St2	LRAShM.St2	DRDO	-	8.0	0.70	4.0	-	-	-	LRAShM S2	1
LEO-1	Orbus1	AJSP	-	1.2	0.70	0.7	45	50.0	51.5	LEO-1	1
Orbus 1	Orbus1	UTC	-	1.2	0.70	0.5	50	88.0	-	Orbus 1	1
Orbus 1A	Orbus1	ATKE	-	1.2	0.70	0.5	50	88.0	-	Orbus 1A	1
Miura 1	Miura	PLDS	-	12.7	0.70	2.5	-	30.2	122.0	TEPREL-B	1
Skylark L	SkylarkL	SKYR	-	10.0	0.70	2.5	50	35.0	-	Skylark L	1
KM Rockoon	KM-D	NISST	-	1.3	0.70	0.3	50	-	-	KM-D	1
Kestrel I Stage 2	Kestrel1.St2	TISPACE	-	2.0	0.70	0.5	-	-	-	Lelien 1A	1
MX-775	Snark	ABL	-	5.1	0.69	1.2	0	580.0	4.0	N-25 Snark JATO	2
Star 27	Star27	ATKE	-	1.2	0.69	0.4	24	26.7	34.3	Star 27	1
Zolfaghar	Zulfiqar	IRGC	-	9.0	0.68	4.1	-	-	-	Zolfaghar	1
OIS	Star27	FAIR	-	1.2	0.69	0.4	24	26.7	34.3	Star 27	1
Star 26	Star26	ATKE	-	0.8	0.66	0.3	38	33.0	17.8	Star 26	1
Star 26B	Star26	ATKE	-	0.8	0.66	0.3	23	35.0	17.8	Star 26B	1
Star 26C	Star26	ATKE	-	0.8	0.66	0.3	29	35.0	16.8	Star 26C	1
ARRW	ARRW	LMPLM	-	4.0	0.66	2.0	-	-	-	ARRW Booster	1
AS-4	ASLV.St4	VSSC	St 4	1.4	0.66	0.5	195	35.0	33.0	AS-4	1
SLV-3-4	ASLV.St4	VSSC	-	1.5	0.66	0.4	98	27.0	33.0	SLV-3-4	1
Apollo LES	Apollo.LES	NAAD	LES	10.2	0.66	2.5	-	690.0	3.0	LPC A-1	1
P064	Rubis	SUD	Rubis	1.5	0.65	0.7	89	52.0	45.0	P064	1
KT-1 St4	KT1-4	HEXI	-	1.2	0.65	2.0	-	-	-	SpaB-65	1
KN-02	Tochka	KBM	-	6.4	0.65	2.0	-	-	-	KN-02 Motor	1
Tochka	Tochka	KBM	-	6.4	0.65	2.0	-	-	-	9M79	1
Tochka-U	Tochka	KBM	-	6.4	0.65	2.0	-	-	-	9M79-1	1
V-750 Booster	V-750	ISKRM	-	2.4	0.65	0.3	-	-	4.5	PRD-18	1
KM-D	KM-D	NISST	-	1.0	0.63	0.3	24	17.4	38.0	KM-D	1
Cygnus 25	25SM	PARD	-	1.1	0.64	0.2	19	33.3	16.5	Cygnus 25	1
SR75	SR75	HYIMP	-	10.0	0.64	1.0	-	75.0	72.0	HyPLOX75	1
NOTS 500	NOTS500	NOTS	-	2.5	0.61	0.9	-	-	45.0	NOTS 500	1
Zelzal	Zelzal	IR	Iran	6.0	0.61	0.5	0	0.0	-	NP-110	1
Zulfiqar	Zelzal	IR	Iran	6.0	0.61	0.5	0	0.0	-	NP-110	1
Fateh-110	Zelzal	IR	-	9.0	0.61	1.0	-	-	-	NP-110	1
Fateh-360	Zelzal	IR	-	9.0	0.61	1.0	-	-	-	Fateh-360	1
ATACMS	ATACMS	AJCA	-	4.0	0.61	1.2	-	180.0	-	M124	1
Pathfinder Zombie	ATACMS	AJCA	-	4.0	0.61	1.2	-	180.0	-	M124	1
Sabre Zombie	ATACMS	AJCA	-	4.0	0.61	1.2	-	180.0	-	M124	1
K-BATS	ATACMS	HANWHA	-	4.0	0.61	1.2	-	-	-	K-BATS	1
HYSR	HYSR	LMMI	-	15.0	0.61	-	-	270.0	-	HYSR	1
SORS	SORS	DVST	-	8.0	0.60	-	-	-	-	SORS	1
B-611	B-611	SANJ	-	5.0	0.60	1.5	-	-	-	B-611	1
B-611-TR	B-611	ROKSN	-	5.0	0.60	1.5	-	-	-	B-611-TR	1
SR 0.1	SR0.1	ROKSN	-	5.0	0.60	0.0	-	-	-	ROKETSAN-SR-0.1	1
OS-M1 Stage 3	OS-M1-3	LYK	-	5.0	0.60	2.0	-	-	-	OS-M St 3	1
LS-C	LS-C	MHITO?	-	4.0	0.60	1.0	-	-	-	LE-2	1
LS-C-7	LS-C	MHITO?	-	4.0	0.60	1.0	-	-	-	LE-3 (T)	1
LS-C Booster	LS-C	MHITO?	-	2.5	0.60	0.3	-	-	-	LS-C Booster	1
KN-24	KN-24	KP	-	4.0	0.60	1.2	-	-	-	KN-ATACMS	1
Seliger 1	Seliger	DRG	-	3.0	0.60	0.5	-	49.0	-	Seliger 1	1
Seliger 3	Seliger	DRG	-	6.0	0.60	1.0	-	50.0	-	Seliger 3	1
Alcyone	BE3	HERC	-	0.6	0.60	0.1	39	34.0	8.0	BE-3B1	1
Badr-1	Grad	ANSAL	-	5.0	0.60	1.0	-	-	-	Badr-1	1
Grad	Grad	ANSAL	-	5.0	0.60	1.0	-	-	-	Badr-1	1
BE-3	BE3	HERC	-	0.6	0.60	0.1	28	34.0	9.0	BE-3	1
BE-3A4	BE3	HERC	-	0.6	0.60	0.1	28	34.0	9.0	BE-3A4	1
BE-3A5	BE3	HERC	-	0.6	0.60	0.1	28	34.0	9.0	BE-3A5	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
BE-3A9	BE3	HERC	-	0.6	0.60	0.1	28	34.0	9.0	BE-3A9	1
JTSPACE S1	JTSPACE	JTSPACE	-	5.0	0.60	0.6	-	-	-	JTSPACE M1	1
JTSPACE S2	JTSPACE	JTSPACE	-	5.0	0.60	0.6	-	-	-	JTSPACE M2	1
M-6	HJ	ABL	M6 Honest John	4.9	0.58	1.9	954	365.0	5.0	M-6	1
Taurus	HJ	ABL/WFF	-	4.3	0.58	1.4	-	457.0	3.5	Taurus	1
X-7A-1 Booster	HJ	LVN/ABL	-	6.0	0.58	1.9	1474	467.0	4.0	X-202C3	1
Taurion	HJ	WFF	-	4.3	0.58	1.4	-	13.0	32.0	M112	1
Red Kite	RedKite	BAYCH	-	3.3	0.56	1.4	265	226.0	13.0	Red Kite	1
Oriole	Oriole	DTI	-	3.9	0.56	1.0	198	92.1	-	GEM 22	1
AJ60-91	AJ60	AJGC	Aerobee 350 St2	9.1	0.56	3.0	1050	72.0	52.7	AJ11-6	4
Sonda 3-1	Sonda3	IAE	-	3.3	0.56	1.2	341	102.0	20.0	S-30	1
S31	Sonda3	IAE	-	3.2	0.56	0.9	284	136.0	11.0	S-31	1
Lance Missile	Lance	LTVM	-	6.2	0.56	-	-	20.0	114.0	P8E-9	1
SEPR-732	Stromboli	SUD	-	2.5	0.56	1.5	-	200.0	-	SEPR-732	1
RH-560S	Stromboli	VSSC	-	4.1	0.56	1.3	262	119.0	19.0	RH-560S	1
RH-560	Stromboli	VSSC	-	3.9	0.56	0.9	277	76.0	19.0	RH-560	1
RH-560 Mk III	Stromboli	VSSC	-	3.7	0.56	0.9	277	76.0	19.0	RH-560	1
RH-ATV	Stromboli	VSSC	-	3.7	0.56	0.9	277	76.0	19.0	RH-560	1
Stromboli	Stromboli	ONERA	-	3.0	0.56	0.9	246	75.0	16.0	Stromboli	1
Hatf I	Stromboli	SUPA	-	3.0	0.56	0.9	246	75.0	16.0	Stromboli	1
Aigle	Stromboli	ONERA	-	3.0	0.56	0.9	246	75.0	16.0	SEPR 737	1
Vesuve	Stromboli	ONERA	-	3.5	0.56	0.8	250	200.0	5.0	SEPR 734-1	1
Tacite	Stromboli	ONERA	-	4.7	0.56	1.7	455	170.0	20.0	SEPR 739-2	1
BER	Stromboli	ONERA	-	4.7	0.56	1.9	700	170.0	20.0	SEPR 739	1
Berenice St2	Stromboli	ONERA	-	3.8	0.56	1.1	372	170.0	20.0	SEPR 740	1
NSPO Booster	NSPOB	NSPO	-	2.4	0.55	1.0	-	-	6.0	NSPO Booster	1
Veronique	Veronique	LRBA	-	7.3	0.55	1.3	278	40.0	45.0	Veronique	1
Veronique AGI	Veronique	LRBA	Veronique	7.3	0.55	1.3	278	40.0	49.0	Veronique AGI	1
Veronique 61	Veronique	LRBA	Veronique	9.5	0.55	1.9	-	60.0	54.0	Veronique 61	1
Veronique 61M	Veronique	LRBA	Veronique	11.7	0.55	2.0	-	60.0	56.0	Veronique 61	1
Veronique R	Veronique	LRBA	-	5.8	0.55	0.5	385	40.0	6.5	Veronique	1
Veronique P2	Veronique	LRBA	-	6.0	0.55	0.5	-	10.0	-	Vero P2	1
Veronique P6	Veronique	LRBA	-	6.0	0.55	0.5	-	20.0	-	Vero P6	1
V-1000	V-1000	SKB30	-	8.0	0.55	-	-	103.0	-	S2.726	1
Luna-M	Luna	MIT	-	9.4	0.54	2.3	-	-	-	9M21	1
ASAS XL	SM3.TSRM	THKE	-	0.9	0.53	0.1	-	7.0	15.0	Mk 136	1
Mk 72	Mk72	UTC	-	1.7	0.53	0.7	243	-	-	Mk 72	1
SM-3-II-2	SM-3-II	MHI	-	2.5	0.53	-	-	-	-	SM-3-II-2	1
SM-3-II-3	SM-3-II	MHI	-	1.0	0.53	-	-	-	-	SM-3-II-3	1
Black Sparrow	BlackSparrow	IAI	-	4.8	0.53	1.2	-	-	-	Black Sparrow	1
Blue Sparrow	BlackSparrow	IAI	-	4.8	0.53	1.2	-	-	-	Black Sparrow	1
Silver Sparrow	BlackSparrow	IAI	-	7.0	0.53	2.5	-	-	-	Black Sparrow	1
Hades	Hades	AELM	-	5.0	0.53	1.8	-	-	-	Acheron	1
GLCM	GLCM	UNK	-	6.4	0.53	1.8	-	-	-	-	0
S-520	S-520	ISAS	S520	5.9	0.52	2.3	400	143.1	28.7	S-520	1
SS-520 St 2	S-520	ISAS	-	1.7	0.52	0.4	111	-	-	SS-520	1
Cedre St1	Cedre	LRS	-	2.3	0.52	1.0	-	138.0	-	Cedre St1	1
Alcor	Alcor	AJSP	-	1.9	0.52	0.5	200	36.0	30.0	30KS8000	1
Alcor IA	Alcor	AJSP	-	1.9	0.52	0.5	200	49.0	23.0	23KS11000	1
Alcor IB	Alcor	AJSP	-	1.9	0.52	0.5	88	42.0	26.0	Alcor IB	1
Cygnus 20	20SM	THKE/PARD	-	0.7	0.51	0.1	10	30.0	8.5	Cygnus 20	1
SARGE	STIG-B	EXOSA	-	11.0	0.51	1.0	363	24.1	60.0	SARGE	1
STIG-B	STIG-B	ARMAD	-	10.0	0.51	0.7	-	22.5	50.0	STIG-B	1
OS-M1 Stage 4	OS-M1-4	LYK	-	1.0	0.50	1.0	-	-	-	OS-M St 4	1
Star 20	Star20	THKE	-	1.5	0.50	0.3	26	26.5	27.5	Star 20	1
MSD	Star20	NRL	-	1.5	0.50	0.3	26	26.5	27.5	Star 20	1
FW4D	FW4	UTC	-	1.5	0.50	0.3	25	25.0	30.5	FW4	1
FW4S	FW4	UTC	-	1.5	0.50	0.3	32	25.0	30.5	FW4	1
Saman-1	Saman-1	IR	-	1.0	0.50	0.5	300	21.0	28.0	Saman-1	1
V-750	V-750	FAKEL	-	8.1	0.50	2.0	-	13.8	25.0	S2.711	1
ZUR-215	V-750	NPOL	-	8.1	0.50	2.0	-	13.8	25.0	S2.711	1
Al Samoud	V-750	IQMIC	-	6.0	0.50	2.0	360	13.8	52.0	S2.711	1
48N6	48N6	FAKEL	-	7.5	0.50	1.8	-	-	-	48N6	1
Al Fatah	Fatah	FATAH	-	4.6	0.50	1.0	454	130.0	15.0	Al Fatah	1
L500	L500	ISAS	-	2.5	0.50	0.8	-	69.0	27.0	L500	1
TT-500	JCR	NASDA	-	7.0	0.50	1.3	300	116.0	-	TT-500	1
TT-500-S2	JCR	NASDA	-	3.0	0.50	0.7	200	61.0	-	TT-500-S2	1
JCR Booster	JCR	NISST	-	5.0	0.51	0.7	-	133.0	-	JCR	1
JCR	JCR	NISST	-	5.0	0.51	0.7	-	54.0	-	JCR-S2	1
Upstage	HIBEX	BOC	-	1.0	0.50	0.2	-	-	-	Upstage	1
Momo	Momo	IST	-	6.2	0.50	1.0	-	12.0	-	Momo	1
Momo 6	Momo	IST	-	7.2	0.50	1.1	-	14.0	-	Momo 6	1
IAI Arrow St2	IAI.Arrow.St2	IAI	Arrow St2	2.5	0.50	0.5	-	-	-	IAI-Arrow-2-2	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Abid St3	Abid.St3	IQ	-	1.0	0.50	-	-	-	-	Abid St3	1
NOTS 401A	NOTS400	NOTS	-	0.8	0.50	-	-	-	7.2	NOTS 401A	1
Zeus A	Zeus-A	GCR	-	7.0	0.50	2.0	-	-	-	Zeus A	1
E-8-5 VA	E8	NPOL	-	2.3	0.50	0.4	-	-	-	E-8-5 VA	1
K-15 Booster	K-15	DRDO	-	2.0	0.50	1.0	-	-	-	K-15 Booster	1
K-15 Stage 2	K-15	DRDO	-	5.0	0.50	2.0	-	-	-	K-15 Stage 2	1
NOTS 505	NOTS505	NOTS	-	0.5	0.50	-	-	18.0	33.5	NOTS 500	1
L480S	L480S	ISAS	-	0.5	0.48	0.1	15	7.8	31.5	L480S	1
Long Tom	LongTom	WRE	-	3.1	0.47	0.6	-	190.0	3.6	Mayfly	4
Private A Booster	PrivateBooster	JPL	-	1.0	0.47	0.1	-	98.0	0.2	T-22	4
Lark	Lark	FAIRA	-	4.2	0.46	0.5	-	2.8	260.0	LR2-RM-6	1
X-241	X-241	ABL	ABL X241	1.5	0.46	0.2	25	12.1	36.0	X-241	1
RTV-A-3	RTV	NAA	-	2.5	0.46	0.6	280	12.0	-	NATIV	1
Terrier 12-0	Terrier	CONVPO	-	3.9	0.46	0.8	322	257.5	4.4	Terrier Mk12 Mod 0	1
Terrier	Terrier	HERCR?	ABL X256	3.9	0.46	0.9	322	257.5	4.4	X-256	1
Terrier Mk 12	Terrier	HERCR?	-	3.9	0.46	0.9	322	257.5	4.4	Terrier Mk12 Mod 1	1
Terrier Mk 70	Terrier	THKX	-	3.9	0.46	1.0	290	-	6.2	TX-664-4	1
T48	T48	MARTB	-	4.0	0.46	1.0	-	193.0	3.4	T48	1
X-248	Altair	ABL	-	1.8	0.46	0.3	24	13.4	38.6	X-248	1
Altair	Altair	ABL	-	1.8	0.46	0.3	24	13.0	39.0	X-248A10	1
Altair 2	Altair	ABL	-	1.5	0.46	0.3	33	27.2	28.0	X-258	1
MG-18	Altair	LPC	M-2	1.5	0.46	0.3	-	-	-	MG-18	1
GCR 33KS2800	GCR	GCR	-	1.4	0.46	0.2	30	12.5	33.0	33KS2800	1
SRAM	SRAM	BOUT	-	4.3	0.46	1.0	-	-	-	LPC-415	1
ASAT	SRAM	BOUT	-	4.3	0.46	1.0	-	-	-	LPC-415	1
MR-12	MR-12	TAIFUN	-	8.8	0.45	1.0	-	-	-	MR-12	1
MR-20	MR-12	TAIFUN	-	8.8	0.45	1.0	-	-	-	MR-20	1
M-250	MR-12	TAIFUN	-	8.8	0.45	1.0	-	-	-	MR-25	1
MR-30	MR-12	TAIFUN	-	8.8	0.45	1.0	-	-	-	MR-30	1
SS-520 St 3	SS-520-4	ISAS	-	0.6	0.45	0.1	8	-	-	SS-520 S3	1
T-7	T-7	SIMED	-	6.0	0.45	1.0	-	2.0	-	T-7 LRE	1
T-7 booster	T-7B	SIMED	-	1.0	0.45	0.5	-	2.0	-	T-7 booster	1
Tianying-3C	Tianying	CSSAR	-	5.0	0.45	1.1	0	0.0	-	Tianying 3C	1
Tianying-3F Booster	Tianying	CSSAR	-	2.7	0.45	0.5	0	0.0	-	Tianying 3F	1
Peregrine	Peregrine	MSFC	-	6.2	0.44	1.2	-	-	-	Peregrine	1
Black Brant VA	BB5	BAL	Black Brant 2A	5.2	0.44	1.0	150	111.0	15.0	15KS25000	1
Black Brant IIB	BB5	BAL	Black Brant 2B	5.2	0.44	1.0	150	89.0	23.0	23KS20000	1
Black Brant VB	BB5	BAL	Black Brant 5B	5.3	0.44	1.2	151	89.0	32.4	26KS20000	1
Black Brant VC	BB5	BAL	Black Brant 5C	5.3	0.44	1.2	240	68.2	33.0	26KS20000	1
Black Brant I	BB5	BAL	Black Brant 1	5.3	0.44	1.1	-	110.0	15.0	15KS25000	1
Black Brant Mk1	BB5	BAL	Black Brant 5C	5.3	0.44	1.2	240	68.2	33.0	BB Mk1	1
Black Brant Mk3	BB5	BAL	Black Brant 5C	5.3	0.44	1.2	240	68.2	33.0	BB Mk3	1
Black Brant Mk4	BB5	BAL	Black Brant 5C	5.3	0.44	1.2	240	68.2	33.0	BB Mk3	1
Nihka	BB5	BAL	-	2.0	0.44	0.4	79	49.9	17.8	17KS12000	1
Raven 1/1A/2A	Raven	RORD	-	5.1	0.44	1.0	240	44.5	30.0	Raven 1	1
Raven 2	Raven	RORD	-	5.1	0.44	1.0	240	44.5	30.0	Raven 2	1
Raven 5	Raven	RORD	-	5.1	0.44	1.0	240	44.5	30.0	Raven 5	1
Raven 7	Raven	RORD	-	5.1	0.44	1.0	240	44.5	30.0	Raven 7	1
Raven 6	Raven	RORD	Raven	5.4	0.44	1.2	242	52.5	36.0	Raven 6	1
Raven 8	Raven	RORD	Raven	5.4	0.44	1.1	230	50.1	30.0	Raven 8	1
Raven 11	Raven	RORD	Raven	5.5	0.44	1.3	290	105.0	39.0	Raven 11	1
Rook	Raven	RORD	Rook	5.4	0.44	1.1	186	300.0	5.5	Rook	1
Rook II	Raven	RORD	Rook	5.4	0.44	1.2	304	300.0	7.0	Rook	1
Rook IIIA	Raven	RORD	Rook	5.4	0.44	1.1	186	300.0	5.5	Rook	1
Rook IIIB	Raven	RORD	Rook	5.4	0.44	1.1	186	300.0	5.5	Rook	1
Goldfinch	Raven	BAJ	-	2.5	0.44	0.4	94	175.0	3.5	Goldfinch IIA	1
Goldfinch II	Raven	BAJ	Goldfinch	3.0	0.44	0.4	89	-	3.5	Goldfinch II	1
Cuckoo IA	Raven	RORD	-	1.0	0.44	0.2	-	80.0	4.0	Cuckoo IA	1
Cuckoo IB	Raven	RORD	-	1.2	0.44	0.2	57	80.9	4.1	Cuckoo IB	1
Cuckoo II	Raven	RORD	-	1.2	0.44	0.2	37	36.5	10.0	Cuckoo II	1
Cuckoo 4	Raven	RORD	-	1.2	0.44	0.2	-	-	4.3	Cuckoo 4	1
Saluki B	Raven	IMIS	-	1.0	0.44	0.6	-	195.5	6.0	Saluki B	1
Saluki S	Raven	IMIS	-	1.0	0.44	0.4	-	35.6	27.0	Saluki S	1
PrSM	PrSM	LM	-	4.0	0.43	1.0	-	-	-	PrSM	1
NSPO Stage 2	NSPO	NSPO	-	3.9	0.42	1.0	-	-	30.0	NSPO Sustainer	1
KSR	KSR	KARI	-	4.0	0.42	1.2	-	86.0	20.0	KSR	1
KSR Booster	KSR	KARI	-	3.6	0.42	0.8	-	211.0	5.9	KSR Booster	1
Nike	Nike	ABL	-	3.6	0.42	0.7	256	195.6	3.4	M5E1	1
2.5-DS-59000	Nike	ABL	-	3.0	0.42	0.7	-	265.0	2.5	2.5-DS-59000	1
X-201	Nike	ABL	-	3.0	0.42	0.7	-	209.0	3.0	3-DS-47000	1
XM-17	XM-17	THKX	-	1.0	0.42	0.2	-	-	-	XM-17	1
RX-420	RX-420	LAPAN	-	6.0	0.42	0.5	-	100.0	-	RX-420	1
K420	K420	ISAS	-	5.8	0.42	1.2	200	110.0	17.0	K420	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
K420H	K420	ISAS	-	5.8	0.42	1.2	200	110.0	17.0	K420H	1
K420(1/3)	K420	ISAS	-	2.0	0.42	-	-	45.0	-	K420(1/3)	1
Lambda2-2	K420	ISAS	-	8.7	0.42	1.4	300	110.0	17.0	K420	1
Lambda3-2	K420	ISAS	-	11.0	0.42	1.8	300	110.0	17.0	K420	1
Lambda3-3	K420	ISAS	-	4.8	0.42	0.5	100	110.0	-	K420	1
AAD	AAD	HAL	-	6.0	0.42	1.0	-	-	-	-	1
Zenit	Zenith	CONTR	-	5.6	0.42	0.6	150	45.0	21.0	Zenith	1
Malemute	Malemute	THKU	-	3.3	0.41	0.6	100	55.1	22.0	TU-758	1
Imp Malemute	Malemute	THKU	-	3.3	0.41	0.6	100	55.1	22.0	Imp Malemute	1
Patriot	Malemute	THKU	-	3.3	0.41	0.6	100	55.1	22.0	TX-486-1	1
Aeolus Booster	LongTom	WRE	-	1.8	0.41	0.3	-	80.0	2.7	LAPSTAR	7
HAT	LongTom	WRE	-	1.8	0.41	0.3	-	90.4	2.3	Demon	2
Gun Projectile 16	Gun16	BRL	-	1.0	0.41	0.1	-	-	-	-	0
MR-1	Sparrow	NMC	-	1.6	0.41	0.2	124	102.0	1.9	1.8KS7800	3
SPRAN-50	Daniel	ONERA	-	2.5	0.40	0.4	-	-	5.6	SPRAN-50	1
KN-25	KN-25	KP	-	3.0	0.40	2.0	-	-	-	DPRK-MLRS	1
Nike-46	Nike-46	AJ	-	1.0	0.40	1.0	-	392.0	2.0	2-AS-22000	4
Nike-47	Nike-46	AJ	-	1.0	0.40	1.1	-	392.0	2.0	2.5-AS-18000	4
Lacrosse	Lacrosse	MARTO	-	2.1	0.40	0.3	-	168.0	2.6	TX-52	1
Qaem-100 St 3	Qaem-S3	IRGC	-	0.5	0.40	10.0	-	-	-	Qaem-100 S3	1
Tien Kung 3	NSPO	NCSIST	-	5.0	0.40	0.5	-	-	-	Sky Bow III	1
ISRO-CES	ISRO-CES	ISRO	-	6.0	0.40	-	-	-	-	ISRO-CES	1
Weka	Duqm	NASCOM	-	6.5	0.40	0.1	80	-	-	Weka	1
STIG-A	STIG	ARMAD	-	9.7	0.39	0.7	-	22.5	50.0	STIG-A	1
Neptune	Neptune	ONERA	-	3.2	0.39	0.5	150	20.0	32.0	Neptune	1
Aerobee AJ10-24	Aerobee	AJ	-	5.8	0.38	0.5	184	17.8	32.1	AJ10-24	1
Aerobee AJ10-25	Aerobee	AJ	-	5.8	0.38	0.5	184	17.8	32.1	AJ10-25	1
Aerobee AJ10-27	Aerobee	AJ	-	5.8	0.38	0.5	184	17.8	32.1	AJ10-27	1
Aerobee AJ10-34	Aerobee	AJ	-	5.8	0.38	0.5	184	17.8	32.1	AJ10-34	1
Aerobee XASR-1	Aerobee	AJ	-	5.8	0.38	0.7	184	11.6	32.1	XASR-1	1
Aerobee 150	Aerobee	AJGC	Aerobee	5.1	0.38	0.7	133	17.8	51.4	AJ11-6	1
Aerobee 150A	Aerobee	AJGC	Aerobee	5.1	0.38	0.6	133	17.8	51.4	AJ11-6	1
AJ60-92	Aerobee	AJGC	Aerobee 200 St2	5.5	0.38	0.7	131	22.6	61.1	AJ60-92	1
Aerobee 100	Aerobee	AJ	Aerobee Jr	3.6	0.38	0.5	119	11.5	40.0	Aerobee Jr	1
Lance	LanceMotor	GCR	-	4.6	0.38	0.8	217	174.0	6.7	Lance	1
Skat	LanceMotor	THKX?	-	4.5	0.38	0.9	377	200.0	6.0	XM-45	1
Lance XM-45	LanceMotor	THKX	-	4.9	0.38	0.8	-	222.0	5.0	TX-77	1
Genie-Alarr	Genie	THKU	-	3.1	0.38	0.3	-	-	-	MB-1	1
Genie	Genie	THKU	MB-1	1.8	0.38	0.3	-	156.0	1.5	MB-1	1
Ute	Genie	THKU	-	1.3	0.38	0.2	62	85.0	4.6	TU-715	1
Paiute	Genie	THKU	-	1.9	0.38	0.3	81	186.0	3.7	TU-716	1
Astrobee F	AstrobeeF	AJSP	-	7.3	0.38	1.3	250	36.4	51.1	Astrobee F	1
Cygnus 15	Cygnus	LARC/THKE	-	0.4	0.38	0.1	5	22.0	4.8	Cygnus 15	1
Cetus	Cetus	LARC/THKE	-	0.5	0.38	0.1	10	40.0	20.0	NOTS 100A	1
ST-735-SB	SB-310	NISST?	-	4.7	0.38	0.3	356	0.0	0.0	-	1
Vikram-S	Vikram-S	SKYRT	-	6.0	0.38	0.5	50	70.0	23.0	Kaman-80	1
Nucleus	Nucleus	NAMMO	-	9.0	0.36	0.5	100	-	-	FWUM	1
Nazeat	Kavoshgar	IR	Iran	4.0	0.36	0.3	0	0.0	-	Kavoshgar	1
Kavoshgar	Kavoshgar	IRSA	Iran	4.0	0.36	0.3	0	0.0	-	Kavoshgar	1
Aerobee 75	Orion	AJSP	-	4.0	0.35	0.5	142	13.0	32.0	M22E8	1
Hawk	Orion	AJSP	-	5.0	0.35	0.6	-	13.0	32.0	M22E8	1
Orion	Orion	AJSP	-	2.7	0.35	0.4	111	13.0	32.0	M22E8	1
Improved Orion	Orion	AJSP	Orion	1.8	0.35	0.4	-	13.0	32.0	M112	1
Meteor-2	Meteor2	PAI	-	4.2	0.35	0.4	126	24.0	18.0	Meteor-2	1
10KS2500	10KS2500	THKE	-	2.9	0.35	0.1	-	11.0	10.0	10KS2500	1
LS-A Booster	STA	MHITO?	-	3.0	0.35	0.4	-	60.0	10.0	LS-A Booster	1
Qased-S3	Qased-S3	IRGC	-	0.5	0.35	0.3	-	-	-	Qased-S3	1
Mk 104	Standard	THKE?	-	2.9	0.35	0.5	128	-	-	Mk 104	1
Mk 104 (ARC)	Standard	ATLCA	-	2.9	0.35	0.5	128	-	-	Mk 104	1
Lynx	Standard	NAWC	-	3.0	0.35	0.5	-	-	-	Mk 104	1
Mk 56	Standard	ATLR?	-	4.5	0.35	0.6	-	-	-	Mk 56	1
Mk 30	Standard	HUMS	-	3.5	0.35	0.4	-	-	-	Mk 30	1
Iraqi Gun Projectile	IraqGun350	SRCI	-	1.5	0.35	0.1	67	-	-	-	0
NOTS 551	NOTS551	NOTS	-	3.0	0.34	0.4	85	-	28.0	NOTS Mod 551-B	1
THAAD Proto	THAAD	LMCO	-	3.8	0.34	0.6	-	-	-	THAAD	1
THAAD	THAAD	LMPCO	-	3.8	0.34	0.6	-	-	-	THAAD	1
ASROC	HOTROC	UNK	-	4.5	0.34	0.4	40	49.0	-	Mk 12 ASROC	1
Kappa 4 Booster	Kappa4	ISAS	-	3.3	0.33	0.1	0	105.0	3.0	Kappa 4 Booster	1
Sandhawk	Sandhawk	SAND	-	5.1	0.33	0.7	200	90.0	14.0	TE-473	1
Aerobee Booster	AerobeeB	AJ	-	1.8	0.33	0.3	140	80.0	2.5	AJ60-80	1
VAM Booster	AerobeeB	AJ	-	1.8	0.33	0.3	140	80.0	2.5	2.5KS18000	1
VAM-17	AerobeeB	AJ	-	1.8	0.33	0.3	140	80.0	2.5	2.5KS18000	1
VAM-20	AerobeeB	AJ	-	1.8	0.33	0.3	140	80.0	2.5	2.5KS18000	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Tramontane	Berenice	ONERA	-	2.4	0.33	0.3	124	50.0	6.7	SEPR-200	1
ASAS	SM3.TSRM	THKE	SM-3 TSRM	0.9	0.33	0.1	-	7.0	15.0	Mk 136	1
Gradicom 1	Gradicom	CITED	-	2.5	0.32	0.4	-	-	-	Gradicom 1	1
Gradicom 2	Gradicom	CITED	-	2.5	0.32	0.2	-	-	-	Gradicom 2	1
RX-320	RX-320	LAPAN	-	4.7	0.32	0.5	-	52.0	-	RX-320	1
Jericho II	Belier	SUD	-	2.7	0.31	0.3	-	20.0	23.8	Jericho II	1
Belier	Belier	SUD	-	2.9	0.31	0.3	100	20.0	23.4	Jericho IV	1
Belier II	Belier	SUD	-	2.9	0.31	0.3	80	20.0	23.4	Belier II	1
Belier III	Belier	SUD	-	2.9	0.31	0.3	100	20.0	23.4	Vega	1
RH-300	Belier	VSSC	-	2.8	0.31	0.3	79	33.3	16.0	RH-300	1
RH-300 Mk II	Belier	VSSC	-	3.4	0.31	0.5	-	39.1	20.2	RH-300-II	1
SB-310	SB-310	ISAS	-	5.8	0.31	0.5	190	95.0	7.4	SB-310	1
S-310	S-310	ISAS	S310	5.0	0.31	0.6	230	80.0	31.6	S-310	1
BT-310	S-310	ISAS	S310	6.0	0.31	0.6	230	80.0	31.6	S-310	1
S-300	S-300	ISAS	S300	6.0	0.30	0.5	-	-	-	S-300	1
LS-A	LS-C	MHITO?	-	4.5	0.30	0.3	-	10.0	35.0	LE-1	1
K10S	K10S	ISAS	-	0.5	0.30	0.1	-	-	-	K10S	1
Nike-46 Sustainer	Ajax	AJ	-	6.0	0.30	0.4	-	11.4	21.0	X21AL-2600	1
Nike-47 Sustainer	Ajax	AJ	-	6.0	0.30	0.4	-	11.4	21.0	21AL-2600	1
Nike-484 Sustainer	Ajax	AJ	-	6.0	0.30	0.4	-	11.4	21.0	21AL-2600	1
Nike-490 Sustainer	Ajax	AJ	-	6.0	0.30	0.4	-	13.8	71.0	Ajax-490	1
Ajax	Ajax	BELL	-	4.5	0.30	0.5	372	11.6	30.0	Ajax	1
Cluster Stage 3	BabySergeant	JPL	3xBaby Sergeant	1.2	0.30	0.1	63	22.0	6.0	RTV	3
Bullpup	Bullpup	THKE	-	3.0	0.30	0.3	-	111.0	-	Aerojet Mk 8	1
AAD St 2	AAD	HAL	-	4.0	0.30	1.0	-	-	-	-	1
Taepo Dong 1 Stage 3	TD3	KPA	-	1.8	0.30	0.2	50	18.0	27.0	TD1	1
Tiny Tim	TTB	USN	-	2.4	0.30	0.3	278	222.0	0.6	Tiny Tim	1
MARC 14B1	TTB	USN	-	0.8	0.30	0.1	59	84.0	0.8	MARC 14B1	7
Sonda 2A	Sonda	AVIB	-	4.2	0.30	0.3	77	36.0	20.0	S-20	1
Sonda 2M	Sonda	AVIB	-	2.2	0.30	0.2	69	18.0	20.0	S-23	1
VLS-R1	Sonda	AVIB	-	2.5	0.30	0.5	0	18.0	20.0	S-20	1
VLS-R2	Sonda	AVIB	-	3.0	0.30	0.5	0	18.0	20.0	S-20	1
VLS-R2 Strapon	Sonda	AVIB	-	2.0	0.30	0.5	0	18.0	20.0	S-20	1
VLS-R1 Strapon	Sonda	AVIB	-	2.0	0.30	0.5	0	18.0	20.0	S-20	1
WAC Corporal	WAC	JPL/DAC	-	4.9	0.30	0.3	125	6.7	45.0	WAC	1
HOTROC	HOTROC	NOTS	-	1.8	0.30	0.1	27	63.2	4.9	HOTROC	1
Iris	Iris	ATLR	-	4.0	0.30	0.5	112	17.0	52.0	MARC 13A1	1
FTI	FTI	AVIB	-	5.0	0.30	0.1	1	-	-	FTI	1
RH-300 Booster	Venus	ISRO	-	2.0	0.28	0.2	65	37.5	6.0	RH-300 Booster	1
Venus	Venus	SUD	-	2.0	0.28	0.2	66	44.0	4.3	Venus	1
Centenario	Rigel	IIAE	-	2.4	0.28	0.2	-	39.0	11.2	Centenario	1
SS-50	Rigel	IIAE	-	2.0	0.28	0.2	-	-	18.0	SS-50 Antares	1
Canopus	Rigel	IIAE	-	2.0	0.28	0.2	-	-	18.0	Canopus	1
SpaceLoft XL	SpaceLoft	UPAE	-	4.0	0.27	0.2	-	45.0	13.5	SpaceLoft	1
Spyder St 1	SpaceLoft	UPAE	-	4.0	0.27	0.2	-	45.0	13.5	Spyder-M1	1
Spyder St 2	SpaceLoft	UPAE	-	1.0	0.27	0.2	-	-	-	Spyder-M2	1
Gosling	Gosling	RORD	-	3.3	0.26	0.2	-	152.0	2.5	Gosling	1
Gosling IIN	Gosling	RORD	-	3.5	0.26	0.2	-	140.0	3.0	Gosling	1
Gosling IV	Gosling	RORD	-	3.5	0.26	0.3	-	140.0	3.0	Gosling 4	1
Gosling 4T	Gosling	RORD	-	3.6	0.26	0.3	89	137.0	3.1	Gosling 4	1
Heron	Gosling	RORD	-	3.6	0.26	0.3	72	137.0	3.1	Gosling 4	1
Goose	Gosling	RORD	-	3.4	0.26	0.3	95	22.0	17.0	Goose II	1
Snipe	Gosling	RORD	-	2.1	0.26	0.2	58	16.0	16.0	Snipe	1
Black Brant IIIA	BB3	BAL	BB3	3.7	0.26	0.3	50	49.0	9.0	9KS11000	1
Black Brant IIIB	BB3	BAL	BB3B	3.9	0.26	0.3	50	45.0	12.0	12KS10000	1
N2ORTH	Amateur	HYEND	-	7.0	0.26	0.2	-	10.0	-	HyLIGHT	1
DAC Roc	DACRoc	DAC	-	3.0	0.25	0.3	-	50.0	10.0	DACRoc	1
M-100	M-100	TAIFUN?	-	3.5	0.25	0.3	110	-	5.0	M-100	1
M-100 St2	M-100	TAIFUN?	-	1.6	0.25	0.1	55	-	4.5	M-100 St2	1
FFK	FFK	ERNO	-	4.0	0.25	0.3	-	-	-	FFK	1
HTR	HTR	NAMMO	-	10.0	0.25	0.5	-	30.0	20.0	HTR	1
CSXT	CSXT	CSXT	-	6.4	0.25	0.3	96	71.0	13.4	S-50000	1
RX-250-LPN	RX-250	LAPAN	-	5.3	0.25	0.3	-	52.0	6.0	RX-250-LPN	1
K245	K250	ISAS	-	1.0	0.25	0.1	40	34.0	9.3	K250	1
Kappa 6	K250	ISAS	-	2.3	0.25	0.2	40	34.0	9.3	K250	1
Kappa 6H	K250	ISAS	-	3.6	0.25	0.3	50	-	7.2	K250H	1
Kappa 8	K250	ISAS	-	3.1	0.25	0.3	50	34.0	9.7	K250-8	1
K250	K250	ISAS	-	4.6	0.25	0.3	50	43.0	7.6	K250	1
S-250	K250	ISAS	-	2.0	0.25	0.2	-	-	-	SO-250	1
NAL-25	STA	MHITO?	-	4.0	0.25	0.0	-	-	-	NAL-25	1
LPR-3T	ISRO-TV	VSSC	-	2.0	0.25	0.3	-	-	-	LPR-3T	1
FTV	ISRO-TV	VSSC	-	2.0	0.25	0.3	-	-	-	-	1
SEGPRO	ISRO-TV	VSSC	-	2.0	0.25	0.3	-	-	-	-	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
CB-250	CB-250	VSSC	-	1.0	0.25	0.3	-	-	-	RH-75	7
Evol GCC	EvoSpace	EVOL	-	6.0	0.25	0.4	-	-	-	Evol 1	1
Private A	PrivateA	JPL	-	2.3	0.25	0.3	130	4.4	30.0	30AS1000	1
Private F	PrivateA	JPL	-	2.3	0.25	0.3	130	4.4	30.0	30AS1000	1
Rhumi	Rhumi	SZI	-	3.5	0.25	0.2	-	2.5	20.0	Rhumi	1
Cygnus 10	10SM	PARD	-	0.4	0.25	0.0	1	10.0	3.2	Cygnus 10	1
Javelin 3	Javelin	SDCO	-	2.6	0.23	0.2	-	93.0	-	Javelin 3	1
Hydac	Javelin	SDCO	-	3.7	0.23	0.3	-	58.7	-	Hydac	1
ILR-33	Bursztyn	PAI	-	4.5	0.23	0.2	-	4.0	40.0	ILR-33	1
MLRS	MLRS	LMCAM	-	2.0	0.23	0.3	-	53.0	3.2	MLRS	1
Mesquito	MLRS	LMCAM	-	2.0	0.23	0.3	-	53.0	3.2	MLRS	1
Mayfly	LongTom	WRE	-	3.1	0.23	0.2	-	62.0	3.6	Mayfly	1
AeroHTV	AeroHTV	AEROPH	-	1.7	0.23	0.1	-	-	-	Loki	7
Recruit	Recruit	THKE	XM-19	2.6	0.23	0.2	-	156.0	1.5	1.5KS35000	1
Recruit 1A	Recruit	THKE	TE29-1A	3.1	0.23	0.2	67	132.0	2.2	TE-29-1A	1
Yardbird	Recruit	THKE	-	2.5	0.23	0.2	29	75.0	3.4	Yardbird	1
Tomahawk 1	Tomahawk	THKE	-	3.5	0.22	0.2	60	53.0	9.0	TE-406	1
Tomahawk	Tomahawk	THKE	-	3.5	0.22	0.2	60	53.0	9.5	TE-416	1
Kappa 3 Booster	K250	ISAS	-	2.5	0.22	0.2	-	-	-	K220	1
Melanie	Berenice	ONERA	-	3.0	0.22	0.1	40	38.0	4.4	Melanie	1
Orion-2	IIAE.Orion	IIAE	-	3.0	0.21	0.1	55	-	12.0	Orion-2	1
Orion-1	IIAE.Orion	IIAE	-	3.0	0.21	0.1	55	-	12.0	Orion-1	1
Cedre-4 St1	Cedre	LRS	-	3.0	0.21	1.0	-	138.0	-	Cedre-4 St1	1
Cedre St2	Cedre.St2	LRS	-	2.1	0.21	0.4	-	78.0	-	Cedre St2	1
Elan	Belenos	CFTHB	-	1.6	0.21	0.1	32	-	2.5	Agnes	1
Emilie	Belenos	CFTHB	-	1.6	0.21	0.1	32	-	2.5	Emilie	1
Vela	Vela	WRE	-	3.1	0.21	0.1	59	26.7	5.0	Vela	1
S-210	S-210	ISAS	S210	5.1	0.21	0.3	-	-	17.0	S-210	1
TT-210	TT-210	NASDA	-	5.3	0.21	0.2	-	-	-	TT-210	1
Proson St1	Proson	CITEF	-	1.5	0.20	0.1	-	-	-	Proson 1	1
Traveler	Traveler	USCLA	-	4.0	0.20	0.1	-	-	-	Traveler	1
Aftershock	Traveler	USCLA	-	4.0	0.20	0.1	-	-	-	Shockwave	1
Stratos II+	Stratos2	DARE	-	7.0	0.20	0.2	100	8.0	23.0	DHX-200 Aurora	1
Mimosa	Mimosa	ONERA	-	2.6	0.20	0.2	40	33.0	5.0	SEPR 685-4	1
RH-200	RH-200	VSSC	-	1.4	0.20	0.1	-	16.9	5.7	RH-200	1
RH-200SV	RH-200	VSSC	-	1.4	0.21	0.1	48	16.9	10.0	RH-200SV	1
MMR-06	MMR-06	GMS	-	2.5	0.20	0.1	20	-	9.0	MMR-06	1
TT-200	TT-210	NASDA	-	5.0	0.20	0.2	-	-	-	TT-200	1
T-40	T-40	THKE	T40	1.4	0.20	0.1	15	13.3	6.0	T-40	1
Cirrus I	Cirrus	DRG	-	2.0	0.20	0.1	-	5.0	-	Cirrus I	1
Cirrus II	Cirrus	DRG	-	2.0	0.20	0.1	-	18.0	-	Cirrus II	1
Kingfisher	Kingfisher	TMINUS	-	3.0	0.20	0.1	-	25.0	-	Kingfisher	1
Iroquois	Iroquois	THKE	TE-M-388	2.7	0.20	0.1	43	24.4	7.7	TE-388	1
Meteor 3B Booster	Meteor	PIHM	-	1.0	0.20	0.1	-	-	2.3	Meteor-1	3
Shrike	Sparrow	NWC	-	2.0	0.20	-	-	-	-	Mk 39	1
Sparrow	Sparrow	HUMS	Mk 6 Mod 3	1.3	0.20	0.1	-	35.0	1.8	1.8KS7800	1
22.6KS1245	Sparrow	HUMS	-	1.3	0.20	0.1	5	5.5	22.6	22.6KS1245	1
NOTS 8in	NOTS.8in	NOTS	-	0.5	0.20	0.0	3	5.1	5.7	NOTS 8	1
Petrel	Petrel	BAJUK	-	1.8	0.19	0.1	26	4.5	30.0	Lapwing	1
Petrel 2	Petrel	BAJUK	Petrel	1.8	0.19	0.1	26	4.5	30.0	Lapwing	1
Viper V	Viper5	OSCC	Viper	2.2	0.18	0.1	-	27.0	5.2	Viper V	1
Lobster I	Lobster	RORD	-	1.9	0.18	0.0	0	29.0	2.0	Lobster	1
Demon	Demon	RORD?	-	2.8	0.18	0.0	-	-	2.3	Demon	1
Dorado	Demon	WRE	-	3.1	0.18	0.1	66	42.0	4.1	Dorado	1
Gun Projectile 7	Gun07	BRL	-	1.0	0.18	0.1	-	-	-	-	0
Astrid	Astrid	LLNL	-	1.9	0.17	0.0	8	0.4	30.0	MR-125	4
Asp	Asp	COOP	-	2.7	0.17	0.1	18	26.0	5.3	RM-1100	1
Asp II	Asp	COOP	-	2.7	0.17	0.1	18	26.0	3.6	Asp II	1
Asp III	Asp	COOP	-	2.7	0.17	0.1	18	26.0	3.3	Asp III	1
Asp IV	Asp	COOP	Asp	2.8	0.17	0.1	4	12.7	12.0	RM-1400	1
Sword	Asp	LPC	-	1.2	0.17	0.1	12	16.0	3.8	Sword 3KS5000	1
Kiva	Kiva	RPI	-	2.6	0.17	0.1	24	27.0	5.5	Kiva 5.5KS6100	1
Kisha	Deacon	RPI	-	2.0	0.17	0.1	-	21.0	4.4	Kisha I 4.4KS4800	1
Cajun	Deacon	THKE	-	2.6	0.17	0.1	22	36.0	3.0	Cajun	1
Viper I	Viper	LPC	Viper	2.7	0.17	0.1	25	24.0	5.6	5.6KS5400	1
Viper IC	Viper	LPC	Viper	2.7	0.17	0.1	25	24.0	5.6	5.6KS5400	1
Viper II	Viper	LPC	Viper	2.7	0.17	0.1	25	35.8	3.8	3.8KS8040	1
SDC Viper	Viper	SDCO	Viper IIB	2.7	0.17	0.1	20	35.8	3.2	3.52KS8500	1
Apache	Deacon	THKE	-	2.6	0.17	0.1	39	21.0	6.0	TE-307	1
Deacon	Deacon	ABL	-	2.8	0.15	0.1	24	26.0	3.0	X-220	1
Melusine	Monica	CFTHB	-	1.9	0.16	0.0	29	-	8.0	Melusine	1
Melanie 1	Monica	ATEF	-	1.1	0.16	0.0	-	-	-	Melanie	1
Prosper	Monica	ATEF	-	1.2	0.16	0.0	-	-	-	Melanie	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Lex	Lex	SNECMA	-	2.6	0.16	0.1	20	10.0	20.0	MT 27	1
NAL-16	STA	MHITO?	-	3.9	0.17	0.1	40	10.0	14.0	NAL-16	1
Kappa 8L	Kappa	ISAS	-	2.4	0.16	0.1	20	-	5.3	K160	1
S-160	S-160	ISAS	S160	3.9	0.16	0.1	-	-	-	S-160	1
S-A	STA	MHITO?	-	2.8	0.16	0.0	7	2.5	-	S-A	1
S-B	STA	MHITO?	-	2.8	0.16	0.1	-	-	-	S-B	1
S-C	STA	MHITO?	-	2.8	0.16	0.1	-	-	-	S-C	1
Falcon	Falcon	THKX	-	1.0	0.16	0.0	0	0.0	0.0	Falcon	1
Hyperion	AMROC	EAC	-	5.8	0.15	0.1	46	6.0	15.0	Hyperion	1
Atea-1	Atea	RLABN	-	3.0	0.15	0.1	-	6.9	14.5	Atea-1	1
Icarus	Icarus	ERAU	-	2.3	0.15	0.0	4	15.8	6.4	Icarus	1
Arcon	Arcon	ATLR	-	2.5	0.15	0.1	30	4.5	33.0	Arcon	1
T-55	T-55	THKE?	T55	1.5	0.15	0.0	12	21.0	1.3	T-55	1
ZN-1	ZN	NUDTC	-	2.7	0.15	0.1	-	-	-	ZN-1	1
K150	K150	ISAS	-	3.5	0.15	0.1	10	19.0	15.8	K150	1
MERA	Mera	KBPT	-	1.0	0.15	0.0	0	-	-	MERA	1
AeroHTV Stage 2	AeroHTV2	AEROPH	-	1.7	0.15	0.1	-	-	-	Loki	4
RTV Motor	BabySergeant	JPL	Baby Sergeant	1.2	0.15	0.0	5	8.6	7.6	RTV	1
Baby Sergeant	BabySergeant	JPL/GCR	-	1.2	0.15	0.0	5	8.6	7.6	RM-3141	1
Astrobee D	AstrobeeD	AJSP	-	2.8	0.15	0.1	20	8.9	17.0	Astrobee D	1
Luzou	Luzou	SEP	-	0.3	0.15	0.0	3	3.0	1.7	Luzou	1
P-Vrbec	Amateur	VRBEC	-	1.5	0.15	0.0	5	-	-	P-Vrbec	1
Sirocco	Sirocco	SDCO	-	2.8	0.14	0.1	20	-	-	Sirocco	1
Meteo	Meteo	SUD	-	3.4	0.15	0.0	0	-	-	-	1
MT-135P	MT-135	NISST	-	3.3	0.14	0.0	-	12.0	10.5	MT-135	1
Ivanov	Ivanov	FIAN	-	1.0	0.14	0.1	-	-	-	-	1
Ivanov Booster	Ivanov	FIAN	-	0.4	0.14	0.1	-	-	-	-	1
GammaCen Booster	GammaCen	IIAE	-	0.8	0.13	0.0	-	-	-	-	1
Emma Booster	Emma	MATRA	-	0.8	0.13	0.0	13	14.8	1.0	SEPR P191	1
Theodore	Monica	ATEF	-	0.8	0.13	0.0	-	1.8	10.0	Theodore	1
Oreste	Monica	ATEF	-	0.5	0.13	0.0	-	0.9	8.0	Oreste	1
Emma	Emma	MATRA	-	1.7	0.13	0.1	11	1.4	37.0	SEPR P163	1
HALO	HALO	HAL5	-	1.6	0.13	0.0	10	0.2	-	HALO	1
Martlet 1	Gun16	SRCI	-	1.5	0.13	0.2	170	0.0	0.0	-	0
Martlet 2	Gun16	SRCI	-	1.5	0.13	0.2	170	0.0	0.0	-	0
Martlet 3A	Gun16	SRCI	-	1.5	0.13	0.2	170	0.0	0.0	-	0
Martlet 3B	Gun16	SRCI	-	1.5	0.13	0.2	170	0.0	0.0	-	0
Gun Projectile 5	Gun05	BRL	-	1.0	0.13	0.1	-	-	-	-	0
Kappa 1	Kappa	ISAS	-	2.7	0.13	0.0	20	10.0	3.0	Kappa 1	1
Kappa 4	Kappa	ISAS	-	2.7	0.13	0.0	20	10.0	3.0	Kappa 4	1
Cygnus 5	5inSM	LARC	5"SM	0.2	0.13	0.0	1	2.3	1.6	Cygnus 5	1
FTB	FTB	AVIB	-	3.0	0.13	0.1	1	-	-	SS-30	1
Skua	Skua	BAJUK	-	2.2	0.13	0.0	10	1.8	30.0	Bantam	1
Skua 2	Skua	BAJUK	Skua	2.4	0.13	0.0	10	1.8	30.0	Bantam 2	1
Skua 3	Skua	BAJUK	Skua	2.4	0.13	0.1	12	1.7	34.0	Bantam 3	1
Aurore	Aurore	SNECMA	-	2.1	0.13	0.1	20	10.5	5.3	Aurore	1
HVAR	HVAR	CIT/NOTS	-	1.7	0.13	0.0	17	25.0	0.9	HVAR	1
HPAG	Sidewinder	NOTS	-	1.8	0.13	0.0	12	12.5	2.7	HPAG	1
NOTS 124-C	Sidewinder	NOTS	-	1.0	0.13	0.0	0	-	-	NOTS 124-C	1
Sidewinder	Sidewinder	THKX	-	1.8	0.13	0.0	0	-	-	Mk 36	1
Sidewinder 1C	Sidewinder	THKX	-	1.8	0.13	0.0	0	-	-	Mk 36 Mod 5	1
Sidewinder 1D	Sidewinder	THKX	-	1.8	0.13	0.0	4	12.2	4.7	Mk 50 Mod 0	1
Sidewinder 1A	Sidewinder	THKX/NOTS	-	1.9	0.13	0.0	18	17.7	2.1	Mk 17	1
Sidewinder 1A-15	Sidewinder	THKX/NOTS	-	1.9	0.13	0.0	18	17.7	2.1	Mk 15	1
LAPSTAR	Lupus	WRE	-	1.5	0.13	0.1	15	13.7	2.7	LAPSTAR	1
Lupus	Lupus	WRE	-	1.7	0.13	0.0	16	9.5	5.2	Lupus 1A	1
Lupus 2	Lupus	WRE	-	1.7	0.13	0.0	16	9.5	4.0	Lupus 2	1
Lupus 3	Lupus	WRE	-	2.0	0.13	0.0	16	9.5	4.0	Lupus 3	1
Sonda 1-1	Sonda	IAE	-	1.5	0.13	0.0	15	27.0	-	Sonda 1 Booster	1
MCR-3	RH-125	VSSC	-	1.0	0.12	0.0	0	-	-	MCR-3	1
RH-125	RH-125	VSSC	-	1.4	0.12	0.0	11	8.4	2.9	RH-125	1
RH-125S	RH-125	VSSC	-	1.6	0.12	0.0	14	1.3	32.0	RH-125S	1
LPR-006	LPR-006	VSSC	-	3.0	0.13	0.2	-	6.0	-	LPR-006	1
Black Brant VI	BB6	BAL	Black Brant 6	2.0	0.12	0.1	20	7.4	9.0	9KS1660	1
INTA-100	INTA-100	INTA	-	2.5	0.12	0.0	-	1.5	32.0	Urbion	1
DIM	DIM	IIAE	-	1.9	0.12	0.0	0	-	-	DIM	1
Meteor 1	Meteor	PIHM	-	1.8	0.11	0.0	10	14.0	2.3	Meteor-1	1
Meteor 3 Booster	Meteor	PIHM	-	1.8	0.11	0.0	10	14.0	2.3	Meteor-1	1
Meteor SRB	Meteor	PIHM	-	1.7	0.11	0.0	15	14.0	2.3	Meteor-1	1
Sonda 1-2	Sonda	IAE	-	2.1	0.11	0.0	14	4.2	32.0	Sonda 1	1
O4500	Amateur	MESOS	-	1.5	0.11	0.0	15	-	-	O4500	1
Rocketsonde	Rocketsonde	UNK	-	2.0	0.11	0.0	15	-	-	-	1
Rocketsonde2	Rocketsonde2	UNK	-	2.0	0.11	0.0	15	-	-	-	1

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
Arcas	Arcas	ATLR	-	1.8	0.11	0.0	15	1.5	29.0	MARC 2B1	1
Frangible Arcas	Arcas	ATLR	-	1.8	0.11	0.0	15	1.5	29.0	MARC 2B1	1
HV Arcas	Arcas	ATLR	-	1.6	0.11	0.0	15	1.5	29.0	MARC 2C2	1
Super Arcas	Arcas	ATLR	-	2.0	0.11	0.0	15	1.5	40.0	MARC 60A	1
MARC 14A1	ArcasB	ATLR	-	0.7	0.11	0.0	6	12.0	0.8	MARC 14A1	1
MARC 42A1	ArcasB	ATLR	-	1.6	0.11	0.0	15	12.2	3.0	MARC 42A1	1
MARC 42A2	ArcasB	ATLR	-	0.9	0.11	0.0	-	-	-	MARC 42A2	1
Hopi	Hopi	RPI	-	2.1	0.11	0.0	7	18.0	3.0	Hopi 3.0KS4000	1
Hopi III	Hopi	RPI	-	2.0	0.11	0.0	8	28.0	2.1	Hopi 2.4KS5600	1
Hopi IV	Hopi	RPI	-	2.4	0.11	0.0	9	7.7	9.0	Hopi 9.0KS1800	1
Viper IIIA	Viper3	SDCO	-	2.4	0.11	0.0	9	24.7	2.2	Viper IIIA	1
TME DART	Viper3	TMINUS	-	2.3	0.11	0.0	7	8.0	6.5	TME DART	1
Super Loki	SuperLoki	SDCO	-	2.0	0.10	0.0	6	18.0	2.1	Super Loki	1
Stable Super Loki	SuperLoki	SDCO	-	2.3	0.10	0.0	7	21.0	2.1	Stable Super Loki	1
FalconLaunch	SuperLoki	USAFA	-	2.0	0.10	0.0	6	18.0	2.1	Super Loki	1
Icarus Stage 2	Icarus2	ERAU	-	1.4	0.11	0.0	4	4.1	7.0	Icarus St2	1
Excalibur	Excalibur	BAL	-	2.4	0.11	0.0	13	25.0	2.5	Excalibur	1
Proson St2	Proson2	CITEF	-	1.6	0.11	0.0	0	-	-	Proson 2	1
INTA S-12	INTA-100	INTA	-	1.6	0.10	0.0	-	16.7	1.2	INTA S-12	1
O-Vrbec	Amateur	VRBEC	-	1.5	0.10	0.0	3	-	-	O-Vrbec	1
Arcon booster	ArcasB	ATLR	-	0.7	0.10	0.0	8	14.0	0.4	Arcon booster	1
ILR-33 Booster	BursztynBooster	PAI	-	1.4	0.10	0.1	-	6.0	2.5	ILR-33 Booster	1
SkylarkMicro Booster	SkylarkMicro	SKYR	-	1.5	0.10	0.0	-	1.6	-	SkyMicro1	1
Chick	Chick	RORD	-	0.6	0.10	0.1	6	20.0	0.2	Chick	1
Chick x3	Chick	RORD	-	0.6	0.10	0.0	6	60.0	0.2	Chick	1
Chick x4	Chick	RORD	-	0.6	0.10	0.0	6	80.0	0.2	Chick	1
SPEAR-HRT St 1	Amateur	USMA	-	1.4	0.10	0.0	5	6.5	4.3	O5280X-PS DMS	1
Belisama	Belisama	CFTHB	-	1.6	0.10	0.0	14	24.0	0.9	Belisama	1
SEPR P167	SEPR167	SEP	-	1.0	0.10	0.0	-	-	-	SEPR P167	1
KM-L	KM-L	NISST?	-	0.1	0.10	0.0	4	-	-	KM-L	1
Meraki St 1	Amateur	NZRA	-	2.0	0.10	0.0	-	-	-	Meraki 07800	1
ST	STA	MHITO?	-	1.0	0.10	0.0	-	-	-	S-B	1
SA-II	STA	MHITO?	-	1.0	0.10	0.0	-	-	-	SA-II	1
GammaCen Sustainer	GammaCenS	IAE	-	1.6	0.09	-	-	-	-	-	1
LaRC Plastic	Plastic	LARC	LaRC Plastic rocket	0.5	0.09	0.0	1	0.3	3.0	LaRC Plastic	1
Musca	Musca	WRE	-	1.7	0.09	0.0	-	5.1	3.7	Musca	1
Arrow II	Loki	GCR	-	1.5	0.08	0.0	2	10.0	2.0	Arrow II	1
Loki-Dart	Loki	GCR?	Loki II Dart	1.7	0.08	0.0	3	15.0	0.8	Loki	1
Loki SR71-AD-1	Loki	SDCO	-	1.7	0.08	0.0	1	9.0	2.0	SR71-AD-1	1
Loki II	Loki	GCR	Loki	1.7	0.08	0.0	1	9.0	2.0	Loki II	1
Loki	Loki	GCR?	Loki	1.7	0.08	0.0	3	15.0	0.8	Loki	1
Judi I	Loki	RPI	-	1.7	0.08	0.0	2	9.0	1.9	Judi-I 1.9KS2150	1
Judi III	Loki	RPI	-	2.3	0.08	0.0	2	9.0	1.9	Judi-III 1.9KS2100	1
Seagull	Unknown	USN?	-	1.5	0.08	0.0	0	10.0	2.0	Seagull	1
Metroc	Loki	ATLR	-	1.4	0.08	0.0	0	0.6	17.5	MARC 21A1	1
Cedre St3	Cedre.St3	LRS	-	2.1	0.08	0.2	-	20.0	-	Cedre St3	1
RH-75	RH-75	VSSC	-	1.2	0.08	0.0	-	-	-	RH-75	1
NOTS 3in Sph.	NOTS.3inSM	NOTS	-	0.1	0.08	0.0	1	0.7	1.0	NOTS 3SM	1
Black Brant VII	BB7	BAL	-	1.7	0.09	0.0	10	1.0	4.0	BB7	1
M830	Amateur	MESOS	-	1.5	0.08	0.0	15	-	-	M830	0
HAEC FFAR	FFAR	UNK	-	1.4	0.08	0.0	-	-	2.8	HAEC FFAR	1
SkylarkMicro	SkylarkMSt2	SKYR	-	1.8	0.08	0.0	-	0.8	-	SkyMicro2	1
SPEAR-HRT St 2	Amateur	USMA	-	1.0	0.07	0.0	2	2.3	4.3	Pro75-6GXL	1
FFAR	FFAR	PARD	-	1.2	0.07	0.0	5	3.6	1.5	FFAR	1
Meraki St 2	Amateur	NZRA	-	2.0	0.07	0.0	-	-	-	Meraki N3100	1
Mk7	FFAR	PARD	-	1.2	0.07	0.0	9	9.8	0.9	Mk7	1
NAL-7	STA	MHITO?	-	2.0	0.07	0.0	-	5.0	1.0	NAL-7	1
Balloon	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F-104A Starfighter	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F2H2 Banshee	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F3H Cougar	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F4B Phantom	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F4D Phantom	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F4D-1 Skyray	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F4H Phantom	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F-15D	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F86D Sabrejet	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
F89J Scorpion	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
B-47 Stratojet	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
RB-57B	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
B-57A Canberra	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
B-58 Hustler	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
NB-52	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0

Stages

Stage_Name	Stage_Family	Stage_Manufacturer	Stage_Alt_Name	Length m	Diameter m	Launch_Mass t	Dry_Mass kg	Thrust kN	Duration s	Engine	NEng
B-52H	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
C-17	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
C-130	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
White Knight	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
White Knight 2	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
MiG31D 072	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
MiG-31	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
L-1011	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
B747-CG	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Roc	Air	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Navaho Booster	Navaho	NAAD	-	23.2	-	-	-	0.0	0.0	G-38	2
Navaho Missile	X-10	NAAD	-	21.3	-	-	-	0.0	0.0	-	0
X-10	X-10	NAAD	-	21.3	-	-	-	0.0	0.0	-	0
Regulus	Regulus	VOUA	-	10.1	1.40	6.6	-	0.0	0.0	-	0
Regulus II	Regulus	VOUA	-	20.5	1.30	10.2	-	0.0	0.0	-	0
Matador	Matador	MARTB	-	0.0	0.00	0.0	0	0.0	0.0	TX-16-1	0
Mace	Matador	MARTB	-	0.0	0.00	0.0	0	0.0	0.0	TU-223	0
Snark Booster	Snark	NORTH	-	0.0	0.00	0.0	0	0.0	0.0	N-69C Snark JATO	2
BLDT	BLDT	-	-	0.0	0.00	0.0	0	0.0	0.0	RS-B-535	4
Bomarc A	Bomarc	BOC	-	0.0	0.00	0.0	0	0.0	0.0	LR59-AJ-13	0
Bomarc B	Bomarc	BOC	-	0.0	0.00	0.0	0	0.0	0.0	XM-51	0
Bull Goose	BullGoose	FAIRA	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Hound Dog	HoundDog	NAA	-	0.0	0.00	0.0	0	0.0	0.0	-	0
X-7	X-7	LVN	-	0.0	0.00	0.0	0	0.0	0.0	-	0
X-51A	X-51	BNAP	-	4.5	0.61	0.0	0	0.0	0.0	-	0
D-21B	D-21B	LAC	-	13.1	2.10	5.1	0	0.0	0.0	-	0
BOZ	BOZ	PROG	-	0.0	0.00	0.0	0	0.0	0.0	-	0
SOZ	SOZ	PROG	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Perekhodnik	Perekhodnik	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Sep Motor Cover	Perekhodnik	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
S-II Interstage	Interstage	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
Dummy stage	Generic	-	-	0.0	0.00	0.0	0	0.0	0.0	-	0
R-UNK	UNK	UNK	-	0.0	0.00	-	-	-	-	-	1

Engines

Solid propellant engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RSRMV	NGISP	RSRM	-	-	PBAN	726000.0	1320000	9996.00	-	132.8	1	2022	SLS SRB	Solid
SRM	THKU	SRM	-	-	PBAN	590000.0	-	11790.00	267.3	123.0	1	1981	STS SRB	Solid
SRMU	ATKP	SRMU	-	-	HTPB	350000.0	-	7500.00	285.6	137.8	1	1994	Titan 4B	Solid
UA1207	UTC	T3SRM	-	-	Solid	319300.0	-	7116.90	272.0	120.0	1	1989	Titan 4 SRM	Solid
EAP MPS P238	EUROPK	Ariane	P230	-	HTPB	268000.0	-	5000.00	275.4	129.0	1	1996	Ariane 5 EAP	Solid
EAP MPS P240	EUROPK	Ariane	P230	-	HTPB	277500.0	-	5000.00	275.4	129.0	1	1996	Ariane 5 EAP	Solid
UA1206	UTC	T3SRM	-	-	Solid	251400.0	-	6227.00	265.0	114.0	1	1989	Titan 34D SRM	Solid
UA1205	UTC	T3SRM	-	-	Solid	226200.0	-	5293.30	263.0	115.0	1	1965	Titan 3 SRM	Solid
S200	VSSC	GSOM-200	-	-	HTPB	207000.0	-	6000.00	274.0	105.0	1	2009	GSLV3 GSOM	Solid
S139	VSSC	PS1	-	-	HTPB	168000.0	-	4430.00	269.0	105.0	1	1993	PSLV PS1	Solid
S125	VSSC	PS1	-	-	HTPB	157300.0	486000	4801.00	266.0	93.0	1	-	GSLV S125	Solid
P120C	AVIO	-	-	-	HTPB-2013	153000.0	368900	4500.00	278.5	132.8	1	2017	Vega-C	Solid
P80FW	AVIO	-	-	-	HTPB	97131.0	242721	2100.00	280.0	106.8	1	2012	Vega [1]	Solid
S85	ISRO	-	-	-	HTPB	87000.0	-	2600.00	-	117.0	1	2021	SSLV [1]	Solid
M-14	NISST	Mu	-	-	HTPB BP-204J	84000.0	-	3786.00	276.0	49.0	1	1995	Mu V [1]	Solid
H-II SRB-A3	NISST	NASDA	-	-	HTPB	76500.0	-	2305.00	283.6	120.0	1	-	H2A SRB-A	Solid
H3 SRB-3	NISST	-	-	-	HTPB	76200.0	-	2158.00	283.6	110.0	1	2023	H3 SRB-3	Solid
H-II SRB-A	NISST	NASDA	-	-	HTPB	75000.0	-	2250.00	280.0	100.0	1	-	H2A SRB-A	Solid
H-II SRB	NISST	NASDA	-	-	HTPB	70400.0	-	1550.00 s	273.0	94.0	1	1994	H2 SRB	Solid
15D305	YUZH	-	-	-	Solid	53700.0	-	2060.00	-	-	1	-	RT-23 [1]	Solid
3D65	YUZH	-	-	-	Solid	53700.0	-	2060.00	-	-	1	-	R-39 [1]	Solid
15D206	YUZH	-	-	-	Solid	53700.0	-	2060.00	-	-	1	-	RT-23 [1]	Solid
GEM-63XL	NGISH	-	-	-	HTPB	53400.0	-	2026.00	275.0 ?	84.0	1	2020	GEM-63XL	Solid
GEM-63	OATKH	-	-	-	HTPB	49300.0	-	1663.00	275.0 ?	94.0	1	2015	GEM-63	Solid
Castor 120	THKU	MX	-	-	HTPB	53100.0	-	1604.00	280.0	83.4	1	1995	Athena [1]	Solid
SR118	THKU	MX	TU-904	-	HTPB	48625.0	-	1711.00	281.4	78.8	1	1983 Jun 17	Peacekeeper [1]	Solid
GEM-60	OATKH	-	-	-	Solid	46200.0	-	1361.00	275.0	90.0	1	2015	Atlas V SRM	Solid
GEM-60 (D)	ATKH	GEM	-	-	HTPB	33200.0	-	758.00	275.0	90.0	1	2002 Nov 20	Delta IV SRB	Solid
AJ-60A	AJSP	-	-	-	Solid	46200.0	-	1361.00	275.0	90.0	1	2003	Atlas V SRM	Solid
CZ-11-1	SLREC	-	-	-	Solid	40000.0	-	-	248.0	-	1	2016	CZ-11 [1]	Solid
D-5-1	THKU/HERC	-	-	-	Solid	39100.0	-	-	-	64.0	1	-	Trident II [1]	Solid
M-25	NISST	Mu	-	-	HTPB BP-204J	38000.0	-	1240.00	288.0 ?	71.0	1	1995	Mu V [2]	Solid
Zefiro-40C	AVIO	-	-	-	HTPB-2013	39270.0	103600	1120.00	293.5	92.9	1	2017	Vega-C [2]	Solid
CZ-6A Booster	ARMT?	-	-	-	Solid	35000.0 ?	-	1200.00 ?	-	-	1	2020	Chang Zheng 6A	Solid
DF-31-1	ARMT	-	-	-	Solid	35000.0 ?	-	-	-	-	1	-	DF-31 [1]	Solid
DF-41-1	ARMT	-	-	-	Solid	35000.0 ?	-	-	-	-	1	-	DF-31 [1]	Solid
15D23P	ARSL	RT-2	-	-	Solid	34550.0	-	981.00	-	75.4	1	-	RT-2P [1]	Solid
15D23	ARSL	RT-2	-	-	Solid	34550.0	-	893.00	-	75.4	1	-	RT-2 [1]	Solid
M-24	NISST	Mu	-	-	HTPB BP-204J	34000.0	-	1246.00	288.0	71.0	1	1995	Mu V [2]	Solid
M-13	NISST	Mu	-	-	CTPB	33407.0	-	954.00	239.0	70.0	1	1977	Mu 3H [1]	Solid
Agni III	DRDO	Agni3	-	-	HTPB/AP/Al	33000.0	-	1040.00	237.0 s	75.0	1	2006	Agni 3 [1]	Solid
MSBS 501	G2P/SNECPS	-	-	-	Solid	30000.0 ?	-	900.00	-	60.0	1	-	MSBS M51 [1]	Solid
SR119	AJSP	MX Stage 2	-	-	HTPB	27669.0	-	1365.00	304.0	54.0	1	1983 Jun 17	Peacekeeper [2]	Solid
Castor 30XL	THKU	-	-	-	Solid	27400.0 ?	58000 ?	350.00	-	166.0	1	-	Taurus 2 [2]	Solid
M-10	NISST	Mu	-	-	Solid	26555.0	-	737.00	219.0	61.0	1	1970	Mu 4S [1]	Solid
RD RT-21 (1)	MITT	-	-	-	Solid	26000.0	-	-	-	63.0	1	-	Temp-2S [1]	Solid
15Zh58A	MITT	Topol	-	-	Solid	26000.0	-	980.00	263.0	60.0	1	-	Start-1 [1]	Solid
Zefiro 23	AVIO	-	-	-	HTPB	26563.0	67776	935.00	289.0	71.7	1	2012	Vega [2]	Solid
15D339	YUZH	-	-	-	Solid	25000.0 ?	-	1050.00	-	-	1	-	RT-23 [2]	Solid
15D207	YUZH	-	-	-	Solid	25000.0 ?	-	1050.00	-	-	1	-	RT-23 [2]	Solid
15D290	YUZH	-	-	-	Solid	25000.0 ?	-	1050.00	-	-	1	-	RT-23 [2]	Solid
R-39 St 2	YUZH	-	-	-	Solid	25000.0 ?	-	1050.00	-	-	1	-	RT-23 [2]	Solid
HS-18-S1	KPA	-	-	-	Solid	25000.0 ?	-	-	-	-	1	-	HS-18 [1]	Solid
M55A1	THKU	Minuteman	M55A1	-	PBAN	22930.0	54730	792.00	266.1	59.3	4	1961 Feb 1	Minuteman 1A XM-55	Solid
TU-122	THKU	Minuteman	M55E1	-	PBAN	23240.0	-	891.00	-	60.0	4	1962 Dec 7	Minuteman 1B	Solid
TU-122-ATK	ATKP	Minuteman	M55E1	-	PBAN	23240.0	-	891.00	-	60.0	4	1962 Dec 7	Minuteman 3 PRP	Solid
SEP 401	SEP	401	-	-	Butalane	22500.0	-	900.00	-	60.0	1	1980 Nov 18	MSBS M4 [1]	Solid
LEO-46	AJSP	-	-	-	HTPB	22102.0	56360	1265.40	-	76.0	1	2015	Super Strypi [1]	Solid
Rafe	IRGC	-	-	-	Solid	20000.0 ?	-	-	-	-	1	-	Qaem-100 [1]	Solid
GEM-46	ATKH	GEM	-	-	HTPB	19040.0	45730 ?	608.10	274.0	75.2	1	-	Delta III SRB	Solid
DF-26-1	ARMT	-	-	-	Solid	19000.0 ?	-	-	239.7	65.0	1	-	DF-26 [1]	Solid
DF-27-1	ARMT	-	-	-	Solid	19000.0 ?	-	-	239.7	65.0	1	-	DF-26 [1]	Solid
RT-1-1	OKB1	-	-	-	Solid	19000.0 ?	-	900.00	-	30.0	1	-	RT-1 [1]	Solid
Hyperbola-1 M1	ARMT	-	-	-	Solid	18000.0	-	770.00	245.0	65.0	1	-	Hyperbola-1 [1]	Solid
Zefiro	FIATA	Zefiro	-	-	HTPB 1814	17260.0	41830	590.00	271.0	71.0	1	1999	Vega [2]	Solid
M-35	NISST	Mu	-	-	HTPB	17200.0	-	445.00	295.0	129.0	1	2016	Epsilon	Solid
Ceres-1 M1	XIDO	-	-	-	HTPB	17000.0 ?	-	590.00	-	74.0	1	2020	GS-1 [1]	Solid
15D15	NII125/YUZH	-	15D151	-	Solid	16700.0	-	600.00	260.0	65.0	4	1967	RT-20P [1]	Solid
DF-21-1	ARMT	-	-	-	Solid	16621.0	-	-	239.7	65.0	1	-	DF-21 [1]	Solid
Orion 50SXL	ATKH	Orion	-	-	HTPB	16400.0	43586	594.00	295.0	73.4	1	1994	Pegasus XL [1]	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
Orion 50SXLG	ATKH	Orion	-	-	HTPB	16400.0	43586	594.00	295.0	73.4	1	2003	Taurus Lite [1]	Solid
Orion 50SXLT	ATKH	Orion	-	-	HTPB	16400.0	43586	594.00	295.0	73.4	1	2003	IRBM-T1 [1]	Solid
SICBM	THKU?	SICBM Stage 1	-	-	HTPB/NG/BTTN	16100.0	-	979.00	-	40.0 ?	1	1989 May 11	SICBM [1]	Solid
SEP 902	SEP	P-16	P-10	-	Isolane	16000.0	-	540.00	-	-	4	1968 Dec 21	SSBS S2 [1]	Solid
3D17	PERM	-	-	-	Solid	16000.0 ?	-	579.00	-	84.0	1	1973	R-31 [1]	Solid
H-II SSB (A)	NISST	NASDA	-	-	HTPB	15500.0	-	745.00	282.0	60.0	1	-	H2A SSB	Solid
RT-23-3	YUZH	-	-	-	Solid	15000.0 ?	-	206.00	-	-	1	-	RT-23 [3]	Solid
CZ-11-2	CALT	-	-	-	Solid	15000.0 ?	-	-	-	-	1	-	CZ-11 [2]	Solid
5S47	KAZSOY	-	-	-	Solid	15000.0 ?	-	-	-	5.0	1	1968	A-350Zh booster	Solid
Agni P S1	DRDO	-	-	-	Solid	15000.0 ?	-	-	-	-	1	2021	Agni P[1]	Solid
A-350 Booster	KAZSOY	-	-	-	Solid	15000.0 ?	-	-	-	5.0	1	1968	A-350 booster	Solid
51T6 Motor	KAZSOY	-	-	-	Solid	15000.0 ?	-	-	-	5.0	1	1968	A-350 booster	Solid
Nudol' St 1	ALMAN	-	-	-	Solid	15000.0 ?	-	-	-	5.0	1	2015	A-235	Solid
TX-780XL	THKX	Castor	Castor IVAXL	-	HTPB	14851.0	-	599.80	269.0	60.0	1	1980s	Atlas	Solid
Kairos Stage 1	SPONE	-	-	-	Solid	14700.0	-	-	-	-	1	2024	Kairos [1]	Solid
Algol 3A	UTC	Algol III	-	-	Solid	14136.0	32040	477.00	258.2	78.0	1	-	Scout [1]	Solid
Castor 30	THKU	-	-	-	Solid	14035.0	35200	259.00	301.0	136.0	1	-	Taurus 2 [2]	Solid
Agni III S2	DRDO	Agni3	-	-	HTBP/AP/Al	14000.0	-	315.00	294.0	110.0	1	2006	Agni 3 [2]	Solid
5S24	KAZSOY	-	-	-	Solid	14000.0 ?	-	-	-	-	1	-	V-825 [1]	Solid
Castor 30B	THKU	-	-	-	Solid	13970.0	37300	293.40	304.0	127.0	1	-	Taurus 2 [2]	Solid
Orion 50S	ATKH	Orion	-	-	HTPB	13420.0	35108	485.00	294.4	72.4	1	1990	Pegasus [1]	Solid
M-23	NISST	Mu	-	-	HTPB	13100.0	-	524.00	282.0	73.0	1	1980	Mu 3S [2]	Solid
GEM-40	ATKH	GEM	-	-	HTPB	13080.0	31600 ?	499.20	274.0	63.3	1	-	Delta II SRB	Solid
15Zh58B	MITT	Topol	-	-	Solid	13000.0	-	490.00	280.0	64.0	1	-	Start-1 [2]	Solid
ATSM-13	IAI	Shaviyt	-	-	HTPB	13000.0	-	775.00	250.0 s	55.0	1	1994	Shaviyt 1 [1]	Solid
Hyperbola-1 M2	HEXI	-	-	-	Solid	13000.0	-	597.00	282.0	-	1	-	Hyperbola-1 [2]	Solid
Sejjil	IR	-	-	-	Solid	13000.0 ?	-	560.00	230.0	45.0	1	-	Sejjil	Solid
PAP	FIATA	Ariane	P9.5	-	CTPB	12600.0	-	650.00 s	241.0 s	42.0	1	1988	Ariane 4 PAP	Solid
PSOM-XL	VSSC	PSOM	-	-	HTPB	12400.0	20700	677.00	262.0	58.0	1	2006	PSLV PSOM	Solid
C4-1	THKU/HERC	-	-	-	Solid	12100.0	-	-	-	-	1	-	Trident C-4 [1]	Solid
HS-18-S2	KPA	-	-	-	Solid	12000.0 ?	-	-	-	-	1	-	HS-18 [2]	Solid
9M76	VOTK	-	-	-	Solid	11900.0	-	-	-	-	1	-	Temp	Solid
9M76B	VOTK	-	-	-	Solid	11900.0	-	-	-	-	1	-	Temp-S	Solid
D-5-2	HERC	-	-	-	Solid	11800.0	-	-	-	65.0	1	-	Trident II [2]	Solid
ASLV AS-1	VSSC	-	-	-	Solid	11800.0	-	702.00	259.0	45.0	1	-	ASLV [1]	Solid
S9	VSSC	-	-	-	Solid	11800.0	-	702.00	259.0	45.0	1	-	S9	Solid
ASLV SRM	VSSC	-	-	-	Solid	11600.0	-	422.00	253.0	49.0	1	-	ASLV [0]	Solid
M-34c	NISST	Mu	-	-	HTPB BP-205J	11600.0	-	294.00	301.0	102.0	1	1995	Epsilon	Solid
M-34	NISST	Mu	-	-	HTPB BP-205J	11600.0	30000	294.00	301.0	102.0	1	1995	Mu V [3]	Solid
TX-780	THKX	Castor	Castor IVA	-	HTPB	11600.0	26460	433.70	237.8 s	56.2	1	1980s	Atlas IIAS [-1]	Solid
Agni	DRDO	-	-	-	Solid	11500.0 ?	-	700.00 ?	-	45.0 ?	1	-	Agni [1]	Solid
TX-859	THKX	Castor	Castor IVB	-	HTPB	11476.0	26150	429.00	-	60.9	1	1991	Castor 4B	Solid
15D24P2	ARSL	RT-2	-	-	Solid	11280.0	-	440.00	-	60.6	4	-	RT-2P [2]	Solid
A3P-1	AJSP	-	-	-	Polyurethane/AP	11100.0	-	-	-	-	1	1960	Polaris A3 [1]	Solid
15D27	TSKB7	RT-2	-	-	Solid T9-BK-6	11000.0 ?	-	412.00	-	60.0	4	1965	RT-15 [1]	Solid
PSOM	VSSC	PSOM	-	-	HTPB	11000.0	20700	677.00	262.0	44.2	1	1993	PSLV PSOM	Solid
RSA-3-2	HOUW	RSA	-	-	Solid	10971.0	-	477.00	277.0	52.0	1	1988	RSA-3	Solid
SLV-3-1	VSSC	-	-	-	Solid	10800.0	-	422.00	253.0	49.0	1	1979	SLV-3 [1]	Solid
SLV-3-1/D4	VSSC	-	-	-	Solid	10800.0	-	590.00	253.0	55.0	1	1979	SLV-3 [1] prop 8490	Solid
Algol IIC	AJSP	Algol	-	-	Solid	10795.0	24390	436.70	258.9	76.1	1	1965	Scout [1]	Solid
Algol IIB	AJSP	Algol	-	-	Solid	10759.0	24352	449.20	258.9	80.0	1	1965	Scout B [1]	Solid
Algol I	AJSP	Algol	AJ Senior	-	Solid	10710.0	18240	458.60	214.0	40.0	1	1960	Scout [1]	Solid
Algol IA	AJSP	Algol	AJ Senior	-	Solid	10710.0	18240	458.60	214.0	40.0	1	1960	Scout [1]	Solid
Algol IB	AJSP	Algol	AJ Senior	-	Solid	10710.0	18240	458.60	214.0	40.0	1	1960	Scout [1] ?	Solid
Algol IC	AJSP	Algol	AJ Senior	-	Solid	10710.0	18240	458.60	214.0	40.0	1	1960	Scout [1] ?	Solid
Algol IIA	AJSP	Algol	-	-	Solid	10709.0	24337	465.10	258.3	68.2	1	1965	Scout [1]	Solid
Algol ID	AJSP	Algol	-	-	Solid	10700.0	18100	413.00	-	44.0	1	1960	Scout [1]	Solid
Orbus 21D	UTC	Orbus	-	-	HTPB	10619.0	28140	187.00	293.0	150.0	1	1982 Oct 30	IUS [1]	Solid
TX-526	THKX	Castor 4	-	-	PBAA	10534.0	23760	428.00	-	53.9	1	1971	Athena H [1]	Solid
H-II SSB	NISST	NASDA	-	-	HTPB	10500.0	-	338.00	267.0	66.0	1	1995	H2 SSB	Solid
RSA-3-1	HOUW	RSA	-	-	Solid	10215.0	-	451.00	265.0	52.0	1	1988	RSA-3	Solid
A2P-1	AJSP	-	-	-	Polyurethane/AP	10100.0	-	-	-	-	1	1960	Polaris A2 [1]	Solid
SEP 903	SEP	P-10	P-10	-	Isolane	10000.0	-	440.00	-	-	4	1965 Oct 23	SSBS S2 [2]	Solid
SEP 904	SEP	P-10	P-10	-	Isolane	10000.0	-	450.00	-	50.0	4	1966 May	MSBS M1 [1]	Solid
SEP 901	SEP	P-10	P-10	-	Isolane	10000.0	-	440.00	-	50.0	4	1966 May	SSBS S01 [1]	Solid
Zoljanah-1	IRGC	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	Zoljanah [1]	Solid
KPN-Solid1	KP	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	KN-11-1	Solid
Agni V S3	DRDO	Agni3	-	-	HTBP/AP/Al	10000.0 ?	-	315.00	294.0	110.0	1	2006	Agni 3 [2]	Solid
MSBS 502	G2P/SNECPS	-	-	-	Solid	10000.0 ?	-	300.00	-	70.0	1	-	MSBS M51 [2]	Solid
C3-1	THKU/HERC	-	-	-	Solid	10000.0 ?	-	-	-	-	1	1968	Poseidon C-3 [1]	Solid
DF-31-2	ARMT	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	DF-31 [2]	Solid
DF-41-2	ARMT	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	DF-31 [2]	Solid
R-39 St 3	MAK	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	R-39	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
53T6	PERM/KAZSOY	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	53T6	Solid
5Ya26	PERM/KAZSOY	-	-	-	Solid	10000.0 ?	-	-	-	-	1	-	5Ya26	Solid
RD RT-15-2	OKB1	-	-	-	Solid	10000.0 ?	-	500.00	-	30.0	1	-	RT-15	Solid
M-20	NISST	Mu	-	-	Solid	9850.0	-	285.00	261.0	66.0	1	1970	Mu 4S [2]	Solid
M-22	NISST	Mu	-	-	Solid	9833.0	-	285.00	273.0	70.0 ?	1	1972	Mu 3C [2]	Solid
Zefiro 9A	AVIO	-	-	-	HTPB	9730.0	-	221.00	294.0	110.0	1	2012	Vega [3]	Solid
15D24	ARSL	RT-2	-	-	Solid	9600.0	-	432.00	-	59.0	1	-	RT-2 [2]	Solid
ATSM-9	IAI	Shaviyt	-	-	HTPB	9100.0	-	-	-	-	1	1988	Shaviyt [2]	Solid
TX-500	THKXM	-	-	-	CTPB	9000.0 ?	-	2000.00	-	-	1	1968	Spartan[1]	Solid
S-43	IAE	Sonda	-	-	Solid	8820.0	19500	308.00	279.1	62.0	1	-	VLS	Solid
SEP 402	SEP	402	-	-	Butalane	8800.0	-	300.00	-	70.0	1	1980 Nov 18	MSBS M4 [2]	Solid
RD RT-21 St2	MITT	-	-	-	Solid	8700.0	-	-	-	-	1	-	Pioner [2]	Solid
RD RT-21-3	MITT	-	-	-	Solid	8700.0	-	1000.00 ?	-	245.0 ?	1	-	RT-21 [3]	Solid
DF-21-2	ARMT	-	-	-	Solid	8686.0	-	-	286.4	62.0	1	-	DF-21 [2]	Solid
TR-1	NASDA	-	-	-	HTPB BP-201J	8558.0	32000 ?	608.00	271.6	52.0	1	1989	TR-1	Solid
TR-1A	NASDA	-	-	-	HTPB BP-201J	8558.0	32000 ?	716.00	271.6	49.0	1	1989	TR-1A	Solid
PS3	VSSC	PS3	-	-	HTPB	8400.0	28000	324.00	294.0	83.0	1	1993	PSLV PS3	Solid
A1P-1	AJSP	-	-	-	Polyurethane/AP	8330.0	-	-	-	-	1	1960	Polaris A1 [1]	Solid
C4-2	HERC	-	-	-	Solid	8000.0	-	-	-	-	1	-	Trident C-4 [1]	Solid
Ceres-1 M2	XIDO	-	-	-	HTPB	8000.0 ?	-	274.00	285.8	70.0	1	2020	GS-1 [2]	Solid
SR120	HERC	MX Stage 3	-	-	NEPE Polyethane	7983.0	-	329.00	306.0	62.0	1	1983 Jun 17	Peacekeeper [3]	Solid
S7	ISRO	-	-	-	HTPB	7700.0	-	250.00	-	121.0	1	2021	SSLV [2]	Solid
ST-735-1	ISAS	-	-	-	Solid	7400.0	-	250.00	-	49.0	1	-	ST-735 [1]	Solid
eSR19	AJSP	-	-	-	CTPB	7280.0	-	270.00	287.5	65.5	1	1964 Sep 24	Minuteman 2/3 [2]	Solid
SR19	AJSP	Minuteman-SR	-	-	CTPB	7280.0	-	270.00	287.5	65.5	1	1964 Sep 24	Minuteman 2/3 [2]	Solid
SR19-ATK	ATKP	Minuteman-SR	-	-	CTPB	7033.0	-	268.00	287.5	65.5	1	2004	Minuteman 2/3 [2]	Solid
JL1-1	CALT	-	-	-	Solid	7000.0 ?	-	-	-	-	1	2019	JL-1 (1)	Solid
JL1-2	CALT	-	-	-	Solid	7000.0 ?	-	-	-	-	1	2019	JL-1 (2)	Solid
C3-2	HERC	-	-	-	Solid	7000.0 ?	-	-	-	-	1	1968	Poseidon C-3 [2]	Solid
CHGB FSRM	NGISP	-	-	-	Solid	6800.0	-	-	-	32.0	1	2022	CHGB [1]	Solid
Alfa	BPD	-	-	-	Solid	6500.0 ?	-	250.00 ?	-	57.0	1	1973	Alfa [1]	Solid
R-31 St 2	PERM	-	-	-	Solid	6500.0 ?	-	233.00	-	73.6	1	1973	R-31 [2]	Solid
TX-454	THKX/THKXM	-	-	-	CTPB	6454.0	-	-	-	-	1	1967	Spartan [2]	Solid
DF-15	ARMT	-	-	-	Solid	6200.0	-	-	-	-	1	-	DF-15	Solid
LPC-A92	LPC	-	-	-	Solid	6000.0	-	121.00	-	89.0	1	-	D-21 booster	Solid
Rita II	SEP	P-6	P6	-	Isolane	6000.0	-	320.00	-	52.0	1	1973	MSBS M2 [2]	Solid
LRAShM S1	DRDO	-	-	-	Solid	6000.0	-	-	-	0.0	1	-	LRAShM [1]	Solid
15Zh58V	MITT	Topol	-	-	Solid	6000.0	-	245.00	280.0	56.0	1	-	Start-1 [3]	Solid
FG-46	HEXI	-	-	-	Solid	5985.0	-	292.00	177.0	87.0	1	1990	EPKM	Solid
L735	NISST	L735	-	-	Polyurethane	5982.0	-	363.00	215.0	28.8	1	1966	Lambda [1]	Solid
M56A1 PRP	AJSP	Aries	M56A1	-	Polyurethane	5480.0	12400	202.00	267.3	61.0	4	1961 Feb 1	Minuteman 1A	Solid
DF-11	SANJ	-	-	-	Solid	5400.0	-	93.20	-	-	1	-	DF-11	Solid
SQ/DF-11	SANJ	-	-	-	Solid	5400.0	-	93.20	-	-	1	-	DF-11	Solid
S-40	IAE	Sonda	-	-	PBHL/AP/Al	5340.0	11600	191.00	270.8	58.2	1	1991	VS-40 [1]	Solid
TX-135	THKX	-	-	-	CTPB	5295.0	-	2000.00	-	4.5	1	1968	Spartan [1]	Solid
M56A1	AJSP	Aries	M56A1	-	Polyurethane	5240.0	12400	207.00	267.3	61.0	4	1961 Feb 1	Minuteman 1A	Solid
Kairos Stage 2	SPONE	-	-	-	Solid	5200.0	-	-	-	-	1	2024	Kairos [2]	Solid
SB-735	NISST	L735	-	-	CTPB	5124.0	-	328.00	266.0	38.0	1	1985	Mu 3SII [0]	Solid
Stonechat II	RPEW	-	-	-	Solid	5090.0	9610	242.00	293.0 ?	32.8	1	1971	Stonechat	Solid
MSBS 503	G2P/SNECPS	-	-	-	Solid	5000.0 ?	-	100.00	-	40.0	1	-	MSBS M51 [3]	Solid
KPN-Solid6	KP	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	KN-11-1	Solid
Shourya	DRDO	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	Shourya [2]	Solid
Agni P S2	DRDO	-	-	-	Solid	5000.0 ?	-	-	-	-	1	2021	Agni P[2]	Solid
Sejjil St 2	IR	-	-	-	Solid	5000.0 ?	-	560.00	230.0	20.0 ?	1	-	Sejjil	Solid
15Zh59A	VOTK	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	Kuryer [1]	Solid
15Zh59B	VOTK	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	Kuryer [2]	Solid
KPN-Solid2	KP	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	KN-11-2	Solid
K-4 Booster	DRDO	-	-	-	Solid	5000.0 ?	-	-	-	-	1	2016	K-4	Solid
K-4 Stage 2	DRDO	-	-	-	Solid	5000.0 ?	-	-	-	-	1	2016	K-4	Solid
Qaem-100 S2	IRGC	-	-	-	Solid	5000.0 ?	-	-	-	-	1	-	Qaem-100 [2]	Solid
X-260	ABL	-	-	-	Solid DB/AP	4900.0	-	-	-	-	1	1960	Polaris A3 [2]	Solid
CHGB SSRM	NGISP	-	-	-	Solid	5000.0 ?	-	-	-	50.0	1	2022	CHGB [2]	Solid
SLV-3-2	VSSC	-	-	-	Solid	4900.0	-	267.00	266.9	45.0	1	1979	SLV-3 [2]	Solid
SLV-3-2/D4	VSSC	-	-	-	Solid	4900.0	-	267.00	266.9	40.0	1	1979	SLV-3 [2]	Solid
Stonechat I	RPEW	-	-	-	Solid	4780.0 ?	8340	232.00	258.2 ?	32.3	1	1969	Stonechat	Solid
15D94	ARSL	RT-2	-	-	Solid	4640.0	-	176.00	271.0	49.0	1	-	RT-2P [3]	Solid
CPKM	ARMT	-	-	-	Solid	4635.0	11360	222.80	280.0	65.2	1	1995	CZ-2E/Asiasat	Solid
Star 63F	THKE	-	TE-M-936-2	-	HTPB	4591.0	12535	104.70	297.1	120.0	1	1993	Star 63F	Solid
S4	ISRO	-	-	-	HTPB	4500.0	-	160.00	-	112.0	1	2021	SSLV [3]	Solid
15D92	TSKB7	RT-2	-	-	Solid	4500.0 ?	-	-	-	-	1	-	RT-2	Solid
DF-16	PLA	-	-	-	Solid	4500.0 ?	-	-	-	-	1	2015	DF-16	Solid
ASLV AS-2	VSSC	-	-	-	Solid	4400.0	-	304.00	275.9	36.0	1	-	ASLV [2]	Solid
TX-354-3	THKX	Castor	Castor 2A	-	CTPB	4427.0	10301	275.10	281.9	39.0	1	-	Scout [2]	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
XM-33-20-4	THKX	Castor	Castor	-	PBAA	4360.0	7268	276.00	224.0	27.0	1	-	Scout X-1 [2]	Solid
Orion 50XL	ATKH	Pegasus	-	-	HTPB	4331.0	11218	196.00	289.0	72.5	1	1994	Pegasus XL [2]	Solid
Orion 50XLT	ATKH	Pegasus	-	-	HTPB	4331.0	11218	196.00	289.0	72.5	1	1994	IRBM-T1[2]	Solid
TX-354-4	THKX	Castor	Castor 2	-	CTPB	4320.0	9732	259.00	-	37.0	1	1965	Castor II	Solid
A1P-2	AJSP	-	-	-	Polyurethane/AP	4300.0	-	-	-	-	1	1960	Polaris A1 [2]	Solid
X-250	ABL	-	DDT-70	-	Solid DB/AP	4200.0	-	-	-	-	1	1960	Polaris A2 [2]	Solid
Agni St2	DRDO	-	-	-	Solid	4200.0 ?	-	-	-	60.0 ?	1	-	Agni II [2]	Solid
Pershing 2 St1	HERC	-	-	-	HTPB	4110.0	-	172.00	276.0	58.0	1	1982	Pershing 2 [1]	Solid
LRAShM S2	DRDO	-	-	-	Solid	4000.0	-	-	-	0.0	1	-	LRAShM [2]	Solid
Zolfaghar	IRGC	Zulfiqa	-	-	Solid	4000.0	-	-	-	-	1	2021	Zolfaghar	Solid
P4	SEP	Rita I	P-4	-	Isolane	4000.0	12000	176.00	-	65.0	1	1966 May	MSBS M1 [2]	Solid
Ceres-1 M3	XIDO	-	-	-	Solid	4000.0 ?	-	86.00	287.0	69.0	1	2020	GS-1 [3]	Solid
Hyunmoo 1	ADD	-	-	-	Solid	4000.0 ?	-	-	-	-	1	-	-	Solid
Hyunmoo-2B	ADD	-	-	-	Solid	4000.0 ?	-	-	-	-	1	-	-	Solid
ADD-SLV-1	ADD	-	-	-	Solid	4000.0 ?	-	-	-	-	1	-	-	Solid
Oka	KBM	-	9M714	-	Solid	4000.0 ?	-	-	-	-	1	-	-	Solid
Shaheen-2	PKNDC	-	-	-	Solid	4000.0 ?	-	-	-	-	1	-	Shaheen 2 [2]	Solid
ZQ-1-3	ARMT	-	-	-	Solid	4000.0 ?	-	-	-	-	1	-	ZQ-1[3]	Solid
ST-735-2	ISAS	-	-	-	Solid	4000.0 ?	-	250.00 ?	-	-	1	-	ST-735 [2]	Solid
TX-33	THKX	Castor	Castor	-	PBAA	4000.0	7311	240.00	254.3	27.4	1	-	Castor I	Solid
XM-33E2	THKX	Castor	TX-33-28	-	PBAA	4000.0	7311	240.00	254.3	27.4	1	-	Castor I	Solid
XM-33E3	THKX	Castor	TX-33-20	-	PBAA	4000.0	7311	240.00	254.3	27.4	1	-	Castor	Solid
XM-33E5	THKX	Castor	TX-33-33	-	PBAA	4000.0	7311	240.00	254.3	27.4	1	-	Castor	Solid
XM-33E6	THKX	Castor	Shotput	-	PBAA	4000.0	7311	240.00	254.3	27.4	1	-	Castor	Solid
XM-33E8	THKX	Castor	Castor	-	PBAA	3970.0	8272	236.70	254.3	35.3	1	-	Castor I (mod)	Solid
Orbus 6E	UTC	Orbus	-	-	HTPB	3865.0	-	76.50	303.8	104.0	1	1982 Oct 30	IUS [2]	Solid
Hyperbola-1 M3	HEXI	-	-	-	Solid	3850.0	-	195.00	290.0	-	1	-	Hyperbola-1 [3]	Solid
Hyperbola-1B M3	HEXI	-	-	-	Solid	3850.0	-	195.00	290.0	-	1	-	Hyperbola-1 [3]	Solid
Pollux	THKX	Castor	XM-33E4	-	Polysulfide	3742.0	-	222.00	-	27.0	1	1959	Pollux	Solid
SR73	AJSP	Minuteman-SR	-	-	CTPB	3655.0	-	152.00	285.0	61.0	1	1968 Aug 16	Minuteman 3 [3]	Solid
SR73-ATK	ATKP	Minuteman-SR	-	-	CTPB	3655.0	-	152.00	285.0	61.0	1	1968 Aug 16	Minuteman 3 PRP [3]	Solid
M-3B	NISST	Mu	-	-	HTPB	3603.0	-	132.00	293.1	87.0	1	1985	Mu 3S2 [3]	Solid
NAL-735	NISST	-	-	-	Solid	3500.0	-	250.00	-	49.0	1	2002	NAL-735	Solid
Star 63D	THKU	-	TU-936	-	HTPB	3500.0	9046	84.80	283.0	118.0	1	1985	PAM-D2	Solid
15D25	ARSL	RT-2	-	-	Solid	3500.0	-	215.00	-	45.0	1	-	RT-2 [3]	Solid
LEO-7	AJSP	-	Orbus 7	-	Solid	3587.0	9266	105.10	-	57.4	1	-	Super Strypi [2]	Solid
TX-238	THKXM	-	-	-	PBAA	3492.0	-	-	-	-	1	-	TX-238	Solid
Orion LAS-AM	ATKP	-	-	-	Solid	3464.0	-	1780.00	-	2.5	1	-	Orion LAS	Solid
Orion 50	ATKH	Pegasus	-	-	HTPB	3370.0	8666	138.00	292.3	73.3	1	1990 Apr 5	Pegasus [2]	Solid
KM-V2b	NISST	KM	-	-	HTPB	3300.0	-	99.80	301.0	90.0	1	2013	Epsilon	Solid
9M723	VOTK	-	-	-	Solid	3300.0	-	-	-	-	1	-	Iskander	Solid
SICBM2	AJSP	SICBM Stage 2	-	-	PEG/NG/BTTN	3260.0	12000 ?	267.00	-	44.0	1	1989 May 11	SICBM [2]	Solid
TX-20	THKX	-	XM-20?	-	Solid PS	3200.0	-	220.00	-	23.8	1	-	Sergeant	Solid
XM-20	THKX	-	XM-20	-	Solid PS	3200.0	6350 ?	198.00	-	32.0	1	-	Draco, X-17	Solid
TX-12	THKX	-	XM-100	-	Polysulphide	3134.0	-	-	-	-	1	1950s	Sergeant	Solid
TKS VA SAS	OKB52	TKSVA	-	-	Solid	3000.0 ?	-	-	-	-	1	-	TKS VA SAS	Solid
27D6	KAZOKB	-	-	-	Solid	3000.0 ?	-	-	-	-	1	-	Kontakt [1]	Solid
15Zh59V	VOTK	-	-	-	Solid	3000.0 ?	-	-	-	-	1	-	Kuryer [3]	Solid
IRCPS FSM	NGISP	IRCPS	-	-	Solid	3000.0 ?	-	-	-	-	1	-	IRCPS 1	Solid
JL1-3	CALT	-	-	-	Solid	3000.0 ?	-	-	-	-	1	2019	JL-1 (3)	Solid
Aerojet Jr	AJSP	Aerojet Jr	-	-	Solid	3000.0 ?	7100	254.00	-	28.0	1	1961	Aerojet Jr	Solid
X-265	HERC?	-	-	-	Solid	3000.0 ?	-	-	-	-	1	-	X-265	Solid
RD RT-1-3	OKB1	-	-	-	Solid	3000.0 ?	-	240.00	-	42.0	1	-	RT-1 [3]	Solid
HS-18-S3	KPA	-	-	-	Solid	3000.0 ?	-	-	-	-	1	-	HS-18 [3]	Solid
Shourya Booster	DRDO	-	-	-	Solid	3000.0 ?	-	-	-	-	1	-	Shourya [1]	Solid
XM-51	THKX/THKU	Bomarc Booster	TX-131	-	Solid	2990.0	-	222.00	-	30.0	1	1958	Bomarc B [0]	Solid
KM-V2c	NISST	KM	-	-	HTPB	2900.0	-	99.60	299.0	88.0	1	2016	Epsilon	Solid
KZ1-3	ARMT	-	-	-	Solid	2850.0	-	-	290.4	55.0	1	-	KZ-1 [3]	Solid
KZ2-3	ARMT	-	-	-	Solid	2850.0	-	-	290.4	55.0	1	-	KZ-1 [3]	Solid
KZ1AE-3	ARMT	-	-	-	Solid	2850.0	-	-	290.4	55.0	1	-	KZ-1 [3]	Solid
DF-31-3	ARMT	-	-	-	Solid	2800.0 ?	-	-	-	-	1	-	DF-31 [3]	Solid
DF-41-3	ARMT	-	-	-	Solid	2800.0 ?	-	-	-	-	1	-	DF-31 [3]	Solid
M-30	NISST	Mu	-	-	Solid	2781.0	-	128.00	265.0	42.0	1	1970	Mu 4S [3]	Solid
RV-A-10	THKX	Sergeant	Hermes A-2	-	Solid T14E1	2700.0	3600	157.50	-	24.0	1	1953	RV-A-10	Solid
PRD-33	ISKRM	-	-	-	Solid	2700.0	-	1962.00	-	4.5	1	1959	V-1000 booster	Solid
Kairos Stage 3	SPONE	-	-	-	Solid	2700.0	-	-	-	-	1	2024	Kairos [3]	Solid
Pershing 2 St2	HERC	-	-	-	HTPB	2600.0	-	134.00	279.0	46.0	1	1983	Pershing 2 [2]	Solid
N-69C Snark JATO	ABL	Snark	-	-	Solid	2500.0 ?	2300 ?	580.00	-	4.0	1	1955	Snark	Solid
N-69A Snark JATO	ABL	Snark	-	-	Solid	2500.0 ?	1900 ?	470.00	-	4.0	1	1955	Snark	Solid
Skybolt	AJSP	-	-	-	Solid	2500.0	-	164.00	245.0	40.7	1	-	Skybolt	Solid
ADD-SLV-2	ADD	-	-	-	Solid	2500.0 ?	-	-	-	-	1	-	-	Solid
L735(1/3)	NISST	L735	-	-	Polyurethane	2474.0	-	115.00	242.9	38.4	1	1966	Lambda [2]	Solid
XM-42	HERCR	Nike M-42	-	-	Solid	2400.0	-	-	-	-	1	1956	4-Nike cluster	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
9M21	VOTK	-	-	-	Solid	2300.0	-	-	-	-	1	-	Luna-M	Solid
TX-174	THKXM	-	Pershing	-	PBAA	2269.0	-	117.00	-	39.0	1	1960	Pershing [1]	Solid
NA 803 Soleil	SNPE	Soleil	-	-	Isolane	2250.0	6460	147.00	-	44.0	4	1963 Dec 21	Topaze	Solid
NA 804	SNPE	Soleil	-	-	Isolane	2250.0	6460	147.00	-	44.0 ?	4	1963 Dec 21	Topaze	Solid
NA 805	SNPE	Soleil	-	-	Isolane	2250.0	6460	147.00	-	44.0 ?	4	1963 Dec 21	Topaze	Solid
UM-129A	NISST	-	-	-	Solid	2200.0	-	77.50	291.0	68.0	1	-	H-I [3]	Solid
LPC-A1	LPC	-	-	-	Solid	2200.0	-	690.00	-	3.0	1	1966	Apollo LES	Solid
Star 48BV	THKE	-	-	-	HTPB	2168.0	5801	152.00 ?	292.0	84.1	1	-	Conestoga	Solid
Star 48V	THKE	-	TE-M-940-1	-	HTPB	2160.0	5801	68.80	292.1	84.1	1	-	Conestoga	Solid
Star 48B	THKE	-	TE-M-711-18	-	HTPB	2140.0	5801	68.70	292.1	84.1	1	1980	Delta PAM-D	Solid
Star 48B (17)	THKE	-	TE-M-711-17	-	HTPB	2134.0	5673	67.20	286.0	84.1	1	1980	STS PAM-D	Solid
LPC A-1	LPC	-	-	-	Solid	2130.0	2292	690.00	-	-	1	1965	Apollo LES	Solid
Star 48	THKE	-	TE-M-711-3	-	HTPB	2113.0	-	67.20	286.0	88.0	1	1980	Star 48	Solid
RSA-3-3	HOUW	-	-	-	Solid	2048.0	-	59.00	298.0	94.0	1	1988	RSA-3	Solid
GF-02	BWYIC	-	-	-	Solid	2050.0	4500	29.00	253.9	38.0	1	1970	CZ-1 [3]	Solid
M57A1	HERC	M57	M57A1	-	CMDB	2030.0	4485	76.00	276.0	59.0	4	1961 Feb 1	Minuteman 1A [3]	Solid
ADD-SLV-3	ADD	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	-	Solid
Salman	IRGC	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	Qased [2]	Solid
ARRW Booster	AJSP	-	-	-	Solid	2000.0 ?	0	-	-	-	1	-	ARRW	Solid
OS-M St 3	LYK	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	OS-M1 [3]	Solid
DPRK-MLRS	KP	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	DPRK-MLRS	Solid
ISRO-CES	ISRO	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	ISRO-CES	Solid
CZ-11-3	CALT	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	CZ-11 [3]	Solid
CZ-11-4	CALT	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	CZ-11 [4]	Solid
GF-01A	BWYIC	-	-	-	Solid	2000.0	-	29.00	230.0	140.0	1	-	-	Solid
Nudol' St 2	ALMAN	-	-	-	Solid	2000.0 ?	-	-	-	5.0	1	2015	A-235	Solid
K-15 Stage 2	DRDO	-	-	-	Solid	2000.0 ?	-	-	-	-	1	2007	K-15	Solid
NP-110	IR	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	Fateh-110	Solid
Fateh-360	IR	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	Fateh-360	Solid
AUS-51	RAFL	-	-	-	HTPB	2000.0	-	58.00	295.0	92.0	1	1988	Shaviyt [3]	Solid
JL1-4	CALT	-	-	-	Solid	2000.0 ?	-	-	-	-	1	2019	JL-1 (4)	Solid
Zeus A	GCR	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	Zeus A	Solid
KT1-3	ARMT	-	-	-	Solid	2000.0 ?	-	-	-	-	1	-	KT-1 [3]	Solid
SEPR 739	SEPR	Berenice	BER	-	Plastolane	1930.0	-	170.00	260.0 s	20.0	1	1960s	Berenice	Solid
X-251	ABL	Talos	Talos	-	Solid	1922.0	2700	516.00	-	5.3	1	-	Talos	Solid
Trident St 3	UTC	-	-	-	Solid	1900.0	-	-	-	-	1	1977	Trident [3]	Solid
NA 801	SNPE	Mamouth	-	-	Solid	1800.0	-	190.00	-	18.0	1	-	Agate	Solid
S-520	NISST?	-	-	-	HTPB	1796.0	3984	143.20	264.8	28.7	1	1980	S-520	Solid
IRIS	FIATA	IRIS	-	-	HTPB 1813	1720.0	4580	58.00	291.0	79.0	1	1992	Lageos PKM	Solid
M-6	ABL	M6	Honest John	-	Solid	1713.0	1800	373.00 s	-	5.2	1	1963	HJ [X-202]	Solid
M-6 4DS105000	HERCR	JATO M6	X-202E1	-	Solid	800.0 ?	1870	470.00	-	4.4	1	1950?	HJ 4DS105000	Solid
ASLV AS-3	VSSC	-	-	-	Solid	1710.0	-	90.70	277.0	45.0	1	-	ASLV [3]	Solid
SEPR 739-2	ONERA/SEPR	-	Tacite	-	Solid	1702.0	-	170.00 ?	234.0	20.0	1	1965	Tacite	Solid
SICBM3	HERC	SICBM Stage 3	-	-	PEG/NG/BTTN	1550.0	-	88.00	-	-	1	1989 May 11	SICBM [3]	Solid
NA 802 Soleil C	SNPE	Soleil	-	-	Isolane	1530.0	4680	120.00	245.0	39.0	4	1962 Dec 19	Topaze Court	Solid
KN-02 Motor	CMIK	-	Tochka	-	Solid	1530.0 ?	-	-	-	-	1	-	KN-02	Solid
KN-23 Motor	CMIK	-	Tochka	-	Solid	1530.0 ?	-	-	-	-	1	-	KN-23	Solid
KN-23X Motor	CMIK	-	Tochka	-	Solid	1530.0 ?	-	-	-	-	1	-	KN-23	Solid
9M79	VOTK	-	Tochka	-	Solid	1530.0 ?	-	-	-	-	1	1970	Tochka	Solid
9M79-1	VOTK	-	Tochka	-	Solid	1530.0 ?	-	-	-	-	1	1970	Tochka-U	Solid
IRCPS SSM	NGISP	IRCPS	-	-	Solid	1500.0 ?	-	-	-	-	1	-	IRCPS 2	Solid
SLV-3-3	VSSC	-	-	-	Solid	1500.0	-	90.70	276.9	45.0	1	1979	SLV-3 [2]	Solid
SLV-3-3/D4	VSSC	-	-	-	Solid	1500.0	-	90.70	276.9	50.0	1	1979	SLV-3 [2]	Solid
Talos Mk 11 Mod 2	ABL	Talos	Talos	-	Solid	1500.0 ?	2700	516.00	-	5.3	1	-	Talos [X-251C1]	Solid
IAI-Arrow-1	IAI	-	-	-	Solid	1500.0 ?	-	-	-	-	1	-	Arrow 2	Solid
IAI-Arrow-2	IAI	-	-	-	Solid	1500.0 ?	-	-	-	-	1	-	Arrow 2	Solid
IAI-Arrow-3	IAI	-	-	-	Solid	1500.0 ?	-	-	-	-	1	-	Arrow 3	Solid
48N6	FAKEL	-	-	-	Solid	1500.0 ?	-	-	-	-	1	-	48N6	Solid
SEP 403	SEP	403	-	-	Butalane	1500.0	-	100.00	-	40.0	1	1980 Nov 18	MSBS M4 [3]	Solid
TX-175	THKXM	Pershing	-	-	PBAA	1473.0	-	85.00	-	39.0	1	1960	Pershing [2]	Solid
KM-V1	NISST	KM	-	-	HTPB	1430.0	-	52.00	298.0	73.0	1	1995	Mu V [4]	Solid
Star 37XE	THKE	TE-364	TE-M-714-8	-	HTPB	1401.0	-	56.00 ?	289.6	66.0 ?	1	-	Star 37XE	Solid
Star 31	THKE	Antares	TE-M-762	-	HTPB/AP/Al TP-H-334	1392.0	3738	82.30	293.5	45.0	1	-	Scout G [3]	Solid
Taurus	UNK	M6	M31A1	-	Solid	1343.0	1592	-	-	3.5	1	1977 Jul 19	Taurus Orion [1]	Solid
TX-261-3	THKX	Pedro	Pedro	-	PBAA	1307.0	2761	244.00	-	11.3	1	-	Pedro	Solid
TX-261-2	THKX	Pedro	Pedro	-	PBAA	1307.0	2761	244.00	-	11.3	1	-	Pedro	Solid
TX-261	THKX	-	-	-	PBAA	1307.0	2761	244.00	-	11.3	1	-	TX-261	Solid
X-254 (1)	ABL	Antares	Antares 1A	-	Solid	1300.0	2376	59.40	-	40.0	1	1960	Antares	Solid
Qaem-100 S3	IRGC	-	-	-	Solid	1300.0 ?	-	-	-	-	1	-	Qaem-100 [3]	Solid
Astrobee F	AJSP	Astrobee	-	-	HTPB	1300.0 ?	2440	36.40	-	51.1	1	1972	Astrobee F	Solid
TT-500	NASDA	-	-	-	Solid	1300.0 ?	-	116.00	-	-	1	-	TT-500	Solid
JCR	NASDA	-	-	-	Solid	1300.0 ?	-	133.00	-	-	1	-	JCR	Solid
RH-560S	VSSC	-	-	-	Solid	1300.0	-	119.00	-	19.0	1	-	RH-560S	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
Raven 11	RPEW	Raven	-	-	Solid	1280.0	2502	105.00	-	39.0	1	-	Skylark 5	Solid
M-3A	NISST	Mu	-	-	Solid	1245.0	-	61.00	283.0	54.0 ?	1	1972	Mu 3C [3]	Solid
Skybolt St2	AJSP	-	Skybolt.St2	-	Solid	1230.0	-	81.80	245.0	41.3	1	1950s	Skybolt [2]	Solid
S-30	IAE	Sonda	-	-	Solid	1205.0	2256	102.00	266.3	22.0	1	1976	Sonda 3	Solid
KN-ATACMS	KP	-	-	-	Solid	1200.0 ?	-	180.00	-	-	1	-	KN-ATACMS	Solid
M124	AJCA	ATACMS	-	-	Solid	1200.0 ?	-	180.00	-	-	1	-	ATACMS	Solid
K-BATS	HANWHA	-	-	-	Solid?	1200.0 ?	-	-	-	-	1	2014?	K-BATS	Solid
X-259	ABL	Antares	Antares 2	-	Solid	1275.0	-	96.50	-	-	1	1962	Antares 2	Solid
X-259-B3	ABL	Antares	Antares 2	-	Solid	1275.0	3225	93.10	281.4	35.9	1	-	Scout B [3]	Solid
X-254	ABL	Antares	Antares 1A	-	Solid	1230.0	2330	60.50	255.0	39.0	1	1960	Scout X-1[3]	Solid
TX-30	THKXM	-	-	-	Polysulfide	1206.0	-	44.50	-	29.0	1	1960	Nike Hercules [2]	Solid
XM-30	THKXM	-	-	-	Solid	1200.0 ?	-	54.30	-	37.0	1	1959	X-17, Draco	Solid
KSR	KARI	-	-	-	Solid	1200.0	1700 ?	86.30	235.0	20.0	1	1993	KSR-I	Solid
KSR Booster	KARI	-	-	-	Solid	1200.0 ?	1250 ?	211.00	-	5.9	1	1993	KSR-II	Solid
Paekkom	ADD	-	-	-	Solid	1000.0 ?	-	-	-	-	1	-	Paekkom bst (1/4)	Solid
Acheron	UNK	-	-	-	Solid	1200.0 ?	-	-	-	-	1	1988	Hades	Solid
Black Sparrow	IAI	-	-	-	Solid	1200.0 ?	-	-	-	-	1	-	Black Sparrow	Solid
Peregrine	MSFC	MSFC	-	-	Solid	1200.0 ?	-	-	-	-	1	2013	Peregrine	Solid
Al Fatah	FATAH	-	-	-	Solid	1200.0 ?	1950	130.00	238.0	15.0	1	-	Black Sparrow	Solid
Red Kite	BAYCH	-	-	-	Solid	1180.0	0	226.00	-	13.0	1	2023	Red Kite	Solid
Rook II	RPEW	Raven	-	-	Solid	1170.0	1735	-	-	7.0	1	1960	Rook	Solid
26KS20000	BAL	BB5	BB5	-	AP/Al/Polyurethane	1167.0	2251	89.00	230.2	26.0	1	-	BB5	Solid
BB Mk1	BAL	BB5	BB5	-	HTPB	1167.0	2251	89.00	230.2	26.0	1	2007	BB Mk1	Solid
BB Mk3	BAL	BB5	BB5	-	HTPB	1167.0	2251	89.00	230.2	26.0	1	2007	BB Mk3	Solid
Raven 1	RPEW	Raven	-	-	Solid	1160.0	-	80.00	214.5	35.0	1	-	Skylark [?]	Solid
Raven 2	RPEW	Raven	-	-	Solid	1160.0	-	80.00	214.5	35.0	1	-	Skylark [?]	Solid
Raven 5	RPEW	Raven	-	-	Solid	1160.0	-	80.00	214.5	35.0	1	-	Skylark [?]	Solid
Raven 6	RPEW	Raven	-	-	Solid	1160.0	-	80.00	214.5	35.0	1	-	Skylark	Solid
Raven 7	RPEW	Raven	-	-	Solid	1160.0	-	80.00	214.5	35.0	1	-	Skylark [?]	Solid
Star 37FM	THKE	TE-364	TE-M-783	-	HTPB	1147.0	3052	45.80	291.8	66.4	1	-	Delta 7326 st 3	Solid
Star 37E	THKE	TE-364	TE-M-364-4	-	Solid	1123.0	2911	-	283.6	-	1	-	Star 37C	Solid
23KS20000	BAL	BB	-	-	Polyurethane	1113.0	2050 ?	89.00	217.0 ?	23.0	1	1957	Black Brant IIB	Solid
SEPR 740	SEPR	-	-	-	Plastolane	1110.0	-	-	238.0	20.0	1	1962	Berenice St 2	Solid
SEPR 740-3	SEPR	-	-	-	Plastolane	1110.0	-	-	238.0	20.0	1	1962	-	Solid
K420	ISAS	-	-	-	SP Polysulphide	1100.0	-	-	-	17.0	1	1958	Kappa 8	Solid
K420H	ISAS	-	-	-	UP Polyurethane	1100.0	-	-	-	17.0	1	1962	Kappa 9	Solid
Star 37GV	THKE	TE-364	-	-	HTPB	1084.0	2825	87.00	290.0	49.0	1	-	Delta 7326 st 3	Solid
Rook	RPEW	Raven	-	-	Solid	1057.0	1720	-	-	5.5	1	1960	Rook	Solid
X-254 [1]	ABL	Antares	Antares 1A	-	Solid	1050.0	4200	62.00	255.0	39.0	1	1960	Antares	Solid
Hyperbola-1 M4	HEXI	-	-	-	BHT	1050.0	-	60.00	290.0	-	1	2019	Hyperbola-1 [4]	Solid
Hyperbola-1B M4	HEXI	-	-	-	BHT	1050.0	-	60.00	290.0	-	1	2019	Hyperbola-1 [4]	Solid
Star 37C	THKE	TE-364	TE-M-364-18	-	Solid	1047.0	2708	-	285.5	-	1	-	Star 37C	Solid
Raven 8	RPEW	Raven	-	-	AP	1018.0	-	50.00	209.5	35.0	1	-	Skylark	Solid
LPC-415	LPC	-	SRAM	-	Solid	1000.0 ?	-	-	-	-	1	1969	SRAM	Solid
Start	MITT	Topol	-	-	Solid	1000.0	-	100.00	295.0	207.0	1	-	Start-1 [4]	Solid
Hyunmoo SLV4	ADD	-	-	-	Solid	1000.0 ?	-	-	-	0.0	1	2022	Hyunmoo SLV [4]	Solid
K-15 Booster	DRDO	-	-	-	Solid	1000.0 ?	-	-	-	-	1	2007	K-15 booster	Solid
2S-SL	DRDO	-	-	-	Solid	1000.0 ?	-	-	-	-	1	2017	PDV Target [2]	Solid
KSLV SRM	KARI	-	-	-	Solid	1000.0 ?	-	80.00	-	44.0	1	2009	KSLV	Solid
NSPO Booster	NSPO	-	-	-	Solid	1000.0 ?	-	-	-	6.0	1	-	NSPO	Solid
NSPO Sustainer	NSPO	-	-	-	Solid	1000.0 ?	-	-	-	30.0	1	-	NSPO	Solid
Badr-1	ANSAL	-	-	-	Solid	1000.0 ?	-	-	-	-	1	-	Badr-1	Solid
28D6	KAZOKB	-	-	-	Solid	1000.0 ?	-	-	-	-	1	-	Kontakt [2]	Solid
Seliger 1	DRG	-	-	-	Solid	1000.0 ?	-	50.00	-	-	1	1962	Seliger	Solid
Safir	IR	-	-	-	Solid	1000.0 ?	-	-	-	-	1	2008	Safir [3]	Solid
Ababeel	PKNDC	-	-	-	Solid	1000.0 ?	-	-	-	-	1	2016	Ababeel [3]	Solid
X-271	HERC	-	-	-	Solid	1000.0 ?	-	-	-	-	1	-	X-271	Solid
PrSM	LM	-	-	-	Solid	1000.0 ?	-	-	-	-	1	-	PrSM	Solid
M5E1 (XM42)	THKXM	Nike	M30? X216	-	Solid	984.0	-	-	-	-	1	1956	NHer booster(1/4)	Solid
GEM 22	ATKABL	GEM 22 Oriole	-	-	HTPB	980.0	-	92.10	-	-	1	2000	Oriole	Solid
Cygnus 40	LARC/THKE	TE-M-186	40" SM	-	Solid	972.0	-	83.00	-	26.0	1	-	40" SM	Solid
15KS25000	BAL	BB	-	-	Polyurethane	970.0	1670	111.00	217.0	15.0	1	1957	Black Brant I	Solid
TX-664-4	THKXM?	Terrier	Mk 70	-	HTPB	969.0	-	-	-	6.2	1	-	SM-2 [1]	Solid
S-31	IAE	Sonda	-	-	Solid	961.0	1730	136.00	261.0	12.0	1	2004	Sonda VSB-30	Solid
Star 37XFP	THKE	TE-364	TE-M-714-16	-	HTPB	955.0	2538	38.00	290.0	66.0	1	1985	Star 37XFP	Solid
Star 37XF	THKE	TE-364	TE-M-714-8	-	HTPB	953.0	2340	56.00 ?	290.0	66.0 ?	1	-	Star 37XF	Solid
Stromboli	SDP	-	-	-	Plastolite	942.0	1550	97.00	230.0	16.0	1	1968	Eridan [1]	Solid
Star 37F	THKE	TE-364	TE-M-364-19	-	Solid	934.0	2445	-	286.0	-	1	-	Star 37F	Solid
Lance	GCR	6.65-KS-38800	-	-	Solid	761.0	1148	173.00	215.0	6.7	1	1958	X-7A3 Booster	Solid
XM-45	THKX	TX-77	Skat	-	Solid	922.0	-	200.00 ?	-	6.0	1	1964	TB2 [2]	Solid
5KS50000	THKX	TX-77?	-	-	Solid	900.0 ?	-	222.00	-	5.0	1	1958	X-7A3 Booster	Solid
TX-77	THKX	-	-	-	Solid	824.0	-	227.00	-	8.7	1	-	X-7A3 Booster	Solid
S-44	IAE	Sonda	-	-	Solid	917.0	2250	30.80	281.9	73.0	1	1991	VLS [4]	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RX-420	LAPAN	-	-	-	Solid	900.0 ?	-	-	-	-	1	2009	RX-420	Solid
NOTS 500	NOTS	-	-	-	Polyurethane-AP	900.0 ?	-	-	-	45.0	1	1960	Caleb [1]	Solid
RH-560	VSSC	-	-	-	Solid	900.0	-	76.00	-	19.0	1	-	RH-560	Solid
SEPR 737	ONERA	-	-	-	Solid	900.0	-	75.00	-	16.0	1	-	Aigle	Solid
Orion 38	ATKH	Pegasus	-	-	HTPB	896.0	2185	36.00	289.6	69.6	1	1990 Apr 5	Pegasus [3]	Solid
Terrier Mk12 Mod 0	UNK	Terrier	-	-	Solid	845.0	1157	257.50	195.4	4.4	1	-	Terrier	Solid
L500	NISST	L735	-	-	PB	832.0	-	65.00	249.3	27.0	1	1966	Lambda [3]	Solid
X-256	ABL	Terrier	-	-	Solid	820.0	1134	257.50	195.4	4.4	1	-	Terrier [X-256]	Solid
Terrier Mk12 Mod 1	ABL	Terrier	Adv Terr BT3	-	Solid	817.0	1134	257.50	195.4	4.4	1	-	Terrier [X-256A1]	Solid
T48	MARTB/HERCR?	-	-	-	Solid	900.0	658	193.00 ?	-	3.4	1	1954	Nike T48 Ajax	Solid
SEPR 734-1	SEPR	-	Vesuve	-	Solid	800.0 ?	1025	200.00 ?	-	5.0	1	1959	Antares [1]	Solid
B-611	SANJ	-	-	-	Solid?	800.0 ?	-	-	-	-	1	2000?	B-611	Solid
B-611-TR	ROKSN	-	-	-	Solid?	800.0 ?	-	-	-	-	1	2000?	B-611-TR	Solid
N-25 Snark JATO	ABL	Snark	X-226	-	Solid	800.0 ?	800 ?	209.00	-	4.0 ?	1	1955	Snark	Solid
HIBEX-U	HERC	-	-	-	Solid	800.0 ?	-	2180.00	-	1.1	1	1965	HIBEX	Solid
HIBEX	HERC	-	-	-	Solid	800.0 ?	-	2180.00	-	1.1	1	1965	HIBEX	Solid
4KS115000	AJ	-	Regulus JATO	-	Solid	800.0 ?	2000 ?	512.00	-	4.0	1	1950s	Regulus 2	Solid
4DS105000 C1	ABL	JATO	X-202C1	-	Solid	800.0 ?	1900 ?	470.00	-	4.0	1	1950?	JATO/Talos	Solid
4DS105000 C6	ABL	JATO	X-202C6	-	Solid	800.0 ?	1870	470.00	-	4.4	1	1950?	HJ prototype	Solid
X-202C3	ABL	-	4DW105000	-	Solid	800.0 ?	1900 ?	470.00	-	4.0	1	1950?	X-7A1 Booster	Solid
P068	SEP	Rubis	-	-	Solid	775.0	2300	52.50	280.0	46.5	1	1970	Diamant B [3]	Solid
Star 37D	THKE	TE-364	TE-M-364-3	-	Solid	719.0	1860	45.00	266.0	-	1	-	Star 37C	Solid
Star 37B	THKE	TE-364	TE-M-364-2	-	Solid	718.0	1860	-	291.0	-	1	1966	Star 37B	Solid
P064	SEP	Rubis	-	-	Solid	712.0	2300	52.00	-	45.0	1	1965	Diamant A [3]	Solid
Star 37S	THKE	TE-364	TE-M-364-15	-	Solid	711.0	1870	-	287.3	-	1	-	Star 37C	Solid
LEO-1	AJSP	-	-	-	Solid	710.0	1845	50.00	-	51.5	1	2015	Super Strypi	Solid
Mk 72 UTC	UTC	Terrier	-	-	HTPB	710.0	-	-	-	-	1	-	SM-3 [1]	Solid
Mk 72	AJCA	Terrier	-	-	HTPB	710.0	-	-	-	-	1	-	SM-3 [1]	Solid
TU-223	THKU	-	M16E3	-	Solid	700.0 ?	-	449.00	-	2.4 ?	1	1955	Mace Booster [0]	Solid
SM-3-II-2	MHI	-	-	-	Solid	700.0 ?	-	-	-	-	1	-	SM-3-II-2	Solid
2.5-DS-59000	ABL	-	-	-	Solid	700.0 ?	-	265.00	-	2.5	1	-	Nike Deacon mod	Solid
3-DS-47000	ABL	Nike	X-201A3 T-39	-	Solid	700.0 ?	-	209.00	-	3.0	1	1950	Nike X201 Ajax	Solid
TT-500-S2	NASDA	-	-	-	Solid	700.0 ?	-	61.00	-	-	1	-	TT-500-S2	Solid
JCR-S2	NASDA	-	-	-	Solid	700.0 ?	-	54.00	-	-	1	-	JCR	Solid
S-310	ISAS	-	-	-	PB	671.0	-	80.00	-	31.6	1	1975	S-310	Solid
Trident Motor	NORTHC	-	-	-	Solid	670.0	-	35.00	268.0	-	2	1967	RMP-B	Solid
Star 30E	THKE	-	TE-M-700-19	-	HTPB/AP/Al	666.0	1788	35.30	290.5	49.0	1	1980s	Star 30E	Solid
M5E1	ABL	Nike	X-216	-	Solid	630.0	640	195.60	-	3.3	1	-	Nike (Operational)	Solid
X-216A2	ABL	Nike	2.5-DS-59000	-	Solid	630.0	640	262.00	-	2.5	1	-	Nike 1249	Solid
XM5	ABL	Nike	2.5-DS-59000	-	Solid	630.0 ?	-	262.00	-	2.5	1	1950s	Nike (3-fin)	Solid
M112 (1)	AJSP	-	Hawk	-	Solid	630.0 ?	-	-	-	-	1	1958	Hawk	Solid
Star 30C	THKE	-	TE-M-700-18	-	HTPB/AP/Al	629.0	1500	32.70	286.8	51.0	1	1980s	Star 30C	Solid
Star 37N	THKE	TE-364	TE-M-364-14	-	Solid	622.0	1591	-	290.0	-	1	-	Star 37N	Solid
Star 37	THKE	TE-364	TE-M-364-1	-	Solid	621.0	1585	-	260.0	-	1	1966	Star 37	Solid
Imp Malemute	THKU	SAM-D	Malemute	-	Solid	619.0	1395	55.10	281.2	22.0	1	1974	Malemute (TX-486-1?)	Solid
TX-486-1	THKX?	SAM-D	Malemute	-	Solid	619.0	1395	55.10	281.2	22.0	1	1974	Patriot TX-486-1	Solid
TU-758	THKU	SAM-D	Malemute	-	Solid	619.0	1395	55.10	281.2	22.0	1	1974	Malemute (TX-516?)	Solid
TX-16-1	THKX?	-	M16F1	-	Solid	618.0	-	254.00	-	2.4	1	1955	Matador [0]	Solid
TE-473	THKE	Sandhawk	Sandhawk	-	Solid	600.0 ?	1400	80.00	238.0	15.0	1	-	Sandhawk	Solid
Mk 56 ALTR	ATLR	-	-	-	Solid	600.0 ?	-	-	-	-	1	-	SM-1	Solid
Mk 56	AJSP	-	-	-	Solid	600.0 ?	-	-	-	-	1	-	SM-1	Solid
JTSPACE M1	JTSPACE	-	-	-	Solid	600.0 ?	-	-	-	-	1	-	JTSPACE SR	Solid
JTSPACE M2	JTSPACE	-	-	-	Solid	600.0 ?	-	-	-	-	1	-	JTSPACE SR	Solid
Zenith	CONTR	-	-	-	Solid	600.0	900	45.00	-	21.0	1	1967	Zenith	Solid
KM-M	NISST	KM	-	-	HTPB	550.0	1375	32.00	293.0	63.0	1	1985	Mu 3S2 [4]	Solid
Star 30BP	THKE	-	TE-M-700-20	-	HTPB/AP/Al	542.0	1460	27.00	292.0	54.0	1	1980	Star 30BP	Solid
Star 30B	THKE	-	TE-M-700-5	-	HTPB/AP/Al	537.0	1460	27.00 ?	293.0	54.0 ?	1	1980	Star 30	Solid
Kaman-80	SKYRT	-	-	-	Solid	500.0 ?	-	70.00	-	23.0	1	2022	Vikram-S	Solid
Mage 2	SEPB	-	-	-	CTPB 16.12	520.0	-	46.20	294.0	43.0	1	1980	Mage 2	Solid
AS-4	VSSC	-	-	-	HEF-20	512.0	-	35.00	281.0	33.4	1	1987	ASLV [4]	Solid
MARC 13A1	ATLR	-	52KS3850	-	Solid	506.0	-	17.00	-	52.0	1	1960	Iris	Solid
SB-310	NISST	-	-	-	Polyurethane?	502.0	-	95.00	220.0	7.4	1	1966	Lambda [0]	Solid
RH-300-II	VSSC	-	-	-	Solid	500.0 ?	-	39.10	-	20.2	1	-	RH-300-II	Solid
29D6	KAZOKB	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	Kontakt [3]	Solid
T-7 booster	SIMED	-	-	-	Solid	500.0 ?	-	2.00	-	-	1	-	T-7	Solid
Neptune	SEPR?	-	-	-	Solid	500.0 ?	630	20.00 ?	-	32.0	1	1959	Antares [2]	Solid
SEPR-732	SEPR	-	-	-	Solid	500.0 ?	940	-	-	4.7	1	-	SE4400 booster	Solid
IAI-Arrow-2-2	IAI	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	Arrow 2	Solid
Saman-1	IR	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	Simorgh [3]	Solid
Alcor IB	AJ	Alcor	Alcor IB	-	PB	500.0	1148	42.80	-	26.5	1	-	Alcor IB	Solid
RX-320	LAPAN	-	-	-	Solid	500.0 ?	510	-	-	-	1	2008	RX-320	Solid
Vero P2	LRBA	-	-	-	Solid	500.0 ?	-	10.00 ?	-	-	1	1952	Veronique P2	Solid
Vero P6	LRBA	-	-	-	Solid	500.0 ?	-	20.00	-	-	1	1952	Veronique P6	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
23KS11000	AJ	Alcor	Alcor IA	-	PB	500.0 ?	-	49.00	-	23.0	1	-	Alcor IA	Solid
THAAD Proto	UTC	-	-	-	Solid	500.0 ?	-	-	-	-	1	1995	THAAD	Solid
THAAD	AJSP	-	-	-	Solid	500.0 ?	-	-	-	-	1	2004	THAAD	Solid
NOTS 401A	NOTS	NOTS 400	-	-	Solid	500.0 ?	-	-	-	7.2	1	1970	NOTS 401A	Solid
Sky Bow III	NSPO	NSPO	-	-	Solid	500.0 ?	-	-	-	-	1	-	Sky Bow	Solid
Abid St3	IQ	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	Abid St 3	Solid
MR-12	TAIFUN	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	MR-12	Solid
MR-20	TAIFUN	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	MR-20	Solid
MR-25	TAIFUN	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	MR-25	Solid
MR-30	TAIFUN	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	MR-30	Solid
15D171	YUZH	-	-	-	Solid	500.0 ?	-	-	-	-	1	-	MR-UR-100 BR	Solid
Seliger 3	DRG	-	-	-	Solid	500.0 ?	-	50.00	-	-	1	1962	Seliger	Solid
Mk 104	AJCA	-	TU-876?	-	Solid TP-H 1205C	486.0	-	-	-	-	1	-	SM-2 [2], Lynx	Solid
Star 30A	THKE	-	TE-M-700-4	-	HTPB/AP/Al	492.0	1345	27.00 ?	294.7	54.0 ?	1	1980	Star 30	Solid
E-8-5 VA	NPOL	-	-	-	Solid	481.0	-	-	-	-	1	-	E-8-5 VA	Solid
Mk 12 ASROC	UNK	-	-	-	Solid	480.0 ?	-	49.00	-	-	1	-	ASROC	Solid
30KS8000	AJ	Alcor	Alcor I	-	Polyurethane	478.0	1070	36.00	-	30.0	1	-	Alcor I	Solid
Orbus 1	UTC	-	-	-	Solid	476.0	-	31.00	-	-	1	1988	Orbus 1	Solid
Orbus 1A	ATKE	-	-	-	Solid	476.0	-	31.00	-	-	1	2005	Orbus 1	Solid
LS-A Booster	NASDA	-	-	-	Solid	475.0	600	60.00	-	10.0	1	1964	LS-A [1]	Solid
KM-P	NISST	KM	-	-	HTPB	461.0	-	31.30	286.0	44.0	1	1985	Mu 3S2 [4]	Solid
Mage 1S	SEPB	-	-	-	CTPB 16.12	450.0	-	33.50	291.0	48.5	1	1980	Mage 1S	Solid
M-40	NISST	Mu	-	-	Solid	445.0	-	26.50	270.0	40.0	1	1970	Mu 4S [4]	Solid
Saluki S	IMIS	-	-	-	Solid	442.0	-	35.60	-	27.0	1	1960	Blue Water [2]	Solid
Goldfinch II	RPEW	-	-	-	Solid	410.0	700	175.00	225.0	3.5	1	1964	Jabiru	Solid
Goldfinch IIA	RPEW	-	-	-	Solid	410.0	700	175.00	225.0	3.5	1	-	Skylark	Solid
PTDU	SOYUZ?	-	11D82M	-	Solid	405.0	736	29.00	277.4	23.3	1	1960s	Zenit/Resurs	Solid
17KS12000	BAL	BB5	Nihka	-	Solid	402.0	915	53.00	284.9	17.8	1	1981 Aug 14	BB10 [3]	Solid
Tianying 3F	SZRTC?	-	-	-	Solid	400.0 ?	-	-	-	-	1	2016	Tianying 3F	Solid
Evol 1	EVOL	-	-	-	Solid	400.0 ?	-	-	-	-	1	2023	Gold Chain Cowboy	Solid
Gradicom 1	CITED	-	-	-	Solid	400.0 ?	-	-	-	-	1	-	Gradicom 1	Solid
SS-520	ISAS	-	-	-	Solid	400.0 ?	-	-	-	-	1	-	SS-520 St 2	Solid
S-300	ISAS	-	-	-	Solid	400.0 ?	-	-	-	-	1	-	S-300	Solid
Mk 30	ATLR	-	-	-	Solid	400.0 ?	-	-	-	-	1	-	SM-1	Solid
3KS33000	AJ	-	Regulus JATO	-	Solid	400.0 ?	440 ?	147.00	-	3.0	1	1950s	Regulus 1	Solid
SPRAN-50	ONERA	-	-	-	Solid	400.0 ?	-	-	-	5.6	1	1959 Jan	Daniel	Solid
Kavoshgar	IR	-	-	-	Solid?	400.0 ?	-	-	-	12.0	1	2007	Kavoshgar	Solid
M112	AJSP	Mk 56 type	-	-	Solid	395.0	-	-	-	-	1	-	Hawk/Ta Orion [2]	Solid
M22E8	AJ	Orion	-	-	Solid	389.0	-	-	-	-	1	1977 Jul 19	Taurus Orion [2]	Solid
NOTS Mod 551-B	NOTS	-	-	-	E107M polyurethane	371.0	831	-	270.0	28.0	1	1965	Terrier/551	Solid
TX-239	THKX	-	-	-	Solid PBAA	368.0	-	-	-	-	1	1959	Nike Zeus [3]	Solid
Meteor-2	PIHM	-	-	-	Solid	368.0	423	24.00	-	18.0	1	1968	Meteor-2	Solid
Mage 1	SEPB	-	-	-	CTPB 16.12	368.0	-	28.20	284.7	34.0	1	1977	Mage 1	Solid
SpaB-65	ARMT	-	-	-	Solid	367.0	-	-	-	-	1	-	KT-1 [4]	Solid
SLV-3-4	VSSC	-	-	-	HEF-20	360.0	-	26.80	282.9	33.0	1	1979	SLV-3 [4]	Solid
Saluki B	IMIS	-	-	-	Solid	360.0	-	195.50	-	6.0	1	1960	Blue Water [1]	Solid
Star 27	THKE	-	TE-M-616	-	CTPB/AP/Al	360.5	951	26.70	288.0	34.3	1	1976	Star 27]	Solid
Waxwing	RPEW	Waxwing	-	-	Solid RD2435	351.0	845	28.80	276.0	40.0	1	1969	Waxwing]	Solid
K420(1/3)	ISAS	-	-	-	UP Polyurethane	350.0 ?	-	-	-	-	1	1966	Kappa 10	Solid
ABL JATO	ABL	JATO	3-DS-50000	-	Solid	350.0 ?	-	222.00	-	3.0	1	1947 Aug	JATO	Solid
Tiny Tim	USN	-	-	-	Solid	345.0	130	220.00	-	0.6	1	1945	WAC	Solid
X-248 [1]	ABL	Altair	Altair I	-	Solid	330.0	518	13.40	-	38.6	1	1957	Altair (Scout X-1)	Solid
Belier II	SDP	Belier	-	-	Polyvinyl	320.0 ?	-	20.00	-	23.8	1	-	Belier II	Solid
Vega	SDP	Belier	-	-	Polyurethane	320.0 ?	-	20.00	-	23.8	1	-	Belier III	Solid
Jericho II	ONERA	-	-	-	Solid DB	320.0 ?	-	20.00	-	23.8	1	1959 Jan	Daniel [2]	Solid
Jericho IV	SDP	Belier	-	-	Solid DB	317.0	460	20.00	235.0	23.4	1	1961	Centaure [2]	Solid
S-20	IAE	-	-	-	Solid	316.0	612	36.00	257.0	20.0	1	1966	Sonda 2	Solid
TU-716	THKU	Genie	Paiute	-	CTPB	308.0	520	186.00	-	3.7	1	1972	Paiute	Solid
Goose II	RPEW	-	-	-	Solid	306.0	370	22.00	-	17.0	1	1969	INTA 255	Solid
KM-D	NISST	KM	-	-	HTPB	304.0	629	17.40	294.0	38.0	1	1985	Mu 3S2 [4]	Solid
FW4S	UTC	-	-	-	Solid	301.0	766	26.00	284.1	31.5	1	1965	FW-4S	Solid
K250H	ISAS	-	-	-	UP Polyurethane	300.0	-	-	-	7.2	1	1958	Kappa 9M [2]	Solid
Star 20	THKE	Altair	TE-M-640-1	-	CTPB/AP/AlTP-H-3062	300.0	772	27.10	286.5	27.5	1	1970?	Scout G [4]	Solid
RX-250-LPN	LAPAN	-	-	-	HTPB	300.0	310	52.00	-	6.0	1	1987	RX-250-LPN	Solid
SM-3-II-3	MHI	-	-	-	Solid	300.0 ?	-	-	-	-	1	-	SM-3-II-2	Solid
TU-289	THKU	Genie	Genie	-	CTPB	300.0 ?	-	162.00	-	-	1	1967	Genie	Solid
Tianying 3C	SZRTC?	-	-	-	Solid	300.0 ?	-	-	-	-	1	2011	Tianying 3C	Solid
LAPAN	LAPAN	-	-	-	HTPB	300.0	310	52.00	-	6.0	1	1987	LAPAN (?)	Solid
LS-C Booster	STA	-	-	-	Solid	300.0 ?	-	-	-	-	1	1969	LS-C	Solid
PRD-18	ISKRM	-	-	-	Solid	300.0 ?	-	490.00	-	4.5	1	1957	V-750 booster	Solid
RH-300	VSSC	-	-	-	Solid	300.0 ?	-	33.30	-	16.0	1	-	RH-300	Solid
FFK	ERNO	-	-	-	Solid	300.0 ?	-	-	-	-	1	-	FFK	Solid
Aerojet Mk 8	AJ	-	-	-	Solid	300.0 ?	-	111.00	-	-	1	-	Bullpup	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
R-31BS	ARSL	-	-	-	Solid	300.0 ?	-	1.00	-	101.0	1	1976	R-31 BS	Solid
X-258	ABL	Altair	Altair II	-	Solid	300.0	623	24.20	279.1	31.0	1	-	Altair II	Solid
FW4	UTC	-	-	-	Solid	299.0	-	26.70	-	32.4	1	-	FW-4D	Solid
X-248	ABL	Altair	Altair I	-	Solid	296.0	561	14.00	-	40.0	1	1959	Altair	Solid
X-248A10	ABL	Altair	Altair I	-	Solid	296.0	516	13.00	-	39.0	1	1957	Altair (TB2 st3)	Solid
Gosling IIN	RORD	Gosling	-	-	Solid	292.0	400	130.00	-	3.5	1	1960	Jaguar 1 [1]	Solid
12KS10000	BAL	BB3	BB3B	-	Solid ANP2872JM-IV	292.0	552	43.70	236.2	12.0	1	1967	BB3B	Solid
SEPR-200	SEP	Tramontane	Tramontane	-	Solid	280.0	333	50.00 ?	-	6.7	1	1962	Berenice	Solid
MB-1	AJ	Genie	2KS-36250	-	Solid	273.0	100	161.00	-	2.0	1	1956	Genie	Solid
S-50000	CSXT	-	-	-	Solid	272.0	430	71.00	-	13.4	1	2004	CSXT	Solid
Star 26	THKE	Star 26	TE-M-442	-	CTPB/AP/Al	269.0	616	33.30	271.0	17.8	1	-	Strypi IV	Solid
9KS11000	BAL	BB3	-	-	Polyurethane DREV	265.0	440	49.00	220.0	9.0	1	-	BB3	Solid
Gosling 4	RORD	Gosling	-	-	Solid	263.0	426	137.00	-	4.5	1	1974	INTA 300 [1]	Solid
Star 26C	THKE	Star 26	TE-M-442-2	-	CTPB/AP/Al	262.0	622	35.00	272.1	16.8	1	1980?	DOT	Solid
Star 26B	THKE	Star 26	TE-M-442-1	-	CTPB/AP/Al	261.0	635	34.60	271.7	17.8	1	1974	Burner 2A [2]	Solid
X-258-B1	ABL	Altair	Altair II	-	Solid	260.0	620	27.50	278.1	24.0	1	-	Scout B [4]	Solid
2.5KS18000	AJ	Aerobee Booster	Aerobee JATO	-	Solid	260.0	200	80.00	-	2.5	1	1947 Sep 25	Aerobee [0]	Solid
AJ60-80	AJ	Aerobee Booster	Aerobee JATO	-	Solid	260.0	200	80.00	-	2.5	1	1947 Sep 25	Aerobee [0]	Solid
Hydac	LPC	-	LPC H-26	-	PBAA	256.0	412	41.60	253.0 ?	-	1	-	Hydac	Solid
Hydac H-28	LPC	-	H-28	-	PBAA	253.0	-	58.70	253.0	-	1	-	Hydac	Solid
TD1	KPA	-	-	-	Solid	252.0	-	18.30	250.0 ?	27.0	1	1997	TD1 [3]	Solid
DACRoc	DAC	-	-	-	Solid	250.0 ?	-	50.00 ?	220.0 ?	8.0 ?	1	1963	DACRoc	Solid
33KS2800	GRC	-	-	-	Solid	250.0 ?	347	12.50	-	33.0	1	1957	Vanguard [3]	Solid
Qased-S3	IRGC	-	-	-	Solid	250.0 ?	-	-	-	-	1	-	Qased [3]	Solid
M-100	UNK	-	-	-	Solid	250.0 ?	-	-	-	3.0	1	-	M-100	Solid
MG-18	LPC	-	-	-	Solid	248.0	591	-	-	-	1	1962	Scout X-2M [4]	Solid
Cuckoo 4	RPEW	-	-	-	Solid	243.0	452	44.00	204.0 ?	15.0	1	-	Skylark 12 [3]	Solid
Cuckoo IA	RPEW	-	-	-	Solid	243.0	320	90.00	204.0	4.3	1	-	Skylark	Solid
TE-M-380	THKE	LES Jettison	-	-	Solid	242.0	165	147.00	-	-	1	1965	Apollo LES Jettison	Solid
K250	ISAS	-	-	-	EP polyesther	240.0	-	34.00	-	9.3	1	1958	Kappa 6	Solid
K250-8	ISAS	-	-	-	EP polyesther	240.0	-	34.00	-	9.7	1	1958	Kappa 8	Solid
X-248A5	ABL	Altair	Altair I	-	Solid	240.0	516	12.50	255.0	38.0	1	1957	Altair/Scout X-1[4]	Solid
Cygnus 25	THKE	-	25" SM	-	Solid	239.0	-	33.30	-	16.5	1	-	25" SM	Solid
Star 24C	THKE	-	TE-M-604-4	-	CTPB/AP/Al	239.0	614	21.50	282.3	28.0	1	1978	Star 24 IUE	Solid
Cuckoo IB	RPEW	-	-	-	Solid RD2409	237.0	360	80.90	204.0	4.1	1	-	BK	Solid
X-248A3	ABL	Altair	Altair I	-	Solid	232.0	518	14.00	250.5	39.0 ?	1	1958	Thor Able [3]	Solid
Mayfly	WRE	-	-	-	Solid	230.0 ?	224	62.00	-	3.6	1	1957	Long Tom	Solid
Gosling	RORD	Gosling	-	-	Solid	230.0 ?	278	130.00	-	2.5	1	1960	Jaguar 1 [1]	Solid
Cuckoo II	RPEW	-	-	-	Solid RD2410	226.0	396	36.50	204.0	10.0	1	-	BK	Solid
Centenario	IIAE	-	-	-	Solid	224.0	-	39.00	-	11.2	1	2013	Centenario	Solid
XM-10	THKX	-	Lacrosse	-	Polysulfide	221.0	-	-	-	-	1	1958	Lacrosse	Solid
TX-52	THKX	-	Lacrosse	-	Polysulfide	221.0	-	-	-	-	1	1958	Doorknob	Solid
TE-416	THKE	Tomahawk	Tomahawk	-	PBAA	220.0	417	53.00	-	9.0	1	1965	Tomahawk	Solid
TE-406	THKE	Tomahawk	Tomahawk	-	PBAA	220.0	417	53.00	-	9.0	1	1965	Tomahawk	Solid
Star 24	THKE	-	TE-M-604	-	CTPB/AP/Al	218.0	561	18.50	282.9	29.6	1	1969	Star 24	Solid
S-210	ISAS	-	-	-	PB	210.0 ?	-	-	-	17.0	1	1969	S-210	Solid
XM-17	THKX	-	-	-	Solid	200.0 ?	-	-	-	-	1	1959	M5TV [2]	Solid
SpaceLoft	UPAE	-	-	-	Solid	200.0 ?	-	36.60	-	12.0	1	2006	SpaceLoft XL	Solid
Spyder-M1	UPAE	-	-	-	Solid	200.0 ?	-	36.60	-	12.0	1	2006	Spyder	Solid
Spyder-M2	UPAE	-	-	-	Solid	50.0 ?	-	36.60	-	12.0	1	2006	Spyder	Solid
Canopus	IIAE	-	-	-	Solid	200.0 ?	-	-	-	18.0	1	1972	Rigel	Solid
SS-50 Antares	IIAE	-	-	-	Solid	200.0 ?	-	-	-	18.0	1	1972	Tauro	Solid
RH-300 Booster	VSSC	-	-	-	Solid	200.0 ?	-	37.50	-	6.0	1	-	RH-300 booster	Solid
K220	ISAS	-	-	-	Solid	200.0 ?	-	-	-	-	1	1956	Kappa 2	Solid
S250	ISAS	-	-	-	Solid	200.0 ?	-	-	-	-	1	1969	SO-250	Solid
X-241	ABL	-	-	-	Solid	196.0	44	12.10	260.1	36.0	1	1958	Pilot [3]	Solid
Snipe	RORD?	-	-	-	Solid	190.0	261	16.30	-	16.0	1	1974	INTA 300 [2]	Solid
TU-715	THKU	Genie	Ute	-	CTPB	190.0	277	85.00	-	4.6	1	1971	Ute	Solid
S-23	IAE	-	-	-	Solid	182.0	-	18.00	-	-	1	1966	Sonda 2M	Solid
30AS1000	AJ	-	-	-	Solid GALCIT	174.0	133	4.40	184.0	30.0	1	1944	Private A	Solid
TE-29-1A	THKE	Recruit	Recruit 1A	-	Solid	170.0	269	173.00	225.0	2.2	1	-	Recruit	Solid
Recruit	THKE	Recruit	Recruit 1A	-	Solid	170.0	269	173.00	225.0	2.2	1	-	Squirt	Solid
Javelin 3	LPC	-	LPC J-33	-	PBAA/AP	165.0	-	93.00	239.0	-	1	1965	Javelin 3	Solid
Javelin 3 (old)	LPC	-	LPC J-3	-	PBAA/AP	165.0	273	47.60	239.0	-	1	1965	Javelin 3 [AWST]	Solid
HOTROC	NOTS	-	-	-	Solid	163.0	306	63.20	230.0	4.9	1	1958	HOTROC	Solid
Venus	SUD	Venus	-	-	Solid	160.0	190	44.00	205.0	4.3	1	1961	Centaure [1]	Solid
FG-47	HEXI	-	-	-	Solid	160.0	-	-	-	36.0	1	1997	Smart Dispenser	Solid
SVM-2	AJSP	-	-	-	Solid	159.0	400	14.00	285.0 ?	28.0 ?	1	1968	Intelsat 3	Solid
Javelin 2	LPC	-	LPC J-2	-	PBAA/AP	155.0	257	140.40	-	-	1	1965	Javelin 2 [AWST]	Solid
Javelin	LPC	-	LPC J-22	-	PBAA/AP	155.0	-	178.00	243.0	-	1	-	Javelin 2	Solid
1.5KS35000	THKE	Recruit	Recruit XM19	-	Solid	153.0	262	156.00	-	1.7	1	1956	Recruit	Solid
Yardbird	THKE	Recruit	TE-289	-	Solid	151.0	-	75.00	-	3.4	1	1959	Yardbird	Solid
SEPR 685-4	SEPR	-	Mimosa	-	Solid	150.0 ?	167	33.00 ?	-	5.0	1	1959	Antares [3]	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
MLRS	VOUA	-	-	-	Solid	150.0 ?	170 ?	53.00	-	3.2	1	-	MLRS	Solid
SO-250	ISAS	-	-	-	Solid	150.0 ?	-	-	-	-	1	-	SO-250	Solid
Kappa 4 Booster	ISAS	-	-	-	Solid	150.0 ?	-	105.00	-	3.0	1	-	Kappa 4 Booster	Solid
TT-200	NASDA	-	-	-	Solid	150.0 ?	-	-	-	-	1	-	TT-200	Solid
TT-210	NASDA	-	-	-	Solid	150.0 ?	-	-	-	-	1	-	TT-210	Solid
Upstage	MDAC	-	-	-	Solid	140.0 ?	-	-	-	1.0 ?	1	-	Upstage	Solid
Orion-2	IIAE	-	-	-	Solid	140.0	-	-	-	12.0	1	1966	Orion-2	Solid
Orion-1	IIAE	-	-	-	Solid	140.0	-	-	-	12.0	1	1966	Orion-1	Solid
RH-200SV	VSSC	-	-	-	Solid	140.0	-	16.90 ?	-	10.0	1	1970s	RH-200SV	Solid
Dorado	WRE	-	-	-	Solid	139.3	173	42.00	-	4.3	1	1973	Lorikeet	Solid
BE-3B1	HERC	BE-3	Alcyone	-	Solid	138.0	269	34.20	-	7.8	1	-	Alcyone	Solid
TE-307	THKE	Apache	-	-	Solid	135.0	167	21.10	-	6.0	1	1961	Apache	Solid
Star 17A	THKE	-	TE-M-521-5	-	CTPB/AP/Al	125.5	320	16.00	286.7	19.4	1	-	Star 17A	Solid
Vela	WRE	-	-	-	Solid	118.0	133	26.70	-	5.0	1	1964	Aero High [2]	Solid
Cygnus 20	THKE	-	20" SM	-	Solid	118.0	-	30.00	-	8.5	1	1959	20" SM	Solid
Kiva 5.5KS6100	RPI	-	-	-	Solid	107.0	149	27.00	-	5.5	1	-	Kiva	Solid
L480S	NISST	-	-	-	PB	102.0	-	7.80	254.0	31.5	1	1966	Lambda [4]	Solid
Arcon	ATLR	Arcon	-	-	Solid	100.0	140	4.50	-	33.0	1	1958	Arcon	Solid
TE-388	THKE	Iroquois	-	-	PBAA TPH-3117	100.0 ?	-	-	-	-	1	-	Iroquois	Solid
Traveler	USCLA	-	-	-	Solid?	100.0 ?	-	-	-	-	1	-	Traveler	Solid
Gradicom 2	CITED	-	-	-	Solid	100.0 ?	-	-	-	-	1	-	Gradicom 2	Solid
M-100 St2	UNK	-	-	-	Solid	100.0 ?	-	-	-	4.5	1	-	M-100 [2]	Solid
Kingfisher	TMINUS	-	-	-	Solid	100.0 ?	-	0.00	-	-	1	-	Kingfisher	Solid
2-AS-22000	AJ	Nike-46	-	-	Solid	100.0 ?	200	98.00	-	2.0	1	1946	Nike-46	Solid
2.5-AS-18000	AJ	Nike-47	-	-	Solid	100.0 ?	200	80.00	-	2.5	1	1946	Nike-47	Solid
K10S	ISAS	-	-	-	Solid	100.0 ?	-	-	-	-	1	-	K10S	Solid
Mk 136	THKE	-	-	-	Solid	100.0 ?	-	7.00	-	15.0	1	-	ASAS XL	Solid
NAL-25	STA	-	-	-	Solid	100.0 ?	-	-	-	-	1	1965	S-A	Solid
Demon	WRE	-	-	-	Solid	100.0 ?	104	45.20	-	2.3	1	1962?	HAT	Solid
BE-3	HERC	BE-3	Alcyone	-	Solid	100.0 ?	-	34.00	-	8.0	1	-	Alcyone	Solid
BE-3A4	HERC	BE-3	-	-	Solid	100.0 ?	-	34.00	-	8.0	1	-	Athena motor	Solid
BE-3A5	HERC	BE-3	-	-	Solid	100.0 ?	-	34.00	-	8.0	1	-	SPARTA motor	Solid
BE-3A9	HERC	BE-3	Alcyone	-	Solid	98.0	235	27.70	275.2	8.5	1	1969	Scout E [5]	Solid
Lapwing	BAJUK	-	-	-	Solid	97.5	-	-	237.0	30.0	1	1967	Petrel	Solid
K160	ISAS	-	-	-	EP polyesther	94.0	-	-	-	5.3	1	1958	Kappa 8L [2]	Solid
5.6KS5400	GCR	-	Viper IC	-	Solid	91.0	134	24.00	209.0	5.6	1	1950s	Viper I	Solid
3.8KS8040	GCR	-	Viper II	-	Solid	90.0	135	35.80	207.0	3.8	1	1959	Viper II	Solid
S-160	ISAS	-	-	-	UP Polyurethane	90.0 ?	-	-	-	-	1	1964	S-160	Solid
Shockwave	USCLA	-	GEM8-R4000	-	Solid APCP	90.0	229	19.00	258.0	16.3	1	-	Aftershock	Solid
RM-1400	COOP	Asp	-	-	Solid AP/Al E-107M	90.0	158	12.70	235.0	12.0	1	1960	Asp IV	Solid
K150	ISAS	-	-	-	EP polyesther	86.0	-	-	-	15.8	1	1958	Kappa 6	Solid
3.52KS8500 SDCO	SDCO	-	Viper IIB	-	Solid	89.0	144	35.80	-	3.2	1	1968	Viper	Solid
3.52KS8500	GCR	Viper	-	-	Solid	87.0	142	37.80	-	3.5	1	1960s	Viper	Solid
Asp II	COOP	Asp	-	-	Solid JPL-131	87.0	141	38.60	212.0 s	3.6	1	1959	Asp II	Solid
RM-1100	COOP/GCR	Asp	-	-	Solid JPL-132A	85.0	141	26.60	215.0 s	5.3	1	1959	Asp	Solid
Astrobee D	AJSP	Astrobee	-	-	HTPB	85.0	156	8.90	-	17.0	1	1970	Astrobee D	Solid
Agnes	CFTHB	-	Elan	-	Polyvinyl	82.0	100	40.00 ?	242.0	2.5	1	1967	Belenos [1]	Solid
Emilie	CFTHB	-	Elan	-	Polyvinyl	82.0	100	40.00 ?	242.0	2.5	1	1967	Grannos [1]	Solid
Asp III	COOP	Asp	-	-	Solid JPL-131	81.0	139	42.70	226.0 s	3.3	1	1959	Asp III	Solid
Melanie	ONERA	-	OPd 220	-	Solid	80.0 ?	49	38.00 ?	-	4.4	1	1959 Jan	Daniel [3]	Solid
MMR-06	GMS?	-	-	-	Solid	80.0 ?	-	-	-	9.0	1	-	MMR-06	Solid
10KS2500	THKE	-	-	-	Solid	80.0 ?	111	11.00	-	10.0	1	1957	Polaris FTV	Solid
Star 17	THKE	-	TE-M-479	-	CTPB/AP/Al	79.0	198	11.00	286.0	17.6	1	-	Star 17	Solid
SS-520 S3	ISAS	-	-	-	Solid	78.0	-	-	-	-	1	-	SS-520 St 3	Solid
Cajun	THKE	Deacon	-	-	Solid	75.0	108	43.00	-	3.0	1	1957	Cajun	Solid
X-209	ABL	JATO	-	-	Solid	71.8	-	4.40	-	14.0	1	?	M8 JATO (1980s)	Solid
Mk 39	RDYNE	-	-	-	Solid	70.0 ?	-	35.00 ?	-	2.0 ?	1	1965	Shrike	Solid
1.8KS7800	AJ	Sparrow	-	-	Solid	70.0 ?	63 ?	35.00	-	1.8	1	-	Sparrow	Solid
NAL-16	NAL	-	-	-	Solid	70.0	-	10.70	-	14.0	1	1965	NAL-16	Solid
S-B	STA	-	-	-	Solid	70.0	-	-	-	-	1	1965	S-B	Solid
S-C	STA	-	-	-	Solid	70.0 ?	-	-	-	-	1	1965	S-C	Solid
SA-II	STA	-	-	-	Solid	70.0 ?	-	-	-	-	1	1965	SA-II	Solid
SS-30	AVIB	-	-	-	Solid	60.0 ?	-	-	-	-	1	-	FTB	Solid
FTI	AVIB	-	-	-	Solid	60.0 ?	-	-	-	-	1	-	FTB	Solid
Proson 1	CITEF	-	-	-	Solid	60.0 ?	-	-	-	-	1	-	Proson	Solid
Kisha I 4.4KS4800	RPI	-	-	-	Solid	66.0	95	21.00	-	4.4	1	-	Kisha	Solid
Cygnus 15	LARC	-	TX-456-2?	-	Solid	60.0	-	22.30	-	4.8	1	-	TB2 [4]	Solid
RH-200	VSSC	-	-	-	Solid	60.0 ?	96	16.90	-	5.7	1	1970s	RH-200	Solid
MT-135	ISAS	-	-	-	Solid	68.0	-	8.10	230.0	10.5	1	1964	MT-135	Solid
X-220	ABL	Deacon	-	-	Solid	68.0	79	26.00	-	3.0	1	1953	Deacon	Solid
Sirocco	GCR	LPC S-10	-	-	PBAA	65.0	111	14.80	-	-	1	1960s	Sirocco	Solid
Mk 128 JATO	UNK	JATO	-	-	Solid	64.4	-	4.40 ?	-	15.0 ?	1	?	JATO C-130	Solid
15-KS-1000	AJP	JATO	-	-	Solid	63.0	-	4.40	-	15.0	1	1945?	JATO Mk 6	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
HVAR	NOTS/CIT	-	-	-	Solid	63.0	-	25.00	-	0.9	1	1944	HVAR	Solid
T-40	THKE	-	-	-	Polysulfide	62.0	89	13.30	-	6.0	1	1949	TB1 [4]	Solid
DM-16	ABL	Deacon	-	-	Solid	60.0 ?	33	30.00	210.0 s	2.1	1	1956	Rockaire	Solid
22.6KS1245	NMC	Sparrow	-	-	E107M	60.0	124 ?	5.50	-	22.6	1	1965	Sparoair III [2]	Solid
Viper V	OSCC	Viper	-	-	Solid	60.0 ?	142	27.00 ?	-	5.3	1	1972	Viper	Solid
KM-H	NISST	KM	-	-	Solid	59.0	-	-	281.0	-	1	1977	Mu 3H [4]	Solid
Aurore	SNECMA	-	-	-	Solid	54.0	58	-	250.0	5.3	1	-	Belenos [2]	Solid
Mk 22 Mod 2	UNK	-	-	-	Solid DB N-4	52.0	30	-	-	2.1	1	-	M58A1 munition	Solid
LAPSTAR	WRE	-	-	-	Solid	52.0	37	13.70	-	2.7	1	1957	Aeolus [0]	Solid
ZN-1	NUDTC	-	-	-	Solid	50.0 ?	-	-	-	-	1	1970?	ZN-1	Solid
ILR-33 Booster	PAI	-	-	-	Solid	50.0 ?	-	6.00	-	2.5	1	2015	ILR-33	Solid
SEPR P163	SEPR	-	-	-	Solid	50.0	-	-	-	35.0	1	1963	Emma [1]	Solid
12-AS-1000	AJP	F-80 JATO	-	-	Solid	50.0 ?	-	4.40	-	12.0	1	1945?	JATO	Solid
14-NS-1000	AJP	JATO	-	-	Solid	50.0 ?	-	4.40	-	14.0	1	1945?	JATO	Solid
14-AS-1000	AJP	JATO	-	-	Solid	50.0 ?	-	4.40	-	14.0	1	1945?	JATO Mk 2?	Solid
NOTS 100A	NOTS	-	-	-	Solid	50.0 ?	-	40.00	-	20.0	1	1960	BSJr [4]	Solid
Cirrus I	DRG	-	-	-	Solid	50.0 ?	50 ?	5.00	-	10.0 ?	1	-	Cirrus	Solid
Cirrus II	DRG	-	-	-	Solid	50.0 ?	90 ?	18.00	-	5.0 ?	1	-	Cirrus	Solid
Star 13B	THKE	-	TE-M-763	-	CTPB/AP/Al	47.0	116	7.60	285.7	14.8	1	-	Star 13B	Solid
Kappa 4	ISAS	-	-	-	Solid	45.0 ?	-	10.00	-	3.0	1	1956	Kappa 4	Solid
Kappa 1	ISAS	-	-	-	Solid	45.0	-	10.00	-	3.0	1	1956	Kappa 1	Solid
Mk 36	HERC/THK/ATLR	AIM-9D Sidewinder	-	-	HTPB	45.0	-	-	-	-	1	-	Sidewinder	Solid
Mk 17	THKE?	AIM-9B Sidewinder	-	-	Solid	45.0	-	17.70	-	2.1	1	-	Sidewinder	Solid
Mk 15	THKE/NOTS	Sidewinder	-	-	Solid	45.0	-	17.70	-	2.1	1	-	Sidewinder	Solid
Mk 50 Mod 0	THKE?	Sidewinder 1D	-	-	Solid	43.8	63	12.20	230.0	4.7	1	1965	Sidew.(Chaparral)	Solid
SR.116	ABL/AJSP	AIM-9P Sidewinder	-	-	Solid	45.0	-	17.70	-	2.1	1	-	Sidewinder	Solid
9KS1660	BAL	BB	-	-	PB	43.0	66	7.40	240.0	9.0	1	1969	BB6	Solid
Lupus 3	WRE	-	-	-	Solid	41.0	61	11.50	-	5.3	1	1974	Kookaburra [1]	Solid
Sword 3KS5000	LPC	-	-	-	Solid	42.0	60	16.00	-	3.8	1	-	Cleansweep III	Solid
Star 13F	THKE	-	TE-M-444	-	Solid	40.1	94	6.30 ?	240.0	15.0 ?	1	-	Star 13F	Solid
Hopi 9.0KS1800	RPI	-	-	-	Solid	40.0	72	7.70	-	9.0	1	-	Hopi IV	Solid
Excalibur	BAL	-	-	-	Solid	39.2	61	20.00	-	2.5	1	2000	Excalibur	Solid
MARC 60A	ATLR	Arcas	-	-	Solid	38.0	60	1.60	-	32.6	1	1960	Super Arcas	Solid
RTV	JPL	RTV Motor	-	-	JPL 136	37.0	51	8.50	230.0	5.4	1	1956 Sep 20	Juno I [4]	Solid
Star 13A	THKE	-	TE-M-516	-	CTPB/AP/Al	38.0	94	5.90	286.5	15.3	1	-	Star 13A	Solid
Star 13C	THKE	-	TE-M-345	-	Solid	38.0	81	5.00 ?	218.0	15.0 ?	1	-	Star 13C	Solid
Bantam	BAJUK	-	-	-	Solid	37.0	-	1.80	237.0	30.0	1	1962	Skua	Solid
Bantam 2	BAJUK	-	-	-	Solid	37.0	-	1.80	237.0	30.0	1	-	Skua 2	Solid
Bantam 3	BAJUK	-	-	-	Solid	33.0	-	1.70	237.0	34.0	1	-	Skua 3	Solid
Star 13	THKE	-	TE-M-458	-	Solid	36.0	84	4.10	273.0	21.0	1	-	Star 13	Solid
S-A	STA	-	-	-	Solid	36.0	29	2.50	164.0	12.0	1	1965	S-A	Solid
Lupus 2D	WRE	-	-	-	Solid	35.7 ?	48	11.50	-	4.0	1	1972	Kookaburra	Solid
Lupus 2	WRE	-	-	-	Solid	35.7	46	11.50	-	4.0	1	1972	Kookaburra [1]	Solid
Star 13D	THKE	-	TE-M-375	-	Solid	35.3	76	5.00 ?	223.0	15.0 ?	1	-	Star 13D	Solid
P-Vrbec	VRBEC	-	-	-	Solid	35.0 ?	0	-	-	-	1	2022	VB booster	Solid
Icarus	ERAU	-	-	-	AP/Al	35.0	-	15.80	239.9	6.4	1	2007	Icarus [1]	Solid
MARC 2B1	ATLR	Arcas	-	-	Solid	34.4	43	1.50	-	29.0	1	1960	Arcas	Solid
Hopi 3.0KS4000	RPI	-	-	-	Solid	33.0	53	18.00	-	3.0	1	-	Hopi	Solid
Hopi 2.4KS5600	RPI	-	-	-	Solid	34.0	58	24.90	227.0	2.4	1	-	Hopi III	Solid
Lupus 1A	WRE	-	-	-	Solid	33.6	38	9.50	-	5.2	1	1969	Kookaburra [1]	Solid
Star 12A	THKE	-	TE-M-236-3	-	Polyurethane/AP/Al	33.5	61	7.30	270.0	7.5	1	1971	Super SARV Retro	Solid
Urbion	INTA	-	-	-	Solid	33.0	-	1.50	-	34.0	1	1984	INTA-100 [2]	Solid
Meteor-1	PIHM	-	-	-	Solid	32.5	31	14.00	-	2.3	1	1963	Meteor-1 [2]	Solid
MARC 42A1	ATLR	-	Arcas Boost	-	Solid	30.8	-	12.20	-	3.0	1	1960s	Boosted Arcas 2 [0]	Solid
Star 13E	THKE	-	TE-M-385	-	Solid	30.5	63	4.20 ?	211.0	15.0 ?	1	-	Star 13E	Solid
Cherokee	THKE	-	TE-146	-	Solid	30.0 ?	-	-	-	1.5	1	1963	Squirt [2]	Solid
RH-125	VSSC	-	-	-	Solid	30.0 ?	30	10.50	-	2.9	1	1970s	RH-125	Solid
RH-125S	VSSC	-	-	-	Solid	30.0 ?	30	10.50	-	2.9	1	1970s	RH-125S	Solid
NOTS 124-C	NOTS	-	-	-	Solid	30.0 ?	-	-	-	-	1	1955	X-17 HTV [3]	Solid
HPAG	NOTS	-	-	-	Solid	30.0	-	12.60	-	2.7	1	1950	-	Solid
Proson 2	CITEF	-	-	-	Solid	30.0 ?	-	-	-	-	1	-	Proson	Solid
TME DART	TMINUS	-	-	-	Solid	30.0	59	24.70	-	2.2	1	2020	DART	Solid
Viper IIIA	SDCO	Viper	-	-	Solid	30.0	59	24.70	-	2.2	1	1972	Viper	Solid
DIM	IIAE	-	-	-	Solid	30.0 ?	-	-	-	-	1	-	DIM	Solid
T-55	THKE	-	-	-	Solid	28.0	-	21.40	-	1.3	1	1956	Terrapin	Solid
INTA S-12	INTA	-	-	-	Solid	28.0	-	16.70	-	1.2	1	1984	INTA-100 [1]	Solid
Star 12	THKE	-	TE-M-236	-	Polyurethane/AP/Al	27.8	46	5.60	252.0	7.5	1	1960	SRV Mk IV Retro	Solid
Sonda 1 Booster	IAE	-	-	-	Solid	27.5	-	27.00	-	-	1	1965	Sonda 1	Solid
Sonda 1	IAE	-	-	-	Solid	27.3	-	4.20	-	-	1	1965	Sonda 1	Solid
Stable Super Loki	SDC	-	-	-	PS/AP	27.0	44	21.20	228.7	2.1	1	1973	Stable Super Loki	Solid
Belisama	CFTHB	-	-	-	Solid	26.0	24	24.00 ?	-	0.9	1	1968	Belisama [2]	Solid
MARC 2C2	ATLR	Arcas	-	-	Solid	26.0	-	1.40	-	29.0	1	-	HV Arcas	Solid
Lobster	RORD	-	-	-	Solid	26.0	58	29.00	-	2.0	1	-	Jaguar 1 [2]	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RM-3141	COOP/JPL	Scale Sergeant	-	-	Solid	25.0	48	7.60	222.0	6.3	1	1959	Ascamp [2]	Solid
Super Loki	SDC	-	-	-	PS/AP	23.0	38	17.80	232.0	2.1	1	1968	Super Loki	Solid
SEPR P167	SEP	-	-	-	Solid	23.0 ?	-	34.00	-	-	1	-	Berenice strapon	Solid
MCR-3	VSSC	-	-	-	Solid	20.0 ?	-	-	-	-	1	1970s	MCR-3/RH-125	Solid
Mk 117 JATO	UNK	JATO	-	-	Solid	22.7	-	11.20	-	1.5	1	?	JATO BQM74 5"	Solid
NAL-7	STA	-	-	-	Solid	20.0 ?	-	-	-	-	1	1965	NAL-7	Solid
Falcon	THKX	-	M-58	-	PS/AP	20.0	-	20.00	150.0	1.4	1	1950	Falcon	Solid
Melusine	ATEF	-	-	-	Plastolite	20.0 ?	-	-	-	-	1	-	Grannos	Solid
MARC 42A2	ATLR	-	Arcas Boost	-	Solid	20.0 ?	-	-	-	-	1	1960s	Boosted Arcas [0]	Solid
SEPR P191	SEPR	-	-	-	Solid	20.0	15	14.80	-	1.0	1	-	Emma [0]	Solid
SkyMicro1	SKYR	-	-	-	Solid	20.0 ?	-	1.60	172.0	-	1	2020	Skylark Micro	Solid
MERA	KBPT	-	-	-	Solid	20.0	40 ?	20.00 ?	-	2.0 ?	1	1992	MERA	Solid
Star 10	THKE	-	TE-M-195	-	PB/AP/Al TP-G-3012	17.0	30	33.50	251.0	9.0	1	1959	SRV Retro Mk I	Solid
BB7	BAL	-	-	-	Solid	16.0	-	-	-	-	1	1969	BB 7	Solid
MARC 14A1	ATLR	-	-	-	Solid	16.0	-	12.00	-	0.8	1	-	Arcas booster	Solid
O5280X-PS DMS	AEROTC	-	-	-	Solid	15.0	23	6.50	-	4.3	1	2018	SPEAR-HRT	Solid
O4500	MESOS	-	-	-	Solid	15.0 ?	0	4.50	-	-	1	2022	MESOS booster	Solid
Meraki O7800	NZRA	-	-	-	Solid	15.0 ?	-	7.80	-	-	1	2024	Meraki booster	Solid
M830	MESOS	-	-	-	Solid	15.0 ?	0	0.83	-	-	1	2022	MESOS sustainer	Solid
O-Vrbec	VRBEC	-	-	-	Solid	15.0 ?	0	-	-	-	1	2022	VB sustainer	Solid
Cygnus 10	PARD	-	10" SM	-	Solid	15.0	-	10.00	-	3.2	1	-	10" SM	Solid
TX8-6	THKX	-	-	-	Solid	15.0	25	3.60	233.0	7.0 ?	1	1958	Able I motor	Solid
NOTS 8	NOTS	-	-	-	Solid	14.9	29	5.10	245.0	5.7	1	1958	Pilot [4]	Solid
DMU 3000	THKE	-	CORONA DMU	-	Solid	13.4	-	-	-	-	1	-	CORONA	Solid
MARC 14B1	ATLR	-	.8KS18800	-	Solid	13.4	10	12.00	-	0.8	1	1960	Iris booster x 7	Solid
Mk7	UNK	-	3.25"	-	Solid	13.1	9	9.80	-	0.9	1	1948	-	Solid
Icarus St2	ERAU	-	-	-	AP/Al	13.0	-	4.10	241.5	7.0	1	2007	Icarus [2]	Solid
Arcon booster	ARC?	-	-	-	Solid	12.4	5	14.00	-	0.4	1	1958	Arcon	Solid
M3A2 JATO	UNK	JATO	-	-	Solid DB T6	12.3	-	-	-	-	1	1980?	M3A2 5" JATO (HVAR?)	Solid
T-41	THKX	Falcon	M-46	-	Polysulfide	12.0	-	-	-	-	1	1949	Falcon	Solid
Arrow II	GCR	-	-	-	Solid	12.0	17	9.00	-	1.9	1	1950s	Arrow	Solid
Judi-III 1.9KS2100	RPI	-	1.9-KS-2100	-	Solid	12.0	-	9.30	-	1.9	1	1961	Judi III	Solid
SR71-AD-1	SDCO	-	-	-	Solid	11.0	18	9.00	231.0	2.0	1	1968	Loki Dart PWN-8B	Solid
Loki II	GCR	Loki	-	-	Solid	11.0	17	9.00	223.0	2.0	1	1965?	Loki II Dart	Solid
Judi-I 1.9KS2150	RPI	-	1.9-KS-2150	-	Solid	10.0	18	9.60	224.0	1.9	1	1961	Judi III	Solid
Musca	WRE	-	-	-	Solid	10.0 ?	19	5.10 ?	-	3.7	1	1965	Musca	Solid
HAEC FFAR	UNK	FFAR	-	-	Solid	10.0 ?	11	4.00 ?	-	2.8	1	1961	HAEC [2]	Solid
SkyMicro2	SKYR	-	-	-	Solid	10.0 ?	-	0.80	181.0	-	1	2020	Skylark Micro	Solid
RH-75	VSSC	-	-	-	Solid	10.0 ?	-	-	-	-	1	1967	-	Solid
Theodore	ATEF	-	-	-	Epictete	10.0	18	1.80	-	10.0	1	-	Monica	Solid
Mk 125 JATO	UNK	JATO	-	-	Solid	9.2	-	-	-	-	1	?	JATO Pioneer UAV	Solid
DMU 2000	THKE	-	CORONA DMU	-	Solid	8.9	-	-	-	-	1	-	CORONA	Solid
FFAR	USN/CIT	FFAR	-	-	Solid	9.0	5 ?	3.60	-	1.5	1	1955	Rockair	Solid
Pro75-6GXL	CESARO	-	-	-	Solid	8.0 ?	10	2.30	-	4.3	1	-	SPEAR-HRT	Solid
Loki	JPL/GCR	Loki	-	-	Solid	8.0	10	15.00	213.0 s	0.8	1	1956	Loki Dart	Solid
Seagull	UNK	-	-	-	Solid?	8.0 ?	-	10.00 ?	-	2.0 ?	1	1963	Seagull	Solid
Chick	RPEW	-	-	-	Solid	8.0	4	20.00	-	0.2	1	-	Chick	Solid
Luzou	SEP	-	-	-	Solid	7.0	-	3.00	-	1.7	1	1975	Eridan-ARAKS	Solid
Mk 66 FFAR	UNK	-	-	-	Solid	6.5	7	5.80	-	1.0	1	-	2.75-inch WrapAround	Solid
MARC 21A1	ATLR	-	17.5-KS-130	-	Solid Arcite	6.3	8	0.60	-	17.5	1	-	Metroc	Solid
Meraki N3100	NZRA	-	-	-	Solid	5.0 ?	-	3.10	-	-	1	2024	Meraki sustainer	Solid
T-22	JPL	-	-	-	Solid	5.0 ?	-	24.00	206.0	0.2	1	1944	Private A Booster	Solid
Oreste	ATEF	-	-	-	Epictete	5.0 ?	7	0.90	-	8.0	1	-	Monica	Solid
Mk 40 LSFFAR	UNK	-	-	-	Solid	5.0	5	3.20	-	1.6	1	1980?	2.75-inch FFAR	Solid
KM-L	NISST	KM-L	-	-	HTPB	4.0	-	-	-	-	1	1990	Hagoromo	Solid
LaRC Plastic	LARC	-	-	-	Solid T13E1	2.5	2	0.40	100.0	3.0	1	1958	Hi Ball	Solid
Cygnus 5	LARC	-	-	-	Solid	2.5	-	2.30	236.0	1.6	1	-	TB2 [6]	Solid
PSSC	AERO	-	-	-	Solid	2.0 ?	40	-	-	-	4	2011	PSSC	Solid
1KS420	ATLR	-	-	-	Solid	2.0 ?	2	22.00	-	1.0	1	1959	Explorer 6	Solid
JPL 2 lb Kick Motor	JPL	-	-	-	JPL 136	1.5	-	-	246.0	-	1	1958 Oct 23	Deal III	Solid
D-SAT-EES	DORBIT	-	-	-	Solid	0.9	-	0.45	266.4	3.2	1	-	D-SAT	Solid
NOTS 3SM	NOTS	-	-	-	Solid	0.6	1	0.70	245.0	1.0	1	1958	Pilot [5]	Solid
CRAPEL	ONERA	-	-	-	Solid	-	52	-	-	10.5	1	1969	CRAPEL/Belier	Solid
RS-B-535	RDYNE	-	-	-	Solid	-	-	-	-	-	1	1972	BLDT	Solid
Buran TDEO	UNK	-	-	-	Solid	-	35	28.00	-	-	1	1988 Nov 15	Buran (x4)	Solid
M15A1 JATO	PHILR	T60 JATO	16-NS-1000	-	Solid	-	-	4.40	-	16.0	1	1953	M16A1 JATO	Solid
M34 ZEL JATO	RDYNM	JATO	4-XX-130000	-	Solid	-	-	578.00	-	4.0	1	1955?	Aircraft JATO	Solid
8-AS-1000	AJP	JATO	8-AS-1000	-	Solid	-	-	4.40	-	8.0	1	1945?	KAN-1 Litte Joe	Solid
Cedre St1	LRS	-	-	-	Solid	-	-	138.00	-	-	1	1962	Cedre 3	Solid
Cedre St2	LRS	-	-	-	Solid	-	-	78.00	-	-	1	1962	Cedre 3	Solid
Cedre St3	LRS	-	-	-	Solid	-	-	20.00	-	-	1	1962	Cedre 3	Solid
Cedre-4 St1	LRS	-	-	-	Solid	-	-	138.00	-	-	1	1962	Cedre 4	Solid

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
Hybrid propellant engines														
SORS	DVST	-	-	LOX?	Solid	-	-	-	-	-	1	2021	SORS	Hybrid
HALO	HAL5	-	-	N2O	HTPB	20.0	-	1.90	240.0	-	1	1997	HALO	Hybrid
Rhumi	SZI	-	-	N2O	Solid	-	180	2.50	-	0.0	1	2024	Rhumi	Hybrid
ILR-33	PAI	-	-	H2O2	Solid	-	-	4.00	-	40.0	1	2015	Bursztyn	Hybrid
Hyperion	EAC	-	-	N2O	HTPB	47.0	93	6.00	-	15.0	1	1996	eAc	Hybrid
Atea-1	RLABN	-	-	N2O	Solid	-	100	6.90	-	14.5	1	2009	Atea-1	Hybrid
DHX-200 Aurora	DARE	-	-	N2O	Sorbitol/Paraf/Al	85.0	190	8.00	-	23.0	1	2015	Stratos II+	Hybrid
Lelien 1A	TISPACE	-	-	N2O	SBR	-	1339	9.80	-	-	1	2019	Hapith V [3]	Hybrid
MT 27	SNECMA	-	-	NA/N2O4	Solid	75.0	200 ?	10.00	200.0	20.0	1	1964	Lex	Hybrid
HyLIGHT	HYEND	-	-	N2O	HTPB	120.0 ?	267	10.00	224.0	-	1	2023	N2ORTH	Hybrid
Lelien 1B	TISPACE	-	-	N2O	SBR	-	1028	19.60	-	-	1	2019	Hapith V [2]	Hybrid
HTR	NAMMO	-	-	LOX	Solid	-	520 ?	26.00	202.0	20.0	1	2007	HTR	Hybrid
FWUM	NAMMO	-	-	H2O2	HTPB	-	-	30.00	-	35.0	1	2018	Nucleus	Hybrid
HyPLOX75	HYIMP	-	-	LOX	Paraffin	-	-	75.00	321.0	72.0	1	2023	SR75	Hybrid
RM-1	SCAL/SPDEV	-	-	N2O	HTPB	-	7200 ?	90.00 ?	-	80.0	1	2003	SS1	Hybrid
Sirius	GILM	-	-	H2O2	Polyethylene	-	-	110.00	-	100.0	1	2024	Eris[1]	Hybrid
Lelien 1C	TISPACE	-	-	N2O?	HTPB	-	-	127.00	-	-	1	2019	Hapith V	Hybrid
HyPER-15	INNOSP	-	-	LOX	Paraffin	-	0	0.00	-	-	1	2022	Hanbit-TLV	Hybrid
Dolphin	STST	-	-	LOX	PB	7500.0	-	155.00	-	-	1	1984	Dolphin	Hybrid
HYSR	LMMI	-	-	LOX	HTPB	-	8000 ?	270.00	290.0	33.4	1	2003	HYSR	Hybrid
RM-2 (1)	SIENV	-	-	N2O	HTPB	-	16000 ?	270.00	-	60.0 ?	1	2007	SS2	Hybrid
RM-2	SCAL/SPDEV	-	-	N2O	Polyamide	-	16000 ?	310.00	250.0	60.0 ?	1	2007	SS2	Hybrid
H500	AMROC	-	-	LOX	PB	0.0	23000 ?	333.00	295.2	70.0	1	1989 Oct 5	AMROC	Hybrid
N2 cold gas														
DS	MITT	Start DS	-	-	N2	-	-	0.00	-	210.0	1	-	Start DS	N2
Liquid propellant engines: Nitric acid/Aniline or alcohol														
P4-1 Sustainer	NAA	-	-	IRFNA	Hydyne	-	-	0.50	262.0	-	1	-	-	NA/AA
T-7 LRE	SIMED	-	-	NA	Aniline	1000.0	-	2.00	-	-	1	1960	T-7	NA/AA
P4-1 Booster	NAA	-	-	IRFNA	Hydyne	-	-	2.40	232.0	-	1	-	-	NA/AA
LR2-RM-6	RMI	-	-	RFNA	Aniline	-	-	2.80	195.0	260.0	1	1945	Lark	NA/AA
LPR-006	ISRO	-	-	RFNA	Aniline	-	-	6.00	-	-	1	-	LPR-006	NA/AA
WAC	AJGC	WAC	-	RFNA	Aniline/Alcohol	313.0	300	6.70	-	47.0	1	1945	WAC	NA/AA
X21AL-2600	AJGC	Nike	-	RFNA	Aniline/Alcohol	-	-	11.40	-	21.0	1	1947	Nike 46 Ajax [2]	NA/AA
21AL-2600	AJGC	Nike	-	RFNA	Aniline/Alcohol	-	-	11.40	-	21.0	1	1947	Nike 47 Ajax [2]	NA/AA
Ajax-490	AJGC	Nike	-	RFNA	Aniline/Alcohol	-	-	11.40 ?	-	21.0	1	1949	Nike Ajax	NA/AA
NATIV	NAA	-	-	NA	Aniline	-	-	11.60	-	-	1	1947	NATIV	NA/AA
XASR-1	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	467.0	520	11.60	188.5	32.1	1	1948 Dec 9	Aerobee	NA/AA
AJ11-6	AJGC	Aerobee	AGVL-0113F	RFNA	Aniline/Alcohol	670.0	928	17.80	199.0	52.0	1	1959 Sep 11	Aerobee	NA/AA
AJ11-21	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	670.0	928	17.80	199.0	52.0	1	1959 Sep 11	Aerobee	NA/AA
AJ10-24	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	467.0	586	17.80	193.0	32.1	1	1950?	Aerobee	NA/AA
AJ10-25	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	467.0	586	17.80	193.0	32.1	1	1950?	Aerobee	NA/AA
AJ10-27	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	467.0	586	17.80	193.0	32.1	1	1950?	Aerobee	NA/AA
AJ10-34	AJGC	Aerobee	-	RFNA	Aniline/Alcohol	467.0	586	17.80	193.0	32.1	1	1950?	Aerobee	NA/AA
AJ60-92	AJGC	Aerobee 200	-	IRFMA	Aniline (ANFA)	576.0	1346	22.60	-	58.5	1	-	Aerobee 200	NA/AA
LPR-3T	ISRO	-	-	RFNA	Aniline	-	-	29.00	-	-	1	-	LPR-3T	NA/AA
TD-187	RMD	Bullpup A	-	IRFNA	MAF-1	92.0	-	53.00	-	-	1	1950?	Bullpup	NA/AA
TD-232	RMD	Bullpup B	-	IRFNA	MAF-1	255.0	-	53.00 ?	-	-	1	1950?	Bullpup	NA/AA
Wasserfall	HVP	-	-	NA	Vinyl Isobutyl ethe	-	-	78.00	-	40.0	1	1944	Wasserfall	NA/AA
Corporal E	JPL	-	-	RFNA	Aniline	-	-	89.00	-	-	1	1947	Corporal E	NA/AA
Corporal	AJGC	-	-	IRFNA	Aniline	-	-	89.00	-	63.0	1	-	Corporal	NA/AA
Liquid propellant engines: Nitric acid/Amine														
S2.721V	ISAEV	S2.721	-	NA	Amine	-	-	11.80	-	-	1	1956?	-	NA/Amine
P-15	ISAEV	S2.721	-	NA	Amine	-	-	11.90	-	-	1	-	-	NA/Amine
S5.4	ISAEV	S5.4	-	NA	Amine	-	-	15.80	266.0	-	1	-	-	NA/Amine
V-750V	ISAEV	V-750	-	NA	Amine	-	-	30.40	-	-	1	-	-	NA/Amine
S2.720	ISAEV	S2.720	-	NA	Amine	-	-	34.30	233.0 s	-	1	-	-	NA/Amine
S5.5	ISAEV	KTDU-5	-	NA AK-27I	Amine TG-02	-	-	44.00	287.0	-	1	-	Luna E-6	NA/Amine
KTDU-5A	ISAEV	KTDU-5	-	NA	Amine	-	-	45.50	287.0	-	1	-	Luna E-6	NA/Amine
S2.253	ISAEV	S2.253	-	NA	Amine TG-02	-	-	80.00	251.0	78.0	1	1953 Apr 18	R-11	NA/Amine
S09.29	ISAEV	S09.29	-	NA	Amine	-	-	88.00	-	-	1	-	-	NA/Amine
Prithvi	DRDO	-	-	RFNA	Xylidiene/Trieth.	-	-	100.00 ?	-	-	1	1988	Prithvi	NA/Amine
S2.726	ISAEV	S2.726	-	NA AK-20I	Amine TG-02	-	-	103.00	-	55.0	1	1958	V-1000	NA/Amine
S5.1	ISAEV	S5.1	-	NA	Amine	-	-	167.00	-	-	1	-	-	NA/Amine
S5.44	ISAEV	S5.44	-	NA	Amine	-	-	177.00	251.0 s	-	1	-	-	NA/Amine
S2.713	ISAEV	S2.713	-	NA AK-27I	Amine TG-02	-	-	252.00	-	-	1	-	R-13	NA/Amine

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
S5.3	ISAEV	S5.3	-	NA	Amine	-	-	392.00	-	-	1	-	R-21	NA/Amine
S5.38	ISAEV	S5.3	-	NA	Amine	-	-	392.00	-	-	1	-	R-21	NA/Amine
S5.3M	ISAEV	S5.3	-	NA	Amine	-	-	396.70	241.0 s	-	1	-	-	NA/Amine
S2.1150	ISAEV	S2.1150	-	NA AK-27I	Amine TG-02	-	-	671.20	250.0	-	1	1959	Burya	NA/Amine
Liquid propellant engines: Nitric acid/Kerosene														
AlKahir	EGAO	-	-	NA?	Kerosene?	-	-	0.00	-	-	1	1962	Al Kahir	NA/Kero
LE-1	STA	LS-A	-	WFNA	Kerosene	-	350	10.00	195.0	35.0	1	1963	LS-A	NA/Kero
Aerobee Jr	AJGC	-	-	RFNA	Kerosene JP-4	-	-	11.60	200.0	40.0	1	1958	Aerobee 100	NA/Kero
Ajax 1810	AJ	-	-	IRFNA	JPX (JP-4/UDMH)	-	-	11.60	-	30.0	1	-	Nike Hercules 1810	NA/Kero
Ajax	AJ	-	-	IRFNA	Kerosene JP-4	-	-	11.60	-	30.0	1	-	Nike Ajax [2]	NA/Kero
S2.711	ISAEV	-	-	RFNA	Kerosene	-	-	13.80	-	22.0	1	1957	V-750	NA/Kero
S2.711V	ISAEV	-	-	RFNA AK-20	Kerosene TG-02	-	-	30.40	-	25.0	1	1957	V-750	NA/Kero
Veronique N	LRBA	LRBA	-	NA	Kerosene	-	-	40.00	-	-	1	1952 May 20	Veronique N	NA/Kero
OTRAG	OTR	OTRAG	-	NA	Kerosene	-	-	58.70	250.0	126.0	1	1977	OTRAG	NA/Kero
S2.253A	ISAEV	S2.253	-	NA	Kerosene	-	-	93.00	251.0	78.0	1	1953 Apr 18	R-11FM	NA/Kero
S5.2	ISAEV	9D21	-	NA	Kerosene	-	-	131.20	258.0	-	-	-	R-17	NA/Kero
Abid	IQ	-	-	NA?	Kerosene	-	0	130.00 ?	-	-	1	-	Abid St 1	NA/Kero
LR59-AJ-13	AJGC	-	LR59-AG-13	IRFNA	Gasoline/UDMH	-	-	133.00	-	4.0	1	1957	Bomarc A	NA/Kero
TD-2	KPA	-	-	RFNA	Kerosene	-	-	250.00 ?	-	120.0	1	2006	TD-2	NA/Kero
RD-214 Early	EMASH	RD-214	-	NA	Kerosene	-	-	625.00	210.0	-	4	1957 Jun 22	R-12	NA/Kero
S2.1100	ISAEV	S2.253	-	NA AK-27I	Kerosene T-1	-	-	673.00 ?	-	-	4	1957 Aug 1	Burya	NA/Kero
RD-214	EMASH/PERM	RD-214	8D59	NA	Kerosene	-	-	730.00	264.0	-	4	1957 Jun 22	R-12	NA/Kero
Liquid propellant engines: Nitric acid/Turpentine														
Veronique	LRBA	LRBA	-	WFNA	Diesel oil	-	-	40.00	-	-	1	1952 May	Veronique	NA/Turps
Veronique AGI	LRBA	LRBA	-	WFNA	Turpentine	-	1900	40.00	-	49.0	1	1959 Mar 7	Veronique AGI	NA/Turps
Veronique 61	LRBA	LRBA	-	NA	Turpentine	-	-	60.00	-	-	1	1964 Jun 8	Veronique 61	NA/Turps
Vesta	LRBA	LRBA	-	NA	Turpentine	-	7900	140.00	-	56.4	1	1965 Oct 15	Vesta	NA/Turps
Vexin	LRBA	LRBA	-	NA	Turpentine	-	25500	274.00	-	93.0	1	1964 Jun 15	Emeraude	NA/Turps
Liquid propellant engines: Nitric acid/UDMH														
Unha St3	KPA	Nodong	-	NA	UDMH	-	-	-	-	-	1	-	-	NA/UDMH
KDU-414	ISAEV	11D414	-	NA AK-20	UDMH	-	80	2.00	290.0	-	1	1964	Molniya-1	NA/UDMH
11D429	ISAEV	-	-	NA AK-20	UDMH	-	80	2.00	290.0	-	1	1974	Molniya-1 mod	NA/UDMH
KTDU-53	ISAEV	KTDU-35	-	NA	UDMH	-	-	4.10	280.0	-	1	-	-	NA/UDMH
KTDU-35	ISAEV	KTDU-35	-	NA	UDMH	-	-	4.10	280.0	-	1	-	-	NA/UDMH
KTDU-66	ISAEV	KTDU-35	-	NA	UDMH	-	-	4.10	280.0	-	1	-	-	NA/UDMH
LE-2	STA	-	-	WFNA	UDMH	-	-	9.80	195.0	25.0	1	-	LS-C	NA/UDMH
LRE-4	IR	-	-	NA?	UDMH?	-	-	17.70	-	-	1	2015	Simorgh [2]	NA/UDMH
KTDU-417 (NA)	ISAEV	KTDU-417	-	NA	UDMH	-	-	18.90	314.0	-	1	-	-	NA/UDMH
P8E-9	RDYNE	Lance Sustainer	Dual Thrust	IRFNA	UDMH	-	-	20.00	227.0	114.0	1	1964	Lance Sustainer	NA/UDMH
RD-851	YUZH	RD-851	-	NA	UDMH	-	-	32.50	279.0	-	1	-	-	NA/UDMH
AJ10	AJGC	AJ10	-	WFNA	UDMH	-	-	33.00	-	122.0	1	-	Vanguard [2]	NA/UDMH
AJ10-11B	AJGC	AJ10	-	WFNA	UDMH	-	-	33.00	-	122.0	1	-	-	NA/UDMH
AJ10-118	AJGC	AJ10	-	NA	UDMH	-	-	33.70	271.0	-	1	-	-	NA/UDMH
AJ10-118A	AJGC	AJ10	-	NA	UDMH	-	5730	33.70	-	170.0	1	-	Delta B Stage 2	NA/UDMH
AJ10-118D	AJGC	AJ10	-	NA	UDMH	-	-	33.70	278.0	-	1	-	-	NA/UDMH
AJ10-101	AJGC	AJ10	-	NA	UDMH	-	-	34.30	270.0	-	1	-	-	NA/UDMH
AJ10-40	AJGC	AJ10	-	NA	UDMH	-	-	34.50	-	110.0	1	-	Able	NA/UDMH
AJ10-41	AJGC	AJ10	-	NA	UDMH	-	-	34.50	-	110.0	1	-	Able	NA/UDMH
AJ10-42	AJGC	AJ10	-	NA	UDMH	-	-	34.50	-	110.0	1	-	Able	NA/UDMH
AJ10-101A	AJGC	Able	-	WIFNA	UDMH	-	-	34.70	-	-	1	1958 Apr 23	Able	NA/UDMH
AJ10-118E	AJGC	AJ10	-	NA	UDMH	-	-	35.10	278.0	400.0	1	-	-	NA/UDMH
AJ10-104	AJGC	AJ10	-	NA	UDMH	-	-	35.10	278.0	-	1	-	-	NA/UDMH
RD-852	YUZH	RD-851	-	NA	UDMH	-	-	48.30	255.0	-	1	-	-	NA/UDMH
Bell 8048	BELL	Agena	-	IRFNA	UDMH	-	-	69.00	276.0	120.0	1	1959	Agena A	NA/UDMH
Bell 8096	BELL	Agena	-	IRFNA	UDMH	-	-	71.20	289.8	-	1	1960	Agena B	NA/UDMH
Bell 8096-37	BELL	Agena	-	IRFNA	UDMH	-	-	71.20	289.8	-	1	1960	Agena D	NA/UDMH
Bell 8096-39	BELL	Agena	-	HDA	UDMH USO	-	-	71.20	299.7	-	1	1960	Agena D	NA/UDMH
Bell 8081	BELL	Agena	-	NA	UDMH	-	-	71.20	285.0	-	1	-	-	NA/UDMH
Bell 8247	BELL	Agena	-	NA	UDMH	-	-	71.70	293.0	-	1	1965	GATV	NA/UDMH
Nodong	KPA	Nodong	-	NA	UDMH	-	-	144.00	255.0	170.0	1	-	TD1[1] x 4	NA/UDMH
11D49 [Old]	KBKHA	S5.23	-	NA AK-27	UDMH	-	-	157.50	303.0	335.0	1	-	S3M [See N204]	NA/UDMH
P8E-9 Boost	RDYNE	Lance Boost	Dual Thrust	IRFNA	UDMH	-	-	190.00	227.0	6.1	1	1964	Lance Booster	NA/UDMH
YF-1	CALT	-	-	NA27S	UDMH	-	-	255.00	240.0	130.0	1	-	CZ-1 [1]	NA/UDMH
YF-3	CALT	-	-	NA27S	UDMH	-	-	294.00	287.0	120.0	1	-	CZ-1 [2]	NA/UDMH
YF-2A	CALT	YF-2	-	NA	UDMH	-	-	306.10	268.0	-	1	-	-	NA/UDMH
RD-215	EMASH	RD-215 8D513	-	NA	UDMH	-	-	864.00	291.0	-	1	1960 Jun 6	R-14	NA/UDMH
RD-217	EMASH	RD-215 8D713	-	NA	UDMH	-	-	865.00	289.0	106.0	1	1960 Oct 24	R-16	NA/UDMH

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RD-219	EMASH	RD-215 8D713	-	NA	UDMH	-	-	882.00	293.0	80.0	1	1960 Oct 24	R-16	NA/UDMH
RD-225	EMASH	RD-215	-	NA	UDMH	-	-	889.00	294.0	-	1	-	-	NA/UDMH
RD-216	EMASH/KRAS	RD-215	11D614	NA AK-27	UDMH	-	-	1728.00	291.0	130.0	4	-	Kosmos-3M St1	NA/UDMH
RD-224	EMASH	RD-215	-	NA	UDMH	-	-	1778.00	294.0	-	1	-	-	NA/UDMH
S5.45	ISAEV	S5.45	-	NA	UDMH	-	-	1961.00	267.0	-	1	-	-	NA/UDMH
Monopropellant hydrazine engines														
MR-111	RRC	MR-111	-	-	Hydrazine	-	-	0.00	229.0	-	1	1980 Dec	AOCS 4N	MonoHyd
MR-103	RRC	MR-103	-	-	Hydrazine	-	-	0.00	227.0	-	1	1974 May 30	AOCS 1N	MonoHyd
MR-50	RRC	MR-50	-	-	Hydrazine	-	-	0.02	228.0	-	1	1974 May 22	AOCS 22N	MonoHyd
MR-106	RRC	MR-106	-	-	Hydrazine	-	-	0.03	232.0	-	1	1974	AOCS 30N	MonoHyd
MR-125	RRC	MR-125	-	-	Hydrazine?	-	-	0.11	-	30.0	1	1994	Astrid	MonoHyd
MR-107	RRC	MR-107	-	-	Hydrazine	-	-	0.26	236.0	550.0	1	1990	Pegasus AOCS,HAPS	MonoHyd
MR-104	RRC	MR-104	-	-	Hydrazine	-	-	0.44	239.0	-	1	1977 Aug 30	AOCS 445N	MonoHyd
MR-104H	RRC	MR-104	-	-	Hydrazine	-	-	0.89	-	-	1	2012	AOCS 890N?	MonoHyd
REA 20-4	HASTD	REA20-4	-	-	Hydrazine	-	-	0.56	-	-	1	-	-	MonoHyd
EPBS	JAXA	-	-	-	Hydrazine	-	-	0.40	215.0	-	1	-	-	MonoHyd
Kairos PBS	JAXA	-	-	-	Hydrazine	-	-	0.40 ?	215.0 /	-	1	-	-	MonoHyd
Liquid propellant engines: Nitrogen tetroxide/hydrazine														
GYUB4	ADD	-	-	N2O4?	MMH?	-	-	-	-	-	1	-	GYUB [4]	NTO/Hyd
KZ1-4	ARMT	-	-	N2O4	MMH	-	-	-	-	-	1	-	KZ-1 [4]	NTO/Hyd
KZ1AE-4	ARMT	-	-	N2O4	MMH	-	-	-	-	-	1	-	KZ-1 [4]	NTO/Hyd
R-6C	MARQ	-	-	N2O4	MMH	-	-	0.02	-	-	1	-	ATS-1 AOCS?	NTO/Hyd
VTM	VSSC	-	-	MON-3	MMH	-	-	0.05	-	-	1	2021	SSLV [4]	NTO/Hyd
TR-500	TRW	SCAT	-	N2O4	N2H4	-	-	0.04	-	-	1	2001	Geolite	NTO/Hyd
SE5-2	RDYNE?	SE5-2	-	N2O4	N2H4/MMH	-	-	0.21	272.0	-	2	1962	Agena APS	NTO/Hyd
Draco	SPXTX	-	-	N2O4	MMH	-	-	0.40	-	600.0	1	2009	DragonLab x 18	NTO/Hyd
NRL-US	NRL	-	-	N2O4	MMH	-	-	0.40	-	-	1	2006 Jun	MITEX Stage	NTO/Hyd
S-400-12	ASTL	-	-	N2O4/MON	MMH	-	-	0.44	318.0	-	1	-	European LAE	NTO/Hyd
S-400-15	ASTL	-	-	N2O4/MON	MMH	-	-	0.44	321.0	-	1	-	European LAE	NTO/Hyd
ISRO-LAM	VSSC	ISRO-LAM	-	N2O4	MMH	-	-	0.44	-	-	1	1992 Jul 9	Insat 2	NTO/Hyd
ISPS	TRW	-	-	HDA	USO	-	-	0.45	272.0	-	1	1970s?	NRO Agena(28 flown)	NTO/Hyd
TR-306	TRW	DM-LAE	-	MON	N2H4	-	-	0.45	315.0	-	1	1991 Apr	LM5000	NTO/Hyd
TD-339	RMD	-	-	MON?	MMH-H2O	3.0	-	0.46	287.0	-	1	1966	Surveyor Vernier	NTO/Hyd
TR-308	TRW	DM-LAE	-	N2O4	N2H4	-	-	0.47	322.0	0.0	1	1999	CXO	NTO/Hyd
R-4D-11	PRIMX	R-4D	-	MON-3	MMH	-	20000	0.49	315.5	-	1	-	HS-601 LAE	NTO/Hyd
FY-25	SLREC	FY-25	-	N2O4	MMH	-	-	0.49	308.9	-	1	1994 Nov 29	DFH-3 LAE	NTO/Hyd
TQS492-2	SISP	-	-	MON-I	MMH	-	15000	0.49	315.1	-	1	2011	DFH-4 LAE	NTO/Hyd
EAM	ASTL	-	-	N2O4/MON	MMH	-	-	0.50	325.0	-	1	-	Alphabus	NTO/Hyd
HBT-5	IHI	-	-	MON-3	MMH	-	-	0.50	322.0	-	1	2012	HTV-3	NTO/Hyd
BT-4	IHI/OSCD	DMT	-	N2O4	N2H4	-	-	0.50	329.6	-	1	2002	NStar c LAE(STAR-2)	NTO/Hyd
Leros 1	RPEW	-	-	MON	N2H4	-	-	0.50	314.0	-	1	1991 Mar	Leros 1	NTO/Hyd
500N AKE	IHI	-	-	N2O4	MON-3	-	-	0.55	319.5	-	1	2002	DRTS	NTO/Hyd
Leros 1b	RPEW	-	-	MON	N2H4	-	-	0.67	318.0	-	1	1996	Messenger, MGS	NTO/Hyd
BUS-1 OAT	TRW?	-	-	N2O4	MMH	-	-	1.10	-	-	1	1973?	KH-11	NTO/Hyd
RS-2101A	RDYNE	-	-	N2O4	MMH	-	-	1.33	283.0	-	1	1971	Mariner 9	NTO/Hyd
RS-2101C	RDYNE	-	-	N2O4	MMH	-	-	1.33	294.0	-	1	1975	Viking	NTO/Hyd
RS-14	RDYNE	-	-	N2O4	MMH	-	-	1.40	287.8	-	1	1968	Min 3 PBS	NTO/Hyd
UPS	IHI/NASDA	-	-	N2O4	N2H4	-	-	1.70	321.4	-	1	1998	COMETS LAE	NTO/Hyd
Edge	XIDO	-	-	N2O4?	Hydrazine?	-	-	2.00	-	655.0	1	2020	GS-1 [4]	NTO/Hyd
SICBM4	RDYNE?	-	-	N2O4	MMH	-	-	2.00 ?	-	-	1	1989	SICBM PBS	NTO/Hyd
SSQ Engine	ARMT	-	-	N2O4	UDMH	-	-	3.00	308.0	360.0	1	-	CE-5 SSQ	NTO/Hyd
LVS	VSSC	LVS	-	MON-3	MMH	-	3200	7.40	308.0	-	1	1993	PSLV PS4 x 2	NTO/Hyd
LR101-NA-7	RDYNE	-	-	N2O4	MMH	-	-	5.20	251.0	-	1	1980?	Upper stage vernier	NTO/Hyd
RS-34	RDYNE	-	-	N2O4	MMH	-	-	11.80	308.0	168.0	1	1983	Peacekeeper [4]	NTO/Hyd
AJ10-190	AJGC	Orbiter OME	-	N2O4	MMH	-	-	27.00	316.0	150.0	1	1981	STS OMS	NTO/Hyd
Aestus	ASTO	Aestus	-	N2O4	MMH	-	-	29.00	324.0	-	1	1996	Ariane 5 EPS	NTO/Hyd
MMBPS	TRW	-	-	N2O4	MMH	-	-	40.00	-	-	1	1967	Rhyolite LAE??	NTO/Hyd
RS-36	RDYNE	-	-	N2O4	MMH	-	-	55.60	281.0	-	1	1982	HOE Axial Engine	NTO/Hyd
Super Draco	SPXTX	-	-	N2O4	MMH	-	-	71.00	235.0	25.0	1	2014	Dragon2	NTO/Hyd
Liquid propellant engines: Nitrogen tetroxide/UDMH														
ESM OMS	AJGC	-	-	N2O4	UDMH	-	-	26.60	-	-	1	-	Orion ESM	NTO/UDMH
CL1-2	NADA	-	-	N2O4?	UDMH?	-	-	-	-	-	1	2023	CL-1	NTO/UDMH
CL1-3	NADA	-	-	N2O4?	UDMH?	-	-	-	-	-	1	2023	CL-1	NTO/UDMH
JL3-4	ARMT	-	-	N2O4?	UDMH?	-	-	-	-	-	1	-	-	NTO/UDMH
DST-100	KHMM?	DST-100	-	N2O4	UDMH	-	-	0.10	276.0	-	1	-	-	NTO/UDMH
DST-100A	KHMM?	DST-100	-	N2O4	UDMH	-	-	0.10	304.0	-	1	-	-	NTO/UDMH
RDMT-100	NIIM	RDMT-100	-	N2O4	UDMH	-	-	0.10	260.0	-	1	-	-	NTO/UDMH

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
11D428	KHMM?	11D428	-	N2O4	UDMH	-	-	0.11	-	-	1	-	Yantar URD-II	NTO/UDMH
11D428A	KHMM?	11D428	-	N2O4	UDMH	-	-	0.13	291.0	-	1	-	Prog/Soy/Zvezda	NTO/UDMH
RDMT-135	NIIM	RDMT-100	-	N2O4	UDMH	-	-	0.14	260.0	-	1	-	-	NTO/UDMH
DST-200	KHMM	DST-200	-	N2O4	UDMH	-	-	0.20	280.0	-	1	-	-	NTO/UDMH
DST-200A	KHMM	DST-200	-	N2O4	UDMH	-	-	0.20	300.0	-	1	-	-	NTO/UDMH
RDMT-200	NIIM	RDMT-100	-	N2O4	UDMH	-	-	0.20	255.0	-	1	-	-	NTO/UDMH
LK/LOK-40	UNK	LK/LOK-40	-	N2O4	UDMH	-	-	0.39	-	-	1	-	LK/LOK	NTO/UDMH
11D458	KHMM	11D458	-	N2O4	UDMH	-	-	0.39	252.0	-	1	1977 Jul 17	FGB DPS	NTO/UDMH
RDMT-400	NIIM	RDMT-100	-	N2O4	UDMH	-	-	0.40	255.0	-	1	-	-	NTO/UDMH
DMT-600	KHMM?	RDMT-100	-	N2O4	UDMH	-	-	0.60	301.0	-	1	-	-	NTO/UDMH
PDV-ASAT	DRDO	-	-	N2O4	UDMH	-	-	-	-	-	1	2019	PDV Mk II St 3	NTO/UDMH
S5.120	ISAEV	-	-	N2O4	UDMH	-	-	-	304.0	-	1	-	Argon (Zenit-6U)	NTO/UDMH
OS-M St 4	LYK	-	-	N2O4	UDMH	-	-	-	-	-	1	2019	OS-M1	NTO/UDMH
RD-869	YUZH	-	-	N2O4	UDMH	-	-	2.45	315.5	-	1	2012	Pre Vega	NTO/UDMH
RD-843	YUZH	-	-	N2O4	UDMH	-	-	2.45	315.5	-	1	2012	Vega [4] mdot=0.792	NTO/UDMH
RD-868P	YUZH	-	-	N2O4	UDMH	-	-	2.45	315.5	-	1	2015	Vega [4] mdot=0.792	NTO/UDMH
Volga	PROG	-	-	N2O4	UDMH	-	-	2.90	307.0	-	1	2103	Volga	NTO/UDMH
TH-31	TIANB	-	-	N2O4	MMH	-	-	3.00	306.0	-	1	2023	Tianlong	NTO/UDMH
KRD-79	ISAEV	S5.79	-	N2O4	UDMH	-	-	3.09	-	-	1	-	Salyut-6 engine	NTO/UDMH
KDU-426	ISAEV	11D426	-	N2O4	UDMH	-	-	3.09	292.0	-	1	-	-	NTO/UDMH
KTDU-417 verniers	ISAEV	-	-	N2O4	UDMH	-	-	3.40	253.8	30.0	2	1969 Feb 19	E-8 KT	NTO/UDMH
RD-0225	KBKHA	RD-0225	-	N2O4	UDMH	-	-	3.90	287.0	-	1	-	-	NTO/UDMH
Polyot	ISAEV	-	-	N2O4	UDMH	-	-	3.90	-	-	1	-	IS	NTO/UDMH
KRD-442	ISAEV	11D442	-	N2O4	UDMH	-	-	4.10	-	-	1	1977 Jul 17	FGB DKS	NTO/UDMH
RD-0237	KBKHA/YKVZ	-	-	N2O4	UDMH	-	-	4.90	200.0	-	1	1972	UR-100N BR	NTO/UDMH
RD-866	YUZH?	-	-	N2O4	UDMH	-	-	5.20	306.0	-	1	-	RT-23 PBS	NTO/UDMH
NII-612	UNK	-	-	N2O4	UDMH	-	-	6.00	286.0	-	1	-	-	NTO/UDMH
KTDU-80	ISAEV	S5.80	-	N2O4	UDMH	-	-	6.20	302.0	-	1	-	SoyTM Progress M	NTO/UDMH
YF-50D	CALT	YZ-1	-	N2O4	UDMH	-	-	6.50	315.3	-	1	-	CZ-3C/YZ-1	NTO/UDMH
LE-3 (T)	STA	-	-	WFNA	UDMH	-	-	10.00 ?	-	-	1	-	LS-C 7	NTO/UDMH
YF-23	SLREC	-	-	N2O4	UDMH	-	-	11.80	296.0	347.0	1	1970	CZ-2 St2 vernier x4	NTO/UDMH
RS-18	RDYNE	RS-18	-	N2O4	AZ-50	-	-	15.60	309.9	-	1	1968	LMAS	NTO/UDMH
RD-0236	KBKHA/KOKT	RD-0236	-	N2O4	UDMH	-	-	15.80	293.0	-	4	1972	UR-100N [2] vernier	NTO/UDMH
11D416	ISAEV	-	-	N2O4	UDMH	-	-	16.40	-	-	1	-	-	NTO/UDMH
RD 15A18-BR	UNK	-	-	N2O4	UDMH	-	-	18.60	-	600.0	1	-	R-36M2 BR	NTO/UDMH
KRD-61	ISAEV	-	-	N2O4	UDMH	-	-	18.80	313.0	53.0	1	1969 Jun 14	E-8 VA	NTO/UDMH
KTDU-417	ISAEV	KTDU-425	-	N2O4	UDMH	-	-	18.90	314.0	650.0	1	1969 Feb 19	E-8 KT	NTO/UDMH
KTDU-425	ISAEV	KTDU-417	-	N2O4	UDMH	-	-	18.90	312.0	-	1	-	-	NTO/UDMH
KTDU-425A	ISAEV	KTDU-417	-	N2O4	UDMH	-	-	18.90	315.0	-	1	-	-	NTO/UDMH
S5.98M	ISAEV	-	-	N2O4	UDMH	-	-	19.60	326.0	0.0	1	-	Briz	NTO/UDMH
S5.92	KHMM	S5	-	N2O4	UDMH	-	20000	19.60	330.0	0.0	1	1988	Fobos, Briz, Fregat	NTO/UDMH
S5.92 (A)	KHMM	S5	-	N2O4	UDMH	-	20000	19.91	333.4	350.0	1	1988	Fregat [Umanskiy]	NTO/UDMH
S5.98	KHMM	14D30	-	N2O4	UDMH	-	-	19.62	331.9	200.0	1	1998	Briz-M	NTO/UDMH
RD-858	YUZH	-	-	N2O4	UDMH	-	-	20.10	315.0	-	1	-	-	NTO/UDMH
RD-864	YUZH	-	-	N2O4	UDMH	-	-	20.20	309.0	-	1	-	-	NTO/UDMH
RD-859	YUZH	-	-	N2O4	UDMH	-	-	20.10	312.0	-	1	-	-	NTO/UDMH
Astris	MBB	-	-	N2O4	AZ-50	-	-	22.50	297.0	361.0	1	1968	Astris	NTO/UDMH
ESM OME	AJGC	-	-	N2O4	UDMH	-	-	26.60	-	-	1	-	Orion ESM	NTO/UDMH
RD-0231	KBKHA	-	-	N2O4	UDMH	-	-	29.00	275.0	-	1	-	-	NTO/UDMH
17D61	KHMM	KRD 17D61	-	N2O4	UDMH	-	-	29.40	307.9	600.0	1	1979	Ikar; Yantar 1KFT	NTO/UDMH
11D430	KHMM	KRD 17D52	-	N2O4	UDMH	-	-	29.40	307.0	-	1	-	Yantar 2K	NTO/UDMH
RD-0207	KBKHA	RD-0207	-	N2O4	UDMH	-	-	30.90	297.0	-	1	1963 Nov 5	UR-200 [2] vernier	NTO/UDMH
RD-0214	KBKHA	RD-0207	-	N2O4	UDMH	-	-	31.00	293.0	-	1	1967 Mar 10	UR-500 [3] vernier	NTO/UDMH
S5.51	ISAEV	-	-	N2O4	UDMH	-	-	33.20	314.0	-	1	-	LOK PAO	NTO/UDMH
AJ10-138	AJGC	AJ10	-	N2O4	AZ-50	-	-	35.60	311.0	440.0	1	1964	Transtage x2	NTO/UDMH
AJ10-138A	AJGC	AJ10	ITIP	N2O4	AZ-50	-	-	35.60	309.3	-	1	1964	Transtage x2 (late)	NTO/UDMH
AJ10-138 (early)	AJGC	AJ10	-	N2O4	AZ-50	-	-	35.60	302.0	430.0	1	1964	Transtage x2	NTO/UDMH
AJ10-118F	AJGC	AJ10	-	N2O4	AZ-50	-	-	41.40	280.0	-	1	-	-	NTO/UDMH
TR-201	TRW	-	-	N2O4	AZ-50	-	-	41.90	301.3	-	1	-	Delta 2910	NTO/UDMH
AJ10-118K	AJGC	AJ10	-	N2O4	AZ-50	-	-	43.70	319.2	431.0	1	-	Delta 2 Stage 2	NTO/UDMH
11D79	SOYUZ	-	-	N2O4	UDMH	-	-	44.00	295.0	-	1	-	-	NTO/UDMH
AJ10-118FJ	AJGC	AJ10	-	N2O4	AZ-50	-	-	44.10	319.2	430.0	1	-	N-2 Stage 2	NTO/UDMH
YF-40A	CALT?	-	-	N2O4	UDMH	-	-	49.00	295.0	-	1	-	CZ-4C (3)	NTO/UDMH
LE-3	MHIME	LE-3	-	N2O4	AZ-50	-	-	54.00	285.0	250.0	1	1975	N-1 Stage 2	NTO/UDMH
RD-856	YUZH	-	-	N2O4	UDMH	-	-	54.20	281.0	-	1	-	-	NTO/UDMH
Coralie	LRBA	-	-	N2O4	UDMH	-	-	67.00	281.0	105.0	1	1966	Coralie	NTO/UDMH
Vexin A	LRBA	-	-	N2O4	UDMH	-	-	68.60	277.0	-	1	-	-	NTO/UDMH
Super Draco (1)	SPXTX	-	-	N2O4	MMH	-	-	73.00	235.0	25.0	1	2009	Dragon	NTO/UDMH
RD-854	YUZH	-	-	N2O4	UDMH	-	-	75.00	312.0	-	1	1965 Dec 16	OGCh	NTO/UDMH
Vexin B	LRBA	-	-	N2O4	UDMH	-	-	75.40	251.0	-	1	-	-	NTO/UDMH
RD-0221	KBKHA	-	-	N2O4	UDMH	-	-	78.00	330.0	-	1	-	N-1/L-3 RB	NTO/UDMH
RD-861	YUZH/YUZHM	S5M	D-25	N2O4	UDMH	-	-	78.70	314.4	130.0	1	1977	S5M	NTO/UDMH
RD-861K	YUZH/YUZHM	-	-	N2O4	UDMH	-	-	77.60	330.0	470.0	1	2008	Tsiklon-4 [3]	NTO/UDMH

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
AJ10-137	AJGC	Apollo SPS	-	N2O4	AZ-50	-	-	97.00	314.0	585.0	1	1966	Apollo SPS	NTO/UDMH
YF-40	SLREC	YF	-	N2O4	UDMH	-	-	98.10	303.0	303.0	1	1990	CZ-4 Stage 3	NTO/UDMH
Vexin C	LRBA	-	-	N2O4	UDMH	-	-	99.10	251.0	-	1	-	-	NTO/UDMH
RD R-29RM St 2	UNK	-	-	N2O4	UDMH	-	-	100.00 ?	-	94.0	1	-	R-29RM St 2	NTO/UDMH
RD R-29 St 2	UNK	-	-	N2O4	UDMH	-	-	100.00 ?	-	94.0 ?	1	-	R-29R St 2	NTO/UDMH
RD R-29RM St 3	UNK	-	-	N2O4	UDMH	-	-	100.00 ?	-	87.0	1	-	R-29RM St 3	NTO/UDMH
8D725	EMASH	-	-	N2O4	UDMH	-	-	117.00	325.0	-	1	-	-	NTO/UDMH
RD-0242	KBKHA	-	-	N2O4	UDMH	-	-	123.60	303.0	-	1	-	-	NTO/UDMH
V-825	KLIMOV	-	-	N2O4	UDMH	-	-	131.00 ?	-	40.0 ?	1	-	V-825 St 2	NTO/UDMH
15D13	KLIMOV	8D423, 5D13 type	-	N2O4	UDMH	-	-	131.00 ?	325.0	-	1	-	UR-100 St 2	NTO/UDMH
5D22	KLIMOV	5D13 type	-	N2O4	UDMH	-	-	131.00	-	40.0	1	-	A-350Zh St2	NTO/UDMH
51T6B ZhRD	KLIMOV	5D22?	-	N2O4	UDMH	-	-	131.00 ?	-	40.0 ?	1	-	51T6 [2]	NTO/UDMH
A-350 Sustainer	KLIMOV	5D22?	-	N2O4	UDMH	-	-	131.00 ?	-	40.0	1	-	A-350 St2	NTO/UDMH
RD-862	YUZH	-	-	N2O4	UDMH	-	-	142.60	331.0	-	1	-	-	NTO/UDMH
RD-857	YUZH	15D12	-	N2O4	UDMH	-	-	147.00	330.0	215.0	1	1967	RT-20P [2]	NTO/UDMH
15D169	YUZH	15D12 type	-	N2O4	UDMH	-	-	147.00 ?	330.0 ?	-	-	-	MR-UR-100 [2]	NTO/UDMH
Topaze	SEP	-	-	N2O4	UDMH	-	-	150.00	260.0	40.0	1	-	Topaze	NTO/UDMH
11D49	KHMM	S5.23	-	N2O4	UDMH	-	-	157.50	303.0	335.0	1	-	S3M	NTO/UDMH
RD-0245	KBKHA	-	-	N2O4	UDMH	-	-	211.00	300.0	-	1	-	R29RM St 1 vernier	NTO/UDMH
RD-0216	KBKHA/PERM	RD-0216	15D1	N2O4	UDMH	-	-	219.00	313.0	-	1	-	UR-100 St 1	NTO/UDMH
RD-0217	KBKHA/PERM	RD-0216	15D2	N2O4	UDMH	-	-	219.00	313.0	-	1	-	UR-100 St 1 center	NTO/UDMH
RD-0235	KBKHA/KOKT	RD-0235	-	N2O4	UDMH	-	-	240.00	320.0	-	1	1972	UR-100N [2]	NTO/UDMH
4D10	ISAEV	-	-	N2O4	UDMH	-	-	255.00	-	128.0 ?	1	-	R-27	NTO/UDMH
KPN-4D10	ISAEV	-	-	N2O4	UDMH	-	-	255.00	-	128.0 ?	1	-	Musudan	NTO/UDMH
Dezful	IR	-	-	N2O4	UDMH	-	-	255.00	-	128.0 ?	1	-	Dezful	NTO/UDMH
RD-863	YUZH	-	-	N2O4	UDMH	-	-	276.80	301.0	-	1	-	-	NTO/UDMH
RD-855	YUZH	-	-	N2O4	UDMH	-	-	285.40	292.0	-	1	-	-	NTO/UDMH
HS-15-2	KPA	-	-	N2O4	UDMH	-	-	350.00 ?	-	-	1	-	Hwasong-15	NTO/UDMH
Valois	LRBA	LRBA	-	N2O4	UDMH	-	39000	415.00	265.0	119.0	1	1970	Diamant B [1]	NTO/UDMH
LR91	AJGC	LR91	-	N2O4	AZ-50	-	-	440.00	316.0	182.0	1	1962	Titan 2 Stage 2	NTO/UDMH
LR91AJ5	AJGC	LR91	-	N2O4	AZ-50	-	-	440.00	316.0	182.0	1	1962	Titan 2 Stage 2	NTO/UDMH
LR91AJ9	AJGC	LR91	-	N2O4	AZ-50	-	-	440.00	316.0	182.0	1	1962	Titan 2 Stage 2 ?	NTO/UDMH
Hwasong-12	KPA	-	-	N2O4	UDMH	-	-	470.00	-	128.0 ?	1	-	Hwasong 12	NTO/UDMH
LR91AJ11	AJGC	LR91	-	N2O4	AZ-50	-	-	472.20	316.0	223.0	1	1990s	Titan ??	NTO/UDMH
LR91AJ11A	AJGC	LR91	-	N2O4	AZ-50	-	-	472.20	316.0	223.0	1	1990s	Titan 4 Stage 2	NTO/UDMH
RD-0233	KBKHA	RD-0233	-	N2O4	UDMH	-	-	520.00	310.0	-	1	1972	UR-100N [1]	NTO/UDMH
15D14	KLIMOV	8D419, 5D13 type	-	N2O4	UDMH	-	-	-	-	-	1	-	UR-100 vernier	NTO/UDMH
RD-0203	KBKHA	RD-0203	-	N2O4	UDMH	-	-	560.00	-	-	1	1963 Nov 5	UR-200 [1] x 1?	NTO/UDMH
RD-0204	KBKHA	RD-0203	-	N2O4	UDMH	-	-	560.00	-	-	1	1963 Nov 5	UR-200 [1] x 3?	NTO/UDMH
RD-0206	KBKHA	RD-0203	-	N2O4	UDMH	-	-	590.00	-	-	1	1963 Nov 5	UR-200 [2]	NTO/UDMH
RD-0210	KBKHA	RD-0203	8D411K	N2O4	UDMH	-	-	582.50	326.5	210.0	1	1965 Jul 16	UR-500 [2] x 1?	NTO/UDMH
RD-0211	KBKHA	RD-0203	8D412K	N2O4	UDMH	-	-	582.50	326.5	210.0	1	1965 Jul 16	UR-500 [2] x 3?	NTO/UDMH
RD-0213	KBKHA	RD-0203	8D48	N2O4	UDMH	-	-	583.00	326.5	230.0	1	1967 Mar 10	UR-500 [3]	NTO/UDMH
Viking V	SEP	Viking	-	N2O4	UDMH	-	-	693.00	280.6	142.0	1	1979	Ariane 1 St1	NTO/UDMH
YF-20	SLREC	YF	-	N2O4	UDMH	-	-	696.00	289.0	128.0	4	1973	CZ-2C	NTO/UDMH
YF-25	SLREC	YF	-	N2O4	UDMH	-	-	696.00	289.0	128.0	4	1973	CZ-3B	NTO/UDMH
Viking IV	SEP	Viking	-	N2O4	UDMH	-	-	713.00	295.6	136.0	1	1979	Ariane 1 St2	NTO/UDMH
YF-22 (FB)	SLREC	YF	-	N2O4	UDMH	-	-	716.00	286.9	117.4	1	1990	FB-1 stage 2	NTO/UDMH
Vikas	VSSC	Viking	-	N2O4	UDMH	-	109000	724.00	293.0	158.0	1	1993	PSLV PS2	NTO/UDMH
YF-20B	SLREC	YF	-	N2O4	UDMH	-	-	740.00	289.0	166.0	4	1973	CZ-3A St 1	NTO/UDMH
YF-21	SLREC	YF	-	N2O4	UDMH	-	-	740.40	260.7 s	122.0	1	1970	CZ-2 Stage 1 x4	NTO/UDMH
YF-22	SLREC	YF	-	N2O4	UDMH	-	-	742.00	298.0	109.0	1	1970	CZ-2 Stage 2	NTO/UDMH
YF-22B	SLREC	YF	-	N2O4	UDMH	-	-	742.00	287.6	126.8	1	1990	CZ-4 Stage 2	NTO/UDMH
YF-22B'	SLREC	YF	-	N2O4	UDMH	-	-	742.00	298.0	126.8	1	1990	CZ-4B Stage 2	NTO/UDMH
RD-0228	KBKHA?	-	-	N2O4	UMDH	-	-	755.00	-	153.0 ?	1	-	R-36M [2]	NTO/UDMH
Viking VC	SEP	Viking	-	N2O4	UDMH UH25	-	-	758.50	278.4	205.0	1	-	Ariane St1	NTO/UDMH
Viking VI	SEP	Viking	-	N2O4	UDMH UH25	-	-	758.50	278.0	140.0	1	-	Ariane PAL	NTO/UDMH
Sarmat St2 Eng	KBKHA	RD-0203	-	N2O4	UDMH	-	-	760.00	-	153.0	1	-	Sarmat [2]	NTO/UDMH
RD-0255	KBKHA	RD-0203	-	N2O4	UDMH	-	-	760.00	-	153.0	1	-	R-36M2 [2]	NTO/UDMH
RD-0256	KBKHA	RD-0203	-	N2O4	UDMH	-	-	760.00	-	153.0	1	-	R-36M2 [2] ?	NTO/UDMH
Viking IVB	SEP	Viking	-	N2O4	UDMH UH25	-	-	785.00	293.5	126.0	1	-	Ariane St2	NTO/UDMH
Vikas 4B	VSSC	Viking	-	N2O4	UDMH	-	-	799.00	281.0	200.0	1	1993	GSLV [1]	NTO/UDMH
CL1-1	NADA	-	-	N2O4	UDMH	-	-	800.00 ?	-	-	1	2023	CL-1	NTO/UDMH
HS-15	KPA	RD-250	-	N2O4	UDMH	-	-	800.00 ?	-	-	1	-	Hwasong-15	NTO/UDMH
HS-17	KPA	RD-250	-	N2O4	UDMH	-	-	800.00 ?	-	-	1	-	Hwasong-17	NTO/UDMH
RD-0244	KBKHA/KRAS	RD-0244	-	N2O4	UDMH	-	-	825.80	300.0	79.0	1	-	Shtil' St	NTO/UDMH
HTVE	VSSC	Viking	-	N2O4	UDMH	-	-	846.80	281.0	200.0	1	2018	GSLV [2]	NTO/UDMH
RD-250	EMASH	RD-250	-	N2O4	UDMH	-	-	882.00	269.6 s	120.0	2	1963	R-36 [1]	NTO/UDMH
RD-252	EMASH	RD-250	-	N2O4	UDMH	-	-	902.00	317.6	160.0	2	1963	R-36 [2]	NTO/UDMH
RD-262	EMASH	RD-250	-	N2O4	UDMH	-	-	941.00	318.0	160.0	2	1963	R-36 [2]	NTO/UDMH
LR87AJ5	AJGC	LR87	-	N2O4	AZ-50	-	-	1045.00	296.0	147.0	1	-	Titan 2 Stage 1 x2	NTO/UDMH
RD-263	EMASH/YUZHM	RD-250	-	N2O4	UDMH	-	-	1131.00	-	98.0	1	-	R-36M(x 4 = RD-264)	NTO/UDMH
LR87	AJGC	LR87	-	N2O4	AZ-50	-	-	1226.00	304.0	164.0	1	-	Titan Stage 1 ?	NTO/UDMH

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
LR87AJ9	AJGC	LR87	-	N2O4	AZ-50	-	-	1226.00	304.0	164.0	1	-	Titan Stage 1 ?	NTO/UDMH
LR87AJ11	AJGC	LR87	-	N2O4	AZ-50	-	-	1226.00	304.0	164.0	1	-	Titan Stage 1	NTO/UDMH
LR87AJ11A	AJGC	LR87	-	N2O4	AZ-50	-	-	1226.00	302.0	164.0	1	-	Titan 4B Stage 1 x2	NTO/UDMH
RD-268	EMASH	RD-250	-	N2O4	UDMH	-	-	1236.00	319.0	-	1	1970	MR-UR-100 [1]	NTO/UDMH
RD-273	EMASH	RD-250	-	N2O4	UDMH	-	-	1239.00	-	98.0	1	-	R-36MU [1] x 3	NTO/UDMH
RD-253	EMASH/PERM	RD-253	11D48	N2O4	UDMH	-	-	1635.00	316.0	120.0	1	1965 Jul 16	UR-500 [1] x 6	NTO/UDMH
RD-253 14D14	EMASH/PERM	RD-253	14D14	N2O4	UDMH	-	-	1750.00	316.0	120.0	1	1986	Proton-M [1] x 6	NTO/UDMH
RD-275	EMASH/PERM	RD-253	-	N2O4	UDMH	-	-	1745.00	317.0	130.0	1	1986	Proton-M [1] x 6	NTO/UDMH
RD-251	EMASH/YUZHM	RD-251	-	N2O4	UDMH	-	-	2643.00	301.0	120.0	1	1965	R-36 = RD-250 x 3	NTO/UDMH
RD-261	EMASH/YUZHM	RD-251	-	N2O4	UDMH	-	-	3032.00	270.0 s	120.0	2	1965	R-36 [1] = ? x 3	NTO/UDMH
Liquid propellant engines: Hydrogen peroxide/kerosene														
Sprite	DEHAVE	-	-	H2O2	Kerosene	-	-	22.20	-	-	1	-	RATO	H2O2/Kero
AR2-3	RDYNE	-	-	H2O2	Kerosene JP-4	-	-	31.00	245.0	-	1	-	F-104, X-37B	H2O2/Kero
Skylark L	SKYR	-	-	H2O2	Kerosene	-	-	35.00	272.0	-	1	-	Skylark L	H2O2/Kero
BS.605	BSELC?	-	-	H2O2	Kerosene	-	-	35.60	-	-	-	-	Buccaneer RATO	H2O2/Kero
Spectre	DEHAVE	-	-	H2O2	Kerosene	-	-	35.60	-	-	1	-	Blue Steel	H2O2/Kero
Gamma 2	BSELC?	Gamma	-	H2O2	Kerosene	-	-	68.20	251.0	113.0	2	1969 Jun 27	Black Arrow [2]	H2O2/Kero
Gamma 201	BSELC?	Gamma	-	H2O2	Kerosene	-	-	71.20	226.9	-	4	1958	Black Knight	H2O2/Kero
Gamma 301	BSELC?	Gamma	-	H2O2	Kerosene	-	-	96.10	249.7	-	4	1962	Black Knight	H2O2/Kero
Stentor 101	ASID	-	-	H2O2	Kerosene	-	-	112.00	-	-	1	1950s	Blue Steel	H2O2/Kero
Mockingbird	OSCC	-	-	H2O2	Kerosene	-	-	165.00	-	72.0	1	2001?	Mockingbird	H2O2/Kero
Gamma 8	BSELC?	Gamma	-	H2O2	Kerosene	-	-	234.80	265.0	142.0	8	1969 Jun 27	Black Arrow	H2O2/Kero
YF-85	TIANJ	-	-	H2O2	Kerosene	-	-	4000.00	-	-	1	2015	CZ-6	H2O2/Kero
Liquid propellant engines: LOX/Alcohol														
MX-774	RMI	MX-774	-	LOX	Alcohol	-	-	9.00	-	75.0	1	1948	Hiroc	LOX/Alcohol
Momo 6	IST	-	-	LOX	Ethanol	-	-	14.00	-	100.0	1	2021	Momo	LOX/Alcohol
Momo	IST	-	-	LOX	Ethanol	-	-	12.00	-	100.0	1	2017	Momo	LOX/Alcohol
Xaero	MASTEN	-	-	LOX	Alcohol	-	-	13.20	-	-	1	-	Xaero	LOX/Alcohol
STIG-B	ARMAD	-	-	LOX	Ethanol	-	-	22.50 ?	200.0 ?	50.0	1	2011	STIG-B	LOX/Alcohol
STIG-A	ARMAD	-	-	LOX	Ethanol	-	-	22.50 ?	200.0	50.0	1	2011	STIG-A	LOX/Alcohol
SARGE	EXOSA	LE23000FC	-	LOX	Ethanol	-	-	24.10	200.0 ?	60.0	1	2018	SARGE	LOX/Alcohol
Hermes A-1	GEMTS	Hermes	-	LOX	Alcohol	-	-	71.00	-	-	1	1950	Hermes A-1	LOX/Alcohol
Hermes A-3A	GEMTS	Hermes	-	LOX	Alcohol	-	-	80.00	242.0	-	1	1953	Hermes A-3A	LOX/Alcohol
NRL Viking	RMI	NRL Viking	-	LOX	Alcohol	-	-	93.50	195.0 s	70.0	1	1949 May	Viking	LOX/Alcohol
Hermes A-3B	GEMTS	Hermes	-	LOX	Alcohol	-	-	100.00	242.0	-	1	1954	Hermes A-3B	LOX/Alcohol
RD-100	EMASH	A-4	8D51	LOX	Alcohol	-	-	307.00	206.0	63.0	1	1948 Sep 17	R-1	LOX/Alcohol
A-4	HVP	A-4	-	LOX	Alcohol	-	-	312.00	203.0	68.0	1	1942 Jun 13	A-4	LOX/Alcohol
XLR-43-NA-1	NAADR	XLR-43	-	LOX	Alcohol	-	-	333.00	-	-	1	-	-	LOX/Alcohol
DF-1	CALT?	R-2	-	LOX	Alcohol	-	-	363.00 s	210.0	-	1	-	DF-1	LOX/Alcohol
RD-101	EMASH/YUZHM	A-4	8D52	LOX	Alcohol	-	-	363.00 s	210.0	-	1	1949 Sep 25	R-2	LOX/Alcohol
RD-103	EMASH/YUZHM	A-4	8D54	LOX	Alcohol	-	-	500.00	220.0	-	1	1953 Mar 15	R-5	LOX/Alcohol
RD-103M	EMASH/YUZHM	A-4	8D71	LOX	Alcohol	-	-	500.00	220.0	-	1	1953 Mar 15	R-5M	LOX/Alcohol
XLR-83-NA-1	NAADR	XLR-83	-	LOX	Alcohol	-	-	602.00	273.0	-	1	-	-	LOX/Alcohol
Liquid propellant engines: LOX/UDMH														
RD-119	EMASH/KRAS	RD-109	8D710	LOX	UDMH	-	-	105.00	352.0	-	1	1961	63S1	LOX/UDMH
Redstone A-7	ABMA	Redstone	-	LOX	Hydyne	-	58000	416.20	265.0	155.0	1	1953 Aug 20	Juno I [1]	LOX/UDMH
RD-112	EMASH	RD-112	-	LOX	UDMH	-	-	1089.00	344.0	-	1	1960?	-	LOX/UDMH
RD-113	EMASH	RD-112	-	LOX	UDMH	-	-	1138.00	360.0	-	1	1960?	-	LOX/UDMH
RD-114	EMASH	RD-112	-	LOX	UDMH	-	-	1653.00	341.0	-	1	1961?	-	LOX/UDMH
RD-115	EMASH	RD-112	-	LOX	UDMH	-	-	1726.00	357.0	-	1	1961?	-	LOX/UDMH
Liquid propellant engines: LOX/Ammonia														
XLR-11	RMI	XLR-11	-	LOX	Ammonia	-	-	36.00	-	100.0	4	1959	X-15	LOX/NH3
XLR-99	RMD	XLR-99	-	LOX	Ammonia	-	-	257.00	276.0	100.0	1	1960	X-15	LOX/NH3
Liquid propellant engines: LOX/Kerosene														
Phoenix	GILM	-	-	LOX	Kero	-	-	-	-	-	1	2024	Eris St 3	LOX/Kero
NK Kero	KP	-	-	LOX	Kero	-	-	-	-	-	1	2024	NK Kerolox	LOX/Kero
Aether	ASTRV	-	-	LOX	Kero	-	-	3.30	-	315.0	1	2020	Astra St 1	LOX/Kero
Buran UD	OKB1	-	17D15	GOX	Kero Sintin	-	-	4.00	280.0	-	1	1988 Nov 15	Buran (x38)	LOX/Kero
SALVO Ventions	VENT	-	-	LOX	Kero	-	-	4.40	-	-	1	2014	SALVO	LOX/Kero
XR-5K18	XCOR	-	-	LOX	Kero	-	-	12.90	-	-	1	2011	XCOR Lynx	LOX/Kero
Astra E1	ASTRV	-	-	LOX	Kero	-	-	18.00 ?	-	-	1	2017	Astra St 1	LOX/Kero
Rutherford	RLABU	-	-	LOX	Kero	-	-	20.30	311.0	-	1	2017	Electron St 1	LOX/Kero
Rutherford Vac	RLABU	-	-	LOX	Kero	-	-	22.00	343.0	-	1	2017	Electron St 2	LOX/Kero

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
NewtonFour	VORB	-	-	LOX	Kerosene RP-1	-	-	22.00	0.0	-	1	2019	LauncherOne [2]	LOX/Kero
Hadley	UMAJ	-	-	LOX	Kero	-	-	22.00	-	-	1	2019	Talon [1]	LOX/Kero
Delphin	ASTRV	-	-	LOX	Kero	-	-	28.00	-	170.0	1	2020	Astra St 1	LOX/Kero
TEPREL-B	PLDS	-	-	LOX	Kero	-	-	30.20	-	240.0	1	2023	Miura 1	LOX/Kero
Kestrel	SPXTX	-	-	LOX	Kero	-	-	33.00	317.0	378.0	1	-	Falcon 1 [2]	LOX/Kero
RO-5	KBKHA	-	8D714	LOX	Kero	-	-	49.90	316.0	450.0	1	1958	Blok E	LOX/Kero
RO-7	KBKHA	-	8D719	LOX	Kero	-	-	54.50	323.0	430.0	1	1959	Blok E	LOX/Kero
ABL E2	ABLSS	-	-	LOX	Kero RP-1	-	-	58.00	-	420.0	1	2022	RS1	LOX/Kero
S1.5400	OKB1	S1.5400	11D33	LOX	Kero	-	-	66.70	340.0	250.0	1	1965	Blok L	LOX/Kero
KRE-007 V	KARI	-	-	LOX	Kero Jet A	-	-	68.70	325.1	498.0	1	2021	KSLV2 [3]	LOX/Kero
Lightning 1	FFLY	-	-	LOX	Kero RP-1	-	-	70.10	322.0	-	1	2021	Firefly [2]	LOX/Kero
RD-8	YUZH	-	-	LOX	Kero	-	-	78.40	342.0	-	1	1985	Zenit [2]	LOX/Kero
11D58	EMASH	RD-58	-	LOX	Kero	-	-	85.00	349.0	600.0	1	1967	Blok D	LOX/Kero
11D58M	VORO	RD-58	-	LOX	Kero	-	-	85.00	352.0	680.0	1	1976	Blok DM	LOX/Kero
11D58M (s)	VORO	RD-58M	-	LOX	Kero Sintin	-	-	83.50	362.0	680.0	1	1976	Blok D-1	LOX/Kero
17D12	VORO	RD-58 (Buran ODU)	-	LOX	Kero Sintin	-	-	86.30	362.0	680.0	1	1988	Buran	LOX/Kero
X-405	GEMTS	X-405	-	LOX	Kero	-	-	120.00	-	144.0	1	1957	Vanguard St1	LOX/Kero
KSR-III	KARI	-	-	LOX	Kero	-	-	126.00	-	59.0	1	2002	KSR-3	LOX/Kero
YF-115	TIANJ	-	-	LOX	Kero	-	-	176.50	342.0	-	1	-	CZ-6 St 2	LOX/Kero
Reaver 1	FFLY	-	-	LOX	Kero RP-1	-	-	184.00	295.6	-	1	2021	Firefly [1]	LOX/Kero
MA-2/S	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	254.00 s	213.0	281.0	1	1959	Atlas D	LOX/Kero
MA-3/S	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	254.00 s	214.0	-	1	-	Atlas E	LOX/Kero
Fastrac	MSFC	Fastrac	-	LOX	Kerosene RP-1	-	-	265.00	-	-	1	-	X-34	LOX/Kero
MA-1/S	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	267.00	210.0	253.6	1	1957	Atlas B	LOX/Kero
MA-5/S	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	269.20 s	220.0	-	1	-	Atlas SLV	LOX/Kero
RD-0124	KBKHA	RD-0106	14D23	LOX	Kero	-	-	294.30	359.0	-	1	2006	Soyuz-2-1B St3	LOX/Kero
RD-0124A	KBKHA	-	-	LOX	Kero	-	-	294.30	359.0	424.0	1	2014	Angara URM-2	LOX/Kero
RD-0124N	KBKHA	-	-	LOX	Kero Naphthyl	-	-	294.30	359.0	-	1	2017	Soyuz-2-1B St3	LOX/Kero
11D55	KBKHA	RD-0106	RD-0110?	LOX	Kero RG-1	-	-	298.00	326.0	250.0	4	1965	Blok I	LOX/Kero
TH-11	TIANB	-	-	LOX	Kero	-	-	300.00	346.0	-	1	2023	Tianlong-2	LOX/Kero
RD-0110	KBKHA	RD-0106	-	LOX	Kero	-	-	297.90	325.0	240.0	4	1960	Blok I	LOX/Kero
RD-0107	KBKHA	RD-0106	8D715K	LOX	Kero	-	-	297.90	326.0	250.0	4	1962	Blok I	LOX/Kero
RD-0106	KBKHA	RD-0106	8D715	LOX	Kero	-	-	300.00	325.0	140.0	4	1961 Apr 9	R-9 St2	LOX/Kero
NewtonThree	VORB	-	-	LOX	Kerosene RP-1	-	-	330.00	0.0	-	1	2019	LauncherOne [1]	LOX/Kero
Merlin 1A	SPXTX	-	-	LOX	Kero	-	-	378.00	304.0	169.0	1	-	Falcon 1 [1]	LOX/Kero
MA-5A/S	RDYNE	MA-1/H-1	-	LOX	Kerosene RP-1	-	-	380.60	311.0	274.0	1	-	Atlas 2	LOX/Kero
Merlin 1C	SPXTX	-	-	LOX	Kero	-	-	400.00	304.0	169.0	1	-	Falcon 1 [1]	LOX/Kero
NK-21	NKE	NK	-	LOX	Kero	-	-	402.00	353.0	370.0	1	1969 Feb	N-1 St3	LOX/Kero
NK-31	NKE	NK	-	LOX	Kero	-	-	402.00	-	400.0	1	-	N-1 St3 rev	LOX/Kero
Merlin 1C-Vac	SPXTX	-	-	LOX	Kero	-	-	427.00	342.0	169.0	1	-	Falcon 9 [1]	LOX/Kero
NK-19	NKE	NK	-	LOX	Kero	-	-	445.00	353.0	443.0	1	1969 Feb	Blok G	LOX/Kero
G-38	RDYNE	-	LR83-NA1	LOX	Kero	-	-	534.00	282.0	-	1	1956	Navaho	LOX/Kero
Merlin 1C+	SPXTX	-	-	LOX	Kero	-	-	572.00	304.0	169.0	1	-	Falcon 1e [1]	LOX/Kero
Merlin 1D	SPXTX	-	-	LOX	Kero	-	-	616.00	304.8	169.0	1	-	Falcon 9 [1]	LOX/Kero
YF-102	TIANJ	-	-	LOX	Kero	-	-	620.00	275.0	130.0	1	2023	Tianlong-2	LOX/Kero
S-3D	RDYNE	S-3D	-	LOX	Kero RP-1	-	120100	667.00	247.0	180.0	1	1957	Jupiter [1]	LOX/Kero
MB-3	RDYNE	MB-3	LR79-NA9	LOX	Kero RJ-1	-	116000	710.00	-	160.0	1	1957	Thor DM-18 [1]	LOX/Kero
Merlin 1D-FT	SPXTX	-	-	LOX	Kero	-	-	720.00	304.8	169.0	1	-	Falcon 9 [1]	LOX/Kero
H-1	RDYNE	H-1	-	LOX	Kero	-	-	721.00	263.0	115.0	1	1961	Saturn I	LOX/Kero
KRE-075 SL	KARI	-	-	LOX	Kero Jet A	-	-	788.00	315.4	498.0	1	2021	KSLV2 [2]	LOX/Kero
KRE-075 V	KARI	-	-	LOX	Kero Jet A	-	-	735.50	298.6	127.0	1	2021	KSLV2 [1]	LOX/Kero
RZ.2	RROY	-	-	LOX	Kero	-	-	756.00	248.0 s	146.0	1	1964	Blue Streak (x2)	LOX/Kero
MB-3-2	RDYNE	MB-3	LR79-NA9	LOX	Kero RJ-1	-	-	760.00	-	170.0	1	-	Thor DM-21 [1]	LOX/Kero
MB-3-3	RDYNE	MB-3	LR79-NA9	LOX	Kero RJ-1	-	-	779.00	-	170.0	1	-	Thor LTTAT [1]	LOX/Kero
MB-3 DM-21	RDYNE	MB-3	LR79-NA9	LOX	Kero RJ-1	-	-	779.00	-	170.0	1	-	Thor DM-21 [1]	LOX/Kero
Merlin 1D-4	SPXTX	-	-	LOX	Kero	-	-	780.00	304.8	169.0	1	-	Falcon 9 [1]]	LOX/Kero
Merlin 1D-Vac	SPXTX	-	-	LOX	Kero	-	-	801.00	345.0	372.0	1	-	Falcon 9-1.1 [2]	LOX/Kero
RD-120	EMASH/YUZHM	11D123	-	LOX	Kero	-	-	834.00	350.0	-	1	1985 Apr 13	Zenit St 2	LOX/Kero
Merlin 1D-5	SPXTX	-	-	LOX	Kero	-	-	845.00	304.8	169.0	1	-	Falcon 9 [1]	LOX/Kero
8D75PS	EMASH	RD-108	RD-108	LOX	Kero T-1	-	-	941.00	308.0	340.0	4	-	Sputnik	LOX/Kero
8D75	EMASH	RD-108	RD-108	LOX	Kero T-1	-	-	941.00	308.0	340.0	4	-	Sputnik	LOX/Kero
8D727	EMASH	RD-108	RD-108MM	LOX	Kero T-1	-	-	833.00	308.0	340.0	4	-	Sputnik	LOX/Kero
8D74PS	EMASH	RD-108	RD-107	LOX	Kero T-1	-	-	1000.00	306.0	146.0	4	-	Sputnik	LOX/Kero
8D74	EMASH	RD-108	RD-107	LOX	Kero T-1	-	-	1000.00	256.0	140.0	4	-	Sputnik	LOX/Kero
8D728	EMASH	RD-108	RD-107MM	LOX	Kero T-1	-	-	921.00	257.0	140.0	4	-	Molniya	LOX/Kero
11D511	EMASH	RD-108	-	LOX	Kero T-1	-	-	978.00	316.0	290.0	4	-	Soyuz A	LOX/Kero
RD-107	EMASH/MOTOS	RD-108	-	LOX	Kero T-1	-	-	991.70	310.0	120.0	4	-	Soyuz BVGD	LOX/Kero
RD-108	EMASH/MOTOS	RD-108	-	LOX	Kero T-1	-	-	997.10	311.0	286.0	4	-	Soyuz A	LOX/Kero
11D512	EMASH	RD-108	-	LOX	Kero T-1	-	-	1000.00	314.5	120.0	4	-	Soyuz BVGD	LOX/Kero
RD-108PF	EMASH	RD-108	11D512PF	LOX	Kero Sintin	-	-	1009.40	311.0	286.0	4	-	Soyuz U2 A	LOX/Kero
RD-107A	EMASH	RD-108	14D22	LOX	Kero T-1	-	-	1000.00 ?	310.0	120.0	4	-	Soyuz FG BVGD	LOX/Kero
RD-108A	EMASH	RD-108	14D21	LOX	Kero T-1	-	-	1000.00 ?	311.0	286.0	4	-	Soyuz FG A	LOX/Kero
RS-27	RDYNE	RS-27	-	LOX	Kerosene RP-1	-	-	1023.00	295.0	274.0	1	1974 Jan 19	Thor	LOX/Kero

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RS-27A	RDYNE	RS-27	-	LOX	Kerosene RP-1	-	-	1086.00	302.0	261.0	1	1990	Thor	LOX/Kero
TH-12	TIANB	Tianhuo-12	-	LOX	Kerosene RP-1	-	-	1090.00	285.0	100.0	1	2024	TL-3	LOX/Kero
YGCS	TIANJ	-	-	LOX	Kero	-	-	1200.00 ?	305.0	155.0	1	-	YGCS	LOX/Kero
YF-100	TIANJ	-	-	LOX	Kero	-	-	1200.00 ?	305.0	155.0	1	-	CZ-5	LOX/Kero
YF-100K	TIANJ	-	-	LOX	Kero	-	-	1250.00	335.0	155.0	1	-	CZ-12	LOX/Kero
MA-1/B-A	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	1210.00	245.0	125.0	2	1957	Atlas A	LOX/Kero
MA-1/B	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	1335.00 s	245.0	128.0	2	1957	Atlas B	LOX/Kero
TH-12V	TIANB	-	-	LOX	Kerosene RP-1	-	-	1350.00	335.0	-	1	2024	TL-3	LOX/Kero
RD-111 (1)	EMASH	RD-111	8D717	LOX	Kero	-	-	1373.00	327.0	-	4	1961?	R-9 St 1	LOX/Kero
MA-2/B	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	1375.00 s	248.0	135.0	2	1959	Atlas D	LOX/Kero
RD-111	EMASH	RD-111	8D716	LOX	Kero	-	-	1381.00	312.0	108.0	4	1961 Apr 9	R-9 St 1	LOX/Kero
MA-3/B	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	1468.00 s	250.0	-	2	1959	Atlas E	LOX/Kero
NK-33	NKE	-	-	LOX	Kero	-	-	1510.00	-	110.0	1	-	N-1 St1 rev	LOX/Kero
AJ26-62	AJ/NKE	-	-	LOX	Kero	-	-	1510.00	-	-	2	-	Taurus 2 [1]	LOX/Kero
RD-151	EMASH	RD-170	-	LOX	Kero	-	-	1670.00	337.0	229.0	1	2009	Naro-1	LOX/Kero
MA-5/B	RDYNE	MA-1	-	LOX	Kerosene RP-1	-	-	1677.00 s	259.0	-	2	1962	Atlas SLV	LOX/Kero
NK-15	NKE	NK	-	LOX	Kero	-	-	1677.00	284.0	125.0	1	1969 Feb	N-1 St1	LOX/Kero
NK-43	NKE	NK	-	LOX	Kero	-	-	1750.00	-	130.0	1	-	N-1 St2 rev	LOX/Kero
NK-15V	NKE	NK	-	LOX	Kero	-	-	1755.00	346.0	120.0	1	1969 Feb	N-1 St2	LOX/Kero
RD-181	EMASH	RD-170	-	LOX	Kerosene RP-1	-	-	1922.00	311.9 s	-	1	2015	Antares [1]	LOX/Kero
NK-33A	NKE	14D15	-	LOX	Kero	-	-	1962.00	331.2	-	1	-	Soyuz-2-1V	LOX/Kero
MA-5A/B	RDYNE	MA-5	-	LOX	Kerosene RP-1	-	-	2065.00	293.4	165.0	2	1991	Atlas 2	LOX/Kero
RD-191	EMASH	RD-170	-	LOX	Kero	-	-	2079.00	337.0	150.0	1	2009	Angara URM	LOX/Kero
RD-180	EMASH	RD-170	-	LOX	Kerosene RP-1	-	-	4152.00	337.8	190.0	2	2000 May 24	Atlas 3 [1]	LOX/Kero
F-1	RDYNE	F-1	-	LOX	Kerosene RP-1	-	-	6680.00	260.0	-	1	1967	Saturn V [1]	LOX/Kero
RD-170	EMASH	RD-170	11D521	LOX	Kero	-	-	7908.00	337.0	-	4	1985 Apr 13	Energiya	LOX/Kero
RD-171	EMASH	RD-170	11D520	LOX	Kero	-	-	7908.00	337.0	-	4	1985 Apr 13	Zenit St 1	LOX/Kero
ROKETSAN-SR-0.1	ROKSN	-	-	LOX?	Kero?	-	-	-	-	-	-	2020	SR 0.1 [2]	LOX/Kero
Liquid propellant engines: LOX/Methane														
BW1-2	PERI	-	-	LOX	Methane LNG	-	-	-	348.0 ?	-	1	2020	Blue Whale 1 [2]	LOX/Methane
BW1-1	PERI	-	-	LOX	Methane LNG	-	-	-	348.0	150.0	1	2020	Blue Whale 1 [1]	LOX/Methane
PWR35M	PWRD	-	-	LOX	Methane	-	-	-	-	-	1	2009	Taurus 2 Alt-2	LOX/Methane
Aeon 1	RELSP	-	-	LOX	Methane	-	-	102.00	-	-	1	2023	Terran-1 [1]	LOX/Methane
AeonVac	RELSP	-	-	LOX	Methane	-	-	126.00	-	-	1	2023	Terran-1 [2]	LOX/Methane
JD-1	XJRY	-	-	LOX	Methane LNG	-	-	150.00	355.0	-	1	2020	SQ2	LOX/Methane
TQ-11	LANDSP	-	-	LOX	Methane	-	-	658.00	331.0	-	4	2019	ZQ-2	LOX/Methane
Archimedes	RLABU	-	-	LOX	Methane LNG	-	-	730.00	329.0	-	1	2025	Neutron	LOX/Methane
Longyun	JZYJ	-	-	LOX	Methane	-	-	770.00	350.0 0	-	1	2025	YXZ-1	LOX/Methane
TQ-12	LANDSP	-	-	LOX	Methane	-	-	800.00	350.0	-	1	2019	ZQ-2	LOX/Methane
TQ-12A	LANDSP	-	-	LOX	Methane	-	-	810.00	354.0	-	1	2024	ZQ-2	LOX/Methane
TQ-15A	LANDSP	-	-	LOX	Methane	-	-	836.00	350.0	-	1	2024	ZQ-2	LOX/Methane
Archimedes Vac	RLABU	-	-	LOX	Methane LNG	-	-	890.00	367.0	-	1	2025	Neutron	LOX/Methane
JD-2	XJRY	-	-	LOX	Methane LNG	-	-	1000.00	300.0	-	1	2020	SQ2	LOX/Methane
Raptor SL	SPX	-	-	LOX	Methane	-	-	1950.00	-	-	1	2019	Starship	LOX/Methane
Raptor 2 Vac	SPX	-	-	LOX	Methane	-	-	2500.00	-	-	1	2020	Starship	LOX/Methane
Raptor 3 SL	SPX	-	-	LOX	Methane	-	-	2800.00	-	-	1	2019	Starship	LOX/Methane
Raptor 3 Vac	SPX	-	-	LOX	Methane	-	-	2800.00	-	-	1	2020	Starship	LOX/Methane
BE-4	BLORTX	-	-	LOX	Methane LNG	-	-	2447.00	-	-	1	2023	Vulcan	LOX/Methane
Liquid propellant engines: LOX/Propane														
Aquila SL	ISAR	-	-	LOX	Propane	-	-	75.00	-	-	1	2025	Spectrum	LOX/Propane
Aquila Vac	ISAR	-	-	LOX	Propane	-	-	94.00	-	-	1	2025	Spectrum	LOX/Propane
Weka	NASCOM	-	-	LOX	Propane	-	-	-	-	-	-	2024	Weka	LOX/Propane
Liquid propellant engines: LOX/Hydrogen														
YF-73	SLREC	YF-73	-	LOX	LH2	-	-	44.10	425.0	800.0	4	1984	CZ-3 Stage 3	LOX/LH2
HM-7	SEP	-	-	LOX	LH2	-	-	61.70	442.6	510.1	1	1979	Ariane H8	LOX/LH2
HM-7B	SEP	-	-	LOX	LH2	-	-	64.80	445.1	745.0	1	-	Ariane H10-3	LOX/LH2
RL10	PWFL	RL10	-	LOX	LH2	-	-	66.70	433.0	470.0	1	-	Centaur I	LOX/LH2
RL10A-1	PWFL	RL10	-	LOX	LH2	-	-	66.70	425.0	430.0	1	-	Centaur	LOX/LH2
RL10A-3	PWFL	RL10	-	LOX	LH2	-	-	65.60	444.0	470.0	1	-	Centaur	LOX/LH2
ICE	ISRO	-	-	LOX	LH2	-	-	69.50	452.0	720.0	1	-	GSLV 3	LOX/LH2
RL10A-3A	PWFL	RL10	-	LOX	LH2	-	-	73.40	444.0	550.0	1	-	Centaur	LOX/LH2
RL10A-3-3A	PWFL	RL10	-	LOX	LH2	-	-	73.40	444.0	550.0	1	-	Centaur T	LOX/LH2
KVD-1M	KHMM	-	RD-56M	LOX	LH2	-	-	75.00	460.0	675.0	1	-	GSLV GS3	LOX/LH2
YF-75	SLREC	YF-75	-	LOX	LH2	-	-	78.50	440.0	470.0	1	-	CZ-3A Stage 3	LOX/LH2
YF-75D	SLREC	YF-75	-	LOX	LH2	-	-	88.30	442.0	700.0	1	-	CZ-5 Stage 2	LOX/LH2
YF-75H	SLREC	YF-75	-	LOX	LH2	-	-	100.00	442.6	700.0	1	-	CZ-8A Stage 2	LOX/LH2
RL10A-4	PWFL	RL10	-	LOX	LH2	-	-	92.60	449.0	370.0	1	-	Centaur IIA	LOX/LH2

Engines

Name	Manufacturer	Family	Alt_Name	Oxidizer	Fuel	Mass kg	Impulse kNs	Thrust kN	Isp s	Duration s	Chambers	Date	Usage	Group
RL10A-4-1	PWFL	RL10	-	LOX	LH2	-	-	99.20	450.5	370.0	1	-	Centaur IIA/IIIA	LOX/LH2
RL10A-4-1B	PWFL	RL10	-	LOX	LH2	-	-	99.20	450.5	370.0	1	-	Centaur IIIA	LOX/LH2
RL10A-4-2	PWFL	RL10	-	LOX	LH2	-	-	99.20	451.0	370.0	1	-	Centaur	LOX/LH2
LE-5	MHIME	LE-5	-	LOX	LH2	-	-	107.00	448.0	370.0	1	-	H1 St2	LOX/LH2
RL10B-2	PWFL	RL10	-	LOX	LH2	-	-	110.10	465.5	700.0	1	1998	Delta III	LOX/LH2
RL10C-1	PWFL	RL10	-	LOX	LH2	-	-	101.80	449.7	700.0	1	2014	Delta IV	LOX/LH2
RL10C-1-1	PWFL	RL10	-	LOX	LH2	-	-	101.80	449.7	700.0	1	2021	Atlas V	LOX/LH2
RL10C-1-1A	PWFL	RL10	-	LOX	LH2	-	-	106.00	449.7	700.0	1	2023	VC	LOX/LH2
RL10C-2	PWFL	RL10	-	LOX	LH2	-	-	110.00	462.5	700.0	1	2014	SLS?	LOX/LH2
RL10C-2-1	PWFL	RL10	-	LOX	LH2	-	-	110.10	462.5	700.0	1	2014	Delta IV	LOX/LH2
RL10CX	PWFL	RL10	-	LOX	LH2	-	-	120.00 ?	462.5 ?	700.0 ?	1	2019	Vulcan Centaur	LOX/LH2
LE-5A	MHIME	LE-5	-	LOX	LH2	-	-	122.00	452.0	600.0	1	1994	H2 St2	LOX/LH2
LE-5B	MHIME	LE-5	-	LOX	LH2	-	-	137.00	447.0	530.0	1	-	H2A St2	LOX/LH2
LE-5B-3	MHIME	LE-5	-	LOX	LH2	-	-	137.00	448.0	686.0	1	2023	H3 St2	LOX/LH2
Vinci	SNECMA	-	-	LOX	LH2	-	-	180.00	457.0	300.0	1	2024	Ariane 6	LOX/LH2
CE-20	VSSC	-	-	LOX	LH2	-	-	186.00	443.0	550.0	1	2009	C-25	LOX/LH2
BE-3 (BLOR)	BLORH	-	-	LOX	LH2	-	-	490.00	-	145.0	1	-	New Shepard	LOX/LH2
BE-3U	BLORH	-	-	LOX	LH2	-	-	770.00	445.0	-	1	-	New Glenn St 2	LOX/LH2
YF-77	CALT	-	-	LOX	LH2	-	-	673.00 ?	438.0	500.0 ?	1	-	CZ-5	LOX/LH2
J-2	RDYNE	J-2	-	LOX	LH2	-	-	1023.00	427.0	-	1	1966	Saturn IVB	LOX/LH2
LE-7	MHIME	LE-5	-	LOX	LH2	-	-	1080.00	445.6	346.0	1	1994	H2 St1	LOX/LH2
LE-7A	MHIME	LE-5	-	LOX	LH2	-	-	1100.00	440.0	390.0	1	-	H2A St1	LOX/LH2
Vulcain	SEP	-	-	LOX	LH2	-	-	1114.00	430.0	589.0	1	1996	Ariane EPC H158	LOX/LH2
Vulcain 2	SEP	-	-	LOX	LH2	-	-	1300.00	434.0	589.0	1	2002	Ariane EPC H175	LOX/LH2
J-2X	PWRD	J-2	-	LOX	LH2	-	-	1308.00	448.0	465.0	1	2010	Ares I	LOX/LH2
Vulcain 2.1	SEP	-	-	LOX	LH2	-	-	1324.00	434.0	589.0	1	2024	Ariane 6 LLPM	LOX/LH2
LE-9	MHIME	LE-5	-	LOX	LH2	-	-	1471.00	426.9	298.0	1	2023	H3 St1	LOX/LH2
RD-0120	KBKHA	11D122	-	LOX	LH2	-	-	1961.00	455.0	480.0	1	1987 May 15	Energiya St2	LOX/LH2
SSME	RDYNE	RS-25	-	LOX	LH2	-	-	2100.00	452.5	516.0	1	1981	STS ET	LOX/LH2
RS-25	RDYNE	RS-25	-	LOX	LH2	-	-	2100.00	452.5	516.0	1	2022	SLS	LOX/LH2
RS-68	RDYNE	RS-68	-	LOX	LH2	-	-	2950.00 s	409.0 s	-	1	-	Delta 4	LOX/LH2
RS-68A	RDYNE	RS-68	-	LOX	LH2	-	-	3124.00 s	414.0 s	-	1	2012	Delta 4	LOX/LH2
Liquid propellant engines: Green														
Curie	RLABU	-	-	LOX?	RL Green Prop	-	-	0.12	303.0	-	1	2017	Electron St 3	Green
HyperCurie	RLABU	-	-	LOX?	RL Green Prop	-	-	0.50	320.0	-	1	2017	Electron St 3	Green
GR-1	RDYNE	-	-	-	NH3OHNO3 AF-M315E	0.0	-	-	-	-	-	2017	GPM	Green
Electric propulsion engines: Xenon, Krypton														
PPS-1350	SEPVR	-	-	Elec SPT	Xe	-	-	0.00	1800.0	-	1	-	SMART-1/Stentor	EP
PPS-5000	SNECMS	-	-	Elec SPT	Xe	-	-	0.00	2000.0	-	1	-	Spacebus-NEO XPS	EP
XIPS-25	L3HED	-	-	IPS	Xe	-	0	0.00	3550.0	-	1	-	XIPS-25	EP
NSTAR-30	L3HED	-	-	IPS	Xe	-	0	0.00	3550.0	-	1	-	XIPS-30	EP
Starlink Kr EPS	SPXS	-	-	IPS	Kr	-	0	-	-	-	1	2019	Starlink	EP

Worlds

IDT	IDName	Name	AltName	Radius km	PolarRadius km	Mass Eg	SemiMajorAxis km	Periapsis km	Ecc	Inc deg	Node deg	Peri deg	M deg	Epoch	RotPeriod d	OrbPeriod d	Ephemeris	WType	Primary
P	010	Sun	-	695990	-	1.988e+09M	-	-	-	-					25.3800	?	JPL 0	*	-
P	001	Mercury	Sol I	2439.76	2439.8	330.0987M	57.909M	46.0012M	0.205630	7.0050					58.6462	87.9520	JPL 1	P	-
P	002	Venus	Sol II	6052.3	-	4867.3058M	108.209M	107.4515M	0.007000	3.4000					243.0185	224.7020	JPL 2	P	-
P	003	Earth-Moon System	Sol III	6378.135	6356.752	6045.6263M	149.5979M	147.0996M	0.016700	0.0000					0.9973	365.2500	JPL 3	DB	-
P	399	Earth	Sol III	6378.135	6356.752	5972.1684M	149.5979M	147.0996M	0.016700	0.0000					0.9973	365.2500	JPL 13	P	EMB
P	004	Mars	Sol IV	3397.52	3376.2	641.6909M	0	206.6413M	0.000000	0.0000					1.0260	686.9620	JPL 499	P	-
P	005	Jupiter	Sol V	71492	66854	1.899e+06M	0	740.5663M	0.000000	0.0000					0.4135	11.8576yr	JPL 599	P	-
P	006	Saturn	Sol VI	60268	54364	568457.8937M	0	1353.1296M	0.000000	0.0000					0.4440	29.4201yr	JPL 699	P	-
P	007	Uranus	Sol VII	25559	24973	86818.8215M	0	2742.75M	0.000000	0.0000					0.7183	83.7481yr	JPL 799	P	-
P	008	Neptune	Sol VIII	24764	24341	102430.6249M	0	4454.8516M	0.000000	0.0000					0.6713	163.7290yr	JPL 899	P	-
P	000	SSB	-	695990	-	1.989e+09M	-	-	-	-					?	25.3800	-	DB	-
DL	SEL1	Sun-Earth L1	Earth L1	0	-	0	149.598M	-	0.016700	0.0000					0.9973	365.2500	LP 1	DL	Earth
DL	SEL2	Sun-Earth L2	Earth L2	0	-	0	149.598M	-	0.016700	0.0000					0.9973	365.2500	LP 2	DL	Earth
P	503	Ganymede	Jupiter III	2634	-	149.024M	1070000	1067860	0.002000	0.2100					7.1545	7.1546	JPL 503	W	Jupiter
P	606	Titan	Saturn VI	2575.5	-	134.52M	1221870	1186203	0.029190	0.3300					15.9454	15.9454	JPL 606	W	Saturn
P	504	Callisto	Jupiter IV	2403	-	107.518M	1.885M	1.8718M	0.007000	0.5100					16.6890	16.6890	JPL 504	W	Jupiter
P	501	Io	Jupiter I	1830	1815	89.213M	422000	420312	0.004000	0.0400					1.7691	1.7691	JPL 501	W	Jupiter
P	301	Luna	Earth I	1737.5	-	73.4579M	0	363296	0.000000	0.0000					27.3217	27.3217	JPL 10	W	Earth
P	502	Europa	Jupiter II	1565	-	48.715M	671000	664961	0.009000	0.4700					3.5512	3.5512	JPL 502	W	Jupiter
P	801	Triton	Neptune I	1353	-	21.4M	345760	345754	0.000016	157.3450					5.8769	5.8769	JPL 801	W	Neptune
P	009	Pluto	Sol (134340)	1185	1151	13.07M	0	4442.7658M	0.000000	0.0000					6.3873	248.0301yr	JPL 999	W	-
A	(136199)	Eris	Sol (136199)	1163	-	16.6M	0	5650.7383M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	556.4748yr	-	W	-
A	(136108)	Haumea	2003 EL61	980	500	4.01M	6485.672M	5257.3356M	0.189392	28.2037	121.9704	238.8692	214.0666	2017 Sep 4 0000:00	?	285.4648yr	-	W	-
P	703	Titania	Uranus III	789	-	3.47M	435910	434950	0.002200	0.1400	121.9704	238.8692	214.0666	2017 Sep 4 0000:00	8.7059	8.7059	JPL 703	W	Uranus
P	605	Rhea	Saturn V	764	-	2.3065M	527108	526580	0.001000	0.3500	121.9704	238.8692	214.0666	2017 Sep 4 0000:00	4.5175	4.5175	JPL 605	W	Saturn
P	704	Oberon	Uranus IV	761	-	2.92M	583520	583053	0.000800	0.1000	121.9704	238.8692	214.0666	2017 Sep 4 0000:00	13.4632	13.4632	JPL 704	W	Uranus
A	(136472)	Makemake	2005 FY9	740?	-	2M?	6838.2948M	5780.1829M	0.154733	28.9867	79.5861	295.9466	161.0541	2017 Sep 4 0000:00	?	309.0593yr	-	W	-
P	608	Iapetus	Saturn VIII	718	-	1.88M	3.5613M	3.4606M	0.028280	14.7200	79.5861	295.9466	161.0541	2017 Sep 4 0000:00	79.3302	79.3302	JPL 608	W	Saturn
A	(225088)	Gonggong	2007 OR10	625	-	1500000?	0	4963.5595M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	550.2203yr	-	W	-
P	901	Charon	Pluto I	604	-	1.53M	19571	19422	0.007600	96.1600	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	6.3872	6.3872	JPL 901	W	Pluto
P	702	Umbriel	Uranus II	585	-	1270000	266300	264968	0.005000	0.3600	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	4.1442	4.1442	JPL 702	W	Uranus
P	701	Ariel	Uranus I	581	578	1340000	191020	190370	0.003400	0.3000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	2.5204	2.5204	JPL 701	W	Uranus
P	604	Dione	Saturn IV	561	-	1095452	377396	376554	0.002230	0.0200	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	2.7369	2.7369	JPL 604	W	Saturn
A	(50000)	Quaoar	2002 LM60	555	-	1227200?	6517.0855M	6278.3268M	0.036636	7.9867	188.7602	149.0125	295.9123	2017 Sep 4 0000:00	?	287.5413yr	-	W	-
P	603	Tethys	Saturn III	532	526	617449	294619	294619	0.000000	1.8600	188.7602	149.0125	295.9123	2017 Sep 4 0000:00	1.8878	1.8878	JPL 603	W	Saturn
A	(90377)	Sedna	2003 VB12	520	-	3M?	72809.0478M	11378.2995M	0.843724	11.9290	144.4580	311.5942	358.0209	2017 Sep 4 0000:00	?	10737.3748yr	-	W	-
A	(90482)	Orcus	2004 DW	460	-	632000	5893.729M	4596.5175M	0.220100	20.5824	268.7158	72.3922	177.7297	2017 Sep 4 0000:00	?	246.7800yr	-	W	-
A	(1)	Ceres	Sol (1)	482	446	941063	413.9986M	382.6972M	0.075607	10.5932	80.3089	73.0237	309.4941	2017 Sep 4 0000:00	0.3780	1681.5452	-	W	-
A	(307261)	2002 MS4	2002 MS4	480	-	254600?	6264.4227M	5381.8978M	0.140879	17.6679	215.9036	214.6452	219.3359	2017 Sep 4 0000:00	?	270.9828yr	-	W	-
A	(120347)	Salacia	2004 SB60	460	-	110300?	6269.8638M	5581.0027M	0.109869	23.9270	279.9973	309.0648	122.7643	2017 Sep 4 0000:00	?	271.9000yr	-	W	-
A	(55565)	2002 AW197	2002 AW197	384	-	521900?	7092.0878M	6153.3082M	0.132370	24.3955	297.5099	294.5304	294.5828	2017 Sep 4 0000:00	?	325.3400yr	-	W	-
A	(20000)	Varuna	2000 WR106	378	-	298200?	6425.1036M	6094.8937M	0.051394	17.1972	97.3349	266.3379	111.7965	2017 Sep 4 0000:00	?	280.9900yr	-	W	-
A	(532037)	2013 FY27	2013 FY27	360	-	270000?	8807.0643M	5367.3693M	0.390561	33.0037	187.1588	139.6551	210.8582	2017 Sep 4 0000:00	?	455.0000yr	-	W	-
A	(208996)	2003 AZ84	2003 AZ84	360?	-	234500?	5910.3577M	4845.459M	0.180175	13.5885	252.1602	14.2264	231.3302	2017 Sep 4 0000:00	?	247.8200yr	-	W	-
A	(174567)	Varda	2003 MW12	352?	-	244000	0	5918.0746M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	311.3900yr	-	W	-
A	(90568)	2004 GV9	2004 GV9	351	-	197600?	6321.8832M	5802.7314M	0.082120	21.9360	250.6595	295.0407	35.0769	2017 Sep 4 0000:00	?	274.4400yr	-	W	-
AP	2017 OF201	2017 OF201	2017 OF201	350	-	200000?	6717M	244000M	0.946400	16.2051	328.5915	337.7309	0.0000	2014 Oct 2 0000:00	?	24256.0000yr	-	W	-
A	(145452)	2005 RN43	2005 RN43	340?	-	254600?	6201.4901M	6073.1701M	0.020692	19.3123	186.9260	168.0840	347.0966	2017 Sep 4 0000:00	?	267.6700yr	-	W	-
A	(202421)	2005 UQ513	Sol (202421)	336	-	400000?	6454.8517M	5486.9635M	0.149947	25.7176	307.7368	222.8203	224.9772	2017 Sep 4 0000:00	?	283.4324yr	-	W	-
A	(55637)	2002 UX25	2002 UX25	332	-	346400?	6356.0252M	5458.1445M	0.141264	19.4838	204.6755	279.0035	295.7059	2017 Sep 4 0000:00	?	277.3900yr	-	W	-
A	(543354)	2014 AN55	Sol (543354)	330?	-	180000?	8365.5898M	5124.7419M	0.387402	9.4371	283.9431	307.6274	317.0530	2020 May 31 0000:00	?	418.1816yr	-	-	Sol
AP	2018 VG18	2018 VG18	2018 VG18	328	-	400000?	12179.4775M	5653.264M	0.535837	24.4041	245.3635	17.1704	156.8462	2020 May 31 0000:00	?	734.6205yr	-	-	Sol
A	(523692)	2014 EZ51	2014 EZ51	328	-	300000?	7845.6797M	6086.4014M	0.224235	10.2442	27.4761	330.0686	265.6591	2017 Sep 4 0000:00	?	379.8096yr	-	W	-
A	(229762)	G!kun'homdima	Sol (229762)	321	-	520000?	0	5605.0229M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	623.9450yr	-	W	-
AP	2014 UZ224	2014 UZ224	2014 UZ224	317	-	200000?	16238.2178M	5670.5026M	0.650793	26.7859	131.0127	29.8237	320.3885	2017 Sep 4 0000:00	?	1136.4200yr	-	W	-
A	(523794)	2015 RR245	Sol (523794)	313	-	250000?	12236.4918M	5097.7384M	0.583399	7.5626	211.7208	260.5989	324.7343	2020 May 31 0000:00	?	739.7849yr	-	-	Sol
A	(28978)	Ixion	2001 KX76	308?	-	591400?	5933.3099M	4498.3205M	0.241853	19.5875	70.9963	298.8434	283.8814	2017 Sep 4 0000:00	?	249.7500yr	-	W	-
AS	(136199) 1	Dysnomia	Eris I	307	-	140000?	37350	37350	0.441673	44.2040	35.8779	151.5181	204.8809	2017 Sep 4 0000:00	?	556.4748yr	-	W	Eris
A	(19521)	Chaos	1998 WH24	306?	-	61200?	6820.148M	6126.6113M	0.101689	12.0606	50.0544	58.9872	338.5319	2017 Sep 4 0000:00	?	307.5700yr	-	W	-
AP	2010 RF43	2010 RF43	2010 RF43	306?	-	300000?	7384.5076M	5543.9324M	0.249248	30.7071	25.1888	192.0878	96.1125	2017 Sep 4 0000:00	?	346.8186yr	-	W	-
AP	2012 VP113	2012 VP113	2012 VP113	298?	-	200000?	39210.9892M	12022.2226M	0.693397	24.1089	90.6810	293.4172	3.5802	2020 May 31 0000:00	?	4243.5740yr	-	-	Sol
AP	2010 KZ39	2010 KZ39	2010 KZ39	298?	-	150000?	6807.741M	6437.8547M	0.054333	26.0534	53.1443	311.4925	262.7206	2020 May 31 0000:00	?	306.9903yr	-	-	Sol
AP	2010 JO179	2010 JO179	2010 JO179	298?	-	200000?	11786.8085M	5922.6497M	0.497519	32.0248	147.3498	10.4272	35.2138	2020 May 31 0000:00	?	699.3820yr	-	-	Sol
A	(42301)	2001 UR163	2001 UR163	292	-	149700?	7677.6611M	5488.1756M	0.285176	0.7528	301.7230	342.3606	79.2268	2017 Sep 4 0000:00	?	368.5800yr	-	W	-
AP	2015 KH162	2015 KH162	2015 KH162	292	-	230000?	9313.7526M	6222.1865M	0.331936	28.7865	200.8067	296.7152	63.4362	2017 Sep 4 0000:00	?	491.2552yr	-	W	-
A	(230965)	2004 XA192	Sol (230965)	292	-	150000?	7002.6897M	5305.5521M	0.242355	38.1767	328.5662	132.2646	1.5509	2020 May 31 0000:00	?	320.2708yr	-	-	Sol
A	(84522)	2002 TC302	2002 TC302	292?	-	234500?	8234.5195M	5832.1026M	0.291749	35.1176	23.9092	87.3861	323.0814	2017 Sep 4 0000:00	?	408.1300yr	-	W	-
A	(78799)	2002 XW93	2002 XW93	292	-	24700?	5599.012M	4198.7837M	0.250085	14.3888	46.9508	247.0808	143.0941	2017 Sep 4 0000:00	?	228.7500yr	-	A	-
A	(4)	Vesta	Sol (4)	289	229	259024	353.3169M	321.8178M	0.089152	7.1400	103.8359	150.9430	292.7103	2017 Sep 4 0000:00	0.2226	1325.6530	-	W	-
A	(2)	Pallas	Sol (2)	285	241	208606	414.8476M	319.1849M	0.230597	34.8379	173.0872	309.9915	291.6514	2017 Sep 4 0000:00	0.3250	1685.0000	-	W	-
AP	2002 XV93	-	2002 XV93	282	-	53500?	5870.8443M	5127.1164M	0.126682	13.2810	19.1724	165.4328	282.5491	2017 Sep 4 0000:00	?	245.7000yr	-	W	-
A	(145451)	2005 RM43	2005 RM43	280?	-	110300?	13418.0412M	5252.1541M	0.608575	28.7977	84.6176	318.3367	5.4414	2017 Sep 4 0000:00	?	850.0900yr	-	W	-
A	(455502)	2003 UZ413	Sol (455502)	278	-	140000?	5862.2965M	4535.4589M	0.226334	12.0516	135.8607	145.6586	114.3104	2020 May 31 0000:00	?	245.3137yr	-	-	Sol
AP	2006 QH181	2006 QH181	2006 QH181	278	-	140000?	9999.9514M	5621.9897M	0.437798	19.2058	73.8192	210.3077	106.4419	2020 May 31 0000:00	?	546.5337yr	-	-	Sol
A	(523639)	2010 RE64	Sol (523639)	272?	-	110000?	9860.468M	5466.6149M	0.445603	13.5454	67.3491	20.0718	322.1132	2020 May 31 0000:00	?	535.1387yr	-	-	Sol
A	(528381)	2008 ST291	Sol (528381)	272	-	110000?	15044.5823M	6344.1379M	0.578311	20.7354	330.9043	325.0767	23.4234	2020 May 31 0000:00	?	1008.5334yr	-	-	Sol
A	(470443)	2007 XV50	Sol (470443)	272	-	110000?	6845.9979M	6365.1836M	0.070233	22.9046	53.6144	271.1104	107.6404	2020 May 31 0000:00	?	309.5817yr	-	-	Sol
A	(482824)	2013 XC26	Sol (482824)	272	-	110000?	6303.2525M	4876.2705M	0.226388	18.6506	43.3469	148.2846	314.0138	2020 May 31 0000:00	?	273.5062yr	-	-	Sol
A	(523759)	2014 WK509	Sol (523759)	272?	-	110000?	7597.6356M	6021.3109M	0.207476	14.5124	40.9779	135.3801	273.5283	2020 May 31 0000:00	?	361.9410yr	-	-	Sol
A	(523671)	2013 FZ27	Sol (523671)	272?	-	140000?	7177.2907M	5602.7345M	0.219380	14.0620	285.2413	342.7785	283.0237	2020 May 31 0000:00	?	332.3234yr	-	-	Sol
A	(120348)	2004 TY364	2004 TY364	270?	-	98900?	5787.1731M	5405.3974M	0.065969	24.8430	140.5269	1.9044	266.0881	2017 Sep 4 0000:00	?	240.9400yr	-	W	-
AP	2004 XR190	-	2004 XR190	270?	-	98900?	8585.6899M	7643.9187M	0.109691	46.7584	252.3935	284.4626	277.0638	2017 Sep 4 0000:00	?	434.5300yr	-	W	-
A	(82075)	2000 YW134	2000 YW134	265	-	53500?	8663.829M	6167.4064M	0.288143	19.8109	126.9651	316.7113	31.4649	2017 Sep 4 0000:00	?	439.2000yr	-	W	-
AP	2015 BP519	2015 BP519 (Caju)	2015 BP519	265	-	110000?	64801.7226M	5271.2961M	0.918655	54.1315	135.0481	348.2364	358.4641	2020 May 31 0000:00	?	9015.7095yr	-	-	Sol
A	(278361)	2007 JJ43	2007 JJ43	265	-	140000?	7231.0629M	6042.2292M	0.164407	12.0378	272.5539	6.4645	340.1804	2017 Sep 4 0000:00	?	330.7400yr	-	W	-
A	(470308)	2007 JH43	Sol (470308)	265	-	99000?	5934.082M	5796.6154M	0.023166	18.1219	64.5863	353.2514	194.6612	2020 May 31 0000:00	?	249.8333yr	-	-	Sol

Worlds

IDT	IDName	Name	AltName	Radius km	PolarRadius km	Mass Eg	SemiMajorAxis km	Periapsis km	Ecc	Inc deg	Node deg	Peri deg	M deg	Epoch	RotPeriod d	OrbPeriod d	Ephemeris	WType	Primary
AP	2014 WP509	2014 WP509	2014 WP509	265	-	99000?	6686.2738M	6105.4098M	0.086874	8.3516	66.7968	333.5378	55.1361	2020 May 31 0000:00	?	298.8108yr	-	-	Sol
A	(84922)	2003 VS2	2003 VS2	262?	-	149700?	5876.8426M	5451.1988M	0.072427	14.7970	302.7094	112.8663	19.3684	2017 Sep 4 0000:00	?	246.1300yr	-	W	-
AP	2002 KW14	-	2002 KW14	260?	-	88300?	7039.5379M	5588.5737M	0.206116	9.7406	59.8163	124.3484	48.8808	2017 Sep 4 0000:00	?	323.1400yr	-	W	-
AP	2013 AT183	2013 AT183	2013 AT183	259	-	61000?	9211.9857M	5310.6582M	0.423506	28.1574	304.5939	68.1185	69.6599	2020 May 31 0000:00	?	483.2256yr	-	-	Sol
AP	2014 FC69	2014 FC69	2014 FC69	259	-	79000?	10860.3083M	6029.0708M	0.444853	29.9630	250.3413	189.6810	89.7191	2020 May 31 0000:00	?	618.5621yr	-	-	Sol
A	(499514)	2010 OO127	Sol (499514)	259	-	88000?	6344.7322M	5545.9583M	0.125896	25.9007	219.7824	245.2970	245.1126	2020 May 31 0000:00	?	276.2104yr	-	-	Sol
AP	2014 YA50	2014 YA50	2014 YA50	259	-	88000?	6935.8721M	5743.4597M	0.171920	23.8653	45.4120	195.4824	311.4565	2020 May 31 0000:00	?	315.6979yr	-	-	Sol
AP	2017 OF69	2017 OF69	2017 OF69	259	-	99000?	5940.2382M	4708.5964M	0.207339	13.6550	218.6073	214.6887	253.3599	2020 May 31 0000:00	?	250.2222yr	-	-	Sol
P	602	Enceladus	Saturn II	256	245	108022	237948	236872	0.004520	0.0000	218.6073	214.6887	253.3599	2020 May 31 0000:00	1.3702	1.3702	JPL 602	W	Saturn
A	(470599)	2008 OG19	Sol (470599)	253	-	79000?	10117.5519M	5772.3011M	0.429476	13.1280	164.1232	140.7594	4.2276	2020 May 31 0000:00	?	556.2029yr	-	-	Sol
AP	2014 FC72	2014 FC72	2014 FC72	253	-	79000?	11331.8794M	7728.3418M	0.318000	29.8979	178.0395	33.2576	357.7278	2020 May 31 0000:00	?	659.2847yr	-	-	Sol
AP	2014 HA200	2014 HA200	2014 HA200	253	-	79000?	8400.885M	5492.5684M	0.346192	10.3904	171.1669	138.1240	317.0673	2020 May 31 0000:00	?	420.8309yr	-	-	Sol
A	(119979)	2002 WC19	Sol (119979)	253	-	79000?	7110.6478M	5275.1976M	0.258127	9.2049	109.6719	45.3870	319.4714	2020 May 31 0000:00	?	327.7056yr	-	-	Sol
A	(315530)	2008 AP129	Sol (315530)	253	-	79000?	6215.0429M	5371.4068M	0.135741	27.4192	14.8747	56.2829	53.9550	2020 May 31 0000:00	?	267.7850yr	-	-	Sol
A	(472271)	2014 UM33	Sol (472271)	253	-	79000?	6425.9352M	5448.6211M	0.152089	17.4059	236.5716	268.6942	274.1449	2020 May 31 0000:00	?	281.5299yr	-	-	Sol
A	(523681)	2014 BV64	Sol (523681)	253	-	79000?	6824.4584M	5817.6931M	0.147523	15.4623	279.3764	348.3275	264.2653	2020 May 31 0000:00	?	308.1218yr	-	-	Sol
AP	2010 FX86	2010 FX86	2010 FX86	253	-	79000?	7034.3363M	6580.571M	0.064507	25.1667	311.1347	350.2413	294.0431	2020 May 31 0000:00	?	322.4444yr	-	-	Sol
AP	2015 BZ518	2015 BZ518	2015 BZ518	253	-	79000?	7060.9123M	5742.3618M	0.186739	11.3754	43.9916	297.4612	272.8037	2020 May 31 0000:00	?	324.2734yr	-	-	Sol
A	(48639)	1995 TL8	1995 TL8	247	-	29300?	7813.0809M	5979.3406M	0.234701	0.2478	260.2771	83.5842	44.8099	2017 Sep 4 0000:00	?	377.8800yr	-	A	-
A	(307982)	2004 PG115	Sol (307982)	247	-	61000?	13784.0187M	5445.859M	0.604915	16.2835	230.3653	75.8868	6.9081	2020 May 31 0000:00	?	884.4715yr	-	-	Sol
A	(445473)	2010 VZ98	Sol (445473)	247	-	61000?	22684.6754M	5140.7376M	0.773383	4.5137	117.3101	313.6257	358.5792	2020 May 31 0000:00	?	1867.3208yr	-	-	Sol
A	(495603)	2015 AM281	Sol (495603)	247	-	69000?	8219.6045M	6187.4059M	0.247238	26.7367	22.0522	158.3924	336.0529	2020 May 31 0000:00	?	407.2832yr	-	-	Sol
A	(523635)	2010 DN93	Sol (523635)	247	-	69000?	8236.1331M	6731.1082M	0.182734	40.5976	91.3027	31.3696	43.2770	2020 May 31 0000:00	?	408.5123yr	-	-	Sol
A	(444030)	2004 NT33	Sol (444030)	247	-	79000?	6550.1045M	5528.7474M	0.155930	31.2292	240.9004	39.6561	42.9168	2020 May 31 0000:00	?	289.7293yr	-	-	Sol
A	(523742)	2014 TZ85	Sol (523742)	247	-	69000?	6504.2171M	4820.8613M	0.258810	14.9553	336.9067	333.4033	156.6534	2020 May 31 0000:00	?	286.6901yr	-	-	Sol
A	(26181)	1996 GQ21	Sol (26181)	242	-	79000?	14090.0501M	5740.409M	0.592591	13.3517	194.1964	357.0763	11.9440	2020 May 31 0000:00	?	914.0899yr	-	-	Sol
AP	2013 FS28	2013 FS28	2013 FS28	241	-	61000?	29553.4852M	5111.8309M	0.827031	13.0568	204.6489	102.0105	348.2102	2020 May 31 0000:00	?	2776.7267yr	-	-	Sol
AP	2017 FO161	2017 FO161	2017 FO161	241	-	140000?	8939.6029M	5096.8896M	0.429853	54.3505	164.9847	151.0426	240.9005	2020 May 31 0000:00	?	461.9526yr	-	-	Sol
A	(175113)	2004 PF115	Sol (175113)	241	-	140000?	5860.7506M	5495.7531M	0.062278	13.3464	84.4562	87.1340	168.9243	2020 May 31 0000:00	?	245.2166yr	-	-	Sol
P	705	Miranda	Uranus V	240	233	75000	129390	125896	0.027000	4.2000	84.4562	87.1340	168.9243	2020 May 31 0000:00	1.4135	1.4135	JPL 705	W	Uranus
A	(471143)	Dziewanna	Sol (471143)	238	-	230000?	10520.7295M	4861.2451M	0.537937	29.4773	346.2748	284.5338	348.7678	2020 May 31 0000:00	?	589.7784yr	-	-	Sol
A	(26375)	1999 DE9	Sol (26375)	237	-	69000?	8262.5109M	4835.014M	0.414825	7.6354	323.1200	159.4435	30.0761	2020 May 31 0000:00	?	410.4764yr	-	-	Sol
AS	(90482) 1	Vanth	Orcus I	237	-	87000	9030	8966	0.007000	0.0000	323.1200	159.4435	30.0761	2020 May 31 0000:00	?	?	-	W	Orcus
A	(35671)	1998 SN165	Sol (35671)	237	-	25000?	5674.5794M	5444.9422M	0.040468	4.6060	192.0925	261.6288	296.1751	2020 May 31 0000:00	?	233.6257yr	-	-	Sol
AP	2003 UA414	2003 UA414	2003 UA414	236	-	54000?	12373.2713M	5459.9893M	0.558727	22.3790	211.0173	101.4295	21.0448	2020 May 31 0000:00	?	752.2235yr	-	-	Sol
AP	2011 WJ157	2011 WJ157	2011 WJ157	236	-	54000?	14592.9276M	5596.3542M	0.616502	27.1460	76.5180	58.8786	354.1112	2020 May 31 0000:00	?	963.4601yr	-	-	Sol
A	(308379)	2005 RS43	Sol (308379)	236	-	54000?	7165.8351M	5718.3443M	0.201999	10.0143	46.4191	266.9974	55.7913	2020 May 31 0000:00	?	331.5281yr	-	-	Sol
A	(523645)	2010 VK201	Sol (523645)	236	-	54000?	6446.4549M	5701.2615M	0.115597	28.8386	156.3084	89.6216	171.3363	2020 May 31 0000:00	?	282.8795yr	-	-	Sol
A	(523693)	2014 FT71	Sol (523693)	236	-	54000?	6525.1391M	5585.9738M	0.143930	27.9657	346.5046	350.1523	239.0672	2020 May 31 0000:00	?	288.0745yr	-	-	Sol
A	(523750)	2014 US224	Sol (523750)	236	-	54000?	6977.0177M	6190.4274M	0.112740	11.0381	317.8916	177.9420	284.2413	2020 May 31 0000:00	?	318.5113yr	-	-	Sol
A	(307616)	2003 QW90	Sol (307616)	236	-	54000?	6556.8912M	6075.5052M	0.073417	10.3511	17.7557	85.5962	284.3939	2020 May 31 0000:00	?	290.1797yr	-	-	Sol
A	(469306)	1999 CD158	Sol (469306)	235	-	54000?	6505.5634M	5545.408M	0.147590	25.5542	119.0880	145.9935	251.2175	2020 May 31 0000:00	?	286.7791yr	-	-	Sol
AP	2014 BZ57	2014 BZ57	2014 BZ57	235	-	54000?	6379.8544M	5504.2755M	0.137241	27.0536	274.5807	265.4738	339.0746	2020 May 31 0000:00	?	278.5071yr	-	-	Sol
A	(543454)	2014 HZ199	Sol (543454)	235	-	54000?	6470.0604M	5476.6247M	0.153543	27.8348	57.1005	85.2708	66.2918	2020 May 31 0000:00	?	284.4347yr	-	-	Sol
AP	2015 AJ281	2015 AJ281	2015 AJ281	235	-	54000?	6462.4277M	5619.4214M	0.130447	26.8053	256.1298	8.2392	284.5785	2020 May 31 0000:00	?	283.9315yr	-	-	Sol
A	(145480)	2005 TB190	Sol (145480)	234	-	110000?	11429.3631M	6911.0147M	0.395328	26.4536	180.4466	170.9955	2.0714	2020 May 31 0000:00	?	667.8103yr	-	-	Sol
A	(119951)	2002 KX14	2002 KX14	234	-	110300?	5835.898M	5589.4918M	0.042223	0.4004	286.9497	66.2815	268.9891	2017 Sep 4 0000:00	?	243.7400yr	-	W	-
A	(120132)	2003 FY128	Sol (120132)	233	-	88000?	7399.1665M	5555.2432M	0.249207	11.7949	341.8736	175.1480	33.1733	2020 May 31 0000:00	?	347.8518yr	-	-	Sol
A	(38628)	Huya	2000 EB173	233	-	78500?	5953.1586M	4268.9618M	0.282908	15.4655	169.2510	67.8917	3.6926	2017 Sep 4 0000:00	?	250.8000yr	-	W	-
A	(471137)	2010 ET65	Sol (471137)	230	-	47000?	9305.3171M	5929.5695M	0.362776	30.6224	189.5860	354.6212	4.6937	2020 May 31 0000:00	?	490.5879yr	-	-	Sol
AP	2014 OJ394	2014 OJ394	2014 OJ394	230	-	47000?	7937.7686M	6134.6513M	0.227157	34.6291	299.2857	272.4766	56.5947	2020 May 31 0000:00	?	386.5162yr	-	-	Sol
A	(471288)	2011 GM27	Sol (471288)	230	-	54000?	6527.833M	6363.5973M	0.025159	13.0204	257.3193	201.4597	90.2032	2020 May 31 0000:00	?	288.2529yr	-	-	Sol
A	(523653)	2011 OA60	Sol (523653)	230	-	47000?	6161.8194M	5252.0329M	0.147649	23.0046	129.4559	142.6032	24.8285	2020 May 31 0000:00	?	264.3526yr	-	-	Sol
A	(523752)	2014 VU37	Sol (523752)	230	-	47000?	6072.8852M	5788.2399M	0.046872	28.6655	248.1650	342.1327	202.8493	2020 May 31 0000:00	?	258.6501yr	-	-	Sol
AP	2014 JP80	2014 JP80	2014 JP80	230	-	54000?	5940.8424M	5536.7101M	0.068026	19.3409	146.2894	318.9354	208.0107	2020 May 31 0000:00	?	250.2604yr	-	-	Sol
AP	2014 JR80	2014 JR80	2014 JR80	230	-	47000?	5931.5132M	5404.5403M	0.088843	15.3395	119.1588	294.8119	254.2646	2020 May 31 0000:00	?	249.6711yr	-	-	Sol
AP	2014 XY40	2014 XY40	2014 XY40	230	-	47000?	7076.448M	6048.9881M	0.145194	29.0175	132.5963	38.5175	211.6678	2020 May 31 0000:00	?	325.3442yr	-	-	Sol
AP	2003 QX113	2003 QX113	2003 QX113	230	-	47000?	7463.635M	5610.9511M	0.248228	6.7362	158.0687	26.4754	139.7912	2020 May 31 0000:00	?	352.4079yr	-	-	Sol
A	(471165)	2010 HE79	Sol (471165)	230	-	47000?	5857.8128M	4808.9052M	0.179061	15.6871	238.6881	283.8809	65.7567	2020 May 31 0000:00	?	245.0323yr	-	-	Sol
A	(84719)	2002 VR128	Sol (84719)	230	-	61000?	5891.2881M	4316.6622M	0.267280	14.0092	23.0577	287.9777	79.2524	2020 May 31 0000:00	?	247.1357yr	-	-	Sol
AP	2015 AH281	2015 AH281	2015 AH281	230	-	47000?	6483.427M	5211.0616M	0.196249	7.9899	286.4656	358.5476	178.8741	2014 Dec 29 0000:00	?	285.3166yr	-	-	Sol
AP	2003 QX111	2003 QX111	2003 QX111	227	-	2800?	5894.7635M	5097.179M	0.135304	9.5179	157.4147	102.1876	105.1324	2020 May 31 0000:00	?	247.3544yr	-	-	Sol
AP	2010 ER65	2010 ER65	2010 ER65	225	-	47000?	14674.3049M	5990.3609M	0.591779	21.2405	212.6453	324.2137	5.0857	2020 May 31 0000:00	?	971.5304yr	-	-	Sol
AP	2014 SV349	2014 SV349	2014 SV349	225	-	47000?	9201.1756M	5237.1527M	0.430817	17.7851	56.5263	24.1312	295.8020	2020 May 31 0000:00	?	482.3753yr	-	-	Sol
A	(471318)	2011 JF31	Sol (471318)	225?	-	40000?	6222.1128M	5414.0669M	0.129867	27.6720	236.8087	253.2262	92.8221	2020 May 31 0000:00	?	268.2421yr	-	-	Sol
A	(471921)	2013 FC28	Sol (471921)	225?	-	40000?	6859.5132M	6284.6345M	0.083807	16.3090	193.1609	99.5975	255.7010	2020 May 31 0000:00	?	310.4989yr	-	-	Sol
A	(495613)	2015 FG345	Sol (495613)	225?	-	40000?	6314.8616M	5492.9672M	0.130152	36.0018	58.7001	223.8119	299.6134	2020 May 31 0000:00	?	274.2621yr	-	-	Sol
A	(523640)	2010 RO64	Sol (523640)	225?	-	40000?	7026.9252M	6155.9371M	0.123950	17.0677	60.7845	311.4577	7.7382	2020 May 31 0000:00	?	321.9349yr	-	-	Sol
A	(523757)	2014 WH509	Sol (523757)	225?	-	40000?	6565.4102M	5399.4689M	0.177589	18.1875	76.5111	319.9996	71.6315	2020 May 31 0000:00	?	290.7454yr	-	-	Sol
A	(523772)	2014 XR40	Sol (523772)	225?	-	40000?	6415.9519M	5483.7551M	0.145294	24.8742	3.1265	281.7024	268.8412	2020 May 31 0000:00	?	280.8741yr	-	-	Sol
A	(523780)	2015 AN281	Sol (523780)	225?	-	40000?	6259.6244M	5354.2993M	0.144629	17.4631	53.3151	227.7370	266.2603	2020 May 31 0000:00	?	270.6715yr	-	-	Sol
AP	2005 CA79	2005 CA79	2005 CA79	225?	-	40000?	7104.8289M	5551.0135M	0.218698	11.6682	50.2194	69.2542	19.0951	2020 May 31 0000:00	?	327.3034yr	-	-	Sol
AP	2010 RF188	2010 RF188	2010 RF188	225?	-	40000?	7000.6356M	4962.1142M	0.291191	13.8311	178.2771	332.8748	248.1185	2020 May 31 0000:00	?	320.1299yr	-	-	Sol
AP	2012 VB116	2012 VB116	2012 VB116	225?	-	40000?	7001.5786M	5880.037M	0.160184	23.2289	193.5176	1.1031	272.9701	2020 May 31 0000:00	?	320.1946yr	-	-	Sol
A	(532093)	2013 HV156	Sol (532093)	225?	-	40000?	7139.5066M	5865.9614M	0.178380	18.1354	168.7337	181.6041	282.0168	2020 May 31 0000:00	?	329.7026yr	-	-	Sol
AP	2013 JW63	2013 JW63	2013 JW63	225?	-	54000?	6876.8036M	6151.2093M	0.105513	7.7253	309.6472	11.7173	298.4271	2020 May 31 0000:00	?	311.6736yr	-	-	Sol
AP	2014 AM55	2014 AM55	2014 AM55	225?	-	40000?	7015.6868M	6020.8975M	0.141795	7.1911	131.8447	114.1604	269.0193	2020 May 31 0000:00	?	321.1629yr	-	-	Sol
AP	2014 QW441	2014 QW441	2014 QW441	225?	-	40000?	6649.5518M	5945.1209M	0.105937	28.7612	162.6808	202.3377	1.1156	2020 May 31 0000:00	?	296.3525yr	-	-	Sol
AP	2000 CN105	-	2000 CN105	220?	-	53500?	6691.9271M	6070.8052M	0.092817	3.4108	28.9627	10.4011	120.5644	2017 Sep 4 0000:00	?	298.3600yr	-	W	-
A	(10)	Hygiea	Sol (10)	215	-	29000?	469.7191M	416.786M	0.112691	3.8320	283.2183	312.0385	46.1923	2017 Sep 4 0000:00	?	2032.2056	-	W	-
P	808	Proteus	Neptune VIII	212	198	44000	117647	117584	0.000530	0.5240	283.2183	312.0385	46.1923	2017 Sep 4 0000:00	1.1223	1.1223	JPL 808	W	Neptune
A	(469372)	2001 QF298	Sol (469372)	210	-	40000?	5906.2362M	5259.0456M	0.109577	22.3126	164.1262	44.1413	157.4239	2020 May 31 0000:00	?	248.0769yr	-	-	Sol
A	(303775)	2005 QU182	Sol (303775)	210	-	350000?	16987.2456M	5514.0786M	0.675399	14.0459	78.2861	224.2128	14.4976	2020 May 31 0000:00	?	1210.0534yr	-	-	Sol
AP	2002 CY248	-	2002 CY248	210?	-	46600?	6929.164M	5913.8398M	0.146529	7.0421	300.7276	336.3637	233.2880	2017 Sep 4 0000:00	?	313.8300yr	-	W	-
A	(144897)	2004 UX10	Sol (144897)	204	-	110000?	5828.8783M	5568.9488M	0.044593	9.5289	147.8328	152.4653	100.5222	2020 May 31 0000:00	?	243.2190yr	-	-	Sol
A	(47171)	Lempo	Sol (47171)	201	-	7000?	5864.9991M	4570.5721M	0.220704	8.4197	97.0610	294.9370	3.4881	2017 Sep 4 0000:00	?	245.4833yr	-	A	-

Worlds

IDT	IDName	Name	AltName	Radius km	PolarRadius km	Mass Eg	SemiMajorAxis km	Periapsis km	Ecc	Inc deg	Node deg	Peri deg	M deg	Epoch	RotPeriod d	OrbPeriod d	Ephemeris	WType	Primary
AP	2003 UZ117	-	2003 UZ117	200?	-	40200?	6589.715M	5733.3117M	0.129961	27.4724	204.7219	247.4544	339.9250	2017 Sep 4 0000:00	?	292.2700yr	-	W	-
P	601	Mimas	Saturn I	198	191	37493	185539	181791	0.020200	1.5300	204.7219	247.4544	339.9250	2017 Sep 4 0000:00	0.9424	0.9424	JPL 601	M	Saturn
AP	2003 QN91	2003 QM91	2003 QM91	190?	-	34500?	6344.3397M	5664.8153M	0.107107	4.3372	18.7921	303.3332	29.7956	2017 Sep 4 0000:00	?	304.3600yr	-	A	-
AP	2003 QA91	-	2003 QA91	190?	-	34500?	6625.8335M	6183.8202M	0.066711	2.4144	104.6682	332.6275	272.7538	2017 Sep 4 0000:00	?	295.1800yr	-	A	-
AP	2002 PJ149	-	2002 PJ149	190?	-	34500?	6785.9607M	6268.8596M	0.076202	9.6612	316.4021	193.4356	180.6496	2002 Jul 25 0000:00	?	305.5100yr	-	A	-
AP	2002 GV31	-	2002 GV31	190?	-	34500?	6626.9099M	5984.3495M	0.096962	2.1806	59.2187	130.7603	349.1393	2017 Sep 4 0000:00	?	284.4700yr	-	A	-
AP	2001 KA77	-	2001 KA77	190?	-	34500?	7130.8441M	6479.4458M	0.091349	11.8836	239.0708	121.0382	276.0735	2017 Sep 4 0000:00	?	329.3100yr	-	A	-
P	607	Hyperion	Saturn VII	180	113	5619.9	1481009	1326984	0.104000	0.4300	239.0708	121.0382	276.0735	2017 Sep 4 0000:00	?	21.2766	JPL 607	M	Saturn
A	(15874)	1996 TL66	1996 TL66	180?	-	29300?	12375.5292M	5240.1579M	0.576571	24.0206	217.8482	184.4873	7.7875	2017 Sep 4 0000:00	?	752.7400yr	-	A	-
A	(126154)	2001 YH140	2001 YH140	180?	-	29300?	6342.0162M	5450.186M	0.140623	11.0857	108.8752	356.3665	21.9227	2017 Sep 4 0000:00	?	275.2200yr	-	A	-
A	(148780)	Altjira	2001 UQ18	180?	-	29300?	6592.0682M	6175.7204M	0.063159	5.2035	1.9553	295.6912	128.2622	2017 Sep 4 0000:00	?	292.5700yr	-	A	-
AP	2001 QY297	-	2001 QY297	180?	-	29300?	6559.0033M	5996.4638M	0.085766	1.5481	108.7722	125.7464	84.1347	2017 Sep 4 0000:00	?	291.1000yr	-	A	-
AP	2001 QS322	-	2001 QS322	180?	-	29300?	6559.3507M	6324.3502M	0.035827	0.2452	348.2143	354.9300	24.7372	2017 Sep 4 0000:00	?	291.2900yr	-	A	-
AP	2001 QS297	-	2001 QS297	180?	-	29300?	6551.9705M	6551.9705M	0.000000	5.2255	309.8012	13.8817	0.0000	2001 Aug 19 0000:00	?	289.8500yr	-	A	-
AP	2000 CO105	-	2000 CO105	180?	-	29300?	7045.8382M	6030.4456M	0.144112	19.2765	307.2678	55.3784	121.3026	2017 Sep 4 0000:00	?	322.5600yr	-	A	-
A	(79360)	Sila-Nunam	Sol (79360)	176	-	40000?	6527.9436M	6472.4548M	0.008500	2.2572	304.4599	257.2045	302.6051	2020 May 31 0000:00	?	288.2602yr	-	-	Sol
P	802	Nereid	Neptune II	170	-	31000?	5.5134M	1371733	0.483080	27.6000	304.4599	257.2045	302.6051	2020 May 31 0000:00	?	360.1362	JPL 802	M	Neptune
A	(88611)	Teharonhiawako	2001 QT297	170?	-	24700?	6573.3251M	6374.315M	0.030275	2.5767	304.6666	241.0414	155.7800	2017 Sep 4 0000:00	?	292.1500yr	-	A	-
AP	2006 HJ123	-	2006 HJ123	170?	-	24700?	5941.1774M	4137.5898M	0.303574	12.4192	222.5121	101.0869	312.0817	2017 Sep 4 0000:00	?	283.8600yr	-	A	-
AP	2002 XH91	-	2002 XH91	170?	-	24700?	6570.3264M	5974.0739M	0.090749	4.9982	80.5335	184.6076	216.4700	2017 Sep 4 0000:00	?	290.5500yr	-	A	-
AP	2002 GJ32	-	2002 GJ32	170?	-	24700?	6666.0635M	5934.6257M	0.109726	11.5792	244.8537	257.5893	81.3390	2017 Sep 4 0000:00	?	296.9700yr	-	A	-
AP	2001 XD255	-	2001 XD255	170?	-	24700?	5902.6315M	5236.9357M	0.112780	18.1149	106.7040	109.8576	284.4015	2017 Sep 4 0000:00	?	248.3000yr	-	A	-
A	(511)	Davida	Sol (511)	169	-	24000?	473.2038M	384.1759M	0.188139	15.9400	107.6071	337.5927	228.7668	2017 Sep 4 0000:00	0.2140	2068.0000	-	A	-
A	(704)	Interamnia	Sol (704)	167	-	23000?	457.553M	386.8669M	0.154487	17.3063	280.2920	95.1204	349.9235	2017 Sep 4 0000:00	0.3640	1956.0000	-	A	-
A	(143707)	2003 UY117	Sol (143707)	166	0	21000?	8247.8003M	4854.7435M	0.411389	7.5483	265.1423	112.2118	11.4952	2017 Sep 4 0000:00	0.5167	409.3806yr	-	A	-
AS	(174567) 1	Ilmare	Varda I	163?	-	22000	6900M	5947.8M	0.138000	21.5000	265.1423	112.2118	11.4952	2017 Sep 4 0000:00	?	311.3900yr	-	AS	Varda
AP	2006 HX122	-	2006 HX122	160?	-	20600?	10483.0983M	5455.2607M	0.479614	12.8225	250.5434	258.8232	40.6495	2017 Sep 4 0000:00	?	314.2200yr	-	A	-
AP	2005 XU100	-	2005 XU100	160?	-	20600?	6510.4932M	5847.3233M	0.101862	7.8654	318.4429	103.3850	76.1498	2017 Sep 4 0000:00	?	298.7800yr	-	A	-
AP	2005 JR179	-	2005 JR179	160?	-	20600?	7067.3438M	6247.3962M	0.116019	3.7382	71.1528	63.9670	76.9742	2017 Sep 4 0000:00	?	324.5000yr	-	A	-
AP	2005 JA175	-	2005 JA175	160?	-	20600?	6390.2583M	5749.5435M	0.100264	14.2149	225.0669	196.4830	169.7529	2017 Sep 4 0000:00	?	283.6900yr	-	A	-
AP	2004 PT107	-	2004 PT107	160?	-	20600?	6060.3997M	5716.5502M	0.056737	26.1321	320.9327	17.3374	357.2121	2017 Sep 4 0000:00	?	258.6300yr	-	A	-
AP	2003 UB292	-	2003 UB292	160?	-	20600?	7012.3807M	6592.2241M	0.059916	19.3343	28.2586	194.2714	187.1882	2017 Sep 4 0000:00	?	321.3000yr	-	A	-
AP	2003 GH55	-	2003 GH55	160?	-	20600?	6657.6338M	6087.1818M	0.085684	1.1026	116.4064	88.5845	23.0189	2017 Sep 4 0000:00	?	296.5000yr	-	A	-
AP	2002 VU130	-	2002 VU130	160?	-	20600?	5842.5797M	4605.8821M	0.211670	1.3745	267.8798	281.4314	273.8623	2017 Sep 4 0000:00	?	243.9200yr	-	A	-
AP	2002 VT130	-	2002 VT130	160?	-	20600?	6326.4688M	6118.6436M	0.032850	1.1629	334.5319	337.9666	123.2097	2017 Sep 4 0000:00	?	274.9500yr	-	A	-
AP	2002 PQ145	-	2002 PQ145	160?	-	20600?	6550.2534M	6243.9917M	0.046756	3.0832	165.7435	316.2352	206.3814	2017 Sep 4 0000:00	?	290.2500yr	-	A	-
AP	2002 GF32	-	2002 GF32	160?	-	20600?	5911.522M	4901.1743M	0.170912	2.7769	44.2923	54.9083	126.7560	2017 Sep 4 0000:00	?	248.3700yr	-	A	-
AP	2002 GD32	-	2002 GD32	160?	-	20600?	6695.7188M	5824.7102M	0.130084	6.5701	22.1255	24.9929	175.6922	2017 Sep 4 0000:00	?	299.1000yr	-	A	-
AP	2001 XR254	-	2001 XR254	160?	-	20600?	6426.5497M	6202.0414M	0.034935	1.2310	179.9899	73.1597	229.7313	2017 Sep 4 0000:00	?	281.3000yr	-	A	-
AP	2001 QX322	-	2001 QX322	160?	-	20600?	8651.1898M	5308.5024M	0.386385	28.5762	254.7804	64.8008	32.9312	2017 Sep 4 0000:00	?	465.5800yr	-	A	-
AP	2001 QW297	-	2001 QW297	160?	-	20600?	7721.4787M	5889.2722M	0.237287	17.0472	141.0196	108.0198	67.5160	2017 Sep 4 0000:00	?	371.5500yr	-	A	-
AP	2001 QD298	-	2001 QD298	160?	-	20600?	6368.4404M	5996.9865M	0.058327	5.0243	70.5384	195.5900	69.2655	2017 Sep 4 0000:00	?	278.5900yr	-	A	-
AP	2001 CZ31	-	2001 CZ31	160?	-	20600?	6791.8043M	5950.7738M	0.123830	10.2115	136.2204	47.4992	339.3261	2017 Sep 4 0000:00	?	305.2500yr	-	A	-
A	(52)	Europa	Sol (52)	156	-	19000?	462.9296M	412.0598M	0.109887	7.4768	128.6198	343.8118	128.2016	2017 Sep 4 0000:00	0.2340	1989.0000	-	A	-
AP	2015 TG387	-	2015 TG387	150?	-	17000?	163630M	9791M	0.940600	11.6570	300.8124	118.2000	359.4100	2019 Apr 27 0000:00	?	36180.0000yr	-	A	-
C	2014 UN271	Bernardinelli-Bernstein	2014 UN271	80	-	1000?	4.086e+06M	1637.9482M	0.999599	95.4606	190.0094	326.2454	0.0773	2013 Jan 21 1301:24	?	4510273.0000yr	-	A	-
AS	(229762) 1	G!oe!Hu	G!kun'homdima I	71	-	1000?	6035	6035	0.023600	43.7500	190.0094	326.2454	0.0773	2013 Jan 21 1301:24	?	11.3140	-	AS	G!kun'homd:
AP	2025 GE	-	2025 GE	55	-	500?	3273.6M	2951.4M	0.098188	39.7840	242.7870	294.2596	27.0019	2024 Jun 2 0000:00	?	102.3200yr	-	A	-
AS	(225088) 1	Xiangliu	Gonggong I	50	-	500?	24021	24021	0.290800	83.0800	242.7870	294.2596	27.0019	2024 Jun 2 0000:00	?	25.2210	-	AS	Gonggong
A	(16)	Psyche	Sol (16)	132	-	11500?	437.6794M	378.6546M	0.134858	3.0975	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.1750	1823.0000	-	A	-
P	807	Larissa	Neptune VII	108	84	4200	73548	73548	0.001393	0.2510	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.5546	0.5546	JPL 807	M	Neptune
P	609	Phoebe	Saturn IX	106.6	-	8292	12.952M	10.8375M	0.163260	177.0000	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.4000	550.4800	JPL 609	M	Saturn
P	610	Janus	Saturn X	102	76	1897.5	151460	151453	0.006800	0.1630	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.6947	0.6947	JPL 610	M	Saturn
P	806	Galatea	Neptune VI	102	72	2120	61953	61953	0.000040	0.0520	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.4287	0.4287	JPL 806	M	Neptune
P	805	Despina	Neptune V	90	64	2200	52526	52526	0.000200	0.2200	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.3347	0.3347	JPL 805	M	Neptune
P	715	Puck	Uranus XV	81	-	2900	86004	86004	0.000120	0.3192	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.7618	0.7618	JPL 715	M	Uranus
P	712	Portia	Uranus XII	78	63	1700	66097	66097	0.000050	0.0591	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.5132	0.5132	JPL 712	M	Uranus
P	711	Juliet	Uranus XI	75	37	560	64358	64358	0.000660	0.0655	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.4931	0.4931	JPL 711	M	Uranus
P	616	Prometheus	Saturn XVI	67.8	29.7	159.5	139380	139073	0.002200	0.0080	150.2630	227.5463	171.4976	2017 Sep 4 0000:00	0.6130	0.6130	JPL 616	M	Saturn
A	(21)	Lutetia	Sol (21)	66	-	2570	364.189M	304.2877M	0.164479	3.0637	80.8783	249.9885	188.6620	2017 Sep 4 0000:00	0.3402	1387.9000	-	A	-
P	611	Epimetheus	Saturn XI	65	53	526.6	151410	151262	0.009800	0.3510	80.8783	249.9885	188.6620	2017 Sep 4 0000:00	0.6943	0.6943	JPL 611	M	Saturn
A	(617)	Patroclus-Menoetius	Sol (617)	65	61	1360	780.4437M	672.5736M	0.138216	22.0475	44.3540	308.2662	153.7013	2017 Sep 4 0000:00	?	11.9161yr	-	-	-
A	(617)	Patroclus	Sol (617) P	65	61	802	0	672.5736M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	11.9161yr	-	-	-
P	714	Belinda	Uranus XIV	64	32	360	75255	75255	0.000070	0.0306	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.6235	0.6235	JPL 714	M	Uranus
AS	(617) I	Menoetius	Patroclus I	58	54	558	695	695	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	4.2800	4.2800	-	-	Patroclus
P	804	Thalassa	Neptune IV	54	26	350	50075	50075	0.000200	0.2100	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.3115	0.3115	JPL 804	M	Neptune
P	617	Pandora	Saturn XVII	52	32	137.1	141720	141125	0.004200	0.0500	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.6285	0.6285	JPL 617	M	Saturn
P	803	Naiad	Neptune III	48	26	190	48227	48227	0.000400	4.7500	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.2944	0.2944	JPL 803	M	Neptune
P	709	Cressida	Uranus IX	46	37	250	61766	61766	0.000360	0.0060	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.4636	0.4636	JPL 709	M	Uranus
P	710	Desdemona	Uranus X	45	27	180	62658	62658	0.000130	0.1125	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.4737	0.4737	JPL 710	M	Uranus
P	713	Rosalind	Uranus XIII	36	-	250	69926	69926	0.000110	0.2787	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.5585	0.5585	JPL 713	M	Uranus
A	(253)	Mathilde	Sol (253)	33	23	103.3	396.5361M	292.1675M	0.263201	6.7408	179.5798	157.4923	261.7503	2017 Sep 4 0000:00	?	1572.0000	-	A	-
A	(3548)	Eurybates	Sol (3548)	32	-	143	0	707.7337M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	11.8285yr	-	-	-
P	708	Bianca	Uranus VIII	32	23	92	59165	59165	0.000920	0.1931	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.4346	0.4346	JPL 708	M	Uranus
P	707	Ophelia	Uranus VII	27	19	53	53763	53763	0.009920	0.1036	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.3764	0.3764	JPL 707	M	Uranus
A	(243)	Ida	Sol (243)	26.8	7.6	42	428.4455M	410.7253M	0.041359	1.1300	323.9470	112.4935	118.6326	2017 Sep 4 0000:00	0.1900	1767.0000	-	A	-
A	(21900)	Orus	Sol (21900)	25.5	-	96?	767.0164M	739.6872M	0.035631	8.4684	258.5609	180.1129	187.1927	2017 Sep 4 0000:00	?	11.6099yr	-	-	-
P	706	Cordelia	Uranus VI	25	18	44	49752	49752	0.000260	0.0850	258.5609	180.1129	187.1927	2017 Sep 4 0000:00	0.3350	0.3350	JPL 706	M	Uranus
P	612	Helene	Saturn XII	21.7	13	28?	377396	376566	0.002200	0.1990	258.5609	180.1129	187.1927	2017 Sep 4 0000:00	2.7369	2.7369	JPL 612	M	Saturn
P	615	Atlas	Saturn XV	20.4	9.4	6.6	137670	137504	0.001200	0.0030	258.5609	180.1129	187.1927	2017 Sep 4 0000:00	0.6017	0.6017	JPL 615	M	Saturn
A	(11351)	Leucus	Sol (11351)	20?	-	46?	790.7745M	740.6192M	0.063425	11.5568	251.0845	161.0173	241.6804	2017 Sep 4 0000:00	?	12.1534yr	-	-	-
P	618	Pan	Saturn XVIII	17.2	10.4	4.95	133584	133584	0.000000	0.0001	251.0845	161.0173	241.6804	2017 Sep 4 0000:00	0.5750	0.5750	JPL 618	M	Saturn
A	(433)	Eros	Sol (433)	17	6	6.687	218.1047M	169.557M	0.222589	10.8276	304.3222	178.8165	71.2803	2017 Sep 4 0000:00	0.2200	642.6000	-	A	-
P	613	Telesto	Saturn XIII	16.3	10	4?	294619	294619	0.000000	1.1900	304.3222	178.8165	71.2803	2017 Sep 4 0000:00	1.8878	1.8878	JPL 613	M	Saturn
P	614	Calypso	Saturn XIV	15.1	7	2.6?	294619	294619	0.000000	1.5600	304.3222	178.8165	71.2803	2017 Sep 4 0000:00	1.8878	1.8878	JPL 614	M	Saturn
P	401	Phobos	Mars I	13.4	9.2	13	9400	9259	0.015000	1.1000	304.3222	178.8165	71.2803	2017 Sep 4 0000:00	0.3190	0.3189	JPL 401	M	Mars

Worlds

IDT	IDName	Name	AltName	Radius km	PolarRadius km	Mass Eg	SemiMajorAxis km	Periapsis km	Ecc	Inc deg	Node deg	Peri deg	M deg	Epoch	RotPeriod d	OrbPeriod d	Ephemeris	WType	Primary
A	(486958)	Arrokoth	Sol (486958)	13?	-	11?	6643.9034M	6390.4092M	0.038154	2.4530	158.9398	176.9006	311.9633	2017 Sep 4 0000:00	?	295.9750yr	-	A	-
A	(15094)	Polymele	Sol (15094) 1	0.5	10.5	6.7?	772.703M	699.785M	0.094367	12.9906	50.3235	4.7701	236.5209	2017 Sep 4 0000:00	?	11.7392yr	-	-	-
A	(951)	Gaspra	Sol (951)	9.1	4.4	5?	330.5956M	273.2698M	0.173402	4.1063	253.0566	129.9423	232.8256	2017 Sep 4 0000:00	?	1199.0000	-	A	-
C	1P/	Halley	Sol 1P/	8	4	0.22	2667.9501M	87.6611M	0.967143	58.4201	162.2627	111.3325	0.0000	1986 Feb 5 2129:15	2.2500	75.2909yr	-	CP	-
P	402	Deimos	Mars II	7.5	5.2	1.8	23500	23488	0.000500	1.8000	162.2627	111.3325	0.0000	1986 Feb 5 2129:15	1.2630	1.2624	JPL 402	M	Mars
C	9P/	Tempel 1	Sol 9P/	7.2	2.2	0.07	470.6041M	230.7626M	0.509646	68.7501	10.4738	179.2020	0.0000	2016 Aug 2 1349:36	?	2106.0000	-	CP	-
C	81P/	Wild 2	Sol 81P/	5?	-	0.1?	516.3941M	239.0533M	0.537072	136.0977	3.2372	41.7567	0.0000	2010 Feb 22 1331:54	?	2331.0000	-	CP	-
C	21P/	Giacobini-Zinner	Sol 21P/	3?	-	0.1?	525.9187M	154.19M	0.706818	195.3970	31.9081	172.5844	0.0000	2012 Feb 11 1501:21	?	2413.0000	-	CP	-
C	19P/	Borrelly	Sol 19P/	4	2.2	0.02	539.9983M	203.4231M	0.623289	75.4360	30.3131	353.3507	0.0000	2001 Sep 14 0605:13	?	3020.0000	-	CP	-
A	(2867)	Steins	Sol (2867)	3.4	2.3	2.3?	353.5957M	302.0505M	0.145774	9.9353	55.3654	251.1076	127.9525	2017 Sep 4 0000:00	?	1327.3050	-	A	-
A	(5535)	Annefrank	Sol (5535)	3.3	1.7	0.3?	330.9718M	309.9871M	0.063403	4.2473	120.6434	9.1353	23.0210	2017 Sep 4 0000:00	?	1202.0000	-	A	-
A	(4179)	Toutatis	Sol (4179)	2.4	1	0.05	379.4107M	140.6153M	0.629385	0.4474	124.4051	278.7111	68.3771	2017 Sep 4 0000:00	5.4100	1469.3000	-	A	-
C	67P/	Churyumov-Gerasimenko	Sol 67P/	2	-	0.01	518.3173M	186.2924M	0.640582	50.1801	7.0437	12.6945	0.0000	2009 Feb 28 1239:38	0.5100	2355.8625	-	CP	-
A	(52246)	Donaldjohanson	Sol (52246)	2	-	0.046?	356.6103M	290.4115M	0.185634	4.4194	262.8504	213.0231	10.6054	2017 Sep 4 0000:00	?	1344.3154	-	-	-
C	26P/	Grigg-Skjellerup	Sol 26P/	1.5	-	0.01?	451.3218M	162.3508M	0.640277	211.5376	22.4289	2.1467	0.0000	2013 Jul 6 0125:07	?	1863.0000	-	CP	-
A	(9969)	Braille	Sol (9969)	0.8	-	0.0078	350.2123M	198.4155M	0.433442	28.9987	241.9547	356.1138	16.8804	2017 Sep 4 0000:00	9.4200	1308.0000	-	A	-
A	(152830)	Dinkinesh	Sol (152830)	0.36	-	0.00047	0	290.8414M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	0.1558	1185.0617	-	-	-
A	(65803)	Didymos	Sol (65803)	0.39?	-	0.00055	0	151.5818M	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	?	770.3626	-	-	-
AS	(3548) I	Queta	Sol (3548) I	0.5	-	0.00073?	2310	2310	0.000000	0.0000	0.0000	0.0000	0.0000	2017 Sep 4 0000:00	82.6000	82.6000	-	-	Eurybates
A	(162173)	Ryugu	Sol (162173)	0.5	0.44	0.00045	177.9557M	144.0936M	0.190284	5.8839	251.5910	211.4468	154.0218	2017 Sep 4 0000:00	0.3180	473.8908	-	A	-
A	(98943)	Torifune	Sol (98943)	0.42	0.16	0.0004?	154.4675M	120.5844M	0.219354	4.8085	75.5793	179.3292	201.5887	2017 Sep 4 0000:00	0.2092	383.2356	-	-	-
C	45P/	Honda-Mrkos-Pajdusakova	Sol 45P/	0.35	-	0.0002?	452.5599M	79.6628M	0.823973	88.9817	4.2482	326.2820	0.0000	2016 Dec 31 0622:40	?	1920.0000	-	CP	-
A	(101955)	Bennu	1999 RQ36	0.255	-	0.000078	168.4455M	134.1256M	0.203745	6.0349	2.0296	66.2902	312.6367	2017 Sep 4 0000:00	?	436.6040	-	A	-
AS	(152830)I	Selam	Sol (152830) I	0.22	0.12	0.00003	3.1	3.1	0.000000	0.0000	2.0296	66.2902	312.6367	2017 Sep 4 0000:00	2.1950	2.1950	-	-	Dinkinesh
A	(25143)	Itokawa	Sol (25143)	0.2	-	0.0000358	198.0846M	142.5875M	0.280168	1.6215	69.0800	162.8112	260.7917	2017 Sep 4 0000:00	0.5040	555.6000	-	A	-
C	C/-146 P1	C/-146 P1	C/-146 P1	0.1?	-	0?	0	64.3271M	1.000000	330.0000	71.0000	261.0000	0.0000	-146 Jun 28 0000:00	?	?	-	C	Sol
AS	(65803) I	Dimorphos	Sol (65803) I	0.08	-	0.000005	1.2	1.2	0.000000	0.0000	71.0000	261.0000	0.0000	-146 Jun 28 0000:00	?	?	-	-	Didymos
AP	1998 KY26	1998 KY26	1998 KY26	0.015	-	0	184.4363M	147.2219M	0.201773	1.4810	84.3664	209.3722	359.5532	2017 Sep 4 0000:00	0.0074	500.0114	-	-	-
AP	2022 OB5	2022 OB5	2022 OB5	0.005	-	0	153M	143.7M	0.060404	2.5292	308.0662	94.0167	275.4531	2022 Aug 3 0000:00	?	377.8400	-	-	-
DL	EML1	Earth-Moon L1	Moon L1	0	-	0	66000	-	0.000000	0.0000	308.0662	94.0167	275.4531	2022 Aug 3 0000:00	?	27.3217	LP 1	DL	Luna
DL	EML2	Earth-Moon L2	Moon L2	0	-	0	66000	-	0.000000	0.0000	308.0662	94.0167	275.4531	2022 Aug 3 0000:00	?	27.3217	LP 2	DL	Luna

World_Spin

IDT	IDName	Name	Rho Mg/m**3	IFac	PoleRA deg	PoleDec deg	Meridian deg	SpinRate deg/d	J2	J4	J6	PoleRARate deg/d	PoleDecRate deg/d	PoleFunc	SpinFunc	InitFunc	JFile
P	010	Sun	1.00	0.07	286.1300	63.8700	84.1760	14.1844000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	001	Mercury	5.43	0.33	281.0103	61.4155	329.5988	6.1385108	60.00	0.00	0.00	-0.0328	-0.0049	PSTD	SMER	-	-
P	002	Venus	5.24	0.33	272.7600	67.1600	160.2000	-1.4813688	4.50	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	399	Earth	5.52	0.331	0.0000	90.0000	190.1470	360.9856235	1082.64	-1.6193	0.5396	-0.6410	-0.5570	PSTD	SSTD	-	Sys/Earth.J
P	004	Mars	3.94	0.365	317.2692	54.4325	176.0499	350.8919824	1960.50	0.00	0.00	-0.10927	-0.05827	PMARS	SMARS	MARS	-
P	005	Jupiter	1.33	0.254	268.0566	64.4953	284.9500	870.5366420	14696.40	0.00	0.00	-0.0065	0.00241	PJUP	SSTD	JUP	-
P	006	Saturn	0.70	0.21	40.5890	83.5370	38.9000	810.7939024	16290.70	0.00	0.00	-0.0360	-0.0040	PSTD	SSTD	SAT	-
P	007	Uranus	1.30	0.23	257.3110	-15.1750	203.8100	-501.1600928	3343.50	0.00	0.00	0.0000	0.0000	PSTD	SSTD	URA	-
P	008	Neptune	1.76	0.23	299.3600	43.4600	249.9780	541.1397757	3410.00	0.00	0.00	0.0000	0.0000	PNEP	SNEP	NEP	-
P	503	Ganymede	1.94	0.312	268.2000	64.5700	44.0640	50.3176081	0.00	0.00	0.00	-0.0090	0.0030	PMF	SSAT	-	-
P	606	Titan	1.88	0.341	39.4827	83.4279	186.5855	22.5769768	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	504	Callisto	1.83	0.355	268.7200	64.8300	259.5100	21.5710715	0.00	0.00	0.00	-0.0090	0.0030	PMF	SSAT	-	-
P	501	Io	3.53	0.378	268.0500	64.5000	200.3900	203.4889538	0.00	0.00	0.00	-0.0090	0.0030	PMF	SSAT	-	-
P	301	Luna	3.34	0.393	269.9949	66.5392	38.3213	13.1763582	203.35	0.00	0.00	0.0031	0.0130	PLUN	SLUN	-	-
P	502	Europa	3.01	0.346	268.0800	64.5100	36.0220	101.3747235	0.00	0.00	0.00	-0.0090	0.0030	PMF	SSAT	-	-
P	801	Triton	2.06	0.33	299.3600	41.1700	296.5300	-61.2572637	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	009	Pluto	1.88	0.31	132.9930	-6.1630	302.6950	56.3625225	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	703	Titania	1.71	0.33	257.4300	-15.1000	77.7400	-41.3514316	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	605	Rhea	1.24	0.40	40.3800	83.5500	235.1600	79.6900478	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	704	Oberon	1.63	0.33	257.4300	-15.1000	6.7700	-26.7394932	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	608	Iapetus	1.09	0.33	318.1600	75.0300	355.2000	4.5379572	0.00	0.00	0.00	-3.9490	-1.1430	PMF	SSAT	-	-
P	901	Charon	1.71	0.31	132.9930	-6.1630	122.6950	56.3625225	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	702	Umbriel	1.39	0.33	257.4300	-15.1000	108.0500	-86.8688923	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	701	Ariel	1.59	0.33	257.4300	-15.1000	156.2200	-142.8356681	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	604	Dione	1.48	0.33	40.6600	83.5200	357.6000	131.5349316	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	603	Tethys	0.99	0.33	40.6600	83.5200	8.9500	190.6979085	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
A	(1)	Ceres	2.08	0.33	291.0000	59.0000	170.9000	952.1532000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
A	(4)	Vesta	3.42	0.33	305.8000	41.4000	292.0000	1617.3327760	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
A	(2)	Pallas	3.00	0.33	33.0000	-3.0000	38.0000	1105.8036000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	602	Enceladus	1.61	0.33	40.6600	83.5200	6.3200	262.7318996	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	705	Miranda	1.20	0.33	257.4300	-15.0800	30.7000	-254.6906892	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	808	Proteus	1.30	0.33	299.2700	42.9100	93.3800	320.7654228	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	601	Mimas	1.15	0.38	40.6600	83.5200	333.4600	381.9945550	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	607	Hyperion	0.55	0.33	0.0000	90.0000	0.0000	16.9205000	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	802	Nereid	1.30	0.33	313.0000	15.8100	0.0000	745.2130400	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
A	(511)	Davida	2.97	0.33	297.0000	5.0000	268.1000	1684.4193549	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
A	(52)	Europa	1.50	0.33	257.0000	12.0000	55.0000	1534.6472187	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	807	Larissa	1.20	0.33	299.3600	43.4100	179.4100	649.0534470	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	609	Phoebe	1.64	0.33	356.9000	77.8000	178.5800	931.6390000	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	610	Janus	0.63	0.33	40.5800	83.5200	293.8700	518.4907239	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	806	Galatea	0.75	0.33	299.3600	43.4300	258.0900	839.6597686	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	805	Despina	1.20	0.33	299.3600	43.4500	306.5100	1075.7341562	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	715	Puck	1.30	0.33	257.3100	-15.1800	91.2400	-472.5450690	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	712	Portia	1.30	0.33	257.3100	-15.1800	25.0300	-701.4865870	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	711	Juliet	1.30	0.33	257.3100	-15.1800	302.5600	-730.1253660	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	616	Prometheus	0.48	0.33	40.5800	83.5300	296.1400	587.2890000	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
A	(21)	Lutetia	3.40	0.33	52.0000	12.0000	94.0000	1057.7515000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	611	Epimetheus	0.64	0.33	40.5800	83.5200	293.8700	518.4907239	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	714	Belinda	1.30	0.33	257.3100	-15.1800	297.4600	-577.3628170	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	804	Thalassa	1.20	0.33	299.3600	43.4500	102.0600	1155.7555612	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	617	Pandora	0.49	0.33	40.5800	83.5300	162.9200	572.7891000	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	803	Naiad	1.30	0.33	299.3600	43.3600	254.0600	1222.8441209	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	709	Cressida	0.86	0.33	257.3100	-15.1800	59.1600	-776.5816320	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	710	Desdemona	1.30	0.33	257.3100	-15.1800	95.0800	-760.0531690	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	713	Rosalind	1.30	0.33	257.3100	-15.1800	314.9000	-644.6311260	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	708	Bianca	1.30	0.33	257.3100	-15.1800	105.4600	-828.3914760	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	707	Ophelia	1.30	0.33	257.3100	-15.1800	130.3500	-956.4068150	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
A	(243)	Ida	2.60	0.33	168.7600	-2.8800	265.9500	1864.6280070	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	706	Cordelia	1.30	0.33	257.3100	-15.1800	127.6900	-1074.5205730	0.00	0.00	0.00	0.0000	0.0000	PMF	SSAT	-	-
P	612	Helene	1.30	0.33	40.8500	83.3400	245.1200	131.6174056	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	615	Atlas	0.46	0.33	40.5800	83.5300	137.8800	598.3060000	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	618	Pan	0.46	0.33	40.6000	83.5000	48.8000	626.0440000	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
A	(433)	Eros	2.67	0.33	11.3500	17.2200	326.0700	1639.3886475	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	613	Telesto	0.50	0.33	50.5100	84.0600	56.8800	190.6979332	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	614	Calypso	0.50	0.33	36.4100	85.0400	153.5100	190.6742373	0.00	0.00	0.00	-0.0360	-0.0040	PMF	SSAT	-	-
P	401	Phobos	1.88	0.33	317.6707	52.8863	34.9965	1128.8447592	105000.00	0.00	0.00	-0.1084	-0.0614	PMF	SMARS	-	-
A	(951)	Gaspra	2.70	0.33	9.4700	26.7000	83.6700	1226.9114850	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
P	402	Deimos	1.47	0.33	316.6571	53.5099	79.3993	285.1618890	108000.00	0.00	0.00	-0.1052	-0.0598	PMF	SMARS	-	-
C	9P/	Tempel 1	0.30	0.33	255.0000	64.5000	69.2000	212.8070000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
C	19P/	Borrelly	0.30	0.33	218.5000	-12.5000	0.0000	390.0000000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
A	(2867)	Steins	3.00	0.33	91.0000	-62.0000	321.7600	1428.0991700	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
C	67P/	Churyumov-Gerasimenko	0.53	0.25	69.5400	64.1100	114.6900	696.5438847	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-
A	(25143)	Itokawa	1.95	0.33	90.5300	-66.3000	0.0000	712.1430000	0.00	0.00	0.00	0.0000	0.0000	PSTD	SSTD	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A166	2435849.50	1957 Jan 11	Polaris FTV-4	-	Thrust reversal test	-	-	-	-	PM	-	-	-	10?	-	-
1957-A167	2435867.50	1957 Jan 29	Polaris FTV-4	-	Thrust reversal test	-	-	-	-	PM	-	-	-	10?	-	-
1957-A168	2435876.50	1957 Feb 7	Polaris FTV-4	-	Thrust reversal test	-	-	-	-	PM	-	-	-	10?	-	-
1957-A169	2435883.50	1957 Feb 14	Polaris FTV-4	-	Thrust reversal test	-	-	-	-	PM	-	-	-	10?	-	-
1957-A170	2435900.50	1957 Mar 3	Polaris FTV-4	-	Thrust reversal test	-	-	-	-	PM	-	-	-	10?	-	-
1957-S46	2436016.50	1957 Jun 27	Polaris FTV-4	-	4-204-1	-	-	-	-	CC	LC3	-	-	10?	-	-
1957-S59	2436035.50	1957 Jul 16	Polaris FTV-4	-	4-204-2	-	-	-	-	CC	LC3	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A166	2435849.50	1957 Jan 11	Polaris FTV-4	-	Thrust reversal test	0.000	USNSPO	MS	-	-	Test	Powell	-	-
1957-A167	2435867.50	1957 Jan 29	Polaris FTV-4	-	Thrust reversal test	0.000	USNSPO	MS	-	-	Test	Powell	-	-
1957-A168	2435876.50	1957 Feb 7	Polaris FTV-4	-	Thrust reversal test	0.000	USNSPO	MS	-	-	Test	Powell	-	-
1957-A169	2435883.50	1957 Feb 14	Polaris FTV-4	-	Thrust reversal test	0.000	USNSPO	MS	-	-	Test	Powell	-	-
1957-A170	2435900.50	1957 Mar 3	Polaris FTV-4	-	Thrust reversal test	0.000	USNSPO	MS	-	-	Test	Powell	-	-
1957-S46	2436016.50	1957 Jun 27	Polaris FTV-4	-	4-204-1	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	Cleary	-
1957-S59	2436035.50	1957 Jul 16	Polaris FTV-4	-	4-204-2	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	Cleary	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-A06	2451221.50	1999 Feb 12	48N6	-	S-300	48N6E test	-	-	-	GTsP-4	-	-	-	40?	-	-
2004-A17	2453125.50	2004 Apr 30	48N6	-	S-300	48N6DM	-	-	-	GTsP-4	-	-	-	40?	-	-
2013-A24	2456595.50	2013 Oct 30	48N6	-	S-300	-	-	-	-	GTsP-4	-	-	-	40?	-	-
2013-A25	2456595.50	2013 Oct 30	48N6	-	S-400	-	-	-	-	GTsP-4	-	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-A06	2451221.50	1999 Feb 12	48N6	-	S-300	0.000	PVO	MS	-	-	Test	globalsecurity.org	-	-
2004-A17	2453125.50	2004 Apr 30	48N6	-	S-300	0.000	PVO	MS	-	-	Test	globalsecurity.org	-	-
2013-A24	2456595.50	2013 Oct 30	48N6	-	S-300	0.000	PVO	MS	-	-	OT	russianforces.org	-	-
2013-A25	2456595.50	2013 Oct 30	48N6	-	S-400	0.000	PVO	MS	-	-	OT	russianforces.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A42	2437754.50	1962 Apr	A-350Zh	-	5TYa	F1	-	-	-	BALKH	LC6	-	-	10?	-	-
1962-A01	2437664.50	1962	A-350Zh	-	5TYa	F2	-	-	-	BALKH	LC6	-	-	10?	-	-
1962-A02	2437664.50	1962?	A-350Zh	-	5TYa	F3	-	-	-	BALKH	LC6	-	-	10?	-	-
1962-A03	2437664.50	1962?	A-350Zh	-	5TYa	F4	-	-	-	BALKH	LC6	-	-	10?	-	-
1963-A01	2438029.50	1963?	A-350Zh	-	5TYa	F5	-	-	-	BALKH	LC6	-	-	10?	-	-
1963-A67	2438149.50	1963 May	A-350Zh	-	5TYa	F6	-	-	-	BALKH	LC6	-	-	10?	-	-
1963-S416	2438272.50	1963 Sep	A-350Zh	-	6TYa	F1	-	-	-	BALKH	LC6	-	-	100?	-	-
1963-S01	2438029.50	1963?	A-350Zh	-	6TYa	F2	-	-	-	BALKH	LC6	-	-	100?	-	-
1964-S01	2438394.50	1964?	A-350Zh	-	6TYa	F3	-	-	-	BALKH	LC6	-	-	100?	-	-
1964-S02	2438394.50	1964?	A-350Zh	-	6TYa	F4	-	-	-	BALKH	LC6	-	-	100?	-	-
1964-S494	2438668.50	1964 Oct	A-350Zh	-	6TYa	F5	-	-	-	BALKH	LC6	-	-	100?	-	-
1965-S655	2439094.50	1965 Dec	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1966-S01	2439125.50	1966?	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1966-S02	2439125.50	1966?	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1966-S03	2439125.50	1966?	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1966-S04	2439125.50	1966?	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1966-S05	2439125.50	1966?	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1967-S239	2439610.50	1967 May	A-350Zh	-	6TYa?	-	-	-	-	BALKH	LC6	-	-	100?	-	-
1967-S408	2439733.50	1967 Sep	A-350Zh	-	-	LKI-1	-	-	-	BALKH	LC6	-	-	300?	-	-
1971-S01	2440951.50	1971	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1971-S02	2440951.50	1971	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1971-S03	2440951.50	1971	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1976-S01	2442777.50	1976	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1977-S01	2443143.50	1977	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1979-A13	2443932.50	1979 Mar	A-925	-	-	51T6 LKI	GCh AA84	Eject test	-	BALKH	LC6	-	-	1?	-	-
1979-S245	2444207.50	1979 Dec	A-925	-	-	51T6 LKI	GCh AA84	-	-	BALKH	LC6	-	-	100?	-	-
1979-S753	2444207.50	1979 Dec	A-925	-	-	51T6 LKI	GCh AA84	-	-	BALKH	LC6	-	-	100?	-	-
1982-S123	2445138.50	1982 Jun 18	A-925	-	-	Intercept Test	-	-	-	BALKH	-	-	-	100?	-	-
1982-S288	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S289	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S290	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S291	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S292	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S293	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1982-S294	2445273.50	1982 Nov?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1984-S316	2445759.50	1984 Mar	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1987-S263	2446854.50	1987 Mar	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1987-S241	2447068.50	1987 Oct?	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1988-S202	2447160.50	1988	A-925	-	-	51T6 Amur-P K-1?	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1988-S193	2447342.50	1988 Jul?	A-925	-	-	51T6 Amur-P K-2?	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1989-S154	2447526.50	1989	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1989-S155	2447526.50	1989	A-925	-	-	51T6 Amur-P LKI	GCh AA84	Amur-P	-	BALKH	LC6	-	-	100?	-	-
1993-S01	2448987.50	1993	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
1999-S70	2451482.50	1999 Nov	A-350	-	-	LKI	-	-	-	BALKH	-	-	-	300	-	-
2002-S60	2452550.12	2002 Oct 2 1458	A-925	-	-	51T6 UBP	GCh AA84	-	-	BALKH	LC6	-	-	100?	-	-
2014-A49	2456881.50	2014 Aug 12	Nudol'	-	-	14A042 LKI-1	-	-	-	GIK-1	LC32?	-	-	1?	-	(Kara Sea)
2015-A38	2457134.50	2015 Apr 22	Nudol'	-	-	14A042 LKI-2	-	-	-	GIK-1	LC32?	-	-	0?	-	(Kara Sea)
2015-S79	2457344.50	2015 Nov 18	Nudol'	-	-	14A042 LKI-3	A-235	-	-	GIK-1	LC32?	-	-	100?	-	Kara Sea
2016-S31	2457533.50	2016 May 25	Nudol'	-	-	14A042 LKI-4	A-235	-	-	GIK-1	LC32?	-	-	100?	-	Kara Sea
2016-S67	2457738.94	2016 Dec 16 1040	Nudol'	-	-	14A042 LKI-5	-	-	-	GIK-1	LC32?	-	-	100?	-	Kara Sea
2018-S18	2458203.68	2018 Mar 26 0423	Nudol'	-	-	14A042-01 LKI-II-1	GVM	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2018-S83	2458475.64	2018 Dec 23 0317	Nudol'	-	No. 0102	14A042 LKI-II-2	GVM	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2019-S83	2458664.50	2019 Jun 30?	Nudol'	-	-	14A042 test	GVM?	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2019-S84	2458802.50	2019 Nov 15	Nudol'	-	-	14A042 test	GVM?	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2020-S20	2458955.12	2020 Apr 15 1500?	Nudol'	-	-	14A042 test	GVM?	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2020-S47	2459199.50	2020 Dec 16	Nudol'	-	-	14A042 test	GVM?	-	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea
2021-S86	2459533.61	2021 Nov 15 0245?	Nudol'	-	-	14A042 test	GVM?	Intercept K-1408	-	GIK-1	LC32?	-	-	500?	3000	Laptev Sea

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A42	2437754.50	1962 Apr	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1962-A01	2437664.50	1962	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1962-A02	2437664.50	1962?	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1962-A03	2437664.50	1962?	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1963-A01	2438029.50	1963?	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1963-A67	2438149.50	1963 May	A-350Zh	-	5TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1963-S416	2438272.50	1963 Sep	A-350Zh	-	6TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1963-S01	2438029.50	1963?	A-350Zh	-	6TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1964-S01	2438394.50	1964?	A-350Zh	-	6TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1964-S02	2438394.50	1964?	A-350Zh	-	6TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1964-S494	2438668.50	1964 Oct	A-350Zh	-	6TYa	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1965-S655	2439094.50	1965 Dec	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1966-S01	2439125.50	1966?	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1966-S02	2439125.50	1966?	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1966-S03	2439125.50	1966?	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1966-S04	2439125.50	1966?	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1966-S05	2439125.50	1966?	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1967-S239	2439610.50	1967 May	A-350Zh	-	6TYa?	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1967-S408	2439733.50	1967 Sep	A-350Zh	-	-	0.000	PRO	MS	-	-	Test	Pervov-A	-	-
1971-S01	2440951.50	1971	A-350	-	-	0.000	PRO	MS	-	-	Test	Karpenko98	-	-
1971-S02	2440951.50	1971	A-350	-	-	0.000	PRO	MS	-	-	Test	Karpenko98	-	-
1971-S03	2440951.50	1971	A-350	-	-	0.000	PRO	MS	-	-	Test	Karpenko98	-	-
1976-S01	2442777.50	1976	A-350	-	-	0.000	PRO	MS	-	-	Test	Karpenko98	-	-
1977-S01	2443143.50	1977	A-350	-	-	0.000	PRO	MS	-	-	Test	Karpenko98	-	-
1979-A13	2443932.50	1979 Mar	A-925	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-
1979-S245	2444207.50	1979 Dec	A-925	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-
1979-S753	2444207.50	1979 Dec	A-925	-	-	0.000	PRO	MS	-	-	RML	-	-	-
1982-S123	2445138.50	1982 Jun 18	A-925	-	-	0.000	PRO	MS	-	-	ABM Test	kursakov.narod.ru	JIR9902	-
1982-S288	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S289	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S290	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S291	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S292	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S293	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1982-S294	2445273.50	1982 Nov?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1984-S316	2445759.50	1984 Mar	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1987-S263	2446854.50	1987 Mar	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1987-S241	2447068.50	1987 Oct?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1988-S202	2447160.50	1988	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1988-S193	2447342.50	1988 Jul?	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1989-S154	2447526.50	1989	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1989-S155	2447526.50	1989	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	-	-
1993-S01	2448987.50	1993	A-350	-	-	0.000	PRO	MS	-	-	Test	Wire	-	-
1999-S70	2451482.50	1999 Nov	A-350	-	-	0.000	PRO	MS	-	-	Test	Wire	-	-
2002-S60	2452550.12	2002 Oct 2 1458	A-925	-	-	0.000	PRO	MS	-	-	Test	RML	russianforces.org	-
2014-A49	2456881.50	2014 Aug 12	Nudol'	-	-	0.000	PRO	MF	U	-	Test	RPCB	-	-
2015-A38	2457134.50	2015 Apr 22	Nudol'	-	-	0.000	PRO	MF	U	-	Test	RPCB	-	-
2015-S79	2457344.50	2015 Nov 18	Nudol'	-	-	0.000	PRO	MS	-	-	Test	RPCB	-	-
2016-S31	2457533.50	2016 May 25	Nudol'	-	-	0.000	PRO	MS	-	-	Test	freebeacon.com	-	-
2016-S67	2457738.94	2016 Dec 16 1040	Nudol'	-	-	0.000	PRO	MS	-	-	Test	RML	freebeacon.com	-
2018-S18	2458203.68	2018 Mar 26 0423	Nudol'	-	-	0.000	PRO	MS	-	-	Test	thediplomat.com	-	-
2018-S83	2458475.64	2018 Dec 23 0317	Nudol'	-	No. 0102	0.000	PRO	MS	-	-	Test	RML	thediplomat.com	-
2019-S83	2458664.50	2019 Jun 30?	Nudol'	-	-	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2019-S84	2458802.50	2019 Nov 15	Nudol'	-	-	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2020-S20	2458955.12	2020 Apr 15 1500?	Nudol'	-	-	0.000	PRO	MS	-	-	Test	Wire	-	-
2020-S47	2459199.50	2020 Dec 16	Nudol'	-	-	0.000	PRO	MS	-	-	Test	Wire	-	-
2021-S86	2459533.61	2021 Nov 15 0245?	Nudol'	-	-	0.000	PRO	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-A13	2454436.72	2007 Dec 2 0514	AAD	-	01	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15	-	-
2007-A12	2454440.73	2007 Dec 6 0535?	AAD	-	02	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15	-	-
2010-A04	2455403.69	2010 Jul 26 0440?	AAD	-	03?	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15?	-	-
2011-A03	2455626.67	2011 Mar 6 0407	AAD	-	04?	AAD Interceptor	-	-	-	CHAN	IC4	-	-	16	-	-
2011-A04	2455763.62	2011 Jul 21 0250	Prahaar	-	-	Prahaar	-	-	-	CHAN	IC3	-	-	35	-	-
2012-A01	2455967.70	2012 Feb 10 0444?	AAD	-	05	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15	-	-
2012-A24	2456254.81	2012 Nov 23 0725?	AAD	-	-	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15	-	-
2017-A128	2457813.70	2017 Mar 1 0445	AAD	-	-	AAD Interceptor	-	-	-	CHAN	IC4	-	-	15	-	-
2017-A129	2458115.50	2017 Dec 28	AAD	-	-	AAD Interceptor	-	-	-	CHAN	IC4	-	-	30?	-	-
2022-S114	2459885.50	2022 Nov 2	AAD AD-1	-	1	AD-1 Interceptor	-	-	-	CHAN	IC4	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-A13	2454436.72	2007 Dec 2 0514	AAD	-	01	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2007-A12	2454440.73	2007 Dec 6 0535?	AAD	-	02	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2010-A04	2455403.69	2010 Jul 26 0440?	AAD	-	03?	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2011-A03	2455626.67	2011 Mar 6 0407	AAD	-	04?	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2011-A04	2455763.62	2011 Jul 21 0250	Prahaar	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2012-A01	2455967.70	2012 Feb 10 0444?	AAD	-	05	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2012-A24	2456254.81	2012 Nov 23 0725?	AAD	-	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2017-A128	2457813.70	2017 Mar 1 0445	AAD	-	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2017-A129	2458115.50	2017 Dec 28	AAD	-	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2022-S114	2459885.50	2022 Nov 2	AAD AD-1	-	1	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S21	2459668.50	2022 Mar 30	ADD TV1	d	TF1	Space Test	-	-	SIR	ANHU	-	-	-	200?	-	-
2022-S141	2459579.50	2022	Hyunmoo-5	?	-	Test	-	-	-	ANHU	-	-	-	200?	-	-
2022-S137	2459943.88	2022 Dec 30 0900?	ADD TV1	-	TF2	Space Test	-	-	SIR?	ANHU	-	-	-	200?	-	-
2023-S68	2459944.50	2023	Hyunmoo-5	?	-	Test	-	-	-	ANHU	-	-	-	200?	-	-
2023-188	2460282.71	2023 Dec 4 0500	ADD TV2	-	-	S-STEP	-	-	SIR?	JEJU	-	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S21	2459668.50	2022 Mar 30	ADD TV1	d	TF1	0.000	ADD	TS	-	-	Test	Wire	-	-
2022-S141	2459579.50	2022	Hyunmoo-5	?	-	0.000	ADD	MU	-	-	Test	Wire	-	-
2022-S137	2459943.88	2022 Dec 30 0900?	ADD TV1	-	TF2	0.000	ADD	TS	-	-	Test	Wire	-	-
2023-S68	2459944.50	2023	Hyunmoo-5	?	-	0.000	ADD	MU	-	-	Test	Wire	-	-
2023-188	2460282.71	2023 Dec 4 0500	ADD TV2	-	-	0.080	ADD	OS	-	G	Sat LEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-A08	2447805.23	1989 Oct 5 1728	AMROC IRR	-	SET-1	-	-	-	-	V	BMRSA3	-	-	0	-	-
1996-A08	2450402.50	1996 Nov 15	Hyperion	-	FPDP 1	LA-1	-	-	-	WI	-	-	-	8	-	-
1996-A09	2450402.50	1996 Nov 15	Hyperion	-	FPDP 2	LA-2	-	-	-	WI	-	-	-	8	-	-
1997-A02	2450456.50	1997 Jan 8	Hyperion	-	FPDP 3	HA-1	-	-	-	WI	-	-	-	36	-	-
1997-A29	2450563.50	1997 Apr 25	Hyperion	-	FPDP 4	HA-2	-	-	-	WI	-	-	-	33	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-A08	2447805.23	1989 Oct 5 1728	AMROC IRR	-	SET-1	0.000	AMROC	SF	S1I	AMROC/	Test	SN891009-1	VAFB	Stuck valve
1996-A08	2450402.50	1996 Nov 15	Hyperion	-	FPDP 1	0.000	MSFC	SS	-	EAC/	Test	www.cesaroni.net	ISIR980914-13	-
1996-A09	2450402.50	1996 Nov 15	Hyperion	-	FPDP 2	0.000	MSFC	SS	-	EAC/	Test	www.cesaroni.net	ISIR980914-13	-
1997-A02	2450456.50	1997 Jan 8	Hyperion	-	FPDP 3	0.000	MSFC	SS	-	EAC/	Test	www.hybrids.com	SN970120-17	-
1997-A29	2450563.50	1997 Apr 25	Hyperion	-	FPDP 4	0.000	MSFC	SS	-	EAC/	Test	www.hybrids.com	ISIR980914-13	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-A16	2459423.50	2021 Jul 28	ARRW	-	-	BTV-1b	AGM-183A	-	B-52H-036	EAFB	-	PM	-	10?	-	-
2022-A19	2459713.50	2022 May 14	ARRW	-	-	Booster test	AGM-183A	-	B-52H-050	EAFB	-	PM	-	10?	-	-
2022-A39	2459772.50	2022 Jul 12	ARRW	-	-	Booster Test	AGM-183A	-	B-52H	EAFB	-	PM	-	10?	-	-
2022-A37	2459922.50	2022 Dec 9	ARRW	-	-	Test	AGM-183A	-	B-52H	EAFB	-	PM	-	10?	-	-
2023-A08	2460016.50	2023 Mar 13	ARRW	-	-	Test	AGM-183A	-	B-52H	EAFB	-	PM	-	10?	-	-
2023-A19	2460175.50	2023 Aug 19	ARRW	-	-	Test	AGM-183A	-	B-52H	EAFB	-	PM?	-	20?	-	-
2023-A21	2460229.50	2023 Oct 12	ARRW	-	-	Test	AGM-183A	-	B-52H	EAFB	-	PM?	-	20?	-	-
2024-A02	2460369.50	2024 Mar	ARRW	-	-	Test	AGM-183A	-	B-52H	GUAMA	-	KMR	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-A16	2459423.50	2021 Jul 28	ARRW	-	-	0.000	AFAD	MF	U	-	Test	eglin.af.mil	-	-
2022-A19	2459713.50	2022 May 14	ARRW	-	-	0.000	AFAD	MF	U	-	Test	iiss.org	-	-
2022-A39	2459772.50	2022 Jul 12	ARRW	-	-	0.000	AFAD	MS	-	-	Test	Wire	-	-
2022-A37	2459922.50	2022 Dec 9	ARRW	-	-	0.000	AFAD	MS	-	-	Test	Wire	-	-
2023-A08	2460016.50	2023 Mar 13	ARRW	-	-	0.000	AFAD	MF	U	-	Test	Wire	-	-
2023-A19	2460175.50	2023 Aug 19	ARRW	-	-	0.000	AFAD	MU	-	-	Test	Wire	-	-
2023-A21	2460229.50	2023 Oct 12	ARRW	-	-	0.000	AFAD	MU	-	-	Test	Wire	-	-
2024-A02	2460369.50	2024 Mar	ARRW	-	-	0.000	AFAD	MU	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-F03	2444095.60	1979 Aug 10 0228	SLV-3	-	SLV-3-E1	RS-1	Rohini RS-1	-	-	SHAR	SLV	-	-	300?	-	-
1980-062	2444438.61	1980 Jul 18 0233:45	SLV-3	-	SLV-3-E2	RS-1	Rohini RS-1	-	-	SHAR	SLV	-	-	919	-	-
1981-051	2444755.65	1981 May 31 0333:46	SLV-3	-	SLV-3-D1	RS-D-1	Rohini RS-D-1	-	-	SHAR	SLV	-	-	418	-	-
1983-033	2445441.73	1983 Apr 17 0535:45	SLV-3	D4	SLV-3-D2	RS-D-2	Rohini RS-D-2	-	-	SHAR	SLV	-	-	856	-	-
1987-F01	2446878.78	1987 Mar 24 0639	ASLV	-	ASLV-D1	SROSS A	SROSS-A	-	-	SHAR	SLV	-	-	10?	-	-
1988-F03	2447355.89	1988 Jul 13 0918	ASLV	-	ASLV-D2	SROSS B	SROSS-B	-	-	SHAR	SLV	-	-	25	-	-
1989-S58	2447668.57	1989 May 22 0140	Agni TD	-	01	-	-	-	-	CHAN	-	-	-	300?	-	-
1992-028	2448762.52	1992 May 20 0030	ASLV	-	ASLV-D3	SROSS C	SROSS-C	-	-	SHAR	SLV	-	-	444	-	-
1992-A10	2448770.50	1992 May 28	Agni TD	-	02	-	-	-	-	CHAN	-	-	-	10	-	-
1994-S18	2449403.01	1994 Feb 19 1213	Agni TD	-	04	Agni RV Mk 1	-	-	-	CHAN	-	-	-	300?	-	-
1994-027	2449476.50	1994 May 4 0000	ASLV	-	ASLV-D4	SROSS C2	SROSS-C2	-	-	SHAR	SLV	-	-	922	-	-
1999-S23	2451279.68	1999 Apr 11 0417	Agni 2	-	-	Agni RV Mk 2	-	-	-	CHAN	IC4	-	-	1000?	-	-
2001-S03	2451926.69	2001 Jan 17 0431	Agni 2	-	-	Agni RV Mk 2	-	-	-	CHAN	IC4/TEL	-	-	1000?	-	-
2002-S03	2452299.64	2002 Jan 25 0315	Agni 1	-	-	Agni RV Mk 2	-	-	-	CHAN	-	-	-	300?	-	-
2003-S01	2452648.64	2003 Jan 9 0317	Agni 1	-	-	Agni RV Mk 2	-	-	-	CHAN	IC4	-	-	300?	-	-
2004-S25	2453190.69	2004 Jul 4 0440	Agni 1	-	-	Agni A-1	-	-	-	CHAN	IC4	-	-	300?	-	-
2004-S38	2453246.81	2004 Aug 29 0726	Agni 2	-	-	OT	-	-	-	CHAN	IC4	-	-	1000?	-	-
2007-S50	2454378.71	2007 Oct 5 0507	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300?	-	-
2007-S51	2454397.50	2007 Oct 24	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300?	-	-
2008-S12	2454548.70	2008 Mar 23 0445	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300?	-	-
2009-S27	2454970.69	2009 May 19 0436	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	-	-
2009-A08	2455159.10	2009 Nov 23 1419	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	20?	-	-
2010-S28	2455283.82	2010 Mar 28 0737	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300	-	-
2010-S34	2455333.66	2010 May 17 0348	Agni 2	-	Agni A-2	Agni RV	-	-	-	CHAN	IC4	-	-	300	-	-
2010-S70	2455525.69	2010 Nov 25 0440	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300	-	-
2010-A05	2455540.69	2010 Dec 10 0435	Agni 2P	-	Agni II Prime	Agni RV?	-	-	-	CHAN	IC4	-	-	20?	-	-
2011-S44	2455834.67	2011 Sep 30 0400	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	220	-	-
2011-S55	2455880.65	2011 Nov 15 0330	Agni 4	-	Agni II Prime	Agni RV?	-	-	-	CHAN	IC4	-	-	900	-	-
2011-S73	2455896.67	2011 Dec 1 0400	Agni 1	-	-	Agni RV?	-	-	-	CHAN	IC4	-	-	300	-	-
2012-S42	2456121.69	2012 Jul 13 0436	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	-	-
2012-S43	2456148.64	2012 Aug 9 0316	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	220?	-	-
2012-S48	2456189.76	2012 Sep 19 0618	Agni 4	-	Agni II Prime	Agni RV?	-	-	-	CHAN	IC4	-	-	900?	-	-
2013-S25	2456389.70	2013 Apr 7 0455	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	220?	-	-
2014-S05	2456677.72	2014 Jan 20 0522	Agni 4	-	Agni II Prime	Agni RV?	-	-	-	CHAN	IC4	-	-	900?	-	-
2014-S51	2456759.23	2014 Apr 11 1733	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2014-S52	2456911.74	2014 Sep 11 0541	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2014-S75	2456970.67	2014 Nov 9 0410	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	-	-
2014-S76	2456993.70	2014 Dec 2 0449	Agni 4	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	500	3000	-
2015-S71	2457335.68	2015 Nov 9 0415	Agni 4	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600	3500	-
2015-S98	2457353.69	2015 Nov 27 0432	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2016-S76	2457461.66	2016 Mar 14 0345	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2016-M01	2457531.56	2016 May 23 0130	HS9	-	RLV-TD	HEX-01	-	-	-	SDSC	FLP	-	-	65	411	-
2016-S77	2457714.69	2016 Nov 22 0440	Agni 1	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2017-S109	2457755.77	2017 Jan 2 0625	Agni 4	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600	3500	-
2017-A130	2457877.70	2017 May 4 0455	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	1?	-	-
2018-S08	2458155.62	2018 Feb 6 0300	Agni 1	-	Agni 1 (A)	Agni RV	-	-	-	CHAN	IC4	-	-	300?	700	-
2018-S13	2458169.63	2018 Feb 20 0308	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600?	3150	92.5E 7.5S?
2019-A125	2458646.75	2019 Jun 12 0557	Agni 1	-	HSTDV	HSTDV 1	-	-	-	CHAN	IC4	-	-	20?	-	-
2019-S71	2458804.08	2019 Nov 16 1402	Agni 2	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600?	2000?	-
2020-A20	2459099.73	2020 Sep 7 0533	Agni 1	-	HSTDV	HSTDV 2	-	-	-	CHAN	IC4	-	-	30	-	-
2021-S37	2459393.73	2021 Jun 28 0525	Agni P	-	A1P-01	Agni P RV	-	-	-	CHAN	IC4	-	-	800	-	-
2021-S83	2459566.73	2021 Dec 18 0536	Agni P	-	A1P-02	Agni P RV	-	-	-	CHAN	IC4	-	-	800	-	-
2022-S49	2459737.08	2022 Jun 6 1400	Agni 4	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600	3500	-
2022-S109	2459873.68	2022 Oct 21 0415	Agni P	-	A1P-03	Agni P RV	-	-	-	CHAN	IC4	-	-	800	-	-
2024-S52	2460559.50	2024 Sep 6	Agni 4	-	-	Agni RV	-	-	-	CHAN	IC4	-	-	600	3500	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-F03	2444095.60	1979 Aug 10 0228	SLV-3	-	SLV-3-E1	0.035	ISRO	OF	S2G	G	Sat LEO O	Raj	SP-4024	S2 RCS leaked on pad
1980-062	2444438.61	1980 Jul 18 0233:45	SLV-3	-	SLV-3-E2	0.035	ISRO	OS	-	G	Sat LEO O	ISRO-poster	SP-4024	-
1981-051	2444755.65	1981 May 31 0333:46	SLV-3	-	SLV-3-D1	0.040	ISRO	OS75	S1G	G	Sat LEO O	Sandlas	-	S1 roll problem
1983-033	2445441.73	1983 Apr 17 0535:45	SLV-3	D4	SLV-3-D2	0.041	ISRO	OS	-	G	Sat LEO O	Sandlas	RAE	-
1987-F01	2446878.78	1987 Mar 24 0639	ASLV	-	ASLV-D1	0.150	ISRO	OF	S1I	G	Sat LEO O	Raj	-	Core stage ft ignite
1988-F03	2447355.89	1988 Jul 13 0918	ASLV	-	ASLV-D2	0.150	ISRO	OF	S1G	G	Sat LEO O	Raj	-	Winds exceeded control
1989-S58	2447668.57	1989 May 22 0140	Agni TD	-	01	0.000	IDRDL	MS	-	-	Test	Chengappa	AWST890529-42	-
1992-028	2448762.52	1992 May 20 0030	ASLV	-	ASLV-D3	0.106	ISRO	OS	-	G	Sat LEO O	JCM	-	-
1992-A10	2448770.50	1992 May 28	Agni TD	-	02	0.000	IDRDL	MF	U	-	Test	Chengappa	-	-
1994-S18	2449403.01	1994 Feb 19 1213	Agni TD	-	04	0.000	IDRDL	MS	-	-	Test	Chengappa	-	-
1994-027	2449476.50	1994 May 4 0000	ASLV	-	ASLV-D4	0.113	ISRO	OS	-	G	Sat LEO O	SPX-487	-	-
1999-S23	2451279.68	1999 Apr 11 0417	Agni 2	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2001-S03	2451926.69	2001 Jan 17 0431	Agni 2	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2002-S03	2452299.64	2002 Jan 25 0315	Agni 1	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2003-S01	2452648.64	2003 Jan 9 0317	Agni 1	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2004-S25	2453190.69	2004 Jul 4 0440	Agni 1	-	-	0.000	IDRDL	MS	-	-	Test	TheHindu040705	-	-
2004-S38	2453246.81	2004 Aug 29 0726	Agni 2	-	-	0.000	IDRDL	MS	-	-	Test	pib.nic.in	-	-
2007-S50	2454378.71	2007 Oct 5 0507	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2007-S51	2454397.50	2007 Oct 24	Agni 1	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2008-S12	2454548.70	2008 Mar 23 0445	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2009-S27	2454970.69	2009 May 19 0436	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	thehindubusinessline	com	-
2009-A08	2455159.10	2009 Nov 23 1419	Agni 2	-	-	0.000	ISFC	MF	U	-	Test	allvoices.com	indiaenews.com	-
2010-S28	2455283.82	2010 Mar 28 0737	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2010-S34	2455333.66	2010 May 17 0348	Agni 2	-	Agni A-2	0.000	ISFC	MS	-	-	Test	Wire	-	-
2010-S70	2455525.69	2010 Nov 25 0440	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2010-A05	2455540.69	2010 Dec 10 0435	Agni 2P	-	Agni II Prime	0.000	IDRDL	MF	U	-	Test	thehindu.com	-	-
2011-S44	2455834.67	2011 Sep 30 0400	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2011-S55	2455880.65	2011 Nov 15 0330	Agni 4	-	Agni II Prime	0.000	IDRDL	MS	-	-	Test	indiatimes.com	-	-
2011-S73	2455896.67	2011 Dec 1 0400	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2012-S42	2456121.69	2012 Jul 13 0436	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2012-S43	2456148.64	2012 Aug 9 0316	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2012-S48	2456189.76	2012 Sep 19 0618	Agni 4	-	Agni II Prime	0.000	IDRDL	MS	-	-	Test	thehindu.com	-	-
2013-S25	2456389.70	2013 Apr 7 0455	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2014-S05	2456677.72	2014 Jan 20 0522	Agni 4	-	Agni II Prime	0.000	IDRDL	MS	-	-	Test	thehindu.com	-	-
2014-S51	2456759.23	2014 Apr 11 1733	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2014-S52	2456911.74	2014 Sep 11 0541	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2014-S75	2456970.67	2014 Nov 9 0410	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2014-S76	2456993.70	2014 Dec 2 0449	Agni 4	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2015-S71	2457335.68	2015 Nov 9 0415	Agni 4	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2015-S98	2457353.69	2015 Nov 27 0432	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2016-S76	2457461.66	2016 Mar 14 0345	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2016-M01	2457531.56	2016 May 23 0130	HS9	-	RLV-TD	0.000	ISRO	SS	-	ISRO/	Reentry Test	isro.org	-	-
2016-S77	2457714.69	2016 Nov 22 0440	Agni 1	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2017-S109	2457755.77	2017 Jan 2 0625	Agni 4	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2017-A130	2457877.70	2017 May 4 0455	Agni 2	-	-	0.000	ISFC	MF	U	-	Test	Wire	-	-
2018-S08	2458155.62	2018 Feb 6 0300	Agni 1	-	Agni 1 (A)	0.000	ISFC	MS	-	-	Test	timesofindia.com	-	-
2018-S13	2458169.63	2018 Feb 20 0308	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2019-A125	2458646.75	2019 Jun 12 0557	Agni 1	-	HSTDV	0.000	IDRDL	MF	U	-	Test	Wire	-	-
2019-S71	2458804.08	2019 Nov 16 1402	Agni 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2020-A20	2459099.73	2020 Sep 7 0533	Agni 1	-	HSTDV	0.000	IDRDL	MS	-	-	Test	inbminisrty.blogspot	-	-
2021-S37	2459393.73	2021 Jun 28 0525	Agni P	-	A1P-01	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2021-S83	2459566.73	2021 Dec 18 0536	Agni P	-	A1P-02	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2022-S49	2459737.08	2022 Jun 6 1400	Agni 4	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2022-S109	2459873.68	2022 Oct 21 0415	Agni P	-	A1P-03	0.000	IDRDL	MS	-	-	Test	twitter.com/ani	-	-
2024-S52	2460559.50	2024 Sep 6	Agni 4	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-A02	2455343.22	2010 May 26 1710	X-51A	-	1	-	-	-	B-52H-050	EAFB	RW04/22	WTR	LP10	19	-	-
2011-A22	2455725.50	2011 Jun 13	X-51A	-	2	-	-	-	B-52H-031	EAFB	RW04/22	WTR	LP10	16?	-	-
2012-A07	2456154.27	2012 Aug 14 1835	X-51A	-	3	-	-	-	B-52H-050	EAFB	RW04/22	WTR	LP10	16?	-	-
2013-A08	2456414.25	2013 May 1 1755	X-51A	-	4	-	-	-	B-52H-024	EAFB	RW04/22	WTR	LP10	16?	-	-
2015-A43	2457022.50	2015?	K-BATS	-	-	Target	-	-	-	ANHU	-	-	-	40?	-	-
2016-A104	2457738.18	2016 Dec 15 1615	Pathfinder Zombie	-	NASA 12.080DR	Pathfinder Zombie	-	-	-	WS	-	-	-	40?	-	-
2017-A112	2457919.16	2017 Jun 14 1545:24	Sabre Zombie	-	NASA 12.086DR	Sabre Zombie	-	-	-	WS	-	-	-	40?	-	-
2017-S54	2457939.42	2017 Jul 4 2200?	ATACMS	-	-	-	-	-	-	GOSEONG	-	-	-	80?	-	-
2017-S63	2457963.42	2017 Jul 28 2200?	ATACMS	-	-	-	-	-	-	GOSEONG	-	-	-	80?	-	-
2017-A113	2458074.12	2017 Nov 16 1500:00	Sabre Zombie	-	NASA 12.085SZ-DR	Sabre Zombie	-	-	-	FTB	MCG	-	-	30?	-	-
2020-S30	2459025.50	2020 Jun 25	Pathfinder Zombie	-	Pathfinder Zombie	Foreign customer target	PAC-3 MSE Target	-	-	WS	-	-	-	40?	-	-
2021-A10	2459353.50	2021 May 19	Pathfinder Zombie	-	-	Formidable Shield	-	-	-	SUIST	-	-	-	40?	-	-
2022-S41	2459736.49	2022 Jun 5 2345	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S42	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S43	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S44	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S45	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S46	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S47	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S48	2459736.50	2022 Jun 5 2355	ATACMS	-	-	-	-	-	-	GOSEONG?	-	-	-	80?	-	-
2022-S90	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	-	-	-	-	GANGN	-	-	-	80?	-	-
2022-S91	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	-	-	-	-	GANGN	-	-	-	80?	-	-
2022-S93	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	-	-	-	-	GANGN	-	-	-	80?	-	-
2022-S94	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	-	-	-	-	GANGN	-	-	-	80?	-	-
2024-A13	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A14	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A15	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A16	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A17	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A18	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-
2024-A19	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	-	-	-	-	UKR1	-	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-A02	2455343.22	2010 May 26 1710	X-51A	-	1	0.000	AFRLRZ	AS	-	AFRLRZ/DARPA/	Hypersonic Scramjet	Wire	-	-
2011-A22	2455725.50	2011 Jun 13	X-51A	-	2	0.000	AFRLRZ	AS	-	AFRLRZ/DARPA/	Hypersonic Scramjet	Wire	-	-
2012-A07	2456154.27	2012 Aug 14 1835	X-51A	-	3	0.000	AFRLRZ	AF	U	AFRLRZ/DARPA/	Hypersonic Scramjet	Wire	-	-
2013-A08	2456414.25	2013 May 1 1755	X-51A	-	4	0.000	AFRLRZ	AS	-	AFRLRZ/DARPA/	Hypersonic Scramjet	Wire	-	-
2015-A43	2457022.50	2015?	K-BATS	-	-	0.000	ADD	AS	-	ADD/	Test	AWST160620-34	-	-
2016-A104	2457738.18	2016 Dec 15 1615	Pathfinder Zombie	-	NASA 12.080DR	0.000	SMDC	SS	-	SMDC/Chrisley	Test	army.mil	-	-
2017-A112	2457919.16	2017 Jun 14 1545:24	Sabre Zombie	-	NASA 12.086DR	0.000	SMDC	SS	-	SMDC/Chrisley	Test	army.mil	-	-
2017-S54	2457939.42	2017 Jul 4 2200?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	usfk.mil	-	-
2017-S63	2457963.42	2017 Jul 28 2200?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	usfk.mil	-	-
2017-A113	2458074.12	2017 Nov 16 1500:00	Sabre Zombie	-	NASA 12.085SZ-DR	0.000	SMDC	SS	-	SMDC/Chrisley	Test	army.mil	-	-
2020-S30	2459025.50	2020 Jun 25	Pathfinder Zombie	-	Pathfinder Zombie	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2021-A10	2459353.50	2021 May 19	Pathfinder Zombie	-	-	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2022-S41	2459736.49	2022 Jun 5 2345	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S42	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S43	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S44	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S45	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S46	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S47	2459736.49	2022 Jun 5 2350?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S48	2459736.50	2022 Jun 5 2355	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S90	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S91	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	0.000	US8A	SS	-	US8A/	Test	Wire	-	-
2022-S93	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	0.000	ADD	SS	-	ADD/	Test	Wire	-	-
2022-S94	2459857.12	2022 Oct 4 1500?	ATACMS	-	-	0.000	ADD	SS	-	ADD/	Test	Wire	-	-
2024-A13	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A14	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A15	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A16	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A17	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A18	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-
2024-A19	2460633.52	2024 Nov 19 0025?	ATACMS	-	-	0.000	AFU	MS	-	AFU/	Weapon	Wire	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-M05	2447865.50	1989 Dec 5	Al Abid	-	-	Stage 1 test	-	-	-	ANBAR	-	-	-	2?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-M05	2447865.50	1989 Dec 5	Al Abid	-	-	0.000	IQ	MF	U	-	Test	www.fas.org	SN891211-22	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A725	2435064.50	1954 Nov 18	MX-2227	-	1	HTV	-	-	-	WS	-	-	-	10?	-	-
1954-A726	2435069.50	1954 Nov 23	MX-2227	-	2	HTV	-	-	-	WS	-	-	-	10?	-	-
1954-A727	2435090.50	1954 Dec 14	MX-2227	-	3	HTV	-	-	-	WS	-	-	-	10?	-	-
1954-A728	2435093.50	1954 Dec 17	MX-2227	-	4	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A573	2435205.50	1955 Apr 8	MX-2227	-	5	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A574	2435212.50	1955 Apr 15	MX-2227	-	6	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A575	2435275.50	1955 Jun 17	HTV	-	7	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A576	2435286.50	1955 Jun 28	HTV	-	8	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A577	2435288.50	1955 Jun 30	HTV	-	9	HTV	-	-	-	WS	-	-	-	10?	-	-
1955-A664	2435366.50	1955 Sep 16	HTV	?	AM-1	HTV Atlas AM-1	-	-	-	WS	-	-	-	10?	-	-
1955-A665	2435369.50	1955 Sep 19	HTV	?	HS-2	HTV Atlas HS-1	-	-	-	WS	-	-	-	10?	-	-
1955-A666	2435371.50	1955 Sep 21	HTV	?	AM-2	HTV Atlas AM-2	-	-	-	WS	-	-	-	10?	-	-
1955-A578	2435399.50	1955 Oct 19	HTV	-	10	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1955-A579	2435406.50	1955 Oct 26	HTV	-	11	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1955-A580	2435433.50	1955 Nov 22	HTV	-	14	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1955-A581	2435449.50	1955 Dec 8	HTV	-	15	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A236	2435491.50	1956 Jan 19	HTV	-	13	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A237	2435524.50	1956 Feb 21	HTV	-	2A24	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A238	2435534.50	1956 Mar 2	HTV	-	2A25	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A239	2435545.50	1956 Mar 13	HTV	-	2F36	HTV RS	-	-	-	WS	-	-	-	10?	-	-
1956-A240	2435561.50	1956 Mar 29	HTV	-	2A26	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A241	2435566.50	1956 Apr 3	HTV	-	AF27	HTV RS	-	-	-	WS	-	-	-	10?	-	-
1956-A242	2435568.50	1956 Apr 5	HTV	-	2F38	HTV RS	-	-	-	WS	-	-	-	10?	-	-
1956-A243	2435574.50	1956 Apr 11	HTV	-	2AM39	HTV RS	-	-	-	WS	-	-	-	10?	-	-
1956-A244	2435589.50	1956 Apr 26	HTV	-	2A27	HTV	-	-	-	WS	-	-	-	10?	-	-
1956-A356	2435612.50	1956 May 19	HTV	?	-	HTV Atlas 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A357	2435612.50	1956 May 19	HTV	?	-	HTV Atlas 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A245	2435615.50	1956 May 22	HTV	-	2M40	HTV	-	-	-	WS	-	-	-	10?	-	-
1956-A246	2435631.50	1956 Jun 7	HTV	-	S16	HTV	-	-	-	WS	-	-	-	10?	-	-
1956-A358	2435633.50	1956 Jun 9	HTV	?	DT-2	HTV Atlas DT-2	-	-	-	WS	-	-	-	10?	-	-
1956-A247	2435643.50	1956 Jun 19	HTV	-	S17	HTV	-	-	-	WS	-	-	-	10?	-	-
1956-A248	2435664.50	1956 Jul 10	HTV	-	HAT-1	HTV HAT	-	-	-	WS	-	-	-	10?	-	-
1956-A249	2435680.50	1956 Jul 26	HTV	-	W-2	HTV 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A250	2435707.50	1956 Aug 22	HTV	-	HAT-2	HTV HAT	-	-	-	WS	-	-	-	10?	-	-
1956-A251	2435716.50	1956 Aug 31	HTV	-	-	HTV 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A252	2435722.50	1956 Sep 6	HTV	-	HAT-83	HTV 1366	-	-	-	WS	-	-	-	10?	-	-
1956-A253	2435727.50	1956 Sep 11	HTV	-	W-4	HTV 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A254	2435743.50	1956 Sep 27	HTV	-	W-5	HTV 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A255	2435762.50	1956 Oct 16	HTV	-	TM-41	HTV Douglas	-	-	-	WS	-	-	-	10?	-	-
1956-A256	2435796.50	1956 Nov 19	HTV	-	-	HTV 107A	-	-	-	WS	-	-	-	10?	-	-
1956-A257	2435805.50	1956 Nov 28	HTV	-	-	HTV 107A	-	-	-	WS	-	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A725	2435064.50	1954 Nov 18	MX-2227	-	1	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1954-A726	2435069.50	1954 Nov 23	MX-2227	-	2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1954-A727	2435090.50	1954 Dec 14	MX-2227	-	3	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1954-A728	2435093.50	1954 Dec 17	MX-2227	-	4	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A573	2435205.50	1955 Apr 8	MX-2227	-	5	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A574	2435212.50	1955 Apr 15	MX-2227	-	6	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A575	2435275.50	1955 Jun 17	HTV	-	7	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A576	2435286.50	1955 Jun 28	HTV	-	8	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A577	2435288.50	1955 Jun 30	HTV	-	9	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A664	2435366.50	1955 Sep 16	HTV	?	AM-1	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A665	2435369.50	1955 Sep 19	HTV	?	HS-2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A666	2435371.50	1955 Sep 21	HTV	?	AM-2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A578	2435399.50	1955 Oct 19	HTV	-	10	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A579	2435406.50	1955 Oct 26	HTV	-	11	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A580	2435433.50	1955 Nov 22	HTV	-	14	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1955-A581	2435449.50	1955 Dec 8	HTV	-	15	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A236	2435491.50	1956 Jan 19	HTV	-	13	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A237	2435524.50	1956 Feb 21	HTV	-	2A24	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A238	2435534.50	1956 Mar 2	HTV	-	2A25	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A239	2435545.50	1956 Mar 13	HTV	-	2F36	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A240	2435561.50	1956 Mar 29	HTV	-	2A26	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A241	2435566.50	1956 Apr 3	HTV	-	AF27	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A242	2435568.50	1956 Apr 5	HTV	-	2F38	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A243	2435574.50	1956 Apr 11	HTV	-	2AM39	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A244	2435589.50	1956 Apr 26	HTV	-	2A27	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A356	2435612.50	1956 May 19	HTV	?	-	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A357	2435612.50	1956 May 19	HTV	?	-	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A245	2435615.50	1956 May 22	HTV	-	2M40	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A246	2435631.50	1956 Jun 7	HTV	-	S16	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A358	2435633.50	1956 Jun 9	HTV	?	DT-2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A247	2435643.50	1956 Jun 19	HTV	-	S17	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A248	2435664.50	1956 Jul 10	HTV	-	HAT-1	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A249	2435680.50	1956 Jul 26	HTV	-	W-2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A250	2435707.50	1956 Aug 22	HTV	-	HAT-2	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A251	2435716.50	1956 Aug 31	HTV	-	-	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A252	2435722.50	1956 Sep 6	HTV	-	HAT-83	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A253	2435727.50	1956 Sep 11	HTV	-	W-4	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A254	2435743.50	1956 Sep 27	HTV	-	W-5	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A255	2435762.50	1956 Oct 16	HTV	-	TM-41	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A256	2435796.50	1956 Nov 19	HTV	-	-	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-
1956-A257	2435805.50	1956 Nov 28	HTV	-	-	0.000	ORD	AS	-	-	Heat transfer	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A32	2434062.12	1952 Feb 19 1449	Aerobee RTV-A-1c	-	USAF 22	Airglow	-	-	-	HADC	A	-	-	0	-	-
1961-A223	2437596.50	1961 Oct 24	Seabee	-	SEABEE	Hydra	-	-	-	PM	-	-	-	1?	-	-
1961-A267	2437605.50	1961 Nov 2	Seabee	-	SEABEE	Hydra	-	-	-	PM	-	-	-	1?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A32	2434062.12	1952 Feb 19 1449	Aerobee RTV-A-1c	-	USAF 22	0.000	AFCRL	SF	U	AFCRL/	Aeronomy SB	Newell	-	-
1961-A223	2437596.50	1961 Oct 24	Seabee	-	SEABEE	0.000	NMC	AS	-	-	Test	rocketservices.co.uk	AASH26-371	-
1961-A267	2437605.50	1961 Nov 2	Seabee	-	SEABEE	0.000	NMC	AS	-	-	Test	AeAe1961	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1947-A18	2432453.50	1947 Sep 25	Aerobee RTV-N-8	-	A1	Dummy	-	-	-	WS	LC35	-	-	1?	-	-
1947-A20	2432460.50	1947 Oct 2	Aerobee RTV-N-8	-	A2	Dummy	-	-	-	WS	LC35	-	-	1?	-	-
1947-A27	2432489.50	1947 Oct 31	Aerobee RTV-N-8	-	A3	Dummy	-	-	-	WS	LC35	-	-	1?	-	-
1947-M06	2432514.22	1947 Nov 24 1720	Aerobee RTV-N-8	-	A4	Particles	-	-	-	WS	LC35	-	-	56	-	-
1948-S03	2432616.45	1948 Mar 5 2251	Aerobee RTV-N-8	-	A5	Particles	-	-	-	WS	LC35	-	-	118	-	-
1948-S05	2432655.40	1948 Apr 13 2141	Aerobee RTV-N-8	-	A6	B field	-	-	-	WS	LC35	-	-	114	-	-
1948-S08	2432759.20	1948 Jul 26 1647	Aerobee RTV-N-8	-	A7	-	-	-	-	WS	LC35	-	-	113	-	-
1948-S11	2432769.57	1948 Aug 6 0137	Aerobee RTV-N-8	-	NRL 1	Aerobee Venus 1	-	-	-	WS	LC35	-	-	98	-	-
1948-S19	2432857.51	1948 Nov 2 0015	Aerobee RTV-N-8	-	A8	CR/Solar	-	-	-	WS	LC35	-	-	91	-	-
1948-S25	2432895.44	1948 Dec 9 2238	Aerobee XASR-SC-1	-	SC 1	Air sampling	-	-	-	WS	LC35	-	-	91	-	-
1949-S01	2432945.76	1949 Jan 29 0617	Aerobee RTV-N-8	-	NRL 2	Venus 2	-	-	-	WS	LC35	-	-	96	-	-
1949-A04	2432949.28	1949 Feb 1 1838	Aerobee RTV-N-8	-	NRL 3	Venus 3	-	-	-	WS	LC35	-	-	0	-	-
1949-A06	2432976.50	1949 Mar 1	Aerobee RTV-N-8	-	A9	Ship launch test	-	-	-	WS	LC35	-	-	1	-	-
1949-S04	2432993.47	1949 Mar 17 2320	Aerobee RTV-N-8	-	A10	-	-	-	AVM1	USN49A	LP1	-	-	105	-	-
1949-S06	2432998.22	1949 Mar 22 1720	Aerobee RTV-N-8	-	A11	-	-	-	AVM1	USN49A	LP1	-	-	105	-	-
1949-A07	2433000.13	1949 Mar 24 1514	Aerobee RTV-N-8	-	A12	-	-	-	AVM1	USN49A	LP2	-	-	5	-	-
1949-M03	2433070.05	1949 Jun 2 1310	Aerobee XASR-SC-1	-	SC 2	Air Sampling	-	-	-	WS	LC35	-	-	78	-	-
1949-S16	2433082.59	1949 Jun 15 0203	Aerobee RTV-N-8	-	NRL 5	Ozone spectrograph	-	-	-	WS	LC35	-	-	109	-	-
1949-S17	2433084.99	1949 Jun 17 1150	Aerobee RTV-N-8	-	A13	Aerodynamics test	-	-	-	WS	LC35	-	-	88	-	-
1949-S18	2433091.47	1949 Jun 23 2321	Aerobee RTV-N-8	-	A14	CR/Solar	-	-	-	WS	LC35	-	-	88	-	-
1949-M04	2433119.17	1949 Jul 21 1601	Aerobee XASR-SC-1	-	SC 4	Air Sampling	-	-	-	WS	LC35	-	-	76	-	-
1949-M06	2433180.21	1949 Sep 20 1703	Aerobee XASR-SC-1	-	SC 5	Air Sampling	-	-	-	WS	LC35	-	-	58	-	-
1949-S45	2433253.43	1949 Dec 2 2220	Aerobee RTV-A-1	-	USAF 1	MX-1011	-	-	-	HADC	A	-	-	96	-	-
1949-M08	2433257.27	1949 Dec 6 1832	Aerobee XASR-SC-1	-	SC 3	Air Sampling	-	-	-	WS	LC35	-	-	65	-	-
1949-M09	2433257.51	1949 Dec 7 0016	Aerobee XASR-SC-1	-	SC 7	Air Sampling	-	-	-	WS	LC35	-	-	60	-	-
1949-A28	2433266.22	1949 Dec 15 1710	Aerobee RTV-A-1	-	USAF 2	MX-1011	-	-	-	HADC	A	-	-	0	-	-
1950-M01	2433297.49	1950 Jan 15 2345	Aerobee RTV-N-10	-	A15	-	-	-	AVM1	USN50A	LP1	-	-	72	-	-
1950-M02	2433300.47	1950 Jan 18 2317	Aerobee RTV-N-10	-	A16	-	-	-	AVM1	USN50A	LP2	-	-	80	-	-
1950-S01	2433327.47	1950 Feb 14 2314	Aerobee RTV-N-8	-	NRL 4	Cosmic gamma	-	-	-	WS	LC35	-	-	87	-	-
1950-A07	2433334.54	1950 Feb 22 0054	Aerobee XASR-SC-1	-	SC 9	Air Sampling	-	-	-	WS	LC35	-	-	49	-	-
1950-M04	2433344.52	1950 Mar 4 0036	Aerobee XASR-SC-1	-	SC 6	Grenades	-	-	-	WS	LC35	-	-	72	-	-
1950-A11	2433355.36	1950 Mar 14 2043	Aerobee RTV-A-1	-	USAF 3	Solar X/Airglow	-	-	-	HADC	A	-	-	3	-	-
1950-S03	2433397.55	1950 Apr 26 0111	Aerobee XASR-SC-2	-	SC 11	Air Sampling	-	-	-	WS	LC35	-	-	100	-	-
1950-S05	2433414.02	1950 May 12 1230	Aerobee RTV-N-10	-	A17	-	-	-	-	WS	LC35	-	-	88	-	-
1950-M05	2433428.32	1950 May 26 1943	Aerobee RTV-A-1	-	USAF 4	Insolation	-	-	-	HADC	A	-	-	67	-	-
1950-A25	2433435.21	1950 Jun 2 1707	Aerobee RTV-A-1	-	USAF 5	Airglow	-	-	-	HADC	A	-	-	24	-	-
1950-S06	2433453.15	1950 Jun 20 1538	Aerobee RTV-A-1	-	USAF 6	UM T/p	-	-	-	HADC	A	-	-	93	-	-
1950-M07	2433476.86	1950 Jul 14 0839	Aerobee XASR-SC-1	-	SC 8	Grenades	-	-	-	WS	LC35	-	-	69	-	-
1950-A31	2433497.49	1950 Aug 3 2352	Aerobee RTV-N-10	-	NRL 6	Sunfollower/SX	-	-	-	WS	LC35?	-	-	6	-	-
1950-S07	2433511.16	1950 Aug 17 1545	Aerobee RTV-N-10	-	A18	Mass spectrometer	-	-	-	WS	LC35	-	-	101	-	-
1950-S11	2433567.32	1950 Oct 12 1936	Aerobee RTV-A-1	-	USAF 7	Photo/Temp	-	-	-	HADC	A	-	-	87	-	-
1950-M10	2433571.67	1950 Oct 17 0400	Aerobee XASR-SC-2	-	SC 10	Grenades	-	-	-	WS	LC35	-	-	80	-	-
1950-S12	2433572.69	1950 Oct 18 0430	Aerobee XASR-SC-2	-	SC 12	Grenades	-	-	-	WS	LC35	-	-	85	-	-
1950-M11	2433582.06	1950 Oct 27 1330	Aerobee XASR-SC-2	-	SC 13	Sampling	-	-	-	WS	LC35	-	-	80	-	-
1950-S19	2433588.19	1950 Nov 2 1629	Aerobee RTV-A-1	-	USAF 8	Airglow	-	-	-	HADC	A	-	-	92	-	-
1950-A62	2433627.21	1950 Dec 11 1704	Aerobee XASR-SC-2	-	SC 15	Probe	-	-	-	WS	LC35	-	-	1	-	-
1950-S25	2433627.67	1950 Dec 12 0406	Aerobee XASR-SC-2	-	SC 14	Grenades	-	-	-	WS	LC35	-	-	84	-	-
1950-M14	2433627.88	1950 Dec 12 0910	Aerobee XASR-SC-2	-	SC 16	Grenades	-	-	-	WS	LC35	-	-	77	-	-
1950-S26	2433628.27	1950 Dec 12 1826	Aerobee RTV-A-1	-	USAF 9	UM T/p	-	-	-	HADC	A	-	-	106	-	-
1950-S27	2433635.29	1950 Dec 19 1852	Aerobee XASR-SC-2	-	SC 17	Sampling	-	-	-	WS	LC35	-	-	82	-	-
1951-S01	2433669.45	1951 Jan 22 2255	Aerobee RTV-N-10	-	A19	Mass spectrometer	-	-	-	WS	LC35	-	-	88	-	-
1951-S02	2433672.12	1951 Jan 25 1500	Aerobee RTV-N-10	-	A20	Ozone	-	-	-	WS	LC35	-	-	90	-	-
1951-S08	2433684.22	1951 Feb 6 1720	Aerobee RTV-N-10	-	A21	Earth photography	-	-	-	WS	LC35	-	-	98	-	-
1951-M03	2433734.47	1951 Mar 28 2314	Aerobee RTV-A-1	-	USAF 10	GRD-2 NaCl release	-	-	-	HADC	A	-	-	66	-	-
1951-A12	2433749.23	1951 Apr 12 1726	Aerobee RTV-A-1	-	USAF 11	Colorado UVS	-	-	-	HADC	A	-	-	29	-	-
1951-M04	2433755.28	1951 Apr 18 1839	Aerobee RTV-A-1	-	USAF 12	Aeromed 1	-	-	-	HADC	A	-	-	61	-	-
1951-A24	2433796.32	1951 May 29 1946	Aerobee RTV-A-1	-	USAF 13	Ionos Propagation	-	-	-	HADC	A	-	-	4	-	-
1951-S09	2433805.51	1951 Jun 8 0011	Aerobee RTV-A-1	-	USAF 14	Solar X/NaCl release	-	-	-	HADC	A	-	-	88	-	-
1951-A28	2433805.55	1951 Jun 8 0118	Aerobee XASR-SC-1	-	SC 19	Probe	-	-	-	WS	LC35	-	-	6	-	-
1951-M05	2433806.76	1951 Jun 9 0611	Aerobee XASR-SC-1	-	SC 18	Grenades	-	-	-	WS	LC35	-	-	67	-	-
1951-M07	2433853.18	1951 Jul 25 1626	Aerobee RTV-A-1	-	USAF 15	Airglow/NLC Imager	-	-	-	HADC	A	-	-	71	-	-
1951-S36	2433866.19	1951 Aug 7 1636	Aerobee RTV-A-1	-	USAF 16	Ionos Propagation	-	-	-	HADC	A	-	-	83	-	-
1951-M08	2433889.44	1951 Aug 30 2240	Aerobee RTV-A-1b	-	USAF 17	Rocket test	-	-	-	HADC	A	-	-	75	-	-
1951-M09	2433902.98	1951 Sep 13 1137	Aerobee RTV-A-1	-	USAF 18	UM T/p	-	-	-	HADC	A	-	-	76	-	-
1951-M10	2433910.19	1951 Sep 20 1631	Aerobee RTV-A-1	-	USAF 19	Aeromed 2	-	-	-	HADC	A	-	-	71	-	-
1951-M11	2433916.50	1951 Sep 27 0006	Aerobee XASR-SC-1	-	SC 21	Sampling	-	-	-	WS	LC35	-	-	69	-	-
1951-S43	2433937.26	1951 Oct 17 1817	Aerobee RTV-A-1a	-	USAF 20	Ionos Propagation	-	-	-	HADC	A	-	-	114	-	-
1951-M12	2433951.91	1951 Nov 1 0945	Aerobee XASR-SC-1	-	SC 20	Grenades	-	-	-	WS	LC35	-	-	66	-	-
1951-S45	2433953.52	1951 Nov 3 0035	Aerobee XASR-SC-1	-	SC 22	Grenades	-	-	-	WS	LC35	-	-	82	-	-
1952-A20	2434042.36	1952 Jan 30 2045	Aerobee RTV-A-1a	-	USAF 21	AF/Utah Ionos 1	-	-	-	HADC	A	-	-	0	-	-
1952-S01	2434062.21	1952 Feb 19 1700	Aerobee RTV-N-10	-	NRL 7	Sunfollower/SX	-	-	-	WS	LC35	-	-	81	-	-
1952-S02	2434072.11	1952 Feb 29 1440	Aerobee RTV-A-1	-	USAF 23	Airglow	-	-	-	HADC	A	-	-	88	-	-
1952-S03	2434125.23	1952 Apr 22 1728	Aerobee RTV-A-1	-	USAF 24	Ionos Propagation	-	-	-	HADC	A	-	-	116	-	-
1952-S04	2434133.06	1952 Apr 30 1330	Aerobee RTV-N-10	-	NRL 8	UV detectors	-	-	-	WS	LC35	-	-	128	-	-
1952-S06	2434134.15	1952 May 1 1542	Aerobee RTV-A-1	-	USAF 25	Solar flux	-	-	-	HADC	A	-	-	91	-	-
1952-S05	2434134.12	1952 May 1 1459	Aerobee RTV-N-10	-	NRL 9	UV detectors	-	-	-	WS	LC35	-	-	126	-	-
1952-S07	2434138.07	1952 May 5 1344	Aerobee RTV-N-10	-	NRL 10	UV detectors	-	-	-	WS	LC35	-	-	127	-	-
1952-M01	2434147.55	1952 May 15 0115	Aerobee XASR-SC-1	-	SC 23	Sphere	-	-	-	WS	LC35	-	-	76	-	-
1952-S08	2434152.59	1952 May 20 0207	Aerobee XASR-SC-1	-	SC 24	Grenades	-	-	-	WS	LC35	-	-	90	-	-
1952-M02	2434154.14	1952 May 21 1515	Aerobee RTV-A-1	-	USAF 26	Aeromed 3	-	-	-	HADC	A	-	-	61	-	-
1952-S10	2434182.24	1952 Jun 18 1750	Aerobee RTV-A-1	-	USAF 27	UV/Opt spectrographs	-	-	-	HADC	A	-	-	100	-	-
1952-S11	2434194.11	1952 Jun 30 1432	Aerobee RTV-A-1	-	USAF 28	AF Airglow 1	-	-	-	HADC	A	-	-	101	-	-
1952-A143	2434251.29	1952 Aug 26 1853	Aerobee RTV-A-1a	-	USAF 29	AF/Utah Ionos 2	-	-	-	HADC	A	-	-	32	-	-
1952-S29	2434259.12	1952 Sep 3 1449	Aerobee RTV-N-10	-	NRL 11	Sunfollower/SX	-	-	-	WS	LC35	-	-	106	-	-
1952-S31	2434280.66	1952 Sep 25 0350	Aerobee XASR-SC-1	-	SC 25	Grenades	-	-	-	WS	LC35	-	-	117	-	-
1952-S32	2434296.10	1952 Oct 10 1424	Aerobee RTV-A-1	-	USAF 30	UV/Opt spectrographs	-	-	-	HADC	A	-	-	101	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-S34	2434308.11	1952 Oct 22 1435	Aerobee RTV-A-1	-	USAF 31	T-day	-	-	-	HADC	A	-	-	100	-	-
1952-S33	2434308.66	1952 Oct 23 0345	Aerobee XASR-SC-2	-	SC 26	Grenades	-	-	-	WS	LC35	-	-	112	-	-
1952-M09	2434323.16	1952 Nov 6 1556	Aerobee RTV-A-1	-	USAF 32	AF Airglow 2	-	-	-	HADC	A	-	-	76	-	-
1952-S39	2434358.49	1952 Dec 11 2347	Aerobee XASR-SC-1	-	SC 29	Sphere	-	-	-	WS	LC35	-	-	105	-	-
1952-S40	2434359.32	1952 Dec 12 1938	Aerobee RTV-A-1	-	USAF 33	Colorado/UVS?	-	-	-	HADC	A	-	-	88	-	-
1953-S01	2434419.38	1953 Feb 10 2109	Aerobee RTV-N-10	-	NRL 12	Mass spectrometer	-	-	-	WS	LC35	-	-	137	-	-
1953-S02	2434420.80	1953 Feb 12 0709	Aerobee RTV-N-10	-	NRL 13	Mass spectrometer	-	-	-	WS	LC35	-	-	137	-	-
1953-S03	2434426.78	1953 Feb 18 0650	Aerobee XASR-SC-2	-	SC 27	Grenades	-	-	-	WS	LC35	-	-	109	-	-
1953-S04	2434427.24	1953 Feb 18 1742	Aerobee RTV-A-1a	-	USAF 34	Heating/beacon test	-	-	-	HADC	A	-	-	117	-	-
1953-S10	2434482.16	1953 Apr 14 1547	Aerobee RTV-A-1a	-	USAF 35	Heating test	-	-	-	HADC	A	-	-	122	-	-
1953-S13	2434491.31	1953 Apr 23 1933	Aerobee XASR-SC-2	-	SC 30	Sphere	-	-	-	WS	LC35	-	-	124	-	-
1953-S12	2434491.93	1953 Apr 24 1019	Aerobee XASR-SC-2	-	SC 28	Grenade	-	-	-	WS	LC35	-	-	108	-	-
1953-S18	2434518.09	1953 May 20 1404	Aerobee RTV-A-1a	-	USAF 36	AF Airglow 3	-	-	-	HADC	A	-	-	114	-	-
1953-S19	2434519.16	1953 May 21 1547	Aerobee RTV-A-1a	-	USAF 37	AF Airglow 4	-	-	-	HADC	A	-	-	114	-	-
1953-S22	2434555.30	1953 Jun 26 1910	Aerobee RTV-A-1a	-	USAF 38	AF/Utah Ionos 3	-	-	-	HADC	A	-	-	135	-	-
1953-S23	2434560.24	1953 Jul 1 1752	Aerobee RTV-A-1a	-	USAF 39	AF/Utah Ionos 4	-	-	-	HADC	A	-	-	138	-	-
1953-S25	2434573.15	1953 Jul 14 1530	Aerobee RTV-A-1a	-	USAF 40	Solar flux	-	-	-	HADC	A	-	-	103	-	-
1953-S26	2434581.91	1953 Jul 23 0947	Aerobee RTV-A-1a	-	USAF 41	Airglow spectrograph	-	-	-	HADC	A	-	-	95	-	-
1953-S31	2434621.71	1953 Sep 1 0505	Aerobee XASR-SC-2	-	SC 32	Grenades	-	-	-	WS	LC35	-	-	108	-	-
1953-S35	2434625.73	1953 Sep 5 0536	Aerobee XASR-SC-1	-	SC 33	Grenades	-	-	-	WS	LC35	-	-	114	-	-
1953-A358	2434636.13	1953 Sep 15 1502	Aerobee RTV-A-1a	-	USAF 42	AF Airglow 5	-	-	-	HADC	A	-	-	32	-	-
1953-M10	2434650.37	1953 Sep 29 2050	Aerobee RTV-A-1a	-	SC 31	Sphere	-	-	-	WS	LC35	-	-	76	-	-
1953-S40	2434658.21	1953 Oct 7 1700	Aerobee RTV-A-1a	-	USAF 43	Solar spectrum	-	-	-	HADC	A	-	-	100	-	-
1953-S59	2434684.27	1953 Nov 2 1832	Aerobee RTV-A-1a	-	USAF 44	AF/Utah Ionos 5	-	-	-	HADC	A	-	-	120	-	-
1953-S60	2434685.26	1953 Nov 3 1815	Aerobee RTV-A-1a	-	USAF 45	AF/Utah Ionos 6	-	-	-	HADC	A	-	-	121	-	-
1953-S64	2434701.44	1953 Nov 19 2240	Aerobee RTV-N-10	-	NRL 14	Oxygen content	-	-	-	WS	LC35	-	-	112	-	-
1953-S66	2434707.16	1953 Nov 25 1546	Aerobee RTV-N-10	-	NRL 15	Oxygen content	-	-	-	WS	LC35	-	-	95	-	-
1953-S68	2434713.15	1953 Dec 1 1530	Aerobee RTV-N-10	-	NRL 16	Oxygen content	-	-	-	WS	LC35	-	-	129	-	-
1954-S02	2434776.27	1954 Feb 2 1835	Aerobee RTV-N-10	-	NRL 20	Sunfollower UVS	-	-	-	WS	LC35	-	-	101	-	-
1954-S08	2434842.38	1954 Apr 9 2112	Aerobee RTV-N-10	-	NRL 18	Mass spectrometer	-	-	-	WS	LC35	-	-	143	-	-
1954-A163	2434842.88	1954 Apr 10 0900	Aerobee RTV-N-10	-	NRL 19	Mass spectrometer	-	-	-	WS	LC35	-	-	5	-	-
1954-S29	2434874.12	1954 May 11 1500	Aerobee RTV-A-1a	-	USAF 46	Beacon test	-	-	-	HADC	A	-	-	98	-	-
1954-S35	2434896.17	1954 Jun 2 1610	Aerobee RTV-A-1a	-	USAF 47	Solar UV spectrum	-	-	-	HADC	A	-	-	93	-	-
1954-S43	2434938.08	1954 Jul 14 1355	Aerobee RTV-A-1a	-	USAF 48	UM wind vanes	-	-	-	HADC	A	-	-	92	-	-
1954-S62	2434966.23	1954 Aug 11 1725	Aerobee RTV-A-1a	-	USAF 49	AF/Utah D-layer	-	-	-	HADC	A	-	-	92	-	-
1954-S70	2435003.10	1954 Sep 17 1431	Aerobee RTV-A-1a	-	USAF 50	Solar flux	-	-	-	HADC	A	-	-	94	-	-
1954-S76	2435021.26	1954 Oct 5 1815	Aerobee RTV-N-10b	-	RTV-N-10b	-	-	-	-	WS	LC35	-	-	158	-	-
1955-S06	2435129.54	1955 Jan 22 0054	Aerobee RTV-A-1a	-	USAF 51	Na Release 1	-	-	-	HADC	A	-	-	94	-	-
1955-S18	2435146.29	1955 Feb 7 1851	Aerobee RTV-A-1a	-	USAF 52	AF/Utah D-layer	-	-	-	HADC	A	-	-	120	-	-
1955-M01	2435149.44	1955 Feb 10 2238	Aerobee RTV-A-1a	-	USAF 53	AF/Utah D-layer	-	-	-	HADC	A	-	-	76	-	-
1955-S19	2435160.27	1955 Feb 21 1825	Aerobee RTV-N-10c	-	NRL 29	Sunfollower/UVS	-	-	-	WS	LC35	-	-	115	-	-
1955-S22	2435185.75	1955 Mar 19 0600	Aerobee RTV-N-10	-	NRL 26	Airglow	-	-	-	WS	LC35	-	-	115	-	-
1955-S23	2435196.20	1955 Mar 29 1647	Aerobee RTV-A-1a	-	USAF 54	Solar FUV/LyA	-	-	-	HADC	A	-	-	112	-	-
1955-S32	2435219.17	1955 Apr 21 1558	Aerobee Hi	-	USAF 55	AJ11-6 test	-	-	-	HADC	A	-	-	198	-	-
1955-S44	2435274.55	1955 Jun 16 0111	Aerobee AJ10-27	-	USAF 56	-	-	-	-	HADC	A	-	-	203	-	-
1955-M02	2435282.03	1955 Jun 23 1240	Aerobee Hi	-	USAF 57	AJ11-6 test	-	-	-	HADC	A	-	-	64	-	-
1955-S55	2435296.86	1955 Jul 8 0839	Aerobee RTV-N-10	-	NRL 23	Mass spectrometers	-	-	-	WS	LC35	-	-	113	-	-
1955-M03	2435301.79	1955 Jul 13 0659	Aerobee RTV-N-10a	-	NRL 27	Mass spectrometers	-	-	-	WS	LC35	-	-	69	-	-
1955-A467	2435345.04	1955 Aug 25 1300	Aerobee Hi	-	NRL 37	XRV-N-13	-	-	-	WS	LC35	-	-	4	-	-
1955-S72	2435365.06	1955 Sep 14 1330	Aerobee AJ10-27	-	USAF 58	UM wind vanes	-	-	-	HADC	A	-	-	95	-	-
1955-M06	2435381.16	1955 Sep 30 1550	Aerobee AJ10-27	-	USAF 59	Colorado UVS	-	-	-	HADC	A	-	-	74	-	-
1955-S93	2435393.54	1955 Oct 13 0100	Aerobee RTV-A-1a	-	USAF 60	Na Release 2	-	-	-	HADC	A	-	-	101	-	-
1955-S96	2435399.45	1955 Oct 18 2249	Aerobee RTV-N-10c	-	NRL 34	Solar La/airglow	-	-	-	WS	LC35	-	-	101	-	-
1955-S97	2435402.51	1955 Oct 22 0020	Aerobee RTV-N-10c	-	NRL 35	Solar La/airglow	-	-	-	WS	LC35	-	-	185	-	-
1955-S101	2435416.15	1955 Nov 4 1530	Aerobee RTV-N-10c	-	NRL 36	Solar La/airglow	-	-	-	WS	LC35	-	-	135	-	-
1955-S102	2435428.89	1955 Nov 17 0915	Aerobee RTV-N-10	-	NRL 25	-	-	-	-	WS	LC35	-	-	105	-	-
1955-S104	2435441.22	1955 Nov 29 1716	Aerobee RTV-N-10	-	NRL 24	Mass spectrometers	-	-	-	WS	LC35	-	-	132	-	-
1955-A495	2435451.12	1955 Dec 9 1450	Aerobee Hi	-	NRL 38	XRV-N-13	-	-	-	WS	LC35	-	-	0?	-	-
1955-S107	2435454.71	1955 Dec 13 0500	Aerobee RTV-N-10a	-	NRL 28	Airglow/Mass spec	-	-	-	WS	LC35	-	-	142	-	-
1955-S108	2435455.25	1955 Dec 13 1758	Aerobee AJ10-27	-	USAF 61	Colorado UVS	-	-	-	HADC	A	-	-	138	-	-
1956-S17	2435545.39	1956 Mar 12 2115	Aerobee RTV-A-1a	-	USAF 62	Release B (NO)	-	-	-	HADC	A	-	-	95	-	-
1956-S18	2435546.86	1956 Mar 14 0845	Aerobee RTV-A-1a	-	USAF 63	Release (NO)	-	-	-	HADC	A	-	-	106	-	-
1956-S22	2435575.59	1956 Apr 12 0205	Aerobee RTV-A-1a	-	USAF 64	Na Release 3	-	-	-	HADC	A	-	-	106	-	-
1956-A50	2435595.42	1956 May 1 2205	Aerobee Hi	-	NRL 39	RV-N-13a	-	-	-	WS	LC35	-	-	4	-	-
1956-S27	2435602.12	1956 May 8 1454	Aerobee AJ10-34	-	USAF 65	FUV spec/La imager	-	-	-	HADC	A	-	-	143	-	-
1956-S28	2435602.14	1956 May 8 1515	Aerobee Hi	-	NRL 42	RV-N-13a	-	-	-	WS	LC35	-	-	188	-	-
1956-S32	2435610.15	1956 May 16 1540	Aerobee Hi	-	USAF 66	AJ11-6 test	-	-	-	HADC	A	-	-	169	-	-
1956-M04	2435629.09	1956 Jun 4 1413	Aerobee Hi	-	NRL 46	RV-N-13a	-	-	-	WS	LC35	-	-	58	-	-
1956-S39	2435638.37	1956 Jun 13 2051	Aerobee AJ10-34	-	USAF 67	E-layer	-	-	-	HADC	A	-	-	138	-	-
1956-S42	2435643.36	1956 Jun 18 2042	Aerobee AJ10-34	-	USAF 68	E-layer	-	-	-	HADC	A	-	-	136	-	-
1956-S43	2435646.28	1956 Jun 21 1848	Aerobee AJ10-34	-	USAF 69	E-layer	-	-	-	HADC	A	-	-	146	-	-
1956-A64	2435647.32	1956 Jun 22 1942	Aerobee RTV-N-10	-	NRL 22	D-region	-	-	-	WS	LC35	-	-	5	-	-
1956-S46	2435651.27	1956 Jun 26 1826	Aerobee AJ10-34	-	USAF 70	E-layer	-	-	-	HADC	A	-	-	111	-	-
1956-S47	2435654.30	1956 Jun 29 1909	Aerobee Hi	-	NRL 50 (RV-N-13b)	D-region	-	-	-	WS	LC35	-	-	264	-	-
1956-S50	2435659.83	1956 Jul 5 0752	Aerobee RTV-N-10c	-	NRL 33	Night airglow/B	-	-	-	WS	LC35	-	-	162	-	-
1956-S70	2435685.54	1956 Jul 31 0056	Aerobee AJ10-34	-	USAF 71	Airglow	-	-	-	HADC	A	-	-	129	-	-
1956-A78	2435689.04	1956 Aug 3 1256	Aerobee RTV-A-1a	-	USAF 72	UV Spectrograph	-	-	-	HADC	A	-	-	2	-	-
1956-S73	2435695.16	1956 Aug 9 1553	Aerobee XASR-SC-1	-	SC 34 (S/N 17)	Sampling	-	-	-	WS	LC35	-	-	85	-	-
1956-S75	2435696.14	1956 Aug 10 1522	Aerobee XASR-SC-1	-	SC 35 (S/N 10)	Sampling	-	-	-	WS	LC35	-	-	85	-	-
1956-S88	2435769.86	1956 Oct 23 0840	Aerobee AJ10-34	-	UM AM2.21	Pressure	IGY AM2.21	-	-	FC	-	-	-	145	-	-
1956-M06	2435779.04	1956 Nov 1 1257	Aerobee AJ10-34	-	USAF 73	Na Release	-	-	-	HADC	A	-	-	66	-	-
1956-S93	2435779.74	1956 Nov 2 0539	Aerobee AJ10-34	-	USAF 74	Na Release 4	-	-	-	HADC	A	-	-	146	-	-
1956-A107	2435782.83	1956 Nov 5 0750	Aerobee Hi	-	NRL 45 (RV-N-13b)	NRL NN3.02	IGY NN3.02	-	-	FC	-	-	-	0	-	-
1956-M08	2435789.99	1956 Nov 12 1147:47	Aerobee RTV-A-1a	-	SM1.01	Grenades	IGY SM1.01	-	-	FC	-	-	-	67	-	-
1956-S100	2435793.31	1956 Nov 15 1932	Aerobee Hi	-	NRL 47 (RV-N-13b)	NRL NN3.07F	IGY NN3.07	-	-	FC	-	-	-	129	-	-
1956-S102	2435795.20	1956 Nov 17 1648	Aerobee Hi	-	NRL 43 (RV-N-13b)	NRL NN3.12	IGY NN3.12	-	-	FC	-	-	-	209	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-S103	2435798.72	1956 Nov 21 0521:11	Aerobee Hi	-	NRL 48 (RV-N-13c)	NRL NN3.17	IGY NN3.17	-	-	FC	-	-	-	250	-	-
1956-S109	2435821.41	1956 Dec 13 2144	Aerobee Hi	-	USAF 75	AJ11-6 Rocket test	-	-	-	HADC	A	-	-	193	-	-
1957-S12	2435871.84	1957 Feb 2 0805	Aerobee AJ10-34	-	USAF 76	Firefly (Ethelyne)	-	-	-	HADC	A	-	-	143	-	-
1957-S21	2435926.70	1957 Mar 29 0451	Aerobee RTV-N-10c	-	NRL 31	NRL NN2.26	IGY NN2.26	-	-	WS	LC35	-	-	135	-	-
1957-M07	2435938.14	1957 Apr 9 1519	Aerobee AJ10-25	-	USAF 77	-	-	-	-	HADC	A	-	-	61	-	-
1957-S24	2435940.19	1957 Apr 11 1631	Aerobee Hi	-	NRL 40 (RV-N-13c)	Vanguard test	-	-	-	WS	LC35	-	-	204	-	-
1957-S30	2435959.13	1957 Apr 30 1510	Aerobee Hi	-	NRL 41 (RV-N-13c)	RV-N-13c test	-	-	-	WS	LC35	-	-	289	-	-
1957-S32	2435962.09	1957 May 3 1404	Aerobee Hi	-	NRL 44 (RV-N-13c)	Sunfollower/UVS	-	-	-	WS	LC35	-	-	204	-	-
1957-S40	2436008.08	1957 Jun 18 1400	Aerobee Hi	-	USAF 78	AU4.26	IGY AU4.26	-	-	HADC	A	-	-	171	-	-
1957-S44	2436015.09	1957 Jun 25 1407	Aerobee Hi	-	USAF 79	AU4.27	IGY AU4.27	-	-	HADC	A	-	-	202	-	-
1957-S55	2436024.26	1957 Jul 4 1815:40	Aerobee Hi	-	NN3.08F	NRL NN3.08F	IGY NN3.08F	-	-	FC	-	-	-	237	-	-
1957-A61	2436024.76	1957 Jul 5 0617:56	Aerobee Hi	-	NN3.09F	NRL NN3.09F	IGY NN3.09F	-	-	FC	-	-	-	16	-	-
1957-S58	2436036.06	1957 Jul 16 1330	Aerobee	-	USAF 80	-	-	-	-	HADC	A	-	-	122	-	-
1957-S60	2436038.10	1957 Jul 18 1430	Aerobee	-	USAF 81	-	-	-	-	HADC	A	-	-	10?	-	-
1957-S63	2436041.68	1957 Jul 22 0416:28	Aerobee	-	SM1.02	Grenades	IGY SM1.02	-	-	FC	-	-	-	92	-	-
1957-S66	2436043.73	1957 Jul 24 0529:50	Aerobee	-	SM1.03	Grenades	IGY SM1.03	-	-	FC	-	-	-	88	-	-
1957-S68	2436049.42	1957 Jul 29 2159	Aerobee Hi	-	NN3.13F	NRL NN3.13F	IGY NN3.13F	-	-	FC	-	-	-	210	-	-
1957-S74	2436057.15	1957 Aug 6 1530	Aerobee AJ10-34	-	USAF 82	Solar UV	IGY AC2.24	-	-	HADC	A	-	-	145	-	-
1957-M10	2436063.17	1957 Aug 12 1559:31	Aerobee	-	SM1.04	Grenades	IGY SM1.04	-	-	FC	-	-	-	74	-	-
1957-S285	2436069.50	1957 Aug 19	Aerobee	-	USAF 83	Na	-	-	-	HADC	A	-	-	178	-	-
1957-S112	2436071.50	1957 Aug 21	Aerobee	-	USAF 84	NO probe	-	-	-	HADC	A	-	-	100?	-	-
1957-A83	2436070.60	1957 Aug 20 0229:51	Aerobee	-	SM1.05 (SC 40)	Grenades	IGY SM1.05	-	-	FC	-	-	-	88	-	-
1957-M11	2436075.60	1957 Aug 25 0229	Aerobee	-	SM2.05	-	[IGY SM2.05]	-	-	FC	-	-	-	51	-	-
1957-S96	2436076.09	1957 Aug 25 1408:05	Aerobee	-	SM2.06	Grenades,Temp, wind	IGY SM2.06	-	-	FC	-	-	-	130	-	-
1957-S104	2436083.44	1957 Sep 1 2228	Aerobee Hi	-	AM4.001	Ion probe	IGY AM4.01	-	-	FC	-	-	-	160	-	-
1957-M12	2436099.09	1957 Sep 17 1404	Aerobee RTV-N-10	-	NRL 21	NRL UV Echelle	IGY NN1.25	-	-	WS	LC35	-	-	51	-	-
1957-S110	2436101.19	1957 Sep 19 1630	Aerobee	-	-	Release A (Cs)	-	-	-	HADC	A	-	-	100?	-	-
1957-S122	2436126.13	1957 Oct 14 1508	Aerobee	-	USAF 87	-	-	-	-	HADC	A	-	-	146	-	-
1957-U01	2436128.71	1957 Oct 17 0505	Aerobee	-	USAF 88	Artificial Meteor	-	-	-	HADC	A	-	-	114	-	-
1957-S139	2436134.50	1957 Oct 23	Aerobee	-	-	-	-	-	-	HADC	A	-	-	100?	-	-
1957-S145	2436136.50	1957 Oct 25	Aerobee	-	-	-	-	-	-	HADC	A	-	-	100?	-	-
1957-S162	2436150.17	1957 Nov 7 1605	Aerobee	-	USAF-89	-	-	-	-	HADC	A	-	-	100?	-	-
1957-S164	2436151.12	1957 Nov 8 1457	Aerobee	-	USAF-90	-	-	-	-	HADC	A	-	-	100?	-	-
1957-S168	2436152.50	1957 Nov 10	Aerobee	-	-	-	-	-	-	HADC	A	-	-	100?	-	-
1957-S171	2436162.19	1957 Nov 19 1629:56	Aerobee	-	Smoke Puff	Release 1, KNO3-Al	-	-	-	HADC	A	-	-	121	-	-
1957-S172	2436169.04	1957 Nov 26 1255	Aerobee	-	-	Na?	-	-	-	HADC	A	-	-	100?	-	-
1957-S178	2436184.67	1957 Dec 12 0400	Aerobee	-	SM1.07	Grenades	IGY SM1.07	-	-	FC	-	-	-	80	-	-
1957-S179	2436187.38	1957 Dec 14 2100	Aerobee	-	SM1.08	Grenades	IGY SM1.08	-	-	FC	-	-	-	97	-	-
1958-S12	2436229.68	1958 Jan 26 0418:56	Aerobee Hi	-	NN3.03F	NRL NN3.03F	IGY NN3.03F	-	-	FC	-	-	-	180	-	-
1958-S13	2436230.75	1958 Jan 27 0604	Aerobee	-	SM1.09	Grenades	IGY SM1.09	-	-	FC	-	-	-	98	-	-
1958-S15	2436231.28	1958 Jan 27 1849	Aerobee	-	SM2.10	Grenades/Sphere	IGY SM2.10	-	-	FC	-	-	-	143	-	-
1958-S19	2436238.25	1958 Feb 3 1802:20	Aerobee Hi	-	NN3.10F	NRL NN3.10F	IGY NN3.10F	-	-	FC	-	-	-	138	-	-
1958-S20	2436238.76	1958 Feb 4 0616:58	Aerobee Hi	-	NN3.11F	NRL NN3.11F	IGY NN3.11F	-	-	FC	-	-	-	234	-	-
1958-S25	2436253.22	1958 Feb 18 1721	Aerobee 100	-	NRL 51	Aerobee Jr	-	-	-	WS	-	-	-	90	-	-
1958-S31	2436256.59	1958 Feb 22 0202:26	Aerobee Hi	-	NN3.18F	NRL NN3.18F	IGY NN3.18F	-	-	FC	-	-	-	225	-	-
1958-S33	2436258.79	1958 Feb 24 0659:58	Aerobee Hi	-	NN3.14F	NRL NN3.14F	IGY NN3.14F	-	-	FC	-	-	-	207	-	-
1958-S41	2436278.70	1958 Mar 16 0454:15	Aerobee Hi	-	NN3.04	NRL NN3.04	IGY NN3.04F	-	-	FC	-	-	-	144	-	-
1958-S38	2436281.55	1958 Mar 19 0112	Aerobee	-	USAF-93	NO/O2 composition	IGY AA1.25	-	-	HADC	A	-	-	93	-	-
1958-S43	2436283.50	1958 Mar 21	Aerobee	-	-	-	-	-	-	HADC	A	-	-	100?	-	-
1958-S44	2436284.78	1958 Mar 22 0641:17	Aerobee Hi	-	NN3.05	-	IGY NN3.05F	-	-	FC	-	-	-	168	-	-
1958-S46	2436286.25	1958 Mar 23 1807:08	Aerobee Hi	-	NN3.19F	Neutral gas	IGY NN3.19F	-	-	FC	-	-	-	202	-	-
1958-S61	2436329.09	1958 May 5 1415	Aerobee Hi	-	NN3.22F	-	IGY NN3.22F	-	-	WS	LC35	-	-	214	-	-
1958-S80	2436359.14	1958 Jun 4 1515	Aerobee Hi	-	-	Solar EUV Spectrum	-	-	-	HADC	A	-	-	200	-	-
1958-S92	2436388.20	1958 Jul 3 1652	Aerobee	-	AU3.07F	Charge density	IGY AU3.07F	-	-	FC	-	-	-	262	-	-
1958-S93	2436391.00	1958 Jul 6 1202:18	Aerobee	-	AU3.10F	Charge density	IGY AU3.10F	-	-	FC	-	-	-	250	-	-
1958-S98	2436396.27	1958 Jul 11 1830:07	Aerobee	-	AU3.11F	Charge density	IGY AU3.11F	-	-	FC	-	-	-	243	-	-
1958-S158	2436428.50	1958 Aug 13	Aerobee	-	-	-	-	-	-	HADC	A	-	-	100?	-	-
1958-S163	2436431.16	1958 Aug 15 1545	Aerobee	-	-	-	-	-	-	HADC	A	-	-	200	-	-
1958-S228	2436491.54	1958 Oct 15 0104:36	Aerobee Hi	-	AM4.012	Vehicle test	IGY AM4.12	-	-	FC	-	-	-	156	-	-
1958-S236	2436499.20	1958 Oct 22 1647:18	Aerobee 300	-	AA10.01	-	IGY AA10.01	-	-	FC	-	-	-	177	-	-
1958-S238	2436502.31	1958 Oct 25 1928	Aerobee 300	-	AA10.02	-	IGY AA10.02	-	-	FC	-	-	-	418	-	-
1958-S242	2436508.33	1958 Oct 31 1959:14	Aerobee Hi	-	NN3.15F	-	IGY NN3.15F	-	-	FC	-	-	-	188	-	-
1958-S247	2436511.18	1958 Nov 3 1620:05	Aerobee Hi	-	NN3.20F	Composition	IGY NN3.20F	-	-	FC	-	-	-	211	-	-
1958-S257	2436523.79	1958 Nov 16 0656:53	Aerobee Hi	-	NN3.06F	Auroral particles	IGY NN3.06F	-	-	FC	-	-	-	163	-	-
1958-S268	2436531.77	1958 Nov 24 0623:34	Aerobee Hi	-	NN3.21F	Electron density	IGY NN3.21F	-	-	FC	-	-	-	207	-	-
1958-S271	2436537.19	1958 Nov 29 1630:30	Aerobee Hi	-	NN3.16F	Auroral/UV Phot	IGY NN3.16F	-	-	FC	-	-	-	202	-	-
1958-S274	2436538.28	1958 Nov 30 1836:36	Aerobee 300	-	ABM10.200	Te probe	IGY ABM10.200	-	-	FC	-	-	-	304	-	-
1958-S276	2436539.32	1958 Dec 1 1934:40	Aerobee 300	-	NN10.001	Field/ne probe	IGY NN10.01	-	-	FC	-	-	-	97	-	-
1958-S278	2436541.28	1958 Dec 3 1838:44	Aerobee 300	-	NN10.002	Field/ne probe	IGY NN10.02	-	-	FC	-	-	-	225	-	-
1959-S14	2436605.11	1959 Feb 5 1445	Aerobee 150	-	AA3.100C	Expt 5.2	-	-	-	HADC	A	-	-	212	-	-
1959-S18	2436627.16	1959 Feb 27 1544	Aerobee	-	AA3.120C	Expt 6.5	-	-	-	HADC	A	-	-	210	-	-
1959-S26	2436640.16	1959 Mar 12 1544	Aerobee Hi	-	AA3.121C	Expt 6.5	-	-	-	HADC	A	-	-	210	-	-
1959-S30	2436641.16	1959 Mar 13 1545:00	Aerobee Hi	-	NN3.24F	-	IGY NN3.24F	-	-	WS	LC35	-	-	170	-	-
1959-S39	2436658.13	1959 Mar 30 1501	Aerobee 150	-	AA3.140C	Solar EUV Spectrum	-	-	-	HADC	A	-	-	201	-	-
1959-S40	2436658.20	1959 Mar 30 1645	Aerobee 150	-	NRL 52	-	-	-	-	WS	LC35	-	-	238	-	-
1959-S44	2436666.12	1959 Apr 7 1446	Aerobee 150	-	AA3.160C	-	-	-	-	WS	LC35	-	-	317	-	-
1959-S48	2436674.12	1959 Apr 15 1446	Aerobee 150	-	AA3.180C	-	-	-	-	HADC	A	-	-	100?	-	-
1959-S53	2436679.55	1959 Apr 21 0105	Aerobee 150	-	AA3.181C	-	-	-	-	HADC	A	-	-	235	-	-
1959-S61	2436693.57	1959 May 5 0145	Aerobee AJ10-34	-	AA2.141C	-	-	-	-	WS	LC35	-	-	132	-	-
1959-S69	2436700.99	1959 May 12 1139	Aerobee 150	-	AA3.200C	-	-	-	-	HADC	A	-	-	145	-	-
1959-S75	2436710.97	1959 May 22 1115	Aerobee 150	-	AA3.201C	-	-	-	-	HADC	A	-	-	100?	-	-
1959-S84	2436730.19	1959 Jun 10 1640	Aerobee 150	-	AA3.280C	-	-	-	-	HADC	A	-	-	225	-	-
1959-S94	2436742.11	1959 Jun 22 1432	Aerobee	-	AA1.260C	-	-	-	-	HADC	A	-	-	110	-	-
1959-S95	2436744.01	1959 Jun 24 1210	Aerobee 150	-	AA3.220C	-	-	-	-	HADC	A	-	-	200	-	-
1959-S118	2436771.08	1959 Jul 21 1400	Aerobee Hi	-	NN3.23F	-	IGY NN3.23F	-	-	WS	LC35	-	-	197	-	-
1959-S145	2436802.53	1959 Aug 22 0045	Aerobee 150	-	AA3.101C	-	-	-	-	WS	LC35	-	-	230	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S156	2436809.28	1959 Aug 28 1845	Aerobee 150	-	AA3.122C	EUV/RPA	-	-	-	WS	LC35	-	-	235	-	-
1959-S168	2436823.30	1959 Sep 11 1912	Aerobee 150	-	NASA 04.08GI	-	-	-	-	FC	-	-	-	227	-	-
1959-S170	2436826.23	1959 Sep 14 1727	Aerobee 150	-	NASA 04.07GI	-	-	-	-	FC	-	-	-	218	-	-
1959-S171	2436826.50	1959 Sep 15	Aerobee	-	-	-	-	-	-	WS	LC35	-	-	200?	-	-
1959-S176	2436829.28	1959 Sep 17 1837	Aerobee 150	-	NASA 04.02II	DRTE.01	-	-	-	FC	-	-	-	256	-	-
1959-S181	2436832.23	1959 Sep 20 1735	Aerobee 150	-	NASA 04.03II	DRTE.02	-	-	-	FC	-	-	-	100?	-	-
1959-S183	2436833.50	1959 Sep 22	Aerobee 100	-	AA1.260C	-	-	-	-	WS	LC35	-	-	110	-	-
1959-S206	2436852.00	1959 Oct 10 1200	Aerobee AJ10-34	-	AA2.102C	-	-	-	-	WS	LC35	-	-	111	-	-
1959-S216	2436862.10	1959 Oct 20 1425	Aerobee AJ10-34	-	AA2.240C	-	-	-	-	WS	-	-	-	113	-	-
1959-S223	2436867.24	1959 Oct 25 1744	Aerobee 300	-	AA10.184C	Utah ne probe	-	-	-	FC	-	-	-	386	-	-
1959-S225	2436870.12	1959 Oct 28 1447	Aerobee 300	-	AA10.185C	Utah ne probe	-	-	-	FC	-	-	-	135	-	-
1959-S237	2436878.81	1959 Nov 6 0725	Aerobee 150	-	NN2.78C	Airglow	-	-	-	WS	LC35	-	-	142	-	-
1959-S236	2436879.19	1959 Nov 6 1636	Aerobee 300	-	AA10.187C	Utah ne probe	-	-	-	FC	-	-	-	393	-	-
1959-S240	2436887.44	1959 Nov 14 2238	Aerobee 300	-	AA10.165C	GRD sphere	-	-	-	FC	-	-	-	138	-	-
1959-S245	2436891.82	1959 Nov 19 0744	Aerobee 150	-	AA3.282C	B field profile	-	-	-	FC	-	-	-	106	-	-
1959-A192	2436895.27	1959 Nov 22 1835	Aerobee 300	-	AA10.186C	UM ionos probe	-	-	-	FC	-	-	-	35	-	-
1959-S256	2436902.92	1959 Nov 30 0958?	Aerobee	-	NRL 30	-	-	-	-	WS	-	-	-	140	-	-
1960-S10	2436947.50	1960 Jan 14	Aerobee 300	-	TATTLETALE PCC 1	-	-	-	-	EGL	-	-	-	100?	-	-
1960-S15	2436953.26	1960 Jan 19 1818	Aerobee 150	-	AA3.124C	EUV monochromator	-	-	-	WS	LC35	-	-	210	-	-
1960-S26	2436963.29	1960 Jan 29 1851	Aerobee 150	-	AA3.125C	EUV monochromator	-	-	-	WS	LC35	-	-	226	-	-
1960-S35	2436977.53	1960 Feb 13 0043	Aerobee AJ10-34	-	AA2.143C	UV airglow spectra	-	-	-	WS	LC35	-	-	143	-	-
1960-S36	2436980.50	1960 Feb 16	Aerobee 300	-	TATTLETALE PCC 2	-	-	-	-	EGL	-	-	-	100?	-	-
1960-A48	2436981.37	1960 Feb 16 2048	Aerobee 150	-	NASA 04.01GT	-	-	-	-	WI	-	-	-	3	-	-
1960-S40	2436991.79	1960 Feb 27 0653	Aerobee Hi	-	AA4.360C	JHU Aurora 1	-	-	-	FC	-	-	-	117	-	-
1960-S52	2437009.50	1960 Mar 16	Aerobee 300	-	TATTLETALE PCC 3	-	-	-	-	EGL	-	-	-	100?	-	-
1960-S53	2437010.39	1960 Mar 16 2125	Aerobee 300	-	NASA 06.01UI	UM ionos probe	-	-	-	FC	-	-	-	337	-	-
1960-S64	2437019.28	1960 Mar 25 1840	Aerobee 150A	-	NASA 04.12GT	-	-	-	-	WI	-	-	-	212	-	-
1960-S71	2437031.59	1960 Apr 7 0206	Aerobee 150	-	AA3.221	IR studies	-	-	-	EGL	-	-	-	236	-	-
1960-S76	2437044.09	1960 Apr 19 1415	Aerobee Hi	-	NN3.60	NN3.60 Pinhole cam	-	-	-	WS	-	-	-	222	-	-
1960-S80	2437046.12	1960 Apr 21 1500	Aerobee 150	-	AA3.283C	Magnetometer	-	-	-	EGL	-	-	-	245	-	-
1960-S82	2437048.41	1960 Apr 23 2145	Aerobee 150A	-	NASA 04.10GT	-	-	-	-	WI	-	-	-	246	-	-
1960-S84	2437051.68	1960 Apr 27 0418	Aerobee 150	-	NASA 04.04GG	UV star photometer	-	-	-	WI	-	-	-	200?	-	-
1960-S90	2437054.16	1960 Apr 29 1547	Aerobee 150A	-	NASA 04.09GA	Composition	-	-	-	WI	-	-	-	242	-	-
1960-S103	2437079.19	1960 May 24 1640	Aerobee 150	-	AA3.183C	-	-	-	-	EGL	-	-	-	269	-	-
1960-S108	2437081.67	1960 May 27 0405	Aerobee 150	-	NRL 59	(NRL 49?)	-	-	-	WS	LC35	-	-	193	-	-
1960-S109	2437081.73	1960 May 27 0530	Aerobee 150A	-	NASA 04.05GG	UV star photometer	-	-	-	WI	-	-	-	215	-	-
1960-S129	2437101.16	1960 Jun 15 1545	Aerobee 150	-	NC3.107	NRL-57	-	-	-	WS	-	-	-	224	-	-
1960-S130	2437101.46	1960 Jun 15 2256	Aerobee 300	-	NASA 06.02UI	UM ionos probe	-	-	-	FC	-	-	-	321	-	-
1960-S145	2437109.77	1960 Jun 24 0625	Aerobee 150A	-	NASA 04.06GG	UV star photometer	-	-	-	WI	-	-	-	211	-	-
1960-S149	2437113.05	1960 Jun 27 1315	Aerobee 150	-	NC3.108	NRL-58	-	-	-	WS	LC35	-	-	222	-	-
1960-S160	2437117.11	1960 Jul 1 1435	Aerobee 150	-	AA3.107	-	-	-	-	WS	LC35	-	-	162	-	-
1960-A171	2437143.34	1960 Jul 27 2003	Aerobee 300	-	TATTLETALE PCC 4	AF-49	-	-	-	EGL	A-11	-	-	5	-	-
1960-S217	2437149.06	1960 Aug 2 1330	Aerobee 150	-	NN2.32	-	-	-	-	WS	LC35	-	-	148	-	-
1960-S218	2437150.18	1960 Aug 3 1626	Aerobee 300A	-	NASA 06.03UI	UM ionospheric	-	-	-	WI	-	-	-	415	-	-
1960-S227	2437156.50	1960 Aug 10	Aerobee 300	-	TATTLETALE PCC 5	-	-	-	-	EGL	-	-	-	383	-	-
1960-S249	2437170.21	1960 Aug 23 1701	Aerobee 150A	-	NASA 04.16UE	-	-	-	-	WI	-	-	-	190	-	-
1960-S250	2437170.22	1960 Aug 23 1710	Aerobee 150	-	AA3.128	-	-	-	-	WS	LC35	-	-	237	-	-
1960-S259	2437177.50	1960 Aug 31	Aerobee 300	-	TATTLETALE PCC 6	-	-	-	-	EGL	-	-	-	100	-	-
1960-S271	2437193.08	1960 Sep 15 1401	Aerobee 100	-	AA1.126	Solar Constant	-	-	-	WS	LC35	-	-	102	-	-
1960-M27	2437193.26	1960 Sep 15 1809	Aerobee 100	-	NASA 01.03GP	AMPP	-	-	-	FC	-	-	-	76	-	-
1960-M28	2437202.26	1960 Sep 24 1813	Aerobee 100	-	NASA 01.05GP	AMPP	-	-	-	FC	-	-	-	76	-	-
1960-S277	2437198.04	1960 Sep 20 1255	Aerobee 150	-	AA3.142	Thermal/CR	-	-	-	WS	LC35	-	-	195	-	-
1960-S289	2437205.42	1960 Sep 27 2210	Aerobee 150	-	AA3.102	CR/Airglow	-	-	-	WS	LC35	-	-	100?	-	-
1960-S308	2437213.33	1960 Oct 5 1952	Aerobee 150	-	NASA 04.43GP	AMPP	-	-	-	FC	-	-	-	225	-	-
1960-S355	2437248.61	1960 Nov 10 0235	Aerobee 150	-	ND3.101	-	-	-	-	WS	LC35	-	-	211	-	-
1960-S363	2437254.20	1960 Nov 15 1641	Aerobee 150A	-	NASA 04.14GA	Composition	-	-	-	WI	-	-	-	227	-	-
1960-S372	2437256.07	1960 Nov 17 1340	Aerobee 150	-	AA3.144	UV detector	-	-	-	WS	LC35	-	-	217	-	-
1960-S377	2437260.86	1960 Nov 22 0842	Aerobee 150A	-	NASA 04.11GG	UV Spectrograph	-	-	-	WI	-	-	-	183	-	-
1960-S378	2437261.93	1960 Nov 23 1019	Aerobee 100	-	NASA 01.01GI	OkSU quiet night	-	-	-	FC	-	-	-	91	-	-
1960-S382	2437266.24	1960 Nov 27 1748	Aerobee 100	-	NASA 01.02GI	OkSU quiet day	-	-	-	FC	-	-	-	85	-	-
1960-S383	2437267.97	1960 Nov 29 1116	Aerobee 150	-	NB3.103	NRL NB3.103	-	-	-	WS	LC35	-	-	197	-	-
1960-S391	2437268.71	1960 Nov 30 0501	Aerobee 150	-	AA3.284	MHD waves	-	-	-	FC	-	-	-	241	-	-
1961-S28	2437330.47	1961 Jan 30 2320	Aerobee 150	-	AA3.370	Mass spectrometer	-	-	-	EGL	-	-	-	204	-	-
1961-S36	2437336.08	1961 Feb 5 1348	Aerobee 150A	-	NASA 04.38NP	LeRC LH2 test	-	-	-	WI	-	-	-	152	-	-
1961-S52	2437348.29	1961 Feb 17 1904	Aerobee 150	-	AA3.129	EUV Monochromator	-	-	-	EGL	-	-	-	275	-	-
1961-S74	2437367.20	1961 Mar 8 1653	Aerobee 300	-	AA10.192	Ne/RPA	-	-	-	EGL	-	-	-	400?	-	-
1961-S92	2437385.20	1961 Mar 26 1654	Aerobee 300A	-	NASA 06.04UI	UM ionospheric	-	-	-	WI	-	-	-	386	-	-
1961-M08	2437389.62	1961 Mar 31 0250	Aerobee 150A	-	NASA 04.34GG	UV star photometer	-	-	-	WI	-	-	-	72	-	-
1961-S110	2437404.22	1961 Apr 14 1715	Aerobee 150A	-	NASA 04.19GT	Attitude control	-	-	-	WI	-	-	-	206	-	-
1961-S111	2437407.69	1961 Apr 18 0440	Aerobee 150	-	NB3.104	NRL NB3.104	-	-	-	WS	LC35	-	-	242	-	-
1961-S124	2437411.00	1961 Apr 21 1200	Aerobee 150A	-	NASA 04.39NP	LeRC LH2 test	-	-	-	WI	-	-	-	154	-	-
1961-S144	2437436.16	1961 May 16 1545	Aerobee 150	-	AA3.145	-	-	-	-	WS	LC35	-	-	294	-	-
1961-S145	2437436.21	1961 May 16 1700	Aerobee 150	-	AA3.127	-	-	-	-	WS	LC35	-	-	312	-	-
1961-M15	2437437.31	1961 May 17 1922	Aerobee 100	-	NASA 01.04GP	AMPP FU6	-	-	-	FC	-	-	-	76	-	-
1961-A127	2437439.25	1961 May 19 1803	Aerobee 100	-	NASA 01.06GP	AMPP FU5	-	-	-	FC	-	-	-	23	-	-
1961-S158	2437444.50	1961 May 25	Aerobee 150	-	-	-	-	-	-	WS	LC35	-	-	200?	-	-
1961-S167	2437457.02	1961 Jun 6 1231	Aerobee 150	-	AA3.108	Venus Flytrap	-	-	-	WS	LC35	-	-	165	-	-
1961-S181	2437467.81	1961 Jun 17 0729	Aerobee 150	-	ND3.112	NRL ND3.112	-	-	-	WS	LC35	-	-	197	-	-
1961-S184	2437472.11	1961 Jun 21 1445	Aerobee 150	-	NE3.102	NRL NE3.102	-	-	-	WS	LC35	-	-	271	-	-
1961-S189	2437477.14	1961 Jun 26 1515	Aerobee 150A	-	NASA 04.20GT	Attitude control	-	-	-	WI	-	-	-	187	-	-
1961-S242	2437523.96	1961 Aug 12 1057	Aerobee 150A	-	NASA 04.42NP	LeRC LH2 test	-	-	-	WI	-	-	-	153	-	-
1961-S244	2437527.22	1961 Aug 15 1721	Aerobee 150	-	AA3.130	EUV Monochromator	-	-	-	WS	LC35	-	-	271	-	-
1961-S253	2437535.21	1961 Aug 23 1702	Aerobee 150	-	-	EUV Mon/XR counter	-	-	-	WS	LC35	-	-	225	-	-
1961-S258	2437541.11	1961 Aug 29 1435	Aerobee 150	-	NE3.110	NRL UV Echelle	-	-	-	WS	-	-	-	260	-	-
1961-M26	2437566.27	1961 Sep 23 1827	Aerobee 100	-	NASA 01.08GA	Air sampler	-	-	-	FC	-	-	-	78	-	-
1961-M27	2437570.02	1961 Sep 27 1230	Aerobee 150	-	AA2.502	CWAS	-	-	-	WS	LC35	-	-	59	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S316	2437573.10	1961 Sep 30 1430	Aerobee 150	-	NASA 04.25US	OSO spectrometer	-	-	-	WI	-	-	-	223	-	-
1961-M28	2437573.36	1961 Sep 30 2042	Aerobee 100	-	NASA 01.09GA	Air sampler	-	-	-	FC	-	-	-	73	-	-
1961-S331	2437585.06	1961 Oct 12 1321	Aerobee 150	-	AA3.146	UV absorption	-	-	-	WS	LC35	-	-	192	-	-
1961-S332	2437586.50	1961 Oct 14	Aerobee 150	-	[Spurious?]	Lunar X-ray	-	-	-	WS	LC35	-	-	200?	-	-
1961-M30	2437588.11	1961 Oct 15 1433	Aerobee 100	-	NASA 01.10GA	Air sampler	-	-	-	FC	-	-	-	76	-	-
1961-M31	2437590.34	1961 Oct 17 2011	Aerobee 100	-	NASA 01.07GA	Air sampler	-	-	-	FC	-	-	-	65	-	-
1961-S336	2437591.06	1961 Oct 18 1325	Aerobee 150A	-	NASA 04.40NP	LeRC LH2 test	-	-	-	WI	-	-	-	152	-	-
1961-S350	2437597.79	1961 Oct 25 0659	Aerobee 150	-	AB3.351	AS&E-2	-	-	-	WS	LC35	-	-	232	-	-
1961-S364	2437604.62	1961 Nov 1 0300	Aerobee 150	-	ND3.122	-	-	-	-	WS	LC35	-	-	212	-	-
1961-M32	2437606.23	1961 Nov 2 1724	Aerobee 100	-	NASA 01.11GA	Air sampler	-	-	-	FC	-	-	-	68	-	-
1961-M33	2437609.34	1961 Nov 5 2011	Aerobee 100	-	NASA 01.12GA	Air sampler	-	-	-	FC	-	-	-	71	-	-
1961-S399	2437634.22	1961 Nov 30 1710	Aerobee 150	-	NE3.123	-	-	-	-	WS	LC35	-	-	238	-	-
1961-S413	2437641.47	1961 Dec 7 2315	Aerobee 150	-	AB3.344	Sphere	-	-	-	EGL	-	-	-	234	-	-
1961-S422	2437647.00	1961 Dec 13 1200	Aerobee 150	-	AB3.110	Micrometorites	-	-	-	WS	LC35	-	-	246	-	-
1961-S428	2437649.21	1961 Dec 15 1700	Aerobee 150	-	AB3.140	HR Solar Spectra	-	-	-	WS	LC35	-	-	169	-	-
1961-S434	2437655.68	1961 Dec 22 0424	Aerobee 300A	-	NASA 06.05UI	UM Ionospheric	-	-	-	WI	-	-	-	365	-	-
1962-S13	2437678.18	1962 Jan 13 1615	Aerobee 150A	-	NASA 04.68GT	Attitude control	-	-	-	WI	-	-	-	209	-	-
1962-S15	2437680.50	1962 Jan 16	Aerobee 150	-	-	EUV Mon/XR counter	-	-	-	WS	LC35	-	-	200?	-	-
1962-A18	2437702.69	1962 Feb 7 0438	Aerobee 150A	-	NASA 04.35GG	UV Spectrograph	-	-	-	WI	-	-	-	4	-	-
1962-S42	2437713.32	1962 Feb 17 1943	Aerobee 150	-	NASA 04.41NP	LeRC LH2 test	-	-	-	WI	-	-	-	157	-	-
1962-S63	2437730.06	1962 Mar 6 1330	Aerobee 150	-	AB3.150	UV Absorption	-	-	-	WS	LC35	-	-	323	-	-
1962-M02	2437743.15	1962 Mar 19 1530	Aerobee 150A	-	NASA 04.18GA	Structure	-	-	-	WI	-	-	-	79	-	-
1962-S102	2437772.22	1962 Apr 17 1720	Aerobee 150	-	NA3.114F?	-	-	-	-	WS	-	-	-	286	-	-
1962-S119	2437786.30	1962 May 1 1918	Aerobee 100	-	AA1.193	Gyro interaction	-	-	-	EGL	-	-	-	94	-	-
1962-S120	2437787.45	1962 May 2 2253	Aerobee 150	-	AA3.361	Day airglow	-	-	-	WS	LC35	-	-	275	-	-
1962-S127	2437793.13	1962 May 8 1505	Aerobee 150	-	NASA 04.46NP	JPL Rocket Radar 1	-	-	-	WS	LC35	-	-	196	-	-
1962-S142	2437810.03	1962 May 25 1243	Aerobee 150A	-	NASA 04.48GT	Sea recovery test	-	-	-	WI	-	-	-	200	-	-
1962-S167	2437821.03	1962 Jun 5 1245	Aerobee 150	-	AB3.133	EUV Monochromator	-	-	-	WS	LC35	-	-	216	-	-
1962-S183	2437828.40	1962 Jun 12 2130	Aerobee 150	-	AB3.134	EUV Monochromator	-	-	-	WS	LC35	-	-	299	-	-
1962-S194	2437834.79	1962 Jun 19 0659	Aerobee 150	-	AB3.352	AS&E-3 (Sco X-1)	-	-	-	WS	LC35	-	-	224	-	-
1962-S196	2437836.06	1962 Jun 20 1329	Aerobee 150A	-	NASA 04.26NP	LeRC LH2 test	-	-	-	WI	-	-	-	158	-	-
1962-S216	2437844.70	1962 Jun 29 0455	Aerobee 150A	-	NASA 04.71UA/UP	JHU Airglow 1	-	-	-	WI	-	-	-	208	-	-
1962-S210	2437845.38	1962 Jun 29 2100	Aerobee 150A	-	NASA 04.72UP	JHU Airglow 2	-	-	-	WI	-	-	-	210	-	-
1962-S237	2437856.12	1962 Jul 10 1500	Aerobee 150	-	NASA 04.47NP	JPL Rocket Radar 2	-	-	-	WS	LC35	-	-	200	-	-
1962-S256	2437870.01	1962 Jul 24 1209:00	Aerobee 150A	-	-	-	-	-	-	EGL	-	-	-	100?	-	-
1962-S258	2437870.40	1962 Jul 24 2141	Aerobee 150	-	NASA 04.23US	Ly alpha test	-	-	-	WI	-	-	-	208	-	-
1962-S284	2437885.20	1962 Aug 8 1655	Aerobee 150	-	NASA 04.60GT	Attitude control	-	-	-	WI	-	-	-	149	-	-
1962-S306	2437899.15	1962 Aug 22 1530	Aerobee 150	-	NE3.128	-	-	-	-	WS	LC35	-	-	234	-	-
1962-M22	2437914.10	1962 Sep 6 1430	Aerobee 100	-	NASA 01.13NA	UV Airglow	-	-	-	WS	LC35	-	-	74	-	-
1962-S331	2437919.48	1962 Sep 11 2324	Aerobee 150	-	AC3.322	Day Airglow	-	-	-	WS	LC35	-	-	306	-	-
1962-S342	2437929.60	1962 Sep 22 0224	Aerobee 150A	-	NASA 04.36GG	UV Photometer	-	-	-	WI	-	-	-	187	-	-
1962-S348	2437935.25	1962 Sep 27 1800	Aerobee 150	-	AB3.246	Electric structure	-	-	-	WS	LC35	-	-	260	-	-
1962-S377	2437937.75	1962 Sep 30 0602	Aerobee 150A	-	NASA 04.69CG	Lockheed XR	-	-	-	WI	-	-	-	171	-	-
1962-S388	2437950.79	1962 Oct 13 0659	Aerobee 150	-	AC3.353	AS&E-4	-	-	-	WS	LC35	-	-	317	-	-
1962-S424	2437963.48	1962 Oct 25 2328	Aerobee 150	-	AC3.138	EUV Mon/XR/RPA	-	-	-	WS	LC35	-	-	213	-	-
1962-S440	2437967.58	1962 Oct 30 0150	Aerobee 150A	-	NASA 04.54UG	OAO sensors	-	-	-	WI	-	-	-	188	-	-
1962-S468	2437975.32	1962 Nov 6 1945	Aerobee 150	-	AC3.148	HR solar spectrum	-	-	-	WS	LC35	-	-	308	-	-
1962-S474	2437979.54	1962 Nov 11 0103:00	Aerobee 150	-	AC3.452	Firefly III FANNY	-	-	-	EGL	AT	-	-	260	-	-
1962-S476	2437982.44	1962 Nov 13 2230:00	Aerobee 150	-	AC3.453	Firefly III GILDA	-	-	-	EGL	AT	-	-	253	-	-
1962-S479	2437984.56	1962 Nov 16 0126:00	Aerobee 150	-	AC3.449 (SF6)	Firefly III KAREN	-	-	-	EGL	AT	-	-	234	-	-
1962-A195	2437984.68	1962 Nov 16 0422	Aerobee 150A	-	NASA 04.79II	CSIRO VLF 1	-	-	-	WI	-	-	-	29	-	-
1962-S481	2437986.71	1962 Nov 18 0457	Aerobee 150A	-	NASA 04.27NP	LeRC LH2 test	-	-	-	WI	-	-	-	206	-	-
1962-A202	2437989.20	1962 Nov 20 1655	Aerobee 100	-	NASA 01.14NA	UV Airglow	-	-	-	WS	LC35	-	-	20	-	-
1962-S484	2437989.40	1962 Nov 20 2141:30	Aerobee 300A	-	NASA 06.06GA	Thermosphere Probe 1	-	-	-	WI	-	-	-	345	-	-
1962-S495	2437996.25	1962 Nov 27 1800	Aerobee 150	-	NASA 04.21US	-	-	-	-	WS	LC35	-	-	203	-	-
1962-S546	2438006.55	1962 Dec 8 0108:00	Aerobee 150	-	AC3.450	Firefly III LAURA	-	-	-	EGL	AT	-	-	220	-	-
1962-M40	2438009.57	1962 Dec 11 0136	Aerobee 150A	-	NASA 04.80II	CSIRO VLF 2	-	-	-	WI	-	-	-	52	-	-
1962-A223	2438012.22	1962 Dec 13 1723	Aerobee 150A	-	NASA 04.74UA	JHU Airglow 3	-	-	-	WI	-	-	-	0	-	-
1962-S567	2438014.23	1962 Dec 15 1730:00	Aerobee 150	-	AC3.451 (SF6)	Firefly III MARTHA	-	-	-	EGL	AT	-	-	222	-	-
1962-S570	2438017.32	1962 Dec 18 1945	Aerobee 150	-	AC3.139	EUV Mon/RPA	-	-	-	WS	LC35	-	-	224	-	-
1963-A16	2438059.19	1963 Jan 29 1627	Aerobee 150A	-	NASA 04.73UA	JHU Airglow 4	-	-	-	WI	-	-	-	4	-	-
1963-S51	2438074.52	1963 Feb 14 0030	Aerobee 150	-	AB3.345	Sphere	-	-	-	EGL	-	-	-	234	-	-
1963-S53	2438076.19	1963 Feb 15 1634	Aerobee 150	-	NC3.134	Bennett Mass Spec	-	-	-	WS	LC35	-	-	239	-	-
1963-S55	2438079.24	1963 Feb 18 1743	Aerobee 150	-	NE3.140	-	-	-	-	WS	LC35	-	-	306	-	-
1963-S65	2438086.50	1963 Feb 26	Aerobee 150	-	-	Mass spectrometer	-	-	-	WS	LC35	-	-	200?	-	-
1963-S81	2438095.44	1963 Mar 6 2230	Aerobee 150	-	AC3.372	Mass spectrometer	-	-	-	WS	LC35	-	-	228	-	-
1963-S101	2438104.60	1963 Mar 16 0219	Aerobee 150A	-	NASA 04.70CG	Lockheed XR 2	-	-	-	WI	-	-	-	201	-	-
1963-S106	2438108.25	1963 Mar 19 1800	Aerobee 150	-	AC3.149	UV absorption	-	-	-	WS	LC35	-	-	99	-	-
1963-S116	2438116.51	1963 Mar 28 0015	Aerobee 150	-	NASA 04.30GG	UV geocorona?	-	-	-	WS	LC35	-	-	300	-	-
1963-S132	2438123.20	1963 Apr 3 1646	Aerobee 150A	-	NASA 04.58UI	EOGO VLF test	-	-	-	WI	-	-	-	237	-	-
1963-S134	2438124.12	1963 Apr 4 1500	Aerobee 150	-	NB3.118	Solar XR Spectrum 1	-	-	-	WS	LC35	-	-	205	-	-
1963-S147	2438131.73	1963 Apr 12 0530	Aerobee 150A	-	NASA 04.96II	CSIRO VLF 3	-	-	-	WI	-	-	-	198	-	-
1963-S148	2438132.08	1963 Apr 12 1400	Aerobee 150	-	KP3.1	Visible Dayglow	-	-	-	WS	LC35	-	-	200	-	-
1963-S163	2438138.38	1963 Apr 18 2100:14	Aerobee 300A	-	NASA 06.07GA	Thermo Probe 2(AE-A)	-	-	-	WI	-	-	-	342	-	-
1963-S170	2438143.37	1963 Apr 23 2048	Aerobee 150A	-	NASA 04.44GI	Electron density	-	-	-	WI	-	-	-	199	-	-
1963-S185	2438149.67	1963 Apr 30 0400	Aerobee 150	-	NB3.130	UV Phot/NRL X-ray	-	-	-	WS	LC35	-	-	197	-	-
1963-S188	2438152.21	1963 May 2 1703	Aerobee 150	-	AC3.510	EUV Mon 2/XR/RPA	-	-	-	WS	LC35	-	-	232	-	-
1963-S190	2438157.38	1963 May 7 2111	Aerobee 150A	-	NASA 04.98UA	JHU Airglow 5	-	-	-	WI	-	-	-	223	-	-
1963-S194	2438159.25	1963 May 9 1802	Aerobee 150A	-	NASA 04.97II	CSIRO VLF 4	-	-	-	WI	-	-	-	203	-	-
1963-S197	2438160.11	1963 May 10 1445	Aerobee 150	-	NE3.140R	-	-	-	-	WS	LC35	-	-	214	-	-
1963-S201	2438164.16	1963 May 14 1545	Aerobee 150	-	NASA 04.66NP	Paraglider	-	-	-	WS	LC35	-	-	185	-	-
1963-S224	2438170.73	1963 May 21 0530	Aerobee 150	-	NB3.119	FUV Telescope	-	-	-	WS	LC35	-	-	192	-	-
1963-S264	2438187.10	1963 Jun 6 1430	Aerobee 150	-	NC3.115F	-	-	-	-	WS	LC35	-	-	208	-	-
1963-S268	2438191.72	1963 Jun 11 0515	Aerobee 150	-	AC3.354	ASE/Lunar X-ray	-	-	-	WS	LC35	-	-	302	-	-
1963-S278	2438198.25	1963 Jun 17 1800	Aerobee 150	-	NASA 04.87GT	Attitude control	-	-	-	WS	LC35	-	-	182	-	-
1963-S285	2438200.23	1963 Jun 19 1733	Aerobee 150	-	NASA 04.28NP	LeRC LH2 test	-	-	-	WI	-	-	-	189	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S289	2438201.10	1963 Jun 20 1425	Aerobee 150	-	NASA 04.61AS	NRL Coronagraph	-	-	-	WS	LC35	-	-	195	-	-
1963-S300	2438206.06	1963 Jun 25 1320	Aerobee 150	-	KP3.2	Visible Dayglow	-	-	-	WS	LC35	-	-	213	-	-
1963-S308	2438209.10	1963 Jun 28 1430	Aerobee 150	-	NASA 04.62AS	NRL NE3.129?	-	-	-	WS	LC35	-	-	204	-	-
1963-S311	2438210.20	1963 Jun 29 1646	Aerobee 150	-	AC3.607	Gyro-resonance	-	-	-	EGL	-	-	-	156	-	-
1963-S327	2438213.88	1963 Jul 3 0900	Aerobee 150	-	AB3.247	Structure	-	-	-	EGL	-	-	-	199	-	-
1963-S334	2438220.62	1963 Jul 10 0246	Aerobee 150A	-	NASA 04.59UI	EOGO VLF test	-	-	-	WI	-	-	-	204	-	-
1963-S335	2438221.21	1963 Jul 10 1702	Aerobee 150	-	AC3.511	EUV Mon/RPA	-	-	-	WS	LC35	-	-	225	-	-
1963-S343	2438229.73	1963 Jul 19 0530	Aerobee 150A	-	NASA 04.37GG	UV spectrograph	-	-	-	WI	-	-	-	185	-	-
1963-S345	2438231.14	1963 Jul 20 1518	Aerobee 150	-	NASA 04.77GS	OSO B spectrometer	-	-	-	WS	LC35	-	-	213	-	-
1963-M37	2438231.38	1963 Jul 20 2106	Aerobee 150	-	NASA 04.75UA	JHU Eclipse Airglow	-	-	-	FC	-	-	-	78	-	-
1963-S350	2438231.41	1963 Jul 20 2154:45	Aerobee 300A	-	NASA 06.08GA	Thermosphere Probe 3	-	-	-	WI	-	-	-	338	-	-
1963-S352	2438233.75	1963 Jul 23 0600	Aerobee 150A	-	NASA 04.29GG	UV spectrograph	-	-	-	WI	-	-	-	177	-	-
1963-S367	2438236.09	1963 Jul 25 1415	Aerobee 150	-	NB3.124	Solar XR Spectrum 2	-	-	-	WS	LC35	-	-	200	-	-
1963-S373	2438242.84	1963 Aug 1 0806	Aerobee 150	-	NC3.?	Bennett Mass Spec 2	-	-	-	WS	-	-	-	232	-	-
1963-S421	2438276.44	1963 Sep 3 2236	Aerobee 150	-	AD3.374	Mass spectrometer	-	-	-	WS	LC35	-	-	288	-	-
1963-S429	2438277.05	1963 Sep 4 1311	Aerobee 150	-	NASA 04.91GE	CR nuclei	-	-	-	FC	-	-	-	228	-	-
1963-S433	2438279.40	1963 Sep 6 2130	Aerobee 150	-	NASA 04.22US	OSO B experiment	-	-	-	WS	LC35	-	-	222	-	-
1963-S439	2438284.10	1963 Sep 11 1424	Aerobee 150A	-	NASA 04.32NP	LeRC LH2 test	-	-	-	WI	-	-	-	165	-	-
1963-S447	2438293.16	1963 Sep 20 1545	Aerobee 150	-	NE3.151	SX solar spectrum	-	-	-	WS	LC35	-	-	208	-	-
1963-S457	2438297.80	1963 Sep 25 0709	Aerobee 150A	-	NASA 04.65GI	Japan-US Ionos 4	-	-	-	WI	-	-	-	224	-	-
1963-S464	2438299.27	1963 Sep 26 1830	Aerobee 150	-	AC3.151	UV absorption	-	-	-	WS	LC35	-	-	98	-	-
1963-S467	2438301.11	1963 Sep 28 1443	Aerobee 150A	-	NASA 04.64GI	Japan-US Ionos 5	-	-	-	WI	-	-	-	226	-	-
1963-S474	2438304.21	1963 Oct 1 1700	Aerobee 150	-	NASA 04.78GS	OSO B spectrometer	-	-	-	WS	LC35	-	-	219	-	-
1963-A144	2438312.94	1963 Oct 10 1033	Aerobee 150	-	NASA 04.31GG	UV geocorona?	-	-	-	WS	LC35	-	-	2	-	-
1963-S493	2438318.17	1963 Oct 15 1605	Aerobee 150	-	NASA 04.33GS	ASE XRT	-	-	-	WS	LC35	-	-	197	-	-
1963-S499	2438320.20	1963 Oct 17 1650	Aerobee 150A	-	NASA 04.93II	FR-1 test	-	-	-	WI	-	-	-	187	-	-
1963-S633	2438330.64	1963 Oct 28 0315	Aerobee 150	-	HITAB-TSRA Test	HITAB 136F	-	-	-	WC	-	-	-	200?	-	-
1963-S527	2438334.20	1963 Oct 31 1650	Aerobee 150A	-	NASA 04.94II	FR-1 test	-	-	-	WI	LA1	-	-	187	-	-
1963-S539	2438338.13	1963 Nov 4 1510	Aerobee 150	-	KP3.3	Dayglow	-	-	-	WS	LC35	-	-	200	-	-
1963-S548	2438346.29	1963 Nov 12 1858	Aerobee 150A	-	NASA 04.76UA	JHU Airglow 6	-	-	-	WI	-	-	-	223	-	-
1963-S551	2438347.46	1963 Nov 13 2300	Aerobee 150	-	AD3.324	Dayglow	-	-	-	WS	LC35	-	-	262	-	-
1963-S558	2438351.26	1963 Nov 17 1815	Aerobee 150A	-	NASA 04.85NA	Airglow	-	-	-	WI	-	-	-	370	-	-
1963-S572	2438361.24	1963 Nov 27 1750	Aerobee 150	-	NE3.153	-	-	-	-	WS	LC35	-	-	216	-	-
1963-S585	2438368.50	1963 Dec 5	Aerobee 150	-	-	HR solar spectrum	-	-	-	WS	LC35	-	-	200?	-	-
1963-S597	2438376.20	1963 Dec 12 1650	Aerobee 150	-	AD3.513	EUV Mon/XR/RPA	-	-	-	WS	LC35	-	-	325	-	-
1964-S57	2438423.29	1964 Jan 28 1900	Aerobee 150	-	NASA 04.88GT	Attitude control	-	-	-	WS	LC35	-	-	126	-	-
1964-S59	2438423.63	1964 Jan 29 0309	Aerobee 300A	-	NASA 06.09GA	Thermosphere probe	-	-	-	WI	-	-	-	309	-	-
1964-S82	2438434.67	1964 Feb 9 0412	Aerobee 150	-	AC3.603	Utah ionos probe	-	-	-	FC	-	-	-	228	-	-
1964-S102	2438442.92	1964 Feb 17 1000	Aerobee 150	-	ND3.143	-	-	-	-	WS	-	-	-	268	-	-
1964-S120	2438452.39	1964 Feb 26 2118	Aerobee 150	-	NASA 04.124UA	JHU Aurora 2	-	-	-	FC	-	-	-	161	-	-
1964-S155	2438471.31	1964 Mar 16 1929	Aerobee 150	-	HITAB-BIRA-1	BIRA-1	-	-	-	WS	-	-	-	200?	-	-
1964-S177	2438485.29	1964 Mar 30 1900	Aerobee 150	-	AD3.514	EUV Mon 3/RPA	-	-	-	WS	LC35	-	-	248	-	-
1964-S182	2438487.35	1964 Apr 1 2023?	Aerobee 150	-	HITAB-TSRA-2	HITAB 137F	-	-	-	WC	-	-	-	200?	-	-
1964-S188	2438488.66	1964 Apr 3 0348	Aerobee 150	-	NASA 04.15GG	-	-	-	-	WS	LC35	-	-	190	-	-
1964-S192	2438493.09	1964 Apr 7 1413	Aerobee 150	-	KP3.4	Dayglow	-	-	-	WS	LC35	-	-	223	-	-
1964-M09	2438495.69	1964 Apr 10 0431	Aerobee 150	-	NASA 04.81GG	-	-	-	-	WS	LC35	-	-	74	-	-
1964-A54	2438500.27	1964 Apr 14 1830	Aerobee 150	-	NASA 04.86NA	Airglow	-	-	-	WS	LC35	-	-	31	-	-
1964-A57	2438507.18	1964 Apr 21 1618	Aerobee 150	-	NASA 04.113GA-GI	Astrochemistry	-	-	-	WS	LC35	-	-	11	-	-
1964-S232	2438522.17	1964 May 6 1600	Aerobee 150	-	NE3.154	-	-	-	-	WS	LC35	-	-	238	-	-
1964-S267	2438542.69	1964 May 27 0430	Aerobee 150	-	AD3.355	Lunar X-ray	-	-	-	WS	LC35	-	-	245	-	-
1964-S268	2438544.21	1964 May 28 1708?	Aerobee 150	-	HITAB-TSRA-1	HITAB SA-6	-	-	-	WC	-	-	-	200?	-	-
1964-S288	2438557.03	1964 Jun 10 1244:59	Aerobee 150	-	NASA 04.67NP	Paraglider	-	-	-	WS	LC35	-	-	155	-	-
1964-S296	2438562.88	1964 Jun 16 0900	Aerobee 150	-	NB3.147	-	-	-	-	WS	LC35	-	-	127	-	-
1964-S303	2438566.07	1964 Jun 19 1346	Aerobee 150	-	KP3.6	Dayglow	-	-	-	WS	LC35	-	-	124	-	-
1964-S329	2438584.45	1964 Jul 7 2243	Aerobee 150	-	NB3.164	Crab lunar occ.	-	-	-	WS	-	-	-	295	-	-
1964-S362	2438593.85	1964 Jul 17 0823?	Aerobee 150	-	HITAB-TIRA-2	HITAB 216D	-	-	-	WC	-	-	-	90	-	-
1964-S379	2438600.28	1964 Jul 23 1843	Aerobee 150	-	NASA 04.107GE	CR nuclei	-	-	-	FC	-	-	-	233	-	-
1964-S380	2438602.23	1964 Jul 25 1735	Aerobee 150	-	NASA 04.108GE	CR nuclei	-	-	-	FC	-	-	-	215	-	-
1964-S386	2438605.38	1964 Jul 28 2114	Aerobee 300	-	NASA 06.10GA	Thermosphere probe	-	-	-	FC	-	-	-	322	-	-
1964-S419	2438618.94	1964 Aug 11 1030	Aerobee 150	-	NASA 04.82GG	-	-	-	-	WS	LC35	-	-	172	-	-
1964-S441	2438629.93	1964 Aug 22 1015	Aerobee 150	-	NASA 04.126GG	UV Spec (Venus)	-	-	-	WS	LC35	-	-	123	-	-
1964-S447	2438636.73	1964 Aug 29 0530	Aerobee 150	-	NASA 04.122GG	AS/E/MIT-1	-	-	-	WS	LC35	-	-	179	-	-
1964-S457	2438640.63	1964 Sep 2 0308	Aerobee 150A	-	NASA 04.55UG	-	-	-	-	WI	-	-	-	156	-	-
1964-S468	2438653.90	1964 Sep 15 0935	Aerobee 150	-	KP3.5	Zodiacal light	-	-	-	WS	LC35	-	-	200	-	-
1964-S473	2438657.22	1964 Sep 18 1717	Aerobee 150A	-	NASA 04.115NA	Dayglow	-	-	-	WI	-	-	-	168	-	-
1964-S488	2438665.00	1964 Sep 26 1204	Aerobee 150A	-	NASA 04.13GP-GT	Attitude control test	-	-	-	WI	-	-	-	120	-	-
1964-S500	2438670.61	1964 Oct 2 0235	Aerobee 150	-	NASA 04.120CG	Lockheed XR Survey	-	-	-	WS	LC35	-	-	144	-	-
1964-S520	2438682.50	1964 Oct 14	Aerobee 150A	-	HITAB-BIRA-2	BIRA-2	-	-	-	WI	-	-	-	200?	-	-
1964-S539	2438695.54	1964 Oct 27 0058	Aerobee 150	-	NASA 04.123CG	AS/E/MIT-2	-	-	-	WS	LC35	-	-	192	-	-
1964-S552	2438699.31	1964 Oct 30 1930	Aerobee 150	-	NASA 04.116GS	EUV spectrum/XR flux	-	-	-	WS	LC35	-	-	189	-	-
1964-S567	2438702.83	1964 Nov 3 0757	Aerobee 150	-	NASA 04.52UG	Princeton UVS	-	-	-	WS	LC35	-	-	127	-	-
1964-S601	2438706.94	1964 Nov 7 1031	Aerobee 150	-	NASA 04.109GG	-	-	-	-	WS	LC35	-	-	213	-	-
1964-S621	2438712.31	1964 Nov 12 1930	Aerobee 150	-	NE3.155	NRL UV Echelle	-	-	-	WS	LC35	-	-	189	-	-
1964-S624	2438713.93	1964 Nov 14 1023	Aerobee 150	-	NASA 04.110GG	-	-	-	-	WS	LC35	-	-	207	-	-
1964-S626	2438716.26	1964 Nov 16 1818	Aerobee 150A	-	NASA 04.45GA	Thermosphere probe	-	-	-	WI	-	-	-	188	-	-
1964-S627	2438716.27	1964 Nov 16 1831	Aerobee 150	-	NASA 04.118NA	Luster 1964	-	-	-	WS	LC35	-	-	157	-	-
1964-S639	2438719.22	1964 Nov 19 1715	Aerobee 150	-	NE3.154R	-	-	-	-	WS	LC35	-	-	219	-	-
1964-S648	2438724.98	1964 Nov 25 1134	Aerobee 150	-	NB3.161	-	-	-	-	WS	LC35	-	-	200	-	-
1964-S664	2438730.76	1964 Dec 1 0615	Aerobee 150	-	NASA 04.83GA	UV Airglow	-	-	-	WS	LC35	-	-	182	-	-
1964-S674	2438738.45	1964 Dec 8 2255	Aerobee 150	-	AD3.515	EUV Mon	-	-	-	WS	LC35	-	-	200?	-	-
1964-S678	2438741.10	1964 Dec 11 1426?	Aerobee 150	-	HITAB-TSRA-3	HITAB AC-4	-	-	-	WC	-	-	-	200?	-	-
1964-S685	2438746.10	1964 Dec 16 1430	Aerobee 150	-	NASA 04.132GA-GI	Meteoroids	-	-	-	WS	LC35	-	-	207	-	-
1964-S689	2438746.79	1964 Dec 17 0655	Aerobee 150	-	NASA 04.125UA	JHU Airglow 8	-	-	-	WS	LC35	-	-	235	-	-
1965-S34	2438774.16	1965 Jan 13 1549	Aerobee 150	-	KP3.9	Dayglow	-	-	-	WS	LC35	-	-	228	-	-
1965-S36	2438774.49	1965 Jan 13 2348	Aerobee 150	-	NASA 04.111NA	Airglow	-	-	-	WI	-	-	-	178	-	-
1965-S42	2438782.35	1965 Jan 21 2030	Aerobee 150	-	NA3.163	-	-	-	-	WS	LC35	-	-	235	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S58	2438790.82	1965 Jan 30 0745	Aerobee 150	-	NF3.162	-	-	-	-	WS	LC35	-	-	211	-	-
1965-S90	2438803.25	1965 Feb 11 1755	Aerobee 150	-	AE3.153	Solar spectrum	-	-	-	WS	LC35	-	-	200	-	-
1965-S99	2438810.70	1965 Feb 19 0451:02	Aerobee 150	-	NASA 04.129CA	Caribou I	JHU Aurora 3	-	-	FC	-	-	-	159	-	-
1965-S127	2438822.51	1965 Mar 3 0009	Aerobee 150	-	AE3.516	EUV Mon	-	-	-	WS	LC35	-	-	241	-	-
1965-S129	2438823.09	1965 Mar 03 1415:00	Aerobee 150	-	AE3.517	EUV Mon	-	-	-	WS	-	-	-	252	-	-
1965-S135	2438824.51	1965 Mar 5 0011	Aerobee 150	-	AE3.518	EUV Mon	-	-	-	WS	LC35	-	-	245	-	-
1965-S140	2438825.65	1965 Mar 6 0341	Aerobee 150	-	NASA 04.133UG	Princeton UVS	-	-	-	WS	LC35	-	-	189	-	-
1965-S141	2438825.81	1965 Mar 6 0732	Aerobee 150	-	AD3.613	D-region comp/aurora	-	-	-	FC	-	-	-	193	-	-
1965-S156	2438832.65	1965 Mar 13 0338	Aerobee 150	-	NASA 04.56GG	UV spectra	-	-	-	WS	LC35	-	-	155	-	-
1965-S157	2438832.66	1965 Mar 13 0355	Aerobee 150	-	AE3.516	[uncertain]	-	-	-	WS	LC35	-	-	105	-	-
1965-S158	2438832.82	1965 Mar 13 0742	Aerobee 150	-	AE3.612	Auroral Input/Output	-	-	-	FC	-	-	-	184	-	-
1965-S166	2438837.13	1965 Mar 17 1510	Aerobee 150	-	NASA 04.63GS	ASE XRT	-	-	-	WS	LC35	-	-	156	-	-
1965-S174	2438838.62	1965 Mar 19 0300	Aerobee 150	-	NASA 04.57GG	UV spectra	-	-	-	WS	LC35	-	-	155	-	-
1965-S177	2438839.74	1965 Mar 20 0542	Aerobee 300	-	NASA 06.11GA	Thermosphere probe	-	-	-	WI	-	-	-	326	-	-
1965-S208	2438849.74	1965 Mar 30 0550	Aerobee 150	-	ND3.159	-	-	-	-	WS	LC35	-	-	217	-	-
1965-S226	2438863.12	1965 Apr 12 1447	Aerobee 150	-	NASA 04.49GS (128-3)	Mg II heliogram 1	-	-	-	WS	LC35	-	-	201	-	-
1965-S236	2438865.95	1965 Apr 15 1045	Aerobee 150	-	NASA 04.127UA	AF-142 Thermo. comp.	-	-	-	WS	LC35	-	-	198	-	-
1965-S242	2438871.15	1965 Apr 20 1540	Aerobee 150	-	NE3.156	-	-	-	-	WS	LC35	-	-	201	-	-
1965-S250	2438874.72	1965 Apr 24 0515	Aerobee 150	-	NASA 04.114GG	-	-	-	-	WS	LC35	-	-	82	-	-
1965-S256	2438877.77	1965 Apr 27 0630	Aerobee 150	-	NB3.176	-	-	-	-	WS	LC35	-	-	193	-	-
1965-A64	2438884.81	1965 May 4 0730	Aerobee 150	-	NF3.162R	-	-	-	-	WS	LC35	-	-	17	-	-
1965-S274	2438885.64	1965 May 5 0323	Aerobee 150	-	NASA 04.89GG	STRAP	-	-	-	WI	-	-	-	145	-	-
1965-S335	2438913.77	1965 Jun 2 0622	Aerobee 150	-	NASA 04.17UG	Princeton UVS	-	-	-	WS	LC35	-	-	181	-	-
1965-S362	2438929.38	1965 Jun 17 2107	Aerobee 150	-	NASA 04.140GE	CR fluxes	-	-	-	FC	-	-	-	233	-	-
1965-S382	2438935.11	1965 Jun 23 1432	Aerobee 150	-	KP3.10	Soft X solar photo	-	-	-	WS	LC35	-	-	186	-	-
1965-S383	2438935.16	1965 Jun 23 1547	Aerobee 150	-	NASA 04.141GE	CR fluxes	-	-	-	FC	-	-	-	215	-	-
1965-S393	2438941.29	1965 Jun 29 1900	Aerobee 150	-	NASA 04.112NA	Airglow	-	-	-	WS	LC35	-	-	195	-	-
1965-S414	2438942.10	1965 Jun 30 1430	Aerobee 150	-	NASA 04.105NP	JPL Rocket Radar 3	-	-	-	WS	LC35	-	-	158	-	-
1965-S420	2438948.81	1965 Jul 7 0725	Aerobee 150	-	AE3.117/VFT65-S-1	Noctilucent clouds	-	-	-	FC	-	-	-	166	-	-
1965-A100	2438955.83	1965 Jul 14 0757	Aerobee 150	-	AF3.265/VFT65-S-2	Noctilucent clouds	-	-	-	FC	-	-	-	0?	-	-
1965-S424	2438957.37	1965 Jul 15 2050	Aerobee 150	-	NASA 04.128UA	Thermosphere comp.	-	-	-	WS	LC35	-	-	196	-	-
1965-S430	2438963.33	1965 Jul 21 2000	Aerobee 150	-	CRL AD3.375	Mass spec/Imp. probe	-	-	-	WS	LC35	-	-	193	-	-
1965-S432	2438965.86	1965 Jul 24 0836	Aerobee 150	-	AF3.266/VFT65-S-3	Noctilucent clouds	-	-	-	FC	-	-	-	179	-	-
1965-S466	2438985.22	1965 Aug 12 1715	Aerobee 150	-	CRL AE3.519	EUV Mon	-	-	-	WS	LC35	-	-	241	-	-
1965-S481	2438999.29	1965 Aug 26 1903	Aerobee 150	-	CRL AE3.614	Gyro Resonance	-	-	-	EGL	-	-	-	109	-	-
1965-S499	2439021.41	1965 Sep 17 2151	Aerobee 150A	-	NASA 04.138II	FR-1 test	-	-	-	WI	-	-	-	182	-	-
1965-S507	2439026.34	1965 Sep 22 2007	Aerobee 150	-	NASA 04.147CG	AS/E	-	-	-	WS	LC35	-	-	199	-	-
1965-S513	2439028.67	1965 Sep 25 0400	Aerobee 150	-	CRL AD3.722	IR Horizon 1	-	-	-	WS	LC35	-	-	199	-	-
1965-S514	2439029.41	1965 Sep 25 2154	Aerobee 150A	-	NASA 04.139II	FR-1 test	-	-	-	WI	-	-	-	192	-	-
1965-S517	2439031.88	1965 Sep 28 0909:58	Aerobee 150	-	NASA 04.150GA-GI-GB	Meteors/Ionos	-	-	-	WS	LC35 L-21A?	-	-	183	-	-
1965-S520	2439032.50	1965 Sep 29	Aerobee 150	?	-	-	-	-	-	WS	LC35	-	-	200	-	-
1965-S535	2439034.56	1965 Oct 1 0130	Aerobee 150	-	NASA 04.121CG	LPARL 1D XRT	-	-	-	WS	LC35	-	-	148	-	-
1965-S541	2439038.62	1965 Oct 5 0300	Aerobee 150	-	NRL NB3.184	-	-	-	-	WS	LC35	-	-	171	-	-
1965-S550	2439046.63	1965 Oct 13 0313	Aerobee 150	-	NASA 04.151UG	-	-	-	-	WS	LC35	-	-	183	-	-
1965-S561	2439053.33	1965 Oct 19 2000	Aerobee 150A	-	NASA 04.142NA	Colorado/Ikeya-Seki	-	-	-	WI	-	-	-	179	-	-
1965-S566	2439054.36	1965 Oct 20 2035	Aerobee 150	-	NASA 04.146DS	Comet study/Solar	-	-	-	WS	LC35	-	-	184	-	-
1965-S568	2439055.17	1965 Oct 21 1600	Aerobee 150	-	NASA 04.164UA	JHU Ikeya-Seki	-	-	-	WI	-	-	-	191	-	-
1965-S571	2439056.73	1965 Oct 23 0530	Aerobee 150	-	NRL ND3.167	-	-	-	-	WS	LC35	-	-	254	-	-
1965-S577	2439060.14	1965 Oct 26 1525	Aerobee 150	-	NASA 04.53GS	-	-	-	-	WS	LC35	-	-	195	-	-
1965-S584	2439062.98	1965 Oct 29 1130	Aerobee 150	-	NRL NF3.162R	IR Telescope	-	-	-	WS	LC35	-	-	205	-	-
1965-S594	2439068.29	1965 Nov 3 1900	Aerobee 150	-	CRL AE3.520	Solar XUVT	-	-	-	WS	LC35	-	-	210	-	-
1965-S606	2439074.29	1965 Nov 9 1900	Aerobee 150	-	CRL AF3.523	EUV Mon	-	-	-	WS	LC35	-	-	238	-	-
1965-S608	2439074.60	1965 Nov 10 0230	Aerobee 150	-	CRL AD3.356	Lunar IR	-	-	-	WS	LC35	-	-	180	-	-
1965-S617	2439081.17	1965 Nov 16 1600	Aerobee 150	-	NASA 04.119NA	Luster 1965-B	-	-	-	WS	LC35	-	-	144	-	-
1965-S635	2439084.85	1965 Nov 20 0828	Aerobee 150	-	KP3.8	Stellar Spectra	-	-	-	WS	LC35	-	-	150	-	-
1965-S659	2439094.83	1965 Nov 30 0748	Aerobee 150	-	NASA 04.155GG	-	-	-	-	WS	LC35	-	-	179	-	-
1965-S661	2439097.23	1965 Dec 2 1730	Aerobee 150	-	NASA 04.145GS	Mg II heliogram 2	-	-	-	WS	LC35	-	-	185	-	-
1966-S68	2439143.64	1966 Jan 18 0319	Aerobee 150A	-	NASA 04.90GG	STRAP	-	-	-	WI	-	-	-	134	-	-
1966-M03	2439144.69	1966 Jan 19 0439	Aerobee 150	-	KP3.11	Stellar Spectra	-	-	-	WS	LC35	-	-	50	-	-
1966-S83	2439152.56	1966 Jan 27 0129	Aerobee 150	-	NRL NC3.186	-	-	-	-	WS	LC35	-	-	243	-	-
1966-S88	2439158.25	1966 Feb 1 1800	Aerobee 150	-	NRL NE3.156R	Spectroheliograph	-	-	-	WS	LC35	-	-	209	-	-
1966-S92	2439158.92	1966 Feb 2 1004	Aerobee 150	-	NASA 04.50UG	Spica UV spectra	-	-	-	WS	LC35	-	-	175	-	-
1966-S121	2439176.73	1966 Feb 20 0530	Aerobee 150	-	NASA 04.162UA	JHU Aurora 4	-	-	-	FC	-	-	-	166	-	-
1966-S145	2439187.25	1966 Mar 2 1755	Aerobee 150A	-	NASA 04.99DS	Te, Solar UV	-	-	-	WI	-	-	-	228	-	-
1966-S148	2439188.41	1966 Mar 3 2154	Aerobee 150A	-	NASA 04.100DS	AFCRL Solar	-	-	-	WI	-	-	-	219	-	-
1966-S153	2439192.82	1966 Mar 8 0742	Aerobee 150	-	NASA 04.148CG	AS/E/MIT-3	-	-	-	WS	LC35	-	-	165	-	-
1966-S154	2439193.60	1966 Mar 9 0222	Aerobee 150	-	KP3.15	Stellar spectra	-	-	-	WS	LC35	-	-	150	-	-
1966-S197	2439215.27	1966 Mar 30 1835	Aerobee 150	-	CRL AF3.524	EUV Mon/RPA	-	-	-	WS	LC35	-	-	229	-	-
1966-S219	2439230.12	1966 Apr 14 1500	Aerobee 150	-	NASA 04.143NA	Dayglow	-	-	-	WS	LC35	-	-	183	-	-
1966-S220	2439230.13	1966 Apr 14 1508	Aerobee 150	-	NASA 04.24US	-	-	-	-	WS	LC35	-	-	192	-	-
1966-S231	2439236.98	1966 Apr 21 1125	Aerobee 150	-	NASA 04.165UA	JHU UVT F1 (Venus)	-	-	-	WS	LC35	-	-	154	-	-
1966-S237	2439244.02	1966 Apr 28 1235	Aerobee 150	-	NASA 04.189DS	NRL ND3.172R	-	-	-	WS	LC35	-	-	175	-	-
1966-S239	2439244.66	1966 Apr 29 0349	Aerobee 150	-	CRL AD3.723	IR Horizon 2	-	-	-	WS	LC35	-	-	160	-	-
1966-S258	2439255.14	1966 May 9 1520	Aerobee 150	-	NASA 04.106NP	JPL Rocket Radar 4	-	-	-	WS	LC35	-	-	174	-	-
1966-S268	2439263.67	1966 May 18 0402	Aerobee 150A	-	NASA 04.171UG	-	-	-	-	WI	-	-	-	210	-	-
1966-S271	2439266.13	1966 May 20 1510	Aerobee 150	-	NASA 04.95GS	XRT (2)	-	-	-	WS	LC35	-	-	172	-	-
1966-S273	2439266.48	1966 May 20 2330	Aerobee 150	-	NASA 04.92GS	-	-	-	-	WS	LC35	-	-	195	-	-
1966-S279	2439269.71	1966 May 24 0507	Aerobee 150	-	NASA 04.51UG	-	-	-	-	WS	LC35	-	-	132	-	-
1966-S373	2439322.73	1966 Jul 16 0532	Aerobee 150	-	NASA 04.159GG	STRAP?	-	-	-	WS	LC35	-	-	145	-	-
1966-S380	2439325.65	1966 Jul 19 0336	Aerobee 150	-	NASA 04.144DG	NRL NB3.165	-	-	-	WS	LC35	-	-	134	-	-
1966-S386	2439329.38	1966 Jul 22 2102	Aerobee 150	-	CRL AF3.525	EUV Mon/RPA	-	-	-	WS	LC35	-	-	247	-	-
1966-S398	2439334.12	1966 Jul 27 1500	Aerobee 150	-	NRL NE3.190	Heliograph XUV-H1?	-	-	-	WS	LC35	-	-	211	-	-
1966-S431	2439346.27	1966 Aug 8 1822	Aerobee 150	-	CRL AE3.734	Solar min particles	-	-	-	FC	-	-	-	134	-	-
1966-S436	2439349.16	1966 Aug 11 1553	Aerobee 150	-	CRL AC3.364	Auroral emissions	-	-	-	FC	-	-	-	207	-	-
1966-S457	2439364.26	1966 Aug 26 1813	Aerobee 150A	-	NASA 04.101DS	EUV Mon/RPA	-	-	-	WI	-	-	-	212	-	-
1966-S466	2439367.14	1966 Aug 29 1520	Aerobee 150	-	NASA 04.156GM	Nimbus MUSE test	-	-	-	WS	LC35	-	-	206	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S481	2439371.45	1966 Sep 2 2250	Aerobee 150	-	NRL NA3.182	NRL NA3.182	-	-	-	WS	LC35	-	-	206	-	-
1966-S498	2439388.74	1966 Sep 20 0545	Aerobee 150	-	NASA 04.176UG	-	-	-	-	WS	LC35	-	-	165	-	-
1966-A107	2439389.21	1966 Sep 20 1705	Aerobee 150	-	NASA 12.06GT	Booster test	-	-	-	WS	LC35	-	-	3	-	-
1966-S528	2439403.35	1966 Oct 4 2029	Aerobee 150	-	NRL NA3.160	KP3.18	-	-	-	WS	LC35	-	-	154	-	-
1966-S538	2439410.47	1966 Oct 11 2322	Aerobee 150	-	KP3.16	IR dayglow	-	-	-	WS	LC35	-	-	150	-	-
1966-S539	2439410.58	1966 Oct 12 0152	Aerobee 150	-	NASA 04.149CG	AS&E	-	-	-	WS	LC35	-	-	148	-	-
1966-S557	2439421.14	1966 Oct 22 1520	Aerobee 150	-	NASA 04.161NA	Luster 1966	-	-	-	WS	LC35	-	-	149	-	-
1966-S561	2439424.23	1966 Oct 25 1725	Aerobee 150	-	NASA 04.195GA-GI	Meteoroids	-	-	-	WS	LC35	-	-	186	-	-
1966-S576	2439430.50	1966 Nov 1	Aerobee 150	-	-	(?)	-	-	-	WS	LC35	-	-	241	-	-
1966-S615	2439442.18	1966 Nov 12 1615	Aerobee 150	-	NASA 04.153GS	-	-	-	-	WS	LC35	-	-	151	-	-
1966-S601	2439442.19	1966 Nov 12 1640	Aerobee 150	-	NASA 04.191DS	NRL ND3.188 XUV-H2?	-	-	-	WS	LC35	-	-	174	-	-
1966-S624	2439446.05	1966 Nov 16 1315	Aerobee 150	-	CRL AF3.267	Leonids	-	-	-	WS	LC35	-	-	173	-	-
1966-S648	2439450.92	1966 Nov 21 1000	Aerobee 150	-	NASA 04.154GG	-	-	-	-	WS	LC35	-	-	165	-	-
1966-S655	2439456.59	1966 Nov 27 0216	Aerobee 150	-	CRL AG3.357	A1 274-1L	Lunar IR	-	-	FC	-	-	-	169	-	-
1966-S663	2439459.99	1966 Nov 30 1145	Aerobee 150	-	NASA 04.181UA	Composition	-	-	-	WS	LC35	-	-	227	-	-
1966-S667	2439462.38	1966 Dec 2 2109	Aerobee 150	-	NASA 04.180UA	Composition	-	-	-	WS	LC35	-	-	227	-	-
1966-S669	2439465.65	1966 Dec 6 0335	Aerobee 150	-	CRL AE3.724	-	-	-	-	WS	LC35	-	-	188	-	-
1966-S682	2439472.77	1966 Dec 13 0630	Aerobee 150	-	NASA 04.182UG	-	-	-	-	CLBI	-	-	-	169	-	-
1966-S685	2439473.84	1966 Dec 14 0816	Aerobee 150	-	CRL AF3.615	A1 199-6L	-	-	-	FC	-	-	-	180	-	-
1966-S687	2439473.98	1966 Dec 14 1130	Aerobee 150	-	NRL NB3.194	-	-	-	-	WS	LC35	-	-	177	-	-
1966-A153	2439476.76	1966 Dec 17 0615	Aerobee 150	-	KP3.19	-	-	-	-	WS	LC35	-	-	1	-	-
1967-S61	2439508.29	1967 Jan 17 1900	Aerobee 150	-	CRL AG3.526	EUV Mon	-	-	-	WS	LC35	-	-	243	-	-
1967-S122	2439538.68	1967 Feb 17 0418	Aerobee 150	-	NASA 04.163UA	JHU Aurora 5	-	-	-	FC	-	-	-	168	-	-
1967-S135	2439552.65	1967 Mar 3 0330	Aerobee 150	-	NASA 04.160GG	UV stellar photom	-	-	-	WS	LC35	-	-	157	-	-
1967-S136	2439552.68	1967 Mar 3 0420	Aerobee 150	-	NASA 04.84UG	IR payload	-	-	-	WS	LC35	-	-	158	-	-
1967-S156	2439564.22	1967 Mar 14 1714	Aerobee 150A	-	NASA 04.102DS	OSO-3 calibration	-	-	-	WI	-	-	-	205	-	-
1967-S164	2439566.66	1967 Mar 17 0348	Aerobee 150	-	NASA 04.194DG	NRL NB3.191/FUIIS	-	-	-	WS	LC35	-	-	193	-	-
1967-S168	2439572.21	1967 Mar 22 1656	Aerobee 150A	-	NASA 04.103DS	OSO-3 calibration	-	-	-	WI	-	-	-	229	-	-
1967-S188	2439581.65	1967 Apr 1 0340	Aerobee 150	-	NASA 04.204GG	UV stellar photom	-	-	-	WS	LC35	-	-	139	-	-
1967-S193	2439585.51	1967 Apr 5 0015	Aerobee 150	-	NASA 04.168CS	LMSC Solar/Mod 1	-	-	-	WS	LC35	-	-	160	-	-
1967-S197	2439587.85	1967 Apr 7 0825	Aerobee 150	-	NASA 04.186UG	-	-	-	-	WS	LC35	-	-	176	-	-
1967-S230	2439605.14	1967 Apr 24 1520	Aerobee 150	-	NASA 04.117GS	OSO-3 calibration	-	-	-	WS	LC35	-	-	181	-	-
1967-S246	2439615.67	1967 May 5 0400	Aerobee 150	-	NASA 04.157GG	Venus UV	-	-	-	WS	LC35	-	-	159	-	-
1967-S248	2439615.81	1967 May 5 0730	Aerobee 150	-	NASA 04.203UG	UV stellar spectra	-	-	-	WS	LC35	-	-	176	-	-
1967-S254	2439620.38	1967 May 9 2100	Aerobee 150	-	NASA 04.192DS	NRL ND3.199 XUV-H3?	-	-	-	WS	LC35	-	-	182	-	-
1967-S260	2439626.86	1967 May 16 0832	Aerobee 150	-	NRL NB3.177	-	-	-	-	WS	LC35	-	-	148	-	-
1967-S289	2439643.69	1967 Jun 2 0430	Aerobee 150	-	NASA 04.210GG	UV stellar spectra	-	-	-	WS	LC35	-	-	179	-	-
1967-S293	2439648.10	1967 Jun 6 1420	Aerobee 150	-	NASA 04.222NA	Luster 1967-I	-	-	-	WS	LC35	-	-	138	-	-
1967-S298	2439650.68	1967 Jun 9 0415	Aerobee 150	-	KP3.21	Planetary UV	-	-	-	WS	LC35	-	-	150	-	-
1967-S311	2439663.33	1967 Jun 21 1949	Aerobee 150	-	NASA 04.179UA	UMn mass spectrom.	-	-	-	WS	LC35	-	-	210	-	-
1967-S337	2439677.28	1967 Jul 5 1841	Aerobee 150	-	CRL AE3.582	Auroral profile	-	-	-	FC	-	-	-	200?	-	-
1967-S341	2439679.67	1967 Jul 8 0410	Aerobee 150	-	NASA 04.190UG	MIT-4 GC Survey I	-	-	-	WS	LC35	-	-	142	-	-
1967-S352	2439691.88	1967 Jul 20 0900	Aerobee 150	-	NASA 04.212UA	Composition	-	-	-	WS	LC35	-	-	210	-	-
1967-S353	2439692.31	1967 Jul 20 1924	Aerobee 150	-	NASA 04.211UA	Composition	-	-	-	WS	LC35	-	-	209	-	-
1967-S368	2439706.70	1967 Aug 4 0453	Aerobee 150	-	NASA 04.172UG	Stellar UV	-	-	-	WS	LC35	-	-	130	-	-
1967-S376	2439711.04	1967 Aug 8 1257	Aerobee 150	-	NASA 04.207UA	POGO detector test	-	-	-	WS	LC35	-	-	289	-	-
1967-S377	2439711.41	1967 Aug 8 2145	Aerobee 150	-	CRL AH3.529	EUV Mon	-	-	-	WS	LC35	-	-	235	-	-
1967-S384	2439713.88	1967 Aug 11 0900	Aerobee 150	-	NASA 04.223NA	Luster 1967-II	-	-	-	WS	LC35	-	-	141	-	-
1967-S386	2439714.77	1967 Aug 12 0630	Aerobee 150	-	NRL NC3.187	Ion Composition	-	-	-	WS	LC35	-	-	222	-	-
1967-S387	2439718.28	1967 Aug 15 1845	Aerobee 150	-	CRL AG3.528	EUV Mon	-	-	-	WS	LC35	-	-	243	-	-
1967-S396	2439728.69	1967 Aug 26 0436	Aerobee 150	-	NASA 04.187CG	LMSC X-ray	-	-	-	WS	LC35	-	-	125	-	-
1967-S430	2439741.64	1967 Sep 8 0321	Aerobee 150	-	NRL NB3.196	Stellar XR	-	-	-	WS	LC35	-	-	200?	-	-
1967-A117	2439746.43	1967 Sep 12 2225	Aerobee 150	-	NASA 12.07GT	Rail launch test	-	-	-	WS	LC35	-	-	0	-	-
1967-S461	2439764.18	1967 Sep 30 1614	Aerobee 150	-	NASA 04.104DS	OSO 3 cal	-	-	-	WI	-	-	-	216	-	-
1967-S469	2439767.26	1967 Oct 3 1818	Aerobee 150	-	NASA 04.152GS	Solar pointing	-	-	-	WS	LC35	-	-	184	-	-
1967-S476	2439769.10	1967 Oct 5 1430	Aerobee 150	-	NASA 04.243DS	NRL ND3.192 Cor'gr.	-	-	-	WS	LC35	-	-	173	-	-
1967-S497	2439783.00	1967 Oct 19 1205	Aerobee 150	-	NASA 04.239US	Solar/geo Ly-alpha	-	-	-	WS	LC35	-	-	182	-	-
1967-S506	2439790.95	1967 Oct 27 1045	Aerobee 150	-	NASA 04.158GG	UV stellar spectra	-	-	-	WS	LC35	-	-	160	-	-
1967-S519	2439795.98	1967 Nov 1 1130	Aerobee 150	-	NASA 04.226UG	UV stellar spectra	-	-	-	WS	LC35	-	-	176	-	-
1967-S528	2439802.24	1967 Nov 7 1745	Aerobee 150	-	CRL AH3.530	EUV Mon/RPA	-	-	-	WS	LC35	-	-	243	-	-
1967-S534	2439808.92	1967 Nov 14 1005	Aerobee 150	-	NASA 04.229UG	UV stellar spectra	-	-	-	WS	LC35	-	-	172	-	-
1967-S536	2439810.40	1967 Nov 15 2130	Aerobee 150	-	CRL AD3.365	Dayglow	-	-	-	CLBI	-	-	-	224	-	-
1967-S542	2439814.95	1967 Nov 20 1042	Aerobee 150	-	NASA 04.228CG	AS&E X-ray	-	-	-	WS	LC35	-	-	144	-	-
1967-S560	2439828.99	1967 Dec 4 1145	Aerobee 150	-	KP3.20	UV Tel (Venus)	-	-	-	WS	LC35	-	-	167	-	-
1967-S565	2439829.98	1967 Dec 5 1130	Aerobee 150	-	NASA 04.197UA	JHU UVT F2 (Venus)	-	-	-	WS	LC35	-	-	160?	-	-
1967-S566	2439830.30	1967 Dec 5 1911	Aerobee 150A	-	NASA 04.213NB	Rat centrifuge 1	-	-	-	WI	-	-	-	137	-	-
1967-S568	2439830.95	1967 Dec 6 1045	Aerobee 150	-	NASA 04.219GG	UV stellar spectra	-	-	-	WS	LC35	-	-	210	-	-
1967-S576	2439835.42	1967 Dec 10 2200	Aerobee 150	-	NASA 04.201NT	SPARCS Test	-	-	-	WS	LC35	-	-	160	-	-
1967-S582	2439838.04	1967 Dec 13 1259	Aerobee 150	-	CRL AF3.268	Dust collector	-	-	-	WS	LC35	-	-	164	-	-
1968-S94	2439878.21	1968 Jan 22 1705	Aerobee 150	-	NRL NA3.201	KP3.25 BCS/PC	-	-	-	WS	LC35	-	-	175	-	-
1968-S101	2439881.67	1968 Jan 26 0400	Aerobee 150	-	NASA 04.205GG	Stellar Astron.	-	-	-	WS	LC35	-	-	160	-	-
1968-S115	2439888.73	1968 Feb 2 0530	Aerobee 150	-	NASA 04.261GG	-	-	-	-	WS	LC35	-	-	139	-	-
1968-S116	2439888.76	1968 Feb 2 0610	Aerobee 150	-	NASA 04.220GG	Stellar Astron.	-	-	-	WS	LC35	-	-	149	-	-
1968-S128	2439895.70	1968 Feb 9 0441	Aerobee 150	-	NASA 04.217UA	JHU Aurora 6	-	-	-	FC	-	-	-	155	-	-
1968-S135	2439903.60	1968 Feb 17 0224	Aerobee 150	-	KP3.22	Stellar UV	-	-	-	WS	LC35	-	-	183	-	-
1968-S137	2439906.29	1968 Feb 19 1855	Aerobee 150	-	CRL AH3.531	EUV Mon	-	-	-	WS	LC35	-	-	243	-	-
1968-S138	2439906.47	1968 Feb 19 2315	Aerobee 150	-	NASA 04.169CS	-	-	-	-	WS	LC35	-	-	161	-	-
1968-S162	2439916.65	1968 Mar 1 0330	Aerobee 150	-	NASA 04.177UG	Stellar IR	-	-	-	WS	LC35	-	-	171	-	-
1968-S178	2439931.29	1968 Mar 15 1904	Aerobee 150	-	NASA 04.209CS	AS&E Solar	-	-	-	WS	LC35	-	-	155	-	-
1968-S180	2439931.64	1968 Mar 16 0315	Aerobee 150	-	NASA 04.198GE	Crab X-ray	-	-	-	WS	LC35	-	-	153	-	-
1968-S191	2439935.18	1968 Mar 19 1615	Aerobee 150	-	NASA 04.202NT	SPARCS Test	-	-	-	WS	LC35	-	-	159	-	-
1968-S203	2439937.81	1968 Mar 22 0724	Aerobee 150	-	NASA 04.255GG	-	-	-	-	WS	LC35	-	-	208	-	-
1968-S227	2439944.78	1968 Mar 29 0645	Aerobee 150	-	NRL NF3.171	IR Telescope	-	-	-	WS	LC35	-	-	220	-	-
1968-S228	2439944.85	1968 Mar 29 0829	Aerobee 150	-	CRL AE3.154	Spectrograph	-	-	-	WS	LC35	-	-	122	-	-
1968-S257	2439953.74	1968 Apr 7 0545	Aerobee 150	-	NRL NB3.204	Stellar XR Scan	-	-	-	WS	LC35	-	-	158	-	-
1968-S277	2439970.46	1968 Apr 23 2306	Aerobee 150	-	NASA 04.238UA	Airglow	-	-	-	WS	LC35	-	-	185	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S290	2439974.13	1968 Apr 27 1505	Aerobee 150	-	NASA 04.244DS	NRL ND3.212	-	-	-	WS	LC35	-	-	166	-	-
1968-S293	2439976.12	1968 Apr 29 1500	Aerobee 150	-	NASA 04.245DS	NRL ND3.213	-	-	-	WS	LC35	-	-	169	-	-
1968-S305	2439979.80	1968 May 3 0715	Aerobee 150	-	NASA 04.227UG	Stellar UV Spectra	-	-	-	WS	LC35	-	-	171	-	-
1968-A77	2439979.82	1968 May 3 0745	Aerobee 150	-	NASA 04.196UG	CAL XR 1	-	-	-	WS	LC35	-	-	3	-	-
1968-S322	2439993.66	1968 May 17 0345	Aerobee 150	-	KP3.24	UV Tel (Jupiter)	-	-	-	WS	LC35	-	-	159	-	-
1968-S323	2439993.68	1968 May 17 0425	Aerobee 150	-	NASA 04.221GG	Stellar UV	-	-	-	WS	LC35	-	-	165	-	-
1968-S332	2439997.12	1968 May 20 1500	Aerobee 150	-	NASA 04.230GS	UV solar imager	-	-	-	WS	LC35	-	-	165	-	-
1968-S350	2440001.78	1968 May 25 0640	Aerobee 150	-	NASA 04.173UG	Stellar UV	-	-	-	WS	LC35	-	-	169	-	-
1968-S364	2440016.24	1968 Jun 8 1741	Aerobee 150	-	NASA 04.263CS	AS&E Solar	-	-	-	WS	LC35	-	-	151	-	-
1968-S365	2440016.28	1968 Jun 8 1838	Aerobee 150	-	NASA 04.134DS	NRL NE3.174	-	-	-	WS	LC35	-	-	179	-	-
1968-S383	2440032.45	1968 Jun 24 2251	Aerobee 150A	-	NASA 04.214NB	Rat centrifuge 2	-	-	-	WI	-	-	-	144	-	-
1968-S425	2440064.66	1968 Jul 27 0355	Aerobee 150	-	NASA 04.236UG	CAL XR 2	-	-	-	WS	LC35	-	-	142	-	-
1968-S426	2440064.69	1968 Jul 27 0430	Aerobee 150	-	NASA 04.225UG	MIT-5 GC Survey II	-	-	-	WS	LC35	-	-	135	-	-
1968-S439	2440069.88	1968 Aug 1 0910	Aerobee 150	-	NASA 04.224NA	Luster NLC	-	-	-	FC	-	-	-	115	-	-
1968-S443	2440075.28	1968 Aug 6 1843	Aerobee 150	-	CRL AG3.532	EUV Mon/RPA	-	-	-	WS	LC35	-	-	127	-	-
1968-M17	2440083.19	1968 Aug 14 1637	Aerobee 150	-	NRL NE3.183	Solar radiation	-	-	-	WS	LC35	-	-	79	-	-
1968-S458	2440083.83	1968 Aug 15 0759	Aerobee 150	-	CRL AE3.725	MAP (IR horizon)	-	-	-	FC	-	-	-	179	-	-
1968-S489	2440104.12	1968 Sep 4 1450	Aerobee 150	-	NASA 04.130UA	Structure	-	-	-	WS	LC35	-	-	124	-	-
1968-A94	2440113.10	1968 Sep 13 1431	Aerobee 150 MI	20	NASA 12.14GT	-	-	-	-	WS	LC35	-	-	5	-	-
1968-S504	2440120.66	1968 Sep 21 0345	Aerobee 150	-	NASA 04.174UG	-	-	-	-	WS	LC35	-	-	173	-	-
1968-S506	2440122.15	1968 Sep 22 1530	Aerobee 150	-	NASA 04.246DS	-	-	-	-	WS	LC35	-	-	189	-	-
1968-S508	2440124.19	1968 Sep 24 1630	Aerobee 150	-	NASA 04.185US	HCO Spectrometer	-	-	-	WS	LC35	-	-	180	-	-
1968-S516	2440130.31	1968 Sep 30 1930	Aerobee 150 MI	20	NASA 04.231GS	GSFC EUV Spec	-	-	-	WS	LC35	-	-	203	-	-
1968-S517	2440131.29	1968 Oct 1 1852	Aerobee 150	-	NASA 04.241UA	UV Dayglow	-	-	-	WS	LC35	-	-	174	-	-
1968-S531	2440139.94	1968 Oct 10 1030	Aerobee 150	-	NASA 04.265DG	-	-	-	-	WS	LC35	-	-	175	-	-
1968-S540	2440146.47	1968 Oct 16 2315	Aerobee 150	-	NASA 04.248CS	-	-	-	-	WS	LC35	-	-	155	-	-
1968-S584	2440175.82	1968 Nov 15 0745	Aerobee 150	-	NASA 04.268UG	-	-	-	-	WS	LC35	-	-	174	-	-
1968-S601	2440182.27	1968 Nov 21 1830	Aerobee 150	-	CRL AT3.533	EUV Mon/RPA	-	-	-	WS	LC35	-	-	244	-	-
1968-S602	2440182.30	1968 Nov 21 1915	Aerobee 150 MI	-	NASA 04.240US	-	-	-	-	WS	LC35	-	-	193	-	-
1968-S603	2440182.36	1968 Nov 21 2045	Aerobee 150A	-	NASA 04.215NB	Rat centrifuge 3	-	-	-	WI	-	-	-	164	-	-
1968-S634	2440197.76	1968 Dec 7 0611	Aerobee 150	-	NASA 04.264CG	-	-	-	-	WS	LC35	-	-	149	-	-
1968-S656	2440211.64	1968 Dec 21 0320	Aerobee 150	-	NASA 04.178UG	Cornell FIR tel	-	-	-	WS	LC35	-	-	161	-	-
1969-S58	2440231.61	1969 Jan 10 0243	Aerobee 150	-	NASA 04.206UA	JHU UVT F3 (Venus)	-	-	-	WS	LC35	-	-	166	-	-
1969-S94	2440252.64	1969 Jan 31 0315	Aerobee 150 MI	20	NASA 04.266DG	-	-	-	-	WS	LC35	-	-	179	-	-
1969-S108	2440257.11	1969 Feb 4 1435	Aerobee 150	-	NASA 04.272UA	-	-	-	-	FC	-	-	-	186	-	-
1969-S113	2440259.11	1969 Feb 6 1435	Aerobee 150	-	NASA 04.273UA	-	-	-	-	FC	-	-	-	138	-	-
1969-S122	2440260.64	1969 Feb 8 0319	Aerobee 150	-	NASA 04.308UA	JHU UVT F4 (Venus)	-	-	-	WS	LC35	-	-	164	-	-
1969-S127	2440264.68	1969 Feb 12 0425	Aerobee 150	-	NASA 04.188UA	JHU Aurora 7	-	-	-	FC	-	-	-	160	-	-
1969-S129	2440265.22	1969 Feb 12 1715	Aerobee 150	-	NASA 04.135DS	NE3.175	-	-	-	WS	LC35	-	-	188	-	-
1969-S161	2440283.92	1969 Mar 3 1000	Aerobee 150 MI	20	NASA 04.199GE	XR background	-	-	-	WS	LC35	-	-	163	-	-
1969-S168	2440287.60	1969 Mar 7 0227	Aerobee 150	-	NASA 04.286UG	CAL XR 3	-	-	-	WS	LC35	-	-	160	-	-
1969-S170	2440290.44	1969 Mar 9 2239:58	Aerobee 150	-	CRL AT3.727	Arcmin probe	-	-	-	CLBI	-	-	-	193	-	-
1969-S188	2440294.73	1969 Mar 14 0530	Aerobee 150	-	NASA 04.290DG	NRL NB3.210	-	-	-	WS	LC35	-	-	154	-	-
1969-S189	2440294.79	1969 Mar 14 0701	Aerobee 150	-	NASA 04.251GG-UG	UVT-SDGS 1	-	-	-	WS	LC35	-	-	177	-	-
1969-S212	2440301.70	1969 Mar 21 0453	Aerobee 150	-	CRL AT3.756	Auroral Input/Output	-	-	-	FC	-	-	-	152	-	-
1969-S231	2440308.79	1969 Mar 28 0701	Aerobee 150	-	NRL NB3.205	Stellar X-ray	-	-	-	WS	-	-	-	161	-	-
1969-S240	2440310.65	1969 Mar 30 0333	Aerobee 150	-	CRL AT3.759	Auroral Input/Output	-	-	-	FC	-	-	-	150	-	-
1969-S253	2440316.32	1969 Apr 4 1935	Aerobee 150	-	CRL AG3.527	EUV Mon	-	-	-	WS	LC35	-	-	248	-	-
1969-S254	2440316.33	1969 Apr 4 1950	Aerobee 150	-	CRL AT3.534	EUV Mon	-	-	-	WS	LC35	-	-	220	-	-
1969-S256	2440320.21	1969 Apr 8 1700	Aerobee 150	-	NASA 04.282CS	AS&E Solar	-	-	-	WS	LC35	-	-	176	-	-
1969-S266	2440326.15	1969 Apr 14 1536	Aerobee 150 MI	20	NASA 04.233GS	-	-	-	-	WS	LC35	-	-	187	-	-
1969-S273	2440328.18	1969 Apr 16 1620	Aerobee 150 MI	20	NASA 04.247DS	-	-	-	-	WS	LC35	-	-	188	-	-
1969-S277	2440329.20	1969 Apr 17 1645	Aerobee 150	-	NASA 04.274DS	-	-	-	-	WS	LC35	-	-	182	-	-
1969-S302	2440338.64	1969 Apr 27 0322:00	Aerobee 150	-	NASA 04.278UG	MIT-6	-	-	-	WS	LC35	-	-	158	-	-
1969-S329	2440357.47	1969 May 15 2310	Aerobee 150A	-	NASA 04.216NB	Rat centrifuge 4	-	-	-	WI	-	-	-	158	-	-
1969-S331	2440358.35	1969 May 16 2020:00	Aerobee 150 MI	20	NASA 04.232GS	GSFC EUV Spec	-	-	-	WS	LC35	-	-	202	-	-
1969-S362	2440385.73	1969 Jun 13 0530	Aerobee 150	-	KP3.28	-	-	-	-	WS	LC35	-	-	150	-	-
1969-S363	2440386.29	1969 Jun 13 1900	Aerobee 150 MI	20	NASA 04.242UA	Mariner-71 test	-	-	-	WS	LC35	-	-	172	-	-
1969-S364	2440387.41	1969 Jun 14 2152	Aerobee 150	-	NASA 04.184UG-IG	-	-	-	-	CLBI	-	-	-	200?	-	-
1969-S374	2440392.74	1969 Jun 20 0545	Aerobee 150 MI	20	NASA 04.269UG	-	-	-	-	WS	LC35	-	-	181	-	-
1969-S376	2440394.73	1969 Jun 22 0528	Aerobee 150	-	NASA 04.183UG	-	-	-	-	CLBI	-	-	-	165	-	-
1969-S378	2440397.29	1969 Jun 24 1900	Aerobee 150	-	CRL AT3.535	EUV Mon	-	-	-	WS	LC35	-	-	216	-	-
1969-S724	2440439.50	1969 Aug 6	Aerobee 150	-	-	Solar radiation	-	-	-	WS?	-	-	-	150?	-	-
1969-S454	2440449.41	1969 Aug 15 2155	Aerobee 150	-	CRL A03.903-1	EUV Mon	-	-	-	WS	LC35	-	-	211	-	-
1969-S490	2440474.69	1969 Sep 10 0435	Aerobee 150	-	NASA 04.312UG	-	-	-	-	WS	LC35	-	-	157	-	-
1969-S493	2440475.93	1969 Sep 11 1021	Aerobee 150	-	NASA 04.193US	Solar Studies	-	-	-	WS	LC35	-	-	200?	-	-
1969-S506	2440482.28	1969 Sep 17 1845	Aerobee 150 MI	20	NASA 04.166DS	-	-	-	-	WS	LC35	-	-	218	-	-
1969-S512	2440485.84	1969 Sep 21 0805	Aerobee 150	-	NRL NB3.202	Stellar Lyman Alpha	-	-	-	WS	LC35	-	-	184	-	-
1969-S514	2440488.19	1969 Sep 23 1636	Aerobee 150	-	NASA 04.170US	-	-	-	-	WS	LC35	-	-	174	-	-
1969-S518	2440489.24	1969 Sep 24 1745	Aerobee 150	-	NASA 04.294US	-	-	-	-	WS	LC35	-	-	200	-	-
1969-S531	2440497.60	1969 Oct 3 0224	Aerobee 150 MI	20	NASA 04.279UG	MIT-7 GC Survey III	-	-	-	WS	LC35	-	-	158	-	-
1969-S542	2440508.67	1969 Oct 14 0400	Aerobee 150	-	NRL NC3.136	-	-	-	-	WS	LC35	-	-	217	-	-
1969-S550	2440510.94	1969 Oct 16 1030	Aerobee 150	-	NASA 04.256GG	Zeta Ori study	-	-	-	WS	LC35	-	-	205	-	-
1969-S572	2440517.71	1969 Oct 23 0500	Aerobee 150	-	CRL A03.910-2	IR airglow profile	-	-	-	FC	-	-	-	190	-	-
1969-S609	2440530.31	1969 Nov 4 1929	Aerobee 150 MI	20	NASA 04.136DS	NRL NE3.215 FDVU-2M	-	-	-	WS	LC35	-	-	200	-	-
1969-S610	2440530.35	1969 Nov 4 2027	Aerobee 150 MI	20	NASA 04.283CS	-	-	-	-	WS	LC35	-	-	181	-	-
1969-S646	2440559.77	1969 Dec 4 0628	Aerobee 150	-	NASA 04.175UG	-	-	-	-	WS	LC35	-	-	200?	-	-
1969-S669	2440568.50	1969 Dec 13	Aerobee 150	-	NASA 04.252GG-UG	UVT-SDGS 2	-	-	-	WS	LC35	-	-	200?	-	-
1969-S682	2440573.27	1969 Dec 17 1830	Aerobee 150 MI	20	NASA 04.167DS	-	-	-	-	WS	LC35	-	-	204	-	-
1970-S82	2440611.46	1970 Jan 24 2300	Aerobee 150	-	NRL NF3.193	Solar IR	-	-	-	WS	LC35	-	-	207	-	-
1970-S83	2440611.60	1970 Jan 25 0220	Aerobee 150 MI	20	NASA 04.270UG	-	-	-	-	WS	LC35	-	-	169	-	-
1970-S107	2440624.62	1970 Feb 7 0300	Aerobee 150	-	NASA 04.262GG	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S108	2440624.73	1970 Feb 7 0531	Aerobee 150 MI	-	CRL AT3.726	MAP-I/LO STAR I	-	-	-	WS	LC32	-	-	142	-	-
1970-S180	2440646.67	1970 Mar 1 0400	Aerobee 150	-	NRL NB3.237	-	-	-	-	WS	LC35	-	-	210	-	-
1970-S213	2440653.28	1970 Mar 7 1836:15	Aerobee 150	-	NASA 04.317US	FUV Eclipse Spectrum	-	-	-	WI	LA1	-	-	142	-	-
1970-S221	2440653.29	1970 Mar 7 1852	Aerobee 150	-	NASA 04.284CS	-	-	-	-	WS	LC35	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S224	2440653.29	1970 Mar 7 1900	Aerobee 150	-	NASA 04.137DS	NRL NE3.216	-	-	-	WS	LC35	-	-	187	-	-
1970-S227	2440653.31	1970 Mar 7 1930	Aerobee 150A	-	NASA 04.275DS	NRL NE3.235	-	-	-	WS	LC35	-	-	163	-	-
1970-S245	2440658.76	1970 Mar 13 0618	Aerobee 150	-	CRL A03.006-1	Electron beam	-	-	-	FC	-	-	-	205	-	-
1970-S246	2440659.65	1970 Mar 14 0334	Aerobee 150	-	NASA 04.328DG	UV	-	-	-	WS	LC35	-	-	164	-	-
1970-S266	2440671.70	1970 Mar 26 0444	Aerobee 150 MI	17	NASA 04.309UA	JHU Aurora 8	-	-	-	FC	-	-	-	163	-	-
1970-S297	2440690.02	1970 Apr 13 1234	Aerobee 150	-	NASA 04.321UA	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S331	2440700.87	1970 Apr 24 0853	Aerobee 150	-	KP3.30	CAL XR 5 [Ae170?]	-	-	-	WS	LC35	-	-	274	-	-
1970-S336	2440704.88	1970 Apr 28 0900	Aerobee 150	-	NASA 04.326NA	Luster	-	-	-	FC	-	-	-	127	-	-
1970-S340	2440708.16	1970 May 1 1553	Aerobee 150	-	NASA 04.327NA	Luster	-	-	-	FC	-	-	-	128	-	-
1970-S355	2440718.32	1970 May 11 1942	Aerobee 150	-	NASA 04.322UA	-	-	-	-	FC	-	-	-	188	-	-
1970-S368	2440731.83	1970 May 25 0800	Aerobee 150	-	NRL NB3.211	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S369	2440733.00	1970 May 26 1207	Aerobee 150	-	NASA 04.316NG	-	-	-	-	WOO	LA8	-	-	200?	-	-
1970-S375	2440736.07	1970 May 29 1345	Aerobee 150	-	NASA 04.301UG	-	-	-	-	WOO	LA8	-	-	200?	-	-
1970-S384	2440740.25	1970 Jun 2 1800	Aerobee 150	-	NASA 04.302UG	-	-	-	-	WOO	LA8	-	-	200?	-	-
1970-S386	2440739.70	1970 Jun 2 0447	Aerobee 150	-	NASA 04.271UG	-	-	-	-	WS	LC35	-	-	165	-	-
1970-S385	2440739.79	1970 Jun 2 0700	Aerobee 150	-	NASA 04.311UA	JHU UVT F5 (Jupiter)	-	-	-	WS	LC35	-	-	200?	-	-
1970-S394	2440753.16	1970 Jun 15 1555	Aerobee 150	-	KP3.31	-	-	-	-	WS	LC35	-	-	150	-	-
1970-S400	2440760.11	1970 Jun 22 1445	Aerobee 150	-	NASA 04.323US	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S414	2440769.75	1970 Jul 2 0601	Aerobee 150 MII	20	NASA 04.299UG	-	OAO Cal	-	-	WS	LC35	-	-	168	-	-
1970-S450	2440794.69	1970 Jul 27 0437	Aerobee 150	-	NASA 04.259GG	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S481	2440811.27	1970 Aug 12 1826	Aerobee 150	-	CRL A03.903-2	EUV	-	-	-	WS	LC35	-	-	222	-	-
1970-S484	2440812.29	1970 Aug 13 1902	Aerobee 150	-	NASA 04.200DS	NRL NE3.247 (S082)	-	-	-	WS	LC35	-	-	186	-	-
1970-S584	2440888.18	1970 Oct 28 1623	Aerobee 150	-	NASA 04.131UA	Structure	-	-	-	WS	LC35	-	-	200?	-	-
1970-S624	2440915.36	1970 Nov 24 2045	Aerobee 150	-	NASA 04.285CS	-	-	-	-	WS	LC35	-	-	200?	-	-
1970-S631	2440922.81	1970 Dec 2 0730	Aerobee 150	-	NASA 04.267UG	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S80	2440974.60	1971 Jan 23 0230	Aerobee 150	-	NASA 04.260GG	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S86	2440976.98	1971 Jan 25 1130	Aerobee 150	-	NASA 04.318UA	JHU UVT F6 (Venus)	-	-	-	WS	LC35	-	-	160?	-	-
1971-S131	2441007.11	1971 Feb 24 1440	Aerobee 150	-	NASA 04.249NA	Luster (Encke)	-	-	-	WS	LC35	-	-	200?	-	-
1971-S139	2441011.99	1971 Mar 1 1140	Aerobee 150	-	KP3.32	Venus LyAlpha	-	-	-	WS	LC35	-	-	160	-	-
1971-S208	2441037.61	1971 Mar 27 0244	Aerobee 150	-	NRL NB3.245	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S265	2441072.88	1971 May 1 0900	Aerobee 150	-	NASA 04.332GG	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S296	2441090.81	1971 May 19 0730	Aerobee 150	-	NASA 04.303NG	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S317	2441099.90	1971 May 28 0940	Aerobee 150 MI	-	KP3.37	-	-	-	-	WS	LC35	-	-	179	-	-
1971-S330	2441117.22	1971 Jun 14 1717	Aerobee 150	-	NASA 04.324US	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S335	2441125.31	1971 Jun 22 1920	Aerobee 150	-	NASA 04.237NA	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S352	2441133.22	1971 Jun 30 1710	Aerobee 150	-	NASA 04.234GS	-	-	-	-	WS	LC35	-	-	200?	-	-
1971-S526	2441240.60	1971 Oct 16 0231	Aerobee 150	-	CRL A03.910-1	IR Airglow	-	-	-	WS	LC35	-	-	215	-	-
1971-S555	2441265.29	1971 Nov 9 1900	Aerobee 150	-	CRL A03.002-4	XUV	-	-	-	WS	LC35	-	-	215	-	-
1971-S556	2441265.29	1971 Nov 9 1900	Aerobee 150	-	CRL A03.002-3	XUV	-	-	-	WS	LC35	-	-	219	-	-
1971-S559	2441272.16	1971 Nov 16 1545	Aerobee 150	-	KP3.36	-	-	-	-	WS	LC35	-	-	200?	-	-
1972-S95	2441379.27	1972 Mar 2 1827	Aerobee 150	-	NRL NA3.218	-	-	-	-	WS	LC35	-	-	200?	-	-
1972-S120	2441393.82	1972 Mar 17 0747:35	Aerobee 150	-	NASA 04.320UA	JHU Aurora 9	-	-	-	FC	-	-	-	162	-	-
1972-S144	2441407.63	1972 Mar 31 0310	Aerobee 150	-	NASA 04.329UA	UM Aeronomy	-	-	-	FC	-	-	-	181	-	-
1972-S145	2441408.66	1972 Apr 1 0347	Aerobee 150	-	NRL NB3.254	-	-	-	-	WS	LC35	-	-	200?	-	-
1972-S177	2441429.13	1972 Apr 21 1513	Aerobee 150	-	NASA 04.208UA	-	-	-	-	WS	LC35	-	-	200?	-	-
1972-S246	2441490.33	1972 Jun 21 2001	Aerobee 150	-	NASA 04.304NA	-	-	-	-	WS	LC35	-	-	200?	-	-
1973-S85	2441741.73	1973 Feb 28 0535	Aerobee 150	-	NASA 04.330UA	-	-	-	-	FC	-	-	-	180	-	-
1973-S159	2441799.70	1973 Apr 27 0453	Aerobee 150	-	CRL A03.911-1	UV Absorption	-	-	-	WS	LC35	-	-	121	-	-
1973-S173	2441826.19	1973 May 23 1630	Aerobee 150A	-	NASA 04.235UA	-	-	-	-	WS	LC35	-	-	111	-	-
1973-S274	2441904.95	1973 Aug 10 1052	Aerobee 150	-	CRL A03.211-1	Bremstrahlung	-	-	-	WS	LC35	-	-	168	-	-
1974-S429	2442228.65	1974 Jun 30 0331	Aerobee 150	-	NRL NC3.256	NRL P3 Probe	-	-	-	WS	LC36	-	-	229	-	-
1975-S96	2442482.39	1975 Mar 10 2119	Aerobee 150A MII	-	NASA 04.334UA	JHU Aurora 10	-	-	-	FC	-	-	-	172	-	-
1975-S195	2442573.93	1975 Jun 10 1015	Aerobee 150	-	CRL A03.103-1	Density/Laser Backs.	-	-	-	WS	LC35	-	-	158	-	-
1976-S185	2442917.21	1976 May 18 1700	Aerobee 150	-	GL A03.410-1	Solar XUV/UV	-	-	-	WS	LC35	-	-	190	-	-
1977-S226	2443365.17	1977 Aug 9 1610	Aerobee 150	-	GL A03.509-1	SOLAR UV	-	-	-	WS	LC35	-	-	168	-	-
1978-S185	2443714.67	1978 Jul 25 0405	Aerobee 150	-	GL A03.604	DENSITY Laser	-	-	-	WS	LC35	-	-	144	-	-
1979-S243	2444194.21	1979 Nov 16 1700	Aerobee 150	-	NASA 04.337CS	-	-	-	-	WS	LC35	-	-	154	-	-
1979-S247	2444219.55	1979 Dec 12 0105	Aerobee 150	-	NASA 04.338UE	UM Airglow Pay.	-	-	-	WS	LC35	-	-	122	-	-
1981-S179	2444946.50	1981 Dec 8	Aerobee 150	-	NASA 04.339UE	UM Airglow Pay.	-	-	-	WS	LC35	-	-	200?	-	-
1983-S151	2445576.06	1983 Aug 29 1320	Aerobee 150	-	NASA 04.340UG	JHU Airglow 13 (HUT)	-	-	-	WS	LC35	-	-	200?	-	-
1983-S169	2445600.41	1983 Sep 22 2145	Aerobee 150	-	NASA 04.341UE	UM Airglow Pay.	-	-	-	WS	LC35	-	-	200?	-	-
1985-S25	2446083.12	1985 Jan 17 1500	Aerobee 150 MI	20	NASA 04.342UG	JHU Airglow 14 (HUT)	-	-	-	WS	LC35 L-21B	-	-	169	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1947-A18	2432453.50	1947 Sep 25	Aerobee RTV-N-8	-	A1	0.000	APL	SS	-	APL/	Test	Newell	-	-
1947-A20	2432460.50	1947 Oct 2	Aerobee RTV-N-8	-	A2	0.000	APL	SS	-	APL/	Test	Newell	-	-
1947-A27	2432489.50	1947 Oct 31	Aerobee RTV-N-8	-	A3	0.000	APL	SS	-	APL/	Test	Newell	-	-
1947-M06	2432514.22	1947 Nov 24 1720	Aerobee RTV-N-8	-	A4	0.000	APL	SF	S2	APL/VanAllen	CR	Newell	-	-
1948-S03	2432616.45	1948 Mar 5 2251	Aerobee RTV-N-8	-	A5	0.000	APL	SS	-	APL/VanAllen	CR	Newell	PhysRev75,57	-
1948-S05	2432655.40	1948 Apr 13 2141	Aerobee RTV-N-8	-	A6	0.000	APL	SS	-	APL/Singer	Magnetospheric	Newell	-	-
1948-S08	2432759.20	1948 Jul 26 1647	Aerobee RTV-N-8	-	A7	0.000	APL	SS	-	APL/Holliday	Earth imaging	Newell	-	-
1948-S11	2432769.57	1948 Aug 6 0137	Aerobee RTV-N-8	-	NRL 1	0.000	NRL	SS	-	NRL/Havens,LaGow	Aeron/Solar UV	Newell	-	-
1948-S19	2432857.51	1948 Nov 2 0015	Aerobee RTV-N-8	-	A8	0.000	APL	SS	-	APL/NRL/VanAllen	Particles/Solar X	Newell	-	-
1948-S25	2432895.44	1948 Dec 9 2238	Aerobee XASR-SC-1	-	SC 1	0.000	SCEL	SF	S2	UMI/Nichols	Aeronomy	Newell	-	-
1949-S01	2432945.76	1949 Jan 29 0617	Aerobee RTV-N-8	-	NRL 2	0.000	NRL	SS	-	NRL/	Ionos/Solar X	Newell	-	-
1949-A04	2432949.28	1949 Feb 1 1838	Aerobee RTV-N-8	-	NRL 3	0.000	NRL	SF	U	NRL/	Solar UV,X	Newell	-	-
1949-A06	2432976.50	1949 Mar 1	Aerobee RTV-N-8	-	A9	0.000	APL	SS	-	APL/VanAllen	Test	Newell	-	-
1949-S04	2432993.47	1949 Mar 17 2320	Aerobee RTV-N-8	-	A10	0.000	APL	SS	-	APL/VanAllen	Ionospheric	Newell	PhysRev78,50	-
1949-S06	2432998.22	1949 Mar 22 1720	Aerobee RTV-N-8	-	A11	0.000	APL	SS	-	APL/VanAllen	Ionospheric	Newell	-	-
1949-A07	2433000.13	1949 Mar 24 1514	Aerobee RTV-N-8	-	A12	0.000	APL	SF	U	APL/VanAllen	Ionospheric	Newell	-	-
1949-M03	2433070.05	1949 Jun 2 1310	Aerobee XASR-SC-1	-	SC 2	0.000	SCEL	SS	-	UMI/Nichols	Aeronomy	Newell	-	-
1949-S16	2433082.59	1949 Jun 15 0203	Aerobee RTV-N-8	-	NRL 5	0.000	NRL	SS	-	NRL/Johnson,Purcell	Solar UV	Newell	-	-
1949-S17	2433084.99	1949 Jun 17 1150	Aerobee RTV-N-8	-	A13	0.000	APL	SS	-	APL/	Test	Newell	-	-
1949-S18	2433091.47	1949 Jun 23 2321	Aerobee RTV-N-8	-	A14	0.000	APL	SS	-	APL/NRL/VanAllen,Singer	Particles/Solar X/Aeron	Newell	-	-
1949-M04	2433119.17	1949 Jul 21 1601	Aerobee XASR-SC-1	-	SC 4	0.000	SCEL	SS	-	UMI/Nichols	Aeronomy	Newell	-	-
1949-M06	2433180.21	1949 Sep 20 1703	Aerobee XASR-SC-1	-	SC 5	0.000	SCEL	SS	-	UMI/Nichols	Aeronomy	Newell	-	-
1949-S45	2433253.43	1949 Dec 2 2220	Aerobee RTV-A-1	-	USAF 1	0.000	AFCRL	SS	-	AFCRL/BU/WADC/	Solar X/Aeron/imaging	Newell	-	-
1949-M08	2433257.27	1949 Dec 6 1832	Aerobee XASR-SC-1	-	SC 3	0.000	SCEL	SS	-	UMI/Nichols	Aeronomy	Newell	-	-
1949-M09	2433257.51	1949 Dec 7 0016	Aerobee XASR-SC-1	-	SC 7	0.000	SCEL	SS	-	UMI/Nichols	Aeronomy	Newell	-	-
1949-A28	2433266.22	1949 Dec 15 1710	Aerobee RTV-A-1	-	USAF 2	0.000	AFCRL	SF	S1	AFCRL/UM	Solar X/Aeron	Newell	-	-
1950-M01	2433297.49	1950 Jan 15 2345	Aerobee RTV-N-10	-	A15	0.000	APL	SS	-	APL/VanAllen	Particles	Newell	-	-
1950-M02	2433300.47	1950 Jan 18 2317	Aerobee RTV-N-10	-	A16	0.000	APL	SS	-	APL/VanAllen	Particles	Newell	-	-
1950-S01	2433327.47	1950 Feb 14 2314	Aerobee RTV-N-8	-	NRL 4	0.000	NRL	SS	-	NRL/Perlow	Ionospheric	Newell	PhysRev84,572	-
1950-A07	2433334.54	1950 Feb 22 0054	Aerobee XASR-SC-1	-	SC 9	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	-	-
1950-M04	2433344.52	1950 Mar 4 0036	Aerobee XASR-SC-1	-	SC 6	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	-	-
1950-A11	2433355.36	1950 Mar 14 2043	Aerobee RTV-A-1	-	USAF 3	0.000	AFCRL	SF	S2	AFCRL/RIU/	Solar X/UV?	Newell	-	-
1950-S03	2433397.55	1950 Apr 26 0111	Aerobee XASR-SC-2	-	SC 11	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	-	-
1950-S05	2433414.02	1950 May 12 1230	Aerobee RTV-N-10	-	A17	0.000	APL	SS	-	APL/VanAllen?	Particles	Newell	-	-
1950-M05	2433428.32	1950 May 26 1943	Aerobee RTV-A-1	-	USAF 4	0.000	AFCRL	SS	-	RIU/	Solar UV?	Newell	-	-
1950-A25	2433435.21	1950 Jun 2 1707	Aerobee RTV-A-1	-	USAF 5	0.000	AFCRL	SF	S2	AFCRL/	Opt Astronomy	Newell	-	-
1950-S06	2433453.15	1950 Jun 20 1538	Aerobee RTV-A-1	-	USAF 6	0.000	AFCRL	SS	-	UMI/Sicinski	Aeronomy	Newell	JApplPhys25,161	-
1950-M07	2433476.86	1950 Jul 14 0839	Aerobee XASR-SC-1	-	SC 8	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1950-A31	2433497.49	1950 Aug 3 2352	Aerobee RTV-N-10	-	NRL 6	0.000	NRL	SF	U	NRL/	Solar UV,X	Newell	-	-
1950-S07	2433511.16	1950 Aug 17 1545	Aerobee RTV-N-10	-	A18	0.000	APL	SS	-	APL/Gangnes	Aeronomy	Newell	-	-
1950-S11	2433567.32	1950 Oct 12 1936	Aerobee RTV-A-1	-	USAF 7	0.000	AFCRL	SS	-	WADC/BU/	Imaging	Newell	-	-
1950-M10	2433571.67	1950 Oct 17 0400	Aerobee XASR-SC-2	-	SC 10	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1950-S12	2433572.69	1950 Oct 18 0430	Aerobee XASR-SC-2	-	SC 12	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	-	-
1950-M11	2433582.06	1950 Oct 27 1330	Aerobee XASR-SC-2	-	SC 13	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	-	-
1950-S19	2433588.19	1950 Nov 2 1629	Aerobee RTV-A-1	-	USAF 8	0.000	AFCRL	SS	-	UCO/DENV/	Aeronomy	Newell	-	-
1950-A62	2433627.21	1950 Dec 11 1704	Aerobee XASR-SC-2	-	SC 15	0.000	SCEL	SF	U	UMI/Jones.L	Aeronomy	Newell	-	-
1950-S25	2433627.67	1950 Dec 12 0406	Aerobee XASR-SC-2	-	SC 14	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1950-M14	2433627.88	1950 Dec 12 0910	Aerobee XASR-SC-2	-	SC 16	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1950-S26	2433628.27	1950 Dec 12 1826	Aerobee RTV-A-1	-	USAF 9	0.000	AFCRL	SS	-	UMI/Sicinski?	Aeronomy	Newell	-	-
1950-S27	2433635.29	1950 Dec 19 1852	Aerobee XASR-SC-2	-	SC 17	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	-	-
1951-S01	2433669.45	1951 Jan 22 2255	Aerobee RTV-N-10	-	A19	0.000	APL	SS	-	APL/	Aeronomy	Newell	-	-
1951-S02	2433672.12	1951 Jan 25 1500	Aerobee RTV-N-10	-	A20	0.000	APL	SS	-	APL/	Aeron	Newell	-	-
1951-S08	2433684.22	1951 Feb 6 1720	Aerobee RTV-N-10	-	A21	0.000	APL	SS	-	APL/	Imaging	Newell	-	-
1951-M03	2433734.47	1951 Mar 28 2314	Aerobee RTV-A-1	-	USAF 10	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	Newell	-	-
1951-A12	2433749.23	1951 Apr 12 1726	Aerobee RTV-A-1	-	USAF 11	0.000	AFCRL	SS	-	UCO/	Solar UV	Newell	-	-
1951-M04	2433755.28	1951 Apr 18 1839	Aerobee RTV-A-1	-	USAF 12	0.000	AFCRL	SS	-	HAM/	Biology	Newell	-	-
1951-A24	2433796.32	1951 May 29 1946	Aerobee RTV-A-1	-	USAF 13	0.000	AFCRL	SF	U	BU/	Ionos	Newell	-	-
1951-S09	2433805.51	1951 Jun 8 0011	Aerobee RTV-A-1	-	USAF 14	0.000	AFCRL	SS	-	AFCRL/	Solar X/Aeron	Newell	-	-
1951-A28	2433805.55	1951 Jun 8 0118	Aerobee XASR-SC-1	-	SC 19	0.000	SCEL	SF	U	UMI/Jones.L	Aeronomy	Newell	-	-
1951-M05	2433806.76	1951 Jun 9 0611	Aerobee XASR-SC-1	-	SC 18	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1951-M07	2433853.18	1951 Jul 25 1626	Aerobee RTV-A-1	-	USAF 15	0.000	AFCRL	SS	-	AFCRL/	Aeron	Newell	-	-
1951-S36	2433866.19	1951 Aug 7 1636	Aerobee RTV-A-1	-	USAF 16	0.000	AFCRL	SS	-	BU/	Ionos	Newell	-	-
1951-M08	2433889.44	1951 Aug 30 2240	Aerobee RTV-A-1b	-	USAF 17	0.000	AFCRL	SS	-	AFCRL/HADC/	Test	Newell	-	-
1951-M09	2433902.98	1951 Sep 13 1137	Aerobee RTV-A-1	-	USAF 18	0.000	AFCRL	SS	-	UMI/Schulte	Aeronomy	Newell	-	-
1951-M10	2433910.19	1951 Sep 20 1631	Aerobee RTV-A-1	-	USAF 19	0.000	AFCRL	SS	-	HAM/	Biology	Newell	-	-
1951-M11	2433916.50	1951 Sep 27 0006	Aerobee XASR-SC-1	-	SC 21	0.000	SCEL	SS	-	UMI/	Aeron	Newell	-	-
1951-S43	2433937.26	1951 Oct 17 1817	Aerobee RTV-A-1a	-	USAF 20	0.000	AFCRL	SS	-	BU/	Ionos	Newell	-	-
1951-M12	2433951.91	1951 Nov 1 0945	Aerobee XASR-SC-1	-	SC 20	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1951-S45	2433953.52	1951 Nov 3 0035	Aerobee XASR-SC-1	-	SC 22	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	-	-
1952-A20	2434042.36	1952 Jan 30 2045	Aerobee RTV-A-1a	-	USAF 21	0.000	AFCRL	SF	U	AFCRL/UUT/	Ionos	Newell	-	-
1952-S01	2434062.21	1952 Feb 19 1700	Aerobee RTV-N-10	-	NRL 7	0.000	NRL	SS	-	NRL/	Solar/CR	Newell	-	-
1952-S02	2434072.11	1952 Feb 29 1440	Aerobee RTV-A-1	-	USAF 23	0.000	AFCRL	SS	-	AFCRL/UUT/	Aeronomy SB	Newell	-	-
1952-S03	2434125.23	1952 Apr 22 1728	Aerobee RTV-A-1	-	USAF 24	0.000	AFCRL	SS	-	BU/	Ionos	Newell	-	-
1952-S04	2434133.06	1952 Apr 30 1330	Aerobee RTV-N-10	-	NRL 8	0.000	NRL	SS	-	NRL/Byram	Solar UV/CR	Newell	PhysRev91,1278	-
1952-S06	2434134.15	1952 May 1 1542	Aerobee RTV-A-1	-	USAF 25	0.000	AFCRL	SS	-	AFCRL/RIU/	Solar UV	Newell	-	-
1952-S05	2434134.12	1952 May 1 1459	Aerobee RTV-N-10	-	NRL 9	0.000	NRL	SS	-	NRL/Byram	Solar X,UV	Newell	PhysRev91,1278	-
1952-S07	2434138.07	1952 May 5 1344	Aerobee RTV-N-10	-	NRL 10	0.000	NRL	SS	-	NRL/Byram	Solar X/UV/CR	Newell	PhysRev91,1278	-
1952-M01	2434147.55	1952 May 15 0115	Aerobee XASR-SC-1	-	SC 23	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	UM-HA-2	-
1952-S08	2434152.59	1952 May 20 0207	Aerobee XASR-SC-1	-	SC 24	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	-	-
1952-M02	2434154.14	1952 May 21 1515	Aerobee RTV-A-1	-	USAF 26	0.000	AFCRL	SS	-	HAM/	Biology	Newell	-	-
1952-S10	2434182.24	1952 Jun 18 1750	Aerobee RTV-A-1	-	USAF 27	0.000	AFCRL	SS	-	DENV/	Solar UV	Newell	-	-
1952-S11	2434194.11	1952 Jun 30 1432	Aerobee RTV-A-1	-	USAF 28	0.000	AFCRL	SS	-	AFCRL/	Aeronomy SB	Newell	-	-
1952-A143	2434251.29	1952 Aug 26 1853	Aerobee RTV-A-1a	-	USAF 29	0.000	AFCRL	SF	U	AFCRL/UUT/	Ionos	AFCRL	-	-
1952-S29	2434259.12	1952 Sep 3 1449	Aerobee RTV-N-10	-	NRL 11	0.000	NRL	SS	-	NRL/	Solar UV/X	Newell	-	-
1952-S31	2434280.66	1952 Sep 25 0350	Aerobee XASR-SC-1	-	SC 25	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1952-S32	2434296.10	1952 Oct 10 1424	Aerobee RTV-A-1	-	USAF 30	0.000	AFCRL	SS	-	AFCRL/DENV/	Solar UV	Newell	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-S34	2434308.11	1952 Oct 22 1435	Aerobee RTV-A-1	-	USAF 31	0.000	AFCRL	SS	-	UMI/	Aeronomy	Newell	-	-
1952-S33	2434308.66	1952 Oct 23 0345	Aerobee XASR-SC-2	-	SC 26	0.000	SCEL	SS	-	SCEL/	Aeronomy	JGR61,45	Newell	-
1952-M09	2434323.16	1952 Nov 6 1556	Aerobee RTV-A-1	-	USAF 32	0.000	AFCRL	SS	-	AFCRL/	Aeronomy SB	Newell	-	-
1952-S39	2434358.49	1952 Dec 11 2347	Aerobee XASR-SC-1	-	SC 29	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell/UM-FS	UM-HA-7	-
1952-S40	2434359.32	1952 Dec 12 1938	Aerobee RTV-A-1	-	USAF 33	0.000	AFCRL	SS	-	UCO/Rense	Solar UV	Newell	PhysRev90,156	-
1953-S01	2434419.38	1953 Feb 10 2109	Aerobee RTV-N-10	-	NRL 12	0.000	NRL	SS	-	NRL/Townsend	Aeronomy/CR	Newell	-	-
1953-S02	2434420.80	1953 Feb 12 0709	Aerobee RTV-N-10	-	NRL 13	0.000	NRL	SS	-	NRL/Townsend	Aeronomy/CR	Newell	AnnalesGeo17,100	-
1953-S03	2434426.78	1953 Feb 18 0650	Aerobee XASR-SC-2	-	SC 27	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	-	-
1953-S04	2434427.24	1953 Feb 18 1742	Aerobee RTV-A-1a	-	USAF 34	0.000	AFCRL	SS	-	AFCRL/	Test	Newell	JGR61,45	-
1953-S10	2434482.16	1953 Apr 14 1547	Aerobee RTV-A-1a	-	USAF 35	0.000	AFCRL	SS	-	AFCRL/	Test	Newell	-	-
1953-S13	2434491.31	1953 Apr 23 1933	Aerobee XASR-SC-2	-	SC 30	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	UM-HA-6/UM-FS	Newell	-
1953-S12	2434491.93	1953 Apr 24 1019	Aerobee XASR-SC-2	-	SC 28	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell/UM-HA-6	JGR61,45	-
1953-S18	2434518.09	1953 May 20 1404	Aerobee RTV-A-1a	-	USAF 36	0.000	AFCRL	SS	-	AFCRL/	Aeronomy SB	Newell	-	-
1953-S19	2434519.16	1953 May 21 1547	Aerobee RTV-A-1a	-	USAF 37	0.000	AFCRL	SS	-	AFCRL/	Aeronomy SB	Newell	-	-
1953-S22	2434555.30	1953 Jun 26 1910	Aerobee RTV-A-1a	-	USAF 38	0.000	AFCRL	SS	-	AFCRL/UUT/Dow,Linford	Ionos	Newell	JGR63,315	-
1953-S23	2434560.24	1953 Jul 1 1752	Aerobee RTV-A-1a	-	USAF 39	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1953-S25	2434573.15	1953 Jul 14 1530	Aerobee RTV-A-1a	-	USAF 40	0.000	AFCRL	SS	-	AFCRL/RIU/	Solar UV	Newell	-	-
1953-S26	2434581.91	1953 Jul 23 0947	Aerobee RTV-A-1a	-	USAF 41	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	Newell	-	-
1953-S31	2434621.71	1953 Sep 1 0505	Aerobee XASR-SC-2	-	SC 32	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1953-S35	2434625.73	1953 Sep 5 0536	Aerobee XASR-SC-1	-	SC 33	0.000	SCEL	SS	-	SCEL/	Aeronomy	Newell	JGR61,45	-
1953-A358	2434636.13	1953 Sep 15 1502	Aerobee RTV-A-1a	-	USAF 42	0.000	AFCRL	SF	U	AFCRL/	Aeronomy SB	Newell	-	-
1953-M10	2434650.37	1953 Sep 29 2050	Aerobee RTV-A-1a	-	SC 31	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell/UM-FS	UM-HA-7	-
1953-S40	2434658.21	1953 Oct 7 1700	Aerobee RTV-A-1a	-	USAF 43	0.000	AFCRL	SS	-	AFCRL/UCO/	Solar	Newell	-	-
1953-S59	2434684.27	1953 Nov 2 1832	Aerobee RTV-A-1a	-	USAF 44	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1953-S60	2434685.26	1953 Nov 3 1815	Aerobee RTV-A-1a	-	USAF 45	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1953-S64	2434701.44	1953 Nov 19 2240	Aerobee RTV-N-10	-	NRL 14	0.000	NRL	SS	-	NRL/Byram,Chubb	Solar X/UV/Aeron	Newell	PhysRev98,1594	-
1953-S66	2434707.16	1953 Nov 25 1546	Aerobee RTV-N-10	-	NRL 15	0.000	NRL	SS	-	NRL/Byram	Solar X/UV/Aeron	Newell	PhysRev98,1594	-
1953-S68	2434713.15	1953 Dec 1 1530	Aerobee RTV-N-10	-	NRL 16	0.000	NRL	SS	-	NRL/Byram	Solar X/UV/Aeron	Newell/JGR61,251	PhysRev98,1594	-
1954-S02	2434776.27	1954 Feb 2 1835	Aerobee RTV-N-10	-	NRL 20	0.000	NRL	SS	-	NRL/	Solar UV	Newell	-	-
1954-S08	2434842.38	1954 Apr 9 2112	Aerobee RTV-N-10	-	NRL 18	0.000	NRL	SS	-	NRL/Townsend?	Aeronomy	Newell	-	-
1954-A163	2434842.88	1954 Apr 10 0900	Aerobee RTV-N-10	-	NRL 19	0.000	NRL	SF	U	NRL/Townsend?	Aeronomy	Newell	-	-
1954-S29	2434874.12	1954 May 11 1500	Aerobee RTV-A-1a	-	USAF 46	0.000	AFCRL	SS	-	AFCRL/	Test	Newell	-	-
1954-S35	2434896.17	1954 Jun 2 1610	Aerobee RTV-A-1a	-	USAF 47	0.000	AFCRL	SS	-	AFCRL/UCO/	Test	Newell	-	-
1954-S43	2434938.08	1954 Jul 14 1355	Aerobee RTV-A-1a	-	USAF 48	0.000	AFCRL	SS	-	UMI/Schulte	Aeronomy	Newell	-	-
1954-S62	2434966.23	1954 Aug 11 1725	Aerobee RTV-A-1a	-	USAF 49	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	AFCRL	-	-
1954-S70	2435003.10	1954 Sep 17 1431	Aerobee RTV-A-1a	-	USAF 50	0.000	AFCRL	SS	-	AFCRL/RIU/	Solar UV	Newell	-	-
1954-S76	2435021.26	1954 Oct 5 1815	Aerobee RTV-N-10b	-	RTV-N-10b	0.000	NRL	SS	-	NRL/Berg	Remote Sensing	Newell	MonthlyWxRev1955,119	-
1955-S06	2435129.54	1955 Jan 22 0054	Aerobee RTV-A-1a	-	USAF 51	0.000	AFCRL	SS	-	AFCRL/Edwards	Aeronomy	UpperAirSummary	AirglowAurora	-
1955-S18	2435146.29	1955 Feb 7 1851	Aerobee RTV-A-1a	-	USAF 52	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1955-M01	2435149.44	1955 Feb 10 2238	Aerobee RTV-A-1a	-	USAF 53	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	AFCRL	-	-
1955-S19	2435160.27	1955 Feb 21 1825	Aerobee RTV-N-10c	-	NRL 29	0.000	NRL	SS	-	NRL/Tousey	Solar	Newell	-	-
1955-S22	2435185.75	1955 Mar 19 0600	Aerobee RTV-N-10	-	NRL 26	0.000	NRL	SS	-	NRL/	Aeronomy	Newell	-	-
1955-S23	2435196.20	1955 Mar 29 1647	Aerobee RTV-A-1a	-	USAF 54	0.000	AFCRL	SS	-	AFCRL/UCO/Jursa	Solar/Aeron	Newell	-	-
1955-S32	2435219.17	1955 Apr 21 1558	Aerobee Hi	-	USAF 55	0.000	AFCRL	SS	-	AFCRL/	Test	Newell	-	-
1955-S44	2435274.55	1955 Jun 16 0111	Aerobee AJ10-27	-	USAF 56	0.000	HADC	SS	-	HADC/	Classified	Newell	-	-
1955-M02	2435282.03	1955 Jun 23 1240	Aerobee Hi	-	USAF 57	0.000	AFCRL	SF	U	AFCRL/	Test	Newell	-	-
1955-S55	2435296.86	1955 Jul 8 0839	Aerobee RTV-N-10	-	NRL 23	0.000	NRL	SS	-	NRL/Heppner,Holmes	Ionos	Newell	-	-
1955-M03	2435301.79	1955 Jul 13 0659	Aerobee RTV-N-10a	-	NRL 27	0.000	NRL	SS	-	NRL/	Aeronomy	Newell	-	-
1955-A467	2435345.04	1955 Aug 25 1300	Aerobee Hi	-	NRL 37	0.000	NRL	SF	U	NRL/Pressly,Townsend	Test	Newell	-	-
1955-S72	2435365.06	1955 Sep 14 1330	Aerobee AJ10-27	-	USAF 58	0.000	AFCRL	SS	-	AFCRL/UMI/	Test/Aeron	Newell	-	-
1955-M06	2435381.16	1955 Sep 30 1550	Aerobee AJ10-27	-	USAF 59	0.000	AFCRL	SS	-	AFCRL/UUT/UCO/	Solar UV	Newell	-	-
1955-S93	2435393.54	1955 Oct 13 0100	Aerobee RTV-A-1a	-	USAF 60	0.000	AFCRL	SS	-	AFCRL/Edwards	Aeronomy	AirglowAurora	Newell	-
1955-S96	2435399.45	1955 Oct 18 2249	Aerobee RTV-N-10c	-	NRL 34	0.000	NRL	SS	-	NRL/Kupperian,Friedman	Solar UV/Solar X	Newell	-	-
1955-S97	2435402.51	1955 Oct 22 0020	Aerobee RTV-N-10c	-	NRL 35	0.000	NRL	SS	-	NRL/Kupperian,Friedman	Solar UV	Newell	-	-
1955-S101	2435416.15	1955 Nov 4 1530	Aerobee RTV-N-10c	-	NRL 36	0.000	NRL	SS	-	NRL/Kupperian,Friedman	Solar UV	Newell	-	-
1955-S102	2435428.89	1955 Nov 17 0915	Aerobee RTV-N-10	-	NRL 25	0.000	NRL	SS	-	NRL/Kupperian,Byram	Meteorites/UV Astron	TN-D-1544	AJ62,9/JGR61,751	-
1955-S104	2435441.22	1955 Nov 29 1716	Aerobee RTV-N-10	-	NRL 24	0.000	NRL	SS	-	NRL/Heppner,Holmes	Ionos	Newell	JGR61,575	-
1955-A495	2435451.12	1955 Dec 9 1450	Aerobee Hi	-	NRL 38	0.000	NRL	SF	U	NRL/Pressly,Townsend	Test	Newell	-	-
1955-S107	2435454.71	1955 Dec 13 0500	Aerobee RTV-N-10a	-	NRL 28	0.000	NRL	SS	-	NRL/Meadows,Townsend	Aeronomy	Newell	JGR61,576	-
1955-S108	2435455.25	1955 Dec 13 1758	Aerobee AJ10-27	-	USAF 61	0.000	AFCRL	SS	-	AFCRL/UUT/UCO/	Solar UV	Newell	ApJ124,580	-
1956-S17	2435545.39	1956 Mar 12 2115	Aerobee RTV-A-1a	-	USAF 62	0.000	AFCRL	SS	-	AFCRL/Jursa,Marmo	Ionos	PlanSpaceSci1,227	Newell	-
1956-S18	2435546.86	1956 Mar 14 0845	Aerobee RTV-A-1a	-	USAF 63	0.000	AFCRL	SS	-	AFCRL/Jursa,Marmo	Ionos/Aeronomy	Newell	SAOLab	-
1956-S22	2435575.59	1956 Apr 12 0205	Aerobee RTV-A-1a	-	USAF 64	0.000	AFCRL	SS	-	AFCRL/Bedinger	Ionos/Aeronomy	Newell	JGR63,19	-
1956-A50	2435595.42	1956 May 1 2205	Aerobee Hi	-	NRL 39	0.000	NRL	SF	U	NRL/Pressly,Townsend	Test	Newell	-	-
1956-S27	2435602.12	1956 May 8 1454	Aerobee AJ10-34	-	USAF 65	0.000	AFCRL	SS	-	UCO/AFCRL/Mercure,Rense	Solar UV	Newell	JGR61,571	-
1956-S28	2435602.14	1956 May 8 1515	Aerobee Hi	-	NRL 42	0.000	NRL	SF	U	NRL/	Test	Newell	-	-
1956-S32	2435610.15	1956 May 16 1540	Aerobee Hi	-	USAF 66	0.000	AFCRL	SF	U	AFCRL/	Test	Newell	-	-
1956-M04	2435629.09	1956 Jun 4 1413	Aerobee Hi	-	NRL 46	0.000	NRL	SF	U	NRL/	Solar UV	Newell	-	-
1956-S39	2435638.37	1956 Jun 13 2051	Aerobee AJ10-34	-	USAF 67	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1956-S42	2435643.36	1956 Jun 18 2042	Aerobee AJ10-34	-	USAF 68	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	SAOLab?	-
1956-S43	2435646.28	1956 Jun 21 1848	Aerobee AJ10-34	-	USAF 69	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1956-A64	2435647.32	1956 Jun 22 1942	Aerobee RTV-N-10	-	NRL 22	0.000	NRL	SF	U	NRL/Seddon	Ionos	Newell	JGR63,209	-
1956-S46	2435651.27	1956 Jun 26 1826	Aerobee AJ10-34	-	USAF 70	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1956-S47	2435654.30	1956 Jun 29 1909	Aerobee Hi	-	NRL 50 (RV-N-13b)	0.000	NRL	SS	-	NRL/Seddon,Jackson	Ionos	Newell	JGR63,197	-
1956-S50	2435659.83	1956 Jul 5 0752	Aerobee RTV-N-10c	-	NRL 33	0.000	NRL	SS	-	NRL/Tousey	Magnetospheric/Aeron	Newell	JGR63,51	-
1956-S70	2435685.54	1956 Jul 31 0056	Aerobee AJ10-34	-	USAF 71	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	Newell	-	-
1956-A78	2435689.04	1956 Aug 3 1256	Aerobee RTV-A-1a	-	USAF 72	0.000	AFCRL	SF	U	AFCRL/	Solar UV	Newell	-	-
1956-S73	2435695.16	1956 Aug 9 1553	Aerobee XASR-SC-1	-	SC 34 (S/N 17)	0.000	SCEL	SS	-	UMI/Jones.L	Aeronomy	Newell	-	-
1956-S75	2435696.14	1956 Aug 10 1522	Aerobee XASR-SC-1	-	SC 35 (S/N 10)	0.000	SCEL	SS	-	UMI/Jones.L?	Aeronomy	Newell	-	-
1956-S88	2435769.86	1956 Oct 23 0840	Aerobee AJ10-34	-	UM AM2.21	0.000	SCEL	SS	-	UMI/Spencer	Aeronomy	FC	Newell	-
1956-M06	2435779.04	1956 Nov 1 1257	Aerobee AJ10-34	-	USAF 73	0.000	AFCRL	SS	-	AFCRL/Bedinger	Aeronomy	Newell	-	-
1956-S93	2435779.74	1956 Nov 2 0539	Aerobee AJ10-34	-	USAF 74	0.000	AFCRL	SS	-	AFCRL/Bedinger	Aeronomy	Newell	JGR63,19	-
1956-A107	2435782.83	1956 Nov 5 0750	Aerobee Hi	-	NRL 45 (RV-N-13b)	0.000	NRL	SF	U	NRL/	Auroral	FC	Newell	-
1956-M08	2435789.99	1956 Nov 12 1147:47	Aerobee RTV-A-1a	-	SM1.01	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeronomy	FC/UM-HA	Newell	-
1956-S100	2435793.31	1956 Nov 15 1932	Aerobee Hi	-	NRL 47 (RV-N-13b)	0.000	NRL	SS	-	NRL/Seddon,Jackson	Ionos	FC	Newell	-
1956-S102	2435795.20	1956 Nov 17 1648	Aerobee Hi	-	NRL 43 (RV-N-13b)	0.000	NRL	SS	-	NRL/LaGow	Aeronomy/Solar La,X	FC	SR1,164	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-S103	2435798.72	1956 Nov 21 0521:11	Aerobee Hi	-	NRL 48 (RV-N-13c)	0.000	NRL	SS	-	NRL/Meadows,Holmes	Ionos/Auroral	Newell	AnnalesGeo17,100	-
1956-S109	2435821.41	1956 Dec 13 2144	Aerobee Hi	-	USAF 75	0.000	AFCRL	SS	-	AFCRL/	Test	Newell	-	-
1957-S12	2435871.84	1957 Feb 2 0805	Aerobee AJ10-34	-	USAF 76	0.000	AFCRL	SS	-	AFCRL/Zelikoff,Marmo	Aeronomy release	Newell	JGR63,31	-
1957-S21	2435926.70	1957 Mar 29 0451	Aerobee RTV-N-10c	-	NRL 31	0.000	NRL	SS	-	NRL/Kupperian,Boggess	UV Astronomy	Newell	SR1,599/TN-D-673	-
1957-M07	2435938.14	1957 Apr 9 1519	Aerobee AJ10-25	-	USAF 77	0.000	AFCRL	SS	-	AFCRL/	Meteorites	Newell	-	-
1957-S24	2435940.19	1957 Apr 11 1631	Aerobee Hi	-	NRL 40 (RV-N-13c)	0.000	NRL	SS	-	NRL/Pressly,Townsend	Payload test	Newell	-	-
1957-S30	2435959.13	1957 Apr 30 1510	Aerobee Hi	-	NRL 41 (RV-N-13c)	0.000	NRL	SS	-	NRL/Pressly,Townsend	Test/Meteorites	Newell	-	-
1957-S32	2435962.09	1957 May 3 1404	Aerobee Hi	-	NRL 44 (RV-N-13c)	0.000	NRL	SS	-	NRL/	Solar UV	Newell	-	-
1957-S40	2436008.08	1957 Jun 18 1400	Aerobee Hi	-	USAF 78	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1957-S44	2436015.09	1957 Jun 25 1407	Aerobee Hi	-	USAF 79	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	Newell	-	-
1957-S55	2436024.26	1957 Jul 4 1815:40	Aerobee Hi	-	NN3.08F	0.000	NRL	SS	-	NRL/Seddon	Ionos	Astronautics5708	WDCRF	-
1957-A61	2436024.76	1957 Jul 5 0617:56	Aerobee Hi	-	NN3.09F	0.000	NRL	SF	U	NRL/Seddon	Ionos	Astronautics5708	WDCRF	-
1957-S58	2436036.06	1957 Jul 16 1330	Aerobee	-	USAF 80	0.000	AFCRL	SS	-	AFCRL/?	Meteorites	SCA7	-	-
1957-S60	2436038.10	1957 Jul 18 1430	Aerobee	-	USAF 81	0.000	AFCRL	SF	U	AFCRL/?	Meteorites	SCA7	-	-
1957-S63	2436041.68	1957 Jul 22 0416:28	Aerobee	-	SM1.02	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-S66	2436043.73	1957 Jul 24 0529:50	Aerobee	-	SM1.03	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-S68	2436049.42	1957 Jul 29 2159	Aerobee Hi	-	NN3.13F	0.000	NRL	SS	-	NRL/LaGow	Aeron La	WDCRF	JGR63,757	-
1957-S74	2436057.15	1957 Aug 6 1530	Aerobee AJ10-34	-	USAF 82	0.000	AFCRL	SS	-	UCO/Rense	Solar UV	ApJ127,67	ApJ130,381/McAlliste	-
1957-M10	2436063.17	1957 Aug 12 1559:31	Aerobee	-	SM1.04	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-S285	2436069.50	1957 Aug 19	Aerobee	-	USAF 83	0.000	AFCRL	SS	-	AFCRL/	Aeron	NRL4276	-	[Or Sep 19?]
1957-S112	2436071.50	1957 Aug 21	Aerobee	-	USAF 84	0.000	AFCRL	SS	-	AFCRL/?	Aeron	WDCRF	-	[Or Sep 21]
1957-A83	2436070.60	1957 Aug 20 0229:51	Aerobee	-	SM1.05 (SC 40)	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-M11	2436075.60	1957 Aug 25 0229	Aerobee	-	SM2.05	0.000	SCEL	SS	-	SCEL/UMI/Bandeen	Aeron	WDCRF	-	-
1957-S96	2436076.09	1957 Aug 25 1408:05	Aerobee	-	SM2.06	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-S104	2436083.44	1957 Sep 1 2228	Aerobee Hi	-	AM4.001	0.000	AFCRL	SS	-	AFCRL/UMI/	Aeron	WDCRF	-	-
1957-M12	2436099.09	1957 Sep 17 1404	Aerobee RTV-N-10	-	NRL 21	0.000	NRL	SS	-	NRL/	Solar UV	WDCRF	IGY1,198	-
1957-S110	2436101.19	1957 Sep 19 1630	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/Marmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1957-S122	2436126.13	1957 Oct 14 1508	Aerobee	-	USAF 87	0.000	AFCRL	SS	-	AFCRL/?	Meteorites	Rigg	WDCRF	-
1957-U01	2436128.71	1957 Oct 17 0505	Aerobee	-	USAF 88	0.133	AFCRL	SS	-	AFCRL/CIT/Zwicky	Meteorites	EngSci1.58	SkyTel17-111	AWST571202-34
1957-S139	2436134.50	1957 Oct 23	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	WDCRF	-	-
1957-S145	2436136.50	1957 Oct 25	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/?	Ionos	WDCRF	-	-
1957-S162	2436150.17	1957 Nov 7 1605	Aerobee	-	USAF-89	0.000	AFCRL	SS	-	AFCRL/?	Ionos	AFCRL	-	-
1957-S164	2436151.12	1957 Nov 8 1457	Aerobee	-	USAF-90	0.000	AFCRL	SF	U	AFCRL/?	Test/Ionos	AFCRL	-	-
1957-S168	2436152.50	1957 Nov 10	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	WDCRF	-	-
1957-S171	2436162.19	1957 Nov 19 1629:56	Aerobee	-	Smoke Puff	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,396	-	-
1957-S172	2436169.04	1957 Nov 26 1255	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/Bedinger	Aeron	Ulrich	WDCRF	-
1957-S178	2436184.67	1957 Dec 12 0400	Aerobee	-	SM1.07	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1957-S179	2436187.38	1957 Dec 14 2100	Aerobee	-	SM1.08	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1958-S12	2436229.68	1958 Jan 26 0418:56	Aerobee Hi	-	NN3.03F	0.000	NRL	SS	-	NRL/Meredith	Auroral	WDCRF	SR1,721	-
1958-S13	2436230.75	1958 Jan 27 0604	Aerobee	-	SM1.09	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bartman	Aeron	WDCRF	-	-
1958-S15	2436231.28	1958 Jan 27 1849	Aerobee	-	SM2.10	0.000	SCEL	SS	-	SCEL/UMI/Stroud,Bar,Jone	Aeron	WDCRF	-	-
1958-S19	2436238.25	1958 Feb 3 1802:20	Aerobee Hi	-	NN3.10F	0.000	NRL	SS	-	NRL/Seddon	Test/Ionos	WDCRF	-	-
1958-S20	2436238.76	1958 Feb 4 0616:58	Aerobee Hi	-	NN3.11F	0.000	NRL	SS	-	NRL/Seddon	Ionos	WDCRF	-	-
1958-S25	2436253.22	1958 Feb 18 1721	Aerobee 100	-	NRL 51	0.000	NRL	SS	-	NRL/	Test/Imaging	WDCRF	-	-
1958-S31	2436256.59	1958 Feb 22 0202:26	Aerobee Hi	-	NN3.18F	0.000	NRL	SS	-	NRL/Meadows	Ionos,AuroralX	WDCRF	AnnalesGeo17,100	-
1958-S33	2436258.79	1958 Feb 24 0659:58	Aerobee Hi	-	NN3.14F	0.000	NRL	SS	-	NRL/LaGow	Aeron	WDCRF	-	-
1958-S41	2436278.70	1958 Mar 16 0454:15	Aerobee Hi	-	NN3.04	0.000	NRL	SS	-	NRL/Meredith	Auroral/Fields	WDCRF	SR1,721	-
1958-S38	2436281.55	1958 Mar 19 0112	Aerobee	-	USAF-93	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	PlanSpaSci1,161	-	-
1958-S43	2436283.50	1958 Mar 21	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/?	Ionos	WDCRF	-	-
1958-S44	2436284.78	1958 Mar 22 0641:17	Aerobee Hi	-	NN3.05	0.000	NRL	SS	-	NRL/Meredith	Auroral/Fields	WDCRF	SR1,721	-
1958-S46	2436286.25	1958 Mar 23 1807:08	Aerobee Hi	-	NN3.19F	0.000	NRL	SS	-	NRL/Meadows	Auroral/Aeron La	WDCRF	AnnalesGeo17,100	-
1958-S61	2436329.09	1958 May 5 1415	Aerobee Hi	-	NN3.22F	0.000	NRL	SS	-	NRL/	Solar UV	WDCRF	-	-
1958-S80	2436359.14	1958 Jun 4 1515	Aerobee Hi	-	-	0.000	AFCRL	SS	-	UCO/Rense,Violett	Solar EUV	WDCRF	-	-
1958-S92	2436388.20	1958 Jul 3 1652	Aerobee	-	AU3.07F	0.000	AFCRL	SS	-	UUT/	Ionos	IGY	AFCRL2	-
1958-S93	2436391.00	1958 Jul 6 1202:18	Aerobee	-	AU3.10F	0.000	AFCRL	SS	-	UUT/	Ionos	AFCRL2	FC	-
1958-S98	2436396.27	1958 Jul 11 1830:07	Aerobee	-	AU3.11F	0.000	AFCRL	SS	-	UUT/	Ionos	AFCRL2	-	-
1958-S158	2436428.50	1958 Aug 13	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1958-S163	2436431.16	1958 Aug 15 1545	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Test/Ionos	WDCRF	-	-
1958-S228	2436491.54	1958 Oct 15 0104:36	Aerobee Hi	-	AM4.012	0.000	AFCRL	SS	-	UMI/	Test/Aeron	WDCRF	-	-
1958-S236	2436499.20	1958 Oct 22 1647:18	Aerobee 300	-	AA10.01	0.000	AFCRL/BRL	SF	S2	AFCRL/OKSU/McCkacken	Meteorites	FC	Alway	-
1958-S238	2436502.31	1958 Oct 25 1928	Aerobee 300	-	AA10.02	0.000	AFCRL/BRL	SS	-	AFCRL/OKSU/McCracken	Meteorites	FC	Alway	-
1958-S242	2436508.33	1958 Oct 31 1959:14	Aerobee Hi	-	NN3.15F	0.000	NRL	SS	-	NRL/LaGow,Horowitz	Aeron	WDCRF	TN-D-670	-
1958-S247	2436511.18	1958 Nov 3 1620:05	Aerobee Hi	-	NN3.20F	0.000	NRL	SS	-	NRL/Meadows,Johnson	Aeron/Ionos	FC	AnnalesGeo17,100	-
1958-S257	2436523.79	1958 Nov 16 0656:53	Aerobee Hi	-	NN3.06F	0.000	NRL	SS	-	NRL/Meredith	Auroral/Fields	WDCRF	SR1,721	-
1958-S268	2436531.77	1958 Nov 24 0623:34	Aerobee Hi	-	NN3.21F	0.000	NRL	SS	-	NRL/Seddon	Aeron/Ionos	WDCRF	-	-
1958-S271	2436537.19	1958 Nov 29 1630:30	Aerobee Hi	-	NN3.16F	0.000	NRL	SS	-	NRL/Meredith	Auroral	WDCRF	-	-
1958-S274	2436538.28	1958 Nov 30 1836:36	Aerobee 300	-	ABM10.200	0.000	AFCRL/BRL	SS	-	BRL/UMI/Boggess	Test/Ionos	WDCRF/UM	-	-
1958-S276	2436539.32	1958 Dec 1 1934:40	Aerobee 300	-	NN10.001	0.000	NRL/BRL	SF	U	NRL/Seddon	Ionos	FC	WDC	-
1958-S278	2436541.28	1958 Dec 3 1838:44	Aerobee 300	-	NN10.002	0.000	NRL/BRL	SS	-	NRL/Seddon	Ionos	FC	WDC	-
1959-S14	2436605.11	1959 Feb 5 1445	Aerobee 150	-	AA3.100C	0.000	AFCRL	SS	-	AFCRL/	Meteorites	WDCRF	-	-
1959-S18	2436627.16	1959 Feb 27 1544	Aerobee	-	AA3.120C	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1959-S26	2436640.16	1959 Mar 12 1544	Aerobee Hi	-	AA3.121C	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	SR1,615	-
1959-S30	2436641.16	1959 Mar 13 1545:00	Aerobee Hi	-	NN3.24F	0.000	NRL	SS	-	NRL/Packer,Tousey	Solar UV/Solar EUV	WDCRF	SR1,594	-
1959-S39	2436658.13	1959 Mar 30 1501	Aerobee 150	-	AA3.140C	0.000	AFCRL	SS	-	UCO/Rense	Solar EUV	WDCRF	-	-
1959-S40	2436658.20	1959 Mar 30 1645	Aerobee 150	-	NRL 52	0.000	NRL	SS	-	NRL/Holmes,Johnson	Aeron	WDCRF	-	-
1959-S44	2436666.12	1959 Apr 7 1446	Aerobee 150	-	AA3.160C	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL2	-	-
1959-S48	2436674.12	1959 Apr 15 1446	Aerobee 150	-	AA3.180C	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1959-S53	2436679.55	1959 Apr 21 0105	Aerobee 150	-	AA3.181C	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1959-S61	2436693.57	1959 May 5 0145	Aerobee AJ10-34	-	AA2.141C	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1959-S69	2436700.99	1959 May 12 1139	Aerobee 150	-	AA3.200C	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1959-S75	2436710.97	1959 May 22 1115	Aerobee 150	-	AA3.201C	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1959-S84	2436730.19	1959 Jun 10 1640	Aerobee 150	-	AA3.280C	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1959-S94	2436742.11	1959 Jun 22 1432	Aerobee	-	AA1.260C	0.000	AFCRL	SS	-	AFCRL/	Solar IR	WDCRF	-	-
1959-S95	2436744.01	1959 Jun 24 1210	Aerobee 150	-	AA3.220C	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1959-S118	2436771.08	1959 Jul 21 1400	Aerobee Hi	-	NN3.23F	0.000	NRL	SS	-	NRL/Tousey,Purcell	Solar UV/XR Astron	WDCRF	JGR65,370	-
1959-S145	2436802.53	1959 Aug 22 0045	Aerobee 150	-	AA3.101C	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S156	2436809.28	1959 Aug 28 1845	Aerobee 150	-	AA3.122C	0.000	AFCRL	SS	-	AFCRL/Ulwick,Hinteregger	Ionos/Solar EUV	AFCRL2	SR1,304	-
1959-S168	2436823.30	1959 Sep 11 1912	Aerobee 150	-	NASA 04.08GI	0.000	GSFC	SS	-	GSFC/Jackson,Bordeau	Ionos	WDCRF	-	-
1959-S170	2436826.23	1959 Sep 14 1727	Aerobee 150	-	NASA 04.07GI	0.000	GSFC	SS	-	GSFC/Jackson,Bordeau	Ionos	WDCRF	TN-D-570	-
1959-S171	2436826.50	1959 Sep 15	Aerobee	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	WDCRF	-	-
1959-S176	2436829.28	1959 Sep 17 1837	Aerobee 150	-	NASA 04.02II	0.000	GSFC	SS	-	DRTE/Heikkila	Ionos	WDCRF	SR1,366	-
1959-S181	2436832.23	1959 Sep 20 1735	Aerobee 150	-	NASA 04.03II	0.000	GSFC	SF	U	DRTE/Heikkila	Ionos	WDCRF	-	-
1959-S183	2436833.50	1959 Sep 22	Aerobee 100	-	AA1.260C	0.000	AFCRL	SS	-	AFCRL/	Ionos?	JCM	-	-
1959-S206	2436852.00	1959 Oct 10 1200	Aerobee AJ10-34	-	AA2.102C	0.000	AFCRL	SF	S2	AFCRL/	Meteorites	WDCRF	-	-
1959-S216	2436862.10	1959 Oct 20 1425	Aerobee AJ10-34	-	AA2.240C	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1959-S223	2436867.24	1959 Oct 25 1744	Aerobee 300	-	AA10.184C	0.000	AFCRL	SS	-	UUT/Haycock	Ionos	AFCRL2	-	-
1959-S225	2436870.12	1959 Oct 28 1447	Aerobee 300	-	AA10.185C	0.000	AFCRL	SS	-	UUT/Haycock	Ionos	AFCRL2	-	-
1959-S237	2436878.81	1959 Nov 6 0725	Aerobee 150	-	NN2.78C	0.000	NRL	SS	-	NRL/Packer,Tousey	Aeron	WDCRF/SR2,1021	SR2,1021	-
1959-S236	2436879.19	1959 Nov 6 1636	Aerobee 300	-	AA10.187C	0.000	AFCRL	SS	-	UUT/Haycock	Ionos	AFCRL2	-	-
1959-S240	2436887.44	1959 Nov 14 2238	Aerobee 300	-	AA10.165C	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1959-S245	2436891.82	1959 Nov 19 0744	Aerobee 150	-	AA3.282C	0.000	AFCRL	SF	S2	AFCRL/Hutchinson	Ionos	WDCRF	-	-
1959-A192	2436895.27	1959 Nov 22 1835	Aerobee 300	-	AA10.186C	0.000	AFCRL	SF	U	UMI/Spencer	Ionos	WDCRF	-	-
1959-S256	2436902.92	1959 Nov 30 0958?	Aerobee	-	NRL 30	0.000	NRL	SS	-	NRL/Byram	UV Astron	WDCRF/SR1,599	SR1,599	-
1960-S10	2436947.50	1960 Jan 14	Aerobee 300	-	TATTLETALE PCC 1	0.000	AFCRL	SS	-	NSA/	Sigint Test?	JCM	-	-
1960-S15	2436953.26	1960 Jan 19 1818	Aerobee 150	-	AA3.124C	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	ApJ132,801	-
1960-S26	2436963.29	1960 Jan 29 1851	Aerobee 150	-	AA3.125C	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	ApJ132,801	-
1960-S35	2436977.53	1960 Feb 13 0043	Aerobee AJ10-34	-	AA2.143C	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1960-S36	2436980.50	1960 Feb 16	Aerobee 300	-	TATTLETALE PCC 2	0.000	AFCRL	SS	-	NSA/	Sigint Test?	JCM	-	-
1960-A48	2436981.37	1960 Feb 16 2048	Aerobee 150	-	NASA 04.01GT	0.000	GSFC	SF	U	GSFC/Medrow	Test	WDCRF	-	-
1960-S40	2436991.79	1960 Feb 27 0653	Aerobee Hi	-	AA4.360C	0.000	AFCRL	SS	-	JHU/Fastie	Aurora	AnnalesGeo17,109	WDCRF	-
1960-S52	2437009.50	1960 Mar 16	Aerobee 300	-	TATTLETALE PCC 3	0.000	AFCRL	SS	-	NSA/	Sigint Test?	JCM	-	-
1960-S53	2437010.39	1960 Mar 16 2125	Aerobee 300	-	NASA 06.01UI	0.000	GSFC	SS	-	UMI/Spencer	Ionos	WDCRF	JGR67,157	-
1960-S64	2437019.28	1960 Mar 25 1840	Aerobee 150A	-	NASA 04.12GT	0.000	GSFC	SS	-	GSFC/Medrow	Test/Meteorites	TN-D-1544	WDCRF	-
1960-S71	2437031.59	1960 Apr 7 0206	Aerobee 150	-	AA3.221	0.000	AFCRL	SS	-	AFCRL/Walker	Solar IR	WDCRF	-	-
1960-S76	2437044.09	1960 Apr 19 1415	Aerobee Hi	-	NN3.60	0.000	NRL	SS	-	NRL/Purcell,Tousey	Solar UV/Solar EUV	WDCRF	AnnalesGeo17,263	-
1960-S80	2437046.12	1960 Apr 21 1500	Aerobee 150	-	AA3.283C	0.000	AFCRL	SS	-	AFCRL/Hutchinson	Fields	WDCRF	-	-
1960-S82	2437048.41	1960 Apr 23 2145	Aerobee 150A	-	NASA 04.10GT	0.000	GSFC	SS	-	GSFC/Medrow	Test	WDCRF	-	-
1960-S84	2437051.68	1960 Apr 27 0418	Aerobee 150	-	NASA 04.04GG	0.000	GSFC	SS	-	GSFC/Kupperian	UV Astron	TM-X-55429	SP-4401	-
1960-S90	2437054.16	1960 Apr 29 1547	Aerobee 150A	-	NASA 04.09GA	0.000	GSFC	SS	-	GSFC/Horowitz	Aeronomy	TN-D-1851	WDCRF	-
1960-S103	2437079.19	1960 May 24 1640	Aerobee 150	-	AA3.183C	0.000	AFCRL	SS	-	AFCRL/Ulwick,Hinteregger	Ionos/Solar EUV	AFCRL2	-	-
1960-S108	2437081.67	1960 May 27 0405	Aerobee 150	-	NRL 59	0.000	NRL	SS	-	NRL/Chubb,Friedman	EUV Astron	WDCRF	ApJ138,617	-
1960-S109	2437081.73	1960 May 27 0530	Aerobee 150A	-	NASA 04.05GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	TM-X-55101	SP-4401	-
1960-S129	2437101.16	1960 Jun 15 1545	Aerobee 150	-	NC3.107	0.000	NRL	SS	-	NRL/Holmes,Hoffman	Aeron	WDCRF	-	-
1960-S130	2437101.46	1960 Jun 15 2256	Aerobee 300	-	NASA 06.02UI	0.000	GSFC	SS	-	UMI/Spencer	Ionos	WDCRF	JGR67,157	-
1960-S145	2437109.77	1960 Jun 24 0625	Aerobee 150A	-	NASA 04.06GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	-	-
1960-S149	2437113.05	1960 Jun 27 1315	Aerobee 150	-	NC3.108	0.000	NRL	SS	-	NRL/Hoffman,Holmes	Aeron	WDCRF	-	-
1960-S160	2437117.11	1960 Jul 1 1435	Aerobee 150	-	AA3.107	0.000	AFCRL	SS	-	AFCRL/Soberman	Meteorites	WDCRF	-	-
1960-A171	2437143.34	1960 Jul 27 2003	Aerobee 300	-	TATTLETALE PCC 4	0.000	AFCRL?	SF	U	NSA/HAC.	Sigint Test?	TN-D-3359	-	-
1960-S217	2437149.06	1960 Aug 2 1330	Aerobee 150	-	NN2.32	0.000	NRL	SS	-	NRL/Garrett,Detwiler	Ionos?	WDC	-	-
1960-S218	2437150.18	1960 Aug 3 1626	Aerobee 300A	-	NASA 06.03UI	0.000	GSFC	SS	-	UMI/Spencer	Ionos	FDC	JGR67,157	WDCRF
1960-S227	2437156.50	1960 Aug 10	Aerobee 300	-	TATTLETALE PCC 5	0.000	AFCRL	SS	-	NSA/	Sigint Test?	JCM	-	-
1960-S249	2437170.21	1960 Aug 23 1701	Aerobee 150A	-	NASA 04.16UE	0.000	GSFC	SS	-	NYU/Meredith	Cosmic rays	WDCRF	-	-
1960-S250	2437170.22	1960 Aug 23 1710	Aerobee 150	-	AA3.128	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	SR2,1036	-
1960-S259	2437177.50	1960 Aug 31	Aerobee 300	-	TATTLETALE PCC 6	0.000	AFCRL	SS	-	NSA/	Sigint Test?	JCM	-	-
1960-S271	2437193.08	1960 Sep 15 1401	Aerobee 100	-	AA1.126	0.000	AFCRL	SS	-	AFCRL/Stair,Leblanc	Solar UV	WDC	-	-
1960-M27	2437193.26	1960 Sep 15 1809	Aerobee 100	-	NASA 01.03GP	0.000	GSFC	SS	-	GSFC/Baumann	Remote sensing	WDCRF	TN-D-706	-
1960-M28	2437202.26	1960 Sep 24 1813	Aerobee 100	-	NASA 01.05GP	0.000	GSFC	SS	-	GSFC/Baumann	Remote sensing	WDCRF	TN-D-706	-
1960-S277	2437198.04	1960 Sep 20 1255	Aerobee 150	-	AA3.142	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1960-S289	2437205.42	1960 Sep 27 2210	Aerobee 150	-	AA3.102	0.000	AFCRL	SS	-	AFCRL/Yagoda,Silverman	Aeron	WDCRF	-	-
1960-S308	2437213.33	1960 Oct 5 1952	Aerobee 150	-	NASA 04.43GP	0.000	GSFC	SS	-	GSFC/Baumann	Remote sensing	WDCRF	TN-D-706	-
1960-S355	2437248.61	1960 Nov 10 0235	Aerobee 150	-	ND3.101	0.000	NRL	SS	-	NRL/Packer	Aeron	WDCRF	-	-
1960-S363	2437254.20	1960 Nov 15 1641	Aerobee 150A	-	NASA 04.14GA	0.000	GSFC	SS	-	GSFC/Taylor	Aeronomy	TN-D-1851	TN-D-1062	-
1960-S372	2437256.07	1960 Nov 17 1340	Aerobee 150	-	AA3.144	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1960-S377	2437260.86	1960 Nov 22 0842	Aerobee 150A	-	NASA 04.11GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	ApJ136,1	TM-X-50021	-
1960-S378	2437261.93	1960 Nov 23 1019	Aerobee 100	-	NASA 01.01GI	0.000	GSFC	SS	-	OKSU/GSFC/Cooper,Whipple	Ionos	WDCRF	-	-
1960-S382	2437266.24	1960 Nov 27 1748	Aerobee 100	-	NASA 01.02GI	0.000	GSFC	SS	-	OKSU/GSFC/Cooper,Whipple	Ionos	WDCRF	-	-
1960-S383	2437267.97	1960 Nov 29 1116	Aerobee 150	-	NB3.103	0.000	NRL	SS	-	NRL/Chubb,Friedman	UV Astron	WDCRF	ApJ138,617	-
1960-S391	2437268.71	1960 Nov 30 0501	Aerobee 150	-	AA3.284	0.000	AFCRL	SS	-	AFCRL/Hutchinson	Ionos	WDCRF	-	-
1961-S28	2437330.47	1961 Jan 30 2320	Aerobee 150	-	AA3.370	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	WDCRF	-	-
1961-S36	2437336.08	1961 Feb 5 1348	Aerobee 150A	-	NASA 04.38NP	0.000	GSFC	SS	-	LERC/Gold	Tech	WDCRF	-	-
1961-S52	2437348.29	1961 Feb 17 1904	Aerobee 150	-	AA3.129	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1961-S74	2437367.20	1961 Mar 8 1653	Aerobee 300	-	AA10.192	0.000	AFCRL	SS	-	AFCRL/Ulwick,Hinteregger	Ionos	AFCRL2	-	-
1961-S92	2437385.20	1961 Mar 26 1654	Aerobee 300A	-	NASA 06.04UI	0.000	GSFC	SS	-	UMI/Brace	Ionos/Gamma Astron	WDCRF	JGR67,157	[Or 1626/UM doc]
1961-M08	2437389.62	1961 Mar 31 0250	Aerobee 150A	-	NASA 04.34GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	-	-
1961-S110	2437404.22	1961 Apr 14 1715	Aerobee 150A	-	NASA 04.19GT	0.000	GSFC	SS	-	GSFC/Russell	Test	WDCRF	-	-
1961-S111	2437407.69	1961 Apr 18 0440	Aerobee 150	-	NB3.104	0.000	NRL	SS	-	NRL/Chubb,Friedman	UV Astron	WDCRF	-	-
1961-S124	2437411.00	1961 Apr 21 1200	Aerobee 150A	-	NASA 04.39NP	0.000	GSFC	SS	-	LERC/Gold	Tech	WDCRF	-	-
1961-S144	2437436.16	1961 May 16 1545	Aerobee 150	-	AA3.145	0.000	AFCRL	SS	-	AFCRL/Jursa	Solar UV	WDCRF	-	-
1961-S145	2437436.21	1961 May 16 1700	Aerobee 150	-	AA3.127	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1961-M15	2437437.31	1961 May 17 1922	Aerobee 100	-	NASA 01.04GP	0.000	GSFC	SS	-	GSFC/Evans	Remote sensing	TN-D-1449	WDCRF	-
1961-A127	2437439.25	1961 May 19 1803	Aerobee 100	-	NASA 01.06GP	0.000	GSFC	SS	-	GSFC/Evans	Remote sensing	TN-D-1449	WDCRF	-
1961-S158	2437444.50	1961 May 25	Aerobee 150	-	-	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1961-S167	2437457.02	1961 Jun 6 1231	Aerobee 150	-	AA3.108	0.000	AFCRL	SS	-	AFCRL/Soberman	Meteorites	WDCRF	AFCRL-1049	-
1961-S181	2437467.81	1961 Jun 17 0729	Aerobee 150	-	ND3.112	0.000	NRL	SS	-	NRL/Packer	Aeron	WDCRF	-	-
1961-S184	2437472.11	1961 Jun 21 1445	Aerobee 150	-	NE3.102	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	SR3,772	-
1961-S189	2437477.14	1961 Jun 26 1515	Aerobee 150A	-	NASA 04.20GT	0.000	GSFC	SS	-	GSFC/Russell,Dunkelman	Test	WDCRF	TN-D-2314	-
1961-S242	2437523.96	1961 Aug 12 1057	Aerobee 150A	-	NASA 04.42NP	0.000	GSFC	SS	-	LERC/Plohr	Tech	WDCRF	-	-
1961-S244	2437527.22	1961 Aug 15 1721	Aerobee 150	-	AA3.130	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1961-S253	2437535.21	1961 Aug 23 1702	Aerobee 150	-	-	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Aeron/Solar EUV	WDCRF	SR3,745	-
1961-S258	2437541.11	1961 Aug 29 1435	Aerobee 150	-	NE3.110	0.000	NRL	SS	-	NRL/Garrett,Purcell	Solar UV	WDCRF	SR3,781/NRL-Rpt7788	-
1961-M26	2437566.27	1961 Sep 23 1827	Aerobee 100	-	NASA 01.08GA	0.000	GSFC	SS	-	GSFC/Martin,Derdeyn	Aeronomy	WDCRF	-	-
1961-M27	2437570.02	1961 Sep 27 1230	Aerobee 150	-	AA2.502	0.000	AFCRL	SS	-	AFCRL/Ashenfelter	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S316	2437573.10	1961 Sep 30 1430	Aerobee 150	-	NASA 04.25US	0.000	GSFC	SS	-	GSFC/Behring	Solar X	TN-D-1466	TN-D-2303	-
1961-M28	2437573.36	1961 Sep 30 2042	Aerobee 100	-	NASA 01.09GA	0.000	GSFC	SS	-	GSFC/Martin,Jepsen	Aeronomy	WDCRF	-	-
1961-S331	2437585.06	1961 Oct 12 1321	Aerobee 150	-	AA3.146	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1961-S332	2437586.50	1961 Oct 14	Aerobee 150	-	[Spurious?]	0.000	AFCRL	SS	-	ASE/Giacconi,Salisbury	XR Astron	WDCRF	AFCRL	-
1961-M30	2437588.11	1961 Oct 15 1433	Aerobee 100	-	NASA 01.10GA	0.000	GSFC	SS	-	GSFC/Martin,Derdeyn	Aeronomy	WDCRF	-	-
1961-M31	2437590.34	1961 Oct 17 2011	Aerobee 100	-	NASA 01.07GA	0.000	GSFC	SS	-	GSFC/Martin,Derdeyn	Aeronomy	WDCRF	-	-
1961-S336	2437591.06	1961 Oct 18 1325	Aerobee 150A	-	NASA 04.40NP	0.000	GSFC	SS	-	LERC/Regetz	Tech	WDCRF	-	-
1961-S350	2437597.79	1961 Oct 25 0659	Aerobee 150	-	AB3.351	0.000	AFCRL	SS	-	ASE/Giacconi,Salisbury	XR Astron	Hirsh	-	-
1961-S364	2437604.62	1961 Nov 1 0300	Aerobee 150	-	ND3.122	0.000	NRL	SS	-	NRL/Packer	Aeron	WDCRF	-	-
1961-M32	2437606.23	1961 Nov 2 1724	Aerobee 100	-	NASA 01.11GA	0.000	GSFC	SS	-	GSFC/Martin	Aeronomy	WDCRF	-	-
1961-M33	2437609.34	1961 Nov 5 2011	Aerobee 100	-	NASA 01.12GA	0.000	GSFC	SS	-	GSFC/Martin	Aeronomy	WDCRF	-	-
1961-S399	2437634.22	1961 Nov 30 1710	Aerobee 150	-	NE3.123	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	-	-
1961-S413	2437641.47	1961 Dec 7 2315	Aerobee 150	-	AB3.344	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron/Ionos	WDCRF	-	-
1961-S422	2437647.00	1961 Dec 13 1200	Aerobee 150	-	AB3.110	0.000	AFCRL	SS	-	AFCRL/Soberman	Test/Meteorites	WDCRF	-	-
1961-S428	2437649.21	1961 Dec 15 1700	Aerobee 150	-	AB3.140	0.000	AFCRL	SS	-	AFCRL/Jursa	Solar UV	WDCRF	-	-
1961-S434	2437655.68	1961 Dec 22 0424	Aerobee 300A	-	NASA 06.05UI	0.000	GSFC	SS	-	UMI/Brace	Ionos	WDCRF	-	-
1962-S13	2437678.18	1962 Jan 13 1615	Aerobee 150A	-	NASA 04.68GT	0.000	GSFC	SS	-	GSFC/Russell	Test	WDCRF	TN-D-2314	-
1962-S15	2437680.50	1962 Jan 16	Aerobee 150	-	-	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1962-A18	2437702.69	1962 Feb 7 0438	Aerobee 150A	-	NASA 04.35GG	0.000	GSFC	SF	U	GSFC/Stecher	UV Astron	WDCRF	-	-
1962-S42	2437713.32	1962 Feb 17 1943	Aerobee 150	-	NASA 04.41NP	0.000	GSFC	SS	-	LERC/Dillon	Tech	WDCRF	-	-
1962-S63	2437730.06	1962 Mar 6 1330	Aerobee 150	-	AB3.150	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1962-M02	2437743.15	1962 Mar 19 1530	Aerobee 150A	-	NASA 04.18GA	0.000	GSFC	SF	U	UMI/Spencer,Brace	Aeronomy	WDCRF	-	-
1962-S102	2437772.22	1962 Apr 17 1720	Aerobee 150	-	NA3.114F?	0.000	NRL	SS	-	NRL/Holmes,Hoffman	Aeron	WDCRF	-	-
1962-S119	2437786.30	1962 May 1 1918	Aerobee 100	-	AA1.193	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos?	WDCRF	-	-
1962-S120	2437787.45	1962 May 2 2253	Aerobee 150	-	AA3.361	0.000	AFCRL	SS	-	AFCRL/Silverman	Aeron	WDCRF	-	-
1962-S127	2437793.13	1962 May 8 1505	Aerobee 150	-	NASA 04.46NP	0.000	GSFC	SS	-	JPL/Brown	Tech	WDCRF	-	-
1962-S142	2437810.03	1962 May 25 1243	Aerobee 150A	-	NASA 04.48GT	0.000	GSFC	SS	-	GSFC/GCA/Pressly,Smith	Test/Ionos	CR-68050	GCA-63-23N	-
1962-S167	2437821.03	1962 Jun 5 1245	Aerobee 150	-	AB3.133	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Aeron/Solar EUV	WDCRF	-	-
1962-S183	2437828.40	1962 Jun 12 2130	Aerobee 150	-	AB3.134	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1962-S194	2437834.79	1962 Jun 19 0659	Aerobee 150	-	AB3.352	0.000	AFCRL	SS	-	ASE/Giacconi	XR Astron	Hirsh	-	-
1962-S196	2437836.06	1962 Jun 20 1329	Aerobee 150A	-	NASA 04.26NP	0.000	GSFC	SS	-	LERC/Flagge	Tech	WDCRF	-	-
1962-S216	2437844.70	1962 Jun 29 0455	Aerobee 150A	-	NASA 04.71UA/UP	0.000	GSFC	SS	-	JHU/Fastie,Depew	Aeronomy	SR4,304	WDCRF	SR4 has Jun 30
1962-S210	2437845.38	1962 Jun 29 2100	Aerobee 150A	-	NASA 04.72UP	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	SR4,304	WDCRF	-
1962-S237	2437856.12	1962 Jul 10 1500	Aerobee 150	-	NASA 04.47NP	0.000	GSFC	SS	-	JPL/Brown	Tech	WDCRF	-	-
1962-S256	2437870.01	1962 Jul 24 1209:00	Aerobee 150A	-	-	0.000	AFCRL	SU	-	AFCRL/?	Aeron	WDCRF	-	-
1962-S258	2437870.40	1962 Jul 24 2141	Aerobee 150	-	NASA 04.23US	0.000	GSFC	SS	-	UCO/Lindsay,Sheldon	Solar UV	WDCRF	-	-
1962-S284	2437885.20	1962 Aug 8 1655	Aerobee 150	-	NASA 04.60GT	0.000	GSFC	SS	-	GSFC/Russell	Test	WDCRF	-	-
1962-S306	2437899.15	1962 Aug 22 1530	Aerobee 150	-	NE3.128	0.000	NRL	SS	-	NRL/Austin,Purcell	Solar EUV/XR	WDCRF	SR4,703	-
1962-M22	2437914.10	1962 Sep 6 1430	Aerobee 100	-	NASA 01.13NA	0.000	GSFC	SS	-	JPL/Barth	Aeronomy	WDCRF	-	-
1962-S331	2437919.48	1962 Sep 11 2324	Aerobee 150	-	AC3.322	0.000	AFCRL	SS	-	AFCRL/Silverman	Aeron	WDCRF	-	-
1962-S342	2437929.60	1962 Sep 22 0224	Aerobee 150A	-	NASA 04.36GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1962-S348	2437935.25	1962 Sep 27 1800	Aerobee 150	-	AB3.246	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	WDCRF	-	-
1962-S377	2437937.75	1962 Sep 30 0602	Aerobee 150A	-	NASA 04.69CG	0.000	GSFC	SS	-	LPARL/Fisher	XR Astron	WDCRF	Nature204,982	-
1962-S388	2437950.79	1962 Oct 13 0659	Aerobee 150	-	AC3.353	0.000	AFCRL	SS	-	ASE/	XR Astron	Hirsh	-	-
1962-S424	2437963.48	1962 Oct 25 2328	Aerobee 150	-	AC3.138	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	WDCRF	-	-
1962-S440	2437967.58	1962 Oct 30 0150	Aerobee 150A	-	NASA 04.54UG	0.000	GSFC	SS	-	UWI/Code	UV Astron	WDCRF	MR621105-11	-
1962-S468	2437975.32	1962 Nov 6 1945	Aerobee 150	-	AC3.148	0.000	AFCRL	SS	-	AFCRL/Jursa	Solar EUV	WDCRF	-	-
1962-S474	2437979.54	1962 Nov 11 0103:00	Aerobee 150	-	AC3.452	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1962-S476	2437982.44	1962 Nov 13 2230:00	Aerobee 150	-	AC3.453	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S479	2437984.56	1962 Nov 16 0126:00	Aerobee 150	-	AC3.449 (SF6)	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-A195	2437984.68	1962 Nov 16 0422	Aerobee 150A	-	NASA 04.79II	0.000	GSFC	SF	U	CSIMP/Cartwright	Ionos	WDCRF	-	-
1962-S481	2437986.71	1962 Nov 18 0457	Aerobee 150A	-	NASA 04.27NP	0.000	GSFC	SS	-	LERC/Corpas	Tech	WDCRF	-	-
1962-A202	2437989.20	1962 Nov 20 1655	Aerobee 100	-	NASA 01.14NA	0.000	GSFC	SF	U	JPL/Barth	Aeronomy	WDCRF	-	-
1962-S484	2437989.40	1962 Nov 20 2141:30	Aerobee 300A	-	NASA 06.06GA	0.000	GSFC	SS	-	UMI/GSFC/Brace	Aeronomy	WDCRF	-	-
1962-S495	2437996.25	1962 Nov 27 1800	Aerobee 150	-	NASA 04.21US	0.000	GSFC	SS	-	HCO/Lindsay,Goldberg	Solar EUV	WDCRF	-	-
1962-S546	2438006.55	1962 Dec 8 0108:00	Aerobee 150	-	AC3.450	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-M40	2438009.57	1962 Dec 11 0136	Aerobee 150A	-	NASA 04.80II	0.000	GSFC	SF	U	CSIMP/Cartwright	Ionos	WI-PR621211	MR621217-13	-
1962-A223	2438012.22	1962 Dec 13 1723	Aerobee 150A	-	NASA 04.74UA	0.000	GSFC	SF	U	JHU/Fastie	Aeronomy	WDCRF	TR-R-226	-
1962-S567	2438014.23	1962 Dec 15 1730:00	Aerobee 150	-	AC3.451 (SF6)	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Ionos	WDCRF	SR4,389	-
1962-S570	2438017.32	1962 Dec 18 1945	Aerobee 150	-	AC3.139	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1963-A16	2438059.19	1963 Jan 29 1627	Aerobee 150A	-	NASA 04.73UA	0.000	GSFC	SF	U	JHU/Fastie	Aeronomy	WDCRF	-	-
1963-S51	2438074.52	1963 Feb 14 0030	Aerobee 150	-	AB3.345	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	WDCRF	-	-
1963-S53	2438076.19	1963 Feb 15 1634	Aerobee 150	-	NC3.134	0.000	NRL	SS	-	NRL/Johnson,Young	Aeron	WDCRF	SR5,756	-
1963-S55	2438079.24	1963 Feb 18 1743	Aerobee 150	-	NE3.140	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	-	-
1963-S65	2438086.50	1963 Feb 26	Aerobee 150	-	-	0.000	AFCRL	SF	U	AFCRL/Narcisi	Aeron	WDCRF	-	-
1963-S81	2438095.44	1963 Mar 6 2230	Aerobee 150	-	AC3.372	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	WDCRF	-	-
1963-S101	2438104.60	1963 Mar 16 0219	Aerobee 150A	-	NASA 04.70CG	0.000	GSFC	SS	-	LPARL/Fisher	XR Astron	WDCRF	-	-
1963-S106	2438108.25	1963 Mar 19 1800	Aerobee 150	-	AC3.149	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1963-S116	2438116.51	1963 Mar 28 0015	Aerobee 150	-	NASA 04.30GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	-	-
1963-S132	2438123.20	1963 Apr 3 1646	Aerobee 150A	-	NASA 04.58UI	0.000	GSFC	SS	-	STAN/Rorden	Ionos	WDCRF	-	-
1963-S134	2438124.12	1963 Apr 4 1500	Aerobee 150	-	NB3.118	0.000	NRL	SS	-	NRL/Blake	Solar X	WDCRF	ApJ142,1	-
1963-S147	2438131.73	1963 Apr 12 0530	Aerobee 150A	-	NASA 04.96II	0.000	GSFC	SS	-	CSIMP/Cartwright	Ionos	WDCRF	-	-
1963-S148	2438132.08	1963 Apr 12 1400	Aerobee 150	-	KP3.1	0.000	KPNO	SF	U	KPNO/Wallace	Aeron	WDC	KPNO	-
1963-S163	2438138.38	1963 Apr 18 2100:14	Aerobee 300A	-	NASA 06.07GA	0.000	GSFC	SS	-	UMI/Brace,Carignan	Aeronomy	WDCRF	-	-
1963-S170	2438143.37	1963 Apr 23 2048	Aerobee 150A	-	NASA 04.44GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	WDCRF	-	-
1963-S185	2438149.67	1963 Apr 30 0400	Aerobee 150	-	NB3.130	0.000	NRL	SS	-	NRL/Bowyer,Byram	UV Astron/XR Astron	WDCRF	ApJ139,1135	-
1963-S188	2438152.21	1963 May 2 1703	Aerobee 150	-	AC3.510	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	WDCRF	ApJ140,319	-
1963-S190	2438157.38	1963 May 7 2111	Aerobee 150A	-	NASA 04.98UA	0.000	GSFC	SS	-	JHU/Fastie?	Aeronomy	JGR68,6208	SR4,304	-
1963-S194	2438159.25	1963 May 9 1802	Aerobee 150A	-	NASA 04.97II	0.000	GSFC	SS	-	CSIMP/Cartwright	Ionos	WDCRF	-	-
1963-S197	2438160.11	1963 May 10 1445	Aerobee 150	-	NE3.140R	0.000	NRL	SS	-	NRL/Garrett,Austin	Solar EUV	WDCRF	-	-
1963-S201	2438164.16	1963 May 14 1545	Aerobee 150	-	NASA 04.66NP	0.000	GSFC	SS	-	LERC/Kinard	Tech	WDCRF	-	-
1963-S224	2438170.73	1963 May 21 0530	Aerobee 150	-	NB3.119	0.000	NRL	SS	-	NRL/Byram	FUV Astron	WDCRF	ApJ139,1135	-
1963-S264	2438187.10	1963 Jun 6 1430	Aerobee 150	-	NC3.115F	0.000	NRL	SS	-	NRL/Hoffman	Aeron	WDCRF	SR5,755	-
1963-S268	2438191.72	1963 Jun 11 0515	Aerobee 150	-	AC3.354	0.000	AFCRL	SS	-	ASE/AFCRL/Salisbury	Solar X	WDCRF	Hirsh	-
1963-S278	2438198.25	1963 Jun 17 1800	Aerobee 150	-	NASA 04.87GT	0.000	GSFC	SS	-	GSFC/Russell	Test	WDCRF	-	-
1963-S285	2438200.23	1963 Jun 19 1733	Aerobee 150	-	NASA 04.28NP	0.000	GSFC	SS	-	LERC/Corpas	Tech	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S289	2438201.10	1963 Jun 20 1425	Aerobee 150	-	NASA 04.61AS	0.000	GSFC	SS	-	NRL/Packer	Test	WDCRF	-	-
1963-S300	2438206.06	1963 Jun 25 1320	Aerobee 150	-	KP3.2	0.000	KPNO	SS	-	KPNO/Wallace	Aeron/Auroral	WDCRF	JGR69,471	-
1963-S308	2438209.10	1963 Jun 28 1430	Aerobee 150	-	NASA 04.62AS	0.000	GSFC	SS	-	NRL/Packer	Solar/Solar EUV	WDCRF	-	-
1963-S311	2438210.20	1963 Jun 29 1646	Aerobee 150	-	AC3.607	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	WDCRF	-	-
1963-S327	2438213.88	1963 Jul 3 0900	Aerobee 150	-	AB3.247	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Test/Ionos	WDCRF	-	-
1963-S334	2438220.62	1963 Jul 10 0246	Aerobee 150A	-	NASA 04.59UI	0.000	GSFC	SS	-	STAN/Rorden	Ionos	WDCRF	-	-
1963-S335	2438221.21	1963 Jul 10 1702	Aerobee 150	-	AC3.511	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	WDCRF	-	-
1963-S343	2438229.73	1963 Jul 19 0530	Aerobee 150A	-	NASA 04.37GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1963-S345	2438231.14	1963 Jul 20 1518	Aerobee 150	-	NASA 04.77GS	0.000	GSFC	SS	-	GSFC/Wolff,Lindsay	Solar UV/Eclipse	WDCRF	-	-
1963-M37	2438231.38	1963 Jul 20 2106	Aerobee 150	-	NASA 04.75UA	0.000	GSFC	SF	U	JHU/Fastie	Aeronomy/Eclipse	WDCRF	-	-
1963-S350	2438231.41	1963 Jul 20 2154:45	Aerobee 300A	-	NASA 06.08GA	0.000	GSFC	SS	-	UMI/Brace	Aeronomy/Eclipse	WDCRF	-	-
1963-S352	2438233.75	1963 Jul 23 0600	Aerobee 150A	-	NASA 04.29GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	TM-X-56430	-
1963-S367	2438236.09	1963 Jul 25 1415	Aerobee 150	-	NB3.124	0.000	NRL	SS	-	NRL/Blake	Solar X	WDCRF/ApJ	ApJ142,1	-
1963-S373	2438242.84	1963 Aug 1 0806	Aerobee 150	-	NC3.?	0.000	NRL	SS	-	NRL/Holmes,Johnson	Aeron	WDCRF	SR5,756	-
1963-S421	2438276.44	1963 Sep 3 2236	Aerobee 150	-	AD3.374	0.000	AFCRL	SS	-	AFCRL/Narcisi,Cohen	Aeron	WDCRF	-	-
1963-S429	2438277.05	1963 Sep 4 1311	Aerobee 150	-	NASA 04.91GE	0.000	GSFC	SS	-	GSFC/Fichtel	Cosmic rays	WDCRF	-	-
1963-S433	2438279.40	1963 Sep 6 2130	Aerobee 150	-	NASA 04.22US	0.000	GSFC	SS	-	HCO/Lindsay,Goldberg	Solar	WDCRF	-	-
1963-S439	2438284.10	1963 Sep 11 1424	Aerobee 150A	-	NASA 04.32NP	0.000	GSFC	SS	-	LERC/Corpas	Tech	WDCRF	-	-
1963-S447	2438293.16	1963 Sep 20 1545	Aerobee 150	-	NE3.151	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	-	-
1963-S457	2438297.80	1963 Sep 25 0709	Aerobee 150A	-	NASA 04.65GI	0.000	GSFC	SS	-	GSFC/RRL/Hirao	Ionos	WDCRF	-	-
1963-S464	2438299.27	1963 Sep 26 1830	Aerobee 150	-	AC3.151	0.000	AFCRL	SS	-	AFCRL/Jursa	Aeron	WDCRF	-	-
1963-S467	2438301.11	1963 Sep 28 1443	Aerobee 150A	-	NASA 04.64GI	0.000	GSFC	SS	-	GSFC/RRL/Hirao	Ionos	WDCRF	-	-
1963-S474	2438304.21	1963 Oct 1 1700	Aerobee 150	-	NASA 04.78GS	0.000	GSFC	SS	-	GSFC/Hallam	Solar	WDCRF	-	-
1963-A144	2438312.94	1963 Oct 10 1033	Aerobee 150	-	NASA 04.31GG	0.000	GSFC	SF	U	GSFC/Boggess	UV Astron	WDCRF	-	-
1963-S493	2438318.17	1963 Oct 15 1605	Aerobee 150	-	NASA 04.33GS	0.000	GSFC	SS	-	GSFC/ASE/Muney,Giacconi	Solar X	WDCRF	-	-
1963-S499	2438320.20	1963 Oct 17 1650	Aerobee 150A	-	NASA 04.93II	0.000	GSFC	SS	-	CNET/Storey	Ionos	WDCRF	-	-
1963-S633	2438330.64	1963 Oct 28 0315	Aerobee 150	-	HITAB-TSRA Test	0.000	NOTS	SS	-	NOTS/	IR Background	AFETR6069	-	-
1963-S527	2438334.20	1963 Oct 31 1650	Aerobee 150A	-	NASA 04.94II	0.000	GSFC	SS	-	CNET/Storey	Ionos	TM-X-55494	-	-
1963-S539	2438338.13	1963 Nov 4 1510	Aerobee 150	-	KP3.3	0.000	KPNO	SS	-	KPNO/Wallace	Aeron	WDC	-	-
1963-S548	2438346.29	1963 Nov 12 1858	Aerobee 150A	-	NASA 04.76UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	WDCRF	PlanSpaSci12,1021	-
1963-S551	2438347.46	1963 Nov 13 2300	Aerobee 150	-	AD3.324	0.000	AFCRL	SS	-	AFCRL/Silverman	Aeron	WDCRF	-	-
1963-S558	2438351.26	1963 Nov 17 1815	Aerobee 150A	-	NASA 04.85NA	0.000	GSFC	SS	-	JPL/Barth	Aeronomy	WDCRF	ApplOpt6,373	-
1963-S572	2438361.24	1963 Nov 27 1750	Aerobee 150	-	NE3.153	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	-	-
1963-S585	2438368.50	1963 Dec 5	Aerobee 150	-	-	0.000	AFCRL	SS	-	AFCRL/Jursa	Solar UV	WDCRF	-	-
1963-S597	2438376.20	1963 Dec 12 1650	Aerobee 150	-	AD3.513	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1964-S57	2438423.29	1964 Jan 28 1900	Aerobee 150	-	NASA 04.88GT	0.000	GSFC	SS	-	GSFC/Russell	Test	WDCRF	TM-X-1279	-
1964-S59	2438423.63	1964 Jan 29 0309	Aerobee 300A	-	NASA 06.09GA	0.000	GSFC	SS	-	GSFC/UMI/Brace,Carignan	Aeronomy	WDCRF	-	-
1964-S82	2438434.67	1964 Feb 9 0412	Aerobee 150	-	AC3.603	0.000	AFCRL	SS	-	UUT/Baker,Ulwick	Ionos/Auroral	AFCRL	AnnalesGeo24,285	-
1964-S102	2438442.92	1964 Feb 17 1000	Aerobee 150	-	ND3.143	0.000	NRL	SS	-	NRL/Gulledge,Koomen	Aeron	WDCRF	-	-
1964-S120	2438452.39	1964 Feb 26 2118	Aerobee 150	-	NASA 04.124UA	0.000	GSFC	SF	U	JHU/Fastie,Dieke	Aeronomy	FC	JGR70,2613	-
1964-S155	2438471.31	1964 Mar 16 1929	Aerobee 150	-	HITAB-BIRA-1	0.000	NOTS	SS	-	NOTS/Richey	IR/UV Background	WDC	-	-
1964-S177	2438485.29	1964 Mar 30 1900	Aerobee 150	-	AD3.514	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	ApJ142,13	-
1964-S182	2438487.35	1964 Apr 1 2023?	Aerobee 150	-	HITAB-TSRA-2	0.000	NOTS	SS	-	NOTS/	IR Background	WDCRF	-	-
1964-S188	2438488.66	1964 Apr 3 0348	Aerobee 150	-	NASA 04.15GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	TM-X-1279	-
1964-S192	2438493.09	1964 Apr 7 1413	Aerobee 150	-	KP3.4	0.000	KPNO	SS	-	KPNO/Wallace	Aeron	PlanSpaceSci14,677	JGR72,69	-
1964-M09	2438495.69	1964 Apr 10 0431	Aerobee 150	-	NASA 04.81GG	0.000	GSFC	SF	U	GSFC/Boggess	UV Astron	WDCRF	TM-X-1279	-
1964-A54	2438500.27	1964 Apr 14 1830	Aerobee 150	-	NASA 04.86NA	0.000	GSFC	SF	U	JPL/Barth	Aeronomy	WDCRF	TM-X-1279	-
1964-A57	2438507.18	1964 Apr 21 1618	Aerobee 150	-	NASA 04.113GA-GI	0.000	GSFC	SF	U	GSFC/LUX/Aiken,Berg	Meteorites/Ionos/Solar X	WDCRF	-	-
1964-S232	2438522.17	1964 May 6 1600	Aerobee 150	-	NE3.154	0.000	NRL	SS	-	NRL/Purcell,Austin	Solar EUV	WDCRF	-	-
1964-S267	2438542.69	1964 May 27 0430	Aerobee 150	-	AD3.355	0.000	AFCRL	SS	-	ASE/AFCRL/Salisbury	Test/XR Astron	WDCRF	-	-
1964-S268	2438544.21	1964 May 28 1708?	Aerobee 150	-	HITAB-TSRA-1	0.000	NOTS	SS	-	NOTS/	IR Background	WDCRF	-	-
1964-S288	2438557.03	1964 Jun 10 1244:59	Aerobee 150	-	NASA 04.67NP	0.000	GSFC	SS	-	LERC/Kinard	Tech/Meteoroid	TN-D-4530	WDCRF	-
1964-S296	2438562.88	1964 Jun 16 0900	Aerobee 150	-	NB3.147	0.000	NRL	SS	-	NRL/Bowyer,Byram	UV Astron/XR Astron	WDCRF	Sci147,394	-
1964-S303	2438566.07	1964 Jun 19 1346	Aerobee 150	-	KP3.6	0.000	KPNO	SS	-	KPNO/Hunten	Aeron	WDC	JGR72,69	-
1964-S329	2438584.45	1964 Jul 7 2243	Aerobee 150	-	NB3.164	0.000	NRL	SS	-	NRL/Bowyer,Byram	XR Astron	WDCRF	-	-
1964-S362	2438593.85	1964 Jul 17 0823?	Aerobee 150	-	HITAB-TIRA-2	0.000	NOTS	SS	-	NOTS/	Test/IR Background	WDCRF	-	-
1964-S379	2438600.28	1964 Jul 23 1843	Aerobee 150	-	NASA 04.107GE	0.000	GSFC	SS	-	GSFC/Fichtel,Guss	Cosmic rays	WDCRF	-	-
1964-S380	2438602.23	1964 Jul 25 1735	Aerobee 150	-	NASA 04.108GE	0.000	GSFC	SS	-	GSFC/Fichtel,Guss	Cosmic rays	WDCRF	-	-
1964-S386	2438605.38	1964 Jul 28 2114	Aerobee 300	-	NASA 06.10GA	0.000	GSFC	SS	-	GSFC/UMI/Brace,Carignan	Aeronomy	WDCRF	-	-
1964-S419	2438618.94	1964 Aug 11 1030	Aerobee 150	-	NASA 04.82GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	-	-
1964-S441	2438629.93	1964 Aug 22 1015	Aerobee 150	-	NASA 04.126GG	0.000	GSFC	SS	-	GSFC/Evans,Boggess	UV Astron	AJ70,321	WDCRF	-
1964-S447	2438636.73	1964 Aug 29 0530	Aerobee 150	-	NASA 04.122GG	0.000	GSFC	SS	-	ASE/MIT/Giacconi,Oda	XR Astron	ASE-2017	-	-
1964-S457	2438640.63	1964 Sep 2 0308	Aerobee 150A	-	NASA 04.55UG	0.000	GSFC	SS	-	UWI/Code,Bless	UV Astron	WDCRF	-	-
1964-S468	2438653.90	1964 Sep 15 0935	Aerobee 150	-	KP3.5	0.000	KPNO	SS	-	KPNO/Wolstencroft	IR Astron	WDC	-	-
1964-S473	2438657.22	1964 Sep 18 1717	Aerobee 150A	-	NASA 04.115NA	0.000	GSFC	SS	-	JPL/Barth	Aeronomy	WDCRF	-	-
1964-S488	2438665.00	1964 Sep 26 1204	Aerobee 150A	-	NASA 04.13GP-GT	0.000	GSFC	SS	-	GSFC/Busse	Test	WDCRF	-	-
1964-S500	2438670.61	1964 Oct 2 0235	Aerobee 150	-	NASA 04.120CG	0.000	GSFC	SS	-	LPARL/Fisher	XR Astron	WDCRF	ApJ143,203	-
1964-S520	2438682.50	1964 Oct 14	Aerobee 150A	-	HITAB-BIRA-2	0.000	NOTS	SS	-	NOTS/	IR Background	WDCRF	-	-
1964-S539	2438695.54	1964 Oct 27 0058	Aerobee 150	-	NASA 04.123CG	0.000	GSFC	SS	-	ASE/MIT/Giacconi,Oda	XR Astron	ASE-2017	-	-
1964-S552	2438699.31	1964 Oct 30 1930	Aerobee 150	-	NASA 04.116GS	0.000	GSFC	SS	-	GSFC/Muney	Solar X	WDCRF	-	-
1964-S567	2438702.83	1964 Nov 3 0757	Aerobee 150	-	NASA 04.52UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1964-S601	2438706.94	1964 Nov 7 1031	Aerobee 150	-	NASA 04.109GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1964-S621	2438712.31	1964 Nov 12 1930	Aerobee 150	-	NE3.155	0.000	NRL	SS	-	NRL/Purcell,Garrett	Solar UV	WDCRF	NRL-Rpt7788	-
1964-S624	2438713.93	1964 Nov 14 1023	Aerobee 150	-	NASA 04.110GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1964-S626	2438716.26	1964 Nov 16 1818	Aerobee 150A	-	NASA 04.45GA	0.000	GSFC	SS	-	GSFC/Brace	Aeronomy	WDCRF	-	-
1964-S627	2438716.27	1964 Nov 16 1831	Aerobee 150	-	NASA 04.118NA	0.000	GSFC	SS	-	ARC/Pochari	Meteorites	WDCRF	-	-
1964-S639	2438719.22	1964 Nov 19 1715	Aerobee 150	-	NE3.154R	0.000	NRL	SS	-	NRL/Austin,Garrett	Solar UV	WDCRF	-	-
1964-S648	2438724.98	1964 Nov 25 1134	Aerobee 150	-	NB3.161	0.000	NRL	SS	-	NRL/Bowyer,Byram	XR Astron	WDCRF	Sci147,394	-
1964-S664	2438730.76	1964 Dec 1 0615	Aerobee 150	-	NASA 04.83GA	0.000	GSFC	SS	-	GSFC/Hennes	Aeronomy	TM-X-56664	MR650927-15	-
1964-S674	2438738.45	1964 Dec 8 2255	Aerobee 150	-	AD3.515	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1964-S678	2438741.10	1964 Dec 11 1426?	Aerobee 150	-	HITAB-TSRA-3	0.000	NOTS	SS	-	NOTS/	IR Background	WDCRF	-	-
1964-S685	2438746.10	1964 Dec 16 1430	Aerobee 150	-	NASA 04.132GA-GI	0.000	GSFC	SS	-	GSFC/Berg	Meteorites	WDCRF	-	-
1964-S689	2438746.79	1964 Dec 17 0655	Aerobee 150	-	NASA 04.125UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	WDCRF	-	-
1965-S34	2438774.16	1965 Jan 13 1549	Aerobee 150	-	KP3.9	0.000	KPNO	SS	-	KPNO/Wallace	Aeron	WDC	PlanSpaSci17,975	-
1965-S36	2438774.49	1965 Jan 13 2348	Aerobee 150	-	NASA 04.111NA	0.000	GSFC	SS	-	JPL/Barth	Aeronomy	WDCRF	SR6,381	-
1965-S42	2438782.35	1965 Jan 21 2030	Aerobee 150	-	NA3.163	0.000	NRL	SS	-	NRL/McNutt	Solar EUV/X	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S58	2438790.82	1965 Jan 30 0745	Aerobee 150	-	NF3.162	0.000	NRL	SS	-	NRL/Harwit	IR Astron	WDCRF	-	-
1965-S90	2438803.25	1965 Feb 11 1755	Aerobee 150	-	AE3.153	0.000	AFCRL	SS	-	AFCRL/Jursa	Solar UV/Solar EUV	WDCRF	-	-
1965-S99	2438810.70	1965 Feb 19 0451:02	Aerobee 150	-	NASA 04.129CA	0.000	GSFC	SS	-	JHU/Fastie,Dieke,Isler	Aeronomy	JGR73,3353	WDCRF	-
1965-S127	2438822.51	1965 Mar 3 0009	Aerobee 150	-	AE3.516	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	WDCRF	-	-
1965-S129	2438823.09	1965 Mar 03 1415:00	Aerobee 150	-	AE3.517	0.000	AFCRL	SU	-	AFCRL/Hinteregger	Solar UV	WDCRF	-	-
1965-S135	2438824.51	1965 Mar 5 0011	Aerobee 150	-	AE3.518	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	WDCRF	-	-
1965-S140	2438825.65	1965 Mar 6 0341	Aerobee 150	-	NASA 04.133UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1965-S141	2438825.81	1965 Mar 6 0732	Aerobee 150	-	AD3.613	0.000	AFCRL	SS	-	UUT/AFCRL/Baker,Ulwick	Aeron/Ionos	AnnalesGeo22,225	AnnalesGeo24,285	-
1965-S156	2438832.65	1965 Mar 13 0338	Aerobee 150	-	NASA 04.56GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	-	-
1965-S157	2438832.66	1965 Mar 13 0355	Aerobee 150	-	AE3.516	0.000	AFCRL	SS	-	AFCRL/	UV Astron??	WDCRF	-	-
1965-S158	2438832.82	1965 Mar 13 0742	Aerobee 150	-	AE3.612	0.000	AFCRL	SS	-	UUT/AFCRL/Baker,Ulwick	Meteorites/Auroral	WDCRF	AnnalesGeo24,285	-
1965-S166	2438837.13	1965 Mar 17 1510	Aerobee 150	-	NASA 04.63GS	0.000	GSFC	SS	-	ASE/Reidy,Giacconi	Solar X	WDCRF	-	-
1965-S174	2438838.62	1965 Mar 19 0300	Aerobee 150	-	NASA 04.57GG	0.000	GSFC	SS	-	GSFC/Boggess,Scolnick	UV Astron	WDCRF	-	-
1965-S177	2438839.74	1965 Mar 20 0542	Aerobee 300	-	NASA 06.11GA	0.000	GSFC	SS	-	UMI/Carignan	Aeronomy	WDCRF	-	-
1965-S208	2438849.74	1965 Mar 30 0550	Aerobee 150	-	ND3.159	0.000	NRL	SS	-	NRL/Packer,Gulledge	Aeron/UV Astron	WDCRF	-	-
1965-S226	2438863.12	1965 Apr 12 1447	Aerobee 150	-	NASA 04.49GS (128-3)	0.000	GSFC	SS	-	GSFC/Fredga	Solar UV	N65-24357	TMX-55536	-
1965-S236	2438865.95	1965 Apr 15 1045	Aerobee 150	-	NASA 04.127UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	N65-24358	-	-
1965-S242	2438871.15	1965 Apr 20 1540	Aerobee 150	-	NE3.156	0.000	NRL	SS	-	NRL/Austin,Garrett	Solar UV,X	WDCRF	-	-
1965-S250	2438874.72	1965 Apr 24 0515	Aerobee 150	-	NASA 04.114GG	0.000	GSFC	SF	U	GSFC/Boggess	UV Astron	WDCRF	-	-
1965-S256	2438877.77	1965 Apr 27 0630	Aerobee 150	-	NB3.176	0.000	NRL	SS	-	NRL/Byram	XR Astron	WDCRF	Sci152,66	-
1965-A64	2438884.81	1965 May 4 0730	Aerobee 150	-	NF3.162R	0.000	NRL	SF	U	NRL/Harwit	IR Astron	WDCRF	-	-
1965-S274	2438885.64	1965 May 5 0323	Aerobee 150	-	NASA 04.89GG	0.000	GSFC	SS	-	GSFC/Boggess,Wright	UV Astron	WDCRF	-	-
1965-S335	2438913.77	1965 Jun 2 0622	Aerobee 150	-	NASA 04.17UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1965-S362	2438929.38	1965 Jun 17 2107	Aerobee 150	-	NASA 04.140GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	TM-X-55840	-
1965-S382	2438935.11	1965 Jun 23 1432	Aerobee 150	-	KP3.10	0.000	KPNO	SS	-	KPNO/Broadfoot	Solar X	WDC	-	-
1965-S383	2438935.16	1965 Jun 23 1547	Aerobee 150	-	NASA 04.141GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	TM-X-55840	-
1965-S393	2438941.29	1965 Jun 29 1900	Aerobee 150	-	NASA 04.112NA	0.000	GSFC	SS	-	JPL/Barth	Aeronomy	WDCRF	-	-
1965-S414	2438942.10	1965 Jun 30 1430	Aerobee 150	-	NASA 04.105NP	0.000	GSFC	SS	-	JPL/Gaugler,Barath	Tech	WDCRF	MR650503-33	-
1965-S420	2438948.81	1965 Jul 7 0725	Aerobee 150	-	AE3.117/VFT65-S-1	0.000	AFCRL	SS	-	AFCRL/Soberman	Aeron	SR8-617	WDCRF	-
1965-A100	2438955.83	1965 Jul 14 0757	Aerobee 150	-	AF3.265/VFT65-S-2	0.000	AFCRL	SF	U	AFCRL/Soberman	Aeron AF3.285?	SR8-617	WDCRF	-
1965-S424	2438957.37	1965 Jul 15 2050	Aerobee 150	-	NASA 04.128UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1965-S430	2438963.33	1965 Jul 21 2000	Aerobee 150	-	CRL AD3.375	0.000	AFCRL	SS	-	AFCRL/Narcisi,Ulwick	Ionos	WDCRF	-	-
1965-S432	2438965.86	1965 Jul 24 0836	Aerobee 150	-	AF3.266/VFT65-S-3	0.000	AFCRL	SS	-	AFCRL/Soberman	Aeron	SR8-617	WDCRF	-
1965-S466	2438985.22	1965 Aug 12 1715	Aerobee 150	-	CRL AE3.519	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1965-S481	2438999.29	1965 Aug 26 1903	Aerobee 150	-	CRL AE3.614	0.000	AFCRL	SS	-	AFCRL/UUT/Ulwick	Ionos	WDCRF	-	-
1965-S499	2439021.41	1965 Sep 17 2151	Aerobee 150A	-	NASA 04.138II	0.000	GSFC	SS	-	CNES/Storey	Ionos	WDCRF	-	-
1965-S507	2439026.34	1965 Sep 22 2007	Aerobee 150	-	NASA 04.147CG	0.000	GSFC	SS	-	ASE/Giacconi,Gursky	XR Astron	ASE-1372	WDCRF	-
1965-S513	2439028.67	1965 Sep 25 0400	Aerobee 150	-	CRL AD3.722	0.000	AFCRL	SS	-	AFCRL/Cunniff	Test	WDCRF	AFCRL-66-631	-
1965-S514	2439029.41	1965 Sep 25 2154	Aerobee 150A	-	NASA 04.139II	0.000	GSFC	SS	-	CNES/Storey	Ionos	WDCRF	-	-
1965-S517	2439031.88	1965 Sep 28 0909:58	Aerobee 150	-	NASA 04.150GA-GI-GB	0.000	GSFC	SS	-	GSFC/Berg	Meteorites/Biology	TM-X-55642	WDCRF	-
1965-S520	2439032.50	1965 Sep 29	Aerobee 150	?	-	0.000	NRL	SS	-	NRL/CORN/Piper,Harwit	Aeron	WDCRF	-	-
1965-S535	2439034.56	1965 Oct 1 0130	Aerobee 150	-	NASA 04.121CG	0.000	GSFC	SS	-	LPARL/Fisher	XR Astron	WDCRF	IEEE-NS13-580	-
1965-S541	2439038.62	1965 Oct 5 0300	Aerobee 150	-	NRL NB3.184	0.000	NRL	SS	-	NRL/Byram,Chubb,Friedman	UV/XR Astron	WDCRF	-	-
1965-S550	2439046.63	1965 Oct 13 0313	Aerobee 150	-	NASA 04.151UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1965-S561	2439053.33	1965 Oct 19 2000	Aerobee 150A	-	NASA 04.142NA	0.000	GSFC	SS	-	UCO/Barth	UV Astron	WDCRF	-	-
1965-S566	2439054.36	1965 Oct 20 2035	Aerobee 150	-	NASA 04.146DS	0.000	GSFC	SS	-	NRL/Koomen	UV Astron/Solar UV	WDCRF	SR-VII-1252	-
1965-S568	2439055.17	1965 Oct 21 1600	Aerobee 150	-	NASA 04.164UA	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	JHU	-
1965-S571	2439056.73	1965 Oct 23 0530	Aerobee 150	-	NRL ND3.167	0.000	NRL	SS	-	NRL/Packer,Gulledge	Aeron	WDCRF	AJ71,163	-
1965-S577	2439060.14	1965 Oct 26 1525	Aerobee 150	-	NASA 04.53GS	0.000	GSFC	SS	-	GSFC/Fredga	Solar	WDCRF	TMX-55536	-
1965-S584	2439062.98	1965 Oct 29 1130	Aerobee 150	-	NRL NF3.162R	0.000	NRL	SS	-	NRL/CORN/McNutt,Harw.	IR Astron	ApplOpt5,1732	AJ71,1026	-
1965-S594	2439068.29	1965 Nov 3 1900	Aerobee 150	-	CRL AE3.520	0.000	AFCRL	SS	-	AFCRL/Manson,Hinteregger	Solar SX	ApJ153,L191	-	-
1965-S606	2439074.29	1965 Nov 9 1900	Aerobee 150	-	CRL AF3.523	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1965-S608	2439074.60	1965 Nov 10 0230	Aerobee 150	-	CRL AD3.356	0.000	AFCRL	SS	-	AFCRL/Salisbury	IR Astron	WDCRF	-	-
1965-S617	2439081.17	1965 Nov 16 1600	Aerobee 150	-	NASA 04.119NA	0.000	GSFC	SS	-	ARC/Farlow	Meteorites	WDCRF	MR651129-16	-
1965-S635	2439084.85	1965 Nov 20 0828	Aerobee 150	-	KP3.8	0.000	KPNO	SS	-	KPNO/Stuart	UV Astron	WDC	-	-
1965-S659	2439094.83	1965 Nov 30 0748	Aerobee 150	-	NASA 04.155GG	0.000	GSFC	SS	-	GSFC/Scolnik	UV Astron	WDCRF	-	-
1965-S661	2439097.23	1965 Dec 2 1730	Aerobee 150	-	NASA 04.145GS	0.000	GSFC	SS	-	GSFC/Fredga	Solar UV	WDCRF	TMX-55536,ApJ144,854	-
1966-S68	2439143.64	1966 Jan 18 0319	Aerobee 150A	-	NASA 04.90GG	0.000	GSFC	SS	-	GSFC/Wright	UV Astron	WDCRF	-	-
1966-M03	2439144.69	1966 Jan 19 0439	Aerobee 150	-	KP3.11	0.000	KPNO	SF	U	KPNO/Stuart	UV Astron	WDC	-	-
1966-S83	2439152.56	1966 Jan 27 0129	Aerobee 150	-	NRL NC3.186	0.000	NRL	SS	-	NRL/Young,Holmes	Aeron/Ionos	WDCRF	-	-
1966-S88	2439158.25	1966 Feb 1 1800	Aerobee 150	-	NRL NE3.156R	0.000	NRL	SS	-	NRL/Austin,Garrett	Solar SX	WDCRF	CR-77752	-
1966-S92	2439158.92	1966 Feb 2 1004	Aerobee 150	-	NASA 04.50UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	SP-4007	-
1966-S121	2439176.73	1966 Feb 20 0530	Aerobee 150	-	NASA 04.162UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	CanJPhys44,2948	WDCRF	-
1966-S145	2439187.25	1966 Mar 2 1755	Aerobee 150A	-	NASA 04.99DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar EUV	CR-76317	SP-4007	-
1966-S148	2439188.41	1966 Mar 3 2154	Aerobee 150A	-	NASA 04.100DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar EUV	CR-76317	-	-
1966-S153	2439192.82	1966 Mar 8 0742	Aerobee 150	-	NASA 04.148CG	0.000	GSFC	SS	-	ASE/MIT/Giacconi,Oda	XR Astron	ASE-1372	ASE-1637	-
1966-S154	2439193.60	1966 Mar 9 0222	Aerobee 150	-	KP3.15	0.000	KPNO	SS	-	PRIN/Morton	UV Astron	WDC	-	-
1966-S197	2439215.27	1966 Mar 30 1835	Aerobee 150	-	CRL AF3.524	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL-68-0009	-	-
1966-S219	2439230.12	1966 Apr 14 1500	Aerobee 150	-	NASA 04.143NA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1966-S220	2439230.13	1966 Apr 14 1508	Aerobee 150	-	NASA 04.24US	0.000	GSFC	SS	-	UCO/Rense	Solar	WDCRF	-	-
1966-S231	2439236.98	1966 Apr 21 1125	Aerobee 150	-	NASA 04.165UA	0.000	GSFC	SS	-	JHU/Fastie	UV Astron STRAP?	WDCRF	SP-4007	-
1966-S237	2439244.02	1966 Apr 28 1235	Aerobee 150	-	NASA 04.189DS	0.000	GSFC	SS	-	NRL/Koomen,Purcell	Solar SX	WDCRF	CR-77752	-
1966-S239	2439244.66	1966 Apr 29 0349	Aerobee 150	-	CRL AD3.723	0.000	AFCRL	SS	-	AFCRL/Walker,Cunniff	Tech IR	AFCRL-66-631	AFCRL	-
1966-S258	2439255.14	1966 May 9 1520	Aerobee 150	-	NASA 04.106NP	0.000	GSFC	SS	-	JPL/Gaugler,Brown	Tech	CR-76571	-	-
1966-S268	2439263.67	1966 May 18 0402	Aerobee 150A	-	NASA 04.171UG	0.000	GSFC	SS	-	UWI/Code,Bless	UV Astron	WDCRF	-	-
1966-S271	2439266.13	1966 May 20 1510	Aerobee 150	-	NASA 04.95GS	0.000	GSFC	SS	-	GSFC/Underwood	Solar X	CR-77312	CR-77647	-
1966-S273	2439266.48	1966 May 20 2330	Aerobee 150	-	NASA 04.92GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar	WDCRF	CR-76049	-
1966-S279	2439269.71	1966 May 24 0507	Aerobee 150	-	NASA 04.51UG	0.000	GSFC	SF	U	PRIN/Morton	UV Astron	WDCRF	CR-	-
1966-S373	2439322.73	1966 Jul 16 0532	Aerobee 150	-	NASA 04.159GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	CR-77331	-
1966-S380	2439325.65	1966 Jul 19 0336	Aerobee 150	-	NASA 04.144DG	0.000	NASA/NRL	SS	-	NRL/Byram,Carruthers	UV Astron	WDCRF	CR-77332	-
1966-S386	2439329.38	1966 Jul 22 2102	Aerobee 150	-	CRL AF3.525	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	AFCRL-68-0009	-	-
1966-S398	2439334.12	1966 Jul 27 1500	Aerobee 150	-	NRL NE3.190	0.000	NRL	SS	-	NRL/Garret,Snider,Purc.	Solar EUV	WDCRF	SR8,450	-
1966-S431	2439346.27	1966 Aug 8 1822	Aerobee 150	-	CRL AE3.734	0.000	AFCRL	SS	-	AFCRL/Filz	Cosmic Rays	FC	AFCRL	-
1966-S436	2439349.16	1966 Aug 11 1553	Aerobee 150	-	CRL AC3.364	0.000	AFCRL	SS	-	AFCRL/Silverman	Auroral	AFCRL	-	-
1966-S457	2439364.26	1966 Aug 26 1813	Aerobee 150A	-	NASA 04.101DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar	WDCRF	-	-
1966-S466	2439367.14	1966 Aug 29 1520	Aerobee 150	-	NASA 04.156GM	0.000	GSFC	SS	-	GSFC/Heath	Aeronomy/Solar UV	WDCRF	JGR78,2779	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S481	2439371.45	1966 Sep 2 2250	Aerobee 150	-	NRL NA3.182	0.000	NRL	SS	-	NRL/Sloan,Guss	Solar EUV	WDCRF	-	-
1966-S498	2439388.74	1966 Sep 20 0545	Aerobee 150	-	NASA 04.176UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1966-A107	2439389.21	1966 Sep 20 1705	Aerobee 150	-	NASA 12.06GT	0.000	GSFC	SS	-	GSFC/Busse	Test	WDCRF	-	-
1966-S528	2439403.35	1966 Oct 4 2029	Aerobee 150	-	NRL NA3.160	0.000	NRL/KPNO	SS	-	NRL/Unzicker	Solar X/Test	WDC	ApJ148,L133	-
1966-S538	2439410.47	1966 Oct 11 2322	Aerobee 150	-	KP3.16	0.000	KPNO	SS	-	KPNO/Wallace,Broadfoot	Aeron	JGR73,4813	PlanSpaSci17,975	-
1966-S539	2439410.58	1966 Oct 12 0152	Aerobee 150	-	NASA 04.149CG	0.000	GSFC	SS	-	ASE/Gursky	XR Astron	WDCRF	CR-752,ApJ148,L119	-
1966-S557	2439421.14	1966 Oct 22 1520	Aerobee 150	-	NASA 04.161NA	0.000	GSFC	SS	-	ARC/Farlow	Meteorites	WDCRF	-	-
1966-S561	2439424.23	1966 Oct 25 1725	Aerobee 150	-	NASA 04.195GA-GI	0.000	GSFC	SS	-	GSFC/Berg	Meteorites	WDCRF	-	-
1966-S576	2439430.50	1966 Nov 1	Aerobee 150	-	-	0.000	AFCRL	SS	-	AFCRL/	Solar EUV	SP-4007	-	-
1966-S615	2439442.18	1966 Nov 12 1615	Aerobee 150	-	NASA 04.153GS	0.000	GSFC	SS	-	GSFC/Underwood	Solar eclipse	WDCRF	-	-
1966-S601	2439442.19	1966 Nov 12 1640	Aerobee 150	-	NASA 04.191DS	0.000	NASA/NRL	SS	-	NRL/Koomen,Purcell	Solar EUV/eclipse	WDCRF	SR8,459	-
1966-S624	2439446.05	1966 Nov 16 1315	Aerobee 150	-	CRL AF3.267	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	AFCRL	-	-
1966-S648	2439450.92	1966 Nov 21 1000	Aerobee 150	-	NASA 04.154GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1966-S655	2439456.59	1966 Nov 27 0216	Aerobee 150	-	CRL AG3.357	0.000	AFCRL	SS	-	AFCRL/Salisbury,Adler	IR Astron	AFCRL	-	-
1966-S663	2439459.99	1966 Nov 30 1145	Aerobee 150	-	NASA 04.181UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1966-S667	2439462.38	1966 Dec 2 2109	Aerobee 150	-	NASA 04.180UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1966-S669	2439465.65	1966 Dec 6 0335	Aerobee 150	-	CRL AE3.724	0.000	AFCRL	SS	-	AFCRL/Cunniff	Tech IR	AFCRL	-	-
1966-S682	2439472.77	1966 Dec 13 0630	Aerobee 150	-	NASA 04.182UG	0.000	GSFC	SS	-	UCB/Bowyer	XR Astron	WDCRF	Nat217,32	-
1966-S685	2439473.84	1966 Dec 14 0816	Aerobee 150	-	CRL AF3.615	0.000	AFCRL	SS	-	AFCRL/UUT/Sandock	Ionos	AnnalesGeo24,649	AnnalesGeo24,285	-
1966-S687	2439473.98	1966 Dec 14 1130	Aerobee 150	-	NRL NB3.194	0.000	NRL	SS	-	NRL/Byram	XR Astron?	WDCRF	-	-
1966-A153	2439476.76	1966 Dec 17 0615	Aerobee 150	-	KP3.19	0.000	KPNO	SF	U	KPNO/Stuart	UV Astron	WDC	-	-
1967-S61	2439508.29	1967 Jan 17 1900	Aerobee 150	-	CRL AG3.526	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL-68-0009	-	-
1967-S122	2439538.68	1967 Feb 17 0418	Aerobee 150	-	NASA 04.163UA	0.000	GSFC	SS	-	JHU/Fastie	Auroral	WDCRF	SP-4008	-
1967-S135	2439552.65	1967 Mar 3 0330	Aerobee 150	-	NASA 04.160GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1967-S136	2439552.68	1967 Mar 3 0420	Aerobee 150	-	NASA 04.84UG	0.000	GSFC	SS	-	CORN/Harwit	IR Astron	WDCRF	-	-
1967-S156	2439564.22	1967 Mar 14 1714	Aerobee 150A	-	NASA 04.102DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	-	-
1967-S164	2439566.66	1967 Mar 17 0348	Aerobee 150	-	NASA 04.194DG	0.000	NASA/NRL	SS	-	NRL/Carruthers	UV Astron	WDCRF	SP-4008	-
1967-S168	2439572.21	1967 Mar 22 1656	Aerobee 150A	-	NASA 04.103DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	AnnalesGeo26,547	-
1967-S188	2439581.65	1967 Apr 1 0340	Aerobee 150	-	NASA 04.204GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	SP-4008	-
1967-S193	2439585.51	1967 Apr 5 0015	Aerobee 150	-	NASA 04.168CS	0.000	GSFC	SS	-	LPARL/Weldon,Acton	Solar X/XR Astron	WDCRF	SP-4008	-
1967-S197	2439587.85	1967 Apr 7 0825	Aerobee 150	-	NASA 04.186UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1967-S230	2439605.14	1967 Apr 24 1520	Aerobee 150	-	NASA 04.117GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar X/EUV	WDCRF	SP-4008	-
1967-S246	2439615.67	1967 May 5 0400	Aerobee 150	-	NASA 04.157GG	0.000	GSFC	SS	-	GSFC/Evans	UV Astron	WDCRF	SP-4008	-
1967-S248	2439615.81	1967 May 5 0730	Aerobee 150	-	NASA 04.203UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	SP-4008	-
1967-S254	2439620.38	1967 May 9 2100	Aerobee 150	-	NASA 04.192DS	0.000	NRL/NASA	SS	-	NRL/Koomen,Purcell	Solar Opt/EUV	WDCRF	SP-4008	-
1967-S260	2439626.86	1967 May 16 0832	Aerobee 150	-	NRL NB3.177	0.000	NRL	SS	-	NRL/Byram	XR Astron	WDCRF	-	-
1967-S289	2439643.69	1967 Jun 2 0430	Aerobee 150	-	NASA 04.210GG	0.000	GSFC	SS	-	GSFC/Smith.A,Boggess	UV Astron	WDCRF	SP-4008	-
1967-S293	2439648.10	1967 Jun 6 1420	Aerobee 150	-	NASA 04.222NA	0.000	GSFC	SS	-	ARC/Farlow	Meteorites	WDCRF	-	-
1967-S298	2439650.68	1967 Jun 9 0415	Aerobee 150	-	KP3.21	0.000	KPNO	SS	-	PRIN/Morton	UV Astron	WDC	-	-
1967-S311	2439663.33	1967 Jun 21 1949	Aerobee 150	-	NASA 04.179UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	SP-4008	-
1967-S337	2439677.28	1967 Jul 5 1841	Aerobee 150	-	CRL AE3.582	0.000	AFCRL	SS	-	AFCRL/Silverman	Auroral	FC	AFCRL	-
1967-S341	2439679.67	1967 Jul 8 0410	Aerobee 150	-	NASA 04.190UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	SP-4008	-
1967-S352	2439691.88	1967 Jul 20 0900	Aerobee 150	-	NASA 04.212UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1967-S353	2439692.31	1967 Jul 20 1924	Aerobee 150	-	NASA 04.211UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1967-S368	2439706.70	1967 Aug 4 0453	Aerobee 150	-	NASA 04.172UG	0.000	GSFC	SS	-	UWI/Code,Bless	UV/XR Astron	WDCRF	SP-4008	-
1967-S376	2439711.04	1967 Aug 8 1257	Aerobee 150	-	NASA 04.207UA	0.000	GSFC	SS	-	UMI/Miller,Schulte,Jones	Ionos	WDCRF	SP-4008	-
1967-S377	2439711.41	1967 Aug 8 2145	Aerobee 150	-	CRL AH3.529	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1967-S384	2439713.88	1967 Aug 11 0900	Aerobee 150	-	NASA 04.223NA	0.000	GSFC	SS	-	ARC/Farlow	Meteorites	WDCRF	SR10,266	-
1967-S386	2439714.77	1967 Aug 12 0630	Aerobee 150	-	NRL NC3.187	0.000	NRL	SS	-	NRL/Young,Holmes	Aeron/Ionos	WDCRF	-	-
1967-S387	2439718.28	1967 Aug 15 1845	Aerobee 150	-	CRL AG3.528	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1967-S396	2439728.69	1967 Aug 26 0436	Aerobee 150	-	NASA 04.187CG	0.000	GSFC	SS	-	LPARL/Fisher	XR Astron	WDCRF	SP-4008	-
1967-S430	2439741.64	1967 Sep 8 0321	Aerobee 150	-	NRL NB3.196	0.000	NRL	SS	-	NRL/Meekins,Henry	XR Astron	WDCRF	-	-
1967-A117	2439746.43	1967 Sep 12 2225	Aerobee 150	-	NASA 12.07GT	0.000	GSFC	SF	U	GSFC/Busse	Test	WDCRF	SP-4008	-
1967-S461	2439764.18	1967 Sep 30 1614	Aerobee 150	-	NASA 04.104DS	0.000	GSFC	SS	-	AFCRL/Hinteregger	Solar EUV	WDCRF	SP-4008	-
1967-S469	2439767.26	1967 Oct 3 1818	Aerobee 150	-	NASA 04.152GS	0.000	GSFC	SS	-	GSFC/Underwood,Muney	Solar X/UV	WDCRF	SP-4008	-
1967-S476	2439769.10	1967 Oct 5 1430	Aerobee 150	-	NASA 04.243DS	0.000	GSFC	SS	-	NRL/Holtz,Purcell,Koomen	Solar EUV	WDCRF	SP-4008	-
1967-S497	2439783.00	1967 Oct 19 1205	Aerobee 150	-	NASA 04.239US	0.000	GSFC	SS	-	UCO/Rense,Jones	Solar UV	WDCRF	JGR75,6966	-
1967-S506	2439790.95	1967 Oct 27 1045	Aerobee 150	-	NASA 04.158GG	0.000	GSFC	SS	-	GSFC/Evans	UV Astron	WDCRF	SP-4008	-
1967-S519	2439795.98	1967 Nov 1 1130	Aerobee 150	-	NASA 04.226UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	SP-4008	-
1967-S528	2439802.24	1967 Nov 7 1745	Aerobee 150	-	CRL AH3.530	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Aeron/Solar EUV	AFCRL	-	-
1967-S534	2439808.92	1967 Nov 14 1005	Aerobee 150	-	NASA 04.229UG	0.000	NASA/NRL	SS	-	NRL/Carruthers	UV Astron	WDCRF	SP-4008	-
1967-S536	2439810.40	1967 Nov 15 2130	Aerobee 150	-	CRL AD3.365	0.000	AFCRL	SS	-	AFCRL/Silverman	Aeron	AFCRL	-	-
1967-S542	2439814.95	1967 Nov 20 1042	Aerobee 150	-	NASA 04.228CG	0.000	GSFC	SS	-	ASE/Giacconi,Gursky	XR Astron	WDCRF	SP-4008	-
1967-S560	2439828.99	1967 Dec 4 1145	Aerobee 150	-	KP3.20	0.000	KPNO	SS	-	UFL/KPNO/Anderson	UV Astron	JAtSci26,874	WDC	-
1967-S565	2439829.98	1967 Dec 5 1130	Aerobee 150	-	NASA 04.197UA	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	AppOpt8,1821	-
1967-S566	2439830.30	1967 Dec 5 1911	Aerobee 150A	-	NASA 04.213NB	0.000	GSFC	SS	-	WFF/Belleville,Lange	Biology	WDCRF	ISST9	-
1967-S568	2439830.95	1967 Dec 6 1045	Aerobee 150	-	NASA 04.219GG	0.000	GSFC	SS	-	GSFC/Smith.A	UV Astron	WDCRF	SP-4008	-
1967-S576	2439835.42	1967 Dec 10 2200	Aerobee 150	-	NASA 04.201NT	0.000	GSFC	SS	-	ARC/Holtz,Hanson	Test/Opt Astron	WDCRF	Sci164,3886	-
1967-S582	2439838.04	1967 Dec 13 1259	Aerobee 150	-	CRL AF3.268	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	AFCRL	-	-
1968-S94	2439878.21	1968 Jan 22 1705	Aerobee 150	-	NRL NA3.201	0.000	NRL/KPNO	SS	-	NRL/Unzicker	Solar X	WDC	-	-
1968-S101	2439881.67	1968 Jan 26 0400	Aerobee 150	-	NASA 04.205GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1968-S115	2439888.73	1968 Feb 2 0530	Aerobee 150	-	NASA 04.261GG	0.000	GSFC	SS	-	ASE/Giacconi,Gursky,Gor.	XR Astron	WDCRF	-	-
1968-S116	2439888.76	1968 Feb 2 0610	Aerobee 150	-	NASA 04.220GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1968-S128	2439895.70	1968 Feb 9 0441	Aerobee 150	-	NASA 04.217UA	0.000	GSFC	SS	-	JHU/Fastie	Aurora	WDCRF	AnnalesGeo28,489	-
1968-S135	2439903.60	1968 Feb 17 0224	Aerobee 150	-	KP3.22	0.000	KPNO	SS	-	KPNO/Stuart	UV Astron	WDC	-	-
1968-S137	2439906.29	1968 Feb 19 1855	Aerobee 150	-	CRL AH3.531	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1968-S138	2439906.47	1968 Feb 19 2315	Aerobee 150	-	NASA 04.169CS	0.000	GSFC	SS	-	LPARL/Acton	Solar X	WDCRF	-	-
1968-S162	2439916.65	1968 Mar 1 0330	Aerobee 150	-	NASA 04.177UG	0.000	GSFC	SS	-	CORN/Harwit	IR Astron	WDCRF	PRL21,1460	-
1968-S178	2439931.29	1968 Mar 15 1904	Aerobee 150	-	NASA 04.209CS	0.000	GSFC	SS	-	ASE/Reidy,Vaiana	Solar X	WDCRF	-	-
1968-S180	2439931.64	1968 Mar 16 0315	Aerobee 150	-	NASA 04.198GE	0.000	GSFC	SS	-	GSFC/Boldt	XR Astron	GSFC-X-611-69-245	WDCRF	-
1968-S191	2439935.18	1968 Mar 19 1615	Aerobee 150	-	NASA 04.202NT	0.000	GSFC	SS	-	ARC/Holtz,Hansen	Test	WDCRF	SP-4401	-
1968-S203	2439937.81	1968 Mar 22 0724	Aerobee 150	-	NASA 04.255GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron	WDCRF	-	-
1968-S227	2439944.78	1968 Mar 29 0645	Aerobee 150	-	NRL NF3.171	0.000	NRL	SS	-	NRL/Shivanandan,McNutt	IR Astron	WDCRF	ApJ154,L131	-
1968-S228	2439944.85	1968 Mar 29 0829	Aerobee 150	-	CRL AE3.154	0.000	AFCRL	SS	-	AFCRL/Leblanc,Jursa	Aeron	AFCRL	-	-
1968-S257	2439953.74	1968 Apr 7 0545	Aerobee 150	-	NRL NB3.204	0.000	NRL	SS	-	NRL/Byram	XR Astron	WDCRF	KPNO	-
1968-S277	2439970.46	1968 Apr 23 2306	Aerobee 150	-	NASA 04.238UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S290	2439974.13	1968 Apr 27 1505	Aerobee 150	-	NASA 04.244DS	0.000	GSFC	SS	-	NRL/Tousey,Koomen	Solar UV	WDCRF	-	-
1968-S293	2439976.12	1968 Apr 29 1500	Aerobee 150	-	NASA 04.245DS	0.000	GSFC	SS	-	NRL/Koomen	Solar UV	WDCRF	-	-
1968-S305	2439979.80	1968 May 3 0715	Aerobee 150	-	NASA 04.227UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1968-A77	2439979.82	1968 May 3 0745	Aerobee 150	-	NASA 04.196UG	0.000	GSFC	SF	U	CAL/Novick	XR Astron	WDCRF	-	-
1968-S322	2439993.66	1968 May 17 0345	Aerobee 150	-	KP3.24	0.000	KPNO	SS	-	KPNO/Broadfoot	UV Astron	JAtSci26,874	WDC	-
1968-S323	2439993.68	1968 May 17 0425	Aerobee 150	-	NASA 04.221GG	0.000	GSFC	SS	-	GSFC/Kondo	UV Astron	Ulrich/Wire	WDCRF	-
1968-S332	2439997.12	1968 May 20 1500	Aerobee 150	-	NASA 04.230GS	0.000	GSFC	SS	-	GSFC/Fredga	Solar	SolarPhys9,358	WDCRF	-
1968-S350	2440001.78	1968 May 25 0640	Aerobee 150	-	NASA 04.173UG	0.000	GSFC	SS	-	UWI/Bless	UV Astron	WDCRF	-	-
1968-S364	2440016.24	1968 Jun 8 1741	Aerobee 150	-	NASA 04.263CS	0.000	GSFC	SS	-	ASE/Reidy,Vaiana	Solar EUV/X	WDCRF	-	-
1968-S365	2440016.28	1968 Jun 8 1838	Aerobee 150	-	NASA 04.134DS	0.000	GSFC	SS	-	NRL/Tousey,Purcell	Solar EUV	WDCRF	-	-
1968-S383	2440032.45	1968 Jun 24 2251	Aerobee 150A	-	NASA 04.214NB	0.000	GSFC	SS	-	WFF/Belleville,Detwiler	Biology	WDCRF	ISST9	-
1968-S425	2440064.66	1968 Jul 27 0355	Aerobee 150	-	NASA 04.236UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WDCRF	-	-
1968-S426	2440064.69	1968 Jul 27 0430	Aerobee 150	-	NASA 04.225UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1968-S439	2440069.88	1968 Aug 1 0910	Aerobee 150	-	NASA 04.224NA	0.000	GSFC	SS	-	ARC/Farlow	Aeronomy/Meteorites	WDCRF	SR10,337	-
1968-S443	2440075.28	1968 Aug 6 1843	Aerobee 150	-	CRL AG3.532	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Ionos/Solar EUV	AFCRL	-	-
1968-M17	2440083.19	1968 Aug 14 1637	Aerobee 150	-	NRL NE3.183	0.000	NRL	SF	U	NRL/Prinz,Bartoe	Solar EUV	WDCRF	-	-
1968-S458	2440083.83	1968 Aug 15 0759	Aerobee 150	-	CRL AE3.725	0.000	AFCRL	SS	-	AFCRL/Walker	Aeron IR	FC	AFCRL	-
1968-S489	2440104.12	1968 Sep 4 1450	Aerobee 150	-	NASA 04.130UA	0.000	GSFC	SS	-	NCAR/Martell	Aeronomy	WDCRF	-	-
1968-A94	2440113.10	1968 Sep 13 1431	Aerobee 150 MI	20	NASA 12.14GT	0.000	GSFC	SS	-	GSFC/Kraft,Busse	Test	WDCRF	SP-4010	-
1968-S504	2440120.66	1968 Sep 21 0345	Aerobee 150	-	NASA 04.174UG	0.000	GSFC	SS	-	UWI/Code	UV Astron	WDCRF	-	-
1968-S506	2440122.15	1968 Sep 22 1530	Aerobee 150	-	NASA 04.246DS	0.000	GSFC	SS	-	NRL/Koomen,Tousey	Solar UV	WDCRF	-	-
1968-S508	2440124.19	1968 Sep 24 1630	Aerobee 150	-	NASA 04.185US	0.000	GSFC	SS	-	HCO/Goldberg,Reeves	Solar UV	WDCRF	-	-
1968-S516	2440130.31	1968 Sep 30 1930	Aerobee 150 MI	20	NASA 04.231GS	0.000	GSFC	SS	-	GSFC/Behring	Solar EUV	WDCRF	ApplOptics12,528	-
1968-S517	2440131.29	1968 Oct 1 1852	Aerobee 150	-	NASA 04.241UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1968-S531	2440139.94	1968 Oct 10 1030	Aerobee 150	-	NASA 04.265DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	-	-
1968-S540	2440146.47	1968 Oct 16 2315	Aerobee 150	-	NASA 04.248CS	0.000	GSFC	SS	-	LPARL/Acton	Solar	WDCRF	-	-
1968-S584	2440175.82	1968 Nov 15 0745	Aerobee 150	-	NASA 04.268UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron	WDCRF	-	-
1968-S601	2440182.27	1968 Nov 21 1830	Aerobee 150	-	CRL AT3.533	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1968-S602	2440182.30	1968 Nov 21 1915	Aerobee 150 MI	-	NASA 04.240US	0.000	GSFC	SS	-	UCO/Bruner,Rense	Solar	WDCRF	-	-
1968-S603	2440182.36	1968 Nov 21 2045	Aerobee 150A	-	NASA 04.215NB	0.000	GSFC	SS	-	UKY/WFF/Detwiler	Biology	WDCRF	-	-
1968-S634	2440197.76	1968 Dec 7 0611	Aerobee 150	-	NASA 04.264CG	0.000	GSFC	SS	-	ASE/Gorenstein	XR Astron	WDCRF	-	-
1968-S656	2440211.64	1968 Dec 21 0320	Aerobee 150	-	NASA 04.178UG	0.000	GSFC	SS	-	CORN/Harwit	IR Astron	SR10,532	ApJ157,L45	-
1969-S58	2440231.61	1969 Jan 10 0243	Aerobee 150	-	NASA 04.206UA	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	ApplOptics9,601	-
1969-S94	2440252.64	1969 Jan 31 0315	Aerobee 150 MI	20	NASA 04.266DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	-	-
1969-S108	2440257.11	1969 Feb 4 1435	Aerobee 150	-	NASA 04.272UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	SR13,235	-
1969-S113	2440259.11	1969 Feb 6 1435	Aerobee 150	-	NASA 04.273UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	SR13,235	-
1969-S122	2440260.64	1969 Feb 8 0319	Aerobee 150	-	NASA 04.308UA	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	ApplOptics9,601	-
1969-S127	2440264.68	1969 Feb 12 0425	Aerobee 150	-	NASA 04.188UA	0.000	GSFC	SF	U	JHU/Fastie	Aeronomy/Auroral	FC	-	-
1969-S129	2440265.22	1969 Feb 12 1715	Aerobee 150	-	NASA 04.135DS	0.000	GSFC	SS	-	NRL/Tousey	Solar UV	WDCRF	-	-
1969-S161	2440283.92	1969 Mar 3 1000	Aerobee 150 MI	20	NASA 04.199GE	0.000	GSFC	SS	-	GSFC/Holt,Boldt	XR Astron	WDCRF	GSFC-X-611-69-248	-
1969-S168	2440287.60	1969 Mar 7 0227	Aerobee 150	-	NASA 04.286UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WDCRF	-	-
1969-S170	2440290.44	1969 Mar 9 2239:58	Aerobee 150	-	CRL AT3.727	0.000	AFCRL	SS	-	AFGL/USU/Walker,Megill	Solar opt/Aeron	JGR78.6140	AFCRL	-
1969-S188	2440294.73	1969 Mar 14 0530	Aerobee 150	-	NASA 04.290DG	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	Nature231,107	-
1969-S189	2440294.79	1969 Mar 14 0701	Aerobee 150	-	NASA 04.251GG-UG	0.000	GSFC	SS	-	GSFC/Boggess,Evans	UV Astronomy	WDCRF	SR12,1589	-
1969-S212	2440301.70	1969 Mar 21 0453	Aerobee 150	-	CRL AT3.756	0.000	AFCRL	SS	-	AFGL/Ulwick	Auroral	AFCRL	-	-
1969-S231	2440308.79	1969 Mar 28 0701	Aerobee 150	-	NRL NB3.205	0.000	NRL	SS	-	NRL/Chubb	XR Astron	WDCRF	-	-
1969-S240	2440310.65	1969 Mar 30 0333	Aerobee 150	-	CRL AT3.759	0.000	AFCRL	SS	-	AFGL/Ulwick	Auroral	AFCRL	-	-
1969-S253	2440316.32	1969 Apr 4 1935	Aerobee 150	-	CRL AG3.527	0.000	AFCRL	SS	-	AFGL/Hinteregger	Solar EUV	AFCRL	ApJ181,1009	-
1969-S254	2440316.33	1969 Apr 4 1950	Aerobee 150	-	CRL AT3.534	0.000	AFCRL	SS	-	AFGL/Hinteregger	Solar EUV	AFCRL	-	-
1969-S256	2440320.21	1969 Apr 8 1700	Aerobee 150	-	NASA 04.282CS	0.000	GSFC	SS	-	ASE/Reidy,Vaiana	Solar	WDCRF	-	-
1969-S266	2440326.15	1969 Apr 14 1536	Aerobee 150 MI	20	NASA 04.233GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar	WDCRF	-	-
1969-S273	2440328.18	1969 Apr 16 1620	Aerobee 150 MI	20	NASA 04.247DS	0.000	GSFC	SS	-	NRL/Tousey	Solar	WDCRF	-	-
1969-S277	2440329.20	1969 Apr 17 1645	Aerobee 150	-	NASA 04.274DS	0.000	GSFC	SS	-	NRL/Tousey,Koomen	Solar	WDCRF	-	-
1969-S302	2440338.64	1969 Apr 27 0322:00	Aerobee 150	-	NASA 04.278UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	Nature222,728	-	-
1969-S329	2440357.47	1969 May 15 2310	Aerobee 150A	-	NASA 04.216NB	0.000	GSFC	SS	-	UKY/Detwiler,Lange	Biology	WDCRF	ISST9	-
1969-S331	2440358.35	1969 May 16 2020:00	Aerobee 150 MI	20	NASA 04.232GS	0.000	GSFC	SS	-	GSFC/Behring	Solar	ApJ175,493	ApplOptics12,528	-
1969-S362	2440385.73	1969 Jun 13 0530	Aerobee 150	-	KP3.28	0.000	KPNO	SS	-	KPNO/Broadfoot	UV Astron	WDC	-	-
1969-S363	2440386.29	1969 Jun 13 1900	Aerobee 150 MI	20	NASA 04.242UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1969-S364	2440387.41	1969 Jun 14 2152	Aerobee 150	-	NASA 04.184UG-IG	0.000	GSFC	SS	-	UCB/Bowyer	XR Astronomy	ApJ174,529	-	-
1969-S374	2440392.74	1969 Jun 20 0545	Aerobee 150 MI	20	NASA 04.269UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astronomy	WDCRF	-	-
1969-S376	2440394.73	1969 Jun 22 0528	Aerobee 150	-	NASA 04.183UG	0.000	GSFC	SS	-	UCB/Bowyer	XR Astronomy	WDCRF	-	-
1969-S378	2440397.29	1969 Jun 24 1900	Aerobee 150	-	CRL AT3.535	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1969-S724	2440439.50	1969 Aug 6	Aerobee 150	-	-	0.000	NRL	SS	-	NRL/Garrett	Solar UV?	TM-X-65777	-	-
1969-S454	2440449.41	1969 Aug 15 2155	Aerobee 150	-	CRL A03.903-1	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1969-S490	2440474.69	1969 Sep 10 0435	Aerobee 150	-	NASA 04.312UG	0.000	GSFC	SS	-	CORN/Harwit	IR Astronomy	WDCRF	-	-
1969-S493	2440475.93	1969 Sep 11 1021	Aerobee 150	-	NASA 04.193US	0.000	GSFC	SS	-	HCO/Goldberg	Solar	USCOSPAR70	-	-
1969-S506	2440482.28	1969 Sep 17 1845	Aerobee 150 MI	20	NASA 04.166DS	0.000	GSFC	SS	-	AFCRL/Hinterreger	Solar	WDCRF	-	-
1969-S512	2440485.84	1969 Sep 21 0805	Aerobee 150	-	NRL NB3.202	0.000	NRL	SS	-	NRL/Patterson,Henry	UV Astron	WDCRF	-	-
1969-S514	2440488.19	1969 Sep 23 1636	Aerobee 150	-	NASA 04.170US	0.000	GSFC	SS	-	UHI/Jefferies	Solar	WDCRF	-	-
1969-S518	2440489.24	1969 Sep 24 1745	Aerobee 150	-	NASA 04.294US	0.000	GSFC	SS	-	UCO/Rense	Solar	WDCRF	-	-
1969-S531	2440497.60	1969 Oct 3 0224	Aerobee 150 MI	20	NASA 04.279UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1969-S542	2440508.67	1969 Oct 14 0400	Aerobee 150	-	NRL NC3.136	0.000	NRL	SS	-	NRL/Young,Weller	Aeron	WDCRF	-	-
1969-S550	2440510.94	1969 Oct 16 1030	Aerobee 150	-	NASA 04.256GG	0.000	GSFC	SS	-	GSFC/Smith,A	UV Astronomy	WDCRF	-	-
1969-S572	2440517.71	1969 Oct 23 0500	Aerobee 150	-	CRL A03.910-2	0.000	AFCRL	SS	-	AFCRL/Stair	Auroral IR	AFCRL	-	-
1969-S609	2440530.31	1969 Nov 4 1929	Aerobee 150 MI	20	NASA 04.136DS	0.000	GSFC	SS	-	NRL/Tousey,Purcell	Solar EUV	WDCRF	Not MI?	-
1969-S610	2440530.35	1969 Nov 4 2027	Aerobee 150 MI	20	NASA 04.283CS	0.000	GSFC	SS	-	ASE/Manko,Vaiana	Solar X	WDCRF	-	-
1969-S646	2440559.77	1969 Dec 4 0628	Aerobee 150	-	NASA 04.175UG	0.000	GSFC	SS	-	UWI/Bunner	XR Astronomy	USCOSPAR70	-	-
1969-S669	2440568.50	1969 Dec 13	Aerobee 150	-	NASA 04.252GG-UG	0.000	GSFC	SS	-	GSFC/Boggess,Evans	UV Astronomy	WDCRF	-	-
1969-S682	2440573.27	1969 Dec 17 1830	Aerobee 150 MI	20	NASA 04.167DS	0.000	GSFC	SS	-	AFCRL/Hinterregger	Solar	WDCRF	-	-
1970-S82	2440611.46	1970 Jan 24 2300	Aerobee 150	-	NRL NF3.193	0.000	NRL	SS	-	NRL/JHU/Feldman	Solar IR	WDCRF	-	-
1970-S83	2440611.60	1970 Jan 25 0220	Aerobee 150 MI	20	NASA 04.270UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astronomy	WDCRF	-	-
1970-S107	2440624.62	1970 Feb 7 0300	Aerobee 150	-	NASA 04.262GG	0.000	GSFC	SS	-	ASE/Gursky,Vaiana	XR Astronomy	WDCRF	-	-
1970-S108	2440624.73	1970 Feb 7 0531	Aerobee 150 MI	-	CRL AT3.726	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1970-S180	2440646.67	1970 Mar 1 0400	Aerobee 150	-	NRL NB3.237	0.000	NRL	SS	-	NRL/Fritz	XR Astron	WDCRF	ApJ177,629	-
1970-S213	2440653.28	1970 Mar 7 1836:15	Aerobee 150	-	NASA 04.317US	0.000	GSFC	SS	-	HCO/ICST/CULH/Reeves,Gab	Eclipse Solar UV	SRctCon2	ApJ169,595	-
1970-S221	2440653.29	1970 Mar 7 1852	Aerobee 150	-	NASA 04.284CS	0.000	GSFC	SS	-	ASE/Vaiana	Solar Eclipse	WDC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S224	2440653.29	1970 Mar 7 1900	Aerobee 150	-	NASA 04.137DS	0.000	GSFC	SS	-	NRL/Tousey	Solar Eclipse	WDCRF	-	-
1970-S227	2440653.31	1970 Mar 7 1930	Aerobee 150A	-	NASA 04.275DS	0.000	GSFC	SS	-	NRL/Koomen	Solar Eclipse	WDCRF	-	-
1970-S245	2440658.76	1970 Mar 13 0618	Aerobee 150	-	CRL A03.006-1	0.000	AFCRL	SS	-	AFCRL/Stair,O'Neill	Aeron/Ionos	AFCRL	-	-
1970-S246	2440659.65	1970 Mar 14 0334	Aerobee 150	-	NASA 04.328DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astronomy	WDCRF	-	-
1970-S266	2440671.70	1970 Mar 26 0444	Aerobee 150 MI	17	NASA 04.309UA	0.000	GSFC	SS	-	JHU/Fastie	Aeron/Auroral	WDCRF	AnnalesGeo28,489	-
1970-S297	2440690.02	1970 Apr 13 1234	Aerobee 150	-	NASA 04.321UA	0.000	GSFC	SS	-	UMI/Hays	Aeronomy	WDCRF	-	-
1970-S331	2440700.87	1970 Apr 24 0853	Aerobee 150	-	KP3.30	0.000	KPNO	SS	-	CAL/Novick	XR Astron	WDC	-	-
1970-S336	2440704.88	1970 Apr 28 0900	Aerobee 150	-	NASA 04.326NA	0.000	GSFC	SS	-	ARC/Farlow	Aeronomy/Dust	FC	SR12,369	-
1970-S340	2440708.16	1970 May 1 1553	Aerobee 150	-	NASA 04.327NA	0.000	GSFC	SS	-	ARC/Farlow	Aeronomy/Dust	FC	SR12,369	-
1970-S355	2440718.32	1970 May 11 1942	Aerobee 150	-	NASA 04.322UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	FC	SR13,235	-
1970-S368	2440731.83	1970 May 25 0800	Aerobee 150	-	NRL NB3.211	0.000	NRL	SS	-	NRL/Byram	XR Astron?	WDC	-	-
1970-S369	2440733.00	1970 May 26 1207	Aerobee 150	-	NASA 04.316NG	0.000	GSFC	SS	-	MSC/ASE/Kondo,Romans	UV Astronomy	USCOSPAR71	WDCRF	-
1970-S375	2440736.07	1970 May 29 1345	Aerobee 150	-	NASA 04.301UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	USCOSPAR71	WDCRF	-
1970-S384	2440740.25	1970 Jun 2 1800	Aerobee 150	-	NASA 04.302UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	ApJ167,L33	WDCRF	-
1970-S386	2440739.70	1970 Jun 2 0447	Aerobee 150	-	NASA 04.271UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astronomy	ApJ177,219	-	-
1970-S385	2440739.79	1970 Jun 2 0700	Aerobee 150	-	NASA 04.311UA	0.000	GSFC	SS	-	JHU/Moos	UV Astron	WDCRF	-	-
1970-S394	2440753.16	1970 Jun 15 1555	Aerobee 150	-	KP3.31	0.000	KPNO	SS	-	UCB/KPNO/Bowyer,Broadf.	Solar UV/Aeron	JGR78,1107	WDC	-
1970-S400	2440760.11	1970 Jun 22 1445	Aerobee 150	-	NASA 04.323US	0.000	GSFC	SS	-	UHI/Jefferies	Solar	WDCRF	-	-
1970-S414	2440769.75	1970 Jul 2 0601	Aerobee 150 MII	20	NASA 04.299UG	0.000	GSFC	SS	-	UWI/Bless,Code	UV Astronomy	WDCRF	-	-
1970-S450	2440794.69	1970 Jul 27 0437	Aerobee 150	-	NASA 04.259GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astronomy?	WDCRF	-	-
1970-S481	2440811.27	1970 Aug 12 1826	Aerobee 150	-	CRL A03.903-2	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar UV	AFCRL	-	-
1970-S484	2440812.29	1970 Aug 13 1902	Aerobee 150	-	NASA 04.200DS	0.000	GSFC	SS	-	NRL/Tousey,Brueckner	Solar EUV	WDCRF	SR12,1595	-
1970-S584	2440888.18	1970 Oct 28 1623	Aerobee 150	-	NASA 04.131UA	0.000	GSFC	SS	-	NCAR/Martell	Aeronomy	WDCRF	-	-
1970-S624	2440915.36	1970 Nov 24 2045	Aerobee 150	-	NASA 04.285CS	0.000	GSFC	SS	-	ASE/Vaiana	Solar	WDCRF	-	-
1970-S631	2440922.81	1970 Dec 2 0730	Aerobee 150	-	NASA 04.267UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astronomy	WDCRF	ApJ177,235	-
1971-S80	2440974.60	1971 Jan 23 0230	Aerobee 150	-	NASA 04.260GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astronomy	KPNO	-	-
1971-S86	2440976.98	1971 Jan 25 1130	Aerobee 150	-	NASA 04.318UA	0.000	GSFC	SS	-	JHU/Moos	UV Astron	JGR78,8033	ApJ169,L127	-
1971-S131	2441007.11	1971 Feb 24 1440	Aerobee 150	-	NASA 04.249NA	0.000	GSFC	SS	-	ARC/Farlow	Aeronomy/Dust	KPNO	SR12,369	-
1971-S139	2441011.99	1971 Mar 1 1140	Aerobee 150	-	KP3.32	0.000	KPNO	SS	-	KPNO/Wallace	UV Astron	WDC	KPNO	-
1971-S208	2441037.61	1971 Mar 27 0244	Aerobee 150	-	NRL NB3.245	0.000	NRL	SS	-	NRL/Byram	XR Astron?	KPNO	-	-
1971-S265	2441072.88	1971 May 1 0900	Aerobee 150	-	NASA 04.332GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astronomy	KPNO	-	-
1971-S296	2441090.81	1971 May 19 0730	Aerobee 150	-	NASA 04.303NG	0.000	GSFC	SS	-	MSC/Kondo	UV Astronomy	KPNO	-	-
1971-S317	2441099.90	1971 May 28 0940	Aerobee 150 MI	-	KP3.37	0.000	KPNO	SS	-	PRIN/Morton	UV Astron	WDC	KPNO	-
1971-S330	2441117.22	1971 Jun 14 1717	Aerobee 150	-	NASA 04.324US	0.000	GSFC	SS	-	UHI/Jefferies	Solar	WDCRF	-	-
1971-S335	2441125.31	1971 Jun 22 1920	Aerobee 150	-	NASA 04.237NA	0.000	GSFC	SS	-	MSC/Hudson	Aeronomy	WDCRF	-	-
1971-S352	2441133.22	1971 Jun 30 1710	Aerobee 150	-	NASA 04.234GS	0.000	GSFC	SS	-	GSFC/Behring	Solar	KPNO	-	-
1971-S526	2441240.60	1971 Oct 16 0231	Aerobee 150	-	CRL A03.910-1	0.000	AFCRL	SS	-	AFCRL/O'Neil	Aeron	AFCRL	-	-
1971-S555	2441265.29	1971 Nov 9 1900	Aerobee 150	-	CRL A03.002-4	0.000	AFCRL	SS	-	AFCRL/Higgins	Solar UV/Solar EUV	AFCRL	-	-
1971-S556	2441265.29	1971 Nov 9 1900	Aerobee 150	-	CRL A03.002-3	0.000	AFCRL	SS	-	AFCRL/Manson	Solar UV/Solar EUV	AFCRL	-	-
1971-S559	2441272.16	1971 Nov 16 1545	Aerobee 150	-	KP3.36	0.000	KPNO	SS	-	KPNO/Broadfoot	Aeron	WDC	KPNO	-
1972-S95	2441379.27	1972 Mar 2 1827	Aerobee 150	-	NRL NA3.218	0.000	NRL	SS	-	NRL/TUB/MPE/Elwert	Solar X	KPNO	SoPh57,345	-
1972-S120	2441393.82	1972 Mar 17 0747:35	Aerobee 150	-	NASA 04.320UA	0.000	GSFC	SS	-	JHU/Fastie,Feldman	Auroral UV	FC	WISR	-
1972-S144	2441407.63	1972 Mar 31 0310	Aerobee 150	-	NASA 04.329UA	0.000	GSFC	SS	-	UMI/Sharp	Aeronomy	FC	WISR	-
1972-S145	2441408.66	1972 Apr 1 0347	Aerobee 150	-	NRL NB3.254	0.000	NRL	SS	-	NRL/Byram	XR Astron?	KPNO	-	-
1972-S177	2441429.13	1972 Apr 21 1513	Aerobee 150	-	NASA 04.208UA	0.000	GSFC	SS	-	NCAR/Martell	Aeronomy	KPNO	-	-
1972-S246	2441490.33	1972 Jun 21 2001	Aerobee 150	-	NASA 04.304NA	0.000	GSFC	SS	-	MSC/Hudson	Aeronomy	KPNO	-	-
1973-S85	2441741.73	1973 Feb 28 0535	Aerobee 150	-	NASA 04.330UA	0.000	GSFC	SS	-	UMI/Hayes	Aeronomy	WDCRF	-	-
1973-S159	2441799.70	1973 Apr 27 0453	Aerobee 150	-	CRL A03.911-1	0.000	AFCRL	SS	-	AFCRL/LeBlanc	Aeron	AFCRL	-	-
1973-S173	2441826.19	1973 May 23 1630	Aerobee 150A	-	NASA 04.235UA	0.000	GSFC	SS	-	NCAR/Martell	Aeronomy	WDCRF	-	-
1973-S274	2441904.95	1973 Aug 10 1052	Aerobee 150	-	CRL A03.211-1	0.000	AFCRL	SS	-	AFCRL/Cohen	Plasma	AFCRL	-	-
1974-S429	2442228.65	1974 Jun 30 0331	Aerobee 150	-	NRL NC3.256	0.000	NRL	SS	-	NRL/Szuszczewicz	Plasma	JGR82,5073	-	-
1975-S96	2442482.39	1975 Mar 10 2119	Aerobee 150A MII	-	NASA 04.334UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	WDCRF	-	-
1975-S195	2442573.93	1975 Jun 10 1015	Aerobee 150	-	CRL A03.103-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1976-S185	2442917.21	1976 May 18 1700	Aerobee 150	-	GL A03.410-1	0.000	AFGL2	SS	-	AFCRL/Heroux,Bedo	Solar UV/X	AFCRL	-	-
1977-S226	2443365.17	1977 Aug 9 1610	Aerobee 150	-	GL A03.509-1	0.000	AFGL2	SS	-	AFCRL/Bedo	Solar UV	WDCRF	-	-
1978-S185	2443714.67	1978 Jul 25 0405	Aerobee 150	-	GL A03.604	0.000	AFGL2	SS	-	AFCRL/Bedo	Aeron	WDCRF	AFCRL	-
1979-S243	2444194.21	1979 Nov 16 1700	Aerobee 150	-	NASA 04.337CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1979-S247	2444219.55	1979 Dec 12 0105	Aerobee 150	-	NASA 04.338UE	0.000	GSFC	SS	-	UMI/Sharp	Magnetospheric	WDCRF	-	-
1981-S179	2444946.50	1981 Dec 8	Aerobee 150	-	NASA 04.339UE	0.000	GSFC	SS	-	UMI/Sharp	Magnetospheric	WISR	-	-
1983-S151	2445576.06	1983 Aug 29 1320	Aerobee 150	-	NASA 04.340UG	0.000	GSFC	SS	-	JHU/Feldman	Airglow	JGR95,4113	WISR	-
1983-S169	2445600.41	1983 Sep 22 2145	Aerobee 150	-	NASA 04.341UE	0.000	GSFC	SS	-	UMI/Sharp	Magnetospheric	WISR	-	-
1985-S25	2446083.12	1985 Jan 17 1500	Aerobee 150 MI	20	NASA 04.342UG	0.000	GSFC	SS	-	JHU/Feldman	Airglow	JGR92,239	Desind	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A147	2437453.50	1961 Jun 3	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A149	2437457.50	1961 Jun 7	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A235	2437616.50	1961 Nov 13	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A237	2437620.50	1961 Nov 17	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1962-A33	2437742.50	1962 Mar 19	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1962-A36	2437746.50	1962 Mar 23	Agate	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1962-M41	2438017.50	1962 Dec 19	Topaze VE111	-	C3	-	-	-	-	HMG	Agate	-	-	20	-	-
1963-M22	2438110.50	1963 Mar 22	Topaze VE111	-	C4	-	-	-	-	HMG	Agate	-	-	80?	-	-
1963-M23	2438116.50	1963 Mar 28	Topaze VE111	-	C7	-	-	-	-	HMG	Agate	-	-	80?	-	-
1963-A77	2438167.50	1963 May 18	Agate	-	-	-	-	-	-	HMG	Agate	-	-	20?	-	-
1963-A81	2438170.50	1963 May 21	Agate	-	-	-	-	-	-	HMG	Agate	-	-	20?	-	-
1963-M34	2438201.50	1963 Jun 21	Topaze VE111	-	C9	-	-	-	-	HMG	Agate	-	-	80?	-	-
1963-M35	2438207.50	1963 Jun 27	Topaze VE111	-	C8	-	-	-	-	HMG	Agate	-	-	80?	-	-
1963-M48	2438326.50	1963 Oct 24	Topaze VE111	-	C10	-	-	-	-	HMG	Agate	-	-	80?	-	-
1963-A171	2438352.50	1963 Nov 19	Agate	-	R	-	-	-	-	CERES	-	-	-	0?	-	-
1963-A177	2438361.50	1963 Nov 28	Agate	-	R	-	-	-	-	CERES	-	-	-	20?	-	-
1963-S613	2438384.50	1963 Dec 21	Topaze VE111L	-	L1	-	-	-	-	HMG	Bacchus	-	-	74	-	-
1964-A31	2438453.50	1964 Feb 28	Agate	-	R	-	-	-	-	CERES	-	-	-	20?	-	-
1964-S138	2438465.50	1964 Mar 11	Topaze VE111L	-	L2	-	-	-	-	HMG	Bacchus	-	-	110	-	-
1964-A56	2438505.50	1964 Apr 20	Agate	-	R	-	-	-	-	CERES	-	-	-	20?	-	-
1964-M14	2438550.50	1964 Jun 4	Topaze VE111	-	Ci1 (11)	MSBS test	-	-	-	HMG	Agate	-	-	1?	-	-
1964-S286	2438556.73	1964 Jun 10 0530	Rubis	-	R1	A-1 capsule	-	-	-	HMG	Bacchus	-	-	1800	-	-
1964-S293	2438558.71	1964 Jun 12 0503	Rubis	-	R2	A-1 capsule	-	-	-	HMG	Bacchus	-	-	1800	-	-
1964-M32	2438680.50	1964 Oct 12	Rubis	-	R3	A-1 capsule	-	-	-	HMG	Bacchus	-	-	60?	-	-
1964-M24	2438689.50	1964 Oct 21	Topaze VE111	-	Ci2 (12)	MSBS test	-	-	-	HMG	Agate	-	-	49	-	-
1964-M30	2438740.50	1964 Dec 11	Topaze VE111	-	Ci3 (13)	MSBS test	-	-	-	HMG	Agate	-	-	80?	-	-
1964-M31	2438744.50	1964 Dec 15	Topaze VE111	-	Ci4 (14)	MSBS test	-	-	-	HMG	Agate	-	-	80?	-	-
1964-M33	2438747.50	1964 Dec 18	Rubis	-	R4	A-1 capsule	-	-	-	HMG	Bacchus	-	-	60?	-	-
1965-S66	2438792.50	1965 Feb 1	MD-620	-	-	Tir 1 (Dummy St1)	-	-	-	CERES	-	-	-	100?	-	-
1965-S294	2438898.50	1965 May 18	Topaze VE111L	-	LG1 (5)	-	-	-	-	HMG	Agate	-	-	100?	-	-
1965-S301	2438901.50	1965 May 21	Topaze VE111L	-	LG2 (6)	-	-	-	-	HMG	Agate	-	-	100?	-	-
1965-S324	2438911.50	1965 May 31	Rubis	-	R5	A-1 capsule	-	-	-	HMG	Bacchus	-	-	2000	-	-
1965-S339	2438914.50	1965 Jun 3	Rubis	-	R6	A-1 capsule	-	-	-	HMG	Bacchus	-	-	2000	-	-
1965-S342	2438916.74	1965 Jun 5 0540	Rubis	-	R7	Rubis 01/D-1	-	-	-	HMG	Bacchus	-	-	2020	-	-
1965-S531	2439033.68	1965 Sep 30 0420	Rubis	-	R8	Rubis 02	-	-	-	HMG	Bacchus	-	-	1760	-	-
1965-S695	2439117.50	1965 Dec 23	MD-620	2	-	Bietage 1	-	-	-	CERES	-	-	-	100?	-	-
1966-S168	2439200.50	1966 Mar 16	MD-620	2	-	Bietage 2	-	-	-	CERES	-	-	-	100?	-	-
1966-S233	2439238.33	1966 Apr 22 2000	Rubis	-	R9	Rubis 03/MPE Ba-17	-	-	-	HMG	Bacchus	-	-	2035	-	-
1966-S06	2439125.50	1966	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1966-S07	2439125.50	1966	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1966-S08	2439125.50	1966	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1967-S336	2439677.09	1967 Jul 5 1407	Rubis	-	R10	Rubis 04	-	-	-	CEL	-	-	-	1560	-	-
1967-S01	2439490.50	1967?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1967-S02	2439490.50	1967?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1967-S03	2439490.50	1967?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1967-S04	2439490.50	1967?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1967-S05	2439490.50	1967?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1968-S01	2439855.50	1968?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1968-S02	2439855.50	1968?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1968-S03	2439855.50	1968?	MD-620	-	-	-	-	-	-	CERES	-	-	-	100?	-	-
1968-S04	2439855.50	1968?	MD-620	-	-	-	-	-	-	CEM	-	-	-	100?	-	-
1968-S515	2440129.50	1968 Sep 30	MD-620	-	-	-	-	-	-	CEM	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A147	2437453.50	1961 Jun 3	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1961-A149	2437457.50	1961 Jun 7	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1961-A235	2437616.50	1961 Nov 13	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1961-A237	2437620.50	1961 Nov 17	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1962-A33	2437742.50	1962 Mar 19	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1962-A36	2437746.50	1962 Mar 23	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1962-M41	2438017.50	1962 Dec 19	Topaze VE111	-	C3	0.000	ONERA	TS	-	-	Test	AASH27-295	Tiziou	-
1963-M22	2438110.50	1963 Mar 22	Topaze VE111	-	C4	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-M23	2438116.50	1963 Mar 28	Topaze VE111	-	C7	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-A77	2438167.50	1963 May 18	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-A81	2438170.50	1963 May 21	Agate	-	-	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-M34	2438201.50	1963 Jun 21	Topaze VE111	-	C9	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-M35	2438207.50	1963 Jun 27	Topaze VE111	-	C8	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-M48	2438326.50	1963 Oct 24	Topaze VE111	-	C10	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-A171	2438352.50	1963 Nov 19	Agate	-	R	0.000	ONERA	TF	U	-	Test	Tiziou	-	-
1963-A177	2438361.50	1963 Nov 28	Agate	-	R	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1963-S613	2438384.50	1963 Dec 21	Topaze VE111L	-	L1	0.000	ONERA	TS	-	-	Test	AASH27-295	Tiziou	-
1964-A31	2438453.50	1964 Feb 28	Agate	-	R	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1964-S138	2438465.50	1964 Mar 11	Topaze VE111L	-	L2	0.000	ONERA	TS	-	-	Test	AASH27-295	Tiziou	-
1964-A56	2438505.50	1964 Apr 20	Agate	-	R	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1964-M14	2438550.50	1964 Jun 4	Topaze VE111	-	Ci1 (11)	0.000	ONERA	TF	U	-	Test	AASH27-295	Tiziou	-
1964-S286	2438556.73	1964 Jun 10 0530	Rubis	-	R1	0.000	ONERA	HS	-	-	Test	IAC-05.E4.3.02	Tiziou	-
1964-S293	2438558.71	1964 Jun 12 0503	Rubis	-	R2	0.000	ONERA	HS	-	-	Test	IAC-05.E4.3.02	Tiziou	-
1964-M32	2438680.50	1964 Oct 12	Rubis	-	R3	0.000	ONERA	TF	U	-	Test	IAC-05.E4.3.02	Tiziou	-
1964-M24	2438689.50	1964 Oct 21	Topaze VE111	-	Ci2 (12)	0.000	ONERA	TS	-	-	Test	AASH27-295	Tiziou	-
1964-M30	2438740.50	1964 Dec 11	Topaze VE111	-	Ci3 (13)	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1964-M31	2438744.50	1964 Dec 15	Topaze VE111	-	Ci4 (14)	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1964-M33	2438747.50	1964 Dec 18	Rubis	-	R4	0.000	ONERA	TF	U	-	Test	Tiziou	-	-
1965-S66	2438792.50	1965 Feb 1	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1965-S294	2438898.50	1965 May 18	Topaze VE111L	-	LG1 (5)	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1965-S301	2438901.50	1965 May 21	Topaze VE111L	-	LG2 (6)	0.000	ONERA	TS	-	-	Test	Tiziou	-	-
1965-S324	2438911.50	1965 May 31	Rubis	-	R5	0.000	ONERA	HS	-	-	Test/Ionos?	Tiziou	-	-
1965-S339	2438914.50	1965 Jun 3	Rubis	-	R6	0.000	ONERA	HS	-	-	Test/Ionos?	Tiziou	-	-
1965-S342	2438916.74	1965 Jun 5 0540	Rubis	-	R7	0.000	CNES	HS	-	CNES/Guinard	Test	IAC-05.E4.3.02	Tiziou	-
1965-S531	2439033.68	1965 Sep 30 0420	Rubis	-	R8	0.000	CNES	HS	-	OPM/CNRS/Crifo,Stein.	RF Astron/Particles	WDCRF	Tiziou	-
1965-S695	2439117.50	1965 Dec 23	MD-620	2	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1966-S168	2439200.50	1966 Mar 16	MD-620	2	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1966-S233	2439238.33	1966 Apr 22 2000	Rubis	-	R9	0.000	CNES	HS	-	MPE/Lutz	Plasma/Ionos/Ba	AnnalesGeo26,845	Tiziou	-
1966-S06	2439125.50	1966	MD-620	-	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1966-S07	2439125.50	1966	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1966-S08	2439125.50	1966	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1967-S336	2439677.09	1967 Jul 5 1407	Rubis	-	R10	0.000	CNES	HS	-	OPM/Steinberg	RF Astron	IAC-05.E4.3.02	Tiziou	-
1967-S01	2439490.50	1967?	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1967-S02	2439490.50	1967?	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1967-S03	2439490.50	1967?	MD-620	-	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1967-S04	2439490.50	1967?	MD-620	-	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1967-S05	2439490.50	1967?	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1968-S01	2439855.50	1968?	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1968-S02	2439855.50	1968?	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-
1968-S03	2439855.50	1968?	MD-620	-	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1968-S04	2439855.50	1968?	MD-620	-	-	0.000	DASST	MF	U	-	Test	Serra	-	-
1968-S515	2440129.50	1968 Sep 30	MD-620	-	-	0.000	DASST	MS	-	-	Test	Serra	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-S40	2453925.73	2006 Jul 9 0533	Agni 3	-	01	-	-	-	-	CHAN	IC4	-	-	100?	-	-
2007-S22	2454202.72	2007 Apr 12 0522	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	400	-	-
2008-S19	2454593.68	2008 May 7 0426	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	350	-	-
2010-S15	2455234.72	2010 Feb 7 0520	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	350	-	-
2012-S18	2456036.61	2012 Apr 19 0237	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2012-S57	2456191.33	2012 Sep 20 1950	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	500	-	-
2013-S63	2456550.63	2013 Sep 15 0313	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2013-S106	2456649.98	2013 Dec 23 1128	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	350	-	-
2015-S06	2457053.61	2015 Jan 31 0236	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2015-S26	2457128.68	2015 Apr 16 0422	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	350	-	Bay Beng.
2016-S68	2457748.73	2016 Dec 26 0535	Agni 5	-	-	-	Reduced range test	-	-	CHAN	IC4	-	-	800	2500	-
2017-S38	2457870.65	2017 Apr 27 0342	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	500	-	-
2018-S01	2458136.68	2018 Jan 18 0423	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2018-S35	2458272.68	2018 Jun 3 0418	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2018-S78	2458462.83	2018 Dec 10 0800	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2019-S78	2458818.08	2019 Nov 30 1350	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	100	-	-
2021-S74	2459515.10	2021 Oct 27 1420	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2022-S129	2459906.65	2022 Nov 23 0342	Agni 3	-	-	-	-	-	-	CHAN	IC4	-	-	350	-	-
2022-S132	2459929.01	2022 Dec 15 1215?	Agni 5	-	-	-	-	-	-	CHAN	IC4	-	-	800	-	-
2024-S07	2460380.50	2024 Mar 11	Agni 5	-	-	Mission Divyastra	MIRV test	-	-	CHAN	IC4	-	-	800	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-S40	2453925.73	2006 Jul 9 0533	Agni 3	-	01	0.000	IDRDL	MF	U	-	Test	Wire	-	-
2007-S22	2454202.72	2007 Apr 12 0522	Agni 3	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2008-S19	2454593.68	2008 May 7 0426	Agni 3	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2010-S15	2455234.72	2010 Feb 7 0520	Agni 3	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2012-S18	2456036.61	2012 Apr 19 0237	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2012-S57	2456191.33	2012 Sep 20 1950	Agni 3	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2013-S63	2456550.63	2013 Sep 15 0313	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	ndtv.com	-	-
2013-S106	2456649.98	2013 Dec 23 1128	Agni 3	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2015-S06	2457053.61	2015 Jan 31 0236	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	zeenews.com	-	-
2015-S26	2457128.68	2015 Apr 16 0422	Agni 3	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2016-S68	2457748.73	2016 Dec 26 0535	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2017-S38	2457870.65	2017 Apr 27 0342	Agni 3	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2018-S01	2458136.68	2018 Jan 18 0423	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2018-S35	2458272.68	2018 Jun 3 0418	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2018-S78	2458462.83	2018 Dec 10 0800	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2019-S78	2458818.08	2019 Nov 30 1350	Agni 3	-	-	0.000	IDRDL	MF	U	-	Test	Wire	-	-
2021-S74	2459515.10	2021 Oct 27 1420	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2022-S129	2459906.65	2022 Nov 23 0342	Agni 3	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2022-S132	2459929.01	2022 Dec 15 1215?	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2024-S07	2460380.50	2024 Mar 11	Agni 5	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-M15	2437866.50	1962 Jul 21	Al Kahir	-	-	-	-	-	-	JHAM	-	-	-	50?	-	-
1962-M16	2437866.50	1962 Jul 21	Al Kahir	-	-	-	-	-	-	JHAM	-	-	-	50?	-	-
1963-M25	2438149.50	1963 May?	Al Kahir	-	-	Meteo	-	-	-	JHAM	-	-	-	50?	-	-
1971-A118	2441217.50	1971 Sep 23	Al Kahir	-	-	-	-	-	-	JHAM	-	-	-	3?	-	-
1973-A84	2441961.50	1973 Oct 6?	Al Kahir	-	-	Al Tin	-	-	-	JHAM	-	-	-	3?	-	-
1973-A85	2441961.50	1973 Oct 6?	Al Kahir	-	-	Al Tin	-	-	-	JHAM	-	-	-	3?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-M15	2437866.50	1962 Jul 21	Al Kahir	-	-	0.000	EGAO	SS	-	EGAO/	Test	AASH25-201	-	-
1962-M16	2437866.50	1962 Jul 21	Al Kahir	-	-	0.000	EGAO	SS	-	EGAO/	Test	AASH25-201	-	-
1963-M25	2438149.50	1963 May?	Al Kahir	-	-	0.000	EGAO	SS	-	EGAO/	Test	AASH25-201	-	-
1971-A118	2441217.50	1971 Sep 23	Al Kahir	-	-	0.000	EGAO	SF	U	EGAO/	Test	JanesIR	-	-
1973-A84	2441961.50	1973 Oct 6?	Al Kahir	-	-	0.000	EGAO	SF	U	EGAO/	Test	nti.org	-	-
1973-A85	2441961.50	1973 Oct 6?	Al Kahir	-	-	0.000	EGAO	SF	U	EGAO/	Test	nti.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-M02	2441713.50	1973 Feb	Alfa	-	001	[Spurious?]	-	-	-	SDQ	-	-	-	50?	-	-
1974-M04	2442320.50	1974 Q4	Alfa	-	002	[Spurious?]	-	-	-	SDQ	-	-	-	50?	-	-
1975-M01	2442506.50	1975 Apr 4	Alfa	-	003	[Spurious?]	-	-	-	SDQ	-	-	-	50?	-	-
1975-S355	2442663.50	1975 Sep 8	Alfa	-	1?	-	-	-	-	SDQ	-	-	-	110	-	-
1975-S356	2442708.50	1975 Oct 23	Alfa	-	2?	-	-	-	-	SDQ	-	-	-	100?	-	-
1976-S354	2442875.12	1976 Apr 6 1446	Alfa	-	3?	-	-	-	-	SDQ	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-M02	2441713.50	1973 Feb	Alfa	-	001	0.000	I	MS	-	-	Test	Serra	-	-
1974-M04	2442320.50	1974 Q4	Alfa	-	002	0.000	I	MS	-	-	Test	Serra	-	-
1975-M01	2442506.50	1975 Apr 4	Alfa	-	003	0.000	I	MS	-	-	Test	Serra	-	-
1975-S355	2442663.50	1975 Sep 8	Alfa	-	1?	0.000	I	MS	-	-	Test	Ulivi	-	-
1975-S356	2442708.50	1975 Oct 23	Alfa	-	2?	0.000	I	MS	-	-	Test	Ulivi	-	-
1976-S354	2442875.12	1976 Apr 6 1446	Alfa	-	3?	0.000	I	MS	-	-	Test	Ulivi	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-F08	2459460.58	2021 Sep 3 0159:00	Firefly Alpha	-	FLTA001	Dream	-	-	-	VSFB	SLC2W	-	-	15?	-	-
2022-122	2459853.79	2022 Oct 1 0701:00	Firefly Alpha	-	FLTA002	To The Black	-	-	-	VSFB	SLC2W	-	-	-	-	-
2023-142	2460202.60	2023 Sep 15 0228	Firefly Alpha	-	FLTA003	VICTUS NOX	-	-	-	VSFB	SLC2W	-	-	-	-	-
2023-202	2460301.23	2023 Dec 22 1732:30	Firefly Alpha	-	FLTA004	Fly the Lightning	Tantrum	ESA Tech Demo	-	VSFB	SLC2W	-	-	-	-	-
2024-125	2460495.67	2024 Jul 4 0404	Firefly Alpha	-	FLTA005	Noise of Summer	VCLS Demo-2FB	ELANA 43	-	VSFB	SLC2W	-	-	-	-	-
2025-U01	2460795.07	2025 Apr 29 1337:47?	Firefly Alpha	-	FLTA006	Message in a Booster	LM-400 Tech Demo	-	-	VSFB	SLC2W	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-F08	2459460.58	2021 Sep 3 0159:00	Firefly Alpha	-	FLTA001	0.056	FFLY	OF	S1P	C	Sat LEO 0	Wire	-	Elec connector failed, engine ou
2022-122	2459853.79	2022 Oct 1 0701:00	Firefly Alpha	-	FLTA002	0.019	FFLY	OS75	S2R	C	Sat LEO 0	spaceflightnow	-	Stage 2 faulty restart
2023-142	2460202.60	2023 Sep 15 0228	Firefly Alpha	-	FLTA003	0.100	FFLY	OS	-	C	Sat SSO D	nasaspaceflight	-	-
2023-202	2460301.23	2023 Dec 22 1732:30	Firefly Alpha	-	FLTA004	0.250	FFLY	OF40	S2R	C	Sat LEO 0	nasaspaceflight	-	St2 failed to restart
2024-125	2460495.67	2024 Jul 4 0404	Firefly Alpha	-	FLTA005	0.053	FFLY	OS	-	C	Sat LEO 0	nasaspaceflight	-	-
2025-U01	2460795.07	2025 Apr 29 1337:47?	Firefly Alpha	-	FLTA006	1.000	FFLY	OF	S1S	C	Sat LEO 0	nasaspaceflight	-	S2 nozzle hit at sep

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-A126	2458634.50	2019 May 31	SPEAR-HRT	-	-	Unknown config	-	-	-	SPAM	-	-	-	30	-	-
2019-S85	2458635.50	2019 Jun 1	SPEAR-HRT	-	-	Unknown config	-	-	-	SPAM	-	-	-	80	-	-
2021-A27	2459335.50	2021 May 1	SPEAR-HRT	-	-	Flight 1	-	-	-	SPAM	-	-	-	1	-	-
2021-S92	2459335.50	2021 May 1	SPEAR-HRT	-	-	Flight 2	-	-	-	SPAM	-	-	-	84	-	-
2022-S121	2459687.50	2022 Apr 18	SPEAR-HRT	-	-	Flight 3	-	-	-	SPAM	-	-	-	90	-	-
2022-S102	2459846.50	2022 Sep 24	Vrbec-Banovic	-	-	Two stage P to O	-	-	-	BROCK	-	-	-	100?	-	-
2022-S89	2459854.23	2022 Oct 1 1730:58	MESOS	-	-	MESOS	-	-	-	BROCK	LP1	-	-	89	-	-
2023-M05	2460052.88	2023 Apr 18 0905	N2ORTH	-	-	N2ORTH Flight 1	DLR STERN	-	-	ESR	MAN	-	-	64	-	-
2023-A11	2460059.01	2023 Apr 24 1210:00	N2ORTH	-	-	N2ORTH Flight 2	DLR STERN	-	-	ESR	MAN	-	-	1?	-	-
2024-A20	2460583.50	2024 Oct	Meraki	-	-	Meraki 1	-	-	-	MTWHITE	-	-	-	1?	-	-
2025-S18	2460784.29	2025 Apr 18 1903	Meraki	-	-	Meraki 2	-	-	-	MTWHITE	-	-	-	122	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-A126	2458634.50	2019 May 31	SPEAR-HRT	-	-	0.000	USMA	SF	U	USMA/	Test	Wire	-	-
2019-S85	2458635.50	2019 Jun 1	SPEAR-HRT	-	-	0.000	USMA	SS	-	USMA/	Test	Wire	-	-
2021-A27	2459335.50	2021 May 1	SPEAR-HRT	-	-	0.000	USMA	SF	U	USMA/	Test	Wire	-	-
2021-S92	2459335.50	2021 May 1	SPEAR-HRT	-	-	0.000	USMA	SS	-	USMA/	Test	Wire	-	-
2022-S121	2459687.50	2022 Apr 18	SPEAR-HRT	-	-	0.000	USMA	SS	-	USMA/	Test	Wire	-	-
2022-S102	2459846.50	2022 Sep 24	Vrbec-Banovic	-	-	0.000	VRBEC	SS	-	VRBEC/	Test	rocketryforum.com	-	-
2022-S89	2459854.23	2022 Oct 1 1730:58	MESOS	-	-	0.000	MESOS	SS	-	MESOS/	Test	rocketryforum.com	-	-
2023-M05	2460052.88	2023 Apr 18 0905	N2ORTH	-	-	0.000	DLR/HYEND	SS	-	HYEND/	Test	hyend.de	-	-
2023-A11	2460059.01	2023 Apr 24 1210:00	N2ORTH	-	-	0.000	DLR/HYEND	SF	U	HYEND/	Test	hyend.de	-	-
2024-A20	2460583.50	2024 Oct	Meraki	-	-	0.000	NZRA	SF	-	NZRA/	Test	Wire	-	-
2025-S18	2460784.29	2025 Apr 18 1903	Meraki	-	-	0.000	NZRA	SS	-	NZRA/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-F03	2455068.83	2009 Aug 25 0800:33	Naro-1	-	74501	STSAT-2A	STSat-2	-	-	NARO	LC1	-	-	387	-	-
2010-F02	2455357.83	2010 Jun 10 0801	Naro-1	-	74502	STSAT-2B	STSat-2B	-	-	NARO	LC1	-	-	70?	-	-
2013-003	2456322.79	2013 Jan 30 0700:00	Naro-1	-	74503	STSAT-2C	STSat-2C	-	-	NARO	LC1	-	-	1520	-	-
2014-S37	2456848.00	2014 Jul 9 1200:00	Angara-1.2PP	-	71601 /82501	Maketa	A2PP 2A2S.PN	-	-	GIK-1	LC35/1	-	-	189	-	Kura
2014-085	2457014.75	2014 Dec 23 0557:00	Angara A5	-	71751 (1LM)/88801	IPM	5A4PP	-	-	GIK-1	LC35/1	-	-	39170	-	-
2020-097	2459197.74	2020 Dec 14 0550:00	Angara A5	-	71752 (2LM)/88802	IPM	5A4PP?	-	-	GIK-1	LC35/1	-	-	37630	-	-
2021-133	2459576.29	2021 Dec 27 1900:00	Angara A5/Persei	-	71753 (3L)/1L	IPN	-	-	-	GIK-1	LC35/1	-	-	201	-	-
2022-044	2459699.33	2022 Apr 29 1955:22	Angara-1.2	-	71602?/1L	Kosmos-2555	EO MKA-2	-	-	GIK-1	LC35/1	-	-	293	-	-
2022-135	2459868.33	2022 Oct 15 1955:15	Angara-1.2	-	71603?/2L	Kosmos-2560	EO MKA-3	-	-	GIK-1	LC35/1	-	-	-	-	-
2024-069	2460411.88	2024 Apr 11 0900	Angara A5/Orion	-	72901/1TLI	GMM KA	GMM KA	-	-	VOST	PL1A	-	-	-	-	-
2024-166	2460570.79	2024 Sep 17 0701:00	Angara-1.2	-	71604/3L?	Kosmos-2577/2578	OO MKA-1/2	-	-	GIK-1	LC35/1	-	-	-	-	-
2025-054	2460750.95	2025 Mar 16 1050	Angara-1.2	-	71605/4L	Kosmos-2585/86/87	Rodnik Blok 17	-	-	GIK-1	LC35/1	-	-	-	-	-
2025-131	2460845.64	2025 Jun 19 0320?	Angara A5	-	71754 (4L)/88803?	Kosmos-2589	14F166A No. 1	-	-	GIK-1	LC35/1	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-F03	2455068.83	2009 Aug 25 0800:33	Naro-1	-	74501	0.100	KARI	OF	FF	G	Sat LEO O	Wire	-	No fairing sep
2010-F02	2455357.83	2010 Jun 10 0801	Naro-1	-	74502	0.100	KARI	OF	AD	G	Sat LEO O	Wire	-	-
2013-003	2456322.79	2013 Jan 30 0700:00	Naro-1	-	74503	0.100	KARI	OS	-	G	Sat LEO O	Wire	-	-
2014-S37	2456848.00	2014 Jul 9 1200:00	Angara-1.2PP	-	71601 /82501	0.000	KHRU	SS	-	KHRU/	Test	zenite.nu/orbita	-	-
2014-085	2457014.75	2014 Dec 23 0557:00	Angara A5	-	71751 (1LM)/88801	4.600	KHRU	OS	-	G	Sat GEO O 1	Wire	-	-
2020-097	2459197.74	2020 Dec 14 0550:00	Angara A5	-	71752 (2LM)/88802	5.000	KHRU	OS	-	G	Sat GEO O 1	Wire	-	-
2021-133	2459576.29	2021 Dec 27 1900:00	Angara A5/Persei	-	71753 (3L)/1L	20.000	KHRU	OF40	S3R	G	Sat GEO O	Wire	-	Persei ft restart
2022-044	2459699.33	2022 Apr 29 1955:22	Angara-1.2	-	71602?/1L	0.520	KHRU	OS	-	G	Sat SSO SD	Wire	-	-
2022-135	2459868.33	2022 Oct 15 1955:15	Angara-1.2	-	71603?/2L	0.520	KHRU	OS	-	G	Sat SSO SD	Wire	-	-
2024-069	2460411.88	2024 Apr 11 0900	Angara A5/Orion	-	72901/1TLI	20.008	KHRU	OS	-	G	Sat GEO O	Wire	-	-
2024-166	2460570.79	2024 Sep 17 0701:00	Angara-1.2	-	71604/3L?	0.520	KHRU	OS	-	G	Sat SSO SD	Wire	-	-
2025-054	2460750.95	2025 Mar 16 1050	Angara-1.2	-	71605/4L	0.660	KHRU	OS	-	G	Sat LEO SD	Wire	-	-
2025-131	2460845.64	2025 Jun 19 0320?	Angara A5	-	71754 (4L)/88803?	3.000	KHRU	OS	-	G	Sat GEO O 1	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A165	2438341.17	1963 Nov 7 1600:01	Apollo LES	-	PA-1	-	-	-	-	WS	LC36	-	-	2	-	-
1965-A90	2438941.04	1965 Jun 29 1300:01	Apollo LES	-	PA-2	-	-	-	-	WS	LC36	-	-	2	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A165	2438341.17	1963 Nov 7 1600:01	Apollo LES	-	PA-1	0.000	MSC	TS	-	-	Test	SP-4205	-	-
1965-A90	2438941.04	1965 Jun 29 1300:01	Apollo LES	-	PA-2	0.000	MSC	TS	-	-	Test	SP-4205	CR-97018	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A173	2436512.21	1958 Nov 4 1700	Arcas	-	1	Test	-	-	-	WS	-	-	-	20?	-	-
1958-A174	2436536.24	1958 Nov 28 1745	Arcas	-	2	Test	-	-	-	WS	-	-	-	22	-	-
1958-A175	2436546.12	1958 Dec 8 1500	Arcas	-	3	Test	-	-	-	WS	-	-	-	28	-	-
1959-W02	2436592.14	1959 Jan 23 1515	Arcas	-	4	Test	-	-	-	WS	-	-	-	54	-	-
1959-W20	2436599.20	1959 Jan 30 1655	Arcas	-	5	Test	-	-	-	WS	-	-	-	52	-	-
1959-W18	2436724.50	1959 Jun 5	Arcas	-	6	Test	-	-	-	WS	-	-	-	66	-	-
1959-M41	2436742.50	1959 Jun 23	Arcas	-	7	Test	-	-	-	WS	-	-	-	76	-	-
1959-A121	2436780.50	1959 Jul 31	Arcas	-	-	-	-	-	-	WI	-	-	-	10?	-	-
1959-A122	2436780.50	1959 Jul 31	Arcas	-	-	-	-	-	-	WI	-	-	-	10?	-	-
1959-W04	2436787.50	1959 Aug 7	Arcas	-	-	-	-	-	-	WI	-	-	-	55	-	-
1959-W19	2436787.50	1959 Aug 7	Arcas	-	-	Robin	-	-	-	EGL	-	-	-	80	-	-
1959-W01	2436568.50	1959	Arcas	-	(1 of 25)	-	-	-	-	CC	LC43	-	-	61	-	-
1959-W13	2436869.50	1959 Oct 28	Arcas	-	-	-	-	-	-	PM	-	-	-	51	-	-
1959-W14	2436876.50	1959 Nov 4	Arcas	-	-	-	-	-	-	PM	-	-	-	59	-	-
1959-W15	2436882.50	1959 Nov 10	Arcas	-	-	-	-	-	-	PM	-	-	-	61	-	-
1959-W16	2436888.50	1959 Nov 16	Arcas	-	-	-	-	-	-	PM	-	-	-	58	-	-
1960-W69	2436951.50	1960 Jan 18	Arcas	-	-	-	-	-	-	PM	-	-	-	59	-	-
1960-W67	2436955.50	1960 Jan 22	Arcas	-	-	-	-	-	-	PM	-	-	-	57	-	-
1960-A316	2436965.50	1960 Feb 1	Arcas	-	-	ONR package	-	-	-	PM	-	-	-	46	-	-
1960-W70	2436967.50	1960 Feb 3	Arcas	-	-	-	-	-	-	PM	-	-	-	51	-	-
1960-W71	2436968.50	1960 Feb 4	Arcas	-	-	-	-	-	-	PM	-	-	-	56	-	-
1960-A317	2436969.50	1960 Feb 5	Arcas	-	-	ONR package	-	-	-	PM	-	-	-	45	-	-
1960-W72	2436972.50	1960 Feb 8	Arcas	-	-	-	-	-	-	PM	-	-	-	55	-	-
1960-W01	2436979.50	1960 Feb 15	Arcas	-	-	-	-	-	-	PM	-	-	-	61	-	-
1960-W73	2436980.50	1960 Feb 16	Arcas	-	-	-	-	-	-	PM	-	-	-	50	-	-
1960-W02	2436981.50	1960 Feb 17	Arcas	-	-	-	-	-	-	PM	-	-	-	61	-	-
1960-W03	2436995.50	1960 Mar 2	Arcas	-	-	-	-	-	-	PM	-	-	-	65	-	-
1960-A321	2437044.50	1960 Apr 20	Arcas	-	253 Z2.4XZ	-	-	-	T-AGM-12	ETR	LP2	-	-	40?	-	-
1960-W04	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W05	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W06	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W07	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W08	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W09	2437115.50	1960 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-A322	2437134.50	1960 Jul 19	Arcas	-	337 A210.4GA	-	-	-	-	WI	-	-	-	20?	-	-
1960-W10	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W11	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W12	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W13	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W14	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W15	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W16	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W17	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W18	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W19	2437146.50	1960 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-A323	2437156.50	1960 Aug 10	Arcas	-	359 N62.4MU	-	-	-	-	PM	-	-	-	20?	-	-
1960-W20	2437177.50	1960 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W21	2437177.50	1960 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W22	2437177.50	1960 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W23	2437177.50	1960 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-A324	2437193.50	1960 Sep 16	Arcas	-	402 A250AA	-	-	-	-	WS	-	-	-	20?	-	-
1960-M34	2437225.50	1960 Oct 18	Arcas	-	459 A275.AA	-	-	-	-	WS	-	-	-	77	-	-
1960-A325	2437226.50	1960 Oct 19	Arcas	-	460 A276.4AA	-	-	-	-	WS	-	-	-	38	-	-
1960-M35	2437227.50	1960 Oct 20	Arcas	-	461 A277.4AA	-	-	-	-	WS	-	-	-	62	-	-
1960-W29	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W30	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W31	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W32	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W33	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W34	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W35	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W36	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W37	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-W38	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1960-A254	2437238.50	1960 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1960-W74	2437238.50	1960 Nov	Arcas	-	-	Robin	-	-	-	HADC	-	-	-	50?	-	-
1960-M36	2437241.50	1960 Nov 3	Arcas	-	-	-	-	-	-	KAU	-	-	-	65?	-	-
1960-M41	2437266.50	1960 Nov 28	Arcas	-	-	Robin	-	-	-	EGL	-	-	-	60?	-	-
1960-M37	2437238.50	1960 Nov	Arcas	-	-	Aerialrecovery	-	-	-	KAU	-	-	-	65?	-	-
1961-W01	2437299.50	1961 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1961-W02	2437299.50	1961 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1961-A01	2437299.50	1961 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-S449	2437317.50	1961 Jan 18	Arcas	-	668 A363.4AA	-	-	-	-	WS	-	-	-	90	-	-
1961-M84	2437318.50	1961 Jan 19	Arcas	-	666 A361.4AA	-	-	-	-	WS	-	-	-	75	-	-
1961-S450	2437319.50	1961 Jan 20	Arcas	-	667 A362.4AA	-	-	-	-	WS	-	-	-	88	-	-
1961-W04	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1961-A30	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A31	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A32	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A33	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A34	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A35	2437330.50	1961 Feb	Arcas	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-S451	2437332.50	1961 Feb 2	Arcas	-	690 A375.4AA	-	-	-	-	WS	-	-	-	87	-	-
1961-M85	2437340.50	1961 Feb 10	Arcas	-	689 A374.4AA	-	-	-	-	WS	-	-	-	68	-	-
1961-W14	2437429.48	1961 May 9 2330	Arcas	-	-	Robin E1	-	-	-	EGL	-	-	-	64?	-	-
1961-W15	2437429.54	1961 May 10 0100	Arcas	-	-	Falling sphere	-	-	-	EGL	-	-	-	64	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-W16	2437429.56	1961 May 10 0130?	Arcas	-	-	Robin E2	-	-	-	EGL	-	-	-	64?	-	-
1961-W17	2437429.60	1961 May 10 0230?	Arcas	-	-	Robin E3	-	-	-	EGL	-	-	-	64?	-	-
1961-W18	2437429.65	1961 May 10 0330?	Arcas	-	-	Robin E4	-	-	-	EGL	-	-	-	64?	-	-
1961-W19	2437429.69	1961 May 10 0430?	Arcas	-	-	Robin E6	-	-	-	EGL	-	-	-	64?	-	-
1961-W20	2437429.73	1961 May 10 0530?	Arcas	-	-	Robin E7	-	-	-	EGL	-	-	-	64?	-	-
1961-W21	2437429.77	1961 May 10 0630?	Arcas	-	-	Robin E8	-	-	-	EGL	-	-	-	64?	-	-
1961-W22	2437429.81	1961 May 10 0730?	Arcas	-	-	Robin E9	-	-	-	EGL	-	-	-	64?	-	-
1961-W23	2437429.85	1961 May 10 0830?	Arcas	-	-	Robin E10	-	-	-	EGL	-	-	-	64?	-	-
1961-W24	2437429.90	1961 May 10 0930?	Arcas	-	-	Robin E11	-	-	-	EGL	-	-	-	64?	-	-
1961-W25	2437429.93	1961 May 10 1015	Arcas	-	-	Falling sphere	-	-	-	EGL	-	-	-	64	-	-
1961-W26	2437429.97	1961 May 10 1115	Arcas	-	-	Falling sphere	-	-	-	EGL	-	-	-	64	-	-
1961-W27	2437430.01	1961 May 10 1215?	Arcas	-	-	Robin E12	-	-	-	EGL	-	-	-	64?	-	-
1961-W28	2437430.05	1961 May 10 1315?	Arcas	-	-	Robin E13	-	-	-	EGL	-	-	-	64?	-	-
1961-W29	2437430.09	1961 May 10 1415?	Arcas	-	-	Robin E14	-	-	-	EGL	-	-	-	64?	-	-
1961-W30	2437430.14	1961 May 10 1515?	Arcas	-	-	Robin E15	-	-	-	EGL	-	-	-	64?	-	-
1961-W31	2437430.18	1961 May 10 1615?	Arcas	-	-	Robin E16	-	-	-	EGL	-	-	-	64?	-	-
1961-W32	2437430.22	1961 May 10 1715?	Arcas	-	-	Robin E17	-	-	-	EGL	-	-	-	64?	-	-
1961-W33	2437430.26	1961 May 10 1815?	Arcas	-	-	Robin E18	-	-	-	EGL	-	-	-	64?	-	-
1961-W34	2437430.30	1961 May 10 1915?	Arcas	-	-	Robin E19	-	-	-	EGL	-	-	-	64?	-	-
1961-W35	2437430.33	1961 May 10 2000	Arcas	-	-	Falling sphere	-	-	-	EGL	-	-	-	64	-	-
1961-W36	2437430.39	1961 May 10 2115?	Arcas	-	-	Robin E20	-	-	-	EGL	-	-	-	64?	-	-
1961-W37	2437430.43	1961 May 10 2215?	Arcas	-	-	Robin E21	-	-	-	EGL	-	-	-	64?	-	-
1961-W38	2437436.32	1961 May 16 1946	Arcas	-	-	Falling sphere	-	-	-	EGL	-	-	-	64	-	-
1961-W39	2437450.50	1961 Jun	Arcas	-	-	HYDRA Arcas	-	-	LSD-31	HYDS	LP1	-	-	60?	-	-
1961-M39	2437465.50	1961 Jun 15	Arcas	-	-	-	-	-	-	EGL	-	-	-	60?	-	-
1961-Y01	2437526.38	1961 Aug 14 2105	Arcas	-	RTG K61-1	Nattpip	-	-	-	KRON	J	-	-	91	-	-
1961-W42	2437541.50	1961 Aug 30	Arcas	-	-	Arcas Robin	-	-	-	WI	-	-	-	60?	-	-
1961-W43	2437541.50	1961 Aug 30	Arcas	-	-	Arcasonde	-	-	-	WI	-	-	-	60?	-	-
1961-Y02	2437542.50	1961 Sep	Arcas	-	-	Robin	-	-	-	HADC	-	-	-	98	-	-
1962-W02	2437685.50	1962 Jan 21	Arcas	-	-	-	-	-	-	BERM	-	-	-	60?	-	-
1962-W03	2437685.50	1962 Jan 21	Arcas	-	-	-	-	-	-	BERM	-	-	-	60?	-	-
1962-M52	2437724.50	1962 Mar 1	Arcas	-	-	Robin	-	-	-	EGL	-	-	-	68?	-	-
1962-M53	2437724.50	1962 Mar 1	Arcas	-	-	Robin	-	-	-	EGL	-	-	-	68?	-	-
1962-W04	2437747.39	1962 Mar 23 2125:00	Arcas	-	-	Robin	-	-	-	WI	-	-	-	60?	-	-
1962-W05	2437747.45	1962 Mar 23 2255:00	Arcas	-	-	Arcasonde	-	-	-	WI	-	-	-	60?	-	-
1962-W07	2437822.61	1962 Jun 07 0241:00	Arcas	-	-	Arcasonde	-	-	-	WI	-	-	-	60?	-	-
1962-W08	2437822.65	1962 Jun 07 0329:00	Arcas	-	-	Robin	-	-	-	WI	-	-	-	60?	-	-
1962-A97	2437835.19	1962 Jun 19 1633:00	Arcas	-	-	McMurdo 1	-	-	-	MCM	-	-	-	32	-	-
1962-W09	2437845.50	1962 Jun 30	Arcas	-	-	-	-	-	-	WS	-	-	-	70	-	-
1962-W10	2437847.50	1962 Jul 2	Arcas	-	-	-	-	-	-	WS	-	-	-	70	-	-
1962-W11	2437850.50	1962 Jul 5	Arcas	-	-	-	-	-	-	WS	-	-	-	70	-	-
1962-W12	2437851.50	1962 Jul 6	Arcas	-	-	-	-	-	-	WS	-	-	-	70	-	-
1962-W13	2437866.75	1962 Jul 21 0555:00	Arcas	-	-	McMurdo 2	-	-	-	MCM	-	-	-	51	-	-
1962-W14	2437871.63	1962 Jul 26 0303:00	Arcas	?	-	-	-	-	-	WS	-	-	-	66	-	-
1962-W15	2437871.71	1962 Jul 26 0509:00	Arcas	?	-	-	-	-	-	WS	-	-	-	61	-	-
1962-W16	2437871.76	1962 Jul 26 0609:00	Arcas	?	-	-	-	-	-	WS	-	-	-	59	-	-
1962-W17	2437872.88	1962 Jul 27 0911:00	Arcas	?	-	-	-	-	-	WS	-	-	-	66	-	-
1962-W18	2437872.90	1962 Jul 27 0939:00	Arcas	?	-	-	-	-	-	WS	-	-	-	66	-	-
1962-W19	2437872.94	1962 Jul 27 1037:00	Arcas	?	-	-	-	-	-	WS	-	-	-	68	-	-
1962-W20	2437872.99	1962 Jul 27 1145:00	Arcas	?	-	-	-	-	-	WS	-	-	-	66	-	-
1962-W21	2437875.99	1962 Jul 30 1143:00	Arcas	?	-	-	-	-	-	EGL	-	-	-	67	-	-
1962-W22	2437876.07	1962 Jul 30 1341:00	Arcas	?	-	-	-	-	-	EGL	-	-	-	67	-	-
1962-W23	2437883.24	1962 Aug 06 1744:00	Arcas	?	-	-	-	-	-	EGL	-	-	-	60	-	-
1962-W24	2437883.26	1962 Aug 06 1821:00	Arcas	?	-	-	-	-	-	EGL	-	-	-	62	-	-
1962-W25	2437883.35	1962 Aug 06 2020:00	Arcas	?	-	-	-	-	-	EGL	-	-	-	60?	-	-
1962-M17	2437884.42	1962 Aug 7 2202	Arcas	-	RTG K62-2	Air sample	-	-	-	KRON	-	-	-	70	-	-
1962-A139	2437893.15	1962 Aug 16 1539	Arcas	-	-	McMurdo 3	-	-	-	MCM	-	-	-	41	-	-
1962-W26	2437919.23	1962 Sep 11 1732:00	Arcas	-	-	McMurdo 4	-	-	-	MCM	-	-	-	63	-	-
1962-W27	2437928.63	1962 Sep 21 0314:00	Arcas	-	-	McMurdo 5	-	-	-	MCM	-	-	-	61	-	-
1962-W28	2437932.22	1962 Sep 24 1711	Arcas	?	-	-	-	-	-	WS	-	-	-	69	-	-
1962-W29	2437932.24	1962 Sep 24 1750	Arcas	?	-	-	-	-	-	WS	-	-	-	69	-	-
1962-W30	2437934.68	1962 Sep 27 0419	Arcas	-	-	McMurdo 6	-	-	-	MCM	-	-	-	69	-	-
1962-W36	2437940.65	1962 Oct 03 0334:00	Arcas	-	-	McMurdo 7	-	-	-	MCM	-	-	-	66	-	-
1962-A173	2437956.19	1962 Oct 18 1634:00	Arcas	-	-	McMurdo 8	-	-	-	MCM	-	-	-	31	-	-
1962-W31	2437967.50	1962 Oct 30	Arcas	-	Range test	Robin	-	-	-	FC	-	-	-	64?	-	-
1962-W32	2437967.50	1962 Oct 30	Arcas	-	-	Robin	-	-	-	FC	-	-	-	64?	-	-
1962-W33	2437969.50	1962 Nov 1?	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1962-W34	2437969.50	1962 Nov 1?	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1962-W35	2437969.50	1962 Nov 1?	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1962-W55	2437971.68	1962 Nov 3 0420	Arcas	-	-	McMurdo 9	-	-	-	MCM	-	-	-	60?	-	-
1962-W48	2437976.19	1962 Nov 07 1635:00	Arcas	-	-	McMurdo 10 (MCM 30)	-	-	-	MCM	-	-	-	60?	-	-
1962-W56	2437983.74	1962 Nov 15 0547	Arcas	-	-	McMurdo 11	-	-	-	MCM	-	-	-	60?	-	-
1962-W49	2437996.63	1962 Nov 28 0314:00	Arcas	-	-	McMurdo 12	-	-	-	MCM	-	-	-	60?	-	-
1962-W50	2438003.73	1962 Dec 05 0530:00	Arcas	-	-	McMurdo 13	-	-	-	MCM	-	-	-	60?	-	-
1962-A213	2438004.78	1962 Dec 6 0647	Arcas	-	-	Arcasonde 10.66 sup.	-	-	-	FC	-	-	-	0?	-	-
1962-W53	2438010.68	1962 Dec 12 0417:00	Arcas	-	-	McMurdo 14	-	-	-	MCM	-	-	-	60?	-	-
1962-W54	2438019.66	1962 Dec 21 0349:00	Arcas	-	-	McMurdo 15	-	-	-	MCM	-	-	-	60?	-	-
1963-W01	2438029.50	1963?	Arcas	-	-	Parachute test	-	-	-	WS	-	-	-	65	-	-
1963-W02	2438029.50	1963?	Arcas	-	-	Parachute test	-	-	-	WS	-	-	-	65	-	-
1963-W03	2438029.50	1963?	Arcas	-	-	Parachute test	-	-	-	WS	-	-	-	65	-	-
1963-W04	2438038.64	1963 Jan 09 0320:00	Arcas	-	-	McMurdo 16	-	-	-	MCM	-	-	-	60?	-	-
1963-W05	2438045.70	1963 Jan 16 0445:00	Arcas	-	-	McMurdo 17	-	-	-	MCM	-	-	-	60?	-	-
1963-W06	2438048.22	1963 Jan 18 1718	Arcas	-	-	Robin	-	-	-	FC	-	-	-	60?	-	-
1963-W41	2438066.73	1963 Feb 6 0535	Arcas	-	-	McMurdo 18	-	-	-	MCM	-	-	-	60?	-	-
1963-W42	2438087.69	1963 Feb 27 0430	Arcas	-	-	McMurdo 19	-	-	-	MCM	-	-	-	60?	-	-
1963-W11	2438090.51	1963 Mar 2 0015:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-W43	2438143.54	1963 Apr 24 0100	Arcas	-	-	McMurdo 20	-	-	-	MCM	-	-	-	60?	-	-
1963-W18	2438165.65	1963 May 16 0340:00	Arcas	-	-	McMurdo 21	-	-	-	MCM	-	-	-	60?	-	-
1963-W19	2438172.50	1963 May 23	Arcas	-	-	-	-	-	-	BFL	-	-	-	60?	-	-
1963-W22	2438180.50	1963 Jun	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1963-W24	2438212.62	1963 Jul 02 0257:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1963-W25	2438239.66	1963 Jul 29 0348:00	Arcas	-	-	McMurdo 22	-	-	-	MCM	-	-	-	60?	-	-
1963-W44	2438255.60	1963 Aug 14 0230	Arcas	-	-	McMurdo 23	-	-	-	MCM	-	-	-	60?	-	-
1963-W26	2438264.63	1963 Aug 23 0303:00	Arcas	-	-	McMurdo 24	-	-	-	MCM	-	-	-	60?	-	-
1963-W27	2438270.28	1963 Aug 28 1848	Arcas	-	-	Robin	-	-	-	FC	-	-	-	60?	-	-
1963-W28	2438272.50	1963 Sep	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1963-W29	2438272.50	1963 Sep	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1963-W30	2438289.65	1963 Sep 17 0330:00	Arcas	-	-	McMurdo 25	-	-	-	MCM	-	-	-	60?	-	-
1963-W31	2438290.60	1963 Sep 18 0230:00	Arcas	-	-	McMurdo 26	-	-	-	MCM	-	-	-	60?	-	-
1963-W32	2438291.25	1963 Sep 18 1800:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1963-W33	2438299.50	1963 Sep 27?	Arcas	-	-	Arcas-Margo (Meteor)	-	-	-	WI	-	-	-	51	-	-
1963-W34	2438299.62	1963 Sep 27 0300:00	Arcas	-	-	McMurdo 27	-	-	-	MCM	-	-	-	60?	-	-
1963-W35	2438305.25	1963 Oct 02 1804:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1963-W45	2438305.65	1963 Oct 3 0330	Arcas	-	-	McMurdo 28	-	-	-	MCM	-	-	-	60?	-	-
1963-W36	2438310.25	1963 Oct 7 1800	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1963-W39	2438347.36	1963 Nov 13 2045:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1963-W40	2438376.53	1963 Dec 13 0045:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W01	2438394.50	1964 Jan	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W02	2438394.50	1964 Jan	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W03	2438411.65	1964 Jan 17 0337:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W04	2438423.59	1964 Jan 29 0205:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-A16	2438424.50	1964 Jan 29 2357	Arcas	?	-	Deltasonde for 10.89	-	-	-	FC	-	-	-	1?	-	-
1964-W05	2438430.57	1964 Feb 5 0145	Arcas	-	-	Deltasonde for 10.87	-	-	-	FC	-	-	-	60?	-	-
1964-A204	2438437.50	1964 Feb 12	Arcas	-	-	Paetzold ozonesonde	-	-	-	PM	-	-	-	0	-	-
1964-W08	2438438.69	1964 Feb 13 0440	Arcas	?	-	Deltasonde for 10.88	-	-	-	FC	-	-	-	60?	-	-
1964-M129	2438439.54	1964 Feb 14 0052	Arcas	-	-	Arcas-Margo	-	-	-	WI	-	-	-	50?	-	-
1964-A201	2438439.56	1964 Feb 14 0132	Arcas	?	-	Mighty Mouse	-	-	-	WI	-	-	-	40?	-	-
1964-W09	2438454.50	1964 Mar	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W10	2438454.50	1964 Mar	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W11	2438454.50	1964 Mar	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W12	2438454.50	1964 Mar	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W13	2438454.50	1964 Mar	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W14	2438468.33	1964 Mar 13 2000:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-M147	2438470.50	1964 Mar 16	Arcas	-	-	Paetzold ozonesonde	-	-	-	WS	-	-	-	50?	-	-
1964-W15	2438480.25	1964 Mar 25 1800:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W18	2438485.80	1964 Mar 31 0715:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	64	-	-
1964-W17	2438485.50	1964 Apr	Arcas	-	-	Arcasonde	-	-	-	FC	-	-	-	60?	-	-
1964-W19	2438487.54	1964 Apr 02 0100:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W20	2438493.67	1964 Apr 08 0409:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	64	-	-
1964-W21	2438494.27	1964 Apr 08 1825:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	64	-	-
1964-W22	2438501.20	1964 Apr 15 1645:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	64	-	-
1964-M84	2438506.14	1964 Apr 20 1515	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M85	2438506.17	1964 Apr 20 1607	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M86	2438506.90	1964 Apr 21 0932	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M87	2438507.10	1964 Apr 21 1428	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M88	2438507.17	1964 Apr 21 1606	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-W23	2438508.25	1964 Apr 22 1807:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-M89	2438507.96	1964 Apr 22 1059	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M90	2438508.09	1964 Apr 22 1403	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M91	2438508.19	1964 Apr 22 1633	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M92	2438508.94	1964 Apr 23 1038	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M93	2438509.09	1964 Apr 23 1403	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M94	2438509.10	1964 Apr 23 1424	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M95	2438509.18	1964 Apr 23 1623	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M96	2438509.92	1964 Apr 24 1002	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M97	2438510.09	1964 Apr 24 1404	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M98	2438512.97	1964 Apr 27 1120	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M99	2438513.08	1964 Apr 27 1402	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M100	2438513.20	1964 Apr 27 1648	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M101	2438513.94	1964 Apr 28 1028	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M102	2438513.96	1964 Apr 28 1100	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M103	2438514.09	1964 Apr 28 1403	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M104	2438514.17	1964 Apr 28 1559	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M105	2438514.20	1964 Apr 28 1646	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M106	2438514.95	1964 Apr 29 1042	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M107	2438515.09	1964 Apr 29 1408	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M108	2438515.19	1964 Apr 29 1634	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M109	2438515.98	1964 Apr 30 1129	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M110	2438516.10	1964 Apr 30 1427	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M111	2438516.18	1964 Apr 30 1619	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-W24	2438515.50	1964 May	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W25	2438515.50	1964 May	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W26	2438515.50	1964 May	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-M112	2438519.95	1964 May 4 1045	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M113	2438519.96	1964 May 4 1109	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M114	2438520.10	1964 May 4 1417	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M115	2438520.20	1964 May 4 1643	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M116	2438520.40	1964 May 4 2143	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M117	2438520.96	1964 May 5 1109	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M118	2438520.98	1964 May 5 1129	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M119	2438521.19	1964 May 5 1635	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M120	2438521.21	1964 May 5 1700	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-M121	2438521.97	1964 May 6 1120	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M122	2438522.08	1964 May 6 1400	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M123	2438522.18	1964 May 6 1622	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-W27	2438522.25	1964 May 06 1800:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-M124	2438523.94	1964 May 8 1039	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M125	2438523.96	1964 May 8 1103	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M126	2438524.10	1964 May 8 1422	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M127	2438524.12	1964 May 8 1448	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-M128	2438524.20	1964 May 8 1647	Arcas	-	-	ROBIN	-	-	-	SDQ	-	-	-	75?	-	-
1964-W28	2438536.17	1964 May 20 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W29	2438543.17	1964 May 27 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W30	2438546.50	1964 Jun	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W31	2438546.50	1964 Jun	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W32	2438546.50	1964 Jun	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W33	2438557.17	1964 Jun 10 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-M156	2438563.50	1964 Jun 17	Arcas	-	-	-	-	-	-	CC	-	-	-	55	-	-
1964-W34	2438564.17	1964 Jun 17 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	64	-	-
1964-W35	2438571.50	1964 Jun 25	Arcas	-	T1-1673	BioSpace 1	-	-	-	WI	-	-	-	20?	-	-
1964-W36	2438576.50	1964 Jul	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W37	2438576.50	1964 Jul	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W38	2438576.50	1964 Jul	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W39	2438576.50	1964 Jul	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W40	2438586.50	1964 Jul 10	Arcas	-	T1-1674	BioSpace 2	-	-	-	WI	-	-	-	20?	-	-
1964-W43	2438592.17	1964 Jul 15 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W45	2438599.50	1964 Jul 23	Arcas	-	T1-1675	BioSpace 3	-	-	-	WI	-	-	-	27?	-	-
1964-W46	2438605.50	1964 Jul 29	Arcas	-	T1-1676	BioSpace 4	-	-	-	WI	-	-	-	32?	-	-
1964-W47	2438607.50	1964 Aug	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W48	2438607.50	1964 Aug	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W49	2438607.50	1964 Aug	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W50	2438607.50	1964 Aug	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W51	2438607.50	1964 Aug	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W53	2438613.17	1964 Aug 05 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W54	2438614.00	1964 Aug 6 1207	Arcas	-	Meteo	-	Arcas Keweenaw 1	-	-	KEW	LP1	-	-	66	-	-
1964-W52	2438617.50	1964 Aug 10?	Arcas	-	-	-	Arcas Keweenaw 2	-	-	KEW	LP1	-	-	60?	-	-
1964-M148	2438623.50	1964 Aug 16	Arcas	-	-	Paetzold ozonesonde	-	-	-	PM?	-	-	-	50?	-	-
1964-M151	2438633.50	1964 Aug 26	Arcas	-	-	Paetzold ozonesonde	-	-	-	PM?	-	-	-	50	-	-
1964-W58	2438625.50	1964 Aug 18	Arcas	-	-	Reentry 4 Cal (1of6)	-	-	-	BERM	-	-	-	60?	-	-
1964-W59	2438625.50	1964 Aug 18	Arcas	-	-	Reentry 4 Cal	-	-	-	BERM	-	-	-	60?	-	-
1964-W68	2438638.50	1964 Sep	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W69	2438638.50	1964 Sep	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W70	2438638.50	1964 Sep	Arcas	-	-	Arcasonde IIA	-	-	-	FC	-	-	-	60?	-	-
1964-W71	2438638.50	1964 Sep?	Arcas	-	-	-	Arcas Keweenaw 3	-	-	KEW	LP1	-	-	60?	-	-
1964-W141	2438638.50	1964 Sep	Arcas	-	-	PSU Arcas #1	-	-	-	WS	-	-	-	70?	-	-
1964-A127	2438642.12	1964 Sep 3 1454	Arcas	-	T1-1676	Biospace 5	-	-	-	WI	-	-	-	35	-	-
1964-W73	2438643.17	1964 Sep 04 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W74	2438652.50	1964 Sep 14	Arcas	-	-	-	Arcas Keweenaw 4	-	-	KEW	LP1	-	-	60?	-	-
1964-W72	2438638.50	1964 Sep?	Arcas	-	-	-	Arcas Keweenaw 5	-	-	KEW	LP1	-	-	60?	-	-
1964-A138	2438665.19	1964 Sep 26 1635	Arcas	-	T1-1746	Biospace 6	-	-	-	WI	-	-	-	35	-	-
1964-W84	2438669.17	1964 Sep 30 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W77	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W78	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W79	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W80	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W81	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W82	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W83	2438668.50	1964 Oct	Arcas	-	-	Arcasonde I	-	-	-	FC	-	-	-	60?	-	-
1964-W86	2438671.17	1964 Oct 02 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W87	2438674.17	1964 Oct 05 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W88	2438676.17	1964 Oct 07 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-M149	2438676.50	1964 Oct 8	Arcas	-	-	ROCOZ	-	-	-	PM	-	-	-	50	-	-
1964-W90	2438681.17	1964 Oct 12 1607:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W91	2438683.17	1964 Oct 14 1602:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W92	2438685.17	1964 Oct 16 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W93	2438690.17	1964 Oct 21 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W95	2438692.17	1964 Oct 23 1600:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W96	2438698.29	1964 Oct 29 1903:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1964-W97	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W98	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W99	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W100	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W101	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W102	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W103	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W104	2438699.50	1964 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W108	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W109	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W110	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W111	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W112	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W113	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W114	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W115	2438729.50	1964 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1964-W116	2438729.50	1964 Dec	Arcas	-	-	-	-	-	-	BFL	-	-	-	60?	-	-
1964-W120	2438736.97	1964 Dec 7 1115	Arcas	-	-	ROBIN	-	-	-	CC	LC43	-	-	60	-	-
1964-W121	2438737.21	1964 Dec 7 1705	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60	-	-
1964-W122	2438741.25	1964 Dec 11 1805	Arcas	-	-	PSU Arcas #2	-	-	-	WS	-	-	-	75	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-W125	2438745.50	1964 Dec 16	Frangible Arcas	-	FAD-1	AFFT-1	-	-	-	SNI	-	-	-	58	-	-
1965-W01	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W02	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W03	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W04	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W05	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W06	2438760.50	1965 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-A189	2438780.50	1965 Jan 20	Frangible Arcas	-	FAD-2	AFFT-2	-	-	-	PM	-	-	-	35	-	-
1965-W10	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W11	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W12	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W13	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W14	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W15	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W16	2438791.50	1965 Feb	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W210	2438808.15	1965 Feb 16 1537	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1965-W211	2438809.21	1965 Feb 17 1700	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1965-W21	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W22	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W23	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W24	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W25	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W26	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W27	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W28	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W29	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W30	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W31	2438819.50	1965 Mar	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W33	2438826.42	1965 Mar 6 2200	Arcas	?	-	ROBIN 933	-	-	-	WS	-	-	-	64	-	-
1965-W34	2438826.50	1965 Mar 7	Arcas	-	-	-	-	-	CVE-25	NASA65	LP43	-	-	60?	-	-
1965-W36	2438828.50	1965 Mar 9	Arcas	-	-	-	-	-	CVE-25	NASA65	LP44	-	-	60?	-	-
1965-W41	2438835.50	1965 Mar 16	Arcas	-	-	-	-	-	CVE-25	NASA65	LP46	-	-	60?	-	-
1965-W250	2438837.50	1965 Mar 18	Arcas	-	-	-	-	-	CVE-25	NASA65	LP48	-	-	60?	-	-
1965-W251	2438840.50	1965 Mar 21	Arcas	-	-	-	-	-	CVE-25	NASA65	LP50	-	-	60?	-	-
1965-W45	2438841.92	1965 Mar 22 1000:00	Arcas	-	-	PSU-Arcas #4	-	-	-	WS	-	-	-	70?	-	-
1965-W252	2438843.50	1965 Mar 24	Arcas	-	-	-	-	-	CVE-25	NASA65	LP52	-	-	60?	-	-
1965-W253	2438846.50	1965 Mar 27	Arcas	-	-	-	-	-	CVE-25	NASA65	LP54	-	-	60?	-	-
1965-W48	2438850.50	1965 Apr	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W49	2438850.50	1965 Apr	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W50	2438850.50	1965 Apr	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W51	2438850.50	1965 Apr	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W254	2438852.50	1965 Apr 2	Arcas	-	-	-	-	-	CVE-25	NASA65	LP56	-	-	60?	-	-
1965-W255	2438853.50	1965 Apr 3	Arcas	-	-	-	-	-	CVE-25	NASA65	LP57	-	-	60?	-	-
1965-W256	2438854.50	1965 Apr 4	Arcas	-	-	-	-	-	CVE-25	NASA65	LP58	-	-	60?	-	-
1965-W257	2438855.50	1965 Apr 5	Arcas	-	-	-	-	-	CVE-25	NASA65	LP59	-	-	60?	-	-
1965-W258	2438855.50	1965 Apr 5	Arcas	-	-	-	-	-	CVE-25	NASA65	LP60	-	-	60?	-	-
1965-W259	2438856.50	1965 Apr 6	Arcas	-	-	-	-	-	CVE-25	NASA65	LP61	-	-	60?	-	-
1965-W260	2438860.50	1965 Apr 10	Arcas	-	-	-	-	-	CVE-25	NASA65	LP63	-	-	60?	-	-
1965-W261	2438861.50	1965 Apr 11	Arcas	-	-	-	-	-	CVE-25	NASA65	LP64	-	-	60?	-	-
1965-W262	2438861.50	1965 Apr 11	Arcas	-	-	-	-	-	CVE-25	NASA65	LP65	-	-	60?	-	-
1965-W263	2438863.50	1965 Apr 13	Arcas	-	-	-	-	-	CVE-25	NASA65	LP66	-	-	60?	-	-
1965-W264	2438864.50	1965 Apr 14	Arcas	-	-	-	-	-	CVE-25	NASA65	LP67	-	-	60?	-	-
1965-W265	2438865.50	1965 Apr 15	Arcas	-	-	-	-	-	CVE-25	NASA65	LP68	-	-	60?	-	-
1965-W60	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W61	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W62	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W63	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W64	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W65	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W66	2438880.50	1965 May	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-A187	2438900.50	1965 May 20	Frangible Arcas	-	FAS-1	AFFT-3/Arcasonde 1A	-	-	-	SNI	-	-	-	21	-	-
1965-W70	2438903.58	1965 May 23 0202:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1965-W71	2438904.08	1965 May 23 1400:00	Arcas	?	-	-	-	-	-	ASC	-	-	-	60?	-	-
1965-W212	2438906.24	1965 May 25 1740	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1965-W73	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W74	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W75	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W76	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W77	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W78	2438911.50	1965 Jun	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W84	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W85	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W86	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W87	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W88	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W89	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W90	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W91	2438941.50	1965 Jul	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W97	2438954.83	1965 Jul 13 0750:00	Arcas	-	-	PSU-Arcas #5	-	-	-	WS	-	-	-	74	-	-
1965-W99	2438956.71	1965 Jul 15 0500:00	Arcas	-	-	PSU-Arcas #6	-	-	-	WS	-	-	-	74	-	-
1965-W206	2438964.50	1965 Jul 23	Arcas	-	-	PSU-Arcas #7?	-	-	-	WS	-	-	-	70?	-	-
1965-W213	2438972.07	1965 Jul 30 1341	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1965-W104	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W105	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W106	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W107	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-W108	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W109	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W110	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W111	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W112	2438972.50	1965 Aug	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W113	2438980.04	1965 Aug 7 1300	Arcas	-	-	Arcasonde IA / 10.96	-	-	-	FC	-	-	-	60?	-	-
1965-W114	2438980.36	1965 Aug 7 2045	Arcas	-	-	Arcasonde IA /10.165	-	-	-	FC	-	-	-	60?	-	-
1965-W115	2438980.71	1965 Aug 8 0500	Arcas	-	-	Arcasonde IA /10.166	-	-	-	FC	-	-	-	60?	-	-
1965-W116	2438980.97	1965 Aug 8 1111	Arcas	-	-	Arcasonde IA /10.167	-	-	-	FC	-	-	-	60?	-	-
1965-A222	2438993.20	1965 Aug 20 1642	Arcas	-	-	BioSpace	-	-	-	WI	-	-	-	40?	-	-
1965-A233	2438998.16	1965 Aug 25 1547	Arcas	-	-	BioSpace	-	-	-	WI	-	-	-	40?	-	-
1965-W121	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W122	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W123	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W124	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W125	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W126	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W127	2439003.50	1965 Sep	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W223	2439007.14	1965 Sep 3 1525	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W129	2439012.44	1965 Sep 8 2235	Arcas	-	EXAMETNET A65-01	Arcasonde IA	-	-	-	WI	-	-	-	53	-	-
1965-W130	2439012.56	1965 Sep 9 0126	Arcas	-	EXAMETNET A65-02	Arcasonde IA	-	-	-	WI	-	-	-	52	-	-
1965-W138	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W139	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W140	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W141	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W142	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W143	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W144	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W145	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W146	2439033.50	1965 Oct	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W151	2439058.67	1965 Oct 25 0400:00	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1965-W214	2439059.32	1965 Oct 25 1938	Arcas	-	EXAMETNET A65-03	Arcasonde IA	-	-	-	WI	-	-	-	59	-	-
1965-W267	2439059.51	1965 Oct 26 0015	Arcas	-	EXAMETNET A65-04	Arcasonde IA	-	-	-	WI	-	-	-	59	-	-
1965-W215	2439060.27	1965 Oct 26 1834	Arcas	-	EXAMETNET A65-05	Arcasonde IA	-	-	-	WI	-	-	-	55	-	-
1965-W216	2439061.32	1965 Oct 27 1942	Arcas	-	EXAMETNET A65-06	Arcasonde IA	-	-	-	WI	-	-	-	55	-	-
1965-W154	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W155	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W156	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W157	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W158	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W159	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W160	2439064.50	1965 Nov	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W268	2439069.30	1965 Nov 4 1911	Arcas	-	EXAMETNET A65-07	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-
1965-W279	2439073.30	1965 Nov 8 1905	Arcas	-	EXAMETNET A65-08	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1965-W217	2439073.34	1965 Nov 8 2013	Arcas	-	EXAMETNET A65-09	Arcasonde IA	-	-	-	WI	-	-	-	61	-	-
1965-W218	2439075.26	1965 Nov 10 1819	Arcas	-	EXAMETNET A65-10	Arcasonde IA	-	-	-	WI	-	-	-	56	-	-
1965-W224	2439075.69	1965 Nov 11 0440	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W172	2439088.63	1965 Nov 24 0306:00	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1965-W219	2439089.22	1965 Nov 24 1716	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W225	2439093.69	1965 Nov 29 0429	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W175	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W176	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W177	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W178	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W179	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W180	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W181	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W182	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W183	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W184	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W185	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W186	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W187	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W188	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W189	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W190	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W191	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W192	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W193	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W194	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W195	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W196	2439094.50	1965 Dec	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W220	2439096.23	1965 Dec 1 1734	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W226	2439096.77	1965 Dec 2 0623	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-A244	2439102.50	1965 Dec 8	Arcas	-	-	-	-	-	-	KEW	LP3?	-	-	60?	-	-
1965-W221	2439103.35	1965 Dec 8 2031	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W227	2439103.70	1965 Dec 9 0454	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W197	2439104.43	1965 Dec 9 2215	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1965-W199	2439105.50	1965 Dec 11	Arcas	-	-	-	-	-	-	EGL	-	-	-	60?	-	-
1965-W222	2439110.31	1965 Dec 15 1921	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-W228	2439110.75	1965 Dec 16 0601	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1965-A188	2439115.50	1965 Dec 21	Frangible Arcas	-	FAS-2	AFFT-4/Arcasonde 1A	-	-	-	SNI	-	-	-	40	-	-
1966-W02	2439125.50	1966 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1966-W03	2439125.50	1966 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1966-W04	2439125.50	1966 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-
1966-W05	2439125.50	1966 Jan	Arcas	-	-	Arcasonde IA	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W06	2439125.50	1966 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W07	2439125.50	1966 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W10	2439131.62	1966 Jan 6 0300	Arcas	-	-	PSU-Arcas #9	-	-	-	WS	-	-	-	78?	-	-
1966-W11	2439131.71	1966 Jan 6 0500	Arcas	-	-	PSU-Arcas #10	-	-	-	WS	-	-	-	70?	-	-
1966-W24	2439149.78	1966 Jan 24 0640	Arcas	-	-	Arcasonde 1A /10.185	-	-	-	FC	-	-	-	60?	-	-
1966-W434	2439146.15	1966 Jan 20 1543	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1966-W31	2439157.83	1966 Feb 1 0800	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W34	2439158.42	1966 Feb 1 2211	Arcas	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W35	2439158.62	1966 Feb 2 0300	Arcas	-	-	Arcasonde 1A /10.186	-	-	-	FC	-	-	-	60?	-	-
1966-W36	2439158.71	1966 Feb 2 0500	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1966-W38	2439159.12	1966 Feb 2 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W39	2439159.14	1966 Feb 2 1525	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W40	2439159.16	1966 Feb 2 1545	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W42	2439159.23	1966 Feb 2 1730	Arcas	-	-	Sphere	-	-	-	PM	-	-	-	60?	-	-
1966-W43	2439159.35	1966 Feb 2 2017	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W44	2439159.38	1966 Feb 2 2100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W45	2439159.39	1966 Feb 2 2115	Arcas	-	-	Delta T.F.	-	-	-	WS	-	-	-	60?	-	-
1966-W50	2439160.33	1966 Feb 03 2000:00	Arcas	-	-	Ozone	-	-	-	WS	-	-	-	60?	-	-
1966-W51	2439160.33	1966 Feb 3 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W54	2439160.80	1966 Feb 4 0705	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W57	2439161.09	1966 Feb 4 1415	Arcas	-	-	Arcasonde 1A	-	-	-	GTI	-	-	-	60?	-	-
1966-W58	2439161.13	1966 Feb 4 1507	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W60	2439161.17	1966 Feb 4 1600	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W63	2439161.33	1966 Feb 4 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W64	2439161.54	1966 Feb 5 0101	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W65	2439162.33	1966 Feb 5 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W66	2439163.33	1966 Feb 6 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W67	2439164.12	1966 Feb 7 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W68	2439164.13	1966 Feb 7 1501	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W69	2439164.13	1966 Feb 7 1504	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W70	2439164.21	1966 Feb 7 1705	Arcas	-	-	Arcasonde 1A	-	-	-	GTI	-	-	-	60?	-	-
1966-W73	2439164.52	1966 Feb 8 0030	Arcas	-	-	-	-	-	-	GRLY	-	-	-	60?	-	-
1966-A28	2439164.80	1966 Feb 8 0715	Arcas	-	-	Delta sensor	-	-	-	KAU	-	-	-	48?	-	-
1966-W75	2439165.33	1966 Feb 8 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-A30	2439165.46	1966 Feb 8 2307	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	45?	-	-
1966-A31	2439165.46	1966 Feb 8 2307	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	41?	-	-
1966-W77	2439165.50	1966 Feb 9 0000	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W78	2439165.50	1966 Feb 9 0007	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W80	2439166.12	1966 Feb 9 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W81	2439166.12	1966 Feb 9 1500	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W82	2439166.13	1966 Feb 9 1508	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W84	2439166.25	1966 Feb 9 1801	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-A33	2439166.38	1966 Feb 9 2112	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	44?	-	-
1966-W85	2439166.51	1966 Feb 10 0014	Arcas	-	-	Delta sensor	-	-	-	KAU	-	-	-	60?	-	-
1966-A34	2439166.56	1966 Feb 10 0120	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	40?	-	-
1966-W86	2439166.59	1966 Feb 10 0207	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W87	2439166.70	1966 Feb 10 0446	Arcas	-	-	Arcasonde 1A	-	-	-	BERM	-	-	-	60?	-	-
1966-W88	2439166.75	1966 Feb 10 0606	Arcas	-	-	Sphere	-	-	-	BERM	-	-	-	60?	-	-
1966-W90	2439166.82	1966 Feb 10 0734	Arcas	-	-	Arcasonde 1A	-	-	-	BERM	-	-	-	60?	-	-
1966-W91	2439166.84	1966 Feb 10 0809	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W92	2439166.86	1966 Feb 10 0843	Arcas	-	-	Sphere	-	-	-	BERM	-	-	-	60?	-	-
1966-W93	2439166.93	1966 Feb 10 1017	Arcas	-	-	Arcasonde 1A	-	-	-	PM	-	-	-	60?	-	-
1966-W95	2439167.29	1966 Feb 10 1900	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W96	2439167.29	1966 Feb 10 1900	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W98	2439167.33	1966 Feb 10 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W101	2439167.49	1966 Feb 10 2340	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W102	2439167.51	1966 Feb 11 0008	Arcas	-	-	Sphere	-	-	-	BERM	-	-	-	60?	-	-
1966-W103	2439167.55	1966 Feb 11 0114	Arcas	-	-	Arcasonde 1A	-	-	-	BERM	-	-	-	60?	-	-
1966-W104	2439167.59	1966 Feb 11 0214	Arcas	-	-	Sphere	-	-	-	BERM	-	-	-	60?	-	-
1966-W105	2439167.62	1966 Feb 11 0300	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W106	2439167.63	1966 Feb 11 0311	Arcas	-	-	Sphere	-	-	-	BERM	-	-	-	60?	-	-
1966-W107	2439168.12	1966 Feb 11 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W110	2439168.34	1966 Feb 11 2012	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W111	2439168.42	1966 Feb 11 2211	Arcas	-	-	Arcasonde 1A	-	-	-	BERM	-	-	-	60?	-	-
1966-W112	2439168.47	1966 Feb 11 2319	Arcas	-	-	-	-	-	-	BERM	-	-	-	60?	-	-
1966-W114	2439171.12	1966 Feb 14 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W115	2439171.12	1966 Feb 14 1500	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W116	2439171.14	1966 Feb 14 1515	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W117	2439171.17	1966 Feb 14 1600	Arcas	-	-	Arcasonde 1A	-	-	-	GTI	-	-	-	60?	-	-
1966-W118	2439171.23	1966 Feb 14 1730	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W120	2439171.33	1966 Feb 14 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W123	2439172.33	1966 Feb 15 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W128	2439173.13	1966 Feb 16 1510	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W129	2439173.16	1966 Feb 16 1545	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1966-W130	2439173.19	1966 Feb 16 1629	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W131	2439173.25	1966 Feb 16 1800	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1966-W133	2439173.33	1966 Feb 16 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W134	2439173.50	1966 Feb 17 0002	Arcas	-	-	Arcasonde 1A	-	-	-	KAU	-	-	-	60?	-	-
1966-W138	2439174.33	1966 Feb 17 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W142	2439175.10	1966 Feb 18 1430	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W145	2439175.25	1966 Feb 18 1800	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W147	2439175.27	1966 Feb 18 1835	Arcas	-	-	Arcasonde 1A	-	-	-	GTI	-	-	-	60?	-	-
1966-W151	2439175.36	1966 Feb 18 2034	Arcas	-	-	-	-	-	-	GRLY	-	-	-	60?	-	-
1966-W153	2439175.95	1966 Feb 19 1055	Arcas	-	-	Arcasonde 1A	-	-	-	PM	-	-	-	60?	-	-
1966-W154	2439176.05	1966 Feb 19 1312	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W155	2439176.33	1966 Feb 19 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W156	2439177.04	1966 Feb 20 1300	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W157	2439177.33	1966 Feb 20 2000	Arcas	-	-	-	-	-	-	GRLY	-	-	-	60?	-	-
1966-W158	2439178.04	1966 Feb 21 1300	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W159	2439178.04	1966 Feb 21 1300	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W160	2439178.10	1966 Feb 21 1430	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W161	2439178.11	1966 Feb 21 1445	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W162	2439178.12	1966 Feb 21 1500	Arcas	-	-	Arcasonde 1A	-	-	-	GTI	-	-	-	60?	-	-
1966-W166	2439179.04	1966 Feb 22 1300	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W167	2439179.04	1966 Feb 22 1300	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W168	2439179.33	1966 Feb 22 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W169	2439179.45	1966 Feb 22 2245	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W170	2439179.45	1966 Feb 22 2255	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W171	2439180.04	1966 Feb 23 1300	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W172	2439180.12	1966 Feb 23 1446	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W174	2439180.25	1966 Feb 23 1800	Arcas	-	-	Arcasonde 1A	-	-	-	WS	-	-	-	60?	-	-
1966-W177	2439180.33	1966 Feb 23 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W179	2439180.35	1966 Feb 23 2022	Arcas	-	-	Arcasonde 1A	-	-	-	KAU	-	-	-	60?	-	-
1966-W180	2439180.47	1966 Feb 23 2320	Arcas	-	-	Arcasonde 1A	-	-	-	PM	-	-	-	60?	-	-
1966-W182	2439181.03	1966 Feb 24 1245	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W183	2439181.03	1966 Feb 24 1245	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W184	2439182.03	1966 Feb 25 1245	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W185	2439182.06	1966 Feb 25 1321	Arcas	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1966-W186	2439182.10	1966 Feb 25 1430	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W187	2439182.17	1966 Feb 25 1600	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W190	2439182.45	1966 Feb 25 2245	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W191	2439182.45	1966 Feb 25 2245	Arcas	-	-	Arcasonde 1A	-	-	-	CC	LC43	-	-	60?	-	-
1966-W192	2439182.53	1966 Feb 26 0045	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W193	2439182.61	1966 Feb 26 0245	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W194	2439183.22	1966 Feb 26 1712	Arcas	-	-	Arcasonde 1A Chute	-	-	-	CC	LC43	-	-	60?	-	-
1966-W196	2439183.28	1966 Feb 26 1850	Arcas	-	AS-201 support	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W197	2439183.33	1966 Feb 26 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W199	2439184.28	1966 Feb 27 1845	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W200	2439184.33	1966 Feb 27 2000	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W210	2439184.77	1966 Feb 28 0630	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W211	2439185.11	1966 Feb 28 1445	Arcas	-	-	Arcasonde 1A	-	-	-	ANT	-	-	-	60?	-	-
1966-W212	2439185.12	1966 Feb 28 1500	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W216	2439185.44	1966 Feb 28 2230	Arcas	-	-	Arcasonde 1A	-	-	-	GRLY	-	-	-	60?	-	-
1966-W201	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W202	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W203	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W204	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W205	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W206	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W207	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W208	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W209	2439184.50	1966 Mar	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W452	2439202.60	1966 Mar 18 0231	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1966-W435	2439203.14	1966 Mar 18 1517	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1966-W228	2439216.50	1966 Apr 1	Arcas	-	-	Gerdien condenser	-	-	-	FC	-	-	-	10?	-	-
1966-W229	2439215.50	1966 Apr	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W230	2439215.50	1966 Apr	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W408	2439226.50	1966 Apr 11	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W409	2439226.50	1966 Apr 11	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W410	2439226.50	1966 Apr 11	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W411	2439226.50	1966 Apr 11	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W412	2439226.50	1966 Apr 11?	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W413	2439227.50	1966 Apr 12?	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W414	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W415	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W416	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W417	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W418	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W419	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W420	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W421	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W422	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W423	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W424	2439227.50	1966 Apr 12	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W425	2439227.50	1966 Apr 12?	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W426	2439228.50	1966 Apr 13?	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W427	2439228.50	1966 Apr 13	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W428	2439228.50	1966 Apr 13	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W429	2439228.50	1966 Apr 13	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W430	2439228.50	1966 Apr 13	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W431	2439228.50	1966 Apr 13	Arcas	-	-	Arcasonde 1A	-	-	-	ASC	-	-	-	60?	-	-
1966-W231	2439231.29	1966 Apr 15 1903	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-M100	2439235.50	1966 Apr 20	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M101	2439237.50	1966 Apr 22	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W239	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W240	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W241	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W242	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W243	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W244	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W245	2439245.50	1966 May	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W250	2439247.65	1966 May 2 0330	Arcas	-	-	Arcasonde 1A /10.192	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W251	2439249.54	1966 May 4 0100	Arcas	-	-	Arcasonde 1A /10.193	-	-	-	FC	-	-	-	60?	-	-
1966-W252	2439256.36	1966 May 10 2045	Arcas	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W253	2439256.63	1966 May 11 0306:04	Arcas	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W254	2439257.50	1966 May 12	Arcas	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W255	2439258.50	1966 May 13	Arcas	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-M102	2439268.50	1966 May 23	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M103	2439270.50	1966 May 25	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W262	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W263	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W264	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W265	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W266	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W267	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W268	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W269	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W270	2439276.50	1966 Jun	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W438	2439278.17	1966 Jun 1 1607	Arcas	-	EXAMETNET W09	Arcasonde IA	-	-	-	WI	-	-	-	53	-	-
1966-W271	2439278.19	1966 Jun 1 1631	Arcas	-	EXAMETNET N08	15 CNAE 6612 Arc-1A	-	-	-	CLBI	-	-	-	55	-	-
1966-W439	2439280.12	1966 Jun 3 1446	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W01	2439292.15	1966 Jun 15 1532	Arcas	-	EXAMETNET N09	Arcasonde 1A	-	-	-	CLBI	-	-	-	59	-	-
1966-W499	2439292.26	1966 Jun 15 1814	Arcas	-	EXAMETNET W10	Arcasonde 1A	-	-	-	WI	-	-	-	59	-	-
1966-W277	2439293.68	1966 Jun 17 0423	Arcas	-	-	Arcasonde 1A /10.198	-	-	-	FC	-	-	-	60?	-	-
1966-W279	2439299.81	1966 Jun 23 0724	Arcas	-	-	Arcasonde 1A /10.199	-	-	-	FC	-	-	-	60?	-	-
1966-W440	2439301.13	1966 Jun 24 1501	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W441	2439306.11	1966 Jun 29 1436	Arcas	-	EXAMETNET W11	Arcasonde IA	-	-	-	WI	-	-	-	57	-	-
1966-W487	2439306.18	1966 Jun 29 1619	Arcas	-	EXAMETNET N10	Arcasonde 1A	-	-	-	CLBI	-	-	-	63	-	-
1966-W280	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W281	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W282	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W283	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W284	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W285	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W286	2439306.50	1966 Jul	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W287	2439310.33	1966 Jul 3 1953	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W432	2439312.17	1966 Jul 5 1600	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1966-M104	2439313.50	1966 Jul 7	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M105	2439315.13	1966 Jul 8 1509	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W442	2439320.30	1966 Jul 13 1914	Arcas	-	EXAMETNET W12	Arcasonde IA	-	-	-	WI	-	-	-	63	-	-
1966-W443	2439322.09	1966 Jul 15 1411	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W488	2439322.17	1966 Jul 15 1605	Arcas	-	EXAMETNET N11	Arcasonde 1A	-	-	-	CLBI	-	-	-	62	-	-
1966-W444	2439329.12	1966 Jul 22 1446	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-M106	2439333.50	1966 Jul 27	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M107	2439335.50	1966 Jul 29	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W295	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W296	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W297	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W298	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W299	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W300	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W301	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W302	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W303	2439337.50	1966 Aug	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W489	2439344.83	1966 Aug 7 0758	Arcas	-	EXAMETNET N12	Arcasonde 1A	-	-	-	CLBI	-	-	-	64	-	-
1966-W304	2439344.95	1966 Aug 7 1055	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W305	2439345.27	1966 Aug 7 1831	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W453	2439350.43	1966 Aug 12 2224	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-M108	2439353.12	1966 Aug 15 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W454	2439353.80	1966 Aug 16 0706	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-M129	2439353.81	1966 Aug 16 0730	Arcas	?	-	-	-	-	-	FC	-	-	-	58	-	-
1966-M131	2439353.81	1966 Aug 16 0730	Arcas	?	-	-	-	-	-	WS	-	-	-	61	-	-
1966-M130	2439353.83	1966 Aug 16 0750	Arcas	?	-	-	-	-	-	EGL	-	-	-	55	-	-
1966-M109	2439354.12	1966 Aug 16 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W461	2439354.12	1966 Aug 16 1500	Arcas	-	-	Arcasonde/Ballute	-	-	-	WI	-	-	-	60?	-	-
1966-W462	2439354.17	1966 Aug 16 1600	Arcas	-	-	Arcasonde/Chute	-	-	-	WI	-	-	-	60?	-	-
1966-W490	2439355.15	1966 Aug 17 1537	Arcas	-	EXAMETNET N13	Arcasonde 1A	-	-	-	CLBI	-	-	-	63	-	-
1966-W455	2439355.49	1966 Aug 17 2340	Arcas	-	EXAMETNET W14	Arcasonde IA	-	-	-	WI	-	-	-	57	-	-
1966-M110	2439356.12	1966 Aug 18 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W445	2439357.15	1966 Aug 19 1538	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W433	2439364.12	1966 Aug 26 1500	Arcas	-	-	Chute	-	-	-	CC	LC43	-	-	60?	-	-
1966-W446	2439364.33	1966 Aug 26 1954	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W456	2439365.70	1966 Aug 28 0451	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-M142	2439366.50	1966 Aug 29	Arcas	-	-	PSU-Arcas	-	-	-	WS	-	-	-	70?	-	-
1966-W447	2439367.19	1966 Aug 29 1631	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W457	2439367.56	1966 Aug 30 0121	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W330	2439368.50	1966 Sep	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W331	2439368.50	1966 Sep	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W332	2439368.50	1966 Sep	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W333	2439368.50	1966 Sep	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W311	2439375.71	1966 Sep 7 0500	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W312	2439375.88	1966 Sep 7 0900	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-Y40	2439375.90	1966 Sep 7 0930:00	Arcas	-	-	PSU-Arcas #14	-	-	-	GRLY	-	-	-	85?	-	-
1966-W313	2439376.04	1966 Sep 7 1300	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W448	2439376.15	1966 Sep 7 1535	Arcas	-	EXAMETNET W15	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1966-W314	2439376.21	1966 Sep 7 1700	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W315	2439376.38	1966 Sep 7 2100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W316	2439376.54	1966 Sep 8 0100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W317	2439376.71	1966 Sep 8 0500	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W318	2439376.88	1966 Sep 8 0900	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W319	2439377.04	1966 Sep 8 1300	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W320	2439377.21	1966 Sep 8 1700	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W321	2439377.38	1966 Sep 8 2100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W322	2439377.54	1966 Sep 9 0100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W323	2439377.71	1966 Sep 9 0500	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W324	2439377.88	1966 Sep 9 0900	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W325	2439378.04	1966 Sep 9 1300	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W449	2439378.16	1966 Sep 9 1550	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W326	2439378.21	1966 Sep 9 1700	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W327	2439378.38	1966 Sep 9 2100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W328	2439378.54	1966 Sep 10 0100	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W329	2439378.71	1966 Sep 10 0500	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W491	2439383.15	1966 Sep 14 1539	Arcas	-	EXAMETNET N14	Arcasonde 1A	-	-	-	CLBI	-	-	-	66	-	-
1966-M111	2439383.27	1966 Sep 14 1830	Arcas	-	Ballute	DMQ-9/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M112	2439384.17	1966 Sep 15 1600	Arcas	-	-	DMQ-9/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W450	2439385.32	1966 Sep 16 1935	Arcas	-	EXAMETNET W16	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1966-W458	2439385.67	1966 Sep 17 0402	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-M113	2439388.12	1966 Sep 19 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-M114	2439389.12	1966 Sep 20 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1966-W451	2439392.28	1966 Sep 23 1848	Arcas	-	EXAMETNET W17	Arcasonde IA	-	-	-	WI	-	-	-	63	-	-
1966-W482	2439397.25	1966 Sep 28 1805	Arcas	-	EXAMETNET C12A?	Arcasonde 2B	-	-	-	CELPA	-	-	-	69?	-	-
1966-W340	2439396.50	1966 Sep 28	Arcas	-	-	Gerdien Condenser	-	-	-	FC	-	-	-	60?	-	-
1966-W339	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W341	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W342	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W343	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W344	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W345	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W346	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W347	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W348	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W349	2439398.50	1966 Oct	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W459	2439399.52	1966 Oct 1 0033	Arcas	-	EXAMETNET W18	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1966-W460	2439403.50	1966 Oct 5 0007	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-W354	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W355	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W356	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W357	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W358	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W359	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W360	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W361	2439429.50	1966 Nov	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-A137	2439438.50	1966 Nov 9	Arcas	-	-	-	-	-	-	V	-	-	-	30?	-	-
1966-W436	2439439.35	1966 Nov 9 2031	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1966-Y45	2439440.88	1966 Nov 11 0901	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y46	2439441.09	1966 Nov 11 1406	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y47	2439441.25	1966 Nov 11 1800	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y48	2439442.02	1966 Nov 12 1233	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y49	2439442.04	1966 Nov 12 1303	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y50	2439442.08	1966 Nov 12 1400	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y51	2439442.10	1966 Nov 12 1431	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y52	2439442.21	1966 Nov 12 1702	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y53	2439441.50	1966 Nov 12	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y54	2439441.50	1966 Nov 12	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y55	2439441.50	1966 Nov 12	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-Y56	2439441.50	1966 Nov 12	Arcas	-	-	Eclipse	-	-	-	TART	-	-	-	90?	-	-
1966-W492	2439446.13	1966 Nov 16 1505	Arcas	-	EXAMETNET N16	Arcasonde 1A	-	-	-	CLBI	-	-	-	60	-	-
1966-W437	2439446.17	1966 Nov 16 1606	Arcas	-	EXAMETNET W21	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-
1966-W376	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W377	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W378	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W379	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W380	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W381	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W382	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W383	2439459.50	1966 Dec	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1966-W384	2439469.65	1966 Dec 10 0337	Arcas	-	-	Scanner 2 support	-	-	-	ANT	-	-	-	56	-	-
1966-W386	2439469.66	1966 Dec 10 0352	Arcas	-	-	Scanner 2 support	-	-	-	WI	-	-	-	55	-	-
1966-W387	2439469.67	1966 Dec 10 0400	Arcas	-	-	Scanner 2 support	-	-	-	WS	-	-	-	56	-	-
1966-A150	2439469.77	1966 Dec 10 0628	Arcas	-	-	Scanner 2 support	-	-	-	EGL	-	-	-	46	-	-
1966-W389	2439469.77	1966 Dec 10 0630	Arcas	-	-	Scanner 2 support	-	-	-	SHER	-	-	-	65	-	-
1966-W391	2439469.88	1966 Dec 10 0900	Arcas	-	-	Scanner 2 support	-	-	-	FC	-	-	-	54	-	-
1966-W392	2439470.26	1966 Dec 10 1812?	Arcas	-	-	PEPP support	-	-	-	WS	-	-	-	60?	-	-
1966-M141	2439471.50	1966 Dec 12	Arcas	-	-	PSU-Arcas	-	-	-	WS	-	-	-	70?	-	-
1966-W407	2439473.29	1966 Dec 13 1900	Arcas	-	-	PSU-Arcas #16	-	-	-	WS	-	-	-	70	-	-
1967-W01	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W02	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W03	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W04	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W05	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W06	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W07	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W08	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W09	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-W10	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W11	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W12	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W13	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W14	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W15	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W16	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W17	2439490.50	1967 Jan	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W240	2439509.17	1967 Jan 18 1604	Arcas	-	EXAMETNET W23	Arcasonde IA	-	-	-	WI	-	-	-	53	-	-
1967-M157	2439510.48	1967 Jan 19 2329	Arcas	-	-	-	-	-	-	EGL	-	-	-	60?	-	-
1967-M158	2439510.48	1967 Jan 19 2334	Arcas	-	-	-	-	-	-	EGL	-	-	-	60?	-	-
1967-W294	2439513.75	1967 Jan 23 0600	Arcas	-	-	Arcasonde IA	-	-	-	WS	-	-	-	59	-	-
1967-W295	2439513.88	1967 Jan 23 0900	Arcas	-	-	Arcasonde IA	-	-	-	WS	-	-	-	60	-	-
1967-W296	2439514.00	1967 Jan 23 1200	Arcas	-	-	Arcasonde IA	-	-	-	WS	-	-	-	63	-	-
1967-W297	2439514.26	1967 Jan 23 1815	Arcas	-	-	Arcasonde IA	-	-	-	WS	-	-	-	59	-	-
1967-W298	2439514.28	1967 Jan 23 1841	Arcas	-	-	Arcasonde IA	-	-	-	WS	-	-	-	56	-	-
1967-W241	2439516.19	1967 Jan 25 1639	Arcas	-	EXAMETNET W24	Arcasonde IA	-	-	-	WI	-	-	-	50	-	-
1967-M22	2439521.10	1967 Jan 30 1430	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-M23	2439522.12	1967 Jan 31 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W242	2439522.32	1967 Jan 31 1935	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W18	2439522.42	1967 Jan 31 2200	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	60?	-	-
1967-W38	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W39	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W40	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W41	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W42	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W43	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W44	2439521.50	1967 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W45	2439523.10	1967 Feb 1 1430	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W243	2439523.28	1967 Feb 1 1838	Arcas	-	EXAMETNET W25	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1967-W244	2439525.27	1967 Feb 3 1825	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W245	2439537.20	1967 Feb 15 1651	Arcas	-	EXAMETNET W27	Arcasonde IA	-	-	-	WI	-	-	-	61	-	-
1967-W49	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W50	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W51	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W52	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W53	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W54	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W55	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W56	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W57	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W58	2439549.50	1967 Mar	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-M24	2439551.12	1967 Mar 1 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-M25	2439552.17	1967 Mar 2 1600	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W246	2439558.14	1967 Mar 8 1521	Arcas	-	EXAMETNET W29	Arcasonde IA	-	-	-	WI	-	-	-	59	-	-
1967-W247	2439574.30	1967 Mar 24 1913	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W75	2439581.28	1967 Mar 31 1844	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	58	-	-
1967-W62	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W63	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W64	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W65	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W66	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W67	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W68	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W69	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W70	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W71	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W72	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W73	2439580.50	1967 Apr	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W77	2439584.89	1967 Apr 4 0927	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	63	-	-
1967-W79	2439584.92	1967 Apr 4 1002	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	63	-	-
1967-W81	2439584.97	1967 Apr 4 1119	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	63	-	-
1967-W84	2439585.20	1967 Apr 4 1643	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	58	-	-
1967-W85	2439585.29	1967 Apr 4 1902	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	60	-	-
1967-W87	2439585.46	1967 Apr 4 2259	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	59	-	-
1967-W89	2439585.52	1967 Apr 5 0032	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	53	-	-
1967-W91	2439585.56	1967 Apr 5 0129	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	61	-	-
1967-W93	2439585.67	1967 Apr 5 0358	Arcas	-	-	Japan-US	-	-	-	WI	-	-	-	60	-	-
1967-W250	2439587.40	1967 Apr 6 2143	Arcas	-	EXAMETNET W33	Arcasonde IA	-	-	-	WI	-	-	-	61	-	-
1967-W251	2439592.27	1967 Apr 11 1825	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-M26	2439593.12	1967 Apr 12 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W321	2439593.13	1967 Apr 12 1509	Arcas	-	EXAMETNET W34	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1967-W252	2439595.13	1967 Apr 14 1501	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-M27	2439600.12	1967 Apr 19 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W253	2439601.25	1967 Apr 20 1806	Arcas	-	EXAMETNET W35	Arcasonde IA	-	-	-	WI	-	-	-	63	-	-
1967-A71	2439601.36	1967 Apr 20 2035	Arcas	-	NASA 15.55GT	Tone ranging test	-	-	-	WI	-	-	-	47	-	-
1967-W254	2439607.12	1967 Apr 26 1451	Arcas	-	EXAMETNET W36	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1967-W105	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W106	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W107	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W108	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W109	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W110	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W111	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W112	2439610.50	1967 May	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W268	2439614.09	1967 May 3 1407	Arcas	-	EXAMETNET W37	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-W340	2439614.67	1967 May 4 0403	Arcas	-	-	Robin	-	-	-	PM	-	-	-	60?	-	-
1967-W341	2439614.67	1967 May 4 0403	Arcas	-	-	Robin	-	-	-	V	-	-	-	60?	-	-
1967-W337	2439615.19	1967 May 4 1629	Arcas	-	-	Robin	-	-	-	SNI	-	-	-	60?	-	-
1967-W338	2439615.19	1967 May 4 1629	Arcas	-	-	Robin	-	-	-	V	-	-	-	60?	-	-
1967-W339	2439615.19	1967 May 4 1629	Arcas	-	-	Robin	-	-	-	PM	-	-	-	60?	-	-
1967-W269	2439615.36	1967 May 4 2033	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W291	2439615.81	1967 May 5 0726	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-M28	2439621.12	1967 May 10 1500	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-M29	2439621.17	1967 May 10 1600	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W270	2439621.25	1967 May 10 1758	Arcas	-	EXAMETNET W38	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1967-W271	2439628.10	1967 May 17 1429	Arcas	-	EXAMETNET W39	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1967-W118	2439628.18	1967 May 17 1615	Arcas	-	EXAMETNET C20	Arcasonde 2B	-	-	-	CELPA	-	-	-	70	-	-
1967-W272	2439636.28	1967 May 25 1849	Arcas	-	EXAMETNET W40	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-
1967-W119	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W120	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W121	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W122	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W123	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W124	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W125	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W126	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W127	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W128	2439641.50	1967 Jun	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W273	2439644.28	1967 Jun 2 1846	Arcas	-	EXAMETNET W41	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1967-W129	2439648.58	1967 Jun 7 0200	Arcas	-	-	Charged particles	-	-	-	FC	-	-	-	70	-	-
1967-W274	2439649.11	1967 Jun 7 1432	Arcas	-	EXAMETNET W42	Arcasonde IA	-	-	-	WI	-	-	-	60	-	-
1967-W130	2439656.19	1967 Jun 14 1640	Arcas	-	EXAMETNET C21	Arcasonde 2B	-	-	-	CELPA	-	-	-	72	-	-
1967-W275	2439657.24	1967 Jun 15 1742	Arcas	-	EXAMETNET W43	Arcasonde IA	-	-	-	WI	-	-	-	53	-	-
1967-W299	2439661.10	1967 Jun 19 1430?	Arcas	-	-	PEPP support	-	-	-	WS	-	-	-	50?	-	-
1967-W276	2439663.09	1967 Jun 21 1414	Arcas	-	EXAMETNET W44	Arcasonde IA	-	-	-	WI	-	-	-	55	-	-
1967-W132	2439663.34	1967 Jun 21 2006	Arcas	-	NASA 15.13UP	Chaff test	-	-	-	WI	-	-	-	60?	-	-
1967-W277	2439670.13	1967 Jun 28 1501	Arcas	-	EXAMETNET W45	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1967-W138	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W139	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W140	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W141	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W142	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W143	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W144	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W145	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W146	2439671.50	1967 Jul	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W278	2439677.11	1967 Jul 5 1442	Arcas	-	EXAMETNET W46	Arcasonde IA	-	-	-	WI	-	-	-	65	-	-
1967-M30	2439677.50	1967 Jul 6	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W325	2439692.34	1967 Jul 20 2011	Arcas	-	EXAMETNET W47	Arcasonde IA	-	-	-	WI	-	-	-	59	-	-
1967-W279	2439698.09	1967 Jul 26 1414	Arcas	-	EXAMETNET W48	Arcasonde IA	-	-	-	WI	-	-	-	64	-	-
1967-W156	2439699.50	1967 Jul 28	Arcas	-	-	PEPP support	-	-	-	WS	-	-	-	60?	-	-
1967-W280	2439700.08	1967 Jul 28 1359	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W157	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W158	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W159	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W160	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W161	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W162	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W163	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W164	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W165	2439702.50	1967 Aug	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W166	2439705.46	1967 Aug 2 2258	Arcas	-	NASA 15.16DA	OGO 4 Ozone test	-	-	-	PM	-	-	-	52	-	-
1967-W292	2439711.53	1967 Aug 9 0043	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W293	2439711.56	1967 Aug 9 0130	Arcas	-	EXAMETNET W49	Arcasonde IA	-	-	-	WI	-	-	-	49	-	-
1967-A104	2439711.98	1967 Aug 9 1127	Arcas	-	-	Biospace (Rat)	-	-	-	WI	-	-	-	40	-	-
1967-M31	2439718.50	1967 Aug 16	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W281	2439719.23	1967 Aug 16 1730	Arcas	-	EXAMETNET W50	Arcasonde IA	-	-	-	WI	-	-	-	62	-	-
1967-W282	2439721.09	1967 Aug 18 1411	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W170	2439724.31	1967 Aug 21 1932	Arcas	-	NASA 15.17DA	OGO 4 Ozone test	-	-	-	PM	-	-	-	54	-	-
1967-W171	2439724.50	1967 Aug 22	Arcas	-	#76	-	-	-	-	WS	-	-	-	68	-	-
1967-W283	2439728.10	1967 Aug 25 1417	Arcas	-	EXAMETNET W51	Arcasonde IA	-	-	-	WI	-	-	-	58	-	-
1967-W284	2439733.26	1967 Aug 30 1818	Arcas	-	EXAMETNET W52	Arcasonde IA	-	-	-	WI	-	-	-	57	-	-
1967-W174	2439733.50	1967 Sep	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W175	2439733.50	1967 Sep	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W176	2439733.50	1967 Sep	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W285	2439740.11	1967 Sep 6 1435	Arcas	-	EXAMETNET W53	Arcasonde IA	-	-	-	WI	-	-	-	55	-	-
1967-W286	2439742.10	1967 Sep 8 1418	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W179	2439747.52	1967 Sep 14 0029	Arcas	-	NASA 15.35DA	OGO 4	-	-	-	KAU	-	-	-	60	-	-
1967-W287	2439749.07	1967 Sep 15 1345	Arcas	-	EXAMETNET W54	Arcasonde IA	-	-	-	WI	-	-	-	51	-	-
1967-W181	2439750.51	1967 Sep 17 0015	Arcas	-	NASA 15.36DA	OGO 4	-	-	-	KAU	-	-	-	56	-	-
1967-W184	2439752.50	1967 Sep 19	Arcas	-	#91	-	-	-	-	WS	-	-	-	64	-	-
1967-W185	2439752.50	1967 Sep 19	Arcas	-	#96	-	-	-	-	WS	-	-	-	65	-	-
1967-W186	2439753.50	1967 Sep 20 0000	Arcas	-	NASA 15.37DA	OGO 4	-	-	-	KAU	-	-	-	53	-	-
1967-W187	2439753.50	1967 Sep 20	Arcas	-	#98	-	-	-	-	WS	-	-	-	73	-	-
1967-W288	2439754.15	1967 Sep 20 1529	Arcas	-	EXAMETNET W55	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-
1967-W289	2439756.15	1967 Sep 22 1530	Arcas	-	-	Arcasonde IA	-	-	-	WI	-	-	-	60?	-	-
1967-W290	2439761.11	1967 Sep 27 1445	Arcas	-	EXAMETNET W56	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-
1967-W189	2439763.50	1967 Oct	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W190	2439763.50	1967 Oct	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W191	2439763.50	1967 Oct	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W322	2439768.50	1967 Oct 5 0007	Arcas	-	EXAMETNET W57	Arcasonde IA	-	-	-	WI	-	-	-	54	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-W255	2439769.09	1967 Oct 5 1413	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1967-W256	2439770.27	1967 Oct 6 1834	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1967-W257	2439776.15	1967 Oct 12 1530	Arcas	-	EXAMETNET W58	Arcasonde 1A	-	-	-	WI	-	-	-	50	-	-
1967-W194	2439777.40	1967 Oct 13 2134	Arcas	-	NASA 15.38DA	OGO 4	-	-	-	KAU	-	-	-	59	-	-
1967-W192	2439777.48	1967 Oct 13 2335	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W197	2439783.38	1967 Oct 19 2104	Arcas	-	NASA 15.39DA	OGO 4	-	-	-	KAU	-	-	-	58	-	-
1967-W258	2439784.08	1967 Oct 20 1350	Arcas	-	EXAMETNET W59	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1967-W200	2439786.37	1967 Oct 22 2046	Arcas	-	NASA 15.40DA	OGO 4	-	-	-	KAU	-	-	-	59	-	-
1967-W259	2439789.10	1967 Oct 25 1417	Arcas	-	EXAMETNET W60	Arcasonde 1A	-	-	-	WI	-	-	-	55	-	-
1967-W204	2439789.35	1967 Oct 25 2030	Arcas	-	NASA 15.41DA	OGO 4	-	-	-	KAU	-	-	-	59	-	-
1967-M32	2439790.50	1967 Oct 27	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W260	2439791.12	1967 Oct 27 1455	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1967-W206	2439794.50	1967 Nov	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W207	2439794.50	1967 Nov	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W208	2439794.50	1967 Nov	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W209	2439794.50	1967 Nov	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W210	2439794.50	1967 Nov	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W261	2439798.23	1967 Nov 3 1726	Arcas	-	EXAMETNET W61	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1967-W212	2439802.50	1967 Nov 8	Arcas	-	#119 R-112	-	-	-	-	WS	-	-	-	72	-	-
1967-W217	2439809.50	1967 Nov 15	Arcas	-	#118 R-113	-	-	-	-	WS	-	-	-	70	-	-
1967-W218	2439809.50	1967 Nov 15	Arcas	-	#117 R-112	-	-	-	-	WS	-	-	-	68	-	-
1967-W219	2439810.16	1967 Nov 15 1557	Arcas	-	EXAMETNET C26	Arcasonde 2B	-	-	-	CELPA	-	-	-	70	-	-
1967-W262	2439812.15	1967 Nov 17 1542	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1967-W263	2439816.14	1967 Nov 21 1515	Arcas	-	EXAMETNET W63	Arcasonde 1A	-	-	-	WI	-	-	-	51	-	-
1967-W264	2439824.33	1967 Nov 29 1953	Arcas	-	EXAMETNET W64	Arcasonde 1A	-	-	-	WI	-	-	-	57	-	-
1967-W228	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W229	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W230	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W231	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W232	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W233	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-W234	2439824.50	1967 Dec	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1967-A141	2439831.46	1967 Dec 6 2303	Arcas	-	-	Particles	-	-	-	FC	-	-	-	42	-	-
1967-W265	2439833.25	1967 Dec 8 1759	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1967-W266	2439838.26	1967 Dec 13 1816	Arcas	-	EXAMETNET W66	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1967-M33	2439842.50	1967 Dec 18	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1967-W267	2439844.36	1967 Dec 19 2041	Arcas	-	-	Arcasonde 1A	-	-	-	WI	-	-	-	60?	-	-
1968-W01	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W02	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W03	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W04	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W05	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W06	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W07	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W08	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W09	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W10	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W11	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W12	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W13	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W14	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W15	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W16	2439855.50	1968 Jan	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W17	2439860.33	1968 Jan 4 2000	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W312	2439861.20	1968 Jan 5 1650	Arcas	-	EXAMETNET W 67	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1968-W278	2439864.53	1968 Jan 9 0050	Arcas	-	-	Ozonesonde	-	-	-	WS	-	-	-	60?	-	-
1968-W279	2439864.71	1968 Jan 9 0500	Arcas	-	-	Ozonesonde	-	-	-	WS	-	-	-	60?	-	-
1968-W280	2439865.07	1968 Jan 9 1335	Arcas	-	-	Ozonesonde	-	-	-	WS	-	-	-	60?	-	-
1968-W281	2439865.22	1968 Jan 9 1715	Arcas	-	-	Ozonesonde	-	-	-	WS	-	-	-	60?	-	-
1968-W282	2439865.43	1968 Jan 9 2215	Arcas	-	-	Ozonesonde	-	-	-	WS	-	-	-	50?	-	-
1968-W313	2439866.28	1968 Jan 10 1840	Arcas	-	EXAMETNET W 68	Arcasonde 1A	-	-	-	WI	-	-	-	58	-	-
1968-W314	2439873.17	1968 Jan 17 1612	Arcas	-	EXAMETNET W 69	Arcasonde 1A	-	-	-	WI	-	-	-	58	-	-
1968-W29	2439873.23	1968 Jan 17 1725	Arcas	-	EXAMETNET C28	Arcasonde 2B	-	-	-	CELPA	-	-	-	71	-	-
1968-Y08	2439877.50	1968 Jan 22	Arcas	-	-	Quark 1 (MRCMcD)	-	-	-	WS	-	-	-	80	-	-
1968-W315	2439882.17	1968 Jan 26 1559	Arcas	-	EXAMETNET W 70	Arcasonde 1A	-	-	-	WI	-	-	-	55	-	-
1968-W33	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W34	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W35	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W36	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W37	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W38	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W39	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W40	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W41	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W42	2439886.50	1968 Feb	Arcas	-	-	Arcasonde 1A?	-	-	-	FC	-	-	-	60?	-	-
1968-W43	2439892.47	1968 Feb 5 2314	Arcas	-	-	Arcasonde 1A	-	-	-	FC	-	-	-	65?	-	-
1968-W317	2439901.13	1968 Feb 14 1513	Arcas	-	EXAMETNET W 72	Arcasonde 1A	-	-	-	WI	-	-	-	62	-	-
1968-W318	2439907.41	1968 Feb 20 2144	Arcas	-	EXAMETNET W 73	Arcasonde 1A	-	-	-	WI	-	-	-	55	-	-
1968-W319	2439915.14	1968 Feb 28 1528	Arcas	-	EXAMETNET W 74	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1968-M44	2439915.50	1968 Feb 29	Arcas	-	-	Ballute/Arcasonde 1A	-	-	-	CC	-	-	-	60?	-	-
1968-W51	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W52	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W53	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W54	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W55	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W56	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W57	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W58	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W59	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W60	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W61	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W62	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W63	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W64	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W65	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W66	2439915.50	1968 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-Y16	2439921.50	1968 Mar 6	Arcas	-	-	Quark 2 (MRCMcD)	-	-	-	WS	-	-	-	80?	-	-
1968-W320	2439922.13	1968 Mar 6 1503	Arcas	-	EXAMETNET W 75	Arcasonde 1A	-	-	-	WI	-	-	-	59	-	-
1968-W69	2439929.14	1968 Mar 13 1528	Arcas	-	EXAMETNET C30	Arcasonde 1A	-	-	-	CELPA	-	-	-	74	-	-
1968-W321	2439930.12	1968 Mar 14 1500	Arcas	-	EXAMETNET W 76	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1968-W322	2439937.18	1968 Mar 21 1618	Arcas	-	EXAMETNET W 77	Arcasonde 1A	-	-	-	WI	-	-	-	56	-	-
1968-W71	2439943.17	1968 Mar 27 1558:00	Arcas	-	EXAMETNET C32	Arcasonde 1A	-	-	-	CELPA	-	-	-	75	-	-
1968-W323	2439943.28	1968 Mar 27 1841	Arcas	-	EXAMETNET W 78	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W73	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W74	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W75	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W76	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W77	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W78	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W79	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W80	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W81	2439946.50	1968 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W324	2439950.17	1968 Apr 3 1559	Arcas	-	EXAMETNET W 79	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W285	2439952.25	1968 Apr 5 1807	Arcas	-	-	Arcasonde 1A	-	-	-	PRIM	-	-	-	60?	-	-
1968-W85	2439954.50	1968 Apr 8	Super Arcas	-	NASA 12.11GM	-	-	-	-	WI	-	-	-	60?	-	-
1968-W86	2439956.59	1968 Apr 10 0210:00	Arcas	-	EXAMETNET C34	Arcasonde 1A	-	-	-	CELPA	-	-	-	75	-	-
1968-W325	2439957.13	1968 Apr 10 1505	Arcas	-	EXAMETNET W 80	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W91	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W92	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W93	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W94	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W95	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W96	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W97	2439976.50	1968 May	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W329	2439985.12	1968 May 8 1459	Arcas	-	EXAMETNET W 84	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W330	2439992.22	1968 May 15 1712	Arcas	-	EXAMETNET W 85	Arcasonde 1A	-	-	-	WI	-	-	-	58	-	-
1968-W105	2439993.77	1968 May 17 0630	Arcas	?	Sandia	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1968-W106	2439994.10	1968 May 17 1430	Arcas	?	Sandia	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1968-W107	2439994.48	1968 May 17 2337	Arcas	?	Sandia	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1968-Y30	2439998.50	1968 May 22	Arcas	-	-	Quark 3 (MRCMcD)	-	-	-	WS	-	-	-	80?	-	-
1968-W331	2439999.10	1968 May 22 1420	Arcas	-	EXAMETNET W 86	Arcasonde 1A	-	-	-	WI	-	-	-	63	-	-
1968-W110	2440000.31	1968 May 23 1930	Arcas	?	Sandia	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1968-W112	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W113	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W114	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W115	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W116	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W117	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W118	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W119	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W120	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W121	2440007.50	1968 Jun	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W332	2440013.30	1968 Jun 5 1915	Arcas	-	EXAMETNET W 87	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W333	2440021.09	1968 Jun 13 1413	Arcas	-	EXAMETNET W 88	Arcasonde 1A	-	-	-	WI	-	-	-	57	-	-
1968-W125	2440021.26	1968 Jun 13 1820:00	Arcas	-	EXAMETNET C38	Arcasonde 1A	-	-	-	CELAT	-	-	-	62	-	-
1968-W334	2440027.11	1968 Jun 19 1432	Arcas	-	EXAMETNET W 89	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W129	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W130	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W131	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W132	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W133	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W134	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W135	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W136	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W137	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W138	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W139	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W140	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W141	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W142	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W143	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W144	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W145	2440037.50	1968 Jul	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W335	2440040.16	1968 Jul 2 1554	Arcas	-	EXAMETNET W 90	Arcasonde 1A	-	-	-	WI	-	-	-	54	-	-
1968-W336	2440048.12	1968 Jul 10 1447	Arcas	-	EXAMETNET W 91	Arcasonde 1A	-	-	-	WI	-	-	-	54	-	-
1968-W152	2440053.57	1968 Jul 16 0145:00	Arcas	-	EXAMETNET C40	Arcasonde 1A	-	-	-	CELAT	-	-	-	56	-	-
1968-W337	2440055.09	1968 Jul 17 1412	Arcas	-	EXAMETNET W 92	Arcasonde 1A	-	-	-	WI	-	-	-	57	-	-
1968-W154	2440056.26	1968 Jul 18 1813	Arcas	-	FC-OR-348	Ozonosonde	-	-	-	FC	-	-	-	60?	-	-
1968-W286	2440057.23	1968 Jul 19 1732	Arcas	-	-	Arcasonde 1A	-	-	-	PRIM	-	-	-	60?	-	-
1968-W155	2440057.27	1968 Jul 19 1836	Arcas	-	FC-OR-348	Ozonosonde	-	-	-	FC	-	-	-	60?	-	-
1968-W338	2440062.13	1968 Jul 24 1506	Arcas	-	EXAMETNET W 93	Arcasonde 1A	-	-	-	WI	-	-	-	58	-	-
1968-W307	2440062.17	1968 Jul 24 1602	Arcas	-	EXAMETNET N40	Arcasonde 1A	-	-	-	CLBI	-	-	-	60	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W339	2440069.18	1968 Jul 31 1618	Arcas	-	EXAMETNET W 94	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W156	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W157	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W158	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W159	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W160	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W161	2440068.50	1968 Aug	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W341	2440083.23	1968 Aug 14 1730	Arcas	-	EXAMETNET W 96	Arcasonde 1A	-	-	-	WI	-	-	-	59	-	-
1968-A89	2440083.48	1968 Aug 14 2328:00	Arcas	-	EXAMETNET C42	Arcasonde 1A	-	-	-	CELAT	-	-	-	48	-	-
1968-W342	2440090.06	1968 Aug 21 1321	Arcas	-	EXAMETNET W 97	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W343	2440097.10	1968 Aug 28 1421	Arcas	-	EXAMETNET W 98	Arcasonde 1A	-	-	-	WI	-	-	-	53	-	-
1968-W171	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W172	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W173	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W174	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W175	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W176	2440099.50	1968 Sep	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W344	2440104.16	1968 Sep 4 1544	Arcas	-	EXAMETNET W 99	Arcasonde 1A	-	-	-	WI	-	-	-	54	-	-
1968-W345	2440111.26	1968 Sep 11 1810	Arcas	-	EXAMETNET W 100	Arcasonde 1A	-	-	-	WI	-	-	-	61	-	-
1968-W284	2440111.26	1968 Sep 11 1821	Arcas	?	Arcasonde	-	-	-	-	SNI	-	-	-	60?	-	-
1968-W187	2440116.25	1968 Sep 16 1807	Arcas	-	NASA 15.60UE	NOTS Ozone	-	-	-	WI	-	-	-	55	-	-
1968-M67	2440116.26	1968 Sep 16 1812	Arcas	-	-	Ozone comp test	-	-	-	WI	-	-	-	52	-	-
1968-W346	2440118.11	1968 Sep 18 1441	Arcas	-	EXAMETNET W 101	Arcasonde 1A	-	-	-	WI	-	-	-	61	-	-
1968-W308	2440118.14	1968 Sep 18 1519	Arcas	-	EXAMETNET N41	Arcasonde 1A	-	-	-	CLBI	-	-	-	59	-	-
1968-W293	2440119.65	1968 Sep 20 0340	Arcas	-	EXAMETNET C44	Arcasonde 1A	-	-	-	CELAT	-	-	-	70	-	-
1968-W189	2440124.57	1968 Sep 25 0140	Arcas	-	PSU-NO-1	-	-	-	-	WS	-	-	-	70?	-	-
1968-W347	2440125.10	1968 Sep 25 1424	Arcas	-	EXAMETNET W 102	Arcasonde 1A	-	-	-	WI	-	-	-	58	-	-
1968-W190	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W191	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W192	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W193	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W194	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W195	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W196	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W197	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W198	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W199	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W200	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W201	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W202	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W203	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W204	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W205	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W206	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W207	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W208	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W209	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W210	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W211	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W212	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W213	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W214	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W215	2440129.50	1968 Oct	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W348	2440132.24	1968 Oct 2 1745	Arcas	-	EXAMETNET W 103	Arcasonde 1A	-	-	-	WI	-	-	-	61	-	-
1968-W287	2440139.27	1968 Oct 9 1829	Arcas	-	-	Arcasonde 1A	-	-	-	PRIM	-	-	-	60?	-	-
1968-W296	2440140.27	1968 Oct 10 1835	Arcas	-	EXAMETNET C47	Arcasonde 1A	-	-	-	CELAT	-	-	-	62	-	-
1968-W227	2440140.29	1968 Oct 10 1900:00	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1968-W309	2440146.13	1968 Oct 16 1514	Arcas	-	EXAMETNET N52	Arcasonde 1A	-	-	-	CLBI	-	-	-	62	-	-
1968-W350	2440146.31	1968 Oct 16 1920	Arcas	-	EXAMETNET W 105	Arcasonde 1A	-	-	-	WI	-	-	-	61	-	-
1968-W292	2440153.25	1968 Oct 23 1800	Arcas	-	PEPP meteo	-	-	-	-	WS	-	-	-	60?	-	-
1968-W351	2440153.26	1968 Oct 23 1810	Arcas	-	EXAMETNET W 106	Arcasonde 1A	-	-	-	WI	-	-	-	69	-	-
1968-W352	2440160.20	1968 Oct 30 1652	Arcas	-	EXAMETNET W 107	Arcasonde 1A	-	-	-	WI	-	-	-	60	-	-
1968-W231	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W232	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W233	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W234	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W235	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W236	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W237	2440160.50	1968 Nov	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W310	2440174.15	1968 Nov 13 1530	Arcas	-	EXAMETNET N53	Arcasonde 1A	-	-	-	CLBI	-	-	-	61	-	-
1968-W297	2440174.30	1968 Nov 13 1910	Arcas	-	EXAMETNET C48	Arcasonde 1A	-	-	-	CELAT	-	-	-	76	-	-
1968-W250	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W251	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W252	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W253	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W254	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W255	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W256	2440190.50	1968 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W265	2440197.55	1968 Dec 7 0105	Arcas	-	PSU-NO-2	-	-	-	-	WS	-	-	-	70?	-	-
1968-W353	2440202.37	1968 Dec 11 2059	Arcas	-	EXAMETNET W 113	Arcasonde 1A	-	-	-	WI	-	-	-	67	-	-
1968-W266	2440203.55	1968 Dec 13 0105	Arcas	-	PSU-NO-3	-	-	-	-	WS	-	-	-	70?	-	-
1968-W267	2440204.14	1968 Dec 13 1515	Arcas	?	-	-	-	-	-	BARB	-	-	-	76	-	-
1968-W268	2440204.22	1968 Dec 13 1720	Arcas	?	-	-	-	-	-	BARB	-	-	-	78	-	-
1968-W269	2440204.73	1968 Dec 14 0527	Arcas	?	-	-	-	-	-	BARB	-	-	-	76	-	-
1968-W270	2440204.80	1968 Dec 14 0715	Arcas	?	-	-	-	-	-	BARB	-	-	-	79	-	-
1968-Y103	2440204.89	1968 Dec 14 0919	Arcas	?	-	-	-	-	-	BARB	-	-	-	81	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-Y104	2440204.92	1968 Dec 14 1000	Arcas	?	-	-	-	-	-	BARB	-	-	-	80	-	-
1968-W271	2440204.98	1968 Dec 14 1127	Arcas	?	-	-	-	-	-	BARB	-	-	-	79	-	-
1968-W288	2440208.55	1968 Dec 18 0105	Arcas	-	PSU-NO-4	Control flight	-	-	-	WS	-	-	-	70?	-	-
1968-W258	2440209.12	1968 Dec 18 1500	Arcas	-	EXAMETNET N54	Arcasonde 1A	-	-	-	CLBI	-	-	-	58	-	-
1968-W257	2440209.25	1968 Dec 18 1802	Arcas	-	EXAMETNET C50	Arcasonde 1A	-	-	-	CELAT	-	-	-	72	-	-
1969-W01	2440221.50	1969 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W02	2440221.50	1969 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W03	2440221.50	1969 Jan	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W29	2440229.25	1969 Jan 7 1755:00	Arcas	?	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	65	-	-
1969-W37	2440230.25	1969 Jan 8 1807:00	Arcas	?	-	Met Para	-	-	-	FC	-	-	-	54	-	-
1969-W40	2440231.24	1969 Jan 9 1747:00	Arcas	?	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	65	-	-
1969-W105	2440242.28	1969 Jan 20 1841:00	Arcas	?	-	Met Para	-	-	-	FC	-	-	-	51	-	-
1969-Y34	2440242.29	1969 Jan 20 1900	Arcas	?	-	-	-	-	-	SHER	-	-	-	81	-	-
1969-W107	2440242.32	1969 Jan 20 1936:59	Arcas	?	-	Met Para	-	-	-	FC	-	-	-	50	-	-
1969-W109	2440242.35	1969 Jan 20 2026:00	Arcas	?	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	57	-	-
1969-W112	2440243.21	1969 Jan 21 1700	Arcas	?	-	-	-	-	-	SHER	-	-	-	77	-	-
1969-Y35	2440243.72	1969 Jan 22 0515	Arcas	?	-	-	-	-	-	SHER	-	-	-	84	-	-
1969-W118	2440243.96	1969 Jan 22 1100	Arcas	?	-	-	-	-	-	SHER	-	-	-	76	-	-
1969-W119	2440243.97	1969 Jan 22 1110:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	74	-	-
1969-Y37	2440244.23	1969 Jan 22 1730	Arcas	?	-	-	-	-	-	SHER	-	-	-	94	-	-
1969-W129	2440244.46	1969 Jan 22 2300:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	77	-	-
1969-Y40	2440244.71	1969 Jan 23 0503:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	81	-	-
1969-Y45	2440245.21	1969 Jan 23 1700:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	83	-	-
1969-Y49	2440246.21	1969 Jan 24 1701:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	80	-	-
1969-Y58	2440249.17	1969 Jan 27 1600:00	Arcas	?	-	-	-	-	-	SHER	-	-	-	83	-	-
1969-W174	2440252.37	1969 Jan 30 2051:00	Arcas	?	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	55	-	-
1969-W183	2440253.26	1969 Jan 31 1821	Arcas	-	NASA 15.61DM	-	-	-	-	WI	-	-	-	54	-	-
1969-W217	2440259.25	1969 Feb 6 1800	Arcas	-	NASA 15.62DM	-	-	-	-	WI	-	-	-	56	-	-
1969-W289	2440272.51	1969 Feb 20 0014:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	64	-	-
1969-W296	2440274.24	1969 Feb 21 1749:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	57	-	-
1969-W334	2440284.69	1969 Mar 4 0437:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	60	-	-
1969-W369	2440292.31	1969 Mar 11 1930:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	61	-	-
1969-W384	2440293.69	1969 Mar 13 0430:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	63	-	-
1969-W472	2440311.50	1969 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W473	2440311.50	1969 Apr	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W533	2440323.64	1969 Apr 12 0315:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	57	-	-
1969-W582	2440333.61	1969 Apr 22 0238:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	62	-	-
1969-W640	2440344.18	1969 May 2 1618:59	Arcas	?	-	Met Para,Datasonde	-	-	-	FC	-	-	-	68	-	-
1969-W826	2440385.27	1969 Jun 12 1832	Arcas	-	NASA 12.12GM	-	-	-	-	WI	-	-	-	73	-	-
1969-W1747	2440391.29	1969 Jun 18 1900	Arcas	-	-	PEPP support	-	-	-	WS	-	-	-	60?	-	-
1969-W1046	2440439.67	1969 Aug 6 0359	Arcas	-	-	Arcas C-H-I	-	-	-	FC	-	-	-	52	-	-
1969-W1249	2440481.22	1969 Sep 16 1715	Arcas	-	-	Arcas C-H-10	-	-	-	FC	-	-	-	66	-	-
1969-W1278	2440486.50	1969 Sep 22	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1969-W1479	2440528.73	1969 Nov 3 0535	Arcas	-	-	PCA69 H-01	-	-	-	FC	-	-	-	66	-	-
1969-W1480	2440528.79	1969 Nov 3 0700	Arcas	-	-	PCA69 H-02	-	-	-	FC	-	-	-	67	-	-
1969-W1481	2440529.02	1969 Nov 3 1228	Arcas	-	-	PCA69 H-03	-	-	-	FC	-	-	-	64	-	-
1969-W1484	2440529.09	1969 Nov 3 1405	Arcas	-	-	PCA69 H-04	-	-	-	FC	-	-	-	65	-	-
1969-W1485	2440529.19	1969 Nov 3 1629	Arcas	-	-	PCA69 H-05	-	-	-	FC	-	-	-	66	-	-
1969-A186	2440530.32	1969 Nov 4 1943	Arcas	-	-	PCA69 H-06	-	-	-	FC	-	-	-	69	-	-
1969-W1496	2440530.43	1969 Nov 4 2220	Arcas	-	-	PCA69 H-07	-	-	-	FC	-	-	-	70	-	-
1969-W1497	2440530.48	1969 Nov 4 2325	Arcas	-	-	PCA69 H-08	-	-	-	FC	-	-	-	68	-	-
1969-W1498	2440530.50	1969 Nov 4 2357	Arcas	-	-	PCA69 H-09	-	-	-	FC	-	-	-	70	-	-
1969-W1600	2440555.50	1969 Dec	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W1631	2440561.50	1969 Dec 06	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1969-W1656	2440567.50	1969 Dec 12	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1969-W1699	2440574.50	1969 Dec 19	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1969-W1710	2440578.24	1969 Dec 22 1748:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	62	-	-
1969-W1721	2440580.24	1969 Dec 24 1748:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	55	-	-
1969-W1741	2440587.28	1969 Dec 31 1841:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	61	-	-
1970-W92	2440601.27	1970 Jan 14 1826:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1970-W99	2440603.20	1970 Jan 16 1653	Arcas	-	NASA 15.56UE	-	-	-	-	WI	-	-	-	60?	-	-
1970-W133	2440608.25	1970 Jan 21 1800:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1970-W289	2440641.81	1970 Feb 24 0720	Arcas	-	NASA 15.72UI	-	-	-	-	FC	-	-	-	60?	-	-
1970-W321	2440645.50	1970 Mar	Arcas	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1970-W325	2440647.24	1970 Mar 1 1752	Arcas	-	NASA 15.73UI	-	-	-	-	FC	-	-	-	60?	-	-
1970-W349	2440652.28	1970 Mar 6 1839	Arcas	-	NASA 15.66UE	-	-	-	-	WI	LA2	-	-	60?	-	-
1970-W356	2440653.10	1970 Mar 7 1430	Arcas	-	NASA 15.68NM	-	-	-	-	WI	LA2	-	-	60?	-	-
1970-W357	2440653.17	1970 Mar 7 1600	Arcas	-	NASA 15.69NM	-	-	-	-	WI	LA2	-	-	60?	-	-
1970-W359	2440653.24	1970 Mar 7 1745	Arcas	-	NASA 15.70NM	-	-	-	-	WI	LA2	-	-	67	-	-
1970-W360	2440653.29	1970 Mar 7 1857	Arcas	-	NASA 15.71NM	-	-	-	-	WI	LA2	-	-	64	-	-
1970-W361	2440653.31	1970 Mar 7 1925	Arcas	-	NASA 15.67NM	-	-	-	-	WI	LA2	-	-	66	-	-
1970-W362	2440653.33	1970 Mar 07 2000:00	Arcas	-	NASA 15.76NM	?	-	-	-	WI	LA2	-	-	60?	-	-
1970-W363	2440654.24	1970 Mar 8 1745	Arcas	-	NASA 15.78NM	-	-	-	-	WI	LA2	-	-	60?	-	-
1970-W364	2440654.25	1970 Mar 8 1806	Arcas	-	NASA 15.77NM	-	-	-	-	WI	LA2	-	-	60?	-	-
1970-W02	2440674.94	1970 Mar 29 1034:12	Arcas	-	PCA	AFCRL Arcas 70-?	-	-	-	THU	-	-	-	70	-	-
1970-W478	2440678.56	1970 Apr 2 0122:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	61	-	-
1970-W552	2440692.78	1970 Apr 16 0639	Arcas	-	NASA 15.74UI	-	-	-	-	FC	-	-	-	40	-	-
1970-W562	2440694.28	1970 Apr 17 1845:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	63	-	-
1970-W03	2440696.92	1970 Apr 20 1001	Arcas	-	PCA	AFCRL Arcas 70-5?	-	-	-	THU	-	-	-	60?	-	-
1970-W576	2440698.89	1970 Apr 22 0920:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	60	-	-
1970-W04	2440705.94	1970 Apr 29 1036	Arcas	-	PCA	AFCRL Arcas 70-3?	-	-	-	THU	-	-	-	60?	-	-
1970-W05	2440706.02	1970 Apr 29 1234	Arcas	-	PCA	AFCRL Arcas 70-6?	-	-	-	THU	-	-	-	60?	-	-
1970-W01	2440706.08	1970 Apr 29 1358	Arcas	-	PCA	AFCRL Arcas 70-4?	-	-	-	THU	-	-	-	60?	-	-
1970-W614	2440706.21	1970 Apr 29 1656:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	61	-	-
1970-W694	2440721.31	1970 May 14 1923	Arcas	-	NASA 15.57UE	-	-	-	-	V	-	-	-	60?	-	-
1970-W752	2440731.79	1970 May 25 0700:00	Arcas	-	ARCAS	-	-	-	-	WS	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W760	2440732.30	1970 May 25 1914:00	Arcas	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1970-W764	2440732.42	1970 May 25 2204:00	Arcas	-	ARCAS	-	-	-	-	WS	-	-	-	60?	-	-
1970-W765	2440732.49	1970 May 25 2345:00	Arcas	-	ARCAS	-	-	-	-	WS	-	-	-	60?	-	-
1970-W768	2440732.61	1970 May 26 0240:00	Arcas	-	ARCAS	-	-	-	-	WS	-	-	-	60?	-	-
1970-W770	2440732.69	1970 May 26 0440:00	Arcas	-	ARCAS	-	-	-	-	WS	-	-	-	60?	-	-
1970-W902	2440756.39	1970 Jun 18 2126	Arcas	-	NASA 15.79GM	-	-	-	-	V	-	-	-	60?	-	-
1970-A152	2440803.15	1970 Aug 4 1540	Arcas	-	-	Biospace	-	-	-	WI	-	-	-	40	-	-
1970-A153	2440816.50	1970 Aug 18	Arcas	-	-	Biospace (rat)	-	-	-	WI	-	-	-	40	-	-
1970-A154	2440816.50	1970 Aug 18	Arcas	-	-	Biospace (rat)	-	-	-	WI	-	-	-	40	-	-
1970-A155	2440816.50	1970 Aug 18	Arcas	-	-	Biospace (chicken)	-	-	-	WI	-	-	-	40	-	-
1970-A156	2440798.50	1970 Aug	Arcas	-	-	Biospace	-	-	-	WI	-	-	-	40	-	-
1970-W1373	2440846.50	1970 Sep 17	Arcas	-	-	Nimbus cal	-	-	-	WI	-	-	-	60?	-	-
1970-W1374	2440846.50	1970 Sep 17	Arcas	-	-	Nimbus cal	-	-	-	WI	-	-	-	60?	-	-
1970-W1392	2440850.50	1970 Sep 21	Arcas	-	-	Nimbus cal	-	-	-	WI	-	-	-	60?	-	-
1970-W1498	2440870.25	1970 Oct 10 1800	Arcas	-	NASA 15.80GM	-	-	-	-	PRIM	-	-	-	68	-	-
1970-Y258	2440873.64	1970 Oct 14 0320:00	Arcas	-	-	-	-	-	-	WS	-	-	-	85	-	-
1970-W1538	2440877.25	1970 Oct 17 1800	Arcas	-	NASA 15.81GM	-	-	-	-	PRIM	-	-	-	62	-	-
1970-W1644	2440897.20	1970 Nov 6 1645	Arcas	-	NASA 15.82GM	-	-	-	-	SHER	-	-	-	60	-	-
1970-W1669	2440904.20	1970 Nov 13 1645	Arcas	-	NASA 15.83GM	-	-	-	-	SHER	-	-	-	60	-	-
1971-W28	2440960.31	1971 Jan 8 1930:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	56	-	-
1971-W30	2440960.45	1971 Jan 8 2246:59	Arcas	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1971-W42	2440964.25	1971 Jan 12 1800:00	Arcas	-	-	-	-	-	-	WS	-	-	-	60	-	-
1971-W124	2440974.33	1971 Jan 22 2000:00	Arcas	?	WSMR/PSU	Conductivity	-	-	-	WS	-	-	-	76	-	-
1971-W125	2440974.46	1971 Jan 22 2304:00	Arcas	-	-	-	-	-	-	WS	-	-	-	52	-	-
1971-W147	2440978.40	1971 Jan 26 2130:00	Arcas	?	WSMR/PSU	Conductivity	-	-	-	WS	-	-	-	76	-	-
1971-W187	2440984.30	1971 Feb 01 1915:00	Arcas	?	WSMR/PSU	Conductivity	-	-	-	WS	-	-	-	76	-	-
1971-W305	2441007.42	1971 Feb 24 2158	Arcas	-	NASA 15.84GM	-	-	-	-	KAU	-	-	-	57	-	-
1971-W333	2441014.42	1971 Mar 3 2158	Arcas	-	NASA 15.85GM	Nimbus cal	-	-	-	KAU	-	-	-	59	-	-
1971-W346	2441016.42	1971 Mar 5 2207	Arcas	-	NASA 15.86GM	Nimbus cal	-	-	-	KAU	-	-	-	58	-	-
1971-W367	2441022.60	1971 Mar 12 0230:00	Arcas	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1971-W396	2441030.74	1971 Mar 20 0543:00	Arcas	?	[= Nike?]	-	-	-	-	FC	-	-	-	60?	-	-
1971-W397	2441030.74	1971 Mar 20 0546:00	Arcas	?	[= Nike?]	-	-	-	-	FC	-	-	-	60?	-	-
1971-S195	2441033.19	1971 Mar 22 1640	Super Arcas	-	PCA imped probe	AFCRL Arcas 70-1E	-	-	-	THU	-	-	-	112	-	-
1971-W418	2441036.30	1971 Mar 25 1915:00	Arcas	-	-	-	-	-	-	WS	-	-	-	68	-	-
1971-S627	2441047.69	1971 Apr 6 0430?	Super Arcas	-	PCA?	AFCRL Arcas 70-3	-	-	-	THU	-	-	-	100?	-	-
1971-S26	2441048.22	1971 Apr 6 1719	Super Arcas	-	PCA scintillator	AFCRL Arcas 70-4P	-	-	-	THU	-	-	-	89	-	-
1971-S229	2441048.25	1971 Apr 6 1800	Super Arcas	-	PCA imped. probe	AFCRL Arcas 70-2E	-	-	-	THU	-	-	-	111	-	-
1971-S628	2441112.00	1971 Jun 9 1205:00	Super Arcas	-	Mesospheric probe	AFCRL Arcas 71-2	-	-	-	WS	-	-	-	106	-	-
1971-W802	2441112.13	1971 Jun 09 1509:00	Arcas	?	WSMR/PSU	Conductivity	-	-	-	WS	-	-	-	60?	-	-
1971-W842	2441123.14	1971 Jun 20 1527:00	Arcas	-	-	PAET Arcasonde	-	-	-	BERM	-	-	-	55	-	-
1971-W844	2441123.46	1971 Jun 20 2259:00	Arcas	-	-	PAET Arcasonde	-	-	-	BERM	-	-	-	55	-	-
1971-W1005	2441161.09	1971 Jul 28 1405:00	Arcas	?	WSMR/PSU	Conductivity	-	-	-	WS	-	-	-	76	-	-
1971-W1043	2441167.30	1971 Aug 3 1916	Arcas	-	NASA 15.46UI	-	-	-	-	WI	-	-	-	60?	-	-
1971-W1071	2441171.33	1971 Aug 7 1949	Arcas	-	NASA 15.87GM	-	-	-	-	GRLY	-	-	-	60?	-	-
1971-S230	2441048.69	1971 Apr 7 0430	Super Arcas	-	PCA imped. probe	AFCRL Arcas 70-3E	-	-	-	THU	-	-	-	122	-	-
1971-W1077	2441173.34	1971 Aug 9 2012	Arcas	-	NASA 15.88GM	-	-	-	-	GRLY	-	-	-	60?	-	-
1971-W1107	2441178.33	1971 Aug 14 1954	Arcas	-	NASA 15.90GM	-	-	-	-	GRLY	-	-	-	60?	-	-
1971-W1271	2441212.27	1971 Sep 17 1830:00	Arcas	-	-	Arcas Starute 1/STS	-	-	-	WS	-	-	-	51	-	-
1971-S24	2441220.08	1971 Sep 25 1400?	Super Arcas	-	PCA	AFCRL Arcas 71-1	-	-	-	THU	-	-	-	100?	-	-
1971-S25	2441249.10	1971 Oct 24 1430?	Super Arcas	-	PCA	AFCRL Arcas 71-5	-	-	-	THU	-	-	-	100?	-	-
1971-W1451	2441258.38	1971 Nov 2 2100:00	Arcas	-	-	Arcas Starute 2/STS	-	-	-	WS	-	-	-	66	-	-
1971-S631	2441259.71	1971 Nov 4 0502?	Arcas	-	SID	AFCRL Arcas 71-6	-	-	-	WI	-	-	-	100?	-	-
1972-W25	2441323.28	1972 Jan 6 1837	Super Arcas	-	NASA 15.92UI	-	-	-	-	WI	-	-	-	67	-	-
1972-W95	2441336.25	1972 Jan 19 1800:00	Arcas	-	-	Ozone	-	-	-	WS	-	-	-	58	-	-
1972-W97	2441336.31	1972 Jan 19 1930:00	Arcas	?	-	-	-	-	-	WS	-	-	-	69	-	-
1972-Y44	2441348.25	1972 Jan 31 1807	Super Arcas	-	NASA 15.93UI	-	-	-	-	WI	-	-	-	82	-	-
1972-W165	2441349.25	1972 Feb 01 1800:00	Arcas	-	-	Ozone	-	-	-	WS	-	-	-	54	-	-
1972-W168	2441349.29	1972 Feb 1 1900	Arcas	?	-	-	-	-	-	WS	-	-	-	65	-	-
1972-W229	2441359.25	1972 Feb 11 1800:00	Arcas	-	-	Ozone	-	-	-	WS	-	-	-	56	-	-
1972-W327	2441383.25	1972 Mar 6 1800:00	Arcas	-	-	Arcas Starute 3/STS	-	-	-	WS	-	-	-	74	-	-
1972-W366	2441392.26	1972 Mar 15 1808	Super Arcas	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-S475	2441392.31	1972 Mar 15 1926	Super Arcas	-	WMO	-	-	-	-	WI	-	-	-	80?	-	-
1972-S476	2441392.53	1972 Mar 16 0039	Super Arcas	-	WMO	-	-	-	-	WI	-	-	-	80?	-	-
1972-S477	2441397.27	1972 Mar 20 1827	Super Arcas	-	WMO	-	-	-	-	WI	-	-	-	80?	-	-
1972-S478	2441397.36	1972 Mar 20 2045	Super Arcas	-	WMO	-	-	-	-	WI	-	-	-	80?	-	-
1972-S479	2441397.57	1972 Mar 21 0146	Super Arcas	-	WMO	-	-	-	-	WI	-	-	-	80?	-	-
1972-S14	2441421.60	1972 Apr 14 0230?	Super Arcas	-	PCA	AFCRL Arcas 71-A2	-	-	-	THU	-	-	-	100?	-	-
1972-S15	2441422.72	1972 Apr 15 0516?	Arcas	-	PCA	AFCRL Arcas 70-6	-	-	-	THU	-	-	-	100?	-	-
1972-W595	2441442.21	1972 May 4 1700	Arcas	-	NASA 15.91GM	-	-	-	-	WI	-	-	-	60	-	-
1972-W653	2441454.13	1972 May 16 1511	Arcas	-	NASA 15.99GM	-	-	-	-	ANT	-	-	-	52	-	-
1972-W685	2441461.13	1972 May 23 1502	Arcas	-	NASA 15.100GM	-	-	-	-	ANT	-	-	-	56	-	-
1972-W842	2441497.27	1972 Jun 28 1825	Arcas	-	L1-5480	Stokes Flow Para	-	-	-	WI	-	-	-	63	-	-
1972-W847	2441498.21	1972 Jun 29 1708	Arcas	-	L1-5481	Stokes Flow Para	-	-	-	WI	-	-	-	69	-	-
1972-W848	2441498.28	1972 Jun 29 1841	Arcas	-	L1-5482	Stokes Flow Para	-	-	-	WI	-	-	-	74	-	-
1972-W851	2441499.13	1972 Jun 30 1508	Arcas	-	L1-5483	Stokes Flow Para	-	-	-	WI	-	-	-	70	-	-
1972-M24	2441510.14	1972 Jul 11 1523	Arcas	-	T1-5999	-	-	-	-	WI	-	-	-	60?	-	-
1972-W01	2441534.21	1972 Aug 4 1700?	Super Arcas	-	PCA	AFCRL Arcas 71-5P	-	-	-	THU	-	-	-	60?	-	-
1972-W02	2441535.38	1972 Aug 5 2102?	Arcas	-	PCA	AFCRL Arcas 71-A3	-	-	-	THU	-	-	-	60?	-	-
1972-W03	2441535.43	1972 Aug 5 2224?	Arcas	-	PCA	AFCRL Arcas 71-6P	-	-	-	THU	-	-	-	60?	-	-
1972-W04	2441538.42	1972 Aug 8 2200?	Arcas	-	PCA	AFCRL Arcas 71-A1	-	-	-	THU	-	-	-	60?	-	-
1972-M16	2441593.50	1972 Oct 3	Super Arcas	-	-	EXAMETNET 35-13	-	-	-	CSG	-	-	-	75?	-	-
1972-W1255	2441602.17	1972 Oct 11 1559:59	Arcas	-	-	Arcas Starute 4/STS	-	-	-	WS	-	-	-	76	-	-
1972-W1335	2441622.79	1972 Nov 1 0657	Super Arcas	-	NASA 15.94UI	-	-	-	-	WI	-	-	-	79	-	-
1972-W1371	2441630.18	1972 Nov 8 1614:59	Arcas	-	-	Arcas Starute 5/STS	-	-	-	WS	-	-	-	76	-	-
1972-W1391	2441632.25	1972 Nov 10 1800:00	Arcas	-	-	Arcas Starute 6/STS	-	-	-	WS	-	-	-	78	-	-
1972-M14	2441638.50	1972 Nov 17	Super Arcas	-	-	EXAMETNET 35-15	-	-	-	CSG	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y283	2441657.26	1972 Dec 5 1814	Super Arcas	-	NASA 15.95UI	-	-	-	-	WI	-	-	-	84	-	-
1973-Y31	2441699.25	1973 Jan 16 1804	Super Arcas	-	NASA 15.103UI	-	-	-	-	WI	-	-	-	95	-	-
1973-W111	2441702.21	1973 Jan 19 1658:00	Arcas	-	-	-	-	-	-	WS	-	-	-	64	-	-
1973-W1653	2441715.50	1973 Feb 2	Arcas	-	USA Ozone	Arcas Starute 7/Ozo	-	-	-	WS	-	-	-	64?	-	-
1973-W172	2441715.76	1973 Feb 2 0615	Super Arcas	-	NASA 15.101UI	-	-	-	-	FC	-	-	-	64	-	-
1973-Y60	2441715.77	1973 Feb 2 0623	Super Arcas	-	NASA 15.102UI	-	-	-	-	FC	-	-	-	81	-	-
1973-W229	2441727.15	1973 Feb 13 1530	Arcas	-	NASA 15.107GM	-	-	-	-	ANT	-	-	-	58	-	-
1973-W260	2441734.14	1973 Feb 20 1525	Arcas	-	NASA 15.108GM	-	-	-	-	ANT	-	-	-	53	-	-
1973-M37	2441762.50	1973 Mar 21	Super Arcas	-	-	EXAMETNET 35-16	-	-	-	CSG	-	-	-	75?	-	-
1973-M35	2441769.50	1973 Mar 28	Super Arcas	-	-	EXAMETNET 35-17	-	-	-	CSG	-	-	-	75?	-	-
1973-M43	2441772.28	1973 Mar 30 1845	Arcas	-	T1-6446	-	-	-	-	WI	-	-	-	60?	-	-
1973-M36	2441776.50	1973 Apr 4	Super Arcas	-	-	EXAMETNET 35-18	-	-	-	CSG	-	-	-	75?	-	-
1973-M44	2441782.59	1973 Apr 10 0215	Arcas	-	T1-6428	-	-	-	-	WI	-	-	-	60?	-	-
1973-M25	2441790.50	1973 Apr 18	Super Arcas	-	-	EXAMETNET 35-19	-	-	-	CSG	-	-	-	75?	-	-
1973-M26	2441811.50	1973 May 9	Super Arcas	-	-	EXAMETNET 35-20	-	-	-	CSG	-	-	-	75?	-	-
1973-M15	2441832.50	1973 May 30	Super Arcas	-	-	EXAMETNET 35-21	-	-	-	CSG	-	-	-	75?	-	-
1973-W736	2441839.13	1973 Jun 5 1501	Arcas	-	NASA 15.109GM	-	-	-	-	ANT	-	-	-	56	-	-
1973-M27	2441840.50	1973 Jun 7	Super Arcas	-	-	EXAMETNET 35-22	-	-	-	CSG	-	-	-	75?	-	-
1973-W879	2441875.50	1973 Jul 12	Arcas	-	-	Arcas Starute 8/STS	-	-	-	WS	-	-	-	68	-	-
1973-W895	2441880.50	1973 Jul 17	Arcas	-	-	Arcas Starute 9/STS	-	-	-	WS	-	-	-	57	-	-
1973-M46	2441883.26	1973 Jul 19 1819	Super Arcas	-	L1-6574	-	-	-	-	WI	-	-	-	60?	-	-
1973-W1036	2441911.20	1973 Aug 16 1650	Arcas	-	NASA 15.111GM	-	-	-	-	ANT	-	-	-	53	-	-
1973-W1039	2441911.26	1973 Aug 16 1810	Arcas	-	NASA 15.112GM	-	-	-	-	ANT	-	-	-	51	-	-
1973-W1073	2441919.12	1973 Aug 24 1452	Arcas	-	T1-6723	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1973-M49	2441919.16	1973 Aug 24 1555	Super Arcas	-	T1-6777	-	-	-	-	WI	-	-	-	60?	-	-
1973-M47	2441926.21	1973 Aug 31 1707	Arcas	-	T1-6731	-	-	-	-	WI	-	-	-	60?	-	-
1973-W1120	2441930.26	1973 Sep 4 1809:00	Arcas	-	T1-6720	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1973-M28	2441935.50	1973 Sep 10	Super Arcas	-	-	EXAMETNET 35-23	-	-	-	CSG	-	-	-	75?	-	-
1973-M29	2441937.50	1973 Sep 12	Super Arcas	-	-	EXAMETNET 35-24	-	-	-	CSG	-	-	-	75?	-	-
1973-A54	2441945.14	1973 Sep 19 1519	Arcas	-	NASA 15.113GM	-	-	-	-	ANT	-	-	-	49	-	-
1973-M50	2441945.28	1973 Sep 19 1839	Super Arcas	-	T1-6776	-	-	-	-	WI	-	-	-	60?	-	-
1973-W1601	2441946.08	1973 Sep 20 1354	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1602	2441946.65	1973 Sep 21 0332	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	74	-	-
1973-W1603	2441947.69	1973 Sep 22 0437	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	74	-	-
1973-W1604	2441950.22	1973 Sep 24 1715	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1605	2441950.54	1973 Sep 25 0056	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	77	-	-
1973-W1606	2441951.28	1973 Sep 25 1840	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1607	2441951.55	1973 Sep 26 0106	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1608	2441952.11	1973 Sep 26 1442	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	72	-	-
1973-W1609	2441953.10	1973 Sep 27 1426	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1610	2441953.63	1973 Sep 28 0311	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	72	-	-
1973-W1611	2441954.65	1973 Sep 29 0329	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1612	2441956.67	1973 Oct 1 0408	Super Arcas	-	CIMO	DMN Sonde	-	-	-	CSG	-	-	-	73	-	-
1973-A80	2441959.56	1973 Oct 4 0120	Super Arcas	-	AFCRL Arcas 72-2	ML-TwD	-	-	-	WS	-	-	-	10?	-	-
1973-S453	2441959.76	1973 Oct 4 0610	Super Arcas	-	AFCRL Arcas 72-1	ML-TwD	-	-	-	WS	-	-	-	90?	-	-
1973-M31	2441965.50	1973 Oct 10	Super Arcas	-	-	EXAMETNET 35-25	-	-	-	CSG	-	-	-	75?	-	-
1973-M30	2441966.14	1973 Oct 10 1515	Arcas	-	L1-6576	-	-	-	-	WI	-	-	-	70?	-	-
1973-M51	2441966.25	1973 Oct 10 1804	Arcas	-	L1-6577	-	-	-	-	WI	-	-	-	70?	-	-
1973-A62	2441975.22	1973 Oct 19 1715	Arcas	-	NASA 15.114GM	-	-	-	-	ANT	-	-	-	43	-	-
1973-M32	2441986.50	1973 Oct 31	Super Arcas	-	-	EXAMETNET 35-40	-	-	-	CSG	-	-	-	75?	-	-
1973-S09	2442009.50	1973 Nov 23	Super Arcas	-	Polar Airglow	AFCRL Arcas 73-1	-	-	-	THU	-	-	-	100?	-	-
1973-W1460	2442010.14	1973 Nov 23 1520	Arcas	-	NASA 15.115GM	-	-	-	-	ANT	-	-	-	60?	-	-
1973-M33	2442015.50	1973 Nov 29	Super Arcas	-	-	EXAMETNET 35-41	-	-	-	CSG	-	-	-	75?	-	-
1973-W1500	2442021.15	1973 Dec 4 1533:00	Arcas	-	NASA L1-6963	Chaff	-	-	-	WI	-	-	-	67	-	-
1973-M48	2442021.27	1973 Dec 4 1835	Arcas	-	NASA L1-6964	-	-	-	-	WI	-	-	-	60?	-	-
1973-M34	2442028.50	1973 Dec 12	Super Arcas	-	-	EXAMETNET 35-42	-	-	-	CSG	-	-	-	75?	-	-
1974-S30	2442047.50	1974	Super Arcas	?	PCA	-	-	-	-	THU	-	-	-	100?	-	-
1974-M07	2442056.50	1974 Jan 9	Super Arcas	-	-	EXAMETNET 35-45	-	-	-	CSG	-	-	-	75?	-	-
1974-W44	2442058.50	1974 Jan 11	Arcas	-	PSU Gerdien	Arcas Starute 10	-	-	-	WS	-	-	-	70	-	-
1974-Y20	2442064.26	1974 Jan 16 1813	Super Arcas	-	NASA 15.105UI	-	-	-	-	WI	-	-	-	103	-	-
1974-W149	2442079.12	1974 Jan 31 1500	Arcas	-	NASA 15.51UE	-	-	-	-	ANT	-	-	-	60?	-	-
1974-M08	2442082.50	1974 Feb 4	Super Arcas	-	-	EXAMETNET 35-46	-	-	-	CSG	-	-	-	75?	-	-
1974-M09	2442092.50	1974 Feb 14	Super Arcas	-	-	EXAMETNET 35-47	-	-	-	CSG	-	-	-	75?	-	-
1974-M10	2442100.50	1974 Feb 22	Super Arcas	-	-	EXAMETNET 35-43B	EOLE-ISENTROPE No. 2	-	-	CSG	-	-	-	75?	-	-
1974-M11	2442103.50	1974 Feb 25	Super Arcas	-	-	EXAMETNET 35-44B	-	-	-	CSG	-	-	-	75?	-	-
1974-M12	2442105.50	1974 Feb 27	Super Arcas	-	-	EXAMETNET 35-48	EOLE-ISENTROPE No. 3	-	-	CSG	-	-	-	75?	-	-
1974-M13	2442119.50	1974 Mar 13	Super Arcas	-	-	EXAMETNET 35-49	-	-	-	CSG	-	-	-	76	-	-
1974-M40	2442122.30	1974 Mar 15 1917	Super Arcas	-	NASA G1-7207	-	-	-	-	WI	-	-	-	60?	-	-
1974-A14	2442128.00	1974 Mar 21 1200	Super Arcas	-	NASA 15.123GM	-	Ozone	-	-	CSG	ALFS	-	-	1	-	-
1974-Y121	2442129.11	1974 Mar 22 1445	Super Arcas	-	NASA 15.124GM	-	Ozone	-	-	CSG	ALFS	-	-	89	-	-
1974-M14	2442133.50	1974 Mar 27	Super Arcas	-	-	EXAMETNET 35-50	-	-	-	CSG	-	-	-	75?	-	-
1974-M20	2442154.50	1974 Apr 17	Super Arcas	-	-	EXAMETNET 35-51	-	-	-	CSG	-	-	-	75?	-	-
1974-M21	2442169.50	1974 May 2	Super Arcas	-	-	EXAMETNET 35-52	-	-	-	CSG	-	-	-	75?	-	-
1974-M22	2442182.50	1974 May 15	Super Arcas	-	-	EXAMETNET 35-53	-	-	-	CSG	-	-	-	75?	-	-
1974-M23	2442196.50	1974 May 29	Super Arcas	-	-	EXAMETNET 35-54	-	-	-	CSG	-	-	-	75?	-	-
1974-W846	2442228.35	1974 Jun 29 2025:00	Super Arcas	-	E 1-7323	ALADDIN 74	-	-	-	WI	-	-	-	60?	-	-
1974-Y226	2442228.38	1974 Jun 29 2110	Super Arcas	-	NASA 15.104UI	ALADDIN 74	-	-	-	WI	-	-	-	89	-	-
1974-W862	2442228.64	1974 Jun 30 0315	Super Arcas	-	NASA 15.126UE	ALADDIN 74	-	-	-	WI	-	-	-	72	-	-
1974-Y228	2442228.94	1974 Jun 30 1035:00	Super Arcas	-	E 1-7324	ALADDIN 74	-	-	-	WI	-	-	-	90?	-	-
1974-Y227	2442229.50	1974 Jul 1 0005	Super Arcas	-	NASA 15.125UI	ALADDIN 74	-	-	-	WI	-	-	-	83	-	-
1974-W961	2442254.25	1974 Jul 25 1800	Super Arcas	-	NASA 15.106UI	-	-	-	-	WS	-	-	-	74	-	-
1974-M15	2442294.50	1974 Sep 4	Super Arcas	-	-	EXAMETNET 35-55	EOLE-ISENTROPE No. 4	-	-	CSG	-	-	-	75?	-	-
1974-M24	2442301.50	1974 Sep 11	Super Arcas	-	-	EXAMETNET 35-56	-	-	-	CSG	-	-	-	75?	-	-
1974-M25	2442308.50	1974 Sep 18	Super Arcas	-	-	EXAMETNET 35-57	-	-	-	CSG	-	-	-	75?	-	-
1974-M16	2442322.50	1974 Oct 2	Super Arcas	-	-	EXAMETNET 35-58	-	-	-	CSG	-	-	-	75?	-	-
1974-M17	2442336.50	1974 Oct 16	Super Arcas	-	-	EXAMETNET 35-59	-	-	-	CSG	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-M18	2442350.50	1974 Oct 30	Super Arcas	-	-	EXAMETNET 35-60	-	-	-	CSG	-	-	-	75?	-	-
1974-M19	2442364.50	1974 Nov 13	Super Arcas	-	-	EXAMETNET 35-61	-	-	-	CSG	-	-	-	75?	-	-
1974-M26	2442378.50	1974 Nov 27	Super Arcas	-	-	EXAMETNET 35-62	-	-	-	CSG	-	-	-	75?	-	-
1974-M27	2442380.50	1974 Nov 29	Super Arcas	-	-	EXAMETNET 35-63	-	-	-	CSG	-	-	-	75?	-	-
1974-M28	2442385.50	1974 Dec 4	Super Arcas	-	-	EXAMETNET 35-64	-	-	-	CSG	-	-	-	75?	-	-
1974-S441	2442396.67	1974 Dec 15 0402	Super Arcas	-	-	AFCRL Arcas 73A-1	-	-	-	THU	-	-	-	100?	-	-
1974-M29	2442399.50	1974 Dec 18	Super Arcas	-	-	EXAMETNET 35-65	-	-	-	CSG	-	-	-	75?	-	-
1975-M03	2442421.50	1975 Jan 9	Super Arcas	-	-	EXAMETNET 35-66	-	-	-	CSG	-	-	-	75?	-	-
1975-Y29	2442438.60	1975 Jan 26 0226	Super Arcas	-	NASA 15.129UE	ARAKS	-	-	-	KER	-	-	-	80?	-	-
1975-Y30	2442438.61	1975 Jan 26 0236	Super Arcas	-	NASA 15.130UE	ARAKS	-	-	-	KER	-	-	-	80?	-	-
1975-M08	2442442.50	1975 Jan 30	Super Arcas	-	-	EXAMETNET 35-67	-	-	-	CSG	-	-	-	75?	-	-
1975-Y40	2442446.68	1975 Feb 3 0415	Super Arcas	-	NASA 15.138UE	ARAKS	-	-	-	KER	-	-	-	80?	-	-
1975-M09	2442456.50	1975 Feb 13	Super Arcas	-	-	EXAMETNET 35-69	-	-	-	CSG	-	-	-	75?	-	-
1975-Y48	2442458.56	1975 Feb 15 0125	Super Arcas	-	NASA 15.131UE	ARAKS	-	-	-	KER	-	-	-	80?	-	-
1975-Y49	2442458.57	1975 Feb 15 0136	Super Arcas	-	NASA 15.132UE	ARAKS	-	-	-	KER	-	-	-	80?	-	-
1975-M04	2442469.50	1975 Feb 26	Super Arcas	-	-	EXAMETNET 35-70	-	-	-	CSG	-	-	-	75?	-	-
1975-M10	2442483.50	1975 Mar 12	Super Arcas	-	-	EXAMETNET 35-71	-	-	-	CSG	-	-	-	75?	-	-
1975-W310	2442485.18	1975 Mar 13 1615	Super Arcas	-	NASA 15.137GM	-	-	-	-	WS	-	-	-	78	-	-
1975-M11	2442497.50	1975 Mar 26	Super Arcas	-	-	EXAMETNET 35-72	-	-	-	CSG	-	-	-	75?	-	-
1975-M12	2442518.50	1975 Apr 16	Super Arcas	-	-	EXAMETNET 35-73	-	-	-	CSG	-	-	-	75?	-	-
1975-M13	2442531.50	1975 Apr 29	Super Arcas	-	-	EXAMETNET 35-74	-	-	-	CSG	-	-	-	75?	-	-
1975-M14	2442546.50	1975 May 14	Super Arcas	-	-	EXAMETNET 35-75	-	-	-	CSG	-	-	-	75?	-	-
1975-Y160	2442556.55	1975 May 24 0105	Super Arcas	-	NASA 15.139UE	Antarqui PSU	-	-	-	CHI	-	-	-	93	-	-
1975-W606	2442556.58	1975 May 24 0152	Super Arcas	-	NASA 15.133GM	Antarqui Ozone	-	-	-	CHI	-	-	-	71	-	-
1975-Y161	2442556.80	1975 May 24 0705	Super Arcas	-	NASA 15.140UE	Antarqui PSU	-	-	-	CHI	-	-	-	91	-	-
1975-Y162	2442556.82	1975 May 24 0744	Super Arcas	-	NASA 15.134GM	Antarqui Ozone	-	-	-	CHI	-	-	-	88	-	-
1975-W607	2442556.86	1975 May 24 0842	Super Arcas	-	NASA 15.135GM	Antarqui Ozone	-	-	-	CHI	-	-	-	67	-	-
1975-M15	2442560.50	1975 May 28	Super Arcas	-	-	EXAMETNET 35-77	-	-	-	CSG	-	-	-	75?	-	-
1975-Y171	2442561.31	1975 May 28 1930	Super Arcas	-	NASA 15.142UE	Antarqui PSU	-	-	-	CHI	-	-	-	86	-	-
1975-Y172	2442561.39	1975 May 28 2116	Super Arcas	-	NASA 15.141UE	Antarqui PSU	-	-	-	CHI	-	-	-	82	-	-
1975-M05	2442574.50	1975 Jun 11	Super Arcas	-	-	EXAMETNET 35-78	-	-	-	CSG	-	-	-	75?	-	-
1975-M16	2442581.50	1975 Jun 18	Super Arcas	-	-	EXAMETNET 35-79	-	-	-	CSG	-	-	-	75?	-	-
1975-Y224	2442609.05	1975 Jul 15 1318	Arcas	-	NASA 15.48WT	-	-	-	-	WS	-	-	-	90?	-	-
1975-Y233	2442617.74	1975 Jul 24 0547	Super Arcas	-	NASA 15.143GM	Sphere (Intercomp)	-	-	-	WI	-	-	-	85	-	-
1975-Y234	2442623.19	1975 Jul 29 1634	Super Arcas	-	NASA 15.144GM	-	-	-	-	WI	-	-	-	81	-	-
1975-W848	2442623.31	1975 Jul 29 1920	Super Arcas	-	NASA 15.136GM	Antarqui Ozone	-	-	-	WI	-	-	-	73	-	-
1975-M19	2442664.50	1975 Sep 9	Super Arcas	-	-	EXAMETNET 35-80	-	-	-	CSG	-	-	-	75?	-	-
1975-M17	2442672.50	1975 Sep 17	Super Arcas	-	-	EXAMETNET 35-81	-	-	-	CSG	-	-	-	75?	-	-
1975-W1078	2442682.04	1975 Sep 26 1259:59	Arcas	?	Gerdien	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1975-M06	2442684.50	1975 Sep 29	Super Arcas	-	-	EXAMETNET 35-82	-	-	-	CSG	-	-	-	75?	-	-
1975-M18	2442714.50	1975 Oct 29	Super Arcas	-	-	EXAMETNET 35-83	-	-	-	CSG	-	-	-	75?	-	-
1975-W1389	2442762.68	1975 Dec 16 0419	Super Arcas	-	NASA 15.110GM	-	-	-	-	THU	-	-	-	77	-	-
1975-Y372	2442764.59	1975 Dec 18 0210	Super Arcas	-	NASA 15.145GM	-	-	-	-	THU	-	-	-	81	-	-
1975-M07	2442764.50	1975 Dec 18	Super Arcas	-	-	EXAMETNET 35-84	-	-	-	CSG	-	-	-	75?	-	-
1975-W1414	2442768.59	1975 Dec 22 0213	Super Arcas	-	NASA 15.146GM	-	-	-	-	THU	-	-	-	78	-	-
1976-M14	2442798.50	1976 Jan 21	Super Arcas	-	-	EXAMETNET 35-85	-	-	-	CSG	-	-	-	75?	-	-
1976-M15	2442805.50	1976 Jan 28	Super Arcas	-	-	EXAMETNET 35-86	-	-	-	CSG	-	-	-	75?	-	-
1976-Y39	2442808.14	1976 Jan 30 1525	Super Arcas	-	NASA 15.49UE	-	-	-	-	WI	-	-	-	85	-	-
1976-M10	2442826.50	1976 Feb 18	Super Arcas	-	-	EXAMETNET 35-87	-	-	-	CSG	-	-	-	75?	-	-
1976-Y100	2442835.67	1976 Feb 27 0405	Super Arcas	-	NASA 15.147GM	COPNE (Polar ozone)	-	-	-	THU	-	-	-	84	-	-
1976-Y108	2442841.72	1976 Mar 4 0522	Super Arcas	-	NASA 15.148GM	COPNE	-	-	-	THU	-	-	-	84	-	-
1976-M16	2442854.50	1976 Mar 17	Super Arcas	-	-	EXAMETNET 35-88	-	-	-	CSG	-	-	-	75?	-	-
1976-W493	2442868.78	1976 Mar 31 0638	Super Arcas	-	NASA 15.128UE	-	-	-	-	FC	-	-	-	61	-	-
1976-M17	2442869.50	1976 Apr 1	Super Arcas	-	-	EXAMETNET 35-89	-	-	-	CSG	-	-	-	75?	-	-
1976-M11	2442882.50	1976 Apr 14	Super Arcas	-	-	EXAMETNET 35-90	-	-	-	CSG	-	-	-	75?	-	-
1976-M18	2442897.50	1976 Apr 29	Super Arcas	-	-	EXAMETNET 35-91	-	-	-	CSG	-	-	-	75?	-	-
1976-M19	2442910.50	1976 May 12	Super Arcas	-	-	EXAMETNET 35-92	-	-	-	CSG	-	-	-	75?	-	-
1976-M25	2442931.50	1976 Jun 2	Super Arcas	-	-	EXAMETNET 35-93	-	-	-	CSG	-	-	-	75?	-	-
1976-M13	2442938.50	1976 Jun 9	Super Arcas	-	-	EXAMETNET 35-94	-	-	-	CSG	-	-	-	75?	-	-
1976-M20	2443036.50	1976 Sep 15	Super Arcas	-	-	EXAMETNET 35-95	-	-	-	CSG	-	-	-	75?	-	-
1976-W1332	2443043.09	1976 Sep 21 1403:00	Super Arcas	-	TM1-8169	-	-	-	-	PF	-	-	-	70	-	-
1976-Y432	2443045.04	1976 Sep 23 1255:00	Super Arcas	-	TM1-8170	-	-	-	-	PF	-	-	-	86	-	-
1976-Y439	2443046.83	1976 Sep 25 0756:00	Super Arcas	-	TM1-8171	-	-	-	-	PF	-	-	-	82	-	-
1976-M21	2443050.50	1976 Sep 29	Super Arcas	-	-	EXAMETNET 35-96	-	-	-	CSG	-	-	-	75?	-	-
1976-M22	2443064.50	1976 Oct 13	Super Arcas	-	-	EXAMETNET 35-97	-	-	-	CSG	-	-	-	75?	-	-
1976-M23	2443113.50	1976 Dec 1	Super Arcas	-	-	EXAMETNET 35-100	-	-	-	CSG	-	-	-	75?	-	-
1977-Y12	2443152.35	1977 Jan 8 2021	Super Arcas	-	NASA 15.152UE	-	-	-	-	WI	-	-	-	86	-	-
1977-Y61	2443186.37	1977 Feb 11 2050:45	Super Arcas	-	NASA 15.154UE	TRIGGER AR-1	-	-	-	ESR	-	-	-	80	-	-
1977-Y63	2443190.28	1977 Feb 15 1848:20	Super Arcas	-	NASA 15.155UE	TRIGGER AR-2	-	-	-	ESR	-	-	-	85	-	-
1977-Y271	2443347.11	1977 Jul 22 1442:00	Super Arcas	-	T 1-9105	-	-	-	-	WI	-	-	-	85	-	-
1977-W1231	2443348.67	1977 Jul 24 0402:00	Super Arcas	-	T 1-9103	Ozone Flight 31	-	-	-	WI	-	-	-	72	-	-
1977-W1232	2443348.68	1977 Jul 24 0415:00	Super Arcas	-	T 1-9104	Ozone Flight 32	-	-	-	WI	-	-	-	71	-	-
1978-Y01	2443512.99	1978 Jan 4 1140	Super Arcas	-	NASA 15.162UE	-	-	-	-	SIP	-	-	-	80?	-	-
1978-Y02	2443512.50	1978 Jan 4	Super Arcas	-	NASA 15.161UE	-	-	-	-	SIP	-	-	-	80?	-	-
1978-A01	2443512.50	1978 Jan 4	Super Arcas	-	NASA 15.160UE	-	-	-	-	SIP	-	-	-	1?	-	-
1978-Y18	2443520.91	1978 Jan 12 0957:30	Super Arcas	-	NASA 15.163UE	-	-	-	-	SIP	-	-	-	80?	-	-
1978-W335	2443588.50	1978 Mar 21	Super Arcas	-	NASA 15.165GA	-	-	-	-	PF	-	-	-	62	-	-
1978-W360	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.167GA	-	-	-	-	PF	-	-	-	67	-	-
1978-W361	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.169GA	-	-	-	-	PF	-	-	-	67	-	-
1978-W362	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.170UE	-	-	-	-	PF	-	-	-	75	-	-
1978-W366	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.164GA	-	-	-	-	PF	-	-	-	63	-	-
1978-W367	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.166GA	-	-	-	-	PF	-	-	-	62	-	-
1978-W368	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.168GA	-	-	-	-	PF	-	-	-	60	-	-
1978-W376	2443597.50	1978 Mar 30	Super Arcas	-	NASA 15.171UE	-	-	-	-	PF	-	-	-	58	-	-
1978-W841	2443735.50	1978 Aug 15	Super Arcas	-	NASA 15.158UU	-	-	-	-	WI	-	-	-	61	-	-
1978-W890	2443748.50	1978 Aug 28	Super Arcas	-	NASA 15.157UU	-	-	-	-	WI	-	-	-	63	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W897	2443750.32	1978 Aug 29 1937:59	Super Arcas	-	-	MidAir Recovery Test	-	-	-	WI	-	-	-	66	-	-
1978-Y443	2443857.50	1978 Dec 15	Super Arcas	-	NASA 15.197GM	-	-	-	-	WI	-	-	-	80?	-	-
1978-W1272	2443857.74	1978 Dec 15 0541	Super Arcas	-	NASA 15.149GM	-	-	-	-	WS	-	-	-	70	-	-
1979-Y52	2443900.50	1979 Jan 27	Super Arcas	-	NASA 15.198GM	-	-	-	-	WI	-	-	-	80?	-	-
1979-W153	2443901.34	1979 Jan 27 2005	Super Arcas	-	NASA 15.150GM	-	-	-	-	PF	-	-	-	60	-	-
1979-Y57	2443901.50	1979 Jan 28	Super Arcas	-	NASA 15.199GM	-	-	-	-	WI	-	-	-	80?	-	-
1979-W154	2443901.86	1979 Jan 28 0833	Super Arcas	-	NASA 15.151GM	-	-	-	-	PF	-	-	-	69	-	-
1979-Y606	2443929.20	1979 Feb 24 1654:50	Super Arcas	-	CMSA-1	Eclipse Ne	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y122	2443929.22	1979 Feb 24 1722	Super Arcas	-	CMSA-10	Eclipse Prep	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y610	2443930.21	1979 Feb 25 1700	Super Arcas	-	-	Eclipse Ne	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y123	2443930.23	1979 Feb 25 1730	Super Arcas	-	CMSA-05	Eclipse Prep	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y124	2443931.20	1979 Feb 26 1653	Super Arcas	-	CMSA-06	Eclipse Gerdien	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y125	2443931.23	1979 Feb 26 1738	Super Arcas	-	CMSA-07	Eclipse Gerdien	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y612	2443931.28	1979 Feb 26 1840	Super Arcas	-	-	Eclipse Ne	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y127	2443931.65	1979 Feb 27 0330	Super Arcas	-	CMSA-08	Eclipse Gerdien	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y128	2443932.05	1979 Feb 27 1306	Super Arcas	-	CMSA-09	Eclipse Gerdien	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y616	2443932.09	1979 Feb 27 1410	Super Arcas	-	-	Eclipse Ne	-	-	-	RLAKE	COCH	-	-	80	-	-
1979-Y225	2443969.47	1979 Apr 05 2314:00	Super Arcas	-	NASA 15.176GM /T 1-	-	-	-	-	WI	-	-	-	81	-	-
1979-Y394	2444071.01	1979 Jul 16 1213	Super Arcas	-	NASA 15.194GM	-	-	-	-	PF	-	-	-	88	-	-
1979-W889	2444071.06	1979 Jul 16 1320	Super Arcas	-	NASA 15.196GM	-	-	-	-	PF	-	-	-	72	-	-
1979-Y395	2444072.02	1979 Jul 17 1223	Super Arcas	-	NASA 15.195GM	-	-	-	-	PF	-	-	-	81	-	-
1979-M164	2444079.14	1979 Jul 24 1525	Super Arcas	-	-	VLF Probe 1	-	-	-	WI	-	-	-	75?	-	-
1979-M165	2444079.16	1979 Jul 24 1555	Super Arcas	-	-	VLF Probe 2	-	-	-	WI	-	-	-	75?	-	-
1979-Y476	2444129.50	1979 Sep 13	Super Arcas	-	NASA 15.193UE	-	-	-	-	WI	-	-	-	80?	-	-
1979-Y477	2444129.50	1979 Sep 13	Super Arcas	-	NASA 15.188UE	-	-	-	-	WI	-	-	-	80?	-	-
1979-W1236	2444168.15	1979 Oct 21 1537	Super Arcas	-	NASA 15.203GM	-	-	-	-	WI	-	-	-	74	-	-
1979-Y501	2444168.19	1979 Oct 21 1630	Super Arcas	-	NASA 15.204GM	-	-	-	-	WI	-	-	-	82	-	-
1979-W1239	2444168.22	1979 Oct 21 1715	Super Arcas	-	NASA 15.205GM	-	-	-	-	WI	-	-	-	75	-	-
1979-W1300	2444181.87	1979 Nov 4 0850	Super Arcas	-	NASA 15.209GM	-	-	-	-	WI	-	-	-	78	-	-
1979-Y518	2444181.89	1979 Nov 4 0925	Super Arcas	-	NASA 15.208GM	-	-	-	-	WI	-	-	-	82	-	-
1979-Y519	2444181.92	1979 Nov 4 1000	Super Arcas	-	NASA 15.207GM	-	-	-	-	WI	-	-	-	81	-	-
1979-S767	2444231.50	1979 Dec 24	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1980-Y83	2444284.85	1980 Feb 15 0825	Super Arcas	-	NASA 15.200UE	-	-	-	-	SMLC	-	-	-	88	-	-
1980-Y86	2444285.85	1980 Feb 16 0825	Super Arcas	-	NASA 15.201UE	-	-	-	-	SMLC	-	-	-	84	-	-
1980-W157	2444285.88	1980 Feb 16 0910	Super Arcas	-	NASA 15.202UE	-	-	-	-	SMLC	-	-	-	78	-	-
1980-Y376	2444465.63	1980 Aug 14 0311	Super Arcas	-	NASA 15.210UE	-	-	-	-	WI	LA2	-	-	94	-	-
1980-Y446	2444535.36	1980 Oct 22 2043	Super Arcas	-	A14.021-1	SPE-1A	-	-	-	PF	-	-	-	90	-	-
1980-M166	2444542.13	1980 Oct 29 1510	Super Arcas	-	-	VLF Probe 3	-	-	-	WI	-	-	-	75?	-	-
1980-M167	2444542.15	1980 Oct 29 1540	Super Arcas	-	-	VLF Probe 4	-	-	-	WI	-	-	-	75?	-	-
1980-Y491	2444585.97	1980 Dec 12 1117	Super Arcas	-	NASA 15.189UE	-	-	-	-	SIP	A	-	-	80	-	-
1980-Y500	2444594.23	1980 Dec 20 1730	Super Arcas	-	NASA 15.190UE	-	-	-	-	SIP	A	-	-	80	-	-
1981-Y10	2444615.26	1981 Jan 10 1818	Super Arcas	-	NASA 15.191UE	-	-	-	-	SIP	A	-	-	80?	-	-
1981-Y11	2444615.98	1981 Jan 11 1127	Super Arcas	-	NASA 15.192UE	-	-	-	-	SIP	A	-	-	80?	-	-
1981-S282	2444774.50	1981 Jun 19	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1981-W540	2444825.59	1981 Aug 9 0206	Super Arcas	-	NASA 15.211UE	E field/conduct.	-	-	-	WI	-	-	-	75	-	-
1981-Y309	2444827.59	1981 Aug 11 0208	Super Arcas	-	NASA 15.212UE	-	-	-	-	WI	-	-	-	82	-	-
1981-S283	2444958.50	1981 Dec 20	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1982-Y21	2444989.78	1982 Jan 20 0645	Super Arcas	-	NASA 15.213UE	-	-	-	-	PF	-	-	-	80?	-	-
1982-Y25	2444994.14	1982 Jan 24 1522	Super Arcas	-	NASA 15.216UE	-	-	-	-	PF	-	-	-	80?	-	-
1982-W57	2444995.25	1982 Jan 25 1755:00	Super Arcas	-	TN1-0145	-	-	-	-	CLBI	-	-	-	69	-	-
1982-W59	2444995.30	1982 Jan 25 1913:00	Super Arcas	-	TN1-0146	-	-	-	-	CLBI	-	-	-	68	-	-
1982-W80	2445001.09	1982 Jan 31 1416:00	Super Arcas	-	TN1-0137	-	-	-	-	CLBI	-	-	-	71	-	-
1982-W81	2445001.12	1982 Jan 31 1446:00	Super Arcas	-	TN1-0138	-	-	-	-	CLBI	-	-	-	76	-	-
1982-Y83	2445044.72	1982 Mar 16 0510	Super Arcas	-	NASA 15.214UE	WATERHOLE support	-	-	-	FC	-	-	-	80?	-	-
1982-M50	2445062.15	1982 Apr 2 1532	Super Arcas	-	-	VLF Probe 5	-	-	-	WI	-	-	-	75?	-	-
1982-Y348	2445250.16	1982 Oct 7 1548	Super Arcas	-	NASA 15.217UE	-	-	-	-	WI	-	-	-	80?	-	-
1983-Y29	2445372.80	1983 Feb 7 0714:25	Super Arcas	-	NASA 15.224UE	Auroral X?	-	-	-	FC	-	-	-	71	-	-
1983-Y30	2445372.81	1983 Feb 7 0721:25	Super Arcas	-	NASA 15.225UE	Auroral X?	-	-	-	FC	-	-	-	71	-	-
1983-Y70	2445402.22	1983 Mar 8 1716	Super Arcas	-	NASA 15.218UE	CONDOR PSU E1	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y73	2445402.42	1983 Mar 8 2200	Super Arcas	-	NASA 15.223UE	CONDOR PSU E2	-	-	-	CHI	PLOB	-	-	50?	-	-
1983-Y74	2445402.48	1983 Mar 8 2327:03	Super Arcas	-	NASA 15.221UE	CONDOR PSU E3	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y75	2445402.54	1983 Mar 9 0100	Super Arcas	-	NASA 15.220UE	CONDOR PSU E4	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y84	2445402.92	1983 Mar 9 1011	Super Arcas	-	NASA 15.219UE	CONDOR PSU E5	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y85	2445403.00	1983 Mar 9 1200	Super Arcas	-	NASA 15.222UE	CONDOR PSU E6	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y191	2445500.60	1983 Jun 15 0230	Super Arcas	-	A14.311-1	STATE 1	-	-	-	PF	-	-	-	101	-	-
1983-Y195	2445501.80	1983 Jun 16 0707	Super Arcas	-	A14.311-2	STATE 2	-	-	-	PF	-	-	-	106	-	-
1983-Y198	2445503.26	1983 Jun 17 1815	Super Arcas	-	A14.311-3	STATE 3	-	-	-	PF	-	-	-	98	-	-
1984-Y77	2445754.02	1984 Feb 23 1234	Super Arcas	-	NASA 15.226UE	PSU E	-	-	-	WI	-	-	-	80?	-	-
1984-Y93	2445902.42	1984 Jul 20 2203	Super Arcas	-	NASA 15.227UE	-	-	-	-	WI	-	-	-	80?	-	-
1984-Y94	2445904.95	1984 Jul 23 1052	Super Arcas	-	NASA 15.228UE	-	-	-	-	WI	-	-	-	80?	-	-
1984-Y95	2445905.94	1984 Jul 24 1029	Super Arcas	-	NASA 15.229UE	-	-	-	-	WI	-	-	-	80?	-	-
1984-Y97	2445906.00	1984 Jul 24 1156	Super Arcas	-	NASA 15.230UE	-	-	-	-	WI	-	-	-	80?	-	-
1984-S319	2445916.50	1984 Aug 4	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1984-Y114	2445964.40	1984 Sep 20 2132	Super Arcas	-	NASA 15.231UE	-	-	-	-	WI	-	-	-	80?	-	-
1984-S320	2446014.50	1984 Nov 10	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1985-S338	2446104.50	1985 Feb 8	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1985-S339	2446104.50	1985 Feb 8	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1985-Y06	2446154.21	1985 Mar 29 1704	Super Arcas	-	NASA 15.232UE	-	-	-	-	PF	-	-	-	80?	-	-
1985-Y07	2446157.27	1985 Apr 1 1822:40	Super Arcas	-	NASA 15.233UE	-	-	-	-	PF	-	-	-	80?	-	-
1985-S340	2446193.50	1985 May 8	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1986-Y169	2446639.21	1986 Jul 27 1700	Super Arcas	-	NASA 15.239UU	-	-	-	-	PF	-	-	-	80?	-	-
1986-Y171	2446640.99	1986 Jul 29 1142	Super Arcas	-	NASA 15.241UU	-	-	-	-	PF	-	-	-	80?	-	-
1986-Y172	2446641.25	1986 Jul 29 1758	Super Arcas	-	NASA 15.242UU	-	-	-	-	PF	-	-	-	80?	-	-
1986-Y176	2446645.01	1986 Aug 2 1220	Super Arcas	-	NASA 15.243UU	-	-	-	-	PF	-	-	-	80?	-	-
1986-Y177	2446645.20	1986 Aug 2 1650	Super Arcas	-	NASA 15.240UU	-	-	-	-	PF	-	-	-	80?	-	-
1987-Y216	2446990.83	1987 Jul 14 0800	Super Arcas	-	NASA 15.244UU	MAC-SINE S-SA1/L	-	-	-	AND	-	-	-	95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-Y220	2446990.90	1987 Jul 14 0929	Super Arcas	-	NASA 15.245UU	MAC-SINE S-SA2/H	-	-	-	AND	-	-	-	96	-	-
1987-Y226	2446991.04	1987 Jul 14 1255	Super Arcas	-	NASA 15.247UU	MAC-SINE S-SA3/H	-	-	-	AND	-	-	-	93	-	-
1987-Y229	2446992.02	1987 Jul 15 1232	Super Arcas	-	NASA 15.246UU	MAC-SINE S-SA4/L	-	-	-	AND	-	-	-	98	-	-
1987-S272	2447120.50	1987 Nov 21	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1988-S203	2447327.50	1988 Jun 15	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1988-S204	2447506.50	1988 Dec 11	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1989-S156	2447826.50	1989 Oct 27	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1990-S216	2447912.50	1990 Jan 21	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1990-S217	2448215.50	1990 Nov 20	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1990-S225	2448454.50	1991 Jul 17	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1991-Y22	2448469.56	1991 Aug 1 0128:00	Super Arcas	-	NASA 15.249UU NLC-91	N-B-M02 MISTI B	-	-	-	ESR	-	-	-	89	-	-
1991-Y27	2448474.47	1991 Aug 5 2321	Super Arcas	-	NASA 15.250UE NLC-91	N-C-M09 MISTI C	-	-	-	ESR	-	-	-	88	-	-
1991-Y29	2448478.48	1991 Aug 9 2330	Super Arcas	-	NASA 15.251UE NLC-91	N-A-M15 MISTI A	-	-	-	ESR	-	-	-	80?	-	-
1992-S112	2448727.50	1992 Apr 15	Super Arcas	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A173	2436512.21	1958 Nov 4 1700	Arcas	-	1	0.000	SMSA	SS	-	SMSA/Webb	Test	Quest16,2,41	-	-
1958-A174	2436536.24	1958 Nov 28 1745	Arcas	-	2	0.000	SMSA	SS	-	SMSA/Webb	Test	Quest16,2,41	-	-
1958-A175	2436546.12	1958 Dec 8 1500	Arcas	-	3	0.000	SMSA	SS	-	SMSA/Webb	Test	Quest16,2,41	-	-
1959-W02	2436592.14	1959 Jan 23 1515	Arcas	-	4	0.000	SMSA	SS	-	SMSA/Webb	Test	Quest16,2,41	MR590511-20/Desind	-
1959-W20	2436599.20	1959 Jan 30 1655	Arcas	-	5	0.000	SMSA	SS	-	SMSA/Webb	Test	Quest16,2,41	-	-
1959-W18	2436724.50	1959 Jun 5	Arcas	-	6	0.000	SMSA	SS	-	SMSA/	Test	ArcasFinal	-	-
1959-M41	2436742.50	1959 Jun 23	Arcas	-	7	0.000	SMSA	SS	-	SMSA/	Test	ArcasFinal	-	-
1959-A121	2436780.50	1959 Jul 31	Arcas	-	-	0.000	BRL	SF	U	BRL/	Aeron	RP-1028	-	-
1959-A122	2436780.50	1959 Jul 31	Arcas	-	-	0.000	BRL	SF	U	BRL/	Aeron	RP-1028	-	-
1959-W04	2436787.50	1959 Aug 7	Arcas	-	-	0.000	BRL	SS	-	BRL/	Aeron	RP-1028	-	-
1959-W19	2436787.50	1959 Aug 7	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	Desind	-	-
1959-W01	2436568.50	1959	Arcas	-	(1 of 25)	0.000	AFMTC	SS	-	AFMTC/	Aeron	SP-219	-	-
1959-W13	2436869.50	1959 Oct 28	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1959-W14	2436876.50	1959 Nov 4	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1959-W15	2436882.50	1959 Nov 10	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1959-W16	2436888.50	1959 Nov 16	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-W69	2436951.50	1960 Jan 18	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-W67	2436955.50	1960 Jan 22	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-A316	2436965.50	1960 Feb 1	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,191	-	-
1960-W70	2436967.50	1960 Feb 3	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-W71	2436968.50	1960 Feb 4	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-A317	2436969.50	1960 Feb 5	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,191	-	-
1960-W72	2436972.50	1960 Feb 8	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-W01	2436979.50	1960 Feb 15	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	CR-1529	MoWxRev88,191	-
1960-W73	2436980.50	1960 Feb 16	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	MoWxRev88,187	-	-
1960-W02	2436981.50	1960 Feb 17	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	ISTS2	-	-
1960-W03	2436995.50	1960 Mar 2	Arcas	-	-	0.000	ONR	SS	-	ONR/	Aeron	CR-1529	-	-
1960-A321	2437044.50	1960 Apr 20	Arcas	-	253 Z2.4XZ	0.000	PMOOS/PMR	SF	U	PMR/PMOOS/	Aeron	AD-437681	-	-
1960-W04	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W05	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W06	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W07	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W08	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W09	2437115.50	1960 Jul	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-A322	2437134.50	1960 Jul 19	Arcas	-	337 A210.4GA	0.000	WI	SF	U	WI/	Aeron	AD-437681	-	-
1960-W10	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W11	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W12	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W13	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W14	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W15	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W16	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W17	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W18	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W19	2437146.50	1960 Aug	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-A323	2437156.50	1960 Aug 10	Arcas	-	359 N62.4MU	0.000	ONR	SF	U	PMR/	Aeron	AD-437681	-	-
1960-W20	2437177.50	1960 Sep	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W21	2437177.50	1960 Sep	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W22	2437177.50	1960 Sep	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W23	2437177.50	1960 Sep	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-A324	2437193.50	1960 Sep 16	Arcas	-	402 A250AA	0.000	WSMR	SF	U	WSMR/	Aeron	AD-437681	-	-
1960-M34	2437225.50	1960 Oct 18	Arcas	-	459 A275.AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1960-A325	2437226.50	1960 Oct 19	Arcas	-	460 A276.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1960-M35	2437227.50	1960 Oct 20	Arcas	-	461 A277.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1960-W29	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W30	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W31	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W32	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W33	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W34	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W35	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W36	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W37	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-W38	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1960-A254	2437238.50	1960 Nov	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1960-W74	2437238.50	1960 Nov	Arcas	-	-	0.000	HADC	SS	-	HADC/?	Aeron	Desind	-	-
1960-M36	2437241.50	1960 Nov 3	Arcas	-	-	0.000	ONR	SS	-	PMR/	Meteo	LowellSun601104	-	-
1960-M41	2437266.50	1960 Nov 28	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	Wire/Ulrich	-	-
1960-M37	2437238.50	1960 Nov	Arcas	-	-	0.000	ONR	SS	-	PMR/	Meteo	Grahn,pc	-	-
1961-W01	2437299.50	1961 Jan	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1961-W02	2437299.50	1961 Jan	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1961-A01	2437299.50	1961 Jan	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-S449	2437317.50	1961 Jan 18	Arcas	-	668 A363.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1961-M84	2437318.50	1961 Jan 19	Arcas	-	666 A361.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1961-S450	2437319.50	1961 Jan 20	Arcas	-	667 A362.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1961-W04	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SS	-	WSMR/?	Aeron	FC	-	-
1961-A30	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-A31	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-A32	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-A33	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-A34	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-A35	2437330.50	1961 Feb	Arcas	-	-	0.000	SMSA/WSMR	SF	U	WSMR/?	Aeron	FC	-	-
1961-S451	2437332.50	1961 Feb 2	Arcas	-	690 A375.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1961-M85	2437340.50	1961 Feb 10	Arcas	-	689 A374.4AA	0.000	WSMR	SS	-	ATLA/	Test	AD-437681	-	-
1961-W14	2437429.48	1961 May 9 2330	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W15	2437429.54	1961 May 10 0100	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	SP-219	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-W16	2437429.56	1961 May 10 0130?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W17	2437429.60	1961 May 10 0230?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W18	2437429.65	1961 May 10 0330?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W19	2437429.69	1961 May 10 0430?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W20	2437429.73	1961 May 10 0530?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W21	2437429.77	1961 May 10 0630?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W22	2437429.81	1961 May 10 0730?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W23	2437429.85	1961 May 10 0830?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W24	2437429.90	1961 May 10 0930?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W25	2437429.93	1961 May 10 1015	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	SP-219	-	-
1961-W26	2437429.97	1961 May 10 1115	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	SP-219	-	-
1961-W27	2437430.01	1961 May 10 1215?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W28	2437430.05	1961 May 10 1315?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W29	2437430.09	1961 May 10 1415?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W30	2437430.14	1961 May 10 1515?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W31	2437430.18	1961 May 10 1615?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W32	2437430.22	1961 May 10 1715?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W33	2437430.26	1961 May 10 1815?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W34	2437430.30	1961 May 10 1915?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W35	2437430.33	1961 May 10 2000	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	SP-219	-	-
1961-W36	2437430.39	1961 May 10 2115?	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR610522-16	-	-
1961-W37	2437430.43	1961 May 10 2215?	Arcas	-	-	0.000	APGC	SS	-	USAF/	Aeron	MR610522-16	-	-
1961-W38	2437436.32	1961 May 16 1946	Arcas	-	-	0.000	WXB?	SS	-	USAF/	Aeron	SP-219	-	-
1961-W39	2437450.50	1961 Jun	Arcas	-	-	0.000	NOL	SS	-	NOL/?	Test	AASH26-371	-	-
1961-M39	2437465.50	1961 Jun 15	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	FDC/Ulrich	-	-
1961-Y01	2437526.38	1961 Aug 14 2105	Arcas	-	RTG K61-1	0.000	RTG	SS	-	STO/Bolin	Aeron	WDCRF	SP-4401	-
1961-W42	2437541.50	1961 Aug 30	Arcas	-	-	0.000	WI	SS	-	WFF/	Aeron	TN-D-1611	-	-
1961-W43	2437541.50	1961 Aug 30	Arcas	-	-	0.000	WI	SS	-	WFF/	Aeron	TN-D-1611	-	-
1961-Y02	2437542.50	1961 Sep	Arcas	-	-	0.000	HADC	SS	-	HADC/?	Aeron	Desind	-	-
1962-W02	2437685.50	1962 Jan 21	Arcas	-	-	0.000	WI	SS	-	AFMTC/	Aeron	AE1962	-	-
1962-W03	2437685.50	1962 Jan 21	Arcas	-	-	0.000	WI	SS	-	AFMTC/	Aeron	AE1962	-	-
1962-M52	2437724.50	1962 Mar 1	Arcas	-	-	0.000	AFCRL	SU	-	AFCRL/Faire	Aeron	AP	-	-
1962-M53	2437724.50	1962 Mar 1	Arcas	-	-	0.000	AFCRL	SU	-	AFCRL/Faire	Aeron	AP	-	-
1962-W04	2437747.39	1962 Mar 23 2125:00	Arcas	-	-	0.000	GSFC	SU	-	GSFC/Nordberg	Aeron	WDCRF	-	-
1962-W05	2437747.45	1962 Mar 23 2255:00	Arcas	-	-	0.000	GSFC	SU	-	GSFC/Nordberg	Aeron	WDCRF	-	-
1962-W07	2437822.61	1962 Jun 07 0241:00	Arcas	-	-	0.000	GSFC	SU	-	GSFC/Nordberg	Aeron	WDCRF	-	-
1962-W08	2437822.65	1962 Jun 07 0329:00	Arcas	-	-	0.000	GSFC	SU	-	GSFC/Nordberg	Aeron	WDCRF	-	-
1962-A97	2437835.19	1962 Jun 19 1633:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W09	2437845.50	1962 Jun 30	Arcas	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	AE1962	-	-
1962-W10	2437847.50	1962 Jul 2	Arcas	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	AE1962	-	-
1962-W11	2437850.50	1962 Jul 5	Arcas	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	AE1962	-	-
1962-W12	2437851.50	1962 Jul 6	Arcas	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	AE1962	-	-
1962-W13	2437866.75	1962 Jul 21 0555:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W14	2437871.63	1962 Jul 26 0303:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W15	2437871.71	1962 Jul 26 0509:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W16	2437871.76	1962 Jul 26 0609:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W17	2437872.88	1962 Jul 27 0911:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W18	2437872.90	1962 Jul 27 0939:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W19	2437872.94	1962 Jul 27 1037:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W20	2437872.99	1962 Jul 27 1145:00	Arcas	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1962-W21	2437875.99	1962 Jul 30 1143:00	Arcas	?	-	0.000	APGC	SS	-	APGC/?	Aeron	WDCRF	-	-
1962-W22	2437876.07	1962 Jul 30 1341:00	Arcas	?	-	0.000	APGC	SS	-	APGC/?	Aeron	WDCRF	-	-
1962-W23	2437883.24	1962 Aug 06 1744:00	Arcas	?	-	0.000	APGC	SS	-	APGC/?	Aeron	WDCRF	-	-
1962-W24	2437883.26	1962 Aug 06 1821:00	Arcas	?	-	0.000	APGC	SS	-	APGC/?	Aeron	WDCRF	-	-
1962-W25	2437883.35	1962 Aug 06 2020:00	Arcas	?	-	0.000	APGC	SS	-	APGC/?	Aeron	WDCRF	-	-
1962-M17	2437884.42	1962 Aug 7 2202	Arcas	-	RTG K62-2	0.000	RTG/AFCRL	SS	-	STO/AFCRL/Witt	Aeron	WDCRF	-	-
1962-A139	2437893.15	1962 Aug 16 1539	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W26	2437919.23	1962 Sep 11 1732:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W27	2437928.63	1962 Sep 21 0314:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W28	2437932.22	1962 Sep 24 1711	Arcas	?	-	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1962-W29	2437932.24	1962 Sep 24 1750	Arcas	?	-	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1962-W30	2437934.68	1962 Sep 27 0419	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W36	2437940.65	1962 Oct 03 0334:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-A173	2437956.19	1962 Oct 18 1634:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W31	2437967.50	1962 Oct 30	Arcas	-	Range test	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1962-W32	2437967.50	1962 Oct 30	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1962-W33	2437969.50	1962 Nov 1?	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1962-W34	2437969.50	1962 Nov 1?	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1962-W35	2437969.50	1962 Nov 1?	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1962-W55	2437971.68	1962 Nov 3 0420	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1962-W48	2437976.19	1962 Nov 07 1635:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W56	2437983.74	1962 Nov 15 0547	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1962-W49	2437996.63	1962 Nov 28 0314:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W50	2438003.73	1962 Dec 05 0530:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-A213	2438004.78	1962 Dec 6 0647	Arcas	-	-	0.000	GSFC	SF	U	GSFC/Smith	Aeron	FC	-	-
1962-W53	2438010.68	1962 Dec 12 0417:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1962-W54	2438019.66	1962 Dec 21 0349:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W01	2438029.50	1963?	Arcas	-	-	0.000	US/LARC	SS	-	LARC/	Test	TN-D-2183	-	-
1963-W02	2438029.50	1963?	Arcas	-	-	0.000	US/LARC	SS	-	LARC/	Test	TN-D-2183	-	-
1963-W03	2438029.50	1963?	Arcas	-	-	0.000	US/LARC	SS	-	LARC/	Test	TN-D-2183	-	-
1963-W04	2438038.64	1963 Jan 09 0320:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W05	2438045.70	1963 Jan 16 0445:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W06	2438048.22	1963 Jan 18 1718	Arcas	-	-	0.000	4WG	SS	-	NASA/4WG	Aeron	FC	-	-
1963-W41	2438066.73	1963 Feb 6 0535	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1963-W42	2438087.69	1963 Feb 27 0430	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1963-W11	2438090.51	1963 Mar 2 0015:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-W43	2438143.54	1963 Apr 24 0100	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1963-W18	2438165.65	1963 May 16 0340:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W19	2438172.50	1963 May 23	Arcas	-	-	0.000	GSFC/UCAN	SS	-	UCAN/	Ionos	SP-4004	-	-
1963-W22	2438180.50	1963 Jun	Arcas	-	-	0.000	4WG	SS	-	NASA/4WG/	Aeron	FC	-	-
1963-W24	2438212.62	1963 Jul 02 0257:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1963-W25	2438239.66	1963 Jul 29 0348:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W44	2438255.60	1963 Aug 14 0230	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1963-W26	2438264.63	1963 Aug 23 0303:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W27	2438270.28	1963 Aug 28 1848	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1963-W28	2438272.50	1963 Sep	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1963-W29	2438272.50	1963 Sep	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1963-W30	2438289.65	1963 Sep 17 0330:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W31	2438290.60	1963 Sep 18 0230:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W32	2438291.25	1963 Sep 18 1800:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1963-W33	2438299.50	1963 Sep 27?	Arcas	-	-	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-3930	TN-D-3420	-
1963-W34	2438299.62	1963 Sep 27 0300:00	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	WDCRF	-	-
1963-W35	2438305.25	1963 Oct 02 1804:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1963-W45	2438305.65	1963 Oct 3 0330	Arcas	-	-	0.000	TXWC	SS	-	TXWC/Briggs	Aeron	JApMet4,238	-	-
1963-W36	2438310.25	1963 Oct 7 1800	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1963-W39	2438347.36	1963 Nov 13 2045:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1963-W40	2438376.53	1963 Dec 13 0045:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1964-W01	2438394.50	1964 Jan	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1964-W02	2438394.50	1964 Jan	Arcas	-	-	0.000	AWS	SS	-	OAR/	Aeron	FC	-	-
1964-W03	2438411.65	1964 Jan 17 0337:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1964-W04	2438423.59	1964 Jan 29 0205:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/	Aeron	WDCRF	-	-
1964-A16	2438424.50	1964 Jan 29 2357	Arcas	?	-	0.000	AWS	SF	U	GSFC/Smith	Aeron	FC	-	-
1964-W05	2438430.57	1964 Feb 5 0145	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1964-A204	2438437.50	1964 Feb 12	Arcas	-	-	0.000	NOTS	SF	U	NOTS/	Aeron	PMRHist64	-	-
1964-W08	2438438.69	1964 Feb 13 0440	Arcas	?	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1964-M129	2438439.54	1964 Feb 14 0052	Arcas	-	-	0.000	LARCN	SS	-	LARCN/	Reentry Test	SAOLab	-	-
1964-A201	2438439.56	1964 Feb 14 0132	Arcas	?	-	0.000	LARCN	SS	-	LARCN/	Meteor test	SAOLab	-	-
1964-W09	2438454.50	1964 Mar	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W10	2438454.50	1964 Mar	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W11	2438454.50	1964 Mar	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W12	2438454.50	1964 Mar	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W13	2438454.50	1964 Mar	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W14	2438468.33	1964 Mar 13 2000:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M147	2438470.50	1964 Mar 16	Arcas	-	-	0.000	NOTS	SF	U	NOTS/	Aeron	PMRHist64	-	-
1964-W15	2438480.25	1964 Mar 25 1800:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W18	2438485.80	1964 Mar 31 0715:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W17	2438485.50	1964 Apr	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W19	2438487.54	1964 Apr 02 0100:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W20	2438493.67	1964 Apr 08 0409:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W21	2438494.27	1964 Apr 08 1825:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W22	2438501.20	1964 Apr 15 1645:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M84	2438506.14	1964 Apr 20 1515	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M85	2438506.17	1964 Apr 20 1607	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M86	2438506.90	1964 Apr 21 0932	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M87	2438507.10	1964 Apr 21 1428	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M88	2438507.17	1964 Apr 21 1606	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-W23	2438508.25	1964 Apr 22 1807:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M89	2438507.96	1964 Apr 22 1059	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M90	2438508.09	1964 Apr 22 1403	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M91	2438508.19	1964 Apr 22 1633	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M92	2438508.94	1964 Apr 23 1038	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M93	2438509.09	1964 Apr 23 1403	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M94	2438509.10	1964 Apr 23 1424	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M95	2438509.18	1964 Apr 23 1623	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M96	2438509.92	1964 Apr 24 1002	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M97	2438510.09	1964 Apr 24 1404	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M98	2438512.97	1964 Apr 27 1120	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M99	2438513.08	1964 Apr 27 1402	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M100	2438513.20	1964 Apr 27 1648	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M101	2438513.94	1964 Apr 28 1028	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M102	2438513.96	1964 Apr 28 1100	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M103	2438514.09	1964 Apr 28 1403	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M104	2438514.17	1964 Apr 28 1559	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M105	2438514.20	1964 Apr 28 1646	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M106	2438514.95	1964 Apr 29 1042	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M107	2438515.09	1964 Apr 29 1408	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M108	2438515.19	1964 Apr 29 1634	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M109	2438515.98	1964 Apr 30 1129	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M110	2438516.10	1964 Apr 30 1427	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M111	2438516.18	1964 Apr 30 1619	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-W24	2438515.50	1964 May	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W25	2438515.50	1964 May	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W26	2438515.50	1964 May	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-M112	2438519.95	1964 May 4 1045	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M113	2438519.96	1964 May 4 1109	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M114	2438520.10	1964 May 4 1417	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M115	2438520.20	1964 May 4 1643	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M116	2438520.40	1964 May 4 2143	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M117	2438520.96	1964 May 5 1109	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M118	2438520.98	1964 May 5 1129	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M119	2438521.19	1964 May 5 1635	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M120	2438521.21	1964 May 5 1700	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-M121	2438521.97	1964 May 6 1120	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M122	2438522.08	1964 May 6 1400	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M123	2438522.18	1964 May 6 1622	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-W27	2438522.25	1964 May 06 1800:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M124	2438523.94	1964 May 8 1039	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M125	2438523.96	1964 May 8 1103	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M126	2438524.10	1964 May 8 1422	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M127	2438524.12	1964 May 8 1448	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-M128	2438524.20	1964 May 8 1647	Arcas	-	-	0.000	DLR	SS	-	IFAMR/Schurer	Aeron	AFCRL-TG248	-	-
1964-W28	2438536.17	1964 May 20 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W29	2438543.17	1964 May 27 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W30	2438546.50	1964 Jun	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W31	2438546.50	1964 Jun	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W32	2438546.50	1964 Jun	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W33	2438557.17	1964 Jun 10 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M156	2438563.50	1964 Jun 17	Arcas	-	-	0.000	AFMTC	SS	-	AFMTC/?	Aeron	Ulrich	-	-
1964-W34	2438564.17	1964 Jun 17 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W35	2438571.50	1964 Jun 25	Arcas	-	T1-1673	0.000	WFF	SF	U	WFF/Early	Bio	SP-109	-	-
1964-W36	2438576.50	1964 Jul	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W37	2438576.50	1964 Jul	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W38	2438576.50	1964 Jul	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W39	2438576.50	1964 Jul	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W40	2438586.50	1964 Jul 10	Arcas	-	T1-1674	0.000	WFF	SF	U	WFF/Early	Bio	SP-109	-	-
1964-W43	2438592.17	1964 Jul 15 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W45	2438599.50	1964 Jul 23	Arcas	-	T1-1675	0.000	WFF	SS	-	WFF/Early	Bio	SP-109	-	-
1964-W46	2438605.50	1964 Jul 29	Arcas	-	T1-1676	0.000	WFF	SS	-	WFF/Early	Bio	SP-109	-	-
1964-W47	2438607.50	1964 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W48	2438607.50	1964 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W49	2438607.50	1964 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W50	2438607.50	1964 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W51	2438607.50	1964 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W53	2438613.17	1964 Aug 05 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W54	2438614.00	1964 Aug 6 1207	Arcas	-	Meteo	0.000	UMI	SS	-	UMI/Wescott?	Aeron	Quest1-2	JBIS49-59	-
1964-W52	2438617.50	1964 Aug 10?	Arcas	-	-	0.000	UMI	SS	-	UMI/Wescott?	Aeron?	Quest1-2	-	-
1964-M148	2438623.50	1964 Aug 16	Arcas	-	-	0.000	NOTS	SF	U	NOTS/	Aeron	PMRHist64	-	-
1964-M151	2438633.50	1964 Aug 26	Arcas	-	-	0.000	NOTS	SS	-	NOTS/	Aeron	PMRHist64	-	-
1964-W58	2438625.50	1964 Aug 18	Arcas	-	-	0.000	LARCN	SS	-	LARC/	Meteo	NASA-PR64-202	-	-
1964-W59	2438625.50	1964 Aug 18	Arcas	-	-	0.000	LARCN	SS	-	LARC/	Meteo	NASA-PR64-202	-	-
1964-W68	2438638.50	1964 Sep	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W69	2438638.50	1964 Sep	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W70	2438638.50	1964 Sep	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W71	2438638.50	1964 Sep?	Arcas	-	-	0.000	UMI	SS	-	UMI/Wescott?	Aeron?	Quest1-2	-	-
1964-W141	2438638.50	1964 Sep	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	EDPE	-	-
1964-A127	2438642.12	1964 Sep 3 1454	Arcas	-	T1-1676	0.000	WFF	SS	-	WFF/Early	Bio	WI-PR-64-65/SP-109	MR640914-15	-
1964-W73	2438643.17	1964 Sep 04 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W74	2438652.50	1964 Sep 14	Arcas	-	-	0.000	UMI	SS	-	UMI/Wescott?	Aeron?	Quest1-2	-	-
1964-W72	2438638.50	1964 Sep?	Arcas	-	-	0.000	UMI	SS	-	UMI/Wescott?	Aeron?	Quest1-2	-	-
1964-A138	2438665.19	1964 Sep 26 1635	Arcas	-	T1-1746	0.000	WFF	SS	-	WFF/Early	Bio	WI-PR64-67/SP-109	SP-4005	-
1964-W84	2438669.17	1964 Sep 30 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W77	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W78	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W79	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W80	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W81	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W82	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W83	2438668.50	1964 Oct	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W86	2438671.17	1964 Oct 02 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W87	2438674.17	1964 Oct 05 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W88	2438676.17	1964 Oct 07 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-M149	2438676.50	1964 Oct 8	Arcas	-	-	0.000	NOTS	SS	-	NOTS/	Aeron	PMRHist64	-	-
1964-W90	2438681.17	1964 Oct 12 1607:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W91	2438683.17	1964 Oct 14 1602:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W92	2438685.17	1964 Oct 16 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W93	2438690.17	1964 Oct 21 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W95	2438692.17	1964 Oct 23 1600:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	Aeron	WDCRF	-	-
1964-W96	2438698.29	1964 Oct 29 1903:00	Arcas	?	-	0.000	AWS	SU	-	ASC45/?	usaAeron	WDCRF	-	-
1964-W97	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W98	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W99	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W100	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W101	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W102	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W103	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W104	2438699.50	1964 Nov	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W108	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W109	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W110	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W111	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W112	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W113	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W114	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W115	2438729.50	1964 Dec	Arcas	-	-	0.000	AWS	SS	-	OAR/4WG	Aeron	FC	-	-
1964-W116	2438729.50	1964 Dec	Arcas	-	-	0.000	GSFC/UCAN	SS	-	UCAN/	Ionos	SP-4401	-	-
1964-W120	2438736.97	1964 Dec 7 1115	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	SP-219	-	-
1964-W121	2438737.21	1964 Dec 7 1705	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	SP-219	-	-
1964-W122	2438741.25	1964 Dec 11 1805	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	EDPE	WDCRF	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-W125	2438745.50	1964 Dec 16	Frangible Arcas	-	FAD-1	0.000	AFCRL	SF	U	AFCRL/ATLR/Oss	Test	AFCRL66-157	MR650104-11	-
1965-W01	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W02	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W03	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W04	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W05	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W06	2438760.50	1965 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-A189	2438780.50	1965 Jan 20	Frangible Arcas	-	FAD-2	0.000	AFCRL	SF	U	AFCRL/	Test	AFCRL66-157	-	-
1965-W10	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W11	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W12	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W13	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W14	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W15	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W16	2438791.50	1965 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W210	2438808.15	1965 Feb 16 1537	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	UM2027.42/5789	-	-
1965-W211	2438809.21	1965 Feb 17 1700	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	UM2027.42/5789	-	-
1965-W21	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W22	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W23	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W24	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W25	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W26	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W27	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W28	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W29	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W30	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W31	2438819.50	1965 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/4WG	Aeron	FC	-	-
1965-W33	2438826.42	1965 Mar 6 2200	Arcas	?	-	0.000	WSMR	SS	-	WSMR/?	Aeron	SP-219	-	-
1965-W34	2438826.50	1965 Mar 7	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	SP-4006	TM-X-1346	-
1965-W36	2438828.50	1965 Mar 9	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	SP-4006	-	-
1965-W41	2438835.50	1965 Mar 16	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	SP-4006	-	-
1965-W250	2438837.50	1965 Mar 18	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W251	2438840.50	1965 Mar 21	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W45	2438841.92	1965 Mar 22 1000:00	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SR8-325	WDCRF	-
1965-W252	2438843.50	1965 Mar 24	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W253	2438846.50	1965 Mar 27	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W48	2438850.50	1965 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W49	2438850.50	1965 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W50	2438850.50	1965 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W51	2438850.50	1965 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W254	2438852.50	1965 Apr 2	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W255	2438853.50	1965 Apr 3	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W256	2438854.50	1965 Apr 4	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W257	2438855.50	1965 Apr 5	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W258	2438855.50	1965 Apr 5	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W259	2438856.50	1965 Apr 6	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W260	2438860.50	1965 Apr 10	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W261	2438861.50	1965 Apr 11	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W262	2438861.50	1965 Apr 11	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W263	2438863.50	1965 Apr 13	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W264	2438864.50	1965 Apr 14	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W265	2438865.50	1965 Apr 15	Arcas	-	-	0.000	GSFC	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W60	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W61	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W62	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W63	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W64	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W65	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W66	2438880.50	1965 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-A187	2438900.50	1965 May 20	Frangible Arcas	-	FAS-1	0.000	AFCRL	SF	U	AFCRL/	Test	AFCRL66-157	-	-
1965-W70	2438903.58	1965 May 23 0202:00	Arcas	?	-	0.000	AWS	SU	-	USAF/?	Aeron	WDCRF	-	-
1965-W71	2438904.08	1965 May 23 1400:00	Arcas	?	-	0.000	AWS	SU	-	USAF/?	Aeron	WDCRF	-	-
1965-W212	2438906.24	1965 May 25 1740	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	UM2027.42/5789	-	-
1965-W73	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W74	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W75	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W76	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W77	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W78	2438911.50	1965 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W84	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W85	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W86	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W87	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W88	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W89	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W90	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W91	2438941.50	1965 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W97	2438954.83	1965 Jul 13 0750:00	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SRVII-140	WDCRF	-
1965-W99	2438956.71	1965 Jul 15 0500:00	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SRVII-140	WDCRF	-
1965-W206	2438964.50	1965 Jul 23	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SRVII-140	-	-
1965-W213	2438972.07	1965 Jul 30 1341	Arcas	-	-	0.000	KSC	SS	-	KSC/	Aeron	UM2027.42/5789	-	-
1965-W104	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/6WW	Aeron	FC	-	-
1965-W105	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/6WW	Aeron	FC	-	-
1965-W106	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/6WW	Aeron	FC	-	-
1965-W107	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	OAR/6WW	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-W108	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W109	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W110	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W111	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W112	2438972.50	1965 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W113	2438980.04	1965 Aug 7 1300	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1965-W114	2438980.36	1965 Aug 7 2045	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1965-W115	2438980.71	1965 Aug 8 0500	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1965-W116	2438980.97	1965 Aug 8 1111	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1965-A222	2438993.20	1965 Aug 20 1642	Arcas	-	-	0.000	WFF	SS	-	WFF/Early	Bio	PostalCover	-	-
1965-A233	2438998.16	1965 Aug 25 1547	Arcas	-	-	0.000	WFF	SS	-	WFF/Early	Bio	PostalCover	-	-
1965-W121	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W122	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W123	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W124	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W125	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W126	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W127	2439003.50	1965 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W223	2439007.14	1965 Sep 3 1525	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W129	2439012.44	1965 Sep 8 2235	Arcas	-	EXAMETNET A65-01	0.000	LARCN	SS	-	LARC/	Aeron	TM-X-1298	-	-
1965-W130	2439012.56	1965 Sep 9 0126	Arcas	-	EXAMETNET A65-02	0.000	LARCN	SS	-	LARC/	Aeron	TM-X-1298	-	-
1965-W138	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W139	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W140	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W141	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W142	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W143	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W144	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W145	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W146	2439033.50	1965 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W151	2439058.67	1965 Oct 25 0400:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/	Aeron	WDCRF	-	-
1965-W214	2439059.32	1965 Oct 25 1938	Arcas	-	EXAMETNET A65-03	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W267	2439059.51	1965 Oct 26 0015	Arcas	-	EXAMETNET A65-04	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W215	2439060.27	1965 Oct 26 1834	Arcas	-	EXAMETNET A65-05	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W216	2439061.32	1965 Oct 27 1942	Arcas	-	EXAMETNET A65-06	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W154	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W155	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W156	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W157	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W158	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W159	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W160	2439064.50	1965 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W268	2439069.30	1965 Nov 4 1911	Arcas	-	EXAMETNET A65-07	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W279	2439073.30	1965 Nov 8 1905	Arcas	-	EXAMETNET A65-08	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W217	2439073.34	1965 Nov 8 2013	Arcas	-	EXAMETNET A65-09	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W218	2439075.26	1965 Nov 10 1819	Arcas	-	EXAMETNET A65-10	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W224	2439075.69	1965 Nov 11 0440	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W172	2439088.63	1965 Nov 24 0306:00	Arcas	-	-	0.000	ASL	SU	-	WSMR/?	Aeron	WDCRF	-	-
1965-W219	2439089.22	1965 Nov 24 1716	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W225	2439093.69	1965 Nov 29 0429	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W175	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W176	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W177	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W178	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W179	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W180	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W181	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W182	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W183	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W184	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W185	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W186	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W187	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W188	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W189	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W190	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W191	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W192	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W193	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W194	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W195	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W196	2439094.50	1965 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1965-W220	2439096.23	1965 Dec 1 1734	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W226	2439096.77	1965 Dec 2 0623	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-A244	2439102.50	1965 Dec 8	Arcas	-	-	0.000	UMI	SS	-	UMI/	Meteo	www.gt.org	-	-
1965-W221	2439103.35	1965 Dec 8 2031	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W227	2439103.70	1965 Dec 9 0454	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W197	2439104.43	1965 Dec 9 2215	Arcas	-	-	0.000	AWS	SS	-	OAR/6WW	Aeron	SR-VII-1050	FC	-
1965-W199	2439105.50	1965 Dec 11	Arcas	-	-	0.000	APGC	SS	-	APGC/	Aeron	MR651220-10	-	-
1965-W222	2439110.31	1965 Dec 15 1921	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-W228	2439110.75	1965 Dec 16 0601	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1965-A188	2439115.50	1965 Dec 21	Frangible Arcas	-	FAS-2	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL66-157	-	-
1966-W02	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W03	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W04	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W05	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W06	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W07	2439125.50	1966 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W10	2439131.62	1966 Jan 6 0300	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SR-VII-140	WDCRF	-
1966-W11	2439131.71	1966 Jan 6 0500	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SR-VII-140	WDCRF	-
1966-W24	2439149.78	1966 Jan 24 0640	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W434	2439146.15	1966 Jan 20 1543	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W31	2439157.83	1966 Feb 1 0800	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	MRN54	-	-
1966-W34	2439158.42	1966 Feb 1 2211	Arcas	-	-	0.000	MRN	SS	-	NASA/	Meteo	MRN54	-	-
1966-W35	2439158.62	1966 Feb 2 0300	Arcas	-	-	0.000	MRN	SS	-	GSFC/Smith	Meteo	MRN54	-	-
1966-W36	2439158.71	1966 Feb 2 0500	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	MRN54	-	-
1966-W38	2439159.12	1966 Feb 2 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W39	2439159.14	1966 Feb 2 1525	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W40	2439159.16	1966 Feb 2 1545	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	MRN54	-	-
1966-W42	2439159.23	1966 Feb 2 1730	Arcas	-	-	0.000	MRN	SS	-	ONR/	Meteo	MRN54	-	-
1966-W43	2439159.35	1966 Feb 2 2017	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W44	2439159.38	1966 Feb 2 2100	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	MRN54	-	-
1966-W45	2439159.39	1966 Feb 2 2115	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W50	2439160.33	1966 Feb 03 2000:00	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	WDCRF	MRN54	-
1966-W51	2439160.33	1966 Feb 3 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W54	2439160.80	1966 Feb 4 0705	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	MRN54	-	-
1966-W57	2439161.09	1966 Feb 4 1415	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W58	2439161.13	1966 Feb 4 1507	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W60	2439161.17	1966 Feb 4 1600	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W63	2439161.33	1966 Feb 4 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W64	2439161.54	1966 Feb 5 0101	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	MRN54	-	-
1966-W65	2439162.33	1966 Feb 5 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W66	2439163.33	1966 Feb 6 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W67	2439164.12	1966 Feb 7 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W68	2439164.13	1966 Feb 7 1501	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W69	2439164.13	1966 Feb 7 1504	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W70	2439164.21	1966 Feb 7 1705	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W73	2439164.52	1966 Feb 8 0030	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A28	2439164.80	1966 Feb 8 0715	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W75	2439165.33	1966 Feb 8 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A30	2439165.46	1966 Feb 8 2307	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A31	2439165.46	1966 Feb 8 2307	Arcas	-	-	0.000	MRN	SS	-	NASA/	Meteo	MRN54	-	-
1966-W77	2439165.50	1966 Feb 9 0000	Arcas	-	-	0.000	MRN	SS	-	NASA/	Meteo	MRN54	-	-
1966-W78	2439165.50	1966 Feb 9 0007	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W80	2439166.12	1966 Feb 9 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W81	2439166.12	1966 Feb 9 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W82	2439166.13	1966 Feb 9 1508	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W84	2439166.25	1966 Feb 9 1801	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	MRN54	-	-
1966-A33	2439166.38	1966 Feb 9 2112	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	MRN54	-	-
1966-W85	2439166.51	1966 Feb 10 0014	Arcas	-	-	0.000	MRN	SS	-	ONR/	Meteo	MRN54	-	-
1966-A34	2439166.56	1966 Feb 10 0120	Arcas	-	-	0.000	MRN	SS	-	NASA/	Meteo	MRN54	-	-
1966-W86	2439166.59	1966 Feb 10 0207	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W87	2439166.70	1966 Feb 10 0446	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W88	2439166.75	1966 Feb 10 0606	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W90	2439166.82	1966 Feb 10 0734	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W91	2439166.84	1966 Feb 10 0809	Arcas	-	-	0.000	MRN	SS	-	GSFC/Smith	Meteo	MRN54	-	-
1966-W92	2439166.86	1966 Feb 10 0843	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W93	2439166.93	1966 Feb 10 1017	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W95	2439167.29	1966 Feb 10 1900	Arcas	-	-	0.000	MRN	SS	-	GSFC/Smith	Meteo	MRN54	-	-
1966-W96	2439167.29	1966 Feb 10 1900	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W98	2439167.33	1966 Feb 10 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W101	2439167.49	1966 Feb 10 2340	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W102	2439167.51	1966 Feb 11 0008	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W103	2439167.55	1966 Feb 11 0114	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W104	2439167.59	1966 Feb 11 0214	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W105	2439167.62	1966 Feb 11 0300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W106	2439167.63	1966 Feb 11 0311	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W107	2439168.12	1966 Feb 11 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W110	2439168.34	1966 Feb 11 2012	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W111	2439168.42	1966 Feb 11 2211	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W112	2439168.47	1966 Feb 11 2319	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W114	2439171.12	1966 Feb 14 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W115	2439171.12	1966 Feb 14 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W116	2439171.14	1966 Feb 14 1515	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W117	2439171.17	1966 Feb 14 1600	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W118	2439171.23	1966 Feb 14 1730	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W120	2439171.33	1966 Feb 14 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W123	2439172.33	1966 Feb 15 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W128	2439173.13	1966 Feb 16 1510	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W129	2439173.16	1966 Feb 16 1545	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W130	2439173.19	1966 Feb 16 1629	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W131	2439173.25	1966 Feb 16 1800	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W133	2439173.33	1966 Feb 16 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W134	2439173.50	1966 Feb 17 0002	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W138	2439174.33	1966 Feb 17 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W142	2439175.10	1966 Feb 18 1430	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W145	2439175.25	1966 Feb 18 1800	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W147	2439175.27	1966 Feb 18 1835	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W151	2439175.36	1966 Feb 18 2034	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W153	2439175.95	1966 Feb 19 1055	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W154	2439176.05	1966 Feb 19 1312	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W155	2439176.33	1966 Feb 19 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W156	2439177.04	1966 Feb 20 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W157	2439177.33	1966 Feb 20 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W158	2439178.04	1966 Feb 21 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W159	2439178.04	1966 Feb 21 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W160	2439178.10	1966 Feb 21 1430	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W161	2439178.11	1966 Feb 21 1445	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W162	2439178.12	1966 Feb 21 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W166	2439179.04	1966 Feb 22 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W167	2439179.04	1966 Feb 22 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W168	2439179.33	1966 Feb 22 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W169	2439179.45	1966 Feb 22 2245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W170	2439179.45	1966 Feb 22 2255	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W171	2439180.04	1966 Feb 23 1300	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W172	2439180.12	1966 Feb 23 1446	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W174	2439180.25	1966 Feb 23 1800	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W177	2439180.33	1966 Feb 23 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W179	2439180.35	1966 Feb 23 2022	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W180	2439180.47	1966 Feb 23 2320	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W182	2439181.03	1966 Feb 24 1245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W183	2439181.03	1966 Feb 24 1245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W184	2439182.03	1966 Feb 25 1245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W185	2439182.06	1966 Feb 25 1321	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W186	2439182.10	1966 Feb 25 1430	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W187	2439182.17	1966 Feb 25 1600	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W190	2439182.45	1966 Feb 25 2245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W191	2439182.45	1966 Feb 25 2245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W192	2439182.53	1966 Feb 26 0045	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W193	2439182.61	1966 Feb 26 0245	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W194	2439183.22	1966 Feb 26 1712	Arcas	-	-	0.000	MRN	SS	-	KSC/	Meteo	MRN54	-	-
1966-W196	2439183.28	1966 Feb 26 1850	Arcas	-	AS-201 support	0.000	AWS	SS	-	USAF/	Meteo	MSC-A-R-66-4	MRN-54	-
1966-W197	2439183.33	1966 Feb 26 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W199	2439184.28	1966 Feb 27 1845	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W200	2439184.33	1966 Feb 27 2000	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W210	2439184.77	1966 Feb 28 0630	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W211	2439185.11	1966 Feb 28 1445	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W212	2439185.12	1966 Feb 28 1500	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W216	2439185.44	1966 Feb 28 2230	Arcas	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W201	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W202	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W203	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W204	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W205	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W206	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W207	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W208	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W209	2439184.50	1966 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W452	2439202.60	1966 Mar 18 0231	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W435	2439203.14	1966 Mar 18 1517	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W228	2439216.50	1966 Apr 1	Arcas	-	-	0.000	AFCRL	SF	U	AFCRL/USU/	Aeron	AFCRL67-0343	FC	-
1966-W229	2439215.50	1966 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W230	2439215.50	1966 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W408	2439226.50	1966 Apr 11	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W409	2439226.50	1966 Apr 11	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W410	2439226.50	1966 Apr 11	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W411	2439226.50	1966 Apr 11	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W412	2439226.50	1966 Apr 11?	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W413	2439227.50	1966 Apr 12?	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W414	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W415	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W416	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W417	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W418	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W419	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W420	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W421	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W422	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W423	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W424	2439227.50	1966 Apr 12	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W425	2439227.50	1966 Apr 12?	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W426	2439228.50	1966 Apr 13?	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W427	2439228.50	1966 Apr 13	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W428	2439228.50	1966 Apr 13	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W429	2439228.50	1966 Apr 13	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W430	2439228.50	1966 Apr 13	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W431	2439228.50	1966 Apr 13	Arcas	-	-	0.000	AWS	SS	-	AFCRL/	Aeron	SR8-823	-	-
1966-W231	2439231.29	1966 Apr 15 1903	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1966-M100	2439235.50	1966 Apr 20	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M101	2439237.50	1966 Apr 22	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W239	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W240	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W241	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W242	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W243	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W244	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W245	2439245.50	1966 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W250	2439247.65	1966 May 2 0330	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W251	2439249.54	1966 May 4 0100	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1966-W252	2439256.36	1966 May 10 2045	Arcas	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR-66-25	SP-4007	-
1966-W253	2439256.63	1966 May 11 0306:04	Arcas	-	-	0.000	WFF	SS	-	WFF/	Aeron	SAOLab/SL6-67	SP-4007	-
1966-W254	2439257.50	1966 May 12	Arcas	-	-	0.000	WFF	SS	-	WFF/	Aeron	SP-4007	-	-
1966-W255	2439258.50	1966 May 13	Arcas	-	-	0.000	WFF	SS	-	WFF/	Aeron	SP-4007	-	-
1966-M102	2439268.50	1966 May 23	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M103	2439270.50	1966 May 25	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W262	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W263	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W264	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W265	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W266	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W267	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W268	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W269	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W270	2439276.50	1966 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W438	2439278.17	1966 Jun 1 1607	Arcas	-	EXAMETNET W09	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W271	2439278.19	1966 Jun 1 1631	Arcas	-	EXAMETNET N08	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	WDCRF	-	-
1966-W439	2439280.12	1966 Jun 3 1446	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W01	2439292.15	1966 Jun 15 1532	Arcas	-	EXAMETNET N09	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W499	2439292.26	1966 Jun 15 1814	Arcas	-	EXAMETNET W10	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1966-W277	2439293.68	1966 Jun 17 0423	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1966-W279	2439299.81	1966 Jun 23 0724	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1966-W440	2439301.13	1966 Jun 24 1501	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W441	2439306.11	1966 Jun 29 1436	Arcas	-	EXAMETNET W11	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W487	2439306.18	1966 Jun 29 1619	Arcas	-	EXAMETNET N10	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W280	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W281	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W282	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W283	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W284	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W285	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W286	2439306.50	1966 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W287	2439310.33	1966 Jul 3 1953	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1966-W432	2439312.17	1966 Jul 5 1600	Arcas	-	-	0.000	MRN	SS	-	KSC/	Meteo	UM2027.42/5789	-	-
1966-M104	2439313.50	1966 Jul 7	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M105	2439315.13	1966 Jul 8 1509	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W442	2439320.30	1966 Jul 13 1914	Arcas	-	EXAMETNET W12	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W443	2439322.09	1966 Jul 15 1411	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W488	2439322.17	1966 Jul 15 1605	Arcas	-	EXAMETNET N11	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W444	2439329.12	1966 Jul 22 1446	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-M106	2439333.50	1966 Jul 27	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M107	2439335.50	1966 Jul 29	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W295	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W296	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W297	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W298	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W299	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W300	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W301	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W302	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W303	2439337.50	1966 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W489	2439344.83	1966 Aug 7 0758	Arcas	-	EXAMETNET N12	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W304	2439344.95	1966 Aug 7 1055	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	-	-
1966-W305	2439345.27	1966 Aug 7 1831	Arcas	-	-	0.000	AWS	SS	-	GSFC/Smith	Aeron	FC	JAtSci33,695	-
1966-W453	2439350.43	1966 Aug 12 2224	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-M108	2439353.12	1966 Aug 15 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W454	2439353.80	1966 Aug 16 0706	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-M129	2439353.81	1966 Aug 16 0730	Arcas	?	-	0.000	MRN	SS	-	MRN/	Meteo	TN-D-4741	-	-
1966-M131	2439353.81	1966 Aug 16 0730	Arcas	?	-	0.000	MRN	SS	-	MRN/	Meteo	TN-D-4741	-	-
1966-M130	2439353.83	1966 Aug 16 0750	Arcas	?	-	0.000	MRN	SS	-	MRN/	Meteo	TN-D-4741	-	-
1966-M109	2439354.12	1966 Aug 16 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W461	2439354.12	1966 Aug 16 1500	Arcas	-	-	0.000	WFF	SS	-	KSC/AFCRL/	Meteo/Test	BT1037.21	-	-
1966-W462	2439354.17	1966 Aug 16 1600	Arcas	-	-	0.000	WFF	SS	-	KSC/AFCRL/	Meteo/Test	BT1037.21	-	-
1966-W490	2439355.15	1966 Aug 17 1537	Arcas	-	EXAMETNET N13	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W455	2439355.49	1966 Aug 17 2340	Arcas	-	EXAMETNET W14	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-M110	2439356.12	1966 Aug 18 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W445	2439357.15	1966 Aug 19 1538	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W433	2439364.12	1966 Aug 26 1500	Arcas	-	-	0.000	MRN	SS	-	KSC/	Meteo	UM2027.42/5789	-	-
1966-W446	2439364.33	1966 Aug 26 1954	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W456	2439365.70	1966 Aug 28 0451	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-M142	2439366.50	1966 Aug 29	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	USCOSPAR67-81	-	-
1966-W447	2439367.19	1966 Aug 29 1631	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W457	2439367.56	1966 Aug 30 0121	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W330	2439368.50	1966 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W331	2439368.50	1966 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W332	2439368.50	1966 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W333	2439368.50	1966 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W311	2439375.71	1966 Sep 7 0500	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W312	2439375.88	1966 Sep 7 0900	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-Y40	2439375.90	1966 Sep 7 0930:00	Arcas	-	-	0.000	PSU	SS	-	PSU/Hale	Ionos	SR8-328	-	-
1966-W313	2439376.04	1966 Sep 7 1300	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W448	2439376.15	1966 Sep 7 1535	Arcas	-	EXAMETNET W15	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W314	2439376.21	1966 Sep 7 1700	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W315	2439376.38	1966 Sep 7 2100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W316	2439376.54	1966 Sep 8 0100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W317	2439376.71	1966 Sep 8 0500	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W318	2439376.88	1966 Sep 8 0900	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W319	2439377.04	1966 Sep 8 1300	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W320	2439377.21	1966 Sep 8 1700	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W321	2439377.38	1966 Sep 8 2100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W322	2439377.54	1966 Sep 9 0100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W323	2439377.71	1966 Sep 9 0500	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W324	2439377.88	1966 Sep 9 0900	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W325	2439378.04	1966 Sep 9 1300	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W449	2439378.16	1966 Sep 9 1550	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W326	2439378.21	1966 Sep 9 1700	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W327	2439378.38	1966 Sep 9 2100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W328	2439378.54	1966 Sep 10 0100	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W329	2439378.71	1966 Sep 10 0500	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,659/FC	-	-
1966-W491	2439383.15	1966 Sep 14 1539	Arcas	-	EXAMETNET N14	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-M111	2439383.27	1966 Sep 14 1830	Arcas	-	Ballute	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M112	2439384.17	1966 Sep 15 1600	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W450	2439385.32	1966 Sep 16 1935	Arcas	-	EXAMETNET W16	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W458	2439385.67	1966 Sep 17 0402	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-M113	2439388.12	1966 Sep 19 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M114	2439389.12	1966 Sep 20 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W451	2439392.28	1966 Sep 23 1848	Arcas	-	EXAMETNET W17	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W482	2439397.25	1966 Sep 28 1805	Arcas	-	EXAMETNET C12A?	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	SP-175	-	-
1966-W340	2439396.50	1966 Sep 28	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/USU/	Aeron	AFCRL67-0343	FC	-
1966-W339	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W341	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W342	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W343	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W344	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W345	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W346	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W347	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W348	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W349	2439398.50	1966 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W459	2439399.52	1966 Oct 1 0033	Arcas	-	EXAMETNET W18	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W460	2439403.50	1966 Oct 5 0007	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-W354	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W355	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W356	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W357	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W358	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W359	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W360	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W361	2439429.50	1966 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-A137	2439438.50	1966 Nov 9	Arcas	-	-	0.000	AWS	SS	-	USAF/	Aeron	SP-4007	-	-
1966-W436	2439439.35	1966 Nov 9 2031	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1966-Y45	2439440.88	1966 Nov 11 0901	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y46	2439441.09	1966 Nov 11 1406	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y47	2439441.25	1966 Nov 11 1800	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y48	2439442.02	1966 Nov 12 1233	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y49	2439442.04	1966 Nov 12 1303	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y50	2439442.08	1966 Nov 12 1400	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y51	2439442.10	1966 Nov 12 1431	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y52	2439442.21	1966 Nov 12 1702	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y53	2439441.50	1966 Nov 12	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y54	2439441.50	1966 Nov 12	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y55	2439441.50	1966 Nov 12	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-Y56	2439441.50	1966 Nov 12	Arcas	-	-	0.000	CONAE/GSFC	SS	-	WSMR/CONAE/Webb,Tabanera	Aeron/Eclipse	SP-4401	-	-
1966-W492	2439446.13	1966 Nov 16 1505	Arcas	-	EXAMETNET N16	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W437	2439446.17	1966 Nov 16 1606	Arcas	-	EXAMETNET W21	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-175	-
1966-W376	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W377	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W378	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W379	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W380	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W381	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W382	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W383	2439459.50	1966 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1966-W384	2439469.65	1966 Dec 10 0337	Arcas	-	-	0.000	LARCN/MRN	SS	-	LARC/	Meteo	TN-D-4905	-	-
1966-W386	2439469.66	1966 Dec 10 0352	Arcas	-	-	0.000	LARCN/MRN	SS	-	LARC/	Meteo	TN-D-4905	-	-
1966-W387	2439469.67	1966 Dec 10 0400	Arcas	-	-	0.000	LARCN/MRN	SS	-	LARC/	Meteo	TN-D-4905	-	-
1966-A150	2439469.77	1966 Dec 10 0628	Arcas	-	-	0.000	LARCN/MRN	SS	-	LARC/	Meteo	TN-D-4905	-	-
1966-W389	2439469.77	1966 Dec 10 0630	Arcas	-	-	0.000	LARCN/MRN	SS	-	LARC/	Meteo	TN-D-4905	-	-
1966-W391	2439469.88	1966 Dec 10 0900	Arcas	-	-	0.000	LARCN/MRN	SS	-	USAF/6WW	Meteo	TN-D-4905	-	-
1966-W392	2439470.26	1966 Dec 10 1812?	Arcas	-	-	0.000	WSMR	SS	-	LARC/	Meteo	TM-X-1451	-	-
1966-M141	2439471.50	1966 Dec 12	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	USCOSPAR67-81	-	-
1966-W407	2439473.29	1966 Dec 13 1900	Arcas	-	-	0.000	ERDA	SS	-	PSU/Hale	Ionos	SR8-325	-	-
1967-W01	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W02	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W03	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W04	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W05	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W06	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W07	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W08	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W09	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-W10	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W11	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W12	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W13	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W14	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W15	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W16	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W17	2439490.50	1967 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W240	2439509.17	1967 Jan 18 1604	Arcas	-	EXAMETNET W23	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-M157	2439510.48	1967 Jan 19 2329	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	Ulrich/Wire	-	-
1967-M158	2439510.48	1967 Jan 19 2334	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	Ulrich/Wire	-	-
1967-W294	2439513.75	1967 Jan 23 0600	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-W295	2439513.88	1967 Jan 23 0900	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-W296	2439514.00	1967 Jan 23 1200	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-W297	2439514.26	1967 Jan 23 1815	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-W298	2439514.28	1967 Jan 23 1841	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-W241	2439516.19	1967 Jan 25 1639	Arcas	-	EXAMETNET W24	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-M22	2439521.10	1967 Jan 30 1430	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M23	2439522.12	1967 Jan 31 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W242	2439522.32	1967 Jan 31 1935	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W18	2439522.42	1967 Jan 31 2200	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1967-W38	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W39	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W40	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W41	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W42	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W43	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W44	2439521.50	1967 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W45	2439523.10	1967 Feb 1 1430	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1967-W243	2439523.28	1967 Feb 1 1838	Arcas	-	EXAMETNET W25	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W244	2439525.27	1967 Feb 3 1825	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W245	2439537.20	1967 Feb 15 1651	Arcas	-	EXAMETNET W27	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W49	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W50	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W51	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W52	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W53	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W54	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W55	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W56	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W57	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W58	2439549.50	1967 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-M24	2439551.12	1967 Mar 1 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M25	2439552.17	1967 Mar 2 1600	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W246	2439558.14	1967 Mar 8 1521	Arcas	-	EXAMETNET W29	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W247	2439574.30	1967 Mar 24 1913	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W75	2439581.28	1967 Mar 31 1844	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	SP-4008	-
1967-W62	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W63	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W64	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W65	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W66	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W67	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W68	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W69	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W70	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W71	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W72	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W73	2439580.50	1967 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W77	2439584.89	1967 Apr 4 0927	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W79	2439584.92	1967 Apr 4 1002	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W81	2439584.97	1967 Apr 4 1119	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W84	2439585.20	1967 Apr 4 1643	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W85	2439585.29	1967 Apr 4 1902	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W87	2439585.46	1967 Apr 4 2259	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W89	2439585.52	1967 Apr 5 0032	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W91	2439585.56	1967 Apr 5 0129	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W93	2439585.67	1967 Apr 5 0358	Arcas	-	-	0.000	WFF	SS	-	ESSA/	Aeron	ISTS7	-	-
1967-W250	2439587.40	1967 Apr 6 2143	Arcas	-	EXAMETNET W33	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W251	2439592.27	1967 Apr 11 1825	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-M26	2439593.12	1967 Apr 12 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W321	2439593.13	1967 Apr 12 1509	Arcas	-	EXAMETNET W34	0.000	WFF	SS	-	WFF/	Meteo	SP-176	-	-
1967-W252	2439595.13	1967 Apr 14 1501	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-M27	2439600.12	1967 Apr 19 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W253	2439601.25	1967 Apr 20 1806	Arcas	-	EXAMETNET W35	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-A71	2439601.36	1967 Apr 20 2035	Arcas	-	NASA 15.55GT	0.000	WFF	SF	U	GSFC/Hudgins,Lease	Test	WDCRF	-	-
1967-W254	2439607.12	1967 Apr 26 1451	Arcas	-	EXAMETNET W36	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W105	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W106	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W107	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W108	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W109	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W110	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W111	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W112	2439610.50	1967 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W268	2439614.09	1967 May 3 1407	Arcas	-	EXAMETNET W37	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-W340	2439614.67	1967 May 4 0403	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Meteo	StratoCirc,453	-	-
1967-W341	2439614.67	1967 May 4 0403	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Meteo	StratoCirc,453	-	-
1967-W337	2439615.19	1967 May 4 1629	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Meteo	StratoCirc,453	-	-
1967-W338	2439615.19	1967 May 4 1629	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Meteo	StratoCirc,453	-	-
1967-W339	2439615.19	1967 May 4 1629	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Meteo	StratoCirc,453	-	-
1967-W269	2439615.36	1967 May 4 2033	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W291	2439615.81	1967 May 5 0726	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-M28	2439621.12	1967 May 10 1500	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M29	2439621.17	1967 May 10 1600	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W270	2439621.25	1967 May 10 1758	Arcas	-	EXAMETNET W38	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W271	2439628.10	1967 May 17 1429	Arcas	-	EXAMETNET W39	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W118	2439628.18	1967 May 17 1615	Arcas	-	EXAMETNET C20	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W272	2439636.28	1967 May 25 1849	Arcas	-	EXAMETNET W40	0.000	WFF	SS	-	WFF/	Meteo	SP-176	MoWxRev97,607	-
1967-W119	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W120	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W121	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W122	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W123	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W124	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W125	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W126	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W127	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W128	2439641.50	1967 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W273	2439644.28	1967 Jun 2 1846	Arcas	-	EXAMETNET W41	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W129	2439648.58	1967 Jun 7 0200	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sandock	Ionos	FC	WDCRF	-
1967-W274	2439649.11	1967 Jun 7 1432	Arcas	-	EXAMETNET W42	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W130	2439656.19	1967 Jun 14 1640	Arcas	-	EXAMETNET C21	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W275	2439657.24	1967 Jun 15 1742	Arcas	-	EXAMETNET W43	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W299	2439661.10	1967 Jun 19 1430?	Arcas	-	-	0.000	LARCN	SS	-	WSMR/	Meteo	TM-X-1542	-	-
1967-W276	2439663.09	1967 Jun 21 1414	Arcas	-	EXAMETNET W44	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W132	2439663.34	1967 Jun 21 2006	Arcas	-	NASA 15.13UP	0.000	WFF	SF	U	DUD/Hemenway	Aeronomy	WDCRF	-	-
1967-W277	2439670.13	1967 Jun 28 1501	Arcas	-	EXAMETNET W45	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W138	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W139	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W140	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W141	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W142	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W143	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W144	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W145	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W146	2439671.50	1967 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W278	2439677.11	1967 Jul 5 1442	Arcas	-	EXAMETNET W46	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-M30	2439677.50	1967 Jul 6	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W325	2439692.34	1967 Jul 20 2011	Arcas	-	EXAMETNET W47	0.000	WFF	SS	-	WFF/	Meteo	SP-176	-	-
1967-W279	2439698.09	1967 Jul 26 1414	Arcas	-	EXAMETNET W48	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W156	2439699.50	1967 Jul 28	Arcas	-	-	0.000	LARCN	SS	-	LARC/?	Aeron	TM-X-1499	-	-
1967-W280	2439700.08	1967 Jul 28 1359	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W157	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W158	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W159	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W160	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W161	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W162	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W163	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W164	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W165	2439702.50	1967 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W166	2439705.46	1967 Aug 2 2258	Arcas	-	NASA 15.16DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W292	2439711.53	1967 Aug 9 0043	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W293	2439711.56	1967 Aug 9 0130	Arcas	-	EXAMETNET W49	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-A104	2439711.98	1967 Aug 9 1127	Arcas	-	-	0.000	WFF	SS	-	WFF/Neville	Bio	SP-4008	-	-
1967-M31	2439718.50	1967 Aug 16	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W281	2439719.23	1967 Aug 16 1730	Arcas	-	EXAMETNET W50	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W282	2439721.09	1967 Aug 18 1411	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W170	2439724.31	1967 Aug 21 1932	Arcas	-	NASA 15.17DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W171	2439724.50	1967 Aug 22	Arcas	-	#76	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W283	2439728.10	1967 Aug 25 1417	Arcas	-	EXAMETNET W51	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W284	2439733.26	1967 Aug 30 1818	Arcas	-	EXAMETNET W52	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W174	2439733.50	1967 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W175	2439733.50	1967 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W176	2439733.50	1967 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W285	2439740.11	1967 Sep 6 1435	Arcas	-	EXAMETNET W53	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W286	2439742.10	1967 Sep 8 1418	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W179	2439747.52	1967 Sep 14 0029	Arcas	-	NASA 15.35DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W287	2439749.07	1967 Sep 15 1345	Arcas	-	EXAMETNET W54	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W181	2439750.51	1967 Sep 17 0015	Arcas	-	NASA 15.36DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W184	2439752.50	1967 Sep 19	Arcas	-	#91	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W185	2439752.50	1967 Sep 19	Arcas	-	#96	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W186	2439753.50	1967 Sep 20 0000	Arcas	-	NASA 15.37DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W187	2439753.50	1967 Sep 20	Arcas	-	#98	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W288	2439754.15	1967 Sep 20 1529	Arcas	-	EXAMETNET W55	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W289	2439756.15	1967 Sep 22 1530	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W290	2439761.11	1967 Sep 27 1445	Arcas	-	EXAMETNET W56	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W189	2439763.50	1967 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W190	2439763.50	1967 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W191	2439763.50	1967 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W322	2439768.50	1967 Oct 5 0007	Arcas	-	EXAMETNET W57	0.000	WFF	SS	-	WFF/	Meteo	SP-176	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-W255	2439769.09	1967 Oct 5 1413	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W256	2439770.27	1967 Oct 6 1834	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W257	2439776.15	1967 Oct 12 1530	Arcas	-	EXAMETNET W58	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	SP-176	-
1967-W194	2439777.40	1967 Oct 13 2134	Arcas	-	NASA 15.38DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	AnnalesGeo25,307	WDCRF	-
1967-W192	2439777.48	1967 Oct 13 2335	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1967-W197	2439783.38	1967 Oct 19 2104	Arcas	-	NASA 15.39DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W258	2439784.08	1967 Oct 20 1350	Arcas	-	EXAMETNET W59	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W200	2439786.37	1967 Oct 22 2046	Arcas	-	NASA 15.40DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-W259	2439789.10	1967 Oct 25 1417	Arcas	-	EXAMETNET W60	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W204	2439789.35	1967 Oct 25 2030	Arcas	-	NASA 15.41DA	0.000	NOTS/GSFC	SS	-	NOTS/Horowitz	Aeronomy	WDCRF	-	-
1967-M32	2439790.50	1967 Oct 27	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W260	2439791.12	1967 Oct 27 1455	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W206	2439794.50	1967 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W207	2439794.50	1967 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W208	2439794.50	1967 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W209	2439794.50	1967 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W210	2439794.50	1967 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W261	2439798.23	1967 Nov 3 1726	Arcas	-	EXAMETNET W61	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W212	2439802.50	1967 Nov 8	Arcas	-	#119 R-112	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W217	2439809.50	1967 Nov 15	Arcas	-	#118 R-113	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W218	2439809.50	1967 Nov 15	Arcas	-	#117 R-112	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W219	2439810.16	1967 Nov 15 1557	Arcas	-	EXAMETNET C26	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W262	2439812.15	1967 Nov 17 1542	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W263	2439816.14	1967 Nov 21 1515	Arcas	-	EXAMETNET W63	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W264	2439824.33	1967 Nov 29 1953	Arcas	-	EXAMETNET W64	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W228	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W229	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W230	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W231	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W232	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W233	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-W234	2439824.50	1967 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1967-A141	2439831.46	1967 Dec 6 2303	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sandock	Ionos	FC	WDCRF	-
1967-W265	2439833.25	1967 Dec 8 1759	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-W266	2439838.26	1967 Dec 13 1816	Arcas	-	EXAMETNET W66	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1967-M33	2439842.50	1967 Dec 18	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W267	2439844.36	1967 Dec 19 2041	Arcas	-	-	0.000	WFF	SS	-	WFF/	Meteo	MoWxRev97,607	-	-
1968-W01	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W02	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W03	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W04	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W05	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W06	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W07	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W08	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W09	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W10	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W11	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W12	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W13	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W14	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W15	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W16	2439855.50	1968 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W17	2439860.33	1968 Jan 4 2000	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1968-W312	2439861.20	1968 Jan 5 1650	Arcas	-	EXAMETNET W 67	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W278	2439864.53	1968 Jan 9 0050	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	MWxRev98,402	-	-
1968-W279	2439864.71	1968 Jan 9 0500	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	MWxRev98,402	-	-
1968-W280	2439865.07	1968 Jan 9 1335	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	MWxRev98,402	-	-
1968-W281	2439865.22	1968 Jan 9 1715	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	MWxRev98,402	-	-
1968-W282	2439865.43	1968 Jan 9 2215	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Randhawa	Aeron	MWxRev98,402	-	-
1968-W313	2439866.28	1968 Jan 10 1840	Arcas	-	EXAMETNET W 68	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W314	2439873.17	1968 Jan 17 1612	Arcas	-	EXAMETNET W 69	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W29	2439873.23	1968 Jan 17 1725	Arcas	-	EXAMETNET C28	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-Y08	2439877.50	1968 Jan 22	Arcas	-	-	0.000	WSMR/PSU	SS	-	PSU/	Aeron/CR	PSU-SR335	-	-
1968-W315	2439882.17	1968 Jan 26 1559	Arcas	-	EXAMETNET W 70	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W33	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W34	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W35	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W36	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W37	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W38	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W39	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W40	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W41	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W42	2439886.50	1968 Feb	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W43	2439892.47	1968 Feb 5 2314	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	FC	-
1968-W317	2439901.13	1968 Feb 14 1513	Arcas	-	EXAMETNET W 72	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W318	2439907.41	1968 Feb 20 2144	Arcas	-	EXAMETNET W 73	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W319	2439915.14	1968 Feb 28 1528	Arcas	-	EXAMETNET W 74	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-M44	2439915.50	1968 Feb 29	Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1968-W51	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W52	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W53	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W54	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W55	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W56	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W57	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W58	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W59	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W60	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W61	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W62	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W63	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W64	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W65	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W66	2439915.50	1968 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-Y16	2439921.50	1968 Mar 6	Arcas	-	-	0.000	GSFC/PSU	SS	-	PSU/	Aeron/CR	PSU-SR335	-	-
1968-W320	2439922.13	1968 Mar 6 1503	Arcas	-	EXAMETNET W 75	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W69	2439929.14	1968 Mar 13 1528	Arcas	-	EXAMETNET C30	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-W321	2439930.12	1968 Mar 14 1500	Arcas	-	EXAMETNET W 76	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W322	2439937.18	1968 Mar 21 1618	Arcas	-	EXAMETNET W 77	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W71	2439943.17	1968 Mar 27 1558:00	Arcas	-	EXAMETNET C32	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W323	2439943.28	1968 Mar 27 1841	Arcas	-	EXAMETNET W 78	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W73	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W74	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W75	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W76	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W77	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W78	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W79	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W80	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W81	2439946.50	1968 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W324	2439950.17	1968 Apr 3 1559	Arcas	-	EXAMETNET W 79	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W285	2439952.25	1968 Apr 5 1807	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1968-W85	2439954.50	1968 Apr 8	Super Arcas	-	NASA 12.11GM	0.000	WFF	SF	U	GSFC/Smith	Aeronomy/Test	SP-4401	-	-
1968-W86	2439956.59	1968 Apr 10 0210:00	Arcas	-	EXAMETNET C34	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W325	2439957.13	1968 Apr 10 1505	Arcas	-	EXAMETNET W 80	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W91	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W92	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W93	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W94	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W95	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W96	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W97	2439976.50	1968 May	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W329	2439985.12	1968 May 8 1459	Arcas	-	EXAMETNET W 84	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W330	2439992.22	1968 May 15 1712	Arcas	-	EXAMETNET W 85	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W105	2439993.77	1968 May 17 0630	Arcas	?	Sandia	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-W106	2439994.10	1968 May 17 1430	Arcas	?	Sandia	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-W107	2439994.48	1968 May 17 2337	Arcas	?	Sandia	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-Y30	2439998.50	1968 May 22	Arcas	-	-	0.000	WSMR/PSU	SS	-	PSU/	Aeron/CR	PSU-SR335	-	-
1968-W331	2439999.10	1968 May 22 1420	Arcas	-	EXAMETNET W 86	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W110	2440000.31	1968 May 23 1930	Arcas	?	Sandia	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-W112	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W113	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W114	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W115	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W116	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W117	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W118	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W119	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W120	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W121	2440007.50	1968 Jun	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W332	2440013.30	1968 Jun 5 1915	Arcas	-	EXAMETNET W 87	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W333	2440021.09	1968 Jun 13 1413	Arcas	-	EXAMETNET W 88	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W125	2440021.26	1968 Jun 13 1820:00	Arcas	-	EXAMETNET C38	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-W334	2440027.11	1968 Jun 19 1432	Arcas	-	EXAMETNET W 89	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W129	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W130	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W131	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W132	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W133	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W134	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W135	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W136	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W137	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W138	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W139	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W140	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W141	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W142	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W143	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W144	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W145	2440037.50	1968 Jul	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W335	2440040.16	1968 Jul 2 1554	Arcas	-	EXAMETNET W 90	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W336	2440048.12	1968 Jul 10 1447	Arcas	-	EXAMETNET W 91	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W152	2440053.57	1968 Jul 16 0145:00	Arcas	-	EXAMETNET C40	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W337	2440055.09	1968 Jul 17 1412	Arcas	-	EXAMETNET W 92	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W154	2440056.26	1968 Jul 18 1813	Arcas	-	FC-OR-348	0.000	AWS	SS	-	NWC/Krueger	Aeron	FC	-	-
1968-W286	2440057.23	1968 Jul 19 1732	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1968-W155	2440057.27	1968 Jul 19 1836	Arcas	-	FC-OR-348	0.000	AWS	SS	-	NWC/Krueger	Aeron	FC	-	-
1968-W338	2440062.13	1968 Jul 24 1506	Arcas	-	EXAMETNET W 93	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W307	2440062.17	1968 Jul 24 1602	Arcas	-	EXAMETNET N40	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W339	2440069.18	1968 Jul 31 1618	Arcas	-	EXAMETNET W 94	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W156	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W157	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W158	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W159	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W160	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W161	2440068.50	1968 Aug	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W341	2440083.23	1968 Aug 14 1730	Arcas	-	EXAMETNET W 96	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-A89	2440083.48	1968 Aug 14 2328:00	Arcas	-	EXAMETNET C42	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W342	2440090.06	1968 Aug 21 1321	Arcas	-	EXAMETNET W 97	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W343	2440097.10	1968 Aug 28 1421	Arcas	-	EXAMETNET W 98	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W171	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W172	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W173	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W174	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W175	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W176	2440099.50	1968 Sep	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W344	2440104.16	1968 Sep 4 1544	Arcas	-	EXAMETNET W 99	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W345	2440111.26	1968 Sep 11 1810	Arcas	-	EXAMETNET W 100	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W284	2440111.26	1968 Sep 11 1821	Arcas	?	Arcasonde	0.000	NOTS?	SS	-	NOTS/?	Meteo	BT-1040.04	-	-
1968-W187	2440116.25	1968 Sep 16 1807	Arcas	-	NASA 15.60UE	0.000	WFF/NOTS	SS	-	NOTS/Krueger	Plasma	WDCRF	SP-4010	-
1968-M67	2440116.26	1968 Sep 16 1812	Arcas	-	-	0.000	WFF	SS	-	WFF/	Aeron	TM-79712	-	-
1968-W346	2440118.11	1968 Sep 18 1441	Arcas	-	EXAMETNET W 101	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W308	2440118.14	1968 Sep 18 1519	Arcas	-	EXAMETNET N41	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W293	2440119.65	1968 Sep 20 0340	Arcas	-	EXAMETNET C44	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1968-W189	2440124.57	1968 Sep 25 0140	Arcas	-	PSU-NO-1	0.000	ERDA	SS	-	PSU/Hale	Aeron	SR10,208	-	-
1968-W347	2440125.10	1968 Sep 25 1424	Arcas	-	EXAMETNET W 102	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W190	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W191	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W192	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W193	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W194	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W195	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W196	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W197	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W198	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W199	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W200	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W201	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W202	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W203	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W204	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W205	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W206	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W207	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W208	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W209	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W210	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W211	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W212	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W213	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W214	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W215	2440129.50	1968 Oct	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W348	2440132.24	1968 Oct 2 1745	Arcas	-	EXAMETNET W 103	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W287	2440139.27	1968 Oct 9 1829	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	JAtSci33,695	-	-
1968-W296	2440140.27	1968 Oct 10 1835	Arcas	-	EXAMETNET C47	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1968-W227	2440140.29	1968 Oct 10 1900:00	Arcas	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	WDCRF	-	-
1968-W309	2440146.13	1968 Oct 16 1514	Arcas	-	EXAMETNET N52	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W350	2440146.31	1968 Oct 16 1920	Arcas	-	EXAMETNET W 105	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W292	2440153.25	1968 Oct 23 1800	Arcas	-	PEPP meteo	0.000	LARCN	SS	-	LARC/	Meteo	TM-X-1924	-	-
1968-W351	2440153.26	1968 Oct 23 1810	Arcas	-	EXAMETNET W 106	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W352	2440160.20	1968 Oct 30 1652	Arcas	-	EXAMETNET W 107	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W231	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W232	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W233	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W234	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W235	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W236	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W237	2440160.50	1968 Nov	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W310	2440174.15	1968 Nov 13 1530	Arcas	-	EXAMETNET N53	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W297	2440174.30	1968 Nov 13 1910	Arcas	-	EXAMETNET C48	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1968-W250	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W251	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W252	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W253	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W254	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W255	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W256	2440190.50	1968 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W265	2440197.55	1968 Dec 7 0105	Arcas	-	PSU-NO-2	0.000	ERDA	SS	-	PSU/Hale	Aeron	SR10,208	-	-
1968-W353	2440202.37	1968 Dec 11 2059	Arcas	-	EXAMETNET W 113	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W266	2440203.55	1968 Dec 13 0105	Arcas	-	PSU-NO-3	0.000	ERDA	SS	-	PSU/Hale	Aeron	SR10,208	-	-
1968-W267	2440204.14	1968 Dec 13 1515	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-W268	2440204.22	1968 Dec 13 1720	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-W269	2440204.73	1968 Dec 14 0527	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-W270	2440204.80	1968 Dec 14 0715	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-Y103	2440204.89	1968 Dec 14 0919	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-Y104	2440204.92	1968 Dec 14 1000	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-W271	2440204.98	1968 Dec 14 1127	Arcas	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1968-W288	2440208.55	1968 Dec 18 0105	Arcas	-	PSU-NO-4	0.000	ERDA	SS	-	PSU/Hale	Aeron	SR10,208	-	-
1968-W258	2440209.12	1968 Dec 18 1500	Arcas	-	EXAMETNET N54	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W257	2440209.25	1968 Dec 18 1802	Arcas	-	EXAMETNET C50	0.000	CONAE/GSFC	SU	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1969-W01	2440221.50	1969 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W02	2440221.50	1969 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W03	2440221.50	1969 Jan	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W29	2440229.25	1969 Jan 7 1755:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W37	2440230.25	1969 Jan 8 1807:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W40	2440231.24	1969 Jan 9 1747:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W105	2440242.28	1969 Jan 20 1841:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-Y34	2440242.29	1969 Jan 20 1900	Arcas	?	-	0.000	MRN	SS	-	USAF/	Aeron	WDCRF	-	-
1969-W107	2440242.32	1969 Jan 20 1936:59	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W109	2440242.35	1969 Jan 20 2026:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W112	2440243.21	1969 Jan 21 1700	Arcas	?	-	0.000	AWS	SS	-	USAF/	Aeron	WDCRF	-	-
1969-Y35	2440243.72	1969 Jan 22 0515	Arcas	?	-	0.000	AWS	SS	-	USAF/	Aeron	WDCRF	-	-
1969-W118	2440243.96	1969 Jan 22 1100	Arcas	?	-	0.000	AWS	SS	-	USAF/	Aeron	WDCRF	-	-
1969-W119	2440243.97	1969 Jan 22 1110:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-Y37	2440244.23	1969 Jan 22 1730	Arcas	?	-	0.000	AWS	SS	-	USAF/	Aeron	WDCRF	-	-
1969-W129	2440244.46	1969 Jan 22 2300:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-Y40	2440244.71	1969 Jan 23 0503:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-Y45	2440245.21	1969 Jan 23 1700:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-Y49	2440246.21	1969 Jan 24 1701:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-Y58	2440249.17	1969 Jan 27 1600:00	Arcas	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1969-W174	2440252.37	1969 Jan 30 2051:00	Arcas	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W183	2440253.26	1969 Jan 31 1821	Arcas	-	NASA 15.61DM	0.000	WFF/NOTS	SS	-	NOTS/Krueger	Plasma	WDCRF	-	-
1969-W217	2440259.25	1969 Feb 6 1800	Arcas	-	NASA 15.62DM	0.000	WFF/NOTS	SS	-	NOTS/Krueger	Plasma	WDCRF	-	-
1969-W289	2440272.51	1969 Feb 20 0014:59	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W296	2440274.24	1969 Feb 21 1749:59	Arcas	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W334	2440284.69	1969 Mar 4 0437:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W369	2440292.31	1969 Mar 11 1930:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W384	2440293.69	1969 Mar 13 0430:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W472	2440311.50	1969 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W473	2440311.50	1969 Apr	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W533	2440323.64	1969 Apr 12 0315:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W582	2440333.61	1969 Apr 22 0238:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W640	2440344.18	1969 May 2 1618:59	Arcas	?	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W826	2440385.27	1969 Jun 12 1832	Arcas	-	NASA 12.12GM	0.000	WFF	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-W1747	2440391.29	1969 Jun 18 1900	Arcas	-	-	0.000	LARCN	SS	-	LARC/	Meteo	TN-D-5796	-	-
1969-W1046	2440439.67	1969 Aug 6 0359	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Test	FC	-	-
1969-W1249	2440481.22	1969 Sep 16 1715	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Test	FC	-	-
1969-W1278	2440486.50	1969 Sep 22	Arcas	-	-	0.000	AFCRL?	SS	-	PSU/Hale	Aeron	WDCRF	-	-
1969-W1479	2440528.73	1969 Nov 3 0535	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	-	-
1969-W1480	2440528.79	1969 Nov 3 0700	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1481	2440529.02	1969 Nov 3 1228	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1484	2440529.09	1969 Nov 3 1405	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1485	2440529.19	1969 Nov 3 1629	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-A186	2440530.32	1969 Nov 4 1943	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1496	2440530.43	1969 Nov 4 2220	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1497	2440530.48	1969 Nov 4 2325	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1498	2440530.50	1969 Nov 4 2357	Arcas	-	-	0.000	AFCRL	SS	-	PSU/Hale	Aeron	FC	WDCRF	-
1969-W1600	2440555.50	1969 Dec	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W1631	2440561.50	1969 Dec 06	Arcas	-	-	0.000	WSMR	SU	-	PSU/Hale	Aeron	WDCRF	-	-
1969-W1656	2440567.50	1969 Dec 12	Arcas	-	-	0.000	WSMR	SU	-	PSU/Hale	Aeron	WDCRF	-	-
1969-W1699	2440574.50	1969 Dec 19	Arcas	-	-	0.000	WSMR	SU	-	PSU/Hale	Aeron	WDCRF	-	-
1969-W1710	2440578.24	1969 Dec 22 1748:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W1721	2440580.24	1969 Dec 24 1748:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1969-W1741	2440587.28	1969 Dec 31 1841:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1970-W92	2440601.27	1970 Jan 14 1826:59	Arcas	-	-	0.000	WFF	SS	-	GSFC/	Meteo	DSI-5850	WI-PR70-1	-
1970-W99	2440603.20	1970 Jan 16 1653	Arcas	-	NASA 15.56UE	0.000	WFF	SS	-	GSFC/Krueger	Plasma	USSOCSPAR71	WDCRF	-
1970-W133	2440608.25	1970 Jan 21 1800:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	JAtSci33,695	-
1970-W289	2440641.81	1970 Feb 24 0720	Arcas	-	NASA 15.72UI	0.000	AWS	SS	-	HOUS/Sheldon	Ionos	FC	WDCRF	-
1970-W321	2440645.50	1970 Mar	Arcas	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1970-W325	2440647.24	1970 Mar 1 1752	Arcas	-	NASA 15.73UI	0.000	WFF	SS	-	HOUS/Schmerling	Ionos	USSOCSPAR71	WDCRF	-
1970-W349	2440652.28	1970 Mar 6 1839	Arcas	-	NASA 15.66UE	0.000	WFF	SS	-	LARC/Henry	Plasma	AIAA70-1395	-	-
1970-W356	2440653.10	1970 Mar 7 1430	Arcas	-	NASA 15.68NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	WDCRF	-	-
1970-W357	2440653.17	1970 Mar 7 1600	Arcas	-	NASA 15.69NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	WDCRF	-	-
1970-W359	2440653.24	1970 Mar 7 1745	Arcas	-	NASA 15.70NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	WDCRF	-	-
1970-W360	2440653.29	1970 Mar 7 1857	Arcas	-	NASA 15.71NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	WDCRF	-	-
1970-W361	2440653.31	1970 Mar 7 1925	Arcas	-	NASA 15.67NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	WDCRF	-	-
1970-W362	2440653.33	1970 Mar 07 2000:00	Arcas	-	NASA 15.76NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	AIAA70-1395	-	-
1970-W363	2440654.24	1970 Mar 8 1745	Arcas	-	NASA 15.78NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	AIAA70-1395	-	-
1970-W364	2440654.25	1970 Mar 8 1806	Arcas	-	NASA 15.77NM	0.000	WFF	SS	-	LARC/Henry	Aeronomy	AIAA70-1395	-	-
1970-W02	2440674.94	1970 Mar 29 1034:12	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL-72-0005	Serra	-
1970-W478	2440678.56	1970 Apr 2 0122:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1970-W552	2440692.78	1970 Apr 16 0639	Arcas	-	NASA 15.74UI	0.000	AWS	SS	-	HOUS/Sheldon	Ionos	FC	WDCRF	-
1970-W562	2440694.28	1970 Apr 17 1845:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1970-W03	2440696.92	1970 Apr 20 1001	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	Pitfield	-	-
1970-W576	2440698.89	1970 Apr 22 0920:00	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1970-W04	2440705.94	1970 Apr 29 1036	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	Pitfield	-	-
1970-W05	2440706.02	1970 Apr 29 1234	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	Pitfield	-	-
1970-W01	2440706.08	1970 Apr 29 1358	Arcas	-	PCA	0.000	AFCRL	SF	U	AFCRL/	Ionos	Pitfield	AFCRL-72-0005	-
1970-W614	2440706.21	1970 Apr 29 1656:59	Arcas	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1970-W694	2440721.31	1970 May 14 1923	Arcas	-	NASA 15.57UE	0.000	GSFC	SS	-	GSFC/Krueger	Plasma	USCOSPAR71	WDCRF	-
1970-W752	2440731.79	1970 May 25 0700:00	Arcas	-	ARCAS	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W760	2440732.30	1970 May 25 1914:00	Arcas	-	-	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1970-W764	2440732.42	1970 May 25 2204:00	Arcas	-	ARCAS	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1970-W765	2440732.49	1970 May 25 2345:00	Arcas	-	ARCAS	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1970-W768	2440732.61	1970 May 26 0240:00	Arcas	-	ARCAS	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1970-W770	2440732.69	1970 May 26 0440:00	Arcas	-	ARCAS	0.000	WSMR	SS	-	WSMR/?	Aeron	WDCRF	-	-
1970-W902	2440756.39	1970 Jun 18 2126	Arcas	-	NASA 15.79GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1970-A152	2440803.15	1970 Aug 4 1540	Arcas	-	-	0.000	WFF	SS	-	WFF/	Bio	PostalCover	WI-PR70-10	-
1970-A153	2440816.50	1970 Aug 18	Arcas	-	-	0.000	WFF	SS	-	WFF/	Bio	FDC/Ulrich	WI-PR70-10	-
1970-A154	2440816.50	1970 Aug 18	Arcas	-	-	0.000	WFF	SS	-	WFF/	Bio	FDC/Ulrich	WI-PR70-10	-
1970-A155	2440816.50	1970 Aug 18	Arcas	-	-	0.000	WFF	SS	-	WFF/	Bio	FDC/Ulrich	WI-PR70-10	-
1970-A156	2440798.50	1970 Aug	Arcas	-	-	0.000	WFF	SS	-	WFF/	Bio	WI-PR70-10	-	-
1970-W1373	2440846.50	1970 Sep 17	Arcas	-	-	0.000	WFF	SS	-	NASA/	Aeron	SP-4015	-	-
1970-W1374	2440846.50	1970 Sep 17	Arcas	-	-	0.000	WFF	SS	-	NASA/	Aeron	SP-4015	-	-
1970-W1392	2440850.50	1970 Sep 21	Arcas	-	-	0.000	WFF	SS	-	NASA/	Aeron	SP-4015	-	-
1970-W1498	2440870.25	1970 Oct 10 1800	Arcas	-	NASA 15.80GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	SP-4015	-
1970-Y258	2440873.64	1970 Oct 14 0320:00	Arcas	-	-	0.000	WSMR	SU	-	PSU/Hale	Aeron	WDCRF	-	-
1970-W1538	2440877.25	1970 Oct 17 1800	Arcas	-	NASA 15.81GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	SP-4015	-
1970-W1644	2440897.20	1970 Nov 6 1645	Arcas	-	NASA 15.82GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1970-W1669	2440904.20	1970 Nov 13 1645	Arcas	-	NASA 15.83GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1971-W28	2440960.31	1971 Jan 8 1930:00	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	DSI-5850	SR13,197	-
1971-W30	2440960.45	1971 Jan 8 2246:59	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	DSI-5850	SR13,197	-
1971-W42	2440964.25	1971 Jan 12 1800:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	-	-
1971-W124	2440974.33	1971 Jan 22 2000:00	Arcas	?	WSMR/PSU	0.000	WSMR	SU	-	PSU/WSMR/Hale	Ionos	WDCRF	SR13,471	-
1971-W125	2440974.46	1971 Jan 22 2304:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	-	-
1971-W147	2440978.40	1971 Jan 26 2130:00	Arcas	?	WSMR/PSU	0.000	WSMR	SU	-	PSU/WSMR/Hale	Ionos	WDCRF	SR13,471	-
1971-W187	2440984.30	1971 Feb 01 1915:00	Arcas	?	WSMR/PSU	0.000	WSMR	SU	-	PSU/WSMR/Hale	Ionos	WDCRF	SR13,471	-
1971-W305	2441007.42	1971 Feb 24 2158	Arcas	-	NASA 15.84GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1971-W333	2441014.42	1971 Mar 3 2158	Arcas	-	NASA 15.85GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4016	-
1971-W346	2441016.42	1971 Mar 5 2207	Arcas	-	NASA 15.86GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	-	-
1971-W367	2441022.60	1971 Mar 12 0230:00	Arcas	-	-	0.000	MRN	SS	-	WSMR/	Meteo	DSI-5850	SR13,197	-
1971-W396	2441030.74	1971 Mar 20 0543:00	Arcas	?	[= Nike?]	0.000	AWS	SU	-	UNK/	Plasma/Fields	WDCRF	-	-
1971-W397	2441030.74	1971 Mar 20 0546:00	Arcas	?	[= Nike?]	0.000	AWS	SU	-	UNK/	Plasma/Fields	WDCRF	-	-
1971-S195	2441033.19	1971 Mar 22 1640	Super Arcas	-	PCA imped probe	0.000	AFCRL	SS	-	USU/AFCRL/Burt,Grieder	Ionos	SR13,575	-	-
1971-W418	2441036.30	1971 Mar 25 1915:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	-	-
1971-S627	2441047.69	1971 Apr 6 0430?	Super Arcas	-	PCA?	0.000	AFCRL	SS	-	USU/AFCRL/Burt,Grieder	Ionos	AFCRL2	-	-
1971-S26	2441048.22	1971 Apr 6 1719	Super Arcas	-	PCA scintillator	0.000	AFCRL	SS	-	USU/AFCRL/Burt,Grieder	Ionos	SR13,575	-	-
1971-S229	2441048.25	1971 Apr 6 1800	Super Arcas	-	PCA imped. probe	0.000	AFCRL	SS	-	USU/AFCRL/Burt,Grieder	Ionos	WDC	SR13,575	-
1971-S628	2441112.00	1971 Jun 9 1205:00	Super Arcas	-	Mesospheric probe	0.000	AFCRL	SS	-	AFCRL/USU/Baker	Aeron	AFCRL72-0472	AFCRL2	-
1971-W802	2441112.13	1971 Jun 09 1509:00	Arcas	?	WSMR/PSU	0.000	WSMR	SS	-	PSU/WSMR/Hale	Ionos	WDCRF	SR13,471	-
1971-W842	2441123.14	1971 Jun 20 1527:00	Arcas	-	-	0.000	ARC	SS	-	ARC/Seiff	Aeron	WDCRF	Icarus18,525	-
1971-W844	2441123.46	1971 Jun 20 2259:00	Arcas	-	-	0.000	ARC	SS	-	ARC/Seiff	Aeron	WDCRF	Icarus18,525	-
1971-W1005	2441161.09	1971 Jul 28 1405:00	Arcas	?	WSMR/PSU	0.000	WSMR	SS	-	PSU/WSMR/Hale	Aeron	DSI-5850	SR13,471	-
1971-W1043	2441167.30	1971 Aug 3 1916	Arcas	-	NASA 15.46UI	0.000	GSFC	SS	-	PSU/Kendall	Ionos	WDCRF	-	-
1971-W1071	2441171.33	1971 Aug 7 1949	Arcas	-	NASA 15.87GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4016	-
1971-S230	2441048.69	1971 Apr 7 0430	Super Arcas	-	PCA imped. probe	0.000	AFCRL	SS	-	USU/AFCRL/Burt,Grieder	Ionos	SR13,575	-	-
1971-W1077	2441173.34	1971 Aug 9 2012	Arcas	-	NASA 15.88GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4016	-
1971-W1107	2441178.33	1971 Aug 14 1954	Arcas	-	NASA 15.90GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4016	-
1971-W1271	2441212.27	1971 Sep 17 1830:00	Arcas	-	-	0.000	MRN	SS	-	WSMR/Olson	Meteo	DSI-5850	AD-A-005589	-
1971-S24	2441220.08	1971 Sep 25 1400?	Super Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1971-S25	2441249.10	1971 Oct 24 1430?	Super Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1971-W1451	2441258.38	1971 Nov 2 2100:00	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Test/Aeron	WDCRF	AD-A-05589	-
1971-S631	2441259.71	1971 Nov 4 0502?	Arcas	-	SID	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-W25	2441323.28	1972 Jan 6 1837	Super Arcas	-	NASA 15.92UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	WDCRF	SR13,471	-
1972-W95	2441336.25	1972 Jan 19 1800:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	IJRadioSP3,62	-
1972-W97	2441336.31	1972 Jan 19 1930:00	Arcas	?	-	0.000	WSMR	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1972-Y44	2441348.25	1972 Jan 31 1807	Super Arcas	-	NASA 15.93UI	0.000	GSFC	SS	-	PSU/Hale	Ionospheric	WDCRF	-	-
1972-W165	2441349.25	1972 Feb 01 1800:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	IJRadioSP3,62	-
1972-W168	2441349.29	1972 Feb 1 1900	Arcas	?	-	0.000	WSMR	SU	-	WSMR/	Ionos	WDCRF	-	-
1972-W229	2441359.25	1972 Feb 11 1800:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/Randhawa	Aeron	WDCRF	IJRadioSP3,62	-
1972-W327	2441383.25	1972 Mar 6 1800:00	Arcas	-	-	0.000	MRN	SS	-	WSMR/Olson	Test/Aeron	WDCRF	AD-A-05589	-
1972-W366	2441392.26	1972 Mar 15 1808	Super Arcas	-	-	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	FDC/Ulrich	-
1972-S475	2441392.31	1972 Mar 15 1926	Super Arcas	-	WMO	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	-	-
1972-S476	2441392.53	1972 Mar 16 0039	Super Arcas	-	WMO	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	-	-
1972-S477	2441397.27	1972 Mar 20 1827	Super Arcas	-	WMO	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	-	-
1972-S478	2441397.36	1972 Mar 20 2045	Super Arcas	-	WMO	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	-	-
1972-S479	2441397.57	1972 Mar 21 0146	Super Arcas	-	WMO	0.000	CNES	SS	-	CNES/	Aeron	FDC/Ulrich	-	-
1972-S14	2441421.60	1972 Apr 14 0230?	Super Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-S15	2441422.72	1972 Apr 15 0516?	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-W595	2441442.21	1972 May 4 1700	Arcas	-	NASA 15.91GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4017	-
1972-W653	2441454.13	1972 May 16 1511	Arcas	-	NASA 15.99GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4017	-
1972-W685	2441461.13	1972 May 23 1502	Arcas	-	NASA 15.100GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	SP-4017	-
1972-W842	2441497.27	1972 Jun 28 1825	Arcas	-	L1-5480	0.000	LARCN	SS	-	LARC/	Test	CR-112251	-	-
1972-W847	2441498.21	1972 Jun 29 1708	Arcas	-	L1-5481	0.000	LARCN	SS	-	LARC/	Test	CR-112251	-	-
1972-W848	2441498.28	1972 Jun 29 1841	Arcas	-	L1-5482	0.000	LARCN	SS	-	LARC/	Test	CR-112251	-	-
1972-W851	2441499.13	1972 Jun 30 1508	Arcas	-	L1-5483	0.000	LARCN	SS	-	LARC/	Test	CR-112251	-	-
1972-M24	2441510.14	1972 Jul 11 1523	Arcas	-	T1-5999	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1972-W01	2441534.21	1972 Aug 4 1700?	Super Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-W02	2441535.38	1972 Aug 5 2102?	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-W03	2441535.43	1972 Aug 5 2224?	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-W04	2441538.42	1972 Aug 8 2200?	Arcas	-	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1972-M16	2441593.50	1972 Oct 3	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1972-W1255	2441602.17	1972 Oct 11 1559:59	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Test/Aeron	WDCRF	AD-A-05589	-
1972-W1335	2441622.79	1972 Nov 1 0657	Super Arcas	-	NASA 15.94UI	0.000	WFF	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1972-W1371	2441630.18	1972 Nov 8 1614:59	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Meteo	DSI-5850	AD-A-05589	-
1972-W1391	2441632.25	1972 Nov 10 1800:00	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Meteo	DSI-5850	AD-A-05589	-
1972-M14	2441638.50	1972 Nov 17	Super Arcas	-	-	0.000	CNES	SS	-	CNES/	Meteo	FDC/Ulrich	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y283	2441657.26	1972 Dec 5 1814	Super Arcas	-	NASA 15.95UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1973-Y31	2441699.25	1973 Jan 16 1804	Super Arcas	-	NASA 15.103UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1973-W111	2441702.21	1973 Jan 19 1658:00	Arcas	-	-	0.000	WSMR	SU	-	WSMR/	Aeron	WDCRF	-	-
1973-W1653	2441715.50	1973 Feb 2	Arcas	-	USA Ozone	0.000	WSMR	SS	-	WSMR/Olson	Aeron/Test	AD-A-005589	-	-
1973-W172	2441715.76	1973 Feb 2 0615	Super Arcas	-	NASA 15.101UI	0.000	GSFC	SS	-	HOUS/Sheldon	Ionos	WDCRF	SR14,353	-
1973-Y60	2441715.77	1973 Feb 2 0623	Super Arcas	-	NASA 15.102UI	0.000	GSFC	SS	-	HOUS/Sheldon	Ionos	WDCRF	-	-
1973-W229	2441727.15	1973 Feb 13 1530	Arcas	-	NASA 15.107GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1973-W260	2441734.14	1973 Feb 20 1525	Arcas	-	NASA 15.108GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1973-M37	2441762.50	1973 Mar 21	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M35	2441769.50	1973 Mar 28	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M43	2441772.28	1973 Mar 30 1845	Arcas	-	T1-6446	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-M36	2441776.50	1973 Apr 4	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M44	2441782.59	1973 Apr 10 0215	Arcas	-	T1-6428	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-M25	2441790.50	1973 Apr 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M26	2441811.50	1973 May 9	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M15	2441832.50	1973 May 30	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	Envelope	-	-
1973-W736	2441839.13	1973 Jun 5 1501	Arcas	-	NASA 15.109GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1973-M27	2441840.50	1973 Jun 7	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-W879	2441875.50	1973 Jul 12	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Test/Aeron	WDCRF	AD-A-05589	-
1973-W895	2441880.50	1973 Jul 17	Arcas	-	-	0.000	WSMR	SS	-	WSMR/Olson	Test/Aeron	WDCRF	AD-A-05589	-
1973-M46	2441883.26	1973 Jul 19 1819	Super Arcas	-	L1-6574	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-W1036	2441911.20	1973 Aug 16 1650	Arcas	-	NASA 15.111GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1973-W1039	2441911.26	1973 Aug 16 1810	Arcas	-	NASA 15.112GM	0.000	GSFC	SS	-	GSFC/Krueger	Aeronomy	WDCRF	-	-
1973-W1073	2441919.12	1973 Aug 24 1452	Arcas	-	T1-6723	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC/Ulrich	-
1973-M49	2441919.16	1973 Aug 24 1555	Super Arcas	-	T1-6777	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-M47	2441926.21	1973 Aug 31 1707	Arcas	-	T1-6731	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-W1120	2441930.26	1973 Sep 4 1809:00	Arcas	-	T1-6720	0.000	GSFC	SS	-	GSFC/?	Meteo	DSI-5850	FDC/Ulrich	-
1973-M28	2441935.50	1973 Sep 10	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M29	2441937.50	1973 Sep 12	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-A54	2441945.14	1973 Sep 19 1519	Arcas	-	NASA 15.113GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	-	-
1973-M50	2441945.28	1973 Sep 19 1839	Super Arcas	-	T1-6776	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-W1601	2441946.08	1973 Sep 20 1354	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1602	2441946.65	1973 Sep 21 0332	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1603	2441947.69	1973 Sep 22 0437	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1604	2441950.22	1973 Sep 24 1715	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1605	2441950.54	1973 Sep 25 0056	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1606	2441951.28	1973 Sep 25 1840	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1607	2441951.55	1973 Sep 26 0106	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1608	2441952.11	1973 Sep 26 1442	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1609	2441953.10	1973 Sep 27 1426	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1610	2441953.63	1973 Sep 28 0311	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1611	2441954.65	1973 Sep 29 0329	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-W1612	2441956.67	1973 Oct 1 0408	Super Arcas	-	CIMO	0.000	CNES	SS	-	CNES/	Meteo	SR15,143	-	-
1973-A80	2441959.56	1973 Oct 4 0120	Super Arcas	-	AFCRL Arcas 72-2	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL2	-	-
1973-S453	2441959.76	1973 Oct 4 0610	Super Arcas	-	AFCRL Arcas 72-1	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL2	-	-
1973-M31	2441965.50	1973 Oct 10	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-M30	2441966.14	1973 Oct 10 1515	Arcas	-	L1-6576	0.000	GSFC	SS	-	GSFC/	Meteo	FDC/Ulrich	-	-
1973-M51	2441966.25	1973 Oct 10 1804	Arcas	-	L1-6577	0.000	GSFC	SS	-	GSFC/?	Meteo?	FDC/Ulrich	-	-
1973-A62	2441975.22	1973 Oct 19 1715	Arcas	-	NASA 15.114GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	-	-
1973-M32	2441986.50	1973 Oct 31	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-S09	2442009.50	1973 Nov 23	Super Arcas	-	Polar Airglow	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL2	-	-
1973-W1460	2442010.14	1973 Nov 23 1520	Arcas	-	NASA 15.115GM	0.000	GSFC	SS	-	GSFC/Kreuger	Aeronomy	WDCRF	-	-
1973-M33	2442015.50	1973 Nov 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1973-W1500	2442021.15	1973 Dec 4 1533:00	Arcas	-	NASA L1-6963	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC	-
1973-M48	2442021.27	1973 Dec 4 1835	Arcas	-	NASA L1-6964	0.000	GSFC	SS	-	GSFC/?	Aeron	FDC/Ulrich	-	-
1973-M34	2442028.50	1973 Dec 12	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-S30	2442047.50	1974	Super Arcas	?	PCA	0.000	AFCRL	SS	-	AFCRL/	Ionos	Serra	-	-
1974-M07	2442056.50	1974 Jan 9	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-W44	2442058.50	1974 Jan 11	Arcas	-	PSU Gerdien	0.000	WSMR	SS	-	PSU/Farrokh	Ionos	WDCRF	AD-A-05589	-
1974-Y20	2442064.26	1974 Jan 16 1813	Super Arcas	-	NASA 15.105UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1974-W149	2442079.12	1974 Jan 31 1500	Arcas	-	NASA 15.51UE	0.000	GSFC	SS	-	GSFC/Krueger	Plasma	WDCRF	-	-
1974-M08	2442082.50	1974 Feb 4	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M09	2442092.50	1974 Feb 14	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M10	2442100.50	1974 Feb 22	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M11	2442103.50	1974 Feb 25	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M12	2442105.50	1974 Feb 27	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M13	2442119.50	1974 Mar 13	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M40	2442122.30	1974 Mar 15 1917	Super Arcas	-	NASA G1-7207	0.000	GSFC	SS	-	GSFC/?	Meteo	FDC/Ulrich	-	-
1974-A14	2442128.00	1974 Mar 21 1200	Super Arcas	-	NASA 15.123GM	0.000	GSFC	SF	U	GSFC/Krueger	Aeronomy	Grahn-pc	WDCRF	-
1974-Y121	2442129.11	1974 Mar 22 1445	Super Arcas	-	NASA 15.124GM	0.000	GSFC	SF	U	GSFC/Krueger	Aeronomy	Grahn-pc	WDCRF	No nose sep
1974-M14	2442133.50	1974 Mar 27	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M20	2442154.50	1974 Apr 17	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M21	2442169.50	1974 May 2	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M22	2442182.50	1974 May 15	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M23	2442196.50	1974 May 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-W846	2442228.35	1974 Jun 29 2025:00	Super Arcas	-	E 1-7323	0.000	WFF	SU	-	WSMR/Randhawa	Aeron	WDCRF	-	-
1974-Y226	2442228.38	1974 Jun 29 2110	Super Arcas	-	NASA 15.104UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1974-W862	2442228.64	1974 Jun 30 0315	Super Arcas	-	NASA 15.126UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	FDC	SR17,191 (Jul1)	-
1974-Y228	2442228.94	1974 Jun 30 1035:00	Super Arcas	-	E 1-7324	0.000	WFF	SU	-	WSMR/Randhawa	Aeron	WDCRF	-	-
1974-Y227	2442229.50	1974 Jul 1 0005	Super Arcas	-	NASA 15.125UI	0.000	GSFC	SS	-	PSU/Hale	Ionos	SR17,191	-	-
1974-W961	2442254.25	1974 Jul 25 1800	Super Arcas	-	NASA 15.106UI	0.000	GSFC	SS	-	HOUS/Sheldon	Ionos	WDCRF	-	-
1974-M15	2442294.50	1974 Sep 4	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M24	2442301.50	1974 Sep 11	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M25	2442308.50	1974 Sep 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M16	2442322.50	1974 Oct 2	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M17	2442336.50	1974 Oct 16	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-M18	2442350.50	1974 Oct 30	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M19	2442364.50	1974 Nov 13	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M26	2442378.50	1974 Nov 27	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M27	2442380.50	1974 Nov 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-M28	2442385.50	1974 Dec 4	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1974-S441	2442396.67	1974 Dec 15 0402	Super Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	Pittfield	-	-
1974-M29	2442399.50	1974 Dec 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M03	2442421.50	1975 Jan 9	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y29	2442438.60	1975 Jan 26 0226	Super Arcas	-	NASA 15.129UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1975-Y30	2442438.61	1975 Jan 26 0236	Super Arcas	-	NASA 15.130UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1975-M08	2442442.50	1975 Jan 30	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y40	2442446.68	1975 Feb 3 0415	Super Arcas	-	NASA 15.138UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1975-M09	2442456.50	1975 Feb 13	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y48	2442458.56	1975 Feb 15 0125	Super Arcas	-	NASA 15.131UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1975-Y49	2442458.57	1975 Feb 15 0136	Super Arcas	-	NASA 15.132UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1975-M04	2442469.50	1975 Feb 26	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M10	2442483.50	1975 Mar 12	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-W310	2442485.18	1975 Mar 13 1615	Super Arcas	-	NASA 15.137GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-M11	2442497.50	1975 Mar 26	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M12	2442518.50	1975 Apr 16	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M13	2442531.50	1975 Apr 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M14	2442546.50	1975 May 14	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y160	2442556.55	1975 May 24 0105	Super Arcas	-	NASA 15.139UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR17,191	-
1975-W606	2442556.58	1975 May 24 0152	Super Arcas	-	NASA 15.133GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-Y161	2442556.80	1975 May 24 0705	Super Arcas	-	NASA 15.140UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR17,191	-
1975-Y162	2442556.82	1975 May 24 0744	Super Arcas	-	NASA 15.134GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-W607	2442556.86	1975 May 24 0842	Super Arcas	-	NASA 15.135GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-M15	2442560.50	1975 May 28	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y171	2442561.31	1975 May 28 1930	Super Arcas	-	NASA 15.142UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR17,191	-
1975-Y172	2442561.39	1975 May 28 2116	Super Arcas	-	NASA 15.141UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR17,191	-
1975-M05	2442574.50	1975 Jun 11	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M16	2442581.50	1975 Jun 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-Y224	2442609.05	1975 Jul 15 1318	Arcas	-	NASA 15.48WT	0.000	GSFC	SS	-	WFF/Silbert	Fields	WDCRF	SR17,199	-
1975-Y233	2442617.74	1975 Jul 24 0547	Super Arcas	-	NASA 15.143GM	0.000	GSFC	SS	-	GSFC/Randhawa	Aeronomy	SR19,111	-	-
1975-Y234	2442623.19	1975 Jul 29 1634	Super Arcas	-	NASA 15.144GM	0.000	GSFC	SS	-	GSFC/Randhawa	Aeronomy	WDCRF	-	-
1975-W848	2442623.31	1975 Jul 29 1920	Super Arcas	-	NASA 15.136GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-M19	2442664.50	1975 Sep 9	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M17	2442672.50	1975 Sep 17	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-W1078	2442682.04	1975 Sep 26 1259:59	Arcas	?	Gerdien	0.000	MRN	SS	-	UTEP/WSMR/Mitchell	Meteo	DSI-5850	SR17,199	-
1975-M06	2442684.50	1975 Sep 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-M18	2442714.50	1975 Oct 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-W1389	2442762.68	1975 Dec 16 0419	Super Arcas	-	NASA 15.110GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-Y372	2442764.59	1975 Dec 18 0210	Super Arcas	-	NASA 15.145GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-M07	2442764.50	1975 Dec 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1975-W1414	2442768.59	1975 Dec 22 0213	Super Arcas	-	NASA 15.146GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1976-M14	2442798.50	1976 Jan 21	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M15	2442805.50	1976 Jan 28	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-Y39	2442808.14	1976 Jan 30 1525	Super Arcas	-	NASA 15.49UE	0.000	GSFC	SS	-	UTD/Mitchell	Plasma	WDCRF	-	FDC/2025Z
1976-M10	2442826.50	1976 Feb 18	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-Y100	2442835.67	1976 Feb 27 0405	Super Arcas	-	NASA 15.147GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1976-Y108	2442841.72	1976 Mar 4 0522	Super Arcas	-	NASA 15.148GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1976-M16	2442854.50	1976 Mar 17	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-W493	2442868.78	1976 Mar 31 0638	Super Arcas	-	NASA 15.128UE	0.000	GSFC	SS	-	UTD/HOUS/Schm,Shel.	Plasma	FC	SP-4021	-
1976-M17	2442869.50	1976 Apr 1	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M11	2442882.50	1976 Apr 14	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M18	2442897.50	1976 Apr 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M19	2442910.50	1976 May 12	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M25	2442931.50	1976 Jun 2	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M13	2442938.50	1976 Jun 9	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M20	2443036.50	1976 Sep 15	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-W1332	2443043.09	1976 Sep 21 1403:00	Super Arcas	-	TM1-8169	0.000	GSFC	SU	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1976-Y432	2443045.04	1976 Sep 23 1255:00	Super Arcas	-	TM1-8170	0.000	GSFC	SU	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1976-Y439	2443046.83	1976 Sep 25 0756:00	Super Arcas	-	TM1-8171	0.000	GSFC	SU	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1976-M21	2443050.50	1976 Sep 29	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M22	2443064.50	1976 Oct 13	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1976-M23	2443113.50	1976 Dec 1	Super Arcas	-	-	0.000	CNES	SS	-	CNES/?	Meteo	FDC/Ulrich	-	-
1977-Y12	2443152.35	1977 Jan 8 2021	Super Arcas	-	NASA 15.152UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1977-Y61	2443186.37	1977 Feb 11 2050:45	Super Arcas	-	NASA 15.154UE	0.000	GSFC	SS	-	HOUS/Sheldon	Auroral	Sven	-	-
1977-Y63	2443190.28	1977 Feb 15 1848:20	Super Arcas	-	NASA 15.155UE	0.000	GSFC	SS	-	HOUS/Sheldon	Auroral	WISR	-	-
1977-Y271	2443347.11	1977 Jul 22 1442:00	Super Arcas	-	T 1-9105	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1977-W1231	2443348.67	1977 Jul 24 0402:00	Super Arcas	-	T 1-9103	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1977-W1232	2443348.68	1977 Jul 24 0415:00	Super Arcas	-	T 1-9104	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1978-Y01	2443512.99	1978 Jan 4 1140	Super Arcas	-	NASA 15.162UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	RevGeo26,519	SR19,347	-
1978-Y02	2443512.50	1978 Jan 4	Super Arcas	-	NASA 15.161UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WISR	SP-4023	-
1978-A01	2443512.50	1978 Jan 4	Super Arcas	-	NASA 15.160UE	0.000	GSFC	SF	U	HOUS/Sheldon	Plasma	WISR	SP-4023	-
1978-Y18	2443520.91	1978 Jan 12 0957:30	Super Arcas	-	NASA 15.163UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	RevGeo26,519	SP-4023	-
1978-W335	2443588.50	1978 Mar 21	Super Arcas	-	NASA 15.165GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W360	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.167GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W361	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.169GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W362	2443594.50	1978 Mar 27	Super Arcas	-	NASA 15.170UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	SP-4023	-
1978-W366	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.164GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W367	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.166GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W368	2443596.50	1978 Mar 29	Super Arcas	-	NASA 15.168GA	0.000	GSFC	SS	-	GSFC/Goldberg	Aeronomy	WISR	SP-4023	-
1978-W376	2443597.50	1978 Mar 30	Super Arcas	-	NASA 15.171UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1978-W841	2443735.50	1978 Aug 15	Super Arcas	-	NASA 15.158UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron?	WISR	-	-
1978-W890	2443748.50	1978 Aug 28	Super Arcas	-	NASA 15.157UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron?	WISR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W897	2443750.32	1978 Aug 29 1937:59	Super Arcas	-	-	0.000	GSFC	SS	-	UMI/Horvath	Aeron/Test	DSI-5850	WI-PR78-13	-
1978-Y443	2443857.50	1978 Dec 15	Super Arcas	-	NASA 15.197GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WISR	-	-
1978-W1272	2443857.74	1978 Dec 15 0541	Super Arcas	-	NASA 15.149GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y52	2443900.50	1979 Jan 27	Super Arcas	-	NASA 15.198GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WISR	-	-
1979-W153	2443901.34	1979 Jan 27 2005	Super Arcas	-	NASA 15.150GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y57	2443901.50	1979 Jan 28	Super Arcas	-	NASA 15.199GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WISR	-	-
1979-W154	2443901.86	1979 Jan 28 0833	Super Arcas	-	NASA 15.151GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y606	2443929.20	1979 Feb 24 1654:50	Super Arcas	-	CMSA-1	0.000	NRCC	SS	-	USU/Baker?	Ionos	AIAA80-1385	-	-
1979-Y122	2443929.22	1979 Feb 24 1722	Super Arcas	-	CMSA-10	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y610	2443930.21	1979 Feb 25 1700	Super Arcas	-	-	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	WI-PR79-6	-	-
1979-Y123	2443930.23	1979 Feb 25 1730	Super Arcas	-	CMSA-05	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y124	2443931.20	1979 Feb 26 1653	Super Arcas	-	CMSA-06	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y125	2443931.23	1979 Feb 26 1738	Super Arcas	-	CMSA-07	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y612	2443931.28	1979 Feb 26 1840	Super Arcas	-	-	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	WI-PR79-6	-	-
1979-Y127	2443931.65	1979 Feb 27 0330	Super Arcas	-	CMSA-08	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y128	2443932.05	1979 Feb 27 1306	Super Arcas	-	CMSA-09	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	JATP45-515	-	-
1979-Y616	2443932.09	1979 Feb 27 1410	Super Arcas	-	-	0.000	NRCC	SS	-	ASL/Olsen	Aeronomy	WI-PR79-6	-	-
1979-Y225	2443969.47	1979 Apr 05 2314:00	Super Arcas	-	NASA 15.176GM /T 1-	0.000	GSFC	SU	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1979-Y394	2444071.01	1979 Jul 16 1213	Super Arcas	-	NASA 15.194GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-W889	2444071.06	1979 Jul 16 1320	Super Arcas	-	NASA 15.196GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y395	2444072.02	1979 Jul 17 1223	Super Arcas	-	NASA 15.195GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-M164	2444079.14	1979 Jul 24 1525	Super Arcas	-	-	0.000	AFGL	SS	-	PSRC/AFGL/Field,Kossey	Ionos	RadioSci21,141	-	-
1979-M165	2444079.16	1979 Jul 24 1555	Super Arcas	-	-	0.000	AFGL	SS	-	PSRC/AFGL/Field,Kossey	Ionos	RadioSci21,141	-	-
1979-Y476	2444129.50	1979 Sep 13	Super Arcas	-	NASA 15.193UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1979-Y477	2444129.50	1979 Sep 13	Super Arcas	-	NASA 15.188UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1979-W1236	2444168.15	1979 Oct 21 1537	Super Arcas	-	NASA 15.203GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y501	2444168.19	1979 Oct 21 1630	Super Arcas	-	NASA 15.204GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-W1239	2444168.22	1979 Oct 21 1715	Super Arcas	-	NASA 15.205GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-W1300	2444181.87	1979 Nov 4 0850	Super Arcas	-	NASA 15.209GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y518	2444181.89	1979 Nov 4 0925	Super Arcas	-	NASA 15.208GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-Y519	2444181.92	1979 Nov 4 1000	Super Arcas	-	NASA 15.207GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1979-S767	2444231.50	1979 Dec 24	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1980-Y83	2444284.85	1980 Feb 15 0825	Super Arcas	-	NASA 15.200UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1980-Y86	2444285.85	1980 Feb 16 0825	Super Arcas	-	NASA 15.201UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1980-W157	2444285.88	1980 Feb 16 0910	Super Arcas	-	NASA 15.202UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1980-Y376	2444465.63	1980 Aug 14 0311	Super Arcas	-	NASA 15.210UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SP-4024	-
1980-Y446	2444535.36	1980 Oct 22 2043	Super Arcas	-	A14.021-1	0.000	AFGL2	SS	-	AFCRL/Narcisi	Plasma	WDCRF	AFCRL	-
1980-M166	2444542.13	1980 Oct 29 1510	Super Arcas	-	-	0.000	AFGL	SS	-	PSRC/AFGL/Field,Kossey	Ionos	RadioSci21,141	-	-
1980-M167	2444542.15	1980 Oct 29 1540	Super Arcas	-	-	0.000	AFGL	SS	-	PSRC/AFGL/Field,Kossey	Ionos	RadioSci21,141	-	-
1980-Y491	2444585.97	1980 Dec 12 1117	Super Arcas	-	NASA 15.189UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1980-Y500	2444594.23	1980 Dec 20 1730	Super Arcas	-	NASA 15.190UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	WDCRF	-	-
1981-Y10	2444615.26	1981 Jan 10 1818	Super Arcas	-	NASA 15.191UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	RevGeo26,519	-	-
1981-Y11	2444615.98	1981 Jan 11 1127	Super Arcas	-	NASA 15.192UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	RevGeo26,519	-	-
1981-S282	2444774.50	1981 Jun 19	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1981-W540	2444825.59	1981 Aug 9 0206	Super Arcas	-	NASA 15.211UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1981-Y309	2444827.59	1981 Aug 11 0208	Super Arcas	-	NASA 15.212UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1981-S283	2444958.50	1981 Dec 20	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1982-Y21	2444989.78	1982 Jan 20 0645	Super Arcas	-	NASA 15.213UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WWW-PFRR	-	-
1982-Y25	2444994.14	1982 Jan 24 1522	Super Arcas	-	NASA 15.216UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WWW-PFRR	-	-
1982-W57	2444995.25	1982 Jan 25 1755:00	Super Arcas	-	TN1-0145	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1982-W59	2444995.30	1982 Jan 25 1913:00	Super Arcas	-	TN1-0146	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1982-W80	2445001.09	1982 Jan 31 1416:00	Super Arcas	-	TN1-0137	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1982-W81	2445001.12	1982 Jan 31 1446:00	Super Arcas	-	TN1-0138	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeron	WDCRF	-	-
1982-Y83	2445044.72	1982 Mar 16 0510	Super Arcas	-	NASA 15.214UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	FC	WISR	-
1982-M50	2445062.15	1982 Apr 2 1532	Super Arcas	-	-	0.000	AFGL	SS	-	PSRC/AFGL/Field,Kossey	Ionos	RadioSci21,141	-	-
1982-Y348	2445250.16	1982 Oct 7 1548	Super Arcas	-	NASA 15.217UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y29	2445372.80	1983 Feb 7 0714:25	Super Arcas	-	NASA 15.224UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	FC	-	-
1983-Y30	2445372.81	1983 Feb 7 0721:25	Super Arcas	-	NASA 15.225UE	0.000	GSFC	SS	-	HOUS/Sheldon	Plasma	FC	-	-
1983-Y70	2445402.22	1983 Mar 8 1716	Super Arcas	-	NASA 15.218UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y73	2445402.42	1983 Mar 8 2200	Super Arcas	-	NASA 15.223UE	0.000	GSFC	SF	U	PSU/Hale	Plasma	WISR	-	-
1983-Y74	2445402.48	1983 Mar 8 2327:03	Super Arcas	-	NASA 15.221UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y75	2445402.54	1983 Mar 9 0100	Super Arcas	-	NASA 15.220UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y84	2445402.92	1983 Mar 9 1011	Super Arcas	-	NASA 15.219UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y85	2445403.00	1983 Mar 9 1200	Super Arcas	-	NASA 15.222UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1983-Y191	2445500.60	1983 Jun 15 0230	Super Arcas	-	A14.311-1	0.000	AFGL2	SS	-	AFCRL/Philbrick	Ionos	WDCRF	AFCRL	-
1983-Y195	2445501.80	1983 Jun 16 0707	Super Arcas	-	A14.311-2	0.000	AFGL2	SS	-	AFCRL/Philbrick	Ionos	WDCRF	AFCRL	-
1983-Y198	2445503.26	1983 Jun 17 1815	Super Arcas	-	A14.311-3	0.000	AFGL2	SS	-	AFCRL/Philbrick	Ionos	WDCRF	AFCRL	-
1984-Y77	2445754.02	1984 Feb 23 1234	Super Arcas	-	NASA 15.226UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-Y93	2445902.42	1984 Jul 20 2203	Super Arcas	-	NASA 15.227UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-Y94	2445904.95	1984 Jul 23 1052	Super Arcas	-	NASA 15.228UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-Y95	2445905.94	1984 Jul 24 1029	Super Arcas	-	NASA 15.229UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-Y97	2445906.00	1984 Jul 24 1156	Super Arcas	-	NASA 15.230UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-S319	2445916.50	1984 Aug 4	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1984-Y114	2445964.40	1984 Sep 20 2132	Super Arcas	-	NASA 15.231UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1984-S320	2446014.50	1984 Nov 10	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1985-S338	2446104.50	1985 Feb 8	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1985-S339	2446104.50	1985 Feb 8	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1985-Y06	2446154.21	1985 Mar 29 1704	Super Arcas	-	NASA 15.232UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-Y07	2446157.27	1985 Apr 1 1822:40	Super Arcas	-	NASA 15.233UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-S340	2446193.50	1985 May 8	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1986-Y169	2446639.21	1986 Jul 27 1700	Super Arcas	-	NASA 15.239UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WISR	-	-
1986-Y171	2446640.99	1986 Jul 29 1142	Super Arcas	-	NASA 15.241UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WISR	-	-
1986-Y172	2446641.25	1986 Jul 29 1758	Super Arcas	-	NASA 15.242UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WISR	-	-
1986-Y176	2446645.01	1986 Aug 2 1220	Super Arcas	-	NASA 15.243UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WISR	-	-
1986-Y177	2446645.20	1986 Aug 2 1650	Super Arcas	-	NASA 15.240UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WISR	-	-
1987-Y216	2446990.83	1987 Jul 14 0800	Super Arcas	-	NASA 15.244UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WDCRF	ESA-SP291	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-Y220	2446990.90	1987 Jul 14 0929	Super Arcas	-	NASA 15.245UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WDCRF	ESA-SP291	-
1987-Y226	2446991.04	1987 Jul 14 1255	Super Arcas	-	NASA 15.247UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WDCRF	ESA-SP291	-
1987-Y229	2446992.02	1987 Jul 15 1232	Super Arcas	-	NASA 15.246UU	0.000	GSFC	SS	-	USU/Ulwick	Aeron	WDCRF	ESA-SP291	-
1987-S272	2447120.50	1987 Nov 21	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1988-S203	2447327.50	1988 Jun 15	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1988-S204	2447506.50	1988 Dec 11	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1989-S156	2447826.50	1989 Oct 27	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1990-S216	2447912.50	1990 Jan 21	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1990-S217	2448215.50	1990 Nov 20	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1990-S225	2448454.50	1991 Jul 17	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1991-Y22	2448469.56	1991 Aug 1 0128:00	Super Arcas	-	NASA 15.249UU NLC-91	0.000	GSFC	SS	-	USU/Ulwick	Ionos	ESA-SP355-45	-	-
1991-Y27	2448474.47	1991 Aug 5 2321	Super Arcas	-	NASA 15.250UE NLC-91	0.000	GSFC	SS	-	USU/Ulwick	Plasma	WISR	-	-
1991-Y29	2448478.48	1991 Aug 9 2330	Super Arcas	-	NASA 15.251UE NLC-91	0.000	GSFC	SS	-	USU/Ulwick	Plasma	WISR	-	-
1992-S112	2448727.50	1992 Apr 15	Super Arcas	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S452	2437299.50	1961	Boosted Arcas	-	-	Test	-	-	-	WS?	-	-	-	90?	-	-
1963-Y06	2438311.29	1963 Oct 08 1900:00	Boosted Arcas	-	-	UJO-1	-	-	-	WS	-	-	-	89	-	-
1963-Y07	2438313.17	1963 Oct 10 1600:00	Boosted Arcas	-	-	UJO-2	-	-	-	WS	-	-	-	81	-	-
1963-Y13	2438377.38	1963 Dec 13 2100:00	Boosted Arcas	-	-	UJO-3	-	-	-	WS	-	-	-	99	-	-
1964-Y10	2438461.48	1964 Mar 6 2325:00	Boosted Arcas	-	-	UJO-4 (Na/Li)	-	-	-	WI	-	-	-	97	-	-
1965-Y15	2438821.05	1965 Mar 01 1312:00	Boosted Arcas	-	NASA 15.03II	UJO-5 (Uppsala)	-	-	-	AND	-	-	-	95	-	-
1965-Y16	2438822.34	1965 Mar 02 2009:00	Boosted Arcas	-	NASA 15.04II	UJO-7	-	-	-	AND	-	-	-	85	-	-
1965-W42	2438835.70	1965 Mar 16 0452:30	Boosted Arcas	-	NASA 15.01GI	Sylvester I	-	-	-	AND	-	-	-	74	-	-
1965-W46	2438842.75	1965 Mar 23 0559:30	Boosted Arcas	-	NASA 15.02GI	Sylvester II	-	-	-	AND	-	-	-	76	-	-
1965-Y74	2438906.33	1965 May 25 1959	Boosted Arcas	-	NASA 15.18GI	Kiwi 1 range test	-	-	-	KARK	L1?	-	-	88	-	-
1965-Y81	2438911.29	1965 May 30 1900	Boosted Arcas	-	NASA 15.05GI	Kiwi 2	-	-	-	KARK	L1?	-	-	88	-	-
1965-Y82	2438911.31	1965 May 30 1920:24	Boosted Arcas	-	NASA 15.06GI	Kiwi 3	-	-	-	KARK	L2?	-	-	88	-	-
1965-Y83	2438911.32	1965 May 30 1940:05	Boosted Arcas	-	NASA 15.07GI	Kiwi 4	-	-	-	KARK	L1?	-	-	88	-	-
1965-Y84	2438911.33	1965 May 30 2000:01	Boosted Arcas	-	NASA 15.08GI	Kiwi 5	-	-	-	KARK	L2?	-	-	88	-	-
1965-Y85	2438911.35	1965 May 30 2020:01	Boosted Arcas	-	NASA 15.09GI	Kiwi 6	-	-	-	KARK	L1?	-	-	88	-	-
1965-Y86	2438911.38	1965 May 30 2100:02	Boosted Arcas	-	NASA 15.10GI	Kiwi 7	-	-	-	KARK	L2?	-	-	88	-	-
1965-Y159	2439096.60	1965 Dec 2 0219	Boosted Arcas	-	NASA 15.20GI-II	Arcas I	-	-	-	AND	-	-	-	80?	-	-
1965-Y160	2439101.08	1965 Dec 6 1358:30	Boosted Arcas	-	NASA 15.19GI	Sylvester III	-	-	-	AND	-	-	-	85	-	-
1966-W94	2439166.96	1966 Feb 10 1059	Boosted Arcas	?	-	Arcasonde IIA	-	Ship Sierra	RREC?	USN66A	LP1	-	-	60?	-	-
1966-A66	2439260.95	1966 May 15 1043	Boosted Arcas	-	NASA 15.25GI	Zorba I (Test)	-	-	RREC	KOR	LP1	-	-	20?	-	-
1966-Y14	2439265.83	1966 May 20 0800	Boosted Arcas	-	NASA 15.26GI	Zorba II	-	-	RREC	KOR	LP1	-	-	90?	-	-
1966-Y16	2439265.86	1966 May 20 0845	Boosted Arcas	-	NASA 15.27GI	Zorba III	-	-	RREC	KOR	LP1	-	-	99	-	-
1966-Y18	2439265.90	1966 May 20 0930	Boosted Arcas	-	NASA 15.28GI	Zorba IV	-	-	RREC	KOR	LP1	-	-	102	-	-
1966-Y20	2439265.93	1966 May 20 1015	Boosted Arcas	-	NASA 15.29GI	Zorba V	-	-	RREC	KOR	LP1	-	-	90?	-	-
1966-Y22	2439265.96	1966 May 20 1105	Boosted Arcas	-	NASA 15.30GI	Zorba VI	-	-	RREC	KOR	LP1	-	-	101	-	-
1966-Y24	2439266.90	1966 May 21 0930	Boosted Arcas	-	NASA 15.31GI	Zorba VII	-	-	RREC	KOR	LP1	-	-	90?	-	-
1966-Y32	2439331.50	1966 Jul 25	Boosted Arcas 2	-	-	Test 1	-	-	-	WS	-	-	-	145	-	-
1966-Y37	2439367.03	1966 Aug 29 1238	Boosted Arcas	-	NASA 15.12	D-region	-	-	-	WS	-	-	-	90?	-	-
1966-Y38	2439367.07	1966 Aug 29 1337	Boosted Arcas	-	NASA 15.11	D-region	-	-	-	WS	-	-	-	90?	-	-
1967-Y18	2439517.28	1967 Jan 26 1845:00	Boosted Arcas	?	-	-	-	-	-	WS	-	-	-	104	-	-
1967-Y27	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y28	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y29	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y30	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y31	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y32	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y33	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y34	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y35	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-Y36	2439580.50	1967 Apr	Boosted Arcas	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1967-A123	2439766.50	1967 Oct 3	Boosted Arcas	-	NASA 12.09GT	Booster test	-	-	-	WI	-	-	-	2?	-	-
1967-W202	2439788.08	1967 Oct 24 1400	Boosted Arcas	-	NASA 15.32GI	Mag North	-	-	-	RES	-	-	-	60?	-	-
1967-W203	2439788.33	1967 Oct 24 1950	Boosted Arcas	-	NASA 15.33GI	Mag North	-	-	-	RES	-	-	-	60?	-	-
1968-Y17	2439923.77	1968 Mar 8 0635	Boosted Arcas	-	NASA 15.58UE	ISRO 12.01 BRAHMA-I	TERLS-068	-	-	TERLS	-	-	-	83	-	-
1968-Y18	2439924.03	1968 Mar 8 1240	Boosted Arcas	-	NASA 15.59UE	ISRO 12.02 BRAHMA-II	TERLS-069	-	-	TERLS	-	-	-	94	-	-
1968-W87	2439960.59	1968 Apr 14 0203	Boosted Arcas 2	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W88	2439960.72	1968 Apr 14 0519	Boosted Arcas 2	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-A72	2439964.34	1968 Apr 17 2013	Boosted Arcas 2	-	NASA 12.10GT	MARC 42A2 test	-	-	-	WI	-	-	-	8	-	-
1968-Y24	2439979.45	1968 May 2 2242	Boosted Arcas	-	-	325-1	-	-	-	FC	-	-	-	95?	-	-
1968-Y35	2440017.61	1968 Jun 10 0235	Boosted Arcas	-	-	325-2	-	-	-	FC	-	-	-	95	-	-
1968-Y54	2440070.60	1968 Aug 2 0218	Boosted Arcas	-	NASA 15.52GI	D-region	-	-	-	RES	-	-	-	84?	-	-
1968-Y55	2440070.94	1968 Aug 2 1031	Boosted Arcas	-	NASA 15.34GI	D-region	-	-	-	RES	-	-	-	85?	-	-
1968-Y58	2440081.00	1968 Aug 12 1204:00	Boosted Arcas 2	-	AE007	ESRO A50/1	-	-	-	ESR	-	-	-	96	-	-
1968-Y69	2440094.20	1968 Aug 25 1640:50	Boosted Arcas 2	-	AE008	ESRO A50/2	-	-	-	ESR	-	-	-	109	-	-
1968-A100	2440120.30	1968 Sep 20 1917	Boosted Arcas 2	-	NASA 12.16GT	Launcher test	-	-	-	WI	-	-	-	43	-	-
1968-Y89	2440154.37	1968 Oct 24 2050	Boosted Arcas 2	-	NASA 15.43II	RTG SA1/1-K68	-	-	-	ESR	-	-	-	104	-	-
1968-Y91	2440163.18	1968 Nov 2 1617	Boosted Arcas	-	-	325-4	-	-	-	FC	-	-	-	102	-	-
1968-Y92	2440163.41	1968 Nov 2 2150	Boosted Arcas	-	-	325-5	-	-	-	FC	-	-	-	102	-	-
1969-A19	2440238.50	1969 Jan 17 0002:28	Boosted Arcas 2	-	NASA 15.44II	RTG SA1/2-A69	-	-	-	AND	-	-	-	7	-	-
1969-Y32	2440240.31	1969 Jan 18 1923:30	Boosted Arcas 2	-	NASA 15.45II	RTG SA1/3-A69	-	-	-	AND	-	-	-	99	-	-
1969-Y60	2440249.33	1969 Jan 27 1953	Boosted Arcas 2	-	NASA 15.47GT	Res Bay Eval	-	-	-	WI	-	-	-	102	-	-
1969-Y109	2440325.59	1969 Apr 14 0203	Boosted Arcas 2	-	-	325-4	-	-	-	FC	-	-	-	101	-	-
1969-Y110	2440325.72	1969 Apr 14 0519	Boosted Arcas 2	-	-	325-5	-	-	-	FC	-	-	-	99	-	-
1969-Y111	2440326.38	1969 Apr 14 2108	Boosted Arcas 2	-	-	325-6	-	-	-	FC	-	-	-	110	-	-
1969-Y117	2440330.51	1969 Apr 19 0010	Boosted Arcas 2	-	AMM-BA-1	O/OH profile	-	-	-	FC	-	-	-	104	-	-
1969-Y118	2440330.55	1969 Apr 19 0117	Boosted Arcas 2	-	AMM-BA-2	O/OH profile	-	-	-	FC	-	-	-	103	-	-
1969-W570	2440330.67	1969 Apr 19 0409	Boosted Arcas 2	-	AMM-BA-3	O/OH profile	-	-	-	FC	-	-	-	55	-	-
1969-Y248	2440504.55	1969 Oct 10 0119	Boosted Arcas 2	-	NASA 15.53GI	-	-	-	-	RES	-	-	-	110	-	-
1969-Y275	2440523.50	1969 Oct 29	Boosted Arcas	?	NASA 15.42UI	-	-	-	-	WI	-	-	-	110	-	-
1970-W453	2440672.79	1970 Mar 27 0700	Boosted Arcas	-	NASA 15.54GI	ISRO-12.03	TERLS-176	-	-	TERLS	-	-	-	68	-	-
1970-Y111	2440673.03	1970 Mar 27 1242	Boosted Arcas 2	-	NASA 15.63UE	ISRO-12.04	TERLS-177	-	-	TERLS	-	-	-	93	-	-
1970-Y112	2440673.05	1970 Mar 27 1306	Boosted Arcas 2	-	NASA 15.64UE	ISRO-12.05	TERLS-178	-	-	TERLS	-	-	-	103	-	-
1970-Y113	2440673.06	1970 Mar 27 1330	Boosted Arcas 2	-	NASA 15.65UE	ISRO-12.06	TERLS-179	-	-	TERLS	-	-	-	97	-	-
1971-Y46	2440981.33	1971 Jan 29 1948	Boosted Arcas 2	-	NASA 15.50UE	-	-	-	-	WI	-	-	-	122	-	-
1971-W285	2441002.64	1971 Feb 20 0323	Boosted Arcas	-	NASA 15.75UI	Auroral particles	-	-	-	FC	-	-	-	59	-	-
1971-W326	2441013.79	1971 Mar 3 0652	Boosted Arcas	-	NASA 15.89UI	Auroral particles	-	-	-	FC	-	-	-	65	-	-
1971-W1080	2441174.34	1971 Aug 10 2015	Boosted Arcas 2	-	NASA 15.14GI	-	-	-	-	WS	-	-	-	70	-	-
1971-W1374	2441238.24	1971 Oct 13 1750:00	Boosted Arcas 2	?	-	-	-	-	-	WS	-	-	-	69	-	-
1971-W1377	2441238.33	1971 Oct 13 1959	Boosted Arcas 2	-	NASA 15.15GI	-	-	-	-	WS	-	-	-	63	-	-
1972-W72	2441332.50	1972 Jan 15 2359	Boosted Arcas	-	NASA 15.97UI	ATT-BA-4	-	-	-	FC	-	-	-	53	-	-
1972-W73	2441332.50	1972 Jan 16 0000	Boosted Arcas	-	NASA 15.98UI	-	-	-	-	FC	-	-	-	60	-	-
1972-W1346	2441623.68	1972 Nov 2 0426	Boosted Arcas	-	NASA 15.96UI	-	-	-	-	FC	-	-	-	57	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S452	2437299.50	1961	Boosted Arcas	-	-	0.000	WSMR?	SS	-	WSMR/?	Test	ARC-Pamphlet	-	-
1963-Y06	2438311.29	1963 Oct 08 1900:00	Boosted Arcas	-	-	0.000	GSFC/UIO	SS	-	UIO/Pedersen	Ionos	Tellus17,1	SP-4401	-
1963-Y07	2438313.17	1963 Oct 10 1600:00	Boosted Arcas	-	-	0.000	GSFC/UIO	SS	-	UIO/	Ionos	Tellus17,1	SP-4401	-
1963-Y13	2438377.38	1963 Dec 13 2100:00	Boosted Arcas	-	-	0.000	GSFC/UIO	SS	-	UIO/	Ionos	Tellus17,1	SP-4004	-
1964-Y10	2438461.48	1964 Mar 6 2325:00	Boosted Arcas	-	-	0.000	UIO/GSFC	SS	-	UIO/Derblom	Aeron	SP-4005	Sven	-
1965-Y15	2438821.05	1965 Mar 01 1312:00	Boosted Arcas	-	NASA 15.03II	0.000	UIO/GSFC	SS	-	UIO/Pedersen	Ionos	AND	SP-4401	-
1965-Y16	2438822.34	1965 Mar 02 2009:00	Boosted Arcas	-	NASA 15.04II	0.000	UIO/GSFC	SS	-	UIO/Pedersen	Ionos	AND	SP-4401	-
1965-W42	2438835.70	1965 Mar 16 0452:30	Boosted Arcas	-	NASA 15.01GI	0.000	GSFC/NTNF	SS	-	GSFC/Kane	Ionos	AND	SP-4401	-
1965-W46	2438842.75	1965 Mar 23 0559:30	Boosted Arcas	-	NASA 15.02GI	0.000	GSFC/NTNF	SS	-	GSFC/Kane	Ionos	AND	WDCRF	-
1965-Y74	2438906.33	1965 May 25 1959	Boosted Arcas	-	NASA 15.18GI	0.000	GSFC	SS	-	GSFC/Kane	Test	TM-X-55519	SP-4401	-
1965-Y81	2438911.29	1965 May 30 1900	Boosted Arcas	-	NASA 15.05GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y82	2438911.31	1965 May 30 1920:24	Boosted Arcas	-	NASA 15.06GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y83	2438911.32	1965 May 30 1940:05	Boosted Arcas	-	NASA 15.07GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y84	2438911.33	1965 May 30 2000:01	Boosted Arcas	-	NASA 15.08GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y85	2438911.35	1965 May 30 2020:01	Boosted Arcas	-	NASA 15.09GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y86	2438911.38	1965 May 30 2100:02	Boosted Arcas	-	NASA 15.10GI	0.000	GSFC	SS	-	GSFC/Kane,Aikin	Ionos/Eclipse	TM-X-55519	SP-4401	-
1965-Y159	2439096.60	1965 Dec 2 0219	Boosted Arcas	-	NASA 15.20GI-II	0.000	NTNF	SS	-	ILC/NDRE/Jespersen,Land.	Ionos	AND	SP-4401	-
1965-Y160	2439101.08	1965 Dec 6 1358:30	Boosted Arcas	-	NASA 15.19GI	0.000	NTNF/GSFC	SS	-	GSFC/Kane	Ionos	AND	WDCRF	-
1966-W94	2439166.96	1966 Feb 10 1059	Boosted Arcas	?	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A66	2439260.95	1966 May 15 1043	Boosted Arcas	-	NASA 15.25GI	0.000	GSFC	SF	U	GSFC/Aikin	Iono-solar Eclipse	WDCRF	SP-4007	-
1966-Y14	2439265.83	1966 May 20 0800	Boosted Arcas	-	NASA 15.26GI	0.000	GSFC	SS	-	GSFC/Aikin	Iono-solar Eclipse	WDCRF	-	-
1966-Y16	2439265.86	1966 May 20 0845	Boosted Arcas	-	NASA 15.27GI	0.000	GSFC	SS	-	GSFC/Aikin	Iono-solar Eclipse	WDCRF	-	-
1966-Y18	2439265.90	1966 May 20 0930	Boosted Arcas	-	NASA 15.28GI	0.000	GSFC	SS	-	GSFC/Aikin	Iono-solar Eclipse	WDCRF	-	-
1966-Y20	2439265.93	1966 May 20 1015	Boosted Arcas	-	NASA 15.29GI	0.000	GSFC	SS	-	GSFC/Aikin	Iono-solar Eclipse	WDCRF	-	-
1966-Y22	2439265.96	1966 May 20 1105	Boosted Arcas	-	NASA 15.30GI	0.000	GSFC	SS	-	GSFC/Aikin	Iono-solar Eclipse	WDCRF	-	-
1966-Y24	2439266.90	1966 May 21 0930	Boosted Arcas	-	NASA 15.31GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	-	-
1966-Y32	2439331.50	1966 Jul 25	Boosted Arcas 2	-	-	0.000	GSFC	SS	-	WSMR/?	Test	SP-4007	MR660801-10	-
1966-Y37	2439367.03	1966 Aug 29 1238	Boosted Arcas	-	NASA 15.12	0.000	GSFC	SS	-	GSFC/Pederson	Ionos	WDCRF	-	-
1966-Y38	2439367.07	1966 Aug 29 1337	Boosted Arcas	-	NASA 15.11	0.000	GSFC	SS	-	GSFC/Pederson	Ionos	WDCRF	-	-
1967-Y18	2439517.28	1967 Jan 26 1845:00	Boosted Arcas	?	-	0.000	ASL	SU	-	WSMR/	Aeron	WDCRF	-	-
1967-Y27	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y28	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y29	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y30	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y31	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y32	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y33	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y34	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y35	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-Y36	2439580.50	1967 Apr	Boosted Arcas	-	-	0.000	ISAS/GSFC	SS	-	ISAS/	Aeron	SP-4401	-	-
1967-A123	2439766.50	1967 Oct 3	Boosted Arcas	-	NASA 12.09GT	0.000	GSFC	SF	U	GSFC/Wood	Test	SP-4401	-	-
1967-W202	2439788.08	1967 Oct 24 1400	Boosted Arcas	-	NASA 15.32GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	SP-4008	-
1967-W203	2439788.33	1967 Oct 24 1950	Boosted Arcas	-	NASA 15.33GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	SP-4008	-
1968-Y17	2439923.77	1968 Mar 8 0635	Boosted Arcas	-	NASA 15.58UE	0.000	GSFC	SS	-	GSFC/ISRO/Kane	Plasma	WDCRF	IJRadioSP1,81	-
1968-Y18	2439924.03	1968 Mar 8 1240	Boosted Arcas	-	NASA 15.59UE	0.000	GSFC	SS	-	GSFC/ISRO/Kane	Plasma	WDCRF	IJRadioSP1,81	-
1968-W87	2439960.59	1968 Apr 14 0203	Boosted Arcas 2	-	-	0.000	AFCRL?	SU	-	USAF/	Ionos	WDCRF	-	-
1968-W88	2439960.72	1968 Apr 14 0519	Boosted Arcas 2	-	-	0.000	AFCRL?	SU	-	USAF/	Ionos	WDCRF	-	-
1968-A72	2439964.34	1968 Apr 17 2013	Boosted Arcas 2	-	NASA 12.10GT	0.000	GSFC	SS	-	GSFC/Wood	Test	WDCRF	SP-4010	-
1968-Y24	2439979.45	1968 May 2 2242	Boosted Arcas	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1968-Y35	2440017.61	1968 Jun 10 0235	Boosted Arcas	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1968-Y54	2440070.60	1968 Aug 2 0218	Boosted Arcas	-	NASA 15.52GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	SP-4010	-
1968-Y55	2440070.94	1968 Aug 2 1031	Boosted Arcas	-	NASA 15.34GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	SP-4010	-
1968-Y58	2440081.00	1968 Aug 12 1204:00	Boosted Arcas 2	-	AE007	0.000	ESRO	SS	-	MSSL/DSRI/Boyd	Ionospheric	ESRO-SP-79	WDCRF	-
1968-Y69	2440094.20	1968 Aug 25 1640:50	Boosted Arcas 2	-	AE008	0.000	ESRO	SS	-	MSSL/DSRI/Boyd	Ionospheric	ESRO-SP-79	WDCRF	-
1968-A100	2440120.30	1968 Sep 20 1917	Boosted Arcas 2	-	NASA 12.16GT	0.000	GSFC	SF	U	GSFC/Pedolsky	Test	WDCRF	SP-4010	-
1968-Y89	2440154.37	1968 Oct 24 2050	Boosted Arcas 2	-	NASA 15.43II	0.000	GSFC/RTG	SS	-	UIO/Stoffregen	Ionos/Auroral	WDCRF	SP-4010	-
1968-Y91	2440163.18	1968 Nov 2 1617	Boosted Arcas	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1968-Y92	2440163.41	1968 Nov 2 2150	Boosted Arcas	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1969-A19	2440238.50	1969 Jan 17 0002:28	Boosted Arcas 2	-	NASA 15.44II	0.000	GSFC/RTG	SF	U	UIO/Stoffregen	Ionos	AND	SP-4014	-
1969-Y32	2440240.31	1969 Jan 18 1923:30	Boosted Arcas 2	-	NASA 15.45II	0.000	GSFC/RTG	SS	-	UIO/Stoffregen	Ionos	AND	WDCRF	-
1969-Y60	2440249.33	1969 Jan 27 1953	Boosted Arcas 2	-	NASA 15.47GT	0.000	GSFC	SS	-	GSFC/Pedolsky	Test	WDCRF	SP-4014	-
1969-Y109	2440325.59	1969 Apr 14 0203	Boosted Arcas 2	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1969-Y110	2440325.72	1969 Apr 14 0519	Boosted Arcas 2	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1969-Y111	2440326.38	1969 Apr 14 2108	Boosted Arcas 2	-	-	0.000	GSFC/ESSA	SS	-	ESSA/Megill	Ionos	FC	-	-
1969-Y117	2440330.51	1969 Apr 19 0010	Boosted Arcas 2	-	AMM-BA-1	0.000	NRCC	SS	-	ESSA/Megill?	Aeron	WDCRF	-	-
1969-Y118	2440330.55	1969 Apr 19 0117	Boosted Arcas 2	-	AMM-BA-2	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1969-W570	2440330.67	1969 Apr 19 0409	Boosted Arcas 2	-	AMM-BA-3	0.000	NRCC	SF	U	YORK/Schiff	Aeron	WDCRF	-	-
1969-Y248	2440504.55	1969 Oct 10 0119	Boosted Arcas 2	-	NASA 15.53GI	0.000	GSFC	SS	-	GSFC/Kane	Plasma	WDCRF	SP-4014	-
1969-Y275	2440523.50	1969 Oct 29	Boosted Arcas	?	NASA 15.42UI	0.000	GSFC	SS	-	PSU/Kendall	Ionos	WDCRF	-	-
1970-W453	2440672.79	1970 Mar 27 0700	Boosted Arcas	-	NASA 15.54GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	-	-
1970-Y111	2440673.03	1970 Mar 27 1242	Boosted Arcas 2	-	NASA 15.63UE	0.000	GSFC	SS	-	GSFC/CISIR/Kane	Plasma	WDCRF	IJRadioSP3,99	-
1970-Y112	2440673.05	1970 Mar 27 1306	Boosted Arcas 2	-	NASA 15.64UE	0.000	GSFC	SS	-	GSFC/CISIR/Kane	Plasma	WDCRF	IJRadioSP3,99	-
1970-Y113	2440673.06	1970 Mar 27 1330	Boosted Arcas 2	-	NASA 15.65UE	0.000	GSFC	SS	-	GSFC/CISIR/Kane	Plasma	WDCRF	IJRadioSP3,99	-
1971-Y46	2440981.33	1971 Jan 29 1948	Boosted Arcas 2	-	NASA 15.50UE	0.000	GSFC	SS	-	GSFC/Kane	Plasma	WDCRF	-	-
1971-W285	2441002.64	1971 Feb 20 0323	Boosted Arcas	-	NASA 15.75UI	0.000	GSFC	SS	-	HOUS/Sheldon,Kern	Ionos	WDCRF	SP-4016	-
1971-W326	2441013.79	1971 Mar 3 0652	Boosted Arcas	-	NASA 15.89UI	0.000	GSFC	SS	-	HOUS/Sheldon,Kern	Ionos	WDCRF	SP-4016	-
1971-W1080	2441174.34	1971 Aug 10 2015	Boosted Arcas 2	-	NASA 15.14GI	0.000	GSFC	SS	-	GSFC/Kane,Serbu	Ionos	KPNO	SP-4016	-
1971-W1374	2441238.24	1971 Oct 13 1750:00	Boosted Arcas 2	?	-	0.000	GSFC?	SS	-	PSU/Hale	Ionos	WDCRF	-	-
1971-W1377	2441238.33	1971 Oct 13 1959	Boosted Arcas 2	-	NASA 15.15GI	0.000	GSFC	SS	-	GSFC/Serbu	Ionos	KPNO	-	-
1972-W72	2441332.50	1972 Jan 15 2359	Boosted Arcas	-	NASA 15.97UI	0.000	GSFC/NRCC	SS	-	HOUS/NRCC/Sheldon,Whal	Auroral	FC	SP-4017	-
1972-W73	2441332.50	1972 Jan 16 0000	Boosted Arcas	-	NASA 15.98UI	0.000	GSFC	SS	-	HOUS/Sheldon	Ionos	FC	SP-4017	-
1972-W1346	2441623.68	1972 Nov 2 0426	Boosted Arcas	-	NASA 15.96UI	0.000	GSFC	SS	-	HOUS/Sheldon	Ionos	WDCRF	SP-4017	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A74	2436400.50	1958 Jul 16	Arcon	-	NRL-1	-	-	-	-	WI	-	-	-	1	-	-
1958-A78	2436405.50	1958 Jul 21	Arcon	-	SEL-1	-	-	-	-	WI	-	-	-	1	-	-
1958-A79	2436406.50	1958 Jul 22	Arcon	-	-	-	-	-	-	WI	-	-	-	20	-	-
1959-M13	2436703.25	1959 May 14 1755	Arcon	-	NASA 2.01GT	-	-	-	-	WI	-	-	-	68	-	-
1959-M14	2436704.22	1959 May 15 1710	Arcon	-	NASA 2.02GT	-	-	-	-	WI	-	-	-	60?	-	-
1959-A77	2436704.42	1959 May 15 2210	Arcon	-	NASA 2.03GT	-	-	-	-	WI	-	-	-	1	-	-
1959-A133	2436787.50	1959 Aug 7	Arcon	-	NASA 2.04GT	-	-	-	-	WI	-	-	-	20	-	-
1959-M25	2436787.50	1959 Aug 7	Arcon	-	NASA 2.05GT	-	-	-	-	WI	-	-	-	50	-	-
1959-S135	2436787.50	1959 Aug 7	Arcon	-	NASA 2.06GT	-	-	-	-	WI	-	-	-	104	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A74	2436400.50	1958 Jul 16	Arcon	-	NRL-1	0.000	NRL	SF	U	NRL/	Test	RP-1028	Alway	-
1958-A78	2436405.50	1958 Jul 21	Arcon	-	SEL-1	0.000	SRDL	SF	U	SCEL/	Test	RP-1028	Alway	-
1958-A79	2436406.50	1958 Jul 22	Arcon	-	-	0.000	NRL?	SF	U	NRL/	Test	RP-1028	Alway	-
1959-M13	2436703.25	1959 May 14 1755	Arcon	-	NASA 2.01GT	0.000	GSFC	SS	-	GSFC/Medrow	Test	WDCRF	RP-1028	-
1959-M14	2436704.22	1959 May 15 1710	Arcon	-	NASA 2.02GT	0.000	GSFC	SS	-	GSFC/Medrow	Test	WDCRF	RP-1028	-
1959-A77	2436704.42	1959 May 15 2210	Arcon	-	NASA 2.03GT	0.000	GSFC	SF	U	GSFC/Medrow	Test	WDCRF	RP-1028	-
1959-A133	2436787.50	1959 Aug 7	Arcon	-	NASA 2.04GT	0.000	GSFC	SF	U	GSFC/Medrow	Test	WDCRF	RP-1028	-
1959-M25	2436787.50	1959 Aug 7	Arcon	-	NASA 2.05GT	0.000	GSFC	SF	U	GSFC/Medrow	Test	WDCRF	RP-1028	-
1959-S135	2436787.50	1959 Aug 7	Arcon	-	NASA 2.06GT	0.000	GSFC	SF	U	GSFC/Medrow	Test	SP-4401	RP-1028	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-104	2444232.22	1979 Dec 24 1714:38	Ariane 1	-	L01	-	CAT	-	-	CSG	ELA1	-	-	35836	-	-
1980-F01	2444383.10	1980 May 23 1429:39	Ariane 1	-	L02	Firewheel	CAT	-	-	CSG	ELA1	-	-	20?	-	-
1981-057	2444775.02	1981 Jun 19 1232:59	Ariane 1	-	L03	Meteosat 2/Apple	Meteosat F2	-	-	CSG	ELA1	-	-	38328	-	-
1981-122	2444958.56	1981 Dec 20 0129:00	Ariane 1	-	L04	Marecs 1	Marecs A	-	-	CSG	ELA1	-	-	37901	-	-
1982-F06	2445221.59	1982 Sep 9 0212:00	Ariane 1	-	L5	Marecs B/Sirio B	Marecs B	-	-	CSG	ELA1	-	-	220?	-	-
1983-058	2445502.00	1983 Jun 16 1159:03	Ariane 1	-	L6	ECS 1	ECS 1	-	-	CSG	ELA1	-	-	38994	-	-
1983-105	2445626.53	1983 Oct 19 0045:36	Ariane 1	-	L7	Intelsat 507	INTELSAT V F7	-	-	CSG	ELA1	-	-	40064	-	-
1984-023	2445764.53	1984 Mar 5 0050:03	Ariane 1	-	L8	Intelsat 508	INTELSAT V F8	-	-	CSG	ELA1	-	-	36767	-	-
1984-049	2445843.56	1984 May 23 0133:29	Ariane 1	-	V9 L9	Spacenet 1	Spacenet F1	-	-	CSG	ELA1	-	-	36463	-	-
1984-081	2445917.06	1984 Aug 4 1332:54	Ariane 3	-	V10 L12	ECS 2/Telecom 1A	ECS 2	-	-	CSG	ELA1	-	-	37706	-	-
1984-114	2446014.55	1984 Nov 10 0114:18	Ariane 3	-	V11 L13	Spacenet 2/Marecs 2	Spacenet F2	-	-	CSG	ELA1	-	-	49861	-	-
1985-015	2446105.47	1985 Feb 8 2322:00	Ariane 3	-	V12 L14	Arab 1A/Brasilsat 1	Arabsat 1A	-	-	CSG	ELA1	-	-	39451	-	-
1985-035	2446193.55	1985 May 8 0115:38	Ariane 3	-	V13 L15	Gstar 1/Telecom 1B	Gstar 1A	-	-	CSG	ELA1	-	-	36495	-	-
1985-056	2446248.97	1985 Jul 2 1123:13	Ariane 1	-	V14 L10	Giotto	Giotto	-	-	CSG	ELA1	-	-	150000	-	-
1985-F03	2446321.48	1985 Sep 12 2326:00	Ariane 3	-	V15 L16	ECS 3/Spacenet 3	ECS 3	-	-	CSG	ELA1	-	-	220?	-	-
1986-019	2446483.57	1986 Feb 22 0144:35	Ariane 1	-	V16 L11	Spot/Viking	SPOT	-	-	CSG	ELA1	-	-	13568	-	-
1986-026	2446518.48	1986 Mar 28 2330:00	Ariane 3	-	V17 L17	Gstar 2/Brasilsat 2	Gstar 2	-	-	CSG	ELA2	-	-	36889	-	-
1986-F05	2446581.54	1986 May 31 0053:03	Ariane 2	-	V18 L18	Intelsat 514	INTELSAT VA F14	-	-	CSG	ELA1	-	-	250?	-	-
1987-078	2447054.53	1987 Sep 16 0045:28	Ariane 3	-	V19 L19	Aussat K3/ECS 4	Aussat K3	-	-	CSG	ELA1	-	-	37094	-	-
1987-095	2447120.60	1987 Nov 21 0219:00	Ariane 2	-	V20 L20	TV-SAT	TV-SAT	-	-	CSG	ELA2	-	-	36454	-	-
1988-018	2447232.48	1988 Mar 11 2328:00	Ariane 3	-	V21 L21	Tel. 1C/Spacenet 3R	Spacenet 3R	-	-	CSG	ELA1	-	-	37512	-	-
1988-040	2447299.50	1988 May 17 2358:00	Ariane 2	-	V23 L22	Intelsat 513	INTELSAT VA F13	-	-	CSG	ELA1	-	-	36353	-	-
1988-051	2447327.97	1988 Jun 15 1119:01	Ariane 44LP	44LP	V22 L401	Meteosat 3/PAS 1	Meteosat P2	-	-	CSG	ELA2	-	-	38535	-	-
1988-063	2447364.47	1988 Jul 21 2312:00	Ariane 3	-	V24 L23	Insat 1C/ECS 5	Insat 1C	-	-	CSG	ELA1	-	-	37873	-	-
1988-081	2447413.46	1988 Sep 8 2300:00	Ariane 3	-	V25 L24	Gstar 3/SBS 5	Gstar 3	-	-	CSG	ELA2	-	-	36930	-	-
1988-098	2447462.60	1988 Oct 28 0217:00	Ariane 2	-	V26 L25	TDF 1	TDF 1	-	-	CSG	ELA1	-	-	36178	-	-
1988-109	2447506.52	1988 Dec 11 0033:38	Ariane 44LP	44LP	V27 L402	Skynet 4B/Astra 1A	Skynet 4B	-	-	CSG	ELA2	-	-	40539	-	-
1989-006	2447553.56	1989 Jan 27 0121:00	Ariane 2	-	V28 L26	Intelsat 515	INTELSAT VA F15	-	-	CSG	ELA1	-	-	36239	-	-
1989-020	2447592.48	1989 Mar 6 2329:00	Ariane 44LP	44LP	V29 L403	JCSAT 1/Meteosat 4	JCSAT 1	-	-	CSG	ELA2	-	-	38098	-	-
1989-027	2447618.60	1989 Apr 2 0228:00	Ariane 2	-	V30 L27	Tele-X	Tele-X	-	-	CSG	ELA1	-	-	36156	-	-
1989-041	2447683.44	1989 Jun 5 2237:18	Ariane 44L	44L	V31 L404	Superbird A/DFS 1	Superbird A	-	-	CSG	ELA2	-	-	36833	-	-
1989-053	2447719.51	1989 Jul 12 0014:00	Ariane 3	-	V32 L28	Olympus	Olympus	-	-	CSG	ELA1	-	-	36208	-	-
1989-062	2447747.48	1989 Aug 8 2325:53	Ariane 44LP	44LP	V33 L405	TV-SAT 2/Hipparcos	TV-SAT 2	-	-	CSG	ELA2	-	-	36098	-	-
1989-087	2447827.46	1989 Oct 27 2305:00	Ariane 44L	44L	V34 L406	Intelsat 602	INTELSAT VI F-2	-	-	CSG	ELA2	-	-	37846	-	-
1990-005	2447913.57	1990 Jan 22 0135:27	Ariane 40	40	V35 L408	SPOT 2/ASAP-1	SPOT 2	-	-	CSG	ELA2	-	-	830	-	-
1990-F01	2447945.47	1990 Feb 22 2317:00	Ariane 44L	44L	V36 L407	Superbird B/BS 2X	Superbird B	-	-	CSG	ELA2	-	-	9	-	-
1990-063	2448097.43	1990 Jul 24 2225:00	Ariane 44L	44L	V37 L409	TDF 2/DFS 2	TDF 2	-	-	CSG	ELA2	-	-	36656	-	-
1990-079	2448134.45	1990 Aug 30 2246:00	Ariane 44LP	44LP	V38 L410b	Eut. 2F1/Skynet 4C	Skynet 4C	-	-	CSG	ELA2	-	-	37977	-	-
1990-091	2448177.46	1990 Oct 12 2258:18	Ariane 44L	44L	V39 L411b	SBS 6/Galaxy 6	SBS 6	-	-	CSG	ELA2	-	-	36892	-	-
1990-100	2448216.47	1990 Nov 20 2311:00	Ariane 42P	42P	V40 L412b	Satcom C1/Gstar 4	Satcom C1	-	-	CSG	ELA2	-	-	36616	-	-
1991-003	2448272.47	1991 Jan 15 2310:49	Ariane 44L	44L	V41 L413a	Italsat 1/Eut. 2F2	Italsat 1	-	-	CSG	ELA2	-	-	40720	-	-
1991-015	2448318.48	1991 Mar 2 2336:00	Ariane 44LP	44LP	V42 L414	Astra 1B/Meteosat 5	Astra 1B	-	-	CSG	ELA2	-	-	41849	-	-
1991-026	2448351.48	1991 Apr 4 2333:00	Ariane 44P	44P	V43 L415a	Anik E2	Anik E2	-	-	CSG	ELA2	-	-	37437	-	-
1991-050	2448454.57	1991 Jul 17 0146:31	Ariane 40	40	V44 L416a	ERS 1/ASAP 2	ERS-1	-	-	CSG	ELA2	-	-	805	-	-
1991-055	2448483.47	1991 Aug 14 2315:13	Ariane 44L	44L	V45 L417	Intelsat 605	INTELSAT VI F-5	-	-	CSG	ELA2	-	-	37118	-	-
1991-067	2448526.49	1991 Sep 26 2343:00	Ariane 44P	44P	V46 L418a	Anik E1	Anik E1	-	-	CSG	ELA2	-	-	36171	-	-
1991-075	2448559.46	1991 Oct 29 2308:08	Ariane 44L	44L	V47 L419	Intelsat 601	INTELSAT VI F-1	-	-	CSG	ELA2	-	-	36396	-	-
1991-084	2448607.47	1991 Dec 16 2319:48	Ariane 44L	44L	V48 L420a	Inmarsat 2F3/Tel. 2A	Telecom 2A	-	-	CSG	ELA2	-	-	37100	-	-
1992-010	2448679.50	1992 Feb 26 2358:10	Ariane 44L	44L	V49 L421b	Superbird B1/Arab 1C	Superbird B1	-	-	CSG	ELA2	-	-	37496	-	-
1992-021	2448728.48	1992 Apr 15 2325:27	Ariane 44L	44L+	V50 L422a	Inmarsat 2F4/Tel. 2B	Telecom 2B	-	-	CSG	ELA2	-	-	36730	-	-
1992-041	2448813.45	1992 Jul 9 2242:19	Ariane 44L	44L	V51 L423c	Insat 2A/Eutel. 2F4	Insat 2A	-	-	CSG	ELA2	-	-	40303	-	-
1992-052	2448845.46	1992 Aug 10 2308:07	Ariane 42P	42P	V52 L424b	Topex/ASAP 3	Topex-Poseidon	-	-	CSG	ELA2	-	-	1410	-	-
1992-060	2448876.46	1992 Sep 10 2304:00	Ariane 44LP	44LP+	V53 L425a	Hisp. 1A/Satcom C3	Hispasat 1A	-	-	CSG	ELA2	-	-	36854	-	-
1992-072	2448923.51	1992 Oct 28 0015:00	Ariane 42P	42P+	V54 L426a	Galaxy 7	Galaxy VII	-	-	CSG	ELA2	-	-	36271	-	-
1992-084	2448958.45	1992 Dec 1 2248:00	Ariane 42P	42P+	V55 L427a	Superbird A1	Superbird A1	-	-	CSG	ELA2	-	-	36204	-	-
1993-031	2449119.54	1993 May 12 0056:32	Ariane 42L	42L	V56 L428c	Astra 1C/Arsene	Astra 1C	-	-	CSG	ELA2	-	-	37623	-	-
1993-039	2449163.51	1993 Jun 25 0018:00	Ariane 42P	42P+	V57 L430b	Galaxy 4H	Galaxy IVH	-	-	CSG	ELA2	-	-	38200	-	-
1993-048	2449191.46	1993 Jul 22 2258:55	Ariane 44L	44L+	V58 L429c	Hisp. 1B/Insat 2B	Hispasat 1B	-	-	CSG	ELA2	-	-	36707	-	-
1993-061	2449256.57	1993 Sep 26 0145:00	Ariane 40	40	V59 L431	SPOT 3/ASAP 4/Stella	SPOT 3	-	-	CSG	ELA2	-	-	1055	-	-
1993-066	2449282.78	1993 Oct 22 0646:00	Ariane 44LP	44LP	V60 L425a?	Intelsat 701	INTELSAT 701	-	-	CSG	ELA2	-	-	38541	-	-
1993-073	2449311.55	1993 Nov 20 0117:00	Ariane 44LP	44LP+	V61 L433a	Solid. 1/Meteosat 6	Solidaridad 1	-	-	CSG	ELA2	-	-	36868	-	-
1993-078	2449339.56	1993 Dec 18 0127:00	Ariane 44L	44L+	V62 L434a	DBS 1/Thaicom 1	DBS 1	-	-	CSG	ELA2	-	-	36380	-	-
1994-F01	2449377.40	1994 Jan 24 2137:00	Ariane 44LP	44LP+	V63 L435b	Eut. 2F5/Turksat 1A	Eutelsat 2 F5	-	-	CSG	ELA2	-	-	220	-	-
1994-034	2449520.80	1994 Jun 17 0707:19	Ariane 44LP	44LP+	V64 L436	Intelsat 702/ASAP 5	INTELSAT 702	-	-	CSG	ELA2	-	-	36863	-	-
1994-040	2449542.46	1994 Jul 8 2305:32	Ariane 44L	44L+	V65 L437b	BS-3N/PAS 2	Panamsat K1	-	-	CSG	ELA2	-	-	36832	-	-
1994-049	2449575.46	1994 Aug 10 2305:24	Ariane 44LP	44LP+	V66 L438a	Turksat 1B/Bras. B1	Brasilsat B1	-	-	CSG	ELA2	-	-	37220	-	-
1994-058	2449604.52	1994 Sep 9 0029:44	Ariane 42L	42L+	V67 L429a?	Telstar 402	Telstar 402	-	-	CSG	ELA2	-	-	35718	-	-
1994-065	2449633.55	1994 Oct 8 0107:00	Ariane 44L	44L+	V68 L440	Thaicom 2/Solid. 2	Solidaridad 2	-	-	CSG	ELA2	-	-	37081	-	-
1994-070	2449657.53	1994 Nov 1 0037:00	Ariane 42P	42P+	V69 L441	Astra 1D	Astra 1D	-	-	CSG	ELA2	-	-	36443	-	-
1994-F04	2449688.46	1994 Dec 1 2257:51	Ariane 42P	42P-3	V70 L442a	PAS 3	Panamsat K2	-	-	CSG	ELA2	-	-	100	-	-
1995-016	2449805.47	1995 Mar 28 2314:19	Ariane 44LP	44LP+	V71 L443a	Hot Bird 1/Bras. B2	Brasilsat B2	-	-	CSG	ELA2	-	-	36840	-	-
1995-021	2449828.57	1995 Apr 21 0144:02	Ariane 40	40+	V72 L444	ERS 2	ERS-2	-	-	CSG	ELA2	-	-	793	-	-
1995-023	2449854.77	1995 May 17 0634:00	Ariane 44LP	44LP-3	V73 L445	Intelsat 706	INTELSAT 706	-	-	CSG	ELA2	-	-	36216	-	-
1995-029	2449878.52	1995 Jun 10 0024:00	Ariane 42P	42P-3	V74 L446b	DBS 3	DBS 3	-	-	CSG	ELA2	-	-	36206	-	-
1995-033	2449906.18	1995 Jul 7 1623:34	Ariane 40	40-3	V75 L447	Helios 1A/ASAP 6	Helios 1A	-	-	CSG	ELA2	-	-	696	-	-
1995-040	2449933.46	1995 Aug 3 2258:00	Ariane 42L	42L-3	V76 L448b	PAS 4	Panamsat K3	-	-	CSG	ELA2	-	-	36917	-	-
1995-044	2449958.78	1995 Aug 29 0641:00	Ariane 44P	44P-3	V77 L449b	N-Star a	N-STAR a	-	-	CSG	ELA2	-	-	37193	-	-
1995-049	2449984.50	1995 Sep 24 0006:00	Ariane 42L	42L-3	V78 L450b	Telstar 402R	Telstar 402R	-	-	CSG	ELA2	-	-	36916	-	-
1995-055	2450009.53	1995 Oct 19 0038:00	Ariane 42L	42L-3	V79 L451c	Astra 1E	Astra 1E	-	-	CSG	ELA2	-	-	38629	-	-
1995-062	2450038.56	1995 Nov 17 0120:00	Ariane 44P	44P-3	V80 L452b	ISO	ISO	-	-	CSG	ELA2	-	-	73976	-	-
1995-067	2450058.47	1995 Dec 6 2323:16	Ariane 44L	44L-3	V81 L453	Insat 2C/Telecom 2C	Telecom 2C	-	-	CSG	ELA2	-	-	37178	-	-
1996-002	2450095.47	1996 Jan 12 2310:00	Ariane 44L	44L-3	V82 L454	Measat 1/PAS 3R	Panamsat K4	-	-	CSG	ELA2	-	-	37929	-	-
1996-007	2450118.81	1996 Feb 5 0719:38	Ariane 44P	44P-3	V83 L455	N-Star b	N-Star b	-	-	CSG	ELA2	-	-	37160	-	-
1996-015	2450156.80	1996 Mar 14 0711:01	Ariane 44LP	44LP-3	V84 L456	Intelsat 707	INTELSAT 707	-	-	CSG	ELA2	-	-	36878	-	-
1996-022	2450194.44	1996 Apr 20 2236:00	Ariane 42P	42P-3	V85 L457	MSAT-1	MSAT-1	-	-	CSG	ELA2	-	-	36345	-	-
1996-030	2450219.58	1996 May 16 0156:29	Ariane 44L	44L-3	V86 L458a	Palapa C2/Amos 1	Palapa C2	-	-	CSG	ELA2	-	-	36756	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1996-035	2450249.79	1996 Jun 15 0655:09	Ariane 44P	44P-3	V87 L459a	Intelsat 709	INTELSAT 709	-	-	CSG	ELA2	-	-	37503	-	-
1996-040	2450274.43	1996 Jul 9 2224:55	Ariane 44L	44L-3	V89 L460a	Turksat 1C/Arab. 2A	Arabsat 2A	-	-	CSG	ELA2	-	-	37134	-	-
1996-044	2450304.45	1996 Aug 8 2249:00	Ariane 44L	44L-3	V90 L461a	Italsat 2/Telecom 2D	Italsat F2	-	-	CSG	ELA2	-	-	36877	-	-
1996-055	2450337.50	1996 Sep 11 0000:59	Ariane 42P	42P-3	V91 L462	Echostar 2	Echostar II	-	-	CSG	ELA2	-	-	36695	-	-
1996-063	2450401.44	1996 Nov 13 2240:00	Ariane 44L	44L-3	V92 L463a	Arab. 2B/Measat 2	Arabsat 2B	-	-	CSG	ELA2	-	-	36451	-	-
1997-002	2450479.42	1997 Jan 30 2204:00	Ariane 44L	44L-3	V93 L465b	Nahuel 1A/GE-2	GE 2	-	-	CSG	ELA2	-	-	36078	-	-
1997-009	2450508.55	1997 Mar 1 0107:42	Ariane 44P	44P-3	V94 L464c	Intelsat 801	INTELSAT 801	-	-	CSG	ELA2	-	-	37204	-	-
1997-016	2450555.46	1997 Apr 16 2308:44	Ariane 44LP	44LP-3	V95 L467d	Thaicom 3/BSAT 1a	Thaicom 3	-	-	CSG	ELA2	-	-	36624	-	-
1997-027	2450603.47	1997 Jun 3 2320:06	Ariane 44L	44L-3	V97 L468b	Inmarsat 3/Insat 2D	INMARSAT III F4	-	-	CSG	ELA2	-	-	36179	-	-
1997-031	2450625.49	1997 Jun 25 2344:00	Ariane 44P	44P-3	V96 L466b	Intelsat 802	INTELSAT 802	-	-	CSG	ELA2	-	-	36546	-	-
1997-040	2450668.78	1997 Aug 8 0646:00	Ariane 44P	44P-3	V98 L469e	PAS 6	PAS 6	-	-	CSG	ELA2	-	-	40827	-	-
1997-049	2450694.43	1997 Sep 2 2221:07	Ariane 44LP	44LP-3	V99 L470g	Hot Bird 3/MTP	Eutelsat HB3	-	-	CSG	ELA2	-	-	43527	-	-
1997-053	2450715.50	1997 Sep 23 2358	Ariane 42L	42L-3	V100 L471e	Intelsat 803	INTELSAT 803	-	-	CSG	ELA2	-	-	36143	-	-
1997-071	2450765.41	1997 Nov 12 2148	Ariane 44L	44L-3	V102 L472d	Sirius 2/Cakrawarta	Sirius 2	-	-	CSG	ELA2	-	-	36789	-	-
1997-075	2450785.45	1997 Dec 2 2252	Ariane 44P	44P-3	V103 L473	JCSAT-5/Equator-S	JCSAT 5	-	-	CSG	ELA2	-	-	67310	-	-
1997-083	2450804.51	1997 Dec 22 0016	Ariane 42L	42L-3	V104 L474b	Intelsat 804	INTELSAT 804	-	-	CSG	ELA2	-	-	37520	-	-
1998-006	2450849.48	1998 Feb 4 2329	Ariane 44LP	44LP-3	V105 L475d	Brasil B3/Inmar 3F5	Brasilsat B3	-	-	CSG	ELA2	-	-	37026	-	-
1998-013	2450872.44	1998 Feb 27 2238	Ariane 42P	42P-3	V106 L476c	Hot Bird 4	Eutelsat HB4	-	-	CSG	ELA2	-	-	37369	-	-
1998-017	2450896.57	1998 Mar 24 0146	Ariane 40	40-3	V107 L477b	SPOT 4	SPOT-4	-	-	CSG	ELA2	-	-	839	-	-
1998-024	2450932.45	1998 Apr 28 2253	Ariane 44P	44P-3	V108 L478b	Nilesat 101/BSAT 1b	Nilesat 101	-	-	CSG	ELA2	-	-	36934	-	-
1998-049	2451051.46	1998 Aug 25 2307	Ariane 44P	44P-3	V109 L479c	ST-1	Singapore-Taiwan 1	-	-	CSG	ELA2	-	-	37151	-	-
1998-052	2451072.77	1998 Sep 16 0631	Ariane 44LP	44LP-3	V110 L480f	PAS 7	PAS 7	-	-	CSG	ELA2	-	-	57296	-	-
1998-056	2451092.45	1998 Oct 5 2251	Ariane 44L	44L-3	V111 L481f	Eutelsat W2/Sirius 3	Eutelsat W2	-	-	CSG	ELA2	-	-	37072	-	-
1998-063	2451115.43	1998 Oct 28 2215:00	Ariane 44L	44L-3	V113 L482d	Afristar/GE 5	Afristar	-	-	CSG	ELA2	-	-	36177	-	-
1998-070	2451153.53	1998 Dec 6 0043	Ariane 42L	42L-3	V114 L483c	Satmex 5	Satmex 5	-	-	CSG	ELA2	-	-	36268	-	-
1998-075	2451169.55	1998 Dec 22 0108	Ariane 42L	42L-3	V115 L484d	PAS 6B	PAS 6B	-	-	CSG	ELA2	-	-	38407	-	-
1999-009	2451236.45	1999 Feb 26 2244	Ariane 44L	44L-3	V116 L485	Arabsat 3A/Skynet 4E	Arabsat 3A	-	-	CSG	ELA2	-	-	44538	-	-
1999-016	2451271.42	1999 Apr 2 2203	Ariane 42P	42P-3	V117 L486b	Insat 2E	Insat 2E	-	-	CSG	ELA2	-	-	37199	-	-
1999-042	2451403.45	1999 Aug 12 2252	Ariane 42P	42P-3	V118 L487f	Telkom 1	Telkom 1	-	-	CSG	ELA2	-	-	37214	-	-
1999-046	2451426.44	1999 Sep 4 2234	Ariane 42P	42P-3	V120 L488d	Koreasat 3	Koreasat 3	-	-	CSG	ELA2	-	-	37569	-	-
1999-052	2451446.77	1999 Sep 25 0629	Ariane 44LP	44LP-3	V121 L489d	Telstar 7	Telstar 7	-	-	CSG	ELA2	-	-	64272	-	-
1999-059	2451470.77	1999 Oct 19 0622	Ariane 44LP	44LP-3	V122 L490c	Orion 2	Orion 2	-	-	CSG	ELA2	-	-	61538	-	-
1999-060	2451496.45	1999 Nov 13 2254	Ariane 44LP	44LP-3	V123 L491a	GE 4	GE 4	-	-	CSG	ELA2	-	-	37543	-	-
1999-064	2451516.18	1999 Dec 3 1622:46	Ariane 40	40-3	V124 L492	Helios 1B/Clementine	Helios 1B	-	-	CSG	ELA2	-	-	687	-	-
1999-071	2451534.53	1999 Dec 22 0050	Ariane 44L	44L-3	V125 L493	Galaxy 11	Galaxy 11	-	-	CSG	ELA2	-	-	39873	-	-
2000-002	2451568.54	2000 Jan 25 0104	Ariane 42L	42L-3	V126 L494	Galaxy 10R	Galaxy XR	-	-	CSG	ELA2	-	-	36008	-	-
2000-012	2451592.54	2000 Feb 18 0104	Ariane 44LP	44LP-3	V127 L495	Superbird 4	Superbird 4	-	-	CSG	ELA2	-	-	37071	-	-
2000-020	2451653.52	2000 Apr 19 0029	Ariane 42L	42L-3	V129 L496	Galaxy 4R	Galaxy IVR	-	-	CSG	ELA2	-	-	36015	-	-
2000-046	2451774.47	2000 Aug 17 2316:00	Ariane 44LP	44LP-3	V131 L4097	Brasil B4/Nilest 102	Brasilsat B4	-	-	CSG	ELA2	-	-	36943	-	-
2000-052	2451794.44	2000 Sep 6 2233	Ariane 44P	44P-3	V132 L4098	Eutelsat W1	Eutelsat W1	-	-	CSG	ELA2	-	-	37265	-	-
2000-060	2451824.46	2000 Oct 6 2300	Ariane 42L	42L-3	V133 L4099	N-SAT-110	Superbird 5	-	-	CSG	ELA2	-	-	37012	-	-
2000-068	2451846.75	2000 Oct 29 0559	Ariane 44LP	44LP-3	V134 L4100	Europe*Star F1	EuropeStar FM1	-	-	CSG	ELA2	-	-	38831	-	-
2000-076	2451870.50	2000 Nov 21 2356	Ariane 44L	44L-3	V136 L4102	Anik F1	Anik F1	-	-	CSG	ELA2	-	-	41505	-	-
2001-002	2451920.42	2001 Jan 10 2209	Ariane 44P	44P-3	V137 L4101	Turksat 2A	Eurasiasat 1	-	-	CSG	ELA2	-	-	37239	-	-
2001-005	2451948.46	2001 Feb 7 2305:10	Ariane 44L	44L-3	V139 L4103	Sicral/Skynet 4F	SICRAL 1A	-	-	CSG	ELA2	-	-	37401	-	-
2001-024	2452069.78	2001 Jun 9 0645	Ariane 44L	44L-3	V141 L4104	Intelsat 901	IS-901	-	-	CSG	ELA2	-	-	37530	-	-
2001-039	2452151.78	2001 Aug 30 0646	Ariane 44L	44L-3	V143 L4105	Intelsat 902	INTELSAT 902	-	-	CSG	ELA2	-	-	37138	-	-
2001-042	2452178.47	2001 Sep 25 2321	Ariane 44P	44P-3	V144 L4106	Atlantic Bird 2	Atlantic Bird 2	-	-	CSG	ELA2	-	-	44651	-	-
2001-052	2452240.52	2001 Nov 27 0035	Ariane 44LP	44LP-3	V146 L4107	DirecTV-4S	DirecTV-4S	-	-	CSG	ELA2	-	-	37197	-	-
2002-002	2452298.49	2002 Jan 23 2346:57	Ariane 42L	42L-3	V147 L4108	Insat 3C	Insat 3C	-	-	CSG	ELA2	-	-	36846	-	-
2002-007	2452328.79	2002 Feb 23 0659	Ariane 44L	44L-3	V148 L4109	Intelsat 904	INTELSAT 904	-	-	CSG	ELA2	-	-	37316	-	-
2002-015	2452362.56	2002 Mar 29 0129	Ariane 44L	44L-3	V149 L4110	Astra 3A/JCSAT-8	JCSAT-8	-	-	CSG	ELA2	-	-	36566	-	-
2002-019	2452381.46	2002 Apr 16 2302	Ariane 44L	44L-3	V150 L4111	NSS 7	NSS 7	-	-	CSG	ELA2	-	-	37295	-	-
2002-021	2452398.56	2002 May 4 0131:46	Ariane 42P	42P-3	V151 L4112	SPOT 5	SPOT 5	-	-	CSG	ELA2	-	-	833	-	-
2002-027	2452430.78	2002 Jun 5 0644	Ariane 44L	44L-3	V152 L4113	Intelsat 905	INTELSAT 905	-	-	CSG	ELA2	-	-	37191	-	-
2002-041	2452523.78	2002 Sep 6 0644	Ariane 44L	44L-3	V154 L4114	Intelsat 906	INTELSAT 906	-	-	CSG	ELA2	-	-	37245	-	-
2002-057	2452626.46	2002 Dec 17 2304	Ariane 44L	44L-3	V156 L4115	NSS 6	NSS 6	-	-	CSG	ELA2	-	-	37206	-	-
2003-007	2452685.79	2003 Feb 15 0700	Ariane 44L	44L-3	V159 L4116	Intelsat 907	INTELSAT 907	-	-	CSG	ELA2	-	-	37110	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-104	2444232.22	1979 Dec 24 1714:38	Ariane 1	-	L01	1.602	ESA	OS	-	G	Sat GTO 0	CNES32	-	-
1980-F01	2444383.10	1980 May 23 1429:39	Ariane 1	-	L02	1.620	ESA	OF	S1P	G	Sat GTO 0	CNES32	-	Combustion instability
1981-057	2444775.02	1981 Jun 19 1232:59	Ariane 1	-	L03	1.636	ESA	OS	-	G	Sat GTO 0	CNES32	Desobeau	-
1981-122	2444958.56	1981 Dec 20 0129:00	Ariane 1	-	L04	1.675	ESA	OS	-	G	Sat GTO 0	CNES32	-	-
1982-F06	2445221.59	1982 Sep 9 0212:00	Ariane 1	-	L5	1.470	ESA	OF	S3P	G	Sat GTO 0 1	Desobeau	-	Turbopump fail
1983-058	2445502.00	1983 Jun 16 1159:03	Ariane 1	-	L6	1.292	ESA	OS	-	G	Sat GTO 0	Desobeau	CNES32	-
1983-105	2445626.53	1983 Oct 19 0045:36	Ariane 1	-	L7	1.870	ESA	OS	-	G/OG	Sat GTO 0	Desobeau	CNES32	-
1984-023	2445764.53	1984 Mar 5 0050:03	Ariane 1	-	L8	1.870	ESA	OS	-	G/OG	Sat GTO 0	Desobeau	CNES32	-
1984-049	2445843.56	1984 May 23 0133:29	Ariane 1	-	V9 L9	1.196	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1984-081	2445917.06	1984 Aug 4 1332:54	Ariane 3	-	V10 L12	2.377	AE	OS	-	CO/G	Sat GTO 0 1	CNES32	-	-
1984-114	2446014.55	1984 Nov 10 0114:18	Ariane 3	-	V11 L13	2.395	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1985-015	2446105.47	1985 Feb 8 2322:00	Ariane 3	-	V12 L14	2.490	AE	OS	-	CO/OG	Sat GTO 0 1	CNES32	-	-
1985-035	2446193.55	1985 May 8 0115:38	Ariane 3	-	V13 L15	2.565	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1985-056	2446248.97	1985 Jul 2 1123:13	Ariane 1	-	V14 L10	0.958	AE	DS	-	CO/G	Sat GTO 0	CNES32	-	-
1985-F03	2446321.48	1985 Sep 12 2326:00	Ariane 3	-	V15 L16	2.217	AE	OF	S3I	CO	Sat GTO 0 1	CNES32	-	S3 no full thrust
1986-019	2446483.57	1986 Feb 22 0144:35	Ariane 1	-	V16 L11	2.448	AE	OS	-	CO/G	Sat SSO 0 1	CNES32	-	-
1986-026	2446518.48	1986 Mar 28 2330:00	Ariane 3	-	V17 L17	2.580	AE	OS	-	CO/OG+C	Sat GTO 0 1	CNES32	-	-
1986-F05	2446581.54	1986 May 31 0053:03	Ariane 2	-	V18 L18	2.045	AE	OF	S3I	CO/OG	Sat GTO 0	CNES32	-	S3 ft ignite
1987-078	2447054.53	1987 Sep 16 0045:28	Ariane 3	-	V19 L19	2.564	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1987-095	2447120.60	1987 Nov 21 0219:00	Ariane 2	-	V20 L20	2.080	AE	OS	-	CO/G	Sat GTO 0	CNES32	-	-
1988-018	2447232.48	1988 Mar 11 2328:00	Ariane 3	-	V21 L21	2.576	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1988-040	2447299.50	1988 May 17 2358:00	Ariane 2	-	V23 L22	1.978	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1988-051	2447327.97	1988 Jun 15 1119:01	Ariane 44LP	44LP	V22 L401	2.306	AE	OS	-	CO/G+C	Sat GTO 0 2	CNES32	-	-
1988-063	2447364.47	1988 Jul 21 2312:00	Ariane 3	-	V24 L23	2.515	AE	OS	-	CO/OG+C	Sat GTO 0 1	CNES32	-	-
1988-081	2447413.46	1988 Sep 8 2300:00	Ariane 3	-	V25 L24	2.639	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1988-098	2447462.60	1988 Oct 28 0217:00	Ariane 2	-	V26 L25	2.077	AE	OS	-	CO/G	Sat GTO 0	CNES32	-	-
1988-109	2447506.52	1988 Dec 11 0033:38	Ariane 44LP	44LP	V27 L402	3.413	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1989-006	2447553.56	1989 Jan 27 0121:00	Ariane 2	-	V28 L26	1.981	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1989-020	2447592.48	1989 Mar 6 2329:00	Ariane 44LP	44LP	V29 L403	3.163	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1989-027	2447618.60	1989 Apr 2 0228:00	Ariane 2	-	V30 L27	2.078	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1989-041	2447683.44	1989 Jun 5 2237:18	Ariane 44L	44L	V31 L404	4.104	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1989-053	2447719.51	1989 Jul 12 0014:00	Ariane 3	-	V32 L28	2.595	AE	OS	-	CO/G	Sat GTO 0	CNES32	-	-
1989-062	2447747.48	1989 Aug 8 2325:53	Ariane 44LP	44LP	V33 L405	3.474	AE	OS	-	CO/G	Sat GTO 0 1	CNES32	-	-
1989-087	2447827.46	1989 Oct 27 2305:00	Ariane 44L	44L	V34 L406	4.286	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1990-005	2447913.57	1990 Jan 22 0135:27	Ariane 40	40	V35 L408	2.039	AE	OS	-	CO/G	Sat SSO 0	CNES32	-	-
1990-F01	2447945.47	1990 Feb 22 2317:00	Ariane 44L	44L	V36 L407	3.651	AE	OF	S1P	CO	Sat GTO 0 1	CNES32	-	FOD in valve
1990-063	2448097.43	1990 Jul 24 2225:00	Ariane 44L	44L	V37 L409	3.676	AE	OS	-	CO/G	Sat GTO 0 1	CNES32	-	-
1990-079	2448134.45	1990 Aug 30 2246:00	Ariane 44LP	44LP	V38 L410b	3.508	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1990-091	2448177.46	1990 Oct 12 2258:18	Ariane 44L	44L	V39 L411b	3.890	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1990-100	2448216.47	1990 Nov 20 2311:00	Ariane 42P	42P	V40 L412b	2.614	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1991-003	2448272.47	1991 Jan 15 2310:49	Ariane 44L	44L	V41 L413a	3.943	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1991-015	2448318.48	1991 Mar 2 2336:00	Ariane 44LP	44LP	V42 L414	3.481	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1991-026	2448351.48	1991 Apr 4 2333:00	Ariane 44P	44P	V43 L415a	2.950	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1991-050	2448454.57	1991 Jul 17 0146:31	Ariane 40	40	V44 L416a	2.502	AE	OS	-	CO/G	Sat SSO 0	CNES32	-	-
1991-055	2448483.47	1991 Aug 14 2315:13	Ariane 44L	44L	V45 L417	4.296	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1991-067	2448526.49	1991 Sep 26 2343:00	Ariane 44P	44P	V46 L418a	2.933	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1991-075	2448559.46	1991 Oct 29 2308:08	Ariane 44L	44L	V47 L419	4.260	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1991-084	2448607.47	1991 Dec 16 2319:48	Ariane 44L	44L	V48 L420a	3.785	AE	OS	-	CO/G	Sat GTO 0 1	CNES32	-	-
1992-010	2448679.50	1992 Feb 26 2358:10	Ariane 44L	44L	V49 L421b	4.070	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1992-021	2448728.48	1992 Apr 15 2325:27	Ariane 44L	44L+	V50 L422a	3.785	AE	OS	-	CO/G	Sat GTO 0 1	CNES32	-	-
1992-041	2448813.45	1992 Jul 9 2242:19	Ariane 44L	44L	V51 L423c	3.984	AE	OS	-	CO/OG+C	Sat GTO 0 1	CNES32	-	-
1992-052	2448845.46	1992 Aug 10 2308:07	Ariane 42P	42P	V52 L424b	2.500	AE	OS	-	CO/G	Sat LEO 0	CNES32	-	-
1992-060	2448876.46	1992 Sep 10 2304:00	Ariane 44LP	44LP+	V53 L425a	3.769	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1992-072	2448923.51	1992 Oct 28 0015:00	Ariane 42P	42P+	V54 L426a	2.968	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1992-084	2448958.45	1992 Dec 1 2248:00	Ariane 42P	42P+	V55 L427a	2.780	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1993-031	2449119.54	1993 May 12 0056:32	Ariane 42L	42L	V56 L428c	3.004	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1993-039	2449163.51	1993 Jun 25 0018:00	Ariane 42P	42P+	V57 L430b	2.988	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1993-048	2449191.46	1993 Jul 22 2258:55	Ariane 44L	44L+	V58 L429c	4.507	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1993-061	2449256.57	1993 Sep 26 0145:00	Ariane 40	40	V59 L431	2.142	AE	OS	-	CO/OG+C	Sat SSO 0	CNES32	-	-
1993-066	2449282.78	1993 Oct 22 0646:00	Ariane 44LP	44LP	V60 L425a?	3.650	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1993-073	2449311.55	1993 Nov 20 0117:00	Ariane 44LP	44LP+	V61 L433a	3.658	AE	OS	-	CO/G+C	Sat GTO 0 1	CNES32	-	-
1993-078	2449339.56	1993 Dec 18 0127:00	Ariane 44L	44L+	V62 L434a	4.310	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1994-F01	2449377.40	1994 Jan 24 2137:00	Ariane 44LP	44LP+	V63 L435b	3.663	AE	OF	S3P	CO	Sat GTO 0 1	CNES32	-	Turbopump failed
1994-034	2449520.80	1994 Jun 17 0707:19	Ariane 44LP	44LP+	V64 L436	3.798	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1994-040	2449542.46	1994 Jul 8 2305:32	Ariane 44L	44L+	V65 L437b	4.330	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1994-049	2449575.46	1994 Aug 10 2305:24	Ariane 44LP	44LP+	V66 L438a	3.744	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1994-058	2449604.52	1994 Sep 9 0029:44	Ariane 42L	42L+	V67 L429a?	3.331	AE	OS	-	CO	Sat GTO D	CNES32	-	-
1994-065	2449633.55	1994 Oct 8 0107:00	Ariane 44L	44L+	V68 L440	4.226	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1994-070	2449657.53	1994 Nov 1 0037:00	Ariane 42P	42P+	V69 L441	2.924	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1994-F04	2449688.46	1994 Dec 1 2257:51	Ariane 42P	42P-3	V70 L442a	2.985	AE	OF	S3P	CO	Sat GTO 0	CNES32	-	FOD in gas generator
1995-016	2449805.47	1995 Mar 28 2314:19	Ariane 44LP	44LP+	V71 L443a	3.758	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1995-021	2449828.57	1995 Apr 21 0144:02	Ariane 40	40+	V72 L444	2.700	AE	OS	-	CO/G	Sat SSO 0	CNES32	-	-
1995-023	2449854.77	1995 May 17 0634:00	Ariane 44LP	44LP-3	V73 L445	4.180	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1995-029	2449878.52	1995 Jun 10 0024:00	Ariane 42P	42P-3	V74 L446b	2.934	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1995-033	2449906.18	1995 Jul 7 1623:34	Ariane 40	40-3	V75 L447	2.634	AE	OS	-	CO/G	Sat SSO 0	CNES32	-	-
1995-040	2449933.46	1995 Aug 3 2258:00	Ariane 42L	42L-3	V76 L448b	3.043	AE	OS	-	CO	Sat GTO 0	AWST950807-17	CNES32	-
1995-044	2449958.78	1995 Aug 29 0641:00	Ariane 44P	44P-3	V77 L449b	3.410	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1995-049	2449984.50	1995 Sep 24 0006:00	Ariane 42L	42L-3	V78 L450b	3.410	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1995-055	2450009.53	1995 Oct 19 0038:00	Ariane 42L	42L-3	V79 L451c	3.010	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1995-062	2450038.56	1995 Nov 17 0120:00	Ariane 44P	44P-3	V80 L452b	2.558	AE	OS	-	CO/G	Sat STO 0	CNES32	-	-
1995-067	2450058.47	1995 Dec 6 2323:16	Ariane 44L	44L-3	V81 L453	4.703	AE	OS	-	CO/G+OG	Sat GTO 0 1	CNES32	-	-
1996-002	2450095.47	1996 Jan 12 2310:00	Ariane 44L	44L-3	V82 L454	4.738	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1996-007	2450118.81	1996 Feb 5 0719:38	Ariane 44P	44P-3	V83 L455	3.420	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1996-015	2450156.80	1996 Mar 14 0711:01	Ariane 44LP	44LP-3	V84 L456	4.180	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1996-022	2450194.44	1996 Apr 20 2236:00	Ariane 42P	42P-3	V85 L457	2.855	AE	OS	-	CO	Sat GTO 0	CNES32	-	-
1996-030	2450219.58	1996 May 16 0156:29	Ariane 44L	44L-3	V86 L458a	4.355	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1996-035	2450249.79	1996 Jun 15 0655:09	Ariane 44P	44P-3	V87 L459a	3.420	AE	OS	-	CO/OG	Sat GTO 0	CNES32	-	-
1996-040	2450274.43	1996 Jul 9 2224:55	Ariane 44L	44L-3	V89 L460a	4.760	AE	OS	-	CO	Sat GTO 0 1	CNES32	-	-
1996-044	2450304.45	1996 Aug 8 2249:00	Ariane 44L	44L-3	V90 L461a	4.650	AE	OS	-	CO/G	Sat GTO 0 1	PR/AE960809	-	-
1996-055	2450337.50	1996 Sep 11 0000:59	Ariane 42P	42P-3	V91 L462	2.865	AE	OS	-	CO	Sat GTO 0	PC/Ransom960912	-	-
1996-063	2450401.44	1996 Nov 13 2240:00	Ariane 44L	44L-3	V92 L463a	4.573	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-002	2450479.42	1997 Jan 30 2204:00	Ariane 44L	44L-3	V93 L465b	4.809	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-009	2450508.55	1997 Mar 1 0107:42	Ariane 44P	44P-3	V94 L464c	3.420	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
1997-016	2450555.46	1997 Apr 16 2308:44	Ariane 44LP	44LP-3	V95 L467d	4.256	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-027	2450603.47	1997 Jun 3 2320:06	Ariane 44L	44L-3	V97 L468b	4.448	AE	OS	-	CO/OG+C	Sat GTO 0 1	Wire	-	-
1997-031	2450625.49	1997 Jun 25 2344:00	Ariane 44P	44P-3	V96 L466b	3.435	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
1997-040	2450668.78	1997 Aug 8 0646:00	Ariane 44P	44P-3	V98 L469e	3.420	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1997-049	2450694.43	1997 Sep 2 2221:07	Ariane 44LP	44LP-3	V99 L470g	3.806	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-053	2450715.50	1997 Sep 23 2358	Ariane 42L	42L-3	V100 L471e	3.455	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
1997-071	2450765.41	1997 Nov 12 2148	Ariane 44L	44L-3	V102 L472d	4.505	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-075	2450785.45	1997 Dec 2 2252	Ariane 44P	44P-3	V103 L473	3.269	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1997-083	2450804.51	1997 Dec 22 0016	Ariane 42L	42L-3	V104 L474b	3.455	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
1998-006	2450849.48	1998 Feb 4 2329	Ariane 44LP	44LP-3	V105 L475d	3.980	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1998-013	2450872.44	1998 Feb 27 2238	Ariane 42P	42P-3	V106 L476c	2.885	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1998-017	2450896.57	1998 Mar 24 0146	Ariane 40	40-3	V107 L477b	2.775	AE	OS	-	CO/G	Sat SSO 0	Wire	-	-
1998-024	2450932.45	1998 Apr 28 2253	Ariane 44P	44P-3	V108 L478b	3.440	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1998-049	2451051.46	1998 Aug 25 2307	Ariane 44P	44P-3	V109 L479c	3.255	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1998-052	2451072.77	1998 Sep 16 0631	Ariane 44LP	44LP-3	V110 L480f	3.838	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1998-056	2451092.45	1998 Oct 5 2251	Ariane 44L	44L-3	V111 L481f	4.755	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
1998-063	2451115.43	1998 Oct 28 2215:00	Ariane 44L	44L-3	V113 L482d	4.858	AE	OS	-	CO	Sat GTO 0 1	JCM-P	-	-
1998-070	2451153.53	1998 Dec 6 0043	Ariane 42L	42L-3	V114 L483c	4.135	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1998-075	2451169.55	1998 Dec 22 0108	Ariane 42L	42L-3	V115 L484d	3.594	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1999-009	2451236.45	1999 Feb 26 2244	Ariane 44L	44L-3	V116 L485	4.598	AE	OS	-	CO/G+C	Sat GTO 0 1	Wire	-	-
1999-016	2451271.42	1999 Apr 2 2203	Ariane 42P	42P-3	V117 L486b	2.550	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
1999-042	2451403.45	1999 Aug 12 2252	Ariane 42P	42P-3	V118 L487f	2.763	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1999-046	2451426.44	1999 Sep 4 2234	Ariane 42P	42P-3	V120 L488d	2.800	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1999-052	2451446.77	1999 Sep 25 0629	Ariane 44LP	44LP-3	V121 L489d	3.790	AE	OS	-	CO	Sat STO 0	Wire	-	-
1999-059	2451470.77	1999 Oct 19 0622	Ariane 44LP	44LP-3	V122 L490c	3.787	AE	OS	-	CO	Sat STO 0	Wire	-	-
1999-060	2451496.45	1999 Nov 13 2254	Ariane 44LP	44LP-3	V123 L491a	3.903	AE	OS	-	CO	Sat GTO 0	Wire	-	-
1999-064	2451516.18	1999 Dec 3 1622:46	Ariane 40	40-3	V124 L492	2.594	AE	OS	-	CO/G	Sat SSO 0	Wire	-	-
1999-071	2451534.53	1999 Dec 22 0050	Ariane 44L	44L-3	V125 L493	4.484	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-002	2451568.54	2000 Jan 25 0104	Ariane 42L	42L-3	V126 L494	3.651	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-012	2451592.54	2000 Feb 18 0104	Ariane 44LP	44LP-3	V127 L495	4.057	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-020	2451653.52	2000 Apr 19 0029	Ariane 42L	42L-3	V129 L496	3.668	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-046	2451774.47	2000 Aug 17 2316:00	Ariane 44LP	44LP-3	V131 L4097	3.950	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
2000-052	2451794.44	2000 Sep 6 2233	Ariane 44P	44P-3	V132 L4098	3.250	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-060	2451824.46	2000 Oct 6 2300	Ariane 42L	42L-3	V133 L4099	3.531	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-068	2451846.75	2000 Oct 29 0559	Ariane 44LP	44LP-3	V134 L4100	4.167	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2000-076	2451870.50	2000 Nov 21 2356	Ariane 44L	44L-3	V136 L4102	4.852	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2001-002	2451920.42	2001 Jan 10 2209	Ariane 44P	44P-3	V137 L4101	3.535	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2001-005	2451948.46	2001 Feb 7 2305:10	Ariane 44L	44L-3	V139 L4103	5.115	AE	OS	-	CO/G	Sat GTO 0 1	Wire	-	-
2001-024	2452069.78	2001 Jun 9 0645	Ariane 44L	44L-3	V141 L4104	4.723	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2001-039	2452151.78	2001 Aug 30 0646	Ariane 44L	44L-3	V143 L4105	4.723	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2001-042	2452178.47	2001 Sep 25 2321	Ariane 44P	44P-3	V144 L4106	3.150	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2001-052	2452240.52	2001 Nov 27 0035	Ariane 44LP	44LP-3	V146 L4107	4.300	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2002-002	2452298.49	2002 Jan 23 2346:57	Ariane 42L	42L-3	V147 L4108	2.750	AE	OS	-	CO/OG	Sat GTO 0	Wire	-	-
2002-007	2452328.79	2002 Feb 23 0659	Ariane 44L	44L-3	V148 L4109	4.680	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2002-015	2452362.56	2002 Mar 29 0129	Ariane 44L	44L-3	V149 L4110	4.495	AE	OS	-	CO	Sat GTO 0 1	Wire	-	-
2002-019	2452381.46	2002 Apr 16 2302	Ariane 44L	44L-3	V150 L4111	4.700	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2002-021	2452398.56	2002 May 4 0131:46	Ariane 42P	42P-3	V151 L4112	3.006	AE	OS	-	CO/G	Sat SSO 0	Wire	-	-
2002-027	2452430.78	2002 Jun 5 0644	Ariane 44L	44L-3	V152 L4113	4.723	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2002-041	2452523.78	2002 Sep 6 0644	Ariane 44L	44L-3	V154 L4114	4.723	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2002-057	2452626.46	2002 Dec 17 2304	Ariane 44L	44L-3	V156 L4115	4.575	AE	OS	-	CO	Sat GTO 0	Wire	-	-
2003-007	2452685.79	2003 Feb 15 0700	Ariane 44L	44L-3	V159 L4116	4.685	AE	OS	-	CO	Sat GTO 0	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1996-F03	2450239.02	1996 Jun 4 1234:06	Ariane 5G	-	V88 (501)	Cluster	Cluster F1-F4	-	-	CSG	ELA3	-	-	4	-	-
1997-066	2450752.07	1997 Oct 30 1343	Ariane 5G	-	V101 (502)	Maqsat	TEAMSAT	-	-	CSG	ELA3	-	-	26780	-	-
1998-059	2451108.19	1998 Oct 21 1637:21	Ariane 5G	-	V112 (503)	ARD/Maqsat-3	Maqsat-3	-	-	CSG	ELA3	-	-	36612	-	-
1999-066	2451523.11	1999 Dec 10 1432:07	Ariane 5G	-	V119 (504a)	XMM	XMM	-	-	CSG	ELA3	-	-	115823	-	-
2000-016	2451625.48	2000 Mar 21 2328:19	Ariane 5G	-	V128 (505)	Asiastar/Insat 3B	Asiastar	-	-	CSG	ELA3	-	-	38731	-	-
2000-054	2451802.45	2000 Sep 14 2254:07	Ariane 5G	-	V130 (506)	Astra 2B/GE 7	Astra 2B	-	-	CSG	ELA3	-	-	36254	-	-
2000-072	2451864.55	2000 Nov 16 0107:07	Ariane 5G	-	V135 (507)	PAS 1R/AMSAT P3D	PAS 1R	-	-	CSG	ELA3	-	-	59257	-	-
2000-081	2451898.52	2000 Dec 20 0026	Ariane 5G	-	V138 (508)	Astra 2D/GE 8/LDREX	Astra 2D	-	-	CSG	ELA3	-	-	36734	-	-
2001-011	2451977.45	2001 Mar 8 2251	Ariane 5G	-	V140 (509)	Eurobird/BSAT-2a	Eurobird	-	-	CSG	ELA3	-	-	36990	-	-
2001-029	2452103.42	2001 Jul 12 2158	Ariane 5G	-	V142 (510)	Artemis/BSAT-2b	Artemis	-	-	CSG	ELA3	-	-	36136	-	-
2002-009	2452334.55	2002 Mar 1 0107:59	Ariane 5G	-	V145 (511)	Envisat	Envisat PPF	-	-	CSG	ELA3	-	-	799	-	-
2002-035	2452461.47	2002 Jul 5 2322:00	Ariane 5G	-	V153 (512)	Stellat/NStar c	Stellat 5	-	-	CSG	ELA3	-	-	36206	-	-
2002-040	2452515.45	2002 Aug 28 2245:00	Ariane 5G	-	V155 (513)	Atl. Bird 1/MSG 1	Atlantic Bird 1	-	-	CSG	ELA3	-	-	37652	-	-
2002-F03	2452620.43	2002 Dec 11 2222	Ariane 5ECA	-	V157 (517)	Hot Bird 7/Stentor	Hot Bird 7	-	-	CSG	ELA3	-	-	150?	-	-
2003-013	2452739.45	2003 Apr 9 2252:19	Ariane 5G	-	V160 (514)	Galaxy 12/Insat 3A	Insat 3A	-	-	CSG	ELA3	-	-	36068	-	-
2003-028	2452802.44	2003 Jun 11 2238:15	Ariane 5G	-	V161 (515)	Optus C1-D/BSAT-2c	BSAT-2c	-	-	CSG	ELA3	-	-	36136	-	-
2003-043	2452910.47	2003 Sep 27 2314:46	Ariane 5G	-	V162 (516)	Insat 3E/e-Bird	e-Bird	-	-	CSG	ELA3	-	-	150000	-	-
2004-006	2453066.80	2004 Mar 2 0717:44	Ariane 5G+	-	V158 (518)	Rosetta	Rosetta	-	-	CSG	ELA3	-	-	150000	-	-
2004-027	2453204.53	2004 Jul 18 0044	Ariane 5G+	-	V163 (519f)	Anik F2	Anik F2	-	-	CSG	ELA3	-	-	39083	-	-
2004-049	2453358.18	2004 Dec 18 1626	Ariane 5G+	-	V165 (520g)	Helios-2A/ASAP	Helios 2A	-	-	CSG	ELA3	-	-	800	-	-
2005-005	2453414.38	2005 Feb 12 2103:01	Ariane 5ECA	-	V164 (521)	XTAR-EUR/Maqsat-B2	XTAR-EUR	-	-	CSG	ELA3	-	-	36140	-	-
2005-028	2453593.85	2005 Aug 11 0820:44	Ariane 5GS	-	V166 (523g)	Thaicom 4	iPSTAR 1	-	-	CSG	ELA3	-	-	36426	-	-
2005-041	2453657.44	2005 Oct 13 2232	Ariane 5GS	-	V168 (524g)	Syracuse 3A/Gal. 15	Galaxy 15	-	-	CSG	ELA3	-	-	36042	-	-
2005-046	2453691.49	2005 Nov 16 2346:00	Ariane 5ECA	-	V167 (522a)	Spaceway 2/Telkom 2	Telkom 2	-	-	CSG	ELA3	-	-	43759	-	-
2005-049	2453726.44	2005 Dec 21 2233	Ariane 5GS	-	V169 (525)	Insat 4A/MSG 2	Insat 4A	-	-	CSG	ELA3	-	-	36690	-	-
2006-007	2453806.44	2006 Mar 11 2233	Ariane 5ECA	-	V170 (527)	Hot Bird 7A/Spainsat	Spainsat	-	-	CSG	ELA3	-	-	36566	-	-
2006-020	2453883.38	2006 May 27 2109	Ariane 5ECA	-	V171 (529)	Satmex 6/Thaicom 5	Satmex 6	-	-	CSG	ELA3	-	-	36324	-	-
2006-033	2453959.43	2006 Aug 11 2215	Ariane 5ECA	-	V172 (531)	JCSAT-10/Syracuse 3B	JCSAT 10	-	-	CSG	ELA3	-	-	38030	-	-
2006-043	2454022.37	2006 Oct 13 2056	Ariane 5ECA	-	V173 (533)	DirecTV-9S/Optus D1	DirecTV 9S	-	-	CSG	ELA3	-	-	36269	-	-
2006-054	2454078.42	2006 Dec 8 2208	Ariane 5ECA	-	V174 (534)	WildBlue 1/AMC 18	WildBlue 1	-	-	CSG	ELA3	-	-	36269	-	-
2007-007	2454171.42	2007 Mar 11 2203	Ariane 5ECA	-	V175 (535)	Skynet 5A/Insat 4B	Insat 4B	-	-	CSG	ELA3	-	-	46360	-	-
2007-016	2454225.44	2007 May 4 2229	Ariane 5ECA	-	V176 (536)	Astra 1L/Galaxy 17	Astra 1L	-	-	CSG	ELA3	-	-	35898	-	-
2007-036	2454327.49	2007 Aug 14 2344	Ariane 5ECA	-	V177 (537)	Spaceway 3/BSat 3A	Spaceway 3	-	-	CSG	ELA3	-	-	45799	-	-
2007-044	2454379.42	2007 Oct 5 2202	Ariane 5GS	-	V178 (526)	IS-11/Optus D2	Optus D2	-	-	CSG	ELA3	-	-	35900	-	-
2007-056	2454419.42	2007 Nov 14 2206	Ariane 5ECA	-	V179 (538)	Skynet 5B/StarOne C1	Star One C1	-	-	CSG	ELA3	-	-	36179	-	-
2007-063	2454456.40	2007 Dec 21 2141:55	Ariane 5GS	-	V180 (530)	Rascom 1/Horizons 2	Rascom 1	-	-	CSG	ELA3	-	-	36199	-	-
2008-008	2454534.67	2008 Mar 9 0403:11	Ariane 5ES/ATV	-	V181 (528)	ATV 1	ATV 1	-	-	CSG	ELA3	-	-	362	-	-
2008-018	2454575.43	2008 Apr 18 2217	Ariane 5ECA	-	V182 (539)	Star One C2/Vinasat	Vinasat	-	-	CSG	ELA3	-	-	38491	-	-
2008-030	2454630.42	2008 Jun 12 2205:09	Ariane 5ECA	-	V183 (540)	Skynet 5C/Turksat 3A	Skynet 5C	-	-	CSG	ELA3	-	-	38565	-	-
2008-034	2454655.41	2008 Jul 7 2147	Ariane 5ECA	-	V184 (541)	Protostar 1/Badr 6	Protostar 1	-	-	CSG	ELA3	-	-	36120	-	-
2008-038	2454693.36	2008 Aug 14 2044	Ariane 5ECA	-	V185 (542)	Superbird 7/AMC 21	Superbird 7	-	-	CSG	ELA3	-	-	35982	-	-
2008-065	2454821.44	2008 Dec 20 2235:14	Ariane 5ECA	-	V186 (543)	Hot Bird 9/Eut. W2M	Hot Bird 9	-	-	CSG	ELA3	-	-	36336	-	-
2009-008	2454875.42	2009 Feb 12 2209	Ariane 5ECA	-	V187 (545)	Hot Bird 10/NSS 9	NSS 9	-	-	CSG	ELA3	-	-	35926	-	-
2009-026	2454966.05	2009 May 14 1312	Ariane 5ECA	-	V188 (546)	Herschel/Planck	Herschel	-	-	CSG	ELA3	-	-	150000	-	-
2009-035	2455014.24	2009 Jul 1 1752	Ariane 5ECA	-	V189 (547)	Terrestar 1	Terrestar 1	-	-	CSG	ELA3	-	-	35901	-	-
2009-044	2455065.42	2009 Aug 21 2209	Ariane 5ECA	-	V190 (548)	JCSAT 12/Optus D3	JCSAT 12	-	-	CSG	ELA3	-	-	36033	-	-
2009-054	2455106.42	2009 Oct 1 2159	Ariane 5ECA	-	V191 (549)	Amazonas 2/COMSATBw1	Amazonas 2	-	-	CSG	ELA3	-	-	35850	-	-
2009-058	2455134.33	2009 Oct 29 2000	Ariane 5ECA	-	V192 (550)	NSS 12/Thor 6	NSS 12	-	-	CSG	ELA3	-	-	35999	-	-
2009-073	2455184.18	2009 Dec 18 1626	Ariane 5GS	-	V193 (532)	Helios IIB	Helios 2B	-	-	CSG	ELA3	-	-	685	-	-
2010-021	2455338.42	2010 May 21 2201	Ariane 5ECA	-	V194 (551)	Astra 3B/COMSATBw-2	Astra 3B	-	-	CSG	ELA3	-	-	36010	-	-
2010-032	2455374.40	2010 Jun 26 2141	Ariane 5ECA	-	V195 (552)	Arabsat5A/COMS-1	COMS-1	-	-	CSG	ELA3	-	-	36700	-	-
2010-037	2455413.37	2010 Aug 4 2059	Ariane 5ECA	-	V196 (554)	Nilesat 201/Rascom	Nilesat 201	-	-	CSG	ELA3	-	-	36174	-	-
2010-056	2455498.41	2010 Oct 28 2151	Ariane 5ECA	-	V197 (555)	Eutelsat W3B/BSAT 3B	Eutelsat W3B	-	-	CSG	ELA3	-	-	36107	-	-
2010-065	2455527.28	2010 Nov 26 1839	Ariane 5ECA	-	V198 (556)	IS-17/Hylas 1	Hylas	-	-	CSG	ELA3	-	-	36283	-	-
2010-070	2455560.39	2010 Dec 29 2127	Ariane 5ECA	-	V199 (557)	Hisp 1E/Koreasat 6	Hispasat 1E	-	-	CSG	ELA3	-	-	35876	-	-
2011-007	2455609.41	2011 Feb 16 2151:02	Ariane 5ES/ATV	-	V200 (544)	ATV 2	ATV 2	-	-	CSG	ELA3	-	-	389	-	-
2011-016	2455674.40	2011 Apr 22 2137	Ariane 5ECA	-	VA201 (558)	Yahsat 1A/New Dawn	Intelsat New Dawn	-	-	CSG	ELA3	-	-	35952	-	-
2011-022	2455702.36	2011 May 20 2038	Ariane 5ECA	-	VA202 (559)	ST-2/GSAT-8	INSAT-4G	-	-	CSG	ELA3	-	-	35905	-	-
2011-041	2455780.45	2011 Aug 6 2252:37	Ariane 5ECA	-	VA203 (560)	Astra 1N/BSAT-3c	Astra 1N	-	-	CSG	ELA3	-	-	36096	-	-
2011-049	2455826.40	2011 Sep 21 2138	Ariane 5ECA	-	VA204 (561)	Arabsat 5C/SES-2	SES-2	-	-	CSG	ELA3	-	-	36081	-	-
2012-010	2456009.69	2012 Mar 23 0434:12	Ariane 5ES/ATV	-	VA205 (553)	ATV 3	ATV 3	-	-	CSG	ELA3	-	-	495	-	-
2012-023	2456063.43	2012 May 15 2213	Ariane 5ECA	-	VA206 (562)	JCSAT 13/Vinasat 2	JCSAT 13	-	-	CSG	ELA3	-	-	53476	-	-
2012-035	2456114.40	2012 Jul 5 2136	Ariane 5ECA	-	VA207 (563)	Echostar 17/MSG 3	Jupiter 1	-	-	CSG	ELA3	-	-	37328	-	-
2012-043	2456142.37	2012 Aug 2 2054	Ariane 5ECA	-	VA208 (564)	IS-20/Hylas 2	Intelsat IS-20	-	-	CSG	ELA3	-	-	35929	-	-
2012-051	2456199.39	2012 Sep 28 2118:07	Ariane 5ECA	-	VA209 (565)	Astra 2F/GSAT-10	Astra 2F	-	-	CSG	ELA3	-	-	35948	-	-
2012-062	2456242.38	2012 Nov 10 2105:07	Ariane 5ECA	-	VA210 (566)	Star One C3/Eut21B	Star One C3	-	-	CSG	ELA3	-	-	35879	-	-
2012-075	2456281.41	2012 Dec 19 2149:07	Ariane 5ECA	-	VA211 (567)	Skynet 5D/Mexsat-B	Skynet 5D	-	-	CSG	ELA3	-	-	35971	-	-
2013-006	2456331.40	2013 Feb 7 2136	Ariane 5ECA	-	VA212 (568)	Amazonas 3/Azerspace	Amazonas 3/Azerspace	-	-	CSG	ELA3	-	-	36590	-	-
2013-027	2456449.41	2013 Jun 5 2152:18	Ariane 5ES/ATV	-	VA213 (592)	ATV 4	ATV 4	-	-	CSG	ELA3	-	-	421	-	-
2013-038	2456499.33	2013 Jul 25 1954:07	Ariane 5ECA	-	VA214 (569)	Alphasat/Insat-3D	Alphasat/Insat-3D	-	-	CSG	ELA3	-	-	36027	-	-
2013-044	2456534.35	2013 Aug 29 2030	Ariane 5ECA	-	VA215 (570)	Eutelsat 25B/GSAT-7	Es'hail/GSAT-7	-	-	CSG	ELA3	-	-	36138	-	-
2014-006	2456695.40	2014 Feb 6 2130	Ariane 5ECA	-	VA217 (572)	ABS-2/Athena-Fidus	ABS-2/Athena-Fidus	-	-	CSG	ELA3	-	-	35972	-	-
2014-011	2456739.42	2014 Mar 22 2204	Ariane 5ECA	-	VA216 (571)	Astra 5B/Amazonas 4A	Astra 5B/Amazonas 4A	-	-	CSG	ELA3	-	-	35878	-	-
2014-044	2456868.49	2014 Jul 29 2347:38	Ariane 5ES/ATV	-	VA219 (593)	ATV 5	ATV 5	-	-	CSG	ELA3	-	-	429	-	-
2014-054	2456912.42	2014 Sep 11 2205	Ariane 5ECA	-	VA218 (573)	Measat 3B/Optus 10	Measat 3B/Optus 10	-	-	CSG	ELA3	-	-	35896	-	-
2014-062	2456947.41	2014 Oct 16 2143:52	Ariane 5ECA	-	VA220 (574)	IS-30/Arsat-1	IS-30/Arsat 1	-	-	CSG	ELA3	-	-	35892	-	-
2014-078	2456998.36	2014 Dec 6 2040	Ariane 5ECA	-	VA221 (575)	DirectTV-14/GSAT-16	DirectTV-14/GSAT-16	-	-	CSG	ELA3	-	-	35953	-	-
2015-022	2457139.33	2015 Apr 26 2000:07	Ariane 5ECA	-	VA222 (576)	Sicral 2/Thor 7	Sicral 2/Thor 7	-	-	CSG	ELA3	-	-	35818	-	-
2015-026	2457170.39	2015 May 27 2116:07	Ariane 5ECA	-	VA223 (577)	DirecTV-15/SKYM-1	DirecTV-15/SKYM-1	-	-	CSG	ELA3	-	-	35958	-	-
2015-034	2457219.40	2015 Jul 15 2142	Ariane 5ECA	-	VA224 (578)	Star One C4/MSG 4	Star One C4/MSG 4	-	-	CSG	ELA3	-	-	36191	-	-
2015-039	2457255.36	2015 Aug 20 2034:08	Ariane 5ECA	-	VA225 (579)	Eutelsat 8WB/IS-34	Eutelsat 8WB/IS-34	-	-	CSG	ELA3	-	-	36002	-	-
2015-054	2457296.35	2015 Sep 30 2030:07	Ariane 5ECA	-	VA226 (580)	Sky Muster/ARSAT-2	NBN Co.1/ARSAT 2	-	-	CSG	ELA3	-	-	36799	-	-
2015-065	2457337.40	2015 Nov 10 2134	Ariane 5ECA	-	VA227 (581)	Arabsat 6B/GSAT 15	Badr 7/GSAT 15	-	-	CSG	ELA3	-	-	35952	-	-
2016-004	2457415.47	2016 Jan 27 2320:07	Ariane 5ECA	-	VA228 (583)	Intelsat 29e	Intelsat 29e	-	-	CSG	ELA3	-	-	35832	-	-
2016-014	2457456.72	2016 Mar 9 0520:07	Ariane 5ECA	-	VA229 (582)	Eutelsat 65 West A	Eutelsat 65 West A	-	-	CSG	ELA3	-	-	36040	-	-
2016-039	2457558.40	2016 Jun 18 2138:39	Ariane 5ECA	-	VA230 (584)	Echostar 18/BRISAT	Echostar 18/BRISAT	-	-	CSG	ELA3	-	-	35876	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2016-053	2457625.43	2016 Aug 24 2216:01	Ariane 5ECA	-	VA232 (586)	IS-33e/IS-36	IS-33e/IS-36	-	-	CSG	ELA3	-	-	36166	-	-
2016-060	2457667.35	2016 Oct 5 2030	Ariane 5ECA	-	VA231 (585)	Sky Muster 2/GSAT-18	Sky Muster/GSAT	-	-	CSG	ELA3	-	-	36043	-	-
2016-069	2457710.05	2016 Nov 17 1306:55	Ariane 5ES	-	VA233 (594)	Galileo FOC-M6	GalileoSat 15-18	-	-	CSG	ELA3	-	-	23640	-	-
2016-082	2457744.35	2016 Dec 21 2030	Ariane 5ECA	-	VA234 (587)	JCSAT-15/Star One D1	JCSAT-15/Star One D1	-	-	CSG	ELA3	-	-	35908	-	-
2017-007	2457799.40	2017 Feb 14 2139	Ariane 5ECA	-	VA235 (588)	SkyBrasil-1/Telkom-3S	SkyBrasil-1/Telkom-3S	-	-	CSG	ELA3	-	-	35931	-	-
2017-023	2457878.41	2017 May 4 2150	Ariane 5ECA	-	VA236 (589)	SDGC/Koreasat 7	SDGC/Koreasat 7	-	-	CSG	ELA3	-	-	35831	-	-
2017-029	2457906.49	2017 Jun 1 2345:07	Ariane 5ECA	-	VA237 (590)	Viasat 2/Eutelsat 172B	Viasat 2/Eutelsat 172B	-	-	CSG	ELA3	-	-	54454	-	-
2017-040	2457933.39	2017 Jun 28 2115	Ariane 5ECA	-	VA238 (591)	HellasSat 3/GSAT 17	HellasSat 3/GSAT 17	-	-	CSG	ELA3	-	-	35916	-	-
2017-059	2458026.41	2017 Sep 29 2156	Ariane 5ECA	-	VA239 (5100)	IS-37e/BSAT-4a	IS-37e/BSAT-4a	-	-	CSG	ELA3	-	-	36279	-	-
2017-079	2458100.27	2017 Dec 12 1836	Ariane 5ES	-	VA240 (595)	Galileo FOC-M7	Galileosat 19-22	-	-	CSG	ELA3	-	-	23316	-	-
2018-012	2458144.43	2018 Jan 25 2220	Ariane 5ECA	-	VA241 (5101)	SES-14/Al Yah 3	SES-14/Al Yah 3	-	-	CSG	ELA3	-	-	53680	-	-
2018-033	2458214.40	2018 Apr 5 2134:07	Ariane 5ECA	-	VA242 (5102)	Superbird 8-DSN1/Hylas 4	Superbird 8/Hylas 4	-	-	CSG	ELA3	-	-	35981	-	-
2018-060	2458324.98	2018 Jul 25 1125:08	Ariane 5ES	-	VA244 (596)	Galileo FOC-M8	Galileosat 23-26	-	-	CSG	ELA3	-	-	23252	-	-
2018-074	2458387.44	2018 Sep 25 2238	Ariane 5ECA	-	VA243 (5103)	Horizons-3e/Azerspace-2	Horizons-3e/Azerspace-2	-	-	CSG	ELA3	-	-	41553	-	-
2018-080	2458411.57	2018 Oct 20 0145:28	Ariane 5ECA	-	VA245 (5105)	BepiColombo	BepiColombo	-	-	CSG	ELA3	-	-	150000	-	-
2018-100	2458457.36	2018 Dec 4 2037:07	Ariane 5ECA	-	VA246 (5104a)	GSAT-11/GEO-Kompsat 2A	GSAT-11/GEO-Kompsat 2A	-	-	CSG	ELA3	-	-	35853	-	-
2019-007	2458520.38	2019 Feb 5 2101:07	Ariane 5ECA	-	VA247 (5106)	SGS-1-HS-4/GSAT-31	SGS-1/GSAT-31	-	-	CSG	ELA3	-	-	35921	-	-
2019-034	2458655.40	2019 Jun 20 2143	Ariane 5ECA	-	VA248 (5107)	T-16/Eutelsat 7C	T-16/Eutelsat 7C	-	-	CSG	ELA3	-	-	49991	-	-
2019-049	2458702.31	2019 Aug 6 1930:07	Ariane 5ECA+	-	VA249 (5109)	EDRS-C/IS-39	EDRS-C/IS-39	-	-	CSG	ELA3	-	-	35961	-	-
2019-080	2458814.39	2019 Nov 26 2123	Ariane 5ECA	-	VA250 (5108)	TIBA-1/Inmarsat GX5	TIBA-1/Inmarsat GX5	-	-	CSG	ELA3	-	-	36008	-	-
2020-005	2458865.38	2020 Jan 16 2105	Ariane 5ECA+	-	VA251 (5110)	Eutelsat Konnect/GSAT-30	Eutelsat Konnect/GSAT-30	-	-	CSG	ELA3	-	-	47468	-	-
2020-013	2458898.43	2020 Feb 18 2218:07	Ariane 5ECA+	-	VA252 (5111)	JCSAT-17/GEO-Kompsat 2B	JCSAT-17/GEO-Kompsat 2B	-	-	CSG	ELA3	-	-	36066	-	-
2020-056	2459077.42	2020 Aug 15 2204:00	Ariane 5ECA+	-	VA253 (5112)	Galaxy 30/MEV2/BSAT-4b	Galaxy 30/MEV2/BSAT-4b	-	-	CSG	ELA3	-	-	43577	-	-
2021-069	2459426.38	2021 Jul 30 2100	Ariane 5ECA+	-	VA254 (5113)	Star One D2/Eutelsat Q	Star One D2/Eutelsat Q	-	-	CSG	ELA3	-	-	35843	-	-
2021-095	2459511.59	2021 Oct 24 0210	Ariane 5ECA+	-	VA255 (5115)	SES-17/Syracuse 4A	SES-17/Syracuse 4A	-	-	CSG	ELA3	-	-	47141	-	-
2021-130	2459574.01	2021 Dec 25 1220:07	Ariane 5ECA+	-	VA256 (5114)	JWST	JWST	-	-	CSG	ELA3	-	-	150000	-	-
2022-067	2459753.41	2022 Jun 22 2150:07	Ariane 5ECA+	-	VA257 (5116)	Measat 3D/GSAT-24	Measat 3D/GSAT-24	-	-	CSG	ELA3	-	-	35825	-	-
2022-110	2459830.41	2022 Sep 7 2145:07	Ariane 5ECA+	-	VA258 (5117)	Eutelsat Konnect VHTS	Eutelsat Konnect VHTS	-	-	CSG	ELA3	-	-	62914	-	-
2022-170	2459927.35	2022 Dec 13 2030:07	Ariane 5ECA+	-	VA259 (5118)	Galaxy 35/36/MTG-I1	Galaxy 35/36/MTG-I1	-	-	CSG	ELA3	-	-	-	-	-
2023-053	2460049.01	2023 Apr 14 1214:29	Ariane 5ECA+	-	VA260 (5120)	JUICE	JUICE	-	-	CSG	ELA3	-	-	-	-	-
2023-093	2460131.42	2023 Jul 5 2200:07	Ariane 5ECA+	-	VA261 (5119)	H2SAT/Syracuse 4B	Heinrich Hertz/Syracuse	-	-	CSG	ELA3	-	-	-	-	-
2024-128	2460501.29	2024 Jul 9 1900:00	Ariane 62	-	VA262 (L6001)	Dummy Payload	Cubesats	-	-	CSG	ELA4	-	-	-	-	-
2025-044	2460741.18	2025 Mar 6 1624	Ariane 62	-	VA263 (L6002)	CSO 3	CSO 3	-	-	CSG	ELA4	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1996-F03	2450239.02	1996 Jun 4 1234:06	Ariane 5G	-	V88 (501)	4.800	ESA	OF	S1G	G	Sat GTO SO	ESAPR	CNES32	Software error
1997-066	2450752.07	1997 Oct 30 1343	Ariane 5G	-	V101 (502)	6.749	ESA	OS75	S1G	G	Sat GTO SO	Wire	-	Roll caused early MECO, low orb
1998-059	2451108.19	1998 Oct 21 1637:21	Ariane 5G	-	V112 (503)	8.924	AE	OS	-	CG	Sat GTO SO	Wire	-	-
1999-066	2451523.11	1999 Dec 10 1432:07	Ariane 5G	-	V119 (504a)	3.764	AE	OS	-	CG	Sat DSO SO	Wire	-	-
2000-016	2451625.48	2000 Mar 21 2328:19	Ariane 5G	-	V128 (505)	5.287	AE	OS	-	CO	Sat GTO SO 1	AE-TV	-	-
2000-054	2451802.45	2000 Sep 14 2254:07	Ariane 5G	-	V130 (506)	5.690	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2000-072	2451864.55	2000 Nov 16 0107:07	Ariane 5G	-	V135 (507)	5.613	AE	OS	-	CO	Sat GTO SO 1	AE-TV	-	-
2000-081	2451898.52	2000 Dec 20 0026	Ariane 5G	-	V138 (508)	4.009	AE	OS	-	CO	Sat GTO SO 1	AE-TV	-	-
2001-011	2451977.45	2001 Mar 8 2251	Ariane 5G	-	V140 (509)	4.807	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2001-029	2452103.42	2001 Jul 12 2158	Ariane 5G	-	V142 (510)	4.843	AE	OF50	S2U	CO	Sat GTO SO 1	Wire	-	Thrust low, early cutoff
2002-009	2452334.55	2002 Mar 1 0107:59	Ariane 5G	-	V145 (511)	8.211	AE	OS	-	CO/G	Sat SSO SO	Wire	-	-
2002-035	2452461.47	2002 Jul 5 2322:00	Ariane 5G	-	V153 (512)	6.135	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2002-040	2452515.45	2002 Aug 28 2245:00	Ariane 5G	-	V155 (513)	5.182	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2002-F03	2452620.43	2002 Dec 11 2222	Ariane 5ECA	-	V157 (517)	5.510	AE	OF	S1P	CO	Sat GTO SO 1	Wire	-	ME nozzle failed, lost control
2003-013	2452739.45	2003 Apr 9 2252:19	Ariane 5G	-	V160 (514)	5.150	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2003-028	2452802.44	2003 Jun 11 2238:15	Ariane 5G	-	V161 (515)	6.440	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2003-043	2452910.47	2003 Sep 27 2314:46	Ariane 5G	-	V162 (516)	5.472	AE	DS	-	CO	Sat GTO SO 2	Wire	-	-
2004-006	2453066.80	2004 Mar 2 0717:44	Ariane 5G+	-	V158 (518)	3.065	AE	DS	-	CO/G	Sat EEO SO	Wire	-	-
2004-027	2453204.53	2004 Jul 18 0044	Ariane 5G+	-	V163 (519f)	5.965	AE	OS	-	CO	Sat GTO SO	Wire	-	-
2004-049	2453358.18	2004 Dec 18 1626	Ariane 5G+	-	V165 (520g)	4.807	AE	OS	-	CO/G	Sat SSO SO	Wire	-	-
2005-005	2453414.38	2005 Feb 12 2103:01	Ariane 5ECA	-	V164 (521)	7.692	ESA	OS	-	G/C	Sat GTO SO 1	Wire	-	-
2005-028	2453593.85	2005 Aug 11 0820:44	Ariane 5GS	-	V166 (523g)	6.480	AE	OS	-	CO	Sat GTO SO	Wire	-	-
2005-041	2453657.44	2005 Oct 13 2232	Ariane 5GS	-	V168 (524g)	6.198	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2005-046	2453691.49	2005 Nov 16 2346:00	Ariane 5ECA	-	V167 (522a)	8.531	ESA	OS	-	G/C	Sat GTO SO 1	Wire	-	-
2005-049	2453726.44	2005 Dec 21 2233	Ariane 5GS	-	V169 (525)	5.575	AE	OS	-	CO/G+OG	Sat GTO SO 1	Wire	-	-
2006-007	2453806.44	2006 Mar 11 2233	Ariane 5ECA	-	V170 (527)	8.223	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2006-020	2453883.38	2006 May 27 2109	Ariane 5ECA	-	V171 (529)	8.662	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2006-033	2453959.43	2006 Aug 11 2215	Ariane 5ECA	-	V172 (531)	8.238	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2006-043	2454022.37	2006 Oct 13 2056	Ariane 5ECA	-	V173 (533)	8.393	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2006-054	2454078.42	2006 Dec 8 2208	Ariane 5ECA	-	V174 (534)	7.256	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2007-007	2454171.42	2007 Mar 11 2203	Ariane 5ECA	-	V175 (535)	8.104	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2007-016	2454225.44	2007 May 4 2229	Ariane 5ECA	-	V176 (536)	9.052	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2007-036	2454327.49	2007 Aug 14 2344	Ariane 5ECA	-	V177 (537)	8.482	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2007-044	2454379.42	2007 Oct 5 2202	Ariane 5GS	-	V178 (526)	5.240	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2007-056	2454419.42	2007 Nov 14 2206	Ariane 5ECA	-	V179 (538)	9.175	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2007-063	2454456.40	2007 Dec 21 2141:55	Ariane 5GS	-	V180 (530)	5.904	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-008	2454534.67	2008 Mar 9 0403:11	Ariane 5ES/ATV	-	V181 (528)	23.957	AE	OS	-	CO/G	Sat ISS SD	Wire	-	-
2008-018	2454575.43	2008 Apr 18 2217	Ariane 5ECA	-	V182 (539)	7.140	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-030	2454630.42	2008 Jun 12 2205:09	Ariane 5ECA	-	V183 (540)	8.085	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-034	2454655.41	2008 Jul 7 2147	Ariane 5ECA	-	V184 (541)	7.980	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-038	2454693.36	2008 Aug 14 2044	Ariane 5ECA	-	V185 (542)	7.733	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-065	2454821.44	2008 Dec 20 2235:14	Ariane 5ECA	-	V186 (543)	8.780	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-008	2454875.42	2009 Feb 12 2209	Ariane 5ECA	-	V187 (545)	7.856	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-026	2454966.05	2009 May 14 1312	Ariane 5ECA	-	V188 (546)	5.763	AE	DS	-	CO/G	Sat EEO SE 1	Wire	-	-
2009-035	2455014.24	2009 Jul 1 1752	Ariane 5ECA	-	V189 (547)	6.910	AE	OS	-	CO	Sat GTO SO	Wire	-	-
2009-044	2455065.42	2009 Aug 21 2209	Ariane 5ECA	-	V190 (548)	6.965	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-054	2455106.42	2009 Oct 1 2159	Ariane 5ECA	-	V191 (549)	8.345	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2009-058	2455134.33	2009 Oct 29 2000	Ariane 5ECA	-	V192 (550)	9.112	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-073	2455184.18	2009 Dec 18 1626	Ariane 5GS	-	V193 (532)	4.200	AE	OS	-	CO/G	Sat SSO SO	Wire	-	-
2010-021	2455338.42	2010 May 21 2201	Ariane 5ECA	-	V194 (551)	8.351	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2010-032	2455374.40	2010 Jun 26 2141	Ariane 5ECA	-	V195 (552)	7.740	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-037	2455413.37	2010 Aug 4 2059	Ariane 5ECA	-	V196 (554)	6.690	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-056	2455498.41	2010 Oct 28 2151	Ariane 5ECA	-	V197 (555)	7.870	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-065	2455527.28	2010 Nov 26 1839	Ariane 5ECA	-	V198 (556)	8.550	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-070	2455560.39	2010 Dec 29 2127	Ariane 5ECA	-	V199 (557)	8.560	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2011-007	2455609.41	2011 Feb 16 2151:02	Ariane 5ES/ATV	-	V200 (544)	26.796	AE	OS	-	CO/G	Sat ISS SD	Wire	-	-
2011-016	2455674.40	2011 Apr 22 2137	Ariane 5ECA	-	VA201 (558)	9.375	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2011-022	2455702.36	2011 May 20 2038	Ariane 5ECA	-	VA202 (559)	8.620	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2011-041	2455780.45	2011 Aug 6 2252:37	Ariane 5ECA	-	VA203 (560)	8.680	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2011-049	2455826.40	2011 Sep 21 2138	Ariane 5ECA	-	VA204 (561)	8.259	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2012-010	2456009.69	2012 Mar 23 0434:12	Ariane 5ES/ATV	-	VA205 (553)	26.309	AE	OS	-	CO/G	Sat ISS SD	Wire	-	-
2012-023	2456063.43	2012 May 15 2213	Ariane 5ECA	-	VA206 (562)	7.932	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2012-035	2456114.40	2012 Jul 5 2136	Ariane 5ECA	-	VA207 (563)	8.575	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2012-043	2456142.37	2012 Aug 2 2054	Ariane 5ECA	-	VA208 (564)	9.845	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2012-051	2456199.39	2012 Sep 28 2118:07	Ariane 5ECA	-	VA209 (565)	9.808	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2012-062	2456242.38	2012 Nov 10 2105:07	Ariane 5ECA	-	VA210 (566)	8.678	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2012-075	2456281.41	2012 Dec 19 2149:07	Ariane 5ECA	-	VA211 (567)	8.218	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2013-006	2456331.40	2013 Feb 7 2136	Ariane 5ECA	-	VA212 (568)	9.943	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2013-027	2456449.41	2013 Jun 5 2152:18	Ariane 5ES/ATV	-	VA213 (592)	26.434	AE	OS	-	CO/G	Sat ISS SD	Wire	-	-
2013-038	2456499.33	2013 Jul 25 1954:07	Ariane 5ECA	-	VA214 (569)	9.180	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2013-044	2456534.35	2013 Aug 29 2030	Ariane 5ECA	-	VA215 (570)	9.400	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2014-006	2456695.40	2014 Feb 6 2130	Ariane 5ECA	-	VA217 (572)	9.850	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2014-011	2456739.42	2014 Mar 22 2204	Ariane 5ECA	-	VA216 (571)	9.102	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2014-044	2456868.49	2014 Jul 29 2347:38	Ariane 5ES/ATV	-	VA219 (593)	26.528	AE	OS	-	CO/G	Sat ISS SD	Wire	-	-
2014-054	2456912.42	2014 Sep 11 2205	Ariane 5ECA	-	VA218 (573)	10.307	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2014-062	2456947.41	2014 Oct 16 2143:52	Ariane 5ECA	-	VA220 (574)	9.743	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2014-078	2456998.36	2014 Dec 6 2040	Ariane 5ECA	-	VA221 (575)	9.920	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2015-022	2457139.33	2015 Apr 26 2000:07	Ariane 5ECA	-	VA222 (576)	9.394	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2015-026	2457170.39	2015 May 27 2116:07	Ariane 5ECA	-	VA223 (577)	9.827	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2015-034	2457219.40	2015 Jul 15 2142	Ariane 5ECA	-	VA224 (578)	8.048	AE	OS	-	CO/C+G	Sat GTO SO 1	Wire	-	-
2015-039	2457255.36	2015 Aug 20 2034:08	Ariane 5ECA	-	VA225 (579)	9.522	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2015-054	2457296.35	2015 Sep 30 2030:07	Ariane 5ECA	-	VA226 (580)	9.857	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2015-065	2457337.40	2015 Nov 10 2134	Ariane 5ECA	-	VA227 (581)	9.404	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2016-004	2457415.47	2016 Jan 27 2320:07	Ariane 5ECA	-	VA228 (583)	6.552	AE	OS	-	CO	Sat GTO SO	Wire	-	-
2016-014	2457456.72	2016 Mar 9 0520:07	Ariane 5ECA	-	VA229 (582)	6.564	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2016-039	2457558.40	2016 Jun 18 2138:39	Ariane 5ECA	-	VA230 (584)	10.280	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2016-053	2457625.43	2016 Aug 24 2216:01	Ariane 5ECA	-	VA232 (586)	10.245	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2016-060	2457667.35	2016 Oct 5 2030	Ariane 5ECA	-	VA231 (585)	10.249	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2016-069	2457710.05	2016 Nov 17 1306:55	Ariane 5ES	-	VA233 (594)	2.952	AE	OS	-	CO/G	Sat MEO SO	Wire	-	-
2016-082	2457744.35	2016 Dec 21 2030	Ariane 5ECA	-	VA234 (587)	10.281	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2017-007	2457799.40	2017 Feb 14 2139	Ariane 5ECA	-	VA235 (588)	10.240	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2017-023	2457878.41	2017 May 4 2150	Ariane 5ECA	-	VA236 (589)	9.675	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2017-029	2457906.49	2017 Jun 1 2345:07	Ariane 5ECA	-	VA237 (590)	10.409	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2017-040	2457933.39	2017 Jun 28 2115	Ariane 5ECA	-	VA238 (591)	9.697	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2017-059	2458026.41	2017 Sep 29 2156	Ariane 5ECA	-	VA239 (5100)	10.498	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2017-079	2458100.27	2017 Dec 12 1836	Ariane 5ES	-	VA240 (595)	2.860	AE	OS	-	CO/G	Sat MEO SO	Wire	-	-
2018-012	2458144.43	2018 Jan 25 2220	Ariane 5ECA	-	VA241 (5101)	8.658	AE	OS65	S1G	CO	Sat GTO SO 1	Wire	-	Software, wrong azimuth
2018-033	2458214.40	2018 Apr 5 2134:07	Ariane 5ECA	-	VA242 (5102)	9.490	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2018-060	2458324.98	2018 Jul 25 1125:08	Ariane 5ES	-	VA244 (596)	2.860	AE	OS	-	CO/G	Sat MEO SO	Wire	-	-
2018-074	2458387.44	2018 Sep 25 2238	Ariane 5ECA	-	VA243 (5103)	10.381	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2018-080	2458411.57	2018 Oct 20 0145:28	Ariane 5ECA	-	VA245 (5105)	4.121	AE	DS	-	CO/G	Sat EEO SE	Wire	-	-
2018-100	2458457.36	2018 Dec 4 2037:07	Ariane 5ECA	-	VA246 (5104a)	9.802	AE	OS	-	CO/OG	Sat GTO SO 1	Wire	-	-
2019-007	2458520.38	2019 Feb 5 2101:07	Ariane 5ECA	-	VA247 (5106)	9.471	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2019-034	2458655.40	2019 Jun 20 2143	Ariane 5ECA	-	VA248 (5107)	10.170	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2019-049	2458702.31	2019 Aug 6 1930:07	Ariane 5ECA+	-	VA249 (5109)	10.226	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2019-080	2458814.39	2019 Nov 26 2123	Ariane 5ECA	-	VA250 (5108)	10.047	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2020-005	2458865.38	2020 Jan 16 2105	Ariane 5ECA+	-	VA251 (5110)	7.416	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2020-013	2458898.43	2020 Feb 18 2218:07	Ariane 5ECA+	-	VA252 (5111)	9.676	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2020-056	2459077.42	2020 Aug 15 2204:00	Ariane 5ECA+	-	VA253 (5112)	9.594	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2021-069	2459426.38	2021 Jul 30 2100	Ariane 5ECA+	-	VA254 (5113)	10.091	AE	OS	-	CO	Sat GTO SO 1	Wire	-	-
2021-095	2459511.59	2021 Oct 24 0210	Ariane 5ECA+	-	VA255 (5115)	10.703	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2021-130	2459574.01	2021 Dec 25 1220:07	Ariane 5ECA+	-	VA256 (5114)	6.161	AE	OS	-	CO/G	Sat EEO SE	Wire	-	-
2022-067	2459753.41	2022 Jun 22 2150:07	Ariane 5ECA+	-	VA257 (5116)	10.269	AE	OS	-	CO/OG+C	Sat GTO SO 1	Wire	-	-
2022-110	2459830.41	2022 Sep 7 2145:07	Ariane 5ECA+	-	VA258 (5117)	6.500	AE	OS	-	CO	Sat STO SO	Wire	-	-
2022-170	2459927.35	2022 Dec 13 2030:07	Ariane 5ECA+	-	VA259 (5118)	10.500	AE	OS	-	CO/G+C	Sat GTO SO 1	Wire	-	-
2023-053	2460049.01	2023 Apr 14 1214:29	Ariane 5ECA+	-	VA260 (5120)	5.963	AE	DS	-	CO/G	Sat EEO E	Wire	-	-
2023-093	2460131.42	2023 Jul 5 2200:07	Ariane 5ECA+	-	VA261 (5119)	7.420	AE	OS	-	CO/G	Sat GTO SO 1	Wire	-	-
2024-128	2460501.29	2024 Jul 9 1900:00	Ariane 62	-	VA262 (L6001)	1.770	ESA	OS85	S2R	G	Sat LEO O	Wire	-	APU failed in coast
2025-044	2460741.18	2025 Mar 6 1624	Ariane 62	-	VA263 (L6002)	3.700	AE	OS	-	G	Sat SSO D	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-S351	2441973.38	1973 Oct 17 2103	Aries	-	NRL NB24.265	Dummy payload	-	-	-	SNI	-	-	-	270	-	-
1974-S223	2442217.09	1974 Jun 18 1415	Aries	-	NRL NB24.268	-	-	-	-	WS	LC36	-	-	300	-	-
1974-A58	2442409.75	1974 Dec 28 0600?	Aries	-	NRL NB24.275	Crab Occultation	-	-	-	WS	LC36	-	-	10	-	-
1975-S248	2442643.03	1975 Aug 18 1245	Aries	-	NASA 12.26GT-IT	IMS Prototype	IMS Test	-	-	WS	LC36	-	-	417	-	-
1976-S155	2442868.35	1976 Mar 30 2027	Aries	-	NASA 24.01IE	DLR K-AR-75	Porcupine 1	IMS F-1	-	ESR	A	-	-	360	-	-
1976-S351	2443128.55	1976 Dec 16 0110	Aries	-	NRL NB24.277	IMS Test Rocket	HI-G Test	-	-	WS	LC36	-	-	512	-	-
1977-S49	2443169.85	1977 Jan 26 0825	Aries	-	NRL NB24.276	Astro 8-1 (A8)	-	-	-	WS	LC36	-	-	347	-	-
1977-S123	2443223.31	1977 Mar 20 1922	Aries	-	NASA 24.02IE	DLR K-AR-82	Porcupine 2	IMS F-2	-	ESR	A	-	-	460	-	-
1977-S279	2443458.67	1977 Nov 11 0400	Aries	-	GL A24.609-01	TEM-1	-	-	-	WS	LC36	-	-	228	-	-
1978-S155	2443671.86	1978 Jun 12 0845	Aries	-	Astro 8-2	Astro 8-2	-	-	-	WS	LC36	-	-	355	-	-
1979-S52	2443901.75	1979 Jan 28 0606	Aries	-	GL A24.7S2-01	SPICE 1	-	-	-	WS	LC36	-	-	249	-	-
1979-S98	2443952.46	1979 Mar 19 2257	Aries	-	NASA 24.05IE	DLR K-AR-92	Porcupine 3	IMS F-3	-	ESR	A	-	-	460	-	-
1979-S109	2443964.44	1979 Mar 31 2229	Aries	-	NASA 24.06IE	DLR K-AR-93	Porcupine 4	IMS F-4	-	ESR	A	-	-	452	-	-
1980-S112	2444381.01	1980 May 21 1208	Aries	-	GL A24.609-02	TEM-2	-	-	-	WS	LC36	-	-	232	-	-
1980-S152	2444469.91	1980 Aug 18 0950	Aries	-	GL A24.6S1-01	ZIP I (BMP)	-	-	-	WS	LC36	-	-	401	-	-
1980-S174	2444502.56	1980 Sep 20 0130	Aries	-	NASA 24.03CH	LCXT	-	-	-	WS	LC36	-	-	309	-	-
1981-S58	2444639.55	1981 Feb 4 0110	Aries	-	GL A24.7S1-01	IRBS (BMP)	-	-	-	WS	LC36	-	-	387	-	-
1981-S101	2444722.47	1981 Apr 27 2315	Aries	-	NASA 24.10UG	JHU Aries-UVT	-	-	-	WS	LC36	-	-	263	-	-
1981-S136	2444816.95	1981 Jul 31 1050	Aries	-	GL A24.6S1-02	ZIP II (BMP)	-	-	-	WS	LC36	-	-	395	-	-
1982-S42	2444992.83	1982 Jan 23 0800:00	Aries	-	GL A24.7S2-02	FIRSSE (BMP)	-	-	-	WS	LC36	-	-	378	-	-
1982-S122	2445118.16	1982 May 28 1547	Aries	-	GL A24.609-03	TEM-3	-	-	-	WS	LC36	-	-	236	-	-
1982-S128	2445138.70	1982 Jun 18 0445	Aries	-	NASA 24.04UG	UCB Aries 1 (1m UVT)	-	-	-	WS	LC36	-	-	247	-	-
1982-S161	2445221.93	1982 Sep 9 1017	Aries	-	DLR M-AR-116	Conestoga 1	-	-	-	MATI	-	-	-	309	-	-
1982-S166	2445227.70	1982 Sep 15 0449	Aries	-	GL A24.7S2-03	SPICE 2	-	-	-	WS	LC36	-	-	359	-	-
1983-S196	2445632.98	1983 Oct 25 1126	Aries	-	GL A24.260	ELC-I (IR limb)	-	-	-	WS	LC36	-	-	282	-	-
1983-S208	2445666.47	1983 Nov 27 2315	Aries	-	NASA 24.15UG	UCB Aries 2	-	-	-	WS	LC36	-	-	300?	-	-
1986-A09	2446666.69	1986 Aug 24 0440	Aries	-	NASA 24.09UH	-	-	-	-	WS	LC36	-	-	23	-	-
1986-S89	2446679.19	1986 Sep 5 1630	Aries	-	SDIO G-2	Delta 180 Target	-	-	-	WS	LC36	-	-	300?	-	-
1987-S185	2447003.50	1987 Jul 27	Aries	-	Queen Match 1	-	-	-	-	SHEM	-	-	-	300	-	-
1988-S107	2447373.50	1988 Aug	Aries	-	Queen Match 2	-	-	(Recovery failed)	-	SHEM	-	-	-	300	-	-
1989-S116	2447707.50	1989 Jul?	Aries	-	Queen Match 3	-	-	-	-	SHEM	-	-	-	300	-	-
1989-S71	2447720.85	1989 Jul 13 0830	Aries	-	GL A24.602	BEAR	-	-	-	WS	LC36	-	-	195	-	-
1990-S83	2448008.79	1990 Apr 27 0700:59	Aries	-	GL A24.570	EXCEDE-3	-	-	-	WS	SULF	-	-	116	-	-
1990-A03	2448098.74	1990 Jul 26 0551	Aries	-	SPEAR-2	-	-	-	-	WS	LC36	-	-	2?	-	-
1991-S52	2448285.27	1991 Jan 28 1824:24	ERIS	-	ERIS 1	-	-	-	-	KMR	Meck	-	-	270	-	-
1991-S110	2448396.81	1991 May 20 0730	Aries	-	NASA 24.11CH	SXT/XOGS	-	-	-	WS	LC36	-	-	300?	-	-
1991-A04	2448488.91	1991 Aug 20 0945:48	Aries	-	Red Tigress 1A	-	-	-	-	CC	LC20	-	-	2	-	-
1991-S163	2448543.93	1991 Oct 14 1017:20	Aries	-	Red Tigress 1B	-	-	-	-	CC	LC20	-	-	320	-	-
1992-S17	2448670.50	1992 Feb 18	Aries	-	LEAP 1	-	-	-	-	WS	LC36	-	-	320	-	-
1992-S30	2448695.28	1992 Mar 13 1836:27	ERIS	-	ERIS 2	-	-	-	-	KMR	Meck	-	-	290	-	-
1992-S56	2448792.96	1992 Jun 19 1101	Aries	-	LEAP 2	-	-	-	-	WS	LC36	-	-	330	-	-
1992-A15	2448917.50	1992 Oct 22	Aries	-	BP-3 (ALV)	SPFE-3/Orbus 1	-	-	-	WI	-	-	-	20?	-	-
1993-S43	2449160.50	1993 Jun 22	Aries	-	LEAP 3	-	-	-	-	WS	LC36	-	-	300?	-	-
1993-A10	2449227.91	1993 Aug 28 0945	Aries	-	NASA 24.17CH	SXT/XOGS	-	-	-	WS	LC36	-	-	8	-	-
1994-S99	2449408.50	1994 Feb 25	Aries	-	LEAP Target	LEAP FTV-TD	-	-	-	WI	-	-	-	300?	-	-
1995-S12	2449760.50	1995 Feb 12	Aries	-	LEAP Target	-	-	-	-	WI	-	-	-	300?	-	-
1995-S15	2449780.93	1995 Mar 4 1015	Aries	-	-	LEAP FTV-3 Target	-	-	-	WI	-	-	-	300?	-	-
1995-S27	2449804.50	1995 Mar 28	Aries	-	-	LEAP FTV-4 Target	-	-	-	WI	-	-	-	300?	-	-
1996-S37	2450273.50	1996 Jul 9	Aries	-	ABIE-TLV	TBM tracking test	-	-	-	WI	-	-	-	300?	-	-
1998-S64	2451138.02	1998 Nov 20 1230	M56A1	-	Aegis ALI Target	Aegis TTV-1	-	-	-	KAU	-	-	-	322	-	-
2001-S04	2451935.66	2001 Jan 26 0357	M56A1	-	Aegis FTR-1A Target	Aegis TTV-2	-	-	-	KAU	-	-	-	300?	-	-
2001-S14	2451991.43	2001 Mar 22 2215	M56A1	-	QRLV-1	-	-	-	-	KLC	LP2	-	-	163	-	-
2002-S04	2452300.58	2002 Jan 26 0200	M56A1	-	Aegis FM-2 Target	Aegis TTV-3	-	-	-	KAU	-	-	-	300?	-	-
2002-S24	2452389.42	2002 Apr 24 2200	M56A1	-	QRLV-2	-	-	-	-	KLC	LP2	-	-	160	-	-
2002-S43	2452439.56	2002 Jun 14 0123	M56A1	-	Aegis FM-3 Target	Aegis TTV-4	-	-	-	KAU	-	-	-	300?	-	-
2002-S71	2452600.52	2002 Nov 22 0030	M56A1	-	Aegis FM-4 Target	Aegis TTV-5	-	-	-	KAU	-	-	-	325	-	-
2003-S25	2452809.47	2003 Jun 18 2315	M56A1	-	Aegis FM-5 Target	Aegis TTV-6	-	-	-	KAU	LC1	-	-	300?	-	-
2003-S50	2452985.26	2003 Dec 11 1810	M56A1	-	Aegis FM-6 Target	Aegis TTV-7	-	-	-	KAU	LC1	-	-	300?	-	-
2005-S07	2453426.38	2005 Feb 24 2103	M56A1	-	Aegis FTM 04-1 Targ.	Aegis TTV-8	-	-	-	KAU	-	-	-	150?	-	-
2006-S69	2454076.50	2006 Dec 7	M56A1	-	Aegis FTM-11 Target	Aegis TTV-9	-	-	-	KAU	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-S351	2441973.38	1973 Oct 17 2103	Aries	-	NRL NB24.265	0.000	NRL	SS	-	NRL/	Test	WDCRF	JBIS28,255	-
1974-S223	2442217.09	1974 Jun 18 1415	Aries	-	NRL NB24.268	0.000	NRL	SS	-	NRL/Arritt	Test/Astron	WDCRF	JBIS28,255	-
1974-A58	2442409.75	1974 Dec 28 0600?	Aries	-	NRL NB24.275	0.000	NRL	SF	S1	NRL/	XR Astron?	JCM-R1	ESA-SP152-189	-
1975-S248	2442643.03	1975 Aug 18 1245	Aries	-	NASA 12.26GT-IT	0.000	GSFC	SS	-	GSFC/Honecker	Test	SRctCon3	ESA-SP152-189	-
1976-S155	2442868.35	1976 Mar 30 2027	Aries	-	NASA 24.01IE	0.000	DLR	SF	S1	MPE/Haerendel	Magnetospheric	Moraba	ESA-SP152-189	-
1976-S351	2443128.55	1976 Dec 16 0110	Aries	-	NRL NB24.277	0.000	NRL	SS	-	NRL/Arritt	Test/Astron	JCM	-	-
1977-S49	2443169.85	1977 Jan 26 0825	Aries	-	NRL NB24.276	0.000	NRL	SS	-	MPE/NRL/Zimmerman,Yentis	XR Astron	ApJ234,415	ESA-SP135	-
1977-S123	2443223.31	1977 Mar 20 1922	Aries	-	NASA 24.02IE	0.000	DLR	SS	-	MPE/Haerendel	Magnetospheric Ba	Moraba	SR19,367	-
1977-S279	2443458.67	1977 Nov 11 0400	Aries	-	GL A24.609-01	0.000	AFGL2	SS	-	AFCRL/McIntyre	ABM Tech IR	AFGL-TR-80-0278	AFCRL	-
1978-S155	2443671.86	1978 Jun 12 0845	Aries	-	Astro 8-2	0.000	DLR	SS	-	MPE/Trumper	XR Astron/Microgravity	AIAA-79-1064	ESA-SP152	-
1979-S52	2443901.75	1979 Jan 28 0606	Aries	-	GL A24.7S2-01	0.000	AFGL2	SS	-	AFCRL/Price	IR Astron	WDC	AFCRL	-
1979-S98	2443952.46	1979 Mar 19 2257	Aries	-	NASA 24.05IE	0.000	DLR	SS	-	MPE/Haerendel	Magnetospheric	Moraba	ESA-SP152	-
1979-S109	2443964.44	1979 Mar 31 2229	Aries	-	NASA 24.06IE	0.000	DLR	SS	-	MPE/Haerendel	Magnetospheric	ESA-SP152	JGR91,A6,7057	-
1980-S112	2444381.01	1980 May 21 1208	Aries	-	GL A24.609-02	0.000	AFGL2	SS	-	AFCRL/McIntyre	ABM Tech IR/UV	WDCRF	AFCRL	-
1980-S152	2444469.91	1980 Aug 18 0950	Aries	-	GL A24.6S1-01	0.000	AFGL2	SS	-	AFCRL/Murdock	IR Astron	AJ90,375	SAMSO	-
1980-S174	2444502.56	1980 Sep 20 0130	Aries	-	NASA 24.03CH	0.000	GSFC	SS	-	LPARL/Catura	XR Astron	WDCRF	-	-
1981-S58	2444639.55	1981 Feb 4 0110	Aries	-	GL A24.7S1-01	0.000	AFGL2	SS	-	AFCRL/Murdock	ABM Tech IR/IR Astron	WDCRF	AFCRL	-
1981-S101	2444722.47	1981 Apr 27 2315	Aries	-	NASA 24.10UG	0.000	GSFC	SS	-	JHU/Fastie,Davidsen	UV Astron	WDCRF	-	-
1981-S136	2444816.95	1981 Jul 31 1050	Aries	-	GL A24.6S1-02	0.000	AFGL2	SS	-	AFCRL/Murdock	IR Astron	AJ90,375	AFCRL	-
1982-S42	2444992.83	1982 Jan 23 0800:00	Aries	-	GL A24.7S2-02	0.000	AFGL2	SS	-	AFCRL/Price	ABM Tech IR/IR Astron	AFGL-TR-83-0055	ApJ275,125	-
1982-S122	2445118.16	1982 May 28 1547	Aries	-	GL A24.609-03	0.000	AFGL2	SS	-	AFCRL/McIntyre	ABM Tech IR	WDCRF	AFCRL	-
1982-S128	2445138.70	1982 Jun 18 0445	Aries	-	NASA 24.04UG	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron	MitAG58,89	AdvSpaRes2,153	-
1982-S161	2445221.93	1982 Sep 9 1017	Aries	-	DLR M-AR-116	0.000	SSI/DLR	SS	-	SSI/	Test	Moraba	-	-
1982-S166	2445227.70	1982 Sep 15 0449	Aries	-	GL A24.7S2-03	0.000	AFGL2	SS	-	AFCRL/Price	IR Astron	WDCRF	AFGL-TR-83-0161	-
1983-S196	2445632.98	1983 Oct 25 1126	Aries	-	GL A24.260	0.000	AFGL2	SS	-	AFCRL/Murdock,Price,De	IR Astron	ADS	AFCRL	-
1983-S208	2445666.47	1983 Nov 27 2315	Aries	-	NASA 24.15UG	0.000	GSFC	SS	-	UCB/Bowyer	UV Astron	WISR	-	-
1986-A09	2446666.69	1986 Aug 24 0440	Aries	-	NASA 24.09UH	0.000	GSFC	SF	S1	PSU/CAL/Garmire,Nov	XR Astron	WISR	NASA-PR86-119	-
1986-S89	2446679.19	1986 Sep 5 1630	Aries	-	SDIO G-2	0.000	SDIO	SS	-	SDIO/	Target	AWST860915-18	-	-
1987-S185	2447003.50	1987 Jul 27	Aries	-	Queen Match 1	0.000	SDIO	SS	-	SDIO/	ABM Tech IR	spacevector.com	-	-
1988-S107	2447373.50	1988 Aug	Aries	-	Queen Match 2	0.000	SDIO	SS	-	SDIO/	ABM Tech IR	Powell	[Not in SVC list]	-
1989-S116	2447707.50	1989 Jul?	Aries	-	Queen Match 3	0.000	SDIO	SS	-	SDIO/	ABM Tech IR	AIAA	[Not in SVC list]	-
1989-S71	2447720.85	1989 Jul 13 0830	Aries	-	GL A24.602	0.000	SDIO	SS	-	LANL/McKenna	Particle Beam	AFCRL	-	-
1990-S83	2448008.79	1990 Apr 27 0700:59	Aries	-	GL A24.570	0.000	SDIO	SS	-	AFCRL/Paulson	Active Plasma	PL-TR-95-2110	SN9000514-8	-
1990-A03	2448098.74	1990 Jul 26 0551	Aries	-	SPEAR-2	0.000	SDIO	SF	S1	USU/Raitt	Tech	DNA-TR-91-132	AWST900730-32 [Not S	-
1991-S52	2448285.27	1991 Jan 28 1824:24	ERIS	-	ERIS 1	0.000	SDC	MS	-	-	Interceptor	Desind	AWST910204-22	-
1991-S110	2448396.81	1991 May 20 0730	Aries	-	NASA 24.11CH	0.000	GSFC	SS	-	LPARL/Catura	XR Astron	WISR	CR-189245	-
1991-A04	2448488.91	1991 Aug 20 0945:48	Aries	-	Red Tigress 1A	0.000	BMDO	SF	S1	SDIO/NAIC/	Target	AWST910826-64	-	-
1991-S163	2448543.93	1991 Oct 14 1017:20	Aries	-	Red Tigress 1B	0.000	BMDO	SS	-	SDIO/NAIC/	Target	Cleary-Cape	AWST911021-15	-
1992-S17	2448670.50	1992 Feb 18	Aries	-	LEAP 1	0.000	SDIO	SS	-	SDIO/	Tech	AWST920921-22	SN920824-6	-
1992-S30	2448695.28	1992 Mar 13 1836:27	ERIS	-	ERIS 2	0.000	SDC	MS	-	-	Interceptor	www.ucsusa.org	AWST920323-20	-
1992-S56	2448792.96	1992 Jun 19 1101	Aries	-	LEAP 2	0.000	SDIO	SS	-	SDIO/	Tech	JCM	AWST920629-66	-
1992-A15	2448917.50	1992 Oct 22	Aries	-	BP-3 (ALV)	0.000	SDIO	SF	U	SDIO/	Target	AWST921109-62	SN921026-4	-
1993-S43	2449160.50	1993 Jun 22	Aries	-	LEAP 3	0.000	BMDO	SS	-	BMDO/	Tech	SN930712-4	-	-
1993-A10	2449227.91	1993 Aug 28 0945	Aries	-	NASA 24.17CH	0.000	GSFC	SF	U	LPARL/Catura	XR Astron	WISR	CR-198856	-
1994-S99	2449408.50	1994 Feb 25	Aries	-	LEAP Target	0.000	BMDO	MS	-	-	Target	LEAP-TD-EA	-	-
1995-S12	2449760.50	1995 Feb 12	Aries	-	LEAP Target	0.000	BMDO	MS	-	-	Target	Powell	-	-
1995-S15	2449780.93	1995 Mar 4 1015	Aries	-	-	0.000	BMDO	MS	-	-	Target	defenselink.mil	SN950403-34	-
1995-S27	2449804.50	1995 Mar 28	Aries	-	-	0.000	BMDO	MS	-	-	Target	SN950403-34	-	-
1996-S37	2450273.50	1996 Jul 9	Aries	-	ABIE-TLV	0.000	AFSMC	MS	-	-	Target	SVC-WWW	- [1995?]	-
1998-S64	2451138.02	1998 Nov 20 1230	M56A1	-	Aegis ALI Target	0.000	SSDC	MS	-	-	Target	SAND99-2278	SMDC-WWW	-
2001-S04	2451935.66	2001 Jan 26 0357	M56A1	-	Aegis FTR-1A Target	0.000	USNAEG	MS	-	-	Target	AWST010205-39	-	-
2001-S14	2451991.43	2001 Mar 22 2215	M56A1	-	QRLV-1	0.000	AFSMC	MS	-	AFSMC/USNAEG/	Target	AFRL_VS-TR-2001-1099	-	-
2002-S04	2452300.58	2002 Jan 26 0200	M56A1	-	Aegis FM-2 Target	0.000	USNAEG	MS	-	-	Target	www.defenselink.mil	-	-
2002-S24	2452389.42	2002 Apr 24 2200	M56A1	-	QRLV-2	0.000	AFSMC	MS	-	AFSMC/USNAEG/	Target	RIgg	www.orbireport.com	-
2002-S43	2452439.56	2002 Jun 14 0123	M56A1	-	Aegis FM-3 Target	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2002-S71	2452600.52	2002 Nov 22 0030	M56A1	-	Aegis FM-4 Target	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2003-S25	2452809.47	2003 Jun 18 2315	M56A1	-	Aegis FM-5 Target	0.000	USNAEG	MS	-	-	Target	SN03623-4	-	-
2003-S50	2452985.26	2003 Dec 11 1810	M56A1	-	Aegis FM-6 Target	0.000	USNAEG	MS	-	-	Target	www.dod.mil	AWST031215-18	-
2005-S07	2453426.38	2005 Feb 24 2103	M56A1	-	Aegis FTM 04-1 Targ.	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2006-S69	2454076.50	2006 Dec 7	M56A1	-	Aegis FTM-11 Target	0.000	USNAEG	MS	-	-	Target	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-S171	2448246.50	1990 Dec 21	Jericho-1	-	-	-	-	-	-	NEGEV	-	-	-	100?	-	-
1991-S164	2448559.50	1991 Oct 30	Jericho-1	-	-	-	-	-	-	NEGEV	-	-	-	100?	-	-
1995-A06	2449928.50	1995 Jul 30	Arrow 2	-	F1	IIT #21	-	-	-	PALB	ARW	-	-	20	-	-
1996-M01	2450133.50	1996 Feb 20?	Arrow 2	-	F2	IIT #22	-	-	-	PALB	ARW	-	-	60?	-	-
1996-M02	2450315.50	1996 Aug 20	Arrow 2	-	F3	AIT #21	-	-	-	PALB	ARW	-	-	60?	-	-
1997-M01	2450518.50	1997 Mar 11	Arrow 2	-	F4	AIT #22	-	-	-	PALB	ARW	-	-	60?	-	-
1997-M03	2450679.85	1997 Aug 19 0829	Arrow 2	-	F5	AIT #23	-	-	-	PALB	ARW	-	-	1?	-	-
1998-M02	2451071.03	1998 Sep 14 1241	Arrow 2	-	F6	AST-3	-	-	-	PALB	ARW	-	-	60?	-	-
1999-M02	2451483.90	1999 Nov 1 0942	Arrow 2	-	F7	AST-4	-	-	-	PALB	ARW	-	-	60?	-	-
2000-S18	2451640.50	2000 Apr 6	Jericho-1	-	-	-	-	-	-	NEGEV?	-	-	-	100	-	-
2000-M43	2451801.88	2000 Sep 14 0905?	Arrow 2	-	F8	AST-5 Black Sparrow	-	-	-	PALB	ARW	-	-	60?	-	-
2001-S39	2452148.95	2001 Aug 27 1050	Arrow 2	-	-	AST-6 Black Sparrow	-	-	-	PALB?	ARW	-	-	100	-	-
2003-A01	2452645.11	2003 Jan 5 1437	Arrow 2	-	F10?	AST-8	-	-	-	PALB	ARW	-	-	30?	-	-
2003-A15	2452989.50	2003 Dec 16	Arrow 2	-	F11	AST-9 Black Sparrow	-	-	-	PALB	ARW	-	-	30?	-	-
2004-A08	2453216.23	2004 Jul 29 1725	Arrow 2	-	F12	USFT-1	CARAVAN-1	-	-	SNI	-	-	-	40	-	-
2004-A09	2453244.23	2004 Aug 26 1730	Arrow 2	-	F13	USFT-2	CARAVAN-1	-	-	SNI	-	-	-	40	-	-
2005-A06	2453706.85	2005 Dec 2 0828	Arrow 2	-	F14 BLK-3	AST-10 Black Sparrow	-	-	-	PALB	ARW	-	-	40?	-	-
2007-A01	2454143.26	2007 Feb 11 1818	Arrow 2	-	M4	AST-11? Black Sparrow	-	-	-	PALB	ARW	-	-	40?	-	-
2007-A02	2454185.50	2007 Mar 26	Arrow 2	-	-	AST-12?	-	-	-	PALB	ARW	-	-	40?	-	-
2009-A01	2454928.50	2009 Apr 7	Arrow 2	-	-	AST-13? Black Sparrow	-	-	-	PALB	ARW	-	-	40?	-	-
2011-A02	2455615.77	2011 Feb 23 0632?	Arrow 2	-	-	USFT-3?	CARAVAN-2	-	-	SNI	-	-	-	40?	-	-
2014-A33	2456909.50	2014 Sep 9	Arrow 2	-	-	AST-14	-	-	-	PALB	ARW	-	-	40?	-	-
2017-A138	2457829.50	2017 Mar 17?	Arrow 2	-	-	Syrian S-200 intercept	-	-	-	PALB?	ARW	-	-	40?	-	-
2020-A17	2459073.50	2020 Aug 12	Arrow 2	-	F29?/F22?	AST	-	-	-	PALB	ARW	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-S171	2448246.50	1990 Dec 21	Jericho-1	-	-	0.000	IDF	MS	-	-	OT	Wire	-	-
1991-S164	2448559.50	1991 Oct 30	Jericho-1	-	-	0.000	IDF	MS	-	-	OT	Wire	-	-
1995-A06	2449928.50	1995 Jul 30	Arrow 2	-	F1	0.000	IAI	MS	-	-	Test	AWST950807-59	-	-
1996-M01	2450133.50	1996 Feb 20?	Arrow 2	-	F2	0.000	IAI	MS	-	-	Test	AWST960226-67	-	-
1996-M02	2450315.50	1996 Aug 20	Arrow 2	-	F3	0.000	IAI	MS	-	-	ATBM Test	AWST960826-73	-	-
1997-M01	2450518.50	1997 Mar 11	Arrow 2	-	F4	0.000	IAI	MS	-	-	ATBM Test	AWST970324-34	-	-
1997-M03	2450679.85	1997 Aug 19 0829	Arrow 2	-	F5	0.000	IAI	MF	U	-	ATBM Test	www.fas.org	AWST970825-16	-
1998-M02	2451071.03	1998 Sep 14 1241	Arrow 2	-	F6	0.000	IAI	MS	-	-	ATBM Test	CNN-WWW	-	-
1999-M02	2451483.90	1999 Nov 1 0942	Arrow 2	-	F7	0.000	IAI	MS	-	-	ATBM Test	Wire	-	-
2000-S18	2451640.50	2000 Apr 6	Jericho-1	-	-	0.000	IDF	MS	-	-	OT	JerPost000503	-	-
2000-M43	2451801.88	2000 Sep 14 0905?	Arrow 2	-	F8	0.000	IAI	MS	-	-	ATBM Test	AWST000918-18	-	-
2001-S39	2452148.95	2001 Aug 27 1050	Arrow 2	-	-	0.000	IAI	MS	-	-	ATBM Test	Wire	-	-
2003-A01	2452645.11	2003 Jan 5 1437	Arrow 2	-	F10?	0.000	IAI	MS	-	-	ATBM Test	www.mfa.gov.il	AWST030113-399	-
2003-A15	2452989.50	2003 Dec 16	Arrow 2	-	F11	0.000	IAI	MS	-	-	ATBM Test	Wire	-	-
2004-A08	2453216.23	2004 Jul 29 1725	Arrow 2	-	F12	0.000	IAI/MDA	MS	-	-	ATBM Test	Wire	AWST040802-19	-
2004-A09	2453244.23	2004 Aug 26 1730	Arrow 2	-	F13	0.000	IAI/MDA	MS	-	-	ATBM Test	Rigg	SN040830-4	-
2005-A06	2453706.85	2005 Dec 2 0828	Arrow 2	-	F14 BLK-3	0.000	IAI	MS	-	-	ATBM Test	Wire	-	-
2007-A01	2454143.26	2007 Feb 11 1818	Arrow 2	-	M4	0.000	IAI	MS	-	-	ATBM Test	Wire	-	-
2007-A02	2454185.50	2007 Mar 26	Arrow 2	-	-	0.000	IAI	MS	-	-	Test	Wire	-	-
2009-A01	2454928.50	2009 Apr 7	Arrow 2	-	-	0.000	IAI	MS	-	-	Test	Wire	-	-
2011-A02	2455615.77	2011 Feb 23 0632?	Arrow 2	-	-	0.000	IAI/MDA	MS	-	-	ATBM Test	mda.mil	-	-
2014-A33	2456909.50	2014 Sep 9	Arrow 2	-	-	0.000	IAI	MS	-	-	Test	mda.mil	-	-
2017-A138	2457829.50	2017 Mar 17?	Arrow 2	-	-	0.000	IAI	MS	-	-	Interceptor	defensenews.com	-	-
2020-A17	2459073.50	2020 Aug 12	Arrow 2	-	F29?/F22?	0.000	IAI	MS	-	-	Test	mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-A38	2455834.50	2011 Q4?	Arrow 3	-	F0	Canister eject test	-	-	-	PALB	-	-	-	0	-	-
2013-S20	2456348.75	2013 Feb 25 0600	Arrow 3	-	-	Hetz-3	-	-	-	PALB	-	-	-	100?	-	-
2014-S01	2456660.75	2014 Jan 3 0600	Arrow 3	-	A3F0-2	Hetz-3	-	-	-	PALB	-	-	-	100?	-	-
2015-S86	2457366.76	2015 Dec 10 0615	Arrow 3	-	-	Hetz-3	-	-	-	PALB	-	-	-	100?	-	-
2018-S12	2458168.48	2018 Feb 18 2330	Arrow 3	-	-	Hetz-3	-	-	-	PALB?	-	-	-	100?	-	-
2019-S05	2458505.50	2019 Jan 22	Arrow 3	-	-	Hetz-3	-	-	-	PALB?	-	-	-	100?	-	-
2019-S37	2458679.50	2019 Jul 15?	Arrow 3	-	-	Hetz-3	CARAVAN-3	-	-	PSCA	LP2	-	-	100?	-	-
2019-S39	2458686.50	2019 Jul 22?	Arrow 3	-	-	Hetz-3	CARAVAN-3	-	-	PSCA	LP2	-	-	100?	-	-
2019-S41	2458691.50	2019 Jul 27?	Arrow 3	-	-	Hetz-3	CARAVAN-3	-	-	PSCA	LP2	-	-	100?	-	-
2022-S03	2459597.50	2022 Jan 18	Arrow 3	-	-	Hetz-3	-	-	-	SDOTM?	ALC1	-	-	100?	-	-
2022-S04	2459597.50	2022 Jan 18	Arrow 3	-	-	Hetz-3	-	-	-	SDOTM?	ALC1	-	-	100?	-	-
2023-S52	2460248.50	2023 Oct 31	Arrow 3	-	-	-	-	-	-	SDOTM?	ALC1	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-A38	2455834.50	2011 Q4?	Arrow 3	-	F0	0.000	IDF	AS	-	-	Test	Wire	-	-
2013-S20	2456348.75	2013 Feb 25 0600	Arrow 3	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2014-S01	2456660.75	2014 Jan 3 0600	Arrow 3	-	A3F0-2	0.000	IDF	MS	-	-	Test	mda.mil	-	-
2015-S86	2457366.76	2015 Dec 10 0615	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	defensenews.com	-	-
2018-S12	2458168.48	2018 Feb 18 2330	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2019-S05	2458505.50	2019 Jan 22	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2019-S37	2458679.50	2019 Jul 15?	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2019-S39	2458686.50	2019 Jul 22?	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2019-S41	2458691.50	2019 Jul 27?	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2022-S03	2459597.50	2022 Jan 18	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2022-S04	2459597.50	2022 Jan 18	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	mda.mil	-	-
2023-S52	2460248.50	2023 Oct 31	Arrow 3	-	-	0.000	IDF	MS	-	-	Interceptor	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A500	2435468.50	1955 Dec 27	Asp	-	1	Redwing prototype	-	-	-	PM	-	-	-	30?	-	-
1955-A492	2435441.50	1955 Dec?	Asp	-	2	-	-	-	-	PM	-	-	-	30?	-	-
1956-A01	2435472.50	1956 Jan	Asp	-	3	-	-	-	-	PM	-	-	-	30?	-	-
1956-A02	2435472.50	1956 Jan	Asp	-	4	-	-	-	-	PM	-	-	-	30?	-	-
1956-A12	2435509.50	1956 Feb 6	Asp	-	1	-	-	-	-	WS	-	-	-	30?	-	-
1956-A16	2435513.50	1956 Feb 10	Asp	-	2	-	-	-	-	WS	-	-	-	30?	-	-
1956-A17	2435513.50	1956 Feb 10	Asp	-	4	-	-	-	-	WS	-	-	-	30?	-	-
1956-A18	2435513.50	1956 Feb 10	Asp	-	5	-	-	-	-	WS	-	-	-	30?	-	-
1956-A19	2435513.50	1956 Feb 10	Asp	-	6	-	-	-	-	WS	-	-	-	30?	-	-
1956-A48	2435593.50	1956 May	Asp	-	-	Redwing 1	-	-	-	BIK	-	-	-	30?	-	-
1956-A49	2435593.50	1956 May?	Asp	-	-	Redwing 2 (to 40)	-	-	-	BIK	-	-	-	30?	-	-
1956-A57	2435624.50	1956 Jun?	Asp	-	-	Redwing 2 (to 40)	-	-	-	BIK	-	-	-	30?	-	-
1956-A66	2435654.50	1956 Jul?	Asp	-	-	Redwing 2 (to 40)	-	-	-	BIK	-	-	-	30?	-	-
1956-A73	2435675.50	1956 Jul 21	Asp	-	-	PMR Redwing 41	-	-	-	BIK	-	-	-	30?	-	-
1957-A31	2435958.50	1957 May	Asp	-	-	Plumbob test	-	-	-	WS	-	-	-	30?	-	-
1957-A32	2435958.50	1957 May?	Asp	-	-	Plumbob test	-	-	-	WS	-	-	-	0?	-	-
1957-A45	2435989.50	1957 Jun?	Asp	-	-	Plumbob test	-	-	-	WS	-	-	-	30?	-	-
1957-A46	2435989.50	1957 Jun	Asp	-	-	Plumbob test	-	-	-	WS	-	-	-	30?	-	-
1957-A47	2435989.50	1957 Jun	Asp	-	-	Plumbob test	-	-	-	NOTS	-	-	-	30?	-	-
1957-A48	2435989.50	1957 Jun	Asp	-	-	Plumbob test	-	-	-	TTR	-	-	-	30?	-	-
1957-A58	2436019.50	1957 Jul	Asp	-	-	Plumbob test	-	-	-	MRNV	-	-	-	30?	-	-
1957-A59	2436019.50	1957 Jul	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A60	2436019.50	1957 Jul?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A68	2436050.50	1957 Aug?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A69	2436050.50	1957 Aug?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A90	2436081.50	1957 Sep?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A91	2436081.50	1957 Sep?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A111	2436111.50	1957 Oct?	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-A112	2436111.50	1957 Oct	Asp	-	-	Plumbob	-	-	-	MRNV	-	-	-	30?	-	-
1957-W01	2435838.50	1957	Asp III	-	-	Test	-	-	-	WS	-	-	-	50?	-	-
1957-W02	2435838.50	1957	Asp III	-	-	Test	-	-	-	WS	-	-	-	50?	-	-
1957-W03	2435838.50	1957	Asp III	4L	-	Test	-	-	-	WS	-	-	-	50?	-	-
1958-W01	2436203.50	1958	Asp III	4L	-	Test	-	-	-	WS	-	-	-	50?	-	-
1958-S115	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S116	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S117	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S118	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S119	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S120	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S121	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S122	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S123	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S124	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S125	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S126	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S127	2436416.50	1958 Aug 1?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S144	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S145	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S146	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S147	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S148	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S149	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S150	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S151	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S152	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S153	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S154	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S155	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S156	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1958-S157	2436427.50	1958 Aug 12?	ASCAMP	-	-	Hardtack	-	-	-	JI	-	-	-	100?	-	-
1959-A01	2436568.50	1959	Asp II	-	-	Cleansweep I	-	-	-	TTR	-	-	-	30?	-	-
1959-A247	2436568.50	1959?	Pogo Hi III	-	-	Pogo Target Test	-	-	-	WS	-	-	-	0?	-	-
1959-M39	2436568.50	1959?	Pogo Hi III	-	-	Pogo Target Test	-	-	-	WS	-	-	-	60	-	-
1959-M40	2436568.50	1959?	Pogo Hi III	-	-	Pogo Hi Type IIIC5a	-	-	-	WS	-	-	-	60	-	-
1960-Y01	2437072.50	1960 May 18	Asp IV	-	-	Test	-	-	-	WI	-	-	-	80?	-	-
1960-Y02	2437073.50	1960 May 19	Asp IV	-	-	Test	-	-	-	WI	-	-	-	80?	-	-
1962-A95	2437829.50	1962 Jun 14	Asp	-	-	Pershing meteo	-	-	-	CC	-	-	-	30?	-	-
1963-A190	2438029.50	1963	Cleansweep III	-	-	LRL Sampling	-	-	B-57C	PM	RW03/21	PM	-	40?	-	-
1964-A202	2438686.50	1964 Oct 18	Cleansweep III	-	-	LRL Sampling	Crosscheck LF1	-	B-57C	JI	RW05/23	JI	LP1	40?	-	-
1964-A203	2438691.50	1964 Oct 23	Cleansweep III	-	-	LRL Sampling	Crosscheck LF2	-	B-57C	JI	RW05/23	JI	LP1	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A500	2435468.50	1955 Dec 27	Asp	-	1	0.000	NRL	SS	-	NRL/SBRC/	Test	Newell	-	-
1955-A492	2435441.50	1955 Dec?	Asp	-	2	0.000	NRL	SS	-	NRL/SBRC/	Test	Newell	-	-
1956-A01	2435472.50	1956 Jan	Asp	-	3	0.000	NRL	SS	-	NRL/SBRC/	Test	Newell	-	-
1956-A02	2435472.50	1956 Jan	Asp	-	4	0.000	NRL	SS	-	NRL/SBRC/	Test	Newell	-	-
1956-A12	2435509.50	1956 Feb 6	Asp	-	1	0.000	NRL	SS	-	NRL/SBRC/	Test	wsmr-history.org	Newell	-
1956-A16	2435513.50	1956 Feb 10	Asp	-	2	0.000	NRL	SS	-	NRL/SBRC/	Test	wsmr-history.org	Newell	-
1956-A17	2435513.50	1956 Feb 10	Asp	-	4	0.000	NRL	SS	-	NRL/SBRC/	Test	wsmr-history.org	Newell	-
1956-A18	2435513.50	1956 Feb 10	Asp	-	5	0.000	NRL	SS	-	NRL/SBRC/	Test	wsmr-history.org	Newell	-
1956-A19	2435513.50	1956 Feb 10	Asp	-	6	0.000	NRL	SS	-	NRL/SBRC/	Test	wsmr-history.org	Newell	-
1956-A48	2435593.50	1956 May	Asp	-	-	0.000	NRL	SS	-	NRL/SBRC/	Aeronomy	Newell	-	-
1956-A49	2435593.50	1956 May?	Asp	-	-	0.000	NRL	SS	-	NRL/SBRC/	Aeronomy	Newell	-	-
1956-A57	2435624.50	1956 Jun?	Asp	-	-	0.000	NRL	SS	-	NRL/SBRC/	Aeronomy	Newell	-	-
1956-A66	2435654.50	1956 Jul?	Asp	-	-	0.000	NRL	SS	-	NRL/SBRC/	Aeronomy	Newell	-	-
1956-A73	2435675.50	1956 Jul 21	Asp	-	-	0.000	NRL	SS	-	NRL/SBRC/	Aeronomy	Newell	-	-
1957-A31	2435958.50	1957 May	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A32	2435958.50	1957 May?	Asp	-	-	0.000	LRL	SF	U	LRL/	Test	Newell	-	-
1957-A45	2435989.50	1957 Jun?	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A46	2435989.50	1957 Jun	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A47	2435989.50	1957 Jun	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A48	2435989.50	1957 Jun	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A58	2436019.50	1957 Jul	Asp	-	-	0.000	LRL	SS	-	LRL/	Test	Newell	-	-
1957-A59	2436019.50	1957 Jul	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A60	2436019.50	1957 Jul?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A68	2436050.50	1957 Aug?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A69	2436050.50	1957 Aug?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A90	2436081.50	1957 Sep?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A91	2436081.50	1957 Sep?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A111	2436111.50	1957 Oct?	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-A112	2436111.50	1957 Oct	Asp	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Newell	-	-
1957-W01	2435838.50	1957	Asp III	-	-	0.000	LRL	SS	-	LRL/	Test	Morrow	-	-
1957-W02	2435838.50	1957	Asp III	-	-	0.000	LRL	SS	-	LRL/	Test	Morrow	-	-
1957-W03	2435838.50	1957	Asp III	4L	-	0.000	LRL	SS	-	LRL/	Test	Morrow	-	-
1958-W01	2436203.50	1958	Asp III	4L	-	0.000	LRL	SS	-	LRL/	Test	Morrow	-	-
1958-S115	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S116	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S117	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S118	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S119	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S120	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S121	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S122	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S123	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S124	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S125	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S126	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S127	2436416.50	1958 Aug 1?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S144	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S145	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S146	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S147	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S148	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S149	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S150	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S151	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S152	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S153	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S154	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S155	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S156	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SS	-	LRL/	Aeronomy	Desind	-	-
1958-S157	2436427.50	1958 Aug 12?	ASCAMP	-	-	0.000	LRL	SF	U	LRL/	Aeronomy	Desind	-	-
1959-A01	2436568.50	1959	Asp II	-	-	0.000	LRL	SS	-	LRL/	Test	Morrow	-	-
1959-A247	2436568.50	1959?	Pogo Hi III	-	-	0.000	BTL	SF	U	NMSU/	Test	NSMU	-	-
1959-M39	2436568.50	1959?	Pogo Hi III	-	-	0.000	BTL	SS	-	NMSU/	Test	NSMU	-	-
1959-M40	2436568.50	1959?	Pogo Hi III	-	-	0.000	BTL	SS	-	NMSU/	Target	NSMU	-	-
1960-Y01	2437072.50	1960 May 18	Asp IV	-	-	0.000	NRL?	SS	-	NRL/?	Test	Morrow	-	-
1960-Y02	2437073.50	1960 May 19	Asp IV	-	-	0.000	NRL?	SS	-	NRL/?	Test	Morrow	-	-
1962-A95	2437829.50	1962 Jun 14	Asp	-	-	0.000	ASL	SS	-	ASL/	Aeron	MR620618-10	-	-
1963-A190	2438029.50	1963	Cleansweep III	-	-	0.000	PMR	SS	-	AEC/LRL/	Aeron	MorrowPines	-	-
1964-A202	2438686.50	1964 Oct 18	Cleansweep III	-	-	0.000	PMR	SS	-	AEC/LRL/	Aeron	Gilbert64	PMRHist64	-
1964-A203	2438691.50	1964 Oct 23	Cleansweep III	-	-	0.000	PMR	SS	-	AEC/LRL/	Aeron	Gilbert64	PMRHist64	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-A93	2458320.42	2018 Jul 20 2200?	Astra Rocket 1.0	-	LV0001	Rocket 1.0	-	-	-	PSCA	LP2	-	-	2?	-	-
2018-A188	2458451.50	2018 Nov 29	Astra Rocket 2.0	-	LV0002	Rocket 2.0	-	-	-	PSCA	LP2	-	-	2?	-	-
2020-F07	2459104.64	2020 Sep 12 0319	Astra Rocket 3.1	-	LV0004	Rocket 3.1	-	-	-	PSCA	LP3B	-	-	1?	-	-
2020-F09	2459199.37	2020 Dec 15 2055	Astra Rocket 3.2	-	LV0005	Rocket 3.2	-	-	-	PSCA	LP3B	-	-	390	-	-
2021-F07	2459455.44	2021 Aug 28 2235:00	Astra Rocket 3.3	-	LV0006	Rocket 3.3	STP-27AD1	-	-	PSCA	LP3B	-	-	40?	-	-
2021-108	2459538.76	2021 Nov 20 0616:00	Astra Rocket 3.3	-	LV0007	Rocket 3.3	STP-27AD2	-	-	PSCA	LP3B	-	-	500?	-	-
2022-F01	2459621.33	2022 Feb 10 2000	Astra Rocket 3.3	-	LV0008	Rocket 3.3	VCLS Demo 2	Elana-41	-	SPFLA	SLC46	-	-	200?	-	-
2022-026	2459654.18	2022 Mar 15 1622	Astra Rocket 3.3	-	LV0009	Rocket 3.3	Spaceflight Astra 1	S4-CROSSOVER	-	PSCA	LP3B	-	-	546?	-	-
2022-F03	2459743.24	2022 Jun 12 1743:00	Astra Rocket 3.3	-	LV0010	Rocket 3.3	TROPICS 1	TROPICS 1	-	SPFLA	SLC46	-	-	543	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-A93	2458320.42	2018 Jul 20 2200?	Astra Rocket 1.0	-	LV0001	0.000	ASTRV	SF	S1P	-	Test	SN180727	-	-
2018-A188	2458451.50	2018 Nov 29	Astra Rocket 2.0	-	LV0002	0.000	ASTRV	SF	S1P	-	Test	SN181206	-	-
2020-F07	2459104.64	2020 Sep 12 0319	Astra Rocket 3.1	-	LV0004	0.005	ASTRV	OF	S1G	CX/G	Sat SSO O	SN181206	-	Guidance oscillation
2020-F09	2459199.37	2020 Dec 15 2055	Astra Rocket 3.2	-	LV0005	0.005	ASTRV	OF	S2P	CX/G	Sat SSO O	twitter.com	-	St2 shut down
2021-F07	2459455.44	2021 Aug 28 2235:00	Astra Rocket 3.3	-	LV0006	0.050	ASTRV	OF	S1P	CX/G	Sat LEO O	twitter.com	-	Engine failed, went sideways
2021-108	2459538.76	2021 Nov 20 0616:00	Astra Rocket 3.3	-	LV0007	0.201	ASTRV	OS	-	CX/G	Sat LEO O	youtube.com	-	-
2022-F01	2459621.33	2022 Feb 10 2000	Astra Rocket 3.3	-	LV0008	0.013	ASTRV	OF	FF	CX/G	Sat LEO O	youtube.com	-	Fairing sep failed; S2 guidance
2022-026	2459654.18	2022 Mar 15 1622	Astra Rocket 3.3	-	LV0009	0.017	ASTRV	OS	-	C	Sat LEO O	youtube.com	-	-
2022-F03	2459743.24	2022 Jun 12 1743:00	Astra Rocket 3.3	-	LV0010	0.008	ASTRV	OF	S2P	CX/G	Sat LEO O	youtube.com	-	Engine failed

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1994-A03	2449387.50	1994 Feb 4	Astrid	-	-	Pumped Prop'n Test	-	-	-	V	LF08/Rail	-	-	2	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1994-A03	2449387.50	1994 Feb 4	Astrid	-	-	0.000	LLL	TS	-	-	Test	VAFB	LLETR9407	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S389	2440745.50	1970 Jun 8	Astrobee D	-	Test 1	-	-	-	-	WS	-	-	-	98	-	-
1970-S390	2440745.50	1970 Jun 8	Astrobee D	-	Test 2	-	-	-	-	WS	-	-	-	98	-	-
1971-S71	2440971.32	1971 Jan 19 1943	Astrobee D	-	Robin	AFCRL 71-1	-	-	-	WI	-	-	-	146	-	-
1971-S74	2440973.26	1971 Jan 21 1818	Astrobee D	-	Robin	AFCRL 71-2	-	-	-	WI	-	-	-	130	-	-
1971-S75	2440973.29	1971 Jan 21 1902	Astrobee D	-	Robin	AFCRL 71-3	-	-	-	WI	-	-	-	129	-	-
1971-S76	2440973.32	1971 Jan 21 1938	Astrobee D	-	Robin	AFCRL 71-4	-	-	-	WI	-	-	-	132	-	-
1971-S77	2440973.35	1971 Jan 21 2019	Astrobee D	-	Robin	AFCRL 71-5	-	-	-	WI	-	-	-	132	-	-
1971-S78	2440973.38	1971 Jan 21 2102	Astrobee D	-	Robin	AFCRL 71-6	-	-	-	WI	-	-	-	127	-	-
1972-S53	2441345.38	1972 Jan 28 2108	Astrobee D	-	CRL A30.116-1	-	-	-	-	WS	-	-	-	117	-	-
1972-S55	2441345.71	1972 Jan 29 0500	Astrobee D	-	CRL A30.116-2	-	-	-	-	WS	-	-	-	122	-	-
1972-S101	2441383.01	1972 Mar 6 1214	Astrobee D	-	CRL A30.205-3	IR emission	-	-	-	PF	-	-	-	86	-	-
1972-S107	2441385.95	1972 Mar 9 1052	Astrobee D	-	CRL A30.205-4	IR emission	-	-	-	PF	-	-	-	90	-	-
1972-A116	2441657.77	1972 Dec 6 0635	Astrobee D	-	CRL A30.205-1	Auroral Quiet IR	-	-	-	FC	-	-	-	27	-	-
1972-M12	2441660.56	1972 Dec 9 0130	Astrobee D	-	CRL A30.205-2	Auroral Quiet IR	-	-	-	FC	-	-	-	70	-	-
1973-M05	2441762.92	1973 Mar 21 1011:00	Astrobee D	-	CRL A30.205-5	-	-	-	-	PF	-	-	-	78	-	-
1973-M07	2441778.86	1973 Apr 6 0845:00	Astrobee D	-	CRL A30.205-6	Enhanced OH	-	-	-	PF	-	-	-	78	-	-
1973-S223	2441864.35	1973 Jun 30 2030	Astrobee D	-	NASA 23.01GT	-	-	-	-	WI	-	-	-	93	-	-
1973-M12	2441959.53	1973 Oct 4 0040:01	Astrobee D	-	CRL A30.311-1	IR Radiometer	AO30.311-1	-	-	WS	-	-	-	53	-	-
1973-S339	2441959.56	1973 Oct 4 0127:00	Astrobee D	-	CRL A30.311-2	IR Radiometer	AO30.311-2	-	-	WS	-	-	-	100	-	-
1973-S340	2441959.71	1973 Oct 4 0500:00	Astrobee D	-	CRL A30.311-3	IR Radiometer	AO30.311-3	-	-	WS	-	-	-	102	-	-
1974-S94	2442086.68	1974 Feb 8 0416:21	Astrobee D	-	CRL A30.311-4	Tracking test	-	-	-	PF	-	-	-	91	-	-
1974-S170	2442149.48	1974 Apr 11 2338:16	Astrobee D	-	CRL A30.413-1	-	-	-	-	PF	-	-	-	83	-	-
1974-S172	2442150.48	1974 Apr 12 2325	Astrobee D	-	CRL A30.413-2	VLF	-	-	-	PF	-	-	-	129	-	-
1974-S344	2442331.19	1974 Oct 10 1637	Astrobee D	-	NASA 23.05UE	-	-	-	-	WS	-	-	-	90?	-	-
1975-S82	2442470.45	1975 Feb 26 2250	Astrobee D	-	CRL A30.413-3	Gerdian Condenser	-	-	-	PF	-	-	-	104	-	-
1975-S86	2442472.54	1975 Mar 1 0100	Astrobee D	-	CRL A30.311-6	IR/OH	-	-	-	PF	-	-	-	111	-	-
1975-M02	2442609.13	1975 Jul 15 1503	Astrobee D	-	NASA 23.02UE	-	-	-	-	WS	-	-	-	76	-	-
1975-S335	2442749.04	1975 Dec 2 1257	Astrobee D	-	CRL A30.311-8	Twilight D-Region	-	-	-	WS	-	-	-	120	-	-
1975-S336	2442749.08	1975 Dec 2 1350	Astrobee D	-	CRL A30.311-5	Twilight D-Region	-	-	-	WS	-	-	-	124	-	-
1975-S337	2442749.21	1975 Dec 2 1700	Astrobee D	-	CRL A30.311-7	Twilight D-Region	-	-	-	WS	-	-	-	125	-	-
1975-S338	2442749.52	1975 Dec 3 0035	Astrobee D	-	CRL A30.413-5	Twilight D-Region	-	-	-	WS	-	-	-	125	-	-
1975-S339	2442749.54	1975 Dec 3 0059	Astrobee D	-	CRL A30.205-7	Twilight D-Region	-	-	-	WS	-	-	-	125	-	-
1975-S340	2442749.58	1975 Dec 3 0200	Astrobee D	-	CRL A30.413-4	Twilight D-Region	-	-	-	WS	-	-	-	127	-	-
1976-M01	2442796.31	1976 Jan 18 1928	Astrobee D	-	NASA 23.03UE	-	-	-	-	WI	-	-	-	76	-	-
1976-M06	2442801.31	1976 Jan 23 1932	Astrobee D	-	NASA 23.04UE	-	-	-	-	WI	-	-	-	76	-	-
1976-S181	2442911.62	1976 May 13 0251	Astrobee D	-	NASA 23.06UE	-	-	-	-	WS	-	-	-	90?	-	-
1976-S245	2443002.16	1976 Aug 11 1545	Astrobee D	-	NASA 23.07UE	-	-	-	-	WS	-	-	-	90?	-	-
1977-S37	2443152.32	1977 Jan 8 1938	Astrobee D	-	NASA 23.08UE	-	-	-	-	WI	-	-	-	83	-	-
1979-S65	2443924.50	1979 Feb 20	Astrobee D	-	NASA 23.11UU	Nitric Oxide	-	-	-	FC	-	-	-	90?	-	-
1979-S79	2443931.20	1979 Feb 26 1650:50	Astrobee D	-	NASA 23.09UE	-	-	-	-	RLAKE	MCM	-	-	85	-	-
1979-S85	2443932.00	1979 Feb 27 1200	Astrobee D	-	NASA 23.10UE	-	-	-	-	RLAKE	MCM	-	-	85	-	-
1979-S145	2444031.50	1979 Jun 7	Astrobee D	-	NASA 23.12UU	-	-	-	-	WI	-	-	-	90?	-	-
1979-S203	2444132.50	1979 Sep 16	Astrobee D	-	NASA 23.16UE	-	-	-	-	WI	-	-	-	90?	-	-
1979-S204	2444136.50	1979 Sep 20	Astrobee D	-	NASA 23.13UU	-	-	-	-	WI	-	-	-	90?	-	-
1979-S215	2444147.50	1979 Oct 1	Astrobee D	-	NASA 23.14UU	-	-	-	-	WI	-	-	-	90?	-	-
1979-S252	2444225.50	1979 Dec 18	Astrobee D	-	NASA 23.15UU	-	-	-	-	WI	-	-	-	90?	-	-
1980-M01	2444285.85	1980 Feb 16 0825	Astrobee D	-	NASA 23.17UE	-	-	-	-	SMLC	-	-	-	78	-	-
1980-M03	2444286.35	1980 Feb 16 2030	Astrobee D	-	NASA 23.18UE	-	-	-	-	SMLC	-	-	-	76	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S389	2440745.50	1970 Jun 8	Astrobee D	-	Test 1	0.000	AFCRL	SS	-	AFCRL/GSFC/	Test	SRctCon2	JScR8,895	-
1970-S390	2440745.50	1970 Jun 8	Astrobee D	-	Test 2	0.000	AFCRL	SS	-	AFCRL/GSFC/	Test	SRctCon2	JScR8,895	-
1971-S71	2440971.32	1971 Jan 19 1943	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1971-S74	2440973.26	1971 Jan 21 1818	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1971-S75	2440973.29	1971 Jan 21 1902	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1971-S76	2440973.32	1971 Jan 21 1938	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1971-S77	2440973.35	1971 Jan 21 2019	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1971-S78	2440973.38	1971 Jan 21 2102	Astrobee D	-	Robin	0.000	AFCRL	SS	-	AFCRL/Wright	Aeron	WDCRF	JScR8,895	-
1972-S53	2441345.38	1972 Jan 28 2108	Astrobee D	-	CRL A30.116-1	0.000	AFCRL	SS	-	AERO/Morse	Plasma	KPNO	-	-
1972-S55	2441345.71	1972 Jan 29 0500	Astrobee D	-	CRL A30.116-2	0.000	AFCRL	SS	-	AERO/Morse	Plasma	KPNO	-	-
1972-S101	2441383.01	1972 Mar 6 1214	Astrobee D	-	CRL A30.205-3	0.000	AFCRL	SS	-	AFCRL/Grieder,Rogers	Aeron	JGR78,7023	AFCRL	-
1972-S107	2441385.95	1972 Mar 9 1052	Astrobee D	-	CRL A30.205-4	0.000	AFCRL	SS	-	AFCRL/Grieder	Aeron	AFCRL	-	-
1972-A116	2441657.77	1972 Dec 6 0635	Astrobee D	-	CRL A30.205-1	0.000	AFCRL	SF	U	AFCRL/Ulwick	Ionos/Aeron	FC	AFCRL	-
1972-M12	2441660.56	1972 Dec 9 0130	Astrobee D	-	CRL A30.205-2	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos/Aeron	FC	AFCRL	-
1973-M05	2441762.92	1973 Mar 21 1011:00	Astrobee D	-	CRL A30.205-5	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1973-M07	2441778.86	1973 Apr 6 0845:00	Astrobee D	-	CRL A30.205-6	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1973-S223	2441864.35	1973 Jun 30 2030	Astrobee D	-	NASA 23.01GT	0.000	GSFC	SS	-	GSFC/Jones	Test	SP-4018	WDCRF	-
1973-M12	2441959.53	1973 Oct 4 0040:01	Astrobee D	-	CRL A30.311-1	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL-TR-76-0057	-	-
1973-S339	2441959.56	1973 Oct 4 0127:00	Astrobee D	-	CRL A30.311-2	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL-TR-76-0057	-	-
1973-S340	2441959.71	1973 Oct 4 0500:00	Astrobee D	-	CRL A30.311-3	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL-TR-76-0057	-	-
1974-S94	2442086.68	1974 Feb 8 0416:21	Astrobee D	-	CRL A30.311-4	0.000	AFCRL	SS	-	AFCRL/Ulwick	Test	AFCRL	-	-
1974-S170	2442149.48	1974 Apr 11 2338:16	Astrobee D	-	CRL A30.413-1	0.000	AFCRL	SF	U	AFCRL/Ulwick	Ionos	AFCRL	-	-
1974-S172	2442150.48	1974 Apr 12 2325	Astrobee D	-	CRL A30.413-2	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL	-	-
1974-S344	2442331.19	1974 Oct 10 1637	Astrobee D	-	NASA 23.05UE	0.000	GSFC	SS	-	PSU/Hale	Ionos	JCM	-	-
1975-S82	2442470.45	1975 Feb 26 2250	Astrobee D	-	CRL A30.413-3	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1975-S86	2442472.54	1975 Mar 1 0100	Astrobee D	-	CRL A30.311-6	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1975-M02	2442609.13	1975 Jul 15 1503	Astrobee D	-	NASA 23.02UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1975-S335	2442749.04	1975 Dec 2 1257	Astrobee D	-	CRL A30.311-8	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1975-S336	2442749.08	1975 Dec 2 1350	Astrobee D	-	CRL A30.311-5	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1975-S337	2442749.21	1975 Dec 2 1700	Astrobee D	-	CRL A30.311-7	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1975-S338	2442749.52	1975 Dec 3 0035	Astrobee D	-	CRL A30.413-5	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1975-S339	2442749.54	1975 Dec 3 0059	Astrobee D	-	CRL A30.205-7	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1975-S340	2442749.58	1975 Dec 3 0200	Astrobee D	-	CRL A30.413-4	0.000	AFCRL	SS	-	AFCRL/Ulwick,Baker	Aeron/Tech	AFCRL	-	-
1976-M01	2442796.31	1976 Jan 18 1928	Astrobee D	-	NASA 23.03UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR19,143	-
1976-M06	2442801.31	1976 Jan 23 1932	Astrobee D	-	NASA 23.04UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	SR19,143	-
1976-S181	2442911.62	1976 May 13 0251	Astrobee D	-	NASA 23.06UE	0.000	GSFC	SS	-	UAF/Shaw	Plasma	JCM	-	-
1976-S245	2443002.16	1976 Aug 11 1545	Astrobee D	-	NASA 23.07UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	JCM	-	-
1977-S37	2443152.32	1977 Jan 8 1938	Astrobee D	-	NASA 23.08UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1979-S65	2443924.50	1979 Feb 20	Astrobee D	-	NASA 23.11UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1979-S79	2443931.20	1979 Feb 26 1650:50	Astrobee D	-	NASA 23.09UE	0.000	GSFC	SS	-	PSU/Hale	Plasma/Eclipse	JATP45-515	-	-
1979-S85	2443932.00	1979 Feb 27 1200	Astrobee D	-	NASA 23.10UE	0.000	GSFC	SS	-	PSU/Hale	Plasma/Eclipse	JATP45-515	-	-
1979-S145	2444031.50	1979 Jun 7	Astrobee D	-	NASA 23.12UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1979-S203	2444132.50	1979 Sep 16	Astrobee D	-	NASA 23.16UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1979-S204	2444136.50	1979 Sep 20	Astrobee D	-	NASA 23.13UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1979-S215	2444147.50	1979 Oct 1	Astrobee D	-	NASA 23.14UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1979-S252	2444225.50	1979 Dec 18	Astrobee D	-	NASA 23.15UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1980-M01	2444285.85	1980 Feb 16 0825	Astrobee D	-	NASA 23.17UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1980-M03	2444286.35	1980 Feb 16 2030	Astrobee D	-	NASA 23.18UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S321	2441587.26	1972 Sep 26 1813	Astrobee F	-	NASA 12.20GT	-	-	-	-	WI	LA1?	-	-	199	-	-
1974-S193	2442175.50	1974 May 8	Astrobee F	-	NASA 12.21GT	-	-	-	-	WS	-	-	-	155	-	-
1975-S156	2442548.14	1975 May 15 1525	Astrobee F	-	NASA 25.03GT-NP	-	-	-	-	WS	-	-	-	224	-	-
1975-S302	2442699.94	1975 Oct 14 1030:00	Astrobee F	-	CRL A31.320-02	IPRCE-4/Zodi IR	-	-	-	WS	-	-	-	265	-	-
1976-S154	2442868.20	1976 Mar 30 1650	Astrobee F	-	NASA 25.13CS-NT	LPARL Solar Corona	-	-	-	WS	-	-	-	230	-	-
1977-S81	2443190.62	1977 Feb 16 0300	Astrobee F	-	NASA 25.15GG	-	-	-	-	WS	-	-	-	198	-	-
1977-S86	2443194.50	1977 Feb 20	Astrobee F	-	-	LUX/ASE Wolter I	-	-	-	WS	-	-	-	270	-	-
1977-S106	2443214.65	1977 Mar 12 0330	Astrobee F	-	NASA 25.20UG	-	-	-	-	WS	-	-	-	225	-	-
1977-S120	2443221.75	1977 Mar 19 0606	Astrobee F	-	NASA 25.25UE	Auroral Oxides	-	-	-	FC	-	-	-	195	-	-
1977-S217	2443345.88	1977 Jul 21 0900	Astrobee F	-	NASA 25.16GG	-	-	-	-	WS	-	-	-	206	-	-
1977-S220	2443351.73	1977 Jul 27 0535	Astrobee F	-	NASA 25.21UH	MIT WIXT 1	-	-	-	WS	-	-	-	190	-	-
1977-S255	2443416.24	1977 Sep 29 1745	Astrobee F	-	NASA 25.22UL	-	-	-	-	WS	-	-	-	257	-	-
1977-S299	2443488.82	1977 Dec 11 0745	Astrobee F	-	NASA 25.17GG	UIT-Proto F1	-	-	-	WS	-	-	-	226	-	-
1978-S43	2443518.33	1978 Jan 9 2000	Astrobee F	-	NASA 25.29GA	-	-	-	-	WS	-	-	-	262	-	-
1978-S44	2443518.76	1978 Jan 10 0615	Astrobee F	-	NASA 25.12UH	-	-	-	-	WS	-	-	-	196	-	-
1978-S48	2443529.88	1978 Jan 21 0901	Astrobee F	-	GL A31.603	CHARGING	-	-	-	WS	-	-	-	258	-	-
1978-S89	2443575.67	1978 Mar 8 0400	Astrobee F	-	NASA 25.23UH	MIT WIXT 2	-	-	-	WS	-	-	-	190	-	-
1978-S93	2443580.80	1978 Mar 13 0705	Astrobee F	-	NASA 25.31UE	Auroral NO	-	-	-	FC	-	-	-	198	-	-
1978-S137	2443643.88	1978 May 15 0905	Astrobee F	-	NASA 25.26DG	NRL Mk II UV Camera	-	-	-	WS	-	-	-	211	-	-
1978-S183	2443709.69	1978 Jul 20 0430	Astrobee F	-	NASA 25.37UH	-	-	-	-	WS	-	-	-	190	-	-
1978-S212	2443771.62	1978 Sep 20 0258	Astrobee F	-	NASA 25.28UL	-	-	-	-	WS	-	-	-	224	-	-
1978-S214	2443777.71	1978 Sep 26 0505	Astrobee F	-	NASA 25.42GG	-	-	-	-	WS	-	-	-	231	-	-
1978-S246	2443843.81	1978 Dec 1 0720	Astrobee F	-	NASA 25.38UL	JHU UVT F9 (Jupiter)	-	-	-	WS	-	-	-	238	-	-
1978-S253	2443853.62	1978 Dec 11 0300	Astrobee F	-	NASA 25.01UH	XUV Telescope	-	-	-	WS	-	-	-	164	-	-
1979-S35	2443883.00	1979 Jan 9 1153	Astrobee F	-	NASA 25.32UL	-	-	-	-	WS	-	-	-	214	-	-
1979-S37	2443891.33	1979 Jan 17 2000	Astrobee F	-	NASA 25.10AS	-	-	-	-	WS	-	-	-	226	-	-
1979-S51	2443901.63	1979 Jan 28 0307	Astrobee F	-	NASA 25.41UE	Nitric Oxide	-	-	-	FC	-	-	-	100?	-	-
1979-S96	2443947.72	1979 Mar 15 0520	Astrobee F	-	NASA 25.045UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	216	-	-
1979-S100	2443953.66	1979 Mar 21 0345	Astrobee F	-	NASA 25.33UG	-	-	-	-	WS	-	-	-	221	-	-
1979-S139	2444014.71	1979 May 21 0500	Astrobee F	-	NASA 25.43GG	UIT Proto	-	-	-	WS	-	-	-	226	-	-
1979-S140	2444014.78	1979 May 21 0640	Astrobee F	-	NASA 25.44GG	-	-	-	-	WS	-	-	-	240	-	-
1979-S143	2444026.50	1979 Jun 2	Astrobee F	-	NASA 25.27DG	NRL FUV Spectrograph	-	-	-	WS	-	-	-	200?	-	-
1979-S180	2444088.89	1979 Aug 3 0920	Astrobee F	-	GL A31.702	FWIR III	-	-	-	WS	-	-	-	172	-	-
1979-S187	2444103.39	1979 Aug 17 2115	Astrobee F	-	NASA 25.11AS	-	-	-	-	WS	-	-	-	225	-	-
1979-S207	2444140.97	1979 Sep 24 1115	Astrobee F	-	NASA 25.39UG	JHU UVS	-	-	-	WS	-	-	-	246	-	-
1979-S229	2444169.64	1979 Oct 23 0315	Astrobee F	-	NASA 25.49GG	-	-	-	-	WS	-	-	-	227	-	-
1979-S250	2444221.50	1979 Dec 14	Astrobee F	-	NASA 25.48UG	-	0.3m UVT	-	-	WS	-	-	-	200?	-	-
1980-S28	2444259.84	1980 Jan 21 0805	Astrobee F	-	NASA 25.051UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	216	-	-
1980-S69	2444320.94	1980 Mar 22 1030	Astrobee F	-	NASA 25.47UH	Soft XRB 1	-	-	-	WS	-	-	-	217	-	-
1980-S73	2444326.77	1980 Mar 28 0626	Astrobee F	-	NASA 25.59UH	UM Airglow Payload	Mich. Auroral Probe	-	-	FC	-	-	-	198	-	-
1980-S113	2444382.12	1980 May 22 1500	Astrobee F	-	NASA 25.63GS	Solar Constant 3	-	-	-	WS	-	-	-	249	-	-
1980-S124	2444406.83	1980 Jun 16 0800	Astrobee F	-	NASA 25.58DG	NRL FUV Spectrograph	-	-	-	WS	-	-	-	217	-	-
1980-S131	2444418.29	1980 Jun 27 1901	Astrobee F	-	NASA 25.46UE	-	-	-	-	WS	-	-	-	260	-	-
1980-S149	2444460.81	1980 Aug 9 0730	Astrobee F	-	NASA 25.53GG	UIT Proto	-	-	-	WS	-	-	-	214	-	-
1980-S193	2444544.78	1980 Nov 1 0644	Astrobee F	-	NASA 25.50UG	-	0.3m UTV	-	-	WS	-	-	-	227	-	-
1981-S52	2444624.70	1981 Jan 20 0450	Astrobee F	-	NASA 25.62DG	NRL FUV Spectrograph	-	-	-	WS	-	-	-	209	-	-
1981-S56	2444633.67	1981 Jan 29 0412	Astrobee F	-	NASA 25.60UE	UM Airglow Pay.	-	-	-	FC	-	-	-	189	-	-
1981-S163	2444894.50	1981 Oct 17	Astrobee F	-	NASA 25.40UH	MIT WFSXC 1	-	-	-	WS	-	-	-	200?	-	-
1983-S64	2445395.60	1983 Mar 2 0217	Astrobee F	-	GL A31.200	Sensor Ejection Sys	-	-	-	WS	-	-	-	197	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S321	2441587.26	1972 Sep 26 1813	Astrobee F	-	NASA 12.20GT	0.000	GSFC	SS	-	GSFC/Honecker	Test	SRctCon3	-	-
1974-S193	2442175.50	1974 May 8	Astrobee F	-	NASA 12.21GT	0.000	GSFC	SF	U	GSFC/Honecker	Test	WISR	SP-4019	-
1975-S156	2442548.14	1975 May 15 1525	Astrobee F	-	NASA 25.03GT-NP	0.000	GSFC	SS	-	JPL/GSFC/Juvinall et al	Test	WDCRF	-	-
1975-S302	2442699.94	1975 Oct 14 1030:00	Astrobee F	-	CRL A31.320-02	0.000	AFCRL	SS	-	CORN/AFCRL/Walker	IR Astron	AFCRL	BriottaPhD	-
1976-S154	2442868.20	1976 Mar 30 1650	Astrobee F	-	NASA 25.13CS-NT	0.000	GSFC	SS	-	ARC/LPARL/Chisel,Acton	Solar X/Test	WDCRF	-	-
1977-S81	2443190.62	1977 Feb 16 0300	Astrobee F	-	NASA 25.15GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1977-S86	2443194.50	1977 Feb 20	Astrobee F	-	-	0.000	GSFC	SS	-	LUX/ASE/	Solar X	Massey	-	-
1977-S106	2443214.65	1977 Mar 12 0330	Astrobee F	-	NASA 25.20UG	0.000	GSFC	SS	-	UCO/Lillie	UV Astron	WDCRF	-	-
1977-S120	2443221.75	1977 Mar 19 0606	Astrobee F	-	NASA 25.25UE	0.000	GSFC	SS	-	UMI/Sharp,Hayes	Plasma	WDCRF	-	-
1977-S217	2443345.88	1977 Jul 21 0900	Astrobee F	-	NASA 25.16GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron?	WDCRF	-	-
1977-S220	2443351.73	1977 Jul 27 0535	Astrobee F	-	NASA 25.21UH	0.000	GSFC	SS	-	MIT/LUX/Rappaport	XR Astron	WDCRF	-	-
1977-S255	2443416.24	1977 Sep 29 1745	Astrobee F	-	NASA 25.22UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron	WDCRF	-	-
1977-S299	2443488.82	1977 Dec 11 0745	Astrobee F	-	NASA 25.17GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1978-S43	2443518.33	1978 Jan 9 2000	Astrobee F	-	NASA 25.29GA	0.000	GSFC	SS	-	GSFC/Gentieu	Aeronomy	WDCRF	-	-
1978-S44	2443518.76	1978 Jan 10 0615	Astrobee F	-	NASA 25.12UH	0.000	GSFC	SS	-	SAO/Murray	XR Astron	WDCRF	-	-
1978-S48	2443529.88	1978 Jan 21 0901	Astrobee F	-	GL A31.603	0.000	AFGL2	SS	-	AFCRL/Cohen	Tech	CP-2071	AFCRL	-
1978-S89	2443575.67	1978 Mar 8 0400	Astrobee F	-	NASA 25.23UH	0.000	GSFC	SS	-	MIT/LUX/Rappaport	XR Astronomy	WDCRF	-	-
1978-S93	2443580.80	1978 Mar 13 0705	Astrobee F	-	NASA 25.31UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	IMS78-4	FC	FC:0750
1978-S137	2443643.88	1978 May 15 0905	Astrobee F	-	NASA 25.26DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	-	-
1978-S183	2443709.69	1978 Jul 20 0430	Astrobee F	-	NASA 25.37UH	0.000	GSFC	SS	-	SAO/Murray	XR Astron	WDCRF	-	-
1978-S212	2443771.62	1978 Sep 20 0258	Astrobee F	-	NASA 25.28UL	0.000	GSFC	SS	-	UCO/Barth	EUV Astron	WDCRF	-	-
1978-S214	2443777.71	1978 Sep 26 0505	Astrobee F	-	NASA 25.42GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1978-S246	2443843.81	1978 Dec 1 0720	Astrobee F	-	NASA 25.38UL	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	ApJ240,696	-
1978-S253	2443853.62	1978 Dec 11 0300	Astrobee F	-	NASA 25.01UH	0.000	GSFC	SS	-	CIT/Garmire	EUV Astron	WDCRF	-	-
1979-S35	2443883.00	1979 Jan 9 1153	Astrobee F	-	NASA 25.32UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WDCRF	-	-
1979-S37	2443891.33	1979 Jan 17 2000	Astrobee F	-	NASA 25.10AS	0.000	GSFC	SS	-	DOE/Blake	Solar	WDCRF	-	-
1979-S51	2443901.63	1979 Jan 28 0307	Astrobee F	-	NASA 25.41UE	0.000	GSFC	SF	U	UMI/Sharp,Demorest	Aeron	WDCRF	-	-
1979-S96	2443947.72	1979 Mar 15 0520	Astrobee F	-	NASA 25.045UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1979-S100	2443953.66	1979 Mar 21 0345	Astrobee F	-	NASA 25.33UG	0.000	GSFC	SS	-	UCO/Lillie	UV Astron	WDCRF	-	-
1979-S139	2444014.71	1979 May 21 0500	Astrobee F	-	NASA 25.43GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1979-S140	2444014.78	1979 May 21 0640	Astrobee F	-	NASA 25.44GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	WDCRF	-	-
1979-S143	2444026.50	1979 Jun 2	Astrobee F	-	NASA 25.27DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WISR	-	-
1979-S180	2444088.89	1979 Aug 3 0920	Astrobee F	-	GL A31.702	0.000	AFGL2	SS	-	AFCRL/Wheeler	Aeron/IR Astron	WDCRF	AFCRL	-
1979-S187	2444103.39	1979 Aug 17 2115	Astrobee F	-	NASA 25.11AS	0.000	GSFC	SS	-	DOE/Blake	Solar	WDCRF	-	-
1979-S207	2444140.97	1979 Sep 24 1115	Astrobee F	-	NASA 25.39UG	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	-	-
1979-S229	2444169.64	1979 Oct 23 0315	Astrobee F	-	NASA 25.49GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron?	WDCRF	-	-
1979-S250	2444221.50	1979 Dec 14	Astrobee F	-	NASA 25.48UG	0.000	GSFC	SS	-	UWI/Bless,Code	UV Astron	WISR	-	-
1980-S28	2444259.84	1980 Jan 21 0805	Astrobee F	-	NASA 25.051UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1980-S69	2444320.94	1980 Mar 22 1030	Astrobee F	-	NASA 25.47UH	0.000	GSFC	SS	-	SAO/Schnopper	XR Astron	WDCRF	-	-
1980-S73	2444326.77	1980 Mar 28 0626	Astrobee F	-	NASA 25.59UH	0.000	GSFC	SS	-	UMI/Sharp	Aurora	FC	JGR92,10095	-
1980-S113	2444382.12	1980 May 22 1500	Astrobee F	-	NASA 25.63GS	0.000	GSFC	SS	-	GSFC/Duncan	Solar	WDCRF	VarSolarCon,45	-
1980-S124	2444406.83	1980 Jun 16 0800	Astrobee F	-	NASA 25.58DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	-	-
1980-S131	2444418.29	1980 Jun 27 1901	Astrobee F	-	NASA 25.46UE	0.000	GSFC	SS	-	AERO/Christensen	Plasma	WDCRF	-	-
1980-S149	2444460.81	1980 Aug 9 0730	Astrobee F	-	NASA 25.53GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1980-S193	2444544.78	1980 Nov 1 0644	Astrobee F	-	NASA 25.50UG	0.000	GSFC	SS	-	UWI/Bless,Code	UV Astron	WDCRF	-	-
1981-S52	2444624.70	1981 Jan 20 0450	Astrobee F	-	NASA 25.62DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	-	-
1981-S56	2444633.67	1981 Jan 29 0412	Astrobee F	-	NASA 25.60UE	0.000	GSFC	SS	-	UMI/Sharp,Kroft	Auroral	WDCRF	-	-
1981-S163	2444894.50	1981 Oct 17	Astrobee F	-	NASA 25.40UH	0.000	GSFC	SS	-	MIT/LUX/Rappaport	XR Astron	WISR	-	-
1983-S64	2445395.60	1983 Mar 2 0217	Astrobee F	-	GL A31.200	0.000	AFGL	SS	-	AFCRL/McKenna	Tech	JCM	AFCRL	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-S64	2455165.56	2009 Nov 30 0128	Atea-1	-	1	Manu Karere	-	-	-	GMI	-	-	-	120?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-S64	2455165.56	2009 Nov 30 0128	Atea-1	-	1	0.000	RLABN	SS	-	RLABN/Beck	Test	rocketlab.co.nz	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A50	2436001.32	1957 Jun 11 1937	Atlas A	-	4A	R&D Fairing	R&D	-	-	CC	LC14	-	-	3	-	-
1957-A106	2436107.33	1957 Sep 25 1957	Atlas A	-	6A	R&D Fairing	R&D	-	-	CC	LC14	-	-	4	-	-
1957-S180	2436190.24	1957 Dec 17 1739	Atlas A	-	12A	R&D Fairing	R&D	-	-	CC	LC14	-	-	120?	-	-
1958-S07	2436214.16	1958 Jan 10 1548	Atlas A	-	10A	R&D Fairing	R&D	-	-	CC	LC12	-	-	120?	-	-
1958-S21	2436242.32	1958 Feb 7 1937	Atlas A	-	13A	R&D Fairing	R&D	-	-	CC	LC14	-	-	120?	-	-
1958-S26	2436255.24	1958 Feb 20 1746	Atlas A	-	11A	R&D Fairing	R&D	-	-	CC	LC12	-	-	90?	-	-
1958-S52	2436299.21	1958 Apr 5 1701	Atlas A	-	15A	R&D Fairing	R&D	-	-	CC	LC14	-	-	100?	-	-
1958-S78	2436358.39	1958 Jun 3 2128	Atlas A	-	16A	R&D Fairing	R&D	-	-	CC	LC12	-	-	120?	-	-
1958-A77	2436404.23	1958 Jul 19 1736	Atlas B	-	3B	Mk 2-1 RV	R&D	-	-	CC	LC11	-	-	10?	-	-
1958-S134	2436418.43	1958 Aug 2 2216	Atlas B	-	4B	Mk 2-1 RV	R&D	-	-	CC	LC13	-	-	900?	-	-
1958-S177	2436444.69	1958 Aug 29 0430	Atlas B	-	5B	Mk 2-1 RV/AFSWC-1	R&D	-	-	CC	LC11	-	-	900?	5284	-
1958-S197	2436460.73	1958 Sep 14 0524	Atlas B	-	8B	Mk 2-1CX RV/AFSWC-2	R&D	-	-	CC	LC14	-	-	900?	5836	-
1958-S202	2436465.39	1958 Sep 18 2127	Atlas B	-	6B	Low Drag Fairing	R&D	-	-	CC	LC13	-	-	100?	-	-
1958-S259	2436525.67	1958 Nov 18 0400	Atlas B	-	9B	Mk 2-1 RV	R&D	-	-	CC	LC11	-	-	800?	-	-
1958-S270	2436536.60	1958 Nov 29 0227	Atlas B	-	12B	Low Drag Fairing/AFWSC-3	R&D	-	-	CC	LC14	-	-	900?	10190	ETR-L
1958 ZET	2436556.46	1958 Dec 18 2302	Atlas B	-	10B	SCORE	SCORE	-	-	CC	LC11	-	-	1470	-	-
1958-S296	2436561.70	1958 Dec 24 0445	Atlas C	-	3C	Mk 2 RV	R&D	-	-	CC	LC12	-	-	900?	7043	-
1959-S04	2436584.67	1959 Jan 16 0400	Atlas B	-	13B	Mk 2-1 RV	R&D	-	-	CC	LC14	-	-	100?	-	-
1959-S09	2436596.48	1959 Jan 27 2334	Atlas C	-	4C	Mk 2-2A RV	R&D	-	-	CC	LC12	-	-	990?	7984	-
1959-S13	2436603.83	1959 Feb 4 0801	Atlas B	-	11B	Mk 2-1 RV/AFSWC-4?	R&D	-	-	CC	LC11	-	-	990	5741	-
1959-S16	2436619.73	1959 Feb 20 0538	Atlas C	-	5C	Mk 2-1F	R&D	-	-	CC	LC12	-	-	100?	-	-
1959-S33	2436646.54	1959 Mar 19 0059	Atlas C	-	7C	RVX-2	R&D	-	-	CC	LC12	-	-	200?	-	-
1959-A61	2436673.41	1959 Apr 14 2146	Atlas D	-	3D	Mk 2-2A	R&D	-	-	CC	LC13	-	-	1?	-	-
1959-A79	2436707.69	1959 May 19 0430	Atlas D	-	7D	RVX-2	R&D	-	-	CC	LC14	-	-	1?	-	-
1959-M18	2436726.24	1959 Jun 6 1739	Atlas D	-	5D	Mk 2-2A	R&D	-	-	CC	LC13	-	-	80?	-	-
1959-S117	2436770.72	1959 Jul 21 0522	Atlas C	-	8C	RVX-2/AFSWC-5	R&D	-	-	CC	LC12	-	-	900?	8121	ASC
1959-S129	2436778.67	1959 Jul 29 0410	Atlas D	-	11D	Mk 2-1AE	R&D	-	-	CC	LC11	-	-	1800?	8128	ASC
1959-S138	2436792.25	1959 Aug 11 1801	Atlas D	-	14D	Mk 2-2A	R&D	-	-	CC	LC13	-	-	1800?	8128	ASC
1959-S147	2436805.16	1959 Aug 24 1553	Atlas C	-	11C	Mk 2-1AE/AFSWC-6	R&D	-	-	CC	LC12	-	-	1400	8121	ASC
1959-S165	2436820.85	1959 Sep 9 0819	Atlas D	-	10D	MA Big Joe	-	-	-	CC	LC14	-	-	153	-	-
1959-S166	2436821.24	1959 Sep 9 1750:42	Atlas D	-	12D	Mk 2	IOC DEMO	DESERT HEAT	-	V	576A2	-	-	1800?	-	WAKE
1959-S175	2436828.59	1959 Sep 17 0209	Atlas D	-	17D	Mk 2-2A	R&D	-	-	CC	LC13	-	-	1000?	8128	ASC
1959-E02	2436836.13	1959 Sep 24 1512	Atlas C Able	-	9C	Static Test	Able IVA	-	-	CC	LC12	-	-	0	0	-
1959-S199	2436847.75	1959 Oct 6 0555	Atlas D	-	18D	Mk 3-1	R&D	-	-	CC	LC11	-	-	1800?	8128	ASC
1959-S205	2436851.63	1959 Oct 10 0310	Atlas D	-	22D	Mk 3-1	R&D	-	-	CC	LC13	-	-	1800?	8128	ASC
1959-S227	2436870.81	1959 Oct 29 0720	Atlas D	-	26D	Mk 3-1	R&D	-	-	CC	LC11	-	-	1800?	8128	ASC
1959-S232	2436877.40	1959 Nov 4 2137	Atlas D	-	28D	Mk 3-1	R&D	-	-	CC	LC13	-	-	1800?	7600?	(ASC)
1959-S252	2436897.33	1959 Nov 24 1948	Atlas D	-	15D	Mk 3-1	R&D	-	-	CC	LC13	-	-	1800?	8128	ASC
1959-F09	2436898.81	1959 Nov 26 0726	Atlas Able	-	20D	Able IVB	Able IVB	-	-	CC	LC14	-	-	1000?	-	-
1959-S266	2436911.51	1959 Dec 9 0010	Atlas D	-	31D	Mk 3-1	R&D	-	-	CC	LC13	-	-	1800?	8128	ASC
1959-S274	2436921.53	1959 Dec 19 0048	Atlas D	-	40D	Mk 2-IIJ-3	R&D	-	-	CC	LC13	-	-	1800?	10193	ETR-L
1960-S08	2436940.57	1960 Jan 7 0140	Atlas D	-	43D	Mk 3-IX	R&D	-	-	CC	LC13	-	-	1800?	10193	ETR-L
1960-S22	2436960.49	1960 Jan 26 2343:05	Atlas D	-	6D	Mk 2-4	IOC DEMO	DUAL EXHAUST	-	V	576A3	-	-	1800?	7220?	WAKE
1960-S24	2436960.56	1960 Jan 27 0131	Atlas D	-	44D	RVX-4A-2	R&D	-	-	CC	LC13	-	-	1800?	8128	ASC
1960-S34	2436976.67	1960 Feb 12 0411	Atlas D	-	49D	Mk 3-1A	R&D	-	-	CC	LC13	-	-	1800?	10193	ETR-L
1960-F03	2436991.23	1960 Feb 26 1725:30	Atlas Agena A	-	29D/1008	Midas 1	Midas ETS-I F1	-	-	CC	LC14	-	-	90?	-	-
1960-S49	2437002.05	1960 Mar 8 1310	Atlas D	-	42D	Mk 3-IX-211	R&D D/AIG guid.test OL1	-	-	CC	LC11	-	-	1800?	8141	ASC-O
1960-A65	2437004.52	1960 Mar 11 0036	Atlas D	-	51D	Mk 3-1A	R&D	-	-	CC	LC13	-	-	0	0	-
1960-A94	2437032.59	1960 Apr 8 0206	Atlas D	-	48D	Mk 3-1A-216	R&D D/AIG guid.test OL2	-	-	CC	LC11	-	-	0	0	(ASC-O)
1960-S81	2437047.32	1960 Apr 22 1939:01	Atlas D	-	25D	Mk 2-4	IOC ORT	QUICK START	-	V	576B2	-	-	1800?	7221	WAKE
1960-A116	2437061.20	1960 May 6 1647:02	Atlas D	-	23D	Mk 2-4	IOC ORT	LUCKY DRAGON	-	V	576B2	-	-	2?	2?	(WAKE)
1960-S100	2437075.13	1960 May 20 1500:27	Atlas D	-	56D	Mk 3-1B-220/LMSC rad	D/RIG Long range test	-	-	CC	LC12	-	-	1765	14560	ETR-I
1960 ZET	2437079.23	1960 May 24 1736:46	Atlas Agena A	-	45D/1007	Midas 2	Midas ETS-I F2	-	-	CC	LC14	-	-	517	-	-
1960-S123	2437096.77	1960 Jun 11 0630:18	Atlas D	-	54D	Mk 3-1B-221	D/AIG guidance test CL1	-	-	CC	LC11	-	-	994	7975	ASC-O
1960-S138	2437108.12	1960 Jun 22 1449:33	Atlas D	-	62D	Mk 3-2B-219/R&D Decoy	D/RIG test	-	-	CC	LC14	-	-	1231	8158?	ASC
1960-S151	2437113.60	1960 Jun 28 0230:54	Atlas D	-	27D	Mk 3-2B-213B/AFCRC rad	D/RIG test/radiometer	-	-	CC	LC12	-	-	1152	8128	ASC
1960-S162	2437117.79	1960 Jul 2 0658:22	Atlas D	-	60D	Mk 3-1B-223	D/AIG guidance test CL2	-	-	CC	LC11	-	-	901	7900?	ASC-O
1960-A170	2437138.49	1960 Jul 22 2346:16	Atlas D	-	74D	Mk 3-3B	IOC ORT	TIGER SKIN	-	V	576B1	-	-	20?	-	(ENW)
1960-A173	2437145.05	1960 Jul 29 1313:03	Atlas D	-	50D	MA-1	-	-	-	CC	LC14	-	-	13	-	-
1960-S226	2437156.26	1960 Aug 9 1809:33	Atlas D	-	32D	Mk 3-1B-224/AFCRC	D/RIG Long range test	-	-	CC	LC12	-	-	1531	11760	ETR-L2
1960-S237	2437159.04	1960 Aug 12 1300:10	Atlas D	-	66D	RVX-2A S/N 421	D/AIG guidance test CL3	-	-	CC	LC11	-	-	965	8125	ASC
1960-S268	2437190.36	1960 Sep 12 2038:38	Atlas D	-	47D	Mk 3-3	IOC DASO	GOLDEN JOURNEY	-	V	576B3	-	-	1000?	7128	(ENW)
1960-S274	2437193.92	1960 Sep 16 0958:06	Atlas D	-	76D	RVX-2A S/N 422	D/AIG guidance test CL4	-	-	CC	LC11	-	-	943	8125	ASC
1960-S276	2437197.27	1960 Sep 19 1831:27	Atlas D	-	79D	Mk 3-1B-226/LMSC spec.	D/RIG Long range test	-	-	CC	LC14	-	-	1691	14560	ETR-I
1960-F11	2437203.13	1960 Sep 25 1513:17	Atlas Able	-	80D	Able VA	Able VA	-	-	CC	LC12	-	-	1290	-	-
1960-S297	2437207.35	1960 Sep 29 2031:11	Atlas D	-	33D	Mk 3-3	IOC DASO	HIGH ARROW	-	V	576B2	-	-	500?	5900?	(ENW)
1960-S314	2437219.30	1960 Oct 11 1915	Atlas E	-	3E	Mk 4-1	R&D	-	-	CC	LC13	-	-	100?	-	(ASC)
1960-F13	2437219.36	1960 Oct 11 2033:28	Atlas Agena A	-	57D/2101	Samos 1	SAMOS E-1	GIBSON GIRL	-	PA	LC1-1	-	-	200?	-	-
1960-A244	2437220.70	1960 Oct 13 0453:49	Atlas D	-	81D	Mk 3-3	IOC DASO	DIAMOND JUBILEE	-	V	576B1	-	-	20?	-	(ENW)
1960-S319	2437220.90	1960 Oct 13 0934:38	Atlas D	-	71D	RVX-2A S/N 423	D/AIG guidance test CL5	-	-	CC	LC11	-	-	936	8125	ASC
1960-S335	2437229.72	1960 Oct 22 0513:20	Atlas D	-	55D	Mk 3-2B-222, LMSC radm	D/RIG Long range test	-	-	CC	LC14	-	-	1190	11760	ETR-L2
1960-S362	2437253.75	1960 Nov 15 0554:07	Atlas D	-	83D	Mk 4-1-11/LMSC specm	D/RIG, R&D decoy	-	-	CC	LC12	-	-	1096	8128	ASC
1960-S390	2437268.55	1960 Nov 30 0112	Atlas E	-	4E	Mk 3-1B	R&D	-	-	CC	LC13	-	-	100?	-	(ASC)
1960-F18	2437283.88	1960 Dec 15 0910	Atlas Able	-	91D	Able VB	Able VB	-	-	CC	LC12	-	-	13	-	-
1960-S413	2437285.36	1960 Dec 16 2035:33	Atlas D	-	99D	Mk 3-3	R&D	HOT SHOT	-	V	576B3	-	-	1800?	8126	ENW
1961-S25	2437323.38	1961 Jan 23 2102:05	Atlas D	-	90D	Mk 3-1B-218A/LMSC specm	D/RIG, Mod 1 Decoy	-	-	CC	LC12	-	-	896	8138	ASC
1961-S26	2437324.41	1961 Jan 24 2155	Atlas E	-	8E	Mk 4-4	R&D	-	-	CC	LC13	-	-	500?	-	(ASC)
1961 ALP	2437331.35	1961 Jan 31 2021:19	Atlas Agena A	-	70D/2102	Samos 2	SAMOS F-1	JAYHAWK JAMBOREE	-	PA	LC1-1	-	-	553	-	-
1961-S56	2437352.09	1961 Feb 21 1410	Atlas D	-	67D	MA-2	-	-	-	CC	LC14	-	-	182	-	-
1961-S60	2437355.27	1961 Feb 24 1829	Atlas E	-	9E	Mk 3-2B	R&D	-	-	CC	LC13	-	-	1500?	11760	ETR-L2
1961-S80	2437372.68	1961 Mar 14 0417	Atlas E	-	13E	Mk 3-1B	R&D	-	-	CC	LC13	-	-	500?	-	(ETR-I)
1961-S90	2437383.58	1961 Mar 25 0149	Atlas E	-	16E	Mk 3-2B	R&D	-	-	CC	LC13	-	-	1000?	-	(ETR-I)
1961-F03	2437415.18	1961 Apr 25 1615	Atlas D	-	100D	MA-3	Mercury SC8	-	-	CC	LC14	-	-	7	-	-
1961-S143	2437432.58	1961 May 13 0200	Atlas E	-	12E	Mk 5-1	R&D	-	-	CC	LC11	-	-	1500?	8126	ASC
1961-S157	2437444.41	1961 May 24 2150:38	Atlas D	-	95D	Mk 3?	R&D	LITTLE SATIN	-	V	576B2	-	-	1800?	8121	ENW
1961-S160	2437445.60	1961 May 26 0226	Atlas E	-	18E	Mk 4-4	R&D	-	-	CC	LC13	-	-	1500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A150	2437458.40	1961 Jun 7 2137:31	Atlas E	-	27E	Mk 4-5	R&D Cat II	SURE SHOT	-	V	OSTF1	-	-	0	-	-
1961-A157	2437473.62	1961 Jun 23 0300	Atlas E	-	17E	Mk 3-1B	R&D	-	-	CC	LC11	-	-	10?	-	-
1961-S203	2437487.70	1961 Jul 7 0451	Atlas E	-	22E	Mk 3-2B	R&D	-	-	CC	LC13	-	-	1500?	-	-
1961 SIG	2437493.13	1961 Jul 12 1511:46	Atlas Agena B	-	97D/1201	Midas 3	Midas ETS-II F1	POLAR ORBIT	-	PA	LC1-2	-	-	3591	-	-
1961-S226	2437512.40	1961 Jul 31 2132	Atlas E	-	21E	Mk 5-1	R&D	-	-	CC	LC11	-	-	1500?	-	-
1961-S232	2437520.69	1961 Aug 9 0431	Atlas F	-	2F	Mk 5-1	R&D	-	-	CC	LC13	-	-	1400?	-	-
1961-S252	2437534.55	1961 Aug 23 0116	Atlas D	-	101D	Mk 3-3B	R&D	NEW NICKEL	-	V	576B3	-	-	1800?	8100	ENW
1961 PHI	2437534.92	1961 Aug 23 1004:10	Atlas Agena B	-	111D/6001 (AA1)	Ranger 1	NASA P-32	-	-	CC	LC12	-	-	992	-	-
1961-S274	2437551.57	1961 Sep 9 0142:27	Atlas E	-	26E	Mk 4-2A-4 L-25599	R&D	-	-	CC	LC13	-	-	100?	-	-
1961-F09	2437552.31	1961 Sep 9 1928:27	Atlas Agena B	-	106D/2120	Samos 3	SAMOS E-2	FIRST MOTION	-	PA	LC1-1	-	-	0	-	-
1961 A ALP	2437556.09	1961 Sep 13 1404	Atlas D	-	88D	MA-4	Mercury SC8A	-	-	CC	LC14	-	-	240	-	-
1961-S317	2437575.27	1961 Oct 2 1823	Atlas E	-	25E	Mk 5-1/Pod 7	R&D	-	-	CC	LC11	-	-	1500?	-	-
1961-S322	2437578.07	1961 Oct 5 1342:37	Atlas E	-	30E	Mk 4-1B	R&D	-	-	CC	LC13	-	-	1500?	14500?	ETR-I?
1961 A DEL	2437594.08	1961 Oct 21 1353:03	Atlas Agena B	-	105D/1202	Midas 4	Midas ETS-II F2	BIG TOWN	-	PA	LC1-2	-	-	4828	-	-
1961-A234	2437614.12	1961 Nov 10 1455	Atlas E	-	32E	RVX-2A S/N 424A/Pod 13	R&D/SPURT	-	-	CC	LC13	-	-	40?	-	(ASC)
1961 A THE	2437621.84	1961 Nov 18 0812:21	Atlas Agena B	-	117D/6002 (AA2)	Ranger 2	NASA P-33	-	-	CC	LC12	-	-	245	-	-
1961-F13	2437626.37	1961 Nov 22 2045:47	Atlas Agena B	-	108D/2202	Samos 4	Samos 4 (E-5)	ROUND TRIP	-	PA	LC1-1	-	-	200?	-	-
1961-S387	2437626.38	1961 Nov 22 2104	Atlas F	-	4F	Mk 5-2/Pod 3/Pod 22	R&D	-	-	CC	LC11	-	-	1400?	-	-
1961 A IOT	2437633.13	1961 Nov 29 1507:57	Atlas D	-	93D	MA-5	Mercury SC9	-	-	CC	LC14	-	-	237	-	-
1961-S394	2437633.46	1961 Nov 29 2301:49	Atlas D	-	53D	Mk 3-3B	OT	BIG PUSH	-	V	576B2	-	-	1800?	-	ENW
1961-S403	2437635.36	1961 Dec 1 2040	Atlas E	-	35E	Mk 4-4/Pod 23	R&D	-	-	CC	LC13	-	-	1600?	-	-
1961-S412	2437641.39	1961 Dec 7 2118:36	Atlas D	-	82D	Mk 3-3B	OT	BIG CHIEF	-	V	576B3	-	-	1800?	-	ENW
1961-S420	2437646.34	1961 Dec 12 2016	Atlas F	-	5F	Mk 4-2A/Pod 24	R&D	-	-	CC	LC11	-	-	1000?	-	-
1961-S430	2437653.65	1961 Dec 20 0332	Atlas E	-	36E	Mk 5-1A/Pod 6/Pod 8	R&D	-	-	CC	LC13	-	-	1800?	-	ASC
1961-S431	2437654.65	1961 Dec 21 0335	Atlas F	-	6F	Mk 5-2/Pod 15/Pod 25	R&D	-	-	CC	LC11	-	-	500?	-	-
1961 A LAM	2437656.30	1961 Dec 22 1912:33	Atlas Agena B	-	114D/2203	Samos 5	Samos E-5	OCEAN WAY	-	PA	LC1-2	-	-	826	-	-
1962-S19	2437682.38	1962 Jan 17 2102:26	Atlas D	-	123D	Mk 3?	OT	BLUE FIN	-	V	576B2	-	-	1800?	-	ENW
1962-S22	2437688.39	1962 Jan 23 2128:27	Atlas D	-	132D	Mk 3-3B	OT	BLUE MOSS	-	V	576B3	-	-	1800?	-	ENW
1962 ALP	2437691.35	1962 Jan 26 2030:11	Atlas Agena B	-	121D/6003 (AA3)	Ranger 3	NASA P-34	-	-	CC	LC12	-	-	150000	-	-
1962-S37	2437709.37	1962 Feb 13 2055	Atlas E	-	40E	Mk 4-2A	R&D	-	-	CC	LC13	-	-	1600?	-	-
1962-S39	2437712.46	1962 Feb 16 2304	Atlas D	-	137D	Mk 3-3B	OT	BIG JOHN	-	V	576B2	-	-	1800?	-	ENW
1962 GAM	2437716.12	1962 Feb 20 1447:39	Atlas D	-	109D	MA-6	Mercury SC13	-	-	CC	LC14	-	-	249	-	-
1962-S47	2437717.44	1962 Feb 21 2230	Atlas D	-	52D	Mk 3-2B	OT	CHAIN SMOKE	-	V	576B3	-	-	1800?	-	ENW*
1962-S50	2437724.51	1962 Mar 1 0014:09	Atlas E	-	66E	Mk 4-5B	R&D Cat II	SILVER SPUR	-	V	OSTF1	-	-	1600?	-	-
1962 ETA	2437731.42	1962 Mar 7 2210:31	Atlas Agena B	-	112D/2204	Samos 6	Samos E-5	LOOSE TOOTH	-	PA	LC1-2	-	-	685	-	-
1962-S77	2437747.53	1962 Mar 24 0039:32	Atlas D	-	134D	Mk 3-3B	OT DASO/R&D Cat III	CURRY COMB I	-	V	576B2	-	-	1800?	-	ENW
1962 KAP	2437764.13	1962 Apr 9 1504:48	Atlas Agena B	-	110D/1203	Midas 5	Midas ETS-II F3	NIGHT HUNT	-	PA	LC1-2	-	-	3461	-	-
1962-A47	2437764.38	1962 Apr 9 2107:40	Atlas F	-	11F	Mk 4-1B	R&D	-	-	CC	LC11	-	-	0	-	-
1962-S96	2437766.58	1962 Apr 12 0157:26	Atlas D	-	129D	Mk 3-3B	OT DASO	CURRY COMB II	-	V	576B2	-	-	1800?	-	ENW
1962 MU	2437778.37	1962 Apr 23 2050	Atlas Agena B	-	133D/6004 (AA4)	Ranger 4	Ranger 4	-	-	CC	LC12	-	-	150000	-	-
1962 PI	2437781.29	1962 Apr 26 1856:08	Atlas Agena B	-	118D/2401	FTV 2401	AFP-201 PVP 851	DAINTY DOLL	-	PA	LC1-1	-	-	219	-	-
1962-S113	2437782.48	1962 Apr 27 2324	Atlas D	-	140D	Mk 3-3B	OT DASO	BLUE BALL	-	V	576B2	-	-	1800?	-	ENW
1962-A74	2437793.33	1962 May 8 1949	Atlas Centaur	-	F-1	Centaur R&D	R&D	-	-	CC	LC36A	-	-	6	-	-
1962-S130	2437796.52	1962 May 12 0031:48	Atlas D	-	127D	Mk 3-3B	OT DASO	CANNONBALL FLYER	-	V	576B3	-	-	1800?	-	ENW
1962 TAU	2437809.03	1962 May 24 1245:16	Atlas D	-	107D	MA-7	Mercury SC18	-	-	CC	LC14	-	-	287	-	-
1962 PSI	2437833.26	1962 Jun 17 1814:18	Atlas Agena B	-	115D/2402	FTV 2402	AFP-201 PVP 852	RUBBER GUN	-	PA	LC1-1	-	-	199	-	-
1962-S201	2437841.96	1962 Jun 26 1057:42	Atlas D	-	21D	Nike TV-33	NTMP K-1	ALL JAZZ	-	V	576B3	-	-	1800?	-	-
1962-S241	2437858.21	1962 Jul 12 1657:57	Atlas D	-	141D	Mk 3-3B	OT DASO	LONG LADY	-	V	576B2	-	-	1800?	11000	PHIL
1962-S242	2437859.38	1962 Jul 13 2111:33	Atlas E	-	67E	Mk 4-5B	R&D Cat II	EXTRA BONUS	-	V	OSTF1	-	-	1800?	-	-
1962 A ZET	2437864.37	1962 Jul 18 2051:20	Atlas Agena B	-	120D/2403	FTV 2403	AFP-201 PVP 853	ARMORED CAR	-	PA	LC1-1	-	-	250	-	-
1962-S247	2437864.96	1962 Jul 19 1105:27	Atlas D	-	13D	Nike TV-33	NTMP K-2	FIRST TRY	-	V	576B1	-	-	1800?	-	-
1962-F07	2437867.89	1962 Jul 22 0921:23	Atlas Agena B	-	145D/6901 (AA5)	Mariner 1	Mariner R-1	-	-	CC	LC12	-	-	90?	-	-
1962-S276	2437878.38	1962 Aug 1 2107:10	Atlas F	-	15F	Mk 4-5B	R&D	HIS NIBS	-	V	576E	-	-	1400?	-	-
1962 A LAM	2437882.25	1962 Aug 5 1758:59	Atlas Agena B	-	124D/2404	FTV 2404	AFP-201 PVP 854	AIR SCOUT	-	PA	LC1-1	-	-	202	-	-
1962-S285	2437886.45	1962 Aug 9 2251:08	Atlas D	-	8D	Mk 3-3D	OT DASO	PEG BOARD	-	V	576B3	-	-	1800?	-	ENW
1962-S286	2437886.46	1962 Aug 9 2305:19	Atlas D	-	87D	Mk 3-2D	OT DASO	PEG BOARD II	-	V	576B2	-	-	1800?	-	ENW
1962-A136	2437887.38	1962 Aug 10 2111:21	Atlas F	-	57F	Mk 4-5B	R&D	CRASH TRUCK	-	V	OSTF2	-	-	10?	-	-
1962-S294	2437890.42	1962 Aug 13 2200	Atlas F	-	7F	Mk 4-1B/Pod 16	R&D	-	-	CC	LC11	-	-	1400?	-	-
1962 A RHO	2437903.79	1962 Aug 27 0653:14	Atlas Agena B	-	179D/6902 (AA6)	Mariner 2	Mariner R-2	-	-	CC	LC12	-	-	150000	-	-
1962-S339	2437927.31	1962 Sep 19 1930	Atlas F	-	8F	Mk 4-1B/Pod 17	R&D	-	-	CC	LC11	-	-	1400?	-	-
1962-S378	2437939.99	1962 Oct 2 1146:25	Atlas D	-	4D	Nike TV-33	NTMP K-3	BRIAR STREET	-	V	576B2	-	-	500?	-	-
1962 B DEL	2437941.01	1962 Oct 3 1215:11	Atlas D	-	113D	MA-8	Mercury SC16	-	-	CC	LC14	-	-	286	-	-
1962 B ETA	2437956.21	1962 Oct 18 1659	Atlas Agena B	-	215D/6005 (AA7)	Ranger 5	Ranger 5	-	-	CC	LC12	-	-	150000	-	-
1962-S405	2437957.26	1962 Oct 19 1815	Atlas F	-	14F	Mk 4-1B S/N 14	R&D	-	-	CC	LC11	-	-	1400?	-	-
1962-S434	2437963.96	1962 Oct 26 1059:25	Atlas D	-	159D	Nike TV-33/Pod 20	NTMP K-5	CLOSED CIRCUITS	-	V	576A1	-	-	1800?	-	-
1962-S471	2437976.32	1962 Nov 7 1943	Atlas F	-	16F	Mk 4-1B	R&D	-	-	CC	LC11	-	-	1400?	-	-
1962 B PI	2437980.35	1962 Nov 11 2017:02	Atlas Agena B	-	128D/2405	FTV 2405	AFP-201 PVP 855	AFTER DECK	-	PA	LC1-1	-	-	234	-	-
1962-S477	2437983.44	1962 Nov 14 2236:02	Atlas F	-	13F	Mk 4-5B	R&D	ACTION TIME	-	V	OSTF2	-	-	300?	-	-
1962-S533	2438004.39	1962 Dec 5 2125	Atlas F	-	21F	Mk 4-1B	R&D	-	-	CC	LC11	-	-	1400?	-	-
1962-S556	2438010.98	1962 Dec 12 1138:03	Atlas D	-	161D	Nike TV-23	NTMP K-6	DEER PARK	-	V	576A3	-	-	1800?	-	-
1962-F09	2438016.36	1962 Dec 17 2036:33	Atlas Agena B	-	131D/1205	Midas 6	Midas ETS-III F1	BARGAIN COUNTER	-	PA	LC1-2	-	-	10?	-	-
1962-A230	2438017.23	1962 Dec 18 1726:55	Atlas E	-	64E	Nike TV-33	NTMP K-4	OAK TREE	-	V	OSTF1	-	-	10?	-	-
1962-S577	2438020.90	1962 Dec 22 0929:26	Atlas D	-	160D	Nike TV-33/Pod 4	NTMP K-7	FLY HIGH	-	V	576A1	-	-	2259	-	-
1963-S22	2438054.95	1963 Jan 25 1044:07	Atlas D	-	39D	Nike TV-33	NTMP K-9/OT	BIG SUE	-	V	576B2	-	-	100?	-	-
1963-S30	2438060.87	1963 Jan 31 0851:51	Atlas D	-	176D	Nike TV-22	NTMP K-12	FAINT CLICK	-	V	576A3	-	-	1800?	-	-
1963-S46	2438074.00	1963 Feb 13 1155:05	Atlas D	-	182D	Nike TV-23/NC20.133	NTMP K-8	FLAG RACE	-	V	576A1	-	-	1800?	-	-
1963-S72	2438088.88	1963 Feb 28 0902:48	Atlas D	-	188D	Nike TV-22	NTMP K-10	PITCH PINE	-	V	576A3	-	-	1800?	-	-
1963-S78	2438090.38	1963 Mar 1 2100	Atlas F	-	134F	ABRES REX-I/Pod 1	-	-	-	CC	LC11	-	-	1800?	-	-
1963-A34	2438098.61	1963 Mar 10 0242	Atlas D	-	102D	Mk 3 RV	OT	TALL TREE 3	-	V	576B3	-	-	0	-	-
1963-S89	2438100.72	1963 Mar 12 0521	Atlas D	-	64D	Mk 3 RV	OT	TALL TREE 2	-	V	576B2	-	-	1800?	-	-
1963-S98	2438103.98	1963 Mar 15 1138	Atlas D	-	46D	Mk 3 RV	OT TALL TREE 1	TALL TREE 1	-	V	576B1	-	-	300?	-	-
1963-S100	2438104.59	1963 Mar 16 0205:40	Atlas F	-	63F	Mk 4-5B	OT TALL TREE 5	TALL TREE 5	-	V	576D	-	-	1400?	-	-
1963-S102	2438104.86	1963 Mar 16 0832:22	Atlas D	-	193D	Nike TV-23/NC20.145	NTMP K-14	LEADING EDGE	-	V	576A1	-	-	300?	-	-
1963-S111	2438110.38	1963 Mar 21 2110:08	Atlas F	-	83F	Mk 4-5B	R&D	KENDALL GREEN	-	V	OSTF2	-	-	1400?	-	-
1963-A43	2438112.52	1963 Mar 24 0029:14	Atlas F	-	52F	Mk 4 RV?	OT TALL TREE 4	TALL TREE 4	-	V	576E	-	-	10?	-	-
1963-S174	2438144.37	1963 Apr 24 2059:36	Atlas E	-	65E	Mk 4-5B	R&D	BLACK BUCK	-	V	OSTF1	-	-	1600?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S180	2438146.59	1963 Apr 27 0203	Atlas F	-	135F	ABRES REX-II/Decoy	-	-	-	CC	LC11	-	-	1400?	-	-
1963-014	2438159.34	1963 May 9 2006:16	Atlas Agena B	-	119D/1206	Midas 7	Midas ETS-III F2	DAMP CLAY	-	PA	LC1-2	-	-	7423	-	-
1963-015	2438165.04	1963 May 15 1304:13	Atlas D	-	130D	MA-9	Mercury SC20	-	-	CC	LC14	-	-	265	-	-
1963-A86	2438182.52	1963 Jun 2 0026	Atlas F	-	77F	Mk 4 RV	-	-	-	WLK	579-1	-	-	0	-	-
1963-S258	2438185.34	1963 Jun 4 2012:18	Atlas E	-	62E	Mk 4-5	R&D	DOCK HAND	-	V	OSTF1	-	-	1600?	-	-
1963-S271	2438192.88	1963 Jun 12 0903:01	Atlas D	-	198D	Nike TV-23	NTMP K-15	HARPOON GUN	-	V	576A3	-	-	1800?	-	-
1963-F09	2438192.50	1963 Jun 12	Atlas Agena B	-	139D/1204	Midas 8	Midas ETS-III F3	BIG FOUR	-	PA	LC1-2	-	-	20?	-	-
1963-S328	2438214.38	1963 Jul 3 2113:57	Atlas E	-	69E	Nike TV-32	OT DASO/NTMP	GO BOY	-	V	576C	-	-	1600?	-	-
1963-028	2438223.37	1963 Jul 12 2045:59	Atlas Agena D	-	201D/4702	AFP-206	GAMBIT SV 951	FISH POOL	-	PA	LC2-3	-	-	216	-	-
1963-030	2438229.66	1963 Jul 19 0351:18	Atlas Agena B	-	75D/1207	Midas 9	Midas ETS-III F4	DAMP DUCK	-	PA	LC1-2	-	-	6398	-	-
1963-S361	2438237.30	1963 Jul 26 1919:00	Atlas E	-	24E	Mk 4-5B	OT DASO	SILVER DOLL	-	V	OSTF1	-	-	300?	-	-
1963-S369	2438241.28	1963 Jul 30 1836:49	Atlas E	-	70E	Mk 4-5B	OT DASO	BIG FLIGHT	-	V	576C	-	-	1600?	-	-
1963-S372	2438242.37	1963 Jul 31 2052	Atlas D	-	143D	Mk 5-5B	ST COOL WATER I	COOL WATER I	-	V	576B1	-	-	1000	-	-
1963-S405	2438265.91	1963 Aug 24 0950:57	Atlas E	-	72E	Nike TVX-13	OT DASO/NTMP K-28	PIPE DREAM	-	V	576F	-	-	1600?	-	-
1963-S409	2438270.47	1963 Aug 28 2310	Atlas D	-	142D	Mk 11-5B	ST COOL WATER II	COOL WATER II	-	V	576B3	-	-	1800?	-	-
1963-036	2438279.31	1963 Sep 6 1930:18	Atlas Agena D	-	212D/4701	AFP-206	GAMBIT SV 952	FIXED FEE	-	PA	LC2-3	-	-	277	-	-
1963-S434	2438279.42	1963 Sep 6 2159	Atlas D	-	63D	Mk 11-5B	ST COOL WATER III	COOL WATER III	-	V	576B2	-	-	200?	-	-
1963-S440	2438284.38	1963 Sep 11 2100	Atlas D	-	84D	Mk 11-5B	ST COOL WATER IV	COOL WATER IV	-	V	576B1	-	-	1700?	-	-
1963-S458	2438297.96	1963 Sep 25 1104:41	Atlas E	-	71E	Nike TV-32	OT DASO/NTMP	FILTER TIP	-	V	576C	-	-	100?	-	-
1963-A139	2438306.72	1963 Oct 4 0517:49	Atlas F	-	45F	Mk 4-5B	R&D	HOT RUM	-	V	576G	-	-	0	-	-
1963-A142	2438310.40	1963 Oct 7 2131	Atlas D	-	163D	Mk 11-5B	ST COOL WATER V	COOL WATER V	-	V	576B3	-	-	10?	-	-
1963-039	2438319.61	1963 Oct 17 0237	Atlas Agena D	-	197D/1801	Vela 1A/1B	Vela 1A	-	-	CC	LC13	-	-	150000	-	-
1963-041	2438328.29	1963 Oct 25 1859:27	Atlas Agena D	-	224D/4703	AFP-206	GAMBIT SV 953	HAY BAILER	-	PA	LC2-3	-	-	313	-	-
1963-S521	2438330.64	1963 Oct 28 0315	Atlas F	-	136F	ABRES WAC-1/Pod 21	-	-	-	CC	LC11	-	-	500?	-	-
1963-S535	2438337.90	1963 Nov 4 0934	Atlas D	-	232D	ABRES REX-III	-	HICKORY HOLLOW	-	V	576A1	-	-	1800?	-	-
1963-S550	2438347.44	1963 Nov 13 2235:39	Atlas D	-	158D	Mk 11-5B	ST COOL WATER VI	COOL WATER VI	-	V	576B2	-	-	100	-	-
1963-047	2438361.29	1963 Nov 27 1903:23	Atlas Centaur	-	AC-2	Centaur R&D	AC-2	-	-	CC	LC36A	-	-	1779	-	-
1963-S609	2438381.91	1963 Dec 18 0952:27	Atlas D	-	233D	ABRES LORV-8	-	LENS COVER	-	V	576A1	-	-	1800?	-	-
1963-051	2438382.41	1963 Dec 18 2145:30	Atlas Agena D	-	227D/4802	AFP-206	GAMBIT SV 954	REST EASY	-	PA	LC2-3	-	-	271	-	-
1963-S610	2438382.46	1963 Dec 18 2256:22	Atlas F	-	109F	Mk 4-5A	R&D	DAY BOOK	-	V	576G	-	-	1400?	-	-
1964-007	2438425.16	1964 Jan 30 1549:09	Atlas Agena B	-	199D/6008 (AA8)	Ranger 6	RA-6	-	-	CC	LC12	-	-	150000	-	-
1964-A23	2438438.33	1964 Feb 12 1959:40	Atlas E	-	48E	Mk 11 RV	ST	BLUE BAY	-	V	576F	-	-	0?	-	-
1964-A24	2438439.26	1964 Feb 13 1811	Atlas F	-	88F	Mk 4 RV	-	-	-	WLK	579-5	-	-	0	-	-
1964-009	2438451.29	1964 Feb 25 1859:47	Atlas Agena D	-	285D/4803	AFP-206	GAMBIT SV 955	UPPER OCTANE	-	PA	LC2-3	-	-	227	-	-
1964-S118	2438451.35	1964 Feb 25 2022	Atlas E	-	5E	ABRES WAC-3/Pod 18	-	-	-	CC	LC11	-	-	1600?	-	-
1964-A32	2438464.41	1964 Mar 9 2154	Atlas F	-	90F	Mk 4 RV	-	-	-	WLK	579-2	-	-	0	-	-
1964-012	2438466.34	1964 Mar 11 2014:24	Atlas Agena D	-	296D/4804	AFP-206	GAMBIT SV 956	INK BLOTTER	-	PA	LC2-3	-	-	241	-	-
1964-S184	2438487.35	1964 Apr 1 2022	Atlas F	-	137F	ABRES WAC-2/Pod 2	-	-	-	CC	LC11	-	-	1400?	-	-
1964-A50	2438489.35	1964 Apr 3 2026:22	Atlas F	-	3F	Mk 4-5B	DASO	HIGH BALL	-	V	576G	-	-	0	-	-
1964-U02	2438500.40	1964 Apr 14 2142:25	Atlas D	-	263D	FIRE 1	FIRE 1	-	-	CC	LC12	-	-	837	-	-
1964-020	2438509.28	1964 Apr 23 1843	Atlas Agena D	-	351D/4805	AFP-206	GAMBIT SV 957	ANCHOR DAN	-	PA	LC2-3	-	-	372	-	-
1964-A69	2438530.20	1964 May 14 1650	Atlas F	-	61F	Mk 4	-	-	-	ALT	577-6	-	-	0	-	-
1964-024	2438535.31	1964 May 19 1921:14	Atlas Agena D	-	350D/4806	AFP-206	GAMBIT SV 958	BIG FRED	-	PA	LC2-3	-	-	386	-	-
1964-S300	2438565.12	1964 Jun 18 1456:13	Atlas D	-	243D	ABRES LORV-1/Pod 31/GTV1	-	IRON LUNG	-	V	576A1	-	-	1800?	-	-
1964-F09	2438577.09	1964 Jun 30 1404:22	Atlas Centaur	-	AC-3	Centaur R&D	AC-3	-	-	CC	LC36A	-	-	500?	-	-
1964-036	2438583.29	1964 Jul 6 1851:18	Atlas Agena D	-	352D/4807	AFP-206	GAMBIT SV 959	QUARTER ROUND	-	PA	LC2-3	-	-	391	-	-
1964-040	2438593.85	1964 Jul 17 0822	Atlas Agena D	-	216D/1802?	Vela 2A/2B	Vela 2A	-	-	CC	LC13	-	-	150000	-	-
1964-041	2438605.20	1964 Jul 28 1650:07	Atlas Agena B	-	250D/6009 (AA9)	Ranger 7	Ranger 7	-	-	CC	LC12	-	-	150000	-	-
1964-S387	2438605.89	1964 Jul 29 0922:56	Atlas D	-	248D	Nike TVX-30/TV-32 x2	NTMP KX-13	KNOCK WOOD	-	V	576A3	-	-	1800?	-	KMR
1964-S412	2438615.34	1964 Aug 7 2012	Atlas F	-	110F	Mk 4-5B	DASO	LARGE CHARGE	-	V	576E	-	-	1400?	-	-
1964-045	2438622.42	1964 Aug 14 2200:13	Atlas SLV-3 Agena D	-	7101/4808	AFP-206	GAMBIT SV 960	BIG SICKLE	-	VS	PALC2-4	-	-	3751	-	-
1964-S446	2438634.91	1964 Aug 27 0954:00	Atlas E	-	57E	Mk 4E-5B	NTMP KX-48	GALLANT GAL	-	V	576F	-	-	1600?	-	KMR
1964-S454	2438639.16	1964 Aug 31 1546:17	Atlas F	-	36F	Mk 4-5B	DASO	BIG DEAL	-	V	576D	-	-	1400?	-	-
1964-054	2438643.56	1964 Sep 5 0123	Atlas Agena B	-	195D/6501 (AA10)	OGO 1	OGO A	-	-	CC	LC12	-	-	150000	-	-
1964-S469	2438654.14	1964 Sep 15 1527	Atlas D	-	245D	ABRES LORV-3/Pod 26/GTV3	-	BUTTERFLY NET	-	V	576A1	-	-	1800?	-	-
1964-S477	2438661.05	1964 Sep 22 1310	Atlas D	-	247D	Nike TVX-30/TV-32 x2	NTMP KX-19	BUZZING BEE	-	V	576A3	-	-	1800?	-	KMR
1964-058	2438662.34	1964 Sep 23 2005	Atlas SLV-3 Agena D	-	7102/4809	AFP-206	GAMBIT SV 962	SLOW PACE	-	VS	PALC2-4	-	-	302	-	-
1964-F11	2438676.31	1964 Oct 7 1930	Atlas SLV-3 Agena D	-	7103/4810	AFP-206	GAMBIT SV 961	BUSY LINE	-	VS	PALC2-4	-	-	140?	-	-
1964-068	2438692.27	1964 Oct 23 1827	Atlas Agena D	-	353D/4811	AFP-206	GAMBIT SV 963	BOON DOCKER	-	VS	PALC2-3	-	-	343	-	-
1964-073	2438705.31	1964 Nov 5 1922:05	Atlas Agena D	-	289D/6931 (AA11)	Mariner 3	Mariner C-2	-	-	CC	LC13	-	-	150000	-	-
1964-077	2438728.10	1964 Nov 28 1422:01	Atlas Agena D	-	288D/6932 (AA12)	Mariner 4	Mariner C-3	-	-	CC	LC12	-	-	150000	-	-
1964-S665	2438730.86	1964 Dec 1 0845:04	Atlas D	-	210D	ABRES LORV-5/GTV4	-	BROOK TROUT	-	V	576A1	-	-	1800?	-	-
1964-S668	2438733.96	1964 Dec 4 1109:17	Atlas D	-	300D	Nike RMV-303	NTMP KX-11	OPERA GLASS	-	V	576A3	-	-	1800?	-	KMR
1964-079	2438734.29	1964 Dec 4 1900	Atlas SLV-3 Agena D	-	7105/4813	AFP-206	GAMBIT SV 964	BATTLE ROYAL	-	VS	PALC2-4	-	-	358	-	-
1964-082	2438741.10	1964 Dec 11 1425:02	Atlas Centaur	-	AC-4	Surveyor Model	Surveyor Model	-	-	CC	LC36A	-	-	195	-	-
1964-S700	2438752.30	1964 Dec 22 1915:20	Atlas F	-	111F	Mk 4-5B	ST	STEP OVER	-	V	576E	-	-	1400?	-	-
1965-S31	2438769.29	1965 Jan 8 1859:54	Atlas F	-	106F	Mk 4-5B	ST	PILOT LIGHT	-	V	576G	-	-	1400?	-	-
1965-S33	2438773.11	1965 Jan 12 1432:26	Atlas D	-	166D	Nike RMV-302	NTMP KX-25	PENCIL SET	-	V	576B1	-	-	1800?	-	-
1965-F01	2438782.40	1965 Jan 21 2134:54	Atlas D	-	172D	ABRES MTV-1/OV1-1	OV1-1	BEAVERS DAM	-	V	576B3	-	-	560?	-	-
1965-005	2438784.34	1965 Jan 23 2006	Atlas SLV-3 Agena D	-	7106/4812	AFP-206	GAMBIT SV 965	SAND LARK	-	VS	PALC2-3	-	-	293	-	-
1965-010	2438809.21	1965 Feb 17 1705:00	Atlas Agena B	-	196D/6006 (AA13)	Ranger 8	RA-8	-	-	CC	LC12	-	-	150000	-	-
1965-S107	2438818.97	1965 Feb 27 1111:16	Atlas D	-	211D	ABRES LORV-4	-	DRAG BAR	-	V	576A1	-	-	1800?	-	KMR
1965-S125	2438821.91	1965 Mar 2 0952:31	Atlas D	-	301D	Nike RMV-301	NTMP KX-30	PORK BARREL	-	V	576A3	-	-	1800?	-	KMR
1965-F04	2438822.06	1965 Mar 2 1325	Atlas Centaur	-	AC-5	SD-1	Surveyor SD-1	-	-	CC	LC36A	-	-	0	-	-
1965-019	2438832.31	1965 Mar 12 1920	Atlas SLV-3 Agena D	-	7104/4816	AFP-206	GAMBIT SV 966	SHIP RAIL	-	VS	PALC2-3	-	-	300	-	-
1965-S155	2438832.47	1965 Mar 12 2321:52	Atlas D	-	154D	MTV-2	ABRES MTV-2	ANGEL CAMP	-	V	576B3	-	-	1800?	-	ENW
1965-023	2438841.40	1965 Mar 21 2137:02	Atlas Agena B	-	204D/6007 (AA14)	Ranger 9	RA-9	-	-	CC	LC12	-	-	150000	-	-
1965-S196	2438845.88	1965 Mar 26 0901:11	Atlas D	-	297D	LORV-7	ABRES LORV-7	FRESH FROG	-	V	576A1	-	-	1800?	-	-
1965-027	2438854.39	1965 Apr 3 2125	Atlas SLV-3 Agena D	-	7401/7001	SNAPSHOT	SNAP-10A FS-4	AIR PUMP	-	VS	PALC2-4	-	-	1330	-	-
1965-S219	2438857.07	1965 Apr 6 1334:59	Atlas D	-	150D	WAC IV	ABRES WAC-4	FLIP SIDE	-	V	576B1	-	-	1800?	-	KMR
1965-031	2438879.39	1965 Apr 28 2115	Atlas SLV-3 Agena D	-	7107/4814	AFP-206	GAMBIT SV 967	DWARF TREE	-	VS	PALC2-4	-	-	559	-	-
1965-U04	2438903.41	1965 May 22 2155:00	Atlas D	-	264D	FIRE 2	FIRE 2	-	-	CC	LC12	-	-	817	-	-
1965-041	2438908.37	1965 May 27 2048	Atlas SLV-3 Agena D	-	7108/4815	AFP-206	GAMBIT SV 968	BOTTOM LAND	-	VS	PALC2-4	-	-	267	-	-
1965-F06	2438908.62	1965 May 28 0254:56	Atlas D	-	68D	OV1-3/Mk 3 RV	OV1-3	TENNIS MATCH	-	V	ABRESB3	-	-	150?	-	-
1965-S340	2438914.94	1965 Jun 3 1038:09	Atlas D	-	177D	Nike RMV-304	NTMP KX-40	OLD FOGEY	-	V	ABRESB2	-	-	1800?	-	KMR
1965-S349	2438920.14	1965 Jun 8 1517:03	Atlas D	-	299D	LORV 6	ABRES LORV-6	LEA RING	-	V	ABRESA1	-	-	1800?	-	KMR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S352	2438922.02	1965 Jun 10 1226:40	Atlas D	-	302D	Nike RMV-303	NTMP KX-29	STOCK BOY	-	V	ABRESA3	-	-	1800?	-	KMR
1965-050	2438937.31	1965 Jun 25 1930	Atlas SLV-3 Agena D	-	7109/4817	AFP-206	P-11 No. 4402	WORN FACE	-	VS	PALC2-4	-	-	516	-	-
1965-S416	2438942.91	1965 Jul 1 0954:11	Atlas D	-	59D	Nike RMV-301	NTMP KX-32	BLIND SPOT	-	V	ABRESB1	-	-	1800?	-	-
1965-F07	2438954.29	1965 Jul 12 1900	Atlas SLV-3 Agena D	-	7112/4819	AFP-206	GAMBIT SV 970	WHITE PINE	-	VS	PALC2-4	-	-	170?	-	-
1965-058	2438961.85	1965 Jul 20 0827	Atlas Agena D	-	225D/1803	Vela 3A/3B	Vela 3A	-	-	CC	LC13	-	-	150000	-	-
1965-062	2438976.30	1965 Aug 3 1906	Atlas SLV-3 Agena D	-	7111/4818	AFP-206	GAMBIT SV 971	WATER TOWER	-	VS	PALC2-4	-	-	509	-	-
1965-S443	2438977.03	1965 Aug 4 1243:08	Atlas D	-	183D	WAC-5	ABRES WAC-5	PIANO WIRE	-	V	ABRESB1	-	-	1800?	-	-
1965-S444	2438978.06	1965 Aug 5 1321:28	Atlas F	-	147F	LORV L-2/GTV5	ABRES LORV-2A	SEA TRAMP	-	V	ABRESA2	-	-	1400?	-	-
1965-064	2438984.10	1965 Aug 11 1431:04	Atlas Centaur D	-	AC-6	SD-2	Surveyor SD-2	-	-	CC	LC36B	-	-	150000	-	-
1965-S480	2438998.97	1965 Aug 26 1120:14	Atlas D	-	61D	Nike RMV-304	NTMP KX-41	TONTO RIM	-	V	ABRESB2	-	-	1800?	-	KMR
1965-S521	2439032.94	1965 Sep 29 1040	Atlas D	-	125D	Nike RMV-303	NTMP KX-45	WATER SNAKE	-	V	ABRESB1	-	-	1800?	-	-
1965-076	2439034.31	1965 Sep 30 1923:38	Atlas SLV-3 Agena D	-	7110/4821	AFP-206	GAMBIT SV 972	LOG FOG	-	VS	PALC2-4	-	-	264	-	-
1965-078	2439038.88	1965 Oct 5 0907:08	Atlas D	-	34D/NB20.170 RS	OV1-2/Pod 29	OV1-2S	SEETHING CITY	-	V	ABRESB3	-	-	3455	-	-
1965-F11	2439059.12	1965 Oct 25 1500	Atlas SLV-3 Agena D	-	5301/5002	GATV 5002	TDA-2	-	-	CC	LC14	-	-	294	-	-
1965-090	2439073.31	1965 Nov 8 1930	Atlas SLV-3 Agena D	-	7113/4822	AFP-206	GAMBIT SV 973	SHOP DEGREE	-	VS	PALC2-4	-	-	284	-	-
1965-S654	2439094.10	1965 Nov 29 1430:13	Atlas D	-	200D	Nike RMV-302/Pod 27	NTMP KX-33	WILD GOAT	-	V	ABRESA1	-	-	1800?	-	-
1965-S692	2439115.07	1965 Dec 20 1339:56	Atlas D	-	85D	Nike RMV-303	NTMP KX-31	TAG DAY	-	V	ABRESB2	-	-	1800?	-	-
1966-002	2439145.34	1966 Jan 19 2003	Atlas SLV-3 Agena D	-	7114/4825	AFP-206	GAMBIT SV 974	BLANKET PARTY	-	VS	PALC2-4	-	-	260	-	-
1966-S104	2439166.91	1966 Feb 10 0948:46	Atlas D	-	305D	Nike RMV-303/Pod 32	NTMP KX-38	YEAST CAKE	-	V	ABRESA1	-	-	1800?	-	-
1966-S110	2439168.05	1966 Feb 11 1304:53	Atlas D	-	86D	Nike RMV-304	NTMP KX-51	LONELY MOUNTAIN	-	V	ABRESB2	-	-	1800?	-	-
1966-012	2439172.35	1966 Feb 15 2030	Atlas SLV-3 Agena D	-	7115/4820	AFP-206	GAMBIT SV 975	MUCHO GRANDE	-	VS	PALC2-4	-	-	290	-	-
1966-S119	2439175.91	1966 Feb 19 0956:42	Atlas D	-	73D	Nike RMV-301	NTMP KX-47	SYCAMORE RIDGE	-	V	ABRESB1	-	-	1800?	-	-
1966-S150	2439189.02	1966 Mar 4 1229:55	Atlas D	-	303D	Nike RMV-303	NTMP KX-35	ETERNAL CAMP	-	V	ABRESA1	-	-	500?	-	-
1966-019	2439201.13	1966 Mar 16 1500:03	Atlas SLV-3 Agena D	-	5302/5003	GATV 5003	TDA 3	-	-	CC	LC14	-	-	392	-	-
1966-022	2439203.33	1966 Mar 18 2000	Atlas SLV-3 Agena D	-	7116/4823	AFP-206	GAMBIT SV 976	DUMB DORA	-	VS	PALC2-4	-	-	301	-	-
1966-S175	2439204.01	1966 Mar 19 1220:00	Atlas D	-	304D	Nike RMV-301	NTMP KX-43	WHITE BEAR	-	V	ABRESA1	-	-	1800?	-	-
1966-025	2439214.89	1966 Mar 30 0920:12	Atlas D	-	72D/NB20.152 RS	OV1-4/OV1-5/Pod 28	OV1-4S	BRONZE BELL	-	V	ABRESB3	-	-	1094	-	-
1966-030	2439223.54	1966 Apr 8 0100:02	Atlas Centaur D	-	AC-8	SM-2	Surveyor Model 2 (SM-2)	-	-	CC	LC36B	-	-	344	-	-
1966-031	2439224.32	1966 Apr 8 1935:00	Atlas SLV-3 Agena D	-	5001/6703 (AA15)	OAO A1	OAO A1	-	-	CC	LC12	-	-	809	-	-
1966-032	2439235.30	1966 Apr 19 1915	Atlas SLV-3 Agena D	-	7117/4827	AFP-206	GAMBIT SV 977	SHALLOW STREAM	-	VS	PALC2-4	-	-	398	-	-
1966-S250	2439248.94	1966 May 3 1030:20	Atlas D	-	208D	Nike RMV-303	NTMP KX-37	CRAB CLAW	-	V	ABRESA1	-	-	500?	-	-
1966-S262	2439258.99	1966 May 13 1143:52	Atlas D	-	98D	ABRES WAC-5A/GTV-5A	-	SUPPLY ROOM	-	V	ABRESB1	-	-	1800?	-	-
1966-039	2439260.29	1966 May 14 1902	Atlas SLV-3 Agena D	-	7118/4824	AFP-206	GAMBIT SV 978	PUMP HANDLE	-	VS	PALC2-4	-	-	555	-	-
1966-F07	2439263.14	1966 May 17 1515:03	Atlas SLV-3 Agena D	-	5303/5004	GATV 5004	TDA 5	-	-	CC	LC14	-	-	116	-	-
1966-S281	2439272.00	1966 May 26 1204:27	Atlas D	-	41D	Nike RMV-301	NTMP KX-27	SAND SHARK	-	V	ABRESB2	-	-	1800?	-	-
1966-045	2439276.11	1966 May 30 1441:01	Atlas Centaur D	-	AC-10	Surveyor 1	Surveyor SC-1	-	-	CC	LC36A	-	-	150000	-	-
1966-046	2439278.13	1966 Jun 1 1500:02	Atlas SLV-3	-	5304	GATV ATDA	TDA 4	-	-	CC	LC14	-	-	346	-	-
1966-048	2439280.31	1966 Jun 3 1925	Atlas SLV-3 Agena D	-	7119/4826	AFP-206	GAMBIT SV 979	POWER DRILL	-	VS	PALC2-4	-	-	288	-	-
1966-049	2439283.62	1966 Jun 7 0248	Atlas SLV-3 Agena B	-	5601/6502 (AA16)	OGO B	OGO B	-	-	CC	LC12	-	-	121951	-	-
1966-051	2439286.34	1966 Jun 9 2015	Atlas SLV-3 Agena D	-	7201/1351	FTV 1351	Midas RTS-I F1	MAMAS BOY	-	VS	PALC1-2	-	-	3676	-	-
1966-S309	2439286.97	1966 Jun 10 1115	Atlas D	-	96D	Nike RMV-302	NTMP KX-42	VENEER PANEL	-	V	ABRESB1	-	-	1800?	-	-
1966-S343	2439303.15	1966 Jun 26 1534:47	Atlas D	-	147D	Nike RMV-302	NTMP KX-20	GOLDEN MOUNTAIN	-	V	ABRESB2	-	-	1800?	-	-
1966-S357	2439306.92	1966 Jun 30 1000	Atlas D	-	298D	Nike RMV-303	NTMP KX-39/RMP-A	HEAVY ARTILLERY	-	V	ABRESA1	-	-	1800?	-	-
1966-062	2439319.25	1966 Jul 12 1755	Atlas SLV-3 Agena D	-	7120/4828	AFP-206	GAMBIT SV 980	SNAKE CREEK	-	VS	SLC4E	-	-	294	-	-
1966-063	2439320.59	1966 Jul 14 0210:02	Atlas D	-	58D	OV1-7/8/NC20.189	OV1-8 PasComSat	STONY ISLAND	-	V	ABRESB3	-	-	1047	-	-
1966-065	2439325.36	1966 Jul 18 2039:46	Atlas SLV-3 Agena D	-	5305/5005	GATV	TDA 1A	-	-	CC	LC14	-	-	351	-	-
1966-S430	2439346.24	1966 Aug 8 1747:38	Atlas F	-	149F	MBRV No. 5778600	ABRES MBRV-1	BUSY RAMROD	-	V	ABRESA2	-	-	200?	-	-
1966-073	2439348.31	1966 Aug 10 1926:00	Atlas SLV-3 Agena D	-	5801/6630 (AA17)	Lunar Orbiter 1	Lunar Orbiter A	-	-	CC	LC13	-	-	150000	-	-
1966-074	2439354.27	1966 Aug 16 1830	Atlas SLV-3 Agena D	-	7121/4829	AFP-206	GAMBIT SV 981	SILVER DOLL	-	VS	SLC4E	-	-	526	-	-
1966-077	2439357.31	1966 Aug 19 1925	Atlas SLV-3 Agena D	-	7202/1352	FTV 1352	Midas RTS-I F2	HAPPY MOUNTAIN	-	VS	SLC3E	-	-	3722	-	-
1966-080	2439381.05	1966 Sep 12 1305:02	Atlas SLV-3 Agena D	-	5306/5006	GATV	TDA 6	-	-	CC	LC14	-	-	317	-	-
1966-083	2439385.25	1966 Sep 16 1759	Atlas SLV-3 Agena D	-	7123/4832	AFP-206	GAMBIT SV 982	TAXI DRIVER	-	VS	SLC4E	-	-	498	-	-
1966-084	2439389.02	1966 Sep 20 1232:00	Atlas Centaur D	-	AC-7	Surveyor 2	Surveyor SC-2	-	-	CC	LC36A	-	-	150000	-	-
1966-089	2439404.42	1966 Oct 5 2200	Atlas SLV-3 Agena D	-	7203/1353	FTV 1353	Midas RTS-I F3	DWARF KILLER	-	VS	SLC3E	-	-	3726	-	-
1966-M37	2439410.33	1966 Oct 11 1959:41	Atlas F	-	115F	Simulated BGRV 1	ABRES BGRV-1	LOW HILL	-	V	ABRESA2	-	-	40	-	-
1966-090	2439411.30	1966 Oct 12 1915	Atlas SLV-3 Agena D	-	7122/4830	AFP-206	GAMBIT SV 983	GLEAMING STAR	-	VS	SLC4E	-	-	291	-	-
1966-095	2439424.97	1966 Oct 26 1112:02	Atlas Centaur D	-	AC-9	SM-3	Surveyor SM-3	-	-	CC	LC36B	-	-	150000	-	-
1966-098	2439432.35	1966 Nov 2 2024	Atlas SLV-3 Agena D	-	7124/4831	AFP-206	GAMBIT SV 984	RED CABOOSE	-	VS	SLC4E	-	-	311	-	-
1966-100	2439436.47	1966 Nov 6 2321:00	Atlas SLV-3 Agena D	-	5802/6631 (AA18)	Lunar Orbiter 2	Lunar Orbiter B	-	-	CC	LC13	-	-	150000	-	-
1966-103	2439441.30	1966 Nov 11 1907:59	Atlas SLV-3 Agena D	-	5307/5001R	GATV	TDA 7A	-	-	CC	LC14	-	-	313	-	-
1966-109	2439465.38	1966 Dec 5 2109	Atlas SLV-3 Agena D	-	7125/4833	AFP-206	GAMBIT SV 985	BUSY MERMAID	-	VS	SLC4E	-	-	392	-	-
1966-110	2439466.59	1966 Dec 7 0212:01	Atlas SLV-3 Agena D	-	5101/6151 (AA19)	ATS 1	ATS B	-	-	CC	LC12	-	-	36886	-	-
1966-111	2439471.38	1966 Dec 11 2109:57	Atlas D	-	89D	OV1-9/10	OV1-9	BUSY PANAMA	-	V	ABRESB3	-	-	4826	-	-
1966-U08	2439481.43	1966 Dec 21 2215:02	Atlas SLV-3	-	7001	SV-5D	SV-5D FV-1	BUSY PEACOCK	-	VS	SLC3E	-	-	1500?	-	-
1967-S63	2439508.57	1967 Jan 18 0134	Atlas F	-	148F	TVX-13	ABRES TVX-13 (21)	BUSY STEPSON	-	V	ABRESA2	-	-	1400?	-	KMR
1967-S67	2439513.16	1967 Jan 22 1544:54	Atlas D	-	35D	Mk 12R PDV	ABRES Mk 12R PDV	BUSY NIECE	-	V	ABRESB2	-	-	1800?	-	KMR
1967-007	2439524.33	1967 Feb 2 2000	Atlas SLV-3 Agena D	-	7126/4834	AFP-206	GAMBIT SV 986	BUSY PARTY	-	VS	SLC4E	-	-	370	-	-
1967-008	2439526.55	1967 Feb 5 0117:01	Atlas SLV-3 Agena D	-	5803/6632 (AA20)	Lunar Orbiter 3	Lunar Orbiter C	-	-	CC	LC13	-	-	150000	-	-
1967-S120	2439535.42	1967 Feb 13 2205	Atlas F	-	121F	TVX-22	ABRES TX-22	BUSY BOXER	-	V	ABRESA3	-	-	1400?	-	KMR
1967-U02	2439555.46	1967 Mar 5 2305	Atlas SLV-3	-	7002	SV-5D	SV-5D FV-2	GIANT CHIEF	-	VS	SLC3E	-	-	1500?	-	-
1967-S159	2439566.25	1967 Mar 16 1756	Atlas F	-	151F	MBRV No. 601	ABRES MBRV-2	LITTLE CHURCH	-	V	ABRESA2	-	-	1400?	-	-
1967-031	2439586.64	1967 Apr 6 0323:01	Atlas SLV-3 Agena D	-	5102/6152 (AA21)	ATS 2	ATS A	-	-	CC	LC12	-	-	11180	-	-
1967-S198	2439587.97	1967 Apr 7 1119:23	Atlas D	-	38D	Mk 11 AX-1 RV/Pod 30	ABRES AX-1	BUSY SUNRISE	-	V	ABRESB2	-	-	1800?	-	KMR
1967-035	2439597.80	1967 Apr 17 0705:01	Atlas Centaur D	-	AC-12	Surveyor 3	Surveyor SC-3	-	-	CC	LC36B	-	-	150000	-	-
1967-U03	2439600.57	1967 Apr 20 0135:01	Atlas SLV-3	-	7003	SV-5D	SV-5D FV-3	BUSY TOURNAMENT	-	VS	SLC3E	-	-	1500?	-	-
1967-041	2439615.43	1967 May 4 2225:00	Atlas SLV-3 Agena D	-	5804/6633 (AA22)	Lunar Orbiter 4	Lunar Orbiter D	-	-	CC	LC13	-	-	150000	-	-
1967-S266	2439630.42	1967 May 19 2200	Atlas F	-	119F	Simulated BGRV 2	ABRES BGRV-2	BUSY PIGSKIN	-	V	ABRESA1	-	-	40	-	-
1967-050	2439633.27	1967 May 22 1830	Atlas SLV-3 Agena D	-	7127/4838	AFP-206	GAMBIT SV 987	BUSY CAMPER	-	VS	SLC4E	-	-	354	-	-
1967-055	2439646.25	1967 Jun 4 1807:01	Atlas SLV-3 Agena D	-	7128/4837	AFP-206	GAMBIT SV 988	BUSY WOLF	-	VS	SLC4E	-	-	458	-	-
1967-S299	2439650.93	1967 Jun 9 1023	Atlas F/Trident	-	122F (KX-101)	RMV-310/SPDS	ABRES RMP-B-1/NTMP KX101	BUCK TYPE	-	V	ABRESA3	-	-	1400?	-	-
1967-060	2439655.75	1967 Jun 14 0601:00	Atlas SLV-3 Agena D	-	5401/6933 (AA23)	Mariner 5	Mariner 67-2	-	-	CC	LC12	-	-	150000	-	-
1967-S338	2439677.50	1967 Jul 6	Atlas D	-	65D	Mk 12 RV?	ABRES PDV	-	-	V	ABRESB2	-	-	1800?	-	-
1967-068	2439686.00	1967 Jul 14 1153:29	Atlas Centaur D	-	AC-11	Surveyor 4	Surveyor SC-4	-	-	CC	LC36A	-	-	150000	-	-
1967-S354	2439693.50	1967 Jul 22	Atlas F/Trident	-	114F	RMV-320/RMV-410A	ABRES RMP-B-2/NTMP KX102	-	-	V	ABRESA3	-	-	1400?	-	-
1967-072	2439699.29	1967 Jul 27 1900:03	Atlas D	-	92D	OV1-11/12/86	OV1-8S	-	-	V	ABRESB3	-	-	616	-	-
1967-S359	2439700.87	1967 Jul 29 0848	Atlas F	-	150F	MBRV No. 5778602	ABRES MBRV-3	BREAD HOOK	-	V	ABRESA2	-	-	1400?	-	JI

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-075	2439704.44	1967 Aug 1 2233:00	Atlas SLV-3 Agena D	-	5805/6634 (AA24)	Lunar Orbiter 5	Lunar Orbiter E	-	-	CC	LC13	-	-	150000	-	-
1967-084	2439741.83	1967 Sep 8 0757:01	Atlas SLV-3C Centaur	-	AC-13	Surveyor 5	Surveyor 5	-	-	CC	LC36B	-	-	150000	-	-
1967-S486	2439774.98	1967 Oct 11 1130:03	Atlas D	-	69D	TVX-13	ABRES TVX-13	-	-	V	ABRESB3	-	-	1800?	-	-
1967-S492	2439777.50	1967 Oct 14	Atlas F	-	118F	MBRV No. 604	ABRES MBRV-4	-	-	V	ABRESA2	-	-	1400?	-	JI
1967-A131	2439791.05	1967 Oct 27 1310	Atlas F/Trident	-	81F	-	ABRES RMP-B-3/NTMP KX103	-	-	V	ABRESA3	-	-	1?	-	-
1967-111	2439800.48	1967 Nov 5 2337:00	Atlas SLV-3 Agena D	-	5103/6153 (AA25)	ATS 3	ATS C	-	-	CC	LC12	-	-	42159	-	-
1967-112	2439801.82	1967 Nov 7 0739:01	Atlas SLV-3C Centaur	-	AC-14	Surveyor 6	Surveyor SC-6	-	-	CC	LC36B	-	-	150000	-	-
1967-S527	2439802.05	1967 Nov 7 1317:54	Atlas D	-	94D	Mk 11A-5B AX-2	ABRES AX-2/PDV-3	-	-	V	ABRESB2	-	-	1800?	-	KMR
1967-S530	2439805.01	1967 Nov 10 1220	Atlas F	-	113F	BGRV S/N 1	ABRES BGRV-3	-	-	V	ABRESA1	-	-	40	-	-
1967-S591	2439845.90	1967 Dec 21 0938	Atlas F/Trident	-	117F	RMV-320/Decoys	ABRES RMP-B-4/NTMP KX106	-	-	V	ABRESA3	-	-	1400?	-	-
1968-001	2439862.77	1968 Jan 7 0630:00	Atlas SLV-3C Centaur	-	AC-15	Surveyor 7	Surveyor SC-7	-	-	CC	LC36A	-	-	150000	-	-
1968-S103	2439887.06	1968 Jan 31 1330	Atlas F/Trident	-	94F	RMV-320/Decoys	ABRES RMP-B-5/NTMP KX104	-	-	V	ABRESA3	-	-	1400?	-	-
1968-S151	2439913.82	1968 Feb 27 0735	Atlas F	-	116F	BGRV S/N 2	ABRES BGRV-4	-	-	V	ABRESA1	-	-	40	-	WAKE
1968-014	2439920.05	1968 Mar 4 1306:01	Atlas SLV-3A Agena D	-	5602A/6503 (AA26)	OGO 5	OGO E	-	-	CC	LC13	-	-	150000	-	-
1968-S168	2439921.93	1968 Mar 6 1015	Atlas E/Trident	-	74E	RMV-310/Decoys	ABRES RMP-B-6/NTMP KX105	-	-	V	ABRESA3	-	-	1600?	-	-
1968-026	2439952.92	1968 Apr 6 0959:42	Atlas F	-	107F	OV1-13/14	OV1-13	-	-	V	ABRESA2	-	-	9967	-	-
1968-S267	2439964.83	1968 Apr 18 0755	Atlas E	-	77E	WT1A-L4/WT1A-S1	ABRES RVTO-1A-1	-	-	V	ABRESA1	-	-	1600?	-	-
1968-S288	2439973.90	1968 Apr 27 0941	Atlas E/Trident	-	78E	RMV-320/Decoys	ABRES RMP-B-7/NTMP KX107	-	-	V	ABRESA3	-	-	1600?	-	-
1968-S303	2439980.09	1968 May 3 1408	Atlas F	-	95F	TVX-22/Decoys	ABRES Penaid TVX-22	-	-	V	ABRESA2	-	-	1?	-	KMR
1968-S356	2440008.50	1968 Jun 1	Atlas F	-	89F	Mk 12 RV Pre-Damaged	ABRES PDV	-	-	V	ABRESA2	-	-	1400?	-	-
1968-S382	2440029.50	1968 Jun 22	Atlas F/Trident	-	86F	RMV-340C	ABRES RMP-B-8/NTMP KX108	-	-	V	ABRESA3	-	-	1400?	-	-
1968-S387	2440036.92	1968 Jun 29 1012	Atlas F	-	32F	WT1A-L1/WT1A-S2	ABRES RVTO-1A-2	-	-	V	ABRESA1	-	-	1400?	-	-
1968-059	2440049.31	1968 Jul 11 1930	Atlas F	-	75F	OV1-15/16	OV1-15S	-	-	V	ABRESA2	-	-	1826	-	-
1968-063	2440074.96	1968 Aug 6 1108	Atlas SLV-3A Agena D	-	5501A/2801?	AFP-827	CANYON 1	-	-	CC	LC13	-	-	40266	-	-
1968-068	2440079.44	1968 Aug 10 2233:02	Atlas SLV-3C Centaur	-	AC-17	ATS 4	ATS D	-	-	CC	LC36A	-	-	777	-	-
1968-F07	2440085.37	1968 Aug 16 2057:44	Atlas Burner 2	-	7004	P68-1	UVR	-	-	VS	SLC3E	-	-	600?	-	-
1968-S509	2440125.00	1968 Sep 25 1154	Atlas F/Trident	-	99F	RMV-340B/RMV-430C/BSE	ABRES RMP-B-9/NTMP KX109	-	-	V	ABRESA3	-	-	1400?	-	-
1968-S513	2440126.50	1968 Sep 27	Atlas F	-	84F	WT1A-L2/WT1A-S3/PEM-IV	ABRES RVTO-1A-3	-	-	V	ABRESA1	-	-	1400?	-	KMR
1968-A111	2440177.00	1968 Nov 16 1200	Atlas F/Trident	-	56F	-	ABRES RMP-B-10/KX-110	-	-	V	ABRESA3	-	-	100?	-	-
1968-S608	2440185.01	1968 Nov 24 1210	Atlas F	-	60F	WT1A-L3/WT1A-S4	ABRES RVTO-1A-4	-	-	V	ABRESA1	-	-	1400?	-	KMR
1968-110	2440197.86	1968 Dec 7 0840:09	Atlas SLV-3C Centaur	-	AC-16	OAO 2	OAO A2	-	-	CC	LC36B	-	-	818	-	-
1969-S68	2440237.98	1969 Jan 16 1133	Atlas F/Trident	-	70F	RMV-340B/BSE	ABRES RMP-B-11/KX-111	-	-	V	ABRESA3	-	-	1400?	-	-
1969-014	2440277.56	1969 Feb 25 0129:02	Atlas SLV-3C Centaur	-	AC-20	Mariner 6	Mariner 69-3	-	-	CC	LC36B	-	-	150000	-	-
1969-025	2440298.82	1969 Mar 18 0747:35	Atlas F	-	104F	OV1-17/18/19	OV1-17S	-	-	V	ABRESA2	-	-	5783	-	-
1969-030	2440308.43	1969 Mar 27 2222:01	Atlas SLV-3C Centaur	-	AC-19	Mariner 7	Mariner 69-2	-	-	CC	LC36A	-	-	150000	-	-
1969-036	2440324.60	1969 Apr 13 0230	Atlas SLV-3A Agena D	-	5502A/2802?	AFP-827	CANYON 2	-	-	CC	LC13	-	-	39911	-	-
1969-069	2440445.96	1969 Aug 12 1101:04	Atlas SLV-3C Centaur	-	AC-18	ATS 5	ATS E	-	-	CC	LC36A	-	-	37422	-	-
1969-S457	2440454.00	1969 Aug 20 1205	Atlas F	-	112F	WT1A-S6/WT1A-S5	ABRES RVTO-1A-5	-	-	V	ABRESA1	-	-	1400?	-	KMR
1969-S503	2440480.50	1969 Sep 16	Atlas F/Trident	-	100F	RMV-340C/RMV-430C/BSE	ABRES RMP-B-12/KX-115	Mk 11 Low Angle RV	-	V	ABRESA3	-	-	1400?	-	-
1969-A174	2440505.00	1969 Oct 10 1207	Atlas F/Trident	-	98F	-	ABRES RMP-B-13/KX-112?	-	-	V	ABRESA3	-	-	10?	-	-
1969-S643	2440559.89	1969 Dec 4 0915	Atlas F	-	44F	Mk 11 Mod RV	ABRES RVTO-1A-6	-	-	V	ABRESA1	-	-	1400?	-	-
1969-S663	2440568.01	1969 Dec 12 1213	Atlas F/Trident	-	93F	RMV-340B/BSE/LSE	ABRES RMP-B-14/KX-113	-	-	V	ABRESA3	-	-	1400?	-	-
1970-S109	2440626.02	1970 Feb 8 1222	Atlas F/Trident	-	96F	RMV-340A/BSE/RMV-420D	ABRES RMP-B-15/KX-114	-	-	V	ABRESA3	-	-	1400?	-	-
1970-S244	2440658.98	1970 Mar 13 1125	Atlas F/Trident	-	28F	RMV-340B/RMV-410B/420E	ABRES RMP-B-16/KX-116	-	-	V	ABRESA3	-	-	1400?	-	-
1970-S376	2440736.86	1970 May 30 0838	Atlas F/Trident	-	91F	RMV-340C/RMV-430C/420F	ABRES RMP-B-17/KX-117	-	-	V	ABRESA3	-	-	1400?	-	-
1970-S392	2440747.02	1970 Jun 9 1223	Atlas F	-	92F	WT1A-S7/WT1A-L7	ABRES RVTO-1A-7	-	-	V	ABRESA1	-	-	1400?	-	-
1970-046	2440756.98	1970 Jun 19 1137	Atlas SLV-3A Agena D	-	5201A/1551?	AFP-720	RHYOLITE 1	-	-	CC	LC13	-	-	35888	-	-
1970-069	2440830.54	1970 Sep 1 0100	Atlas SLV-3A Agena D	-	5203A/2803?	AFP-827	CANYON 3	-	-	CC	LC13	-	-	41370	-	-
1970-U03	2440921.44	1970 Nov 30 2240:05	Atlas SLV-3C Centaur	-	AC-21	OAO B	OAO B	-	-	CC	LC36B	-	-	600?	-	-
1970-S656	2440942.86	1970 Dec 22 0838	Atlas F/Trident	-	105F	WT2A-L21/WT2A-S21	ABRES RVTO-2A-1	-	-	V	ABRESA3	-	-	1400?	-	-
1971-006	2440977.53	1971 Jan 26 0036:03	Atlas SLV-3C Centaur	-	AC-25	Intelsat 4 F-2	INTELSAT IV F2	-	-	CC	LC36A	-	-	37752	-	-
1971-S227	2441046.86	1971 Apr 5 0843	Atlas F	-	85F	LAR-1/LAR-3	ABRES LAR-1	-	-	V	ABRESA1	-	-	1400?	-	-
1971-F04	2441080.55	1971 May 9 0111:02	Atlas SLV-3C Centaur	-	AC-24	Mariner 8	Mariner 71H	-	-	CC	LC36A	-	-	160?	-	-
1971-051	2441102.43	1971 May 30 2223:04	Atlas SLV-3C Centaur	-	AC-23	Mariner 9	Mariner 71J	-	-	CC	LC36B	-	-	150000	-	-
1971-S350	2441131.97	1971 Jun 29 1112	Atlas F/Trident	-	103F	WT2A-L21/WT2A-S21	ABRES RVTO-2A-3	-	-	V	ABRESA3	-	-	1400?	-	-
1971-067	2441170.51	1971 Aug 7 0011	Atlas F	-	76F	OV1-20/21	OAR-901	-	-	V	BMRSA2	-	-	2036	-	-
1971-S418	2441195.98	1971 Sep 1 1127	Atlas F	-	74F	LAR-2/LAR-4	ABRES LAR-2	-	-	V	BMRSA1	-	-	1400?	-	-
1971-F13	2441290.44	1971 Dec 4 2233	Atlas SLV-3A Agena D	-	5503A/2804?	AFP-827	CANYON 4	-	-	CC	LC13	-	-	40?	-	-
1971-116	2441305.55	1971 Dec 20 0110:04	Atlas SLV-3C Centaur	-	AC-26	Intelsat 4 F-3	INTELSAT IV F3	-	-	CC	LC36A	-	-	36755	-	-
1972-003	2441339.51	1972 Jan 23 0012:04	Atlas SLV-3C Centaur	-	AC-28	Intelsat 4 F-4	INTELSAT IV F4	-	-	CC	LC36B	-	-	36653	-	-
1972-012	2441379.58	1972 Mar 3 0149:04	Atlas SLV-3C Centaur	-	AC-27	Pioneer 10	Pioneer F	-	-	CC	LC36A	-	-	150000	-	-
1972-041	2441482.41	1972 Jun 13 2153:04	Atlas SLV-3C Centaur	-	AC-29	Intelsat 4 F-5	INTELSAT IV F5	-	-	CC	LC36B	-	-	36673	-	-
1972-065	2441550.94	1972 Aug 21 1028:02	Atlas SLV-3C Centaur	-	AC-22	OAO 3	OAO-C	-	-	CC	LC36B	-	-	797	-	-
1972-076	2441593.34	1972 Oct 2 2010?	Atlas Burner 2	-	102F	P72-1	Radcat	-	-	V	BMRSA1	-	-	760	-	-
1972-101	2441672.43	1972 Dec 20 2220	Atlas SLV-3A Agena D	-	5204A/2805?	AFP-827	CANYON 5	-	-	CC	LC13	-	-	41681	-	-
1973-013	2441747.90	1973 Mar 6 0930	Atlas SLV-3A Agena D	-	5202A/1552?	AFP-720	RHYOLITE 2	-	-	CC	LC13	-	-	35938	-	-
1973-019	2441778.59	1973 Apr 6 0211:00	Atlas SLV-3D Centaur	-	AC-30	Pioneer 11	Pioneer G	-	-	CC	LC36B	-	-	150000	-	-
1973-058	2441918.46	1973 Aug 23 2257:02	Atlas SLV-3D Centaur	-	AC-31	Intelsat 4 F-7	INTELSAT IV F7	-	-	CC	LC36A	-	-	36866	-	-
1973-S287	2441923.89	1973 Aug 29 0918	Atlas F	-	78F	Mk 11C RV	BMRS RVTO-3A-2/FAIR-2	-	-	V	BMRSA3	-	-	1400?	-	-
1973-S321	2441955.50	1973 Sep 30	Atlas F	-	108F	ACE FTV-1	BMRS ACE FTV-1	-	-	V	BMRSA1	-	-	1400?	-	-
1973-085	2441989.74	1973 Nov 3 0545:00	Atlas SLV-3D Centaur	-	AC-34	Mariner 10	Mariner 73J	-	-	CC	LC36B	-	-	150000	-	-
1974-S127	2442112.50	1974 Mar 6	Atlas F	-	73F	USN Mk 4 RV	BMRS Mk 4 SFT-1	-	-	V	BMRSA1	-	-	1400?	-	-
1974-S148	2442129.50	1974 Mar 23	Atlas F	-	97F	ACE FTV-2	BMRS ACE FTV-2	-	-	V	BMRSA3	-	-	1400?	-	-
1974-S186	2442169.18	1974 May 1 1617	Atlas F	-	54F	USN Mk 4 RV	BMRS Mk 4 SFT-2	-	-	V	BMRSA1	-	-	1400?	-	-
1974-S235	2442227.14	1974 Jun 28 1515	Atlas F	-	82F	USN Mk 4 RV	BMRS Mk 4 SFT-3	-	-	V	BMRSA1	-	-	1400?	-	-
1974-054	2442242.72	1974 Jul 14 0517	Atlas F/PTS	-	69F	STP P73-3	NTS 1	-	-	VS	SLC3W	-	-	13808	-	-
1974-S295	2442298.50	1974 Sep 8	Atlas F	-	80F	ACE FTV-3	BMRS ACE FTV-3	-	-	V	BMRSA1	-	-	1400?	-	-
1974-S347	2442334.66	1974 Oct 14 0346	Atlas F	-	31F	Mk 12 RV	BMRS RVTO-3A-1/FAIR-2	-	-	V	BMRSA3	-	-	1400?	-	KMR
1974-093	2442373.49	1974 Nov 21 2343:59	Atlas SLV-3D Centaur	-	AC-32	Intelsat 4 F-8	INTELSAT IV F8	-	-	CC	LC36B	-	-	36673	-	-
1975-F01	2442464.48	1975 Feb 20 2335:00	Atlas SLV-3D Centaur	-	AC-33	Intelsat 4 F-6	INTELSAT IV F6	-	-	CC	LC36A	-	-	200?	-	-
1975-F03	2442515.54	1975 Apr 13 0051	Atlas F	-	71F	STP P72-2	P72-2	-	-	VS	SLC3W	-	-	0	-	-
1975-042	2442555.42	1975 May 22 2204:00	Atlas SLV-3D Centaur	-	AC-35	Intelsat 4 F-1	INTELSAT IV F1	-	-	CC	LC36A	-	-	36701	-	-
1975-055	2442581.88	1975 Jun 18 0900:00	Atlas SLV-3A Agena D	-	5506A/2806?	AFP-827	CANYON 6	-	-	CC	LC13	-	-	41812	-	-
1975-091	2442681.51	1975 Sep 26 0017:00	Atlas SLV-3D Centaur	-	AC-36	Intelsat 4A F-1	INTELSAT IVA F1	-	-	CC	LC36B	-	-	36838	-	-
1976-010	2442807.50	1976 Jan 29 2356	Atlas SLV-3D Centaur	-	AC-37	Intelsat 4A F-2	INTELSAT IVA F2	-	-	CC	LC36B	-	-	36659	-	-
1976-038	2442899.30	1976 Apr 30 1912	Atlas F/MSD	-	59F	OPS 6431 [NOSS1]	PARCAE 1	-	-	VS	SLC3W	-	-	1733	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-042	2442912.44	1976 May 13 2228	Atlas SLV-3D Centaur	-	AC-38	Comstar D-1	Comstar D-1	-	-	CC	LC36A	-	-	36336	-	-
1976-073	2442982.42	1976 Jul 22 2204:00	Atlas SLV-3D Centaur	-	AC-40	Comstar D-2	Comstar D-2	-	-	CC	LC36B	-	-	36343	-	-
1977-038	2443287.26	1977 May 23 1813:00	Atlas SLV-3A Agena D	-	5507A/2807	AFP-827	CANYON 7	-	-	CC	LC13	-	-	41573	-	-
1977-041	2443290.41	1977 May 26 2147:01	Atlas SLV-3D Centaur	-	AC-39	Intelsat 4A F-4	INTELSAT IVA F4	-	-	CC	LC36A	-	-	36471	-	-
1977-053	2443317.85	1977 Jun 23 0817	Atlas F/SVS	-	65F	P76-4	NTS 2	-	-	VS	SLC3W	-	-	25535	-	-
1977-075	2443367.77	1977 Aug 12 0629:31	Atlas SLV-3D Centaur	-	AC-45	HEAO 1	HEAO A	-	-	CC	LC36B	-	-	450	-	-
1977-F05	2443416.54	1977 Sep 30 0102:59	Atlas SLV-3D Centaur	-	AC-43	Intelsat 4A F-5	INTELSAT IVA F5	-	-	CC	LC36A	-	-	10?	-	-
1977-112	2443486.24	1977 Dec 8 1745	Atlas F/MSD	-	50F	OPS 8781 [NOSS2]	PARCAE 2	-	-	VS	SLC3W	-	-	1785	-	-
1977-114	2443489.45	1977 Dec 11 2245:01	Atlas SLV-3A Agena D	-	5504A/1553	OPS 4258	AQUACADE 3	-	-	CC	LC13	-	-	35916	-	-
1978-002	2443515.51	1978 Jan 7 0015:00	Atlas SLV-3D Centaur	-	AC-46	Intelsat 4A F-3	INTELSAT IVA F3	-	-	CC	LC36B	-	-	37381	-	-
1978-016	2443549.39	1978 Feb 9 2117:01	Atlas SLV-3D Centaur	-	AC-44	FLTSATCOM 1	FLTSATCOM F1	-	-	CC	LC36A	-	-	41788	-	-
1978-020	2443562.49	1978 Feb 22 2344?	Atlas F/SVS	-	64F	GPS 1	Navstar GPS SVN 1	-	-	VS	SLC3E	-	-	20812	-	-
1978-035	2443599.48	1978 Mar 31 2336:01	Atlas SLV-3D Centaur	-	AC-48	Intelsat 4A F-6	INTELSAT IVA F6	-	-	CC	LC36B	-	-	36336	-	-
1978-038	2443605.53	1978 Apr 7 0045:01	Atlas SLV-3A Agena D	-	5505A/1554	OPS 8790	AQUACADE 4	-	-	CC	LC13	-	-	35838	-	-
1978-047	2443641.94	1978 May 13 1034	Atlas F/SVS	-	49F	GPS 2	Navstar GPS SVN 2	-	-	VS	SLC3E	-	-	21434	-	-
1978-051	2443649.05	1978 May 20 1313:00	Atlas SLV-3D Centaur	-	AC-50	Pioneer Venus 1	Pioneer Venus Orbiter	-	-	CC	LC36A	-	-	150000	-	-
1978-064	2443686.55	1978 Jun 27 0112:44	Atlas F/Agena D	-	23F/6351	Seasat	Seasat A	-	-	VS	SLC3W	-	-	798	-	-
1978-068	2443689.43	1978 Jun 29 2224:59	Atlas SLV-3D Centaur	-	AC-41	Comstar D-3	Comstar D-3	-	-	CC	LC36B	-	-	36546	-	-
1978-078	2443728.81	1978 Aug 8 0733	Atlas SLV-3D Centaur	-	AC-51	Pioneer Venus 2	Pioneer Venus Multiprobe	-	-	CC	LC36A	-	-	150000	-	-
1978-093	2443788.52	1978 Oct 7 0028?	Atlas F/SVS	-	47F	GPS 3	Navstar GPS SVN 3	-	-	VS	SLC3E	-	-	21121	-	-
1978-096	2443794.97	1978 Oct 13 1123:00	Atlas F	-	29F	Tiros N	Tiros-N	-	-	VS	SLC3W	-	-	873	-	-
1978-103	2443825.73	1978 Nov 13 0524	Atlas SLV-3D Centaur	-	AC-52	HEAO 2	HEAO B	-	-	CC	LC36B	-	-	550	-	-
1978-112	2443853.67	1978 Dec 11 0359	Atlas F/SVS	-	39F	GPS 4	Navstar GPS SVN 4	-	-	VS	SLC3E	-	-	21237	-	-
1979-017	2443928.85	1979 Feb 24 0820	Atlas F/OIS	-	27F	P78-1	P78-1	-	-	VS	SLC3W	-	-	601	-	-
1979-038	2443998.29	1979 May 4 1857:00	Atlas SLV-3D Centaur	-	AC-47	FLTSATCOM 2	FLTSATCOM F2	-	-	CC	LC36A	-	-	36905	-	-
1979-057	2444052.16	1979 Jun 27 1551:59	Atlas F	-	25F	NOAA 6	NOAA A	-	-	VS	SLC3W	-	-	828	-	-
1979-082	2444136.73	1979 Sep 20 0528	Atlas SLV-3D Centaur	-	AC-53	HEAO 3	HEAO C	-	-	CC	LC36B	-	-	502	-	-
1980-004	2444256.56	1980 Jan 18 0126:00	Atlas SLV-3D Centaur	-	AC-49	FLTSATCOM 3	FLTSATCOM F3	-	-	CC	LC36A	-	-	36391	-	-
1980-011	2444279.46	1980 Feb 9 2308	Atlas F/SVS	-	35F	GPS 5	Navstar GPS SVN 5	-	-	VS	SLC3E	-	-	37508	-	-
1980-019	2444301.89	1980 Mar 3 0927	Atlas F/MSD	-	67F	OPS 7245 [NOSS3]	PARCAE 3	-	-	VS	SLC3W	-	-	1793	-	-
1980-032	2444355.92	1980 Apr 26 1000	Atlas F/SVS	-	34F	GPS 6	Navstar GPS SVN 6	-	-	VS	SLC3E	-	-	25636	-	-
1980-043	2444388.95	1980 May 29 1053	Atlas F	-	19F	NOAA B	NOAA B	-	-	VS	SLC3W	-	-	1453	-	-
1980-087	2444543.66	1980 Oct 31 0354	Atlas SLV-3D Centaur	-	AC-57	FLTSATCOM 4	FLTSATCOM F4	-	-	CC	LC36A	-	-	36236	-	-
1980-098	2444580.48	1980 Dec 6 2331	Atlas SLV-3D Centaur	-	AC-54	Intelsat 502	INTELSAT V F2	-	-	CC	LC36B	-	-	36269	-	-
1980-U01	2444582.80	1980 Dec 9 0718	Atlas E/MSD	-	68E	- [NOSS4]	PARCAE 4	-	-	VS	SLC3W	-	-	1050?	-	-
1981-018	2444657.47	1981 Feb 21 2323	Atlas SLV-3D Centaur	-	AC-42	Comstar D-4	Comstar D-4	-	-	CC	LC36A	-	-	36915	-	-
1981-050	2444748.45	1981 May 23 2242	Atlas SLV-3D Centaur	-	AC-56	Intelsat 501	INTELSAT V F1	-	-	CC	LC36B	-	-	36735	-	-
1981-059	2444778.95	1981 Jun 23 1052:59	Atlas F	-	87F	NOAA 7	NOAA C	-	-	VS	SLC3W	-	-	864	-	-
1981-073	2444822.84	1981 Aug 6 0816:00	Atlas SLV-3D Centaur	-	AC-59	FLTSATCOM 5	FLTSATCOM F5	-	-	CC	LC36A	-	-	41245	-	-
1981-119	2444954.48	1981 Dec 15 2335	Atlas SLV-3D Centaur	-	AC-55	Intelsat 503	INTELSAT V F3	-	-	CC	LC36A	-	-	36170	-	-
1981-F03	2444957.55	1981 Dec 19 0110	Atlas E/SVS	-	76E	GPS 7	Navstar GPS SVN 7	-	-	VS	SLC3E	-	-	0	-	-
1982-017	2445033.52	1982 Mar 5 0023	Atlas SLV-3D Centaur	-	AC-58	Intelsat 504	INTELSAT V F4	-	-	CC	LC36B	-	-	36305	-	-
1982-097	2445241.47	1982 Sep 28 2317	Atlas SLV-3D Centaur	-	AC-60	Intelsat 505	INTELSAT V F5	-	-	CC	LC36B	-	-	37600	-	-
1982-118	2445324.61	1982 Dec 21 0238	Atlas E	-	60E	DMSP F6	DMSP Block 5D-2 S-6	-	-	VS	SLC3W	-	-	907	-	-
1983-008	2445375.07	1983 Feb 9 1347	Atlas H	-	6001H	OPS 0252 [NOSS5]	PARCAE 5	-	-	VS	SLC3E	-	-	1754	-	-
1983-022	2445422.16	1983 Mar 28 1552:00	Atlas E	-	73E	NOAA 8	NOAA E	-	-	VS	SLC3W	-	-	832	-	-
1983-047	2445474.43	1983 May 19 2226	Atlas SLV-3D Centaur	-	AC-61	Intelsat 506	INTELSAT V F6	-	-	CC	LC36A	-	-	36284	-	-
1983-056	2445495.47	1983 Jun 9 2323	Atlas H	-	6002H	OPS 6432 [NOSS6]	PARCAE 6	-	-	VS	SLC3E	-	-	1768	-	-
1983-072	2445529.93	1983 Jul 14 1021	Atlas E/SGS-2	-	75E	GPS 8	Navstar GPS SVN 8	-	-	VS	SLC3W	-	-	21529	-	-
1983-113	2445656.77	1983 Nov 18 0632	Atlas E	-	58E	DMSP	DMSP Block 5D-2 S-7	-	-	VS	SLC3W	-	-	833	-	-
1984-012	2445736.28	1984 Feb 5 1844	Atlas H	-	6003H	OPS 8737 [NOSS7]	PARCAE 7	-	-	VS	SLC3E	-	-	1758	-	-
1984-057	2445861.46	1984 Jun 9 2303	Atlas G Centaur	-	AC-62	Intelsat 509	INTELSAT V F9	-	-	CC	LC36B	-	-	1258	-	-
1984-059	2445864.98	1984 Jun 13 1137	Atlas E/SGS-2	-	42E	USA 1 (GPS 9)	Navstar GPS SVN 9	-	-	VS	SLC3W	-	-	40961	-	-
1984-097	2445952.40	1984 Sep 8 2141	Atlas E/SGS-2	-	14E	USA 5 (GPS 10)	Navstar GPS SVN 10	-	-	VS	SLC3W	-	-	21290	-	-
1984-123	2446046.95	1984 Dec 12 1042:00	Atlas E	-	39E	NOAA 9	NOAA F	-	-	VS	SLC3W	-	-	877	-	-
1985-021	2446137.58	1985 Mar 13 0200	Atlas E/OIS	-	41E	Geosat	Geosat	-	-	VS	SLC3W	-	-	925	-	-
1985-025	2446147.50	1985 Mar 22 2355	Atlas G Centaur	-	AC-63	Intelsat 510	INTELSAT VA F10	-	-	CC	LC36B	-	-	36519	-	-
1985-055	2446246.53	1985 Jun 30 0044	Atlas G Centaur	-	AC-64	Intelsat 511	INTELSAT VA F11	-	-	CC	LC36B	-	-	36872	-	-
1985-087	2446337.47	1985 Sep 28 2317	Atlas G Centaur	-	AC-65	Intelsat 512	INTELSAT VA F12	-	-	CC	LC36B	-	-	38641	-	-
1985-093	2446347.62	1985 Oct 9 0253	Atlas E/SGS-2	-	55E	USA 10 (GPS 11)	Navstar GPS SVN 11	-	-	VS	SLC3W	-	-	22036	-	-
1986-014	2446470.92	1986 Feb 9 1006	Atlas H	-	6004H	USA 15-18 [NOSS8]	PARCAE 8	-	-	VS	SLC3E	-	-	1804	-	-
1986-073	2446691.16	1986 Sep 17 1552	Atlas E	-	52E	NOAA 10	NOAA G	-	-	VS	SLC3W	-	-	862	-	-
1986-096	2446769.60	1986 Dec 5 0230:01	Atlas G Centaur	-	AC-66	USA 20 (FLTSATCOM 7)	FLTSATCOM F7	-	-	CC	LC36B	-	-	36468	-	-
1987-F02	2446881.39	1987 Mar 26 2122:00	Atlas G Centaur	-	AC-67	FLTSATCOM 6	FLTSATCOM F6	-	-	CC	LC36B	-	-	30?	-	-
1987-043	2446931.16	1987 May 15 1545	Atlas H	-	6005H	USA 22-25 [NOSS9]	PARCAE 9	-	-	VS	SLC3E	-	-	1793	-	-
1987-053	2446966.61	1987 Jun 20 0234	Atlas E	-	59E	USA 26 (DMSP F8)	DMSP Block 5D-2 S-9	-	-	VS	SLC3W	-	-	862	-	-
1988-006	2447194.75	1988 Feb 3 0553	Atlas E	-	54E	USA 29 (DMSP F9)	DMSP Block 5D-2 S-8	-	-	VS	SLC3W	-	-	832	-	-
1988-089	2447428.92	1988 Sep 24 1002:00	Atlas E	-	63E	NOAA 11	NOAA H	-	-	VS	SLC3W	-	-	866	-	-
1989-077	2447794.87	1989 Sep 25 0856:02	Atlas G Centaur	-	AC-68	USA 46 (FLTSATCOM 8)	FLTSATCOM F8	-	-	CC	LC36B	-	-	35961	-	-
1990-031	2447993.12	1990 Apr 11 1500	Atlas E Altair	-	28E	USA 56-58 (P87-2)	POGS	-	-	VS	SLC3W	-	-	751	-	-
1990-065	2448098.31	1990 Jul 25 1921	Atlas I	-	AC-69	CRRES	CRRES	-	-	CC	LC36B	-	-	35139	-	-
1990-105	2448227.16	1990 Dec 1 1557	Atlas E	-	61E	USA 68 (DMSP F10)	DMSP Block 5D-2 S-10	-	-	VS	SLC3W	-	-	850	-	-
1991-F01	2448365.48	1991 Apr 18 2330	Atlas I	-	AC-70	BS-3H	BS-3H	-	-	CC	LC36B	-	-	175	-	-
1991-032	2448391.16	1991 May 14 1552:03	Atlas E	-	50E	NOAA 12	NOAA D	-	-	VS	SLC3W	-	-	842	-	-
1991-082	2448589.06	1991 Nov 28 1323	Atlas E	-	53E	USA 73 (DMSP F11)	DMSP Block 5D-2 S-12	-	-	VS	SLC3W	-	-	864	-	-
1991-083	2448598.45	1991 Dec 7 2247	Atlas II	-	AC-102	Eutelsat IIF3	Eutelsat II F-3	-	-	CC	LC36B	-	-	41319	-	-
1992-006	2448663.53	1992 Feb 11 0041:02	Atlas II	-	AC-101 MLV-1/IABS-1	USA 78 (DSCS 3B-14)	DSCS III B-14	-	-	CC	LC36A	-	-	36190	-	-
1992-013	2448695.50	1992 Mar 14 0000	Atlas I	-	AC-72	Galaxy 5	Galaxy V	-	-	CC	LC36B	-	-	36289	-	-
1992-032	2448783.50	1992 Jun 10 0000	Atlas IIA	-	AC-105	Intelsat K	INTELSAT K	-	-	CC	LC36B	-	-	37097	-	-
1992-037	2448806.41	1992 Jul 2 2154:01	Atlas II	-	AC-103 MLV-2/IABS-2	USA 82 (DSCS 3B-12)	DSCS III B-12	-	-	CC	LC36A	-	-	36267	-	-
1992-F02	2448857.44	1992 Aug 22 2240	Atlas I	-	AC-71	Galaxy 1R	Galaxy IR	-	-	CC	LC36B	-	-	164	-	-
1993-015	2449072.40	1993 Mar 25 2138:02	Atlas I	-	AC-74	UHF 1	UFO F1	-	-	CC	LC36B	-	-	41794	-	-
1993-046	2449188.42	1993 Jul 19 2204:02	Atlas II	-	AC-104 MLV-3/IABS-3	USA 93 (DSCS 3B-9)	DSCS III B-9	-	-	CC	LC36A	-	-	36168	-	-
1993-050	2449208.92	1993 Aug 9 1002	Atlas E	-	34E	NOAA 13	NOAA I	-	-	VS	SLC3W	-	-	876	-	-
1993-056	2449233.97	1993 Sep 3 1117:02	Atlas I	-	AC-75	USA 95 (UHF F2)	UFO F2	-	-	CC	LC36B	-	-	44492	-	-
1993-074	2449320.49	1993 Nov 28 2340:02	Atlas II	-	AC-106 MLV-4/IABS-4	USA 97 (DSCS 3B-10)	DSCS III B-10	-	-	CC	LC36A	-	-	36340	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-077	2449337.53	1993 Dec 16 0040:02	Atlas IIAS	-	AC-108	Telstar 401	Telstar 401	-	-	CC	LC36B	-	-	35994	-	-
1994-022	2449455.75	1994 Apr 13 0604:02	Atlas I	-	AC-73	GOES 8	GOES I	-	-	CC	LC36B	-	-	42739	-	-
1994-035	2449528.08	1994 Jun 24 1350:02	Atlas I	-	AC-76	USA 104 (UHF F3)	UFO F3	-	-	CC	LC36B	-	-	36954	-	-
1994-047	2449568.50	1994 Aug 3 2357:02	Atlas IIA	-	AC-107	DBS 2	DBS 2	-	-	CC	LC36A	-	-	39489	-	-
1994-057	2449594.23	1994 Aug 29 1738	Atlas E	-	20E	USA 106 (DMSP)	DMSP Block 5D-2 S-11	-	-	VS	SLC3W	-	-	875	-	-
1994-064	2449631.77	1994 Oct 6 0635:02	Atlas IIAS	-	AC-111	Intelsat 703	INTELSAT 703	-	-	CC	LC36B	-	-	38640	-	-
1994-079	2449685.93	1994 Nov 29 1021:02	Atlas IIA	-	AC-110	Orion 1	Orion 1	-	-	CC	LC36A	-	-	123436	-	-
1994-089	2449716.92	1994 Dec 30 1002	Atlas E	-	11E	NOAA 14	NOAA J	-	-	VS	SLC3W	-	-	862	-	-
1995-001	2449727.76	1995 Jan 10 0618:02	Atlas IIAS	-	AC-113	Intelsat 704	INTELSAT 704	-	-	CC	LC36B	-	-	42338	-	-
1995-003	2449746.56	1995 Jan 29 0125:01	Atlas II	-	AC-112	USA 108 (UHF F4)	UFO F4 EHF	-	-	CC	LC36A	-	-	36437	-	-
1995-013	2449798.76	1995 Mar 22 0618:01	Atlas IIAS	-	AC-115	Intelsat 705	INTELSAT 705	-	-	CC	LC36B	-	-	40216	-	-
1995-015	2449801.09	1995 Mar 24 1405	Atlas E	-	45E	USA 109 (DMSP)	DMSP Block 5D-2 S-13	-	-	VS	SLC3W	-	-	863	-	-
1995-019	2449815.49	1995 Apr 7 2347:00	Atlas IIA	-	AC-114	AMSC 1	AMSC 1	-	-	CC	LC36A	-	-	40177	-	-
1995-025	2449860.74	1995 May 23 0552:02	Atlas I	-	AC-77	GOES 9	GOES J	-	-	CC	LC36B	-	-	42419	-	-
1995-027	2449869.14	1995 May 31 1527:01	Atlas II	-	AC-116	USA 111 (UHF F5)	UHF F/O F5-EHF	-	-	CC	LC36A	-	-	36532	-	-
1995-038	2449930.48	1995 Jul 31 2330:02	Atlas IIA	-	AC-118 MLV-5/IABS-5	USA 113 (DSCS 3B-7)	DSCS III B-7	-	-	CC	LC36A	-	-	36925	-	-
1995-043	2449958.54	1995 Aug 29 0053:02	Atlas IIAS	-	AC-117	JCSAT 3	JCSAT 3	-	-	CC	LC36B	-	-	80799	-	-
1995-057	2450012.83	1995 Oct 22 0800:02	Atlas II	-	AC-119	USA 114 (UHF F6)	UFO F6-EHF	-	-	CC	LC36A	-	-	36620	-	-
1995-065	2450053.84	1995 Dec 2 0808:01	Atlas IIAS	-	AC-121	SOHO	SOHO	-	-	CC	LC36B	-	-	150000	-	-
1995-069	2450066.52	1995 Dec 15 0023:01	Atlas IIA	-	AC-120	Galaxy 3R	Galaxy 3R	-	-	CC	LC36A	-	-	35908	-	-
1996-006	2450114.55	1996 Feb 1 0115:01	Atlas IIAS	-	AC-126	Palapa C1	Palapa C1	-	-	CC	LC36B	-	-	89995	-	-
1996-020	2450177.46	1996 Apr 3 2301:01	Atlas IIA	-	AC-122	Inmarsat 3F1	INMARSAT III F-1	-	-	CC	LC36A	-	-	36471	-	-
1996-027	2450203.69	1996 Apr 30 0431:01	Atlas I	-	AC-78	SAX	SAX	-	-	CC	LC36B	-	-	605	-	-
1996-042	2450290.03	1996 Jul 25 1241:01	Atlas II	-	AC-125	USA 127 (UHF F7)	UFO F7-EHF	-	-	CC	LC36A	-	-	37471	-	-
1996-054	2450335.41	1996 Sep 8 2149:01	Atlas IIA	-	AC-123	GE 1	GE 1	-	-	CC	LC36B	-	-	56579	-	-
1996-067	2450409.37	1996 Nov 21 2047:01	Atlas IIA	-	AC-124	Hot Bird 2	Eutelsat HB2	-	-	CC	LC36B	-	-	39424	-	-
1996-070	2450435.58	1996 Dec 18 0157:01	Atlas IIA	-	AC-129	Inmarsat 3F3	INMARSAT III F3	-	-	CC	LC36A	-	-	36070	-	-
1997-007	2450496.57	1997 Feb 17 0142:02	Atlas IIAS	-	AC-127	JCSAT 4	JCSAT 4	-	-	CC	LC36B	-	-	94559	-	-
1997-011	2450515.75	1997 Mar 8 0601:01	Atlas IIA	-	AC-128	Tempo 2	Tempo 2	-	-	CC	LC36A	-	-	36288	-	-
1997-019	2450563.74	1997 Apr 25 0549:01	Atlas I	-	AC-79	GOES 10	GOES K	-	-	CC	LC36B	-	-	42557	-	-
1997-036	2450657.55	1997 Jul 28 0115:01	Atlas IIAS	-	AC-133	Superbird C	Superbird C	-	-	CC	LC36B	-	-	91062	-	-
1997-050	2450696.00	1997 Sep 4 1203:00	Atlas IIAS	-	AC-146	GE 3	GE 3	-	-	CC	LC36A	-	-	44162	-	-
1997-059	2450727.38	1997 Oct 5 2101:01	Atlas IIAS	-	AC-135	Echostar 3	Echostar 3	-	-	CC	LC36B	-	-	38745	-	-
1997-065	2450746.53	1997 Oct 25 0046:00	Atlas IIA	-	AC-131 MLV-6/IABS-6	USA 135 (DSCS 3B-13)	DSCS III B-13	-	-	CC	LC36A	-	-	35904	-	-
1997-078	2450791.49	1997 Dec 8 2352:01	Atlas IIAS	-	AC-149	Galaxy 8i	Galaxy 8-i	-	-	CC	LC36B	-	-	50674	-	-
1998-005	2450843.28	1998 Jan 29 1837:00	Atlas IIA	-	AC-109 MLV-7	USA 137 [SDS12]	QUASAR 12?	NROL-05 CAPRICORN	-	CC	SLC36A	-	-	40141	-	-
1998-014	2450872.51	1998 Feb 28 0021:01	Atlas IIAS	-	AC-151	Intelsat 806	INTELSAT 806	-	-	CC	SLC36B	-	-	36164	-	-
1998-016	2450889.40	1998 Mar 16 2132:00	Atlas II	-	AC-132	USA 138 (UHF F8)	UFO F8	-	-	CC	SLC36A	-	-	36161	-	-
1998-037	2450983.45	1998 Jun 18 2248:01	Atlas IIAS	-	AC-153	Intelsat 805	INTELSAT 805	-	-	CC	SLC36A	-	-	42897	-	-
1998-057	2451096.45	1998 Oct 9 2250:01	Atlas IIA	-	AC-134	Hot Bird 5	Eutelsat HB5	-	-	CC	SLC36B	-	-	36637	-	-
1998-058	2451106.80	1998 Oct 20 0719:02	Atlas IIA	-	AC-130	USA 140 (UHF F9)	UFO F9	-	-	CC	SLC36A	-	-	36798	-	-
1999-006	2451225.57	1999 Feb 16 0145:26	Atlas IIAS	-	AC-152	JCSAT 6	JCSAT 6	-	-	CC	SLC36A	-	-	97736	-	-
1999-018	2451281.45	1999 Apr 12 2250:01	Atlas IIAS	-	AC-154	Eutelsat W3	Eutelsat W3	-	-	CC	SLC36A	-	-	45749	-	-
1999-050	2451444.75	1999 Sep 23 0602:02	Atlas IIAS	-	AC-155	Echostar V	Echostar 5	-	-	CC	SLC36A	-	-	45585	-	-
1999-063	2451505.67	1999 Nov 23 0406:01	Atlas IIA	-	AC-136	USA 146 (UHF F10)	UFO 10	-	-	CC	SLC36B	-	-	36685	-	-
1999-068	2451531.29	1999 Dec 18 1857:39	Atlas IIAS	-	AC-141	Terra	EOS AM-1	-	-	VS	SLC3E	-	-	708	-	-
2000-001	2451564.54	2000 Jan 21 0103:01	Atlas IIA	-	AC-138 MLV-8/IABS-9	USA 148 (DSCS 3B-8)	DSCS III B-8	MLV-8	-	CC	SLC36A	-	-	35868	-	-
2000-007	2451578.48	2000 Feb 3 2330:01	Atlas IIAS	-	AC-158	Hispasat 1C	Hispasat 1C	-	-	CC	SLC36B	-	-	45957	-	-
2000-022	2451667.80	2000 May 3 0707:03	Atlas IIA	-	AC-137	GOES L	GOES L	-	-	CC	SLC36A	-	-	43548	-	-
2000-028	2451689.47	2000 May 24 2310:05	Atlas 3A	-	AC-201	Eutelsat W4	Eutelsat W4	-	-	CC	SLC36B	-	-	45800	-	-
2000-034	2451726.04	2000 Jun 30 1256:01	Atlas IIA	-	AC-139	TDRS 8	TDRS H	-	-	CC	SLC36A	-	-	36137	-	-
2000-038	2451739.72	2000 Jul 14 0521:01	Atlas IIAS	-	AC-161	Echostar VI	Echostar VI	-	-	CC	SLC36B	-	-	38040	-	-
2000-065	2451837.53	2000 Oct 20 0040:02	Atlas IIA	-	AC-140 MLV-9/IABS-8	USA 153 (DSCS3B-11)	DSCS III B-11	-	-	CC	SLC36A	-	-	35847	-	-
2000-080	2451884.62	2000 Dec 6 0247:01	Atlas IIAS	-	AC-157 MLV-11	USA 155 [SDS13]	QUASAR 13?	NROL-10 GREAT BEAR	-	CC	SLC36A	-	-	35988	-	-
2001-026	2452079.70	2001 Jun 19 0441:02	Atlas IIAS	-	AC-156	ICO 2	ICO 2	-	-	CC	SLC36B	-	-	10769	-	-
2001-031	2452113.81	2001 Jul 23 0723:01	Atlas IIA	-	AC-142	GOES M	GOES M	-	-	CC	SLC36A	-	-	42844	-	-
2001-040	2452161.14	2001 Sep 8 1525:05	Atlas IIAS	-	AC-160 MLV-10	USA 160 [NOSS14]	INTRUDER 5?	NROL-13 GEMINI	-	VS	SLC3E	-	-	1518	-	-
2001-046	2452193.61	2001 Oct 11 0232:00	Atlas IIAS	-	AC-162 MLV-12	USA 162 [SDS14]	QUASAR 14?	NROL-12 AQUILA	-	CC	SLC36B	-	-	37538	-	-
2002-006	2452327.03	2002 Feb 21 1243:01	Atlas 3B	DEC	AC-204	Echostar 7	Echostar 7	-	-	CC	SLC36B	-	-	57127	-	-
2002-011	2452342.46	2002 Mar 8 2259:01	Atlas IIA	-	AC-143	TDRS 9	TDRS I	-	-	CC	SLC36A	-	-	35910	-	-
2002-044	2452536.42	2002 Sep 18 2204:01	Atlas IIAS	-	AC-159	Hispasat 1D	Hispasat 1D	-	-	CC	SLC36A	-	-	45649	-	-
2002-055	2452613.61	2002 Dec 5 0242:01	Atlas IIA	-	AC-144	TDRS 10	TDRS J	-	-	CC	SLC36A	-	-	37993	-	-
2003-014	2452741.53	2003 Apr 12 0047:01	Atlas 3B	SEC	AC-205	Asiasat 4	Asiasat 4	-	-	CC	SLC36B	-	-	47958	-	-
2003-054	2452975.92	2003 Dec 2 1004	Atlas IIAS	-	AC-164 MLV-14	USA 173 [NOSS15]	INTRUDER 6?	NROL-18 LIBRA	-	VS	SLC3E	-	-	1464	-	-
2003-057	2452991.60	2003 Dec 18 0230	Atlas 3B	SEC	AC-203	USA 174 (UHF F11)	UHF F/O F11	-	-	CC	SLC36B	-	-	35957	-	-
2004-003	2453041.49	2004 Feb 5 2346:02	Atlas IIAS	-	AC-165	AMC-10	AMC-10	-	-	CC	SLC36A	-	-	36144	-	-
2004-007	2453077.74	2004 Mar 13 0540:01	Atlas 3A	-	AC-202	MBSAT	MBSAT	-	-	CC	SLC36B	-	-	35969	-	-
2004-011	2453111.53	2004 Apr 16 0045:00	Atlas IIAS	-	AC-163	Superbird 6	Superbird 6	-	-	CC	SLC36A	-	-	122343	-	-
2004-017	2453145.43	2004 May 19 2222:01	Atlas IIAS	-	AC-166	AMC-11	Americom 11	-	-	CC	SLC36B	-	-	35876	-	-
2004-034	2453249.47	2004 Aug 31 2317:00	Atlas IIAS	-	AC-167	USA 179 [SDS15]	QUASAR 15?	NROL-01 NEMESIS	-	CC	SLC36A	-	-	39867	-	-
2005-004	2453404.82	2005 Feb 3 0741:01	Atlas 3B	SEC	AC-206 MLV-15	USA 181 [NOSS16]	INTRUDER 7	NROL-23 CANIS MINOR	-	CC	SLC36B	-	-	1436	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A50	2436001.32	1957 Jun 11 1937	Atlas A	-	4A	0.000	AFBMD	MF	S1P	-	Test	RM	-	-
1957-A106	2436107.33	1957 Sep 25 1957	Atlas A	-	6A	0.000	AFBMD	MF	S1P	-	Test	RM	-	-
1957-S180	2436190.24	1957 Dec 17 1739	Atlas A	-	12A	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-S07	2436214.16	1958 Jan 10 1548	Atlas A	-	10A	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-S21	2436242.32	1958 Feb 7 1937	Atlas A	-	13A	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S26	2436255.24	1958 Feb 20 1746	Atlas A	-	11A	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S52	2436299.21	1958 Apr 5 1701	Atlas A	-	15A	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S78	2436358.39	1958 Jun 3 2128	Atlas A	-	16A	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-A77	2436404.23	1958 Jul 19 1736	Atlas B	-	3B	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S134	2436418.43	1958 Aug 2 2216	Atlas B	-	4B	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-S177	2436444.69	1958 Aug 29 0430	Atlas B	-	5B	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-S197	2436460.73	1958 Sep 14 0524	Atlas B	-	8B	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958-S202	2436465.39	1958 Sep 18 2127	Atlas B	-	6B	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S259	2436525.67	1958 Nov 18 0400	Atlas B	-	9B	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1958-S270	2436536.60	1958 Nov 29 0227	Atlas B	-	12B	0.000	AFBMD	MS	-	-	Test	RM	-	-
1958 ZET	2436556.46	1958 Dec 18 2302	Atlas B	-	10B	3.718	AFBMD	OS	-	G	Sat LEO A	AP	-	-
1958-S296	2436561.70	1958 Dec 24 0445	Atlas C	-	3C	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S04	2436584.67	1959 Jan 16 0400	Atlas B	-	13B	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-S09	2436596.48	1959 Jan 27 2334	Atlas C	-	4C	0.000	AFBMD	MS	-	-	Test	RM	-	Guidance fail
1959-S13	2436603.83	1959 Feb 4 0801	Atlas B	-	11B	0.000	AFBMD	MS	-	AFSWC/Holly	Test	RM	JGR65,771	-
1959-S16	2436619.73	1959 Feb 20 0538	Atlas C	-	5C	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-S33	2436646.54	1959 Mar 19 0059	Atlas C	-	7C	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-A61	2436673.41	1959 Apr 14 2146	Atlas D	-	3D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-A79	2436707.69	1959 May 19 0430	Atlas D	-	7D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-M18	2436726.24	1959 Jun 6 1739	Atlas D	-	5D	0.000	AFBMD	MF	S1	-	Test	RM	-	-
1959-S117	2436770.72	1959 Jul 21 0522	Atlas C	-	8C	0.000	AFBMD	MS	-	AFSWC/Holly	Test/Particles	RM	-	-
1959-S129	2436778.67	1959 Jul 29 0410	Atlas D	-	11D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S138	2436792.25	1959 Aug 11 1801	Atlas D	-	14D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S147	2436805.16	1959 Aug 24 1553	Atlas C	-	11C	0.000	AFBMD	MS	-	-	Test	TN-D-1502	SR1,1	-
1959-S165	2436820.85	1959 Sep 9 0819	Atlas D	-	10D	0.000	AFBMD	TF	U	-	SC Test	SP-4201	-	-
1959-S166	2436821.24	1959 Sep 9 1750:42	Atlas D	-	12D	0.000	SAC	MS	-	-	Test	VCR	-	-
1959-S175	2436828.59	1959 Sep 17 0209	Atlas D	-	17D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-E02	2436836.13	1959 Sep 24 1512	Atlas C Able	-	9C	0.000	AFBMD	OE	PE	G	Sat EEO O	AD0363166	AE1915	Exploded in static test
1959-S199	2436847.75	1959 Oct 6 0555	Atlas D	-	18D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S205	2436851.63	1959 Oct 10 0310	Atlas D	-	22D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S227	2436870.81	1959 Oct 29 0720	Atlas D	-	26D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S232	2436877.40	1959 Nov 4 2137	Atlas D	-	28D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1959-S252	2436897.33	1959 Nov 24 1948	Atlas D	-	15D	0.000	AFBMD	MS	-	-	Test	RM	-	No RV sep
1959-F09	2436898.81	1959 Nov 26 0726	Atlas Able	-	20D	0.169	AFBMD	OF	FF	G	Sat EEO O	KHR-1	-	-
1959-S266	2436911.51	1959 Dec 9 0010	Atlas D	-	31D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1959-S274	2436921.53	1959 Dec 19 0048	Atlas D	-	40D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-S08	2436940.57	1960 Jan 7 0140	Atlas D	-	43D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-S22	2436960.49	1960 Jan 26 2343:05	Atlas D	-	6D	0.000	SAC	MS	-	-	Test	VCR	RM	-
1960-S24	2436960.56	1960 Jan 27 0131	Atlas D	-	44D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-S34	2436976.67	1960 Feb 12 0411	Atlas D	-	49D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-F03	2436991.23	1960 Feb 26 1725:30	Atlas Agena A	-	29D/1008	1.500	AFBMD	OF	AD/S1S	G	Sat LEO A	WS117L-571	-	Accidental Agena destruct at sep
1960-S49	2437002.05	1960 Mar 8 1310	Atlas D	-	42D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-A65	2437004.52	1960 Mar 11 0036	Atlas D	-	51D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1960-A94	2437032.59	1960 Apr 8 0206	Atlas D	-	48D	0.000	AFBMD	MF	U	-	Test	RM	-	-
1960-S81	2437047.32	1960 Apr 22 1939:01	Atlas D	-	25D	0.000	SAC	MS	-	-	Test	VCR	-	-
1960-A116	2437061.20	1960 May 6 1647:02	Atlas D	-	23D	0.000	SAC	MF	U	-	Test	VCR	-	-
1960-S100	2437075.13	1960 May 20 1500:27	Atlas D	-	56D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960 ZET	2437079.23	1960 May 24 1736:46	Atlas Agena A	-	45D/1007	2.050	AFBMD	OS	-	G	Sat LEO A	RAE/PSC	-	-
1960-S123	2437096.77	1960 Jun 11 0630:18	Atlas D	-	54D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-S138	2437108.12	1960 Jun 22 1449:33	Atlas D	-	62D	0.000	AFBMD	MS	-	-	Test	AD841975	-	30 km long
1960-S151	2437113.60	1960 Jun 28 0230:54	Atlas D	-	27D	0.000	AFBMD	MS	-	-	Ionos	RM	-	-
1960-S162	2437117.79	1960 Jul 2 0658:22	Atlas D	-	60D	0.000	AFBMD	MS	-	-	Test	RM	-	74 km short
1960-A170	2437138.49	1960 Jul 22 2346:16	Atlas D	-	74D	0.000	SAC	MF	U	-	Test	VCR	-	-
1960-A173	2437145.05	1960 Jul 29 1313:03	Atlas D	-	50D	0.000	AFBMD/STGL	TF	FS	-	SC Test	TM-X-50740	-	MaxQ failure
1960-S226	2437156.26	1960 Aug 9 1809:33	Atlas D	-	32D	0.000	AFBMD	MS	-	-	Aeron	RM	-	Radiometer
1960-S237	2437159.04	1960 Aug 12 1300:10	Atlas D	-	66D	0.000	AFBMD	MS	-	-	Test	AD842102	-	-
1960-S268	2437190.36	1960 Sep 12 2038:38	Atlas D	-	47D	0.000	SAC	MF	U	-	Test	VCR	-	-
1960-S274	2437193.92	1960 Sep 16 0958:06	Atlas D	-	76D	0.000	AFBMD	MS	-	-	CR/Tech	AtlasD	-	-
1960-S276	2437197.27	1960 Sep 19 1831:27	Atlas D	-	79D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-F11	2437203.13	1960 Sep 25 1513:17	Atlas Able	-	80D	0.175	AFBMD	OF	S2I	G	Sat EEO O	KHR-1	-	Oxidizer sys failed
1960-S297	2437207.35	1960 Sep 29 2031:11	Atlas D	-	33D	0.000	SAC	MF	U	-	Test	VCR	-	No BJET
1960-S314	2437219.30	1960 Oct 11 1915	Atlas E	-	3E	0.000	AFBMD	MF	U	-	CR	RM	-	-
1960-F13	2437219.36	1960 Oct 11 2033:28	Atlas Agena A	-	57D/2101	1.526	AFBMD	OF	S2G	G	Sat SSO O	WS117L-571	VCR	Agena ACS prop leaked
1960-A244	2437220.70	1960 Oct 13 0453:49	Atlas D	-	81D	0.000	SAC	MF	U	-	Test	VCR	-	-
1960-S319	2437220.90	1960 Oct 13 0934:38	Atlas D	-	71D	0.000	AFBMD	MS	-	-	Test Range 8119	AD-842577	-	-
1960-S335	2437229.72	1960 Oct 22 0513:20	Atlas D	-	55D	0.000	AFBMD	MS	-	-	Test	RM	-	R&D decoy
1960-S362	2437253.75	1960 Nov 15 0554:07	Atlas D	-	83D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1960-S390	2437268.55	1960 Nov 30 0112	Atlas E	-	4E	0.000	AFBMD	MF	U	-	Test	RM	-	-
1960-F18	2437283.88	1960 Dec 15 0910	Atlas Able	-	91D	0.375	AFBMD	OF	S2P/FS	G	Sat EEO O	KHR-1	-	Premature S2 ignition?
1960-S413	2437285.36	1960 Dec 16 2035:33	Atlas D	-	99D	0.000	AFBMD	MS	-	-	Test	VCR	-	-
1961-S25	2437323.38	1961 Jan 23 2102:05	Atlas D	-	90D	0.000	AFBMD	MS	-	-	Test	RM	-	-
1961-S26	2437324.41	1961 Jan 24 2155	Atlas E	-	8E	0.000	AFBMD	MF	U	-	Test	RM	-	-
1961 ALP	2437331.35	1961 Jan 31 2021:19	Atlas Agena A	-	70D/2102	1.860	AFBMD	OS	-	G	Sat SSO O	VCR	-	-
1961-S56	2437352.09	1961 Feb 21 1410	Atlas D	-	67D	0.000	AFBMD/STGL	TS	-	-	Test	NASA-PR61-27	-	-
1961-S60	2437355.27	1961 Feb 24 1829	Atlas E	-	9E	0.000	AFBMD	MS	-	-	Test	RM	-	-
1961-S80	2437372.68	1961 Mar 14 0417	Atlas E	-	13E	0.000	AFBMD	MF	U	-	Test	RM	-	-
1961-S90	2437383.58	1961 Mar 25 0149	Atlas E	-	16E	0.000	AFBMD	MF	U	-	Test	RM	-	-
1961-F03	2437415.18	1961 Apr 25 1615	Atlas D	-	100D	1.200	AFSSD	OF	S1G	G	Sat LEO O	KHR-1	-	Guidance failed, RSO destruct
1961-S143	2437432.58	1961 May 13 0200	Atlas E	-	12E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961-S157	2437444.41	1961 May 24 2150:38	Atlas D	-	95D	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1961-S160	2437445.60	1961 May 26 0226	Atlas E	-	18E	0.000	AFBSD	MS	-	-	Test	RM	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A150	2437458.40	1961 Jun 7 2137:31	Atlas E	-	27E	0.000	AFBSD	MF	S1	-	Test	VCR	-	-
1961-A157	2437473.62	1961 Jun 23 0300	Atlas E	-	17E	0.000	AFBSD	MF	U	-	Test	RM	-	-
1961-S203	2437487.70	1961 Jul 7 0451	Atlas E	-	22E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961 SIG	2437493.13	1961 Jul 12 1511:46	Atlas Agena B	-	97D/1201	1.610	AFSSD	OS	-	G	Sat MEO A 2	WS117L-571	VCR	-
1961-S226	2437512.40	1961 Jul 31 2132	Atlas E	-	21E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961-S232	2437520.69	1961 Aug 9 0431	Atlas F	-	2F	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961-S252	2437534.55	1961 Aug 23 0116	Atlas D	-	101D	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1961 PHI	2437534.92	1961 Aug 23 1004:10	Atlas Agena B	-	111D/6001 (AA1)	0.306	MSFC/AFSSD	OF40	S2R	G	Sat DSO O	CR-88008	-	S2 restart early shutdown
1961-S274	2437551.57	1961 Sep 9 0142:27	Atlas E	-	26E	0.000	AFBSD	MF	U	-	Test	AA61-0124	-	-
1961-F09	2437552.31	1961 Sep 9 1928:27	Atlas Agena B	-	106D/2120	1.900	AFSSD	OF	PE	G	Sat LEO A	WS117L-571	VCR	Bad umbilical sep, engine shutdo
1961 A ALP	2437556.09	1961 Sep 13 1404	Atlas D	-	88D	1.203	AFSSD/STGL	OS	-	G	Sat LEO O	KHR-1	-	-
1961-S317	2437575.27	1961 Oct 2 1823	Atlas E	-	25E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961-S322	2437578.07	1961 Oct 5 1342:37	Atlas E	-	30E	0.000	AFBSD	MS	-	-	Test	AD843132	-	-
1961 A DEL	2437594.08	1961 Oct 21 1353:03	Atlas Agena B	-	105D/1202	1.651	AFSSD	OS	-	G	Sat MEO A 2	VCR	-	-
1961-A234	2437614.12	1961 Nov 10 1455	Atlas E	-	32E	0.000	AFBSD	MF	U	AFCRL/Yagoda	Test/CR/Tech	RM	-	-
1961 A THE	2437621.84	1961 Nov 18 0812:21	Atlas Agena B	-	117D/6002 (AA2)	0.306	MSFC/AFSSD	OF40	S2R	G	Sat DSO O	WS117L-571	KHR-1	S2 no restart
1961-F13	2437626.37	1961 Nov 22 2045:47	Atlas Agena B	-	108D/2202	1.630	AFSSD	OF	S1G	G	Sat LEO A	VCR	-	S1 lost pitch control
1961-S387	2437626.38	1961 Nov 22 2104	Atlas F	-	4F	0.000	AFBSD	MS	-	AFCRL/Cunniff,Sagalyn	Test/Ionos/Aeron	JCM	-	-
1961 A IOT	2437633.13	1961 Nov 29 1507:57	Atlas D	-	93D	1.303	AFSSD/STGL	OS	-	G	Sat LEO A	SP-39	-	-
1961-S394	2437633.46	1961 Nov 29 2301:49	Atlas D	-	53D	0.000	SAC	MS	-	-	Test	VCR	-	-
1961-S403	2437635.36	1961 Dec 1 2040	Atlas E	-	35E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1961-S412	2437641.39	1961 Dec 7 2118:36	Atlas D	-	82D	0.000	SAC	MS	-	-	Test	VCR	-	-
1961-S420	2437646.34	1961 Dec 12 2016	Atlas F	-	5F	0.000	AFBSD	MF	U	-	Test	RM	-	-
1961-S430	2437653.65	1961 Dec 20 0332	Atlas E	-	36E	0.000	AFBSD	MS	-	AFCRL/Yagoda	Test/CR/Bio	RM	-	-
1961-S431	2437654.65	1961 Dec 21 0335	Atlas F	-	6F	0.000	AFBSD	MF	U	AFCRL/Katz	Test/CR/Ionos/Meteorites	RM	-	-
1961 A LAM	2437656.30	1961 Dec 22 1912:33	Atlas Agena B	-	114D/2203	3.680	AFSSD	OS	-	G	Sat LEO A 2	VCR	-	-
1962-S19	2437682.38	1962 Jan 17 2102:26	Atlas D	-	123D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962-S22	2437688.39	1962 Jan 23 2128:27	Atlas D	-	132D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962 ALP	2437691.35	1962 Jan 26 2030:11	Atlas Agena B	-	121D/6003 (AA3)	0.336	MSFC/AFSSD	DS	-	G	Sat EEO E	KHR-1	-	-
1962-S37	2437709.37	1962 Feb 13 2055	Atlas E	-	40E	0.000	AFBSD	MS	-	-	Test	RM	-	-
1962-S39	2437712.46	1962 Feb 16 2304	Atlas D	-	137D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962 GAM	2437716.12	1962 Feb 20 1447:39	Atlas D	-	109D	1.358	AFSSD/STGL	OS	-	G	Sat LEO O	KHR-1	-	-
1962-S47	2437717.44	1962 Feb 21 2230	Atlas D	-	52D	0.000	SAC	MF	U	-	OT	VCR	-	-
1962-S50	2437724.51	1962 Mar 1 0014:09	Atlas E	-	66E	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1962 ETA	2437731.42	1962 Mar 7 2210:31	Atlas Agena B	-	112D/2204	4.840	AFSSD	OS	-	G	Sat LEO A 2	VCR	-	-
1962-S77	2437747.53	1962 Mar 24 0039:32	Atlas D	-	134D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962 KAP	2437764.13	1962 Apr 9 1504:48	Atlas Agena B	-	110D/1203	1.626	AFSSD	OS	-	G	Sat MEO A 2	VCR	-	-
1962-A47	2437764.38	1962 Apr 9 2107:40	Atlas F	-	11F	0.000	AFBSD	MF	U	-	Test	AA62-0048	-	-
1962-S96	2437766.58	1962 Apr 12 0157:26	Atlas D	-	129D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962 MU	2437778.37	1962 Apr 23 2050	Atlas Agena B	-	133D/6004 (AA4)	0.336	MSFC/AFSSD	DS	-	G	Sat EEO O	KHR-1	-	-
1962 PI	2437781.29	1962 Apr 26 1856:08	Atlas Agena B	-	118D/2401	1.932	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962-S113	2437782.48	1962 Apr 27 2324	Atlas D	-	140D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962-A74	2437793.33	1962 May 8 1949	Atlas Centaur	-	F-1	0.000	MSFC	TF	FF	-	Test	KHR-1	-	-
1962-S130	2437796.52	1962 May 12 0031:48	Atlas D	-	127D	0.000	SAC	MS	-	-	OT	VCR	-	-
1962 TAU	2437809.03	1962 May 24 1245:16	Atlas D	-	107D	1.355	AFSSD/STGL	OS	-	G	Sat LEO O	KHR-1	-	-
1962 PSI	2437833.26	1962 Jun 17 1814:18	Atlas Agena B	-	115D/2402	1.932	AFSSD	OS	-	G	Sat SSO D	VCR	-	-
1962-S201	2437841.96	1962 Jun 26 1057:42	Atlas D	-	21D	0.000	SAC	MS	-	-	Target	VCR	-	-
1962-S241	2437858.21	1962 Jul 12 1657:57	Atlas D	-	141D	0.000	SAC	MS	-	-	Target	VCR	MR620723-10	Long range
1962-S242	2437859.38	1962 Jul 13 2111:33	Atlas E	-	67E	0.000	AFBSD	MF	U	-	Test	VCR	-	-
1962 A ZET	2437864.37	1962 Jul 18 2051:20	Atlas Agena B	-	120D/2403	1.700	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1962-S247	2437864.96	1962 Jul 19 1105:27	Atlas D	-	13D	0.000	SAC	MS	-	-	Test	VCR	-	-
1962-F07	2437867.89	1962 Jul 22 0921:23	Atlas Agena B	-	145D/6901 (AA5)	0.202	MSFC/AFSSD	OF	S1G	G	Sat EEO E	KHR-1	-	Software error
1962-S276	2437878.38	1962 Aug 1 2107:10	Atlas F	-	15F	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1962 A LAM	2437882.25	1962 Aug 5 1758:59	Atlas Agena B	-	124D/2404	1.932	AFSSD	OS	-	G	Sat SSO D	VCR	-	-
1962-S285	2437886.45	1962 Aug 9 2251:08	Atlas D	-	8D	0.000	SAC	MS	-	-	Test	VCR	-	-
1962-S286	2437886.46	1962 Aug 9 2305:19	Atlas D	-	87D	0.000	SAC	MS	-	-	Test	VCR	-	-
1962-A136	2437887.38	1962 Aug 10 2111:21	Atlas F	-	57F	0.000	AFBSD	MF	U	-	Test	VCR	-	-
1962-S294	2437890.42	1962 Aug 13 2200	Atlas F	-	7F	0.000	AFBSD	RS	-	UNK/	Test	RM	-	-
1962 A RHO	2437903.79	1962 Aug 27 0653:14	Atlas Agena B	-	179D/6902 (AA6)	0.203	MSFC/AFSSD	DS	-	G	Sat EEO E	KHR-1	-	-
1962-S339	2437927.31	1962 Sep 19 1930	Atlas F	-	8F	0.000	AFBSD	RS	-	UNK/	Test	RM	-	-
1962-S378	2437939.99	1962 Oct 2 1146:25	Atlas D	-	4D	0.000	SAC	MF	U	-	Target	VCR	-	-
1962 B DEL	2437941.01	1962 Oct 3 1215:11	Atlas D	-	113D	1.373	AFSSD/STGL	OS	-	G	Sat LEO O	KHR-1	-	-
1962 B ETA	2437956.21	1962 Oct 18 1659	Atlas Agena B	-	215D/6005 (AA7)	0.351	MSFC/AFSSD	DS	-	G	Sat EEO E	KHR-1	-	-
1962-S405	2437957.26	1962 Oct 19 1815	Atlas F	-	14F	0.000	AFBSD	MS	-	-	Test	RM	-	-
1962-S434	2437963.96	1962 Oct 26 1059:25	Atlas D	-	159D	0.000	AFBSD	RS	-	AFCRL/Block	Target	VCR	-	-
1962-S471	2437976.32	1962 Nov 7 1943	Atlas F	-	16F	0.000	AFBSD	MS	-	-	Test	RM	-	-
1962 B PI	2437980.35	1962 Nov 11 2017:02	Atlas Agena B	-	128D/2405	1.941	AFSSD	OS	-	G	Sat SSO D	VCR	-	-
1962-S477	2437983.44	1962 Nov 14 2236:02	Atlas F	-	13F	0.000	AFBSD	MF	U	-	Test	VCR	-	-
1962-S533	2438004.39	1962 Dec 5 2125	Atlas F	-	21F	0.000	AFBSD	MS	-	-	Test	RM	-	-
1962-S556	2438010.98	1962 Dec 12 1138:03	Atlas D	-	161D	0.000	AFBSD	MS	-	-	Target	VCR	-	-
1962-F09	2438016.36	1962 Dec 17 2036:33	Atlas Agena B	-	131D/1205	0.842	AFSSD	OF	S1P	G	Sat MEO A 2	VCR	-	Failure mode uncertain
1962-A230	2438017.23	1962 Dec 18 1726:55	Atlas E	-	64E	0.000	AFBSD	MF	U	-	ABM Test	VCR	-	-
1962-S577	2438020.90	1962 Dec 22 0929:26	Atlas D	-	160D	0.000	SAC	RS	-	AFCRL/Ulwick	ABM Test/Plume	VCR	-	-
1963-S22	2438054.95	1963 Jan 25 1044:07	Atlas D	-	39D	0.000	SAC	MF	U	-	ABM Test	VCR	-	-
1963-S30	2438060.87	1963 Jan 31 0851:51	Atlas D	-	176D	0.000	SAC	MS	-	-	ABM Test	VCR	-	-
1963-S46	2438074.00	1963 Feb 13 1155:05	Atlas D	-	182D	0.000	SAC	RS	-	NRL/	ABM Test	VCR	-	-
1963-S72	2438088.88	1963 Feb 28 0902:48	Atlas D	-	188D	0.000	SAC	MS	-	-	ABM Test	VCR	-	-
1963-S78	2438090.38	1963 Mar 1 2100	Atlas F	-	134F	0.000	AFBSD	RS	-	UNK/	Reentry Test	RM	-	-
1963-A34	2438098.61	1963 Mar 10 0242	Atlas D	-	102D	0.000	SAC	MF	U	-	OT	VCR	-	-
1963-S89	2438100.72	1963 Mar 12 0521	Atlas D	-	64D	0.000	SAC	MS	-	-	OT	VCR	-	-
1963-S98	2438103.98	1963 Mar 15 1138	Atlas D	-	46D	0.000	SAC	MF	U	-	OT	VCR	-	-
1963-S100	2438104.59	1963 Mar 16 0205:40	Atlas F	-	63F	0.000	SAC	MS	-	-	OT	VCR	-	-
1963-S102	2438104.86	1963 Mar 16 0832:22	Atlas D	-	193D	0.000	SAC	RF	U	-	Target/Aeron	VCR	-	-
1963-S111	2438110.38	1963 Mar 21 2110:08	Atlas F	-	83F	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1963-A43	2438112.52	1963 Mar 24 0029:14	Atlas F	-	52F	0.000	SAC	MF	U	-	OT	VCR	-	-
1963-S174	2438144.37	1963 Apr 24 2059:36	Atlas E	-	65E	0.000	AFBSD	MS	-	-	Test	VCR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S180	2438146.59	1963 Apr 27 0203	Atlas F	-	135F	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1963-014	2438159.34	1963 May 9 2006:16	Atlas Agena B	-	119D/1206	1.582	AFSSD	OS	-	G	Sat MEO A 2	VCR	-	-
1963-015	2438165.04	1963 May 15 1304:13	Atlas D	-	130D	1.383	AFSSD/STG	OS	-	G	Sat LEO O	KHR-1	-	-
1963-A86	2438182.52	1963 Jun 2 0026	Atlas F	-	77F	0.000	SAC	ME	-	-	Err	WWW	SACMissileChron	-
1963-S258	2438185.34	1963 Jun 4 2012:18	Atlas E	-	62E	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1963-S271	2438192.88	1963 Jun 12 0903:01	Atlas D	-	198D	0.000	SAC	MS	-	-	Target	VCR	-	-
1963-F09	2438192.50	1963 Jun 12	Atlas Agena B	-	139D/1204	0.842	AFSSD	OF	S1P	G	Sat MEO A 2	VAFB	-	Hydraulics failed
1963-S328	2438214.38	1963 Jul 3 2113:57	Atlas E	-	69E	0.000	SAC	MS	-	-	Test	VCR	-	-
1963-028	2438223.37	1963 Jul 12 2045:59	Atlas Agena D	-	201D/4702	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1963-030	2438229.66	1963 Jul 19 0351:18	Atlas Agena B	-	75D/1207	1.582	AFSSD	OS	-	G	Sat MEO A 2	VCR	-	-
1963-S361	2438237.30	1963 Jul 26 1919:00	Atlas E	-	24E	0.000	SAC	MF	U	-	Test	VCR	-	-
1963-S369	2438241.28	1963 Jul 30 1836:49	Atlas E	-	70E	0.000	SAC	MS	-	-	Test	VCR	-	-
1963-S372	2438242.37	1963 Jul 31 2052	Atlas D	-	143D	0.000	SAC	MS	-	-	Test	RM	-	-
1963-S405	2438265.91	1963 Aug 24 0950:57	Atlas E	-	72E	0.000	SAC	MS	-	-	Test	VCR	-	-
1963-S409	2438270.47	1963 Aug 28 2310	Atlas D	-	142D	0.000	SAC	MS	-	-	Test	RM	-	-
1963-036	2438279.31	1963 Sep 6 1930:18	Atlas Agena D	-	212D/4701	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1963-S434	2438279.42	1963 Sep 6 2159	Atlas D	-	63D	0.000	SAC	MF	U	-	Test	RM	-	-
1963-S440	2438284.38	1963 Sep 11 2100	Atlas D	-	84D	0.000	SAC	MF	U	-	Test	RM	-	-
1963-S458	2438297.96	1963 Sep 25 1104:41	Atlas E	-	71E	0.000	SAC	MF	U	-	OT	VCR	-	-
1963-A139	2438306.72	1963 Oct 4 0517:49	Atlas F	-	45F	0.000	AFBSD	MF	S1	-	Test	VCR	-	-
1963-A142	2438310.40	1963 Oct 7 2131	Atlas D	-	163D	0.000	SAC	MF	U	-	Test	RM	-	-
1963-039	2438319.61	1963 Oct 17 0237	Atlas Agena D	-	197D/1801	0.426	AFSSD	OS	-	G	Sat HEO O	AP	-	-
1963-041	2438328.29	1963 Oct 25 1859:27	Atlas Agena D	-	224D/4703	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1963-S521	2438330.64	1963 Oct 28 0315	Atlas F	-	136F	0.000	AFBSD	RF	S1	AFCRL/Block	Reentry Test/Plume	RM	-	-
1963-S535	2438337.90	1963 Nov 4 0934	Atlas D	-	232D	0.000	SAC	MS	-	-	Reentry Test	RM	-	-
1963-S550	2438347.44	1963 Nov 13 2235:39	Atlas D	-	158D	0.000	SAC	MF	U	-	Test	VCR	-	-
1963-047	2438361.29	1963 Nov 27 1903:23	Atlas Centaur	-	AC-2	4.600	LERC	OS	-	G	Sat LEO O	TR-1022	-	-
1963-S609	2438381.91	1963 Dec 18 0952:27	Atlas D	-	233D	0.000	SAC	MS	-	-	Reentry Test	VCR	-	-
1963-051	2438382.41	1963 Dec 18 2145:30	Atlas Agena D	-	227D/4802	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1963-S610	2438382.46	1963 Dec 18 2256:22	Atlas F	-	109F	0.000	AFBSD	MS	-	-	Test	VCR	-	-
1964-007	2438425.16	1964 Jan 30 1549:09	Atlas Agena B	-	199D/6008 (AA8)	0.381	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1964-A23	2438438.33	1964 Feb 12 1959:40	Atlas E	-	48E	0.000	SAC	MF	U	-	OT	VCR	-	-
1964-A24	2438439.26	1964 Feb 13 1811	Atlas F	-	88F	0.000	SAC	ME	-	-	Accident	WWW	MR640224-11	-
1964-009	2438451.29	1964 Feb 25 1859:47	Atlas Agena D	-	285D/4803	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-S118	2438451.35	1964 Feb 25 2022	Atlas E	-	5E	0.000	AFBSD	RS	-	UNK/	Reentry Test	Desind	GD-Atlas	-
1964-A32	2438464.41	1964 Mar 9 2154	Atlas F	-	90F	0.000	SAC	ME	-	-	Accident	WWW	MR640316-08	-
1964-012	2438466.34	1964 Mar 11 2014:24	Atlas Agena D	-	296D/4804	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-S184	2438487.35	1964 Apr 1 2022	Atlas F	-	137F	0.000	AFBSD	RS	-	AFCRL/Block,Newman	Reentry Test/Plume	RM	-	-
1964-A50	2438489.35	1964 Apr 3 2026:22	Atlas F	-	3F	0.000	SAC	MF	S1	-	OT	VCR	-	-
1964-U02	2438500.40	1964 Apr 14 2142:25	Atlas D	-	263D	0.210	AFSSD/LARCN	TS	-	LARC/Wilson	Reentry Test	TN-D-2996	-	-
1964-020	2438509.28	1964 Apr 23 1843	Atlas Agena D	-	351D/4805	2.190	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1964-A69	2438530.20	1964 May 14 1650	Atlas F	-	61F	0.000	SAC	ME	-	-	Accident	Ulrich/WichitaFTImes	SP-4005	-
1964-024	2438535.31	1964 May 19 1921:14	Atlas Agena D	-	350D/4806	2.190	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-S300	2438565.12	1964 Jun 18 1456:13	Atlas D	-	243D	0.000	SAC	RS	-	AFCRL/Ulwick	Reentry Test	VCR	-	-
1964-F09	2438577.09	1964 Jun 30 1404:22	Atlas Centaur	-	AC-3	0.900	LERC	OF	S2P	G	Sat MEO O	TR-1022	-	Hydraulic fail on S2
1964-036	2438583.29	1964 Jul 6 1851:18	Atlas Agena D	-	352D/4807	2.290	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1964-040	2438593.85	1964 Jul 17 0822	Atlas Agena D	-	216D/1802?	0.673	AFSSD	OS	-	G	Sat HEO O	MR640727-22	-	-
1964-041	2438605.20	1964 Jul 28 1650:07	Atlas Agena B	-	250D/6009 (AA9)	0.365	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1964-S387	2438605.89	1964 Jul 29 0922:56	Atlas D	-	248D	0.000	SAC	MS	-	-	Target	VCR	-	-
1964-S412	2438615.34	1964 Aug 7 2012	Atlas F	-	110F	0.000	SAC	MS	-	-	OT	RM	-	-
1964-045	2438622.42	1964 Aug 14 2200:13	Atlas SLV-3 Agena D	-	7101/4808	2.286	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-S446	2438634.91	1964 Aug 27 0954:00	Atlas E	-	57E	0.000	SAC	MS	-	-	Target	VCR	-	-
1964-S454	2438639.16	1964 Aug 31 1546:17	Atlas F	-	36F	0.000	SAC	MS	-	-	OT	VCR	-	-
1964-054	2438643.56	1964 Sep 5 0123	Atlas Agena B	-	195D/6501 (AA10)	0.487	LERC/AFSSD	OS	-	G	Sat HEO O	TR-1022	-	-
1964-S469	2438654.14	1964 Sep 15 1527	Atlas D	-	245D	0.000	SAC	RS	-	AFCRL/	Reentry Test	VCR	-	-
1964-S477	2438661.05	1964 Sep 22 1310	Atlas D	-	247D	0.000	SAC	MS	-	-	Target	AP	-	-
1964-058	2438662.34	1964 Sep 23 2005	Atlas SLV-3 Agena D	-	7102/4809	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1964-F11	2438676.31	1964 Oct 7 1930	Atlas SLV-3 Agena D	-	7103/4810	2.290	AFSSD	OF	S2P	G	Sat SSO O	DDNote	VAFB	Agena early shutdown
1964-068	2438692.27	1964 Oct 23 1827	Atlas Agena D	-	353D/4811	2.290	AFSSD	OS	-	G	Sat SSO O	DDNote	TLE	-
1964-073	2438705.31	1964 Nov 5 1922:05	Atlas Agena D	-	289D/6931 (AA11)	0.397	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	RAE-PH	-
1964-077	2438728.10	1964 Nov 28 1422:01	Atlas Agena D	-	288D/6932 (AA12)	0.261	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	RAE-PH	-
1964-S665	2438730.86	1964 Dec 1 0845:04	Atlas D	-	210D	0.000	SAC	MS	-	-	Reentry Test	VCR	-	-
1964-S668	2438733.96	1964 Dec 4 1109:17	Atlas D	-	300D	0.000	SAC	MS	-	-	Target	VCR	-	-
1964-079	2438734.29	1964 Dec 4 1900	Atlas SLV-3 Agena D	-	7105/4813	2.190	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1964-082	2438741.10	1964 Dec 11 1425:02	Atlas Centaur	-	AC-4	2.952	LERC	OF40	S2R	G	Sat MEO O	TR-1022	-	Attitude control lost in coast
1964-S700	2438752.30	1964 Dec 22 1915:20	Atlas F	-	111F	0.000	SAC	MS	-	-	Test	VCR	-	-
1965-S31	2438769.29	1965 Jan 8 1859:54	Atlas F	-	106F	0.000	SAC	MS	-	-	Test	VCR	-	-
1965-S33	2438773.11	1965 Jan 12 1432:26	Atlas D	-	166D	0.000	SAC	MS	-	-	Target	VCR	-	-
1965-F01	2438782.40	1965 Jan 21 2134:54	Atlas D	-	172D	0.085	AFSSD	OF	S1S	G	Sat LEO O	VCR	-	OV1 no sep
1965-005	2438784.34	1965 Jan 23 2006	Atlas SLV-3 Agena D	-	7106/4812	2.190	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1965-010	2438809.21	1965 Feb 17 1705:00	Atlas Agena B	-	196D/6006 (AA13)	0.368	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1965-S107	2438818.97	1965 Feb 27 1111:16	Atlas D	-	211D	0.000	SAC	MS	-	-	Reentry Test	VCR	-	-
1965-S125	2438821.91	1965 Mar 2 0952:31	Atlas D	-	301D	0.000	SAC	MS	-	-	Target	VCR	-	-
1965-F04	2438822.06	1965 Mar 2 1325	Atlas Centaur	-	AC-5	0.643	LERC	OF	SOP	G	Sat DSO O	TR-1022	-	Booster engines shut down
1965-019	2438832.31	1965 Mar 12 1920	Atlas SLV-3 Agena D	-	7104/4816	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1965-S155	2438832.47	1965 Mar 12 2321:52	Atlas D	-	154D	0.000	SAC	MS	-	-	Reentry Test	VCR	-	-
1965-023	2438841.40	1965 Mar 21 2137:02	Atlas Agena B	-	204D/6007 (AA14)	0.368	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1965-S196	2438845.88	1965 Mar 26 0901:11	Atlas D	-	297D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-027	2438854.39	1965 Apr 3 2125	Atlas SLV-3 Agena D	-	7401/7001	2.418	AFSSD	OS	-	G	Sat LEO A 2	Wire	-	-
1965-S219	2438857.07	1965 Apr 6 1334:59	Atlas D	-	150D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-031	2438879.39	1965 Apr 28 2115	Atlas SLV-3 Agena D	-	7107/4814	2.295	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1965-U04	2438903.41	1965 May 22 2155:00	Atlas D	-	264D	0.218	AFSSD/LARCN	TS	-	LARC/Wilson,Stone	Reentry Test	TR-1022	TN-D-3569	-
1965-041	2438908.37	1965 May 27 2048	Atlas SLV-3 Agena D	-	7108/4815	2.190	AFSSD	OS	-	G	Sat SSO O	PER4018	-	-
1965-F06	2438908.62	1965 May 28 0254:56	Atlas D	-	68D	0.092	AFSSD	OF	SOP	G	Sat LEO O	VCR	-	Exploded T+2m
1965-S340	2438914.94	1965 Jun 3 1038:09	Atlas D	-	177D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-S349	2438920.14	1965 Jun 8 1517:03	Atlas D	-	299D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S352	2438922.02	1965 Jun 10 1226:40	Atlas D	-	302D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-050	2438937.31	1965 Jun 25 1930	Atlas SLV-3 Agena D	-	7109/4817	2.295	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1965-S416	2438942.91	1965 Jul 1 0954:11	Atlas D	-	59D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-F07	2438954.29	1965 Jul 12 1900	Atlas SLV-3 Agena D	-	7112/4819	2.190	AFSSD	OF	S1G	G	Sat LEO O	LR650712	-	Programmer malfunction
1965-058	2438961.85	1965 Jul 20 0827	Atlas Agena D	-	225D/1803	0.463	AFSSD	OS	-	G	Sat HEO O	MR650726-29	-	-
1965-062	2438976.30	1965 Aug 3 1906	Atlas SLV-3 Agena D	-	7111/4818	2.295	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1965-S443	2438977.03	1965 Aug 4 1243:08	Atlas D	-	183D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-S444	2438978.06	1965 Aug 5 1321:28	Atlas F	-	147F	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-064	2438984.10	1965 Aug 11 1431:04	Atlas Centaur D	-	AC-6	0.945	LERC	DS	-	G	Sat DSO E	TR-1022	-	-
1965-S480	2438998.97	1965 Aug 26 1120:14	Atlas D	-	61D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1965-S521	2439032.94	1965 Sep 29 1040	Atlas D	-	125D	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1965-076	2439034.31	1965 Sep 30 1923:38	Atlas SLV-3 Agena D	-	7110/4821	2.190	AFSSD	OS	-	G	Sat SSO O	PET4022/65	LR650930	-
1965-078	2439038.88	1965 Oct 5 0907:08	Atlas D	-	34D/NB20.170 RS	0.156	AFSSD	OS	-	G	Sat MEO O	VCR	-	-
1965-F11	2439059.12	1965 Oct 25 1500	Atlas SLV-3 Agena D	-	5301/5002	0.500	MSC/AFSSD	OF	S2I	G	Sat LEO A	KHR-1	-	Agena exploded at ignition
1965-090	2439073.31	1965 Nov 8 1930	Atlas SLV-3 Agena D	-	7113/4822	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	RAE	-
1965-S654	2439094.10	1965 Nov 29 1430:13	Atlas D	-	200D	0.000	AFBSD	RS	-	-	Reentry Test	VCR	-	-
1965-S692	2439115.07	1965 Dec 20 1339:56	Atlas D	-	85D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-002	2439145.34	1966 Jan 19 2003	Atlas SLV-3 Agena D	-	7114/4825	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-S104	2439166.91	1966 Feb 10 0948:46	Atlas D	-	305D	0.000	AFBSD	RS	-	AFCRL/Lovett	Reentry Test/Plume	VCR	-	-
1966-S110	2439168.05	1966 Feb 11 1304:53	Atlas D	-	86D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-012	2439172.35	1966 Feb 15 2030	Atlas SLV-3 Agena D	-	7115/4820	2.203	AFSSD	OS	-	G	Sat SSO O	TLE	DDpc	-
1966-S119	2439175.91	1966 Feb 19 0956:42	Atlas D	-	73D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-S150	2439189.02	1966 Mar 4 1229:55	Atlas D	-	303D	0.000	AFSSD	MF	U	-	Reentry Test	VCR	GDC/BKF66-018	-
1966-019	2439201.13	1966 Mar 16 1500:03	Atlas SLV-3 Agena D	-	5302/5003	3.228	MSC/AFSSD	OS	-	G	Sat LEO A	KHR-1	-	-
1966-022	2439203.33	1966 Mar 18 2000	Atlas SLV-3 Agena D	-	7116/4823	2.190	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1966-S175	2439204.01	1966 Mar 19 1220:00	Atlas D	-	304D	0.000	AFBSD	MS	-	-	Reentry Test	1STRAD	RM	-
1966-025	2439214.89	1966 Mar 30 0920:12	Atlas D	-	72D/NB20.152 RS	0.451	AFSSD	OS	-	G	Sat LEO OO	VCR	-	-
1966-030	2439223.54	1966 Apr 8 0100:02	Atlas Centaur D	-	AC-8	0.785	LERC	OF40	S2R	G	Sat DSO O	TR-1022	-	One Centaur engine ft restart
1966-031	2439224.32	1966 Apr 8 1935:00	Atlas SLV-3 Agena D	-	5001/6703 (AA15)	1.769	LERC/AFSSD	OS	-	G	Sat LEO O	TR-1022	-	-
1966-032	2439235.30	1966 Apr 19 1915	Atlas SLV-3 Agena D	-	7117/4827	2.190	AFSSD	OS	-	G	Sat LEO O	RAE	-	-
1966-S250	2439248.94	1966 May 3 1030:20	Atlas D	-	208D	0.000	AFBSD	MF	U	-	Reentry Test	VCR	-	-
1966-S262	2439258.99	1966 May 13 1143:52	Atlas D	-	98D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-039	2439260.29	1966 May 14 1902	Atlas SLV-3 Agena D	-	7118/4824	2.295	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-F07	2439263.14	1966 May 17 1515:03	Atlas SLV-3 Agena D	-	5303/5004	0.500	MSC/AFSSD	OF	S1G	G	Sat LEO A	GT9PAO	-	Atlas pitched over
1966-S281	2439272.00	1966 May 26 1204:27	Atlas D	-	41D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-045	2439276.11	1966 May 30 1441:01	Atlas Centaur D	-	AC-10	0.986	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1966-046	2439278.13	1966 Jun 1 1500:02	Atlas SLV-3	-	5304	1.050	MSC/AFSSD	OS	-	G	Sat LEO A	KHR-1	Baker	-
1966-048	2439280.31	1966 Jun 3 1925	Atlas SLV-3 Agena D	-	7119/4826	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-049	2439283.62	1966 Jun 7 0248	Atlas SLV-3 Agena B	-	5601/6502 (AA16)	0.487	LERC/AFSSD	OS	-	G	Sat HEO O	TR-1022	-	-
1966-051	2439286.34	1966 Jun 9 2015	Atlas SLV-3 Agena D	-	7201/1351	2.023	AFSSD	OS	-	G	Sat MEO O	VScrolls	-	-
1966-S309	2439286.97	1966 Jun 10 1115	Atlas D	-	96D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-S343	2439303.15	1966 Jun 26 1534:47	Atlas D	-	147D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-S357	2439306.92	1966 Jun 30 1000	Atlas D	-	298D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1966-062	2439319.25	1966 Jul 12 1755	Atlas SLV-3 Agena D	-	7120/4828	2.190	AFSSD	OS	-	G	Sat SSO O	VScrolls	-	-
1966-063	2439320.59	1966 Jul 14 0210:02	Atlas D	-	58D	0.266	AFSSD	OF50	S1S	G	Sat LEO OO 3	VCR	WDCRF	OV1-7 bad sep, OV1-8 fine
1966-065	2439325.36	1966 Jul 18 2039:46	Atlas SLV-3 Agena D	-	5305/5005	3.259	MSC/AFSSD	OS	-	G	Sat LEO A	SP-4203	KHR-1	-
1966-S430	2439346.24	1966 Aug 8 1747:38	Atlas F	-	149F	0.000	AFBSD	MF	U	-	Reentry Test	VCR	-	-
1966-073	2439348.31	1966 Aug 10 1926:00	Atlas SLV-3 Agena D	-	5801/6630 (AA17)	0.380	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1966-074	2439354.27	1966 Aug 16 1830	Atlas SLV-3 Agena D	-	7121/4829	2.295	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-077	2439357.31	1966 Aug 19 1925	Atlas SLV-3 Agena D	-	7202/1352	2.023	AFSSD	OS	-	G	Sat MEO O	VScrolls	RAE	-
1966-080	2439381.05	1966 Sep 12 1305:02	Atlas SLV-3 Agena D	-	5306/5006	3.265	MSC/AFSSD	OS	-	G	Sat LEO A	KHR-1	-	-
1966-083	2439385.25	1966 Sep 16 1759	Atlas SLV-3 Agena D	-	7123/4832	2.295	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-084	2439389.02	1966 Sep 20 1232:00	Atlas Centaur D	-	AC-7	1.004	LERC	DS	-	G	Sat EEO E	JPL-TR32-1086	TR-1022	-
1966-089	2439404.42	1966 Oct 5 2200	Atlas SLV-3 Agena D	-	7203/1353	2.018	AFSSD	OS	-	G	Sat MEO O	VScrolls	-	-
1966-M37	2439410.33	1966 Oct 11 1959:41	Atlas F	-	115F	0.000	AFBSD	MF	U	-	Reentry Test	VCR	-	-
1966-090	2439411.30	1966 Oct 12 1915	Atlas SLV-3 Agena D	-	7122/4830	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-095	2439424.97	1966 Oct 26 1112:02	Atlas Centaur D	-	AC-9	0.726	LERC	DS	-	G	Sat DSO O	TR-1022	-	-
1966-098	2439432.35	1966 Nov 2 2024	Atlas SLV-3 Agena D	-	7124/4831	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-100	2439436.47	1966 Nov 6 2321:00	Atlas SLV-3 Agena D	-	5802/6631 (AA18)	0.380	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1966-103	2439441.30	1966 Nov 11 1907:59	Atlas SLV-3 Agena D	-	5307/5001R	3.227	MSC/AFSSD	OS	-	G	Sat LEO A	GT12PAO	-	-
1966-109	2439465.38	1966 Dec 5 2109	Atlas SLV-3 Agena D	-	7125/4833	2.190	AFSSD	OS	-	G	Sat LEO O	VScrolls	-	-
1966-110	2439466.59	1966 Dec 7 0212:01	Atlas SLV-3 Agena D	-	5101/6151 (AA19)	0.714	LERC/AFSSD	OS	-	G	Sat GTO O	TR-1022	-	-
1966-111	2439471.38	1966 Dec 11 2109:57	Atlas D	-	89D	0.480	AFSSD	OS	-	G	Sat MEO OO	VCR	-	-
1966-U08	2439481.43	1966 Dec 21 2215:02	Atlas SLV-3	-	7001	2.716	AFSSD	TS	-	-	Reentry Test	VCR	-	-
1967-S63	2439508.57	1967 Jan 18 0134	Atlas F	-	148F	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1967-S67	2439513.16	1967 Jan 22 1544:54	Atlas D	-	35D	0.000	AFBSD	MS	-	-	Reentry Test	VCR	-	-
1967-007	2439524.33	1967 Feb 2 2000	Atlas SLV-3 Agena D	-	7126/4834	2.190	AFSSD	OS	-	G	Sat SSO O	LR670203	-	-
1967-008	2439526.55	1967 Feb 5 0117:01	Atlas SLV-3 Agena D	-	5803/6632 (AA20)	0.389	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1967-S120	2439535.42	1967 Feb 13 2205	Atlas F	-	121F	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1967-U02	2439555.46	1967 Mar 5 2305	Atlas SLV-3	-	7002	2.716	AFSSD	TS	-	-	Reentry Test	VCR	-	-
1967-S159	2439566.25	1967 Mar 16 1756	Atlas F	-	151F	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1967-031	2439586.64	1967 Apr 6 0323:01	Atlas SLV-3 Agena D	-	5102/6152 (AA21)	0.325	LERC/AFSSD	OS	-	G	Sat MTO O	TR-1022	-	-
1967-S198	2439587.97	1967 Apr 7 1119:23	Atlas D	-	38D	0.000	AFBSD	RS	-	AFCRL/	Reentry Test/Ionos	VCR	-	-
1967-035	2439597.80	1967 Apr 17 0705:01	Atlas Centaur D	-	AC-12	1.041	LERC	DS	-	G	Sat EEO E	TR-1022	Wilson-SSL	-
1967-U03	2439600.57	1967 Apr 20 0135:01	Atlas SLV-3	-	7003	2.716	AFSSD	TS	-	-	Reentry Test	VCR	-	-
1967-041	2439615.43	1967 May 4 2225:00	Atlas SLV-3 Agena D	-	5804/6633 (AA22)	0.389	LERC/AFSSD	DS	-	G	Sat EEO E	NASA-TM-X-3487	MOR	-
1967-S266	2439630.42	1967 May 19 2200	Atlas F	-	119F	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1967-050	2439633.27	1967 May 22 1830	Atlas SLV-3 Agena D	-	7127/4838	2.190	AFSSD	OS	-	G	Sat LEO O	SR12,529	-	-
1967-055	2439646.25	1967 Jun 4 1807:01	Atlas SLV-3 Agena D	-	7128/4837	2.190	AFSSD	OS	-	G	Sat LEO O	GDC/BKF67-035	-	-
1967-S299	2439650.93	1967 Jun 9 1023	Atlas F/Trident	-	122F (KX-101)	0.000	AFBSD	MS	-	-	Reentry Test	RM	-	-
1967-060	2439655.75	1967 Jun 14 0601:00	Atlas SLV-3 Agena D	-	5401/6933 (AA23)	0.245	LERC/AFSSD	DS	-	G	Sat EEO E	TR-1022	-	-
1967-S338	2439677.50	1967 Jul 6	Atlas D	-	65D	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1967-068	2439686.00	1967 Jul 14 1153:29	Atlas Centaur D	-	AC-11	1.042	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1967-S354	2439693.50	1967 Jul 22	Atlas F/Trident	-	114F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1967-072	2439699.29	1967 Jul 27 1900:03	Atlas D	-	92D	0.630	SAMSO	OS66	S2I	G	Sat SSO OOO	VCR	-	One of 3 OV1 failed to ignite
1967-S359	2439700.87	1967 Jul 29 0848	Atlas F	-	150F	0.000	SAMSB	MS	-	-	Reentry Test	UPI	VAFB	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-075	2439704.44	1967 Aug 1 2233:00	Atlas SLV-3 Agena D	-	5805/6634 (AA24)	0.392	LERC/SAMSO	DS	-	G	Sat EEO E	TR-1022	-	-
1967-084	2439741.83	1967 Sep 8 0757:01	Atlas SLV-3C Centaur	-	AC-13	1.006	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1967-S486	2439774.98	1967 Oct 11 1130:03	Atlas D	-	69D	0.000	SAMSB	MS	-	-	Reentry Test	VCR	-	-
1967-S492	2439777.50	1967 Oct 14	Atlas F	-	118F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1967-A131	2439791.05	1967 Oct 27 1310	Atlas F/Trident	-	81F	0.000	SAMSB	MF	U	-	Reentry Test	Wire	VAFB	-
1967-111	2439800.48	1967 Nov 5 2337:00	Atlas SLV-3 Agena D	-	5103/6153 (AA25)	0.714	LERC/SAMSO	OS	-	G	Sat GTO O	TR-1022	-	-
1967-112	2439801.82	1967 Nov 7 0739:01	Atlas SLV-3C Centaur	-	AC-14	1.007	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1967-S527	2439802.05	1967 Nov 7 1317:54	Atlas D	-	94D	0.000	SAMSB	MS	-	-	Reentry Test	VCR	-	-
1967-S530	2439805.01	1967 Nov 10 1220	Atlas F	-	113F	0.000	SAMSB	MS	-	-	Reentry Test	JCM	-	-
1967-S591	2439845.90	1967 Dec 21 0938	Atlas F/Trident	-	117F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1968-001	2439862.77	1968 Jan 7 0630:00	Atlas SLV-3C Centaur	-	AC-15	1.038	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1968-S103	2439887.06	1968 Jan 31 1330	Atlas F/Trident	-	94F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1968-S151	2439913.82	1968 Feb 27 0735	Atlas F	-	116F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1968-014	2439920.05	1968 Mar 4 1306:01	Atlas SLV-3A Agena D	-	5602A/6503 (AA26)	0.611	LERC/SAMSO	OS	-	G	Sat DSO O	TR-1022	-	-
1968-S168	2439921.93	1968 Mar 6 1015	Atlas E/Trident	-	74E	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1968-026	2439952.92	1968 Apr 6 0959:42	Atlas F	-	107F	0.458	SAMSO	OS	-	G	Sat MEO OO	VCR	-	-
1968-S267	2439964.83	1968 Apr 18 0755	Atlas E	-	77E	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/UPI	VAFB	-
1968-S288	2439973.90	1968 Apr 27 0941	Atlas E/Trident	-	78E	0.000	SAMSB	MS	-	-	Reentry Test	Wire/Ulrich	VAFB	-
1968-S303	2439980.09	1968 May 3 1408	Atlas F	-	95F	0.000	SAMSB	MF	U	-	Reentry Test	Wire	VAFB	-
1968-S356	2440008.50	1968 Jun 1	Atlas F	-	89F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1968-S382	2440029.50	1968 Jun 22	Atlas F/Trident	-	86F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1968-S387	2440036.92	1968 Jun 29 1012	Atlas F	-	32F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/UPI	VAFB	-
1968-059	2440049.31	1968 Jul 11 1930	Atlas F	-	75F	0.737	SAMSO	OS	-	G	Sat LEO OO	LongBeachInd660712	-	-
1968-063	2440074.96	1968 Aug 6 1108	Atlas SLV-3A Agena D	-	5501A/2801?	0.240	SAMSO	OS	-	G	Sat GEO O	Desind	-	-
1968-068	2440079.44	1968 Aug 10 2233:02	Atlas SLV-3C Centaur	-	AC-17	2.548	LERC	OF40	S2R	G	Sat GTO O	TR-1022	-	Boost pump failure in coast
1968-F07	2440085.37	1968 Aug 16 2057:44	Atlas Burner 2	-	7004	0.458	SAMSO	OF	FF	G	Sat LEO O	VCR	-	Fairing ft sep
1968-S509	2440125.00	1968 Sep 25 1154	Atlas F/Trident	-	99F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/PhilInq	VAFB	-
1968-S513	2440126.50	1968 Sep 27	Atlas F	-	84F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1968-A111	2440177.00	1968 Nov 16 1200	Atlas F/Trident	-	56F	0.000	SAMSB	MF	U	-	Reentry Test	Ulrich/Bakersfield	NRL-8061	-
1968-S608	2440185.01	1968 Nov 24 1210	Atlas F	-	60F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1968-110	2440197.86	1968 Dec 7 0840:09	Atlas SLV-3C Centaur	-	AC-16	2.018	LERC	OS	-	G	Sat LEO O	TR-1022	-	-
1969-S68	2440237.98	1969 Jan 16 1133	Atlas F/Trident	-	70F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1969-014	2440277.56	1969 Feb 25 0129:02	Atlas SLV-3C Centaur	-	AC-20	0.385	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1969-025	2440298.82	1969 Mar 18 0747:35	Atlas F	-	104F	0.750	SAMSO	OS	-	G	Sat MEO OOO	Desind	RAE	-
1969-030	2440308.43	1969 Mar 27 2222:01	Atlas SLV-3C Centaur	-	AC-19	0.383	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1969-036	2440324.60	1969 Apr 13 0230	Atlas SLV-3A Agena D	-	5502A/2802?	0.260	SAMSO	OS	-	G	Sat GEO O	AP	RAE	-
1969-069	2440445.96	1969 Aug 12 1101:04	Atlas SLV-3C Centaur	-	AC-18	0.845	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1969-S457	2440454.00	1969 Aug 20 1205	Atlas F	-	112F	0.000	SAMSB	MS	-	-	Reentry Test	Wire/Ulrich	VAFB	-
1969-S503	2440480.50	1969 Sep 16	Atlas F/Trident	-	100F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1969-A174	2440505.00	1969 Oct 10 1207	Atlas F/Trident	-	98F	0.000	SAMSB	MF	U	-	Reentry Test	Ulrich/LompocR	VAFB	-
1969-S643	2440559.89	1969 Dec 4 0915	Atlas F	-	44F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/Wire	VAFB	-
1969-S663	2440568.01	1969 Dec 12 1213	Atlas F/Trident	-	93F	0.000	SAMSB	MS	-	-	Reentry Test	Wire	VAFB	-
1970-S109	2440626.02	1970 Feb 8 1222	Atlas F/Trident	-	96F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/UPI	VAFB	-
1970-S244	2440658.98	1970 Mar 13 1125	Atlas F/Trident	-	28F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1970-S376	2440736.86	1970 May 30 0838	Atlas F/Trident	-	91F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1970-S392	2440747.02	1970 Jun 9 1223	Atlas F	-	92F	0.000	SAMSB	MS	-	-	Reentry Test	NYT700610	VAFB	-
1970-046	2440756.98	1970 Jun 19 1137	Atlas SLV-3A Agena D	-	5201A/1551?	0.700	SAMSO	OS	-	G	Sat GTO O	ETR-IDX-FY70	-	-
1970-069	2440830.54	1970 Sep 1 0100	Atlas SLV-3A Agena D	-	5203A/2803?	0.260	SAMSO	OS	-	G	Sat GEO O	AFMTC	-	-
1970-U03	2440921.44	1970 Nov 30 2240:05	Atlas SLV-3C Centaur	-	AC-21	2.130	LERC	OF	FF	G	Sat LEO O	TR-1022	-	Fairing ft sep
1970-S656	2440942.86	1970 Dec 22 0838	Atlas F/Trident	-	105F	0.000	SAMSB	MS	-	-	Reentry Test	AP	VAFB	-
1971-006	2440977.53	1971 Jan 26 0036:03	Atlas SLV-3C Centaur	-	AC-25	1.408	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1971-S227	2441046.86	1971 Apr 5 0843	Atlas F	-	85F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1971-F04	2441080.55	1971 May 9 0111:02	Atlas SLV-3C Centaur	-	AC-24	1.031	LERC	OF	S2G	G	Sat EEO E	JPL-TR-32-1550	-	Pitch rate gyro failed
1971-051	2441102.43	1971 May 30 2223:04	Atlas SLV-3C Centaur	-	AC-23	1.031	LERC	DS	-	G	Sat EEO E	JPL-TR-32-1550	-	-
1971-S350	2441131.97	1971 Jun 29 1112	Atlas F/Trident	-	103F	0.000	SAMSB	MS	-	-	Reentry Test	Wire	VAFB	-
1971-067	2441170.51	1971 Aug 7 0011	Atlas F	-	76F	1.109	SAMSO	OS	-	G	Sat LEO OO	UPI	-	-
1971-S418	2441195.98	1971 Sep 1 1127	Atlas F	-	74F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/UPI	VAFB	-
1971-F13	2441290.44	1971 Dec 4 2233	Atlas SLV-3A Agena D	-	5503A/2804?	0.240	SAMSO	OF	S1P	G	Sat GEO O	Wire	AFMTC	Turbine failed
1971-116	2441305.55	1971 Dec 20 0110:04	Atlas SLV-3C Centaur	-	AC-26	1.408	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1972-003	2441339.51	1972 Jan 23 0012:04	Atlas SLV-3C Centaur	-	AC-28	1.408	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1972-012	2441379.58	1972 Mar 3 0149:04	Atlas SLV-3C Centaur	-	AC-27	0.340	LERC	DS	-	G	Sat EEO OE	TR-1022	-	-
1972-041	2441482.41	1972 Jun 13 2153:04	Atlas SLV-3C Centaur	-	AC-29	1.416	LERC	OS	-	G	Sat GTO O	TR-1022	SP-4017	-
1972-065	2441550.94	1972 Aug 21 1028:02	Atlas SLV-3C Centaur	-	AC-22	2.177	LERC	OS	-	G	Sat LEO O	TR-1022	-	-
1972-076	2441593.34	1972 Oct 2 2010?	Atlas Burner 2	-	102F	0.773	SAMSO	OS	-	G	Sat SSO O	TLE	-	-
1972-101	2441672.43	1972 Dec 20 2220	Atlas SLV-3A Agena D	-	5204A/2805?	0.350	SAMSO	OS	-	G	Sat GEO O	ETR-IDX-FY73	-	-
1973-013	2441747.90	1973 Mar 6 0930	Atlas SLV-3A Agena D	-	5202A/1552?	0.700	SAMSO	OS	-	G	Sat GTO O	ETR-IDX-FY73	-	-
1973-019	2441778.59	1973 Apr 6 0211:00	Atlas SLV-3D Centaur	-	AC-30	0.340	LERC	DS	-	G	Sat EEO OE	TR-1022	-	-
1973-058	2441918.46	1973 Aug 23 2257:02	Atlas SLV-3D Centaur	-	AC-31	1.416	LERC	OS	-	G	Sat GTO O	TR-1022	SP-4018	-
1973-S287	2441923.89	1973 Aug 29 0918	Atlas F	-	78F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1973-S321	2441955.50	1973 Sep 30	Atlas F	-	108F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1973-085	2441989.74	1973 Nov 3 0545:00	Atlas SLV-3D Centaur	-	AC-34	0.502	LERC	DS	-	G	Sat EEO E	TR-1022	-	-
1974-S127	2442112.50	1974 Mar 6	Atlas F	-	73F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1974-S148	2442129.50	1974 Mar 23	Atlas F	-	97F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1974-S186	2442169.18	1974 May 1 1617	Atlas F	-	54F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocRec	VAFB	-
1974-S235	2442227.14	1974 Jun 28 1515	Atlas F	-	82F	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1974-054	2442242.72	1974 Jul 14 0517	Atlas F/PTS	-	69F	0.513	SAMSO	OS	-	G	Sat MEO OO	Falworth	-	-
1974-S295	2442298.50	1974 Sep 8	Atlas F	-	80F	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1974-S347	2442334.66	1974 Oct 14 0346	Atlas F	-	31F	0.000	SAMSB	MS	-	-	Reentry Test	TucsonDly741014-1h	VAFB	-
1974-093	2442373.49	1974 Nov 21 2343:59	Atlas SLV-3D Centaur	-	AC-32	1.387	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1975-F01	2442464.48	1975 Feb 20 2335:00	Atlas SLV-3D Centaur	-	AC-33	1.408	LERC	OF	SOS	G	Sat GTO O	TR-1022	-	Lost control after BSEP
1975-F03	2442515.54	1975 Apr 13 0051	Atlas F	-	71F	0.725	SAMSO	OF	PE	G	Sat LEO O	JG9602	-	Pad eqpt exploded at ignition?
1975-042	2442555.42	1975 May 22 2204:00	Atlas SLV-3D Centaur	-	AC-35	1.387	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1975-055	2442581.88	1975 Jun 18 0900:00	Atlas SLV-3A Agena D	-	5506A/2806?	0.350	SAMSO	OS	-	G	Sat GEO O	CCMOPS	ETR-IML-FY75	-
1975-091	2442681.51	1975 Sep 26 0017:00	Atlas SLV-3D Centaur	-	AC-36	1.479	LERC	OS	-	G	Sat GTO O	TR-1022	-	-
1976-010	2442807.50	1976 Jan 29 2356	Atlas SLV-3D Centaur	-	AC-37	1.479	LERC	OS	-	G	Sat GTO O	KHR-1	-	-
1976-038	2442899.30	1976 Apr 30 1912	Atlas F/MSD	-	59F	1.210	SAMSO	OS	-	G	Sat LEO SA 1	JCM	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-042	2442912.44	1976 May 13 2228	Atlas SLV-3D Centaur	-	AC-38	1.490	LERC	OS	-	G/C	Sat GTO O	KHR-1	-	-
1976-073	2442982.42	1976 Jul 22 2204:00	Atlas SLV-3D Centaur	-	AC-40	1.490	LERC	OS	-	G/C	Sat GTO O	CCMOPS	-	-
1977-038	2443287.26	1977 May 23 1813:00	Atlas SLV-3A Agena D	-	5507A/2807	0.450	SAMSO	OS	-	G	Sat GTO O	CCMOPS	-	-
1977-041	2443290.41	1977 May 26 2147:01	Atlas SLV-3D Centaur	-	AC-39	1.515	LERC	OS	-	G	Sat GTO O	CCMOPS	-	-
1977-053	2443317.85	1977 Jun 23 0817	Atlas F/SVS	-	65F	0.947	SAMSO	OS	-	G	Sat MTO SO	JCM	-	-
1977-075	2443367.77	1977 Aug 12 0629:31	Atlas SLV-3D Centaur	-	AC-45	2.514	LERC	OS	-	G	Sat LEO O	CCMOPS	-	-
1977-F05	2443416.54	1977 Sep 30 0102:59	Atlas SLV-3D Centaur	-	AC-43	1.515	LERC	OF	S0P	G	Sat GTO O	CCMOPS	-	Gas generator leak
1977-112	2443486.24	1977 Dec 8 1745	Atlas F/MSD	-	50F	1.210	SAMSO	OS	-	G	Sat LEO SA 1	JG9602	-	-
1977-114	2443489.45	1977 Dec 11 2245:01	Atlas SLV-3A Agena D	-	5504A/1553	0.700	SAMSO	OS	-	G	Sat GTO O	CCMOPS	-	-
1978-002	2443515.51	1978 Jan 7 0015:00	Atlas SLV-3D Centaur	-	AC-46	1.515	LERC	OS	-	G	Sat GTO O	CCMOPS	-	-
1978-016	2443549.39	1978 Feb 9 2117:01	Atlas SLV-3D Centaur	-	AC-44	1.876	LERC	OS	-	G	Sat GTO O	CCMOPS	-	-
1978-020	2443562.49	1978 Feb 22 2344?	Atlas F/SVS	-	64F	1.147	SAMSO	OS	-	G	Sat MTO SO	RAE	-	-
1978-035	2443599.48	1978 Mar 31 2336:01	Atlas SLV-3D Centaur	-	AC-48	1.480	LERC	OS	-	G	Sat GTO O	CCMOPS	-	-
1978-038	2443605.53	1978 Apr 7 0045:01	Atlas SLV-3A Agena D	-	5505A/1554	0.700	SAMSO	OS	-	G	Sat GTO O	CCMOPS	Cleary	-
1978-047	2443641.94	1978 May 13 1034	Atlas F/SVS	-	49F	1.147	SAMSO	OS	-	G	Sat MTO SO 1	JCM	-	-
1978-051	2443649.05	1978 May 20 1313:00	Atlas SLV-3D Centaur	-	AC-50	0.590	LERC	DS	-	G	Sat EEO E	CCMOPS	-	-
1978-064	2443686.55	1978 Jun 27 0112:44	Atlas F/Agena D	-	23F/6351	2.290	SAMSO	OS	-	G	Sat LEO A	JPL80-38-II	-	-
1978-068	2443689.43	1978 Jun 29 2224:59	Atlas SLV-3D Centaur	-	AC-41	1.490	LERC	OS	-	G/C	Sat GTO O	MOR M-491-201-78-03	-	-
1978-078	2443728.81	1978 Aug 8 0733	Atlas SLV-3D Centaur	-	AC-51	0.875	LERC	DS	-	G	Sat EEO E	KHR-1	-	-
1978-093	2443788.52	1978 Oct 7 0028?	Atlas F/SVS	-	47F	1.147	SAMSO	OS	-	G	Sat MTO SO	RAE	-	-
1978-096	2443794.97	1978 Oct 13 1123:00	Atlas F	-	29F	1.405	SAMSO	OS	-	G	Sat SSO A 2	NOAA-Hussey79	-	-
1978-103	2443825.73	1978 Nov 13 0524	Atlas SLV-3D Centaur	-	AC-52	3.135	LERC	OS	-	G	Sat LEO O	KHR-1	-	-
1978-112	2443853.67	1978 Dec 11 0359	Atlas F/SVS	-	39F	1.147	SAMSO	OS	-	G	Sat MTO SO	JCM	-	-
1979-017	2443928.85	1979 Feb 24 0820	Atlas F/OIS	-	27F	1.039	SAMSO	OS	-	G	Sat SSO O 2	Falworth	-	-
1979-038	2443998.29	1979 May 4 1857:00	Atlas SLV-3D Centaur	-	AC-47	1.876	LERC	OS	-	G	Sat GTO O	patrick.af.mil	-	-
1979-057	2444052.16	1979 Jun 27 1551:59	Atlas F	-	25F	1.418	SAMSO	OS	-	G	Sat SSO A 2	POES-WWW	-	-
1979-082	2444136.73	1979 Sep 20 0528	Atlas SLV-3D Centaur	-	AC-53	2.860	LERC	OS	-	G	Sat LEO O	SP-4024	-	-
1980-004	2444256.56	1980 Jan 18 0126:00	Atlas SLV-3D Centaur	-	AC-49	1.876	LERC	OS	-	G	Sat GTO O	patrick.af.mil	-	-
1980-011	2444279.46	1980 Feb 9 2308	Atlas F/SVS	-	35F	1.164	AFSD	OS	-	G	Sat MTO SO	LR800211	-	-
1980-019	2444301.89	1980 Mar 3 0927	Atlas F/MSD	-	67F	1.260	AFSD	OS	-	G	Sat LEO SA 1	LR800303	-	-
1980-032	2444355.92	1980 Apr 26 1000	Atlas F/SVS	-	34F	0.925	AFSD	OS	-	G	Sat MTO SO 1	TLE	-	-
1980-043	2444388.95	1980 May 29 1053	Atlas F	-	19F	1.418	AFSD	OS	-	G	Sat SSO A 2	Falworth	-	-
1980-087	2444543.66	1980 Oct 31 0354	Atlas SLV-3D Centaur	-	AC-57	1.876	LERC	OS	-	G	Sat GTO O	Falworth	-	-
1980-098	2444580.48	1980 Dec 6 2331	Atlas SLV-3D Centaur	-	AC-54	1.870	LERC	OS	-	G	Sat GTO O	AP	-	-
1980-U01	2444582.80	1980 Dec 9 0718	Atlas E/MSD	-	68E	1.196	AFSD	OF	S1P	G	Sat LEO SA 1	AWST801215-19	-	Destroyed RSO
1981-018	2444657.47	1981 Feb 21 2323	Atlas SLV-3D Centaur	-	AC-42	1.490	LERC	OS	-	G/C	Sat GTO O	JCM	-	-
1981-050	2444748.45	1981 May 23 2242	Atlas SLV-3D Centaur	-	AC-56	1.870	LERC	OS	-	G	Sat GTO O	Falworth	-	-
1981-059	2444778.95	1981 Jun 23 1052:59	Atlas F	-	87F	1.418	AFSD	OS	-	G	Sat SSO A 2	POES-WWW	-	-
1981-073	2444822.84	1981 Aug 6 0816:00	Atlas SLV-3D Centaur	-	AC-59	1.876	LERC	OF25	FS	G	Sat GTO O	Falworth	-	PLA fail, SC damage in ascent
1981-119	2444954.48	1981 Dec 15 2335	Atlas SLV-3D Centaur	-	AC-55	1.928	LERC	OS	-	G	Sat GTO O	JCM	-	-
1981-F03	2444957.55	1981 Dec 19 0110	Atlas E/SVS	-	76E	0.949	AFSD	OF	S0P	G	Sat MTO SO	LR781220	-	B2 engine lost thrust
1982-017	2445033.52	1982 Mar 5 0023	Atlas SLV-3D Centaur	-	AC-58	1.928	LERC	OS	-	G	Sat GTO O	Desind	-	-
1982-097	2445241.47	1982 Sep 28 2317	Atlas SLV-3D Centaur	-	AC-60	1.972	LERC	OS	-	G	Sat GTO O	JCM	-	-
1982-118	2445324.61	1982 Dec 21 0238	Atlas E	-	60E	1.480	AFSD	OS	-	G	Sat SSO A 2	JCM	-	-
1983-008	2445375.07	1983 Feb 9 1347	Atlas H	-	6001H	1.246	AFSD	OS	-	G	Sat LEO SA 1	LR830209	-	-
1983-022	2445422.16	1983 Mar 28 1552:00	Atlas E	-	73E	1.712	AFSD	OS	-	G	Sat SSO A 2	LR830328	POES-WWW	-
1983-047	2445474.43	1983 May 19 2226	Atlas SLV-3D Centaur	-	AC-61	1.928	LERC	OS	-	G	Sat GTO O	Falworth	-	-
1983-056	2445495.47	1983 Jun 9 2323	Atlas H	-	6002H	1.210	AFSD	OS	-	G	Sat LEO SA 1	JG9602	-	-
1983-072	2445529.93	1983 Jul 14 1021	Atlas E/SGS-2	-	75E	0.792	AFSD	OS	-	G	Sat MTO O 1	JG9602	-	-
1983-113	2445656.77	1983 Nov 18 0632	Atlas E	-	58E	1.513	AFSD	OS	-	G	Sat SSO A 2	JG9602	-	-
1984-012	2445736.28	1984 Feb 5 1844	Atlas H	-	6003H	1.210	AFSD	OS	-	G	Sat LEO SA 1	LR840206	-	-
1984-057	2445861.46	1984 Jun 9 2303	Atlas G Centaur	-	AC-62	2.016	LERC	OF40	S2R	G	Sat GTO O	Desind	-	FOD in fuel line
1984-059	2445864.98	1984 Jun 13 1137	Atlas E/SGS-2	-	42E	0.792	AFSD	OS	-	G	Sat MTO O 1	LR840613	-	-
1984-097	2445952.40	1984 Sep 8 2141	Atlas E/SGS-2	-	14E	0.792	AFSD	OS	-	G	Sat MTO O 1	LR840909	-	-
1984-123	2446046.95	1984 Dec 12 1042:00	Atlas E	-	39E	1.712	AFSD	OS	-	G	Sat SSO A 2	JCM	-	-
1985-021	2446137.58	1985 Mar 13 0200	Atlas E/OIS	-	41E	1.050	AFSD	OS	-	G	Sat LEO O 4	LR850313	-	-
1985-025	2446147.50	1985 Mar 22 2355	Atlas G Centaur	-	AC-63	2.013	LERC	OS	-	G	Sat GTO O	Falworth	-	-
1985-055	2446246.53	1985 Jun 30 0044	Atlas G Centaur	-	AC-64	2.016	LERC	OS	-	G	Sat GTO O	Wire	-	-
1985-087	2446337.47	1985 Sep 28 2317	Atlas G Centaur	-	AC-65	2.016	LERC	OS	-	G	Sat GTO O	Falworth	-	-
1985-093	2446347.62	1985 Oct 9 0253	Atlas E/SGS-2	-	55E	0.792	AFSD	OS	-	G	Sat MTO O 1	Desind	-	-
1986-014	2446470.92	1986 Feb 9 1006	Atlas H	-	6004H	1.241	AFSD	OS	-	G	Sat LEO SA 1	JCM	-	-
1986-073	2446691.16	1986 Sep 17 1552	Atlas E	-	52E	1.712	AFSD	OS	-	G	Sat SSO A 2	POES-WWW	-	-
1986-096	2446769.60	1986 Dec 5 0230:01	Atlas G Centaur	-	AC-66	1.928	LERC	OS	-	G	Sat GTO O	patrick.af.mil	-	-
1987-F02	2446881.39	1987 Mar 26 2122:00	Atlas G Centaur	-	AC-67	1.872	LERC	OF	WX	G	Sat GTO O	patrick.af.mil	-	Lightning strike
1987-043	2446931.16	1987 May 15 1545	Atlas H	-	6005H	1.874	AFSD	OS	-	G	Sat LEO SA 1	Wire	-	-
1987-053	2446966.61	1987 Jun 20 0234	Atlas E	-	59E	1.493	AFSD	OS	-	G	Sat SSO A 2	Wire	-	-
1988-006	2447194.75	1988 Feb 3 0553	Atlas E	-	54E	1.493	AFSD	OS	-	G	Sat SSO A 2	LR880203	-	-
1988-089	2447428.92	1988 Sep 24 1002:00	Atlas E	-	63E	1.712	AFSD	OS	-	G	Sat SSO A 2	POES-WWW	-	-
1989-077	2447794.87	1989 Sep 25 0856:02	Atlas G Centaur	-	AC-68	1.928	LERC	OS	-	G	Sat GTO O	patrick.af.mil	AWST891002-23	-
1990-031	2447993.12	1990 Apr 11 1500	Atlas E Altair	-	28E	0.182	AFSD	OS	-	G	Sat LEO O	SN900416-45	-	-
1990-065	2448098.31	1990 Jul 25 1921	Atlas I	-	AC-69	1.716	GDCLS	OS	-	C/G	Sat GTO O	Wire	-	-
1990-105	2448227.16	1990 Dec 1 1557	Atlas E	-	61E	1.488	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1991-F01	2448365.48	1991 Apr 18 2330	Atlas I	-	AC-70	1.301	GDCLS	OF	S2I	C	Sat GTO O	SN910422-1	-	Turbopump icing
1991-032	2448391.16	1991 May 14 1552:03	Atlas E	-	50E	1.418	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1991-082	2448589.06	1991 Nov 28 1323	Atlas E	-	53E	1.462	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1991-083	2448598.45	1991 Dec 7 2247	Atlas II	-	AC-102	1.878	GDCLS	OS	-	C	Sat GTO O	Wire	-	-
1992-006	2448663.53	1992 Feb 11 0041:02	Atlas II	-	AC-101 MLV-1/IABS-1	1.418	GDCLS	OS	-	CG/G	Sat GTO O	patrick.af.mil	-	-
1992-013	2448695.50	1992 Mar 14 0000	Atlas I	-	AC-72	1.412	GDCLS	OS	-	C	Sat GTO O	Wire	-	-
1992-032	2448783.50	1992 Jun 10 0000	Atlas IIA	-	AC-105	2.900	GDCLS	OS	-	C	Sat GTO O	Wire	-	-
1992-037	2448806.41	1992 Jul 2 2154:01	Atlas II	-	AC-103 MLV-2/IABS-2	1.418	GDCLS	OS	-	CG/G	Sat GTO O	patrick.af.mil	AWST920706-17	-
1992-F02	2448857.44	1992 Aug 22 2240	Atlas I	-	AC-71	1.412	GDCLS	OF	S2I	C	Sat GTO O	AWST920831-22	-	Turbopump icing
1993-015	2449072.40	1993 Mar 25 2138:02	Atlas I	-	AC-74	2.840	GDCLS	OF50	S1U	CG/G	Sat GTO O	Wire	-	S2 worked after low S1 thrust
1993-046	2449188.42	1993 Jul 19 2204:02	Atlas II	-	AC-104 MLV-3/IABS-3	1.502	GDCLS	OS	-	CG/G	Sat GTO O	SN930726-9	-	-
1993-050	2449208.92	1993 Aug 9 1002	Atlas E	-	34E	1.732	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1993-056	2449233.97	1993 Sep 3 1117:02	Atlas I	-	AC-75	2.840	GDCLS	OS	-	CG/G	Sat GTO O	Wire	-	-
1993-074	2449320.49	1993 Nov 28 2340:02	Atlas II	-	AC-106 MLV-4/IABS-4	1.502	GDCLS	OS	-	CG/G	Sat GTO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-077	2449337.53	1993 Dec 16 0040:02	Atlas IIAS	-	AC-108	3.375	GDCLS	OS	-	C	Sat GTO O	Wire	-	-
1994-022	2449455.75	1994 Apr 13 0604:02	Atlas I	-	AC-73	2.105	GDCLS	OS	-	C/G	Sat GTO O	Wire	-	-
1994-035	2449528.08	1994 Jun 24 1350:02	Atlas I	-	AC-76	2.840	MMCLS	OS	-	CG/G	Sat GTO O	Wire	-	-
1994-047	2449568.50	1994 Aug 3 2357:02	Atlas IIA	-	AC-107	2.921	MMCLS	OS	-	C	Sat GTO O	Wire	-	-
1994-057	2449594.23	1994 Aug 29 1738	Atlas E	-	20E	1.480	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1994-064	2449631.77	1994 Oct 6 0635:02	Atlas IIAS	-	AC-111	3.695	MMCLS	OS	-	C	Sat GTO O	Wire	-	-
1994-079	2449685.93	1994 Nov 29 1021:02	Atlas IIA	-	AC-110	2.333	MMCLS	OS	-	C/G	Sat GTO O	Wire	-	-
1994-089	2449716.92	1994 Dec 30 1002	Atlas E	-	11E	1.712	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1995-001	2449727.76	1995 Jan 10 0618:02	Atlas IIAS	-	AC-113	3.695	MMCLS	OS	-	C/G	Sat GTO O	Wire	-	-
1995-003	2449746.56	1995 Jan 29 0125:01	Atlas II	-	AC-112	3.023	MMCLS	OS	-	CG/G	Sat GTO O	Wire	-	-
1995-013	2449798.76	1995 Mar 22 0618:01	Atlas IIAS	-	AC-115	3.695	LMA	OS	-	C/G	Sat GTO O	Wire	-	-
1995-015	2449801.09	1995 Mar 24 1405	Atlas E	-	45E	1.462	AFSPC	OS	-	G	Sat SSO A 2	Wire	-	-
1995-019	2449815.49	1995 Apr 7 2347:00	Atlas IIA	-	AC-114	2.995	LMA	OS	-	C	Sat GTO O	Wire	-	-
1995-025	2449860.74	1995 May 23 0552:02	Atlas I	-	AC-77	2.105	LMA	OS	-	C/G	Sat GTO O	Wire	-	-
1995-027	2449869.14	1995 May 31 1527:01	Atlas II	-	AC-116	3.024	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1995-038	2449930.48	1995 Jul 31 2330:02	Atlas IIA	-	AC-118 MLV-5/IABS-5	1.491	LMA	OS	-	CG/G	Sat GTO O	Rigg	-	-
1995-043	2449958.54	1995 Aug 29 0053:02	Atlas IIAS	-	AC-117	3.090	LMA	OS	-	C	Sat STO O	Wire	-	-
1995-057	2450012.83	1995 Oct 22 0800:02	Atlas II	-	AC-119	3.017	LMA	OS	-	CG/G	Sat GTO O	Rigg	-	-
1995-065	2450053.84	1995 Dec 2 0808:01	Atlas IIAS	-	AC-121	1.864	LMA	DS	-	C/OG	Sat EEO E	Wire	-	-
1995-069	2450066.52	1995 Dec 15 0023:01	Atlas IIA	-	AC-120	3.066	LMA	OS	-	C	Sat GTO O	Wire	-	-
1996-006	2450114.55	1996 Feb 1 0115:01	Atlas IIAS	-	AC-126	2.989	LMA	OS	-	C	Sat STO O	Wire	-	-
1996-020	2450177.46	1996 Apr 3 2301:01	Atlas IIA	-	AC-122	2.068	LMA	OS	-	C	Sat GTO O	Wire	-	-
1996-027	2450203.69	1996 Apr 30 0431:01	Atlas I	-	AC-78	1.383	LMA	OS	-	C/OG	Sat LEO O	Wire	-	-
1996-042	2450290.03	1996 Jul 25 1241:01	Atlas II	-	AC-125	3.019	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1996-054	2450335.41	1996 Sep 8 2149:01	Atlas IIA	-	AC-123	2.783	LMA	OS	-	C	Sat STO O	Wire	-	-
1996-067	2450409.37	1996 Nov 21 2047:01	Atlas IIA	-	AC-124	2.910	LMA	OS	-	C	Sat GTO O	Wire	-	-
1996-070	2450435.58	1996 Dec 18 0157:01	Atlas IIA	-	AC-129	2.071	LMA	OS	-	C	Sat GTO O	Wire	-	-
1997-007	2450496.57	1997 Feb 17 0142:02	Atlas IIAS	-	AC-127	3.090	LMA	OS	-	C	Sat STO O	Wire	-	-
1997-011	2450515.75	1997 Mar 8 0601:01	Atlas IIA	-	AC-128	3.558	LMA	OS	-	C	Sat GTO O	Wire	-	-
1997-019	2450563.74	1997 Apr 25 0549:01	Atlas I	-	AC-79	2.105	LMA	OS	-	C/G	Sat GTO O	Wire	-	-
1997-036	2450657.55	1997 Jul 28 0115:01	Atlas IIAS	-	AC-133	3.130	LMA	OS	-	C	Sat STO O	Wire	-	-
1997-050	2450696.00	1997 Sep 4 1203:00	Atlas IIAS	-	AC-146	2.845	LMA	OS	-	C	Sat GTO O	Wire	-	-
1997-059	2450727.38	1997 Oct 5 2101:01	Atlas IIAS	-	AC-135	3.670	LMA	OS	-	C	Sat GTO O	Wire	-	-
1997-065	2450746.53	1997 Oct 25 0046:00	Atlas IIA	-	AC-131 MLV-6/IABS-6	1.502	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1997-078	2450791.49	1997 Dec 8 2352:01	Atlas IIAS	-	AC-149	3.558	LMA	OS	-	C	Sat STO O	Wire	-	-
1998-005	2450843.28	1998 Jan 29 1837:00	Atlas IIA	-	AC-109 MLV-7	2.500	LMA	OS	-	CG/G	Sat MOL O	Wire	-	-
1998-014	2450872.51	1998 Feb 28 0021:01	Atlas IIAS	-	AC-151	3.455	LMA	OS	-	C/G	Sat GTO O	Wire	-	-
1998-016	2450889.40	1998 Mar 16 2132:00	Atlas II	-	AC-132	3.200	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1998-037	2450983.45	1998 Jun 18 2248:01	Atlas IIAS	-	AC-153	3.524	LMA	OS	-	C/G	Sat GTO O	Wire	-	-
1998-057	2451096.45	1998 Oct 9 2250:01	Atlas IIA	-	AC-134	3.000	LMA	OS	-	C	Sat GTO O	Wire	-	-
1998-058	2451106.80	1998 Oct 20 0719:02	Atlas IIA	-	AC-130	3.200	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1999-006	2451225.57	1999 Feb 16 0145:26	Atlas IIAS	-	AC-152	2.900	LMA	OS	-	C	Sat STO O	Wire	-	-
1999-018	2451281.45	1999 Apr 12 2250:01	Atlas IIAS	-	AC-154	3.177	LMA	OS	-	C	Sat STO O	Wire	-	-
1999-050	2451444.75	1999 Sep 23 0602:02	Atlas IIAS	-	AC-155	3.177	LMA	OS	-	C	Sat GTO O	Wire	-	-
1999-063	2451505.67	1999 Nov 23 0406:01	Atlas IIA	-	AC-136	3.205	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
1999-068	2451531.29	1999 Dec 18 1857:39	Atlas IIAS	-	AC-141	5.190	LMA	OS	-	C/G	Sat SSO L	Wire	-	-
2000-001	2451564.54	2000 Jan 21 0103:01	Atlas IIA	-	AC-138 MLV-8/IABS-9	2.720	LMA	OS	-	CG/G	Sat GTO O	Wire	-	-
2000-007	2451578.48	2000 Feb 3 2330:01	Atlas IIAS	-	AC-158	3.112	LMA	OS	-	C	Sat GTO O	Wire	-	-
2000-022	2451667.80	2000 May 3 0707:03	Atlas IIA	-	AC-137	2.105	ILSL	OS	-	C/G	Sat GTO O	Wire	-	-
2000-028	2451689.47	2000 May 24 2310:05	Atlas 3A	-	AC-201	3.190	ILSL	OS	-	C	Sat STO O	Wire	-	-
2000-034	2451726.04	2000 Jun 30 1256:01	Atlas IIA	-	AC-139	3.180	ILSL	OS	-	C/G	Sat GTO O	Wire	-	-
2000-038	2451739.72	2000 Jul 14 0521:01	Atlas IIAS	-	AC-161	3.700	ILSL	OS	-	C	Sat GTO O	Wire	-	-
2000-065	2451837.53	2000 Oct 20 0040:02	Atlas IIA	-	AC-140 MLV-9/IABS-8	1.232	ILSL	OS	-	CG/G	Sat GTO O	Wire	-	-
2000-080	2451884.62	2000 Dec 6 0247:01	Atlas IIAS	-	AC-157 MLV-11	3.500	ILSL	OS	-	CG/G	Sat GTO O	Wire	-	-
2001-026	2452079.70	2001 Jun 19 0441:02	Atlas IIAS	-	AC-156	2.700	ILSL	OS	-	C	Sat MEO O	Wire	-	-
2001-031	2452113.81	2001 Jul 23 0723:01	Atlas IIA	-	AC-142	2.279	ILSL	OS	-	C/G	Sat GTO O	Wire	-	-
2001-040	2452161.14	2001 Sep 8 1525:05	Atlas IIAS	-	AC-160 MLV-10	2.000	ILSL	OS	-	CG/G	Sat LEO O	Wire	-	-
2001-046	2452193.61	2001 Oct 11 0232:00	Atlas IIAS	-	AC-162 MLV-12	3.500	ILSL	OS	-	CG/G	Sat GTO O	Wire	-	-
2002-006	2452327.03	2002 Feb 21 1243:01	Atlas 3B	DEC	AC-204	4.026	ILSL	OS	-	C	Sat STO O	Wire	-	-
2002-011	2452342.46	2002 Mar 8 2259:01	Atlas IIA	-	AC-143	3.190	ILSL	OS	-	C/G	Sat GTO O	Wire	-	-
2002-044	2452536.42	2002 Sep 18 2204:01	Atlas IIAS	-	AC-159	3.250	ILSL	OS	-	C	Sat STO O	Wire	-	-
2002-055	2452613.61	2002 Dec 5 0242:01	Atlas IIA	-	AC-144	3.189	ILSL	OS	-	C/G	Sat GTO O	Wire	-	-
2003-014	2452741.53	2003 Apr 12 0047:01	Atlas 3B	SEC	AC-205	4.137	ILSL	OS	-	C	Sat STO O	Wire	-	-
2003-054	2452975.92	2003 Dec 2 1004	Atlas IIAS	-	AC-164 MLV-14	2.000	ILSL	OS	-	CG/G	Sat LEO O	Wire	-	-
2003-057	2452991.60	2003 Dec 18 0230	Atlas 3B	SEC	AC-203	3.205	ILSL	OS	-	CG/G	Sat GTO O	Wire	-	-
2004-003	2453041.49	2004 Feb 5 2346:02	Atlas IIAS	-	AC-165	2.315	ILSL	OS	-	C	Sat GTO O	Wire	-	-
2004-007	2453077.74	2004 Mar 13 0540:01	Atlas 3A	-	AC-202	4.143	ILSL	OS	-	C	Sat GTO O	Wire	-	-
2004-011	2453111.53	2004 Apr 16 0045:00	Atlas IIAS	-	AC-163	3.100	ILSL	OS	-	C	Sat STO O	Wire	-	-
2004-017	2453145.43	2004 May 19 2222:01	Atlas IIAS	-	AC-166	2.315	ILSL	OS	-	C	Sat GTO O	Wire	-	-
2004-034	2453249.47	2004 Aug 31 2317:00	Atlas IIAS	-	AC-167	3.500	ILSL	OS	-	CG/G	Sat MOL O	Wire	-	-
2005-004	2453404.82	2005 Feb 3 0741:01	Atlas 3B	SEC	AC-206 MLV-15	2.000	ILSL	OS	-	CG/G	Sat LEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2002-038	2452508.42	2002 Aug 21 2205:00	Atlas V 401	-	AV-001	Hot Bird 6	Eutelsat HB6	-	-	CC	SLC41	-	-	45785	-	-
2003-020	2452773.42	2003 May 13 2210:00	Atlas V 401	-	AV-002	Hellas Sat 2	Hellas Sat 2	-	-	CC	SLC41	-	-	84738	-	-
2003-033	2452838.49	2003 Jul 17 2345:01	Atlas V 521	-	AV-003	Rainbow 1	Rainbow 1	-	-	CC	SLC41	-	-	36225	-	-
2004-048	2453357.00	2004 Dec 17 1207:00	Atlas V 521	-	AV-005	AMC 16	AMC 16	-	-	CC	SLC41	-	-	36138	-	-
2005-009	2453441.40	2005 Mar 11 2142:00	Atlas V 431	-	AV-004	Inmarsat 4 F-1	INMARSAT 4 F1	-	-	CC	SLC41	-	-	90139	-	-
2005-029	2453594.99	2005 Aug 12 1143:00	Atlas V 401	-	AV-007	MRO	MRO	-	-	CC	SLC41	-	-	150000	-	-
2006-001	2453755.29	2006 Jan 19 1900:00	Atlas V 551	-	AV-010	New Horizons/Star 48	New Horizons	-	-	CC	SLC41	-	-	150000	-	-
2006-012	2453846.35	2006 Apr 20 2027:00	Atlas V 411	-	AV-008	Astra 1KR	Astra 1KR	-	-	CC	SLC41	-	-	36240	-	-
2007-006	2454168.63	2007 Mar 9 0310:00	Atlas V 401	-	AV-013	STP-1	Orbital Express	-	-	CC	SLC41	-	-	565	-	-
2007-027	2454267.13	2007 Jun 15 1512:00	Atlas V 401	-	AV-009	USA 194 [NOSS17]	INTRUDER 8?	NROL-30 PYXIS	-	CC	SLC41	-	-	1376	-	-
2007-046	2454384.52	2007 Oct 11 0022	Atlas V 421	-	AV-011	USA 195 (WGS SV-1)	Wideband Global Satcom 1	-	-	CC	SLC41	-	-	66847	-	-
2007-060	2454445.42	2007 Dec 10 2205:00	Atlas V 401	-	AV-015	USA 198 [SDS16]	QUASAR 15?	NROL-24 SCORPIUS	-	CC	SLC41	-	-	39894	-	-
2008-010	2454538.92	2008 Mar 13 1002	Atlas V 411	-	AV-006	USA 200 [JS12]	Adv TRUMPET 2	NROL-28	-	VS	SLC3E	-	-	39372	-	-
2008-016	2454571.34	2008 Apr 14 2012:00	Atlas V 421	-	AV-014	ICO G1	ICO G1	-	-	CC	SLC41	-	-	36061	-	-
2009-017	2454925.52	2009 Apr 4 0031:00	Atlas V 421	-	AV-016	USA (WGS SV-2)	Wideband Global Satcom 2	-	-	CC	SLC41	-	-	64309	-	-
2009-031	2455001.40	2009 Jun 18 2132:00	Atlas V 401	-	AV-020	LRO/LCROSS	LRO	-	-	CC	SLC41	-	-	150000	-	-
2009-047	2455083.40	2009 Sep 8 2135:00	Atlas V 401	-	AV-018	PAN	NEMESIS 1	-	-	CC	SLC41	-	-	35957	-	-
2009-057	2455123.18	2009 Oct 18 1612:01	Atlas V 401	-	AV-017	DMSP 5D-3 F18	DMSP Block 5D-3 S-18	-	-	VS	SLC3E	-	-	150000	-	-
2009-064	2455158.79	2009 Nov 23 0655:00	Atlas V 431	-	AV-024	Intelsat IS-14	IS-14	-	-	CC	SLC41	-	-	39141	-	-
2010-005	2455239.14	2010 Feb 11 1523:00	Atlas V 401	-	AV-021	SDO	SDO	-	-	CC	SLC41	-	-	36156	-	-
2010-015	2455309.49	2010 Apr 22 2352:00	Atlas V 501	-	AV-012	X-37B OTV FLT-1	X-37B No. 1	-	-	CC	SLC41	-	-	150000	-	-
2010-039	2455422.96	2010 Aug 14 1107:00?	Atlas V 531	-	AV-019	AEHF 1	AEHF SV-1	-	-	CC	SLC41	-	-	51723	-	-
2010-046	2455460.67	2010 Sep 21 0403:30	Atlas V 501	-	AV-025	USA 215 (FIAR-1)	TOPAZ 1	NROL-41 GLADYS	-	VS	SLC3E	-	-	1110	-	-
2011-010	2455626.45	2011 Mar 5 2246	Atlas V 501	-	AV-026	X-37B OTV FLT-2	X-37B No. 2	-	-	CC	SLC41	-	-	345	-	-
2011-014	2455666.68	2011 Apr 15 0424:10	Atlas V 411	-	AV-027	USA 229	INTRUDER 9	NROL-34 FRIGGA	-	VS	SLC3E	-	-	1284	-	-
2011-019	2455689.26	2011 May 7 1810	Atlas V 401	-	AV-022?	SBIRS GEO-1	SBIRS GEO-1	-	-	CC	SLC41	-	-	35901	-	-
2011-040	2455779.18	2011 Aug 5 1625:00	Atlas V 551	-	AV-029	Juno	Juno	-	-	CC	SLC41	-	-	150000	-	-
2011-070	2455892.13	2011 Nov 26 1502:00	Atlas V 541	-	AV-028	MSL	Mars Science Lab Rover	-	-	CC	SLC41	-	-	150000	-	-
2012-009	2455982.43	2012 Feb 24 2215:00	Atlas V 551	-	AV-030	MUOS 1	MUOS 1	-	-	CC	SLC41	-	-	36144	-	-
2012-019	2456052.28	2012 May 4 1842	Atlas V 531	-	AV-031	AEHF 2	AEHF SV-2	-	-	CC	SLC41	-	-	50406	-	-
2012-033	2456099.02	2012 Jun 20 1228	Atlas V 401	-	AV-023	USA 236	QUASAR 17?	NROL-38 DRAKE	-	CC	SLC41	-	-	35894	-	-
2012-046	2456169.84	2012 Aug 30 0805:27	Atlas V 401	-	AV-032	RBSP A/B	RBSP-A	-	-	CC	SLC41	-	-	36068	-	-
2012-048	2456184.40	2012 Sep 13 2139:00	Atlas V 401	-	AV-033	USA 238/OUTSAT	INTRUDER 10	NROL-36 ROSIE	-	VS	SLC3E	-	-	1251	-	-
2012-071	2456273.25	2012 Dec 11 1803:00	Atlas V 501	-	AV-034	X-37B OTV FLT-3	X-37B No. 1	-	-	CC	SLC41	-	-	415	-	-
2013-004	2456323.58	2013 Jan 31 0148:00	Atlas V 401	-	AV-036	TDRS 11	TDRS K	-	-	CC	SLC41	-	-	35958	-	-
2013-008	2456335.25	2013 Feb 11 1802:00	Atlas V 401	-	AV-035	Landsat 8	Landsat LDCM	-	-	VS	SLC3E	-	-	150000	-	-
2013-011	2456371.39	2013 Mar 19 2121:00	Atlas V 401	-	AV-037	SBIRS GEO-2	SBIRS GEO-2	-	-	CC	SLC41	-	-	35916	-	-
2013-023	2456428.40	2013 May 15 2138:00	Atlas V 401	-	AV-039	GPS II F-4	GPS SVN 66	-	-	CC	SLC41	-	-	22342	-	-
2013-036	2456493.04	2013 Jul 19 1300:00	Atlas V 551	-	AV-040	MUOS 2	MUOS 2	-	-	CC	SLC41	-	-	36234	-	-
2013-050	2456553.84	2013 Sep 18 0810:00	Atlas V 531	-	AV-041	AEHF 3	AEHF 3	-	-	CC	SLC41	-	-	48321	-	-
2013-063	2456615.27	2013 Nov 18 1828:00	Atlas V 401	-	AV-038	MAVEN	MAVEN	-	-	CC	SLC41	-	-	150000	-	-
2013-072	2456632.80	2013 Dec 6 0714:30	Atlas V 501	-	AV-042	USA 247	TOPAZ 3	NROL-39 BELLE	-	VS	SLC3E	-	-	1113	-	-
2014-004	2456681.61	2014 Jan 24 0233:00	Atlas V 401	-	AV-043	TDRS 12	TDRS L	-	-	CC	SLC41	-	-	36522	-	-
2014-015	2456751.12	2014 Apr 3 1446:30	Atlas V 401	-	AV-044	DMSP 5D-13 F19	DMSP 5D-13 F19	-	-	VS	SLC3E	-	-	150000	-	-
2014-020	2456758.24	2014 Apr 10 1745	Atlas V 541	-	AV-045	USA 250	ORION 9?	NROL-67	-	CC	SLC41	-	-	36006	-	-
2014-027	2456800.05	2014 May 22 1309	Atlas V 401	-	AV-046	USA 252	QUASAR 18?	NROL-33 VALKYRIE	-	CC	SLC41	-	-	36359	-	-
2014-045	2456871.64	2014 Aug 2 0323	Atlas V 401	-	AV-048	GPS II F-7	GPS SVN 68	-	-	CC	SLC41	-	-	43611	-	-
2014-048	2456883.27	2014 Aug 13 1830:30	Atlas V 401	-	AV-047	Worldview-3	Worldview-3	-	-	VS	SLC3E	-	-	150000	-	-
2014-055	2456917.51	2014 Sep 17 0010	Atlas V 401	-	AV-049	CLIO	CLIO	-	-	CC	SLC41	-	-	35872	-	-
2014-068	2456960.22	2014 Oct 29 1721:00	Atlas V 401	-	AV-050	GPS II F-8	GPS SVN 69	-	-	CC	SLC41	-	-	21471	-	-
2014-081	2457004.64	2014 Dec 13 0319:29	Atlas V 541	C	AV-051	USA 259	Adv TRUMPET 3?	NROL-35 JAQUELYN	-	VS	SLC3E	-	-	39378	-	-
2015-002	2457043.54	2015 Jan 21 0104:00	Atlas V 551	C	AV-052	MUOS 3	MUOS 3	-	-	CC	SLC41	-	-	36128	-	-
2015-011	2457094.61	2015 Mar 13 0244	Atlas V 421	-	AV-053	MMS	MMS 1-4	-	-	CC	SLC41	-	-	150000	-	-
2015-025	2457163.13	2015 May 20 1505	Atlas V 501	C	AV-054	X-37B OTV FLT-4	X-37B No. 2?	AFSPC-5	-	CC	SLC41	-	-	701	-	-
2015-033	2457219.15	2015 Jul 15 1536:00	Atlas V 401	C	AV-055	GPS II F-10	GPS SVN 72	-	-	CC	SLC41	-	-	21724	-	-
2015-044	2457267.93	2015 Sep 2 1018:00	Atlas V 551	C	AV-056	MUOS 4	MUOS 4	-	-	CC	SLC41	-	-	36146	-	-
2015-056	2457297.94	2015 Oct 2 1028:30	Atlas V 421	C	AV-059	Morelos 3	Morelos 3	-	-	CC	SLC41	-	-	35816	-	-
2015-058	2457304.03	2015 Oct 8 1249	Atlas V 401	C	AV-058	NROL-55	INTRUDER	NROL-55 AURYON	-	VS	SLC3E	-	-	1205	-	-
2015-062	2457327.18	2015 Oct 31 1613	Atlas V 401	C	AV-060	GPS II F-11	GPS SVN 73	-	-	CC	SLC41	-	-	21734	-	-
2015-072	2457363.41	2015 Dec 6 2144:57	Atlas V 401	C	AV-061	S.S. Deke Slayton II	Cygnus OA-4	-	-	CC	SLC41	-	-	418	-	-
2016-007	2457424.07	2016 Feb 5 1338:00	Atlas V 401	C	AV-057	GPS II F-12	GPS SVN 70	-	-	CC	SLC41	-	-	21475	-	-
2016-019	2457470.63	2016 Mar 23 0305:52	Atlas V 401	C	AV-064	S.S. Rick Husband	Cygnus OA-6	-	-	CC	SLC41	-	-	769	-	-
2016-041	2457564.10	2016 Jun 24 1430:00	Atlas V 551	C	AV-063	MUOS 5	MUOS 5	-	-	CC	SLC41	-	-	36788	-	-
2016-047	2457598.03	2016 Jul 28 1237	Atlas V 421	C	AV-065	USA 269	QUASAR 19?	NROL-61	-	CC	SLC41	-	-	35996	-	-
2016-055	2457640.46	2016 Sep 8 2305	Atlas V 411	-	AV-067	OSIRIS-REx	OSIRIS-REx	-	-	CC	SLC41	-	-	150000	-	-
2016-067	2457704.27	2016 Nov 11 1830:33	Atlas V 401	C	AV-062	WorldView-4	WorldView-4	-	-	VS	SLC3E	-	-	150000	-	-
2016-071	2457712.49	2016 Nov 19 2342:00	Atlas V 541	C	AV-069	GOES R	GOES R	-	-	CC	SLC41	-	-	35798	-	-
2016-079	2457741.30	2016 Dec 18 1913	Atlas V 431	C	AV-071	Echostar 19	Echostar 19 (Jupiter 2)	-	-	CC	SLC41	-	-	65264	-	-
2017-004	2457774.53	2017 Jan 21 0042	Atlas V 401	C	AV-066	SBIRS GEO-3	SBIRS GEO-3	-	-	CC	SLC41	-	-	35956	-	-
2017-011	2457814.24	2017 Mar 1 1749:51	Atlas V 401	C	AV-068	USA 274	INTRUDER	NROL-79	-	VS	SLC3E	-	-	1204	-	-
2017-019	2457862.13	2017 Apr 18 1511:26	Atlas V 401	C	AV-070	S.S. John Glenn	Cygnus OA-7	-	-	CC	SLC41	-	-	491	-	-
2017-047	2457984.02	2017 Aug 18 1229	Atlas V 401	C	AV-074	TDRS 13	TDRS M	-	-	CC	SLC41	-	-	35914	-	-
2017-056	2458020.74	2017 Sep 24 0549:47	Atlas V 541	C	AV-072	USA 278	Adv TRUMPET 4?	NROL-42	-	VS	SLC3E	-	-	39266	-	-
2017-066	2458041.81	2017 Oct 15 0728	Atlas V 421	C	AV-075	USA 279	QUASAR 20?	NROL-52	-	CC	SLC41	-	-	35916	-	-
2018-009	2458138.53	2018 Jan 20 0048:00	Atlas V 411	C	AV-076	SBIRS GEO-4	SBIRS GEO-4	-	-	CC	SLC41	-	-	35882	-	-
2018-022	2458179.42	2018 Mar 1 2202:00	Atlas V 541	C	AV-077	GOES S	GOES S	-	-	CC	SLC41	-	-	35992	-	-
2018-036	2458223.47	2018 Apr 14 2313:00	Atlas V 551	C	AV-079	CBAS/EAGLE	CBAS/EAGLE	AFSPC-11	-	CC	SLC41	-	-	36457	-	-
2018-042	2458243.96	2018 May 5 1105:01	Atlas V 401	C	AV-078	Mars Insight	Mars Insight	-	-	VS	SLC3E	-	-	150000	-	-
2018-079	2458408.68	2018 Oct 17 0415	Atlas V 551	C	AV-073	AEHF-4	AEHF 4	-	-	CC	SLC41	-	-	37892	-	-
2019-051	2458703.93	2019 Aug 8 1013	Atlas V 551	C	AV-083	AEHF-5	AEHF 5	-	-	CC	SLC41	-	-	36708	-	-
2019-094	2458837.98	2019 Dec 20 1136:43	Atlas V N22	-	AV-080	Starliner OFT	Starliner SC3	-	-	CC	SLC41	-	-	265	-	-
2020-010	2458889.67	2020 Feb 10 0403	Atlas V 411	-	AV-087	Solar Orbiter	Solar Orbiter	-	-	CC	SLC41	-	-	150000	-	-
2020-022	2458935.35	2020 Mar 26 2018:00	Atlas V 551	C	AV-086	AEHF 6	AEHF 6	-	-	CC	SLC41	-	-	36610	-	-
2020-029	2458987.05	2020 May 17 1314:00	Atlas V 501	C	AV-081	X-37B OTV FLT-6	X-37B No. 1?	USSF-7	-	CC	SLC41	-	-	446	-	-
2020-052	2459060.99	2020 Jul 30 1150:00	Atlas V 541	C	AV-088	Mars 2020	Perseverance	-	-	CC	SLC41	-	-	150000	-	-
2020-083	2459167.44	2020 Nov 13 2232:00	Atlas V 531	G	AV-090	USA 310	TOPAZ?	NROL-101	-	CC	SLC41	-	-	11100	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-042	2459353.23	2021 May 18 1737	Atlas V 421	C1	AV-091	SBIRS GEO-5	SBIRS GEO-5	-	-	CC	SLC41	-	-	35825	-	-
2021-088	2459485.26	2021 Sep 27 1812:00	Atlas V 401	C	AV-092	Landsat 9	Landsat 9	-	-	VSFBS	SLC3E	-	-	703	-	-
2021-093	2459503.90	2021 Oct 16 0934:00	Atlas V 401	C	AV-096	Lucy	Lucy	-	-	CC	SLC41	-	-	150000	-	-
2021-118	2459555.93	2021 Dec 7 1019	Atlas V 551	G	AV-093	STP-3	STPSAT-6/LDPE-1	-	-	CC	SLC41	-	-	38654	-	-
2022-006	2459601.29	2022 Jan 21 1900:00	Atlas V 511	G	AV-084	GSSAP 5/6	GSSAP 5/6	USSF-8	-	CC	SLC41	-	-	38470	-	-
2022-021	2459640.40	2022 Mar 1 2138:00	Atlas V 541	G	AV-095	GOES T	GOES T	-	-	CC	SLC41	-	-	35982	-	-
2022-055	2459719.45	2022 May 19 2254:47	Atlas V N22	-	AV-082	Starliner OFT-2	Starliner SC2	-	-	CC	SLC41	-	-	422	-	-
2022-073	2459762.47	2022 Jul 1 2315:00	Atlas V 541	G	AV-094	USSF-12	WFOV	USSF-12	-	CC	SLC41	-	-	40060	-	-
2022-092	2459795.94	2022 Aug 4 1029:00	Atlas V 421	G1	AV-097	SBIRS GEO-6	SBIRS GEO-6	-	-	CC	SLC41	-	-	35799	-	-
2022-123	2459857.40	2022 Oct 4 2136:00	Atlas V 531	G1	AV-099	SES-20/SES-21	SES-20/SES-21	-	-	CC	SLC41	-	-	-	-	-
2022-150	2459893.91	2022 Nov 10 0949:00	Atlas V 401	C	AV-098	JPSS-2/LOFTID	JPSS-2/LOFTID	-	-	VSFBS	SLC3E	-	-	-	-	-
2023-140	2460198.03	2023 Sep 10 1247:00	Atlas V 551	G	AV-102	SILENT BARKER	SILENT BARKER	NROL-107	-	CC	SLC41	-	-	-	-	-
2023-154	2460224.25	2023 Oct 6 1806:00	Atlas V 501	-	AV-104	Kuiper Protoflight	KuiperSat-1/2	-	-	CC	SLC41	-	-	-	-	-
2024-109	2460467.12	2024 Jun 5 1452:15	Atlas V N22	-	AV-085	Starliner CFT	Starliner SC3	-	-	CC	SLC41	-	-	-	-	-
2024-134	2460521.95	2024 Jul 30 1045	Atlas V 551	G	AV-101	USSF-51	USSF-51	-	-	CC	SLC41	-	-	-	-	-
2025-088	2460794.46	2025 Apr 28 2301	Atlas V 551	G	AV-107	Kuiper KA-01	KA-01	-	-	CC	SLC41	-	-	-	-	-
2025-134	2460849.95	2025 Jun 23 1054:30	Atlas V 551	G	AV-105	Kuiper KA-02	KA-02	-	-	CC	SLC41	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2002-038	2452508.42	2002 Aug 21 2205:00	Atlas V 401	-	AV-001	3.905	ILSL	OS	-	C	Sat GTO 0	Wire	-	-
2003-020	2452773.42	2003 May 13 2210:00	Atlas V 401	-	AV-002	3.250	ILSL	OS	-	C	Sat STO 0	Wire	-	-
2003-033	2452838.49	2003 Jul 17 2345:01	Atlas V 521	-	AV-003	4.328	ILSL	OS	-	C	Sat GTO 0	Wire	-	-
2004-048	2453357.00	2004 Dec 17 1207:00	Atlas V 521	-	AV-005	4.065	ILSL	OS	-	C	Sat GTO 0	Wire	-	-
2005-009	2453441.40	2005 Mar 11 2142:00	Atlas V 431	-	AV-004	5.940	ILSL	OS	-	C	Sat STO 0	Wire	-	-
2005-029	2453594.99	2005 Aug 12 1143:00	Atlas V 401	-	AV-007	2.180	ILSL	DS	-	CG/G	Sat EEO E	Wire	-	-
2006-001	2453755.29	2006 Jan 19 1900:00	Atlas V 551	-	AV-010	2.619	ILSL	DS	-	CG/G	Sat EEO E	Wire	-	-
2006-012	2453846.35	2006 Apr 20 2027:00	Atlas V 411	-	AV-008	4.332	ILSL	OS	-	C	Sat GTO 0	Wire	-	-
2007-006	2454168.63	2007 Mar 9 0310:00	Atlas V 401	-	AV-013	2.245	ULAL	OS	-	CG/G	Sat LEO 0	Wire	-	-
2007-027	2454267.13	2007 Jun 15 1512:00	Atlas V 401	-	AV-009	2.000	ULAL	OS75	S2P2	CG/G	Sat LEO 0	Wire	-	Leaky valve, short 2nd burn
2007-046	2454384.52	2007 Oct 11 0022	Atlas V 421	-	AV-011	5.768	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2007-060	2454445.42	2007 Dec 10 2205:00	Atlas V 401	-	AV-015	3.000	ULAL	OS	-	CG/G	Sat MOL 0	Wire	-	-
2008-010	2454538.92	2008 Mar 13 1002	Atlas V 411	-	AV-006	4.000	ULAL	OS	-	CG/G	Sat MOL 0	Wire	-	-
2008-016	2454571.34	2008 Apr 14 2012:00	Atlas V 421	-	AV-014	6.600	ULAL	OS	-	C	Sat GTO 0	Wire	-	-
2009-017	2454925.52	2009 Apr 4 0031:00	Atlas V 421	-	AV-016	5.768	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2009-031	2455001.40	2009 Jun 18 2132:00	Atlas V 401	-	AV-020	2.807	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2009-047	2455083.40	2009 Sep 8 2135:00	Atlas V 401	-	AV-018	3.000	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2009-057	2455123.18	2009 Oct 18 1612:01	Atlas V 401	-	AV-017	1.223	ULAL	DS	-	CG/G	Sat SSO E	Wire	-	-
2009-064	2455158.79	2009 Nov 23 0655:00	Atlas V 431	-	AV-024	5.663	ULAL	OS	-	C	Sat GTO 0	Wire	-	-
2010-005	2455239.14	2010 Feb 11 1523:00	Atlas V 401	-	AV-021	3.100	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2010-015	2455309.49	2010 Apr 22 2352:00	Atlas V 501	-	AV-012	5.000	ULAL	DS	-	CG/G	Sat LEO E	Wire	-	-
2010-039	2455422.96	2010 Aug 14 1107:00?	Atlas V 531	-	AV-019	6.200	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2010-046	2455460.67	2010 Sep 21 0403:30	Atlas V 501	-	AV-025	7.000	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2011-010	2455626.45	2011 Mar 5 2246	Atlas V 501	-	AV-026	5.000	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2011-014	2455666.68	2011 Apr 15 0424:10	Atlas V 411	-	AV-027	2.000	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2011-019	2455689.26	2011 May 7 1810	Atlas V 401	-	AV-022?	4.500	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2011-040	2455779.18	2011 Aug 5 1625:00	Atlas V 551	-	AV-029	3.625	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2011-070	2455892.13	2011 Nov 26 1502:00	Atlas V 541	-	AV-028	3.839	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2012-009	2455982.43	2012 Feb 24 2215:00	Atlas V 551	-	AV-030	6.740	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2012-019	2456052.28	2012 May 4 1842	Atlas V 531	-	AV-031	6.200	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2012-033	2456099.02	2012 Jun 20 1228	Atlas V 401	-	AV-023	4.300	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2012-046	2456169.84	2012 Aug 30 0805:27	Atlas V 401	-	AV-032	1.315	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2012-048	2456184.40	2012 Sep 13 2139:00	Atlas V 401	-	AV-033	2.078	ULAL	OS	-	CG/G	Sat LEO L	Wire	-	-
2012-071	2456273.25	2012 Dec 11 1803:00	Atlas V 501	-	AV-034	5.000	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2013-004	2456323.58	2013 Jan 31 0148:00	Atlas V 401	-	AV-036	3.454	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2013-008	2456335.25	2013 Feb 11 1802:00	Atlas V 401	-	AV-035	2.782	ULAL	DS	-	CG/G	Sat SSO E	Wire	-	-
2013-011	2456371.39	2013 Mar 19 2121:00	Atlas V 401	-	AV-037	4.500	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2013-023	2456428.40	2013 May 15 2138:00	Atlas V 401	-	AV-039	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2013-036	2456493.04	2013 Jul 19 1300:00	Atlas V 551	-	AV-040	6.740	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2013-050	2456553.84	2013 Sep 18 0810:00	Atlas V 531	-	AV-041	6.200	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2013-063	2456615.27	2013 Nov 18 1828:00	Atlas V 401	-	AV-038	2.454	ULAL	OS	-	CG/G	Sat EEO E	Wire	-	-
2013-072	2456632.80	2013 Dec 6 0714:30	Atlas V 501	-	AV-042	7.076	ULAL	OS	-	CG/G	Sat LEO L	Wire	-	-
2014-004	2456681.61	2014 Jan 24 0233:00	Atlas V 401	-	AV-043	3.454	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2014-015	2456751.12	2014 Apr 3 1446:30	Atlas V 401	-	AV-044	1.223	ULAL	DS	-	CG/G	Sat SSO E	Wire	-	-
2014-020	2456758.24	2014 Apr 10 1745	Atlas V 541	-	AV-045	3.850	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2014-027	2456800.05	2014 May 22 1309	Atlas V 401	-	AV-046	4.300	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2014-045	2456871.64	2014 Aug 2 0323	Atlas V 401	-	AV-048	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2014-048	2456883.27	2014 Aug 13 1830:30	Atlas V 401	-	AV-047	2.615	ULAL	DS	-	C	Sat SSO E	Wire	-	-
2014-055	2456917.51	2014 Sep 17 0010	Atlas V 401	-	AV-049	3.400	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2014-068	2456960.22	2014 Oct 29 1721:00	Atlas V 401	-	AV-050	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2014-081	2457004.64	2014 Dec 13 0319:29	Atlas V 541	C	AV-051	4.000	ULAL	OS	-	CG/G	Sat MOL D	Wire	-	-
2015-002	2457043.54	2015 Jan 21 0104:00	Atlas V 551	C	AV-052	6.800	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2015-011	2457094.61	2015 Mar 13 0244	Atlas V 421	-	AV-053	5.440	ULAL	OS	-	CG/G	Sat STO 0	Wire	-	-
2015-025	2457163.13	2015 May 20 1505	Atlas V 501	C	AV-054	7.097	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2015-033	2457219.15	2015 Jul 15 1536:00	Atlas V 401	C	AV-055	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2015-044	2457267.93	2015 Sep 2 1018:00	Atlas V 551	C	AV-056	6.800	ULAL	OS	-	CG/G	Sat GTO 0 1	Wire	-	-
2015-056	2457297.94	2015 Oct 2 1028:30	Atlas V 421	C	AV-059	5.400	ULAL	OS	-	C	Sat GTO 0	Wire	-	-
2015-058	2457304.03	2015 Oct 8 1249	Atlas V 401	C	AV-058	4.097	ULAL	OS	-	CG/G	Sat LEO L	Wire	-	-
2015-062	2457327.18	2015 Oct 31 1613	Atlas V 401	C	AV-060	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2015-072	2457363.41	2015 Dec 6 2144:57	Atlas V 401	C	AV-061	11.270	ULAL	OS	-	CG/G	Sat ISS D	Wire	-	-
2016-007	2457424.07	2016 Feb 5 1338:00	Atlas V 401	C	AV-057	1.630	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-
2016-019	2457470.63	2016 Mar 23 0305:52	Atlas V 401	C	AV-064	11.253	ULAL	OS	-	CX/C	Sat ISS D	Wire	-	-
2016-041	2457564.10	2016 Jun 24 1430:00	Atlas V 551	C	AV-063	6.800	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2016-047	2457598.03	2016 Jul 28 1237	Atlas V 421	C	AV-065	5.600	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2016-055	2457640.46	2016 Sep 8 2305	Atlas V 411	-	AV-067	2.157	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2016-067	2457704.27	2016 Nov 11 1830:33	Atlas V 401	C	AV-062	2.105	ULAL	DS	-	C	Sat SSO E	Wire	-	-
2016-071	2457712.49	2016 Nov 19 2342:00	Atlas V 541	C	AV-069	5.192	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2016-079	2457741.30	2016 Dec 18 1913	Atlas V 431	C	AV-071	6.675	ULAL	OS	-	C	Sat STO 0	Wire	-	-
2017-004	2457774.53	2017 Jan 21 0042	Atlas V 401	C	AV-066	4.500	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2017-011	2457814.24	2017 Mar 1 1749:51	Atlas V 401	C	AV-068	2.000	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2017-019	2457862.13	2017 Apr 18 1511:26	Atlas V 401	C	AV-070	7.658	ULAL	OS	-	CX/C	Sat ISS D	Wire	-	-
2017-047	2457984.02	2017 Aug 18 1229	Atlas V 401	C	AV-074	3.454	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2017-056	2458020.74	2017 Sep 24 0549:47	Atlas V 541	C	AV-072	4.000	ULAL	OS	-	CG/G	Sat MOL D	Wire	-	-
2017-066	2458041.81	2017 Oct 15 0728	Atlas V 421	C	AV-075	5.600	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2018-009	2458138.53	2018 Jan 20 0048:00	Atlas V 411	C	AV-076	4.500	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2018-022	2458179.42	2018 Mar 1 2202:00	Atlas V 541	C	AV-077	5.192	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2018-036	2458223.47	2018 Apr 14 2313:00	Atlas V 551	C	AV-079	4.000	ULAL	OS	-	CG/G	Sat GEO 0 1	Wire	-	-
2018-042	2458243.96	2018 May 5 1105:01	Atlas V 401	C	AV-078	0.910	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2018-079	2458408.68	2018 Oct 17 0415	Atlas V 551	C	AV-073	6.200	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2019-051	2458703.93	2019 Aug 8 1013	Atlas V 551	C	AV-083	6.220	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2019-094	2458837.98	2019 Dec 20 1136:43	Atlas V N22	-	AV-080	12.000	ULAL	OS	-	CG/C	Sat ISS D	Wire	-	-
2020-010	2458889.67	2020 Feb 10 0403	Atlas V 411	-	AV-087	1.800	ULAL	DS	-	CG/OG	Sat EEO E	Wire	-	-
2020-022	2458935.35	2020 Mar 26 2018:00	Atlas V 551	C	AV-086	6.220	ULAL	OS	-	CG/G	Sat GTO 0	Wire	-	-
2020-029	2458987.05	2020 May 17 1314:00	Atlas V 501	C	AV-081	6.780	ULAL	OS	-	CG/G	Sat LEO D	Wire	-	-
2020-052	2459060.99	2020 Jul 30 1150:00	Atlas V 541	C	AV-088	3.965	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2020-083	2459167.44	2020 Nov 13 2232:00	Atlas V 531	G	AV-090	7.000	ULAL	OS	-	CG/G	Sat MEO 0	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-042	2459353.23	2021 May 18 1737	Atlas V 421	C1	AV-091	4.560	ULAL	OS	-	CG/G	Sat GTO D	Wire	-	-
2021-088	2459485.26	2021 Sep 27 1812:00	Atlas V 401	C	AV-092	2.910	ULAL	OS	-	CG/G	Sat SSO D	Wire	-	-
2021-093	2459503.90	2021 Oct 16 0934:00	Atlas V 401	C	AV-096	1.550	ULAL	DS	-	CG/G	Sat EEO E	Wire	-	-
2021-118	2459555.93	2021 Dec 7 1019	Atlas V 551	G	AV-093	1.525	ULAL	OS	-	CG/G	Sat GEO O 1	Wire	-	-
2022-006	2459601.29	2022 Jan 21 1900:00	Atlas V 511	G	AV-084	1.000	ULAL	OS	-	CG/G	Sat GEO O	Wire	-	-
2022-021	2459640.40	2022 Mar 1 2138:00	Atlas V 541	G	AV-095	5.209	ULAL	OS	-	CG/G	Sat GTO O	Wire	-	-
2022-055	2459719.45	2022 May 19 2254:47	Atlas V N22	-	AV-082	12.000	ULAL	OS	-	CX/C	Sat ISS D	Wire	-	-
2022-073	2459762.47	2022 Jul 1 2315:00	Atlas V 541	G	AV-094	3.700	ULAL	OS	-	CG/G	Sat GEO O 1	Wire	-	-
2022-092	2459795.94	2022 Aug 4 1029:00	Atlas V 421	G1	AV-097	4.500	ULAL	OS	-	CG/G	Sat GTO O	Wire	-	-
2022-123	2459857.40	2022 Oct 4 2136:00	Atlas V 531	G1	AV-099	3.267	ULAL	OS	-	CG/C	Sat GEO O	Wire	-	-
2022-150	2459893.91	2022 Nov 10 0949:00	Atlas V 401	C	AV-098	4.220	ULAL	OS	-	CG/G	Sat SSO D	Wire	-	-
2023-140	2460198.03	2023 Sep 10 1247:00	Atlas V 551	G	AV-102	3.600	ULAL	OS	-	CG/G	Sat GEO O	Wire	-	-
2023-154	2460224.25	2023 Oct 6 1806:00	Atlas V 501	-	AV-104	1.200	ULAL	DS	-	CG/C	Sat LEO E	Wire	-	-
2024-109	2460467.12	2024 Jun 5 1452:15	Atlas V N22	-	AV-085	12.000	ULAL	OS	-	CX/C	Sat ISS D	Wire	-	-
2024-134	2460521.95	2024 Jul 30 1045	Atlas V 551	G	AV-101	5.000	ULAL	OS	-	CG/G	Sat GEO O	Wire	-	-
2025-088	2460794.46	2025 Apr 28 2301	Atlas V 551	G	AV-107	17.000	ULAL	OS	-	C	Sat LEO D	Wire	-	-
2025-134	2460849.95	2025 Jun 23 1054:30	Atlas V 551	G	AV-105	17.000	ULAL	OS	-	C	Sat LEO D	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-W128	2438576.50	1964 Jul	Aurore	-	1	-	-	-	-	HMG	-	-	-	60?	-	-
1966-W373	2439448.20	1966 Nov 18 1644:00	Aurore	?	-	-	-	-	-	HMG	-	-	-	50?	-	-
1966-W374	2439449.20	1966 Nov 19 1644:00	Aurore	?	-	-	-	-	-	HMG	-	-	-	50?	-	-
1966-W375	2439450.20	1966 Nov 20 1653:00	Aurore	?	-	-	-	-	-	HMG	-	-	-	50?	-	-
1967-A148	2439619.16	1967 May 8 1547	Aurore	-	-	-	-	-	-	CERES	-	-	-	0	-	-
1967-A149	2439620.25	1967 May 9 1757	Aurore	-	-	-	-	-	-	CERES	-	-	-	0	-	-
1967-A150	2439621.99	1967 May 11 1147	Aurore	-	-	-	-	-	-	CERES	-	-	-	0	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-W128	2438576.50	1964 Jul	Aurore	-	1	0.000	MNF	SU	-	ONERA/	Aeron	Moulin/Serra	-	-
1966-W373	2439448.20	1966 Nov 18 1644:00	Aurore	?	-	0.000	CNES?	SU	-	ONERA/	Aeron	WDCRF	-	-
1966-W374	2439449.20	1966 Nov 19 1644:00	Aurore	?	-	0.000	CNES?	SU	-	ONERA/	Aeron	WDCRF	-	-
1966-W375	2439450.20	1966 Nov 20 1653:00	Aurore	?	-	0.000	CNES?	SU	-	ONERA/	Aeron	WDCRF	-	-
1967-A148	2439619.16	1967 May 8 1547	Aurore	-	-	0.000	ONERA	SF	U	ONERA/	Aeron	Serra,pc	-	-
1967-A149	2439620.25	1967 May 9 1757	Aurore	-	-	0.000	ONERA	SF	U	ONERA/	Aeron	Serra,pc	-	-
1967-A150	2439621.99	1967 May 11 1147	Aurore	-	-	0.000	ONERA	SF	U	ONERA/	Aeron	Serra,pc	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A172	2439761.50	1967 Sep 28	D-21B	-	501	Accidental launch	-	-	B-52H-T	A51	RW14/32	A51	X1	10?	0	-
1967-A164	2439800.50	1967 Nov 6	D-21B	-	507	Initial Test Series 1	-	-	B-52H-T	A51	RW14/32	WTR	LP6	26	248	-
1967-A165	2439826.50	1967 Dec 2	D-21B	-	509	Initial Test Series 2	-	-	B-52H-T	A51	RW14/32	WTR	LP6	26	2648	-
1968-A133	2439874.50	1968 Jan 19	D-21B	-	508	Initial Test Series 3	-	-	B-52H-T	A51	RW14/32	WTR	LP6	26	518	-
1968-A134	2439976.50	1968 Apr 30	D-21B	-	511	Initial Test Series 4	-	-	B-52H-T	A51	RW14/32	WTR	LP6	26	278	-
1968-A135	2440024.32	1968 Jun 16 1934	D-21B	-	512	Initial Test Series 5	-	-	B-52H-T	A51	RW14/32	WTR	LP6	27	5278	-
1968-A136	2440039.21	1968 Jul 1 1700	D-21B	-	514	Capt Hook I	-	-	B-52H-T	A51	RW14/32	KAU?	LP4	26	148	-
1968-A137	2440096.50	1968 Aug 28	D-21B	-	516	Capt Hook II	-	-	B-52H-T	A51	RW14/32	KAU?	LP4	26	144	-
1968-A138	2440205.50	1968 Dec 15	D-21B	-	515	Capt Hook III	-	-	B-52H-T	A51	RW14/32	KAU?	LP4	26	5469	-
1969-A222	2440263.50	1969 Feb 11	D-21B	-	518	Capt Hook IV	-	-	B-52H-T	A51	RW14/32	KAU?	LP4	26	298	-
1969-A223	2440352.42	1969 May 10 2202	D-21B	-	519	Capt Hook V	-	-	B-52H-T	BEALE	RW15/33	KAU?	LP4	29	5504	-
1969-A224	2440413.41	1969 Jul 10 2156	D-21B	-	520	Capt Hook VI	-	-	B-52H-T	BEALE	RW15/33	KAU	LP4	28	5439	-
1969-A225	2440535.50	1969 Nov 10	D-21B	-	517	SENIOR BOWL 02	South China op test	-	B-52H-T	GUAMA	RW06L/24R?	PHLDZ	-	26	-	-
1970-A178	2440637.50	1970 Feb 20	D-21B	-	521	LONG DRIVE	-	-	B-52H-T	BEALE	RW15/33	KAU?	LP4	29	5498	-
1970-A179	2440937.50	1970 Dec 17 0004	D-21B	-	523	SENIOR BOWL 04	South China	-	B-52H-T	GUAMA	RW06L/24R?	PHLDZ	-	26	4534	-
1971-A224	2441014.50	1971 Mar 4	D-21B	-	526	SENIOR BOWL	-	-	B-52H-T	GUAMA	RW06L/24R?	PHLDZ	-	26	5435	-
1971-A225	2441030.50	1971 Mar 20	D-21B	-	527	SENIOR BOWL	Lop Nor, shot down	-	B-52H-T	GUAMA	RW06L/24R?	PHLDZ?	-	26	5435	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A172	2439761.50	1967 Sep 28	D-21B	-	501	0.000	LAC/NROD	MF	U	-	Test	wvi.com	-	-
1967-A164	2439800.50	1967 Nov 6	D-21B	-	507	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1967-A165	2439826.50	1967 Dec 2	D-21B	-	509	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A133	2439874.50	1968 Jan 19	D-21B	-	508	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A134	2439976.50	1968 Apr 30	D-21B	-	511	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A135	2440024.32	1968 Jun 16 1934	D-21B	-	512	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A136	2440039.21	1968 Jul 1 1700	D-21B	-	514	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A137	2440096.50	1968 Aug 28	D-21B	-	516	0.000	LAC/NROD	MS	-	-	Test	NRO	-	-
1968-A138	2440205.50	1968 Dec 15	D-21B	-	515	0.000	NROD	MS	-	-	Test	NRO	-	-
1969-A222	2440263.50	1969 Feb 11	D-21B	-	518	0.000	NROD	MS	-	-	Test	NRO	-	-
1969-A223	2440352.42	1969 May 10 2202	D-21B	-	519	0.000	NROD	MS	-	-	Test	NRO	-	-
1969-A224	2440413.41	1969 Jul 10 2156	D-21B	-	520	0.000	NROD	MS	-	-	Test	NRO	-	-
1969-A225	2440535.50	1969 Nov 10	D-21B	-	517	0.000	NROD	MS	-	-	Test	NRO	-	-
1970-A178	2440637.50	1970 Feb 20	D-21B	-	521	0.000	NROD	MS	-	-	Test	NRO	-	-
1970-A179	2440937.50	1970 Dec 17 0004	D-21B	-	523	0.000	NROD	MS	-	-	Test	amarcexperience.com	NRO	-
1971-A224	2441014.50	1971 Mar 4	D-21B	-	526	0.000	NROD	MS	-	-	Test	wvi.com	-	-
1971-A225	2441030.50	1971 Mar 20	D-21B	-	527	0.000	NROD	MS	-	-	Test	wvi.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-S01	2455207.99	2010 Jan 11 1150:00	B-611	-	ABM Target	CSS-X-11	-	-	-	JQ	-	-	-	250?	-	-
2013-S03	2456320.01	2013 Jan 27 1210?	B-611	?	ABM Target	-	-	-	-	JQ	-	-	-	100?	-	-
2014-S40	2456861.50	2014 Jul 23	B-611	?	ABM Target	-	-	-	-	JQ	-	-	-	100?	-	-
2015-S65	2457327.46	2015 Oct 31 2300?	B-611	?	ABM Target	-	-	-	-	JQ	-	-	-	100?	-	-
2016-S70	2457743.61	2016 Dec 21 0245?	B-611	?	-	-	Possible target	-	-	JQ	-	-	-	100?	1000?	KORLA?
2017-A139	2457934.50	2017 Jul?	TP 0.1	-	1	TP 0.1-1	Teknoloji Platformu	Bora-1?	-	SINOP	-	-	-	0?	-	Black Sea
2017-S59	2457958.08	2017 Jul 23 1400?	B-611	?	ABM Target	-	-	-	-	JQ	-	-	-	100?	-	-
2017-S111	2457753.50	2017	TP 0.2	-	2	TP 0.2-2	Teknoloji Platformu	-	-	SINOP	-	-	-	130	-	Black Sea
2018-S59	2458402.96	2018 Oct 11 1100	B-611	?	ABM Target?	-	-	-	-	JQ	-	-	-	100?	-	-
2018-S97	2458474.50	2018 Dec 22?	TP 0.2	-	3	TP 0.2-3	Teknoloji Platformu	-	-	SINOP	LP1B	-	-	130?	-	Black Sea
2020-S38	2459148.50	2020 Oct 26?	SR 0.1	-	1	SR 0.1-1	Milli Sonda Roketi	-	-	SINOP	LP1B?	-	-	130?	-	Black Sea
2020-S39	2459151.50	2020 Oct 29	SR 0.1	-	2	SR 0.1-2	Milli Sonda Roketi	-	-	SINOP	LP1B?	-	-	135	-	Black Sea
2021-S14	2459249.50	2021 Feb 4	B-611	?	ABM Target?	-	-	-	-	JQ	-	-	-	100?	-	-
2021-M03	2459363.50	2021 May 29	Bora-1	-	Bora-1	-	-	10th Mtn Commando Brig.	-	DEREC	-	-	-	40?	-	-
2021-M04	2459386.50	2021 Jun 21?	Bora-1	?	Bora-1	-	-	-	-	DEREC	-	-	-	40?	-	Kurdistan?
2021-S49	2459414.50	2021 Jul 19	SR 0.1	?	-	SR	Milli Sonda Roketi	-	-	SINOP	LP1B?	-	-	100?	-	Black Sea
2022-S104	2459870.67	2022 Oct 18 0400?	Tayfun	-	Tayfun	-	-	-	-	RIZE	-	-	-	100?	-	Black Sea
2022-S135	2459932.92	2022 Dec 19 1000?	B-611	?	ABM Target?	-	-	-	-	JQ	-	-	-	100?	-	-
2023-S17	2460048.50	2023 Apr 14	B-611	?	ABM Target?	-	-	-	-	JQ	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-S01	2455207.99	2010 Jan 11 1150:00	B-611	-	ABM Target	0.000	PLA2AC	MS	-	-	ABM	Wikileaks	-	-
2013-S03	2456320.01	2013 Jan 27 1210?	B-611	?	ABM Target	0.000	PLA2AC	MS	-	-	ABM	9fly.com	Wire	-
2014-S40	2456861.50	2014 Jul 23	B-611	?	ABM Target	0.000	PLA2AC	MS	-	-	ABM	Unconfirmed	-	-
2015-S65	2457327.46	2015 Oct 31 2300?	B-611	?	ABM Target	0.000	PLA2AC	MS	-	-	ABM	armscontrolwonk.com	-	-
2016-S70	2457743.61	2016 Dec 21 0245?	B-611	?	-	0.000	PLA2AC	MS	-	-	ABM	eastpendulum.com	-	-
2017-A139	2457934.50	2017 Jul?	TP 0.1	-	1	0.000	ROKSN	SF	U	-	Test	twitter.com	-	-
2017-S59	2457958.08	2017 Jul 23 1400?	B-611	?	ABM Target	0.000	PLA2AC	MS	-	-	ABM	liuqiankktt.blog.163	-	-
2017-S111	2457753.50	2017	TP 0.2	-	2	0.000	ROKSN	SS	-	-	Test	twitter.com	-	-
2018-S59	2458402.96	2018 Oct 11 1100	B-611	?	ABM Target?	0.000	PLA2AC	MS	-	-	ABM	nasaspaceflight.com	-	-
2018-S97	2458474.50	2018 Dec 22?	TP 0.2	-	3	0.000	ROKSN	SS	-	-	Test	twitter.com	-	-
2020-S38	2459148.50	2020 Oct 26?	SR 0.1	-	1	0.000	ROKSN	SS	-	-	Test	twitter.com	-	-
2020-S39	2459151.50	2020 Oct 29	SR 0.1	-	2	0.000	ROKSN	SS	-	-	Test	twitter.com	-	-
2021-S14	2459249.50	2021 Feb 4	B-611	?	ABM Target?	0.000	PLA2AC	MS	-	-	ABM	Wire	-	-
2021-M03	2459363.50	2021 May 29	Bora-1	-	Bora-1	0.000	TULF	MS	-	-	Test	armscontrolwonk.com	-	-
2021-M04	2459386.50	2021 Jun 21?	Bora-1	?	Bora-1	0.000	TULF	MS	-	-	Test	armscontrolwonk.com	-	-
2021-S49	2459414.50	2021 Jul 19	SR 0.1	?	-	0.000	ROKSN	SS	-	-	Test	twitter.com	-	-
2022-S104	2459870.67	2022 Oct 18 0400?	Tayfun	-	Tayfun	0.000	ROKSN	MS	-	-	Test	Wire	-	-
2022-S135	2459932.92	2022 Dec 19 1000?	B-611	?	ABM Target?	0.000	PLA2AC	MS	-	-	ABM?	twitter.com	-	-
2023-S17	2460048.50	2023 Apr 14	B-611	?	ABM Target?	0.000	PLA2AC	MS	-	-	ABM	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S185	2437831.34	1962 Jun 15 2014	Black Brant III	-	AA-3-1	BB3 01	-	-	-	WI	-	-	-	98	-	-
1962-S186	2437831.46	1962 Jun 15 2301	Black Brant III	-	AA-3-2	BB3 02	-	-	-	WI	-	-	-	92	-	-
1962-S189	2437834.50	1962 Jun 19	Black Brant III	-	AA-3-3	BB3 03	-	-	-	WI	-	-	-	100	-	-
1962-A102	2437843.50	1962 Jun 28	Black Brant III	-	AA-3-4	BB3 04	-	-	-	WI	-	-	-	13	-	-
1962-S559	2438012.14	1962 Dec 13 1520	Black Brant III	-	AA-3-5	BB3 05	-	-	-	WI	-	-	-	98	-	-
1962-S560	2438012.32	1962 Dec 13 1945	Black Brant III	-	AA-3-6	BB3 06	-	-	-	WI	-	-	-	90	-	-
1963-S315	2438211.50	1963 Jul 1	Black Brant III	-	AA-3-7?	USN Eval 1	-	-	-	PA	LC-A	-	-	100	-	-
1963-S544	2438340.50	1963 Nov 7	Black Brant III	-	AA-3-8?	USN Eval 3	-	-	-	PA	LC-A	-	-	116	-	-
1964-S221	2438507.50	1964 Apr 21 2356	Black Brant III	-	FF-3-09	BB3 09	-	-	-	FC	-	-	-	150	-	-
1965-S245	2438872.72	1965 Apr 22 0514	Black Brant III	-	AA-3-11	-	-	-	-	FC	-	-	-	136	-	-
1965-S668	2439103.06	1965 Dec 8 1321	Black Brant III	-	NC7.179	-	-	-	-	EGL	-	-	-	140	-	-
1966-S123	2439178.05	1966 Feb 21 1310	Black Brant III	-	NC7.181	-	-	-	-	EGL	-	-	-	175	-	-
1966-S124	2439178.33	1966 Feb 21 1957	Black Brant III	-	NC7.180	-	-	-	-	EGL	-	-	-	188	-	-
1966-S125	2439178.35	1966 Feb 21 2023	Black Brant III	-	NC7.178	O2 density	-	-	-	FC	-	-	-	196	-	-
1966-S381	2439325.71	1966 Jul 19 0500	Black Brant III	-	AKF-3-16	-	-	-	-	RES	-	-	-	150	-	-
1966-S384	2439327.64	1966 Jul 21 0327	Black Brant III	-	AKF-3-15	-	-	-	-	RES	-	-	-	150	-	-
1966-S461	2439364.35	1966 Aug 26 2030	Black Brant III	-	AAF-3-13	-	-	-	-	FC	-	-	-	114	-	-
1966-S660	2439458.75	1966 Nov 29 0601	Black Brant III	-	AAF-3-12	-	-	-	-	FC	-	-	-	114	-	-
1966-S679	2439472.30	1966 Dec 12 1919	Black Brant III	-	ALF-3-18	BB3/1 Neutral dens.	-	-	-	FC	-	-	-	137	-	-
1967-S333	2439676.48	1967 Jul 4 2335	Black Brant III	-	ALF-3-19	Mass spectrometer	-	-	-	FC	-	-	-	131	-	-
1967-S335	2439676.58	1967 Jul 5 0200	Black Brant III	-	ALF-3-20	Mass spectrometer	-	-	-	FC	-	-	-	151	-	-
1967-S344	2439683.52	1967 Jul 12 0023	Black Brant III	-	ADF-3-24	O2 profile	-	-	-	FC	-	-	-	95	-	-
1967-S345	2439683.96	1967 Jul 12 1100	Black Brant III	-	ADF-3-25	O2 profile	-	-	-	FC	-	-	-	95	-	-
1967-S498	2439783.95	1967 Oct 20 1049	Black Brant III	-	AKF-3-26	-	-	-	-	RES	-	-	-	120?	-	-
1967-S500	2439785.90	1967 Oct 22 0942	Black Brant III	-	AKF-3-27	-	-	-	-	RES	-	-	-	156	-	-
1968-S525	2440137.71	1968 Oct 8 0507	Black Brant III	-	AKF-3-40	-	-	-	-	RES	-	-	-	153	-	-
1968-S527	2440138.64	1968 Oct 9 0320	Black Brant III	-	AKF-3-39	-	-	-	-	RES	-	-	-	120?	-	-
1968-S562	2440161.37	1968 Oct 31 2056	Black Brant III	-	ADF-3-31	PCA Ionos	-	-	-	FC	-	-	-	140	-	-
1968-S563	2440161.65	1968 Nov 1 0331	Black Brant III	-	ADF-3-33	PCA Ionos	-	-	-	FC	-	-	-	138	-	-
1968-S589	2440179.57	1968 Nov 19 0138:30	Black Brant III	-	K-BB/III-14	DLR K-BB3-14	Kiruna-5	-	-	ESR	N	-	-	167	-	-
1968-S591	2440179.69	1968 Nov 19 0429	Black Brant III	-	ADF-3-32	-	-	-	-	FC	-	-	-	288	-	-
1968-S619	2440194.42	1968 Dec 3 2158:00	Black Brant III	-	K-BB/III-16	DLR K-BB3-16	Kiruna-5	-	-	ESR	N	-	-	165	-	-
1968-S625	2440195.30	1968 Dec 4 1906	Black Brant III	-	ALF-3-17	BB3/2	-	-	-	FC	-	-	-	158	-	-
1968-S626	2440195.44	1968 Dec 4 2226:30	Black Brant III	-	K-BB/III-15	DLR K-BB3-15	Kiruna-5	-	-	ESR	N	-	-	170	-	-
1969-S159	2440281.29	1969 Feb 28 1857	Black Brant IIIB	-	NASA 12.04GT	-	-	-	-	WI	-	-	-	215	-	-
1969-S235	2440309.53	1969 Mar 29 0041	Black Brant III	-	ADF-3-37	O2 IR profile	-	-	-	FC	-	-	-	108	-	-
1969-S237	2440310.00	1969 Mar 29 1158	Black Brant III	-	ADF-3-38	O2 IR profile	-	-	-	FC	-	-	-	114	-	-
1969-A58	2440324.29	1969 Apr 12 1900	Black Brant III	-	ADF-3-29	-	-	-	-	FC	-	-	-	26	-	-
1969-S314	2440343.27	1969 May 1 1826	Black Brant IIIB	-	NASA 12.15GT	-	-	-	-	WI	-	-	-	215	-	-
1969-S577	2440519.75	1969 Oct 25 0600	Black Brant IIIB	-	AKF-3B-50	Soft X-ray survey	-	-	-	RES	-	-	-	192	-	-
1969-S578	2440520.78	1969 Oct 26 0640	Black Brant IIIB	-	AAF-3B-51	Soft X-ray survey	-	-	-	RES	-	-	-	197	-	-
1969-S596	2440528.94	1969 Nov 3 1028	Black Brant IIIB	-	AAF-3B-48	-	-	-	-	RES	-	-	-	200?	-	-
1969-S618	2440530.97	1969 Nov 5 1118	Black Brant IIIB	-	AAF-3B-49	-	-	-	-	RES	-	-	-	200	-	-
1969-S644	2440559.28	1969 Dec 3 1842	Black Brant III	-	AMF-3-47	-	-	-	-	FC	-	-	-	120	-	-
1969-S645	2440559.47	1969 Dec 3 2312	Black Brant III	-	AMF-3-46	-	-	-	-	FC	-	-	-	117	-	-
1970-S205	2440653.24	1970 Mar 7 1740:41	Black Brant III	-	AAF-3A-42	-	-	-	-	EQUOD	-	-	-	152	-	-
1970-S222	2440653.29	1970 Mar 7 1855:41	Black Brant III	-	AAF-3A-43	-	-	-	-	EQUOD	-	-	-	156	-	-
1970-S223	2440653.29	1970 Mar 7 1857:41	Black Brant III	-	AAF-3A-44	-	-	-	-	EQUOD	-	-	-	156	-	-
1970-S225	2440653.29	1970 Mar 7 1903:41	Black Brant III	-	AAF-3A-45	-	-	-	-	EQUOD	-	-	-	156	-	-
1971-S137	2441010.83	1971 Feb 28 0753	Black Brant III	-	AND-3-41	Gush CMB 1	-	-	-	FC	-	-	-	152	-	-
1971-S433	2441199.08	1971 Sep 4 1352	Black Brant IIIB	-	NASA 22.01UE	-	-	-	-	RES	-	-	-	150?	-	-
1971-S434	2441200.07	1971 Sep 5 1344	Black Brant IIIB	-	NASA 22.02UE	-	-	-	-	RES	-	-	-	150?	-	-
1972-S39	2441331.73	1972 Jan 15 0537	Black Brant IIIB	-	AAF-3B-53	-	-	-	-	GILLAM	-	-	-	190	-	-
1972-S70	2441355.91	1972 Feb 8 0945	Black Brant III	-	ADD-3A-54	IR airglow profile	-	-	-	FC	-	-	-	121	-	-
1972-S131	2441397.86	1972 Mar 21 0837:58	Black Brant III	-	AMF-3A-52	Oxygen recomb	-	-	-	FC	-	-	-	119	-	-
1972-S256	2441508.96	1972 Jul 10 1100	Black Brant III	-	ADD-3A-55	-	-	-	-	FC	-	-	-	106	-	-
1972-S258	2441509.30	1972 Jul 10 1919	Black Brant III	-	ADD-3A-56	-	-	-	-	FC	-	-	-	115	-	-
1972-S259	2441509.33	1972 Jul 10 1950	Black Brant III	-	ADD-3A-57	-	-	-	-	FC	-	-	-	166	-	-
1972-S260	2441509.35	1972 Jul 10 2026	Black Brant III	-	ADD-3A-58	-	-	-	-	FC	-	-	-	103	-	-
1972-S261	2441509.35	1972 Jul 10 2029	Black Brant III	-	ADD-3A-59	-	-	-	-	EQUOD	-	-	-	143	-	-
1972-S262	2441509.40	1972 Jul 10 2132	Black Brant III	-	ADD-3A-60	-	-	-	-	EQUOD	-	-	-	148	-	-
1972-S263	2441509.40	1972 Jul 10 2139	Black Brant III	-	ADD-3A-61	-	-	-	-	EQUOD	-	-	-	144	-	-
1972-S264	2441509.40	1972 Jul 10 2141	Black Brant III	-	ADD-3A-62	-	-	-	-	EQUOD	-	-	-	152	-	-
1972-S409	2441652.56	1972 Dec 1 0123	Black Brant IIIB	-	AND-3B-63	Gush CMB 2	-	-	-	FC	-	-	-	185	-	-
1973-S54	2441715.76	1973 Feb 2 0615	Black Brant IIIB	-	AAF-3B-67	-	-	-	-	GILLAM	-	-	-	200	-	-
1973-S79	2441735.66	1973 Feb 22 0349	Black Brant IIIB	-	AAD-3B-64	Auroral plasma	-	-	-	FC	-	-	-	207	-	-
1973-S83	2441737.81	1973 Feb 24 0720	Black Brant IIIB	-	AAD-3B-65	Auroral plasma	-	-	-	FC	-	-	-	190	-	-
1984-S88	2445831.97	1984 May 11 1122:31	Black Brant III	-	ARS-3A-69	SMERF 1	-	-	-	FC	-	-	-	103	-	-
1985-S74	2446192.45	1985 May 6 2245	Black Brant IIIB	-	ARS-3B-70	SMERF 2	-	-	-	FC	-	-	-	114	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S185	2437831.34	1962 Jun 15 2014	Black Brant III	-	AA-3-1	0.000	CARDE	SF	U	CARDE/	Test	UPI	CASJ20,396	-
1962-S186	2437831.46	1962 Jun 15 2301	Black Brant III	-	AA-3-2	0.000	CARDE	SF	U	CARDE/	Test	UPI	FI650107-14	-
1962-S189	2437834.50	1962 Jun 19	Black Brant III	-	AA-3-3	0.000	CARDE	SF	U	CARDE/	Test	FI650107-14	-	-
1962-A102	2437843.50	1962 Jun 28	Black Brant III	-	AA-3-4	0.000	CARDE	SF	U	CARDE/	Test	FI650107-14	-	-
1962-S559	2438012.14	1962 Dec 13 1520	Black Brant III	-	AA-3-5	0.000	CARDE	SS	-	CARDE/	Test	WI-PR621213	MR621224-11	-
1962-S560	2438012.32	1962 Dec 13 1945	Black Brant III	-	AA-3-6	0.000	CARDE	SS	-	CARDE/	Test	WI-PR621213	MR621224-11	-
1963-S315	2438211.50	1963 Jul 1	Black Brant III	-	AA-3-7?	0.000	NRL?	SS	-	NRL?/	Test	VAFB	Bristol	-
1963-S544	2438340.50	1963 Nov 7	Black Brant III	-	AA-3-8?	0.000	NRL?	SS	-	NRL?/	Test	VAFB	Bristol	-
1964-S221	2438507.50	1964 Apr 21 2356	Black Brant III	-	FF-3-09	0.000	NRCC	SS	-	BAJ/Huva	Test	FC	FI650107-14	-
1965-S245	2438872.72	1965 Apr 22 0514	Black Brant III	-	AA-3-11	0.000	NRCC	SS	-	NRCC/Budzinski	Auroral/Ionos	WDCRF	-	-
1965-S668	2439103.06	1965 Dec 8 1321	Black Brant III	-	NC7.179	0.000	NRL	SS	-	NRL/Grobecker	Aeron	WDCRF	-	-
1966-S123	2439178.05	1966 Feb 21 1310	Black Brant III	-	NC7.181	0.000	NRL	SS	-	NRL/Grobecker	Aeron	WDCRF	-	-
1966-S124	2439178.33	1966 Feb 21 1957	Black Brant III	-	NC7.180	0.000	NRL	SS	-	NRL/Grobecker	Aeron	WDCRF	-	-
1966-S125	2439178.35	1966 Feb 21 2023	Black Brant III	-	NC7.178	0.000	NRL	SS	-	NRL/Brousseau	Aeron	WDCRF	-	-
1966-S381	2439325.71	1966 Jul 19 0500	Black Brant III	-	AKF-3-16	0.000	NRCC	SS	-	CALG/Wilson,McNamara	Ionos/Solar X	WDCRF	SRctCon6	-
1966-S384	2439327.64	1966 Jul 21 0327	Black Brant III	-	AKF-3-15	0.000	NRCC	SS	-	CALG/Wilson,McNamara	Ionos/CR	WDCRF	SRctCon6	-
1966-S461	2439364.35	1966 Aug 26 2030	Black Brant III	-	AAF-3-13	0.000	NRCC	SS	-	NRCC/Meyer	Test/Aeron	FC	-	-
1966-S660	2439458.75	1966 Nov 29 0601	Black Brant III	-	AAF-3-12	0.000	NRCC	SS	-	NRCC/Budzinski	Plasma/Fields	WDCRF	-	-
1966-S679	2439472.30	1966 Dec 12 1919	Black Brant III	-	ALF-3-18	0.000	NRCC	SS	-	BONN/vonZahn	Aeron	FC	SR8-920	-
1967-S333	2439676.48	1967 Jul 4 2335	Black Brant III	-	ALF-3-19	0.000	NRCC	SS	-	MPE/Zahringer	Aeron	FC	-	-
1967-S335	2439676.58	1967 Jul 5 0200	Black Brant III	-	ALF-3-20	0.000	NRCC	SS	-	MPE/Zahringer	Aeron	FC	-	-
1967-S344	2439683.52	1967 Jul 12 0023	Black Brant III	-	ADF-3-24	0.000	NRCC	SS	-	SASK/Llewellyn	Airglow IR	WDCRF	-	-
1967-S345	2439683.96	1967 Jul 12 1100	Black Brant III	-	ADF-3-25	0.000	NRCC	SS	-	SASK/Llewellyn	Airglow IR	WDCRF	-	-
1967-S498	2439783.95	1967 Oct 20 1049	Black Brant III	-	AKF-3-26	0.000	NRCC	SS	-	CALG/Baxter,Wilson	Ionos/XR Astron	WDCRF	SRctCon6	-
1967-S500	2439785.90	1967 Oct 22 0942	Black Brant III	-	AKF-3-27	0.000	NRCC	SS	-	CALG/Baxter,Wilson	Ionos/XR Astron	WDCRF	SR9,222	-
1968-S525	2440137.71	1968 Oct 8 0507	Black Brant III	-	AKF-3-40	0.000	NRCC	SS	-	CALG/Baxter,Wilson	XR Astron/Ionos	WDCRF	SRctCon6	-
1968-S527	2440138.64	1968 Oct 9 0320	Black Brant III	-	AKF-3-39	0.000	NRCC	SS	-	CALG/?	Ionos/CR/Solar X	WDCRF	SRctCon6	-
1968-S562	2440161.37	1968 Oct 31 2056	Black Brant III	-	ADF-3-31	0.000	NRCC	SS	-	SASK/Montelbetti,Wilson	Aeron/Ionos	WDCRF	-	-
1968-S563	2440161.65	1968 Nov 1 0331	Black Brant III	-	ADF-3-33	0.000	NRCC	SS	-	SASK/Montelbetti,Anger	Aeron/Ionos/Plasma	WDCRF	-	-
1968-S589	2440179.57	1968 Nov 19 0138:30	Black Brant III	-	K-BB/III-14	0.000	DLR	SS	-	BRSW/Heinrich,Reimer	Ionos/Plasma	Moraba	SR10,766	-
1968-S591	2440179.69	1968 Nov 19 0429	Black Brant III	-	ADF-3-32	0.000	NRCC	SF	U	SASK/Montelbetti	Ionos/Plasma	WDCRF	-	-
1968-S619	2440194.42	1968 Dec 3 2158:00	Black Brant III	-	K-BB/III-16	0.000	DLR	SS	-	BRSW/	Ionos/Plasma	Moraba	SR10,766	-
1968-S625	2440195.30	1968 Dec 4 1906	Black Brant III	-	ALF-3-17	0.000	NRCC	SS	-	BONN/vonZahn	Aeron	SR11,875	-	-
1968-S626	2440195.44	1968 Dec 4 2226:30	Black Brant III	-	K-BB/III-15	0.000	DLR	SS	-	BRSW/	Ionos/Plasma	Moraba	SR10,766	-
1969-S159	2440281.29	1969 Feb 28 1857	Black Brant IIIB	-	NASA 12.04GT	0.000	GSFC	SS	-	GSFC/Rudmann	Test	WDCRF	SRctCon2	-
1969-S235	2440309.53	1969 Mar 29 0041	Black Brant III	-	ADF-3-37	0.000	NRCC	SS	-	SASK/Jones	Auroral	FC	-	-
1969-S237	2440310.00	1969 Mar 29 1158	Black Brant III	-	ADF-3-38	0.000	NRCC	SS	-	SASK/Jones	Auroral	WDCRF	-	-
1969-A58	2440324.29	1969 Apr 12 1900	Black Brant III	-	ADF-3-29	0.000	NRCC	SF	U	SASK/Montelbetti	Ionos	WDCRF	-	-
1969-S314	2440343.27	1969 May 1 1826	Black Brant IIIB	-	NASA 12.15GT	0.000	GSFC	SS	-	GSFC/Rudmann	Test	WI-PR69-9	SRctCon2	-
1969-S577	2440519.75	1969 Oct 25 0600	Black Brant IIIB	-	AKF-3B-50	0.000	NRCC	SS	-	CALG/Wilson	XR Astron	WDCRF	SRctCon6	-
1969-S578	2440520.78	1969 Oct 26 0640	Black Brant IIIB	-	AAF-3B-51	0.000	NRCC	SS	-	CALG/Wilson	XR Astron	WDCRF	SRctCon6	-
1969-S596	2440528.94	1969 Nov 3 1028	Black Brant IIIB	-	AAF-3B-48	0.000	NRCC	SS	-	NRCC/Whalen,Anger	Auroral/CR	WDCRF	SRctCon6	-
1969-S618	2440530.97	1969 Nov 5 1118	Black Brant IIIB	-	AAF-3B-49	0.000	NRCC	SS	-	NRCC/Whalen,Anger	Auroral/CR	WDCRF	SRctCon6	-
1969-S644	2440559.28	1969 Dec 3 1842	Black Brant III	-	AMF-3-47	0.000	NRCC	SS	-	YORK/Schiff	Aeron	FC	WDCRF	-
1969-S645	2440559.47	1969 Dec 3 2312	Black Brant III	-	AMF-3-46	0.000	NRCC	SS	-	YORK/Schiff	Aeron	FC	WDCRF	-
1970-S205	2440653.24	1970 Mar 7 1740:41	Black Brant III	-	AAF-3A-42	0.000	NRCC	SS	-	RSRS/NRCC/Hall	Eclipse/Solar UV/X	Nature226,1101	WDCRF	-
1970-S222	2440653.29	1970 Mar 7 1855:41	Black Brant III	-	AAF-3A-43	0.000	NRCC	SS	-	RSRS/NRCC/Hall	Eclipse/Solar UV/X	Nature226,1101	WDCRF	-
1970-S223	2440653.29	1970 Mar 7 1857:41	Black Brant III	-	AAF-3A-44	0.000	NRCC	SS	-	RSRS/NRCC/Hall	Eclipse/Solar UV/X	Nature226,1101	WDCRF	-
1970-S225	2440653.29	1970 Mar 7 1903:41	Black Brant III	-	AAF-3A-45	0.000	NRCC	SS	-	RSRS/NRCC/Hall	Eclipse/Solar UV/X	Nature226,1101	WDCRF	-
1971-S137	2441010.83	1971 Feb 28 0753	Black Brant III	-	AND-3-41	0.000	NRCC	SS	-	UBC/Gush	Submm Astron	WDCRF	-	-
1971-S433	2441199.08	1971 Sep 4 1352	Black Brant IIIB	-	NASA 22.01UE	0.000	GSFC	SS	-	UCB/Anderson	Plasma	JCM	-	-
1971-S434	2441200.07	1971 Sep 5 1344	Black Brant IIIB	-	NASA 22.02UE	0.000	GSFC	SS	-	UCB/Anderson	Plasma	JCM	-	-
1972-S39	2441331.73	1972 Jan 15 0537	Black Brant IIIB	-	AAF-3B-53	0.000	NRCC	SS	-	NRCC/Whalen	Auroral	WDCRF	-	-
1972-S70	2441355.91	1972 Feb 8 0945	Black Brant III	-	ADD-3A-54	0.000	NRCC	SS	-	SASK/Llewellyn	Aeron/Ionos/IR Astr	WDCRF	-	-
1972-S131	2441397.86	1972 Mar 21 0837:58	Black Brant III	-	AMF-3A-52	0.000	NRCC	SS	-	YORK/Schiff	Aeron	FC	WDCRF	-
1972-S256	2441508.96	1972 Jul 10 1100	Black Brant III	-	ADD-3A-55	0.000	NRCC	SS	-	SASK/Llewellyn	Aeron/Eclipse	FC	WDCRF	-
1972-S258	2441509.30	1972 Jul 10 1919	Black Brant III	-	ADD-3A-56	0.000	NRCC	SS	-	SASK/Llewellyn	Aeron/Eclipse	FC	WDCRF	-
1972-S259	2441509.33	1972 Jul 10 1950	Black Brant III	-	ADD-3A-57	0.000	NRCC	SS	-	SASK/Llewellyn	Aeron/Eclipse	FC	WDCRF	-
1972-S260	2441509.35	1972 Jul 10 2026	Black Brant III	-	ADD-3A-58	0.000	NRCC	SS	-	SASK/Llewellyn	Aeron/Eclipse	FC	WDCRF	-
1972-S261	2441509.35	1972 Jul 10 2029	Black Brant III	-	ADD-3A-59	0.000	NRCC	SS	-	RSRS/CRC/Hall	Solar UV/X	WDCRF	-	-
1972-S262	2441509.40	1972 Jul 10 2132	Black Brant III	-	ADD-3A-60	0.000	NRCC	SS	-	RSRS/CRC/Hall	Solar UV/X	WDCRF	-	-
1972-S263	2441509.40	1972 Jul 10 2139	Black Brant III	-	ADD-3A-61	0.000	NRCC	SS	-	RSRS/CRC/Hall	Solar UV/X	WDCRF	-	-
1972-S264	2441509.40	1972 Jul 10 2141	Black Brant III	-	ADD-3A-62	0.000	NRCC	SS	-	RSRS/CRC/Hall	Solar UV/X	WDCRF	-	-
1972-S409	2441652.56	1972 Dec 1 0123	Black Brant IIIB	-	AND-3B-63	0.000	NRCC	SS	-	UBC/Gush	Submm Astron	WDCRF	-	-
1973-S54	2441715.76	1973 Feb 2 0615	Black Brant IIIB	-	AAF-3B-67	0.000	NRCC	SS	-	NRCC/Whalen	Auroral	WDCRF	FC	-
1973-S79	2441735.66	1973 Feb 22 0349	Black Brant IIIB	-	AAD-3B-64	0.000	NRCC	SS	-	NRCC/McNamara	Aeron	WDCRF	-	-
1973-S83	2441737.81	1973 Feb 24 0720	Black Brant IIIB	-	AAD-3B-65	0.000	NRCC	SS	-	NRCC/McNamara	Aeron	FC	WDCRF	-
1984-S88	2445831.97	1984 May 11 1122:31	Black Brant III	-	ARS-3A-69	0.000	NRCC	SS	-	AES/Evans	Aeron	FC	CANJPhys66,941	-
1985-S74	2446192.45	1985 May 6 2245	Black Brant IIIB	-	ARS-3B-70	0.000	NRCC	SS	-	AES/Evans	Aeron	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S162	2436817.14	1959 Sep 5 1527	Black Brant I	-	NRC BB-1-01	PTV-1	-	-	-	FC	-	-	-	100?	-	-
1959-S163	2436817.43	1959 Sep 5 2224	Black Brant I	-	NRC BB-1-02	-	-	-	-	FC	-	-	-	90	-	-
1959-S164	2436820.13	1959 Sep 8 1514	Black Brant I	-	NRC BB-1-03	-	-	-	-	FC	-	-	-	130	-	-
1959-S167	2436822.41	1959 Sep 10 2148	Black Brant I	-	NRC BB-1-04	-	-	-	-	FC	-	-	-	127	-	-
1960-S99	2437073.38	1960 May 18 2104	Black Brant I	-	NRC BB-1-05	-	-	-	-	FC	-	-	-	89	-	-
1960-S104	2437079.24	1960 May 24 1744	Black Brant I	-	NRC BB-1-06	-	-	-	-	FC	-	-	-	171	-	-
1960-S110	2437083.27	1960 May 28 1827	Black Brant I	-	NRC BB-1-07	-	-	-	-	FC	-	-	-	177	-	-
1960-S284	2437200.78	1960 Sep 23 0640	Black Brant I	-	NRC BB-1-08	NO2 seeding	-	-	-	FC	-	-	-	100?	-	-
1960-S306	2437207.76	1960 Sep 30 0617	Black Brant I	-	NRC BB-1-09	NO2 seeding	-	-	-	FC	-	-	-	100?	-	-
1960-S312	2437216.11	1960 Oct 8 1445	Black Brant I	-	BB-1-11	DRTE-04 Type II aur.	-	-	-	FC	-	-	-	116	-	-
1960-S317	2437220.19	1960 Oct 12 1637	Black Brant II	-	CC-2A-13	-	-	-	-	FC	-	-	-	196	-	-
1960-S318	2437220.39	1960 Oct 12 2127	Black Brant II	-	CC-2A-14	-	-	-	-	FC	-	-	-	216	-	-
1960-S332	2437228.33	1960 Oct 20 1950	Black Brant I	-	BB-1-10	DRTE-03	-	-	-	FC	-	-	-	137	-	-
1960-S339	2437236.01	1960 Oct 28 1221	Black Brant I	-	BB-1-12	DRTE-05	-	-	-	FC	-	-	-	150	-	-
1963-S109	2438109.66	1963 Mar 21 0353	Black Brant I	-	CC-1-28	NO2 seeding	-	-	-	FC	-	-	-	80?	-	-
1963-S113	2438113.64	1963 Mar 25 0317	Black Brant I	-	CC-1-38	NO2 seeding	-	-	-	FC	-	-	-	100?	-	-
1963-S136	2438125.67	1963 Apr 6 0403	Black Brant I	-	AD-1-26	Ionos/fields	-	-	-	FC	-	-	-	144	-	-
1963-S137	2438125.81	1963 Apr 6 0725	Black Brant I	-	AD-1-23	-	-	-	-	FC	-	-	-	140	-	-
1963-S189	2438157.35	1963 May 7 2030	Black Brant II	-	BB-2A-22	-	-	-	-	FC	-	-	-	139	-	-
1963-S267	2438191.71	1963 Jun 11 0506	Black Brant II	-	BB-2A-21	-	-	-	-	FC	-	-	-	135	-	-
1963-S297	2438205.29	1963 Jun 24 1900	Black Brant II	-	CC-2A-18	-	-	-	-	FC	-	-	-	171	-	-
1963-S298	2438205.46	1963 Jun 24 2300	Black Brant II	-	CC-2A-17	-	-	-	-	FC	-	-	-	162	-	-
1963-S347	2438231.38	1963 Jul 20 2105	Black Brant II	-	AB17.199	Opn Probe High	-	-	-	FC	-	-	-	143	-	-
1963-S362	2438237.39	1963 Jul 26 2119	Black Brant II	-	AC17.61	D region e density	-	-	-	FC	-	-	-	143	-	-
1963-S488	2438316.73	1963 Oct 14 0534	Black Brant II	-	BB-2A-20	-	-	-	-	FC	-	-	-	145	-	-
1963-S502	2438320.89	1963 Oct 18 0920	Black Brant II	-	CC-2A-39	NO2 release	-	-	-	FC	-	-	-	140?	-	-
1963-S518	2438328.58	1963 Oct 26 0200	Black Brant II	-	CC-2A-19	-	-	-	-	FC	-	-	-	145	-	-
1963-S523	2438331.62	1963 Oct 29 0253	Black Brant II	-	CC-2A-40	NO2 release	-	-	-	FC	-	-	-	140?	-	-
1964-S22	2438403.72	1964 Jan 9 0522	Black Brant II	-	AA-2-41	Auroral particles	-	-	-	FC	-	-	-	115	-	-
1964-S30	2438408.75	1964 Jan 14 0605	Black Brant II	-	AA-2-25	Auroral particles	-	-	-	FC	-	-	-	155	-	-
1964-M02	2438411.81	1964 Jan 17 0721	Black Brant II	-	AD-2-42	-	-	-	-	FC	-	-	-	75	-	-
1964-S41	2438415.25	1964 Jan 20 1800	Black Brant II	-	CC-2A-29	Fin test	-	-	-	FC	-	-	-	204	-	-
1964-S42	2438415.39	1964 Jan 20 2115	Black Brant II	-	CC-2A-30	Fin test	-	-	-	FC	-	-	-	204	-	-
1964-S191	2438492.73	1964 Apr 7 0529	Black Brant II	-	AA-2A-43	Auroral particles	-	-	-	FC	-	-	-	155	-	-
1964-S193	2438494.82	1964 Apr 9 0747	Black Brant II	-	AD-2A-44	Auroral study Apr9?	-	-	-	FC	-	-	-	154	-	-
1964-S211	2438501.80	1964 Apr 16 0716	Black Brant II	-	AD-2A-36	-	-	-	-	FC	-	-	-	152	-	-
1964-S213	2438502.53	1964 Apr 17 0044	Black Brant II	-	AF-2A-35/03	Daytime ne	-	-	-	FC	-	-	-	172	-	-
1964-S705	2438571.36	1964 Jun 24 2034	Black Brant IVA	-	NRC FF-4-01	-	-	-	-	FC	-	-	-	467	-	-
1964-S706	2438579.38	1964 Jul 2 2100	Black Brant IVA	-	NRC FF-4-02	-	-	-	-	FC	-	-	-	400?	-	-
1964-A131	2438646.65	1964 Sep 8 0343	Black Brant II	-	AK-2A-59	-	-	-	-	FC	-	-	-	20?	-	-
1964-S467	2438653.79	1964 Sep 15 0659	Black Brant II	-	AD-2A-58	-	-	-	-	FC	-	-	-	166	-	-
1964-S504	2438675.35	1964 Oct 6 2020	Black Brant IIB	-	CC-2B-49	-	-	-	-	FC	-	-	-	211	-	-
1964-S506	2438676.27	1964 Oct 7 1835	Black Brant IIB	-	CC-2B-61	-	-	-	-	FC	-	-	-	213	-	-
1964-S541	2438696.21	1964 Oct 27 1657	Black Brant II	-	AC17.606	D region	-	-	-	FC	-	-	-	149	-	-
1964-S649	2438726.83	1964 Nov 27 0802	Black Brant II	-	AA-2A-37	-	-	-	-	FC	-	-	-	170	-	-
1965-S44	2438783.41	1965 Jan 22 2146	Black Brant IVA	-	NRC FF-4-03	-	-	-	-	FC	-	-	-	670	-	-
1965-S47	2438784.26	1965 Jan 23 1815	Black Brant IVA	-	NRC FF-4-04	-	-	-	-	FC	-	-	-	735	-	-
1965-S48	2438786.17	1965 Jan 25 1600	Black Brant IIB	-	CC-2B-48	-	-	-	-	FC	-	-	-	230	-	-
1965-A13	2438786.37	1965 Jan 25 2053	Black Brant IIB	-	CC-2B-56	-	-	-	-	FC	-	-	-	20?	-	-
1965-S167	2438837.40	1965 Mar 17 2130	Black Brant II	-	AE-2A-24	-	-	-	-	FC	-	-	-	153	-	-
1965-S175	2438838.77	1965 Mar 19 0624	Black Brant II	-	AA-2A-52	-	-	-	-	FC	-	-	-	168	-	-
1965-S186	2438842.78	1965 Mar 23 0640	Black Brant II	-	AA-2A-53	[or Mar 23]	-	-	-	FC	-	-	-	166	-	-
1965-S192	2438843.74	1965 Mar 24 0544	Black Brant II	-	AA-2A-60	[or Mar 24]	-	-	-	FC	-	-	-	155	-	-
1965-A76	2438908.50	1965 May 27 2356	Black Brant II	-	BB-2A-51	-	-	-	-	FC	-	-	-	27	-	-
1965-S338	2438914.10	1965 Jun 2 1419	Black Brant II	-	BB-2A-50	-	-	-	-	FC	-	-	-	150	-	-
1965-S354	2438924.30	1965 Jun 12 1914	Black Brant VB	-	FF-VB-01	Test 1	-	-	-	FC	-	-	-	378	-	-
1965-S365	2438930.17	1965 Jun 18 1612	Black Brant VB	-	FF-VB-02	Test 2	-	-	-	FC	-	-	-	364	-	-
1965-S496	2439020.46	1965 Sep 16 2305	Black Brant VB	-	VB-03	CRL AE18.315	-	-	-	EGL	-	-	-	344	-	-
1966-S192	2439210.80	1966 Mar 26 0707	Black Brant II	-	AA-2A-103	-	-	-	-	FC	-	-	-	153	-	-
1966-S196	2439214.68	1966 Mar 30 0419	Black Brant II	-	AK-2A-104	-	-	-	-	FC	-	-	-	154	-	-
1966-S445	2439354.65	1966 Aug 17 0339	Black Brant VB	-	ALF-VB-08	MPE Ba release	-	-	-	FC	-	-	-	390	-	-
1966-S449	2439356.82	1966 Aug 19 0744	Black Brant VB	-	ALF-VB-09	MPE Ba release	-	-	-	FC	-	-	-	391	-	-
1966-S510	2439397.26	1966 Sep 28 1816	Black Brant II	-	CRL AC17.604D	-	-	-	-	FC	-	-	-	116	-	-
1966-S634	2439448.51	1966 Nov 19 0010	Black Brant II	-	AAD-2A-106	H line emission	-	-	-	FC	-	-	-	144	-	-
1966-S661	2439458.76	1966 Nov 29 0608	Black Brant IVA	-	AAF-4-05	CR/ne probe	-	-	-	FC	-	-	-	800	-	-
1966-S689	2439475.15	1966 Dec 15 1532	Black Brant IVA	-	AAF-4-08	-	-	-	-	FC	-	-	-	871	-	-
1966-S691	2439475.40	1966 Dec 15 2132	Black Brant IVA	-	AAF-4-07	-	-	-	-	FC	-	-	-	871	-	-
1966-A152	2439472.86	1966 Dec 13 0837	Black Brant VA	-	AAD-VA-107	Geminids	-	-	-	FC	-	-	-	48	-	-
1967-S66	2439511.78	1967 Jan 21 0638	Black Brant II	-	AA-2-105	-	-	-	-	FC	-	-	-	170	-	-
1967-S68	2439513.28	1967 Jan 22 1847	Black Brant II	-	AA-2-102	-	-	-	-	FC	-	-	-	129	-	-
1967-S115	2439525.72	1967 Feb 4 0521	Black Brant II	-	AA-2-101	Rec test/Ionos	-	-	-	FC	-	-	-	183	-	-
1967-S231	2439606.68	1967 Apr 26 0415	Black Brant VB	-	AFF-VB-06	Test	-	-	-	FC	-	-	-	396	-	-
1967-S234	2439607.67	1967 Apr 27 0410	Black Brant VB	-	AFF-VB-07	Test	-	-	-	FC	-	-	-	398	-	-
1967-S247	2439615.68	1967 May 5 0426	Black Brant VB	-	AAD-VB-10	-	-	-	-	FC	-	-	-	361	-	-
1967-S365	2439705.82	1967 Aug 3 0736	Black Brant VB	-	ALF-VB-12	MPE Ba release	-	-	-	FC	-	-	-	448	-	-
1967-S372	2439708.67	1967 Aug 6 0404	Black Brant VB	-	ALF-VB-13	MPE Ba release	-	-	-	FC	-	-	-	287	-	-
1967-S456	2439762.19	1967 Sep 28 1635	Black Brant VA	-	AFF-VA-119	-	-	-	-	FC	-	-	-	165	-	-
1967-S475	2439768.67	1967 Oct 5 0411	Black Brant VA	-	AFF-VA-120	-	-	-	-	FC	-	-	-	182	-	-
1967-S570	2439831.18	1967 Dec 6 1614:51	Black Brant VA	-	CRL AF17.750D	Particles	-	-	-	FC	-	-	-	137	-	-
1968-S88	2439874.60	1968 Jan 19 0224	Black Brant II	-	AAF-2-108	Te/ne	-	-	-	FC	-	-	-	142	-	-
1968-S90	2439877.63	1968 Jan 22 0304:42	Black Brant VB	-	ADD-VB-11	Hbeta/ne	-	-	-	FC	-	-	-	377	-	-
1968-S97	2439878.75	1968 Jan 23 0558	Black Brant II	-	ADD-2-109/ADD-VB-109	Fields/Ionos/Mmet	-	-	-	FC	-	-	-	151	-	-
1968-S102	2439885.71	1968 Jan 30 0503	Black Brant II	-	AKD-2A-111	-	-	-	-	FC	-	-	-	161	-	-
1968-S217	2439942.69	1968 Mar 27 0440	Black Brant VB	-	AAF-VB-04	Auroral fluxes	-	-	-	FC	-	-	-	290	-	-
1968-S252	2439950.08	1968 Apr 3 1348	Black Brant VB	-	AAF-VB-05	Auroral fluxes	-	-	-	FC	-	-	-	316	-	-
1968-S256	2439952.61	1968 Apr 6 0245	Black Brant IVA	-	AKF-4-10	Calgary CR/ionos	-	-	-	FC	-	-	-	862	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S266	2439962.67	1968 Apr 16 0358	Black Brant II	-	AKD-2A-113	Auroral breakup	-	-	-	FC	-	-	-	155	-	-
1968-S269	2439964.74	1968 Apr 18 0542	Black Brant II	-	AKD-2A-110	Auroral breakup	-	-	-	FC	-	-	-	152	-	-
1968-S270	2439964.76	1968 Apr 18 0614	Black Brant II	-	AKD-2A-112	Auroral breakup	-	-	-	FC	-	-	-	155	-	-
1968-S274	2439969.70	1968 Apr 23 0447	Black Brant II	-	AMF-2A-115	(dup for 116?)	-	-	-	FC	-	-	-	337	-	-
1968-A74	2439969.70	1968 Apr 23 0447	Black Brant II	-	AMF-2A-116	Auroral spectrum	-	-	-	FC	-	-	-	21	-	-
1968-S306	2439983.72	1968 May 7 0510	Black Brant IVA	-	NASA 19.04II	Isis test	-	-	-	WI	-	-	-	820	-	-
1968-S368	2440018.16	1968 Jun 10 1549	Black Brant VA	-	CRL AH17.751D	D region protons	-	-	-	FC	-	-	-	112	-	-
1968-S373	2440019.48	1968 Jun 11 2330	Black Brant IVA	-	NASA 19.01NE	SAAP	-	-	-	CLBI	-	-	-	790	-	-
1968-S441	2440070.76	1968 Aug 2 0619	Black Brant VB	-	ADD-VB-18	-	-	-	-	FC	-	-	-	284	-	-
1968-S592	2440179.83	1968 Nov 19 0800:31	Black Brant VA	-	CRL AG17.757	PCA D-region	-	-	-	FC	-	-	-	129	-	-
1968-S617	2440194.31	1968 Dec 3 1930	Black Brant IVA	-	-	(DLR N-BB4)	-	-	-	CLBI	-	-	-	700	-	-
1968-S622	2440195.24	1968 Dec 4 1751	Black Brant IVA	?	-	-	-	-	-	CLBI	-	-	-	600?	-	-
1968-S624	2440195.26	1968 Dec 4 1812	Black Brant IVA	-	ALF-IV-12	Mass spectrometer	-	-	-	FC	-	-	-	100?	-	-
1968-S650	2440203.91	1968 Dec 13 0945	Black Brant II	-	AAF-2-125	Geminids	-	-	-	FC	LC7	-	-	143	-	-
1968-S654	2440208.98	1968 Dec 18 1138	Black Brant VB	-	AKD-VB-21	Calgary auroral	-	-	-	FC	-	-	-	363	-	-
1969-S65	2440235.73	1969 Jan 14 0525	Black Brant IVA	-	AAF-4-17	-	-	-	-	FC	-	-	-	99	-	-
1969-S89	2440249.80	1969 Jan 28 0716	Black Brant II	-	AEF-2-118	N2,temp profile	-	-	-	FC	-	-	-	149	-	-
1969-S133	2440266.47	1969 Feb 13 2311	Black Brant II	-	AMF-2-46	-	-	-	-	WI	-	-	-	265	-	-
1969-S145	2440271.68	1969 Feb 19 0417	Black Brant II	-	AMF-2-117	VUV auroral spectrum	-	-	-	FC	-	-	-	124	-	-
1969-S166	2440286.76	1969 Mar 6 0614	Black Brant IVA	-	AAD-4-16	-	-	-	-	FC	-	-	-	791	-	-
1969-S176	2440290.69	1969 Mar 10 0440	Black Brant VB	-	AKD-VB-20	-	-	-	-	FC	-	-	-	362	-	-
1969-S179	2440291.65	1969 Mar 11 0333	Black Brant VB	-	AAF-VB-22	-	-	-	-	FC	-	-	-	141	-	-
1969-S246	2440312.69	1969 Apr 1 0438	Black Brant VB	-	ADD-VB-23	VUV auroral	-	-	-	FC	-	-	-	372	-	-
1969-S313	2440343.33	1969 May 1 2000	Black Brant IVA	-	AHF-4-14	Electron content	-	-	-	FC	-	-	-	760	-	-
1969-S316	2440349.08	1969 May 7 1400	Black Brant IVA	-	AHF-4-15	Electron content	-	-	-	FC	-	-	-	820	-	-
1969-S366	2440388.09	1969 Jun 15 1405	Black Brant IVA	-	CRL A16.010-01	VLF Propagation	-	-	-	CLBI	-	-	-	582	-	-
1969-S486	2440471.09	1969 Sep 6 1410	Black Brant IVA	-	CRL A16.010-02	VLF Propagation	-	-	-	CLBI	-	-	-	623	-	-
1969-S494	2440475.55	1969 Sep 11 0107	Black Brant II	-	AAD-2-122	-	-	-	-	FC	-	-	-	137	-	-
1969-S496	2440476.54	1969 Sep 12 0102	Black Brant II	-	AAD-2-123	-	-	-	-	FC	-	-	-	138	-	-
1969-S508	2440483.64	1969 Sep 19 0315	Black Brant IVA	-	NASA 19.05NE	-	-	-	-	CLBI	-	-	-	856	-	-
1969-S589	2440528.35	1969 Nov 2 2020	Black Brant VA	-	CRL AJ17.602	PCA69 U-2	-	-	-	FC	-	-	-	120	-	-
1969-S592	2440528.75	1969 Nov 3 0605	Black Brant VA	-	CRL AJ17.758	PCA69 U-1	-	-	-	FC	-	-	-	126	-	-
1969-S600	2440529.08	1969 Nov 3 1352	Black Brant VA	-	CRL AJ17.616	PCA69 U-5	-	-	-	FC	-	-	-	113	-	-
1969-S602	2440529.22	1969 Nov 3 1711	Black Brant VA	-	CRL A17.906-1	PCA69 U-4	-	-	-	FC	-	-	-	126	-	-
1969-S606	2440529.45	1969 Nov 3 2245	Black Brant VA	-	CRL AJ17.611	PCA69 U-3	-	-	-	FC	-	-	-	82	-	-
1969-S615	2440530.46	1969 Nov 4 2308	Black Brant VA	-	CRL AJ17.617	PCA69 U-6	-	-	-	FC	-	-	-	126	-	-
1969-S624	2440533.83	1969 Nov 8 0749	Black Brant VB	-	NRL NF9.207	-	-	-	-	WI	-	-	-	189	-	-
1969-S675	2440570.60	1969 Dec 15 0227	Black Brant IVA	-	AAF-4-20	Auroral particles	-	-	-	FC	-	-	-	774	-	-
1970-S65	2440600.70	1970 Jan 14 0441	Black Brant VB	-	AAF-VB-29	Auroral low elev.	-	-	-	FC	-	-	-	128	-	-
1970-S93	2440620.46	1970 Feb 2 2307:31	Black Brant VA	-	A-BBVA-23 (X1)	DLR A-BBV-23 Synove	-	-	-	AND	-	-	-	202	-	-
1970-S117	2440631.64	1970 Feb 14 0326:19	Black Brant VA	-	A-BBVA-24 (X2)	DLR A-BBV-24 Monica	-	-	-	AND	-	-	-	210	-	-
1970-S118	2440631.71	1970 Feb 14 0501:50	Black Brant VA	-	A-BBVA-25 (X3)	DLR A-BBV-25 Evelyn	-	-	-	AND	-	-	-	223	-	-
1970-S140	2440641.80	1970 Feb 24 0719	Black Brant IVA	-	AAD-4-23	VLF/Particles	-	-	-	FC	-	-	-	796	-	-
1970-S197	2440651.59	1970 Mar 6 0212:50	Black Brant VA	-	A-BBVA-27	DLR A-BBV-27 Chr'ine	-	-	-	AND	-	-	-	217	-	-
1970-S232	2440653.59	1970 Mar 8 0203:20	Black Brant VA	-	-	DLR A-BBV-26 Inger	-	-	-	AND	-	-	-	161	-	-
1970-S247	2440661.07	1970 Mar 15 1335	Black Brant IVA	-	-	DLR A-BB4-28 Eva	-	-	-	AND	-	-	-	650	-	-
1970-S248	2440663.61	1970 Mar 18 0245	Black Brant IVA	-	-	DLR A-BB4-29 Gerda	-	-	-	AND	-	-	-	665	-	-
1970-S283	2440681.23	1970 Apr 4 1728:01	Black Brant VC	-	CRL A18.903-3	EUV	-	-	-	EGL	-	-	-	354	-	-
1970-M21	2440698.84	1970 Apr 22 0811	Black Brant II	-	AEF-2-121	-	-	-	-	FC	-	-	-	75	-	-
1970-S329	2440700.54	1970 Apr 24 0052	Black Brant VB	-	AMD-VB-25	-	-	-	-	FC	-	-	-	288	-	-
1970-S486	2440814.66	1970 Aug 16 0356	Black Brant VB	-	AAD-VB-31	E fields ,electrons	-	-	-	FC	-	-	-	260	-	-
1970-M24	2440819.55	1970 Aug 21 0117	Black Brant IVA	-	CRL A16.010-03	Propagation	-	-	-	FC	-	-	-	56	-	-
1970-S535	2440854.63	1970 Sep 25 0310	Black Brant IVA	-	NASA 19.02NE	-	-	-	-	CLBI	-	-	-	600?	-	-
1970-S539	2440858.62	1970 Sep 29 0300	Black Brant IVA	-	NASA 19.03NE	-	-	-	-	CLBI	-	-	-	600?	-	-
1970-S636	2440928.40	1970 Dec 7 2134	Black Brant IVA	-	AKF-4A-19	Twilight airglow	-	-	-	CLBI	-	-	-	770	-	-
1970-S643	2440934.92	1970 Dec 14 1002	Black Brant VB	-	AAD-VB-30	Geminids	-	-	-	FC	-	-	-	340	-	-
1971-S63	2440965.34	1971 Jan 13 2010	Black Brant II	-	ADD-2-124	O2 profile	-	-	-	FC	-	-	-	146	-	-
1971-S73	2440972.61	1971 Jan 21 0232	Black Brant VB	-	AKD-VB-27	Auroral	-	-	-	FC	-	-	-	258	-	-
1971-S81	2440974.70	1971 Jan 23 0444	Black Brant VB	-	ADD-VB-24	Auroral VUV	-	-	-	FC	-	-	-	375	-	-
1971-S92	2440978.22	1971 Jan 26 1723	Black Brant VB	-	AMD-VB-26	Airglow	-	-	-	FC	-	-	-	282	-	-
1971-S115	2440988.45	1971 Feb 5 2246	Black Brant IVB	-	AKF-4B-24	Impedance dipole	-	-	-	FC	-	-	-	784	-	-
1971-S125	2441002.64	1971 Feb 20 0323:05	Black Brant IVA	-	AKF-4A-18	Auroral emissions	-	-	-	FC	-	-	-	785	-	-
1971-S132	2441007.55	1971 Feb 25 0113:00	Black Brant VB	-	NRL NF9.?	Airglow/FIR BG	-	-	-	WI	-	-	-	275	-	-
1971-S146	2441013.79	1971 Mar 3 0652	Black Brant VB	-	AAF-VB-32	Electrons/ions	-	-	-	FC	-	-	-	275	-	-
1971-S192	2441030.83	1971 Mar 20 0753	Black Brant II	-	AHF-2-115	Auroral VUV	-	-	-	FC	-	-	-	151	-	-
1971-S204	2441034.73	1971 Mar 24 0526	Black Brant VC	-	CRL A18.006-3	Airglow/Auroral IR	-	-	-	FC	-	-	-	366	-	-
1971-S323	2441110.32	1971 Jun 7 1935	Black Brant IVA	-	CRL A16.108-1	VLF Propagation	-	-	-	FC	-	-	-	800	-	-
1971-S372	2441154.17	1971 Jul 21 1600	Black Brant VC	-	NASA 21.04GT	-	-	-	-	WI	-	-	-	174	-	-
1972-S40	2441331.75	1972 Jan 15 0601	Black Brant VB	-	AAF-VB-33	[Not in FC]	-	-	-	FC	-	-	-	300	-	-
1972-S41	2441331.75	1972 Jan 15 0604	Black Brant IVB	-	AAF-4B-25	[Not in FC]	-	-	-	FC	-	-	-	800	-	-
1972-S52	2441344.26	1972 Jan 27 1816	Black Brant VC	-	NASA 21.06GT	MSFC RR-1	-	-	-	WI	-	-	-	232	-	-
1972-S63	2441351.08	1972 Feb 3 1355	Black Brant VC	-	N-BB/V-42	DLR N-BBV-42	-	-	-	CLBI	-	-	-	250?	-	-
1972-S78	2441361.50	1972 Feb 14	Black Brant VB	-	-	[Not in FC]	-	-	-	FC	-	-	-	309	-	-
1972-S79	2441362.66	1972 Feb 15 0348	Black Brant II	-	ADD-2-114	Auroral VUV	-	-	-	FC	-	-	-	133	-	-
1972-S105	2441384.94	1972 Mar 8 1032:53	Black Brant VC	-	N-BB/V-41	DLR N-BBV-41	-	-	-	CLBI	-	-	-	223	-	-
1972-S117	2441392.93	1972 Mar 16 1016	Black Brant VA	-	CRL A17.110-3	ICECAP 72	-	-	-	PF	-	-	-	145	-	-
1972-S135	2441400.91	1972 Mar 24 0944	Black Brant VB	-	AED-VB-28	Nightglow	-	-	-	FC	-	-	-	193	-	-
1972-S149	2441412.74	1972 Apr 5 0546	Black Brant VC	-	CRL A18.109-1	E Field/Particles	-	-	-	FC	-	-	-	247	-	-
1972-S197	2441454.79	1972 May 17 0700	Black Brant IVB	-	APF-4B-26	X-ray survey	-	-	-	FC	-	-	-	660	-	-
1972-S230	2441469.43	1972 May 31 2225	Black Brant VC	-	NASA 21.01US	-	-	-	-	WS	LC36	-	-	207	-	-
1972-S234	2441477.73	1972 Jun 9 0525	Black Brant VC	-	NASA 21.08UG	-	UCB 0.15m UVT/EUV	-	-	WS	LC36	-	-	255	-	-
1972-A77	2441514.22	1972 Jul 15 1712	Black Brant VB	-	CRL A18.903-4	RM-52 EUV	-	-	-	EGL	-	-	-	7	-	-
1972-S312	2441585.09	1972 Sep 24 1405	Black Brant VA	-	CRL A17.110-2	Auroral D/E region	-	-	-	FC	-	-	-	127	-	-
1972-S315	2441585.61	1972 Sep 25 0240	Black Brant VC	-	NASA 21.05UE	ECHO II	-	-	-	FC	-	-	-	256	-	-
1972-S319	2441586.31	1972 Sep 25 1924	Black Brant VA	-	CRL A17.110-1	Auroral D/E region	-	-	-	FC	-	-	-	126	-	-
1972-S340	2441601.62	1972 Oct 11 0300	Black Brant VA	-	NRL NF9.250	Auroral IR	-	-	-	FC	-	-	-	144	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S362	2441615.22	1972 Oct 24 1720	Black Brant VB	-	NASA 21.20GT	CALROC Test	-	-	-	WS	LC36	-	-	282	-	-
1972-S387	2441623.69	1972 Nov 2 0427	Black Brant VC	-	NASA 21.02UI	-	-	-	-	FC	-	-	-	237	-	-
1972-S415	2441656.79	1972 Dec 5 0700	Black Brant VC	-	CRL A18.006-5	Auroral IR	-	-	-	FC	-	-	-	194	-	-
1973-S24	2441705.47	1973 Jan 22 2310	Black Brant VC	-	NASA 21.09GT-US	-	-	-	-	WS	LC36	-	-	277	-	-
1973-S37	2441711.71	1973 Jan 29 0502	Black Brant IVB	-	AAF-4B-27	-	-	-	-	FC	-	-	-	760	-	-
1973-S53	2441715.11	1973 Feb 1 1433:30	Black Brant VC	-	-	DLR N-BBVC-52	-	-	-	CLBI	-	-	-	308	-	-
1973-S55	2441715.76	1973 Feb 2 0620	Black Brant VB	-	AAF-VB-36	Auroral substorm	-	-	-	FC	-	-	-	335	-	-
1973-S57	2441716.50	1973 Feb 3	Black Brant VC	-	-	DLR N-BBVC-50?	-	-	-	CLBI	-	-	-	97	-	-
1973-S63	2441721.09	1973 Feb 7 1409	Black Brant VC	-	-	DLR N-BBVC-54	-	-	-	CLBI	-	-	-	211	-	-
1973-S65	2441722.62	1973 Feb 9 0253	Black Brant IVB	-	AAF-4B-28	-	-	-	-	FC	-	-	-	760	-	-
1973-S66	2441723.67	1973 Feb 10 0408	Black Brant VC	-	NASA 21.16UG	-	UCB EUV Phot/XR PC	-	-	WS	LC36	-	-	216	-	-
1973-S70	2441729.72	1973 Feb 16 0516:00	Black Brant VC	-	-	DLR N-BBVC-53	-	-	-	CLBI	-	-	-	315	-	-
1973-S84	2441739.64	1973 Feb 26 0323	Black Brant II	-	ADD-2-127	Auroral VUV	-	-	-	FC	-	-	-	132	-	-
1973-S115	2441764.01	1973 Mar 22 1212	Black Brant VC	-	CRL A18.006-2	-	-	-	-	PF	-	-	-	183	-	-
1973-S121	2441768.90	1973 Mar 27 0937:45	Black Brant VC	-	CRL A18.205-1	-	-	-	-	PF	-	-	-	181	-	-
1973-S141	2441776.22	1973 Apr 3 1720	Black Brant VC	-	NASA 21.11DS-NP	NRL CALROC 1	-	-	-	WS	LC36	-	-	245	-	-
1973-S167	2441815.03	1973 May 12 1241:00	Black Brant VC	-	A-BBVC-51	DLR A-BBVC-51 Erna	-	-	-	AND	-	-	-	305	-	-
1973-S168	2441818.89	1973 May 16 0919	Black Brant VB	-	AAF-VB-37	Tower mod test	-	-	-	FC	-	-	-	301	-	-
1973-S169	2441821.17	1973 May 18 1600	Black Brant VC	-	NASA 21.19US-GT	-	-	-	-	WS	LC36	-	-	267	-	-
1973-S194	2441838.22	1973 Jun 4 1710	Black Brant VC	-	NASA 21.21NP-US	HCO CALROC 1	-	-	-	WS	LC36	-	-	132?	-	-
1973-S201	2441847.23	1973 Jun 13 1738	Black Brant VC	-	NASA 21.12DS-NP	NRL CALROC 2	-	-	-	WS	LC36	-	-	241	-	-
1973-S205	2441854.94	1973 Jun 21 1030	Black Brant IVB	-	APF-4B-30	Galactic X-rays	-	-	-	KAU	-	-	-	686	-	-
1973-S229	2441867.64	1973 Jul 4 0327:11	Black Brant VC	-	A-BBVC-49	DLR A-BBVC-49 Barbara	-	-	-	AND	-	-	-	260	-	-
1973-S270	2441903.50	1973 Aug 9	Black Brant IVB	-	NASA 19.07GT	-	-	-	-	WI	-	-	-	250?	-	-
1973-S272	2441904.23	1973 Aug 9 1730:58	Black Brant VC	-	NASA 21.22NP-US	HCO CALROC 2	-	-	-	WS	LC36	-	-	269	-	-
1973-S273	2441904.34	1973 Aug 9 2012	Black Brant IVB	-	CRL A16.000-01	HI Rate Midas Conv	-	-	-	WI	-	-	-	605	-	-
1973-S288	2441925.21	1973 Aug 30 1701	Black Brant VC	-	NASA 21.07US	-	-	-	-	WS	LC36	-	-	299	-	-
1973-S295	2441930.20	1973 Sep 4 1645	Black Brant VC	-	NASA 21.13DS-NP	NRL CALROC 3	-	-	-	WS	LC36	-	-	235	-	-
1973-S365	2441979.63	1973 Oct 24 0305	Black Brant IVA	-	CRL A16.313-01	VLF Propagation	-	-	-	EGL	-	-	-	609	-	-
1973-S367	2441980.63	1973 Oct 25 0307	Black Brant IVA	-	CRL A16.313-02	VLF Propagation	-	-	-	EGL	-	-	-	600	-	-
1973-S402	2442009.40	1973 Nov 22 2129	Black Brant IVB	-	-	-	-	-	-	CLBI	-	-	-	650	-	-
1973-S406	2442012.45	1973 Nov 25 2247	Black Brant VA	-	AMF-VA-40	-	-	-	-	FC	-	-	-	103	-	-
1973-S409	2442014.13	1973 Nov 27 1506:33	Black Brant IVA	-	NASA 19.08UA	Skylab Ba+	-	-	-	PF	-	-	-	552	-	-
1973-S418	2442021.14	1973 Dec 4 1520:33	Black Brant IVA	-	NASA 19.09UA	Skylab Ba+	-	-	-	PF	-	-	-	570	-	-
1973-S433	2442027.30	1973 Dec 10 1910	Black Brant VC	-	NASA 21.23NP-US	HCO CALROC 3	-	-	-	WS	LC36	-	-	269	-	-
1974-S59	2442063.33	1974 Jan 15 2000	Black Brant VC	-	NASA 21.14DS-NP	NRL CALROC 4	-	-	-	WS	LC36	-	-	234	-	-
1974-S74	2442070.75	1974 Jan 23 0606	Black Brant VB	-	AMD-VB-34	-	-	-	-	FC	-	-	-	208	-	-
1974-S93	2442085.45	1974 Feb 6 2248:57	Black Brant IVB	-	ESRO D-101	DLR A-BB4-63	-	-	-	AND	-	-	-	548	-	-
1974-S100	2442092.42	1974 Feb 13 2201	Black Brant IVB	-	AAF-4B-31	-	-	-	-	FC	-	-	-	638	-	-
1974-S101	2442092.75	1974 Feb 14 0607	Black Brant VC	-	CRL A18.006-4	CVF	-	-	-	PF	-	-	-	200	-	-
1974-S113	2442099.89	1974 Feb 21 0916	Black Brant VC	-	CRL A18.116-1	HIRIS	-	-	-	PF	-	-	-	180	-	-
1974-S114	2442100.71	1974 Feb 22 0459	Black Brant II	-	ADD-2A-128	Auroral VUV	-	-	-	FC	-	-	-	131	-	-
1974-S118	2442103.82	1974 Feb 25 0738	Black Brant VC	-	CRL A18.219-1	MUTI	-	-	-	PF	-	-	-	195	-	-
1974-S120	2442105.26	1974 Feb 26 1817	Black Brant VC	-	NASA 21.18US	CU-He1 + LPSP-EUV3	-	-	-	WS	LC36	-	-	98	-	-
1974-S121	2442106.62	1974 Feb 28 0253	Black Brant VB	-	AKF-VB-39	ISIS-2 pass	-	-	-	FC	-	-	-	246	-	-
1974-S153	2442135.58	1974 Mar 29 0200:01	Black Brant IVB	-	-	EQUION	-	-	-	CHI	-	-	-	742	-	-
1974-S175	2442154.93	1974 Apr 17 1023	Black Brant VC	-	NASA 21.26UE	ECHO III	-	-	-	PF	-	-	-	275	-	-
1974-S219	2442213.72	1974 Jun 15 0515	Black Brant VC	-	NASA 21.17UG	-	UCB EUV?/XR	-	-	WS	LC36	-	-	187	-	-
1974-S240	2442228.34	1974 Jun 29 2016	Black Brant VC	-	NASA 21.28IA	Aladdin 74	-	-	-	WI	-	-	-	234	-	-
1974-S338	2442325.18	1974 Oct 4 1616	Black Brant VC	-	NASA 21.15GP	-	-	-	-	WS	LC36	-	-	227	-	-
1974-S388	2442376.84	1974 Nov 25 0810	Black Brant VC	-	NASA 21.31UG	-	UCB EUV Photom/XR	-	-	WS	LC36	-	-	184	-	-
1974-S402	2442388.48	1974 Dec 6 2332:06	Black Brant VB	-	AMF-VB-41	Cusp	-	-	-	CP	-	-	-	245	-	-
1974-S409	2442393.45	1974 Dec 11 2248	Black Brant IVB	-	AAF-4B-32	-	-	-	-	CP	-	-	-	600?	-	-
1974-S418	2442398.95	1974 Dec 17 1055	Black Brant IVB	-	ESRO D-102A?	DLR G-BB4-64 PolCusp	-	-	-	SSG	MORABA	-	-	280	-	-
1974-A57	2442399.96	1974 Dec 18 1104	Black Brant IVB	-	-	DLR G-BB4-65 PolCusp	-	-	-	SSG	MORABA	-	-	0?	-	-
1975-S31	2442419.49	1975 Jan 6 2349:02	Black Brant IVB	-	Tordo I	Periquito	-	-	-	CP	-	-	-	540	-	-
1975-S33	2442423.52	1975 Jan 11 0025:02	Black Brant IVB	-	Tordo II	Periquito	-	-	-	CP	-	-	-	540	-	-
1975-S35	2442423.95	1975 Jan 11 1053	Black Brant IVB	-	-	DLR G-BB4-66	-	-	-	SSG	MORABA	-	-	280	-	-
1975-S44	2442433.27	1975 Jan 20 1830	Black Brant VC	-	NASA 21.24US	CU-He2 + LPSP-EUV4	-	-	-	WS	LC36	-	-	279	-	-
1975-S52	2442442.59	1975 Jan 30 0215	Black Brant VB	-	AED-VB-43	-	-	-	-	FC	-	-	-	244	-	-
1975-S226	2442615.15	1975 Jul 21 1531	Black Brant VC	-	NASA 21.25DS	HRTS-1	-	-	-	WS	LC36	-	-	220	-	-
1975-S233	2442622.24	1975 Jul 28 1744	Black Brant VC	-	NASA 21.29US	-	-	-	-	WS	LC36	-	-	278	-	-
1975-S327	2442742.49	1975 Nov 25 2339:18	Black Brant IVB	-	AEC-IVA-03	Periquito	-	-	-	CP	-	-	-	500	-	-
1975-S330	2442745.49	1975 Nov 28 2339:18	Black Brant IVB	-	AEC-IVA-04	Periquito	-	-	-	CP	-	-	-	500	-	-
1975-S350	2442758.18	1975 Dec 11 1615	Black Brant VC	-	NASA 21.32NP	SPAR 1	-	-	-	WS	LC36	-	-	225	-	-
1976-S55	2442788.09	1976 Jan 10 1416:00	Black Brant VC	-	NASA 12.29GT-IT	SSC S19A	-	-	-	WI	LA5	-	-	290	-	-
1976-S64	2442797.57	1976 Jan 20 0142	Black Brant IVB	-	GL A16.501-01	VLF	-	-	-	FC	-	-	-	632	-	-
1976-S88	2442808.78	1976 Jan 31 0644:10	Black Brant VC	-	NASA 21.27UE	ECHO IV	-	-	-	PF	-	-	-	225	-	-
1976-M07	2442810.59	1976 Feb 2 0208:30	Black Brant VB	-	AAF-VB-35	-	-	-	-	FC	-	-	-	55	-	-
1976-S93	2442813.72	1976 Feb 5 0522	Black Brant IVB	-	AAF-4B-33	-	-	-	-	FC	-	-	-	730	-	-
1976-S104	2442827.24	1976 Feb 18 1740	Black Brant VC	-	NASA 21.30US-IS	OSO-I Cal	-	-	-	WS	LC36	-	-	282	-	-
1976-A16	2442847.88	1976 Mar 10 0910	Black Brant IVB	-	Astro 6-1	DLR H-BB4-74	INTA BB4-BAC-7601	-	-	ELAR	-	-	-	0?	-	-
1976-S156	2442868.78	1976 Mar 31 0639	Black Brant VC	-	NASA 21.03UI	-	-	-	-	FC	-	-	-	231	-	-
1976-S184	2442916.17	1976 May 17 1600	Black Brant VC	-	NASA 21.33NP	SPAR 2	-	-	-	WS	LC36	-	-	188	-	-
1976-S186	2442921.90	1976 May 23 0930	Black Brant VC	-	NASA 21.48NP	SFHe Experiment	-	-	-	KAU	-	-	-	196	-	-
1976-S214	2442956.87	1976 Jun 27 0858	Black Brant IVB	-	Astro 6-2	DLR H-BB4B-76	INTA BB4-BAC-7602	-	-	ELAR	-	-	-	700	-	-
1976-S305	2443074.12	1976 Oct 22 1500	Black Brant VC	-	NASA 21.36DS	-	-	-	-	WS	LC36	-	-	239	-	-
1976-S321	2443092.02	1976 Nov 9 1232	Black Brant VB	-	APD-VB-42	Cosmic rays	-	-	-	WOO	-	-	-	215	-	-
1976-S348	2443127.32	1976 Dec 14 1935	Black Brant VC	-	NASA 21.34NP	SPAR 3	-	-	-	WS	LC36	-	-	174	-	-
1977-S35	2443150.82	1977 Jan 7 0745	Black Brant VB	-	AED-VB-46	-	-	-	-	FC	-	-	-	261	-	-
1977-S38	2443156.68	1977 Jan 13 0422	Black Brant VA	-	AAD-VA-45	Auroral UV/IR	-	-	-	FC	-	-	-	152	-	-
1977-S41	2443158.57	1977 Jan 15 0140	Black Brant VC	-	NASA 21.49UL	Colo. microchannel	-	-	-	WS	LC36	-	-	268	-	-
1977-S103	2443210.67	1977 Mar 8 0401	Black Brant IVB	-	AAF-4B-34	Pitch angles	-	-	-	FC	-	-	-	700	-	-
1977-S105	2443212.19	1977 Mar 9 1640	Black Brant VC	-	NASA 21.41US	-	-	-	-	WS	LC36	-	-	191	-	-
1977-S124	2443223.77	1977 Mar 21 0622	Black Brant VB	-	AND-VB-44	Gush CMB 4	-	-	-	FC	-	-	-	178	-	-
1977-S148	2443249.71	1977 Apr 16 0500	Black Brant VC	-	NASA 21.54UG	JHU FOT 1	-	-	-	WS	LC36	-	-	136	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S197	2443304.63	1977 Jun 10 0306:19	Black Brant VC	-	DLR H-BBV-84	Heatpipe 2	INTA BB5-BAC-7701	-	-	ELAR	-	-	-	322	-	-
1977-S204	2443316.17	1977 Jun 21 1600	Black Brant VC	-	NASA 21.45NP	SPAR 4	-	-	-	WS	LC36	-	-	179	-	-
1977-S315	2443378.50	1977 Aug 23	Black Brant IVB	?	Equatorial Wideband	-	-	-	-	KMR	RN	-	-	160	-	-
1978-S66	2443549.73	1978 Feb 10 0530	Black Brant VB	-	NASA 21.56UG	JHU FOT 2	-	-	-	WS	LC36	-	-	238	-	-
1978-S70	2443553.22	1978 Feb 13 1715	Black Brant VC	-	NASA 21.42DS	HRTS 2	-	-	-	WS	LC36	-	-	210	-	-
1978-S76	2443566.73	1978 Feb 27 0530	Black Brant IVB	-	AAF-4B-35	-	-	-	-	FC	-	-	-	785	-	-
1978-S110	2443610.57	1978 Apr 12 0143	Black Brant VA	-	ADD-VA-49	O/Ozone profile	-	-	-	FC	-	-	-	140	-	-
1978-S206	2443763.17	1978 Sep 11 1600:00	Black Brant VC	-	NASA 21.46NP	SPAR 5	-	-	-	WS	LC36	-	-	165	-	-
1978-S255	2443857.58	1978 Dec 15 0157	Black Brant VB	-	APD-VB-47	-	-	-	-	FC	-	-	-	316	-	-
1979-S47	2443901.22	1979 Jan 27 1712:32	Black Brant VC	-	SSC S23-L1	Substorm-GEOS	-	-	-	ESR	MAN/MRL?	-	-	267	-	-
1979-S50	2443901.41	1979 Jan 27 2152:20	Black Brant VC	-	SSC S23-L2	Substorm-GEOS	-	-	-	ESR	MAN/MRL?	-	-	266	-	-
1979-S73	2443931.20	1979 Feb 26 1650:45	Black Brant VA	-	AMF-VA-51	-	-	-	-	RLAKE	COCH	-	-	132	-	-
1979-S87	2443933.91	1979 Mar 1 0944	Black Brant VC	-	NASA 21.60DS	HRTS 3	-	-	-	WS	LC36	-	-	210	-	-
1979-S154	2444053.84	1979 Jun 29 0815	Black Brant VB	-	NASA 21.59UG	JHU FOT 3	-	-	-	WS	LC36	-	-	238	-	-
1979-S182	2444093.33	1979 Aug 7 1950	Black Brant VC	-	GL A18.805	POSTBO	-	-	-	WS	LC36	-	-	219	-	-
1979-S205	2444137.38	1979 Sep 20 2100	Black Brant VC	-	NASA 21.57UL	-	-	-	-	WS	LC36	-	-	278	-	-
1979-S213	2444143.98	1979 Sep 27 1130	Black Brant VC	-	NASA 21.62GS	-	-	-	-	WS	LC36	-	-	247	-	-
1979-S251	2444224.77	1979 Dec 17 0627	Black Brant VA	-	ADD-VA-48	-	-	-	-	FC	-	-	-	138	-	-
1980-S43	2444284.99	1980 Feb 15 1143:24	Black Brant VB	-	ADD-VB-50	Pulsating aurora	-	-	-	SEND	-	-	-	156	-	-
1980-S57	2444292.92	1980 Feb 23 1005:09	Black Brant VB	-	ADD-VB-52	Pulsating aurora	-	-	-	SEND	-	-	-	148	-	-
1980-S178	2444513.26	1980 Sep 30 1816	Black Brant VC	-	NASA 21.65UL	-	-	-	-	WS	LC36	-	-	281	-	-
1981-S51	2444623.65	1981 Jan 19 0337:27	Black Brant VB	-	AED-VB-54	Upper Atm Compos.	-	-	-	FC	-	-	-	263	-	-
1981-S55	2444630.81	1981 Jan 26 0720:06	Black Brant IVB	-	AAF-4B-36	Substorm	-	-	-	FC	-	-	-	584	-	-
1981-S88	2444691.58	1981 Mar 28 0154:06	Black Brant VB	-	AAF-VB-55	FALCONS	-	-	-	FC	-	-	-	327	-	-
1981-S87	2444691.58	1981 Mar 28 0154	Black Brant IVB	-	AAF-4B-37	FALCONS	-	-	-	FC	-	-	-	675	-	-
1981-S110	2444751.68	1981 May 27 0425	Black Brant VC	-	NASA 21.67UG	JHU FOT 4 (Io)	-	-	-	WS	LC36	-	-	225	-	-
1981-S158	2444877.50	1981 Sep 30	Black Brant VC	-	NASA 21.63GS	-	-	-	-	WS	LC36	-	-	243	-	-
1981-S176	2444945.47	1981 Dec 6 2314:58	Black Brant IVB	-	AAF-4B-38	CENTAUR	-	-	-	CP	-	-	-	615	-	-
1981-M17	2444952.40	1981 Dec 13 2131:38	Black Brant IVB	-	AAF-4B-39	CENTAUR	-	-	-	CP	-	-	-	50	-	-
1982-S167	2445228.26	1982 Sep 15 1815	Black Brant VC	-	AMF-VC-53	-	-	-	-	WS	LC36	-	-	243	-	-
1982-S186	2445274.84	1982 Nov 1 0816	Black Brant VC	-	NASA 21.69UH	MIT WFSXC 2	-	-	-	WS	LC36	-	-	210	-	-
1982-S187	2445283.24	1982 Nov 9 1745	Black Brant VB	-	NASA 21.64GS	EUV line profiles	-	-	-	WS	LC36	-	-	233	-	-
1982-S198	2445316.93	1982 Dec 13 1020	Black Brant VC	-	NASA 21.74UG	JHU UVT F10	-	-	-	WS	LC36	-	-	232	-	-
1983-S67	2445401.17	1983 Mar 7 1600	Black Brant VC	-	NASA 21.84DS	HRTS 4	-	-	-	WS	LC36	-	-	200	-	-
1983-S111	2445496.84	1983 Jun 11 0810	Black Brant VC	-	ADD-VC-56	OASIS	-	-	-	WS	LC36	-	-	180	-	-
1983-S146	2445554.75	1983 Aug 8 0600	Black Brant VB	-	-	CHARGE-1 (TPE-3)	-	-	-	WS	-	-	-	218	-	-
1984-S64	2445754.36	1984 Feb 23 2034:47	Black Brant VB	-	NASA 21.86UE	-	-	-	-	FC	-	-	-	189	-	-
1984-S69	2445762.69	1984 Mar 3 0440	Black Brant VB	-	NASA 21.85UG	JHU UVT F11	-	-	-	WS	LC36	-	-	206	-	-
1984-S101	2445905.95	1984 Jul 24 1040:50	Black Brant VB	-	NASA 21.91GE	GSFC M/DTR	-	-	-	WI	-	-	-	98?	-	-
1984-S126	2445998.21	1984 Oct 24 1658:20	Black Brant VC	-	SSC S38	TOR	-	-	-	ESR	MRL	-	-	188	-	-
1985-S59	2446142.87	1985 Mar 18 0850	Black Brant VC	-	NASA 21.70UH	MIT WFSXC 3	-	-	-	WS	LC36	-	-	213	-	-
1985-S87	2446230.80	1985 Jun 14 0715	Black Brant VB	-	NASA 21.81UG	JHU FOT 5 Io	-	-	-	WS	LC36	-	-	238	-	-
1985-A05	2446281.42	1985 Aug 3 2200:08	Black Brant VB	-	NASA 21.94CS	SL2 Coordinated?	-	-	-	WS	LC36	-	-	10?	-	-
1986-S25	2446488.00	1986 Feb 26 1202	Black Brant VB	-	NASA 21.93UG	JHU FOT 6 Halley	-	-	-	WS	LC35?	-	-	229	-	-
1986-S31	2446502.97	1986 Mar 13 1120	Black Brant VB	-	NASA 21.95UG	JHU FOT 7 Halley	-	-	-	WS	LC36	-	-	231	-	-
1988-S79	2447260.53	1988 Apr 9 0040:52	Black Brant VB	-	NASA 21.97GE	ERRRIS I	-	-	-	ESR	MAN/MRL?	-	-	128	-	-
1988-S134	2447473.29	1988 Nov 7 1902	Black Brant VC	-	NASA 21.98IE	NEED I (F-79)	-	-	-	AND	-	-	-	322	-	-
1988-S135	2447476.29	1988 Nov 10 1900	Black Brant VC	-	NASA 21.101UU	NCAR/CU-1	-	-	-	WS	LC36	-	-	250?	-	-
1989-S39	2447589.26	1989 Mar 3 1817:14	Black Brant VB	-	NASA 21.100GE	ERRRIS II	-	-	-	ESR	MAN/MRL?	-	-	124	-	-
1989-S40	2447589.54	1989 Mar 4 0102:47	Black Brant VC	-	NASA 21.96GE	ERRRIS II	-	-	-	ESR	MAN/MRL?	-	-	175	-	-
1989-S59	2447677.50	1989 May 31	Black Brant VC	-	-	(Site CE)	-	-	-	CEL	CE	-	-	250?	-	-
1989-S74	2447738.50	1989 Jul 31	Black Brant VC	-	SDIO Black Star 5	-	-	-	-	WI	-	-	-	250?	-	-
1989-S94	2447784.50	1989 Sep 15	Black Brant VC	-	SDIO Black Star 6	-	-	-	-	WI	-	-	-	250?	-	-
1990-S103	2448084.50	1990 Jul 12	Black Brant VC	-	-	-	-	-	-	CEL	CE	-	-	250?	-	-
1990-S139	2448177.35	1990 Oct 12 2028:38	Black Brant VC	-	NASA 21.102IE	NEED II (F-80)	-	-	-	AND	-	-	-	304	-	-
1990-S140	2448179.50	1990 Oct 15	Black Brant VC	-	-	-	-	-	-	CEL	CE	-	-	250?	-	-
1991-S132	2448469.56	1991 Aug 1 0128:20	Black Brant VB	-	NASA 21.103GE NLC-91	N-B-E03 EFIELD-B	-	-	-	ESR	-	-	-	99	-	-
1991-S135	2448478.48	1991 Aug 9 2330:20	Black Brant VB	-	NASA 21.104GE NLC-91	N-B-E16 EFIELD-A	-	-	-	ESR	-	-	-	101	-	-
1992-S57	2448796.52	1992 Jun 23 0024	Black Brant VC	-	NASA 21.105GE	EL COQUI NC-2	-	-	-	TORT	-	-	-	129	-	-
1994-S63	2449605.07	1994 Sep 9 1333:50	Black Brant VC	-	NASA 21.110GE	GUARA Electrojet	-	-	-	ALCA	-	-	-	120?	-	-
1994-S68	2449617.08	1994 Sep 21 1356:00	Black Brant VC	-	NASA 21.111GE	GUARA Electrojet	-	-	-	ALCA	-	-	-	120	-	-
1994-S76	2449632.06	1994 Oct 6 1322	Black Brant VC	-	NASA 21.112GE	GUARA Electrojet	-	-	-	ALCA	-	-	-	120?	-	-
1994-S78	2449641.07	1994 Oct 15 1341:31	Black Brant VC	-	NASA 21.113GE	GUARA Electrojet	-	-	-	ALCA	-	-	-	120?	-	-
1996-S75	2450247.50	1996 Jun 13	Black Brant VC	-	-	LAADEX	RIMPAC 96	-	-	KAU	-	-	-	180	-	-
1996-S53	2450325.23	1996 Aug 29 1738	Black Brant VC	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1997-S52	2450669.19	1997 Aug 8 1629	Black Brant VC	-	NASA 21.120NE	METEORS	-	-	-	WS	-	-	-	250?	-	-
1998-S17	2450864.51	1998 Feb 20 0009:02	Black Brant VC	-	NASA 21.117UE	Coqui Dos/SAL	-	-	-	TORT	-	-	-	115	-	-
1998-S18	2450864.53	1998 Feb 20 0037:43	Black Brant VC	-	NASA 21.119UE	Coqui Dos	-	-	-	TORT	-	-	-	150?	-	-
1998-S20	2450869.64	1998 Feb 25 0317:00	Black Brant VC	-	NASA 21.118UE	Coqui Dos	-	-	-	TORT	-	-	-	150?	-	-
1998-S27	2450879.56	1998 Mar 7 0133:07	Black Brant VC	-	NASA 21.114UE	Coqui Dos	-	-	-	TORT	-	-	-	250?	-	-
1998-S32	2450897.57	1998 Mar 25 0145:21	Black Brant VC	-	NASA 21.115UE	Coqui Dos	-	-	-	TORT	-	-	-	250?	-	-
1999-S03	2451201.14	1999 Jan 22 1520:17	Black Brant VB	-	NASA 21.121CE	-	-	-	-	PF	-	-	-	250?	-	-
1999-S43	2451364.67	1999 Jul 5 0357:57	Black Brant VC	-	NASA 21.116GE	-	-	-	-	WI	-	-	-	250?	-	-
1999-S45	2451365.48	1999 Jul 5 2336:30	Black Brant VA	-	NASA 21.123GE	MD-DR-04 DROPPS-1	-	-	-	AND	-	-	-	117	-	-
1999-S47	2451373.64	1999 Jul 14 0328:45	Black Brant VA	-	NASA 21.124GE	MD-DR-13 DROPPS-2	-	-	-	AND	-	-	-	118	-	-
1999-S49	2451387.41	1999 Jul 27 2147:50	Black Brant VB	-	NASA 21.122GE	ICON	-	-	-	ESR	-	-	-	104	-	-
2000-S61	2451843.91	2000 Oct 26 0957:00	Black Brant VC	-	NASA 21.126CE	TOMEX	-	-	-	WS	-	-	-	143	-	-
2001-S33	2452089.70	2001 Jun 29 0444:01	Black Brant VC	-	NASA 21.125GE	-	-	-	-	WI	-	-	-	250?	-	-
2002-S09	2452326.91	2002 Feb 21 0955:01	Black Brant VB	-	NASA 21.128UE	CODA	-	-	-	PF	-	-	-	250?	-	-
2003-S13	2452726.01	2003 Mar 27 1212:01	Black Brant VC	-	NASA 21.131UE	JOULE	-	-	-	PF	LC1	-	-	199	-	-
2004-S40	2453255.99	2004 Sep 7 1145:53	Black Brant VC	-	NASA 21.132GE	EQUIS II	-	-	-	KMR	-	-	-	114	-	-
2004-S45	2453265.83	2004 Sep 17 0800:45	Black Brant VC	-	NASA 21.133GE	EQUIS II	-	-	-	KMR	-	-	-	117	-	-
2007-S02	2454120.03	2007 Jan 19 1245:01	Black Brant VC	-	NASA 21.138UE	JOULE II	-	-	-	PF	-	-	-	217	-	-
2009-S04	2454860.91	2009 Jan 29 0951:11	Black Brant VC	-	NASA 21.139UE	ACES II	-	-	-	PF	-	-	-	133	-	-
2011-S28	2455753.08	2011 Jul 10 1400:00	Black Brant VC	-	NASA 21.141GE	Daytime Dynamo	-	-	-	WI	LA2 ARC	-	-	158	-	-
2013-S45	2456478.11	2013 Jul 4 1431:25	Black Brant VC	-	NASA 21.140GE	Daytime Dynamo	-	-	-	WI	LA2 ARC	-	-	135?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S51	2460555.90	2024 Sep 2 0941:00	Black Brant VC	-	BOLT-1B	BOLT-1B	-	-	-	AND	U3	-	-	254	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S162	2436817.14	1959 Sep 5 1527	Black Brant I	-	NRC BB-1-01	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	CASJ20,396	-
1959-S163	2436817.43	1959 Sep 5 2224	Black Brant I	-	NRC BB-1-02	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1959-S164	2436820.13	1959 Sep 8 1514	Black Brant I	-	NRC BB-1-03	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1959-S167	2436822.41	1959 Sep 10 2148	Black Brant I	-	NRC BB-1-04	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1960-S99	2437073.38	1960 May 18 2104	Black Brant I	-	NRC BB-1-05	0.000	CARDE	SF	U	CARDE/Delisle	Test	FC	-	-
1960-S104	2437079.24	1960 May 24 1744	Black Brant I	-	NRC BB-1-06	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1960-S110	2437083.27	1960 May 28 1827	Black Brant I	-	NRC BB-1-07	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1960-S284	2437200.78	1960 Sep 23 0640	Black Brant I	-	NRC BB-1-08	0.000	CARDE	SS	-	CARDE/Brereton	Aeron	FC	-	-
1960-S306	2437207.76	1960 Sep 30 0617	Black Brant I	-	NRC BB-1-09	0.000	CARDE	SS	-	CARDE/Brereton	Aeron	FC	-	-
1960-S312	2437216.11	1960 Oct 8 1445	Black Brant I	-	BB-1-11	0.000	CARDE	SS	-	DRTE/Heikkila	Auroral	FC	-	-
1960-S317	2437220.19	1960 Oct 12 1637	Black Brant II	-	CC-2A-13	0.000	CARDE	SS	-	CARDE/Brereton	Test	FC	-	-
1960-S318	2437220.39	1960 Oct 12 2127	Black Brant II	-	CC-2A-14	0.000	CARDE	SS	-	CARDE/Brereton	Test	FC	-	-
1960-S332	2437228.33	1960 Oct 20 1950	Black Brant I	-	BB-1-10	0.000	DRTE	SS	-	DRTE/	Ionos/Plasma	FC	-	-
1960-S339	2437236.01	1960 Oct 28 1221	Black Brant I	-	BB-1-12	0.000	DRTE	SS	-	DRTE/Heikkila	Ionos/Plasma	FC	SR2,1206	-
1963-S109	2438109.66	1963 Mar 21 0353	Black Brant I	-	CC-1-28	0.000	CARDE	SS	-	CARDE/Spindler	Aeron	FC	-	-
1963-S113	2438113.64	1963 Mar 25 0317	Black Brant I	-	CC-1-38	0.000	CARDE	SS	-	CARDE/Spindler	Aeron	FC	-	-
1963-S136	2438125.67	1963 Apr 6 0403	Black Brant I	-	AD-1-26	0.000	NRCC	SS	-	SASK/Budzinski	Auroral/Aeron/Ionos	WDCRF	-	-
1963-S137	2438125.81	1963 Apr 6 0725	Black Brant I	-	AD-1-23	0.000	NRCC	SS	-	SASK/Johnston	Auroral/Ionos/Field	WDCRF	-	-
1963-S189	2438157.35	1963 May 7 2030	Black Brant II	-	BB-2A-22	0.000	NRCC	SS	-	DRTE/Heikkila	Ionos	WDCRF	-	-
1963-S267	2438191.71	1963 Jun 11 0506	Black Brant II	-	BB-2A-21	0.000	NRCC	SS	-	DRTE/Heikkila	Ionos	WDCRF	-	-
1963-S297	2438205.29	1963 Jun 24 1900	Black Brant II	-	CC-2A-18	0.000	CARDE	SS	-	CARDE/Clarke	Test	FC	-	-
1963-S298	2438205.46	1963 Jun 24 2300	Black Brant II	-	CC-2A-17	0.000	CARDE	SS	-	CARDE/Clarke	Test	FC	-	-
1963-S347	2438231.38	1963 Jul 20 2105	Black Brant II	-	AB17.199	0.000	AFCRL	SS	-	UUT/AFCRL/Haycock,Ulw.	Eclipse	FC	MR630729,AFCRL2	-
1963-S362	2438237.39	1963 Jul 26 2119	Black Brant II	-	AC17.61	0.000	AFCRL	SS	-	UUT/AFCRL/Haycock, etc	Auroral/Ionos	FC	AFCRL2	-
1963-S488	2438316.73	1963 Oct 14 0534	Black Brant II	-	BB-2A-20	0.000	DRTE	SS	-	DRTE/Heikkila	Ionos/Auroral	FC	-	-
1963-S502	2438320.89	1963 Oct 18 0920	Black Brant II	-	CC-2A-39	0.000	CARDE	SS	-	CARDE/Spindler	Aeron	FC	-	-
1963-S518	2438328.58	1963 Oct 26 0200	Black Brant II	-	CC-2A-19	0.000	DRTE	SS	-	DRTE/Heikkila	Ionos/Auroral	FC	-	-
1963-S523	2438331.62	1963 Oct 29 0253	Black Brant II	-	CC-2A-40	0.000	CARDE	SS	-	CARDE/Spindler	Aeron	FC	-	-
1964-S22	2438403.72	1964 Jan 9 0522	Black Brant II	-	AA-2-41	0.000	NRCC	SS	-	ALB/McNamara	Auroral/Ionos/Micromet	WDCRF	-	-
1964-S30	2438408.75	1964 Jan 14 0605	Black Brant II	-	AA-2-25	0.000	NRCC	SS	-	ALB/McNamara	Auroral/Ionos/Micromet	WDCRF	-	-
1964-M02	2438411.81	1964 Jan 17 0721	Black Brant II	-	AD-2-42	0.000	NRCC	SS	-	SASK/Kavadas	Auroral/Ionos/Micromet	WDCRF	-	-
1964-S41	2438415.25	1964 Jan 20 1800	Black Brant II	-	CC-2A-29	0.000	CARDE	SS	-	CARDE/Clarke	Test	FC	-	-
1964-S42	2438415.39	1964 Jan 20 2115	Black Brant II	-	CC-2A-30	0.000	CARDE	SS	-	CARDE/Clarke	Test	FC	-	-
1964-S191	2438492.73	1964 Apr 7 0529	Black Brant II	-	AA-2A-43	0.000	NRCC	SS	-	NRCC/McNamara	Auroral/Ionos/Micromet	WDCRF	-	-
1964-S193	2438494.82	1964 Apr 9 0747	Black Brant II	-	AD-2A-44	0.000	NRCC	SS	-	SASK/Johnson	Auroral/Aeron/Ionos	ICRC9	FC	-
1964-S211	2438501.80	1964 Apr 16 0716	Black Brant II	-	AD-2A-36	0.000	NRCC	SS	-	SASK/Johnson	Ionos/Particles/Micromet	FC	-	-
1964-S213	2438502.53	1964 Apr 17 0044	Black Brant II	-	AF-2A-35/03	0.000	NRCC	SS	-	BAJ/Tough	Test/Ionos	WDCRF	-	-
1964-S705	2438571.36	1964 Jun 24 2034	Black Brant IVA	-	NRC FF-4-01	0.000	CARDE	SF	U	BAJ/Sevier	Test	FC	Bristol/FI650107-14	-
1964-S706	2438579.38	1964 Jul 2 2100	Black Brant IVA	-	NRC FF-4-02	0.000	CARDE	SF	U	BAJ/Sevier	Test	FC	FI650107-14	-
1964-A131	2438646.65	1964 Sep 8 0343	Black Brant II	-	AK-2A-59	0.000	NRCC	SF	U	ALB/Anger	Ionos	FC	-	-
1964-S467	2438653.79	1964 Sep 15 0659	Black Brant II	-	AD-2A-58	0.000	NRCC	SS	-	SASK/Johnson	Ionos	FC	-	-
1964-S504	2438675.35	1964 Oct 6 2020	Black Brant IIB	-	CC-2B-49	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1964-S506	2438676.27	1964 Oct 7 1835	Black Brant IIB	-	CC-2B-61	0.000	CARDE	SS	-	CARDE/Delisle	Test	FC	-	-
1964-S541	2438696.21	1964 Oct 27 1657	Black Brant II	-	AC17.606	0.000	AFCRL	SS	-	AFCRL/Smiddy,Ulwick	Ionos	AFCRL2	AFCRL	-
1964-S649	2438726.83	1964 Nov 27 0802	Black Brant II	-	AA-2A-37	0.000	NRCC	SS	-	NRCC/McNamara,Budzinski	Auroral/Ionos/Micromet	FC	-	-
1965-S44	2438783.41	1965 Jan 22 2146	Black Brant IVA	-	NRC FF-4-03	0.000	CARDE	SS	-	BAJ/Sevier	Test	FC	-	-
1965-S47	2438784.26	1965 Jan 23 1815	Black Brant IVA	-	NRC FF-4-04	0.000	CARDE	SS	-	BAJ/Sevier	Test	FC	-	-
1965-S48	2438786.17	1965 Jan 25 1600	Black Brant IIB	-	CC-2B-48	0.000	NRCC	SS	-	BAJ/Delisle	Test	FC	-	-
1965-A13	2438786.37	1965 Jan 25 2053	Black Brant IIB	-	CC-2B-56	0.000	NRCC	SF	U	BAJ/Delisle	Test	FC	-	-
1965-S167	2438837.40	1965 Mar 17 2130	Black Brant II	-	AE-2A-24	0.000	NRCC	SS	-	UTOR/deLeeuw	Aeron	FC	-	-
1965-S175	2438838.77	1965 Mar 19 0624	Black Brant II	-	AA-2A-52	0.000	NRCC	SS	-	SASK/Johnson	Fields	WDCRF	-	-
1965-S186	2438842.78	1965 Mar 23 0640	Black Brant II	-	AA-2A-53	0.000	NRCC	SS	-	NRCC/McNamara	Fields	ICRC9	SR6,981	-
1965-S192	2438843.74	1965 Mar 24 0544	Black Brant II	-	AA-2A-60	0.000	NRCC	SS	-	NRCC/McNamara	Ionos/Micromet	ICRC9	SR6,981	-
1965-A76	2438908.50	1965 May 27 2356	Black Brant II	-	BB-2A-51	0.000	NRCC	SF	U	DRTE/Mathews	Ionos	WDCRF	-	-
1965-S338	2438914.10	1965 Jun 2 1419	Black Brant II	-	BB-2A-50	0.000	NRCC	SS	-	DRTE/Mathews	Auroral/Ionos	FC	-	-
1965-S354	2438924.30	1965 Jun 12 1914	Black Brant VB	-	FF-VB-01	0.000	BAL	SS	-	BAJ/Tough	Test	FC	MR650628-10	-
1965-S365	2438930.17	1965 Jun 18 1612	Black Brant VB	-	FF-VB-02	0.000	BAL	SS	-	BAJ/Tough	Test	FC	MR650628-10	-
1965-S496	2439020.46	1965 Sep 16 2305	Black Brant VB	-	VB-03	0.000	AFCRL	SS	-	AFCRL/Hoult	Test	Chesser	SRCON1-280	-
1966-S192	2439210.80	1966 Mar 26 0707	Black Brant II	-	AA-2A-103	0.000	NRCC	SS	-	NRCC/McNamara,McDiarmid	Auroral/Solar UV	WDCRF	-	-
1966-S196	2439214.68	1966 Mar 30 0419	Black Brant II	-	AK-2A-104	0.000	NRCC	SS	-	NRCC/McNamara,Anger	Auroral/Ionos/Plasm	WDCRF	-	-
1966-S445	2439354.65	1966 Aug 17 0339	Black Brant VB	-	ALF-VB-08	0.000	MPE	SS	-	MPE/Neuss,Haerendel	Aeron Ba	WDCRF	-	-
1966-S449	2439356.82	1966 Aug 19 0744	Black Brant VB	-	ALF-VB-09	0.000	MPE	SS	-	MPE/Neuss,Haerendel	Aeron Ba	FC	-	-
1966-S510	2439397.26	1966 Sep 28 1816	Black Brant II	-	CRL AC17.604D	0.000	AFCRL	SS	-	AFCRL/UUT/Ulwick,Baker	Ionos	AFCRL2	-	-
1966-S634	2439448.51	1966 Nov 19 0010	Black Brant II	-	AAD-2A-106	0.000	NRCC	SS	-	SASK/McNamara,Miller	Auroral/Ion/Field	AnnalesGeo24,305	-	-
1966-S661	2439458.76	1966 Nov 29 0608	Black Brant IVA	-	AAF-4-05	0.000	NRCC	SS	-	NRCC/Budzinski	Plasma/Fields	WDCRF	-	-
1966-S689	2439475.15	1966 Dec 15 1532	Black Brant IVA	-	AAF-4-08	0.000	NRCC	SS	-	BAL/Sevier	Test	FC	-	-
1966-S691	2439475.40	1966 Dec 15 2132	Black Brant IVA	-	AAF-4-07	0.000	NRCC	SS	-	BAL/Sevier	Test	FC	-	-
1966-A152	2439472.86	1966 Dec 13 0837	Black Brant VA	-	AAD-VA-107	0.000	NRCC	SF	U	NRCC/Wlochowicz	Auroral/Ionos/Meteo	WDCRF	-	-
1967-S66	2439511.78	1967 Jan 21 0638	Black Brant II	-	AA-2-105	0.000	NRCC	SS	-	NRCC/McNamara	Auroral/Ionos/Plasm	WDCRF	-	-
1967-S68	2439513.28	1967 Jan 22 1847	Black Brant II	-	AA-2-102	0.000	NRCC	SS	-	NRCC/Staniforth,Jones	Auroral/Ionos/Meteo	FC	-	-
1967-S115	2439525.72	1967 Feb 4 0521	Black Brant II	-	AA-2-101	0.000	NRCC	SS	-	NRCC/Staniforth,Wilson	Auroral/Ionos/Meteo	WDCRF	-	-
1967-S231	2439606.68	1967 Apr 26 0415	Black Brant VB	-	AFF-VB-06	0.000	NRCC	SS	-	BAL/Sevier	Test/Ionos/Plasma	WDCRF	-	-
1967-S234	2439607.67	1967 Apr 27 0410	Black Brant VB	-	AFF-VB-07	0.000	NRCC	SS	-	BAL/Sevier	Test/Ionos/Plasma	WDCRF	-	-
1967-S247	2439615.68	1967 May 5 0426	Black Brant VB	-	AAD-VB-10	0.000	NRCC	SS	-	SASK/Shepherd	Aurora/Aeron/Ionos	FC	AnnalesGeo24,305	-
1967-S365	2439705.82	1967 Aug 3 0736	Black Brant VB	-	ALF-VB-12	0.000	NRCC	SS	-	MPE/Reiger	Magnetospheric	WDCRF	Chesser	-
1967-S372	2439708.67	1967 Aug 6 0404	Black Brant VB	-	ALF-VB-13	0.000	NRCC	SS	-	MPE/Reiger	Magnetospheric	WDCRF	Chesser	-
1967-S456	2439762.19	1967 Sep 28 1635	Black Brant VA	-	AFF-VA-119	0.000	NRCC	SS	-	BAL/NRCC/Sevier	Test/Ionos	WDCRF	-	-
1967-S475	2439768.67	1967 Oct 5 0411	Black Brant VA	-	AFF-VA-120	0.000	NRCC	SS	-	BAL/NRCC/Sevier	Test/Ionos	WDCRF	-	-
1967-S570	2439831.18	1967 Dec 6 1614:51	Black Brant VA	-	CRL AF17.750D	0.000	AFCRL	SS	-	AFCRL/Sandock	Ionos	AFCRL69-0282	AFCRL	1621/FC
1968-S88	2439874.60	1968 Jan 19 0224	Black Brant II	-	AAF-2-108	0.000	NRCC	SS	-	NRCC/McNamara	Aeron/Ionos/Fields	WDCRF	-	-
1968-S90	2439877.63	1968 Jan 22 0304:42	Black Brant VB	-	ADD-VB-11	0.000	NRCC	SS	-	SASK/Montelbetti	Auroral/Ionos/Plasm	SR10,876	SR12,1385	-
1968-S97	2439878.75	1968 Jan 23 0558	Black Brant II	-	ADD-2-109/ADD-VB-109	0.000	NRCC	SS	-	SASK/Kavadas	Auroral/Ionos/Field	WDCRF	-	-
1968-S102	2439885.71	1968 Jan 30 0503	Black Brant II	-	AKD-2A-111	0.000	NRCC	SS	-	NRCC/McNamara,Anger	Auroral	FC	-	-
1968-S217	2439942.69	1968 Mar 27 0440	Black Brant VB	-	AAF-VB-04	0.000	NRCC	SS	-	NRCC/Budzinski	Auroral/Ionos/Plasm	WDCRF	-	-
1968-S252	2439950.08	1968 Apr 3 1348	Black Brant VB	-	AAF-VB-05	0.000	NRCC	SS	-	NRCC/Budzinski	Auroral/Ionos/Plasm	WDCRF	-	-
1968-S256	2439952.61	1968 Apr 6 0245	Black Brant IVA	-	AKF-4-10	0.000	NRCC	SS	-	CALG/Baxter,Wilson	Ionos/CR	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S266	2439962.67	1968 Apr 16 0358	Black Brant II	-	AKD-2A-113	0.000	NRCC	SS	-	CALG/Anger	Auroral/Aeron/Ionos	WDCRF	-	-
1968-S269	2439964.74	1968 Apr 18 0542	Black Brant II	-	AKD-2A-110	0.000	NRCC	SS	-	CALG/Anger	Auroral/Aeron/Ionos	WDCRF	-	-
1968-S270	2439964.76	1968 Apr 18 0614	Black Brant II	-	AKD-2A-112	0.000	NRCC	SS	-	CALG/Anger	Auroral/Aeron/Ionos	WDCRF	-	-
1968-S274	2439969.70	1968 Apr 23 0447	Black Brant II	-	AMF-2A-115	0.000	NRCC	SS	-	YORK/Nicholls	Auroral/Aeron/Ionos	WDCRF	-	-
1968-A74	2439969.70	1968 Apr 23 0447	Black Brant II	-	AMF-2A-116	0.000	NRCC	SF	U	YORK/Nicholls	Auroral/Aeron/Ionos	WDCRF	-	-
1968-S306	2439983.72	1968 May 7 0510	Black Brant IVA	-	NASA 19.04II	0.000	GSFC/DRTE	SS	-	DRTE/Barrington	Test/Ionospheric	WDCRF	-	-
1968-S368	2440018.16	1968 Jun 10 1549	Black Brant VA	-	CRL AH17.751D	0.000	AFCRL	SF	U	AFCRL/Sandock,Ulwick	Ionos	FC	AFCRL69-0282	-
1968-S373	2440019.48	1968 Jun 11 2330	Black Brant IVA	-	NASA 19.01NE	0.000	GSFC	SS	-	MSC/Holtz,Brandon	Magnetospheric	WDCRF	-	-
1968-S441	2440070.76	1968 Aug 2 0619	Black Brant VB	-	ADD-VB-18	0.000	NRCC	SS	-	SASK/Cavadas	Aeron/Ionos/Fields	WDCRF	SR12,1385	-
1968-S592	2440179.83	1968 Nov 19 0800:31	Black Brant VA	-	CRL AG17.757	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	SR10,825	AFCRL	-
1968-S617	2440194.31	1968 Dec 3 1930	Black Brant IVA	-	-	0.000	DFVLR	SS	-	BONN/vonZahn	Magnetospheric	WDCRF	-	-
1968-S622	2440195.24	1968 Dec 4 1751	Black Brant IVA	?	-	0.000	DFVLR	SF	U	BONN/Trinks	Aeron	WDCRF	-	-
1968-S624	2440195.26	1968 Dec 4 1812	Black Brant IVA	-	ALF-IV-12	0.000	NRCC	SF	U	BONN/vonZahn	Aeron	WDCRF	-	-
1968-S650	2440203.91	1968 Dec 13 0945	Black Brant II	-	AAF-2-125	0.000	NRCC	SS	-	NRCC/Wlochowicz	Ionos/Meteorites	WDCRF	SRctCon2	-
1968-S654	2440208.98	1968 Dec 18 1138	Black Brant VB	-	AKD-VB-21	0.000	NRCC	SS	-	CALG/Anger	Auroral/Ionos	WDCRF	-	-
1969-S65	2440235.73	1969 Jan 14 0525	Black Brant IVA	-	AAF-4-17	0.000	NRCC	SF	U	NRCC/Budzinski	Aeron/Plasma	WDCRF	-	-
1969-S89	2440249.80	1969 Jan 28 0716	Black Brant II	-	AEF-2-118	0.000	NRCC	SS	-	UTOR/deLeeuw	Aeron	WDCRF	-	-
1969-S133	2440266.47	1969 Feb 13 2311	Black Brant II	-	AMF-2-46	0.000	NRCC	SS	-	GCA/Bedinger	Aeron	WDCRF	-	-
1969-S145	2440271.68	1969 Feb 19 0417	Black Brant II	-	AMF-2-117	0.000	NRCC	SS	-	YORK/Nicholls	Auroral	WDCRF	-	-
1969-S166	2440286.76	1969 Mar 6 0614	Black Brant IVA	-	AAD-4-16	0.000	NRCC	SS	-	CRC/Barrington	Ionos/Plasma	WDCRF	-	-
1969-S176	2440290.69	1969 Mar 10 0440	Black Brant VB	-	AKD-VB-20	0.000	NRCC	SS	-	CALG/Anger	Auroral/Ionos/Solar	WDCRF	-	-
1969-S179	2440291.65	1969 Mar 11 0333	Black Brant VB	-	AAF-VB-22	0.000	NRCC	SS	-	NRCC/McNamara	Auroral/Aeron/Ionos	WDCRF	-	-
1969-S246	2440312.69	1969 Apr 1 0438	Black Brant VB	-	ADD-VB-23	0.000	NRCC	SS	-	DRTE/McEwen	Auroral	WDCRF	-	-
1969-S313	2440343.33	1969 May 1 2000	Black Brant IVA	-	AHF-4-14	0.000	NRCC	SS	-	UWO/Lyon	Ionos	WDCRF	-	-
1969-S316	2440349.08	1969 May 7 1400	Black Brant IVA	-	AHF-4-15	0.000	NRCC	SS	-	UWO/Lyon	Ionos	WDCRF	-	-
1969-S366	2440388.09	1969 Jun 15 1405	Black Brant IVA	-	CRL A16.010-01	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	AFCRL	-	-
1969-S486	2440471.09	1969 Sep 6 1410	Black Brant IVA	-	CRL A16.010-02	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	AFCRL	-	-
1969-S494	2440475.55	1969 Sep 11 0107	Black Brant II	-	AAD-2-122	0.000	NRCC	SS	-	NRCC/McNamara,Ryder	Aeron/Ionos/Meteorites	WDCRF	-	-
1969-S496	2440476.54	1969 Sep 12 0102	Black Brant II	-	AAD-2-123	0.000	NRCC	SS	-	NRCC/McNamara,Ryder	Aeron/Ionos/Meteorites	WDCRF	-	-
1969-S508	2440483.64	1969 Sep 19 0315	Black Brant IVA	-	NASA 19.05NE	0.000	GSFC	SS	-	MSC/UCB/Brandon,Greiner	Plasma	WDCRF	-	-
1969-S589	2440528.35	1969 Nov 2 2020	Black Brant VA	-	CRL AJ17.602	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	AFCRL	-	-
1969-S592	2440528.75	1969 Nov 3 0605	Black Brant VA	-	CRL AJ17.758	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	FC	AFCRL	-
1969-S600	2440529.08	1969 Nov 3 1352	Black Brant VA	-	CRL AJ17.616	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	AFCRL	-	-
1969-S602	2440529.22	1969 Nov 3 1711	Black Brant VA	-	CRL A17.906-1	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL	-	-
1969-S606	2440529.45	1969 Nov 3 2245	Black Brant VA	-	CRL AJ17.611	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	AFCRL	-	-
1969-S615	2440530.46	1969 Nov 4 2308	Black Brant VA	-	CRL AJ17.617	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	AFCRL	-	-
1969-S624	2440533.83	1969 Nov 8 0749	Black Brant VB	-	NRL NF9.207	0.000	NRL	SS	-	NRL/Shivanandan	IR Astron	WI-PR69-18	SP-4014	-
1969-S675	2440570.60	1969 Dec 15 0227	Black Brant IVA	-	AAF-4-20	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Ionos	WDCRF	-	-
1970-S65	2440600.70	1970 Jan 14 0441	Black Brant VB	-	AAF-VB-29	0.000	NRCC	SS	-	NRCC/McNamara	Ionos/Plasma/Meteor	FC	-	-
1970-S93	2440620.46	1970 Feb 2 2307:31	Black Brant VA	-	A-BBVA-23 (X1)	0.000	DLR	SS	-	KIEL/MPE/GSOC/Raethjen	Auroral	Moraba	AND	-
1970-S117	2440631.64	1970 Feb 14 0326:19	Black Brant VA	-	A-BBVA-24 (X2)	0.000	DLR	SS	-	KIEL/MPE/GSOC/Raethjen	Auroral	Moraba	AND	-
1970-S118	2440631.71	1970 Feb 14 0501:50	Black Brant VA	-	A-BBVA-25 (X3)	0.000	DLR	SS	-	KIEL/MPE/GSOC/Raethjen	Auroral	Moraba	AND	-
1970-S140	2440641.80	1970 Feb 24 0719	Black Brant IVA	-	AAD-4-23	0.000	NRCC	SS	-	NRCC/Whalen	Ionos/Plasma	WDCRF	-	-
1970-S197	2440651.59	1970 Mar 6 0212:50	Black Brant VA	-	A-BBVA-27	0.000	DLR	SS	-	KIEL/MPE/GSOC/Raethjen	Aeron/Ionos/Plasma	Moraba	AND	-
1970-S232	2440653.59	1970 Mar 8 0203:20	Black Brant VA	-	-	0.000	DLR	SS	-	KIEL/MPE/GSOC/Raethjen	Aeron/Ionos/Plasma	Moraba	AND	-
1970-S247	2440661.07	1970 Mar 15 1335	Black Brant IVA	-	-	0.000	DFVLR	SS	-	MPE/NDRE/BAL/Krankowsky	Ionos/Plasma	Moraba	AND	-
1970-S248	2440663.61	1970 Mar 18 0245	Black Brant IVA	-	-	0.000	DFVLR	SS	-	MPE/NDRE/BAL/Krankowsky	Ionos/Plasma	Moraba	AND	-
1970-S283	2440681.23	1970 Apr 4 1728:01	Black Brant VC	-	CRL A18.903-3	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	SR13,503	AFCRL	-
1970-M21	2440698.84	1970 Apr 22 0811	Black Brant II	-	AEF-2-121	0.000	NRCC	SF	U	UTOR/deLeeuw	Aeron/Ionos	WDCRF	-	-
1970-S329	2440700.54	1970 Apr 24 0052	Black Brant VB	-	AMD-VB-25	0.000	NRCC	SS	-	YORK/Shepherd	Auroral/Ionos	WDCRF	-	-
1970-S486	2440814.66	1970 Aug 16 0356	Black Brant VB	-	AAD-VB-31	0.000	NRCC	SS	-	SASK/Kavadas	Ionos	WDCRF	SR12,1385	-
1970-M24	2440819.55	1970 Aug 21 0117	Black Brant IVA	-	CRL A16.010-03	0.000	AFCRL	SF	U	AFCRL/Harvey	Ionos	AFCRL	-	-
1970-S535	2440854.63	1970 Sep 25 0310	Black Brant IVA	-	NASA 19.02NE	0.000	GSFC	SS	-	MSC/Brandon	Plasma	WDCRF	-	-
1970-S539	2440858.62	1970 Sep 29 0300	Black Brant IVA	-	NASA 19.03NE	0.000	GSFC	SS	-	MSC/Brandon	Plasma	WDCRF	-	-
1970-S636	2440928.40	1970 Dec 7 2134	Black Brant IVA	-	AKF-4A-19	0.000	NRCC	SS	-	CALG/Harrison	Aeron/XR Astron?	WDCRF	-	-
1970-S643	2440934.92	1970 Dec 14 1002	Black Brant VB	-	AAD-VB-30	0.000	NRCC	SS	-	NRCC/Wlochowicz	Ionos/Meteorites	WDCRF	-	-
1971-S63	2440965.34	1971 Jan 13 2010	Black Brant II	-	ADD-2-124	0.000	NRCC	SS	-	SASK/Llewellyn	Aeronomy	WDCRF	-	-
1971-S73	2440972.61	1971 Jan 21 0232	Black Brant VB	-	AKD-VB-27	0.000	NRCC	SS	-	CALG/Anger	Auroral/Ionos/Plasm	WDCRF	-	-
1971-S81	2440974.70	1971 Jan 23 0444	Black Brant VB	-	ADD-VB-24	0.000	NRCC	SS	-	SASK/McEwen	Auroral/Ionos/Plasm	FC	WDCRF	-
1971-S92	2440978.22	1971 Jan 26 1723	Black Brant VB	-	AMD-VB-26	0.000	NRCC	SS	-	YORK/Shepherd	Ionos/Solar	WDCRF	-	-
1971-S115	2440988.45	1971 Feb 5 2246	Black Brant IVB	-	AKF-4B-24	0.000	NRCC	SS	-	CALG/Harrison	Auroral/Ionos/Meteo	WDCRF	-	-
1971-S125	2441002.64	1971 Feb 20 0323:05	Black Brant IVA	-	AKF-4A-18	0.000	NRCC	SS	-	CALG/NRCC/Anger,Whalen	Auroral/Ionos/Plasm	JGR78,1608	WDCRF	-
1971-S132	2441007.55	1971 Feb 25 0113:00	Black Brant VB	-	NRL NF9.?	0.000	NRL	SS	-	NRL/McNutt	IR Astron/Aeron	NaturePS234,25	SP-4016	-
1971-S146	2441013.79	1971 Mar 3 0652	Black Brant VB	-	AAF-VB-32	0.000	NRCC	SS	-	NRCC/Whalen	Auroral	WDCRF	-	-
1971-S192	2441030.83	1971 Mar 20 0753	Black Brant II	-	AHF-2-115	0.000	NRCC	SS	-	YORK/Nicholls	Test/Auroral/Ionos	FC	WDCRF	-
1971-S204	2441034.73	1971 Mar 24 0526	Black Brant VC	-	CRL A18.006-3	0.000	AFCRL	SS	-	AFCRL/Stair,Vancour	Aeron	AFCRL	Desind	-
1971-S323	2441110.32	1971 Jun 7 1935	Black Brant IVA	-	CRL A16.108-1	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos VLF	AFCRL	FC	-
1971-S372	2441154.17	1971 Jul 21 1600	Black Brant VC	-	NASA 21.04GT	0.000	GSFC	SF	U	GSFC/Lane,Ott	Test	WDCRF	-	-
1972-S40	2441331.75	1972 Jan 15 0601	Black Brant VB	-	AAF-VB-33	0.000	NRCC	SS	-	NRCC/Whalen	Aeron/Plasma	WDCRF	-	-
1972-S41	2441331.75	1972 Jan 15 0604	Black Brant IVB	-	AAF-4B-25	0.000	NRCC	SS	-	NRCC/Whalen,McNamara	Ionos	WDCRF	-	-
1972-S52	2441344.26	1972 Jan 27 1816	Black Brant VC	-	NASA 21.06GT	0.000	GSFC	SS	-	MSFC/GSFC/Ott	Microgravity	WDCRF	JBIS	-
1972-S63	2441351.08	1972 Feb 3 1355	Black Brant VC	-	N-BB/V-42	0.000	DLR	SS	-	MPE/Krankowsky?	Auroral/Ionos?	Moraba	-	-
1972-S78	2441361.50	1972 Feb 14	Black Brant VB	-	-	0.000	NRCC	SS	-	-	Auroral/Ionos?	Chesser	-	-
1972-S79	2441362.66	1972 Feb 15 0348	Black Brant II	-	ADD-2-114	0.000	NRCC	SS	-	SASK/McEwen?	Auroral/Ionos	WDCRF	-	-
1972-S105	2441384.94	1972 Mar 8 1032:53	Black Brant VC	-	N-BB/V-41	0.000	DLR	SS	-	MPE/Krankowsky	Aeron/Ionos	Moraba	-	-
1972-S117	2441392.93	1972 Mar 16 1016	Black Brant VA	-	CRL A17.110-3	0.000	AFCRL	SS	-	AFCRL/USU/Ulwick	Plasma,IR Aeron	AFCRL	-	-
1972-S135	2441400.91	1972 Mar 24 0944	Black Brant VB	-	AED-VB-28	0.000	NRCC	SS	-	UTOR/deLeeuw	Aeron/Ionos	WDCRF	-	-
1972-S149	2441412.74	1972 Apr 5 0546	Black Brant VC	-	CRL A18.109-1	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Plasma/Auroral	FC	AFCRL	-
1972-S197	2441454.79	1972 May 17 0700	Black Brant IVB	-	APF-4B-26	0.000	NRCC	SS	-	NRCC/Wilson	XR Astron	SRFB-068	FC	-
1972-S230	2441469.43	1972 May 31 2225	Black Brant VC	-	NASA 21.01US	0.000	GSFC	SS	-	UCO/Rense	Solar	JCM	Desind	-
1972-S234	2441477.73	1972 Jun 9 0525	Black Brant VC	-	NASA 21.08UG	0.000	GSFC	SS	-	UCB/Bowyer	UV Astron/EUV Astron	ApJ180,L55	-	-
1972-A77	2441514.22	1972 Jul 15 1712	Black Brant VB	-	CRL A18.903-4	0.000	AFCRL	SF	U	AFCRL/Chagnon	Aeron/Solar UV	AFCRL	-	-
1972-S312	2441585.09	1972 Sep 24 1405	Black Brant VA	-	CRL A17.110-2	0.000	AFCRL	SS	-	AFCRL/Sandock,Ulwick	Ionos	AFCRL	-	-
1972-S315	2441585.61	1972 Sep 25 0240	Black Brant VC	-	NASA 21.05UE	0.000	GSFC	SS	-	UMN/Winckler	Plasma	WDCRF	JGR85A1-16	-
1972-S319	2441586.31	1972 Sep 25 1924	Black Brant VA	-	CRL A17.110-1	0.000	AFCRL	SS	-	AFCRL/Sandock,Ulwick	Ionos	AFCRL	-	-
1972-S340	2441601.62	1972 Oct 11 0300	Black Brant VA	-	NRL NF9.250	0.000	NRL	SS	-	NRL/McNutt	Auroral	WDCRF	ApplOpt14,1116	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S362	2441615.22	1972 Oct 24 1720	Black Brant VB	-	NASA 21.20GT	0.000	GSFC	SS	-	HCO/GSFC/Ott,Timothy	Test	KPNO	-	-
1972-S387	2441623.69	1972 Nov 2 0427	Black Brant VC	-	NASA 21.02UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	SP-4017	-	-
1972-S415	2441656.79	1972 Dec 5 0700	Black Brant VC	-	CRL A18.006-5	0.000	AFCRL	SS	-	AFCRL/Stair	Aeron	FC	AFCRL	-
1973-S24	2441705.47	1973 Jan 22 2310	Black Brant VC	-	NASA 21.09GT-US	0.000	GSFC	SS	-	GSFC/Bolster,Lane,Wood	Aeron/Solar EUV	WDCRF	-	-
1973-S37	2441711.71	1973 Jan 29 0502	Black Brant IVB	-	AAF-4B-27	0.000	NRCC	SS	-	NRCC/Whalen	Auroral	WDCRF	-	-
1973-S53	2441715.11	1973 Feb 1 1433:30	Black Brant VC	-	-	0.000	DFVLR	SS	-	DLR/Schlegel	Aeron/Ionos	Moraba	Chesser	-
1973-S55	2441715.76	1973 Feb 2 0620	Black Brant VB	-	AAF-VB-36	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Aeron/Plasm	WDCRF	FC	-
1973-S57	2441716.50	1973 Feb 3	Black Brant VC	-	-	0.000	DFVLR	SS	-	DLR/	Aeron?	Chesser	-	-
1973-S63	2441721.09	1973 Feb 7 1409	Black Brant VC	-	-	0.000	DFVLR	SS	-	DLR/	Aeron?	Moraba	Chesser	-
1973-S65	2441722.62	1973 Feb 9 0253	Black Brant IVB	-	AAF-4B-28	0.000	NRCC	SS	-	NRCC/Whalen	Aeron/Plasma/Auroral	WDCRF	-	-
1973-S66	2441723.67	1973 Feb 10 0408	Black Brant VC	-	NASA 21.16UG	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron/XR Astron	ApJ205,426	ApJ190,285	-
1973-S70	2441729.72	1973 Feb 16 0516:00	Black Brant VC	-	-	0.000	DFVLR	SS	-	DLR/INPE/Drescher,Sahai	Aeron	SR15,251	[Moraba Feb-15-0216]	-
1973-S84	2441739.64	1973 Feb 26 0323	Black Brant II	-	ADD-2-127	0.000	NRCC	SS	-	SASK/McEwen	Auroral/Aeron/Ionos	WDCRF	-	-
1973-S115	2441764.01	1973 Mar 22 1212	Black Brant VC	-	CRL A18.006-2	0.000	AFCRL	SS	-	AFCRL/Stair,Wheeler	Auroral	AFCRL	-	-
1973-S121	2441768.90	1973 Mar 27 0937:45	Black Brant VC	-	CRL A18.205-1	0.000	AFCRL	SS	-	AFCRL/Narcisi,Ulwick	Ionos	AFCRL	-	-
1973-S141	2441776.22	1973 Apr 3 1720	Black Brant VC	-	NASA 21.11DS-NP	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WDCRF	-	-
1973-S167	2441815.03	1973 May 12 1241:00	Black Brant VC	-	A-BBVC-51	0.000	DFVLR	SS	-	MPE/BONN/Krankowsky	Aeronomy/Ionos	AND	Moraba/ESRO73	-
1973-S168	2441818.89	1973 May 16 0919	Black Brant VB	-	AAF-VB-37	0.000	NRCC	SS	-	NRCC/Roberts	Test/Aeron/Ionos/So	WDCRF	-	-
1973-S169	2441821.17	1973 May 18 1600	Black Brant VC	-	NASA 21.19US-GT	0.000	GSFC	SS	-	UCO/Rense	Test/Aeron/Solar EU	WDCRF	-	-
1973-S194	2441838.22	1973 Jun 4 1710	Black Brant VC	-	NASA 21.21NP-US	0.000	GSFC	SF	U	HCO/Timothy	Solar EUV	WDCRF	SpaSciInst1,23	-
1973-S201	2441847.23	1973 Jun 13 1738	Black Brant VC	-	NASA 21.12DS-NP	0.000	GSFC	SS	-	NRL/Brueckner	Solar UV/Solar X	WDCRF	-	-
1973-S205	2441854.94	1973 Jun 21 1030	Black Brant IVB	-	APF-4B-30	0.000	NRCC	SS	-	CALG/Wilson	XR Astron	WDCRF	-	-
1973-S229	2441867.64	1973 Jul 4 0327:11	Black Brant VC	-	A-BBVC-49	0.000	DFVLR	SS	-	BONN/FREIB/Trinks	Aeronomy/Ionos	Moraba	ESRO73/AND	-
1973-S270	2441903.50	1973 Aug 9	Black Brant IVB	-	NASA 19.07GT	0.000	GSFC	SS	-	GSFC/Bolster	Test	WISR	-	-
1973-S272	2441904.23	1973 Aug 9 1730:58	Black Brant VC	-	NASA 21.22NP-US	0.000	GSFC	SS	-	HCO/Timothy CALROC	Solar EUV	WDCRF	SpaSciInst1,23	-
1973-S273	2441904.34	1973 Aug 9 2012	Black Brant IVB	-	CRL A16.000-01	0.000	AFCRL	SS	-	AFCRL/Mansfield	Test	AFCRL	-	-
1973-S288	2441925.21	1973 Aug 30 1701	Black Brant VC	-	NASA 21.07US	0.000	GSFC	SS	-	UCO/Rense	Solar	WDCRF	-	-
1973-S295	2441930.20	1973 Sep 4 1645	Black Brant VC	-	NASA 21.13DS-NP	0.000	GSFC	SS	-	NRL/Brueckner	Solar UV/Solar X	WDCRF	NRL-Rpt8057	-
1973-S365	2441979.63	1973 Oct 24 0305	Black Brant IVA	-	CRL A16.313-01	0.000	AFCRL	SS	-	AFCRL/Lewis	Ionos VLF	AFCRL	-	-
1973-S367	2441980.63	1973 Oct 25 0307	Black Brant IVA	-	CRL A16.313-02	0.000	AFCRL	SS	-	AFCRL/Lewis	Ionos VLF	AFCRL	-	-
1973-S402	2442009.40	1973 Nov 22 2129	Black Brant IVB	-	-	0.000	DFVLR	SS	-	DLR/?	Ionos/Plasma?	JCM	-	-
1973-S406	2442012.45	1973 Nov 25 2247	Black Brant VA	-	AMF-VA-40	0.000	NRCC	SF	U	YORK/Nicholls	Auroral	FC	WDCRF	-
1973-S409	2442014.13	1973 Nov 27 1506:33	Black Brant IVA	-	NASA 19.08UA	0.000	GSFC	SS	-	UAF/Wescott	Aeronomy	WDCRF	-	-
1973-S418	2442021.14	1973 Dec 4 1520:33	Black Brant IVA	-	NASA 19.09UA	0.000	GSFC	SS	-	UAF/Wescott	Aeronomy	WDCRF	-	-
1973-S433	2442027.30	1973 Dec 10 1910	Black Brant VC	-	NASA 21.23NP-US	0.000	GSFC	SS	-	HCO/Timothy CALROC	Solar EUV	WDCRF	SpaSciInst1,23	-
1974-S59	2442063.33	1974 Jan 15 2000	Black Brant VC	-	NASA 21.14DS-NP	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WDCRF	NRL-Rpt8057	-
1974-S74	2442070.75	1974 Jan 23 0606	Black Brant VB	-	AMD-VB-34	0.000	NRCC	SS	-	YORK/Shepherd	Auroral/Aeron/Ionos	FC	WDCRF	-
1974-S93	2442085.45	1974 Feb 6 2248:57	Black Brant IVB	-	ESRO D-101	0.000	DFVLR/ESTEC	SS	-	MPE/NDRE/ESTEC/Maehlum	Auroral	Moraba	AND	-
1974-S100	2442092.42	1974 Feb 13 2201	Black Brant IVB	-	AAF-4B-31	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Ionos/Field	FC	WDCRF	-
1974-S101	2442092.75	1974 Feb 14 0607	Black Brant VC	-	CRL A18.006-4	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1974-S113	2442099.89	1974 Feb 21 0916	Black Brant VC	-	CRL A18.116-1	0.000	AFCRL	SS	-	AFCRL/Stair	Aeron	AFCRL	-	-
1974-S114	2442100.71	1974 Feb 22 0459	Black Brant II	-	ADD-2A-128	0.000	NRCC	SS	-	SASK/McEwen	Auroral/Aeron/Ionos	WDCRF	-	-
1974-S118	2442103.82	1974 Feb 25 0738	Black Brant VC	-	CRL A18.219-1	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-
1974-S120	2442105.26	1974 Feb 26 1817	Black Brant VC	-	NASA 21.18US	0.000	GSFC	SF	U	UCO/LPSP/Rense,Delaboud.	Solar EUV	WDCRF	SR16,803	-
1974-S121	2442106.62	1974 Feb 28 0253	Black Brant VB	-	AKF-VB-39	0.000	NRCC	SS	-	CALG/Anger	Auroral	WDCRF	-	-
1974-S153	2442135.58	1974 Mar 29 0200:01	Black Brant IVB	-	-	0.000	AERO	SS	-	AERO/Morse	Ionos/Eclipse	WDCRF	JGR82,578	-
1974-S175	2442154.93	1974 Apr 17 1023	Black Brant VC	-	NASA 21.26UE	0.000	GSFC	SS	-	UMN/Winckler	Auroral	WWW-PFRR	-	-
1974-S219	2442213.72	1974 Jun 15 0515	Black Brant VC	-	NASA 21.17UG	0.000	GSFC	SS	-	UCB/Bowyer	XR Astron	ApJ202,L9	ApJ203,L25	-
1974-S240	2442228.34	1974 Jun 29 2016	Black Brant VC	-	NASA 21.28IA	0.000	GSFC	SS	-	MPE/Van Zahn	Aeronomy	WDCRF	JGR83A1-203/JGR83,21	-
1974-S338	2442325.18	1974 Oct 4 1616	Black Brant VC	-	NASA 21.15GP	0.000	GSFC	SS	-	GSFC/McIntosh	Test	WDCRF	-	-
1974-S388	2442376.84	1974 Nov 25 0810	Black Brant VC	-	NASA 21.31UG	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron/XR Astron	WDCRF	ApJ202,L9	-
1974-S402	2442388.48	1974 Dec 6 2332:06	Black Brant VB	-	AMF-VB-41	0.000	NRCC	SS	-	NRCC/ISAS/McNamara,Hirao	Auroral	ADS	WDCRF	-
1974-S409	2442393.45	1974 Dec 11 2248	Black Brant IVB	-	AAF-4B-32	0.000	NRCC	SS	-	NRCC/McNamara,Whalen	Auroral/Ionos	WDCRF	-	-
1974-S418	2442398.95	1974 Dec 17 1055	Black Brant IVB	-	ESRO D-102A?	0.000	DFVLR/ESTEC	SS	-	MPE/	Ionospheric	Moraba	ESA-SP183	-
1974-A57	2442399.96	1974 Dec 18 1104	Black Brant IVB	-	-	0.000	DFVLR	SF	U	MPE/	Ionospheric	Moraba	ESA-SP183	-
1975-S31	2442419.49	1975 Jan 6 2349:02	Black Brant IVB	-	Tordo I	0.000	SAND	SS	-	LASL/UAF/Jeffries	Plasma Ba	JGR82.1876	GRL2,285	-
1975-S33	2442423.52	1975 Jan 11 0025:02	Black Brant IVB	-	Tordo II	0.000	SAND	SS	-	LASL/UAF/Jeffries	Plasma Ba	JGR82,1876	GRL2,285	-
1975-S35	2442423.95	1975 Jan 11 1053	Black Brant IVB	-	-	0.000	DFVLR	SS	-	MPE/Haerendel	Ionospheric	Moraba	ESA-SP183	-
1975-S44	2442433.27	1975 Jan 20 1830	Black Brant VC	-	NASA 21.24US	0.000	GSFC	SS	-	UCO/LPSP/Rense,Delaboud.	Solar EUV	SR16,803	SpaSciInst1,91	-
1975-S52	2442442.59	1975 Jan 30 0215	Black Brant VB	-	AED-VB-43	0.000	NRCC	SS	-	-	Auroral/Aeron	WDCRF	-	-
1975-S226	2442615.15	1975 Jul 21 1531	Black Brant VC	-	NASA 21.25DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar UV	WDCRF	-	-
1975-S233	2442622.24	1975 Jul 28 1744	Black Brant VC	-	NASA 21.29US	0.000	GSFC	SS	-	UCO/Bruner,Bonnet	Solar UV	WDCRF	-	-
1975-S327	2442742.49	1975 Nov 25 2339:18	Black Brant IVB	-	AEC-IVA-03	0.000	NRCC/SAND	SS	-	LASL/Peek	Plasma Ba	FC	SRctCon3	-
1975-S330	2442745.49	1975 Nov 28 2339:18	Black Brant IVB	-	AEC-IVA-04	0.000	NRCC/SAND	SS	-	LASL/Peek	Plasma Ba	FC	SRctCon3	-
1975-S350	2442758.18	1975 Dec 11 1615	Black Brant VC	-	NASA 21.32NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	WDCRF	-	-
1976-S55	2442788.09	1976 Jan 10 1416:00	Black Brant VC	-	NASA 12.29GT-IT	0.000	GSFC	SS	-	SSC/GSFC/Lane	Tech	ESA-SP115	ESA-SP135-37	-
1976-S64	2442797.57	1976 Jan 20 0142	Black Brant IVB	-	GL A16.501-01	0.000	AFGL2	SS	-	AFCRL/Harvey	Ionos	AFCRL	-	-
1976-S88	2442808.78	1976 Jan 31 0644:10	Black Brant VC	-	NASA 21.27UE	0.000	GSFC	SS	-	UMN/Winckler	Auroral	WDCRF	JGR83A1-121	-
1976-M07	2442810.59	1976 Feb 2 0208:30	Black Brant VB	-	AAF-VB-35	0.000	NRCC	SF	U	NRCC/Whalen	Auroral/Ionos	WDCRF	-	-
1976-S93	2442813.72	1976 Feb 5 0522	Black Brant IVB	-	AAF-4B-33	0.000	NRCC	SS	-	NRCC/Whalen	Test/Auroral/Ionos	WDCRF	-	-
1976-S104	2442827.24	1976 Feb 18 1740	Black Brant VC	-	NASA 21.30US-IS	0.000	GSFC	SS	-	UCO/Bruner	Solar UV	WDCRF	-	-
1976-A16	2442847.88	1976 Mar 10 0910	Black Brant IVB	-	Astro 6-1	0.000	DLR	SF	U	BONN/Fahr	EUV Astronomy	ESA-SP135-277	Moraba	-
1976-S156	2442868.78	1976 Mar 31 0639	Black Brant VC	-	NASA 21.03UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos/Auroral	WDCRF	-	-
1976-S184	2442916.17	1976 May 17 1600	Black Brant VC	-	NASA 21.33NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	WDCRF	-	-
1976-S186	2442921.90	1976 May 23 0930	Black Brant VC	-	NASA 21.48NP	0.000	GSFC	SS	-	JPL/Mason	Tech	WDCRF	-	-
1976-S214	2442956.87	1976 Jun 27 0858	Black Brant IVB	-	Astro 6-2	0.000	DLR	SS	-	BONN/Fahr	EUV Astronomy	ESA-SP135-277	Moraba	-
1976-S305	2443074.12	1976 Oct 22 1500	Black Brant VC	-	NASA 21.36DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WDCRF	-	-
1976-S321	2443092.02	1976 Nov 9 1232	Black Brant VB	-	APD-VB-42	0.000	NRCC	SS	-	NRCC/Wilson	XR Astron	WDCRF	SRctCon3	-
1976-S348	2443127.32	1976 Dec 14 1935	Black Brant VC	-	NASA 21.34NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	WDCRF	-	-
1977-S35	2443150.82	1977 Jan 7 0745	Black Brant VB	-	AED-VB-46	0.000	NRCC	SS	-	UTOR/deLeeuw	Auroral/Aeron	WDCRF	-	-
1977-S38	2443156.68	1977 Jan 13 0422	Black Brant VA	-	AAD-VA-45	0.000	NRCC	SS	-	SASK/McEwen	Auroral/Ionos	WDCRF	-	-
1977-S41	2443158.57	1977 Jan 15 0140	Black Brant VC	-	NASA 21.49UL	0.000	GSFC	SS	-	UCO/Barth	UV Astron	WDCRF	WDCRR	-
1977-S103	2443210.67	1977 Mar 8 0401	Black Brant IVB	-	AAF-4B-34	0.000	NRCC	SS	-	NRCC/Whalen	Test/Auroral/Ionos	WDCRF	-	-
1977-S105	2443212.19	1977 Mar 9 1640	Black Brant VC	-	NASA 21.41US	0.000	GSFC	SS	-	UCO/Rense	Solar	WDCRF	-	-
1977-S124	2443223.77	1977 Mar 21 0622	Black Brant VB	-	AND-VB-44	0.000	NRCC	SS	-	UBC/Gush	Submm Astron	WDCRF	-	-
1977-S148	2443249.71	1977 Apr 16 0500	Black Brant VC	-	NASA 21.54UG	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	AppOpt19,729	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S197	2443304.63	1977 Jun 10 0306:19	Black Brant VC	-	DLR H-BBV-84	0.000	DFVLR	SS	-	DORN/Koch	Tech	Moraba	ESA-SP135	-
1977-S204	2443316.17	1977 Jun 21 1600	Black Brant VC	-	NASA 21.45NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	WDCRF	-	-
1977-S315	2443378.50	1977 Aug 23	Black Brant IVB	?	Equatorial Wideband	0.000	NRL/DNA	SF	U	NRL/Walker,Szuszczewicz	Plasma	NRL-MR-3649	-	-
1978-S66	2443549.73	1978 Feb 10 0530	Black Brant VB	-	NASA 21.56UG	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	-	-
1978-S70	2443553.22	1978 Feb 13 1715	Black Brant VC	-	NASA 21.42DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar UV	WDCRF	ESA-SP270-341	-
1978-S76	2443566.73	1978 Feb 27 0530	Black Brant IVB	-	AAF-4B-35	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Ionos	WDCRF	-	-
1978-S110	2443610.57	1978 Apr 12 0143	Black Brant VA	-	ADD-VA-49	0.000	NRCC	SS	-	SASK/Llewellyn	Auroral	WDCRF	ESA-SP152	-
1978-S206	2443763.17	1978 Sep 11 1600:00	Black Brant VC	-	NASA 21.46NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	TM-78275	-	-
1978-S255	2443857.58	1978 Dec 15 0157	Black Brant VB	-	APD-VB-47	0.000	NRCC	SS	-	UTOR/deLeeuw	Auroral	FC	-	-
1979-S47	2443901.22	1979 Jan 27 1712:32	Black Brant VC	-	SSC S23-L1	0.000	SSC	SS	-	KGI/Sandahl	Auroral	ESA-SP152-257	Chesser	-
1979-S50	2443901.41	1979 Jan 27 2152:20	Black Brant VC	-	SSC S23-L2	0.000	SSC	SS	-	KGI/Sandahl	Auroral	ESA-SP152-257	Chesser	-
1979-S73	2443931.20	1979 Feb 26 1650:45	Black Brant VA	-	AMF-VA-51	0.000	NRCC	SS	-	UNK?/Nicholls	Eclipse	WI-PR79-6	ESA-SP229-206	-
1979-S87	2443933.91	1979 Mar 1 0944	Black Brant VC	-	NASA 21.60DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WDCRF	-	-
1979-S154	2444053.84	1979 Jun 29 0815	Black Brant VB	-	NASA 21.59UG	0.000	GSFC	SS	-	JHU/Fastie	UV Astron	WDCRF	-	-
1979-S182	2444093.33	1979 Aug 7 1950	Black Brant VC	-	GL A18.805	0.000	AFGL2	SS	-	AFCRL/McKenna	ABM Tech	WDCRF	ESA-SP152-141	-
1979-S205	2444137.38	1979 Sep 20 2100	Black Brant VC	-	NASA 21.57UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron	WDCRF	-	-
1979-S213	2444143.98	1979 Sep 27 1130	Black Brant VC	-	NASA 21.62GS	0.000	GSFC	SS	-	GSFC/Behring	Solar	WDCRF	-	-
1979-S251	2444224.77	1979 Dec 17 0627	Black Brant VA	-	ADD-VA-48	0.000	NRCC	SS	-	SASK/McEwen	Auroral	WDCRF	-	-
1980-S43	2444284.99	1980 Feb 15 1143:24	Black Brant VB	-	ADD-VB-50	0.000	NRCC	SS	-	SASK/McEwen	Auroral	WDCRF	ESA-SP229-206	-
1980-S57	2444292.92	1980 Feb 23 1005:09	Black Brant VB	-	ADD-VB-52	0.000	NRCC	SS	-	SASK/McEwen	Auroral	WDCRF	ESA-SP229-206	-
1980-S178	2444513.26	1980 Sep 30 1816	Black Brant VC	-	NASA 21.65UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron	WDCRF	-	-
1981-S51	2444623.65	1981 Jan 19 0337:27	Black Brant VB	-	AED-VB-54	0.000	NRCC	SS	-	UTOR/deLeeuw	Aeron	FC	WDCRF	-
1981-S55	2444630.81	1981 Jan 26 0720:06	Black Brant IVB	-	AAF-4B-36	0.000	NRCC	SS	-	NRCC/Whalen	Auroral	WDCRF	-	-
1981-S88	2444691.58	1981 Mar 28 0154:06	Black Brant VB	-	AAF-VB-55	0.000	NRCC	SS	-	NRCC/Whalen	Ionos/Plasma/Fields	WDCRF	-	-
1981-S87	2444691.58	1981 Mar 28 0154	Black Brant IVB	-	AAF-4B-37	0.000	NRCC	SS	-	NRCC/Whalen	Ionos/Plasma/Fields	WDCRF	-	-
1981-S110	2444751.68	1981 May 27 0425	Black Brant VC	-	NASA 21.67UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WDCRF	ApJ267,L125	-
1981-S158	2444877.50	1981 Sep 30	Black Brant VC	-	NASA 21.63GS	0.000	GSFC	SS	-	GSFC/Behring	Solar	WISR	-	-
1981-S176	2444945.47	1981 Dec 6 2314:58	Black Brant IVB	-	AAF-4B-38	0.000	NRCC	SS	-	NRCC/Creutzberg	Auroral	CanJPhys64,1426	WDCRF	-
1981-M17	2444952.40	1981 Dec 13 2131:38	Black Brant IVB	-	AAF-4B-39	0.000	NRCC	SF	U	NRCC/Creutzberg	Auroral	FC	WDCRF	-
1982-S167	2445228.26	1982 Sep 15 1815	Black Brant VC	-	AMF-VC-53	0.000	NRCC	SS	-	NRCC/Nicholls	Solar IR	WDCRF	-	-
1982-S186	2445274.84	1982 Nov 1 0816	Black Brant VC	-	NASA 21.69UH	0.000	GSFC	SS	-	MIT/LUX/Rappaport	XR Astron	WISR	-	-
1982-S187	2445283.24	1982 Nov 9 1745	Black Brant VB	-	NASA 21.64GS	0.000	GSFC	SS	-	GSFC/Behring	Solar	WISR	-	-
1982-S198	2445316.93	1982 Dec 13 1020	Black Brant VC	-	NASA 21.74UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1983-S67	2445401.17	1983 Mar 7 1600	Black Brant VC	-	NASA 21.84DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar UV	WISR	WIPR83-5	-
1983-S111	2445496.84	1983 Jun 11 0810	Black Brant VC	-	ADD-VC-56	0.000	NRCC	SS	-	NRCC/McNamara	Aeron	WDCRF	ESA-SP291-169	-
1983-S146	2445554.75	1983 Aug 8 0600	Black Brant VB	-	-	0.000	NASA/ISAS	SS	-	ISAS/USU/	Tether/Ionos	AdvAstSci62-497	JScR24,444	-
1984-S64	2445754.36	1984 Feb 23 2034:47	Black Brant VB	-	NASA 21.86UE	0.000	GSFC	SS	-	UMI/Sharp	Ionos/Auroral	WISR	-	-
1984-S69	2445762.69	1984 Mar 3 0440	Black Brant VB	-	NASA 21.85UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	ApJ292,676	-
1984-S101	2445905.95	1984 Jul 24 1040:50	Black Brant VB	-	NASA 21.91GE	0.000	GSFC	SS	-	GSFC/Maynard	Ionos	WISR	WIPR84-10	-
1984-S126	2445998.21	1984 Oct 24 1658:20	Black Brant VC	-	SSC S38	0.000	SSC	SS	-	UIO/Holmgren	Auroral/E Field/Releases	ASR8,1,79	ESA-SP229-19	-
1985-S59	2446142.87	1985 Mar 18 0850	Black Brant VC	-	NASA 21.70UH	0.000	GSFC	SS	-	MIT/LUX/Rappaport	XR Astron	WISR	-	-
1985-S87	2446230.80	1985 Jun 14 0715	Black Brant VB	-	NASA 21.81UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1985-A05	2446281.42	1985 Aug 3 2200:08	Black Brant VB	-	NASA 21.94CS	0.000	GSFC	SF	U	ASE/Davis	Solar	WISR	-	-
1986-S25	2446488.00	1986 Feb 26 1202	Black Brant VB	-	NASA 21.93UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	Desind	-
1986-S31	2446502.97	1986 Mar 13 1120	Black Brant VB	-	NASA 21.95UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1988-S79	2447260.53	1988 Apr 9 0040:52	Black Brant VB	-	NASA 21.97GE	0.000	SSC/NASA	SS	-	GSFC/IRF/Pfaff	Ionos	WISR	ssc.se	-
1988-S134	2447473.29	1988 Nov 7 1902	Black Brant VC	-	NASA 21.98IE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	ESA-SP291-153	-	-
1988-S135	2447476.29	1988 Nov 10 1900	Black Brant VC	-	NASA 21.101UU	0.000	GSFC	SS	-	UCO/Woods	Aeron/SolarUV	WISR	-	-
1989-S39	2447589.26	1989 Mar 3 1817:14	Black Brant VB	-	NASA 21.100GE	0.000	SSC/NASA	SS	-	GSFC/IRF/Pfaff	Aeron	WISR	-	-
1989-S40	2447589.54	1989 Mar 4 0102:47	Black Brant VC	-	NASA 21.96GE	0.000	SSC/NASA	SS	-	GSFC/IRF/Pfaff	Auroral	WISR	-	-
1989-S59	2447677.50	1989 May 31	Black Brant VC	-	-	0.000	AERO	SS	-	AERO/	Test?	Chesser	-	-
1989-S74	2447738.50	1989 Jul 31	Black Brant VC	-	SDIO Black Star 5	0.000	SDIO	SS	-	SDIO/	Target	Chesser	-	-
1989-S94	2447784.50	1989 Sep 15	Black Brant VC	-	SDIO Black Star 6	0.000	SDIO	SS	-	SDIO/	Target	Chesser	-	-
1990-S103	2448084.50	1990 Jul 12	Black Brant VC	-	-	0.000	AERO	SS	-	AERO/	Test?	Chesser	-	-
1990-S139	2448177.35	1990 Oct 12 2028:38	Black Brant VC	-	NASA 21.102IE	0.000	GSFC	SS	-	GSFC/NDRE/Pfaff	Auroral	ESA-SP317-75	WDCRF	-
1990-S140	2448179.50	1990 Oct 15	Black Brant VC	-	-	0.000	AERO	SS	-	AERO/	Test?	Chesser	-	-
1991-S132	2448469.56	1991 Aug 1 0128:20	Black Brant VB	-	NASA 21.103GE NLC-91	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	WISR	ASR14,9,113	-
1991-S135	2448478.48	1991 Aug 9 2330:20	Black Brant VB	-	NASA 21.104GE NLC-91	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	WISR	ASR14,9,113	-
1992-S57	2448796.52	1992 Jun 23 0024	Black Brant VC	-	NASA 21.105GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	WISR	-	-
1994-S63	2449605.07	1994 Sep 9 1333:50	Black Brant VC	-	NASA 21.110GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	WISR	Chesser	-
1994-S68	2449617.08	1994 Sep 21 1356:00	Black Brant VC	-	NASA 21.111GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	GRL24,1667	Chesser	-
1994-S76	2449632.06	1994 Oct 6 1322	Black Brant VC	-	NASA 21.112GE	0.000	GSFC	SF	U	GSFC/Pfaff	Ionos	WISR	Chesser	-
1994-S78	2449641.07	1994 Oct 15 1341:31	Black Brant VC	-	NASA 21.113GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	WISR	Chesser	-
1996-S75	2450247.50	1996 Jun 13	Black Brant VC	-	-	0.000	USNAEG?	SS	-	USNAEG?/	Target	CWSSV	-	-
1996-S53	2450325.23	1996 Aug 29 1738	Black Brant VC	-	-	0.000	BMDO?	SS	-	BMDO/	Target?	NTSB-MIA96SA223	NYT960909	-
1997-S52	2450669.19	1997 Aug 8 1629	Black Brant VC	-	NASA 21.120NE	0.000	GSFC	SS	-	LARC/Mlynczak	Ionos/Aeron	Launchspace9710-70	www.sdl.usu.edu	-
1998-S17	2450864.51	1998 Feb 20 0009:02	Black Brant VC	-	NASA 21.117UE	0.000	GSFC	SS	-	CORN/Kelley	Ionos	WWW-WFF	-	-
1998-S18	2450864.53	1998 Feb 20 0037:43	Black Brant VC	-	NASA 21.119UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos/Release	WWW-WFF	-	-
1998-S20	2450869.64	1998 Feb 25 0317:00	Black Brant VC	-	NASA 21.118UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos/Release	WWW-WFF	-	-
1998-S27	2450879.56	1998 Mar 7 0133:07	Black Brant VC	-	NASA 21.114UE	0.000	GSFC	SS	-	UTD/Earle	Ionos?	WWW-WFF	-	-
1998-S32	2450897.57	1998 Mar 25 0145:21	Black Brant VC	-	NASA 21.115UE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos?	WWW-WFF	-	-
1999-S03	2451201.14	1999 Jan 22 1520:17	Black Brant VB	-	NASA 21.121CE	0.000	GSFC	SS	-	AERO/Christensen	Ionos?	www.pfrr.alaska.edu	-	-
1999-S43	2451364.67	1999 Jul 5 0357:57	Black Brant VC	-	NASA 21.116GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos?	WWW-WFF	-	-
1999-S45	2451365.48	1999 Jul 5 2336:30	Black Brant VA	-	NASA 21.123GE	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WWW-WFF	ESASP-471-157	-
1999-S47	2451373.64	1999 Jul 14 0328:45	Black Brant VA	-	NASA 21.124GE	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WWW-WFF	ESASP-471-157	-
1999-S49	2451387.41	1999 Jul 27 2147:50	Black Brant VB	-	NASA 21.122GE	0.000	GSFC	SS	-	ERAU/Espy	Ionos	www.ssc.se	-	-
2000-S61	2451843.91	2000 Oct 26 0957:00	Black Brant VC	-	NASA 21.126CE	0.000	GSFC	SS	-	AERO/Hecht	Plasma	JScR43,186	www.wff.nasa.gov	-
2001-S33	2452089.70	2001 Jun 29 0444:01	Black Brant VC	-	NASA 21.125GE	0.000	GSFC	SS	-	GSFC/Pfaff	Plasma	AGU2001	www.wff.nasa.gov	-
2002-S09	2452326.91	2002 Feb 21 0955:01	Black Brant VB	-	NASA 21.128UE	0.000	GSFC	SS	-	AERO/Christensen	Ionos	www.wff.nasa.gov	-	-
2003-S13	2452726.01	2003 Mar 27 1212:01	Black Brant VC	-	NASA 21.131UE	0.000	GSFC	SS	-	CLEM/Larsen	Ionos	www.wff.nasa.gov	ESA-SP590-331	-
2004-S40	2453255.99	2004 Sep 7 1145:53	Black Brant VC	-	NASA 21.132GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.wff.nasa.gov	-	-
2004-S45	2453265.83	2004 Sep 17 0800:45	Black Brant VC	-	NASA 21.133GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	rscience.gsfc	-	-
2007-S02	2454120.03	2007 Jan 19 1245:01	Black Brant VC	-	NASA 21.138UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	www.wff.nasa.gov	rscience.gsfc	-
2009-S04	2454860.91	2009 Jan 29 0951:11	Black Brant VC	-	NASA 21.139UE	0.000	GSFC	SS	-	UIA/Bounds	Auroral	wff.nasa.gov	-	-
2011-S28	2455753.08	2011 Jul 10 1400:00	Black Brant VC	-	NASA 21.141GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	rscience.gsfc	www.wff.nasa.gov	-
2013-S45	2456478.11	2013 Jul 4 1431:25	Black Brant VC	-	NASA 21.140GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S51	2460555.90	2024 Sep 2 0941:00	Black Brant VC	-	BOLT-1B	0.000	DLR	SS	-	JHU/AFRL/	Hypersonic	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-M88	2440495.50	1969 Oct 1	Black Brant VI	-	RDT&E XM-75	Test 1	-	-	-	WS	-	-	-	60?	-	-
1972-W897	2441511.30	1972 Jul 12 1907	Black Brant VI	?	RDT&E?	MDSS FP-019	-	-	-	FC	-	-	-	71	-	-
1972-W898	2441511.37	1972 Jul 12 2052	Black Brant VI	?	-	MDSS FP-020	-	-	-	FC	-	-	-	72	-	-
1972-A72	2441511.44	1972 Jul 12 2230	Black Brant VI	?	-	MDSS FP-022	-	-	-	FC	-	-	-	14	-	-
1972-W900	2441511.48	1972 Jul 12 2335	Black Brant VI	?	-	MDSS FP-021	-	-	-	FC	-	-	-	67	-	-
1972-A73	2441511.51	1972 Jul 13 0013	Black Brant VI	?	-	MDSS FP-023	-	-	-	FC	-	-	-	7	-	-
1972-W901	2441511.53	1972 Jul 13 0046	Black Brant VI	?	-	MDSS FP-025	-	-	-	FC	-	-	-	77	-	-
1972-A74	2441512.29	1972 Jul 13 1854	Black Brant VI	?	-	MDSS FP-028	-	-	-	FC	-	-	-	16	-	-
1972-W903	2441512.33	1972 Jul 13 1952	Black Brant VI	?	-	MDSS FP-029	-	-	-	FC	-	-	-	73	-	-
1972-W904	2441512.40	1972 Jul 13 2134	Black Brant VI	?	-	MDSS FP-027	-	-	-	FC	-	-	-	76	-	-
1972-W905	2441512.48	1972 Jul 13 2330	Black Brant VI	?	-	MDSS FP-026	-	-	-	FC	-	-	-	74	-	-
1972-W909	2441513.12	1972 Jul 14 1453	Black Brant VI	?	-	MDSS FP-024	-	-	-	FC	-	-	-	78	-	-
1973-W651	2441818.96	1973 May 16 1106	Black Brant VI	-	AAF-VI-01	Dust collector	-	-	-	FC	-	-	-	78	-	-
1974-W435	2442129.21	1974 Mar 22 1656	Black Brant VI	-	AAF-VI-02	Dust collector	-	-	-	FC	-	-	-	78	-	-
1974-Y128	2442133.40	1974 Mar 26 2130:00	Black Brant VI	-	AAF-VI-04	Dust collector	-	-	-	FC	-	-	-	81	-	-
1974-W555	2442160.69	1974 Apr 23 0431	Black Brant VI	-	AKF-VI-03	Auroral X-rays	-	-	-	FC	-	-	-	76	-	-
1974-W1691	2442187.50	1974 May 20	Black Brant VI	-	1-74	Quanah User Program	-	-	-	WS	-	-	-	78	-	-
1974-W1666	2442188.50	1974 May 21	Black Brant VI	-	2-74	STS	-	-	-	WS	-	-	-	75	-	-
1974-W1667	2442189.50	1974 May 22	Black Brant VI	-	3-74	STS	-	-	-	WS	-	-	-	74	-	-
1974-W1668	2442190.50	1974 May 23	Black Brant VI	-	4-74	STS	-	-	-	WS	-	-	-	73	-	-
1974-W1669	2442190.50	1974 May 23	Black Brant VI	-	5-74	STS	-	-	-	WS	-	-	-	67	-	-
1974-W1670	2442196.50	1974 May 29	Black Brant VI	-	6-74	STS	-	-	-	WS	-	-	-	71	-	-
1974-W1671	2442197.50	1974 May 30	Black Brant VI	-	7-74	STS	-	-	-	WS	-	-	-	85	-	-
1974-W1672	2442198.50	1974 May 31	Black Brant VI	-	8-74	STS	-	-	-	WS	-	-	-	86	-	-
1974-W1673	2442210.50	1974 Jun 12	Black Brant VI	-	9-74	STS	-	-	-	WS	-	-	-	67	-	-
1974-W1674	2442211.50	1974 Jun 13	Black Brant VI	-	10-74	STS	-	-	-	WS	-	-	-	74	-	-
1974-W1675	2442216.50	1974 Jun 18	Black Brant VI	-	11-74	STS	-	-	-	WS	-	-	-	57	-	-
1974-W1676	2442217.50	1974 Jun 19	Black Brant VI	-	12-74	STS	-	-	-	WS	-	-	-	69	-	-
1974-W1677	2442267.50	1974 Aug 8	Black Brant VI	-	13-74	STS	-	-	-	WS	-	-	-	69	-	-
1974-W1678	2442268.50	1974 Aug 9	Black Brant VI	-	14-74	STS	-	-	-	WS	-	-	-	70	-	-
1974-W1679	2442280.50	1974 Aug 21	Black Brant VI	-	15-74	STS/Starute	-	-	-	WS	-	-	-	81	-	-
1974-W1680	2442280.50	1974 Aug 21	Black Brant VI	-	16-74	STS/Starute	-	-	-	WS	-	-	-	75	-	-
1974-W1681	2442288.50	1974 Aug 29	Black Brant VI	-	17-74	STS/Starute	-	-	-	WS	-	-	-	70?	-	-
1974-W1682	2442294.50	1974 Sep 4	Black Brant VI	-	18-74	Ozone/Starute	-	-	-	WS	-	-	-	72	-	-
1974-W1683	2442340.50	1974 Oct 20	Black Brant VI	-	19-74	Ozone/Starute	-	-	-	WS	-	-	-	67	-	-
1974-W1684	2442366.50	1974 Nov 15	Black Brant VI	-	20-74	STS/Starute	-	-	-	WS	-	-	-	70?	-	-
1974-W1685	2442366.50	1974 Nov 15	Black Brant VI	-	21-74	STS/Starute	-	-	-	WS	-	-	-	70?	-	-
1974-W1686	2442370.50	1974 Nov 19	Black Brant VI	-	22-74	STS/Starute	-	-	-	WS	-	-	-	71	-	-
1974-W1687	2442372.50	1974 Nov 21	Black Brant VI	-	23-74	STS/Starute	-	-	-	WS	-	-	-	82	-	-
1974-W1688	2442372.50	1974 Nov 21	Black Brant VI	-	24-74	STS/Starute	-	-	-	WS	-	-	-	82	-	-
1974-W1689	2442377.50	1974 Nov 26	Black Brant VI	-	25-74	STS/Starute	-	-	-	WS	-	-	-	84	-	-
1974-W1690	2442391.50	1974 Dec 10	Black Brant VI	-	26-74	STS/Starute	-	-	-	WS	-	-	-	78	-	-
1975-W1453	2442448.50	1975 Feb 5	Black Brant VI	-	PF-1-75	Arctic test	-	-	-	PF	-	-	-	71	-	-
1975-W1454	2442448.50	1975 Feb 5	Black Brant VI	-	PF-2-75	Arctic test	-	-	-	PF	-	-	-	72	-	-
1975-W1455	2442449.50	1975 Feb 6	Black Brant VI	-	PF-3-75	Arctic test	-	-	-	PF	-	-	-	73	-	-
1975-W1456	2442449.50	1975 Feb 6	Black Brant VI	-	PF-4-75	Arctic test	-	-	-	PF	-	-	-	69	-	-
1975-W1457	2442450.50	1975 Feb 7	Black Brant VI	-	PF-5-75	Arctic test	-	-	-	PF	-	-	-	70?	-	-
1975-W1458	2442450.50	1975 Feb 7	Black Brant VI	-	PF-6-75	Arctic test	-	-	-	PF	-	-	-	74	-	-
1975-W1459	2442475.50	1975 Mar 4	Black Brant VI	-	1-75	STS/Starute	-	-	-	WS	-	-	-	74	-	-
1975-W1460	2442475.50	1975 Mar 4	Black Brant VI	-	2-75	STS/Starute	-	-	-	WS	-	-	-	79	-	-
1975-W1461	2442489.50	1975 Mar 18	Black Brant VI	-	3-75	STS/Starute	-	-	-	WS	-	-	-	76	-	-
1975-W1462	2442489.50	1975 Mar 18	Black Brant VI	-	4-75	STS/Starute	-	-	-	WS	-	-	-	78	-	-
1975-W1463	2442491.50	1975 Mar 20	Black Brant VI	-	5-75	12cm Sphere	-	-	-	WS	-	-	-	78	-	-
1975-W1464	2442496.50	1975 Mar 25	Black Brant VI	-	6-75	STS/Starute	-	-	-	WS	-	-	-	82	-	-
1975-W1465	2442496.50	1975 Mar 25	Black Brant VI	-	7-75	STS/Starute	-	-	-	WS	-	-	-	79	-	-
1975-W1466	2442499.50	1975 Mar 28	Black Brant VI	-	8-75	STS/Starute	-	-	-	WS	-	-	-	70	-	-
1975-W1467	2442499.50	1975 Mar 28	Black Brant VI	-	9-75	STS/Starute	-	-	-	WS	-	-	-	73	-	-
1975-W1468	2442534.50	1975 May 2	Black Brant VI	-	10-75	12cm Sphere	-	-	-	WS	-	-	-	78	-	-
1975-A80	2442544.50	1975 May 12	Black Brant VI	-	11-75	12cm Sphere	-	-	-	WS	-	-	-	0	-	-
1975-W1219	2442716.80	1975 Oct 31 0712	Black Brant VI	-	AKF-VI-07	[Not in FC]	-	-	-	FC	-	-	-	64	-	-
1976-W711	2442910.16	1976 May 11 1549	Black Brant VI	-	AAF-VI-10	Sep system tes	-	-	-	FC	-	-	-	60	-	-
1977-Y80	2443201.72	1977 Feb 27 0520	Black Brant VI	-	AQF-VI-05	Non-acoustic waves	-	-	-	FC	-	-	-	95	-	-
1977-W462	2443207.70	1977 Mar 5 0447	Black Brant VI	-	AKF-VI-09	Auroral X-rays	-	-	-	FC	-	-	-	60	-	-
1977-W472	2443210.67	1977 Mar 8 0406	Black Brant VI	-	AKF-VI-08	Auroral X-rays	-	-	-	FC	-	-	-	60	-	-
1978-Y58	2443547.68	1978 Feb 8 0423	Black Brant VI	-	AQF-VI-06	Coherent pulse radar	-	-	-	FC	-	-	-	95	-	-
1978-W241	2443566.73	1978 Feb 27 0532	Black Brant VI	-	AKF-VI-14	Auroral X-rays	-	-	-	FC	-	-	-	55	-	-
1978-W256	2443567.63	1978 Feb 28 0309	Black Brant VI	-	AKF-VI-15	Auroral X-rays	-	-	-	FC	-	-	-	57	-	-
1978-W444	2443617.30	1978 Apr 18 1918	Black Brant VI	-	AAF-VI-13	Dust collector	-	-	-	FC	-	-	-	75	-	-
1979-W547	2443990.76	1979 Apr 27 0609	Black Brant VI	-	AKF-VI-16	Auroral X-rays	-	-	-	FC	-	-	-	50?	-	-
1979-W556	2443991.78	1979 Apr 28 0644	Black Brant VI	-	AKF-VI-17	Auroral X-rays	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-M88	2440495.50	1969 Oct 1	Black Brant VI	-	RDT&E XM-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1972-W897	2441511.30	1972 Jul 12 1907	Black Brant VI	?	RDT&E?	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-W898	2441511.37	1972 Jul 12 2052	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A72	2441511.44	1972 Jul 12 2230	Black Brant VI	?	-	0.000	BAL	SF	U	BAL/	Test	FC	-	-
1972-W900	2441511.48	1972 Jul 12 2335	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A73	2441511.51	1972 Jul 13 0013	Black Brant VI	?	-	0.000	BAL	SF	U	BAL/	Test	FC	-	-
1972-W901	2441511.53	1972 Jul 13 0046	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A74	2441512.29	1972 Jul 13 1854	Black Brant VI	?	-	0.000	BAL	SF	U	BAL/	Test	FC	-	-
1972-W903	2441512.33	1972 Jul 13 1952	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-W904	2441512.40	1972 Jul 13 2134	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-W905	2441512.48	1972 Jul 13 2330	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-W909	2441513.12	1972 Jul 14 1453	Black Brant VI	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1973-W651	2441818.96	1973 May 16 1106	Black Brant VI	-	AAF-VI-01	0.000	NRCC	SS	-	NRCC/Wlochowicz	Aeron	WDCRF	-	-
1974-W435	2442129.21	1974 Mar 22 1656	Black Brant VI	-	AAF-VI-02	0.000	NRCC	SF	U	NRCC/Wlochowicz	Aeron	WDCRF	CASJ20,341	-
1974-Y128	2442133.40	1974 Mar 26 2130:00	Black Brant VI	-	AAF-VI-04	0.000	NRCC	SS	-	NRCC/Wlochowicz	Aeron	WDCRF	-	-
1974-W555	2442160.69	1974 Apr 23 0431	Black Brant VI	-	AKF-VI-03	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1974-W1691	2442187.50	1974 May 20	Black Brant VI	-	1-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1666	2442188.50	1974 May 21	Black Brant VI	-	2-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1667	2442189.50	1974 May 22	Black Brant VI	-	3-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1668	2442190.50	1974 May 23	Black Brant VI	-	4-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1669	2442190.50	1974 May 23	Black Brant VI	-	5-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1670	2442196.50	1974 May 29	Black Brant VI	-	6-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1671	2442197.50	1974 May 30	Black Brant VI	-	7-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1672	2442198.50	1974 May 31	Black Brant VI	-	8-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1673	2442210.50	1974 Jun 12	Black Brant VI	-	9-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1674	2442211.50	1974 Jun 13	Black Brant VI	-	10-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1675	2442216.50	1974 Jun 18	Black Brant VI	-	11-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1676	2442217.50	1974 Jun 19	Black Brant VI	-	12-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1677	2442267.50	1974 Aug 8	Black Brant VI	-	13-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1678	2442268.50	1974 Aug 9	Black Brant VI	-	14-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1679	2442280.50	1974 Aug 21	Black Brant VI	-	15-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1680	2442280.50	1974 Aug 21	Black Brant VI	-	16-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1681	2442288.50	1974 Aug 29	Black Brant VI	-	17-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1682	2442294.50	1974 Sep 4	Black Brant VI	-	18-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1683	2442340.50	1974 Oct 20	Black Brant VI	-	19-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1684	2442366.50	1974 Nov 15	Black Brant VI	-	20-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1685	2442366.50	1974 Nov 15	Black Brant VI	-	21-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1686	2442370.50	1974 Nov 19	Black Brant VI	-	22-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1687	2442372.50	1974 Nov 21	Black Brant VI	-	23-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1688	2442372.50	1974 Nov 21	Black Brant VI	-	24-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1689	2442377.50	1974 Nov 26	Black Brant VI	-	25-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1974-W1690	2442391.50	1974 Dec 10	Black Brant VI	-	26-74	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1453	2442448.50	1975 Feb 5	Black Brant VI	-	PF-1-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1454	2442448.50	1975 Feb 5	Black Brant VI	-	PF-2-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1455	2442449.50	1975 Feb 6	Black Brant VI	-	PF-3-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1456	2442449.50	1975 Feb 6	Black Brant VI	-	PF-4-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1457	2442450.50	1975 Feb 7	Black Brant VI	-	PF-5-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1458	2442450.50	1975 Feb 7	Black Brant VI	-	PF-6-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1459	2442475.50	1975 Mar 4	Black Brant VI	-	1-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1460	2442475.50	1975 Mar 4	Black Brant VI	-	2-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1461	2442489.50	1975 Mar 18	Black Brant VI	-	3-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1462	2442489.50	1975 Mar 18	Black Brant VI	-	4-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1463	2442491.50	1975 Mar 20	Black Brant VI	-	5-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1464	2442496.50	1975 Mar 25	Black Brant VI	-	6-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1465	2442496.50	1975 Mar 25	Black Brant VI	-	7-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1466	2442499.50	1975 Mar 28	Black Brant VI	-	8-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1467	2442499.50	1975 Mar 28	Black Brant VI	-	9-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-W1468	2442534.50	1975 May 2	Black Brant VI	-	10-75	0.000	ASL	SS	-	ASL/	Test	ECOM-5588	-	-
1975-A80	2442544.50	1975 May 12	Black Brant VI	-	11-75	0.000	ASL	SF	U	ASL/	Test	ECOM-5588	-	-
1975-W1219	2442716.80	1975 Oct 31 0712	Black Brant VI	-	AKF-VI-07	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1976-W711	2442910.16	1976 May 11 1549	Black Brant VI	-	AAF-VI-10	0.000	NRCC	SS	-	NRCC/Roberts	Test	WDCRF	-	-
1977-Y80	2443201.72	1977 Feb 27 0520	Black Brant VI	-	AQF-VI-05	0.000	NRCC	SS	-	UWO/Forsyth	Aeron	WDCRF	-	-
1977-W462	2443207.70	1977 Mar 5 0447	Black Brant VI	-	AKF-VI-09	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1977-W472	2443210.67	1977 Mar 8 0406	Black Brant VI	-	AKF-VI-08	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1978-Y58	2443547.68	1978 Feb 8 0423	Black Brant VI	-	AQF-VI-06	0.000	NRCC	SS	-	UWO/Forsyth	Ionos	WDCRF	FC	-
1978-W241	2443566.73	1978 Feb 27 0532	Black Brant VI	-	AKF-VI-14	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1978-W256	2443567.63	1978 Feb 28 0309	Black Brant VI	-	AKF-VI-15	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	WDCRF	-	-
1978-W444	2443617.30	1978 Apr 18 1918	Black Brant VI	-	AAF-VI-13	0.000	NRCC	SS	-	NRCC/Wlochowicz	Meteorites	WDCRF	-	-
1979-W547	2443990.76	1979 Apr 27 0609	Black Brant VI	-	AKF-VI-16	0.000	NRCC	SF	U	CALG/Venkatesan	Auroral	FC	-	-
1979-W556	2443991.78	1979 Apr 28 0644	Black Brant VI	-	AKF-VI-17	0.000	NRCC	SS	-	CALG/Venkatesan	Auroral	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A130	2440936.32	1970 Dec 15 1940	Black Brant VII	?	-	MDSS-001	-	-	-	FC	-	-	-	30?	-	-
1970-A132	2440937.16	1970 Dec 16 1544	Black Brant VII	?	-	MDSS-002	-	-	-	FC	-	-	-	30?	-	-
1970-A133	2440937.22	1970 Dec 16 1715	Black Brant VII	?	-	MDSS-003	-	-	-	FC	-	-	-	30?	-	-
1970-A135	2440937.35	1970 Dec 16 2026	Black Brant VII	?	-	MDSS-004	-	-	-	FC	-	-	-	30?	-	-
1971-A37	2441068.15	1971 Apr 26 1535	Black Brant VII	?	-	F-EXM-006	-	-	-	FC	-	-	-	29	-	-
1971-A39	2441068.21	1971 Apr 26 1702	Black Brant VII	?	-	F-EXM-005	-	-	-	FC	-	-	-	29	-	-
1971-A40	2441068.25	1971 Apr 26 1806	Black Brant VII	?	-	F-EXM-008	-	-	-	FC	-	-	-	37	-	-
1971-A41	2441068.31	1971 Apr 26 1933	Black Brant VII	?	-	F-EXM-009	-	-	-	FC	-	-	-	36	-	-
1971-A42	2441068.36	1971 Apr 26 2044	Black Brant VII	?	-	F-EXM-007	-	-	-	FC	-	-	-	32	-	-
1971-A44	2441077.11	1971 May 5 1443	Black Brant VII	?	-	F-EXM-010	-	-	-	FC	-	-	-	38	-	-
1971-A45	2441077.16	1971 May 5 1546	Black Brant VII	?	-	F-EXM-011	-	-	-	FC	-	-	-	36	-	-
1971-A46	2441077.20	1971 May 5 1645	Black Brant VII	?	-	F-EXM-012	-	-	-	FC	-	-	-	38	-	-
1971-A47	2441077.22	1971 May 5 1717	Black Brant VII	?	-	F-EXM-013	-	-	-	FC	-	-	-	34	-	-
1971-A48	2441077.27	1971 May 5 1825	Black Brant VII	?	-	F-EXM-014	-	-	-	FC	-	-	-	35	-	-
1971-A49	2441077.29	1971 May 5 1856	Black Brant VII	?	-	F-EXM-015	-	-	-	FC	-	-	-	35	-	-
1971-A50	2441077.31	1971 May 5 1924	Black Brant VII	?	-	F-EXM-016	-	-	-	FC	-	-	-	35	-	-
1972-A10	2441344.15	1972 Jan 27 1539	Black Brant VII	?	-	F-EXM-064	-	-	-	FC	-	-	-	38	-	-
1972-A11	2441344.27	1972 Jan 27 1832	Black Brant VII	?	-	F-EXM-065	-	-	-	FC	-	-	-	34	-	-
1972-A12	2441344.32	1972 Jan 27 1936	Black Brant VII	?	-	F-EXM-056	-	-	-	FC	-	-	-	34	-	-
1972-A13	2441344.41	1972 Jan 27 2148	Black Brant VII	?	-	F-EXM-052	-	-	-	FC	-	-	-	40	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A130	2440936.32	1970 Dec 15 1940	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1970-A132	2440937.16	1970 Dec 16 1544	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1970-A133	2440937.22	1970 Dec 16 1715	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1970-A135	2440937.35	1970 Dec 16 2026	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A37	2441068.15	1971 Apr 26 1535	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A39	2441068.21	1971 Apr 26 1702	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A40	2441068.25	1971 Apr 26 1806	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A41	2441068.31	1971 Apr 26 1933	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A42	2441068.36	1971 Apr 26 2044	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A44	2441077.11	1971 May 5 1443	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A45	2441077.16	1971 May 5 1546	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A46	2441077.20	1971 May 5 1645	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A47	2441077.22	1971 May 5 1717	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A48	2441077.27	1971 May 5 1825	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A49	2441077.29	1971 May 5 1856	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1971-A50	2441077.31	1971 May 5 1924	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A10	2441344.15	1972 Jan 27 1539	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A11	2441344.27	1972 Jan 27 1832	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A12	2441344.32	1972 Jan 27 1936	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-
1972-A13	2441344.41	1972 Jan 27 2148	Black Brant VII	?	-	0.000	BAL	SS	-	BAL/	Test	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A135	2441510.23	1972 Jul 11 1737	BLDT	-	AV-1	NASA BLDT AV-1	Supersonic	-	-	WS	-	-	-	44	-	-
1972-A136	2441525.20	1972 Jul 26 1655	BLDT	-	AV-2	NASA BLDT AV-2	Transonic	-	-	WS	-	-	-	41?	-	-
1972-A137	2441543.18	1972 Aug 13 1624:30	BLDT	-	AV-4	NASA BLDT AV-4	Supersonic	-	-	WS	-	-	-	45	-	-
1972-A138	2441549.24	1972 Aug 19 1745	BLDT	-	AV-3	NASA BLDT AV-3	Subsonic	-	-	WS	-	-	-	28	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A135	2441510.23	1972 Jul 11 1737	BLDT	-	AV-1	0.000	JPL	AF	U	-	Test	TN-D-7692	-	-
1972-A136	2441525.20	1972 Jul 26 1655	BLDT	-	AV-2	0.000	JPL	AS	-	-	Test	TN-D-7692	-	-
1972-A137	2441543.18	1972 Aug 13 1624:30	BLDT	-	AV-4	0.000	JPL	AS	-	-	Test	TR-3720295	-	-
1972-A138	2441549.24	1972 Aug 19 1745	BLDT	-	AV-3	0.000	JPL	AS	-	-	Test	TN-D-7692	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S180	2439580.50	1967 Apr	Belenos	-	-	-	-	-	-	CERES?	-	-	-	100	-	-
1968-S05	2439915.50	1968 Mar	Belenos	-	-	-	-	-	-	CERES?	-	-	-	100	-	-
1968-S06	2439915.50	1968 Mar	Belenos	-	-	-	-	-	-	CERES?	-	-	-	100	-	-
1968-S175	2439927.50	1968 Mar 12	Belisama	-	-	-	-	-	-	CERES?	-	-	-	90	-	-
1968-S07	2439855.50	1968	Belisama	-	-	-	-	-	-	CEM?	-	-	-	90	-	-
1969-S01	2440221.50	1969	Belisama	-	-	-	-	-	-	CEM?	-	-	-	90	-	-
1969-S156	2440280.50	1969 Mar?	Grannos	-	-	-	-	-	-	CEM	-	-	-	130	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S180	2439580.50	1967 Apr	Belenos	-	-	0.000	SECT	SS	-	SECT/	Meteo	ESRO-SP39	-	-
1968-S05	2439915.50	1968 Mar	Belenos	-	-	0.000	SECT	SS	-	SECT/	Meteo	ESRO-SP39	-	-
1968-S06	2439915.50	1968 Mar	Belenos	-	-	0.000	SECT	SS	-	SECT/	Meteo	ESRO-SP39	-	-
1968-S175	2439927.50	1968 Mar 12	Belisama	-	-	0.000	SECT?	SS	-	SECT/?	Meteo	ESRO-SP39	-	-
1968-S07	2439855.50	1968	Belisama	-	-	0.000	SECT?	SS	-	SECT/?	Meteo	ESRO-SP39	-	-
1969-S01	2440221.50	1969	Belisama	-	-	0.000	SECT?	SS	-	SECT/?	Meteo	ESRO-SP39	-	-
1969-S156	2440280.50	1969 Mar?	Grannos	-	-	0.000	SECT	SS	-	CFTH/	Test	ATWA70-71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-M16	2437443.50	1961 May 24	Belier	-	B05	-	-	-	-	HMG	Bacchus	-	-	60?	-	-
1961-M17	2437444.50	1961 May 25	Belier	-	B06	-	-	-	-	HMG	Bacchus	-	-	60?	-	-
1962-A75	2437793.50	1962 May 9	Belier	-	B02	-	-	-	-	CERES	-	-	-	0?	-	-
1962-A78	2437799.50	1962 May 15	Belier	-	B03	-	-	-	-	CERES	-	-	-	0?	-	-
1962-M08	2437800.50	1962 May 16	Belier	-	B04	-	-	-	-	CERES	-	-	-	60?	-	-
1962-M09	2437813.50	1962 May 29	Belier	-	B07	Radioactivity	-	-	-	HMG	Bacchus	-	-	60?	-	-
1962-A92	2437821.50	1962 Jun 6	Belier	-	B08	Radioactivity	-	-	-	HMG	Bacchus	-	-	0?	-	-
1962-M32	2437989.50	1962 Nov 21	Belier	-	B45	-	-	-	-	CERES	-	-	-	70	-	-
1962-M33	2437990.50	1962 Nov 22	Belier	-	B41	-	-	-	-	CERES	-	-	-	60	-	-
1963-M29	2438155.50	1963 May 6	Belier	-	B01	Radioactivity	-	-	-	HMG	Bacchus	-	-	94	-	-
1963-M38	2438234.50	1963 Jul 24	Belier	-	B73	-	-	-	-	CERES	-	-	-	60?	-	-
1964-M26	2438709.50	1964 Nov 10	Belier	-	B69	CNES FU-113	-	-	-	CERES	-	-	-	68	-	-
1966-M26	2439327.21	1966 Jul 20 1701:07	Belier	-	ESRO B12/1	ESRO B12/1 Neutrons	-	-	-	SDQ	-	-	-	65	-	-
1966-M28	2439332.26	1966 Jul 25 1810:00	Belier	-	ESRO B12/2	ESRO B12/2 Neutrons	-	-	-	SDQ	-	-	-	67	-	-
1968-A67	2439933.50	1968 Mar 18	Belier III	-	B301	FU-173B	-	-	-	CEL	-	-	-	0?	-	-
1968-S317	2439990.50	1968 May 14	Belier III	-	B306	FU-193	-	-	-	SDQ	-	-	-	130	-	-
1969-S165	2440286.50	1969 Mar 6	Belier III	-	B304	FU-173	Belier CSG 0	-	-	CSG	ALFS	-	-	60	-	-
1969-M14	2440330.50	1969 Apr 19	Belier	-	B116	FU-191	Belier CSG 1	-	-	CSG	ALFS	-	-	70	-	-
1969-M27	2440451.50	1969 Aug 18	Belier	-	B117	FU-191B	Belier CSG 2	-	-	CSG	ALFS	-	-	67	-	-
1969-M31	2440489.50	1969 Sep 25	Belier III	-	B307	CRAPEL/ELECTRE	-	-	-	CEL	-	-	-	60?	-	-
1970-M04	2440620.50	1970 Feb 3	Belier	-	B139	FU-191C	Belier CSG 3	-	-	CSG	ALFS	-	-	64	-	-
1970-M26	2440896.50	1970 Nov 6	Belier	-	B140	FU-191D Range test	Belier CSG 4	-	-	CSG	ALFS	-	-	58	-	-
1971-S680	2441215.75	1971 Sep 21 0600	RH-300	-	-	Partial charge	-	-	-	TERLS	-	-	-	80?	-	-
1973-S575	2441872.50	1973 Jul 9	RH-300	-	RH-300-01	-	-	-	-	SHAR	RH	-	-	100?	-	-
1975-S414	2442583.50	1975 Jun 20	RH-300	-	RH-300-02	-	-	-	-	SHAR	RH	-	-	100?	-	-
1975-S415	2442584.50	1975 Jun 21	RH-300	-	RH-300-03	-	-	-	-	SHAR	RH	-	-	100?	-	-
1975-S357	2442681.50	1975 Sep 26	RH-300	-	-	First Flight	-	-	-	TERLS	-	-	-	130?	-	-
1977-S452	2443181.50	1977 Feb 7	RH-300	-	RH-300-16	-	-	-	-	SHAR	RH	-	-	100?	-	-
1977-S453	2443183.50	1977 Feb 9	RH-300	-	RH-300-15	-	-	-	-	SHAR	RH	-	-	100?	-	-
1978-S114	2443616.50	1978 Apr 18	RH-300	-	-	AST 1	-	-	-	TERLS	-	-	-	130	-	-
1983-S309	2445354.50	1983 Jan 20	RH-300	-	RH-300-1 (IPP-40)	IPP-40 propellant test	-	-	-	TERLS	-	-	-	150?	-	-
1983-S312	2445477.50	1983 May 23	RH-300	-	RH-300-2 (IPP-40)	IPP-40 propellant test	-	-	-	TERLS	-	-	-	150?	-	-
1983-S313	2445611.50	1983 Oct 4	RH-300	-	RH-300-3 (IPP-40)	IPP-40 propellant test	-	-	-	TERLS	-	-	-	150?	-	-
1985-S131	2446354.50	1985 Oct 16	SO-300-200	-	T1	ASLV Strapon Test	-	-	-	SHAR	-	-	-	100?	-	-
1986-A21	2446495.50	1986 Mar 6	RH-300	-	-	Langmuir probe	-	-	-	TERLS	-	-	-	10	-	-
1986-S119	2446499.67	1986 Mar 10 0405	RH-300	-	-	D-REG IONIZ. COMP.	-	-	-	TERLS	-	-	-	110	-	-
1986-S121	2446706.71	1986 Oct 3 0505	RH-300	-	-	AEROSOL PRECAMP. II	-	-	-	TERLS	-	-	-	88	-	-
1986-S120	2446740.63	1986 Nov 6 0310	RH-300	-	-	AEROSOL PRECAMP. II	-	-	-	TERLS	-	-	-	92	-	-
1987-S97	2446954.50	1987 Jun 8	RH-300 Mk II	-	RH-300-Mk2-01	Test (IPP-40)	-	-	-	SHAR	-	-	-	135	-	-
1987-S236	2447068.50	1987 Sep 30	RH-300 Mk II	-	RH-300-Mk2-02	Test	-	-	-	SHAR	-	-	-	158	-	-
1988-S186	2447334.50	1988 Jun 22	RH-300 Mk II	-	RH-300-Mk2-03	Test	-	-	-	SHAR	-	-	-	130?	-	-
1988-S188	2447263.65	1988 Apr 12 0340	RH-300	-	-	D-REG IONIZ. COMP.	-	-	-	TERLS	-	-	-	110?	-	-
1988-S189	2447471.63	1988 Nov 6 0310	RH-300	-	-	D-REG IONIZ. COMP.	-	-	-	TERLS	-	-	-	110?	-	-
1989-S138	2447795.50	1989 Sep 26	RH-300 Mk II	-	RH-300-Mk2-04?	IMAP-C Ledge	-	-	-	TERLS	-	-	-	110?	-	-
1989-S137	2447881.50	1989 Dec 21	RH-300 Mk II	-	RH-300-MK2-05?	HTPB-01	-	-	-	SHAR	-	-	-	130?	-	-
1990-S196	2448033.50	1990 May 22	RH-300 Mk II	-	RH-300-MK2-06?	HTPB-02	-	-	-	SHAR	-	-	-	130?	-	-
1991-S218	2448469.50	1991 Aug 1	RH-300 Mk II	-	RH-300-MK2-07?	HTPB-03	-	-	-	SHAR	-	-	-	130?	-	-
1993-S02	2448987.50	1993	RH-300	-	-	-	-	-	-	TERLS	Pad 5	-	-	100?	-	-
1993-S03	2448987.50	1993	RH-300	-	-	-	-	-	-	TERLS	Pad 5	-	-	100?	-	-
1997-M05	2450773.23	1997 Nov 20 1730	RH-300 Mk II	-	RH-300-Mk2-08?	ISBJORN-1	Ferdinand-110	-	-	SVAL	-	-	-	71	-	-
1999-S77	2451500.58	1999 Nov 18 0155	RH-300 Mk II	-	RH-300-Mk2-09?	LMS	-	-	-	SHAR	-	-	-	135	-	-
1999-S78	2451502.57	1999 Nov 20 0135	RH-300 Mk II	-	RH-300-Mk2-10?	LMS	-	-	-	SHAR	-	-	-	135	-	-
2004-S74	2453209.76	2004 Jul 23 0612	RH-300 Mk II	-	RH-300-Mk2-11?	MTS Meso. Turbulence	Chaff	-	-	SHAR	-	-	-	109	-	-
2005-S60	2453468.75	2005 Apr 8 0556	RH-300 Mk II	-	RH-300-Mk2-12?	MTS	Range Test	-	-	SDSC	-	-	-	130?	-	-
2005-S66	2453701.75	2005 Nov 27 0553	RH-300 Mk II	-	RH-300-Mk2-13?	Langmuir probe	-	-	-	TERLS	-	-	-	109	-	-
2007-S81	2454116.20	2007 Jan 15 1643	RH-300 Mk II	-	RH-300-Mk2-14?	Langmuir probe	-	-	-	TERLS	-	-	-	127	-	-
2008-S90	2454495.16	2008 Jan 29 1549	RH-300 Mk II	-	RH-300-Mk2-15?	Langmuir probe	-	-	-	TERLS	-	-	-	118	-	-
2010-S03	2455210.78	2010 Jan 14 0650	RH-300 Mk II	-	RH-300-Mk2-16?	Eclipse	-	-	-	TERLS	-	-	-	116	-	-
2010-S04	2455210.82	2010 Jan 14 0735	RH-300 Mk II	-	RH-300-Mk2-17?	Eclipse	-	-	-	TERLS	-	-	-	116	-	-
2010-S06	2455211.79	2010 Jan 15 0700?	RH-300 Mk II	-	RH-300-Mk2-18?	Eclipse	-	-	-	TERLS	-	-	-	116	-	-
2010-S07	2455211.81	2010 Jan 15 0730?	RH-300 Mk II	-	RH-300-Mk2-19?	Eclipse	-	-	-	TERLS	-	-	-	116	-	-
2010-S08	2455211.94	2010 Jan 15 1030	RH-300 Mk II	-	RH-300-Mk2-20?	Eclipse	-	-	-	TERLS	-	-	-	116	-	-
2018-S36	2458215.08	2018 Apr 6 1400	RH-300 Mk II	-	RH-300-Mk2-21	SOUREX	TMA/LP/ENW	-	-	TERLS	-	-	-	107	-	-
2022-S85	2459825.78	2022 Sep 3 0650	RH-300 Mk II	-	RH-300-Mk2	IAD	Decelerator test	-	-	TERLS	-	-	-	84?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-M16	2437443.50	1961 May 24	Belier	-	B05	0.000	CNET	SS	-	CNES/?	Test	AASH33-143	-	-
1961-M17	2437444.50	1961 May 25	Belier	-	B06	0.000	CNET	SS	-	CNES/?	Test	AASH33-143	-	-
1962-A75	2437793.50	1962 May 9	Belier	-	B02	0.000	CNES	SF	U	CNET/	Test	CNES	-	-
1962-A78	2437799.50	1962 May 15	Belier	-	B03	0.000	CNES	SF	U	CNET/	Test	CNES	-	-
1962-M08	2437800.50	1962 May 16	Belier	-	B04	0.000	CNES	SS	-	CNET/	Test	CNES	-	-
1962-M09	2437813.50	1962 May 29	Belier	-	B07	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-A92	2437821.50	1962 Jun 6	Belier	-	B08	0.000	CNES	SF	U	CNRS/Blamont	Aeronomy	CNES	-	-
1962-M32	2437989.50	1962 Nov 21	Belier	-	B45	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-M33	2437990.50	1962 Nov 22	Belier	-	B41	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-M29	2438155.50	1963 May 6	Belier	-	B01	0.000	CNES	SS	-	CNRS/Bernateau	Aeronomy	CNES	-	-
1963-M38	2438234.50	1963 Jul 24	Belier	-	B73	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-M26	2438709.50	1964 Nov 10	Belier	-	B69	0.000	CNES	SS	-	LPA/Vassy	Aeronomy	CNES	-	-
1966-M26	2439327.21	1966 Jul 20 1701:07	Belier	-	ESRO B12/1	0.000	ESRO	SS	-	MILAN/Occhialini	Ionospheric	ESRO-SP77	-	-
1966-M28	2439332.26	1966 Jul 25 1810:00	Belier	-	ESRO B12/2	0.000	ESRO	SS	-	MILAN/Occhialini	Ionospheric	ESRO-SP77	-	-
1968-A67	2439933.50	1968 Mar 18	Belier III	-	B301	0.000	CNES	SF	U	CNES/Cade	Test	CNES	-	-
1968-S317	2439990.50	1968 May 14	Belier III	-	B306	0.000	ESRO/CNES	SS	-	CNES/Cade	Test	Serra	CNES	-
1969-S165	2440286.50	1969 Mar 6	Belier III	-	B304	0.000	CNES	SS	-	CNES/Cade	Test	CNES	-	-
1969-M14	2440330.50	1969 Apr 19	Belier	-	B116	0.000	CNES	SS	-	CNES/CSG/	Test	CNES	-	-
1969-M27	2440451.50	1969 Aug 18	Belier	-	B117	0.000	CNES	SS	-	CNES/CSG/	Test	CNES	-	-
1969-M31	2440489.50	1969 Sep 25	Belier III	-	B307	0.000	ONERA	SS	-	ONERA/	Reentry Test	Serra	-	-
1970-M04	2440620.50	1970 Feb 3	Belier	-	B139	0.000	CNES	SS	-	CNES/CSG/	Test	CNES	-	-
1970-M26	2440896.50	1970 Nov 6	Belier	-	B140	0.000	CNES	SS	-	CNES/CSG/	Test	CNES	-	-
1971-S680	2441215.75	1971 Sep 21 0600	RH-300	-	-	0.000	ISRO	SS	-	ISRO/	Test	FDC/Ulrich	-	-
1973-S575	2441872.50	1973 Jul 9	RH-300	-	RH-300-01	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1975-S414	2442583.50	1975 Jun 20	RH-300	-	RH-300-02	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1975-S415	2442584.50	1975 Jun 21	RH-300	-	RH-300-03	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1975-S357	2442681.50	1975 Sep 26	RH-300	-	-	0.000	ISRO	SS	-	ISRO/	Test	Serra	IJRSP15,412	AASH33-143
1977-S452	2443181.50	1977 Feb 7	RH-300	-	RH-300-16	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-S453	2443183.50	1977 Feb 9	RH-300	-	RH-300-15	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1978-S114	2443616.50	1978 Apr 18	RH-300	-	-	0.000	ISRO	SS	-	DFVLR/ISRO/Mayer	Technology	ESA-SP152-9	-	-
1983-S309	2445354.50	1983 Jan 20	RH-300	-	RH-300-1 (IPP-40)	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	Rao2015	-
1983-S312	2445477.50	1983 May 23	RH-300	-	RH-300-2 (IPP-40)	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1983-S313	2445611.50	1983 Oct 4	RH-300	-	RH-300-3 (IPP-40)	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1985-S131	2446354.50	1985 Oct 16	SD-300-200	-	T1	0.000	ISRO	SS	-	ISRO/	Test	Rao2015	SFLT28-433	-
1986-A21	2446495.50	1986 Mar 6	RH-300	-	-	0.000	ISRO	SF	U	ISRO/	Ionos	Serra	-	-
1986-S119	2446499.67	1986 Mar 10 0405	RH-300	-	-	0.000	ISRO	SS	-	PRL/NPL/	Aeron	IJRSP24,35	ASR6,6,330	-
1986-S121	2446706.71	1986 Oct 3 0505	RH-300	-	-	0.000	ISRO	SS	-	PRL/NPL/	Aeron	AdvSpaRes10,10,123	+ASR6,6,330	-
1986-S120	2446740.63	1986 Nov 6 0310	RH-300	-	-	0.000	ISRO	SS	-	PRL/NPL/	Aeron	AdvSpaRes10,10,123	-	-
1987-S97	2446954.50	1987 Jun 8	RH-300 Mk II	-	RH-300-Mk2-01	0.000	ISRO	SS	-	ISRO/	Test	JSD2000	-	-
1987-S236	2447068.50	1987 Sep 30	RH-300 Mk II	-	RH-300-Mk2-02	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1988-S186	2447334.50	1988 Jun 22	RH-300 Mk II	-	RH-300-Mk2-03	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1988-S188	2447263.65	1988 Apr 12 0340	RH-300	-	-	0.000	ISRO	SS	-	PRL/NPL/	Aeron	Serra	ASR6,6,330	Das thesis
1988-S189	2447471.63	1988 Nov 6 0310	RH-300	-	-	0.000	ISRO	SS	-	PRL/NPL/	Aeron	Serra	ASR6,6,330	-
1989-S138	2447795.50	1989 Sep 26	RH-300 Mk II	-	RH-300-Mk2-04?	0.000	ISRO	SS	-	NPL/	Aeron/Ionos	NPL89-90	-	-
1989-S137	2447881.50	1989 Dec 21	RH-300 Mk II	-	RH-300-MK2-05?	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1990-S196	2448033.50	1990 May 22	RH-300 Mk II	-	RH-300-MK2-06?	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1991-S218	2448469.50	1991 Aug 1	RH-300 Mk II	-	RH-300-MK2-07?	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1993-S02	2448987.50	1993	RH-300	-	-	0.000	ISRO	SS	-	PRL/?	Ionos?	TERLSPrivCom	-	-
1993-S03	2448987.50	1993	RH-300	-	-	0.000	ISRO	SS	-	PRL/?	Ionos?	TERLSPrivCom	-	-
1997-M05	2450773.23	1997 Nov 20 1730	RH-300 Mk II	-	RH-300-Mk2-08?	0.000	NDRE	SF	U	NDRE/Thrane	Ionos	AND-WWW	SN971215-11	-
1999-S77	2451500.58	1999 Nov 18 0155	RH-300 Mk II	-	RH-300-Mk2-09?	0.000	ISRO	SS	-	PRL/Gupta	Ionosphere/Meteor	TheHindu991121	CurrSci84,1340	-
1999-S78	2451502.57	1999 Nov 20 0135	RH-300 Mk II	-	RH-300-Mk2-10?	0.000	ISRO	SS	-	PRL/Gupta	Ionosphere/Meteor	TheHindu991121	CurrSci84,1340	-
2004-S74	2453209.76	2004 Jul 23 0612	RH-300 Mk II	-	RH-300-Mk2-11?	0.000	ISRO	SS	-	PRL/Chandra	Aeron	COSPAR2006-A-00253	AnnGeo26,2725	-
2005-S60	2453468.75	2005 Apr 8 0556	RH-300 Mk II	-	RH-300-Mk2-12?	0.000	ISRO	SS	-	PRL/Chandra	Aeron	narl.gov.in	ISROReport2006	-
2005-S66	2453701.75	2005 Nov 27 0553	RH-300 Mk II	-	RH-300-Mk2-13?	0.000	ISRO	SS	-	PRL/Sinha	Aeron	CurrSci99,1,10	-	-
2007-S81	2454116.20	2007 Jan 15 1643	RH-300 Mk II	-	RH-300-Mk2-14?	0.000	ISRO	SS	-	PRL/Sinha	Aeron	JGR115,A11308	-	-
2008-S90	2454495.16	2008 Jan 29 1549	RH-300 Mk II	-	RH-300-Mk2-15?	0.000	ISRO	SS	-	PRL/Sinha	Aeron	JASTP73,2444	-	-
2010-S03	2455210.78	2010 Jan 14 0650	RH-300 Mk II	-	RH-300-Mk2-16?	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-S04	2455210.82	2010 Jan 14 0735	RH-300 Mk II	-	RH-300-Mk2-17?	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-S06	2455211.79	2010 Jan 15 0700?	RH-300 Mk II	-	RH-300-Mk2-18?	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-S07	2455211.81	2010 Jan 15 0730?	RH-300 Mk II	-	RH-300-Mk2-19?	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-S08	2455211.94	2010 Jan 15 1030	RH-300 Mk II	-	RH-300-Mk2-20?	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2018-S36	2458215.08	2018 Apr 6 1400	RH-300 Mk II	-	RH-300-Mk2-21	0.000	ISRO	SS	-	VSSC/	Aeron	www.isro.org	-	-
2022-S85	2459825.78	2022 Sep 3 0650	RH-300 Mk II	-	RH-300-Mk2	0.000	ISRO	SS	-	VSSC/	Reentry test	www.isro.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W68	2439921.50	1968 Mar 6	Epona	-	1	-	-	-	-	CERES?	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W68	2439921.50	1968 Mar 6	Epona	-	1	0.000	CNES?	SS	-	MNF/	Meteo	ATWA70-71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A109	2440400.46	1969 Jun 27 2258	Black Arrow	BA0	R-0	-	-	-	-	WOO	LA5B	-	-	4	-	-
1970-S187	2440649.39	1970 Mar 3 2115	Black Arrow	BA0	R-1	-	-	-	-	WOO	LA5B	-	-	550	-	-
1970-F07	2440831.52	1970 Sep 2 0034:05	Black Arrow	-	R-2	X-2	X-2	-	-	WOO	LA5B	-	-	550	-	-
1971-093	2441252.67	1971 Oct 28 0409:29	Black Arrow	-	R-3	X-3	X-3	-	-	WOO	LA5B	-	-	1595	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A109	2440400.46	1969 Jun 27 2258	Black Arrow	BA0	R-0	0.000	RAE	TF	FF	-	Test	Morton	-	Broke up
1970-S187	2440649.39	1970 Mar 3 2115	Black Arrow	BA0	R-1	0.000	RAE	TS	-	-	Test	Morton	-	-
1970-F07	2440831.52	1970 Sep 2 0034:05	Black Arrow	-	R-2	0.082	RAE	OF	S3G?	G	Sat LEO O	Wroughton	Morton	S3 wrong attitude?
1971-093	2441252.67	1971 Oct 28 0409:29	Black Arrow	-	R-3	0.067	RAE	OS	-	G	Sat LEO O	TR-HSE-0199	Morton	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-S195	2436453.94	1958 Sep 7 1033	Black Knight	201	BK.01	H01/Proving Trial	-	-	-	WOO	LA5A	-	-	225	-	-
1959-S25	2436639.95	1959 Mar 12 1050	Black Knight	201	BK.03	H02/Proving Trial	-	-	-	WOO	LA5A	-	-	537	-	-
1959-S86	2436731.04	1959 Jun 11 1303	Black Knight	201	BK.04	H03	-	-	-	WOO	LA5A	-	-	803	-	-
1959-S100	2436748.98	1959 Jun 29 1133	Black Knight	201	BK.05	H05	-	-	-	WOO	LA5A	-	-	442	-	-
1959-S228	2436871.99	1959 Oct 30 1149	Black Knight	201	BK.06	H06	-	-	-	WOO	LA5A	-	-	732	-	-
1960-S102	2437078.98	1960 May 24 1130	Black Knight	201/C	BK.08	H-201	-	-	-	WOO	LA5A	-	-	563	-	-
1960-S135	2437106.92	1960 Jun 21 1005	Black Knight	201/C	BK.09	H-202	-	-	-	WOO	LA5A	-	-	484	-	-
1960-S194	2437141.00	1960 Jul 25 1154	Black Knight	201	BK.07	H11	-	-	-	WOO	LA5A	-	-	531	-	-
1961-S37	2437338.03	1961 Feb 7 1246	Black Knight	201	BK.13	H14	-	-	-	WOO	LA5A	-	-	687	-	-
1961-S140	2437429.00	1961 May 9 1207	Black Knight	201/C	BK.14	H-204	-	-	-	WOO	LA5A	-	-	415	-	-
1961-S170	2437457.97	1961 Jun 7 1120	Black Knight	201/C	BK.17 UK-1 probe	H-203	-	-	-	WOO	LA5B	-	-	583	-	-
1962-S118	2437786.05	1962 May 1 1313	Black Knight	201	BK.15	H16	-	-	-	WOO	LA5B	-	-	795	-	-
1962-S311	2437900.98	1962 Aug 24 1138	Black Knight	301/C	BK.16	H-205	-	-	-	WOO	LA5A	-	-	573	-	-
1962-S502	2437998.19	1962 Nov 29 1633	Black Knight	301/C	BK.18	H-209	-	-	-	WOO	LA5A	-	-	576	-	-
1963-S498	2438319.95	1963 Oct 17 1052	Black Knight	201	BK.11	Blue Streak Test	-	-	-	WOO	LA5	-	-	527	-	-
1964-S139	2438465.50	1964 Mar 11	Black Knight	201/C2	BK.12	Cuckoo II Test	-	-	-	WOO	LA5	-	-	500	-	-
1964-S403	2438613.22	1964 Aug 5 1715:05	Black Knight	301/C2	BK.19	H-210/Dazzle 1	-	-	-	WOO	LA5	-	-	602	-	-
1964-S597	2438706.07	1964 Nov 6 1345:06	Black Knight	301/C2	BK.20	H-206/Dazzle 2	-	-	-	WOO	LA5	-	-	629	-	-
1965-S243	2438871.96	1965 Apr 21 1101:47	Black Knight	301/C2	BK.21	H-211/Dazzle 3	-	-	-	WOO	LA5	-	-	651	-	-
1965-S436	2438968.25	1965 Jul 26 1759:38	Black Knight	301/C2	BK.23	H-207 II/Dazzle 4	-	-	-	WOO	LA5	-	-	492	-	-
1965-S518	2439032.11	1965 Sep 28 1435:00	Black Knight	301/C2	BK.24	H-208 V/Dazzle 5	-	-	-	WOO	LA5	-	-	605	-	-
1965-S650	2439090.06	1965 Nov 25 1320:00	Black Knight	301/C2	BK.25	H-212 II/Dazzle 6	-	-	-	WOO	LA5	-	-	632	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-S195	2436453.94	1958 Sep 7 1033	Black Knight	201	BK.01	0.000	RAE	MS	-	-	Test	TNSpace57	Morton	-
1959-S25	2436639.95	1959 Mar 12 1050	Black Knight	201	BK.03	0.000	RAE	MS	-	-	Test	TNSpace57	Morton	-
1959-S86	2436731.04	1959 Jun 11 1303	Black Knight	201	BK.04	0.000	RAE	MS	-	-	Test	TNSpace57	Morton	-
1959-S100	2436748.98	1959 Jun 29 1133	Black Knight	201	BK.05	0.000	RAE	MS	-	-	Test	TNSpace57	Morton	-
1959-S228	2436871.99	1959 Oct 30 1149	Black Knight	201	BK.06	0.000	RAE	MS	-	RAE/ICST/Dawton,Quenby	Reentry Test/CR	TNSpace57	SR1/967	-
1960-S102	2437078.98	1960 May 24 1130	Black Knight	201/C	BK.08	0.000	RAE	MF	S2	-	Reentry Test	TNSpace57	Morton	-
1960-S135	2437106.92	1960 Jun 21 1005	Black Knight	201/C	BK.09	0.000	RAE	MS	-	RAE/ICST/	Reentry Test/Ionos	TNSpace57	Morton	-
1960-S194	2437141.00	1960 Jul 25 1154	Black Knight	201	BK.07	0.000	RAE	MS	-	RAE/ICST/UCL/	Reentry/CR/Ionos	TNSpace57	Morton	-
1961-S37	2437338.03	1961 Feb 7 1246	Black Knight	201	BK.13	0.000	RAE	MS	-	RAE/UCL/JBO/	Reentry/RF Astron/Ionos	TNSpace57	Morton	-
1961-S140	2437429.00	1961 May 9 1207	Black Knight	201/C	BK.14	0.000	RAE	MF	S2	ICST/UCL/	Reentry/CR/Ionos	TNSpace57	Morton	-
1961-S170	2437457.97	1961 Jun 7 1120	Black Knight	201/C	BK.17 UK-1 probe	0.000	RAE	SF	S2	ICST/UCL/JBO/	Reentry/RF Astron/Ionos	TNSpace57	Morton	-
1962-S118	2437786.05	1962 May 1 1313	Black Knight	201	BK.15	0.000	RAE	SS	-	ICST/UCL/Norman	Reentry Test/Ionos	TNSpace57	PlanSpaSci13,1	-
1962-S311	2437900.98	1962 Aug 24 1138	Black Knight	301/C	BK.16	0.000	RAE	SS	-	ICST/UCL/	Reentry Test/Ionos	TNSpace57	-	-
1962-S502	2437998.19	1962 Nov 29 1633	Black Knight	301/C	BK.18	0.000	RAE	MS	-	RAE/UCL/	Reentry Test/Ionos	TNSpace57	-	-
1963-S498	2438319.95	1963 Oct 17 1052	Black Knight	201	BK.11	0.000	ELDO/RAE	MS	-	-	Test	Wroughton	-	-
1964-S139	2438465.50	1964 Mar 11	Black Knight	201/C2	BK.12	0.000	RAE	MS	-	-	Reentry Test	FI640723-162	-	-
1964-S403	2438613.22	1964 Aug 5 1715:05	Black Knight	301/C2	BK.19	0.000	RAE	MS	-	-	Reentry Test	TN-68076	-	-
1964-S597	2438706.07	1964 Nov 6 1345:06	Black Knight	301/C2	BK.20	0.000	RAE	SS	-	UCL/	Reentry Test/Aeron	TN-68076	-	-
1965-S243	2438871.96	1965 Apr 21 1101:47	Black Knight	301/C2	BK.21	0.000	RAE	SS	-	UCL/	Reentry Test/Ionos	TN-68076	-	-
1965-S436	2438968.25	1965 Jul 26 1759:38	Black Knight	301/C2	BK.23	0.000	RAE	MS	-	-	Reentry Test	TN-68076	-	-
1965-S518	2439032.11	1965 Sep 28 1435:00	Black Knight	301/C2	BK.24	0.000	RAE	MS	-	-	Reentry Test	TN-68076	-	-
1965-S650	2439090.06	1965 Nov 25 1320:00	Black Knight	301/C2	BK.25	0.000	RAE	MS	-	-	Reentry Test	TN-68076	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2000-A06	2451801.88	2000 Sep 14 0900	Black Sparrow	-	-	-	-	-	F-15D-I	PALB?	RW03/21	PALB	LP1	40?	-	-
2001-A06	2452148.50	2001 Aug 27	Black Sparrow	-	-	-	-	-	F-15D-I	PALB?	RW03/21	PALB	LP1	40?	-	-
2003-A18	2452989.50	2003 Dec 16	Black Sparrow	-	-	-	-	-	F-15D-I	PALB?	RW03/21	PALB	LP1	40?	-	-
2005-A08	2453706.85	2005 Dec 2 0827?	Black Sparrow	-	-	-	-	-	F-15D-I	PALB?	RW03/21	PALB	LP1	40?	-	-
2007-A10	2454142.50	2007 Feb 11	Black Sparrow	-	-	-	-	-	F-15D-I	PALB?	RW03/21	PALB	LP1	40?	-	-
2008-S15	2454571.50	2008 Apr 15	Blue Sparrow	-	1	-	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2011-A39	2455880.50	2011 Nov 15	Black Sparrow	-	-	Aster 30 Target	-	-	F-15D-I	CAZ	RW06/24	DGAEML	LP1	40?	-	-
2012-S45	2455967.88	2012 Feb 10 0900	Blue Sparrow	-	2	Radar target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2013-S114	2456357.50	2013 Mar 6	Black Sparrow	-	-	Aster 30 Target	-	-	F-15D-715	CAZ	RW06/24	DGAEML	LP1	100?	-	-
2013-S57	2456538.76	2013 Sep 3 0616	Silver Sparrow	-	-	Radar target	Ankor	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	150?	1255	Med Sea
2014-S56	2456909.50	2014 Sep 9	Blue Sparrow	-	3	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2014-S80	2457007.50	2014 Dec 16	Silver Sparrow	?	-	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2015-S85	2457366.76	2015 Dec 10 0612	Silver Sparrow	-	-	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2017-A01	2457778.50	2017 Jan 25	Black Sparrow	-	-	DST-5 Target	David's Sling Target	-	F-15D-706	PALB	RW03/21	PALB	LP1	20?	-	-
2019-S04	2458505.50	2019 Jan 22	Silver Sparrow	?	-	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2020-S24	2459073.50	2020 Aug 12	Silver Sparrow	?	-	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-
2022-S02	2459597.50	2022 Jan 18	Silver Sparrow	?	-	Target	-	-	F-15D-I	PALB?	RW03/21	PALB	MEDR?	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2000-A06	2451801.88	2000 Sep 14 0900	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2001-A06	2452148.50	2001 Aug 27	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2003-A18	2452989.50	2003 Dec 16	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2005-A08	2453706.85	2005 Dec 2 0827?	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2007-A10	2454142.50	2007 Feb 11	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2008-S15	2454571.50	2008 Apr 15	Blue Sparrow	-	1	0.000	IDF	MS	-	-	Test	Wire	-	-
2011-A39	2455880.50	2011 Nov 15	Black Sparrow	-	-	0.000	IDF/DGA	MS	-	-	Test	Wire	-	-
2012-S45	2455967.88	2012 Feb 10 0900	Blue Sparrow	-	2	0.000	IDF	MS	-	-	Test	Wire	-	-
2013-S114	2456357.50	2013 Mar 6	Black Sparrow	-	-	0.000	IDF/DGA	MS	-	-	Test	Wire	-	-
2013-S57	2456538.76	2013 Sep 3 0616	Silver Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2014-S56	2456909.50	2014 Sep 9	Blue Sparrow	-	3	0.000	IDF	MS	-	-	Test	Wire	-	-
2014-S80	2457007.50	2014 Dec 16	Silver Sparrow	?	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2015-S85	2457366.76	2015 Dec 10 0612	Silver Sparrow	-	-	0.000	IDF	MS	-	-	Test	defensenews.com	-	-
2017-A01	2457778.50	2017 Jan 25	Black Sparrow	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2019-S04	2458505.50	2019 Jan 22	Silver Sparrow	?	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2020-S24	2459073.50	2020 Aug 12	Silver Sparrow	?	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2022-S02	2459597.50	2022 Jan 18	Silver Sparrow	?	-	0.000	IDF	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S279	2438551.49	1964 Jun 4 2344	Blue Streak	-	F-1	-	-	-	-	WOO	LA6A	-	-	157	1015	-
1964-S532	2438688.46	1964 Oct 19 2300	Blue Streak	-	F-2	-	-	-	-	WOO	LA6A	-	-	243	-	-
1965-S181	2438841.46	1965 Mar 21 2308	Blue Streak	-	F-3	-	-	-	-	WOO	LA6A	-	-	263	-	-
1966-S276	2439269.48	1966 May 23 2336	ELDO A	-	F-4	STV	STV 1	-	-	WOO	LA6A	-	-	86	-	-
1966-S620	2439444.36	1966 Nov 14 2038:58	Europa I	-	F-5	STV	STV 2	-	-	WOO	LA6A	-	-	120	-	-
1967-S367	2439706.66	1967 Aug 4 0353	Europa I	-	F-6/1	STV	STV 3	-	-	WOO	LA6A	-	-	180?	-	-
1967-S561	2439830.38	1967 Dec 5 2101	Europa I	-	F-6/2	STV	STV 4	-	-	WOO	LA6A	-	-	200?	-	-
1968-F09	2440190.47	1968 Nov 29 2312:02	Europa I	-	F-7	STV 1	STV 5	-	-	WOO	LA6A	-	-	230?	-	-
1969-F09	2440405.45	1969 Jul 2 2255:00	Europa I	-	F-8	STV 2	STV 6/Adapter	-	-	WOO	LA6A	-	-	300?	-	-
1970-U02	2440749.55	1970 Jun 12 0110:32	Europa I	-	F-9	STV 3	STV 7	-	-	WOO	LA6A	-	-	2000?	-	-
1971-F10	2441261.04	1971 Nov 5 1300	Europa II	-	F-11	STV 4/PAS	STV 8	-	-	CSG	CECLES	-	-	27	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S279	2438551.49	1964 Jun 4 2344	Blue Streak	-	F-1	0.000	ELDO	TS	-	-	-	F1-RPT	Morton	-
1964-S532	2438688.46	1964 Oct 19 2300	Blue Streak	-	F-2	0.000	ELDO	TS	-	-	-	Henderson	-	-
1965-S181	2438841.46	1965 Mar 21 2308	Blue Streak	-	F-3	0.000	ELDO	TS	-	-	-	Henderson	-	-
1966-S276	2439269.48	1966 May 23 2336	ELDO A	-	F-4	0.000	ELDO	TF	AD	-	-	Morton	SP-4007	-
1966-S620	2439444.36	1966 Nov 14 2038:58	Europa I	-	F-5	0.000	ELDO	TS	-	-	-	Henderson	-	-
1967-S367	2439706.66	1967 Aug 4 0353	Europa I	-	F-6/1	0.000	ELDO	TF	S2I	-	-	Rothmund	-	S2 ft ignite
1967-S561	2439830.38	1967 Dec 5 2101	Europa I	-	F-6/2	0.000	ELDO	TF	S1S	-	-	F62-RPT	Henderson	Sep failure
1968-F09	2440190.47	1968 Nov 29 2312:02	Europa I	-	F-7	0.250	ELDO	OF	S3P	G	Sat LEO O	Henderson	ELDOBull	Fuel/ox membrane broke
1969-F09	2440405.45	1969 Jul 2 2255:00	Europa I	-	F-8	0.355	ELDO	OF	S3I	G	Sat LEO O	Henderson	-	S3 exploded?
1970-U02	2440749.55	1970 Jun 12 0110:32	Europa I	-	F-9	0.215	ELDO	OF	FF	G	Sat LEO O	F9-RPT	Morton	Fairing ft sep
1971-F10	2441261.04	1971 Nov 5 1300	Europa II	-	F-11	0.160	ELDO	OF	S1G	G	Sat GTO O	Rothmund	-	Computer electrostatic f.

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A149	2434265.50	1952 Sep 10	Bomarc A	-	621-1	-	-	-	-	CC	LC4	-	-	0	-	-
1953-A28	2434400.50	1953 Jan 23	Bomarc A	-	621-2	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1953-A238	2434538.50	1953 Jun 10	Bomarc A	-	623-1	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1953-A307	2434585.50	1953 Jul 27	Bomarc A	-	623-2	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1953-A346	2434624.50	1953 Sep 4	Bomarc A	-	623-3	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1954-A463	2434959.50	1954 Aug 5	Bomarc A	-	623-7	-	-	-	-	CC	LC3	-	-	20?	-	-
1954-A590	2435040.50	1954 Oct 25	Bomarc A	-	623-8	-	-	-	-	CC	LC3	-	-	20?	-	-
1954-A657	2435070.50	1954 Nov 24	Bomarc A	-	623-9	-	-	-	-	CC	LC3	-	-	20?	-	-
1955-A28	2435126.50	1955 Jan 19	Bomarc A	-	623-10	-	-	-	-	CC	LC3	-	-	20?	-	-
1955-A128	2435162.50	1955 Feb 24	Bomarc A	-	623-21	-	-	-	-	CC	LC3	-	-	22	-	-
1955-A146	2435169.50	1955 Mar 3	Bomarc A	-	623-11	-	-	-	-	CC	LC3	-	-	20?	-	-
1955-A337	2435232.50	1955 May 5	Bomarc A	-	623-22	Ramjet test RPTV	-	-	-	CC	LC3	-	-	20?	-	-
1955-A461	2435315.50	1955 Jul 27	Bomarc A	-	623-12	-	-	-	-	CC	LC3	-	-	20?	-	-
1955-A466	2435344.50	1955 Aug 25	Bomarc A	-	623-23	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1955-A478	2435379.50	1955 Sep 29	Bomarc A	-	623-24	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1955-A490	2435428.50	1955 Nov 17	Bomarc A	-	623-25	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1955-A493	2435441.50	1955 Nov 30	Bomarc A	-	623-26	Last RPTV	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A11	2435505.50	1956 Feb 2	Bomarc A	-	623-13	-	-	-	-	CC	LC4	-	-	20?	-	-
1956-A33	2435547.50	1956 Mar 15	Bomarc A	-	623-14	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A47	2435577.50	1956 Apr 14	Bomarc A	-	623-15	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A56	2435614.50	1956 May 21	Bomarc A	-	623-16	-	-	-	-	CC	LC4	-	-	20?	-	-
1956-A62	2435643.50	1956 Jun 19	Bomarc A	-	623-17	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A71	2435667.50	1956 Jul 13	Bomarc A	-	623-18	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A102	2435758.50	1956 Oct 12	Bomarc A	-	624-6	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1956-A114	2435806.50	1956 Nov 29	Bomarc A	-	624-2	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1957-A02	2435841.50	1957 Jan 3	Bomarc A	-	624-3	-	-	-	-	CC	-	-	-	20?	-	-
1957-A09	2435882.50	1957 Feb 13	Bomarc A	-	624-4	-	-	-	-	CC	-	-	-	20?	-	-
1957-A14	2435897.50	1957 Feb 28	Bomarc A	-	624-5	-	-	-	-	CC	-	-	-	20?	-	-
1957-A27	2435945.50	1957 Apr 17	Bomarc A	-	624-1	-	-	-	-	CC	LC4	-	-	20?	-	-
1957-A65	2436041.50	1957 Jul 22	Bomarc A	-	624-7	-	-	-	-	CC	LC4	-	-	20?	-	-
1957-A80	2436065.50	1957 Aug 15	Bomarc A	-	624-8	-	-	-	-	CC	-	-	-	20?	-	-
1957-A98	2436098.31	1957 Sep 16 1920	Bomarc A	-	624-9	-	-	-	-	CC	-	-	-	20?	-	-
1957-A110	2436109.40	1957 Sep 27 2140	Bomarc A	-	624-10	-	-	-	-	CC	-	-	-	20?	-	-
1957-A119	2436123.35	1957 Oct 11 2030	Bomarc A	-	624-11	-	-	-	-	CC	-	-	-	20?	-	-
1957-A122	2436135.23	1957 Oct 23 1725?	Bomarc A	-	624-16	-	-	-	-	CC	-	-	-	20?	-	-
1957-A129	2436156.50	1957 Nov 14	Bomarc A	-	624-12	-	-	-	-	CC	-	-	-	20?	-	-
1957-A136	2436181.50	1957 Dec 9	Bomarc A	-	624-14	-	-	-	-	CC	-	-	-	20?	-	-
1958-A03	2436218.20	1958 Jan 14 1645	Bomarc A	-	624-	-	-	-	-	CC	-	-	-	20?	-	-
1958-A20	2436282.50	1958 Mar 20	Bomarc A	-	624-17	-	-	-	-	CC	-	-	-	20?	-	-
1958-A28	2436296.18	1958 Apr 2 1620	Bomarc A	-	624-18	-	-	-	-	CC	-	-	-	20?	-	-
1958-A40	2436325.16	1958 May 1 1545	Bomarc A	-	624-19	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A44	2436343.50	1958 May 20	Bomarc A	-	624-21	-	-	-	-	CC	-	-	-	20?	-	-
1958-A51	2436364.16	1958 Jun 9 1545	Bomarc A	-	624-23	-	-	-	-	CC	-	-	-	20?	-	-
1958-A56	2436375.31	1958 Jun 20 1930?	Bomarc A	-	624-24	-	-	-	-	CC	-	-	-	20?	-	-
1958-A59	2436381.11	1958 Jun 26 1440	Bomarc A	-	624-20	-	-	-	-	CC	-	-	-	20?	-	-
1958-A70	2436396.25	1958 Jul 11 1800	Bomarc A	-	624-25	-	-	-	-	CC	-	-	-	20?	-	-
1958-A87	2436422.50	1958 Aug 7	Bomarc A	-	624-XY1	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A93	2436430.50	1958 Aug 15	Bomarc A	-	624-XY2	-	-	-	-	CC	-	-	-	20?	-	-
1958-A99	2436437.18	1958 Aug 21 1615?	Bomarc A	-	624-22	-	-	-	-	CC	-	-	-	20?	-	-
1958-A107	2436449.50	1958 Sep 3	Bomarc A	-	624-XY3	-	-	-	-	CC	LC4A	-	-	20?	-	-
1958-A124	2436470.50	1958 Sep 24	Bomarc A	-	624-XY4	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A137	2436497.50	1958 Oct 21	Bomarc A	-	624-XY5	-	-	-	-	CC	LC4A	-	-	20?	-	-
1958-A138	2436497.50	1958 Oct 21	Bomarc A	-	624-XY6	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A150	2436529.15	1958 Nov 21 1540	Bomarc A	-	624-XY7	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A163	2436550.50	1958 Dec 13	Bomarc A	-	624-XY8	-	-	-	-	CC	LC4	-	-	20?	-	-
1958-A167	2436557.21	1958 Dec 19 1659?	Bomarc A	-	624-XY9	-	-	-	-	CC	-	-	-	20?	-	-
1958-A168	2436561.50	1958 Dec 24	Bomarc A	-	624-XY10	-	-	-	-	CC	-	-	-	20?	-	-
1959-A14	2436596.11	1959 Jan 27 1440	Bomarc A	-	624-XY16	-	-	-	-	CC	LC4	-	-	20?	-	-
1959-A15	2436596.32	1959 Jan 27 1940?	Bomarc A	-	624-XY11	-	-	-	-	CC	LC4A	-	-	20?	-	-
1959-A28	2436612.50	1959 Feb 13	Bomarc A	-	624-XY12	-	-	-	-	CC	-	-	-	20?	-	-
1959-A42	2436632.25	1959 Mar 4 1807	Bomarc A	-	624-XY13	-	-	-	-	CC	-	-	-	20?	-	-
1959-A51	2436658.50	1959 Mar 31	Bomarc A	-	624-XY14	-	-	-	-	CC	-	-	-	20?	-	-
1959-A63	2436679.50	1959 Apr 21	Bomarc A	-	624-XY15	-	-	-	-	CC	LC4	-	-	20?	-	-
1959-A83	2436716.07	1959 May 27 1347	Bomarc B	-	631-1	-	-	-	-	CC	LC4	-	-	20?	-	-
1959-A116	2436764.21	1959 Jul 14 1658	Bomarc B	-	631-2	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1959-A134	2436793.12	1959 Aug 12 1500	Bomarc B	-	631-3	-	-	-	-	CC	LC3/4?	-	-	20?	-	-
1959-A154	2436814.09	1959 Sep 2 1405	Bomarc B	-	631-4	-	-	-	-	CC	LC4	-	-	20?	-	-
1959-A184	2436870.08	1959 Oct 28 1400	Bomarc B	-	631-5	-	-	-	-	CC	LC4	-	-	20?	-	-
1960-A22	2436962.50	1960 Jan 29	Bomarc B	-	631-6	-	-	-	-	CC	LC4?	-	-	20?	-	-
1960-A99	2437040.12	1960 Apr 15 1450	Bomarc B	-	631-8	-	-	-	-	CC	LC4	-	-	20?	-	-
1966-A100	2439362.50	1966 Aug 25	Bomarc A	-	A	Target	-	AUGUST CORN	-	V	BOM-2	-	-	20?	-	-
1966-A121	2439413.33	1966 Oct 14 2000?	Bomarc A	-	A	Target	-	FALL HARVEST	-	V	BOM-1	-	-	0	-	-
1966-A133	2439430.50	1966 Nov 1	Bomarc A	-	A	Target	-	BLUE HAWK	-	V	BOM-2	-	-	20?	-	-
1967-A57	2439529.50	1967 Feb 8	Bomarc A	-	A	Target	-	BUSY NEEDLE	-	V	BOM-1	-	-	0	-	-
1967-A85	2439635.50	1967 May 25	Bomarc A	-	A	Target	-	BUSY SPOTTER	-	V	BOM-2	-	-	20?	-	-
1967-A86	2439635.50	1967 May 25	Bomarc A	-	A	Target	-	GIANT CIGAR	-	V	BOM-1	-	-	20?	-	-
1967-A94	2439677.50	1967 Jul 6	Bomarc A	-	A	Target	-	BUCKBOARD SEAT	-	V	BOM-1	-	-	20?	-	-
1967-A140	2439825.50	1967 Dec 1	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1968-A70	2439950.50	1968 Apr 4	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1968-A79	2439998.50	1968 May 22	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1968-A82	2440034.50	1968 Jun 27	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1968-A90	2440087.50	1968 Aug 19	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1968-A105	2440136.50	1968 Oct 7	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1968-A110	2440173.50	1968 Nov 13	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A07	2440230.50	1969 Jan 9 0000	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A37	2440250.50	1969 Jan 29	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A45	2440273.50	1969 Feb 21	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A51	2440295.50	1969 Mar 15	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A61	2440329.33	1969 Apr 17 1952	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A72	2440342.26	1969 Apr 30 1820	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A87	2440362.50	1969 May 21	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A103	2440392.13	1969 Jun 19 1502	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A117	2440405.50	1969 Jul 3	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A124	2440414.50	1969 Jul 12	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A146	2440457.50	1969 Aug 24	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A148	2440467.50	1969 Sep 3	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A155	2440485.39	1969 Sep 20 2126	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A189	2440538.50	1969 Nov 13	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1969-A190	2440538.50	1969 Nov 13	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1969-A191	2440543.50	1969 Nov 18	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A09	2440601.50	1970 Jan 15	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A25	2440652.50	1970 Mar 7	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A26	2440652.50	1970 Mar 7	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1970-A55	2440694.50	1970 Apr 18	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A84	2440769.50	1970 Jul 2	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A91	2440796.50	1970 Jul 29	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1970-A103	2440855.50	1970 Sep 26	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1970-A104	2440855.50	1970 Sep 26	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1971-A25	2441009.50	1971 Feb 27	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1971-A26	2441009.50	1971 Feb 27	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1971-A35	2441055.50	1971 Apr 14	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1971-A36	2441055.50	1971 Apr 14	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1971-A58	2441132.54	1971 Jun 30 0100	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1971-A59	2441132.56	1971 Jun 30 0130	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1971-A78	2441211.62	1971 Sep 17 0250	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1971-A79	2441211.66	1971 Sep 17 0345	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A08	2441335.50	1972 Jan 19	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A31	2441422.40	1972 Apr 14 2139	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A35	2441428.50	1972 Apr 21	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1972-A81	2441525.50	1972 Jul 27	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A82	2441525.50	1972 Jul 27	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1972-A112	2441650.50	1972 Nov 29	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A114	2441652.50	1972 Dec 1	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1972-A118	2441670.45	1972 Dec 18 2255	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A121	2441679.51	1972 Dec 28 0018	Bomarc A	-	A	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1972-A122	2441681.49	1972 Dec 29 2344	Bomarc A	-	A	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1973-A46	2441937.39	1973 Sep 11 2125	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	0?	-	-
1973-A78	2442033.50	1973 Dec 17	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1974-A12	2442126.50	1974 Mar 20	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1974-A16	2442147.50	1974 Apr 10	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1974-A24	2442197.50	1974 May 30	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1974-A40	2442321.50	1974 Oct 1	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1974-A44	2442336.50	1974 Oct 16	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1975-A13	2442491.50	1975 Mar 20	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1975-A19	2442512.50	1975 Apr 10	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1975-A29	2442554.50	1975 May 22	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1975-A43	2442616.50	1975 Jul 23	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1975-A75	2442762.50	1975 Dec 16	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1976-A26	2442903.50	1976 May 5	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1976-A33	2442932.50	1976 Jun 3	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1976-A41	2442972.50	1976 Jul 13	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1976-A61	2443044.50	1976 Sep 23	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1976-A71	2443079.50	1976 Oct 28	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1976-A72	2443079.50	1976 Oct 28	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1977-A08	2443178.50	1977 Feb 4	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1977-A18	2443234.50	1977 Apr 1 0000	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1977-A24	2443274.50	1977 May 11	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1977-A36	2443337.50	1977 Jul 13	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1977-A37	2443338.50	1977 Jul 14	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1977-A49	2443486.50	1977 Dec 9	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1978-A11	2443591.50	1978 Mar 24	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1979-A12	2443931.50	1979 Feb 27	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1980-A32	2444452.50	1980 Aug 1	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1980-A45	2444560.50	1980 Nov 17	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1980-A54	2444592.50	1980 Dec 19	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	20?	-	-
1982-A16	2445164.50	1982 Jul 14	Bomarc B	-	B	Target	-	-	-	V	BOM-1	-	-	20?	-	-
1982-A17	2445164.50	1982 Jul 14	Bomarc B	-	B	Target	-	-	-	V	BOM-2	-	-	0	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A149	2434265.50	1952 Sep 10	Bomarc A	-	621-1	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1953-A28	2434400.50	1953 Jan 23	Bomarc A	-	621-2	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1953-A238	2434538.50	1953 Jun 10	Bomarc A	-	623-1	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1953-A307	2434585.50	1953 Jul 27	Bomarc A	-	623-2	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1953-A346	2434624.50	1953 Sep 4	Bomarc A	-	623-3	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1954-A463	2434959.50	1954 Aug 5	Bomarc A	-	623-7	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1954-A590	2435040.50	1954 Oct 25	Bomarc A	-	623-8	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1954-A657	2435070.50	1954 Nov 24	Bomarc A	-	623-9	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A28	2435126.50	1955 Jan 19	Bomarc A	-	623-10	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A128	2435162.50	1955 Feb 24	Bomarc A	-	623-21	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A146	2435169.50	1955 Mar 3	Bomarc A	-	623-11	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A337	2435232.50	1955 May 5	Bomarc A	-	623-22	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1955-A461	2435315.50	1955 Jul 27	Bomarc A	-	623-12	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1955-A466	2435344.50	1955 Aug 25	Bomarc A	-	623-23	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A478	2435379.50	1955 Sep 29	Bomarc A	-	623-24	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A490	2435428.50	1955 Nov 17	Bomarc A	-	623-25	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A493	2435441.50	1955 Nov 30	Bomarc A	-	623-26	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A11	2435505.50	1956 Feb 2	Bomarc A	-	623-13	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A33	2435547.50	1956 Mar 15	Bomarc A	-	623-14	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A47	2435577.50	1956 Apr 14	Bomarc A	-	623-15	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A56	2435614.50	1956 May 21	Bomarc A	-	623-16	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1956-A62	2435643.50	1956 Jun 19	Bomarc A	-	623-17	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A71	2435667.50	1956 Jul 13	Bomarc A	-	623-18	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1956-A102	2435758.50	1956 Oct 12	Bomarc A	-	624-6	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1956-A114	2435806.50	1956 Nov 29	Bomarc A	-	624-2	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A02	2435841.50	1957 Jan 3	Bomarc A	-	624-3	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A09	2435882.50	1957 Feb 13	Bomarc A	-	624-4	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A14	2435897.50	1957 Feb 28	Bomarc A	-	624-5	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A27	2435945.50	1957 Apr 17	Bomarc A	-	624-1	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A65	2436041.50	1957 Jul 22	Bomarc A	-	624-7	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A80	2436065.50	1957 Aug 15	Bomarc A	-	624-8	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A98	2436098.31	1957 Sep 16 1920	Bomarc A	-	624-9	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1957-A110	2436109.40	1957 Sep 27 2140	Bomarc A	-	624-10	0.000	AFMTC	MS	-	-	OT	Ulrich	MT60-2544	Cleary
1957-A119	2436123.35	1957 Oct 11 2030	Bomarc A	-	624-11	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1957-A122	2436135.23	1957 Oct 23 1725?	Bomarc A	-	624-16	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1957-A129	2436156.50	1957 Nov 14	Bomarc A	-	624-12	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1957-A136	2436181.50	1957 Dec 9	Bomarc A	-	624-14	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A03	2436218.20	1958 Jan 14 1645	Bomarc A	-	624-	0.000	AFMTC	MS	-	-	OT	Wire/Ulrich	MT60-2544	Cleary
1958-A20	2436282.50	1958 Mar 20	Bomarc A	-	624-17	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A28	2436296.18	1958 Apr 2 1620	Bomarc A	-	624-18	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1958-A40	2436325.16	1958 May 1 1545	Bomarc A	-	624-19	0.000	AFMTC	MS	-	-	OT	Wire/Ulrick	MT60-2544	Cleary
1958-A44	2436343.50	1958 May 20	Bomarc A	-	624-21	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A51	2436364.16	1958 Jun 9 1545	Bomarc A	-	624-23	0.000	AFMTC	MS	-	-	OT	Wire/Ulrich	MT60-2544	Cleary
1958-A56	2436375.31	1958 Jun 20 1930?	Bomarc A	-	624-24	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	EST
1958-A59	2436381.11	1958 Jun 26 1440	Bomarc A	-	624-20	0.000	AFMTC	MS	-	-	OT	Wire/Ulrich	MT60-2544	Cleary
1958-A70	2436396.25	1958 Jul 11 1800	Bomarc A	-	624-25	0.000	AFMTC	MS	-	-	OT	MT60-2544/Wire	Cleary	-
1958-A87	2436422.50	1958 Aug 7	Bomarc A	-	624-XY1	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A93	2436430.50	1958 Aug 15	Bomarc A	-	624-XY2	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A99	2436437.18	1958 Aug 21 1615?	Bomarc A	-	624-22	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1958-A107	2436449.50	1958 Sep 3	Bomarc A	-	624-XY3	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A124	2436470.50	1958 Sep 24	Bomarc A	-	624-XY4	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A137	2436497.50	1958 Oct 21	Bomarc A	-	624-XY5	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A138	2436497.50	1958 Oct 21	Bomarc A	-	624-XY6	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A150	2436529.15	1958 Nov 21 1540	Bomarc A	-	624-XY7	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1958-A163	2436550.50	1958 Dec 13	Bomarc A	-	624-XY8	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1958-A167	2436557.21	1958 Dec 19 1659?	Bomarc A	-	624-XY9	0.000	AFMTC	MS	-	-	OT	Ulrich	MT60-2544	Cleary
1958-A168	2436561.50	1958 Dec 24	Bomarc A	-	624-XY10	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1959-A14	2436596.11	1959 Jan 27 1440	Bomarc A	-	624-XY16	0.000	AFMTC	MS	-	-	OT	Wire/Ulrich	MT60-2544	Cleary
1959-A15	2436596.32	1959 Jan 27 1940?	Bomarc A	-	624-XY11	0.000	AFMTC	MS	-	-	OT	Wire/Ulrich	MT60-2544	Cleary
1959-A28	2436612.50	1959 Feb 13	Bomarc A	-	624-XY12	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1959-A42	2436632.25	1959 Mar 4 1807	Bomarc A	-	624-XY13	0.000	AFMTC	MS	-	-	OT	Ulrich/UPI	MT60-2544	Cleary
1959-A51	2436658.50	1959 Mar 31	Bomarc A	-	624-XY14	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1959-A63	2436679.50	1959 Apr 21	Bomarc A	-	624-XY15	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1959-A83	2436716.07	1959 May 27 1347	Bomarc B	-	631-1	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1959-A116	2436764.21	1959 Jul 14 1658	Bomarc B	-	631-2	0.000	AFMTC	MS	-	-	OT	Ulrich/Wire	MT60-2544	[Jul15?]
1959-A134	2436793.12	1959 Aug 12 1500	Bomarc B	-	631-3	0.000	AFMTC	MS	-	-	OT	Ulrich/Wire	MT60-2544	Cleary
1959-A154	2436814.09	1959 Sep 2 1405	Bomarc B	-	631-4	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1959-A184	2436870.08	1959 Oct 28 1400	Bomarc B	-	631-5	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1960-A22	2436962.50	1960 Jan 29	Bomarc B	-	631-6	0.000	AFMTC	MS	-	-	OT	Ulrich/Wire	MT60-2544	-
1960-A99	2437040.12	1960 Apr 15 1450	Bomarc B	-	631-8	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1966-A100	2439362.50	1966 Aug 25	Bomarc A	-	A	0.000	OPTEV/VX4	MF	U	-	Target	VAFB	-	-
1966-A121	2439413.33	1966 Oct 14 2000?	Bomarc A	-	A	0.000	OPTEV	MF	U	-	Target	Ulrich/Wire	VAFB	-
1966-A133	2439430.50	1966 Nov 1	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1967-A57	2439529.50	1967 Feb 8	Bomarc A	-	A	0.000	OPTEV	MF	U	-	Target	VAFB	-	-
1967-A85	2439635.50	1967 May 25	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1967-A86	2439635.50	1967 May 25	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1967-A94	2439677.50	1967 Jul 6	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1967-A140	2439825.50	1967 Dec 1	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A70	2439950.50	1968 Apr 4	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A79	2439998.50	1968 May 22	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A82	2440034.50	1968 Jun 27	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A90	2440087.50	1968 Aug 19	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A105	2440136.50	1968 Oct 7	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1968-A110	2440173.50	1968 Nov 13	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A07	2440230.50	1969 Jan 9 0000	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Wire	VAFB	-
1969-A37	2440250.50	1969 Jan 29	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A45	2440273.50	1969 Feb 21	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A51	2440295.50	1969 Mar 15	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A61	2440329.33	1969 Apr 17 1952	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1969-A72	2440342.26	1969 Apr 30 1820	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1969-A87	2440362.50	1969 May 21	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A103	2440392.13	1969 Jun 19 1502	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1969-A117	2440405.50	1969 Jul 3	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A124	2440414.50	1969 Jul 12	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A146	2440457.50	1969 Aug 24	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A148	2440467.50	1969 Sep 3	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A155	2440485.39	1969 Sep 20 2126	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/AP	VAFB	-
1969-A189	2440538.50	1969 Nov 13	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A190	2440538.50	1969 Nov 13	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1969-A191	2440543.50	1969 Nov 18	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A09	2440601.50	1970 Jan 15	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A25	2440652.50	1970 Mar 7	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A26	2440652.50	1970 Mar 7	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A55	2440694.50	1970 Apr 18	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A84	2440769.50	1970 Jul 2	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A91	2440796.50	1970 Jul 29	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A103	2440855.50	1970 Sep 26	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1970-A104	2440855.50	1970 Sep 26	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1971-A25	2441009.50	1971 Feb 27	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1971-A26	2441009.50	1971 Feb 27	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1971-A35	2441055.50	1971 Apr 14	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1971-A36	2441055.50	1971 Apr 14	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1971-A58	2441132.54	1971 Jun 30 0100	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/UPI	VAFB	-
1971-A59	2441132.56	1971 Jun 30 0130	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/UPI	VAFB	-
1971-A78	2441211.62	1971 Sep 17 0250	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1971-A79	2441211.66	1971 Sep 17 0345	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1972-A08	2441335.50	1972 Jan 19	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A31	2441422.40	1972 Apr 14 2139	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1972-A35	2441428.50	1972 Apr 21	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A81	2441525.50	1972 Jul 27	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A82	2441525.50	1972 Jul 27	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A112	2441650.50	1972 Nov 29	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A114	2441652.50	1972 Dec 1	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1972-A118	2441670.45	1972 Dec 18 2255	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1972-A121	2441679.51	1972 Dec 28 0018	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Wire	VAFB	-
1972-A122	2441681.49	1972 Dec 29 2344	Bomarc A	-	A	0.000	OPTEV	MU	-	-	Target	Wire	VAFB	-
1973-A46	2441937.39	1973 Sep 11 2125	Bomarc B	-	B	0.000	OPTEV	MF	U	-	Target	Ulrich/LompocR	VAFB	-
1973-A78	2442033.50	1973 Dec 17	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1974-A12	2442126.50	1974 Mar 20	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1974-A16	2442147.50	1974 Apr 10	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1974-A24	2442197.50	1974 May 30	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1974-A40	2442321.50	1974 Oct 1	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1974-A44	2442336.50	1974 Oct 16	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1975-A13	2442491.50	1975 Mar 20	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1975-A19	2442512.50	1975 Apr 10	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1975-A29	2442554.50	1975 May 22	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1975-A43	2442616.50	1975 Jul 23	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1975-A75	2442762.50	1975 Dec 16	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A26	2442903.50	1976 May 5	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A33	2442932.50	1976 Jun 3	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A41	2442972.50	1976 Jul 13	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A61	2443044.50	1976 Sep 23	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A71	2443079.50	1976 Oct 28	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1976-A72	2443079.50	1976 Oct 28	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1977-A08	2443178.50	1977 Feb 4	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1977-A18	2443234.50	1977 Apr 1 0000	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	Ulrich/LompocR	VAFB	-
1977-A24	2443274.50	1977 May 11	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1977-A36	2443337.50	1977 Jul 13	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1977-A37	2443338.50	1977 Jul 14	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1977-A49	2443486.50	1977 Dec 9	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1978-A11	2443591.50	1978 Mar 24	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1979-A12	2443931.50	1979 Feb 27	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1980-A32	2444452.50	1980 Aug 1	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1980-A45	2444560.50	1980 Nov 17	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1980-A54	2444592.50	1980 Dec 19	Bomarc B	-	B	0.000	OPTEV	MU	-	-	Target	VAFB	-	-
1982-A16	2445164.50	1982 Jul 14	Bomarc B	-	B	0.000	OPTEV	MS	-	-	Target	VAFB	-	-
1982-A17	2445164.50	1982 Jul 14	Bomarc B	-	B	0.000	OPTEV	MF	U	-	Target	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-A17	2457045.50	2015 Jan 23	Bukguekseong	?	KN-11	Ejection test	-	-	-	SINPO?	-	-	-	1?	-	-
2015-A40	2457134.50	2015 Apr 22	Bukguekseong	?	KN-11	Ejection test	-	-	-	SINPO?	-	-	-	1?	-	-
2015-A04	2457150.50	2015 May 8	Bukguekseong	-	-	Bukgeukseong	-	-	KPN-PLAT	SINPO?	-	-	-	1?	-	-
2015-A41	2457354.50	2015 Nov 28	Bukguekseong	?	KN-11	Ejection test	-	-	KPN-PLAT	SINPO?	-	-	-	0	0	-
2015-A42	2457377.50	2015 Dec 21	Bukguekseong	?	KN-11	Ejection test	-	-	KPN-PLAT	SINPO?	-	-	-	0	0	-
2016-A27	2457501.90	2016 Apr 23 0930	Bukguekseong	-	-	Bukgeukseong	-	-	824YONG	SINPO	-	-	-	10?	30	-
2016-A36	2457578.60	2016 Jul 9 0230	Bukguekseong	-	-	Bukgeukseong	-	-	824YONG	SINPO	-	-	-	40?	-	-
2016-S51	2457624.35	2016 Aug 23 2030	Bukguekseong	-	-	Bukgeukseong	-	-	824YONG	SINPO	-	-	-	500	500	-
2017-S10	2457796.45	2017 Feb 11 2255	Bukguekseong-2	-	KN-15	-	-	-	-	KUSONG	LP2	-	-	550	500?	Sea of J.
2017-S34	2457894.83	2017 May 21 0759	Bukguekseong-2	-	KN-15	-	-	-	-	PUKCH	-	-	-	560	500	Sea of J.
2019-S59	2458758.42	2019 Oct 1 2211	Bukguekseong-3	-	-	-	-	-	824YONG	WONSAN	-	-	-	910	450	Sea of J.

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-A17	2457045.50	2015 Jan 23	Bukguekseong	?	KN-11	0.000	JRG	MS	-	-	Test	freebeacon.com	-	-
2015-A40	2457134.50	2015 Apr 22	Bukguekseong	?	KN-11	0.000	JRG	MS	-	-	Test	freebeacon.com	-	-
2015-A04	2457150.50	2015 May 8	Bukguekseong	-	-	0.000	JRG	AS	-	-	Test	KCNA	-	-
2015-A41	2457354.50	2015 Nov 28	Bukguekseong	?	KN-11	0.000	JRG	MF	U	-	Test	freebeacon.com	-	-
2015-A42	2457377.50	2015 Dec 21	Bukguekseong	?	KN-11	0.000	JRG	MF	U	-	Test	freebeacon.com	-	-
2016-A27	2457501.90	2016 Apr 23 0930	Bukguekseong	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-A36	2457578.60	2016 Jul 9 0230	Bukguekseong	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-S51	2457624.35	2016 Aug 23 2030	Bukguekseong	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S10	2457796.45	2017 Feb 11 2255	Bukguekseong-2	-	KN-15	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S34	2457894.83	2017 May 21 0759	Bukguekseong-2	-	KN-15	0.000	JRG	MS	-	-	Test	Wire	-	-
2019-S59	2458758.42	2019 Oct 1 2211	Bukguekseong-3	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-M08	2459506.55	2021 Oct 19 0117	Bukguekseong-6	?	-	-	-	-	KPN-PLAT?	SINPO	-	-	-	60	450	Sea of J.

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Agency	Launch_Code	Group	Category	LTCite	Cite	Notes
2021-M08	2459506.55	2021 Oct 19 0117	Bukguekseong-6	?	-	JRG	MS	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A17	2435910.50	1957 Mar 13	Bull Goose	-	Dummy	-	-	-	-	CC	LC22	-	-	1?	-	-
1957-A37	2435971.50	1957 May 13	Bull Goose	-	Dummy	-	-	-	-	CC	LC22	-	-	1?	-	-
1957-A57	2436017.27	1957 Jun 27 1835	Bull Goose	-	2	-	-	-	-	CC	LC22	-	-	6	-	-
1957-A82	2436070.50	1957 Aug 20	Bull Goose	-	3	-	-	-	-	CC	LC22	-	-	10?	-	-
1957-A107	2436107.50	1957 Sep 26	Bull Goose	-	4	-	-	-	-	CC	LC22	-	-	4?	-	-
1957-A124	2436138.50	1957 Oct 27	Bull Goose	-	5	-	-	-	-	CC	LC22	-	-	11	-	-
1957-A133	2436169.20	1957 Nov 26 1646	Bull Goose	-	6	-	-	-	-	CC	LC22	-	-	13	-	-
1958-A07	2436234.50	1958 Jan 31	Bull Goose	-	7	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A19	2436280.50	1958 Mar 18	Bull Goose	-	9	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A32	2436311.50	1958 Apr 18	Bull Goose	-	10	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A42	2436339.17	1958 May 15 1602	Bull Goose	-	8	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A80	2436408.50	1958 Jul 24	Bull Goose	-	12	-	-	-	-	CC	LC21	-	-	10?	-	-
1958-A105	2436443.50	1958 Aug 28	Bull Goose	-	13	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A114	2436458.50	1958 Sep 12	Bull Goose	-	11	-	-	-	-	CC	LC21	-	-	10?	-	-
1958-A118	2436464.50	1958 Sep 18	Bull Goose	-	Dummy 4	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A126	2436471.50	1958 Sep 25	Goose	-	Dummy 5	-	-	-	-	CC	LC21	-	-	10?	-	-
1958-A130	2436476.50	1958 Sep 30	Goose	-	14	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A144	2436521.50	1958 Nov 14	Goose	-	15	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A152	2436535.50	1958 Nov 28	Goose	-	18	-	-	-	-	CC	LC22	-	-	10?	-	-
1958-A161	2436542.50	1958 Dec 5	Goose	-	6	-	-	-	-	CC	LC21	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A17	2435910.50	1957 Mar 13	Bull Goose	-	Dummy	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1957-A37	2435971.50	1957 May 13	Bull Goose	-	Dummy	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1957-A57	2436017.27	1957 Jun 27 1835	Bull Goose	-	2	0.000	WADD	MS	-	-	Test	MT60-2544/Wire	Cleary	-
1957-A82	2436070.50	1957 Aug 20	Bull Goose	-	3	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1957-A107	2436107.50	1957 Sep 26	Bull Goose	-	4	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1957-A124	2436138.50	1957 Oct 27	Bull Goose	-	5	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1957-A133	2436169.20	1957 Nov 26 1646	Bull Goose	-	6	0.000	WADD	MS	-	-	Test	Ulrich	MT60-2544	Cleary/Rigg -
1958-A07	2436234.50	1958 Jan 31	Bull Goose	-	7	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A19	2436280.50	1958 Mar 18	Bull Goose	-	9	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A32	2436311.50	1958 Apr 18	Bull Goose	-	10	0.000	WADD	MF	U	-	Test	MT60-2544	Cleary	-
1958-A42	2436339.17	1958 May 15 1602	Bull Goose	-	8	0.000	WADD	MS	-	-	Test	MT60-2544/Wire	Cleary	-
1958-A80	2436408.50	1958 Jul 24	Bull Goose	-	12	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A105	2436443.50	1958 Aug 28	Bull Goose	-	13	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A114	2436458.50	1958 Sep 12	Bull Goose	-	11	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A118	2436464.50	1958 Sep 18	Bull Goose	-	Dummy 4	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A126	2436471.50	1958 Sep 25	Goose	-	Dummy 5	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A130	2436476.50	1958 Sep 30	Goose	-	14	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A144	2436521.50	1958 Nov 14	Goose	-	15	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A152	2436535.50	1958 Nov 28	Goose	-	18	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1958-A161	2436542.50	1958 Dec 5	Goose	-	6	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A10	2440602.96	1970 Jan 16 1106	Bullpup Cajun	-	NASA 20.01GM	-	-	-	-	WI	-	-	-	41	-	-
1970-M27	2440914.60	1970 Nov 24 0218	Bullpup Apache	-	-	-	-	-	-	PF	-	-	-	50?	-	-
1970-M29	2440922.58	1970 Dec 2 0200	Bullpup Apache	-	-	-	-	-	-	PF	-	-	-	50?	-	-
1971-M11	2441190.88	1971 Aug 27 0900	Bullpup Apache	-	-	-	-	-	-	PF	-	-	-	50?	-	-
1972-M04	2441406.35	1972 Mar 29 2024	Bullpup Apache	-	-	-	-	-	-	PF	-	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A10	2440602.96	1970 Jan 16 1106	Bullpup Cajun	-	NASA 20.01GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	SP-4015	-
1970-M27	2440914.60	1970 Nov 24 0218	Bullpup Apache	-	-	0.000	NSF/UAF	SS	-	UAF/Wescott	Aeron Ba	WWW-PFRR	-	-
1970-M29	2440922.58	1970 Dec 2 0200	Bullpup Apache	-	-	0.000	NSF/UAF	SS	-	UAF/Wescott	Aeron Ba	WWW-PFRR	-	-
1971-M11	2441190.88	1971 Aug 27 0900	Bullpup Apache	-	-	0.000	NSF/UAF	SS	-	DENV/Barcas	Particles	WWW-PFRR	-	-
1972-M04	2441406.35	1972 Mar 29 2024	Bullpup Apache	-	-	0.000	NSF/UAF	SS	-	DENV/Barcas	Particles	WWW-PFRR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-A137	2458048.50	2017 Oct 22	ILR-33 Bursztyn 2K	-	1	-	-	-	-	DRAWP	-	-	-	15	-	-
2019-A109	2458629.50	2019 May 26	ILR-33 Bursztyn 2K	-	3	-	-	-	-	DRAWP	-	-	-	11	-	-
2019-A110	2458736.50	2019 Sep 10	ILR-33 Bursztyn 2K	-	4	-	-	-	-	USTKA	-	-	-	23	-	-
2024-S47	2460494.96	2024 Jul 3 1109	ILR-33 Bursztyn 2K	-	5	-	-	-	-	AND	-	-	-	101	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-A137	2458048.50	2017 Oct 22	ILR-33 Bursztyn 2K	-	1	0.000	PAI	SS	-	PAI/	Test	wikipedia	-	-
2019-A109	2458629.50	2019 May 26	ILR-33 Bursztyn 2K	-	3	0.000	PAI	SS	-	PAI/	Test	wikipedia	-	-
2019-A110	2458736.50	2019 Sep 10	ILR-33 Bursztyn 2K	-	4	0.000	PAI	SS	-	PAI/	Test	wikipedia	-	-
2024-S47	2460494.96	2024 Jul 3 1109	ILR-33 Bursztyn 2K	-	5	0.000	PAI	SS	-	PAI/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A70	2436051.50	1957 Aug 1	Burya	-	2/1	-	-	-	-	VLAD	-	-	-	0?	-	-
1957-A92	2436082.50	1957 Sep 1	Burya	-	2/1	-	-	-	-	VLAD	-	-	-	0?	-	-
1957-A125	2436141.50	1957 Oct 30	Burya	-	2/3	-	-	-	-	VLAD	-	-	-	0?	-	-
1958-A21	2436283.50	1958 Mar 21	Burya	-	2/2	-	-	-	-	VLAD	-	-	-	0?	-	-
1958-A39	2436321.50	1958 Apr 28	Burya	-	1-03	-	-	-	-	VLAD	-	-	-	15?	-	-
1958-A45	2436345.50	1958 May 22	Burya	-	2-01	-	-	-	-	VLAD	-	-	-	17	-	-
1958-A52	2436365.50	1958 Jun 11	Burya	-	3/1	-	-	-	-	VLAD	-	-	-	0?	-	-
1958-A67	2436387.50	1958 Jul 3	Burya	-	3/1	-	-	-	-	VLAD	-	-	-	15?	-	-
1958-A72	2436397.50	1958 Jul 13	Burya	-	3/2	-	-	-	-	VLAD	-	-	-	15?	-	-
1958-A112	2436456.50	1958 Sep 10	Burya	-	1-01	-	-	-	-	VLAD	-	-	-	15?	-	-
1958-A170	2436565.50	1958 Dec 28	Burya	-	2-04	-	-	-	-	VLAD	-	-	-	15?	-	-
1959-A49	2436656.50	1959 Mar 29	Burya	-	3-04	-	-	-	-	VLAD	-	-	-	15?	-	-
1959-A62	2436677.50	1959 Apr 19	Burya	-	2-05	-	-	-	-	VLAD	-	-	-	17	-	-
1959-A167	2436843.50	1959 Oct 2	Burya	-	2/4	-	-	-	-	VLAD	-	-	-	17	-	-
1960-A52	2436984.50	1960 Feb 20	Burya	-	10-02	-	-	-	-	VLAD	-	-	-	15?	1600?	-
1960-A62	2436999.50	1960 Mar 6	Burya	-	10-04	-	-	-	-	VLAD	-	-	-	15?	6500	-
1960-A73	2437016.50	1960 Mar 23	Burya	-	10-03	-	-	-	-	VLAD	-	-	-	25	-	-
1960-A302	2437284.50	1960 Dec 16	Burya	-	10-05/15L17T	-	-	-	-	VLAD	-	-	-	15?	-	-
1961-A394	2437303.50	1961 Jan 4	Burya	-	16L-18T	-	-	-	-	VLAD	-	-	-	15?	1947	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A70	2436051.50	1957 Aug 1	Burya	-	2/1	0.000	NPOL	MF	U	-	Test	Evstaf'ev99	-	-
1957-A92	2436082.50	1957 Sep 1	Burya	-	2/1	0.000	NPOL	MF	U	-	Test	Evstaf'ev99	-	-
1957-A125	2436141.50	1957 Oct 30	Burya	-	2/3	0.000	NPOL	MF	U	-	Test	Evstaf'ev99	-	-
1958-A21	2436283.50	1958 Mar 21	Burya	-	2/2	0.000	NPOL	MF	U	-	Test	Evstaf'ev99	-	-
1958-A39	2436321.50	1958 Apr 28	Burya	-	1-03	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1958-A45	2436345.50	1958 May 22	Burya	-	2-01	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1958-A52	2436365.50	1958 Jun 11	Burya	-	3/1	0.000	NPOL	MF	U	-	Test	Evstaf'ev99	-	-
1958-A67	2436387.50	1958 Jul 3	Burya	-	3/1	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1958-A72	2436397.50	1958 Jul 13	Burya	-	3/2	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1958-A112	2436456.50	1958 Sep 10	Burya	-	1-01	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1958-A170	2436565.50	1958 Dec 28	Burya	-	2-04	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1959-A49	2436656.50	1959 Mar 29	Burya	-	3-04	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1959-A62	2436677.50	1959 Apr 19	Burya	-	2-05	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1959-A167	2436843.50	1959 Oct 2	Burya	-	2/4	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1960-A52	2436984.50	1960 Feb 20	Burya	-	10-02	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1960-A62	2436999.50	1960 Mar 6	Burya	-	10-04	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1960-A73	2437016.50	1960 Mar 23	Burya	-	10-03	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1960-A302	2437284.50	1960 Dec 16	Burya	-	10-05/15L17T	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-
1961-A394	2437303.50	1961 Jan 4	Burya	-	16L-18T	0.000	NPOL	MS	-	-	Test	Evstaf'ev99	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-A97	2441816.50	1973 May 14	CB-250/RH-125	-	-	CB-250	-	-	-	SHAR	RH	-	-	10?	-	-
1973-A99	2441817.50	1973 May 15	CB-250/LPR-006	-	-	Liquid engine test	-	-	-	SHAR	RH	-	-	10?	-	-
1973-A100	2441835.50	1973 Jun 2	CB-250/LPR-006	-	-	Liquid engine test	-	-	-	SHAR	RH	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-A97	2441816.50	1973 May 14	CB-250/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1973-A99	2441817.50	1973 May 15	CB-250/LPR-006	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1973-A100	2441835.50	1973 Jun 2	CB-250/LPR-006	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2020-U02	2459187.13	2020 Dec 3 1510:21	CE-5 SSQ	-	-	Chang'e-5 Shangsheng Qi	CE-5 SSQ	-	-	LOMN	CE-5 ZQ	-	-	-	-	-
2024-U02	2460465.48	2024 Jun 3 2338	CE-5 SSQ	-	-	Chang'e-6 Shangsheng Qi	CE-6 SSQ	-	-	APBS	CE-6 ZQ	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2020-U02	2459187.13	2020 Dec 3 1510:21	CE-5 SSQ	-	-	0.000	CAST	XS	-	G	Sat XO	twitter.com	-	-
2024-U02	2460465.48	2024 Jun 3 2338	CE-5 SSQ	-	-	0.000	CAST	XS	-	G	Sat XO	twitter.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S130	2459758.50	2022 Jun 28	CHGB Booster	-	1	-	-	-	-	KAU	-	-	-	150?	-	-
2024-S45	2460455.50	2024 May 25?	CHGB Booster	-	2	LRHW AUR JFC-4	-	-	-	KAU	-	-	-	150?	-	KMR
2024-S84	2460657.19	2024 Dec 12 1630	CHGB Booster	-	3	LRHW AUR JFC-2R3	Dark Eagle	-	-	SPFLA	LC46	-	-	150?	-	Atlantic
2025-S17	2460791.00	2025 Apr 25 1205:20	CHGB Booster	-	4	LRHW AUR	Dark Eagle	-	-	SPFLA	LC46	-	-	150?	-	Atlantic

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	LaunchOrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S130	2459758.50	2022 Jun 28	CHGB Booster	-	1	0.000	USN	AS	-	-	Test	Wire	-	-
2024-S45	2460455.50	2024 May 25?	CHGB Booster	-	2	0.000	USN	MS	-	-	Test	Wire	-	-
2024-S84	2460657.19	2024 Dec 12 1630	CHGB Booster	-	3	0.000	USA	MS	-	-	Test	Wire	-	-
2025-S17	2460791.00	2025 Apr 25 1205:20	CHGB Booster	-	4	0.000	USA	MS	-	-	Test	nasaspaceflight	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2000-A07	2451817.15	2000 Sep 29 1540	CSXT	-	-	-	-	-	-	BROCK	-	-	-	14	-	-
2002-A04	2452537.18	2002 Sep 19 1620	CSXT	-	-	-	-	-	-	BROCK	-	-	-	0	-	-
2004-S17	2453143.26	2004 May 17 1812:00	CSXT	-	-	GoFast	-	-	-	BROCK	-	-	-	116	-	-
2014-S65	2456853.11	2014 Jul 14 1432	CSXT	-	-	GoFast	-	-	-	BROCK	-	-	-	118	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2000-A07	2451817.15	2000 Sep 29 1540	CSXT	-	-	0.000	CSXT	SF	U	CSXT/	Test	Rigg	wikipedia.org	-
2002-A04	2452537.18	2002 Sep 19 1620	CSXT	-	-	0.000	CSXT	SF	U	CSXT/	Test	Wire	-	-
2004-S17	2453143.26	2004 May 17 1812:00	CSXT	-	-	0.000	CSXT	SS	-	CSXT/	Test	Wire	-	-
2014-S65	2456853.11	2014 Jul 14 1432	CSXT	-	-	0.000	CSXT	SS	-	CSXT/	Test	rocketryforum.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-226	2460645.10	2024 Nov 30 1425	Chang Zheng 12	-	Y1	SITS	-	-	-	HCSLS	LC2	-	-	-	-	-
2025-M01	2460694.62	2025 Jan 19 0300	Longxing-2	-	1	-	-	-	-	HAIY	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-226	2460645.10	2024 Nov 30 1425	Chang Zheng 12	-	Y1	2.000	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2025-M01	2460694.62	2025 Jan 19 0300	Longxing-2	-	1	0.000	SAST	AS	-	-	Test	spacenews.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2016-065	2457696.03	2016 Nov 3 1243:14	Chang Zheng 5/YZ-2	-	Y1	Shi Jian 17	SJ-17	-	-	WEN	LC101	-	-	40005	-	-
2017-F03	2457936.97	2017 Jul 2 1123:23	Chang Zheng 5	-	Y2	Shi Jian 18	SJ-18	-	-	WEN	LC101	-	-	170?	-	-
2019-097	2458845.03	2019 Dec 27 1245	Chang Zheng 5	-	Y3	Shi Jian 20	SJ-20	-	-	WEN	LC101	-	-	73782	-	-
2020-027	2458974.92	2020 May 5 1000:27	Chang Zheng 5B	-	Y1	XZF-SC/RCS-FC-SC	XZF-FC/RCS-FC-SC	-	-	WEN	LC101	-	-	6277	-	-
2020-049	2459053.70	2020 Jul 23 0441:12	Chang Zheng 5	-	Y4	Tianwen-1	Tianwen-1	-	-	WEN	LC101	-	-	150000	-	-
2020-087	2459177.35	2020 Nov 23 2030:22	Chang Zheng 5	-	Y5	Chang'e-5	Chang'e-5	-	-	WEN	LC101	-	-	150000	-	-
2021-035	2459333.64	2021 Apr 29 0323:16	Chang Zheng 5B	-	Y2	Tianhe	Tianhe	-	-	WEN	LC101	-	-	401	-	-
2022-085	2459784.77	2022 Jul 24 0622:30	Chang Zheng 5B	-	Y3	Wentian	Wentian	-	-	WEN	LC101	-	-	435	-	-
2022-143	2459883.82	2022 Oct 31 0737:23	Chang Zheng 5B	-	Y4	Mengtian	Mengtian	-	-	WEN	LC101	-	-	-	-	-
2023-197	2460294.07	2023 Dec 15 1341	Chang Zheng 5	-	Y6	Yaogan 41	Yaogan 41	-	-	WEN	LC101	-	-	-	-	-
2024-037	2460363.98	2024 Feb 23 1130	Chang Zheng 5	-	Y7	TJS 11	TJS 11	-	-	WEN	LC101	-	-	-	-	-
2024-083	2460433.89	2024 May 3 0927:29	Chang Zheng 5	-	Y8	Chang'e-6	Chang'e-6	-	-	WEN	LC101	-	-	-	-	-
2024-240	2460660.92	2024 Dec 16 1000	Chang Zheng 5B/YZ-2	-	Y6/Y2	WHWD 01	WHWD 01	-	-	WEN	LC101	-	-	-	-	-
2025-086	2460794.34	2025 Apr 28 2010	Chang Zheng 5B/YZ-2	-	Y7/Y3	WHWD 03	WHWD 03	-	-	WEN	LC101	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2016-065	2457696.03	2016 Nov 3 1243:14	Chang Zheng 5/YZ-2	-	Y1	3.000	CALT	OS	-	G	Sat GEO OO	nasaspaceflight.com	xinhuanet.com	-
2017-F03	2457936.97	2017 Jul 2 1123:23	Chang Zheng 5	-	Y2	8.000	CALT	OF	S1P	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	One engine f.
2019-097	2458845.03	2019 Dec 27 1245	Chang Zheng 5	-	Y3	7.600	CALT	OS	-	G	Sat STO O	nasaspaceflight.com	xinhuanet.com	-
2020-027	2458974.92	2020 May 5 1000:27	Chang Zheng 5B	-	Y1	21.800	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2020-049	2459053.70	2020 Jul 23 0441:12	Chang Zheng 5	-	Y4	4.921	CALT	DS	-	G	Sat EEO E	nasaspaceflight.com	xinhuanet.com	-
2020-087	2459177.35	2020 Nov 23 2030:22	Chang Zheng 5	-	Y5	8.250	CALT	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2021-035	2459333.64	2021 Apr 29 0323:16	Chang Zheng 5B	-	Y2	29.500	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2022-085	2459784.77	2022 Jul 24 0622:30	Chang Zheng 5B	-	Y3	23.050	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2022-143	2459883.82	2022 Oct 31 0737:23	Chang Zheng 5B	-	Y4	23.000	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2023-197	2460294.07	2023 Dec 15 1341	Chang Zheng 5	-	Y6	12.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-037	2460363.98	2024 Feb 23 1130	Chang Zheng 5	-	Y7	10.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-083	2460433.89	2024 May 3 0927:29	Chang Zheng 5	-	Y8	8.257	CALT	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2024-240	2460660.92	2024 Dec 16 1000	Chang Zheng 5B/YZ-2	-	Y6/Y2	10.000	CALT	OS	-	G	Sat LEO D	nasaspaceflight.com	xinhuanet.com	-
2025-086	2460794.34	2025 Apr 28 2010	Chang Zheng 5B/YZ-2	-	Y7/Y3	10.000	CALT	OS	-	G	Sat LEO D	nasaspaceflight.com	xinhuanet.com	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S226	2441045.21	1971 Apr 3 1700	Athena H	-	H001JD [125]	ROCS	ABRES ROCS	-	-	GRLC	-	-	-	200?	-	-
1971-S391	2441177.17	1971 Aug 13 1600	Athena H	-	H002 [130]	ADE-2	ABRES ADE-2	-	-	GRLC	-	-	-	200?	-	-
1972-S122	2441394.15	1972 Mar 17 1531	Athena H	-	H003 [133]	SAMAST-1B	ABRES SAMAST 1B	-	-	GRLC	-	-	-	281	-	-
1972-S285	2441541.89	1972 Aug 12 0928?	Athena H	-	H004 [134]	RVTO-3B-2	ABRES RVTO-3B-2	-	-	GRLC	-	-	-	200?	-	-
1972-S365	2441617.50	1972 Oct 27	Athena H	-	H007 [135]	ABC-2	ABRES ABC-2	-	-	GRLC	-	-	-	200?	-	-
1973-S12	2441694.84	1973 Jan 12 0805	Athena H	-	H005 [136]	RANT	ABRES RANT	-	-	GRLC	-	-	-	200?	-	-
1973-S13	2441694.92	1973 Jan 12 1005	Athena H	-	H009 [137]	ABC-1	ABRES ABC-1	-	-	GRLC	-	-	-	200?	-	-
1973-S126	2441771.15	1973 Mar 29 1538	Athena H	-	H006 [138]	RVTO-3B-3	ABRES RVTO-3B-3	-	-	GRLC	-	-	-	200?	-	-
1973-S127	2441771.22	1973 Mar 29 1723	Athena H	-	H008 [139]	RVTO-3B-1	ABRES RVTO-3B-1	-	-	GRLC	-	-	-	200?	-	-
1973-S156	2441799.70	1973 Apr 27 0450	Athena H	-	H010 [140]	RVTO-3B S/N 104?	ABRES RVTO-3B-4	-	-	GRLC	-	-	-	200?	-	-
1973-S285	2441918.80	1973 Aug 24 0715	Athena H	-	H011 [141]	ABC-3	ABRES ABC-3	-	-	GRLC	-	-	-	200?	-	-
1974-S98	2442091.50	1974 Feb 13	Athena H	-	H012? [144]	Mk 12 RV?	HAVE MILL 1	-	-	WAKE	-	-	-	450?	-	-
1974-S128	2442115.50	1974 Mar 9	Athena H	-	H013? [145]	Mk 12 RV?	HAVE MILL 2	-	-	WAKE	-	-	-	450?	-	-
1974-S150	2442130.50	1974 Mar 24	Athena H	-	H014? [146]	Mk 12 RV?	HAVE MILL 3	-	-	WAKE	-	-	-	450?	-	-
1974-S199	2442186.50	1974 May 19	Athena H	-	H015 [149]	Mk 12 Mod	HAVE MILL 4	-	-	WAKE	-	-	-	450?	-	-
1974-S205	2442196.50	1974 May 29	Athena H	-	H016? [150]	Mk 12 RV?	HAVE MILL 5	-	-	WAKE	-	-	-	450?	-	-
1974-S218	2442211.50	1974 Jun 13	Athena H	-	H017? [151]	Mk 12 Blunt	HAVE MILL 6	-	-	WAKE	-	-	-	450?	-	-
1974-S232	2442221.50	1974 Jun 23	Athena H	-	H018? [152]	Mk 12 Decoy	HAVE MILL 7	-	-	WAKE	-	-	-	450?	-	-
1991-S105	2448384.66	1991 May 8 0354:00	Maxus	-	MAXUS 1	SSC MAXUS 1	SSC MAXUS 1	-	-	ESR	A	-	-	157	-	-
1991-A03	2448425.98	1991 Jun 18 1134	Prospector	-	JOUST 1	-	-	-	-	CC	LC20	-	-	2	-	-
1992-S87	2448911.50	1992 Oct 16	Castor 4A	-	SPFE 6/Orbus 1	-	-	-	-	WAKE	-	-	-	500?	-	-
1992-S92	2448934.93	1992 Nov 8 1025	Maxus	-	MAXUS 1B	SSC MAXUS 1B	SSC MAXUS 1B	-	-	ESR	A	-	-	717	-	-
1995-F05	2450014.42	1995 Oct 23 2203	Conestoga 1620	-	F1	Meteor 1	Meteor SM	-	-	WI	LAOA	-	-	10	-	-
1995-S82	2450049.90	1995 Nov 28 0942	Maxus	-	MAXUS 2	SSC MAXUS 2	-	-	-	ESR	A	-	-	705	-	-
1996-S43	2450280.26	1996 Jul 15 1821	Castor 4B	-	TCMP IIB	IRLV	-	-	-	WAKE	-	-	-	317	-	-
1997-S18	2450501.50	1997 Feb 22	Castor 4B	-	TCMP II	IRLV	-	-	-	WAKE	-	-	-	300?	-	-
1997-S22	2450508.50	1997 Mar 1	Castor 4B	-	TCMP IIC	IRLV	-	-	-	WAKE	-	-	-	300?	-	-
1998-S65	2451141.91	1998 Nov 24 0953	Maxus	-	MAXUS 3	SSC MAXUS 3	-	-	-	ESR	A	-	-	713	-	-
1999-S60	2451437.38	1999 Sep 15 2100	Castor-M57A1	-	ait-2	-	-	-	-	KLC	LP2	-	-	1060	-	-
2001-S19	2452028.98	2001 Apr 29 1128	Maxus	-	MAXUS 4	SSC MAXUS 4	-	-	-	ESR	A	-	-	705	-	-
2003-S15	2452730.75	2003 Apr 1 0600:00	Maxus	-	MAXUS 5	SSC MAXUS 5	-	-	-	ESR	A	-	-	701	-	-
2004-S66	2453331.86	2004 Nov 22 0835:00	Maxus	-	MAXUS 6	SSC MAXUS 6	-	-	-	ESR	A	-	-	706	-	-
2005-S17	2453469.23	2005 Apr 8 1730	MRT	-	MRT	MRT-1 RRF	-	-	C-17	HICK	RW08R/26L	MID	LP3	500?	-	-
2005-S32	2453586.50	2005 Aug 4	Castor 4B	-	CMCM-1	-	-	-	-	KAU	-	-	-	400?	-	-
2005-S34	2453601.15	2005 Aug 18 1540?	Castor 4B	-	CMCM-1	-	-	-	-	KAU	-	-	-	400?	-	-
2006-S19	2453857.76	2006 May 2 0616	Maxus	-	MAXUS 7	SSC MAXUS 7	-	-	-	ESR	A	-	-	702	-	-
2005-S51	2453692.26	2005 Nov 17 1812	MRT	-	Aegis FTM-04-2 Targ.	MRT-2 (Sep MRT)	-	-	-	KAU	-	-	-	150?	-	-
2006-S29	2453909.42	2006 Jun 22 2200?	MRT	-	Aegis FTM-10 Target	MRT-3 (Sep MRT)	-	-	-	KAU	-	-	-	150?	-	-
2007-S27	2454274.61	2007 Jun 23 0240	MRT	-	Aegis FTM-12-3 Targ	MRT-4 MBRV-3?	-	-	-	KAU	-	-	-	150?	-	-
2007-S62	2454419.50	2007 Nov 15	MRT	?	Aegis JFTM Target	MBRV-3?	-	-	-	KAU	-	-	-	160?	-	-
2007-S68	2454452.42	2007 Dec 17 2205	MRT	-	Aegis JFTM-1 Target	MRT-5 MBRV-3? Sep	-	-	-	KAU	-	-	-	150?	-	-
2008-S29	2454643.59	2008 Jun 26 0216	MRT	-	THAAD FTT-09 Target	MRT-6 (Sep)	-	-	C-17	HICK	RW08R/26L	MID	LP3?	500?	-	-
2008-S54	2454769.50	2008 Oct 30	MRT	?	Aegis target	MRT-7 Japan SM-3 Tgt	-	-	-	KAU	-	-	-	150?	-	-
2008-S65	2454790.60	2008 Nov 20 0221	MRT	-	JFTM-2 TRACKEX	MRT-8 TRACKEX	[Or ARAV-B?]	-	-	KAU	-	-	-	150?	-	-
2009-S56	2455132.67	2009 Oct 28 0400	MRT	-	Aegis JFTM-3 target	MRT-9 (Sep MRT)	-	-	-	KAU	-	-	-	150?	-	-
2010-S24	2455282.07	2010 Mar 26 1343	Maxus	-	MAXUS 8	SSC MAXUS 8	-	-	-	ESR	A	-	-	700	-	-
2010-S66	2455498.63	2010 Oct 29 0306	MRT	-	Aegis JFTM-4 target	MRT-10 (Sep MRT)	-	-	-	KAU	-	-	-	150?	-	-
2012-S32	2456105.89	2012 Jun 27 0915	MRT	-	Aegis target	MRT-11 Sep Target	-	-	-	KAU	-	-	-	150?	-	-
2017-S27	2457850.90	2017 Apr 7 0930	Maxus	-	MAXUS 9	SSC MAXUS 9	-	-	-	ESR	A	-	-	678	-	-
2019-S81	2458830.19	2019 Dec 12 1630	MRT	?	IRBM Test	IRBM Test	-	-	-	V	TP-01	-	-	500?	1200?	Pacific

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S226	2441045.21	1971 Apr 3 1700	Athena H	-	H001JD [125]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTIndep710408	SAMSO-LL	-
1971-S391	2441177.17	1971 Aug 13 1600	Athena H	-	H002 [130]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTInd710819	SAMSO	-
1972-S122	2441394.15	1972 Mar 17 1531	Athena H	-	H003 [133]	0.000	SAMSO	MS	-	-	Reentry Test	SunAdvocate720323	SAMSO	-
1972-S285	2441541.89	1972 Aug 12 0928?	Athena H	-	H004 [134]	0.000	SAMSO	MS	-	-	Reentry Test	Wire	SAMSO	-
1972-S365	2441617.50	1972 Oct 27	Athena H	-	H007 [135]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO/Wire	-	-
1973-S12	2441694.84	1973 Jan 12 0805	Athena H	-	H005 [136]	0.000	SAMSO	MS	-	-	Reentry Test	AP	-	-
1973-S13	2441694.92	1973 Jan 12 1005	Athena H	-	H009 [137]	0.000	SAMSO	MS	-	-	Reentry Test	AP	-	-
1973-S126	2441771.15	1973 Mar 29 1538	Athena H	-	H006 [138]	0.000	SAMSO	MS	-	-	Reentry Test	SunAdvocate730405	-	-
1973-S127	2441771.22	1973 Mar 29 1723	Athena H	-	H008 [139]	0.000	SAMSO	MS	-	-	Reentry Test	SunAdvocate730405	-	-
1973-S156	2441799.70	1973 Apr 27 0450	Athena H	-	H010 [140]	0.000	SAMSO	MS	-	-	Reentry Test	AP	-	-
1973-S285	2441918.80	1973 Aug 24 0715	Athena H	-	H011 [141]	0.000	SAMSO	MS	-	-	Reentry Test	AP	SAMSO	-
1974-S98	2442091.50	1974 Feb 13	Athena H	-	H012? [144]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO	AWST740304-49	-
1974-S128	2442115.50	1974 Mar 9	Athena H	-	H013? [145]	0.000	SAMSO	MS	-	-	Reentry Test	JCM	-	-
1974-S150	2442130.50	1974 Mar 24	Athena H	-	H014? [146]	0.000	SAMSO	MS	-	-	Reentry Test	JCM	-	-
1974-S199	2442186.50	1974 May 19	Athena H	-	H015 [149]	0.000	SAMSO	MS	-	-	Reentry Test	JCM	-	-
1974-S205	2442196.50	1974 May 29	Athena H	-	H016? [150]	0.000	SAMSO	MS	-	-	Reentry Test	JCM	-	-
1974-S218	2442211.50	1974 Jun 13	Athena H	-	H017? [151]	0.000	SAMSO	MS	-	-	Reentry Test	JCM	-	-
1974-S232	2442221.50	1974 Jun 23	Athena H	-	H018? [152]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO	-	-
1991-S105	2448384.66	1991 May 8 0354:00	Maxus	-	MAXUS 1	0.000	SSC	SF	U	SSC/ESTEC/	Micrograv	SSC-WWW	-	-
1991-A03	2448425.98	1991 Jun 18 1134	Prospector	-	JOUST 1	0.000	OSC	SF	U	UAHCM/	Micrograv	AWST910624-30	-	-
1992-S87	2448911.50	1992 Oct 16	Castor 4A	-	SPFE 6/Orbus 1	0.000	OSC	SF	S1	SDIO/	Reentry Test	AWST921109-62	-	-
1992-S92	2448934.93	1992 Nov 8 1025	Maxus	-	MAXUS 1B	0.000	SSC/DLR	SS	-	SSC/ESTEC/	Micrograv	Moraba	SSC-WWW	-
1995-F05	2450014.42	1995 Oct 23 2203	Conestoga 1620	-	F1	0.840	EER	OF	FS	C	Sat LEO O	Wire	-	Strapon attach f. T+45s
1995-S82	2450049.90	1995 Nov 28 0942	Maxus	-	MAXUS 2	0.000	SSC/DLR	SS	-	SSC/ESTEC/	Micrograv	ESAPR56-95	Moraba	-
1996-S43	2450280.26	1996 Jul 15 1821	Castor 4B	-	TCMP IIB	0.000	OSC	SS	-	MITLL/	Reentry Test	PR/OSC960730	SN960812-11	-
1997-S18	2450501.50	1997 Feb 22	Castor 4B	-	TCMP II	0.000	OSC	SS	-	MITLL/	Reentry Test	www.smdc.army.mil	-	-
1997-S22	2450508.50	1997 Mar 1	Castor 4B	-	TCMP IIC	0.000	OSC	SS	-	MITLL/	Reentry Test	www.smdc.army.mil	-	-
1998-S65	2451141.91	1998 Nov 24 0953	Maxus	-	MAXUS 3	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Bio/Physics	Moraba	SN981130-11	-
1999-S60	2451437.38	1999 Sep 15 2100	Castor-M57A1	-	ait-2	0.000	AFSMC	MS	-	-	Test	Wire	-	-
2001-S19	2452028.98	2001 Apr 29 1128	Maxus	-	MAXUS 4	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	SN010507-24	-	-
2003-S15	2452730.75	2003 Apr 1 0600:00	Maxus	-	MAXUS 5	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	www.ssc.se	JScR41-644	-
2004-S66	2453331.86	2004 Nov 22 0835:00	Maxus	-	MAXUS 6	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	www.ssc.se	-	-
2005-S17	2453469.23	2005 Apr 8 1730	MRT	-	MRT	0.000	OSC	MS	-	-	Test	acq.osd.mil	orbital.com	-
2005-S32	2453586.50	2005 Aug 4	Castor 4B	-	CMCM-1	0.000	MDA	MS	-	-	Test	acq.osd.mil	-	-
2005-S34	2453601.15	2005 Aug 18 1540?	Castor 4B	-	CMCM-1	0.000	MDA	MS	-	-	Test	honoluluadvertiser	www.orbital.com	-
2006-S19	2453857.76	2006 May 2 0616	Maxus	-	MAXUS 7	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	www.ssc.se	-	-
2005-S51	2453692.26	2005 Nov 17 1812	MRT	-	Aegis FTM-04-2 Targ.	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2006-S29	2453909.42	2006 Jun 22 2200?	MRT	-	Aegis FTM-10 Target	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2007-S27	2454274.61	2007 Jun 23 0240	MRT	-	Aegis FTM-12-3 Targ	0.000	USNAEG	MS	-	-	Target	Wire	SandiaNews070706	-
2007-S62	2454419.50	2007 Nov 15	MRT	?	Aegis JFTM Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2007-S68	2454452.42	2007 Dec 17 2205	MRT	-	Aegis JFTM-1 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2008-S29	2454643.59	2008 Jun 26 0216	MRT	-	THAAD FTT-09 Target	0.000	MDA	MS	-	-	Target	Wire	-	-
2008-S54	2454769.50	2008 Oct 30	MRT	?	Aegis target	0.000	USNAEG	MS	-	-	Target	mda.mil	-	-
2008-S65	2454790.60	2008 Nov 20 0221	MRT	-	JFTM-2 TRACKEX	0.000	USNAEG	MS	-	-	Target	mda.mil	NGARAV	-
2009-S56	2455132.67	2009 Oct 28 0400	MRT	-	Aegis JFTM-3 target	0.000	USNAEG	MS	-	-	Target	mda.mil	-	-
2010-S24	2455282.07	2010 Mar 26 1343	Maxus	-	MAXUS 8	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	www.ssc.se	-	-
2010-S66	2455498.63	2010 Oct 29 0306	MRT	-	Aegis JFTM-4 target	0.000	USNAEG	MS	-	-	Target	mda.mil	orbital.com	-
2012-S32	2456105.89	2012 Jun 27 0915	MRT	-	Aegis target	0.000	USNAEG	MS	-	-	Target	mda.mil	-	-
2017-S27	2457850.90	2017 Apr 7 0930	Maxus	-	MAXUS 9	0.000	SSC/ESA	SS	-	SSC/ESTEC/	Micrograv	www.ssc.se	-	-
2019-S81	2458830.19	2019 Dec 12 1630	MRT	?	IRBM Test	0.000	SCO	MS	-	-	Test	vandenberg.af.mil	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S636	2437989.50	1962 Nov 21	Cedre 3	-	Cedar 3	-	-	-	-	DBAY	-	-	-	40?	-	-
1964-S790	2438394.50	1964?	Cedre 4	-	Cedar 4	-	-	-	-	DBAY	-	-	-	40?	-	-
1964-S791	2438394.50	1964?	Cedre 4	?	Cedar 5	-	-	-	-	DBAY	-	-	-	40?	-	-
1964-S792	2438661.50	1964 Sep 23	Cedre 4	?	Cedar 6	-	-	-	-	DBAY	-	-	-	60?	-	-
1966-A586	2439257.50	1966 May 12	Cedre 4	?	Cedar 7	-	-	-	-	DBAY	-	-	-	60?	-	-
1966-S745	2439341.50	1966 Aug 4	Cedre 4	?	Cedar 8?	-	-	-	-	DBAY	-	-	-	140	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S636	2437989.50	1962 Nov 21	Cedre 3	-	Cedar 3	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-
1964-S790	2438394.50	1964?	Cedre 4	-	Cedar 4	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-
1964-S791	2438394.50	1964?	Cedre 4	?	Cedar 5	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-
1964-S792	2438661.50	1964 Sep 23	Cedre 4	?	Cedar 6	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-
1966-A586	2439257.50	1966 May 12	Cedre 4	?	Cedar 7	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-
1966-S745	2439341.50	1966 Aug 4	Cedre 4	?	Cedar 8?	0.000	LRS	SS	-	LRS/	Test	chanitz.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-F06	2460095.39	2023 May 30 2127	Cheonlima-1	-	6	Manligyeong-1	-	-	-	SOHAE	LC2	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Agency	Launch_Code	Group	Category	LTCite	Cite	Notes
2023-F06	2460095.39	2023 May 30 2127	Cheonlima-1	-	6	KCST	OF	G	Sat SSO O	nknews.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A201	2437558.50	1961 Sep 16	Cirrus I	-	-	-	-	-	-	CUX	-	-	-	35	-	-
1961-M25	2437558.50	1961 Sep 16	Cirrus II	-	-	-	-	-	-	CUX	-	-	-	50	-	-
1963-A241	2438076.50	1963 Feb 16	Cirrus II	?	Cirrus B	-	-	-	-	CUX	-	-	-	38	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A201	2437558.50	1961 Sep 16	Cirrus I	-	-	0.000	DRG	SS	-	HOG/Mohr	Test	astronautix.com	Burgess,Dubbs	-
1961-M25	2437558.50	1961 Sep 16	Cirrus II	-	-	0.000	DRG	SS	-	HOG/Mohr	Test	astronautix.com	-	-
1963-A241	2438076.50	1963 Feb 16	Cirrus II	?	Cirrus B	0.000	DRG	SS	-	HOG/Mohr	Test	Weltraumfahrt63-4	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A145	2439456.89	1966 Nov 27 0921:14	Cora	-	G1	-	-	-	-	HMG	Beatrice	-	-	12	-	-
1966-M46	2439477.89	1966 Dec 18 0915	Cora	-	G2	-	-	-	-	HMG	Beatrice	-	-	55	-	-
1967-A129	2439789.15	1967 Oct 25 1534	Cora	-	G3	-	-	-	-	CEL	BS	-	-	10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A145	2439456.89	1966 Nov 27 0921:14	Cora	-	G1	0.000	CNES	TF	S1G	-	Test	EuropaBlog	Rothmund	-
1966-M46	2439477.89	1966 Dec 18 0915	Cora	-	G2	0.000	CNES	TS	-	-	Test	Rothmund	-	-
1967-A129	2439789.15	1967 Oct 25 1534	Cora	-	G3	0.000	CNES	TF	S1	-	Test	CNES-PR	Rothmund	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1947-A12	2432327.50	1947 May 22	Corporal E	-	1	31D	-	-	-	WS	LC33	-	-	39	-	-
1947-A14	2432384.23	1947 Jul 17 1730	Corporal E	-	2	33E	-	-	-	WS	LC33	-	-	0	-	-
1947-A30	2432494.46	1947 Nov 4 2305	Corporal E	-	3	-	-	-	-	WS	LC33	-	-	20	-	-
1949-A22	2433074.50	1949 Jun 7	Corporal E	-	4E	4E	-	-	-	WS	LC33	-	-	20	-	-
1950-M06	2433473.50	1950 Jul 11	Corporal E	-	5E	-	-	-	-	WS	LC33	-	-	50?	-	-
1950-M12	2433587.50	1950 Nov 2	Corporal E	-	6E	-	-	-	-	WS	LC33	-	-	50?	-	-
1951-M01	2433662.50	1951 Jan 16	Corporal E	-	7R	-	-	-	-	WS	LC33	-	-	50?	-	-
1951-M02	2433727.50	1951 Mar 22	Corporal E	-	8R	-	-	-	-	WS	LC33	-	-	50?	-	-
1951-M06	2433839.50	1951 Jul 12	Corporal E	-	9R	-	-	-	-	WS	LC33	-	-	50?	-	-
1951-A70	2433929.50	1951 Oct 10	Corporal E	-	11-10	-	-	-	-	WS	LC33	-	-	0?	-	-
1951-A90	2433986.50	1951 Dec 06	Corporal	-	12R	Corporal I	-	-	-	WS	-	-	-	30?	-	-
1952-A09	2434035.50	1952 Jan 24	Corporal	-	14-12R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A16	2434040.50	1952 Jan 29	Corporal	-	15-13 R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A43	2434083.50	1952 Mar 12	Corporal	-	17-14R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A46	2434088.50	1952 Mar 17	Corporal	-	18-15	-	-	-	-	WS	-	-	-	30?	-	-
1952-A50	2434092.50	1952 Mar 21	Corporal	-	19-16	-	-	-	-	WS	-	-	-	30?	-	-
1952-A68	2434126.50	1952 Apr 24	Corporal	-	21-17	-	-	-	-	WS	-	-	-	30?	-	-
1952-A71	2434131.50	1952 Apr 29	Corporal	-	22-18	-	-	-	-	WS	-	-	-	30?	-	-
1952-A74	2434144.50	1952 May 12	Corporal	-	23-19	-	-	-	-	WS	-	-	-	30?	-	-
1952-A76	2434148.50	1952 May 16	Corporal	-	24-20RSC	-	-	-	-	WS	-	-	-	30?	-	-
1952-A88	2434155.50	1952 May 23	Corporal	-	21R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A100	2434182.50	1952 Jun 19	Corporal	-	22R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A287	2434187.50	1952 Jun 24	Corporal	-	23R	-	-	-	-	WS	-	-	-	9	-	-
1952-A103	2434190.50	1952 Jun 27	Corporal	-	24R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A106	2434195.50	1952 Jul 02	Corporal	-	99R	Special?	-	-	-	WS	-	-	-	30?	-	-
1952-A111	2434204.50	1952 Jul 11	Corporal	-	25R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A113	2434210.50	1952 Jul 17	Corporal	-	26R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A119	2434221.50	1952 Jul 28	Corporal	-	27R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A129	2434231.50	1952 Aug 07	Corporal	-	28R	Firestone	-	-	-	WS	-	-	-	30?	-	-
1952-A134	2434236.50	1952 Aug 12	Corporal	-	29R	Firestone	-	-	-	WS	-	-	-	30?	-	-
1952-A144	2434251.50	1952 Aug 27	Corporal	-	30R	Firestone	-	-	-	WS	-	-	-	30?	-	-
1952-A155	2434267.50	1952 Sep 12	Corporal	-	31R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A164	2434280.50	1952 Sep 25	Corporal	-	32R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A170	2434287.50	1952 Oct 02	Corporal	-	33R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A216	2434326.50	1952 Nov 10	Corporal	-	34R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A218	2434329.50	1952 Nov 13	Corporal	-	35R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A224	2434333.50	1952 Nov 17	Corporal	-	36R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A233	2434336.50	1952 Nov 20	Corporal	-	37R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A250	2434349.50	1952 Dec 03	Corporal	-	38R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A262	2434355.50	1952 Dec 09	Corporal	-	39R	-	-	-	-	WS	-	-	-	30?	-	-
1952-A270	2434362.50	1952 Dec 16	Corporal	-	40R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A12	2434390.50	1953 Jan 13	Corporal	-	41R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A23	2434399.50	1953 Jan 22	Corporal	-	42R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A40	2434407.50	1953 Jan 30	Corporal	-	1E/1247	EU-1	-	-	-	WS	-	-	-	30?	-	-
1953-A43	2434413.50	1953 Feb 05	Corporal	-	43R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A70	2434428.50	1953 Feb 20	Corporal	-	52R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A80	2434434.50	1953 Feb 26	Corporal	-	51E/1251	EU-2	-	-	-	WS	-	-	-	30?	-	-
1953-A106	2434448.50	1953 Mar 12	Corporal	-	57RS	-	-	-	-	WS	-	-	-	30?	-	-
1953-A139	2434459.50	1953 Mar 23	Corporal	-	3EBN/1261	EU-3	-	-	-	WS	-	-	-	30?	-	-
1953-A156	2434469.50	1953 Apr 02	Corporal	-	1260RS	-	-	-	-	WS	-	-	-	30?	-	-
1953-A182	2434488.50	1953 Apr 21	Corporal	-	1259RS	-	-	-	-	WS	-	-	-	30?	-	-
1953-A188	2434494.50	1953 Apr 27	Corporal	-	1262 RS	-	-	-	-	WS	-	-	-	30?	-	-
1953-A217	2434511.50	1953 May 14	Corporal	-	4EBN	EU-4	-	-	-	WS	-	-	-	30?	-	-
1953-A222	2434518.50	1953 May 21	Corporal	-	1264R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A223	2434519.50	1953 May 22	Corporal	-	1210R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A229	2434526.50	1953 May 29	Corporal	-	1266R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A235	2434536.50	1953 Jun 08	Corporal	-	5EBN	EU-5	-	-	-	WS	-	-	-	30?	-	-
1953-A249	2434547.50	1953 Jun 19	Corporal	-	1268R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A279	2434560.50	1953 Jul 02	Corporal	-	1277R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A282	2434565.50	1953 Jul 07	Corporal	-	1267E	EU-6	-	-	-	WS	-	-	-	30?	-	-
1953-A294	2434574.50	1953 Jul 16	Corporal	-	1278R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A310	2434593.50	1953 Aug 04	Corporal	-	1269E	EU-7	-	-	-	WS	-	-	-	30?	-	-
1953-A314	2434595.50	1953 Aug 06	Corporal	-	1300R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A315	2434595.50	1953 Aug 06	Corporal	-	1301R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A323	2434602.50	1953 Aug 13	Corporal	-	1297E	EU-8	-	-	-	WS	-	-	-	1?	-	-
1953-A356	2434634.50	1953 Sep 14	Corporal	-	1352R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A364	2434643.50	1953 Sep 23	Corporal	-	1253R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A368	2434644.50	1953 Sep 24	Corporal	-	1352R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A375	2434649.50	1953 Sep 29	Corporal	-	1302R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A377	2434651.50	1953 Oct 01	Corporal	-	1299E	EU-9	-	-	-	WS	-	-	-	30?	-	-
1953-A392	2434658.50	1953 Oct 08	Corporal	-	1355R	Type II proto	-	-	-	WS	-	-	-	30?	-	-
1953-A415	2434663.50	1953 Oct 13	Corporal	-	1351E	EU-10	-	-	-	WS	-	-	-	30?	-	-
1953-A400	2434665.50	1953 Oct 15	Corporal	-	1357R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A419	2434677.50	1953 Oct 27	Corporal	-	1305E	EU-11	-	-	-	WS	-	-	-	30?	-	-
1953-A432	2434685.50	1953 Nov 04	Corporal	-	1303R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A434	2434687.50	1953 Nov 06	Corporal	-	1358R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A439	2434694.50	1953 Nov 13	Corporal	-	1359R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A447	2434700.50	1953 Nov 19	Corporal	-	1391R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A468	2434714.50	1953 Dec 03	Corporal	-	1392R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A474	2434721.50	1953 Dec 10	Corporal	-	1393R	-	-	-	-	WS	-	-	-	30?	-	-
1953-A477	2434726.50	1953 Dec 15	Corporal	-	12EN	EU-12	-	-	-	WS	-	-	-	30?	-	-
1953-A487	2434728.50	1953 Dec 17	Corporal	-	1356R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A13	2434754.50	1954 Jan 12	Corporal	-	13EN	EU-13	-	-	-	WS	-	-	-	30?	-	-
1954-A17	2434757.50	1954 Jan 15	Corporal	-	1394R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A28	2434763.50	1954 Jan 21	Corporal	-	1395R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A31	2434764.50	1954 Jan 22	Corporal	-	1312E	EU-14	-	-	-	WS	-	-	-	2?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A34	2434770.50	1954 Jan 28	Corporal	-	1360R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A52	2434784.50	1954 Feb 11	Corporal	-	1284R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A64	2434791.50	1954 Feb 18	Corporal	-	1294RD	-	-	-	-	WS	-	-	-	30?	-	-
1954-A107	2434810.50	1954 Mar 09	Corporal	-	1293R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A112	2434819.50	1954 Mar 18	Corporal	-	1246T-1	-	-	-	-	WS	RC?	-	-	30?	-	-
1954-A123	2434825.50	1954 Mar 24	Corporal	-	2T	-	-	-	-	WS	RC?	-	-	30?	-	-
1954-A125	2434827.50	1954 Mar 26	Corporal	-	3T	-	-	-	-	WS	-	-	-	30?	-	-
1954-A169	2434846.50	1954 Apr 14	Corporal	-	1401RJ	-	-	-	-	WS	-	-	-	30?	-	-
1954-A173	2434847.50	1954 Apr 15	Corporal	-	1296RJ-S	-	-	-	-	WS	-	-	-	30?	-	-
1954-A197	2434859.50	1954 Apr 27	Corporal	-	4T	-	-	-	-	WS	-	-	-	30?	-	-
1954-A227	2434865.50	1954 May 03	Corporal	-	5T	-	-	-	-	WS	-	-	-	30?	-	-
1954-A230	2434866.50	1954 May 04	Corporal	-	1326E	-	-	-	-	WS	-	-	-	30?	-	-
1954-A251	2434873.50	1954 May 11	Corporal	-	1295R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A281	2434880.50	1954 May 18	Corporal	-	1403R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A296	2434887.50	1954 May 25	Corporal	-	1314E	-	-	-	-	WS	-	-	-	30?	-	-
1954-A301	2434889.50	1954 May 27	Corporal	-	1404R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A329	2434901.50	1954 Jun 08	Corporal	-	1316E	-	-	-	-	WS	-	-	-	30?	-	-
1954-A330	2434901.50	1954 Jun 08	Corporal	-	1402R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A357	2434910.50	1954 Jun 17	Corporal	-	1405RS	High Alt?	-	-	-	WS	-	-	-	30?	-	-
1954-A364	2434915.50	1954 Jun 22	Corporal	-	6T	-	-	-	-	WS	-	-	-	30?	-	-
1954-A381	2434922.50	1954 Jun 29	Corporal	-	T-7	-	-	-	-	WS	-	-	-	30?	-	-
1954-A382	2434922.50	1954 Jun 29	Corporal	-	1310	-	-	-	-	WS	-	-	-	30?	-	-
1954-A393	2434925.50	1954 Jul 02	Corporal	-	T-8	-	-	-	-	WS	-	-	-	30?	-	-
1954-A408	2434936.50	1954 Jul 13	Corporal	-	T-9	-	-	-	-	WS	-	-	-	30?	-	-
1954-A429	2434945.50	1954 Jul 22	Corporal	-	1328E	-	-	-	-	WS	-	-	-	30?	-	-
1954-A443	2434950.50	1954 Jul 27	Corporal	-	1276R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A457	2434952.50	1954 Jul 29	Corporal	-	1406R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A510	2434994.50	1954 Sep 09	Corporal	-	1407R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A511	2434995.50	1954 Sep 10	Corporal	-	1445E	-	-	-	-	WS	-	-	-	30?	-	-
1954-A529	2435006.50	1954 Sep 21	Corporal	-	1408RO	-	-	-	-	WS	-	-	-	30?	-	-
1954-A537	2435008.50	1954 Sep 23	Corporal	-	T 10	-	-	-	-	WS	-	-	-	30?	-	-
1954-A538	2435008.50	1954 Sep 23	Corporal	-	T 11	-	-	-	-	WS	-	-	-	30?	-	-
1954-A545	2435013.50	1954 Sep 28	Corporal	-	T 12	-	-	-	-	WS	-	-	-	30?	-	-
1954-A546	2435013.50	1954 Sep 28	Corporal	-	1452EU	-	-	-	-	WS	-	-	-	30?	-	-
1954-A547	2435014.50	1954 Sep 29	Corporal	-	T-14	-	-	-	-	WS	-	-	-	30?	-	-
1954-A548	2435014.50	1954 Sep 29	Corporal	-	T-13	-	-	-	-	WS	-	-	-	30?	-	-
1954-A555	2435015.50	1954 Sep 30	Corporal	-	T-15	-	-	-	-	WS	-	-	-	30?	-	-
1954-A557	2435019.50	1954 Oct 04	Corporal	-	1409RO	-	-	-	-	WS	-	-	-	30?	-	-
1954-A562	2435023.50	1954 Oct 08	Corporal	-	1410RJ	-	-	-	-	WS	-	-	-	30?	-	-
1954-A568	2435028.50	1954 Oct 13	Corporal	-	1554R	-	-	-	-	WS	-	-	-	30?	-	-
1954-A588	2435037.50	1954 Oct 22	Corporal	-	T-16	-	-	-	-	WS	-	-	-	30?	-	-
1954-A597	2435043.50	1954 Oct 28	Corporal	-	1552RO	Type II ORD-437	-	-	-	WS	-	-	-	40?	-	-
1954-A600	2435047.50	1954 Nov 01	Corporal	-	T-17	-	-	-	-	WS	-	-	-	40?	-	-
1954-A642	2435064.50	1954 Nov 18	Corporal	-	1551R	-	-	-	-	WS	-	-	-	40?	-	-
1954-A693	2435089.50	1954 Dec 13	Corporal	-	1554R	-	-	-	-	WS	-	-	-	40?	-	-
1954-A702	2435091.50	1954 Dec 15	Corporal	-	U-1 1462	-	-	-	-	WS	-	-	-	40?	-	-
1954-A709	2435093.50	1954 Dec 17	Corporal	-	1555R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A11	2435118.50	1955 Jan 11	Corporal	-	1556R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A20	2435125.50	1955 Jan 18	Corporal	-	1464U	-	-	-	-	WS	-	-	-	40?	-	-
1955-A21	2435125.50	1955 Jan 18	Corporal	-	1467R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A29	2435126.50	1955 Jan 19	Corporal	-	1466U	-	-	-	-	WS	-	-	-	40?	-	-
1955-A50	2435134.50	1955 Jan 27	Corporal	-	1560R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A111	2435155.50	1955 Feb 17	Corporal	-	1564R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A185	2435181.50	1955 Mar 15	Corporal	-	1565R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A216	2435191.50	1955 Mar 25	Corporal	-	1561E	-	-	-	-	WS	-	-	-	40?	-	-
1955-A231	2435195.50	1955 Mar 29	Corporal	-	1568R	Corporal R	-	-	-	WS	-	-	-	40?	-	-
1955-A245	2435202.50	1955 Apr 05	Corporal	-	1567E	-	-	-	-	WS	-	-	-	40?	-	-
1955-A260	2435204.50	1955 Apr 07	Corporal	-	1574R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A285	2435211.50	1955 Apr 14	Corporal	-	1570E	-	-	-	-	WS	-	-	-	40?	-	-
1955-A582	2435225.50	1955 Apr 28	Corporal	-	1575R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A364	2435244.50	1955 May 17	Corporal	-	1411R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A373	2435250.50	1955 May 23	Corporal	-	1477R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A425	2435264.50	1955 Jun 06	Corporal	-	1473R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A442	2435272.50	1955 Jun 14	Corporal	-	1569R	-	-	-	-	WS	-	-	-	40?	-	-
1955-A583	2435279.50	1955 Jun 21	Corporal	-	1602T	-	-	-	-	WS	-	-	-	40?	-	-
1955-A584	2435282.50	1955 Jun 24	Corporal	-	1603T	-	-	-	-	WS	-	-	-	40?	-	-
1955-A585	2435286.50	1955 Jun 28	Corporal	-	1601T	-	-	-	-	WS	-	-	-	40?	-	-
1955-A586	2435289.50	1955 Jul 1	Corporal	-	1604T	-	-	-	-	WS	-	-	-	40?	-	-
1955-A587	2435299.50	1955 Jul 11	Corporal	-	1571E	-	-	-	-	WS	-	-	-	40?	-	-
1955-A588	2435306.50	1955 Jul 18	Corporal	-	T1331	-	-	-	-	WS	-	-	-	40?	-	-
1955-A589	2435307.50	1955 Jul 19	Corporal	-	T1337	-	-	-	-	WS	-	-	-	40?	-	-
1955-A590	2435307.50	1955 Jul 19	Corporal	-	1566	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A591	2435314.50	1955 Jul 26	Corporal	-	JS1584	Corporal C	-	-	-	WS	-	-	-	40?	-	-
1955-A592	2435314.50	1955 Jul 26	Corporal	-	1465	Corporal T	-	-	-	WS	-	-	-	40?	-	-
1955-A593	2435316.50	1955 Jul 28	Corporal	-	1340	Corporal T	-	-	-	WS	-	-	-	40?	-	-
1955-A594	2435316.50	1955 Jul 28	Corporal	-	1579	Corporal E	-	-	-	WS	-	-	-	40?	-	-
1955-A595	2435323.50	1955 Aug 4	Corporal	-	1585	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A596	2435336.50	1955 Aug 17	Corporal	-	1589	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A597	2435338.50	1955 Aug 19	Corporal	-	1628	Corporal U II	-	-	-	WS	-	-	-	40?	-	-
1955-A598	2435342.50	1955 Aug 23	Corporal	-	1607-JS	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A599	2435345.50	1955 Aug 26	Corporal	-	1388	Corporal T	-	-	-	WS	-	-	-	40?	-	-
1955-A600	2435345.50	1955 Aug 26	Corporal	-	1389	Corporal T	-	-	-	WS	-	-	-	40?	-	-
1955-A601	2435349.50	1955 Aug 30	Corporal	-	1618	Corporal II U-4	-	-	-	WS	-	-	-	40?	-	-
1955-A602	2435351.50	1955 Sep 1	Corporal	-	1614	Corporal II U-3	-	-	-	WS	-	-	-	40?	-	-
1955-A603	2435362.50	1955 Sep 12	Corporal	-	1608	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A604	2435370.50	1955 Sep 20	Corporal	-	1654	Corporal TA-28	-	-	-	WS	-	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A605	2435370.50	1955 Sep 20	Corporal	-	1621	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A606	2435372.50	1955 Sep 22	Corporal	-	1660	Corporal TA-29	-	-	-	WS	-	-	-	40?	-	-
1955-A607	2435373.50	1955 Sep 23	Corporal	-	1659	Corporal T-01	-	-	-	WS	-	-	-	40?	-	-
1955-A608	2435379.50	1955 Sep 29	Corporal	-	1622	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A609	2435380.50	1955 Sep 30	Corporal	-	1657	Corporal T-02	-	-	-	WS	-	-	-	40?	-	-
1955-A610	2435387.50	1955 Oct 7	Corporal	-	1616	Corporal U-5	-	-	-	WS	-	-	-	40?	-	-
1955-A611	2435391.50	1955 Oct 11	Corporal	-	1588	Corporal UM-7	-	-	-	WS	-	-	-	40?	-	-
1955-A612	2435392.50	1955 Oct 12	Corporal	-	1617	Corporal II U-6	-	-	-	WS	-	-	-	40?	-	-
1955-A613	2435394.50	1955 Oct 14	Corporal	-	1662	Corporal TA-30	-	-	-	WS	-	-	-	40?	-	-
1955-A614	2435399.50	1955 Oct 19	Corporal	-	1652	Corporal TA-32	-	-	-	WS	-	-	-	40?	-	-
1955-A615	2435400.50	1955 Oct 20	Corporal	-	1578	Corporal U-II U-8	-	-	-	WS	-	-	-	40?	-	-
1955-A616	2435404.50	1955 Oct 24	Corporal	-	1630	Corporal U-9	-	-	-	WS	-	-	-	40?	-	-
1955-A617	2435404.50	1955 Oct 24	Corporal	-	1658	Corporal TA-33	-	-	-	WS	-	-	-	40?	-	-
1955-A618	2435406.50	1955 Oct 26	Corporal	-	1631	Corporal U-10	-	-	-	WS	-	-	-	40?	-	-
1955-A619	2435411.50	1955 Oct 31	Corporal	-	1626	Corporal UM-11	-	-	-	WS	-	-	-	40?	-	-
1955-A620	2435413.50	1955 Nov 2	Corporal	-	1623	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A621	2435419.50	1955 Nov 8	Corporal	-	1665	Corporal TA-36	-	-	-	WS	-	-	-	40?	-	-
1955-A622	2435421.50	1955 Nov 10	Corporal	-	1664	Corporal TA?	-	-	-	WS	-	-	-	40?	-	-
1955-A623	2435428.50	1955 Nov 17	Corporal	-	1414	Corporal C	-	-	-	WS	-	-	-	40?	-	-
1955-A624	2435429.50	1955 Nov 18	Corporal	-	1459	Corporal Chem	-	-	-	WS	-	-	-	40?	-	-
1955-A625	2435432.50	1955 Nov 21	Corporal	-	1651	Corporal TA-34	-	-	-	WS	-	-	-	40?	-	-
1955-A626	2435432.50	1955 Nov 21	Corporal	-	1667	Corporal TA-35	-	-	-	WS	-	-	-	40?	-	-
1955-A627	2435433.50	1955 Nov 22	Corporal	-	1595	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1955-A628	2435442.50	1955 Dec 1	Corporal	-	1636	Corporal TA-40	-	-	-	WS	-	-	-	40?	-	-
1955-A629	2435443.50	1955 Dec 2	Corporal	-	1677	Corporal TA-38	-	-	-	WS	-	-	-	40?	-	-
1955-A630	2435443.50	1955 Dec 2	Corporal	-	1637	Corporal TA-41	-	-	-	WS	-	-	-	40?	-	-
1955-A631	2435447.50	1955 Dec 6	Corporal	-	1412	Corporal C	-	-	-	WS	-	-	-	40?	-	-
1955-A632	2435448.50	1955 Dec 7	Corporal	-	1656	Corporal TA-39	-	-	-	WS	-	-	-	40?	-	-
1955-A633	2435449.50	1955 Dec 8	Corporal	-	1668	Corporal II U-14	-	-	-	WS	-	-	-	40?	-	-
1955-A634	2435449.50	1955 Dec 8	Corporal	-	1627	Corporal U-13	-	-	-	WS	-	-	-	40?	-	-
1955-A635	2435454.50	1955 Dec 13	Corporal	-	1605	Corporal TA-42	-	-	-	WS	-	-	-	40?	-	-
1955-A636	2435455.50	1955 Dec 14	Corporal	-	1596	Corporal TA-43	-	-	-	WS	-	-	-	40?	-	-
1956-A258	2435485.50	1956 Jan 13	Corporal	-	1669	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A259	2435489.50	1956 Jan 17	Corporal	-	1676	Corporal TA-60	-	-	-	WS	-	-	-	40?	-	-
1956-A260	2435491.50	1956 Jan 19	Corporal	-	1672	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A261	2435492.50	1956 Jan 20	Corporal	-	1597	Corporal TA-45	-	-	-	WS	-	-	-	40?	-	-
1956-A262	2435492.50	1956 Jan 20	Corporal	-	1679	Corporal TA-44	-	-	-	WS	-	-	-	40?	-	-
1956-A263	2435504.50	1956 Feb 1	Corporal	-	1641	Corporal TA-47	-	-	-	WS	-	-	-	40?	-	-
1956-A264	2435504.50	1956 Feb 1	Corporal	-	1678	Corporal TA-46	-	-	-	WS	-	-	-	40?	-	-
1956-A265	2435504.50	1956 Feb 1	Corporal	-	1347	Corporal Chem	-	-	-	WS	-	-	-	40?	-	-
1956-A266	2435506.50	1956 Feb 3	Corporal	-	1632	Corporal TA-61	-	-	-	WS	-	-	-	40?	-	-
1956-A267	2435509.50	1956 Feb 6	Corporal	-	CD-5	Corporal Chem	-	-	-	WS	-	-	-	40?	-	-
1956-A268	2435513.50	1956 Feb 10	Corporal	-	1609M	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A269	2435517.50	1956 Feb 14	Corporal	-	1711	Corporal TA-48	-	-	-	WS	-	-	-	40?	-	-
1956-A270	2435524.50	1956 Feb 21	Corporal	-	1714	Corporal TA-49	-	-	-	WS	-	-	-	40?	-	-
1956-A271	2435533.50	1956 Mar 1	Corporal	-	1713	Corporal TA-50	-	-	-	WS	-	-	-	40?	-	-
1956-A272	2435533.50	1956 Mar 1	Corporal	-	1670	Corporal U	-	-	-	WS	-	-	-	40?	-	-
1956-A273	2435533.50	1956 Mar 1	Corporal	-	1707	Corporal TA-51	-	-	-	WS	-	-	-	40?	-	-
1956-A274	2435534.50	1956 Mar 2	Corporal	-	1671	Corporal U-12	-	-	-	WS	-	-	-	40?	-	-
1956-A275	2435534.50	1956 Mar 2	Corporal	-	1639	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A276	2435534.50	1956 Mar 2	Corporal	-	1638	Corporal TA-52	-	-	-	WS	-	-	-	40?	-	-
1956-A277	2435545.50	1956 Mar 13	Corporal	-	1413	Corporal C	-	-	-	WS	-	-	-	40?	-	-
1956-A278	2435545.50	1956 Mar 13	Corporal	-	1635	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A279	2435553.50	1956 Mar 21	Corporal	-	1673	Corporal U-15	-	-	-	WS	-	-	-	40?	-	-
1956-A280	2435554.50	1956 Mar 22	Corporal	-	1686	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A281	2435554.50	1956 Mar 22	Corporal	-	1688	Corporal TA-53	-	-	-	WS	-	-	-	40?	-	-
1956-A282	2435555.50	1956 Mar 23	Corporal	-	1695	Corporal TA-54	-	-	-	WS	-	-	-	40?	-	-
1956-A283	2435555.50	1956 Mar 23	Corporal	-	1674	Corporal U-16	-	-	-	WS	-	-	-	40?	-	-
1956-A284	2435568.50	1956 Apr 5	Corporal	-	1640	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A285	2435573.50	1956 Apr 10	Corporal	-	1461	Corporal Chem	-	-	-	WS	-	-	-	40?	-	-
1956-A286	2435575.50	1956 Apr 12	Corporal	-	1687	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A287	2435587.50	1956 Apr 24	Corporal	-	1684	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A288	2435596.50	1956 May 3	Corporal	-	1685	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A289	2435597.50	1956 May 4	Corporal	-	1795	Corporal TA-55	-	-	-	WS	-	-	-	40?	-	-
1956-A290	2435608.50	1956 May 15	Corporal	-	1805	Corporal TA-56	-	-	-	WS	-	-	-	40?	-	-
1956-A291	2435609.50	1956 May 16	Corporal	-	1675	Corporal II U-17	-	-	-	WS	-	-	-	40?	-	-
1956-A292	2435609.50	1956 May 16	Corporal	-	1801	Corporal TA-57	-	-	-	WS	-	-	-	40?	-	-
1956-A293	2435610.50	1956 May 17	Corporal	-	1807	Corporal TA-58	-	-	-	WS	-	-	-	40?	-	-
1956-A294	2435611.50	1956 May 18	Corporal	-	1827	Corporal II U-18	-	-	-	WS	-	-	-	40?	-	-
1956-A295	2435615.50	1956 May 22	Corporal	-	1818	Corporal EU AEO-24	-	-	-	WS	-	-	-	40?	-	-
1956-A296	2435616.50	1956 May 23	Corporal	-	1823	Corporal TA-59	-	-	-	WS	-	-	-	40?	-	-
1956-A297	2435616.50	1956 May 23	Corporal	-	1824	Corporal TA-62	-	-	-	WS	-	-	-	40?	-	-
1956-A298	2435631.50	1956 Jun 7	Corporal	-	1822	Corporal TA-64	-	-	-	WS	-	-	-	40?	-	-
1956-A299	2435631.50	1956 Jun 7	Corporal	-	1821	Corporal TA-63	-	-	-	WS	-	-	-	40?	-	-
1956-A300	2435637.50	1956 Jun 13	Corporal	-	1820	Corporal EU AEO-26	-	-	-	WS	-	-	-	40?	-	-
1956-A301	2435637.50	1956 Jun 13	Corporal	-	1373	Corporal Chem 8	-	-	-	WS	-	-	-	40?	-	-
1956-A302	2435639.50	1956 Jun 15	Corporal	-	1348	Corporal Chem 7	-	-	-	WS	-	-	-	40?	-	-
1956-A303	2435640.50	1956 Jun 16	Corporal	-	1781	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A304	2435645.50	1956 Jun 21	Corporal	-	1686	Corporal TA-66	-	-	-	WS	-	-	-	40?	-	-
1956-A305	2435647.50	1956 Jun 23	Corporal	-	1712	Corporal TA-67	-	-	-	WS	-	-	-	40?	-	-
1956-A306	2435654.50	1956 Jun 30	Corporal	-	1829	Corporal II U-19	-	-	-	WS	-	-	-	40?	-	-
1956-A307	2435660.50	1956 Jul 6	Corporal	-	1780	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A308	2435660.50	1956 Jul 6	Corporal	-	1350	Corporal TA-68	-	-	-	WS	-	-	-	40?	-	-
1956-A309	2435666.50	1956 Jul 12	Corporal	-	1700	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A310	2435666.50	1956 Jul 12	Corporal	-	1698	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A311	2435667.50	1956 Jul 13	Corporal	-	1798	Corporal II U-20	-	-	-	WS	-	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A312	2435667.50	1956 Jul 13	Corporal	-	1828	Corporal II U-21	-	-	-	WS	-	-	-	40?	-	-
1956-A313	2435668.50	1956 Jul 14	Corporal	-	1794	Corporal II U-23	-	-	-	WS	-	-	-	40?	-	-
1956-A314	2435670.50	1956 Jul 16	Corporal	-	1696	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A315	2435678.50	1956 Jul 24	Corporal	-	1817	Corporal EU AEB-25	-	-	-	WS	-	-	-	40?	-	-
1956-A316	2435705.50	1956 Aug 20	Corporal	-	1691	Corporal TA-69	-	-	-	WS	-	-	-	40?	-	-
1956-A317	2435706.50	1956 Aug 21	Corporal	-	1793	Corporal TA-72	-	-	-	WS	-	-	-	40?	-	-
1956-A318	2435706.50	1956 Aug 21	Corporal	-	1694	Corporal TA-70	-	-	-	WS	-	-	-	40?	-	-
1956-A319	2435708.50	1956 Aug 23	Corporal	-	1792	Corporal TA-73	-	-	-	WS	-	-	-	40?	-	-
1956-A320	2435709.50	1956 Aug 24	Corporal	-	1706	Corporal TA-71	-	-	-	WS	-	-	-	40?	-	-
1956-A321	2435720.50	1956 Sep 4	Corporal	-	1826	Corporal TA-76	-	-	-	WS	-	-	-	40?	-	-
1956-A322	2435721.50	1956 Sep 5	Corporal	-	1819	Corporal EU	-	-	-	WS	-	-	-	40?	-	-
1956-A323	2435723.50	1956 Sep 7	Corporal	-	1791	Corporal TA-74	-	-	-	WS	-	-	-	40?	-	-
1956-A324	2435726.50	1956 Sep 10	Corporal	-	1837	Corporal EU AES-29-A	-	-	-	WS	-	-	-	40?	-	-
1956-A325	2435727.50	1956 Sep 11	Corporal	-	1910	Corporal T UK-2	-	-	-	WS	-	-	-	40?	-	-
1956-A326	2435727.50	1956 Sep 11	Corporal	-	1825	Corporal TA-75	-	-	-	WS	-	-	-	40?	-	-
1956-A327	2435734.50	1956 Sep 18	Corporal	-	1906	Corporal T UK-1	-	-	-	WS	-	-	-	40?	-	-
1956-A328	2435758.50	1956 Oct 12	Corporal	-	1730	Corporal EU AES-30	-	-	-	WS	-	-	-	40?	-	-
1956-A329	2435769.50	1956 Oct 23	Corporal	-	1363	Corporal Chem 9	-	-	-	WS	-	-	-	40?	-	-
1956-A330	2435769.50	1956 Oct 23	Corporal	-	1364	Corporal Chem 10	-	-	-	WS	-	-	-	40?	-	-
1956-A331	2435770.50	1956 Oct 24	Corporal	-	1895	Corporal TA-77	-	-	-	WS	-	-	-	40?	-	-
1956-A332	2435771.50	1956 Oct 25	Corporal	-	1893	Corporal TA-78	-	-	-	WS	-	-	-	40?	-	-
1956-A333	2435772.50	1956 Oct 26	Corporal	-	1799	Corporal TA-79	-	-	-	WS	-	-	-	40?	-	-
1956-A334	2435792.50	1956 Nov 15	Corporal	-	1894	Corporal TA-80	-	-	-	WS	-	-	-	40?	-	-
1956-A335	2435793.50	1956 Nov 16	Corporal	-	1962	Corporal TA-81	-	-	-	WS	-	-	-	40?	-	-
1956-A336	2435797.50	1956 Nov 20	Corporal	-	1836	Corporal EU AFS-31	-	-	-	WS	-	-	-	40?	-	-
1956-A337	2435804.50	1956 Nov 27	Corporal	-	1960	Corporal TA-83	-	-	-	WS	-	-	-	40?	-	-
1956-A338	2435806.50	1956 Nov 29	Corporal	-	1961	Corporal TA-84	-	-	-	WS	-	-	-	40?	-	-
1956-A339	2435807.50	1956 Nov 30	Corporal	-	1957	Corporal TA-82	-	-	-	WS	-	-	-	40?	-	-
1956-A340	2435811.50	1956 Dec 4	Corporal	-	1835	Corporal AEB-32	-	-	-	WS	-	-	-	40?	-	-
1957-A179	2435911.50	1957 Mar 14	Corporal	-	-	-	-	(100th)	-	FTB	-	-	-	40?	-	-
1957-A180	2435911.50	1957 Mar 14	Corporal	-	-	-	-	-	-	FTB	-	-	-	40?	-	-
1957-A181	2436019.50	1957 Jul	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1957-A182	2436019.50	1957 Jul	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1957-A183	2436019.50	1957 Jul	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1957-A184	2436019.50	1957 Jul	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1957-A185	2436161.50	1957 Nov 19	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A234	2436240.50	1958 Feb 6	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A226	2436322.50	1958 Apr 29	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A227	2436384.50	1958 Jun 30	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A228	2436415.50	1958 Aug	Corporal	-	-	-	-	(200th)	-	WS	-	-	-	40?	-	-
1958-A229	2436461.50	1958 Sep 15	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A230	2436446.50	1958 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A231	2436446.50	1958 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A232	2436446.50	1958 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1958-A233	2436471.50	1958 Sep 25	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A17	2436599.50	1959 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A18	2436599.50	1959 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A19	2436599.50	1959 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A20	2436599.50	1959 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A37	2436627.50	1959 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A38	2436627.50	1959 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A39	2436627.50	1959 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A40	2436627.50	1959 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A52	2436658.50	1959 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A53	2436658.50	1959 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A54	2436658.50	1959 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A55	2436658.50	1959 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A70	2436688.50	1959 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A71	2436688.50	1959 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A72	2436688.50	1959 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A73	2436688.50	1959 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A86	2436719.50	1959 Jun	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1959-A87	2436719.50	1959 Jun	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1959-A88	2436719.50	1959 Jun	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1959-A89	2436719.50	1959 Jun	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1959-A90	2436719.50	1959 Jun	Corporal	-	-	-	-	-	-	FTB	ORO	-	-	40?	-	-
1959-A103	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A104	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A105	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A106	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A107	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A108	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A109	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A110	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A111	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A112	2436749.50	1959 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A123	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A124	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A125	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A126	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A127	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A128	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A129	2436780.50	1959 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A146	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A147	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A148	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A149	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A150	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A151	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A152	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A153	2436811.50	1959 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A198	2436902.50	1959 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1959-A199	2436902.50	1959 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A24	2436964.50	1960 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A25	2436964.50	1960 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A26	2436964.50	1960 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A27	2436964.50	1960 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A56	2436993.50	1960 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A57	2436993.50	1960 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A58	2436993.50	1960 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A59	2436993.50	1960 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A80	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A81	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A82	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A83	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A84	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A85	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A86	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A87	2437024.50	1960 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A107	2437054.50	1960 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A108	2437054.50	1960 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A109	2437054.50	1960 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A110	2437054.50	1960 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A383	2437081.12	1960 May 26 1446	Corporal	-	UK.24	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A384	2437082.10	1960 May 27 1421	Corporal	-	UK.23	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A131	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A132	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A133	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A134	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A135	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A136	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A137	2437085.50	1960 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A385	2437087.52	1960 Jun 2 0033	Corporal	-	UK.25	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A138	2437088.50	1960 Jun 3	Corporal	-	INH-2 Target	-	-	-	-	WS	-	-	-	40?	-	-
1960-A386	2437089.99	1960 Jun 4 1146	Corporal	-	UK.26	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A387	2437090.39	1960 Jun 4 2115	Corporal	-	UK.27	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A388	2437094.17	1960 Jun 8 1610	Corporal	-	UK.28	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A389	2437096.36	1960 Jun 10 2045	Corporal	-	UK.29	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A390	2437115.04	1960 Jun 29 1257	Corporal	-	UK.30	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A391	2437116.16	1960 Jun 30 1549	Corporal	-	UK.31	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A157	2437115.50	1960 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A158	2437115.50	1960 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A392	2437118.16	1960 Jul 2 1545	Corporal	-	UK.32	-	-	-	-	SUIST	-	-	-	40?	-	-
1960-A174	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A175	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A176	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A177	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A178	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A179	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A180	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A181	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A182	2437146.50	1960 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A211	2437177.50	1960 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A212	2437177.50	1960 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A213	2437177.50	1960 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A214	2437177.50	1960 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A233	2437207.50	1960 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A234	2437207.50	1960 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A235	2437207.50	1960 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A236	2437207.50	1960 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A276	2437268.50	1960 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A277	2437268.50	1960 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A278	2437268.50	1960 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1960-A279	2437268.50	1960 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A02	2437299.50	1961 Jan	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A36	2437330.50	1961 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A37	2437330.50	1961 Feb	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A54	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A55	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A56	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A57	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A58	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A59	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A60	2437358.50	1961 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A84	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A85	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A86	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A87	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A88	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A89	2437389.50	1961 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A114	2437419.50	1961 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A115	2437419.50	1961 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A116	2437419.50	1961 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A117	2437419.50	1961 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A118	2437419.50	1961 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A396	2437423.50	1961 May 4?	Corporal	-	UK	-	-	-	-	SUIST	-	-	-	40?	-	-
1961-A397	2437442.50	1961 May 23?	Corporal	-	UK	-	-	-	-	SUIST	-	-	-	40?	-	-
1961-A132	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A133	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A134	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A135	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A136	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A137	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A138	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A139	2437450.50	1961 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A159	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A160	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A161	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A162	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A163	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A164	2437480.50	1961 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A173	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A174	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A175	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A176	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A177	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A178	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A179	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A180	2437511.50	1961 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A395	2437322.50	1961 Jan 23	Corporal	-	-	Target	-	-	-	WS	-	-	-	40?	-	-
1961-A208	2437572.50	1961 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A209	2437572.50	1961 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A210	2437572.50	1961 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1961-A211	2437572.50	1961 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A24	2437723.50	1962 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A25	2437723.50	1962 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A26	2437723.50	1962 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A27	2437723.50	1962 Mar	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A43	2437754.50	1962 Apr	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A63	2437784.50	1962 May	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A88	2437815.50	1962 Jun	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A105	2437845.50	1962 Jul	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A119	2437876.50	1962 Aug	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A146	2437907.50	1962 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A147	2437907.50	1962 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A148	2437907.50	1962 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A149	2437907.50	1962 Sep	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A162	2437937.50	1962 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A163	2437937.50	1962 Oct	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A181	2437968.50	1962 Nov	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A182	2437968.50	1962 Nov	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A183	2437968.50	1962 Nov	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1962-A206	2437998.50	1962 Dec	Corporal	-	-	-	-	-	-	WS	-	-	-	40?	-	-
1965-A224	2439054.50	1965 Oct 21	Corporal	-	-	Anti-SLBM Target	-	-	-	SNI	-	-	-	40?	-	-
1965-A225	2439064.50	1965 Nov?	Corporal	-	-	Anti-SLBM Target	-	-	-	SNI	-	-	-	40?	-	-
1965-A226	2439064.50	1965 Nov?	Corporal	-	-	Anti-SLBM Target	-	-	-	SNI	-	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1947-A12	2432327.50	1947 May 22	Corporal E	-	1	0.000	ORD	MS	-	-	Test	WSMR-PAO	-	-
1947-A14	2432384.23	1947 Jul 17 1730	Corporal E	-	2	0.000	ORD	MF	U	-	Test	JPL-CBS1	WSMR-PAO	-
1947-A30	2432494.46	1947 Nov 4 2305	Corporal E	-	3	0.000	ORD	MS	-	-	Test	JPL-CBS3	WSMR-PAO	-
1949-A22	2433074.50	1949 Jun 7	Corporal E	-	4E	0.000	ORD	MF	U	-	Test	WSMR-PAO	-	-
1950-M06	2433473.50	1950 Jul 11	Corporal E	-	5E	0.000	ORDRSA	MS	-	-	Test	WSMR-PAO	-	-
1950-M12	2433587.50	1950 Nov 2	Corporal E	-	6E	0.000	ORDRSA	MS	-	-	Test	WSMR-PAO	-	-
1951-M01	2433662.50	1951 Jan 16	Corporal E	-	7R	0.000	ORDRSA	MS	-	-	Test	WSMR-PAO	-	-
1951-M02	2433727.50	1951 Mar 22	Corporal E	-	8R	0.000	ORDRSA	MS	-	-	Test	WSMR-PAO	-	-
1951-M06	2433839.50	1951 Jul 12	Corporal E	-	9R	0.000	ORDRSA	MS	-	-	Test	WSMR-PAO	-	-
1951-A70	2433929.50	1951 Oct 10	Corporal E	-	11-10	0.000	ORDRSA	MF	U	-	Test	WSMR-PAO	-	-
1951-A90	2433986.50	1951 Dec 06	Corporal	-	12R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A09	2434035.50	1952 Jan 24	Corporal	-	14-12R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A16	2434040.50	1952 Jan 29	Corporal	-	15-13 R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A43	2434083.50	1952 Mar 12	Corporal	-	17-14R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A46	2434088.50	1952 Mar 17	Corporal	-	18-15	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A50	2434092.50	1952 Mar 21	Corporal	-	19-16	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A68	2434126.50	1952 Apr 24	Corporal	-	21-17	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A71	2434131.50	1952 Apr 29	Corporal	-	22-18	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A74	2434144.50	1952 May 12	Corporal	-	23-19	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A76	2434148.50	1952 May 16	Corporal	-	24-20RSC	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A88	2434155.50	1952 May 23	Corporal	-	21R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A100	2434182.50	1952 Jun 19	Corporal	-	22R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A287	2434187.50	1952 Jun 24	Corporal	-	23R	0.000	ORDRSA	MS	-	-	Test	CorporalHist	-	-
1952-A103	2434190.50	1952 Jun 27	Corporal	-	24R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A106	2434195.50	1952 Jul 02	Corporal	-	99R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A111	2434204.50	1952 Jul 11	Corporal	-	25R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A113	2434210.50	1952 Jul 17	Corporal	-	26R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A119	2434221.50	1952 Jul 28	Corporal	-	27R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A129	2434231.50	1952 Aug 07	Corporal	-	28R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A134	2434236.50	1952 Aug 12	Corporal	-	29R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A144	2434251.50	1952 Aug 27	Corporal	-	30R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A155	2434267.50	1952 Sep 12	Corporal	-	31R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A164	2434280.50	1952 Sep 25	Corporal	-	32R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A170	2434287.50	1952 Oct 02	Corporal	-	33R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A216	2434326.50	1952 Nov 10	Corporal	-	34R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A218	2434329.50	1952 Nov 13	Corporal	-	35R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A224	2434333.50	1952 Nov 17	Corporal	-	36R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A233	2434336.50	1952 Nov 20	Corporal	-	37R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A250	2434349.50	1952 Dec 03	Corporal	-	38R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A262	2434355.50	1952 Dec 09	Corporal	-	39R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1952-A270	2434362.50	1952 Dec 16	Corporal	-	40R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A12	2434390.50	1953 Jan 13	Corporal	-	41R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A23	2434399.50	1953 Jan 22	Corporal	-	42R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A40	2434407.50	1953 Jan 30	Corporal	-	1E/1247	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A43	2434413.50	1953 Feb 05	Corporal	-	43R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A70	2434428.50	1953 Feb 20	Corporal	-	52R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A80	2434434.50	1953 Feb 26	Corporal	-	51E/1251	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A106	2434448.50	1953 Mar 12	Corporal	-	57RS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A139	2434459.50	1953 Mar 23	Corporal	-	3EBN/1261	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A156	2434469.50	1953 Apr 02	Corporal	-	1260RS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A182	2434488.50	1953 Apr 21	Corporal	-	1259RS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A188	2434494.50	1953 Apr 27	Corporal	-	1262 RS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A217	2434511.50	1953 May 14	Corporal	-	4EBN	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A222	2434518.50	1953 May 21	Corporal	-	1264R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A223	2434519.50	1953 May 22	Corporal	-	1210R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A229	2434526.50	1953 May 29	Corporal	-	1266R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A235	2434536.50	1953 Jun 08	Corporal	-	5EBN	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A249	2434547.50	1953 Jun 19	Corporal	-	1268R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A279	2434560.50	1953 Jul 02	Corporal	-	1277R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A282	2434565.50	1953 Jul 07	Corporal	-	1267E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A294	2434574.50	1953 Jul 16	Corporal	-	1278R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A310	2434593.50	1953 Aug 04	Corporal	-	1269E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A314	2434595.50	1953 Aug 06	Corporal	-	1300R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A315	2434595.50	1953 Aug 06	Corporal	-	1301R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A323	2434602.50	1953 Aug 13	Corporal	-	1297E	0.000	ORDRSA	MF	U	-	Test	CorporalHist	wsmr-history.org	-
1953-A356	2434634.50	1953 Sep 14	Corporal	-	1352R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A364	2434643.50	1953 Sep 23	Corporal	-	1253R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A368	2434644.50	1953 Sep 24	Corporal	-	1352R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A375	2434649.50	1953 Sep 29	Corporal	-	1302R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A377	2434651.50	1953 Oct 01	Corporal	-	1299E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A392	2434658.50	1953 Oct 08	Corporal	-	1355R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A415	2434663.50	1953 Oct 13	Corporal	-	1351E	0.000	ORDRSA	MU	-	-	Test	CorporalHist	wsmr-history.org	-
1953-A400	2434665.50	1953 Oct 15	Corporal	-	1357R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A419	2434677.50	1953 Oct 27	Corporal	-	1305E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A432	2434685.50	1953 Nov 04	Corporal	-	1303R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A434	2434687.50	1953 Nov 06	Corporal	-	1358R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A439	2434694.50	1953 Nov 13	Corporal	-	1359R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A447	2434700.50	1953 Nov 19	Corporal	-	1391R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A468	2434714.50	1953 Dec 03	Corporal	-	1392R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A474	2434721.50	1953 Dec 10	Corporal	-	1393R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A477	2434726.50	1953 Dec 15	Corporal	-	12EN	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1953-A487	2434728.50	1953 Dec 17	Corporal	-	1356R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A13	2434754.50	1954 Jan 12	Corporal	-	13EN	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A17	2434757.50	1954 Jan 15	Corporal	-	1394R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A28	2434763.50	1954 Jan 21	Corporal	-	1395R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A31	2434764.50	1954 Jan 22	Corporal	-	1312E	0.000	ORDRSA	MF	U	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A34	2434770.50	1954 Jan 28	Corporal	-	1360R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A52	2434784.50	1954 Feb 11	Corporal	-	1284R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A64	2434791.50	1954 Feb 18	Corporal	-	1294RD	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A107	2434810.50	1954 Mar 09	Corporal	-	1293R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A112	2434819.50	1954 Mar 18	Corporal	-	1246T-1	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A123	2434825.50	1954 Mar 24	Corporal	-	2T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A125	2434827.50	1954 Mar 26	Corporal	-	3T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A169	2434846.50	1954 Apr 14	Corporal	-	1401RJ	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A173	2434847.50	1954 Apr 15	Corporal	-	1296RJ-S	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A197	2434859.50	1954 Apr 27	Corporal	-	4T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A227	2434865.50	1954 May 03	Corporal	-	5T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A230	2434866.50	1954 May 04	Corporal	-	1326E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A251	2434873.50	1954 May 11	Corporal	-	1295R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A281	2434880.50	1954 May 18	Corporal	-	1403R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A296	2434887.50	1954 May 25	Corporal	-	1314E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A301	2434889.50	1954 May 27	Corporal	-	1404R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A329	2434901.50	1954 Jun 08	Corporal	-	1316E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A330	2434901.50	1954 Jun 08	Corporal	-	1402R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A357	2434910.50	1954 Jun 17	Corporal	-	1405RS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A364	2434915.50	1954 Jun 22	Corporal	-	6T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A381	2434922.50	1954 Jun 29	Corporal	-	T-7	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A382	2434922.50	1954 Jun 29	Corporal	-	1310	0.000	BRL	MU	-	-	Test	wsmr-history.org	-	-
1954-A393	2434925.50	1954 Jul 02	Corporal	-	T-8	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A408	2434936.50	1954 Jul 13	Corporal	-	T-9	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A429	2434945.50	1954 Jul 22	Corporal	-	1328E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A443	2434950.50	1954 Jul 27	Corporal	-	1276R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A457	2434952.50	1954 Jul 29	Corporal	-	1406R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A510	2434994.50	1954 Sep 09	Corporal	-	1407R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A511	2434995.50	1954 Sep 10	Corporal	-	1445E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A529	2435006.50	1954 Sep 21	Corporal	-	1408RO	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A537	2435008.50	1954 Sep 23	Corporal	-	T 10	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A538	2435008.50	1954 Sep 23	Corporal	-	T 11	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A545	2435013.50	1954 Sep 28	Corporal	-	T 12	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A546	2435013.50	1954 Sep 28	Corporal	-	1452EU	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A547	2435014.50	1954 Sep 29	Corporal	-	T-14	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A548	2435014.50	1954 Sep 29	Corporal	-	T-13	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A555	2435015.50	1954 Sep 30	Corporal	-	T-15	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A557	2435019.50	1954 Oct 04	Corporal	-	1409RO	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A562	2435023.50	1954 Oct 08	Corporal	-	1410RJ	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A568	2435028.50	1954 Oct 13	Corporal	-	1554R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A588	2435037.50	1954 Oct 22	Corporal	-	T-16	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A597	2435043.50	1954 Oct 28	Corporal	-	1552RO	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A600	2435047.50	1954 Nov 01	Corporal	-	T-17	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A642	2435064.50	1954 Nov 18	Corporal	-	1551R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A693	2435089.50	1954 Dec 13	Corporal	-	1554R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A702	2435091.50	1954 Dec 15	Corporal	-	U-1 1462	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1954-A709	2435093.50	1954 Dec 17	Corporal	-	1555R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A11	2435118.50	1955 Jan 11	Corporal	-	1556R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A20	2435125.50	1955 Jan 18	Corporal	-	1464U	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A21	2435125.50	1955 Jan 18	Corporal	-	1467R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A29	2435126.50	1955 Jan 19	Corporal	-	1466U	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A50	2435134.50	1955 Jan 27	Corporal	-	1560R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A111	2435155.50	1955 Feb 17	Corporal	-	1564R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A185	2435181.50	1955 Mar 15	Corporal	-	1565R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A216	2435191.50	1955 Mar 25	Corporal	-	1561E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A231	2435195.50	1955 Mar 29	Corporal	-	1568R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A245	2435202.50	1955 Apr 05	Corporal	-	1567E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A260	2435204.50	1955 Apr 07	Corporal	-	1574R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A285	2435211.50	1955 Apr 14	Corporal	-	1570E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A582	2435225.50	1955 Apr 28	Corporal	-	1575R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A364	2435244.50	1955 May 17	Corporal	-	1411R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A373	2435250.50	1955 May 23	Corporal	-	1477R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A425	2435264.50	1955 Jun 06	Corporal	-	1473R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A442	2435272.50	1955 Jun 14	Corporal	-	1569R	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A583	2435279.50	1955 Jun 21	Corporal	-	1602T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A584	2435282.50	1955 Jun 24	Corporal	-	1603T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A585	2435286.50	1955 Jun 28	Corporal	-	1601T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A586	2435289.50	1955 Jul 1	Corporal	-	1604T	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A587	2435299.50	1955 Jul 11	Corporal	-	1571E	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A588	2435306.50	1955 Jul 18	Corporal	-	T1331	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A589	2435307.50	1955 Jul 19	Corporal	-	T1337	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A590	2435307.50	1955 Jul 19	Corporal	-	1566	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A591	2435314.50	1955 Jul 26	Corporal	-	JS1584	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A592	2435314.50	1955 Jul 26	Corporal	-	1465	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A593	2435316.50	1955 Jul 28	Corporal	-	1340	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A594	2435316.50	1955 Jul 28	Corporal	-	1579	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A595	2435323.50	1955 Aug 4	Corporal	-	1585	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A596	2435336.50	1955 Aug 17	Corporal	-	1589	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A597	2435338.50	1955 Aug 19	Corporal	-	1628	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A598	2435342.50	1955 Aug 23	Corporal	-	1607-JS	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A599	2435345.50	1955 Aug 26	Corporal	-	1388	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A600	2435345.50	1955 Aug 26	Corporal	-	1389	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A601	2435349.50	1955 Aug 30	Corporal	-	1618	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A602	2435351.50	1955 Sep 1	Corporal	-	1614	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A603	2435362.50	1955 Sep 12	Corporal	-	1608	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A604	2435370.50	1955 Sep 20	Corporal	-	1654	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A605	2435370.50	1955 Sep 20	Corporal	-	1621	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A606	2435372.50	1955 Sep 22	Corporal	-	1660	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A607	2435373.50	1955 Sep 23	Corporal	-	1659	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A608	2435379.50	1955 Sep 29	Corporal	-	1622	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A609	2435380.50	1955 Sep 30	Corporal	-	1657	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A610	2435387.50	1955 Oct 7	Corporal	-	1616	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A611	2435391.50	1955 Oct 11	Corporal	-	1588	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A612	2435392.50	1955 Oct 12	Corporal	-	1617	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A613	2435394.50	1955 Oct 14	Corporal	-	1662	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A614	2435399.50	1955 Oct 19	Corporal	-	1652	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A615	2435400.50	1955 Oct 20	Corporal	-	1578	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A616	2435404.50	1955 Oct 24	Corporal	-	1630	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A617	2435404.50	1955 Oct 24	Corporal	-	1658	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A618	2435406.50	1955 Oct 26	Corporal	-	1631	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A619	2435411.50	1955 Oct 31	Corporal	-	1626	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A620	2435413.50	1955 Nov 2	Corporal	-	1623	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A621	2435419.50	1955 Nov 8	Corporal	-	1665	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A622	2435421.50	1955 Nov 10	Corporal	-	1664	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A623	2435428.50	1955 Nov 17	Corporal	-	1414	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A624	2435429.50	1955 Nov 18	Corporal	-	1459	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A625	2435432.50	1955 Nov 21	Corporal	-	1651	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A626	2435432.50	1955 Nov 21	Corporal	-	1667	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A627	2435433.50	1955 Nov 22	Corporal	-	1595	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A628	2435442.50	1955 Dec 1	Corporal	-	1636	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A629	2435443.50	1955 Dec 2	Corporal	-	1677	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A630	2435443.50	1955 Dec 2	Corporal	-	1637	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A631	2435447.50	1955 Dec 6	Corporal	-	1412	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A632	2435448.50	1955 Dec 7	Corporal	-	1656	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A633	2435449.50	1955 Dec 8	Corporal	-	1668	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A634	2435449.50	1955 Dec 8	Corporal	-	1627	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A635	2435454.50	1955 Dec 13	Corporal	-	1605	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1955-A636	2435455.50	1955 Dec 14	Corporal	-	1596	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A258	2435485.50	1956 Jan 13	Corporal	-	1669	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A259	2435489.50	1956 Jan 17	Corporal	-	1676	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A260	2435491.50	1956 Jan 19	Corporal	-	1672	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A261	2435492.50	1956 Jan 20	Corporal	-	1597	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A262	2435492.50	1956 Jan 20	Corporal	-	1679	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A263	2435504.50	1956 Feb 1	Corporal	-	1641	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A264	2435504.50	1956 Feb 1	Corporal	-	1678	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A265	2435504.50	1956 Feb 1	Corporal	-	1347	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A266	2435506.50	1956 Feb 3	Corporal	-	1632	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A267	2435509.50	1956 Feb 6	Corporal	-	CD-5	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A268	2435513.50	1956 Feb 10	Corporal	-	1609M	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A269	2435517.50	1956 Feb 14	Corporal	-	1711	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A270	2435524.50	1956 Feb 21	Corporal	-	1714	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A271	2435533.50	1956 Mar 1	Corporal	-	1713	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A272	2435533.50	1956 Mar 1	Corporal	-	1670	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A273	2435533.50	1956 Mar 1	Corporal	-	1707	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A274	2435534.50	1956 Mar 2	Corporal	-	1671	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A275	2435534.50	1956 Mar 2	Corporal	-	1639	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A276	2435534.50	1956 Mar 2	Corporal	-	1638	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A277	2435545.50	1956 Mar 13	Corporal	-	1413	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A278	2435545.50	1956 Mar 13	Corporal	-	1635	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A279	2435553.50	1956 Mar 21	Corporal	-	1673	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A280	2435554.50	1956 Mar 22	Corporal	-	1686	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A281	2435554.50	1956 Mar 22	Corporal	-	1688	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A282	2435555.50	1956 Mar 23	Corporal	-	1695	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A283	2435555.50	1956 Mar 23	Corporal	-	1674	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A284	2435568.50	1956 Apr 5	Corporal	-	1640	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A285	2435573.50	1956 Apr 10	Corporal	-	1461	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A286	2435575.50	1956 Apr 12	Corporal	-	1687	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A287	2435587.50	1956 Apr 24	Corporal	-	1684	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A288	2435596.50	1956 May 3	Corporal	-	1685	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A289	2435597.50	1956 May 4	Corporal	-	1795	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A290	2435608.50	1956 May 15	Corporal	-	1805	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A291	2435609.50	1956 May 16	Corporal	-	1675	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A292	2435609.50	1956 May 16	Corporal	-	1801	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A293	2435610.50	1956 May 17	Corporal	-	1807	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A294	2435611.50	1956 May 18	Corporal	-	1827	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A295	2435615.50	1956 May 22	Corporal	-	1818	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A296	2435616.50	1956 May 23	Corporal	-	1823	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A297	2435616.50	1956 May 23	Corporal	-	1824	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A298	2435631.50	1956 Jun 7	Corporal	-	1822	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A299	2435631.50	1956 Jun 7	Corporal	-	1821	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A300	2435637.50	1956 Jun 13	Corporal	-	1820	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A301	2435637.50	1956 Jun 13	Corporal	-	1373	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A302	2435639.50	1956 Jun 15	Corporal	-	1348	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A303	2435640.50	1956 Jun 16	Corporal	-	1781	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A304	2435645.50	1956 Jun 21	Corporal	-	1686	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A305	2435647.50	1956 Jun 23	Corporal	-	1712	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A306	2435654.50	1956 Jun 30	Corporal	-	1829	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A307	2435660.50	1956 Jul 6	Corporal	-	1780	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A308	2435660.50	1956 Jul 6	Corporal	-	1350	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A309	2435666.50	1956 Jul 12	Corporal	-	1700	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A310	2435666.50	1956 Jul 12	Corporal	-	1698	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A311	2435667.50	1956 Jul 13	Corporal	-	1798	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A312	2435667.50	1956 Jul 13	Corporal	-	1828	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A313	2435668.50	1956 Jul 14	Corporal	-	1794	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A314	2435670.50	1956 Jul 16	Corporal	-	1696	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A315	2435678.50	1956 Jul 24	Corporal	-	1817	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A316	2435705.50	1956 Aug 20	Corporal	-	1691	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A317	2435706.50	1956 Aug 21	Corporal	-	1793	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A318	2435706.50	1956 Aug 21	Corporal	-	1694	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A319	2435708.50	1956 Aug 23	Corporal	-	1792	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A320	2435709.50	1956 Aug 24	Corporal	-	1706	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A321	2435720.50	1956 Sep 4	Corporal	-	1826	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A322	2435721.50	1956 Sep 5	Corporal	-	1819	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A323	2435723.50	1956 Sep 7	Corporal	-	1791	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A324	2435726.50	1956 Sep 10	Corporal	-	1837	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A325	2435727.50	1956 Sep 11	Corporal	-	1910	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A326	2435727.50	1956 Sep 11	Corporal	-	1825	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A327	2435734.50	1956 Sep 18	Corporal	-	1906	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A328	2435758.50	1956 Oct 12	Corporal	-	1730	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A329	2435769.50	1956 Oct 23	Corporal	-	1363	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A330	2435769.50	1956 Oct 23	Corporal	-	1364	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A331	2435770.50	1956 Oct 24	Corporal	-	1895	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A332	2435771.50	1956 Oct 25	Corporal	-	1893	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A333	2435772.50	1956 Oct 26	Corporal	-	1799	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A334	2435792.50	1956 Nov 15	Corporal	-	1894	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A335	2435793.50	1956 Nov 16	Corporal	-	1962	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A336	2435797.50	1956 Nov 20	Corporal	-	1836	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A337	2435804.50	1956 Nov 27	Corporal	-	1960	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A338	2435806.50	1956 Nov 29	Corporal	-	1961	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A339	2435807.50	1956 Nov 30	Corporal	-	1957	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-A340	2435811.50	1956 Dec 4	Corporal	-	1835	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1957-A179	2435911.50	1957 Mar 14	Corporal	-	-	0.000	ORDRSA	MS	-	-	Test	Ulrich/Wire	-	-
1957-A180	2435911.50	1957 Mar 14	Corporal	-	-	0.000	ORDRSA	MS	-	-	Test	Ulrich/Wire	-	-
1957-A181	2436019.50	1957 Jul	Corporal	-	-	0.000	BWEHR	MS	-	-	Test	Ulrich/Wire	-	-
1957-A182	2436019.50	1957 Jul	Corporal	-	-	0.000	BWEHR	MS	-	-	Test	Ulrich/Wire	-	-
1957-A183	2436019.50	1957 Jul	Corporal	-	-	0.000	BWEHR	MS	-	-	Test	Ulrich/Wire	-	-
1957-A184	2436019.50	1957 Jul	Corporal	-	-	0.000	BWEHR	MS	-	-	Test	Ulrich/Wire	-	-
1957-A185	2436161.50	1957 Nov 19	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	Ulrich	-	-
1958-A234	2436240.50	1958 Feb 6	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	Ulrich	-	-
1958-A226	2436322.50	1958 Apr 29	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	Ulrich	-	-
1958-A227	2436384.50	1958 Jun 30	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	Ulrich	-	-
1958-A228	2436415.50	1958 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	Ulrich	-	-
1958-A229	2436461.50	1958 Sep 15	Corporal	-	-	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1958-A230	2436446.50	1958 Sep	Corporal	-	-	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1958-A231	2436446.50	1958 Sep	Corporal	-	-	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1958-A232	2436446.50	1958 Sep	Corporal	-	-	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1958-A233	2436471.50	1958 Sep 25	Corporal	-	-	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1959-A17	2436599.50	1959 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A18	2436599.50	1959 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A19	2436599.50	1959 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A20	2436599.50	1959 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A37	2436627.50	1959 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A38	2436627.50	1959 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A39	2436627.50	1959 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A40	2436627.50	1959 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A52	2436658.50	1959 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A53	2436658.50	1959 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A54	2436658.50	1959 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A55	2436658.50	1959 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A70	2436688.50	1959 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A71	2436688.50	1959 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A72	2436688.50	1959 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A73	2436688.50	1959 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A86	2436719.50	1959 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A87	2436719.50	1959 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A88	2436719.50	1959 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A89	2436719.50	1959 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A90	2436719.50	1959 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A103	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A104	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A105	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A106	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A107	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A108	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A109	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A110	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A111	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A112	2436749.50	1959 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A123	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A124	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A125	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A126	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A127	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A128	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A129	2436780.50	1959 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A146	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A147	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A148	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A149	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A150	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A151	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A152	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A153	2436811.50	1959 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A198	2436902.50	1959 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1959-A199	2436902.50	1959 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A24	2436964.50	1960 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A25	2436964.50	1960 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A26	2436964.50	1960 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A27	2436964.50	1960 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A56	2436993.50	1960 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A57	2436993.50	1960 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A58	2436993.50	1960 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A59	2436993.50	1960 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A80	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A81	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A82	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A83	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A84	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A85	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A86	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A87	2437024.50	1960 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A107	2437054.50	1960 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A108	2437054.50	1960 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A109	2437054.50	1960 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A110	2437054.50	1960 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A383	2437081.12	1960 May 26 1446	Corporal	-	UK.24	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A384	2437082.10	1960 May 27 1421	Corporal	-	UK.23	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A131	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A132	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A133	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A134	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A135	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A136	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A137	2437085.50	1960 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A385	2437087.52	1960 Jun 2 0033	Corporal	-	UK.25	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A138	2437088.50	1960 Jun 3	Corporal	-	INH-2 Target	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A386	2437089.99	1960 Jun 4 1146	Corporal	-	UK.26	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A387	2437090.39	1960 Jun 4 2115	Corporal	-	UK.27	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A388	2437094.17	1960 Jun 8 1610	Corporal	-	UK.28	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A389	2437096.36	1960 Jun 10 2045	Corporal	-	UK.29	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A390	2437115.04	1960 Jun 29 1257	Corporal	-	UK.30	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A391	2437116.16	1960 Jun 30 1549	Corporal	-	UK.31	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A157	2437115.50	1960 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A158	2437115.50	1960 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A392	2437118.16	1960 Jul 2 1545	Corporal	-	UK.32	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1960-A174	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A175	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A176	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A177	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A178	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A179	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A180	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A181	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A182	2437146.50	1960 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A211	2437177.50	1960 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A212	2437177.50	1960 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A213	2437177.50	1960 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A214	2437177.50	1960 Sep	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A233	2437207.50	1960 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A234	2437207.50	1960 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A235	2437207.50	1960 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A236	2437207.50	1960 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A276	2437268.50	1960 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A277	2437268.50	1960 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A278	2437268.50	1960 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1960-A279	2437268.50	1960 Dec	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A02	2437299.50	1961 Jan	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A36	2437330.50	1961 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A37	2437330.50	1961 Feb	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A54	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A55	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A56	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A57	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A58	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A59	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A60	2437358.50	1961 Mar	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A84	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A85	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A86	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A87	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A88	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A89	2437389.50	1961 Apr	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A114	2437419.50	1961 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A115	2437419.50	1961 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A116	2437419.50	1961 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A117	2437419.50	1961 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A118	2437419.50	1961 May	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A396	2437423.50	1961 May 4?	Corporal	-	UK	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1961-A397	2437442.50	1961 May 23?	Corporal	-	UK	0.000	UKRA	MS	-	-	Test	Ulrich	-	-
1961-A132	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A133	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A134	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A135	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A136	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A137	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A138	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A139	2437450.50	1961 Jun	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A159	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A160	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A161	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A162	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A163	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A164	2437480.50	1961 Jul	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A173	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A174	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A175	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A176	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A177	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A178	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A179	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A180	2437511.50	1961 Aug	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A395	2437322.50	1961 Jan 23	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A208	2437572.50	1961 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A209	2437572.50	1961 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A210	2437572.50	1961 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1961-A211	2437572.50	1961 Oct	Corporal	-	-	0.000	ORDRSA	MU	-	-	Test	WSMR	-	-
1962-A24	2437723.50	1962 Mar	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A25	2437723.50	1962 Mar	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A26	2437723.50	1962 Mar	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A27	2437723.50	1962 Mar	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A43	2437754.50	1962 Apr	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A63	2437784.50	1962 May	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A88	2437815.50	1962 Jun	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A105	2437845.50	1962 Jul	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A119	2437876.50	1962 Aug	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A146	2437907.50	1962 Sep	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A147	2437907.50	1962 Sep	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A148	2437907.50	1962 Sep	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A149	2437907.50	1962 Sep	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A162	2437937.50	1962 Oct	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A163	2437937.50	1962 Oct	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A181	2437968.50	1962 Nov	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A182	2437968.50	1962 Nov	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A183	2437968.50	1962 Nov	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1962-A206	2437998.50	1962 Dec	Corporal	-	-	0.000	AOMC	MU	-	-	Test	WSMR	-	-
1965-A224	2439054.50	1965 Oct 21	Corporal	-	-	0.000	NIKEX	MU	-	-	Test	PMRHist65	-	-
1965-A225	2439064.50	1965 Nov?	Corporal	-	-	0.000	NIKEX	MU	-	-	Test	PMRHist65	-	-
1965-A226	2439064.50	1965 Nov?	Corporal	-	-	0.000	NIKEX	MU	-	-	Test	PMRHist65	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M49	2438326.50	1963 Oct 24	DAC Roc	-	-	USN Eval 2	-	-	-	PA	LC-A	-	-	50?	-	-
1963-M52	2438373.50	1963 Dec 10	DAC Roc	-	-	USN Eval 4	-	-	-	PA	LC-A	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M49	2438326.50	1963 Oct 24	DAC Roc	-	-	0.000	NOTS?	SU	-	DAC/	Aeron?	VAFB	MR631028-16	-
1963-M52	2438373.50	1963 Dec 10	DAC Roc	-	-	0.000	NOTS?	SU	-	DAC/	Aeron?	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-A09	2449218.45	1993 Aug 18 2243:56	DC-X	-	-	-	-	-	-	WS	-	-	-	0	-	-
1993-A12	2449242.22	1993 Sep 11 1712:03	DC-X	-	-	-	-	-	-	WS	-	-	-	0	-	-
1993-A14	2449261.19	1993 Sep 30 1628	DC-X	-	-	-	-	-	-	WS	-	-	-	0	-	-
1994-A06	2449524.11	1994 Jun 20 1442	DC-X	-	-	-	-	-	-	WS	-	-	-	1	-	-
1994-A07	2449531.11	1994 Jun 27 1436	DC-X	-	-	-	-	-	-	WS	-	-	-	0	-	-
1995-A03	2449854.15	1995 May 16 1540:02	DC-X	-	-	-	-	-	-	WS	-	-	-	1	-	-
1995-A04	2449881.11	1995 Jun 12 1438	DC-X	-	-	-	-	-	-	WS	-	-	-	1	-	-
1995-A05	2449906.04	1995 Jul 7 1302	DC-X	-	-	-	-	-	-	WS	-	-	-	2	-	-
1996-A02	2450222.10	1996 May 18 1420	DC-XA	-	-	-	-	-	-	WS	-	-	-	0	-	-
1996-A03	2450242.18	1996 Jun 7 1615	DC-XA	-	-	-	-	-	-	WS	-	-	-	0	-	-
1996-A04	2450243.26	1996 Jun 8 1817	DC-XA	-	-	-	-	-	-	WS	-	-	-	3	-	-
1996-A05	2450296.30	1996 Jul 31 1915	DC-XA	-	-	-	-	-	-	WS	-	-	-	1	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-A09	2449218.45	1993 Aug 18 2243:56	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	AWST930823-26	-	-
1993-A12	2449242.22	1993 Sep 11 1712:03	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	AWST930920-39	-	-
1993-A14	2449261.19	1993 Sep 30 1628	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	Wire	AWST931004-19	-
1994-A06	2449524.11	1994 Jun 20 1442	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	Rigg	AWST940627-26	-
1994-A07	2449531.11	1994 Jun 27 1436	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	Wire	AWST940704-31	-
1995-A03	2449854.15	1995 May 16 1540:02	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	Rigg	SN950522-8	-
1995-A04	2449881.11	1995 Jun 12 1438	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	SN950619-17	-	-
1995-A05	2449906.04	1995 Jul 7 1302	DC-X	-	-	0.000	SDIO	TS	-	MDAC/	Test	Wire	AWST950717-28	-
1996-A02	2450222.10	1996 May 18 1420	DC-XA	-	-	0.000	MSFC	TS	-	MDAC/	Test	SN960527-4	-	-
1996-A03	2450242.18	1996 Jun 7 1615	DC-XA	-	-	0.000	MSFC	TS	-	MDAC/	Test	SN960610-4	-	-
1996-A04	2450243.26	1996 Jun 8 1817	DC-XA	-	-	0.000	MSFC	TS	-	MDAC/	Test	AWST960617-32	Wire	-
1996-A05	2450296.30	1996 Jul 31 1915	DC-XA	-	-	0.000	MSFC	TF	U	MDAC/	Test	AP960731	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-S188	2447891.50	1990	DF-11	-	-	Test launch	-	-	-	TYSC?	-	-	-	100?	-	-
2002-M34	2452420.50	2002 May 26	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2003-M13	2452915.65	2003 Oct 3 0342	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2004-M13	2453338.50	2004 Nov 29	Ghaznavi	-	Hatf III	-	-	-	-	SOM	-	-	-	50?	-	-
2006-M05	2453886.50	2006 Jun	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2006-M06	2454078.50	2006 Dec 9	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2008-M09	2454509.50	2008 Feb 13	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2010-M11	2455324.50	2010 May 8	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2014-M02	2456769.50	2014 Apr 22	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2014-M03	2456785.50	2014 May 8	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	50?	-	-
2018-A51	2458255.48	2018 May 16 2333	OS-X0	-	OS-X0	-	-	-	-	JQ?	-	-	-	39	-	-
2018-A136	2458368.67	2018 Sep 7 0410:03	OS-X1	-	Chongqing Liangjiang	-	-	-	-	JQ	-	-	-	35	-	-
2019-F03	2458569.90	2019 Mar 27 0939	OS-M1	-	OS-M1	-	-	-	-	JQ	-	-	-	10?	-	-
2021-S12	2459248.50	2021 Feb 3?	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	80?	-	-
2021-S13	2459250.88	2021 Feb 5 0905:05	OS-X6B	-	Chongqing Lianjiang	-	-	-	-	JQ?	-	-	-	300?	-	-
2021-S53	2459438.50	2021 Aug 12	Ghaznavi	-	Hatf III	-	-	-	-	SOM?	-	-	-	80?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-S188	2447891.50	1990	DF-11	-	-	0.000	PLA	MS	-	-	Test	sinodefense.com	-	-
2002-M34	2452420.50	2002 May 26	Ghaznavi	-	Hatf III	0.000	NESCOMP	MS	-	-	Test	Rigg	missilethreat.com	-
2003-M13	2452915.65	2003 Oct 3 0342	Ghaznavi	-	Hatf III	0.000	NESCOMP	MS	-	-	Test	Rigg	missilethreat.com	-
2004-M13	2453338.50	2004 Nov 29	Ghaznavi	-	Hatf III	0.000	NESCOMP	MS	-	-	Test	AWST041206-22	missilethreat.com	-
2006-M05	2453886.50	2006 Jun	Ghaznavi	-	Hatf III	0.000	NESCOMP	MS	-	-	Test	missilethreat.com	-	-
2006-M06	2454078.50	2006 Dec 9	Ghaznavi	-	Hatf III	0.000	NESCOMP	MS	-	-	Test	missilethreat.com	-	-
2008-M09	2454509.50	2008 Feb 13	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	missilethreat.com	-	-
2010-M11	2455324.50	2010 May 8	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2014-M02	2456769.50	2014 Apr 22	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2014-M03	2456785.50	2014 May 8	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2018-A51	2458255.48	2018 May 16 2333	OS-X0	-	OS-X0	0.000	LYK	SS	-	-	Test	nasaspaceflight.com	-	-
2018-A136	2458368.67	2018 Sep 7 0410:03	OS-X1	-	Chongqing Liangjiang	0.000	LYK	SS	-	-	Test	nasaspaceflight.com	-	-
2019-F03	2458569.90	2019 Mar 27 0939	OS-M1	-	OS-M1	0.010	LYK	OF	S2G	C0	Sat LEO 0	nasaspaceflight.com	-	Gyro failed
2021-S12	2459248.50	2021 Feb 3?	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2021-S13	2459250.88	2021 Feb 5 0905:05	OS-X6B	-	Chongqing Lianjiang	0.000	LYK	SS	-	-	Test	chinadaily.con.cn	-	-
2021-S53	2459438.50	2021 Aug 12	Ghaznavi	-	Hatf III	0.000	PKAFSC	MS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-S01	2447312.50	1988 Jun?	DF-15	-	-	-	-	-	-	TYSC?	-	-	-	100?	-	-
1995-S01	2449717.50	1995	DF-15	-	-	-	-	-	-	LEPI	-	-	-	100?	-	-
1996-S76	2450150.17	1996 Mar 7 1600?	DF-15	-	-	Near Taiwan	-	-	-	LEPI	-	-	-	100?	-	-
1996-S77	2450150.21	1996 Mar 7 1700?	DF-15	-	-	Near Taiwan	-	-	-	LEPI	-	-	-	100?	-	-
1996-S78	2450150.25	1996 Mar 7 1800?	DF-15	-	-	Near Taiwan	-	-	-	LEPI	-	-	-	100?	-	-
1996-S79	2450155.50	1996 Mar 13	DF-15	-	-	Near Taiwan	-	-	-	LEPI	-	-	-	100?	-	-
1999-A01	2451193.50	1999 Jan 15?	Shaheen 1	-	-	-	-	-	-	SOM	-	-	-	0?	-	-
1999-S26	2451283.71	1999 Apr 15 0458	Shaheen 1	-	-	-	-	-	-	SOM	-	-	-	100?	-	-
2002-S61	2452551.60	2002 Oct 4 0230	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	Baluch.
2003-S57	2452920.63	2003 Oct 8 0313	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	-
2003-S59	2452926.50	2003 Oct 14	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	-
2004-S82	2453347.50	2004 Dec 8	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	-
2006-S68	2454068.50	2006 Nov 29	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	-
2008-S04	2454490.50	2008 Jan 25	Shaheen 1	-	Hatf IV	-	-	-	-	SOM	-	-	-	100?	-	-
2010-M10	2455324.50	2010 May 8	Shaheen 1	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	-	-
2012-S19	2456042.50	2012 Apr 25	Shaheen 1A	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	-	-
2013-S23	2456392.50	2013 Apr 10	Shaheen 1	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	-	Sea
2014-S73	2456978.50	2014 Nov 17	Shaheen 1A	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	-	-
2015-S92	2457371.50	2015 Dec 15	Shaheen 1A	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	900	Arabian Sea
2016-S71	2457734.50	2016 Dec 12	DF-15	-	DF-15C	-	-	-	-	JQ	-	-	-	100?	-	Korla?
2021-S81	2459299.50	2021 Mar 26	Shaheen 1A	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	900	Arabian Sea
2021-S87	2459543.50	2021 Nov 25	Shaheen 1A	-	Hatf IV	-	-	-	-	SOM?	-	-	-	100?	900	Arabian Sea?
2022-S61	2459795.75	2022 Aug 4 0556?	DF-15	-	-	Near-Taiwan Zone 1	-	-	-	PRC-T1	-	-	-	100?	-	120E 22N?
2022-S62	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 1	-	-	-	PRC-T1	-	-	-	100?	-	119E 22.5N?
2022-S63	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 1	-	-	-	PRC-T1	-	-	-	100?	-	-
2022-S64	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 2	-	-	-	PRC-T2	-	-	-	100?	-	121.8E25.8N?
2022-S65	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 2	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S66	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 2	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S67	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 2	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S68	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S69	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S70	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T2	-	-	-	100?	-	-
2022-S71	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	123E 23N
2022-S72	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	-
2022-S73	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	-
2022-S74	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	-
2022-S75	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	-
2022-S76	2459795.75	2022 Aug 4 0600?	DF-15	-	-	Near-Taiwan Zone 3	-	-	-	PRC-T3	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-S01	2447312.50	1988 Jun?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1995-S01	2449717.50	1995	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1996-S76	2450150.17	1996 Mar 7 1600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
1996-S77	2450150.21	1996 Mar 7 1700?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
1996-S78	2450150.25	1996 Mar 7 1800?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
1996-S79	2450155.50	1996 Mar 13	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
1999-A01	2451193.50	1999 Jan 15?	Shaheen 1	-	-	0.000	PK	MF	U	-	Test	Wire	-	-
1999-S26	2451283.71	1999 Apr 15 0458	Shaheen 1	-	-	0.000	PK	MS	-	-	Test	Wire	-	-
2002-S61	2452551.60	2002 Oct 4 0230	Shaheen 1	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	Rigg	-
2003-S57	2452920.63	2003 Oct 8 0313	Shaheen 1	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Rigg	missilethreat.com	-
2003-S59	2452926.50	2003 Oct 14	Shaheen 1	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	spacedaily.com	-	-
2004-S82	2453347.50	2004 Dec 8	Shaheen 1	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	missilethreat.com	-	-
2006-S68	2454068.50	2006 Nov 29	Shaheen 1	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2008-S04	2454490.50	2008 Jan 25	Shaheen 1	-	Hatf IV	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2010-M10	2455324.50	2010 May 8	Shaheen 1	-	Hatf IV	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2012-S19	2456042.50	2012 Apr 25	Shaheen 1A	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2013-S23	2456392.50	2013 Apr 10	Shaheen 1	-	Hatf IV	0.000	NESCOMN?	MS	-	-	Test	Wire	-	-
2014-S73	2456978.50	2014 Nov 17	Shaheen 1A	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2015-S92	2457371.50	2015 Dec 15	Shaheen 1A	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2016-S71	2457734.50	2016 Dec 12	DF-15	-	DF-15C	0.000	PLA2AC	MS	-	-	Test	eastpendulum.com	-	-
2021-S81	2459299.50	2021 Mar 26	Shaheen 1A	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2021-S87	2459543.50	2021 Nov 25	Shaheen 1A	-	Hatf IV	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2022-S61	2459795.75	2022 Aug 4 0556?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S62	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S63	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S64	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S65	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S66	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S67	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S68	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S69	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S70	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S71	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S72	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S73	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S74	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S75	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-
2022-S76	2459795.75	2022 Aug 4 0600?	DF-15	-	-	0.000	PLA2AC	MS	-	-	Test	taiwandc.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-S112	2445089.50	1982 Apr 30	JL-1	-	CSS-NX-3	-	-	-	-	HULU	-	-	-	0?	-	-
1982-S174	2445254.50	1982 Oct 12	JL-1	-	-	-	-	-	CH200	YEL	-	-	-	500?	-	-
1985-S72	2446205.50	1985 May 20	DF-21	-	-	-	-	-	-	TYSC?	-	-	-	500?	-	-
1985-S273	2446215.50	1985 May 30	DF-21	-	-	-	-	-	-	TYSC?	-	-	-	500?	-	-
1985-A07	2446336.50	1985 Sep 28	JL-1	-	-	-	-	-	CH406	YEL	-	-	-	0?	-	-
1987-S184	2447038.50	1987 Sep	DF-21	-	-	-	-	-	-	TYSC?	-	-	-	500?	-	-
1988-S120	2447431.50	1988 Sep 27	JL-1	-	-	-	-	-	CH406	YEL	-	-	-	500?	-	-
1992-A08	2448741.50	1992 Apr 29	DF-21	-	DF-21A test	-	-	-	-	TYSC?	-	-	-	0?	-	-
1992-A09	2448926.50	1992 Nov	DF-21	-	DF-21A test	-	-	-	-	TYSC	-	-	-	0?	-	-
1993-A01	2448987.50	1993?	DF-21	?	-	-	-	-	-	TYSC?	-	-	-	0?	-	-
1995-S92	2449717.50	1995 Jan	DF-21	-	DF-21A	-	-	-	-	TYSC?	-	-	-	500?	-	-
1995-S47	2449898.50	1995 Jul	DF-21	-	DF-21A	-	-	-	-	TYSC?	-	-	-	500?	-	-
1995-S75	2450031.50	1995 Nov 10	DF-21	?	DF-21A	-	-	-	-	TYSC	-	-	-	1000?	-	-
1996-S03	2450092.50	1996 Jan 10	DF-21	?	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
1996-S74	2450445.50	1996 Dec 28	DF-21	?	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2002-S82	2452455.50	2002 Jul	DF-21	-	Decoy test	-	-	-	-	TYSC?	-	-	-	1000?	-	-
2002-F01	2452532.94	2002 Sep 15 1030	KT-1	-	001201Y	PS-1	HTSTL-1	-	-	TYSC	-	-	-	100?	-	-
2002-S83	2452608.50	2002 Dec	DF-21	-	Decoy test	-	-	-	-	TYSC?	-	-	-	1000?	-	-
2003-U01	2452898.94	2003 Sep 16 1030?	KT-1	-	-	PS-2	KT-1 Test Payload	-	-	TYSC	-	-	-	100?	-	-
2004-S75	2453005.50	2004 Q1	DF-21	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2004-S11	2453073.50	2004 Mar 9	Shaheen 2	-	-	-	-	-	-	SOM	-	-	-	300?	-	-
2005-S16	2453448.50	2005 Mar 19	Shaheen 2	-	-	-	-	-	-	SOM	-	-	-	300?	-	-
2005-F04	2453530.50	2005 Jun 9	KT-1	?	UNCONFIRMED	MS-1?	MS-1?	-	-	TYSC	-	-	-	300?	-	-
2005-S63	2453558.50	2005 Jul 7	DF-21	?	-	ASAT 1	KT-409?	-	-	XSC	-	-	-	850?	-	-
2006-S75	2453772.50	2006 Feb 6	DF-21	?	-	ASAT 2	-	-	-	XSC	-	-	-	850?	-	-
2006-S18	2453854.50	2006 Apr 29	Shaheen 2	-	-	-	-	-	-	SOM	-	-	-	300?	-	-
2007-S01	2454112.44	2007 Jan 11 2228?	DF-21	?	-	ASAT 3	-	-	-	XSC	-	-	-	850?	-	-
2007-S46	2454154.50	2007 Feb 23	Shaheen 2	-	-	-	-	-	-	SOM	-	-	-	300?	-	-
2008-S16	2454575.50	2008 Apr 19	Shaheen 2	-	-	Hatf-VI	-	-	-	SOM	-	-	-	300?	-	-
2008-S17	2454577.50	2008 Apr 21	Shaheen 2	-	-	Hatf-VI	-	-	-	SOM	-	-	-	300?	-	-
2010-S02	2455207.99	2010 Jan 11 1152:42	DF-21	?	-	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2012-S89	2456003.50	2012 Mar 17	Kuaizhou	?	UNCONFIRMED	Test payload?	-	-	-	JQ	LC43/95	-	-	200?	-	-
2013-S04	2456320.01	2013 Jan 27 1210?	DF-21	?	-	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2013-U01	2456426.04	2013 May 13 1258	DF-21	?	-	Kunpeng-7	-	-	-	XSC	-	-	-	10000	-	-
2013-053	2456560.69	2013 Sep 25 0437	Kuaizhou	-	1	Kuaizhou-1	-	-	-	JQ	LC43/95	-	-	395	-	-
2014-S41	2456861.50	2014 Jul 23	DF-21	?	-	ABM Interceptor	Alleged ASAT?	-	-	JQ?	-	-	-	250?	-	-
2014-S72	2456974.50	2014 Nov 13	Shaheen 2	-	-	Hatf-VI	-	-	-	SOM	-	-	-	300?	-	-
2014-073	2456982.78	2014 Nov 21 0637:08	Kuaizhou	-	2	Kuaizhou-2	-	-	-	JQ	LC43/95	-	-	342	-	-
2015-S18	2457090.50	2015 Mar 9	Shaheen 3	-	-	-	-	-	-	SOM	-	-	-	500?	2750?	Arab. Sea
2015-S66	2457327.46	2015 Oct 31 2300?	DF-21	?	-	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2015-S91	2457367.50	2015 Dec 11	Shaheen 3	-	-	-	-	-	-	SOM	-	-	-	500?	2750?	Arab. Sea
2017-002	2457762.67	2017 Jan 9 0411:12	Kuaizhou-1A	-	Y1	Jilin-1 Shipin 03	Jilin-1	-	-	JQ	LC43/95	-	-	549	-	-
2017-S03	2457777.50	2017 Jan 24	Ababeel	-	-	-	-	-	-	SOM?	-	-	-	300?	2200?	Arab. Sea
2017-S60	2457958.08	2017 Jul 23 1400?	DF-21	?	-	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2018-S09	2458154.50	2018 Feb 5	DF-21	?	-	ABM Target	-	-	-	JQ	-	-	-	100?	-	-
2018-S10	2458154.50	2018 Feb 5	DF-21	?	DN-3	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2018-S20	2458213.25	2018 Apr 4 1800	Shuang Quxian 1	S	Hyperbola-1S	-	-	-	-	HAI	-	-	-	108	-	-
2018-S48	2458366.71	2018 Sep 5 0500	Shuang Quxian 1	S	Hyperbola-1Z	01S-01	-	-	-	JQ	-	-	-	108	-	-
2018-075	2458390.68	2018 Sep 29 0413:30	Kuaizhou-1A	-	Y8	Centispace-1-1S	Centispace-1-1S	-	-	JQ	LC43/95	-	-	820	-	-
2018-F02	2458418.83	2018 Oct 27 0800	Zhuque-1	-	-	Weilai	Weilai	-	-	JQ	LC43/95?	-	-	337	-	-
2019-S24	2458626.50	2019 May 23	Shaheen 2	-	-	Hatf-VI	-	-	-	SOM	-	-	-	300?	-	Arab. Sea
2019-043	2458689.71	2019 Jul 25 0500:00	Shuang Quxian 1	-	Y1	CAS-7B	-	-	-	JQ	-	-	-	299	-	-
2019-058	2458726.49	2019 Aug 30 2341	Kuaizhou-1A	-	Y10	KX-09	-	-	-	JQ	LC43/95	-	-	688	-	-
2019-075	2458800.65	2019 Nov 13 0340	Kuaizhou-1A	-	Y11	Jilin-1 Gaofen 02A	Jilin-1 GF02	-	-	JQ	LC43/95	-	-	631	-	-
2019-077	2458804.92	2019 Nov 17 1000	Kuaizhou-1A	-	Y7	KL-Alpha-A/B	-	-	-	JQ	LC43/95	-	-	1433	-	-
2019-086	2458824.62	2019 Dec 7 0255:46	Kuaizhou-1A	-	Y2	Jilin-1 Gaofen 02B	Jilin-1 GF02	-	-	TYSC	-	-	-	757	-	-
2019-087	2458824.87	2019 Dec 7 0852	Kuaizhou-1A	-	Y12	HEAD/Tianqi	-	-	-	TYSC	-	-	-	1134	-	-
2020-004	2458864.63	2020 Jan 16 0302	Kuaizhou-1A	-	Y9	Yinhe 1	Yinhe 1	-	-	JQ	LC43/95	-	-	791	-	-
2020-028	2458981.55	2020 May 12 0116	Kuaizhou-1A	-	Y6	Xingyun 2-01,02	-	-	-	JQ	LC43/95	-	-	963	-	-
2020-S25	2459086.50	2020 Aug 25	DF-26	-	-	-	-	-	-	DAQA	-	-	-	500?	2900?	S China Sea
2020-S26	2459086.50	2020 Aug 25	DF-21	-	-	DF-21D	-	-	-	NINGBO	-	-	-	500?	1600?	S China Sea
2020-F08	2459104.71	2020 Sep 12 0502	Kuaizhou-1A	-	Y3	Jilin-1 Gaofen 02C	-	-	-	JQ	LC43/95	-	-	300?	-	-
2020-080	2459160.80	2020 Nov 7 0712	Gushenxing 1	-	Y1	I Believe I Can Fly	Tianqi-11	-	-	JQ	-	-	-	502	-	-
2021-S11	2459234.50	2021 Jan 20	Shaheen 3	-	-	-	-	-	-	SOM	-	-	-	500?	2750?	Arab. Sea
2021-F01	2459246.84	2021 Feb 1 0815	Shuang Quxian 1	2	Y2	Tianshu	-	-	-	JQ	LC43/95	-	-	-	-	-
2021-S15	2459249.50	2021 Feb 4	DF-21	?	DN-3	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2021-F05	2459429.82	2021 Aug 3 0739	Shuang Quxian 1	3	Y5	Jilin-1 Mofang 1A	Jilin-1 MF01	-	-	JQ	LC43/95B	-	-	-	-	-
2021-086	2459484.76	2021 Sep 27 0619	Kuaizhou-1A	-	Y4	Jilin-1 Gaofen 02D	Jilin-1 GF02	-	-	JQ	LC43/95A?	-	-	564	-	-
2021-097	2459514.76	2021 Oct 27 0619	Kuaizhou-1A	-	Y5	Jilin-1 Gaofen 02F	Jilin-1 GF02	-	-	JQ	LC43/95?	-	-	550	-	-
2021-112	2459543.49	2021 Nov 24 2341	Kuaizhou-1A	-	Y13	Shiyan 11	-	-	-	JQ	LC43/95?	-	-	834	-	-
2021-117	2459555.68	2021 Dec 7 0412:30	Gushenxing 1	1	Y2	Keep On Moving	TD-1/LZ-1/JZJ1-03/JZJ5	-	-	JQ	LC43/95?	-	-	505	-	-
2021-F10	2459563.58	2021 Dec 15 0200	Kuaizhou-1A	-	Y17	GeeSat-1A/1B	-	-	-	JQ	LC43/95	-	-	-	-	-
2022-S24	2459678.50	2022 Apr 9	Shaheen 3	-	-	-	-	Targ. 58E 12N?	-	SOM	-	-	-	500?	2750?	Arab. Sea
2022-F02	2459712.80	2022 May 13 0709	Shuang Quxian 1	3	Y4	Jilin-1 Mofang 1A/R	Jilin-1 MF01	-	-	JQ	LC43/95B	-	-	-	-	-
2022-066	2459752.59	2022 Jun 22 0208	Kuaizhou-1A	-	Y23	Tianxing-1	-	-	-	JQ	LC43/95A	-	-	509	-	-
2022-095	2459800.67	2022 Aug 9 0411	Gushenxing 1	1	Y3	White Is The New Black	Taijing-1 01/02	-	-	JQ	LC43/95A	-	-	550	-	-
2022-102	2459814.61	2022 Aug 23 0236	Kuaizhou-1A	-	Y15	Chuangxin-16A/B	-	-	-	XSC	LC4	-	-	596	-	-
2022-108	2459828.60	2022 Sep 6 0224	Kuaizhou-1A	-	Y16	Centispace S3/S4	-	-	-	JQ	LC43/95A	-	-	765	-	-
2022-118	2459847.45	2022 Sep 24 2255	Kuaizhou-1A	-	Y14	Shiyan 14/15	-	-	-	TYSC	-	-	-	-	-	-
2022-155	2459899.76	2022 Nov 16 0620	Gushenxing 1	1	Y4	Young 4 You	Jilin-1 GF03	-	-	JQ	LC43/95A	-	-	-	-	-
2023-003	2459953.71	2023 Jan 9 0504	Gushenxing 1	1	Y5	Gime Me Five	Keji-1/Tianmu/Tianqi	-	-	JQ	LC43/95A	-	-	-	-	-
2023-S25	2460000.50	2023 Feb 25	DF-27	-	-	R&D	-	-	-	TYSC?	-	-	-	-	2100	-
2023-039	2460025.88	2023 Mar 22 0909	Kuaizhou-1A	-	Y19	Tianmu-1 03-06	-	-	-	JQ	LC43/95A	-	-	-	-	-
2023-051	2460041.67	2023 Apr 7 0400	Shuang Quxian 1	3	Y6	Test Payload	-	-	-	JQ	LC43/95B	-	-	-	-	-
2023-S18	2460048.50	2023 Apr 14	DF-21	?	DN-3	ABM Interceptor	-	-	-	URUM?	-	-	-	250?	-	-
2023-082	2460104.61	2023 Jun 9 0235:30	Kuaizhou-1A	-	Y20	Longjiang-3	-	-	-	JQ	LC43/95A	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-101	2460145.64	2023 Jul 20 0320	Kuaizhou-1A	-	Y22	Tianmu-1 07-10	-	-	-	JQ	LC43/95A	-	-	-	-	-
2023-103	2460147.71	2023 Jul 22 0507	Gushenxing 1	1	Y6	Lemon Tree	QK-1/XSD-16	-	-	JQ	LC43/95A	-	-	-	-	-
2023-117	2460166.67	2023 Aug 10 0403	Gushenxing 1	1	Y7	Lucky Seven	Xiguang-1	-	-	JQ	LC43/95A	-	-	-	-	-
2023-121	2460170.73	2023 Aug 14 0532	Kuaizhou-1A	-	Y21	Jiaotong-6/10	-	-	-	XSC	LC4	-	-	-	-	-
2023-127	2460181.71	2023 Aug 25 0459	Gushenxing 1	1	Y8	Cornfield Chase	Jilin-1 Kuanfu 02A	-	-	JQ	LC43/95A	-	-	-	-	-
2023-135	2460192.90	2023 Sep 5 0934:46	Gushenxing 1	S	Y1	The Little Mermaid	Tianqi-21/24	-	DEFU2	HHAI	LP4	-	-	-	-	-
2023-F09	2460208.71	2023 Sep 21 0459:10	Gushenxing 1	1	Y11	Autumn Sonata	Jilin-1 GF04B	-	-	JQ	LC43/95A	-	-	-	-	-
2023-S55	2460235.50	2023 Oct 18	Ababeel	-	-	-	-	-	-	SOM?	-	-	-	300?	2200?	Arab. Sea
2023-189	2460283.48	2023 Dec 4 2333	Gushenxing 1	1	Y9	We Won't Stop	Jiheng-1/Xingchi-1A	-	-	JQ	LC43/95A	-	-	-	-	-
2023-199	2460295.79	2023 Dec 17 0700	Shuang Quxian 1	3?	Y7	DEAR-1	Dier-1	-	-	JQ	-	-	-	-	-	-
2023-205	2460303.54	2023 Dec 25 0100	Kuaizhou-1A	-	Y26	Tianmu-1 11-14	Tianmu-1 11-14	-	-	JQ	LC43/95A	-	-	-	-	-
2023-208	2460305.78	2023 Dec 27 0650	Kuaizhou-1A	-	Y27	Tianmu-1 19-22	Tianmu-1 19-22	-	-	JQ	LC43/95A	-	-	-	-	-
2024-004	2460314.97	2024 Jan 5 1120	Kuaizhou-1A	-	Y28	Tianmu-1 15-18	Tianmu-1 15-18	-	-	JQ	LC43/95A	-	-	-	-	-
2024-008	2460320.66	2024 Jan 11 0352	Kuaizhou-1A	-	Y24	Tianxing-1 02	Chuangxin-15 02	-	-	JQ	LC43/95A	-	-	-	-	-
2024-102	2460459.84	2024 May 29 0812:27	Gushenxing 1	S	Y2	Beautiful World	Tianqi-25/28	-	DFHT	HHAI	LP6	-	-	-	-	-
2024-105	2460461.49	2024 May 30 2339	Gushenxing 1	1	Y12	Heroes	Jiguang 1/2/Yunyao-1	-	-	JQ	LC43/95A	-	-	-	-	-
2024-110	2460467.71	2024 Jun 6 0500	Gushenxing 1	1	Y13	Love On Top	TEE-01B	-	-	JQ	LC43/95A	-	-	-	-	-
2024-F03	2460502.49	2024 Jul 10 2340	Shuang Quxian 1	3?	Y8	Yunyao-1 15-17	Yunyao-1	-	-	JQ	LC43/95A	-	-	-	-	-
2024-153	2460551.72	2024 Aug 29 0522	Gushenxing 1	S	Y3	How Far I'll Go	Yunyao-1 15-17	-	DFHT	HHAI	LP6	-	-	-	-	-
2024-170	2460573.90	2024 Sep 20 0943	Kuaizhou-1A	-	Y31	Tianqi 29-32	Tianqi 29-32	-	-	XSC	LC4	-	-	-	-	-
2024-228	2460648.70	2024 Dec 4 0446	Kuaizhou-1A	E	Y32	Haishao-1	AIRSAT-08	-	-	XSC	LC4	-	-	-	-	-
2024-245	2460663.93	2024 Dec 19 1018	Gushenxing 1	S	Y4	Mega Space Molly	Tianqi-33/36	-	DFHT	HHAI	LP6	-	-	-	-	-
2025-013	2460695.92	2025 Jan 20 1011	Gushenxing 1	1	Y16	On Your Shoulders	Yunyao-1 37-40	-	-	JQ	LC43/95A	-	-	-	-	-
2025-F02	2460735.92	2025 Mar 1 1001	Kuaizhou-1A	-	Y33	Unknown	Unknown	-	-	JQ	LC43/95A	-	-	-	-	-
2025-055	2460751.84	2025 Mar 17 0807	Gushenxing 1	1	Y10	Auld Lang Syne	Yunyao-1 55-60	-	-	JQ	LC43/95B	-	-	-	-	-
2025-059	2460755.96	2025 Mar 21 1107	Gushenxing 1	1	Y17	Vernal Ascent	Yunyao-1 43-48	-	-	JQ	LC43/95B	-	-	-	-	-
2025-105	2460814.82	2025 May 19 0738	Gushenxing 1	S	HY5	-	Tianqi 16-18,20	-	DFHT	HHAI	LP6	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-S112	2445089.50	1982 Apr 30	JL-1	-	CSS-NX-3	0.000	PLA2AC	MF	U	-	Test	www.fas.org	-	-
1982-S174	2445254.50	1982 Oct 12	JL-1	-	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1985-S72	2446205.50	1985 May 20	DF-21	-	-	0.000	PLA2AC	MS	-	-	Test	wisconsinproject.org	http://m.tiexue.net	-
1985-S273	2446215.50	1985 May 30	DF-21	-	-	0.000	PLA2AC	MS	-	-	Test	m.tiexue.net	-	-
1985-A07	2446336.50	1985 Sep 28	JL-1	-	-	0.000	PLA2AC	MF	U	-	Test	JCM	-	-
1987-S184	2447038.50	1987 Sep	DF-21	-	-	0.000	PLA2AC	MS	-	-	Test	sinodefense.com	-	-
1988-S120	2447431.50	1988 Sep 27	JL-1	-	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1992-A08	2448741.50	1992 Apr 29	DF-21	-	DF-21A test	0.000	PLA2AC	MF	U	-	Test	www.fas.org	-	-
1992-A09	2448926.50	1992 Nov	DF-21	-	DF-21A test	0.000	PLA2AC	MF	U	-	Test	www.timmerman2000	-	-
1993-A01	2448987.50	1993?	DF-21	?	-	0.000	PLA2AC	MF	U	-	Test	www.fas.org	-	-
1995-S92	2449717.50	1995 Jan	DF-21	-	DF-21A	0.000	PLA2AC	MS	-	-	Test	m.tiexue.net	-	-
1995-S47	2449898.50	1995 Jul	DF-21	-	DF-21A	0.000	PLA2AC	MS	-	-	Test	AWST950731-23	-	-
1995-S75	2450031.50	1995 Nov 10	DF-21	?	DF-21A	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1996-S03	2450092.50	1996 Jan 10	DF-21	?	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
1996-S74	2450445.50	1996 Dec 28	DF-21	?	-	0.000	PLA2AC	MS	-	-	Test	www.fas.org	-	-
2002-S82	2452455.50	2002 Jul	DF-21	-	Decoy test	0.000	PLA2AC	MS	-	-	Test	missilethreat.com	-	-
2002-F01	2452532.94	2002 Sep 15 1030	KT-1	-	001201Y	0.036	PLA2AC	OF	S2	G	Sat LEO O	pc	-	Details unknown
2002-S83	2452608.50	2002 Dec	DF-21	-	Decoy test	0.000	PLA2AC	MS	-	-	Test	missilethreat.com	-	-
2003-U01	2452898.94	2003 Sep 16 1030?	KT-1	-	-	0.034	PLA2AC	OF	S4	G	Sat LEO O	ChenLan	-	LT is guess
2004-S75	2453005.50	2004 Q1	DF-21	-	-	0.000	PLA2AC	MS	-	-	Test	missilethreat.com	-	-
2004-S11	2453073.50	2004 Mar 9	Shaheen 2	-	-	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2005-S16	2453448.50	2005 Mar 19	Shaheen 2	-	-	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2005-F04	2453530.50	2005 Jun 9	KT-1	?	UNCONFIRMED	0.050	PLA2AC	OF	UX	G	Sat LEO O	nasaspaceflight.com	-	Unconfirmed launch
2005-S63	2453558.50	2005 Jul 7	DF-21	?	-	0.000	PLA2AC	MS	-	-	ASAT	Wire	-	-
2006-S75	2453772.50	2006 Feb 6	DF-21	?	-	0.000	PLA2AC	MS	-	-	ASAT	Wire	-	-
2006-S18	2453854.50	2006 Apr 29	Shaheen 2	-	-	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2007-S01	2454112.44	2007 Jan 11 2228?	DF-21	?	-	0.000	PLA2AC	MS	-	-	ASAT	Wire	-	-
2007-S46	2454154.50	2007 Feb 23	Shaheen 2	-	-	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2008-S16	2454575.50	2008 Apr 19	Shaheen 2	-	-	0.000	NESCOMN	MS	-	-	Test	Wire	-	-
2008-S17	2454577.50	2008 Apr 21	Shaheen 2	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2010-S02	2455207.99	2010 Jan 11 1152:42	DF-21	?	-	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	Wikileaks	-	-
2012-S89	2456003.50	2012 Mar 17	Kuaizhou	?	UNCONFIRMED	0.000	PLA2AC	SU	-	-	Test	nasaspaceflight.com	-	Maybe orbital attempt
2013-S04	2456320.01	2013 Jan 27 1210?	DF-21	?	-	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	9fly.com	Wire	-
2013-U01	2456426.04	2013 May 13 1258	DF-21	?	-	0.000	PLA2AC	SS	-	-	Magnetosphere	Wire	-	-
2013-053	2456560.69	2013 Sep 25 0437	Kuaizhou	-	1	0.500	PLA2AC	OS	-	G	Sat SSO A	mod.gov.cn	-	-
2014-S41	2456861.50	2014 Jul 23	DF-21	?	-	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	Wire	-	-
2014-S72	2456974.50	2014 Nov 13	Shaheen 2	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2014-073	2456982.78	2014 Nov 21 0637:08	Kuaizhou	-	2	0.460	PLA2AC	OS	-	G	Sat SSO A	mod.gov.cn	-	-
2015-S18	2457090.50	2015 Mar 9	Shaheen 3	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2015-S66	2457327.46	2015 Oct 31 2300?	DF-21	?	-	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	armscontrolwonk.com	-	-
2015-S91	2457367.50	2015 Dec 11	Shaheen 3	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2017-002	2457762.67	2017 Jan 9 0411:12	Kuaizhou-1A	-	Y1	0.170	EXPACE	OS	-	CO	Sat SSO L	Wire	-	-
2017-S03	2457777.50	2017 Jan 24	Ababeel	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2017-S60	2457958.08	2017 Jul 23 1400?	DF-21	?	-	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	liuqiankktt.blog.163	-	-
2018-S09	2458154.50	2018 Feb 5	DF-21	?	-	0.000	PLA2AC	MS	-	-	ABM	eastpendulum.com	-	-
2018-S10	2458154.50	2018 Feb 5	DF-21	?	DN-3	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	Wire	-	-
2018-S20	2458213.25	2018 Apr 4 1800	Shuang Quxian 1	S	Hyperbola-1S	0.000	XJRY	SS	-	-	Test	nasaspaceflight.com	-	-
2018-S48	2458366.71	2018 Sep 5 0500	Shuang Quxian 1	S	Hyperbola-1Z	0.000	XJRY	SS	-	-	Test	nasaspaceflight.com	-	-
2018-075	2458390.68	2018 Sep 29 0413:30	Kuaizhou-1A	-	Y8	0.097	EXPACE	OS	-	CO	Sat SSO L	nasaspaceflight.com	-	-
2018-F02	2458418.83	2018 Oct 27 0800	Zhuque-1	-	-	0.020	LANDSP	OF	S3G	C	Sat SSO O	Wire	-	S3 lost attitude mid-burn
2019-S24	2458626.50	2019 May 23	Shaheen 2	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2019-043	2458689.71	2019 Jul 25 0500:00	Shuang Quxian 1	-	Y1	0.028	XJRY	OS	-	C	Sat LEO O	Wire	-	-
2019-058	2458726.49	2019 Aug 30 2341	Kuaizhou-1A	-	Y10	0.110	EXPACE	OS	-	CO/G	Sat SSO L	nasaspaceflight.com	-	-
2019-075	2458800.65	2019 Nov 13 0340	Kuaizhou-1A	-	Y11	0.230	EXPACE	OS	-	CO	Sat SSO P	nasaspaceflight.com	-	-
2019-077	2458804.92	2019 Nov 17 1000	Kuaizhou-1A	-	Y7	0.160	EXPACE	OS	-	CO	Sat LEO L	nasaspaceflight.com	-	-
2019-086	2458824.62	2019 Dec 7 0255:46	Kuaizhou-1A	-	Y2	0.230	EXPACE	OS	-	CO	Sat SSO L	nasaspaceflight.com	-	-
2019-087	2458824.87	2019 Dec 7 0852	Kuaizhou-1A	-	Y12	0.126	EXPACE	OS	-	CO	Sat SSO L	nasaspaceflight.com	-	-
2020-004	2458864.63	2020 Jan 16 0302	Kuaizhou-1A	-	Y9	0.227	EXPACE	OS	-	CO	Sat LEO P	nasaspaceflight.com	-	-
2020-028	2458981.55	2020 May 12 0116	Kuaizhou-1A	-	Y6	0.186	EXPACE	OS	-	CO	Sat SSO P	nasaspaceflight.com	-	-
2020-S25	2459086.50	2020 Aug 25	DF-26	-	-	0.000	PLA2AC	MS	-	-	Test	twitter/duandang	-	-
2020-S26	2459086.50	2020 Aug 25	DF-21	-	-	0.000	PLA2AC	MS	-	-	Test	twitter/duandang	-	-
2020-F08	2459104.71	2020 Sep 12 0502	Kuaizhou-1A	-	Y3	0.230	EXPACE	OF	S4?	CO	Sat SSO L	nasaspaceflight.com	-	Details unknown
2020-080	2459160.80	2020 Nov 7 0712	Gushenxing 1	-	Y1	0.040	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2021-S11	2459234.50	2021 Jan 20	Shaheen 3	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2021-F01	2459246.84	2021 Feb 1 0815	Shuang Quxian 1	2	Y2	0.010	XJRY	OF	S1G	C	Sat SSO O	nasaspaceflight.com	-	Foam lost fouled structure
2021-S15	2459249.50	2021 Feb 4	DF-21	?	DN-3	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	Wire	-	-
2021-F05	2459429.82	2021 Aug 3 0739	Shuang Quxian 1	3	Y5	0.018	XJRY	OF	FF	C	Sat SSO O	nasaspaceflight.com	-	Fairing ft sep
2021-086	2459484.76	2021 Sep 27 0619	Kuaizhou-1A	-	Y4	0.230	EXPACE	OS	-	CO	Sat SSO P	nasaspaceflight.com	-	-
2021-097	2459514.76	2021 Oct 27 0619	Kuaizhou-1A	-	Y5	0.230	EXPACE	OS	-	CO	Sat SSO P	nasaspaceflight.com	-	-
2021-112	2459543.49	2021 Nov 24 2341	Kuaizhou-1A	-	Y13	0.200	EXPACE	OS	-	CO/G	Sat SSO P	nasaspaceflight.com	-	-
2021-117	2459555.68	2021 Dec 7 0412:30	Gushenxing 1	1	Y2	0.330	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2021-F10	2459563.58	2021 Dec 15 0200	Kuaizhou-1A	-	Y17	0.260	EXPACE	OF	S3P	CO	Sat LEO L	nasaspaceflight.com	-	S3 failed mid burn
2022-S24	2459678.50	2022 Apr 9	Shaheen 3	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2022-F02	2459712.80	2022 May 13 0709	Shuang Quxian 1	3	Y4	0.018	XJRY	OF	S3G	C	Sat SSO O	nasaspaceflight.com	-	Leak in S3 RCS
2022-066	2459752.59	2022 Jun 22 0208	Kuaizhou-1A	-	Y23	0.200	EXPACE	OS	-	CO	Sat SSO P	nasaspaceflight.com	-	-
2022-095	2459800.67	2022 Aug 9 0411	Gushenxing 1	1	Y3	0.179	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2022-102	2459814.61	2022 Aug 23 0236	Kuaizhou-1A	-	Y15	0.200	EXPACE	OS	-	CO/G	Sat LEO D	nasaspaceflight.com	-	-
2022-108	2459828.60	2022 Sep 6 0224	Kuaizhou-1A	-	Y16	0.194	EXPACE	OS	-	CO	Sat LEO L	nasaspaceflight.com	-	-
2022-118	2459847.45	2022 Sep 24 2255	Kuaizhou-1A	-	Y14	0.200	EXPACE	OS	-	CO	Sat SSO L	nasaspaceflight.com	-	-
2022-155	2459899.76	2022 Nov 16 0620	Gushenxing 1	1	Y4	0.210	XIDO	OS	-	C	Sat SSO D	nasaspaceflight.com	-	-
2023-003	2459953.71	2023 Jan 9 0504	Gushenxing 1	1	Y5	0.200	XIDO	OS	-	C	Sat SSO D	nasaspaceflight.com	-	-
2023-S25	2460000.50	2023 Feb 25	DF-27	-	-	0.000	PLA2AC	MS	-	-	Test	isss.org	-	-
2023-039	2460025.88	2023 Mar 22 0909	Kuaizhou-1A	-	Y19	0.200	XIDO	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2023-051	2460041.67	2023 Apr 7 0400	Shuang Quxian 1	3	Y6	0.010	XJRY	OS	-	C	Sat SSO A	nasaspaceflight.com	-	-
2023-S18	2460048.50	2023 Apr 14	DF-21	?	DN-3	0.000	PLA2AC/CHFEN	MS	-	CHFEN/	ABM	Wire	-	-
2023-082	2460104.61	2023 Jun 9 0235:30	Kuaizhou-1A	-	Y20	0.120	EXPACE	OS	-	C	Sat LEO P	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-101	2460145.64	2023 Jul 20 0320	Kuaizhou-1A	-	Y22	0.200	EXPACE	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2023-103	2460147.71	2023 Jul 22 0507	Gushenxing 1	1	Y6	0.225	XIDO	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2023-117	2460166.67	2023 Aug 10 0403	Gushenxing 1	1	Y7	0.363	XIDO	OS	-	C	Sat SSO D	nasaspaceflight.com	-	-
2023-121	2460170.73	2023 Aug 14 0532	Kuaizhou-1A	-	Y21	0.200	EXPACE	OS	-	C	Sat LEO P	nasaspaceflight.com	-	-
2023-127	2460181.71	2023 Aug 25 0459	Gushenxing 1	1	Y8	0.230	XIDO	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2023-135	2460192.90	2023 Sep 5 0934:46	Gushenxing 1	S	Y1	0.160	XIDO	OS	-	C	Sat LEO P	nasaspaceflight.com	-	-
2023-F09	2460208.71	2023 Sep 21 0459:10	Gushenxing 1	1	Y11	0.230	XIDO	OF	S1P	C	Sat SSO P	nasaspaceflight.com	-	Nozzle failure
2023-S55	2460235.50	2023 Oct 18	Ababeel	-	-	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2023-189	2460283.48	2023 Dec 4 2333	Gushenxing 1	1	Y9	0.200	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2023-199	2460295.79	2023 Dec 17 0700	Shuang Quxian 1	3?	Y7	0.300	XJRY	OS	-	C	Sat SSO O	Wire	-	-
2023-205	2460303.54	2023 Dec 25 0100	Kuaizhou-1A	-	Y26	0.200	EXPACE	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2023-208	2460305.78	2023 Dec 27 0650	Kuaizhou-1A	-	Y27	0.200	EXPACE	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2024-004	2460314.97	2024 Jan 5 1120	Kuaizhou-1A	-	Y28	0.200	EXPACE	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2024-008	2460320.66	2024 Jan 11 0352	Kuaizhou-1A	-	Y24	0.200	EXPACE	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2024-102	2460459.84	2024 May 29 0812:27	Gushenxing 1	S	Y2	0.160	XIDO	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2024-105	2460461.49	2024 May 30 2339	Gushenxing 1	1	Y12	0.300	XIDO	OS	-	C	Sat SSO D	nasaspaceflight.com	-	-
2024-110	2460467.71	2024 Jun 6 0500	Gushenxing 1	1	Y13	0.300	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2024-F03	2460502.49	2024 Jul 10 2340	Shuang Quxian 1	3?	Y8	0.300	XJRY	OF	S4I?	C	Sat SSO O	Wire	-	Stage 4 failed
2024-153	2460551.72	2024 Aug 29 0522	Gushenxing 1	S	Y3	0.300	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2024-170	2460573.90	2024 Sep 20 0943	Kuaizhou-1A	-	Y31	0.160	EXPACE	OS	-	C	Sat LEO L	nasaspaceflight.com	-	-
2024-228	2460648.70	2024 Dec 4 0446	Kuaizhou-1A	E	Y32	0.400	EXPACE	OS	-	C	Sat LEO L	nasaspaceflight.com	-	-
2024-245	2460663.93	2024 Dec 19 1018	Gushenxing 1	S	Y4	0.160	XIDO	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-013	2460695.92	2025 Jan 20 1011	Gushenxing 1	1	Y16	0.300	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2025-F02	2460735.92	2025 Mar 1 1001	Kuaizhou-1A	-	Y33	0.200	EXPACE	OF	PE?	C	Sat SSO P	nasaspaceflight.com	-	Unconfirmed
2025-055	2460751.84	2025 Mar 17 0807	Gushenxing 1	1	Y10	0.200	XIDO	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2025-059	2460755.96	2025 Mar 21 1107	Gushenxing 1	1	Y17	0.200	XIDO	OS	-	C	Sat SSO P	nasaspaceflight.com	-	-
2025-105	2460814.82	2025 May 19 0738	Gushenxing 1	S	HY5	0.300	XIDO	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-S50	2451392.50	1999 Aug 2	DF-31	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2000-S63	2451852.50	2000 Nov 4	DF-31	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2000-S66	2451894.50	2000 Dec 16	DF-31	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2002-S81	2452601.50	2002 Nov 23	DF-31	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2004-A07	2453212.50	2004 Jul 26?	JL-2	-	-	Julang-2	-	-	CH406	YEL	-	-	-	10?	-	-
2005-S24	2453533.50	2005 Jun 12?	JL-2	-	-	-	-	-	CH406	YEL	-	-	-	1000?	-	-
2006-S50	2453982.50	2006 Sep 4	DF-31	-	-	-	-	-	-	TYSC	-	-	-	1000?	2500	-
2008-S25	2454615.50	2008 May 29	JL-2	-	-	-	-	-	CH406	YEL	-	-	-	1000?	-	-
2012-S44	2456132.50	2012 Jul 24	DF-41	-	DF-41	-	-	-	-	TYSC	-	-	-	1000?	-	-
2012-S49	2456155.50	2012 Aug 16	JL-2	-	-	-	-	-	T094	BOHAI	-	-	-	1000?	-	-
2012-S51	2456169.50	2012 Aug 30	DF-31	-	DF-31A?	-	-	-	-	TYSC	-	-	-	1000?	-	-
2012-S88	2456261.50	2012 Nov 30	DF-31	-	DF-31A?	-	-	-	-	TYSC	-	-	-	1000?	-	-
2013-S85	2456497.50	2013 Jul 24	DF-31	-	DF-31A?	-	-	-	-	TYSC	-	-	-	1000?	-	-
2013-S110	2456639.50	2013 Dec 13	DF-41	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2014-S59	2456925.50	2014 Sep 25	DF-31	-	DF-31B?	-	-	-	-	TYSC	-	-	-	1000?	-	-
2014-S81	2457004.50	2014 Dec 13	DF-41	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2015-S07	2457045.50	2015 Jan 23	JL-2	-	-	-	-	-	T094?	BOHAI	-	-	-	1000?	-	-
2015-S97	2457240.50	2015 Aug 6	DF-41	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2015-051	2457290.57	2015 Sep 25 0141:40	Chang Zheng 11	-	Y1	TW-1?	TW-1?	-	-	JQ	LC43/95	-	-	570	-	-
2016-S26	2457490.50	2016 Apr 12	DF-41	-	RV x 2	-	-	-	-	TYSC	-	-	-	1000?	-	Taklamakan
2016-066	2457702.49	2016 Nov 9 2342	Chang Zheng 11	-	Y2	MXSW	MXSW	-	-	JQ	LC43/95	-	-	1139	-	-
2017-012	2457815.50	2017 Mar 2 2353	KT-2	-	Y1	Tiankun-1	Tiankun-1	-	-	JQ	-	-	-	429	-	-
2018-008	2458137.68	2018 Jan 19 0412:50	Chang Zheng 11	-	Y3	Jilin-1 07,08	Jilin-1 Shipin 07-08	-	-	JQ	LC43/95	-	-	1070	-	-
2018-040	2458234.70	2018 Apr 26 0442	Chang Zheng 11	-	Y4	Zhuhai-1 02 zu	OVS-2, OHS-1A/B/C/D	-	-	JQ	LC43/95	-	-	532	-	-
2018-S81	2458444.50	2018 Nov 22?	JL-3	-	JL-3	-	-	-	T094?	BOHAI	-	-	-	1000?	-	-
2018-108	2458474.49	2018 Dec 21 2351	Chang Zheng 11	-	Y5	Hongyun Gongcheng	Hongyun GJYW	-	-	JQ	LC43/95	-	-	1141	-	-
2019-005	2458504.74	2019 Jan 21 0542:21	Chang Zheng 11	-	Y6	Jilin Guanpu 1,2	Jilin Guanpu 1,2	-	-	JQ	LC43/95	-	-	600	-	-
2019-032	2458639.67	2019 Jun 5 0406	Chang Zheng 11	H	Y1	Jilin/JSW	Jilin/JSW	-	CCOC	HHAI	LP1	-	-	633	-	-
2019-S28	2458636.35	2019 Jun 1 2030?	JL-3	-	JL-3	-	-	-	T094?	BOHAI	-	-	-	1000?	-	-
2019-S45	2458703.12	2019 Aug 7 1500?	DF-41	?	-	-	-	-	-	TYSC	-	-	-	3000?	-	-
2019-060	2458745.78	2019 Sep 19 0642	Chang Zheng 11	-	Y7	Zhuhai-1 03 zu	-	-	-	JQ	LC43/95	-	-	555	-	-
2019-S74	2458809.94	2019 Nov 22 1030?	DF-41	?	-	-	-	-	-	TYSC	-	-	-	3000?	-	-
2020-032	2458999.34	2020 May 29 2013	Chang Zheng 11	-	Y8	XJS G, H	-	-	-	XSC	LC4	-	-	502	-	-
2020-F06	2459040.68	2020 Jul 10 0417	Kuaizhou-11	-	Y1	Jilin Gaofen 02E	Jilin-1 GF02	-	-	JQ	LC43/95	-	-	-	-	-
2020-065	2459107.56	2020 Sep 15 0123	Chang Zheng 11	H	Y2	Jilin-1 03B/03C	Jilin-1	-	DEB03	HHAI	LP2	-	-	611	-	-
2020-094	2459193.34	2020 Dec 9 2014	Chang Zheng 11	-	Y9	GECAM A/B	-	-	-	XSC	LC4	-	-	655	-	-
2022-032	2459668.60	2022 Mar 30 0229	Chang Zheng 11	-	Y10	Tianping-2A/2B/2C	-	-	-	JQ	LC43/95	-	-	669	-	-
2022-046	2459699.65	2022 Apr 30 0330	Chang Zheng 11	H	Y3	Jilin-1 03D-04-07/04A	Jilin-1 GF03D	-	CCOC	HHAI	LP3	-	-	592	-	-
2022-126	2459860.05	2022 Oct 7 1310:29	Chang Zheng 11	H	Y4?	Centispace S5/S6	-	-	DEFU2	HHAI	LP4	-	-	-	-	-
2022-164	2459920.55	2022 Dec 7 0115	Kuaizhou-11	-	Y2	Xingyun Jiatong VDES	-	-	-	JQ	LC43/95?	-	-	-	-	-
2022-172	2459929.76	2022 Dec 16 0617	Chang Zheng 11	-	Y12	Shiyan-21	SJ2013	-	-	XSC	LC4	-	-	-	-	-
2023-034	2460018.99	2023 Mar 15 1141	Chang Zheng 11	-	Y11	Shiyan-19	-	-	-	JQ	LC43/95A	-	-	-	-	-
2023-206	2460304.44	2023 Dec 25 2239	Chang Zheng 11	H	Y5	Shiyan-24C 1-3	-	-	BRJZ	YJ	LP1	-	-	-	-	-
2024-095	2460451.68	2024 May 21 0415	Kuaizhou-11	-	Y4	Wuhan-1	-	-	-	JQ	LC43/95?	-	-	-	-	-
2024-S55	2460578.53	2024 Sep 25 0044	DF-31	-	-	DF-31AG	-	-	-	NEHAI	-	-	-	1000?	11600	146.5W 10.5S

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-S50	2451392.50	1999 Aug 2	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	www.cdiss.org	-	-
2000-S63	2451852.50	2000 Nov 4	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	www.orbireport.com	-	-
2000-S66	2451894.50	2000 Dec 16	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	www.orbireport.com	-	-
2002-S81	2452601.50	2002 Nov 23	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	missilethreat.com	-	or JQ?
2004-A07	2453212.50	2004 Jul 26?	JL-2	-	-	0.000	PLA2AC	MF	U	-	Test	Rigg	Wire	-
2005-S24	2453533.50	2005 Jun 12?	JL-2	-	-	0.000	PLA2AC	MS	-	-	Test	Wire	-	-
2006-S50	2453982.50	2006 Sep 4	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	TASS	-	-
2008-S25	2454615.50	2008 May 29	JL-2	-	-	0.000	PLA2AC	MS	-	-	Test	redbannernorthernflt	-	-
2012-S44	2456132.50	2012 Jul 24	DF-41	-	DF-41	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2012-S49	2456155.50	2012 Aug 16	JL-2	-	-	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-
2012-S51	2456169.50	2012 Aug 30	DF-31	-	DF-31A?	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2012-S88	2456261.50	2012 Nov 30	DF-31	-	DF-31A?	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2013-S85	2456497.50	2013 Jul 24	DF-31	-	DF-31A?	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2013-S110	2456639.50	2013 Dec 13	DF-41	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2014-S59	2456925.50	2014 Sep 25	DF-31	-	DF-31B?	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2014-S81	2457004.50	2014 Dec 13	DF-41	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2015-S07	2457045.50	2015 Jan 23	JL-2	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2015-S97	2457240.50	2015 Aug 6	DF-41	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2015-051	2457290.57	2015 Sep 25 0141:40	Chang Zheng 11	-	Y1	0.353	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2016-S26	2457490.50	2016 Apr 12	DF-41	-	RV x 2	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2016-066	2457702.49	2016 Nov 9 2342	Chang Zheng 11	-	Y2	0.817	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2017-012	2457815.50	2017 Mar 2 2353	KT-2	-	Y1	0.300	CASIC4A	OS	-	G	Sat SSO L	Wire	-	-
2018-008	2458137.68	2018 Jan 19 0412:50	Chang Zheng 11	-	Y3	0.211	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2018-040	2458234.70	2018 Apr 26 0442	Chang Zheng 11	-	Y4	0.352	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2018-S81	2458444.50	2018 Nov 22?	JL-3	-	JL-3	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2018-108	2458474.49	2018 Dec 21 2351	Chang Zheng 11	-	Y5	0.250	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2019-005	2458504.74	2019 Jan 21 0542:21	Chang Zheng 11	-	Y6	0.210	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2019-032	2458639.67	2019 Jun 5 0406	Chang Zheng 11	H	Y1	0.207	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2019-S28	2458636.35	2019 Jun 1 2030?	JL-3	-	JL-3	0.000	PLA2AC	MS	-	-	Test	eastpendulum.com	-	-
2019-S45	2458703.12	2019 Aug 7 1500?	DF-41	?	-	0.000	PLA2AC	MS	-	-	Test	sattrackcam.blogspot	-	-
2019-060	2458745.78	2019 Sep 19 0642	Chang Zheng 11	-	Y7	0.371	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2019-S74	2458809.94	2019 Nov 22 1030?	DF-41	?	-	0.000	PLA2AC	MS	-	-	Test	eastpendulum.com	-	-
2020-032	2458999.34	2020 May 29 2013	Chang Zheng 11	-	Y8	0.040	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2020-F06	2459040.68	2020 Jul 10 0417	Kuaizhou-11	-	Y1	0.327	EXPACE	OF	S3P	CO	Sat SSO O	nasaspaceflight.com	-	Details unknown
2020-065	2459107.56	2020 Sep 15 0123	Chang Zheng 11	H	Y2	0.378	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2020-094	2459193.34	2020 Dec 9 2014	Chang Zheng 11	-	Y9	0.300	CALT	OS	-	G	Sat LEO P	nasaspaceflight.com	-	-
2022-032	2459668.60	2022 Mar 30 0229	Chang Zheng 11	-	Y10	0.100	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2022-046	2459699.65	2022 Apr 30 0330	Chang Zheng 11	H	Y3	0.267	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2022-126	2459860.05	2022 Oct 7 1310:29	Chang Zheng 11	H	Y4?	0.194	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2022-164	2459920.55	2022 Dec 7 0115	Kuaizhou-11	-	Y2	0.500	EXPACE	OS	-	CO	Sat SSO L	nasaspaceflight.com	-	-
2022-172	2459929.76	2022 Dec 16 0617	Chang Zheng 11	-	Y12	0.100	CALT	OS	-	G	Sat LEO D	nasaspaceflight.com	-	-
2023-034	2460018.99	2023 Mar 15 1141	Chang Zheng 11	-	Y11	0.100	CALT	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2023-206	2460304.44	2023 Dec 25 2239	Chang Zheng 11	H	Y5	0.240	CALT	OS	-	G	Sat SSO P	nasaspaceflight.com	-	-
2024-095	2460451.68	2024 May 21 0415	Kuaizhou-11	-	Y4	0.558	EXPACE	OS	-	CO	Sat SSO D	nasaspaceflight.com	-	-
2024-S55	2460578.53	2024 Sep 25 0044	DF-31	-	-	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S699	2439485.62	1966 Dec 26 0300	DF-3	-	601601	R&D	-	-	-	JQ	LA2A	-	-	500?	-	-
1967-S629	2439490.50	1967 Jan	DF-3	-	601602?	R&D	-	-	-	JQ	LA2A	-	-	500?	-	-
1967-S630	2439636.50	1967 May 26	DF-3	-	-	R&D	-	-	-	JQ	LA2A	-	-	500?	-	-
1967-S631	2439651.50	1967 Jun 10	DF-3	-	-	R&D	-	-	-	JQ	LA2A	-	-	500?	-	-
1968-S684	2440208.50	1968 Dec 18	DF-3	-	602801	R&D batch 02	-	-	-	HARBIN?	-	-	-	500?	-	-
1969-S02	2440505.50	1969 Oct 11	DF-3	-	629903	Env test	-	-	-	HARBIN?	-	-	-	500?	-	-
1969-S714	2440541.50	1969 Nov 16	DF-4	-	601902	R&D (Destruct)	-	-	-	JQ	LA2A	-	-	500?	-	-
1970-S88	2440596.50	1970 Jan 10	Chang Zheng 1	-	601901	R&D (Minfeng target)	-	-	-	JQ	LA2A	-	-	500?	-	-
1970-034	2440701.07	1970 Apr 24 1335:45	Chang Zheng 1	-	601904	DFH-1	Dong Fang Hong	-	-	JQ	LA2A	-	-	2392	-	-
1970-S667	2440913.50	1970 Nov 23	DF-4	-	601906	Long range test	-	-	-	JIAN	-	-	-	500?	-	-
1971-018	2441014.00	1971 Mar 3 1202?	Chang Zheng 1	-	-	SJ-1	shijian	-	-	JQ	LA2A	-	-	1832	-	-
1971-S649	2441270.50	1971 Nov 15	DF-4	-	-	Long range test	-	-	-	JIAN	-	-	-	500?	-	-
1974-S430	2442224.50	1974 Jun 26	DF-3	-	702009	-	-	-	-	HARBIN?	-	-	-	500?	-	-
1974-S431	2442351.50	1974 Nov	DF-3	-	-	Reentry wake test	-	-	-	JQ	LA2A	-	-	500?	-	-
1974-S432	2442381.50	1974 Dec	DF-3	-	-	Reentry wake test	-	-	-	JQ	LA2A	-	-	500?	-	-
1976-S358	2442913.41	1976 May 14 2155	DF-4	-	702601	Performance test	-	-	-	JQ	LA2A	-	-	1000?	-	-
1976-S359	2443015.42	1976 Aug 24 2200	DF-4	-	702602	Performance test	-	-	-	JQ	LA2A	-	-	1000?	-	-
1977-S316	2443416.50	1977 Sep 30	DF-4	-	-	Full range test	-	-	-	JQ	LA2A	-	-	1000?	-	-
1977-S317	2443469.50	1977 Nov 22	DF-4	-	-	Full range test	-	-	-	JQ	LA2A	-	-	1000?	-	-
1980-S246	2444278.50	1980 Feb 9	DF-4	-	-	Test	-	-	-	JQ	LA2A	-	-	1000?	-	-
1980-S247	2444454.13	1980 Aug 2 1501	DF-4	-	802013	-	-	-	-	JINGYU	-	-	-	1000?	-	-
1980-S248	2444543.50	1980 Oct 31	DF-4	-	-	-	-	-	-	JINGYU	-	-	-	1000?	-	-
1982-S223	2444969.50	1982	DF-3	-	-	Long life test	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1982-S224	2444969.50	1982	DF-3	-	-	Long life test	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1985-S162	2446399.50	1985 Dec	DF-3A	-	-	R&D range test	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1986-S125	2446430.50	1986 Jan	DF-3A	-	-	R&D range test	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1986-S126	2446703.50	1986 Oct	DF-4	-	-	Op test	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1992-S104	2448621.50	1992	DF-4	-	-	Training	-	-	-	JQ?	LA2B?	-	-	500?	-	-
1995-S40	2449866.50	1995 May 29	Chang Zheng 1D	?	-	-	-	-	-	TYSC?	-	-	-	1000?	-	-
1997-S71	2450752.50	1997 Nov	Chang Zheng 1D	?	-	-	-	-	-	TYSC?	-	-	-	1000?	-	-
2001-S65	2452142.50	2001 Aug 21	DF-3	-	-	-	-	-	-	JQ?	-	-	-	500?	-	-
2002-S01	2452278.01	2002 Jan 3 1215	DF-4	?	-	DF-31 RV test	-	-	-	TYSC	-	-	-	100?	-	-
2017-S68	2457988.50	2017 Aug 23	DF-4	?	-	-	-	-	-	TYSC	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S699	2439485.62	1966 Dec 26 0300	DF-3	-	601601	0.000	CALT	MF	U	-	Test	www.xhclub.net/6291	Harvey	-
1967-S629	2439490.50	1967 Jan	DF-3	-	601602?	0.000	CALT	MF	U	-	Test	www.xhclub.net/6291	-	-
1967-S630	2439636.50	1967 May 26	DF-3	-	-	0.000	CALT	MS	-	-	Test	www.xhclub.net/6291	-	-
1967-S631	2439651.50	1967 Jun 10	DF-3	-	-	0.000	CALT	MS	-	-	Test	www.xhclub.net/6291	-	-
1968-S684	2440208.50	1968 Dec 18	DF-3	-	602801	0.000	CALT	MS	-	-	Test	www.xhclub.net/6291	-	-
1969-S02	2440505.50	1969 Oct 11	DF-3	-	629903	0.000	CALT	MS	-	-	Test	www.xhclub.net/6291	-	-
1969-S714	2440541.50	1969 Nov 16	DF-4	-	601902	0.000	CALT	MS	-	-	Test	Lissov	-	-
1970-S88	2440596.50	1970 Jan 10	Chang Zheng 1	-	601901	0.000	CALT	MS	-	-	Test	PSC	xhclub.net/Harvey	-
1970-034	2440701.07	1970 Apr 24 1335:45	Chang Zheng 1	-	601904	0.173	CALT	OS	-	G	Sat LEO O	LissovC	Harvey	-
1970-S667	2440913.50	1970 Nov 23	DF-4	-	601906	0.000	CALT	MF	U	-	Test	xhclub.net	NIE13-8-71	-
1971-018	2441014.00	1971 Mar 3 1202?	Chang Zheng 1	-	-	0.221	CALT	OS	-	G	Sat LEO O	TLE	-	-
1971-S649	2441270.50	1971 Nov 15	DF-4	-	-	0.000	CALT	MS	-	-	Test	xhclub.net	NIE13-8-74	-
1974-S430	2442224.50	1974 Jun 26	DF-3	-	702009	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1974-S431	2442351.50	1974 Nov	DF-3	-	-	0.000	CALT	MS	-	-	Test	xhclub.net	-	-
1974-S432	2442381.50	1974 Dec	DF-3	-	-	0.000	CALT	MS	-	-	Test	xhclub.net	-	-
1976-S358	2442913.41	1976 May 14 2155	DF-4	-	702601	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1976-S359	2443015.42	1976 Aug 24 2200	DF-4	-	702602	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1977-S316	2443416.50	1977 Sep 30	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1977-S317	2443469.50	1977 Nov 22	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1980-S246	2444278.50	1980 Feb 9	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	[Year not certain]	-
1980-S247	2444454.13	1980 Aug 2 1501	DF-4	-	802013	0.000	PLA2AC	MS	-	-	Test	xhclub.net	[Year not certain]	-
1980-S248	2444543.50	1980 Oct 31	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	[Year not certain]	-
1982-S223	2444969.50	1982	DF-3	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1982-S224	2444969.50	1982	DF-3	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1985-S162	2446399.50	1985 Dec	DF-3A	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1986-S125	2446430.50	1986 Jan	DF-3A	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1986-S126	2446703.50	1986 Oct	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1992-S104	2448621.50	1992	DF-4	-	-	0.000	PLA2AC	MS	-	-	Test	xhclub.net	-	-
1995-S40	2449866.50	1995 May 29	Chang Zheng 1D	?	-	0.000	CALT	MS	-	-	Test	Wire	-	-
1997-S71	2450752.50	1997 Nov	Chang Zheng 1D	?	-	0.000	CALT	MS	-	-	Test	PSC	-	-
2001-S65	2452142.50	2001 Aug 21	DF-3	-	-	0.000	PLA2AC	MS	-	-	Opt Test	globalsecurity.org	-	-
2002-S01	2452278.01	2002 Jan 3 1215	DF-4	?	-	0.000	PLA2AC	MF	U	-	Test	Wire	-	-
2017-S68	2457988.50	2017 Aug 23	DF-4	?	-	0.000	PLA2AC	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S438	2441204.50	1971 Sep 10	Dong Feng 5	-	-	1-01	-	-	-	JQ	LA2B	-	-	100?	-	-
1972-S281	2441539.52	1972 Aug 10 0032	Feng Bao 1	-	701-02	Shiyan Peizhong	-	-	-	JQ	LA2B	-	-	200?	-	-
1972-A139	2441621.50	1972 Nov	Dong Feng 5	-	-	1-02	-	-	-	JQ	LA2B	-	-	1?	-	-
1973-S477	2441772.50	1973 Apr	Dong Feng 5	-	-	1-03	-	-	-	JQ	LA2B	-	-	10?	-	-
1973-F07	2441944.01	1973 Sep 18 1212	Feng Bao 1	-	701-03	JSSW	JSSW	-	-	JQ	LA2B	-	-	185?	-	-
1974-F05	2442241.08	1974 Jul 12 1355	Feng Bao 1	-	701-04	JSSW	JSSW	-	-	JQ	LA2B	-	-	185?	-	-
1974-F07	2442356.90	1974 Nov 5 0940	Chang Zheng 2	-	Y1 (3)	FSW	FSW No. 1	-	-	JQ	LA2B	-	-	20?	-	-
1975-070	2442620.06	1975 Jul 26 1330	Feng Bao 1	-	701-05	JSSW	JSSW	-	-	JQ	LA2B	-	-	460	-	-
1975-111	2442742.64	1975 Nov 26 0327:52	Chang Zheng 2	-	Y2 (4)	FSW	FSW No. 2	-	-	JQ	LA2B	-	-	723	-	-
1975-119	2442762.89	1975 Dec 16 0921	Feng Bao 1	-	701-06	JSSW 701-06	JSSW	-	-	JQ	LA2B	-	-	392	-	-
1976-087	2443020.99	1976 Aug 30 1145	Feng Bao 1	-	701-07	JSSW 701-07	JSSW	-	-	JQ	LA2B	-	-	2149	-	-
1976-F03	2443092.88	1976 Nov 10 0905	Feng Bao 1	-	701-08	JSSW	JSSW?	-	-	JQ	LA2B	-	-	185?	-	-
1976-117	2443119.69	1976 Dec 7 0438	Chang Zheng 2C	-	CZ2C-3 (5)	FSW	FSW No. 3	-	-	JQ	LA2B	-	-	488	-	-
1977-S246	2443400.51	1977 Sep 14 0015	Feng Bao 1	-	701(II)-01	DDDS	-	-	-	JQ	LA2B	-	-	200?	-	-
1978-011	2443534.71	1978 Jan 26 0500?	Chang Zheng 2C	-	CZ2C-4 (6)	FSW	FSW No. 4	-	-	JQ	LA2B	-	-	507	-	-
1978-S112	2443614.19	1978 Apr 15 1639	Feng Bao 1	-	701(II)-02	DDDS	-	-	-	JQ	LA2B	-	-	200?	-	-
1978-S301	2443781.50	1978 Oct	Dong Feng 5	-	-	2-01	-	Depressed Traj?	-	JQ	LA2B?	-	-	500?	-	-
1979-S34	2443880.50	1979 Jan 7	Dong Feng 5	-	-	2-02	-	-	-	TYSC	-	-	-	1000?	-	-
1979-S290	2443873.50	1979	Dong Feng 5	-	-	2-03	-	-	-	TYSC	-	-	-	1000?	-	-
1979-S162	2444069.50	1979 Jul 15	Dong Feng 5	-	-	2-04?	-	-	-	JQ?	LA2B?	-	-	1000?	-	-
1979-F02	2444082.39	1979 Jul 27 2128	Feng Bao 1	-	XCZ-1-02	SJ-2	SKW	-	-	JQ	LA2B	-	-	240?	-	-
1979-S189	2444106.50	1979 Aug 21	Dong Feng 5	-	-	2-05?	-	-	-	JQ?	LA2B?	-	-	1000?	-	-
1979-S198	2444120.50	1979 Sep 4	Dong Feng 5	-	-	2-06	-	-	-	TYSC?	-	-	-	1000?	-	-
1979-S291	2444161.50	1979 Oct 15?	Dong Feng 5	-	-	2-07	-	-	-	TYSC	-	-	-	1000?	-	-
1979-S244	2444203.50	1979 Nov 26	Dong Feng 5	-	-	2-08?	-	-	-	TYSC?	-	-	-	1000?	-	-
1980-S277	2444284.50	1980 Feb 15	Dong Feng 5	-	-	2-09?	-	-	-	TYSC?	-	-	-	1000?	-	-
1980-S109	2444377.58	1980 May 18 0200	Dong Feng 5	-	-	580A	-	-	-	JQ	LA2B?	-	-	1000?	9070	172 15E 7 42
1980-S111	2444380.64	1980 May 21 0319	Dong Feng 5	-	-	580B	-	-	-	JQ	LA2B?	-	-	1000?	7500?	172 20E 7 20
1981-093	2444867.39	1981 Sep 19 2128:40	Feng Bao 1	-	XCZ-1-02	SJ-2	shijian erhao B xing	-	-	JQ	LA2B	-	-	1631	-	-
1981-S177	2444945.50	1981 Dec 7	Dong Feng 5	-	-	2-10?	-	-	-	TYSC	-	-	-	1000?	-	-
1982-090	2445221.80	1982 Sep 9 0719	Chang Zheng 2C	-	Y1	FSW	FSW No. 5	-	-	JQ	LA2B	-	-	860	-	-
1983-086	2445565.75	1983 Aug 19 0600	Chang Zheng 2C	-	Y2	FSW	FSW No. 6	-	-	JQ	LA2B	-	-	572	-	-
1984-008	2445729.02	1984 Jan 29 1225	Chang Zheng 3	-	Y1	STW	STW-1	-	-	XSC	LC3	-	-	6587	-	-
1984-035	2445798.97	1984 Apr 8 1120	Chang Zheng 3	-	Y2	STW	STW	-	-	XSC	LC3	-	-	39173	-	-
1984-098	2445955.74	1984 Sep 12 0544	Chang Zheng 2C	-	Y3	FSW	FSW No. 7	-	-	JQ	LA2B	-	-	399	-	-
1985-096	2446359.71	1985 Oct 21 0504	Chang Zheng 2C	-	Y4	FSW	FSW No. 8	-	-	JQ	LA2B	-	-	394	-	-
1986-010	2446463.03	1986 Feb 1 1237	Chang Zheng 3	-	Y3	DFH-2	DFH-2	-	-	XSC	LC3	-	-	36241	-	-
1986-076	2446709.74	1986 Oct 6 0540	Chang Zheng 2C	-	Y5	FSW	FSW No. 9	-	-	JQ	LA2B	-	-	405	-	-
1987-067	2447012.78	1987 Aug 5 0639	Chang Zheng 2C	-	Y6	FSW	FSW No. 10	-	-	JQ	LA2B	-	-	396	-	-
1987-075	2447047.80	1987 Sep 9 0715	Chang Zheng 2C	-	Y7	FSW-1	FSW-1 No. 1	-	-	JQ	LA2B	-	-	310	-	-
1988-014	2447228.03	1988 Mar 7 1241	Chang Zheng 3	-	Y4	Zhongxing 1	DFH-2A	-	-	XSC	LC3	-	-	37120	-	-
1988-067	2447378.81	1988 Aug 5 0728:35	Chang Zheng 2C	-	Y8	FSW-1	FSW-1 RV	-	-	JQ	LA2B	-	-	735	-	-
1988-080	2447411.35	1988 Sep 6 2030:19	Chang Zheng 4	-	Y1	Feng Yun 1	feng yun yi jia	-	-	TYSC	LC7	-	-	946	-	-
1988-111	2447518.03	1988 Dec 22 1240	Chang Zheng 3	-	Y5	Zhongxing 2	DFH 2A-2	-	-	XSC	LC3	-	-	37168	-	-
1989-S134	2447526.50	1989	Dong Feng 5	-	-	3-01	-	-	-	TYSC?	-	-	-	1000?	-	-
1990-011	2447927.02	1990 Feb 4 1227:03	Chang Zheng 3	-	Y6	Zhongxing 3	DFH 2A	-	-	XSC	LC3	-	-	37201	-	-
1990-030	2447989.06	1990 Apr 7 1330:02	Chang Zheng 3	-	Y7	Asiasat 1	Asiasat 1	-	-	XSC	LC3	-	-	36745	-	-
1990-059	2448088.53	1990 Jul 16 0040	Chang Zheng 2E	-	Y1	HS-601 Model	BADR	-	-	XSC	LC2	-	-	990	-	-
1990-081	2448137.54	1990 Sep 3 0053	Chang Zheng 4	-	Y2	Feng Yun 1	feng yun yi yi	-	-	TYSC	LC7	-	-	963	-	-
1990-089	2448169.76	1990 Oct 5 0614	Chang Zheng 2C	-	Y9	FSW-1	FSW-1 No. 3	-	-	JQ	LA2B	-	-	313	-	-
1991-088	2448619.00	1991 Dec 28 1200?	Chang Zheng 3	-	Y9	Zhongxing 4	DFH 2A-4	-	-	XSC	LC3?	-	-	35076	-	-
1992-051	2448843.83	1992 Aug 9 0800	Chang Zheng 2D	a	Y1	FSW-2	FSW-2 No. 1	-	-	JQ	LA2B	-	-	347	-	-
1992-054	2448848.46	1992 Aug 13 2300	Chang Zheng 2E	-	Y3	Optus B1	Optus B1	-	-	XSC	LC2	-	-	37343	-	-
1992-064	2448901.76	1992 Oct 6 0620:05	Chang Zheng 2C	-	Y10	FSW-1/Freja	Freja	-	-	JQ	LA2B	-	-	1844	-	-
1992-090	2448977.97	1992 Dec 21 1121	Chang Zheng 2E	-	Y4	Optus B2	Optus B2	-	-	XSC	LC2	-	-	1035	-	-
1993-063	2449268.83	1993 Oct 8 0800	Chang Zheng 2C	-	Y11	FSW-1	FSW-1 No. 5 (14)	-	-	JQ	LA2B	-	-	3019	-	-
1993-S79	2448987.50	1993	Dong Feng 5A	-	- -	-	-	-	-	JQ	LA2B?	-	-	1000?	-	-
1994-010	2449391.86	1994 Feb 8 0833:53	Chang Zheng 3A	-	Y1	KF-1/SJ-4	shijian sihao	-	-	XSC	LC2	-	-	36153	-	-
1994-037	2449536.83	1994 Jul 3 0800	Chang Zheng 2D	a	Y2	FSW-2	FSW-2 No. 2	-	-	JQ	LA2B	-	-	557	-	-
1994-043	2449554.95	1994 Jul 21 1055	Chang Zheng 3	-	Y8	Apstar 1	APSTAR 1	-	-	XSC	LC3?	-	-	42436	-	-
1994-055	2449592.47	1994 Aug 27 2310	Chang Zheng 2E	-	Y5	Optus B3	Optus B3	-	-	XSC	LC2	-	-	39123	-	-
1994-080	2449686.21	1994 Nov 29 1702	Chang Zheng 3A	-	Y2	Zhongxing 6?	DFH-3	-	-	XSC	LC2	-	-	36064	-	-
1995-S91	2449717.50	1995	Dong Feng 5A	-	- -	-	-	-	-	TYSC	-	-	-	1000?	-	-
1995-F01	2449743.44	1995 Jan 25 2240	Chang Zheng 2E	-	Y6	Apstar 2	Apstar 2	-	-	XSC	LC2	-	-	1	-	-
1995-064	2450049.98	1995 Nov 28 1130:05	Chang Zheng 2E	-	Y7	Asiasat 2	Asiasat 2	-	-	XSC	LC2	-	-	36554	-	-
1995-073	2450079.99	1995 Dec 28 1150	Chang Zheng 2E	-	Y8	Echostar 1	Echostar 1	-	-	XSC	LC2	-	-	36203	-	-
1996-F01	2450128.29	1996 Feb 14 1901	Chang Zheng 3B	-	Y1	Intelsat 708	INTELSAT 708	-	-	XSC	LC2	-	-	1	-	-
1996-039	2450267.95	1996 Jul 3 1047	Chang Zheng 3	-	Y10A	Apstar 1A	Apstar 1A	-	-	XSC	LC3?	-	-	46560	-	-
1996-048	2450313.94	1996 Aug 18 1027	Chang Zheng 3	-	Y14	Zhongxing 7	Zhongxing 7	-	-	XSC	LC3?	-	-	47297	-	-
1996-059	2450376.81	1996 Oct 20 0720	Chang Zheng 2D	a	Y3	FSW-2	FSW-2 No. 3	-	-	JQ	LA2B	-	-	466	-	-
1997-S79	2450448.50	1997	Dong Feng 5A	-	- -	-	-	-	-	TYSC	-	-	-	1000?	-	-
1997-021	2450580.18	1997 May 11 1617	Chang Zheng 3A	-	Y3?	Zhongxing 6	DFH-3	-	-	XSC	LC2	-	-	35998	-	-
1997-029	2450610.00	1997 Jun 10 1201	Chang Zheng 3	-	Y11	Feng Yun 2	Feng Yun Er Jia	-	-	XSC	LC3?	-	-	37660	-	-
1997-042	2450680.24	1997 Aug 19 1750	Chang Zheng 3B	-	Y2	Agila 2	Mabuhay	-	-	XSC	LC2	-	-	50496	-	-
1997-048	2450693.08	1997 Sep 1 1400:15	Chang Zheng 2C-III/SD	-	Y1	Iridium MFS	Iridium MFS 1	-	-	TYSC	LC7	-	-	896	-	-
1997-062	2450738.30	1997 Oct 16 1913	Chang Zheng 3B	-	Y3	Apstar 2R	Apstar 2R	-	-	XSC	LC2	-	-	47677	-	-
1997-077	2450790.80	1997 Dec 8 0716:49	Chang Zheng 2C-III/SD	-	Y2	Iridium 42/44	Iridium SV042	-	-	TYSC	LC7	-	-	940	-	-
1998-018	2450898.21	1998 Mar 25 1701:06	Chang Zheng 2C-III/SD	-	Y3	Iridium 51/61	Iridium SV051	-	-	TYSC	LC7	-	-	850	-	-
1998-026	2450935.89	1998 May 2 0916:53	Chang Zheng 2C-III/SD	-	Y4	Iridium 69/71	Iridium SV069	-	-	TYSC	LC7	-	-	831	-	-
1998-033	2450963.92	1998 May 30 1000:04	Chang Zheng 3B	-	Y5	Zhongwei 1	Chinastar 1	-	-	XSC	LC2	-	-	89459	-	-
1998-044	2451012.89	1998 Jul 18 0920	Chang Zheng 3B	-	Y4	Sinosat	xinnuo yihao	-	-	XSC	LC2	-	-	36165	-	-
1998-048	2451045.46	1998 Aug 19 2301:46	Chang Zheng 2C-III/SD	-	Y5	Iridium 78/76	Iridium SV078	-	-	TYSC	LC7	-	-	819	-	-
1998-074	2451166.99	1998 Dec 19 1139:44	Chang Zheng 2C-III/SD	-	Y6	Iridium 88/89	Iridium SV088?	-	-	TYSC	LC7	-	-	818	-	-
1999-025	2451308.56	1999 May 10 0133:00	Chang Zheng 4B	-	Y2	FY-1C/SJ-5	Feng Yun Yi Beng	-	-	TYSC	LC7	-	-	884	-	-
1999-032	2451341.22	1999 Jun 11 1715:33	Chang Zheng 2C-III/SD	-	Y7	Iridium 14A/21A	Iridium SV092	-	-	TYSC	LC7	-	-	1120	-	-
1999-057	2451465.64	1999 Oct 14 0315	Chang Zheng 4B	-	Y1	ZY-1/SACI-1	ZY-1/CBERS 1	-	-	TYSC	LC7	-	-	865	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-061	2451502.44	1999 Nov 19 2230:04	Chang Zheng 2F	-	Y1	Shenzhou	Shenzhou 1 Fanhui Cang	-	-	JQ	LC921	-	-	507	-	-
2000-003	2451569.20	2000 Jan 25 1645:05	Chang Zheng 3A	-	Y4	Zhongxing-22	Feng Huo 1	-	-	XSC	LC2	-	-	42266	-	-
2000-032	2451720.99	2000 Jun 25 1150	Chang Zheng 3	-	Y12	Feng Yun 2	Feng Yun Er Yi	-	-	XSC	LC3?	-	-	35997	-	-
2000-050	2451788.64	2000 Sep 1 0325	Chang Zheng 4B	-	Y3	ZY-2	ziyuan erhao 01 xing	-	-	TYSC	LC7	-	-	501	-	-
2000-069	2451848.17	2000 Oct 30 1602	Chang Zheng 3A	-	Y5?	Beidou	yi ke beidou daohang s.w	-	-	XSC	LC2	-	-	41922	-	-
2000-082	2451899.18	2000 Dec 20 1620	Chang Zheng 3A	-	Y6?	Beidou	er ke beidou daohang s.w	-	-	XSC	LC2	-	-	41870	-	-
2001-001	2451919.21	2001 Jan 9 1700:03	Chang Zheng 2F	-	Y2	Shenzhou 2	Shenzhou 2 Fanhui Cang	-	-	JQ	LC921	-	-	405	-	-
2002-S85	2452274.50	2002	Dong Feng 5A	-	- -	-	-	-	-	TYSC	-	-	-	1000?	-	-
2002-014	2452359.09	2002 Mar 25 1415:04	Chang Zheng 2F	-	Y3	Shenzhou 3	Shenzhou 3 Fanhui Cang	-	-	JQ	LC921	-	-	388	-	-
2002-024	2452409.58	2002 May 15 0150	Chang Zheng 4B	-	Y5	FY-1D/HY-1	haiyang yihao A	-	-	TYSC	LC7	-	-	1221	-	-
2002-049	2452574.64	2002 Oct 27 0317	Chang Zheng 4B	-	Y6	ZY-2	ziyuan erhao 02 xing	-	-	TYSC	LC7	-	-	683	-	-
2002-061	2452638.19	2002 Dec 29 1640:04	Chang Zheng 2F	-	Y4	Shenzhou 4	Shenzhou 4 Fanhui Cang	-	-	JQ	LC921	-	-	381	-	-
2003-021	2452784.19	2003 May 24 1634:04	Chang Zheng 3A	-	Y7	Beidou	san ke beidou daohang s.	-	-	XSC	LC2	-	-	41981	-	-
2003-045	2452927.54	2003 Oct 15 0100:03	Chang Zheng 2F	-	Y5	Shenzhou 5	Shenzhou 5 Fanhui Cang	-	-	JQ	LC921	-	-	524	-	-
2003-049	2452933.64	2003 Oct 21 0316	Chang Zheng 4B	-	Y4	CBERS-2	ZY-1-2	-	-	TYSC	LC7	-	-	1073	-	-
2003-051	2452946.81	2003 Nov 3 0720:04	Chang Zheng 2D	-	Y4	JB-4?	FSW Service Module	-	-	JQ	LC603	-	-	422	-	-
2003-052	2452958.17	2003 Nov 14 1601	Chang Zheng 3A	-	Y8	Zhongxing-20	Shentong yi hao 01 xing	-	-	XSC	LC2	-	-	41934	-	-
2003-061	2453003.30	2003 Dec 29 1906:18	Chang Zheng 2C	SM	Y1	TC-1	Double Star DSP-E	-	-	XSC	LC3	-	-	79886	-	-
2004-012	2453114.17	2004 Apr 18 1559:04	Chang Zheng 2C	a	Y14	Shiyan-1/NX-1	Shiyan 1	-	-	XSC	LC3	-	-	858	-	-
2004-029	2453211.80	2004 Jul 25 0705	Chang Zheng 2C	SM	Y2	TC-2	Double Star DSP-P	-	-	TYSC	LC7	-	-	38948	-	-
2004-033	2453246.83	2004 Aug 29 0750:05	Chang Zheng 2C	b	Y12	FSW 19	FSW-3?	-	-	JQ	LC603	-	-	623	-	-
2004-035	2453257.47	2004 Sep 8 2314	Chang Zheng 4B	-	Y7	SJ-6A/SJ-6B	shijian liuhao B xing	-	-	TYSC	LC7	-	-	913	-	-
2004-039	2453275.83	2004 Sep 27 0800:04	Chang Zheng 2D	-	Y5	FSW 20	FSW-3?	-	-	JQ	LC603	-	-	324	-	-
2004-042	2453297.56	2004 Oct 19 0120:05	Chang Zheng 3A	-	Y9	FY-2C	FY-2 04	-	-	XSC	LC2	-	-	40361	-	-
2004-044	2453315.63	2004 Nov 6 0310	Chang Zheng 4B	-	Y8	ZY-2C	ziyuan erhao 03 xing	-	-	TYSC	LC7	-	-	829	-	-
2004-046	2453327.95	2004 Nov 18 1045	Chang Zheng 2C	a	Y15	SW-2	Shiyan 2	-	-	XSC	LC3	-	-	920	-	-
2005-012	2453473.00	2005 Apr 12 1200	Chang Zheng 3B	-	Y6	Apstar 6	Apstar 6	-	-	XSC	LC2	-	-	49632	-	-
2005-024	2453557.44	2005 Jul 5 2240	Chang Zheng 2D	-	Y6	SJ-7	Tansuo-2	-	-	JQ	LC603	-	-	864	-	-
2005-027	2453584.81	2005 Aug 2 0730:03	Chang Zheng 2C	b	Y13	FSW 21	FSW-3?	-	-	JQ	LC603	-	-	704	-	-
2005-033	2453611.86	2005 Aug 29 0845:04	Chang Zheng 2D	-	Y7	FSW 22	FSW-3?	-	-	JQ	LC603	-	-	326	-	-
2005-040	2453655.54	2005 Oct 12 0100:04	Chang Zheng 2F	-	Y6	Shenzhou 6	Shenzhou 6 Fanhui Cang	-	-	JQ	LC921	-	-	505	-	-
2006-015	2453852.45	2006 Apr 26 2248	Chang Zheng 4C	-	Y1	Yaogan 1	yaogan weixing yihao	-	-	TYSC	LC7	-	-	903	-	-
2006-035	2453987.79	2006 Sep 9 0700:04	Chang Zheng 2C	b	Y16	SJ-8	shijian bahao yuzhong we	-	-	JQ	LC603	-	-	675	-	-
2006-038	2453991.17	2006 Sep 12 1602	Chang Zheng 3A	-	Y10	ZX-22A	Feng Huo 2?	-	-	XSC	LC2	-	-	41995	-	-
2006-046	2454032.48	2006 Oct 23 2334	Chang Zheng 4B	-	Y16	SJ-6-2A/SJ-6-2B	shijian liuhao er zu B x	-	-	TYSC	LC7	-	-	936	-	-
2006-048	2454037.18	2006 Oct 28 1620	Chang Zheng 3B	-	Y7	Xinnuo-2	xinnuo erhao	-	-	XSC	LC2	-	-	38199	-	-
2006-053	2454077.54	2006 Dec 8 0053	Chang Zheng 3A	-	Y11	FY-2D	fengyun erhao D xing	-	-	XSC	LC2	-	-	43072	-	-
2007-003	2454134.19	2007 Feb 2 1628	Chang Zheng 3A	-	Y12	Beidou 4	di si ke beidou daohang	-	-	XSC	LC2	-	-	41925	-	-
2007-010	2454201.64	2007 Apr 11 0327	Chang Zheng 2C	b	Y18	HY-1B	haiyang yihao B	-	-	TYSC	LC7	-	-	874	-	-
2007-011	2454204.34	2007 Apr 13 2011	Chang Zheng 3A	-	Y13	Beidou 2A	yi ke beidou daohang wei	-	-	XSC	LC3	-	-	22466	-	-
2007-018	2454234.17	2007 May 13 1601:02	Chang Zheng 3B	G2	Y9	Nigcomsat 1	Nigcomsat 1	-	-	XSC	LC2?	-	-	41926	-	-
2007-019	2454245.80	2007 May 25 0712	Chang Zheng 2D	-	Y8	Yaogan 2	yaogan weixing erhao	-	-	JQ	LC603	-	-	998	-	-
2007-021	2454252.17	2007 May 31 1608	Chang Zheng 3A	-	Y15	Xinnuo 3	xinnuo sanhao	-	-	XSC	LC3?	-	-	42055	-	-
2007-031	2454287.01	2007 Jul 5 1208	Chang Zheng 3B	-	Y10	Zhongxing 6B	zhongxing liu B weixing	-	-	XSC	LC2	-	-	49722	-	-
2007-042	2454362.64	2007 Sep 19 0326:13	Chang Zheng 4B	-	Y17	CBERS-2B	ziyuan yihao 02B weixing	-	-	TYSC	LC7	-	-	873	-	-
2007-051	2454397.92	2007 Oct 24 1005:04	Chang Zheng 3A	-	Y14	Chang'e-1	chang'e yihao weixing	-	-	XSC	LC3	-	-	150000	-	-
2007-055	2454416.45	2007 Nov 11 2248:15	Chang Zheng 4C	-	Y3	Yaogan 3	yaogan weixing sanhao	-	-	TYSC	LC7	-	-	1009	-	-
2008-019	2454582.15	2008 Apr 25 1535:11	Chang Zheng 3C	-	Y1?	Tian Lian 1	tianlian yihao 01 xing	-	-	XSC	LC2?	-	-	41845	-	-
2008-026	2454613.63	2008 May 27 0302:33	Chang Zheng 4C	-	Y2	FY-3A	fengyun sanhao 01 xing	-	-	TYSC	LC7	-	-	1184	-	-
2008-028	2454627.01	2008 Jun 9 1215:04	Chang Zheng 3B	-	Y11	Zhongxing-9	zhongxing jiuhao	-	-	XSC	LC2?	-	-	49592	-	-
2008-041	2454715.64	2008 Sep 6 0325:07	Chang Zheng 2C	SMA	Y1	HJ-1A/HJ-1B	huanjing jian zai A xing	-	-	TYSC	LC7	-	-	886	-	-
2008-047	2454735.05	2008 Sep 25 1310:05	Chang Zheng 2F	-	Y7	Shenzhou 7	shenzhou qihao fanhui ca	-	-	JQ	LC921	-	-	503	-	-
2008-053	2454764.55	2008 Oct 25 0115:04	Chang Zheng 4B	-	Y22	SJ-6-3A/SJ-6-3B	shijian liuhao san zu B	-	-	TYSC	LC9	-	-	898	-	-
2008-055	2454769.20	2008 Oct 29 1653:43	Chang Zheng 3B	G2	Y12	Venesat-1	Venesat	-	-	XSC	LC2	-	-	41787	-	-
2008-056	2454775.51	2008 Nov 5 0015:04	Chang Zheng 2D	-	Y12	SW-3/CX-1-02	shiyan weixing sanhao	-	-	JQ	LC603	-	-	1076	-	-
2008-061	2454801.70	2008 Dec 1 0442:04	Chang Zheng 2D	-	Y9	Yaogan 4	yaogan weixing sihao	-	-	JQ	LC603	-	-	1049	-	-
2008-064	2454815.64	2008 Dec 15 0322:04	Chang Zheng 4B	-	Y20	Yaogan 5	yaogan weixing wuhao	-	-	TYSC	LC9	-	-	859	-	-
2008-066	2454823.54	2008 Dec 23 0054:04	Chang Zheng 3A	-	Y20	FY-2-06	fengyun erhao 06 xing	-	-	XSC	LC3?	-	-	36944	-	-
2009-018	2454936.18	2009 Apr 14 1616:04	Chang Zheng 3C	-	Y3	Beidou DW2	er ke beidou daohang wei	-	-	XSC	LC2?	-	-	38885	-	-
2009-021	2454943.62	2009 Apr 22 0255:04	Chang Zheng 2C	b	Y19	Yaogan 6	yaogan weixing liuhao	-	-	TYSC	LC7?	-	-	663	-	-
2009-046	2455074.89	2009 Aug 31 0928	Chang Zheng 3B	-	Y8	Palapa D	Palapa D	-	-	XSC	LC2?	-	-	36321	-	-
2009-061	2455147.62	2009 Nov 12 0245:44	Chang Zheng 2C	b	Y21	SJ-11-01	shijian shi yihao 01 xin	-	-	JQ	LC603	-	-	935	-	-
2009-069	2455174.86	2009 Dec 9 0842	Chang Zheng 2D	-	Y10	Yaogan 7	yaogan weixing qihao	-	-	JQ	LC603	-	-	1051	-	-
2009-072	2455180.60	2009 Dec 15 0231:05	Chang Zheng 4C	-	Y4	Yaogan 8	yaogan weixing bahao	-	-	TYSC	LC9?	-	-	1414	-	-
2010-S87	2455196.50	2010	Chang Zheng 2C	?	-	-	Reentry test	-	-	TYSC	LC9	-	-	-	-	-
2010-001	2455213.18	2010 Jan 16 1612:04	Chang Zheng 3C	-	Y2	Beidou DW 3	di san ke beidou daohang	-	-	XSC	LC2	-	-	35972	-	-
2010-009	2455260.70	2010 Mar 5 0455:05	Chang Zheng 4C	-	Y5	Yaogan 9	yaogan weixing jiuhao	-	-	JQ	LC603	-	-	1425	-	-
2010-024	2455350.16	2010 Jun 2 1553:04	Chang Zheng 3C	-	Y4	Beidou DW4	di si ke beidou daohang	-	-	XSC	LC2	-	-	36184	-	-
2010-027	2455362.57	2010 Jun 15 0139:04	Chang Zheng 2D	-	Y15	SJ-12	shijian shi erhao weixin	-	-	JQ	LC603	-	-	907	-	-
2010-036	2455409.40	2010 Jul 31 2130:04	Chang Zheng 3A	-	Y16	Beidou DW5	diwu ke beidou daohang w	-	-	XSC	LC3	-	-	36288	-	-
2010-038	2455418.45	2010 Aug 9 2249:05	Chang Zheng 4C	-	Y6	Yaogan 10	yaogan weixing shihao	-	-	TYSC	LC9	-	-	917	-	-
2010-040	2455432.80	2010 Aug 24 0710:04	Chang Zheng 2D	-	Y14	Tianhui 1-01	tianhui yi hao weixing	-	-	JQ	LC603	-	-	805	-	-
2010-042	2455444.18	2010 Sep 4 1614:04	Chang Zheng 3B	G2	Y13	Zhongxing 6A	zhongxing liu A weixing	-	-	XSC	LC2	-	-	41971	-	-
2010-047	2455461.61	2010 Sep 22 0242:04	Chang Zheng 2D	-	Y11	Yaogan 11	yaogan weixing shi yihao	-	-	JQ	LC603	-	-	972	-	-
2010-050	2455470.96	2010 Oct 1 1059:57	Chang Zheng 3C	-	Y7	Chang'e-2	chang'e erhao weixing	-	-	XSC	LC2	-	-	150000	-	-
2010-051	2455475.53	2010 Oct 6 0049:05	Chang Zheng 4B	-	Y23	SJ-6-4A/B	shijian liuhao 4 zu B xi	-	-	TYSC	LC9	-	-	905	-	-
2010-057	2455501.18	2010 Oct 31 1626:04	Chang Zheng 3C	-	Y5	Beidou DW6	di liu ke beidou daohang	-	-	XSC	LC2	-	-	35998	-	-
2010-059	2455505.28	2010 Nov 4 1837:12	Chang Zheng 4C	-	Y7	FY-3B	fengyun sanhao 01 B xing	-	-	TYSC	LC9	-	-	1211	-	-
2010-064	2455525.17	2010 Nov 24 1609:04	Chang Zheng 3A	-	Y21	Zhongxing 20A	Shentong yi hao 02 xing	-	-	XSC	LC3	-	-	41852	-	-
2010-068	2455548.35	2010 Dec 17 2020:04	Chang Zheng 3A	-	Y18	Beidou DW7	diqi ke beidou daohang w	-	-	XSC	LC3	-	-	36188	-	-
2011-S75	2455561.50	2011	Chang Zheng 2C	?	-	-	Reentry test	-	-	TYSC	LC9	-	-	-	-	-
2011-013	2455661.37	2011 Apr 9 2047:04	Chang Zheng 3A	-	Y19	Beidou DW8	diba ke beidou daohang w	-	-	XSC	LC3	-	-	36042	-	-
2011-026	2455733.18	2011 Jun 20 1613:04	Chang Zheng 3B	G2	Y20	Zhongxing 10	zhongxing shi hao weixin	-	-	XSC	LC2	-	-	42136	-	-
2011-030	2455748.69	2011 Jul 6 0428:04	Chang Zheng 2C	b	Y25	SJ-11-03	shijian shi yihao 03 xin	-	-	JQ	LC603	-	-	955	-	-
2011-032	2455754.15	2011 Jul 11 1541:04	Chang Zheng 3C	-	Y8	Tian Lian 1-02	tianlian yihao 02 xing	-	-	XSC	LC2	-	-	42290	-	-
2011-038	2455769.41	2011 Jul 26 2144:28	Chang Zheng 3A	-	Y17	Beidou DW9	di jiu ke beidou daohang	-	-	XSC	LC3	-	-	36207	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-039	2455771.82	2011 Jul 29 0742:03	Chang Zheng 2C	b	Y24	SJ-11-02	shijian shi yihao 02 xin	-	-	JQ	LC603	-	-	941	-	-
2011-042	2455785.18	2011 Aug 11 1615:04	Chang Zheng 3B	G2	Y19	Paksat-1R	Paksat 1R	-	-	XSC	LC2	-	-	41879	-	-
2011-043	2455789.46	2011 Aug 15 2257:19	Chang Zheng 4B	-	Y14	Haiyang-2	Haiyang er hao	-	-	TYSC	LC9	-	-	1310	-	-
2011-F02	2455791.89	2011 Aug 18 0928:03	Chang Zheng 2C	b	Y26	SJ-11-04	shijian shi yihao 04 xin	-	-	JQ	LC603	-	-	150?	-	-
2011-047	2455823.19	2011 Sep 18 1633:03	Chang Zheng 3B	G3	Y16	Zhongxing 1A	Fenghuo 2	-	-	XSC	LC2	-	-	35841	-	-
2011-053	2455834.05	2011 Sep 29 1316:03	Chang Zheng 2F	T	Y1	Tiangong 1	Tiangong 1	-	-	JQ	LC921	-	-	544	-	-
2011-057	2455841.85	2011 Oct 7 0821:04	Chang Zheng 3B	G2	Y18	Eutelsat W3C	Eutelsat W3C	-	-	XSC	LC2	-	-	36212	-	-
2011-063	2455866.42	2011 Oct 31 2158:10	Chang Zheng 2F	G	Y8	Shenzhou 8	shenzhou ba fanhui cang	-	-	JQ	LC921	-	-	494	-	-
2011-066	2455874.64	2011 Nov 9 0321:05	Chang Zheng 4B	-	Y21	Yaogan 12	tianxun yihao	-	-	TYSC	LC9	-	-	847	-	-
2011-068	2455885.51	2011 Nov 20 0015:04	Chang Zheng 2D	-	Y19	SW-4/CX-1-03	chuangxin yihao 03 xing	-	-	JQ	LC603	-	-	1085	-	-
2011-072	2455895.28	2011 Nov 29 1850:04	Chang Zheng 2C	b	Y20	Yaogan 13	yaogan weixing shisan ha	-	-	TYSC	LC9	-	-	665	-	-
2011-073	2455897.38	2011 Dec 1 2107:04	Chang Zheng 3A	-	Y23	Beidou DW10	di shi ke beidou daohang	-	-	XSC	LC3	-	-	36152	-	-
2011-077	2455915.20	2011 Dec 19 1641:03	Chang Zheng 3B	G2	Y21	Nigcomsat 1R	Nigcomsat 1R	-	-	XSC	LC2	-	-	41828	-	-
2011-079	2455917.64	2011 Dec 22 0326:14	Chang Zheng 4B	-	Y15	ZY-1 02C	ziyuan yihao 02C weixing	-	-	TYSC	LC9	-	-	882	-	-
2012-S97	2455926.50	2012	Chang Zheng 2C	?	-	-	Reentry test	-	-	TYSC	LC9	-	-	-	-	-
2012-001	2455935.64	2012 Jan 9 0317:10	Chang Zheng 4B	-	Y26	ZY-3	ziyuan san hao	-	-	TYSC	LC9	-	-	850	-	-
2012-002	2455939.54	2012 Jan 13 0056:04	Chang Zheng 3A	-	Y22	FY-2F	fengyun erhao 07 xing	-	-	XSC	LC3	-	-	37066	-	-
2012-008	2455982.18	2012 Feb 24 1612:04	Chang Zheng 3C	-	Y6	Beidou DW11	di shiyi ke beidou d.w.	-	-	XSC	LC2?	-	-	36065	-	-
2012-013	2456017.94	2012 Mar 31 1027:04	Chang Zheng 3B	G2	Y22	Apstar 7	Apstar7	-	-	XSC	LC2	-	-	50126	-	-
2012-018	2456047.37	2012 Apr 29 2050:03	Chang Zheng 3B	G1	Y14	Beidou DW12/13	di shier ke beidou-2 w.	-	-	XSC	LC2	-	-	21755	-	-
2012-020	2456053.80	2012 May 6 0710:05	Chang Zheng 2D	-	Y17	Tianhui 1-02	tianhui yi hao 02 xing	-	-	JQ	LC603	-	-	851	-	-
2012-021	2456057.80	2012 May 10 0706:04	Chang Zheng 4B	-	Y12	Yaogan 14	yaogan weixing shisi hao	-	-	TYSC	LC9	-	-	732	-	-
2012-028	2456074.16	2012 May 26 1556:04	Chang Zheng 3B	G3	Y17	Zhongxing 2A	Shentong-2?	-	-	XSC	LC2	-	-	35831	-	-
2012-029	2456076.81	2012 May 29 0731:05	Chang Zheng 4C	-	Y10	Yaogan 15	yaogan weixing shiwuhao	-	-	TYSC	LC9	-	-	1340	-	-
2012-032	2456094.94	2012 Jun 16 1037:25	Chang Zheng 2F	G	Y9	Shenzhou 9	shenzhou jiu fanhui cang	-	-	JQ	LC921	-	-	498	-	-
2012-040	2456134.15	2012 Jul 25 1543:04	Chang Zheng 3C	-	Y9	Tian Lian-1-03	tianlian yihao 03 xing	-	-	XSC	LC2	-	-	42663	-	-
2012-S50	2456159.50	2012 Aug 20	Dong Feng 5A	-	-	-	-	-	-	TYSC	-	-	-	1000?	-	-
2012-050	2456189.30	2012 Sep 18 1910:04	Chang Zheng 3B	G1	Y15	Beidou DW14/15	14 ke beidou daohang wei	-	-	XSC	LC2	-	-	21674	-	-
2012-052	2456199.68	2012 Sep 29 0412:05	Chang Zheng 2D	-	Y16	VRSS-1	VRSS-1	-	-	JQ	LC603	-	-	984	-	-
2012-056	2456214.64	2012 Oct 14 0325:05	Chang Zheng 2C	SMA	Y2	SJ-9A/B	shi jian liuhao A weixin	-	-	TYSC	LC9	-	-	891	-	-
2012-059	2456226.15	2012 Oct 25 1533:04	Chang Zheng 3C	-	Y10	Beidou DW16	di 16 ke beidou d.weixin	-	-	XSC	LC2	-	-	35902	-	-
2012-064	2456250.45	2012 Nov 18 2253:05	Chang Zheng 2C	b	Y17	HJ-1C	huan jing yihao C weixin	-	-	TYSC	LC9	-	-	743	-	-
2012-066	2456256.67	2012 Nov 25 0406:04	Chang Zheng 4C	-	Y9	Yaogan 16	yaogan weixing shiliu ha	-	-	JQ	LC603 ?	-	-	1364	-	-
2012-067	2456258.93	2012 Nov 27 1013:03	Chang Zheng 3B	G2	Y24	Zhongxing 12	zhongxing shier hao weix	-	-	XSC	LC2	-	-	50233	-	-
2012-073	2456280.18	2012 Dec 18 1613:05	Chang Zheng 2D	-	Y22	Gokturk-2	GK-2	-	-	JQ	LC603 ?	-	-	697	-	-
2013-018	2456408.68	2013 Apr 26 0413	Chang Zheng 2D	-	Y18	GaoFen 1	GF-1	-	-	JQ	LC603 ?	-	-	664	-	-
2013-020	2456414.17	2013 May 1 1606:04	Chang Zheng 3B	G2	Y25	Zhongxing-11	ZX-11	-	-	XSC	LC2	-	-	43086	-	-
2013-029	2456454.90	2013 Jun 11 0938:03	Chang Zheng 2F	G	Y10	Shenzhou 10	-	-	-	JQ	LC921	-	-	519	-	-
2013-035	2456488.89	2013 Jul 15 0927:03	Chang Zheng 2C	b	Y23	SJ-11-05	SJ11-05	-	-	JQ	LC603 ?	-	-	965	-	-
2013-037	2456493.48	2013 Jul 19 2337:56	Chang Zheng 4C	-	Y11	SJ-15/CX-3/SY-7	SJ-15/CX-3/SY-7	-	-	TYSC	LC9	-	-	1055	-	-
2013-046	2456537.30	2013 Sep 1 1916	Chang Zheng 4C	-	Y13	Yaogan 17	YW-17	-	-	JQ	LC603	-	-	1347	-	-
2013-052	2456558.63	2013 Sep 23 0307:17	Chang Zheng 4C	-	Y12	Fengyun 3-3	san ke fengyun san hao	-	-	TYSC	LC9	-	-	1167	-	-
2013-057	2456590.66	2013 Oct 25 0350	Chang Zheng 4B	-	Y25	SJ-16	SJ-16	-	-	JQ	LC603	-	-	944	-	-
2013-059	2456594.62	2013 Oct 29 0250	Chang Zheng 2C	b	Y28	Yaogan 18	YW18	-	-	TYSC	LC9	-	-	656	-	-
2013-065	2456616.65	2013 Nov 20 0331:05	Chang Zheng 4C	-	Y14	Yaogan 19	yaogan weixing 19	-	-	TYSC	LC9	-	-	1297	-	-
2013-068	2456621.59	2013 Nov 25 0212	Chang Zheng 2D	-	Y23	Shiyan 5	SW5	-	-	JQ	LC603	-	-	856	-	-
2013-070	2456628.23	2013 Dec 1 1730:00	Chang Zheng 3B	G2	Y23	Chang'e 3	CE-3	-	-	XSC	LC2	-	-	150000	-	-
2013-F03	2456635.64	2013 Dec 9 0326	Chang Zheng 4B	-	Y10	CBERS 3	CBERS 3	-	-	TYSC	LC9	-	-	720?	-	-
2013-075	2456647.20	2013 Dec 20 1642:04	Chang Zheng 3B	G2	Y27	Tupac Katari	TKSat-1	-	-	XSC	LC2	-	-	43903	-	-
2014-A04	2456666.50	2014 Jan 9	Chang Zheng 2C	?	Hypersonic test	[WU-14]	DF-ZF Hypersonic RV	-	-	TYSC	LC7?	-	-	40?	-	-
2014-014	2456747.62	2014 Mar 31 0246:03	Chang Zheng 2C	b	Y27	SJ-11-06	SJ-11-06	-	-	JQ	LC603 ?	-	-	960	-	-
2014-A12	2456876.50	2014 Aug 7	Chang Zheng 2C	?	Hypersonic test	[WU-14]	Hypersonic RV	-	-	TYSC	LC7?	-	-	40?	-	-
2014-047	2456878.74	2014 Aug 9 0545:03	Chang Zheng 4C	-	Y15	Yaogan 20	YW20	-	-	JQ	LC603	-	-	1318	-	-
2014-049	2456888.64	2014 Aug 19 0315:04	Chang Zheng 4B	-	Y27	Gaofen 2	GF-2	-	-	TYSC	LC9	-	-	636	-	-
2014-051	2456904.51	2014 Sep 4 0015:04	Chang Zheng 2D	-	Y25	CX-1-04/LQ	CX-1-04/LQ	-	-	JQ	LC603	-	-	837	-	-
2014-053	2456908.64	2014 Sep 8 0322:05	Chang Zheng 4B	-	Y28	Yaogan 21	YG-21/TT-1 No. 2	-	-	TYSC	LC9	-	-	502	-	-
2014-059	2456928.72	2014 Sep 28 0513	Chang Zheng 2C	b	Y31	SJ-11-07	SJ-11-07	-	-	JQ	LC603 ?	-	-	978	-	-
2014-063	2456950.77	2014 Oct 20 0631	Chang Zheng 4C	-	Y16	Yaogan 22	YG-22	-	-	TYSC	LC9	-	-	1208	-	-
2014-065	2456954.25	2014 Oct 23 1800:04	Chang Zheng 3C	G2	Y12	CE-5T1	CE5-T1	-	-	XSC	LC2	-	-	150000	-	-
2014-066	2456957.79	2014 Oct 27 0659:03	Chang Zheng 2C	b	Y32	SJ-11-08	SJ-11-08	-	-	JQ	LC603 ?	-	-	971	-	-
2014-071	2456976.29	2014 Nov 14 1853:05	Chang Zheng 2C	b	Y35	Yaogan 23	YG-23	-	-	TYSC	LC9	-	-	662	-	-
2014-072	2456981.80	2014 Nov 20 0712:04	Chang Zheng 2D	-	Y24	Yaogan 24	YG-24	-	-	JQ	LC603 ?	-	-	653	-	-
2014-A40	2456993.50	2014 Dec 2	Chang Zheng 2C	?	Hypersonic test	[WU-14]	Hypersonic RV	-	-	TYSC	LC7?	-	-	40?	-	-
2014-079	2456998.64	2014 Dec 7 0326:04	Chang Zheng 4B	-	Y32	CBERS 4	ZY1-4	-	-	TYSC	LC9	-	-	776	-	-
2014-080	2457002.31	2014 Dec 10 1933:04	Chang Zheng 4C	-	Y17	Yaogan 25	YG-25	-	-	JQ	LC603	-	-	1304	-	-
2014-088	2457018.64	2014 Dec 27 0322:04	Chang Zheng 4B	-	Y29	Yaogan 26	YG-26	-	-	TYSC	LC9	-	-	499	-	-
2014-090	2457022.54	2014 Dec 31 0102:04	Chang Zheng 3A	-	Y24	FY-2-08	FY-2-08	-	-	XSC	LC2?	-	-	38236	-	-
2015-019	2457112.08	2015 Mar 30 1352:31	Chang Zheng 3C/YZ-1	-	Y11	Beidou DW17	Beidou I1-S	-	-	XSC	LC2	-	-	150000	-	-
2015-A08	2457180.50	2015 Jun 7	Chang Zheng 2C	?	Hypersonic test	[WU-14]	Hypersonic RV	-	-	TYSC	LC7?	-	-	40?	-	-
2015-030	2457199.77	2015 Jun 26 0622:04	Chang Zheng 4B	-	Y30	Gaofen 8	GF-8	-	-	TYSC	LC9	-	-	504	-	-
2015-037	2457229.02	2015 Jul 25 1229	Chang Zheng 3B/YZ-1	G3Z	Y26	Beidou 18/19	Beidou M1S?M2S	-	-	XSC	LC2	-	-	28039	-	-
2015-A14	2457254.50	2015 Aug 20	Chang Zheng 2C	?	Hypersonic test	[WU-14]	Hypersonic RV	-	-	TYSC	LC7?	-	-	40?	-	-
2015-040	2457261.61	2015 Aug 27 0231:35	Chang Zheng 4C	-	Y18	Yaogan 27	YG-27	-	-	TYSC	LC9	-	-	1339	-	-
2015-046	2457278.15	2015 Sep 12 1542:04	Chang Zheng 3B	G2	Y32	Tongxing Jisshu Shiyan 1	TXJSSY-1	-	-	XSC	LC2	-	-	35854	-	-
2015-047	2457279.70	2015 Sep 14 0442	Chang Zheng 2D	-	Y21	Gaofen 9	GF-9	-	-	JQ	LC603	-	-	899	-	-
2015-049	2457285.46	2015 Sep 19 2301:14	Chang Zheng 6	-	Y1	Cluster	-	-	-	TYSC	LC16	-	-	543	-	-
2015-053	2457295.47	2015 Sep 29 2313	Chang Zheng 3B	G2	Y33	Beidou DW20	Beidou I2-S	-	-	XSC	LC3	-	-	37058	-	-
2015-057	2457302.68	2015 Oct 7 0413:05	Chang Zheng 2D	-	Y37	Jilin-1	Jilin-1	-	-	JQ	LC603	-	-	710	-	-
2015-059	2457312.18	2015 Oct 16 1616	Chang Zheng 3B	G2	Y36	Apstar-9	Apstar-9	-	-	XSC	LC2	-	-	41780	-	-
2015-061	2457321.80	2015 Oct 26 0710	Chang Zheng 2D	-	Y26	Tianhui 1-03	tianhui yi hao 03 xing	-	-	JQ	LC603	-	-	844	-	-
2015-063	2457330.18	2015 Nov 3 1625:04	Chang Zheng 3B	G3	Y34	Zhongxing 2C	zhongxing er hao C xing	-	-	XSC	LC3	-	-	37120	-	-
2015-064	2457334.80	2015 Nov 8 0706:04	Chang Zheng 4B	-	Y24	Yaogan 28	YG-28	-	-	TYSC	LC9	-	-	799	-	-
2015-067	2457347.17	2015 Nov 20 1607:04	Chang Zheng 3B	G2	Y38	Laosat 1	Laosat 1	-	-	XSC	LC2	-	-	41892	-	-
2015-A21	2457349.54	2015 Nov 23 0100?	Chang Zheng 2C	?	Hypersonic test	[WU-14]	Hypersonic RV	-	-	TYSC	-	-	-	40?	-	-
2015-069	2457353.39	2015 Nov 26 2124:05	Chang Zheng 4C	-	Y8	Yaogan 29	YG-29	-	-	TYSC	LC9	-	-	829	-	-
2015-073	2457366.20	2015 Dec 9 1646	Chang Zheng 3B	G3	Y31	Zhongxing 1C	zhongxing yi hao C xing	-	-	XSC	LC3	-	-	35821	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-078	2457373.51	2015 Dec 17 0012:04	Chang Zheng 2D	-	Y31	Wukong	DAMPE	-	-	JQ	LC603	-	-	784	-	-
2015-083	2457385.17	2015 Dec 28 1604	Chang Zheng 3B	G2	Y37	Gaofen 4	gaofen si yao weixing	-	-	XSC	LC2	-	-	35832	-	-
2016-001	2457403.21	2016 Jan 15 1657	Chang Zheng 3B	G2	Y29	Belintersat-1	Belintersat-1	-	-	XSC	LC3	-	-	41781	-	-
2016-006	2457419.81	2016 Feb 1 0729	Chang Zheng 3C/YZ-1	-	Y14	Beidou DW21	Beidou M3-S	-	-	XSC	LC2?	-	-	28182	-	-
2016-021	2457477.34	2016 Mar 29 2011	Chang Zheng 3A	-	Y26	Beidou DW22	Beidou I3-S	-	-	XSC	LC2	-	-	35980	-	-
2016-023	2457484.23	2016 Apr 5 1738	Chang Zheng 2D	-	Y36	Shi Jian 10	SJ-10	-	-	JQ	LC603	-	-	601	-	-
2016-029	2457523.61	2016 May 15 0243	Chang Zheng 2D	-	Y27	Yaogan 30	YG30	-	-	JQ	LC603	-	-	1010	-	-
2016-033	2457538.64	2016 May 30 0317:04	Chang Zheng 4B	-	Y33	Ziyuan-3 02	ZY-3-02/Nusat-1,2	-	-	TYSC	LC9	-	-	791	-	-
2016-037	2457552.15	2016 Jun 12 1530	Chang Zheng 3C	G2?	Y15	Beidou DW23	Beidou G7	-	-	XSC	LC3	-	-	36341	-	-
2016-042	2457565.00	2016 Jun 25 1200	Chang Zheng 7/YZ-1A	-	Y1	Fanhui Cang	FC/Aoxiang	-	-	WEN	LC201	-	-	591	-	-
2016-043	2457568.64	2016 Jun 29 0321	Chang Zheng 4B	-	Y35	SJ-16-02	SJ-16-02	-	-	JQ	LC603	-	-	1012	-	-
2016-048	2457606.18	2016 Aug 5 1622	Chang Zheng 3B	G3	Y35	Tiantong-1	Tiantong-1	-	-	XSC	LC3	-	-	35903	-	-
2016-049	2457610.45	2016 Aug 9 2255	Chang Zheng 4C	-	Y19	Gaofen 3	Gaofen 3	-	-	TYSC	LC9	-	-	788	-	-
2016-051	2457616.24	2016 Aug 15 1740:04	Chang Zheng 2D	-	Y32	Mozi hao	QUESS	-	-	JQ	LC603	-	-	540	-	-
2016-F01	2457632.29	2016 Aug 31 1855:25	Chang Zheng 4C	-	Y22	Gaofen 10	Gaofen 10	-	-	TYSC	LC9	-	-	650?	-	-
2016-057	2457647.09	2016 Sep 15 1404:09	Chang Zheng 2F	T	T2	Tiangong 2	Tiangong 2	-	-	JQ	LC921	-	-	820	-	-
2016-061	2457678.48	2016 Oct 16 2330:31	Chang Zheng 2F	G	Y11	Shenzhou 11	Shenzhou 11	-	-	JQ	LC921	-	-	547	-	-
2016-068	2457704.47	2016 Nov 11 2314	Chang Zheng 2D	-	Y34	Yunhai-1 01	Yunhai-1 01	-	-	JQ	LC603	-	-	1114	-	-
2016-072	2457715.14	2016 Nov 22 1524:04	Chang Zheng 3C	G2	Y13	Tian Lian-1 04	tianlian yihao 04 xing	-	-	XSC	LC2	-	-	41779	-	-
2016-077	2457733.17	2016 Dec 10 1611	Chang Zheng 3B	G3	Y42	Fengyun 4-01	fengyun 4 01 xing	-	-	XSC	LC3	-	-	35832	-	-
2016-081	2457744.31	2016 Dec 21 1922:04	Chang Zheng 2D	-	Y33	Tan Weixing	TanSat	-	-	JQ	LC603	-	-	729	-	-
2016-083	2457750.64	2016 Dec 28 0323	Chang Zheng 2D	-	Y39	Gaojing-1 1/2	Superview 1/2	-	-	TYSC	LC9	-	-	548	-	-
2017-001	2457759.14	2017 Jan 5 1518:04	Chang Zheng 3B	G2	Y39	TJS 2	TJS 2	-	-	XSC	LC2	-	-	41394	-	-
2017-S05	2457768.50	2017 Jan 15	Dong Feng 5C	-	-	RV x 10	-	-	-	TYSC	-	-	-	1000?	2400?	Taklamakan
2017-018	2457855.96	2017 Apr 12 1104:04	Chang Zheng 3B	G2	Y43	SJ-13	Shi Jian 13	-	-	XSC	LC2	-	-	41743	-	-
2017-021	2457863.99	2017 Apr 20 1141:35	Chang Zheng 7	-	Y2	Tianzhou 1	Tianzhou 1	-	-	WEN	LC201	-	-	559	-	-
2017-034	2457919.62	2017 Jun 15 0300	Chang Zheng 4B	-	Y31	Huiyan	HXMT	-	-	JQ	LC603	-	-	894	-	-
2017-035	2457923.17	2017 Jun 18 1611	Chang Zheng 3B	G2	Y28	Zhongxing-9A	Zhongxing-9A	-	-	XSC	LC2	-	-	35958	-	-
2017-058	2458025.68	2017 Sep 29 0421:05	Chang Zheng 2C	b	Y29	Yaogan 30 01 zu	YG-30-01	-	-	XSC	LC3	-	-	678	-	-
2017-060	2458035.68	2017 Oct 9 0413:14	Chang Zheng 2D	-	Y30	VRSS-2	VRSS-2	-	-	JQ	LC603	-	-	675	-	-
2017-069	2458062.99	2017 Nov 5 1145	Chang Zheng 3B/YZ-1	G3Z	Y46	Beidou DW24/25	Beidou-3	-	-	XSC	LC3	-	-	22446	-	-
2017-072	2458072.27	2017 Nov 14 1835:55	Chang Zheng 4C	-	Y21	Fengyun 3 04	Fengyun 3 04	-	-	TYSC	LC9	-	-	1145	-	-
2017-074	2458078.70	2017 Nov 21 0450	Chang Zheng 6	-	Y2	Jilin-1 04-06	Jilin-1	-	-	TYSC	LC16	-	-	549	-	-
2017-075	2458082.26	2017 Nov 24 1810:05	Chang Zheng 2C	b	Y33	Yaogan 30 02 zu	YG-30-02	-	-	XSC	LC3	-	-	610	-	-
2017-077	2458090.67	2017 Dec 3 0411	Chang Zheng 2D	-	Y47	Ludi Kancha Weixing 1	LKW-1	-	-	JQ	LC603	-	-	513	-	-
2017-078	2458098.19	2017 Dec 10 1640:04	Chang Zheng 3B	G2	Y40	Alcomsat 1	AlComSat 1	-	-	XSC	LC2	-	-	41799	-	-
2017-084	2458110.68	2017 Dec 23 0414	Chang Zheng 2D	-	Y48	Ludi Kancha Weixing 2	LKW-2	-	-	JQ	LC603	-	-	521	-	-
2017-085	2458113.32	2017 Dec 25 1944	Chang Zheng 2C	b	Y34	Yaogan 30 03 zu	YG-30-03	-	-	XSC	LC3	-	-	626	-	-
2018-002	2458127.64	2018 Jan 9 0324:33	Chang Zheng 2D	-	Y40	Gaojing-1 3/4	Superview 3/4	-	-	TYSC	LC9	-	-	584	-	-
2018-003	2458130.47	2018 Jan 11 2318:04	Chang Zheng 3B/YZ-1	G3Z	Y45	Beidou DW26/27	Beidou-3	-	-	XSC	LC3	-	-	22747	-	-
2018-006	2458131.80	2018 Jan 13 0710	Chang Zheng 2D	-	Y49	Ludi Kancha Weixing 3	LKW-3	-	-	JQ	LC603	-	-	511	-	-
2018-011	2458143.74	2018 Jan 25 0539:05	Chang Zheng 2C	b	Y36	Yaogan 30 04 zu	YG-30-04	-	-	XSC	LC3	-	-	613	-	-
2018-015	2458151.83	2018 Feb 2 0751:04	Chang Zheng 2D	-	Y13	Zhang Heng 1	CSES	-	-	JQ	LC603	-	-	519	-	-
2018-018	2458161.71	2018 Feb 12 0503:04	Chang Zheng 3B/YZ-1	G3Z	Y47	Beidou DW28/29	Beidou-3	-	-	XSC	LC2	-	-	22365	-	-
2018-025	2458194.80	2018 Mar 17 0710:04	Chang Zheng 2D	-	Y50	Ludi Kancha Weixing 4	LKW-4	-	-	JQ	LC603	-	-	525	-	-
2018-029	2458207.25	2018 Mar 29 1756:04	Chang Zheng 3B/YZ-1	G3Z	Y48	Beidou DW30/31	Beidou-3	-	-	XSC	LC2	-	-	22714	-	-
2018-031	2458208.64	2018 Mar 31 0322:08	Chang Zheng 4C	-	Y26	Gao Fen 1-02/03/04	GF-1 02,03,04	-	-	TYSC	LC9	-	-	698	-	-
2018-034	2458218.68	2018 Apr 10 0425:03	Chang Zheng 4C	-	Y25	Yaogan 31 01 zu	YG-31-01	-	-	JQ	LC603	-	-	1221	-	-
2018-041	2458242.17	2018 May 3 1606:05	Chang Zheng 3B	G2	Y55	Apstar 6C	Apstar 6C	-	-	XSC	LC2?	-	-	41827	-	-
2018-043	2458247.27	2018 May 8 1828:40	Chang Zheng 4C	-	Y20	Gao Fen 5	Gao Fen 5	-	-	TYSC	LC9	-	-	702	-	-
2018-045	2458259.40	2018 May 20 2128:50	Chang Zheng 4C	-	Y27	Queqiao	Chang'e-4 Relay	-	-	XSC	LC3	-	-	150000	-	-
2018-048	2458271.68	2018 Jun 2 0413:04	Chang Zheng 2D	-	Y20	Gao Fen 6	Gao Fen 6/LJ-1	-	-	JQ	LC603	-	-	671	-	-
2018-050	2458275.05	2018 Jun 5 1307:04	Chang Zheng 3A	-	Y25	Fengyun 2H	FY-2-09	-	-	XSC	LC2	-	-	36377	-	-
2018-054	2458296.65	2018 Jun 27 0330:06	Chang Zheng 2C	b	Y44	Xin Jishu Shiyan Shuan	XJSS	-	-	XSC	LC2	-	-	593	-	-
2018-056	2458308.66	2018 Jul 9 0356:14	Chang Zheng 2C	SMA	Y3	PRSS-1/PakTes-1	PRSS-1	-	-	JQ	LC603	-	-	831	-	-
2018-057	2458309.37	2018 Jul 9 2058:04	Chang Zheng 3A	-	Y27	Beidou DW32	Beidou-2	-	-	XSC	LC2?	-	-	36005	-	-
2018-062	2458328.58	2018 Jul 29 0148:05	Chang Zheng 3B/YZ-1	G3Z	Y49	Beidou DW33/34	Beidou-3	-	-	XSC	LC3	-	-	22393	-	-
2018-063	2458330.63	2018 Jul 31 0300:04	Chang Zheng 4B	-	Y37	Gao Fen 11	Gao Fen 11	-	-	TYSC	LC9	-	-	693	-	-
2018-067	2458355.49	2018 Aug 24 2352:04	Chang Zheng 3B/YZ-1	G3Z	Y50	Beidou DW35/36	Beidou-3	-	-	XSC	LC3	-	-	22425	-	-
2018-068	2458368.64	2018 Sep 7 0315:05	Chang Zheng 2C	b	Y39	Haiyang 1C	Haiyang 1C	-	-	TYSC	LC9?	-	-	787	-	-
2018-072	2458381.09	2018 Sep 19 1407:04	Chang Zheng 3B/YZ-1	G3Z	Y51	Beidou DW37/38	Beidou-3	-	-	XSC	LC2	-	-	22711	-	-
2018-077	2458400.61	2018 Oct 9 0243:03	Chang Zheng 2C/YZ-1S	-	Y38	Yaogan 32 01 zu	YG-32-01	-	-	JQ	LC603	-	-	705	-	-
2018-078	2458406.68	2018 Oct 15 0423:04	Chang Zheng 3B/YZ-1	G3Z	Y52	Beidou DW39/40	Beidou-3	-	-	XSC	LC3	-	-	22732	-	-
2018-081	2458416.46	2018 Oct 24 2257	Chang Zheng 4B	-	Y34	Haiyang 2B	Haiyang 2B	-	-	TYSC	LC9	-	-	1152	-	-
2018-083	2458420.53	2018 Oct 29 0043:14	Chang Zheng 2C	b	Y22	Zhongfa Haiyang	CFOSat	-	-	JQ	LC603	-	-	529	-	-
2018-085	2458424.16	2018 Nov 1 1557:04	Chang Zheng 3B	G3	Y41	Beidou DW41	Beidou-3 G1Q	-	-	XSC	LC2	-	-	35909	-	-
2018-093	2458441.25	2018 Nov 18 1807:04	Chang Zheng 3B/YZ-1	G3Z	Y53	Beidou DW42/43	Beidou-3	-	-	XSC	LC3	-	-	22843	-	-
2018-094	2458442.49	2018 Nov 19 2340:04	Chang Zheng 2D	-	Y28	Shiyan 6	Shiyan 6	-	-	JQ	LC603	-	-	537	-	-
2018-102	2458459.67	2018 Dec 7 0412	Chang Zheng 2D	-	Y38	Saudisat-5A/5B	Saudisat-5A/5B	-	-	JQ	LC603	-	-	554	-	-
2018-103	2458460.27	2018 Dec 7 1823	Chang Zheng 3B	G2	Y30	Chang'e-4	Chang'e-4	-	-	XSC	LC2	-	-	150000	-	-
2018-110	2458477.20	2018 Dec 24 1653:04	Chang Zheng 3C	G2?	Y17	TJS 3	TJS 3	-	-	XSC	LC3	-	-	36367	-	-
2018-112	2458481.83	2018 Dec 29 0800:05	Chang Zheng 2D/YZ-3	-	Y35	Hongyan-1	-	-	-	JQ	LC603	-	-	1100	-	-
2019-001	2458494.22	2019 Jan 10 1711:04	Chang Zheng 3B	G3	Y56	Zhongxing 2D	Shentou-2?	-	-	XSC	LC2	-	-	35819	-	-
2019-012	2458552.19	2019 Mar 9 1628:04	Chang Zheng 3B	G3	Y54	Zhongxing 6C	ZX-6C	-	-	XSC	LC3	-	-	41761	-	-
2019-017	2458574.16	2019 Mar 31 1551:04	Chang Zheng 3B	G2	Y44	Tianlian 2	Tianlian 2	-	-	XSC	LC2	-	-	35935	-	-
2019-023	2458594.11	2019 Apr 20 1441:03	Chang Zheng 3B	G2	Y59	Beidou DW44	Beidou-3 I1Q	-	-	XSC	LC3	-	-	35886	-	-
2019-024	2458603.45	2019 Apr 29 2252:05	Chang Zheng 4B	-	Y36	Tianhui-2 01 zu	Tianhui-2 01 zu	-	-	TYSC	LC9	-	-	517	-	-
2019-027	2458621.16	2019 May 17 1548:05	Chang Zheng 3C	G2?	Y16	Beidou DW45	Beidou-2 G8	-	-	XSC	LC2	-	-	35822	-	-
2019-F04	2458626.45	2019 May 22 2249	Chang Zheng 4C	-	Y23	Yaogan 33	-	-	-	TYSC	LC9	-	-	500?	-	-
2019-035	2458659.26	2019 Jun 24 1809	Chang Zheng 3B	G2	Y60	Beidou DW46	Beidou-3 I2Q	-	-	XSC	LC3	-	-	35894	-	-
2019-045	2458690.66	2019 Jul 26 0357	Chang Zheng 2C	b	Y37	Yaogan 30 05 zu	YG-30-05	-	-	XSC	LC3	-	-	643	-	-
2019-053	2458715.00	2019 Aug 19 1203	Chang Zheng 3B	G2	Y58	Zhongxing-18	Zhongxing-18	-	-	XSC	LC2	-	-	35790	-	-
2019-059	2458738.64	2019 Sep 12 0326	Chang Zheng 4B	-	Y39	ZY1-02D	ZY1-02D	-	-	TYSC	LC9	-	-	808	-	-
2019-061	2458749.38	2019 Sep 22 2110:04	Chang Zheng 3B/YZ-1	G3Z	Y65	Beidou DW47/48	Beidou-3 M23/M24	-	-	XSC	LC2	-	-	22222	-	-
2019-063	2458751.54	2019 Sep 25 0054:34	Chang Zheng 2D	-	Y43	Yunhai-1 02	Yunhai-1 02	-	-	JQ	LC43/94	-	-	800	-	-
2019-066	2458761.29	2019 Oct 4 1851:05	Chang Zheng 4C	-	Y33	GaoFen 10	GaoFen 10 02 xing	-	-	TYSC	LC9	-	-	629	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-070	2458774.14	2019 Oct 17 1521:04	Chang Zheng 3B	G2	Y57	TJS 4	TJS 4	-	-	XSC	LC3	-	-	36051	-	-
2019-072	2458790.64	2019 Nov 3 0322	Chang Zheng 4B	-	Y38	GaoFen 7	GaoFen 7	-	-	TYSC	LC9	-	-	512	-	-
2019-073	2458792.24	2019 Nov 4 1743:04	Chang Zheng 3B	G2	Y61	Beidou DW49	Beidou-3 I3Q	-	-	XSC	LC3?	-	-	35900	-	-
2019-076	2458800.77	2019 Nov 13 0635	Chang Zheng 6	-	Y4	Ningxia-1	Ningxia-1	-	-	TYSC	LC16	-	-	900	-	-
2019-078	2458810.54	2019 Nov 23 0055	Chang Zheng 3B/YZ-1	G3Z	Y66	Beidou DW50/51	Beidou-3 M21/M22	-	-	XSC	LC3	-	-	22584	-	-
2019-082	2458815.49	2019 Nov 27 2352	Chang Zheng 4C	-	Y24	GaoFen 12	GaoFen 12	-	-	TYSC	LC9	-	-	632	-	-
2019-090	2458833.81	2019 Dec 16 0722	Chang Zheng 3B/YZ-1	G3Z	Y67	Beidou DW52/53	Beidou-3 M19/M20	-	-	XSC	LC3	-	-	22569	-	-
2019-093	2458837.64	2019 Dec 20 0322:29	Chang Zheng 4B	-	Y44	CBERS-4A	CBERS-4A	-	-	TYSC	LC9	-	-	647	-	-
2020-002	2458856.14	2020 Jan 7 1520	Chang Zheng 3B	G2	Y62	TJS 5	TJS 5	-	-	XSC	LC2	-	-	35996	-	-
2020-003	2458863.62	2020 Jan 15 0253:04	Chang Zheng 2D	-	Y58	Jilin-1 Kuanfu 1	Jilin-1/Nusat/TQ-5	-	-	TYSC	LC9	-	-	540	-	-
2020-014	2458899.38	2020 Feb 19 2107:41	Chang Zheng 2D	-	Y61	XJS C-F	XJS C-F	-	-	XSC	LC3	-	-	493	-	-
2020-017	2458918.00	2020 Mar 9 1155	Chang Zheng 3B	G2	Y69	Beidou DW54	Beidou-3 G2	-	-	XSC	LC2	-	-	35809	-	-
2020-F02	2458925.07	2020 Mar 16 1334	Chang Zheng 7A	-	Y1	XYZ-6	XYZ-6	-	-	WEN	LC201	-	-	200?	-	-
2020-021	2458932.65	2020 Mar 24 0343:05	Chang Zheng 2C	b	Y42	Yaogan 30 06 zu	YG-30-06	-	-	XSC	LC3	-	-	624	-	-
2020-F03	2458948.99	2020 Apr 9 1146	Chang Zheng 3B	G2	Y71	Palapa N1	Nusantara Dua	-	-	XSC	LC2	-	-	200?	-	-
2020-034	2459000.87	2020 May 31 0853	Chang Zheng 2D	-	Y51	Gao Fen 9-02	Gao Fen 9-02	-	-	JQ	LC43/94	-	-	538	-	-
2020-036	2459011.27	2020 Jun 10 1831:24	Chang Zheng 2C	b	Y40?	Hai Yang 1D	HY-1D	-	-	TYSC	LC9	-	-	793	-	-
2020-039	2459017.80	2020 Jun 17 0719:04	Chang Zheng 2D	-	Y52	Gao Fen 9-03	Gao Fen 9-03	-	-	JQ	LC43/94	-	-	527	-	-
2020-040	2459023.57	2020 Jun 23 0143:04	Chang Zheng 3B	G2	Y68	Beidou DW55	Beidou-3 G3	-	-	XSC	LC2	-	-	35833	-	-
2020-042	2459033.63	2020 Jul 3 0310	Chang Zheng 4B	-	Y43	Gao Fen Duomo	Gao Fen Duomo	-	-	TYSC	LC9	-	-	651	-	-
2020-043	2459035.49	2020 Jul 4 2344:04	Chang Zheng 2D	-	Y29	Shiyan 6-02	SW6-02	-	-	JQ	LC43/94	-	-	792	-	-
2020-045	2459040.01	2020 Jul 9 1211:04	Chang Zheng 3B	G2	Y64	Apstar 6D	Apstar 6D	-	-	XSC	LC3	-	-	35884	-	-
2020-051	2459055.63	2020 Jul 25 0313	Chang Zheng 4B	-	Y45	ZY3-3	ZY3-3	-	-	TYSC	LC9	-	-	513	-	-
2020-054	2459067.67	2020 Aug 6 0401	Chang Zheng 2D	-	Y56	Gao Fen 9-04	Gao Fen 9-04	-	-	JQ	LC43/94	-	-	507	-	-
2020-058	2459084.60	2020 Aug 23 0227:04	Chang Zheng 2D	-	Y57	Gao Fen 9-05	Gao Fen 9-05	-	-	JQ	LC43/94	-	-	507	-	-
2020-063	2459096.81	2020 Sep 4 0730?	Chang Zheng 2F	T	T3	CSSHQ	CSSHQ	-	-	JQ	LC43/91	-	-	566	-	-
2020-064	2459099.75	2020 Sep 7 0557:05	Chang Zheng 4B	-	Y46	Gao Fen 11-02	Gao Fen 11-02	-	-	TYSC	LC9	-	-	694	-	-
2020-066	2459113.74	2020 Sep 21 0540:04	Chang Zheng 4B	-	Y41	Hai Yang 2-03	HY-2C	-	-	JQ	LC43/94	-	-	963	-	-
2020-067	2459119.64	2020 Sep 27 0323:04	Chang Zheng 4B	-	Y42	Huanjing Jianzai 02A/B	HJ-2A/B	-	-	TYSC	LC9	-	-	746	-	-
2020-071	2459134.21	2020 Oct 11 1657:04	Chang Zheng 3B	G2	Y63	Gao Fen 13	Gao Fen 13	-	-	XSC	LC2	-	-	35836	-	-
2020-076	2459149.14	2020 Oct 26 1519:05	Chang Zheng 2C	-	Y43	Yaogan 30 07 zu	YG-30-07	-	-	XSC	LC3	-	-	617	-	-
2020-079	2459159.64	2020 Nov 6 0319:15	Chang Zheng 6	-	Y3	Nusat 9-18	Nusat 9-18	-	-	TYSC	LC16	-	-	481	-	-
2020-082	2459166.17	2020 Nov 12 1559	Chang Zheng 3B	G2	Y73	Tiantong-1 02	Tiantong-1 02	-	-	XSC	LC2	-	-	35819	-	-
2020-092	2459189.67	2020 Dec 6 0357:37	Chang Zheng 3B	G5	Y70	Gao Fen 14	Gao Fen 14	-	-	XSC	LC3	-	-	525	-	-
2020-102	2459205.69	2020 Dec 22 0437:37	Chang Zheng 8	-	Y1	XJY 7	XJY 7	-	-	WEN	LC201	-	-	528	-	-
2020-103	2459211.16	2020 Dec 27 1544	Chang Zheng 4C	-	Y35	Yaogan 33	Yaogan 33	-	-	JQ	LC43/94	-	-	699	-	-
2021-003	2459234.18	2021 Jan 19 1625	Chang Zheng 3B	G2	Y74	Tiantong-1 03	Tiantong-1 03	-	-	XSC	LC2	-	-	35821	-	-
2021-007	2459243.70	2021 Jan 29 0447	Chang Zheng 4C	-	Y31	Yaogan 31 02 zu	Yaogan 31-02	-	-	JQ	LC43/94	-	-	1134	-	-
2021-010	2459250.15	2021 Feb 4 1536:04	Chang Zheng 3B	G2	Y77	TJS 6	Huoyan 3?	-	-	XSC	LC3	-	-	35831	-	-
2021-014	2459269.60	2021 Feb 24 0222	Chang Zheng 4C	-	Y32	Yaogan 31 03 zu	Yaogan 31-03	-	-	JQ	LC43/94	-	-	1134	-	-
2021-019	2459285.24	2021 Mar 11 1751:28	Chang Zheng 7A	-	Y2	Shiyan 9	Shiyan 9	-	-	WEN	LC201	-	-	36110	-	-
2021-020	2459286.60	2021 Mar 13 0219	Chang Zheng 4C	-	Y42	Yaogan 31 04 zu	Yaogan 31-04	-	-	JQ	LC43/94	-	-	1173	-	-
2021-026	2459304.45	2021 Mar 30 2245	Chang Zheng 4C	-	Y36	Gao Fen 12-02	Gao Fen 12-02	-	-	JQ	LC43/94	-	-	631	-	-
2021-028	2459313.46	2021 Apr 8 2301	Chang Zheng 4B	-	Y49	Shiyan 6 03	SW6-03	-	-	TYSC	LC9	-	-	1120	-	-
2021-033	2459331.64	2021 Apr 27 0320	Chang Zheng 6	-	Y5	Qilu-1/4	Qilu-1/4	-	-	TYSC	LC16	-	-	553	-	-
2021-037	2459334.81	2021 Apr 30 0727	Chang Zheng 4C	-	Y34	Yaogan 34	Yaogan 34	-	-	JQ	LC43/94	-	-	1128	-	-
2021-039	2459341.26	2021 May 6 1811:05	Chang Zheng 2C	-	Y47	Yaogan 30 08 zu	YG-30-08	-	-	XSC	LC3	-	-	613	-	-
2021-043	2459353.67	2021 May 19 0403	Chang Zheng 4B	-	Y48	Hai Yang 2-04	HY-2D	-	-	JQ	LC43/94	-	-	973	-	-
2021-046	2459364.04	2021 May 29 1255:29	Chang Zheng 7	-	Y3	Tianzhou 2	Tianzhou 2	-	-	WEN	LC201	-	-	521	-	-
2021-047	2459368.18	2021 Jun 2 1617	Chang Zheng 3B	G2	Y72	Feng Yun 4-02	FY-4B	-	-	XSC	LC2	-	-	35824	-	-
2021-050	2459376.63	2021 Jun 11 0303	Chang Zheng 2D	-	Y54	Beijing 3-01	Beijing-3	-	-	TYSC	LC9	-	-	505	-	-
2021-053	2459382.56	2021 Jun 17 0122:32	Chang Zheng 2F	G	Y12	Shenzhou 12	Shenzhou 12	-	-	JQ	LC43/91	-	-	485	-	-
2021-055	2459383.77	2021 Jun 18 0630	Chang Zheng 2C	-	Y48	Yaogan 30 09 zu	YG-30-09	-	-	XSC	LC3	-	-	680	-	-
2021-061	2459398.62	2021 Jul 3 0251	Chang Zheng 2D	-	Y74	Jilin-1	Jilin-1	-	-	TYSC	LC9	-	-	547	-	-
2021-062	2459400.48	2021 Jul 4 2328	Chang Zheng 4C	-	Y43	Feng Yun 3E	FY-3E	-	-	JQ	LC43/94	-	-	834	-	-
2021-063	2459402.16	2021 Jul 6 1553	Chang Zheng 3C	G2?	Y18	Tian Lian 1-05	TL1-05	-	-	XSC	LC2	-	-	39784	-	-
2021-064	2459405.00	2021 Jul 9 1159	Chang Zheng 6	-	Y6	Zhongzi xinguo 02 zu	Zhongzi 02	-	-	TYSC	LC16	-	-	888	-	-
2021-065	2459414.51	2021 Jul 19 0019	Chang Zheng 2C	-	Y49	Yaogan 30 10 zu	YG-30-10	-	-	XSC	LC3	-	-	804	-	-
2021-067	2459424.67	2021 Jul 29 0401	Chang Zheng 2D	-	Y62	Tianhui 1-04	Tianhui 1-04	-	-	JQ	LC43/94	-	-	503	-	-
2021-U01	2459422.50	2021 Jul 27?	Chang Zheng 2C	-	-	Orbital weapon test	DF-ZF	-	-	TYSC?	-	-	-	-	-	-
2021-070	2459430.96	2021 Aug 4 1101	Chang Zheng 6	-	Y7	KL-Beta A,B	KL-Beta	-	-	TYSC	LC16	-	-	913	-	-
2021-071	2459432.19	2021 Aug 5 1630:04	Chang Zheng 3B	G2	Y76	Zhongxing 2E	Shentong 2-05	-	-	XSC	LC2	-	-	35822	-	-
2021-074	2459445.44	2021 Aug 18 2232	Chang Zheng 4B	-	Y50	Tianhui-2 02 zu	Tianhui 2-02	-	-	TYSC	LC9	-	-	522	-	-
2021-076	2459450.97	2021 Aug 24 1115	Chang Zheng 2C/YZ-1S	-	Y51	RSW	RSW	-	-	JQ	LC43/94	-	-	1114	-	-
2021-077	2459451.15	2021 Aug 24 1541	Chang Zheng 3B	-	Y78	TJS 7	TJS 7	-	-	XSC	LC3	-	-	35827	-	-
2021-079	2459464.63	2021 Sep 7 0301	Chang Zheng 4C	-	Y40	Gao Fen 5-02	GF5-02	-	-	TYSC	LC9	-	-	802	-	-
2021-080	2459466.99	2021 Sep 9 1150	Chang Zheng 3B	-	Y86	Zhongxing 9B	Zhongxing 9B	-	-	XSC	LC2	-	-	35804	-	-
2021-085	2459477.80	2021 Sep 20 0710:11	Chang Zheng 7	-	Y4	Tianzhou 3	Tianzhou 3	-	-	WEN	LC201	-	-	395	-	-
2021-087	2459484.85	2021 Sep 27 0820	Chang Zheng 3B	G2	Y81	Shiyan 10	Shiyan 10	-	-	XSC	LC3	-	-	40428	-	-
2021-091	2459501.95	2021 Oct 14 1051	Chang Zheng 2D	-	Y53	CHASE	CHASE	-	-	TYSC	LC9	-	-	527	-	-
2021-092	2459503.18	2021 Oct 15 1623:44	Chang Zheng 2F	G	Y13	Shenzhou 13	Shenzhou 13	-	-	JQ	LC43/91	-	-	390	-	-
2021-094	2459511.56	2021 Oct 24 0127	Chang Zheng 3B	G2	Y83	Shi Jian 21	Shi Jian 21	-	-	XSC	LC2	-	-	38886	-	-
2021-099	2459521.82	2021 Nov 3 0743	Chang Zheng 2C/YZ-1S	-	Y41	YG-32 02 zu	YG-32-02	-	-	JQ	LC43/94	-	-	703	-	-
2021-100	2459523.60	2021 Nov 5 0219	Chang Zheng 6	-	Y8	Guangmu (CASEarth)	SDGSAT-1	-	-	TYSC	LC16	-	-	516	-	-
2021-101	2459524.62	2021 Nov 6 0300	Chang Zheng 2D	-	Y63	YG-35A,B,C	YG-35	-	-	XSC	LC3	-	-	503	-	-
2021-107	2459538.58	2021 Nov 20 0151	Chang Zheng 4B	-	Y52	Gao Fen 11-03	Gao Fen 11-03	-	-	TYSC	LC9	-	-	695	-	-
2021-109	2459541.49	2021 Nov 22 2345	Chang Zheng 4C	-	Y37	Gao Fen 3-02	Gao Fen 3-02	-	-	JQ	LC43/94	-	-	752	-	-
2021-114	2459545.19	2021 Nov 26 1640:04	Chang Zheng 3B	G3	Y79	Zhongxing 1D	Fenghuo-2 04?	-	-	XSC	LC2	-	-	35831	-	-
2021-122	2459558.51	2021 Dec 10 0011:30	Chang Zheng 4B	-	Y47	SJ6 05 zu	SJ6-05	-	-	JQ	LC43/94	-	-	473	-	-
2021-124	2459562.17	2021 Dec 13 1609	Chang Zheng 3B	G3	Y82	Tian Lian 2-02	TL2-02	-	-	XSC	LC3	-	-	35857	-	-
2021-129	2459571.92	2021 Dec 23 1012	Chang Zheng 7A	-	Y3	SY-12 01/02	Shiyan 12 01/02	-	-	WEN	LC201	-	-	35900	-	-
2021-131	2459574.63	2021 Dec 26 0311:31	Chang Zheng 4C	-	Y39	ZY-1-02E	ZY1-02E	-	-	TYSC	LC9	-	-	845	-	-
2021-134	2459577.97	2021 Dec 29 1113	Chang Zheng 2D	-	Y41	Tianhui-4	Tianhui-4	-	-	JQ	LC43/94	-	-	501	-	-
2021-135	2459578.20	2021 Dec 29 1643	Chang Zheng 3B	G3	Y84	TJS 9	TJS 9	-	-	XSC	LC2	-	-	35824	-	-
2022-004	2459596.61	2022 Jan 17 0235	Chang Zheng 2D	-	Y70	Shiyan 13	SY-13	-	-	TYSC	LC9	-	-	1299	-	-
2022-007	2459605.49	2022 Jan 25 2344	Chang Zheng 4C	-	Y29	Ludi Tance 1-01A	LT1-01A	-	-	JQ	LC43/94	-	-	816	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-018	2459637.49	2022 Feb 26 2344	Chang Zheng 4C	-	Y30	Ludi Tance 1-01B	LT1-01B	-	-	JQ	LC43/94	-	-	604	-	-
2022-019	2459637.63	2022 Feb 27 0306:28	Chang Zheng 8	0	Y2	Taijing 3/4, Jilin-1	Taijing 3/4, Jilin-1	-	-	WEN	LC201	-	-	604	-	-
2022-023	2459643.75	2022 Mar 5 0601	Chang Zheng 2C	-	Y62	Yinhe 2-01/06	Yinhe 2-01/06	-	-	XSC	LC2	-	-	645	-	-
2022-027	2459655.80	2022 Mar 17 0709	Chang Zheng 4C	-	Y47	YG-34 02	Yaogan 34 02	-	-	JQ	LC43/94	-	-	1102	-	-
2022-031	2459667.91	2022 Mar 29 0950	Chang Zheng 6A	-	Y1	TK-2/PJ-2	TK-2/PJ-2	-	-	TYSC	LC9A	-	-	606	-	-
2022-035	2459676.49	2022 Apr 6 2347	Chang Zheng 4C	-	Y38	Gao Fen 3-03	Gao Fen 3-03	-	-	JQ	LC43/94	-	-	752	-	-
2022-038	2459685.00	2022 Apr 15 1200	Chang Zheng 3B	-	Y89	Zhongxing 6D	ZX-6D	-	-	XSC	LC2	-	-	37171	-	-
2022-039	2459685.26	2022 Apr 15 1816	Chang Zheng 4C	-	Y28	Daqi Huanjing Jiance	DQHJJW	-	-	TYSC	LC9	-	-	703	-	-
2022-043	2459698.67	2022 Apr 29 0411:33	Chang Zheng 2C	-	Y70	Siwei 1-01/02	Siwei GJ 1-01/02	-	-	JQ	LC43/94	-	-	725	-	-
2022-048	2459704.61	2022 May 5 0238	Chang Zheng 2D	-	Y79	Jilin-1	Jilin-1	-	-	TYSC	LC9	-	-	548	-	-
2022-050	2459709.25	2022 May 9 1756:37	Chang Zheng 7	-	Y5	Tianzhou-4	Tianzhou-4	-	-	WEN	LC201	-	-	401	-	-
2022-056	2459719.94	2022 May 20 1030	Chang Zheng 2C/YZ-1S	-	Y53/Y5	BSX-1/2	BSX-1/2	-	-	JQ	LC43/94	-	-	1184	-	-
2022-058	2459732.67	2022 Jun 2 0400	Chang Zheng 2C	-	Y65	Geely Xingguo 01 zu	GeeSat 01-01/09	-	-	XSC	LC3	-	-	627	-	-
2022-060	2459735.61	2022 Jun 5 0244:10	Chang Zheng 2F	G	Y14	Shenzhou 14	Shenzhou 14	-	-	JQ	LC43/91	-	-	521	-	-
2022-068	2459753.60	2022 Jun 23 0222	Chang Zheng 2D	-	Y64	YG-35 02	Yaogan 35 02	-	-	XSC	LC3	-	-	506	-	-
2022-069	2459758.16	2022 Jun 27 1546	Chang Zheng 4C	-	Y46	Gao Fen 12-03	Gao Fen 12-03	-	-	JQ	LC43/94	-	-	681	-	-
2022-078	2459773.19	2022 Jul 12 1630	Chang Zheng 3B	G2	Y85	Tianlian 2-03	Tianlian 2-03	-	-	XSC	LC2	-	-	35855	-	-
2022-082	2459776.46	2022 Jul 15 2257:16	Chang Zheng 2C	-	Y71	Siwei 2-01/02	Siwei GJ 2-01/02	-	-	TYSC	LC9	-	-	501	-	-
2022-088	2459790.06	2022 Jul 29 1328	Chang Zheng 2D	-	Y65	YG-35 03	Yaogan 35 03	-	-	XSC	LC3	-	-	526	-	-
2022-090	2459795.63	2022 Aug 4 0308	Chang Zheng 4B	-	Y40	Guomang	Guomang	-	-	TYSC	LC9	-	-	509	-	-
2022-093	2459796.17	2022 Aug 4 1600?	Chang Zheng 2F	T	T4	CSSHQ	CSSHQ	-	-	JQ	LC43/91	-	-	845	-	-
2022-098	2459801.70	2022 Aug 10 0450	Chang Zheng 6	-	Y10	Jilin-1	Jilin-1	-	-	TYSC	LC9	-	-	562	-	-
2022-100	2459811.23	2022 Aug 19 1737	Chang Zheng 2D	-	Y66	YG-35 04	Yaogan 35 04	-	-	XSC	LC3	-	-	515	-	-
2022-103	2459815.63	2022 Aug 24 0301	Chang Zheng 2D	-	Y75	Beijing-3B	Beijing-3B	-	-	TYSC	LC9	-	-	616	-	-
2022-106	2459825.49	2022 Sep 2 2344	Chang Zheng 4C	-	Y52	YG-33 02	Yaogan 33 02	-	-	JQ	LC43/94	-	-	697	-	-
2022-109	2459828.68	2022 Sep 6 0419	Chang Zheng 2D	-	Y67	YG-35 05	Yaogan 35 05	-	-	XSC	LC3	-	-	504	-	-
2022-112	2459836.05	2022 Sep 13 1318:47	Chang Zheng 7A	-	Y5	Zhongxing-1E	ZX-1E	-	-	WEN	LC201	-	-	35797	-	-
2022-115	2459843.47	2022 Sep 20 2315	Chang Zheng 2D	-	Y76	Yunhai 1-03	Yunhai 1-03	-	-	JQ	LC43/94	-	-	775	-	-
2022-120	2459849.07	2022 Sep 26 1338	Chang Zheng 2D	-	Y68	YG-36 01	Yaogan 36 01	-	-	XSC	LC3	-	-	-	-	-
2022-121	2459849.49	2022 Sep 26 2350	Chang Zheng 6	-	Y9	Shiyan 16AB/17	Shiyan 16AB/17	-	-	TYSC	LC16	-	-	-	-	-
2022-129	2459861.49	2022 Oct 8 2343	Chang Zheng 2D	-	Y55	Kuafu-1	ASO-S	-	-	JQ	LC43/94	-	-	-	-	-
2022-132	2459865.45	2022 Oct 12 2253	Chang Zheng 2C	-	Y66	HJ-2-05	HJ-2-05 (5m S-SAR-01)	-	-	TYSC	LC9	-	-	-	-	-
2022-133	2459867.30	2022 Oct 14 1912	Chang Zheng 2D	-	Y69	YG-36 02	Yaogan 36 02	-	-	XSC	LC3	-	-	-	-	-
2022-142	2459881.54	2022 Oct 29 0101	Chang Zheng 2D	-	Y72	Shiyan 20C	Shiyan 20C	-	-	JQ	LC43/94	-	-	-	-	-
2022-148	2459888.99	2022 Nov 5 1150	Chang Zheng 3B	-	Y91	Zhongxing 19	ZX-19	-	-	XSC	LC2	-	-	-	-	-
2022-151	2459895.45	2022 Nov 11 2252	Chang Zheng 6A	-	Y2	Yunhai-3	Yunhai-3	-	-	TYSC	LC9A	-	-	-	-	-
2022-152	2459895.59	2022 Nov 12 0203:12	Chang Zheng 7	-	Y6	Tianzhou-5	Tianzhou-5	-	-	WEN	LC201	-	-	-	-	-
2022-154	2459898.57	2022 Nov 15 0138	Chang Zheng 4C	-	Y48	Yaogan 34-03	Yaogan 34-03	-	-	JQ	LC43/94	-	-	-	-	-
2022-160	2459911.02	2022 Nov 27 1223	Chang Zheng 2D	-	Y89	YG-36 03	Yaogan 36 03	-	-	XSC	LC3	-	-	-	-	-
2022-162	2459913.13	2022 Nov 29 1508:17	Chang Zheng 2F	G	Y15	Shenzhou 15	Shenzhou 15	-	-	JQ	LC43/91	-	-	-	-	-
2022-165	2459922.27	2022 Dec 8 1831	Chang Zheng 2D	-	Y45	Gaofen 5-01A	Gaofen 5-01A	-	-	TYSC	LC9	-	-	-	-	-
2022-169	2459925.85	2022 Dec 12 0822	Chang Zheng 4C	-	Y57	Shiyan 20A/20B	Shiyan 20A/20B	-	-	JQ	LC43/94	-	-	-	-	-
2022-171	2459928.27	2022 Dec 14 1825	Chang Zheng 2D	-	Y80	YG-36 04	Yaogan 36 04	-	-	XSC	LC3	-	-	-	-	-
2022-176	2459940.82	2022 Dec 27 0737	Chang Zheng 4B	-	Y55	Gao Fen 11-04	Gao Fen 11-04	-	-	TYSC	LC9	-	-	-	-	-
2022-178	2459942.70	2022 Dec 29 0443	Chang Zheng 3B	G2	Y88	Shiyan 10-02	Shiyan 10-02	-	-	XSC	LC2	-	-	-	-	-
2023-002	2459953.42	2023 Jan 8 2200	Chang Zheng 7A	-	Y4	Shi Jian 23	Shi Jian 23	-	-	WEN	LC201	-	-	-	-	-
2023-005	2459957.26	2023 Jan 12 1810	Chang Zheng 2C	-	Y61	Apstar 6E	Apstar 6AE	-	-	XSC	LC3	-	-	-	-	-
2023-006	2459957.79	2023 Jan 13 0700	Chang Zheng 2D	-	Y73	Yaogan 37	Yaogan 37	-	-	JQ	LC43/94	-	-	-	-	-
2023-007	2459959.63	2023 Jan 15 0314?	Chang Zheng 2D	-	Y71	Jilin/Qilu	Jilin/Qilu	-	-	TYSC	LC9	-	-	-	-	-
2023-023	2459998.99	2023 Feb 23 1149	Chang Zheng 3B	G2	Y93	Zhongxing 26	ZX-26	-	-	XSC	LC2	-	-	-	-	-
2023-025	2459999.67	2023 Feb 24 0401	Chang Zheng 2C	-	Y63	Helusi 1	Horus 1	-	-	JQ	LC43/94	-	-	-	-	-
2023-030	2460013.45	2023 Mar 9 2241	Chang Zheng 4C	-	Y51	Tianhui-6 01/02	TH-6 01/02	-	-	TYSC	LC9	-	-	-	-	-
2023-032	2460016.67	2023 Mar 13 0402	Chang Zheng 2C	-	Y64	Helusi 2	Horus 2	-	-	JQ	LC43/94	-	-	-	-	-
2023-036	2460020.86	2023 Mar 17 0833	Chang Zheng 3B	G2	Y90	Gao Fen 13-02	Gao Fen 13-02	-	-	XSC	LC2	-	-	-	-	-
2023-047	2460033.95	2023 Mar 30 1050	Chang Zheng 2D	-	Y90	PIESAT 1-4	PIESAT 1-4	-	-	TYSC	LC9	-	-	-	-	-
2023-048	2460034.77	2023 Mar 31 0627	Chang Zheng 4C	-	Y49	YG-34 04	Yaogan 34-04	-	-	JQ	LC43/94	-	-	-	-	-
2023-055	2460050.57	2023 Apr 16 0136:30	Chang Zheng 4B	-	Y51	FY3-07	FY3-07	-	-	JQ	LC43/94	-	-	-	-	-
2023-063	2460075.06	2023 May 10 1322:51	Chang Zheng 7	-	Y7	Tianzhou-6	Tianzhou-6	-	-	WEN	LC201	-	-	-	-	-
2023-066	2460081.62	2023 May 17 0249	Chang Zheng 3B	G2	Y87	Beidou DW56	Beidou-3 G4	-	-	XSC	LC2	-	-	-	-	-
2023-069	2460085.83	2023 May 21 0800	Chang Zheng 2C	-	Y60	Aomen Kexue	Aomen Kexue	-	-	JQ	LC43/94	-	-	-	-	-
2023-077	2460094.56	2023 May 30 0131:13	Chang Zheng 2F	G	Y16	Shenzhou 16	Shenzhou 16	-	-	JQ	LC43/91	-	-	-	-	-
2023-085	2460110.73	2023 Jun 15 0530	Chang Zheng 2D	-	Y88	Jilin-1	Jilin-1	-	-	TYSC	LC9	-	-	-	-	-
2023-087	2460115.64	2023 Jun 20 0318	Chang Zheng 6	-	Y12	Shiyan 25	Shiyan 25	-	-	TYSC	LC16	-	-	-	-	-
2023-095	2460134.96	2023 Jul 9 1100	Chang Zheng 2C/YZ-1S	-	Y52/Y3	WHJSW-1	WHJSW 01	-	-	JQ	LC43/94	-	-	-	-	-
2023-104	2460148.62	2023 Jul 23 0250	Chang Zheng 2D	-	Y91	Lingxi-03/Sixiang	Sixiang	-	-	TYSC	LC9	-	-	-	-	-
2023-106	2460152.33	2023 Jul 26 2002	Chang Zheng 2D	-	Y81	YG-36 05	Yaogan 36 05	-	-	XSC	LC3	-	-	-	-	-
2023-111	2460159.66	2023 Aug 3 0347:47	Chang Zheng 4C	-	Y44	FY3-06	FY3F	-	-	JQ	LC43/94	-	-	-	-	-
2023-116	2460165.45	2023 Aug 8 2253	Chang Zheng 2C	-	Y46	HJ2-06	HJ2-06	-	-	TYSC	LC9	-	-	-	-	-
2023-120	2460169.23	2023 Aug 12 1726	Chang Zheng 3B	G2	Y92	Ludi Tance 4A	LSAR4-01	-	-	XSC	LC2	-	-	-	-	-
2023-123	2460177.24	2023 Aug 20 1745	Chang Zheng 4C	-	Y56	GF12-04	GF12-04	-	-	JQ	LC43/94	-	-	-	-	-
2023-130	2460187.82	2023 Aug 31 0736	Chang Zheng 2D	-	Y82	YG-39 01	Yaogan 39 01	-	-	XSC	LC3	-	-	-	-	-
2023-136	2460194.26	2023 Sep 6 1814	Chang Zheng 4C	-	Y53	YG-33 03	Yaogan 33 03	-	-	JQ	LC43/94	-	-	-	-	-
2023-139	2460197.69	2023 Sep 10 0430	Chang Zheng 6A	-	Y5	YG-40	Yaogan 40	-	-	TYSC	LC9A	-	-	-	-	-
2023-145	2460204.68	2023 Sep 17 0413	Chang Zheng 2D	-	Y83	YG-39 02	Yaogan 39 02	-	-	XSC	LC3	-	-	-	-	-
2023-149	2460214.34	2023 Sep 26 2015	Chang Zheng 4C	-	Y54	YG-33 04	Yaogan 33 04	-	-	JQ	LC43/94	-	-	-	-	-
2023-152	2460222.52	2023 Oct 5 0024	Chang Zheng 2D	-	Y84	YG-39 03	Yaogan 39 03	-	-	XSC	LC3	-	-	-	-	-
2023-159	2460232.54	2023 Oct 15 0054	Chang Zheng 2D	-	Y77	Yunhai-1 04	Yunhai-1 04	-	-	JQ	LC43/94	-	-	-	-	-
2023-163	2460241.34	2023 Oct 23 2003	Chang Zheng 2D	-	Y85	YG-39 04	Yaogan 39 04	-	-	XSC	LC3	-	-	-	-	-
2023-164	2460243.63	2023 Oct 26 0314:02	Chang Zheng 2F	G	Y17	Shenzhou 17	Shenzhou 17	-	-	JQ	LC43/91	-	-	-	-	-
2023-168	2460249.45	2023 Oct 31 2250	Chang Zheng 6A	-	Y4	Tianhui-5	Tianhui-5	-	-	TYSC	LC9A	-	-	-	-	-
2023-169	2460252.12	2023 Nov 3 1454	Chang Zheng 7A	-	Y6	TJS-10	TJS-10	-	-	WEN	LC201	-	-	-	-	-
2023-172	2460257.97	2023 Nov 9 1123	Chang Zheng 3B	G2	Y94	Zhongxing 6E	Zhongxing 6E	-	-	XSC	LC2	-	-	-	-	-
2023-176	2460264.66	2023 Nov 16 0355	Chang Zheng 2C/YZ-1S	-	Y56/Y9	HY3-01	HY3-01	-	-	JQ	LC43/94	-	-	-	-	-
2023-181	2460271.92	2023 Nov 23 1000:04	Chang Zheng 2D/YZ-3	-	Y59/Y2	XQG-02	WHJSW 02	-	-	XSC	-	-	-	-	-	-
2023-187	2460282.67	2023 Dec 4 0410	Chang Zheng 2C	-	Y54	MisrSat-2	Aiji-2	-	-	JQ	LC43/94	-	-	-	-	-
2023-194	2460288.58	2023 Dec 10 0158	Chang Zheng 2D	-	Y86	YG-39 05	Yaogan 39 05	-	-	XSC	-	-	-	-	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-195	2460293.09	2023 Dec 14 1412?	Chang Zheng 2F	T	T5	CSSHQ	CSSHQ	-	-	JQ	LC43/91	-	-	-	-	-
2023-207	2460304.64	2023 Dec 26 0326	Chang Zheng 3B/YZ-1	G3Z	Y75/Y16	Beidou 57/58	Beidou	-	-	XSC	-	-	-	-	-	-
2023-212	2460308.51	2023 Dec 30 0013	Chang Zheng 2C/YZ-1S	-	Y55/Y10?	WHJSW-4	WHJSW 04	-	-	JQ	LC43/94	-	-	-	-	-
2024-007	2460318.79	2024 Jan 9 0703	Chang Zheng 2C	-	Y30	Einstein Probe	Einstein Probe	-	-	XSC	LC3	-	-	-	-	-
2024-013	2460327.10	2024 Jan 17 1427:30	Chang Zheng 7	-	Y8	Tianzhou-7	Tianzhou-7	-	-	WEN	LC201	-	-	-	-	-
2024-023	2460343.48	2024 Feb 2 2337	Chang Zheng 2C	-	Y85	Geely Xingguo 02 zu	GeeSat	-	-	XSC	-	-	-	-	-	-
2024-040	2460370.04	2024 Feb 29 1303	Chang Zheng 3B	G2	Y95	Hulianwang Gaogui W.	HWGGW 1	-	-	XSC	-	-	-	-	-	-
2024-048	2460383.04	2024 Mar 13 1251	Chang Zheng 2C/YZ-1S	-	-	DRO-A/DRO-B	DRO-A/DRO-B	-	-	XSC	-	-	-	-	-	-
2024-051	2460389.52	2024 Mar 20 0031:28	Chang Zheng 8	-	Y3	Queqiao-2	Queqiao-2	-	-	WEN	LC201	-	-	-	-	-
2024-052	2460390.73	2024 Mar 21 0527	Chang Zheng 2D/YZ-3	-	Y87/Y3	Yunhai-2 02	Yunhai-2 02	-	-	JQ	LC43/94	-	-	-	-	-
2024-058	2460396.45	2024 Mar 26 2251	Chang Zheng 6A	-	Y3	Yunhai-3 02	Yunhai-3 02	-	-	TYSC	LC9A	-	-	-	-	-
2024-063	2460403.46	2024 Apr 2 2256	Chang Zheng 2D	-	Y102	Yaogan 42-01	Yaogan 42 01	-	-	XSC	-	-	-	-	-	-
2024-072	2460415.67	2024 Apr 15 0412	Chang Zheng 2D	-	Y97	Siwei Gaojing 3-01	Siwei Gaojing 3-01	-	-	JQ	LC43/94	-	-	-	-	-
2024-075	2460421.49	2024 Apr 20 2345	Chang Zheng 2D	-	Y103	Yaogan 42-02	Yaogan 42 02	-	-	XSC	-	-	-	-	-	-
2024-078	2460426.04	2024 Apr 25 1259:00	Chang Zheng 2F	G	Y18	Shenzhou 18	Shenzhou 18	-	-	JQ	LC43/91	-	-	-	-	-
2024-085	2460437.64	2024 May 7 0321	Chang Zheng 6C	-	Y1	Haiwangxing-01/Zhixing	Haiwangxing-01	-	-	TYSC	-	-	-	-	-	-
2024-087	2460439.57	2024 May 9 0143	Chang Zheng 3B	G2	Y96?	Zhuhui Tianwang 1-01	Zhuhui Tianwang 1-01	-	-	XSC	-	-	-	-	-	-
2024-089	2460442.49	2024 May 11 2343	Chang Zheng 4C	-	Y50	Shiyan 23	Shiyan 23	-	-	JQ	LC43/94	-	-	-	-	-
2024-094	2460450.63	2024 May 20 0306	Chang Zheng 2D	-	Y98	Beijing-3C	Beijing-3C	-	-	TYSC	-	-	-	-	-	-
2024-104	2460461.01	2024 May 30 1212	Chang Zheng 3B	G2	Y98	Paksat-MM1	Paksat-MM1	-	-	XSC	LC2	-	-	-	-	-
2024-116	2460483.79	2024 Jun 22 0700	Chang Zheng 2C	-	Y50	SVOM	SVOM	-	-	XSC	LC3	-	-	-	-	-
2024-122	2460491.00	2024 Jun 29 1157	Chang Zheng 7A	-	Y8	ZX-3A	Zhongxing-3A	-	-	WEN	LC201	-	-	-	-	-
2024-126	2460496.45	2024 Jul 4 2249	Chang Zheng 6A	-	Y7	Tianhui 5-02	Tianhui 5-02	-	-	TYSC	LC9A	-	-	-	-	-
2024-130	2460510.63	2024 Jul 19 0303	Chang Zheng 4B	-	Y58	GF11-05	GF11-05	-	-	TYSC	-	-	-	-	-	-
2024-135	2460524.05	2024 Aug 1 1314	Chang Zheng 3B	G2	Y97	Hulianwang Gaogui W.	HWGGW 2	-	-	XSC	LC2	-	-	-	-	-
2024-140	2460528.78	2024 Aug 6 0642	Chang Zheng 6A	-	Y21	Qianfan Jigui 01	Qianfan Xingzuo I-2	-	-	TYSC	-	-	-	-	-	-
2024-148	2460538.82	2024 Aug 16 0735	Chang Zheng 4B	-	Y72	Yaogan 43-01	Yaogan 43 01	-	-	XSC	-	-	-	-	-	-
2024-151	2460545.02	2024 Aug 22 1225	Chang Zheng 7A	-	Y9	ZX-4A	Zhongxing-4A	-	-	WEN	LC201	-	-	-	-	-
2024-156	2460556.56	2024 Sep 3 0122	Chang Zheng 4B	-	Y73	Yaogan 43-02	Yaogan 43 02	-	-	XSC	-	-	-	-	-	-
2024-159	2460559.27	2024 Sep 5 1830	Chang Zheng 6	-	Y11	Geely 03 zu	Geely 3-01/3-10	-	-	TYSC	-	-	-	-	-	-
2024-168	2460572.55	2024 Sep 19 0114	Chang Zheng 3B/YZ-1	G3Z	-	Beidou DW 59/60	Beidou-3M	-	-	XSC	-	-	-	-	-	-
2024-169	2460573.67	2024 Sep 20 0411	Chang Zheng 2D	-	-	Jilin-1 Kuanfu 02B	Jilin-1 Kuanfu 02B	-	-	TYSC	-	-	-	-	-	-
2024-177	2460580.94	2024 Sep 27 1030	Chang Zheng 2D	-	Y44	Shi Jian 19	Shi Jian 19	-	-	JQ	-	-	-	-	-	-
2024-181	2460594.08	2024 Oct 10 1350	Chang Zheng 3B	-	-	HGW 03	HWGGW 3	-	-	XSC	LC2	-	-	-	-	-
2024-185	2460598.96	2024 Oct 15 1106	Chang Zheng 6A	-	Y20	Qianfan Jigui 02	Qianfan Jigui 02	-	-	TYSC	-	-	-	-	-	-
2024-186	2460599.49	2024 Oct 15 2345	Chang Zheng 4C	-	Y59	Gao Fen 12-05	GF12-05	-	-	JQ	LC43/94	-	-	-	-	-
2024-189	2460605.51	2024 Oct 22 0010	Chang Zheng 6	-	Y13	Tianping-3	Tianping-3	-	-	TYSC	-	-	-	-	-	-
2024-190	2460606.55	2024 Oct 23 0109	Chang Zheng 2C	-	Y82	Yaogan 43-03	Yaogan 43-03	-	-	XSC	-	-	-	-	-	-
2024-194	2460613.35	2024 Oct 29 2027:34	Chang Zheng 2F	G	Y19	Shenzhou 19	Shenzhou 19	-	-	JQ	LC43/91	-	-	-	-	-
2024-203	2460623.65	2024 Nov 9 0339	Chang Zheng 2C	-	-	PIESAT-2	PIESAT-2	-	-	JQ	-	-	-	-	-	-
2024-208	2460628.45	2024 Nov 13 2242	Chang Zheng 4B	-	Y53	Haiyang 4-01	HY4-01	-	-	TYSC	-	-	-	-	-	-
2024-211	2460630.13	2024 Nov 15 1513:18	Chang Zheng 7	-	Y9	Tianzhou-8	Tianzhou-8	-	-	WEN	LC201	-	-	-	-	-
2024-218	2460639.49	2024 Nov 24 2339	Chang Zheng 2C	-	Y83	Siwei Gaojing 2-03/04	Superview 2-03/04	-	-	JQ	-	-	-	-	-	-
2024-227	2460647.75	2024 Dec 3 0556	Chang Zheng 3B	-	Y103	TJS 13	TJS 13	-	-	XSC	LC3	-	-	-	-	-
2024-232	2460649.70	2024 Dec 5 0441	Chang Zheng 6A	-	Y22	Qianfan Jigui 03	Qianfan Jigui 03	-	-	TYSC	-	-	-	-	-	-
2024-238	2460656.80	2024 Dec 12 0717	Chang Zheng 2D/YZ-3	-	Y60/Y5	Gaosu Jiguang Zuanzhi	GJZ 1-5	-	-	JQ	LC43/94	-	-	-	-	-
2024-241	2460661.28	2024 Dec 16 1850	Chang Zheng 2D	-	Y99	PIESAT-2 09-12	PIESAT-2 09-12	-	-	TYSC	LC9	-	-	-	-	-
2024-246	2460665.13	2024 Dec 20 1512	Chang Zheng 3B	G2	Y99?	TJS 12	TJS 12	-	-	XSC	-	-	-	-	-	-
2025-002	2460682.33	2025 Jan 6 2000	Chang Zheng 3B	G2	Y104	SJ-25	Shi Jian 25	-	-	XSC	LC3	-	-	-	-	-
2025-012	2460692.67	2025 Jan 17 0407	Chang Zheng 2D	-	Y101	SUPARCO PAK EO-1	PRSC-EO1	-	-	JQ	LC43/94	-	-	-	-	-
2025-016	2460698.72	2025 Jan 23 0515	Chang Zheng 6A	-	Y6	Qianfan Jigui 06	Qianfan Jigui 06	-	-	TYSC	-	-	-	-	-	-
2025-017	2460699.15	2025 Jan 23 1532	Chang Zheng 3B	G2	-	TJS 14	TJS 14	-	-	XSC	-	-	-	-	-	-
2025-030	2460717.90	2025 Feb 11 0930	Chang Zheng 8A	-	Y1	WHWD 02	WHWD 02	-	-	WEN	LC201	-	-	-	-	-
2025-036	2460729.01	2025 Feb 22 1211	Chang Zheng 3B	G2?	Y101	ZX-10R	ZX-10R	-	-	XSC	-	-	-	-	-	-
2025-040	2460733.80	2025 Feb 27 0708	Chang Zheng 2C	-	Y81?	Siwei Gaojing 1-03/04	Superview 1-03/04	-	-	JQ	-	-	-	-	-	-
2025-045	2460744.22	2025 Mar 9 1717	Chang Zheng 3B	G2	-	TJS 15	TJS 15	-	-	XSC	LC3	-	-	-	-	-
2025-046	2460746.19	2025 Mar 11 1638	Chang Zheng 8	-	Y6	Qianfan	Qianfan	-	-	HCSLS	LC1	-	-	-	-	-
2025-051	2460749.67	2025 Mar 15 0411	Chang Zheng 2D	-	Y100	Siwei Gaojing 3-02	Superview 3-02	-	-	JQ	-	-	-	-	-	-
2025-062	2460761.16	2025 Mar 26 1555	Chang Zheng 3B	G3	-	Tianlian 2-04	Tianlian 2-04	-	-	XSC	LC2	-	-	-	-	-
2025-064	2460764.17	2025 Mar 29 1605	Chang Zheng 7A	-	Y11	TJS 16	TJS 16	-	-	WEN	LC201	-	-	-	-	-
2025-067	2460766.67	2025 Apr 1 0400	Chang Zheng 2D	-	Y78	WHWD 06	WHWD 06	-	-	JQ	-	-	-	-	-	-
2025-068	2460768.59	2025 Apr 3 0212	Chang Zheng 6	-	Y14	Tianping 3A-02	Tianping 3A-02	-	-	TYSC	-	-	-	-	-	-
2025-073	2460776.20	2025 Apr 10 1647	Chang Zheng 3B	-	-	TJS 17	TJS 17	-	-	XSC	LC3	-	-	-	-	-
2025-078	2460784.45	2025 Apr 18 2251	Chang Zheng 6A	-	Y11	Shiyan 27	Shiyan 27 01-06	-	-	TYSC	-	-	-	-	-	-
2025-082	2460789.89	2025 Apr 24 0917:31	Chang Zheng 2F	G	Y20	Shenzhou 20	Shenzhou 20	-	-	JQ	LC43/91	-	-	-	-	-
2025-084	2460793.16	2025 Apr 27 1554	Chang Zheng 3B	G3	-	Tianlian 2-05	Tianlian 2-05	-	-	XSC	LC2	-	-	-	-	-
2025-096	2460807.06	2025 May 11 1327	Chang Zheng 6A	-	Y9	Yaogan 40-02	Yaogan 40-02	-	-	TYSC	-	-	-	-	-	-
2025-097	2460808.26	2025 May 12 1809	Chang Zheng 3C	G2?	Y19?	TJS 19	TJS 19	-	-	XSC	-	-	-	-	-	-
2025-100	2460809.67	2025 May 14 0412	Chang Zheng 2D	-	Y107	Xingshidai 27 - 38	Taikong Jisuan WX	-	-	JQ	LC43/94	-	-	-	-	-
2025-106	2460815.99	2025 May 20 1150	Chang Zheng 7A	-	Y15	Zhongxing 3B	ZX-3B	-	-	WEN	LC201	-	-	-	-	-
2025-114	2460824.23	2025 May 28 1731	Chang Zheng 3B	G2	Y110	Tianwen-2	Tianwen-2	-	-	XSC	-	-	-	-	-	-
2025-115	2460824.67	2025 May 29 0412	Chang Zheng 4B	-	Y62	Shi Jian 26	SJ-26	-	-	JQ	-	-	-	-	-	-
2025-121	2460832.36	2025 Jun 5 2045	Chang Zheng 6A	-	Y8	WHWD 04	WHWD 04	-	-	TYSC	-	-	-	-	-	-
2025-128	2460840.83	2025 Jun 14 0756	Chang Zheng 2D	-	Y42	Zhangheng 1-02	ZH1-02	-	-	JQ	-	-	-	-	-	-
2025-132	2460847.03	2025 Jun 20 1237	Chang Zheng 3B	-	-	ZX 9C	ZX 9C	-	-	XSC	LC2	-	-	-	-	-
2025-145	2460859.90	2025 Jul 3 0935	Chang Zheng 4C	-	Y63	Shiyan 28B-01	SY28B-01	-	-	XSC	LC3	-	-	-	-	-
2025-149	2460871.40	2025 Jul 14 2134:23	Chang Zheng 7	-	Y10	Tianzhou-9	Tianzhou-9	-	-	WEN	LC201	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S438	2441204.50	1971 Sep 10	Dong Feng 5	-	-	0.000	CALT	MF	U	-	Test	NIE13-8-71	Harvey	-
1972-S281	2441539.52	1972 Aug 10 0032	Feng Bao 1	-	701-02	0.000	SAST	TS	-	-	Test	LissovC	Harvey	-
1972-A139	2441621.50	1972 Nov	Dong Feng 5	-	-	0.000	CALT	MF	U	-	Test	Brugge	-	-
1973-S477	2441772.50	1973 Apr	Dong Feng 5	-	-	0.000	CALT	MF	U	-	Test	Brugge	NIE13-8-74	-
1973-F07	2441944.01	1973 Sep 18 1212	Feng Bao 1	-	701-03	1.138	SAST	OF	S2U	G	Sat LEO O	LissovC	JBIS55-226	Underperformance
1974-F05	2442241.08	1974 Jul 12 1355	Feng Bao 1	-	701-04	1.108	SAST	OF	S2P	G	Sat LEO O	LissovC	JBIS55-226	Verniers failed
1974-F07	2442356.90	1974 Nov 5 0940	Chang Zheng 2	-	Y1 (3)	1.790	CALT	OF	S1G	G	Sat LEO O	LissovC	-	Rate gyro failed
1975-070	2442620.06	1975 Jul 26 1330	Feng Bao 1	-	701-05	1.107	SAST	OS	-	G	Sat LEO O	LissovC	JBIS55-226	-
1975-111	2442742.64	1975 Nov 26 0327:52	Chang Zheng 2	-	Y2 (4)	1.794	CALT	OS	-	G	Sat LEO O	Lissov/TLE	MTR-1	-
1975-119	2442762.89	1975 Dec 16 0921	Feng Bao 1	-	701-06	1.109	SAST	OS	-	G	Sat LEO O	LissovC	JBIS55-226	-
1976-087	2443020.99	1976 Aug 30 1145	Feng Bao 1	-	701-07	1.108	SAST	OS	-	G	Sat LEO O	LissovC	JBIS55-226	-
1976-F03	2443092.88	1976 Nov 10 0905	Feng Bao 1	-	701-08	1.208	SAST	OF	S2	G	Sat LEO O	LissovC	JBIS55-226	Details unknown
1976-117	2443119.69	1976 Dec 7 0438	Chang Zheng 2C	-	CZ2C-3 (5)	1.791	CALT	OS	-	G	Sat LEO O	MTR-1	-	-
1977-S246	2443400.51	1977 Sep 14 0015	Feng Bao 1	-	701(II)-01	0.000	SAST	TS	-	-	Test	LissovC	JBIS55-226	-
1978-011	2443534.71	1978 Jan 26 0500?	Chang Zheng 2C	-	CZ2C-4 (6)	1.810	CALT	OS	-	G	Sat LEO O	Lissov/TLE	MTR-1	-
1978-S112	2443614.19	1978 Apr 15 1639	Feng Bao 1	-	701(II)-02	0.000	SAST	TS	-	-	Test	LissovC	JBIS55-226	-
1978-S301	2443781.50	1978 Oct	Dong Feng 5	-	-	0.000	CALT	MS	-	-	Test	RPCA	-	-
1979-S34	2443880.50	1979 Jan 7	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	RPCA	-
1979-S290	2443873.50	1979	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	RPCA	-	-
1979-S162	2444069.50	1979 Jul 15	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	-	-
1979-F02	2444082.39	1979 Jul 27 2128	Feng Bao 1	-	XCZ-1-02	0.768	SAST	OF	S2P	G	Sat LEO O	LissovC	JBIS55-226	Verniers failed
1979-S189	2444106.50	1979 Aug 21	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	-	-
1979-S198	2444120.50	1979 Sep 4	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	-	-
1979-S291	2444161.50	1979 Oct 15?	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	RPCA	-	-
1979-S244	2444203.50	1979 Nov 26	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	JCM	RPCA	-
1980-S277	2444284.50	1980 Feb 15	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	-	-
1980-S109	2444377.58	1980 May 18 0200	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	www.fas.org	-	-
1980-S111	2444380.64	1980 May 21 0319	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MF	U	-	Test	www.fas.org	-	-
1981-093	2444867.39	1981 Sep 19 2128:40	Feng Bao 1	-	XCZ-1-02	0.820	SAST	OS	-	G	Sat LEO O	LissovC	JBIS55-226	-
1981-S177	2444945.50	1981 Dec 7	Dong Feng 5	-	-	0.000	PLA2AC/CALT	MS	-	-	Test	Brugge	RPCA	-
1982-090	2445221.80	1982 Sep 9 0719	Chang Zheng 2C	-	Y1	1.781	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1983-086	2445565.75	1983 Aug 19 0600	Chang Zheng 2C	-	Y2	1.844	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1984-008	2445729.02	1984 Jan 29 1225	Chang Zheng 3	-	Y1	0.900	CALT	OF40	S3R	G	Sat GTO O	JCM	-	Turbine overheated
1984-035	2445798.97	1984 Apr 8 1120	Chang Zheng 3	-	Y2	0.920	CALT	OS	-	G	Sat GTO O	JCM	-	-
1984-098	2445955.74	1984 Sep 12 0544	Chang Zheng 2C	-	Y3	1.812	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1985-096	2446359.71	1985 Oct 21 0504	Chang Zheng 2C	-	Y4	1.812	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1986-010	2446463.03	1986 Feb 1 1237	Chang Zheng 3	-	Y3	0.920	CALT	OS	-	G	Sat GTO O	JCM	-	-
1986-076	2446709.74	1986 Oct 6 0540	Chang Zheng 2C	-	Y5	1.771	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1987-067	2447012.78	1987 Aug 5 0639	Chang Zheng 2C	-	Y6	1.810	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1987-075	2447047.80	1987 Sep 9 0715	Chang Zheng 2C	-	Y7	2.070	CALT	OS	-	G	Sat LEO O	MTR-4	-	-
1988-014	2447228.03	1988 Mar 7 1241	Chang Zheng 3	-	Y4	1.040	CALT	OS	-	G	Sat GTO O	PSC/C/89-1	-	-
1988-067	2447378.81	1988 Aug 5 0728:35	Chang Zheng 2C	-	Y8	2.132	CALT	OS	-	G	Sat LEO O 4	MTR-4	-	-
1988-080	2447411.35	1988 Sep 6 2030:19	Chang Zheng 4	-	Y1	0.757	SAST	OS	-	G	Sat SSO O	LissovC	PSC/C/89-1	-
1988-111	2447518.03	1988 Dec 22 1240	Chang Zheng 3	-	Y5	1.040	CALT	OS	-	G	Sat GTO O	PSC/C/89-1	-	-
1989-S134	2447526.50	1989	Dong Feng 5	-	-	0.000	PLA2AC	MS	-	-	Test	RPCA	-	-
1990-011	2447927.02	1990 Feb 4 1227:03	Chang Zheng 3	-	Y6	1.040	CALT	OS	-	G	Sat GTO O	CGWIC-PR	-	-
1990-030	2447989.06	1990 Apr 7 1330:02	Chang Zheng 3	-	Y7	1.244	CALT	OS	-	G	Sat GTO O	AWST900416-25	-	-
1990-059	2448088.53	1990 Jul 16 0040	Chang Zheng 2E	-	Y1	7.400	CALT	OS	-	G	Sat LEO O	JCM	-	-
1990-081	2448137.54	1990 Sep 3 0053	Chang Zheng 4	-	Y2	0.899	SAST	OS	-	G	Sat SSO O	JCM	-	-
1990-089	2448169.76	1990 Oct 5 0614	Chang Zheng 2C	-	Y9	2.081	CALT	OS	-	G	Sat LEO O 4	MTR-4	-	-
1991-088	2448619.00	1991 Dec 28 1200?	Chang Zheng 3	-	Y9	1.040	CALT	OF40	S3P2	G	Sat GTO O	RAE	-	He leak
1992-051	2448843.83	1992 Aug 9 0800	Chang Zheng 2D	a	Y1	2.362	SAST	OS	-	G	Sat LEO O 4	MTR-4	AWST930817-13	-
1992-054	2448848.46	1992 Aug 13 2300	Chang Zheng 2E	-	Y3	7.491	CALT	OS	-	G	Sat GTO OO	SN920817-2	-	-
1992-064	2448901.76	1992 Oct 6 0620:05	Chang Zheng 2C	-	Y10	2.331	CALT	OS	-	G	Sat LEO O 4	Grahn-pc	-	-
1992-090	2448977.97	1992 Dec 21 1121	Chang Zheng 2E	-	Y4	7.591	CALT	OF	FF	G	Sat GTO OO	JCM	-	Stage orbited but PL/FF destroye
1993-063	2449268.83	1993 Oct 8 0800	Chang Zheng 2C	-	Y11	2.104	CALT	OS	-	G	Sat LEO O 4	MTR-4	-	-
1993-S79	2448987.50	1993	Dong Feng 5A	-	- -	0.000	PLA2AC	MS	-	-	Test	RPCA	-	-
1994-010	2449391.86	1994 Feb 8 0833:53	Chang Zheng 3A	-	Y1	1.738	CALT	OS	-	G	Sat GTO O	LissovC	WSL	-
1994-037	2449536.83	1994 Jul 3 0800	Chang Zheng 2D	a	Y2	2.761	SAST	OS	-	G	Sat LEO O 4	WSL	-	-
1994-043	2449554.95	1994 Jul 21 1055	Chang Zheng 3	-	Y8	1.400	CALT	OS	-	G	Sat GTO O	WSL	-	-
1994-055	2449592.47	1994 Aug 27 2310	Chang Zheng 2E	-	Y5	7.491	CALT	OS	-	G	Sat GTO OO	WSL	-	-
1994-080	2449686.21	1994 Nov 29 1702	Chang Zheng 3A	-	Y2	2.232	CALT	OS	-	G	Sat GTO O	WSL	-	-
1995-S91	2449717.50	1995	Dong Feng 5A	-	- -	0.000	PLA2AC	MS	-	-	Test	RPCA	-	-
1995-F01	2449743.44	1995 Jan 25 2240	Chang Zheng 2E	-	Y6	2.900	CALT	OF	FF	G	Sat GTO OO	WSL	AWST950130-29	Fairing f due to winds?
1995-064	2450049.98	1995 Nov 28 1130:05	Chang Zheng 2E	-	Y7	9.445	CALT	OS	-	G	Sat GTO OO	AWST951204-25	-	-
1995-073	2450079.99	1995 Dec 28 1150	Chang Zheng 2E	-	Y8	9.300	CALT	OS	-	G	Sat GTO OO	WSL	-	-
1996-F01	2450128.29	1996 Feb 14 1901	Chang Zheng 3B	-	Y1	3.750	CALT	OF	S1G	G	Sat GTO O	AWST960219-25	-	Casualties
1996-039	2450267.95	1996 Jul 3 1047	Chang Zheng 3	-	Y10A	1.400	CALT	OS	-	G	Sat GTO O	AWST960708-17	-	-
1996-048	2450313.94	1996 Aug 18 1027	Chang Zheng 3	-	Y14	1.384	CALT	OF40	S3P2	G	Sat GTO O	Wire	-	Early shutdown
1996-059	2450376.81	1996 Oct 20 0720	Chang Zheng 2D	a	Y3	2.970	SAST	OS	-	G	Sat LEO O	Wire	-	-
1997-S79	2450448.50	1997	Dong Feng 5A	-	- -	0.000	PLA2AC	MS	-	-	Test	RPCA	-	-
1997-021	2450580.18	1997 May 11 1617	Chang Zheng 3A	-	Y3?	2.267	CALT	OS	-	G	Sat GTO O	Stein	-	-
1997-029	2450610.00	1997 Jun 10 1201	Chang Zheng 3	-	Y11	1.380	CALT	OS	-	G	Sat GTO O	Wire	-	-
1997-042	2450680.24	1997 Aug 19 1750	Chang Zheng 3B	-	Y2	3.775	CALT	OS	-	G	Sat GTO O	Wire	-	-
1997-048	2450693.08	1997 Sep 1 1400:15	Chang Zheng 2C-III/SD	-	Y1	1.997	CALT	OS	-	G	Sat LEO OL 4	LissovC	McDonald-B-priv	-
1997-062	2450738.30	1997 Oct 16 1913	Chang Zheng 3B	-	Y3	3.747	CALT	OS	-	G	Sat STO O	Wire	-	-
1997-077	2450790.80	1997 Dec 8 0716:49	Chang Zheng 2C-III/SD	-	Y2	2.003	CALT	OS	-	G	Sat LEO OL 4	Wire	-	-
1998-018	2450898.21	1998 Mar 25 1701:06	Chang Zheng 2C-III/SD	-	Y3	2.013	CALT	OS	-	G	Sat LEO OL 4	CALT-WWW	-	-
1998-026	2450935.89	1998 May 2 0916:53	Chang Zheng 2C-III/SD	-	Y4	2.013	CALT	OS	-	G	Sat LEO OL 4	CALT-WWW	-	-
1998-033	2450963.92	1998 May 30 1000:04	Chang Zheng 3B	-	Y5	2.917	CALT	OS	-	G	Sat STO O	CALT-WWW	-	-
1998-044	2451012.89	1998 Jul 18 0920	Chang Zheng 3B	-	Y4	2.832	CALT	OS	-	G	Sat GTO O	CALT-WWW	-	-
1998-048	2451045.46	1998 Aug 19 2301:46	Chang Zheng 2C-III/SD	-	Y5	2.013	CALT	OS	-	G	Sat LEO OL 4	CALT-WWW	-	-
1998-074	2451166.99	1998 Dec 19 1139:44	Chang Zheng 2C-III/SD	-	Y6	2.013	CALT	OS	-	G	Sat LEO OL 4	CALT-WWW	-	-
1999-025	2451308.56	1999 May 10 0133:00	Chang Zheng 4B	-	Y2	1.266	SAST	OS	-	G	Sat SSO O 1	CGW-WWW	-	-
1999-032	2451341.22	1999 Jun 11 1715:33	Chang Zheng 2C-III/SD	-	Y7	2.014	CALT	OS	-	G	Sat LEO OL 4	CGW-WWW	-	-
1999-057	2451465.64	1999 Oct 14 0315	Chang Zheng 4B	-	Y1	1.600	SAST	OS	-	G	Sat SSO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-061	2451502.44	1999 Nov 19 2230:04	Chang Zheng 2F	-	Y1	7.703	CALT	OS	-	G	Sat LEO O 4	CALT-WWW	-	-
2000-003	2451569.20	2000 Jan 25 1645:05	Chang Zheng 3A	-	Y4	2.320	CALT	OS	-	G	Sat GTO O	CALT-PR	-	-
2000-032	2451720.99	2000 Jun 25 1150	Chang Zheng 3	-	Y12	1.380	CALT	OS	-	G	Sat GTO O	CALT-WWW	-	-
2000-050	2451788.64	2000 Sep 1 0325	Chang Zheng 4B	-	Y3	1.450	SAST	OS	-	G	Sat SSO O	Wire	-	-
2000-069	2451848.17	2000 Oct 30 1602	Chang Zheng 3A	-	Y5?	2.315	CALT	OS	-	G	Sat GTO O	Wire	-	-
2000-082	2451899.18	2000 Dec 20 1620	Chang Zheng 3A	-	Y6?	2.311	CALT	OS	-	G	Sat GTO O	Wire	-	-
2001-001	2451919.21	2001 Jan 9 1700:03	Chang Zheng 2F	-	Y2	7.700	CALT	OS	-	G	Sat LEO O	Wire	-	-
2002-S85	2452274.50	2002	Dong Feng 5A	-	- -	0.000	PLA2AC	MS	-	-	Test	RPCA	-	-
2002-014	2452359.09	2002 Mar 25 1415:04	Chang Zheng 2F	-	Y3	7.700	CALT	OS	-	G	Sat LEO O	Wire	-	-
2002-024	2452409.58	2002 May 15 0150	Chang Zheng 4B	-	Y5	1.360	SAST	OS	-	G	Sat SSO O 4	Wire	-	-
2002-049	2452574.64	2002 Oct 27 0317	Chang Zheng 4B	-	Y6	1.450	SAST	OS	-	G	Sat SSO O 4	Wire	-	-
2002-061	2452638.19	2002 Dec 29 1640:04	Chang Zheng 2F	-	Y4	7.794	CALT	OS	-	G	Sat LEO O	Wire	-	-
2003-021	2452784.19	2003 May 24 1634:04	Chang Zheng 3A	-	Y7	2.325	CALT	OS	-	G	Sat GTO O	Wire	-	-
2003-045	2452927.54	2003 Oct 15 0100:03	Chang Zheng 2F	-	Y5	7.204	CALT	OS	-	G	Sat LEO O 4	Wire	-	-
2003-049	2452933.64	2003 Oct 21 0316	Chang Zheng 4B	-	Y4	1.538	SAST	OS	-	G	Sat SSO O 4	spaceflightnow.com	-	-
2003-051	2452946.81	2003 Nov 3 0720:04	Chang Zheng 2D	-	Y4	3.092	SAST	OS	-	G	Sat LEO O 4	AeChina2008-5	-	-
2003-052	2452958.17	2003 Nov 14 1601	Chang Zheng 3A	-	Y8	2.307	CALT	OS	-	G	Sat GTO O	Xinhua	-	-
2003-061	2453003.30	2003 Dec 29 1906:18	Chang Zheng 2C	SM	Y1	0.350	CALT	OS	-	G	Sat HEO O	Wire	-	-
2004-012	2453114.17	2004 Apr 18 1559:04	Chang Zheng 2C	a	Y14	0.233	CALT	OS	-	G	Sat SSO O 4	LissovC	-	-
2004-029	2453211.80	2004 Jul 25 0705	Chang Zheng 2C	SM	Y2	0.343	CALT	OS	-	G	Sat HEO O	Wire	-	-
2004-033	2453246.83	2004 Aug 29 0750:05	Chang Zheng 2C	b	Y12	2.352	CALT	OS	-	G	Sat LEO O 4	AeChina2008-5	-	-
2004-035	2453257.47	2004 Sep 8 2314	Chang Zheng 4B	-	Y7	1.400	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	-	-
2004-039	2453275.83	2004 Sep 27 0800:04	Chang Zheng 2D	-	Y5	2.351	SAST	OS	-	G	Sat LEO O	AeChina2008-5	-	-
2004-042	2453297.56	2004 Oct 19 0120:05	Chang Zheng 3A	-	Y9	1.400	CALT	OS	-	G	Sat GTO O	LissovC	xinhuanet.com	-
2004-044	2453315.63	2004 Nov 6 0310	Chang Zheng 4B	-	Y8	1.450	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	-	-
2004-046	2453327.95	2004 Nov 18 1045	Chang Zheng 2C	a	Y15	0.304	CALT	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2005-012	2453473.00	2005 Apr 12 1200	Chang Zheng 3B	-	Y6	4.576	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2005-024	2453557.44	2005 Jul 5 2240	Chang Zheng 2D	-	Y6	1.004	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2005-027	2453584.81	2005 Aug 2 0730:03	Chang Zheng 2C	b	Y13	2.354	CALT	OS	-	G	Sat LEO O 4	AeChina2008-5	xinhuanet.com	-
2005-033	2453611.86	2005 Aug 29 0845:04	Chang Zheng 2D	-	Y7	2.352	SAST	OS	-	G	Sat LEO O 4	AeChina2008-5	xinhuanet.com	-
2005-040	2453655.54	2005 Oct 12 0100:04	Chang Zheng 2F	-	Y6	7.202	CALT	OS	-	G	Sat LEO O 4	xinhuanet.com	-	-
2006-015	2453852.45	2006 Apr 26 2248	Chang Zheng 4C	-	Y1	2.700	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	-	-
2006-035	2453987.79	2006 Sep 9 0700:04	Chang Zheng 2C	b	Y16	2.354	CALT	OS	-	G	Sat LEO O 4	AeChina2008-5	xinhuanet.com	-
2006-038	2453991.17	2006 Sep 12 1602	Chang Zheng 3A	-	Y10	2.330	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2006-046	2454032.48	2006 Oct 23 2334	Chang Zheng 4B	-	Y16	1.400	SAST	OS	-	G	Sat LEO L 4	xinhuanet.com	-	-
2006-048	2454037.18	2006 Oct 28 1620	Chang Zheng 3B	-	Y7	5.107	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2006-053	2454077.54	2006 Dec 8 0053	Chang Zheng 3A	-	Y11	1.390	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2007-003	2454134.19	2007 Feb 2 1628	Chang Zheng 3A	-	Y12	2.299	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2007-010	2454201.64	2007 Apr 11 0327	Chang Zheng 2C	b	Y18	0.440	CALT	OS	-	G	Sat SSO O	xinhuanet.com	-	-
2007-011	2454204.34	2007 Apr 13 2011	Chang Zheng 3A	-	Y13	2.320	CALT	OS	-	G	Sat MTO O	xinhuanet.com	-	-
2007-018	2454234.17	2007 May 13 1601:02	Chang Zheng 3B	G2	Y9	5.086	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2007-019	2454245.80	2007 May 25 0712	Chang Zheng 2D	-	Y8	0.701	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2007-021	2454252.17	2007 May 31 1608	Chang Zheng 3A	-	Y15	2.320	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2007-031	2454287.01	2007 Jul 5 1208	Chang Zheng 3B	-	Y10	4.516	CALT	OS	-	G	Sat STO O	xinhuanet.com	-	-
2007-042	2454362.64	2007 Sep 19 0326:13	Chang Zheng 4B	-	Y17	1.450	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	-	-
2007-051	2454397.92	2007 Oct 24 1005:04	Chang Zheng 3A	-	Y14	2.352	CALT	DS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2007-055	2454416.45	2007 Nov 11 2248:15	Chang Zheng 4C	-	Y3	2.700	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	-	-
2008-019	2454582.15	2008 Apr 25 1535:11	Chang Zheng 3C	-	Y1?	2.475	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2008-026	2454613.63	2008 May 27 0302:33	Chang Zheng 4C	-	Y2	2.200	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2008-028	2454627.01	2008 Jun 9 1215:04	Chang Zheng 3B	-	Y11	4.466	CALT	OS	-	G	Sat STO O	xinhuanet.com	-	-
2008-041	2454715.64	2008 Sep 6 0325:07	Chang Zheng 2C	SMA	Y1	1.024	CALT	OS	-	G	Sat SSO OO 4	xinhuanet.com	-	-
2008-047	2454735.05	2008 Sep 25 1310:05	Chang Zheng 2F	-	Y7	7.244	CALT	OS	-	G	Sat LEO O 4	xinhuanet.com	-	-
2008-053	2454764.55	2008 Oct 25 0115:04	Chang Zheng 4B	-	Y22	1.400	SAST	OS	-	G	Sat SSO L 5	xinhuanet.com	-	-
2008-055	2454769.20	2008 Oct 29 1653:43	Chang Zheng 3B	G2	Y12	5.050	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2008-056	2454775.51	2008 Nov 5 0015:04	Chang Zheng 2D	-	Y12	0.327	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	-	-
2008-061	2454801.70	2008 Dec 1 0442:04	Chang Zheng 2D	-	Y9	0.700	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2008-064	2454815.64	2008 Dec 15 0322:04	Chang Zheng 4B	-	Y20	2.700	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	-	-
2008-066	2454823.54	2008 Dec 23 0054:04	Chang Zheng 3A	-	Y20	1.390	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2009-018	2454936.18	2009 Apr 14 1616:04	Chang Zheng 3C	-	Y3	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2009-021	2454943.62	2009 Apr 22 0255:04	Chang Zheng 2C	b	Y19	2.000	CALT	OS	-	G	Sat SSO L 4	xinhuanet.com	nasaspaceflight.com	-
2009-046	2455074.89	2009 Aug 31 0928	Chang Zheng 3B	-	Y8	4.100	CALT	OF60	S3P2	G	Sat GTO O	xinhuanet.com	-	One engine thrust low
2009-061	2455147.62	2009 Nov 12 0245:44	Chang Zheng 2C	b	Y21	0.304	CALT	OS	-	G	Sat SSO O 4	xinhuanet.com	NK1001-32	-
2009-069	2455174.86	2009 Dec 9 0842	Chang Zheng 2D	-	Y10	0.800	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2009-072	2455180.60	2009 Dec 15 0231:05	Chang Zheng 4C	-	Y4	1.090	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	nasaspaceflight.com	-
2010-S87	2455196.50	2010	Chang Zheng 2C	?	-	0.000	CALT	MS	-	-	Reentry test	nasaspaceflight.com	-	-
2010-001	2455213.18	2010 Jan 16 1612:04	Chang Zheng 3C	-	Y2	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2010-009	2455260.70	2010 Mar 5 0455:05	Chang Zheng 4C	-	Y5	1.500	SAST	OS	-	G	Sat LEO L 4	xinhuanet.com	-	-
2010-024	2455350.16	2010 Jun 2 1553:04	Chang Zheng 3C	-	Y4	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2010-027	2455362.57	2010 Jun 15 0139:04	Chang Zheng 2D	-	Y15	1.000	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2010-036	2455409.40	2010 Jul 31 2130:04	Chang Zheng 3A	-	Y16	2.300	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2010-038	2455418.45	2010 Aug 9 2249:05	Chang Zheng 4C	-	Y6	1.040	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	nasaspaceflight.com	-
2010-040	2455432.80	2010 Aug 24 0710:04	Chang Zheng 2D	-	Y14	1.000	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2010-042	2455444.18	2010 Sep 4 1614:04	Chang Zheng 3B	G2	Y13	5.100	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2010-047	2455461.61	2010 Sep 22 0242:04	Chang Zheng 2D	-	Y11	0.806	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2010-050	2455470.96	2010 Oct 1 1059:57	Chang Zheng 3C	-	Y7	2.480	CALT	DS	-	G	Sat DSO O	xinhuanet.com	-	-
2010-051	2455475.53	2010 Oct 6 0049:05	Chang Zheng 4B	-	Y23	1.400	SAST	OS	-	G	Sat SSO L 4	xinhuanet.com	nasaspaceflight.com	-
2010-057	2455501.18	2010 Oct 31 1626:04	Chang Zheng 3C	-	Y5	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2010-059	2455505.28	2010 Nov 4 1837:12	Chang Zheng 4C	-	Y7	2.200	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2010-064	2455525.17	2010 Nov 24 1609:04	Chang Zheng 3A	-	Y21	2.325	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2010-068	2455548.35	2010 Dec 17 2020:04	Chang Zheng 3A	-	Y18	2.300	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2011-S75	2455561.50	2011	Chang Zheng 2C	?	-	0.000	CALT	MS	-	-	Reentry test	nasaspaceflight.com	-	-
2011-013	2455661.37	2011 Apr 9 2047:04	Chang Zheng 3A	-	Y19	2.300	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2011-026	2455733.18	2011 Jun 20 1613:04	Chang Zheng 3B	G2	Y20	5.100	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2011-030	2455748.69	2011 Jul 6 0428:04	Chang Zheng 2C	b	Y25	0.304	CALT	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2011-032	2455754.15	2011 Jul 11 1541:04	Chang Zheng 3C	-	Y8	2.500	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2011-038	2455769.41	2011 Jul 26 2144:28	Chang Zheng 3A	-	Y17	2.300	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-039	2455771.82	2011 Jul 29 0742:03	Chang Zheng 2C	b	Y24	0.304	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2011-042	2455785.18	2011 Aug 11 1615:04	Chang Zheng 3B	G2	Y19	5.100	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2011-043	2455789.46	2011 Aug 15 2257:19	Chang Zheng 4B	-	Y14	1.500	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2011-F02	2455791.89	2011 Aug 18 0928:03	Chang Zheng 2C	b	Y26	0.304	CALT	OF	S2I	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	Details unclear
2011-047	2455823.19	2011 Sep 18 1633:03	Chang Zheng 3B	G3	Y16	5.320	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2011-053	2455834.05	2011 Sep 29 1316:03	Chang Zheng 2F	T	Y1	8.504	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2011-057	2455841.85	2011 Oct 7 0821:04	Chang Zheng 3B	G2	Y18	5.400	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2011-063	2455866.42	2011 Oct 31 2158:10	Chang Zheng 2F	G	Y8	7.346	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2011-066	2455874.64	2011 Nov 9 0321:05	Chang Zheng 4B	-	Y21	2.758	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2011-068	2455885.51	2011 Nov 20 0015:04	Chang Zheng 2D	-	Y19	0.290	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2011-072	2455895.28	2011 Nov 29 1850:04	Chang Zheng 2C	b	Y20	2.000	CALT	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2011-073	2455897.38	2011 Dec 1 2107:04	Chang Zheng 3A	-	Y23	2.300	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2011-077	2455915.20	2011 Dec 19 1641:03	Chang Zheng 3B	G2	Y21	5.086	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2011-079	2455917.64	2011 Dec 22 0326:14	Chang Zheng 4B	-	Y15	2.100	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2012-S97	2455926.50	2012	Chang Zheng 2C	?	-	0.000	CALT	MS	-	-	Reentry test	nasaspaceflight.com	-	-
2012-001	2455935.64	2012 Jan 9 0317:10	Chang Zheng 4B	-	Y26	2.678	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2012-002	2455939.54	2012 Jan 13 0056:04	Chang Zheng 3A	-	Y22	1.440	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2012-008	2455982.18	2012 Feb 24 1612:04	Chang Zheng 3C	-	Y6	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2012-013	2456017.94	2012 Mar 31 1027:04	Chang Zheng 3B	G2	Y22	4.000	CALT	OS	-	G	Sat STO O	nasaspaceflight.com	xinhuanet.com	-
2012-018	2456047.37	2012 Apr 29 2050:03	Chang Zheng 3B	G1	Y14	4.700	CALT	OS	-	G	Sat MTO O 1	nasaspaceflight.com	xinhuanet.com	-
2012-020	2456053.80	2012 May 6 0710:05	Chang Zheng 2D	-	Y17	1.000	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2012-021	2456057.80	2012 May 10 0706:04	Chang Zheng 4B	-	Y12	3.009	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2012-028	2456074.16	2012 May 26 1556:04	Chang Zheng 3B	G3	Y17	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2012-029	2456076.81	2012 May 29 0731:05	Chang Zheng 4C	-	Y10	1.040	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2012-032	2456094.94	2012 Jun 16 1037:25	Chang Zheng 2F	G	Y9	9.928	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2012-040	2456134.15	2012 Jul 25 1543:04	Chang Zheng 3C	-	Y9	2.462	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2012-S50	2456159.50	2012 Aug 20	Dong Feng 5A	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2012-050	2456189.30	2012 Sep 18 1910:04	Chang Zheng 3B	G1	Y15	4.600	CALT	OS	-	G	Sat MTO O 1	nasaspaceflight.com	xinhuanet.com	-
2012-052	2456199.68	2012 Sep 29 0412:05	Chang Zheng 2D	-	Y16	0.880	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2012-056	2456214.64	2012 Oct 14 0325:05	Chang Zheng 2C	SMA	Y2	1.113	CALT	OS	-	G	Sat SSO LL 4	nasaspaceflight.com	xinhuanet.com	-
2012-059	2456226.15	2012 Oct 25 1533:04	Chang Zheng 3C	-	Y10	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2012-064	2456250.45	2012 Nov 18 2253:05	Chang Zheng 2C	b	Y17	1.180	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2012-066	2456256.67	2012 Nov 25 0406:04	Chang Zheng 4C	-	Y9	1.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2012-067	2456258.93	2012 Nov 27 1013:03	Chang Zheng 3B	G2	Y24	5.054	CALT	OS	-	G	Sat STO O	nasaspaceflight.com	xinhuanet.com	-
2012-073	2456280.18	2012 Dec 18 1613:05	Chang Zheng 2D	-	Y22	0.450	SAST	OS	-	G	Sat SSO P	nasaspaceflight.com	xinhuanet.com	-
2013-018	2456408.68	2013 Apr 26 0413	Chang Zheng 2D	-	Y18	1.070	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2013-020	2456414.17	2013 May 1 1606:04	Chang Zheng 3B	G2	Y25	5.234	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2013-029	2456454.90	2013 Jun 11 0938:03	Chang Zheng 2F	G	Y10	9.929	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2013-035	2456488.89	2013 Jul 15 0927:03	Chang Zheng 2C	b	Y23	0.304	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2013-037	2456493.48	2013 Jul 19 2337:56	Chang Zheng 4C	-	Y11	1.161	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2013-046	2456537.30	2013 Sep 1 1916	Chang Zheng 4C	-	Y13	1.500	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2013-052	2456558.63	2013 Sep 23 0307:17	Chang Zheng 4C	-	Y12	2.200	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2013-057	2456590.66	2013 Oct 25 0350	Chang Zheng 4B	-	Y25	2.000	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2013-059	2456594.62	2013 Oct 29 0250	Chang Zheng 2C	b	Y28	2.000	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2013-065	2456616.65	2013 Nov 20 0331:05	Chang Zheng 4C	-	Y14	1.040	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2013-068	2456621.59	2013 Nov 25 0212	Chang Zheng 2D	-	Y23	0.700	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2013-070	2456628.23	2013 Dec 1 1730:00	Chang Zheng 3B	G2	Y23	3.920	CALT	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2013-F03	2456635.64	2013 Dec 9 0326	Chang Zheng 4B	-	Y10	2.100	SAST	OF	S3P	G	Sat SSO O	zenite.nu	xinhuanet.com	One eng. early shutdown
2013-075	2456647.20	2013 Dec 20 1642:04	Chang Zheng 3B	G2	Y27	5.086	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2014-A04	2456666.50	2014 Jan 9	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2014-014	2456747.62	2014 Mar 31 0246:03	Chang Zheng 2C	b	Y27	0.304	CALT	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2014-A12	2456876.50	2014 Aug 7	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MF	U	-	Test	nasaspaceflight.com	-	-
2014-047	2456878.74	2014 Aug 9 0545:03	Chang Zheng 4C	-	Y15	1.500	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2014-049	2456888.64	2014 Aug 19 0315:04	Chang Zheng 4B	-	Y27	2.107	SAST	OS	-	G	Sat SSO L	zenite.nu	xinhuanet.com	-
2014-051	2456904.51	2014 Sep 4 0015:04	Chang Zheng 2D	-	Y25	0.225	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2014-053	2456908.64	2014 Sep 8 0322:05	Chang Zheng 4B	-	Y28	3.067	SAST	OS	-	G	Sat SSO L	zenite.nu	xinhuanet.com	-
2014-059	2456928.72	2014 Sep 28 0513	Chang Zheng 2C	b	Y31	0.304	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2014-063	2456950.77	2014 Oct 20 0631	Chang Zheng 4C	-	Y16	1.040	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2014-065	2456954.25	2014 Oct 23 1800:04	Chang Zheng 3C	G2	Y12	2.829	CALT	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2014-066	2456957.79	2014 Oct 27 0659:03	Chang Zheng 2C	b	Y32	0.304	CALT	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2014-071	2456976.29	2014 Nov 14 1853:05	Chang Zheng 2C	b	Y35	2.000	CALT	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2014-072	2456981.80	2014 Nov 20 0712:04	Chang Zheng 2D	-	Y24	0.800	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2014-A40	2456993.50	2014 Dec 2	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-
2014-079	2456998.64	2014 Dec 7 0326:04	Chang Zheng 4B	-	Y32	2.100	SAST	OS	-	G	Sat SSO L	zenite.nu	xinhuanet.com	-
2014-080	2457002.31	2014 Dec 10 1933:04	Chang Zheng 4C	-	Y17	1.500	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2014-088	2457018.64	2014 Dec 27 0322:04	Chang Zheng 4B	-	Y29	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2014-090	2457022.54	2014 Dec 31 0102:04	Chang Zheng 3A	-	Y24	1.440	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2015-019	2457112.08	2015 Mar 30 1352:31	Chang Zheng 3C/YZ-1	-	Y11	1.150	CALT	OS	-	G	Sat GEO OO	nasaspaceflight.com	xinhuanet.com	-
2015-A08	2457180.50	2015 Jun 7	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-
2015-030	2457199.77	2015 Jun 26 0622:04	Chang Zheng 4B	-	Y30	2.400	SAST	OS	-	G	Sat SSO L 4	zenite.nu	xinhuanet.com	-
2015-037	2457229.02	2015 Jul 25 1229	Chang Zheng 3B/YZ-1	G3Z	Y26	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2015-A14	2457254.50	2015 Aug 20	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-
2015-040	2457261.61	2015 Aug 27 0231:35	Chang Zheng 4C	-	Y18	1.040	SAST	OS	-	G	Sat SSO L 4	zenite.nu	xinhuanet.com	-
2015-046	2457278.15	2015 Sep 12 1542:04	Chang Zheng 3B	G2	Y32	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2015-047	2457279.70	2015 Sep 14 0442	Chang Zheng 2D	-	Y21	1.700	SAST	OS	-	G	Sat SSO O 4	zenite.nu	-	-
2015-049	2457285.46	2015 Sep 19 2301:14	Chang Zheng 6	-	Y1	0.268	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2015-053	2457295.47	2015 Sep 29 2313	Chang Zheng 3B	G2	Y33	1.150	CALT	OS	-	G	Sat MTO O	nasaspaceflight.com	-	-
2015-057	2457302.68	2015 Oct 7 0413:05	Chang Zheng 2D	-	Y37	0.660	SAST	OS	-	G	Sat SSO D	zenite.nu	NK1512-20	-
2015-059	2457312.18	2015 Oct 16 1616	Chang Zheng 3B	G2	Y36	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2015-061	2457321.80	2015 Oct 26 0710	Chang Zheng 2D	-	Y26	1.000	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2015-063	2457330.18	2015 Nov 3 1625:04	Chang Zheng 3B	G3	Y34	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2015-064	2457334.80	2015 Nov 8 0706:04	Chang Zheng 4B	-	Y24	3.000	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	-	-
2015-067	2457347.17	2015 Nov 20 1607:04	Chang Zheng 3B	G2	Y38	5.086	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2015-A21	2457349.54	2015 Nov 23 0100?	Chang Zheng 2C	?	Hypersonic test	0.000	PLA2AC	MS	-	-	Test	nasaspaceflight.com	-	-
2015-069	2457353.39	2015 Nov 26 2124:05	Chang Zheng 4C	-	Y8	1.040	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	-	-
2015-073	2457366.20	2015 Dec 9 1646	Chang Zheng 3B	G3	Y31	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-078	2457373.51	2015 Dec 17 0012:04	Chang Zheng 2D	-	Y31	1.860	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2015-083	2457385.17	2015 Dec 28 1604	Chang Zheng 3B	G2	Y37	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2016-001	2457403.21	2016 Jan 15 1657	Chang Zheng 3B	G2	Y29	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2016-006	2457419.81	2016 Feb 1 0729	Chang Zheng 3C/YZ-1	-	Y14	1.014	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2016-021	2457477.34	2016 Mar 29 2011	Chang Zheng 3A	-	Y26	2.300	CALT	OS	-	G	Sat MTO O	nasaspaceflight.com	-	-
2016-023	2457484.23	2016 Apr 5 1738	Chang Zheng 2D	-	Y36	2.353	SAST	OS	-	G	Sat LEO O 4	nasaspaceflight.com	xinhuanet.com	-
2016-029	2457523.61	2016 May 15 0243	Chang Zheng 2D	-	Y27	0.800	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2016-033	2457538.64	2016 May 30 0317:04	Chang Zheng 4B	-	Y33	2.724	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2016-037	2457552.15	2016 Jun 12 1530	Chang Zheng 3C	G2?	Y15	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2016-042	2457565.00	2016 Jun 25 1200	Chang Zheng 7/YZ-1A	-	Y1	0.928	CALT	OS	-	G	Sat LEO OD 4	nasaspaceflight.com	-	-
2016-043	2457568.64	2016 Jun 29 0321	Chang Zheng 4B	-	Y35	2.000	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2016-048	2457606.18	2016 Aug 5 1622	Chang Zheng 3B	G3	Y35	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2016-049	2457610.45	2016 Aug 9 2255	Chang Zheng 4C	-	Y19	2.779	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	-	-
2016-051	2457616.24	2016 Aug 15 1740:04	Chang Zheng 2D	-	Y32	0.767	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2016-F01	2457632.29	2016 Aug 31 1855:25	Chang Zheng 4C	-	Y22	3.000	SAST	OF	S3R	G	Sat SSO L	nasaspaceflight.com	-	S3 no restart
2016-057	2457647.09	2016 Sep 15 1404:09	Chang Zheng 2F	T	T2	8.651	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2016-061	2457678.48	2016 Oct 16 2330:31	Chang Zheng 2F	G	Y11	9.928	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2016-068	2457704.47	2016 Nov 11 2314	Chang Zheng 2D	-	Y34	0.800	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	-	-
2016-072	2457715.14	2016 Nov 22 1524:04	Chang Zheng 3C	G2	Y13	2.500	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2016-077	2457733.17	2016 Dec 10 1611	Chang Zheng 3B	G3	Y42	5.380	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2016-081	2457744.31	2016 Dec 21 1922:04	Chang Zheng 2D	-	Y33	0.766	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2016-083	2457750.64	2016 Dec 28 0323	Chang Zheng 2D	-	Y39	1.210	SAST	OS75	S1U	G	Sat SSO L	nasaspaceflight.com	-	Orbit despite S1 issue
2017-001	2457759.14	2017 Jan 5 1518:04	Chang Zheng 3B	G2	Y39	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2017-S05	2457768.50	2017 Jan 15	Dong Feng 5C	-	-	0.000	PLA2AC	MS	-	-	Test	freebeacon.com	-	-
2017-018	2457855.96	2017 Apr 12 1104:04	Chang Zheng 3B	G2	Y43	4.600	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2017-021	2457863.99	2017 Apr 20 1141:35	Chang Zheng 7	-	Y2	12.914	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	-	-
2017-034	2457919.62	2017 Jun 15 0300	Chang Zheng 4B	-	Y31	3.137	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	-	-
2017-035	2457923.17	2017 Jun 18 1611	Chang Zheng 3B	G2	Y28	5.250	CALT	OF40	S3G2	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	Roll thrusters f. in 2nd burn
2017-058	2458025.68	2017 Sep 29 0421:05	Chang Zheng 2C	b	Y29	1.500	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2017-060	2458035.68	2017 Oct 9 0413:14	Chang Zheng 2D	-	Y30	0.942	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	-	-
2017-069	2458062.99	2017 Nov 5 1145	Chang Zheng 3B/YZ-1	G3Z	Y46	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2017-072	2458072.27	2017 Nov 14 1835:55	Chang Zheng 4C	-	Y21	3.496	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2017-074	2458078.70	2017 Nov 21 0450	Chang Zheng 6	-	Y2	0.285	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2017-075	2458082.26	2017 Nov 24 1810:05	Chang Zheng 2C	b	Y33	1.500	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2017-077	2458090.67	2017 Dec 3 0411	Chang Zheng 2D	-	Y47	2.004	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2017-078	2458098.19	2017 Dec 10 1640:04	Chang Zheng 3B	G2	Y40	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2017-084	2458110.68	2017 Dec 23 0414	Chang Zheng 2D	-	Y48	2.004	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2017-085	2458113.32	2017 Dec 25 1944	Chang Zheng 2C	b	Y34	1.500	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2018-002	2458127.64	2018 Jan 9 0324:33	Chang Zheng 2D	-	Y40	1.204	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	-	-
2018-003	2458130.47	2018 Jan 11 2318:04	Chang Zheng 3B/YZ-1	G3Z	Y45	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-006	2458131.80	2018 Jan 13 0710	Chang Zheng 2D	-	Y49	2.004	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2018-011	2458143.74	2018 Jan 25 0539:05	Chang Zheng 2C	b	Y36	1.505	CALT	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2018-015	2458151.83	2018 Feb 2 0751:04	Chang Zheng 2D	-	Y13	0.830	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2018-018	2458161.71	2018 Feb 12 0503:04	Chang Zheng 3B/YZ-1	G3Z	Y47	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-025	2458194.80	2018 Mar 17 0710:04	Chang Zheng 2D	-	Y50	2.004	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2018-029	2458207.25	2018 Mar 29 1756:04	Chang Zheng 3B/YZ-1	G3Z	Y48	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-031	2458208.64	2018 Mar 31 0322:08	Chang Zheng 4C	-	Y26	2.415	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	-	-
2018-034	2458218.68	2018 Apr 10 0425:03	Chang Zheng 4C	-	Y25	1.510	SAST	OS	-	G	Sat LEO O 4	xinhuanet.com	-	-
2018-041	2458242.17	2018 May 3 1606:05	Chang Zheng 3B	G2	Y55	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2018-043	2458247.27	2018 May 8 1828:40	Chang Zheng 4C	-	Y20	2.700	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2018-045	2458259.40	2018 May 20 2128:50	Chang Zheng 4C	-	Y27	0.515	SAST	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2018-048	2458271.68	2018 Jun 2 0413:04	Chang Zheng 2D	-	Y20	1.078	SAST	OS	-	G	Sat SSO O 4	xinhuanet.com	-	-
2018-050	2458275.05	2018 Jun 5 1307:04	Chang Zheng 3A	-	Y25	1.440	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2018-054	2458296.65	2018 Jun 27 0330:06	Chang Zheng 2C	b	Y44	1.000	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2018-056	2458308.66	2018 Jul 9 0356:14	Chang Zheng 2C	SMA	Y3	1.135	CALT	OS	-	G	Sat SSO OL 4	xinhuanet.com	-	-
2018-057	2458309.37	2018 Jul 9 2058:04	Chang Zheng 3A	-	Y27	2.300	CALT	OS	-	G	Sat MTO O	nasaspaceflight.com	-	-
2018-062	2458328.58	2018 Jul 29 0148:05	Chang Zheng 3B/YZ-1	G3Z	Y49	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-063	2458330.63	2018 Jul 31 0300:04	Chang Zheng 4B	-	Y37	3.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2018-067	2458355.49	2018 Aug 24 2352:04	Chang Zheng 3B/YZ-1	G3Z	Y50	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-068	2458368.64	2018 Sep 7 0315:05	Chang Zheng 2C	b	Y39	0.442	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2018-072	2458381.09	2018 Sep 19 1407:04	Chang Zheng 3B/YZ-1	G3Z	Y51	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-077	2458400.61	2018 Oct 9 0243:03	Chang Zheng 2C/YZ-1S	-	Y38	1.200	CALT	OS	-	G	Sat SSO SD	xinhuanet.com	-	-
2018-078	2458406.68	2018 Oct 15 0423:04	Chang Zheng 3B/YZ-1	G3Z	Y52	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-081	2458416.46	2018 Oct 24 2257	Chang Zheng 4B	-	Y34	2.521	SAST	OS	-	G	Sat SSO D 4	nasaspaceflight.com	xinhuanet.com	-
2018-083	2458420.53	2018 Oct 29 0043:14	Chang Zheng 2C	b	Y22	0.752	CALT	OS	-	G	Sat SSO L	xinhuanet.com	-	-
2018-085	2458424.16	2018 Nov 1 1557:04	Chang Zheng 3B	G3	Y41	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2018-093	2458441.25	2018 Nov 18 1807:04	Chang Zheng 3B/YZ-1	G3Z	Y53	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	-	-
2018-094	2458442.49	2018 Nov 19 2340:04	Chang Zheng 2D	-	Y28	1.100	SAST	OS	-	G	Sat SSO D	xinhuanet.com	-	-
2018-102	2458459.67	2018 Dec 7 0412	Chang Zheng 2D	-	Y38	1.033	SAST	OS	-	G	Sat SSO D 4	xinhuanet.com	-	-
2018-103	2458460.27	2018 Dec 7 1823	Chang Zheng 3B	G2	Y30	3.920	CALT	DS	-	G	Sat DSO O	nasaspaceflight.com	xinhuanet.com	-
2018-110	2458477.20	2018 Dec 24 1653:04	Chang Zheng 3C	G2?	Y17	3.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2018-112	2458481.83	2018 Dec 29 0800:05	Chang Zheng 2D/YZ-3	-	Y35	1.100	SAST	OS	-	G	Sat LEO OD	xinhuanet.com	-	-
2019-001	2458494.22	2019 Jan 10 1711:04	Chang Zheng 3B	G3	Y56	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-012	2458552.19	2019 Mar 9 1628:04	Chang Zheng 3B	G3	Y54	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-017	2458574.16	2019 Mar 31 1551:04	Chang Zheng 3B	G2	Y44	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-023	2458594.11	2019 Apr 20 1441:03	Chang Zheng 3B	G2	Y59	3.060	CALT	OS	-	G	Sat GTO O	xinhuanet.com	-	-
2019-024	2458603.45	2019 Apr 29 2252:05	Chang Zheng 4B	-	Y36	2.100	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2019-027	2458621.16	2019 May 17 1548:05	Chang Zheng 3C	G2?	Y16	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-F04	2458626.45	2019 May 22 2249	Chang Zheng 4C	-	Y23	1.040	SAST	OF	S3R	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	S3 restart failed
2019-035	2458659.26	2019 Jun 24 1809	Chang Zheng 3B	G2	Y60	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-045	2458690.66	2019 Jul 26 0357	Chang Zheng 2C	b	Y37	1.500	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2019-053	2458715.00	2019 Aug 19 1203	Chang Zheng 3B	G2	Y58	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-059	2458738.64	2019 Sep 12 0326	Chang Zheng 4B	-	Y39	1.860	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2019-061	2458749.38	2019 Sep 22 2110:04	Chang Zheng 3B/YZ-1	G3Z	Y65	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2019-063	2458751.54	2019 Sep 25 0054:34	Chang Zheng 2D	-	Y43	0.800	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2019-066	2458761.29	2019 Oct 4 1851:05	Chang Zheng 4C	-	Y33	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-070	2458774.14	2019 Oct 17 1521:04	Chang Zheng 3B	G2	Y57	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-072	2458790.64	2019 Nov 3 0322	Chang Zheng 4B	-	Y38	2.570	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2019-073	2458792.24	2019 Nov 4 1743:04	Chang Zheng 3B	G2	Y61	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2019-076	2458800.77	2019 Nov 13 0635	Chang Zheng 6	-	Y4	0.500	SAST	OS	-	G/C	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2019-078	2458810.54	2019 Nov 23 0055	Chang Zheng 3B/YZ-1	G3Z	Y66	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2019-082	2458815.49	2019 Nov 27 2352	Chang Zheng 4C	-	Y24	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2019-090	2458833.81	2019 Dec 16 0722	Chang Zheng 3B/YZ-1	G3Z	Y67	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2019-093	2458837.64	2019 Dec 20 0322:29	Chang Zheng 4B	-	Y44	2.513	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2020-002	2458856.14	2020 Jan 7 1520	Chang Zheng 3B	G2	Y62	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-003	2458863.62	2020 Jan 15 0253:04	Chang Zheng 2D	-	Y58	1.368	SAST	OS	-	G/C	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2020-014	2458899.38	2020 Feb 19 2107:41	Chang Zheng 2D	-	Y61	1.100	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2020-017	2458918.00	2020 Mar 9 1155	Chang Zheng 3B	G2	Y69	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-F02	2458925.07	2020 Mar 16 1334	Chang Zheng 7A	-	Y1	5.000	CALT	OF	S2P	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	S2 late ig, malf.
2020-021	2458932.65	2020 Mar 24 0343:05	Chang Zheng 2C	b	Y42	1.500	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2020-F03	2458948.99	2020 Apr 9 1146	Chang Zheng 3B	G2	Y71	5.550	CALT	OF	S3P	G/C	Sat GTO O	nasaspaceflight.com	xinhuanet.com	S3 failed mid burn
2020-034	2459000.87	2020 May 31 0853	Chang Zheng 2D	-	Y51	1.745	SAST	OS	-	G	Sat SSO D 4	nasaspaceflight.com	xinhuanet.com	-
2020-036	2459011.27	2020 Jun 10 1831:24	Chang Zheng 2C	b	Y40?	0.442	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2020-039	2459017.80	2020 Jun 17 0719:04	Chang Zheng 2D	-	Y52	1.757	SAST	OS	-	G	Sat SSO O 4	nasaspaceflight.com	xinhuanet.com	-
2020-040	2459023.57	2020 Jun 23 0143:04	Chang Zheng 3B	G2	Y68	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-042	2459033.63	2020 Jul 3 0310	Chang Zheng 4B	-	Y43	2.410	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2020-043	2459035.49	2020 Jul 4 2344:04	Chang Zheng 2D	-	Y29	1.000	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2020-045	2459040.01	2020 Jul 9 1211:04	Chang Zheng 3B	G2	Y64	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-051	2459055.63	2020 Jul 25 0313	Chang Zheng 4B	-	Y45	2.490	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2020-054	2459067.67	2020 Aug 6 0401	Chang Zheng 2D	-	Y56	1.710	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2020-058	2459084.60	2020 Aug 23 0227:04	Chang Zheng 2D	-	Y57	1.730	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2020-063	2459096.81	2020 Sep 4 0730?	Chang Zheng 2F	T	T3	8.504	CALT	OS	-	G	Sat LSS O 4	TLE	xinhuanet.com	-
2020-064	2459099.75	2020 Sep 7 0557:05	Chang Zheng 4B	-	Y46	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2020-066	2459113.74	2020 Sep 21 0540:04	Chang Zheng 4B	-	Y41	1.500	SAST	OS	-	G	Sat LEO L 4	nasaspaceflight.com	xinhuanet.com	-
2020-067	2459119.64	2020 Sep 27 0323:04	Chang Zheng 4B	-	Y42	1.020	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2020-071	2459134.21	2020 Oct 11 1657:04	Chang Zheng 3B	G2	Y63	4.600	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-076	2459149.14	2020 Oct 26 1519:05	Chang Zheng 2C	-	Y43	1.540	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2020-079	2459159.64	2020 Nov 6 0319:15	Chang Zheng 6	-	Y3	0.580	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2020-082	2459166.17	2020 Nov 12 1559	Chang Zheng 3B	G2	Y73	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2020-092	2459189.67	2020 Dec 6 0357:37	Chang Zheng 3B	G5	Y70	6.500	CALT	OS	-	G	Sat SSO L	tw/cnspaceflight	xinhuanet.com	-
2020-102	2459205.69	2020 Dec 22 0437:37	Chang Zheng 8	-	Y1	5.255	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2020-103	2459211.16	2020 Dec 27 1544	Chang Zheng 4C	-	Y35	1.050	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-003	2459234.18	2021 Jan 19 1625	Chang Zheng 3B	G2	Y74	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-007	2459243.70	2021 Jan 29 0447	Chang Zheng 4C	-	Y31	1.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-010	2459250.15	2021 Feb 4 1536:04	Chang Zheng 3B	G2	Y77	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-014	2459269.60	2021 Feb 24 0222	Chang Zheng 4C	-	Y32	1.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-019	2459285.24	2021 Mar 11 1751:28	Chang Zheng 7A	-	Y2	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-020	2459286.60	2021 Mar 13 0219	Chang Zheng 4C	-	Y42	1.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-026	2459304.45	2021 Mar 30 2245	Chang Zheng 4C	-	Y36	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-028	2459313.46	2021 Apr 8 2301	Chang Zheng 4B	-	Y49	1.500	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-033	2459331.64	2021 Apr 27 0320	Chang Zheng 6	-	Y5	0.537	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-037	2459334.81	2021 Apr 30 0727	Chang Zheng 4C	-	Y34	0.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-039	2459341.26	2021 May 6 1811:05	Chang Zheng 2C	-	Y47	1.540	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-043	2459353.67	2021 May 19 0403	Chang Zheng 4B	-	Y48	1.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-046	2459364.04	2021 May 29 1255:29	Chang Zheng 7	-	Y3	18.600	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2021-047	2459368.18	2021 Jun 2 1617	Chang Zheng 3B	G2	Y72	5.380	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-050	2459376.63	2021 Jun 11 0303	Chang Zheng 2D	-	Y54	3.102	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2021-053	2459382.56	2021 Jun 17 0122:32	Chang Zheng 2F	G	Y12	9.924	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2021-055	2459383.77	2021 Jun 18 0630	Chang Zheng 2C	-	Y48	1.540	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2021-061	2459398.62	2021 Jul 3 0251	Chang Zheng 2D	-	Y74	1.386	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2021-062	2459400.48	2021 Jul 4 2328	Chang Zheng 4C	-	Y43	2.452	SAST	OS	-	G	Sat SSO L 4	nasaspaceflight.com	xinhuanet.com	-
2021-063	2459402.16	2021 Jul 6 1553	Chang Zheng 3C	G2?	Y18	2.500	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-064	2459405.00	2021 Jul 9 1159	Chang Zheng 6	-	Y6	0.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-065	2459414.51	2021 Jul 19 0019	Chang Zheng 2C	-	Y49	1.540	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-067	2459424.67	2021 Jul 29 0401	Chang Zheng 2D	-	Y62	1.000	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2021-U01	2459422.50	2021 Jul 27?	Chang Zheng 2C	-	-	1.000	CALT	OS	-	G	Sat LEO O	FT-211020	-	-
2021-070	2459430.96	2021 Aug 4 1101	Chang Zheng 6	-	Y7	0.200	SAST	OS	-	G/C	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2021-071	2459432.19	2021 Aug 5 1630:04	Chang Zheng 3B	G2	Y76	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-074	2459445.44	2021 Aug 18 2232	Chang Zheng 4B	-	Y50	2.100	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-076	2459450.97	2021 Aug 24 1115	Chang Zheng 2C/YZ-1S	-	Y51	0.850	CALT	OS	-	G	Sat LEO SD	nasaspaceflight.com	xinhuanet.com	-
2021-077	2459451.15	2021 Aug 24 1541	Chang Zheng 3B	-	Y78	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-079	2459464.63	2021 Sep 7 0301	Chang Zheng 4C	-	Y40	2.700	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-080	2459466.99	2021 Sep 9 1150	Chang Zheng 3B	-	Y86	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-085	2459477.80	2021 Sep 20 0710:11	Chang Zheng 7	-	Y4	18.600	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2021-087	2459484.85	2021 Sep 27 0820	Chang Zheng 3B	G2	Y81	4.600	CALT	OS	-	G	Sat MOL O	nasaspaceflight.com	xinhuanet.com	-
2021-091	2459501.95	2021 Oct 14 1051	Chang Zheng 2D	-	Y53	0.887	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2021-092	2459503.18	2021 Oct 15 1623:44	Chang Zheng 2F	G	Y13	9.924	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2021-094	2459511.56	2021 Oct 24 0127	Chang Zheng 3B	G2	Y83	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-099	2459521.82	2021 Nov 3 0743	Chang Zheng 2C/YZ-1S	-	Y41	1.200	CALT	OS	-	G	Sat SSO SP	nasaspaceflight.com	xinhuanet.com	-
2021-100	2459523.60	2021 Nov 5 0219	Chang Zheng 6	-	Y8	0.500	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2021-101	2459524.62	2021 Nov 6 0300	Chang Zheng 2D	-	Y63	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2021-107	2459538.58	2021 Nov 20 0151	Chang Zheng 4B	-	Y52	3.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2021-109	2459541.49	2021 Nov 22 2345	Chang Zheng 4C	-	Y37	2.779	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-114	2459545.19	2021 Nov 26 1640:04	Chang Zheng 3B	G3	Y79	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-122	2459558.51	2021 Dec 10 0011:30	Chang Zheng 4B	-	Y47	1.400	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-124	2459562.17	2021 Dec 13 1609	Chang Zheng 3B	G3	Y82	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2021-129	2459571.92	2021 Dec 23 1012	Chang Zheng 7A	-	Y3	6.000	CALT	OS	-	G	Sat GTO O 1	nasaspaceflight.com	xinhuanet.com	-
2021-131	2459574.63	2021 Dec 26 0311:31	Chang Zheng 4C	-	Y39	1.851	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2021-134	2459577.97	2021 Dec 29 1113	Chang Zheng 2D	-	Y41	2.000	SAST	OS	-	G	Sat LEO D	nasaspaceflight.com	xinhuanet.com	-
2021-135	2459578.20	2021 Dec 29 1643	Chang Zheng 3B	G3	Y84	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2022-004	2459596.61	2022 Jan 17 0235	Chang Zheng 2D	-	Y70	0.500	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2022-007	2459605.49	2022 Jan 25 2344	Chang Zheng 4C	-	Y29	3.201	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-018	2459637.49	2022 Feb 26 2344	Chang Zheng 4C	-	Y30	3.200	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-019	2459637.63	2022 Feb 27 0306:28	Chang Zheng 8	0	Y2	1.759	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-023	2459643.75	2022 Mar 5 0601	Chang Zheng 2C	-	Y62	1.147	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2022-027	2459655.80	2022 Mar 17 0709	Chang Zheng 4C	-	Y47	0.510	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2022-031	2459667.91	2022 Mar 29 0950	Chang Zheng 6A	-	Y1	2.090	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2022-035	2459676.49	2022 Apr 6 2347	Chang Zheng 4C	-	Y38	2.779	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-038	2459685.00	2022 Apr 15 1200	Chang Zheng 3B	-	Y89	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2022-039	2459685.26	2022 Apr 15 1816	Chang Zheng 4C	-	Y28	2.640	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-043	2459698.67	2022 Apr 29 0411:33	Chang Zheng 2C	-	Y70	1.080	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-048	2459704.61	2022 May 5 0238	Chang Zheng 2D	-	Y79	1.544	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2022-050	2459709.25	2022 May 9 1756:37	Chang Zheng 7	-	Y5	17.420	CALT	OS	-	G/C	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2022-056	2459719.94	2022 May 20 1030	Chang Zheng 2C/YZ-1S	-	Y53/Y5	0.850	CALT	OS	-	G	Sat LEO SP	nasaspaceflight.com	xinhuanet.com	-
2022-058	2459732.67	2022 Jun 2 0400	Chang Zheng 2C	-	Y65	1.170	CALT	OS	-	G/C	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2022-060	2459735.61	2022 Jun 5 0244:10	Chang Zheng 2F	G	Y14	9.928	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2022-068	2459753.60	2022 Jun 23 0222	Chang Zheng 2D	-	Y64	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-069	2459758.16	2022 Jun 27 1546	Chang Zheng 4C	-	Y46	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-078	2459773.19	2022 Jul 12 1630	Chang Zheng 3B	G2	Y85	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2022-082	2459776.46	2022 Jul 15 2257:16	Chang Zheng 2C	-	Y71	1.200	CALT	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2022-088	2459790.06	2022 Jul 29 1328	Chang Zheng 2D	-	Y65	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-090	2459795.63	2022 Aug 4 0308	Chang Zheng 4B	-	Y40	1.645	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2022-093	2459796.17	2022 Aug 4 1600?	Chang Zheng 2F	T	T4	8.505	CALT	OS	-	G	Sat SSO D	TLE	xinhuanet.com	-
2022-098	2459801.70	2022 Aug 10 0450	Chang Zheng 6	-	Y10	0.672	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2022-100	2459811.23	2022 Aug 19 1737	Chang Zheng 2D	-	Y66	5.306	SAST	OS	-	G	Sat SSO D	english.news.cn	nasaspaceflight.com	-
2022-103	2459815.63	2022 Aug 24 0301	Chang Zheng 2D	-	Y75	4.000	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-106	2459825.49	2022 Sep 2 2344	Chang Zheng 4C	-	Y52	1.040	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2022-109	2459828.68	2022 Sep 6 0419	Chang Zheng 2D	-	Y67	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-112	2459836.05	2022 Sep 13 1318:47	Chang Zheng 7A	-	Y5	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2022-115	2459843.47	2022 Sep 20 2315	Chang Zheng 2D	-	Y76	0.800	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2022-120	2459849.07	2022 Sep 26 1338	Chang Zheng 2D	-	Y68	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-121	2459849.49	2022 Sep 26 2350	Chang Zheng 6	-	Y9	0.300	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2022-129	2459861.49	2022 Oct 8 2343	Chang Zheng 2D	-	Y55	0.888	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2022-132	2459865.45	2022 Oct 12 2253	Chang Zheng 2C	-	Y66	0.510	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2022-133	2459867.30	2022 Oct 14 1912	Chang Zheng 2D	-	Y69	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-142	2459881.54	2022 Oct 29 0101	Chang Zheng 2D	-	Y72	1.300	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-148	2459888.99	2022 Nov 5 1150	Chang Zheng 3B	-	Y91	5.250	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-151	2459895.45	2022 Nov 11 2252	Chang Zheng 6A	-	Y2	1.500	SAST	OS	-	G/C	Sat SSO O	nasaspaceflight.com	-	-
2022-152	2459895.59	2022 Nov 12 0203:12	Chang Zheng 7	-	Y6	18.222	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2022-154	2459898.57	2022 Nov 15 0138	Chang Zheng 4C	-	Y48	0.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2022-160	2459911.02	2022 Nov 27 1223	Chang Zheng 2D	-	Y89	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-162	2459913.13	2022 Nov 29 1508:17	Chang Zheng 2F	G	Y15	9.924	CALT	OS	-	G	Sat LSS O 4	nasaspaceflight.com	xinhuanet.com	-
2022-165	2459922.27	2022 Dec 8 1831	Chang Zheng 2D	-	Y45	2.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2022-169	2459925.85	2022 Dec 12 0822	Chang Zheng 4C	-	Y57	1.100	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2022-171	2459928.27	2022 Dec 14 1825	Chang Zheng 2D	-	Y80	5.306	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-176	2459940.82	2022 Dec 27 0737	Chang Zheng 4B	-	Y55	3.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2022-178	2459942.70	2022 Dec 29 0443	Chang Zheng 3B	G2	Y88	4.600	SAST	OS	-	G	Sat MOL O	nasaspaceflight.com	-	-
2023-002	2459953.42	2023 Jan 8 2200	Chang Zheng 7A	-	Y4	5.200	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2023-005	2459957.26	2023 Jan 12 1810	Chang Zheng 2C	-	Y61	4.300	CALT	OS	-	G/C	Sat LEO O	nasaspaceflight.com	-	-
2023-006	2459957.79	2023 Jan 13 0700	Chang Zheng 2D	-	Y73	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-007	2459959.63	2023 Jan 15 0314?	Chang Zheng 2D	-	Y71	0.964	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2023-023	2459998.99	2023 Feb 23 1149	Chang Zheng 3B	G2	Y93	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2023-025	2459999.67	2023 Feb 24 0401	Chang Zheng 2C	-	Y63	0.330	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-030	2460013.45	2023 Mar 9 2241	Chang Zheng 4C	-	Y51	2.050	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2023-032	2460016.67	2023 Mar 13 0402	Chang Zheng 2C	-	Y64	0.330	CALT	OS	-	G/OG	Sat LEO O	nasaspaceflight.com	-	-
2023-036	2460020.86	2023 Mar 17 0833	Chang Zheng 3B	G2	Y90	4.600	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2023-047	2460033.95	2023 Mar 30 1050	Chang Zheng 2D	-	Y90	1.130	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2023-048	2460034.77	2023 Mar 31 0627	Chang Zheng 4C	-	Y49	0.500	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2023-055	2460050.57	2023 Apr 16 0136:30	Chang Zheng 4B	-	Y51	2.450	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2023-063	2460075.06	2023 May 10 1322:51	Chang Zheng 7	-	Y7	19.717	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2023-066	2460081.62	2023 May 17 0249	Chang Zheng 3B	G2	Y87	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2023-069	2460085.83	2023 May 21 0800	Chang Zheng 2C	-	Y60	0.753	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2023-077	2460094.56	2023 May 30 0131:13	Chang Zheng 2F	G	Y16	9.946	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-
2023-085	2460110.73	2023 Jun 15 0530	Chang Zheng 2D	-	Y88	1.722	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	xinhuanet.com	-
2023-087	2460115.64	2023 Jun 20 0318	Chang Zheng 6	-	Y12	0.100	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2023-095	2460134.96	2023 Jul 9 1100	Chang Zheng 2C/YZ-1S	-	Y52/Y3	0.600	CALT	OS	-	G	Sat LEO SP	nasaspaceflight.com	xinhuanet.com	-
2023-104	2460148.62	2023 Jul 23 0250	Chang Zheng 2D	-	Y91	0.600	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2023-106	2460152.33	2023 Jul 26 2002	Chang Zheng 2D	-	Y81	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-111	2460159.66	2023 Aug 3 0347:47	Chang Zheng 4C	-	Y44	2.450	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2023-116	2460165.45	2023 Aug 8 2253	Chang Zheng 2C	-	Y46	0.510	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-120	2460169.23	2023 Aug 12 1726	Chang Zheng 3B	G2	Y92	3.060	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2023-123	2460177.24	2023 Aug 20 1745	Chang Zheng 4C	-	Y56	3.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-130	2460187.82	2023 Aug 31 0736	Chang Zheng 2D	-	Y82	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-136	2460194.26	2023 Sep 6 1814	Chang Zheng 4C	-	Y53	1.040	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2023-139	2460197.69	2023 Sep 10 0430	Chang Zheng 6A	-	Y5	1.500	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-145	2460204.68	2023 Sep 17 0413	Chang Zheng 2D	-	Y83	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-149	2460214.34	2023 Sep 26 2015	Chang Zheng 4C	-	Y54	1.040	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2023-152	2460222.52	2023 Oct 5 0024	Chang Zheng 2D	-	Y84	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-159	2460232.54	2023 Oct 15 0054	Chang Zheng 2D	-	Y77	0.800	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-163	2460241.34	2023 Oct 23 2003	Chang Zheng 2D	-	Y85	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-164	2460243.63	2023 Oct 26 0314:02	Chang Zheng 2F	G	Y17	9.942	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-
2023-168	2460249.45	2023 Oct 31 2250	Chang Zheng 6A	-	Y4	2.050	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2023-169	2460252.12	2023 Nov 3 1454	Chang Zheng 7A	-	Y6	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2023-172	2460257.97	2023 Nov 9 1123	Chang Zheng 3B	G2	Y94	5.250	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2023-176	2460264.66	2023 Nov 16 0355	Chang Zheng 2C/YZ-1S	-	Y56/Y9	1.500	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-181	2460271.92	2023 Nov 23 1000:04	Chang Zheng 2D/YZ-3	-	Y59/Y2	0.900	SAST	OS	-	G	Sat LEO D	nasaspaceflight.com	-	-
2023-187	2460282.67	2023 Dec 4 0410	Chang Zheng 2C	-	Y54	0.420	SAST	OS	-	G/OG	Sat SSO O	nasaspaceflight.com	-	-
2023-194	2460288.58	2023 Dec 10 0158	Chang Zheng 2D	-	Y86	1.200	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-195	2460293.09	2023 Dec 14 1412?	Chang Zheng 2F	T	T5	8.004	CALT	OS	-	G	Sat SSO D	TLE	xinhuanet.com	-
2023-207	2460304.64	2023 Dec 26 0326	Chang Zheng 3B/YZ-1	G3Z	Y75/Y16	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2023-212	2460308.51	2023 Dec 30 0013	Chang Zheng 2C/YZ-1S	-	Y55/Y10?	0.900	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2024-007	2460318.79	2024 Jan 9 0703	Chang Zheng 2C	-	Y30	1.450	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2024-013	2460327.10	2024 Jan 17 1427:30	Chang Zheng 7	-	Y8	18.860	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2024-023	2460343.48	2024 Feb 2 2337	Chang Zheng 2C	-	Y85	1.430	CALT	OS	-	G/C	Sat LEO O	nasaspaceflight.com	news.cn	-
2024-040	2460370.04	2024 Feb 29 1303	Chang Zheng 3B	G2	Y95	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-048	2460383.04	2024 Mar 13 1251	Chang Zheng 2C/YZ-1S	-	-	0.801	CALT	OS?5	S3P	G	Sat EEO OO	nasaspaceflight.com	xinhuanet.com	YZ-1S underburn
2024-051	2460389.52	2024 Mar 20 0031:28	Chang Zheng 8	-	Y3	1.276	CALT	OS	-	G	Sat EEO O	nasaspaceflight.com	xinhuanet.com	-
2024-052	2460390.73	2024 Mar 21 0527	Chang Zheng 2D/YZ-3	-	Y87/Y3	0.600	SAST	OS	-	G/C	Sat LEO O	nasaspaceflight.com	-	-
2024-058	2460396.45	2024 Mar 26 2251	Chang Zheng 6A	-	Y3	1.500	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-063	2460403.46	2024 Apr 2 2256	Chang Zheng 2D	-	Y102	1.500	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2024-072	2460415.67	2024 Apr 15 0412	Chang Zheng 2D	-	Y97	0.600	SAST	OS	-	G/C	Sat SSO D	nasaspaceflight.com	-	-
2024-075	2460421.49	2024 Apr 20 2345	Chang Zheng 2D	-	Y103	1.500	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2024-078	2460426.04	2024 Apr 25 1259:00	Chang Zheng 2F	G	Y18	9.945	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-
2024-085	2460437.64	2024 May 7 0321	Chang Zheng 6C	-	Y1	0.150	SAST	OS	-	G/C	Sat LEO L	xinhuanet.com	-	-
2024-087	2460439.57	2024 May 9 0143	Chang Zheng 3B	G2	Y96?	4.000	CALT	OS	-	G	Sat MEO O	nasaspaceflight.com	xinhuanet.com	-
2024-089	2460442.49	2024 May 11 2343	Chang Zheng 4C	-	Y50	1.000	CALT	OS	-	G	Sat SSO L	nasaspaceflight.com	xinhuanet.com	-
2024-094	2460450.63	2024 May 20 0306	Chang Zheng 2D	-	Y98	1.000	SAST	OS	-	G/C	Sat LEO O	nasaspaceflight.com	xinhuanet.com	-
2024-104	2460461.01	2024 May 30 1212	Chang Zheng 3B	G2	Y98	5.400	CALT	OS	-	G/OG	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-116	2460483.79	2024 Jun 22 0700	Chang Zheng 2C	-	Y50	0.940	CALT	OS	-	G	Sat LEO L	nasaspaceflight.com	xinhuanet.com	-
2024-122	2460491.00	2024 Jun 29 1157	Chang Zheng 7A	-	Y8	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2024-126	2460496.45	2024 Jul 4 2249	Chang Zheng 6A	-	Y7	1.500	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2024-130	2460510.63	2024 Jul 19 0303	Chang Zheng 4B	-	Y58	3.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2024-135	2460524.05	2024 Aug 1 1314	Chang Zheng 3B	G2	Y97	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-140	2460528.78	2024 Aug 6 0642	Chang Zheng 6A	-	Y21	5.400	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-148	2460538.82	2024 Aug 16 0735	Chang Zheng 4B	-	Y72	2.000	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2024-151	2460545.02	2024 Aug 22 1225	Chang Zheng 7A	-	Y9	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2024-156	2460556.56	2024 Sep 3 0122	Chang Zheng 4B	-	Y73	2.000	SAST	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2024-159	2460559.27	2024 Sep 5 1830	Chang Zheng 6	-	Y11	1.300	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-168	2460572.55	2024 Sep 19 0114	Chang Zheng 3B/YZ-1	G3Z	-	2.028	CALT	OS	-	G	Sat MEO OO	nasaspaceflight.com	xinhuanet.com	-
2024-169	2460573.67	2024 Sep 20 0411	Chang Zheng 2D	-	-	1.400	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2024-177	2460580.94	2024 Sep 27 1030	Chang Zheng 2D	-	Y44	1.500	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2024-181	2460594.08	2024 Oct 10 1350	Chang Zheng 3B	-	-	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	xinhuanet.com	-
2024-185	2460598.96	2024 Oct 15 1106	Chang Zheng 6A	-	Y20	5.400	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-186	2460599.49	2024 Oct 15 2345	Chang Zheng 4C	-	Y59	3.000	SAST	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2024-189	2460605.51	2024 Oct 22 0010	Chang Zheng 6	-	Y13	1.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2024-190	2460606.55	2024 Oct 23 0109	Chang Zheng 2C	-	Y82	2.000	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2024-194	2460613.35	2024 Oct 29 2027:34	Chang Zheng 2F	G	Y19	9.945	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-
2024-203	2460623.65	2024 Nov 9 0339	Chang Zheng 2C	-	-	1.130	CALT	OS	-	G/C	Sat SSO O	nasaspaceflight.com	xinhuanet.com	-
2024-208	2460628.45	2024 Nov 13 2242	Chang Zheng 4B	-	Y53	1.000	SAST	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2024-211	2460630.13	2024 Nov 15 1513:18	Chang Zheng 7	-	Y9	18.860	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	xinhuanet.com	-
2024-218	2460639.49	2024 Nov 24 2339	Chang Zheng 2C	-	Y83	1.000	CALT	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-227	2460647.75	2024 Dec 3 0556	Chang Zheng 3B	-	Y103	4.000	CALT	OS	-	G	Sat MOL O	nasaspaceflight.com	-	-
2024-232	2460649.70	2024 Dec 5 0441	Chang Zheng 6A	-	Y22	5.400	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2024-238	2460656.80	2024 Dec 12 0717	Chang Zheng 2D/YZ-3	-	Y60/Y5	0.750	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2024-241	2460661.28	2024 Dec 16 1850	Chang Zheng 2D	-	Y99	0.750	SAST	OS	-	G/C	Sat SSO O	nasaspaceflight.com	-	-
2024-246	2460665.13	2024 Dec 20 1512	Chang Zheng 3B	G2	Y99?	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-002	2460682.33	2025 Jan 6 2000	Chang Zheng 3B	G2	Y104	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-012	2460692.67	2025 Jan 17 0407	Chang Zheng 2D	-	Y101	1.000	SAST	OS	-	G/OG	Sat SSO O	nasaspaceflight.com	-	-
2025-016	2460698.72	2025 Jan 23 0515	Chang Zheng 6A	-	Y6	5.400	SAST	OS	-	G/C	Sat SSO L	nasaspaceflight.com	-	-
2025-017	2460699.15	2025 Jan 23 1532	Chang Zheng 3B	G2	-	4.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-030	2460717.90	2025 Feb 11 0930	Chang Zheng 8A	-	Y1	6.000	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2025-036	2460729.01	2025 Feb 22 1211	Chang Zheng 3B	G2?	Y101	5.300	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-040	2460733.80	2025 Feb 27 0708	Chang Zheng 2C	-	Y81?	5.300	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2025-045	2460744.22	2025 Mar 9 1717	Chang Zheng 3B	G2	-	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-046	2460746.19	2025 Mar 11 1638	Chang Zheng 8	-	Y6	5.400	SAST	OS	-	G/C	Sat LEO L	nasaspaceflight.com	-	-
2025-051	2460749.67	2025 Mar 15 0411	Chang Zheng 2D	-	Y100	1.000	CALT	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2025-062	2460761.16	2025 Mar 26 1555	Chang Zheng 3B	G3	-	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-064	2460764.17	2025 Mar 29 1605	Chang Zheng 7A	-	Y11	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-067	2460766.67	2025 Apr 1 0400	Chang Zheng 2D	-	Y78	1.000	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2025-068	2460768.59	2025 Apr 3 0212	Chang Zheng 6	-	Y14	1.000	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2025-073	2460776.20	2025 Apr 10 1647	Chang Zheng 3B	-	-	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-078	2460784.45	2025 Apr 18 2251	Chang Zheng 6A	-	Y11	1.800	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2025-082	2460789.89	2025 Apr 24 0917:31	Chang Zheng 2F	G	Y20	9.945	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-
2025-084	2460793.16	2025 Apr 27 1554	Chang Zheng 3B	G3	-	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-096	2460807.06	2025 May 11 1327	Chang Zheng 6A	-	Y9	2.000	SAST	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2025-097	2460808.26	2025 May 12 1809	Chang Zheng 3C	G2?	Y19?	3.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-100	2460809.67	2025 May 14 0412	Chang Zheng 2D	-	Y107	0.700	ZHSH/SAST	OS	-	CG/C	Sat SSO O	nasaspaceflight.com	-	-
2025-106	2460815.99	2025 May 20 1150	Chang Zheng 7A	-	Y15	5.000	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-114	2460824.23	2025 May 28 1731	Chang Zheng 3B	G2	Y110	2.000	CALT	DS	-	G	Sat EEO E	nasaspaceflight.com	-	-
2025-115	2460824.67	2025 May 29 0412	Chang Zheng 4B	-	Y62	1.500	SAST	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-121	2460832.36	2025 Jun 5 2045	Chang Zheng 6A	-	Y8	4.000	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2025-128	2460840.83	2025 Jun 14 0756	Chang Zheng 2D	-	Y42	0.800	SAST	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2025-132	2460847.03	2025 Jun 20 1237	Chang Zheng 3B	-	-	5.500	CALT	OS	-	G	Sat GTO O	nasaspaceflight.com	-	-
2025-145	2460859.90	2025 Jul 3 0935	Chang Zheng 4C	-	Y63	5.500	CALT	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2025-149	2460871.40	2025 Jul 14 2134:23	Chang Zheng 7	-	Y10	19.000	CALT	OS	-	G	Sat LSS O	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-M154	2439824.50	1967 Dec	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELPA	-	-	-	70?	-	-
1967-M155	2439824.50	1967 Dec	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELPA	-	-	-	70?	-	-
1967-M156	2439824.50	1967 Dec	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELPA	-	-	-	70?	-	-
1968-M60	2440160.50	1968 Nov	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1968-M61	2440160.50	1968 Nov	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1968-M62	2440160.50	1968 Nov	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1969-M89	2440280.50	1969 Mar	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1969-M90	2440280.50	1969 Mar	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1969-M91	2440280.50	1969 Mar	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1974-M41	2442198.50	1974 Jun	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-
1974-M42	2442198.50	1974 Jun	DIM	-	-	Dardo de Invest. Met.	-	-	-	CELAT	-	-	-	70?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-M154	2439824.50	1967 Dec	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1967-M155	2439824.50	1967 Dec	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1967-M156	2439824.50	1967 Dec	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1968-M60	2440160.50	1968 Nov	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1968-M61	2440160.50	1968 Nov	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1968-M62	2440160.50	1968 Nov	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1969-M89	2440280.50	1969 Mar	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1969-M90	2440280.50	1969 Mar	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1969-M91	2440280.50	1969 Mar	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1974-M41	2442198.50	1974 Jun	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-
1974-M42	2442198.50	1974 Jun	DIM	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	DeLeon	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S07	2436596.21	1959 Jan 27 1700	Daniel	-	01	-	-	-	-	CERES	-	-	-	127	-	-
1961-S321	2437577.50	1961 Oct 5	Daniel	-	03	-	-	-	-	CERES	-	-	-	130	-	-
1961-S326	2437581.50	1961 Oct 9	Daniel	-	02	-	-	-	-	CERES	-	-	-	130?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S07	2436596.21	1959 Jan 27 1700	Daniel	-	01	0.000	ONERA	SS	-	ONERA/	Test/Aeron	SR1,215	SR1,215	-
1961-S321	2437577.50	1961 Oct 5	Daniel	-	03	0.000	ONERA	SS	-	ONERA/	Test/Aeron	IAA-00-IAA.2.03	Serra	-
1961-S326	2437581.50	1961 Oct 9	Daniel	-	02	0.000	ONERA	SS	-	ONERA/	Test/Aeron	Serra	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1947-A07	2432275.50	1947 Apr	Deacon	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1947-A15	2432397.50	1947 Aug	Deacon	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1948-A01	2432550.50	1948	Deacon	-	-	E15 Model Test	-	-	-	WI	-	-	-	10?	-	-
1948-A21	2432782.50	1948 Aug 19	Deacon	-	-	Sparrow Model	-	-	-	WI	-	-	-	10?	-	-
1948-A32	2432818.50	1948 Sep 24	Deacon	-	-	Convair XF-92 Model	-	-	-	WI	-	-	-	10?	-	-
1948-A45	2432908.50	1948 Dec 23	Deacon	-	-	D3 Model	-	-	-	WI	-	-	-	0?	-	-
1949-A05	2432949.50	1949 Feb 2	Deacon	-	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A08	2433003.50	1949 Mar 28	Deacon	-	-	XF-91 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A09	2433004.50	1949 Mar 29	Deacon	-	-	D3 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A10	2433005.50	1949 Mar 30	Deacon	-	-	D8 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A11	2433006.50	1949 Apr	Deacon	-	-	D4	-	-	-	WI	-	-	-	10?	-	-
1949-A12	2433006.50	1949 Apr	Deacon	-	-	D4	-	-	-	WI	-	-	-	10?	-	-
1949-A13	2433027.50	1949 Apr 21	Deacon	-	-	E17 Drag Model	-	-	-	WI	-	-	-	10?	-	-
1949-A20	2433060.50	1949 May 24	Deacon	-	-	D4	-	-	-	WI	-	-	-	10?	-	-
1949-A23	2433151.50	1949 Aug 23	Deacon	-	-	D3 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A25	2433180.50	1949 Sep 21	Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1949-A27	2433236.50	1949 Nov 16	Double Deacon	-	-	F23 Ramjet	-	-	-	WI	-	-	-	0?	-	-
1949-A29	2433273.50	1949 Dec 23	Double Deacon	-	-	D4 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A01	2433292.50	1950 Jan 11	Deacon	-	-	F26 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A02	2433306.50	1950 Jan 25	Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A14	2433364.50	1950 Mar 24	Double Deacon	-	-	F23 Ramjet	-	-	-	WI	-	-	-	17	-	-
1950-A21	2433413.50	1950 May 12	Deacon	-	-	X-2 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A24	2433424.50	1950 May 23	Deacon	-	-	F26 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A26	2433438.50	1950 Jun 6	Double Deacon	-	-	F23 Ramjet	-	-	-	WI	-	-	-	48	-	-
1950-A28	2433493.50	1950 Aug	Deacon Deacon	-	-	Hermes Ramjet Model	-	-	-	WI	-	-	-	10?	-	-
1950-A29	2433493.50	1950 Aug	Deacon Deacon	-	-	Hermes Ramjet Model	-	-	-	WI	-	-	-	10?	-	-
1950-A33	2433511.50	1950 Aug 18	Deacon Deacon	-	-	D4	-	-	-	WI	-	-	-	10?	-	-
1950-A35	2433524.50	1950 Aug 31	Double Deacon	-	-	XF-92 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A36	2433532.50	1950 Sep 8	Deacon	-	-	E17 Drag Model	-	-	-	WI	-	-	-	10?	-	-
1950-A39	2433556.50	1950 Oct 2	Deacon	-	-	D8 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A48	2433587.50	1950 Nov 2	Deacon HVAR	-	-	Sparrow Model	-	-	-	WI	-	-	-	10?	-	-
1950-A52	2433600.50	1950 Nov 15	Deacon	-	-	Snark Model	-	-	-	WI	-	-	-	10?	-	-
1950-A53	2433601.50	1950 Nov 16	Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1950-A59	2433622.50	1950 Dec 7	Double Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A03	2433683.50	1951 Feb 6	Double Deacon	-	-	RM-10 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A08	2433728.50	1951 Mar 23	Deacon	-	-	XF4D-1 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A17	2433773.50	1951 May 7	Deacon	-	-	E2 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A21	2433783.50	1951 May 17	Deacon	?	-	X-5 E17 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A32	2433822.50	1951 Jun 25	Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A34	2433824.50	1951 Jun 27	Deacon	-	-	XF4D-1 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A43	2433845.50	1951 Jul 18	Double Deacon	-	Double Deacon	X-2 Model	-	-	-	WI	-	-	-	0?	-	-
1951-A50	2433860.50	1951 Aug 2	Deacon	-	-	Boojum Model	-	-	-	WI	-	-	-	10?	-	-
1951-A54	2433875.50	1951 Aug 17	Deacon	-	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A59	2433894.50	1951 Sep 5	Deacon	-	-	E7 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A87	2433979.50	1951 Nov 29	Double Deacon	-	-	D3 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A100	2433999.50	1951 Dec 19	Deacon	-	-	XF10F-1 Model	-	-	-	WI	-	-	-	10?	-	-
1951-A101	2433999.50	1951 Dec 19	Double Deacon	-	-	Falcon Missile	-	-	-	WI	-	-	-	10?	-	-
1952-A01	2434011.50	1952 Jan	Double Deacon	-	Double Deacon	X-2 Model	-	-	-	WI	-	-	-	0?	-	-
1952-A08	2434034.50	1952 Jan 23	Double Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A40	2434076.50	1952 Mar 5	Deacon	-	-	XF3H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A44	2434084.50	1952 Mar 13	Deacon	-	-	XF4D-1 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A47	2434089.50	1952 Mar 18	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1952-A48	2434090.50	1952 Mar 19	Double Deacon	-	-	Navaho Model	-	-	-	WI	-	-	-	10?	-	-
1952-A55	2434102.50	1952 Apr	Deacon	-	-	Rigel Model	-	-	-	WI	-	-	-	10?	-	-
1952-A67	2434125.50	1952 Apr 23	Deacon	-	-	D109/FFAR seeker	-	-	-	WI	-	-	-	1?	-	-
1952-A77	2434148.50	1952 May 16	Deacon	?	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A83	2434154.50	1952 May 22	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1952-A84	2434154.50	1952 May 22	Double Deacon	-	-	Navaho Model	-	-	-	WI	-	-	-	10?	-	-
1952-A95	2434176.50	1952 Jun 13	Double Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A283	2434190.07	1952 Jun 26 1345	Deacon	-	-	SUI 0 payload test	-	-	-	WS	-	-	-	14	-	-
1952-A288	2434193.50	1952 Jul?	Deacon	-	-	SUI 0 rocket test	-	-	-	WS	-	-	-	10?	-	-
1952-A289	2434193.50	1952 Jul	Deacon	-	-	SUI 0 rocket test	-	-	-	WS	-	-	-	10?	-	-
1952-A109	2434201.50	1952 Jul 8	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	0	-	-
1952-A126	2434229.50	1952 Aug 5	Deacon Deacon	-	-	Hermes Ramjet Model	-	-	-	WI	-	-	-	10?	-	-
1952-A127	2434230.50	1952 Aug 6	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A128	2434230.50	1952 Aug 6	Deacon	?	-	D-558-II Model	-	-	-	WI	-	-	-	10?	-	-
1952-A141	2434245.77	1952 Aug 21 0625	Deacon Rockoon	-	-	SUI 1	-	-	WYG-279	USN52A	LP1	-	-	11	-	-
1952-A142	2434248.65	1952 Aug 24 0334	Deacon Rockoon	-	-	SUI 2	-	-	WYG-279	USN52A	LP2	-	-	11	-	-
1952-M05	2434253.52	1952 Aug 29 0026	Deacon Rockoon	-	-	SUI 3	-	-	WYG-279	USN52A	LP3	-	-	61	-	-
1952-M06	2434253.82	1952 Aug 29 0736	Deacon Rockoon	-	-	SUI 4	-	-	WYG-279	USN52A	LP4	-	-	60	-	-
1952-S23	2434254.26	1952 Aug 29 1815	Deacon Rockoon	-	-	SUI 5	-	-	WYG-279	USN52A	LP5	-	-	90	-	-
1952-M07	2434256.38	1952 Aug 31 2110	Deacon Rockoon	-	-	SUI 6	-	-	WYG-279	USN52A	LP6	-	-	60	-	-
1952-A146	2434255.50	1952 Sep	Deacon Deacon	-	-	Hermes Ramjet Model	-	-	-	WI	-	-	-	10?	-	-
1952-M08	2434259.89	1952 Sep 4 0917	Deacon Rockoon	-	-	SUI 7	-	-	WYG-279	USN52A	LP7	-	-	60	-	-
1952-A147	2434260.50	1952 Sep 5	Deacon	-	-	Rigel Model	-	-	-	WI	-	-	-	10?	-	-
1952-A153	2434266.50	1952 Sep 11	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A160	2434274.50	1952 Sep 19	Deacon	-	-	D109/HPAG seeker	-	-	-	WI	-	-	-	10?	-	-
1952-A162	2434279.50	1952 Sep 24	Deacon	-	-	D35 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A165	2434280.50	1952 Sep 25	Deacon	-	-	F-100 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A198	2434315.50	1952 Oct 30	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A202	2434316.50	1952 Oct 31	Double Deacon	-	-	Navaho Model	-	-	-	WI	-	-	-	10?	-	-
1952-A203	2434316.50	1952 Nov	Deacon	-	-	Rigel Model	-	-	-	WI	-	-	-	10?	-	-
1952-A209	2434323.50	1952 Nov 7	Deacon	-	-	F-100 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A217	2434328.50	1952 Nov 12	Deacon	-	-	XF2Y-1 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A231	2434335.50	1952 Nov 19	Deacon	-	-	XF10F-1 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A266	2434358.50	1952 Dec 12	Deacon	-	-	D109/HPAG seeker	-	-	-	WI	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A275	2434364.50	1952 Dec 18	Deacon	-	-	D28 Model	-	-	-	WI	-	-	-	10?	-	-
1952-A276	2434364.50	1952 Dec 18	Deacon	-	-	D18 F100 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A01	2434377.50	1953	Deacon	-	-	F-100 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A02	2434377.50	1953 Jan	Deacon	-	-	D35 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A16	2434391.50	1953 Jan 14	Quad Deacon	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1953-A24	2434399.50	1953 Jan 22	Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A94	2434441.50	1953 Mar 5	Double Deacon	-	-	Falcon Missile	-	-	-	WI	-	-	-	10?	-	-
1953-A134	2434456.50	1953 Mar 20	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	0?	-	-
1953-A165	2434477.50	1953 Apr 10	Double Deacon	-	-	F36 Ramjet Model	-	-	-	WI	-	-	-	10?	-	-
1953-A210	2434505.50	1953 May 8	Triple Deacon	-	-	-	-	-	-	WI	-	-	-	10?	-	-
1953-A239	2434538.50	1953 Jun 10	Deacon	-	-	XF3H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A247	2434546.50	1953 Jun 18	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	8	-	-
1953-A259	2434553.50	1953 Jun 25	Triple Deacon	-	-	F23 Ramjet	-	-	-	WI	-	-	-	41	-	-
1953-A293	2434573.50	1953 Jul 15	Deacon	-	-	E25 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A297	2434577.44	1953 Jul 18 2227	Deacon Rockoon	-	MUSHRAT 1	SUI 8	-	-	AGB-5	USN53A	LP1	-	-	11	-	-
1953-A298	2434577.94	1953 Jul 19 1030	Deacon Rockoon	-	MUSHRAT 2	SUI 9	-	-	AGB-5	USN53A	LP2	-	-	11	-	-
1953-A299	2434578.16	1953 Jul 19 1553	Deacon Rockoon	-	MUSHRAT 3	SUI 10	-	-	AGB-5	USN53A	LP3	-	-	11	-	-
1953-A300	2434578.41	1953 Jul 19 2157	Deacon Rockoon	-	MUSHRAT 4	SUI 11	-	-	AGB-5	USN53A	LP4	-	-	11	-	-
1953-A306	2434583.19	1953 Jul 24 1640	Deacon Rockoon	-	MUSHRAT 5	SUI 12	-	-	AGB-5	USN53A	LP5	-	-	11	-	-
1953-S27	2434586.90	1953 Jul 28 0941	Deacon Rockoon	-	MUSHRAT 6	SUI 13	-	-	AGB-5	USN53A	LP6	-	-	90	-	-
1953-A309	2434593.27	1953 Aug 3 1828	Deacon Rockoon	-	MUSHRAT 7	SUI 14	-	-	AGB-5	USN53A	LP7	-	-	11?	-	-
1953-A311	2434593.50	1953 Aug 4	Deacon	-	-	Rascal Model	-	-	-	WI	-	-	-	10?	-	-
1953-M05	2434595.41	1953 Aug 5 2154	Deacon Rockoon	-	MUSHRAT 9	NRL Rockoon 1	-	-	AGB-5	USN53A	LP21	-	-	80	-	-
1953-A317	2434596.13	1953 Aug 6 1507	Deacon Rockoon	-	MUSHRAT 10	SUI 15	-	-	AGB-5	USN53A	LP8	-	-	68	-	-
1953-S28	2434596.28	1953 Aug 6 1840	Deacon Rockoon	-	MUSHRAT 11	SUI 16	-	-	AGB-5	USN53A	LP9	-	-	96	-	-
1953-M06	2434598.13	1953 Aug 8 1509	Deacon Rockoon	-	MUSHRAT 12	NRL Rockoon 2	-	-	AGB-5	USN53A	LP22	-	-	80	-	-
1953-S29	2434598.75	1953 Aug 9 0554	Deacon Rockoon	-	MUSHRAT 13	SUI 17	-	-	AGB-5	USN53A	LP10	-	-	100	-	-
1953-A318	2434599.30	1953 Aug 9 1915	Deacon Rockoon	-	MUSHRAT 14	NRL Rockoon 3	-	-	AGB-5	USN53A	LP23	-	-	38	-	-
1953-M07	2434601.21	1953 Aug 11 1709	Deacon Rockoon	-	MUSHRAT 15	NRL Rockoon 4	-	-	AGB-5	USN53A	LP24	-	-	80	-	-
1953-A330	2434608.50	1953 Aug 19	Deacon	-	-	D18 F100 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A331	2434608.50	1953 Aug 19	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1953-A332	2434609.50	1953 Aug 20	Triple Deacon HPAG	-	-	E10 Hypersonic Test	-	-	-	WI	-	-	-	20?	-	-
1953-A338	2434620.08	1953 Aug 30 1400	Deacon Rockoon	-	Eastwind 54-1	SUI 18	-	-	WYG-279	USN53B	LP11	-	-	11	-	-
1953-A339	2434620.18	1953 Aug 30 1620	Deacon Rockoon	-	Eastwind 54-2	SUI 19	-	-	WYG-279	USN53B	LP12	-	-	11	-	-
1953-S30	2434620.37	1953 Aug 30 2046	Deacon Rockoon	-	Eastwind 54-3	SUI 20	-	-	WYG-279	USN53B	LP13	-	-	100	-	-
1953-S32	2434623.91	1953 Sep 3 0950	Deacon Rockoon	-	Eastwind 54-4	SUI 21	-	-	WYG-279	USN53B	LP14	-	-	90	-	-
1953-S33	2434623.99	1953 Sep 3 1151	Deacon Rockoon	-	Eastwind 54-5	SUI 22	-	-	WYG-279	USN53B	LP15	-	-	100	-	-
1953-S34	2434624.09	1953 Sep 3 1405	Deacon Rockoon	-	Eastwind 54-6	SUI 23	-	-	WYG-279	USN53B	LP16	-	-	100	-	-
1953-M08	2434624.67	1953 Sep 4 0359	Deacon Rockoon	-	Eastwind 54-7	NRL Rockoon 5	-	-	WYG-279	USN53B	LP25	-	-	70	-	-
1953-M09	2434625.16	1953 Sep 4 1551	Deacon Rockoon	-	Eastwind 54-8	NRL Rockoon 6	-	-	WYG-279	USN53B	LP26	-	-	70	-	-
1953-A390	2434657.50	1953 Oct 7	Deacon	-	-	F8U-1 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A401	2434665.50	1953 Oct 15	Deacon Sidewinder	-	-	Sidewinder Test	-	-	-	WI	-	-	-	10?	-	-
1953-A418	2434676.50	1953 Oct 26	Deacon	-	-	Pogo Model	-	-	-	WI	-	-	-	10?	-	-
1953-A422	2434681.50	1953 Nov	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A455	2434701.50	1953 Nov 20	Triple Deacon HPAG	-	-	E10 Hypersonic Test	-	-	-	WI	-	-	-	20?	-	-
1953-A466	2434713.50	1953 Dec 2	Deacon	-	-	X-2 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A469	2434718.50	1953 Dec 7	Double Deacon	-	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A483	2434727.50	1953 Dec 16	Deacon	-	-	X-3 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A488	2434728.50	1953 Dec 17	Deacon	-	-	F11F-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A03	2434746.50	1954 Jan 4	Deacon	-	-	F-104 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A05	2434749.50	1954 Jan 7	Deacon	-	-	F8U-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A33	2434769.50	1954 Jan 27	Double Deacon	-	-	MX-1712 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A46	2434782.50	1954 Feb 9	Deacon	-	-	F11F-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A73	2434797.50	1954 Feb 24	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1954-A85	2434801.50	1954 Mar	Deacon	-	-	E17 Drag Model	-	-	-	WI	-	-	-	10?	-	-
1954-A116	2434820.50	1954 Mar 19	Deacon	-	-	XF2Y-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A124	2434825.50	1954 Mar 24	Double Deacon	-	-	Regulus II Model	-	-	-	WI	-	-	-	10?	-	-
1954-A126	2434827.50	1954 Mar 26	Quad Deacon	-	-	Drag Model	-	-	-	WI	-	-	-	10?	-	-
1954-A711	2434852.50	1954 Apr 20	Pogo Hi	-	-	POGO 1	-	-	-	WS	-	-	-	30?	-	-
1954-A183	2434853.50	1954 Apr 21	Double Deacon	-	-	D35 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A186	2434854.50	1954 Apr 22	Double Deacon	-	-	Regulus II Model	-	-	-	WI	-	-	-	10?	-	-
1954-A719	2434859.50	1954 Apr 27	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A214	2434861.50	1954 Apr 29	Tri-Deacon Deacon HPAG	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1954-A720	2434890.50	1954 May 28	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A315	2434896.50	1954 Jun 3	Deacon	-	-	Inlet model	-	-	-	WI	-	-	-	10?	-	-
1954-A318	2434897.50	1954 Jun 4	Deacon	-	-	Snark Model	-	-	-	WI	-	-	-	10?	-	-
1954-A379	2434921.50	1954 Jun 28	Double Deacon	-	-	MX-1712 Model	-	-	-	WI	-	-	-	10?	-	-
1954-S44	2434940.01	1954 Jul 16 1213	Deacon Rockoon	-	-	SUI 24	-	-	AGB-3	USN54A	LP1	-	-	90	-	-
1954-A414	2434940.42	1954 Jul 16 2158	Deacon Rockoon	-	-	SUI 25	-	-	AGB-3	USN54A	LP1	-	-	11	-	-
1954-A417	2434943.17	1954 Jul 19 1600	Deacon Rockoon	-	-	NRL Rockoon 7	-	-	AGB-3	USN54A	LP14	-	-	88	-	-
1954-A418	2434943.35	1954 Jul 19 2030	Deacon Rockoon	-	-	SUI 26	-	-	AGB-3	USN54A	LP2	-	-	43	-	-
1954-S45	2434943.62	1954 Jul 20 0255	Deacon Rockoon	-	-	NRL Rockoon 8	-	-	AGB-3	USN54A	LP15	-	-	90	-	-
1954-M01	2434944.88	1954 Jul 21 0903	Deacon Rockoon	-	-	SUI 27	-	-	AGB-3	USN54A	LP3	-	-	60	-	-
1954-S46	2434945.03	1954 Jul 21 1245	Deacon Rockoon	-	-	SUI 28	-	-	AGB-3	USN54A	LP4	-	-	90	-	-
1954-A428	2434945.37	1954 Jul 21 2049	Deacon Rockoon	-	-	SUI 29	-	-	AGB-3	USN54A	LP5	-	-	40	-	-
1954-S47	2434946.30	1954 Jul 22 1915:00	Deacon	-	-	-	-	-	-	FWAK	-	-	-	86	-	-
1954-S48	2434947.12	1954 Jul 23 1446	Deacon Rockoon	-	-	SUI 30	-	-	AGB-3	USN54A	LP6	-	-	90	-	-
1954-S49	2434947.21	1954 Jul 23 1709	Deacon Rockoon	-	-	NRL Rockoon 9	-	-	AGB-3	USN54A	LP16	-	-	90	-	-
1954-S50	2434947.25	1954 Jul 23 1754	Deacon Rockoon	-	-	SUI 31	-	-	AGB-3	USN54A	LP8	-	-	90	-	-
1954-A435	2434947.32	1954 Jul 23 1937	Deacon Rockoon	-	-	SUI 32	-	-	AGB-3	USN54A	LP7	-	-	23	-	-
1954-S51	2434947.87	1954 Jul 24 0857	Deacon Rockoon	-	-	SUI 33	-	-	AGB-3	USN54A	LP9	-	-	90	-	-
1954-S52	2434948.05	1954 Jul 24 1316	Deacon Rockoon	-	-	SUI 34	-	-	AGB-3	USN54A	LP10	-	-	90	-	-
1954-S53	2434948.79	1954 Jul 25 0651	Deacon Rockoon	-	-	SUI 35	-	-	AGB-3	USN54A	LP11	-	-	90	-	-
1954-S54	2434949.02	1954 Jul 25 1236	Deacon Rockoon	-	-	SUI 36	-	-	AGB-3	USN54A	LP12	-	-	90	-	-
1954-S55	2434949.15	1954 Jul 25 1530	Deacon Rockoon	-	-	SUI 37	-	-	AGB-3	USN54A	LP13	-	-	90	-	-
1954-S56	2434949.28	1954 Jul 25 1845	Deacon Rockoon	-	-	NRL Rockoon 10	-	-	AGB-3	USN54A	LP17	-	-	85	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A442	2434949.52	1954 Jul 26 0029	Deacon Rockoon	-	-	NRL Rockoon 11	-	-	AGB-3	USN54A	LP18	-	-	10	-	-
1954-S58	2434949.96	1954 Jul 26 1102	Deacon Rockoon	-	-	NRL Rockoon 12	-	-	AGB-3	USN54A	LP19	-	-	90	-	-
1954-A444	2434950.50	1954 Jul 27	Deacon	-	-	AGARD Model 2	-	-	-	WI	-	-	-	10?	-	-
1954-A721	2434950.50	1954 Jul 27	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A469	2434965.50	1954 Aug 11	Deacon	-	-	F11F-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A722	2434967.50	1954 Aug 13	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A499	2434987.50	1954 Sep 2	Double Deacon	-	-	D4 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A723	2434992.50	1954 Sep 7	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A724	2435007.50	1954 Sep 22	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	30?	-	-
1954-A589	2435037.50	1954 Oct 22	Double Deacon	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A707	2435092.50	1954 Dec 16	Double Deacon	-	-	Sidewinder	-	-	-	WI	-	-	-	10?	-	-
1955-A01	2435107.50	1955	Deacon	-	-	XF3H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A02	2435107.50	1955	Deacon	-	-	XF3H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A12	2435118.50	1955 Jan 11	Double Deacon	-	-	Falcon Missile	-	-	-	WI	-	-	-	10?	-	-
1955-A55	2435135.50	1955 Jan 28	Double Deacon	-	-	Delta-wing model	-	-	-	WI	-	-	-	10?	-	-
1955-A207	2435189.50	1955 Mar 23	Deacon	-	-	F29 Ramjet	-	-	-	WI	-	-	-	6	-	-
1955-A228	2435194.50	1955 Mar 28	Deacon	-	-	E39 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A304	2435218.50	1955 Apr 21	Deacon	-	-	Turbojet study	-	-	-	WI	-	-	-	10?	-	-
1955-A449	2435278.50	1955 Jun 20	Deacon	?	-	E5 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A452	2435286.50	1955 Jun 28	Double Deacon	-	-	D35 Model	-	-	-	WI	-	-	-	10?	-	-
1955-S74	2435375.19	1955 Sep 24 1635	Deacon Rockoon	-	-	SUI 39	-	-	LSD-1	USN55A	LP2	-	-	100	-	-
1955-A476	2435378.30	1955 Sep 27 1912	Deacon Rockoon	-	-	NRL Rockoon 14	-	-	LSD-1	USN55A	LP20	-	-	11	-	-
1955-S76	2435378.32	1955 Sep 27 1943	Deacon Rockoon	-	-	NRL Rockoon 13	-	-	LSD-1	USN55A	LP19	-	-	90	-	-
1955-S77	2435378.37	1955 Sep 27 2054	Deacon Rockoon	-	-	SUI 42	-	-	LSD-1	USN55A	LP5	-	-	100	-	-
1955-S79	2435379.03	1955 Sep 28 1245	Deacon Rockoon	-	-	NRL Rockoon 15	-	-	LSD-1	USN55A	LP21	-	-	90	-	-
1955-S80	2435379.12	1955 Sep 28 1454	Deacon Rockoon	-	-	SUI 44	-	-	LSD-1	USN55A	LP7	-	-	100	-	-
1955-A477	2435379.24	1955 Sep 28 1740	Deacon Rockoon	-	-	NRL Rockoon 16	-	-	LSD-1	USN55A	LP22	-	-	11	-	-
1955-S81	2435379.31	1955 Sep 28 1922	Deacon-Loki Rockoon	-	-	SUI 45	-	-	LSD-1	USN55A	LP8	-	-	102	-	-
1955-S82	2435380.07	1955 Sep 29 1342	Deacon Rockoon	-	-	SUI 46	-	-	LSD-1	USN55A	LP9	-	-	100	-	-
1955-S83	2435380.30	1955 Sep 29 1913	Deacon Rockoon	-	-	SUI 47	-	-	LSD-1	USN55A	LP10	-	-	100	-	-
1955-S84	2435380.41	1955 Sep 29 2152	Deacon-Loki Rockoon	-	-	SUI 48	-	-	LSD-1	USN55A	LP11	-	-	100	-	-
1955-A479	2435380.50	1955 Oct	Deacon	-	-	D35 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A480	2435386.95	1955 Oct 6 1054	Deacon Rockoon	-	-	NRL Rockoon 17	-	-	LSD-1	USN55A	LP23	-	-	11	-	-
1955-S90	2435387.30	1955 Oct 6 1910	Deacon Rockoon	-	-	SUI 51	-	-	LSD-1	USN55A	LP14	-	-	100	-	-
1955-A482	2435391.50	1955 Oct 11	Deacon	-	-	Smoke	-	-	-	WI	-	-	-	8	-	-
1955-A483	2435391.50	1955 Oct 11	Deacon	-	-	Smoke	-	-	-	WI	-	-	-	8	-	-
1955-A484	2435392.11	1955 Oct 11 1433	Deacon Rockoon	-	-	SUI 52	-	-	LSD-1	USN55A	LP15	-	-	20	-	-
1955-S92	2435392.11	1955 Oct 11 1437	Deacon Rockoon	-	-	NRL Rockoon 18	-	-	LSD-1	USN55A	LP24	-	-	90	-	-
1955-M07	2435393.78	1955 Oct 13 0637	Deacon Rockoon	-	-	NRL Rockoon 19	-	-	LSD-1	USN55A	LP25	-	-	60	-	-
1955-S94	2435394.03	1955 Oct 13 1244	Deacon Rockoon	-	-	SUI 53	-	-	LSD-1	USN55A	LP16	-	-	100	-	-
1955-M08	2435394.07	1955 Oct 13 1342	Deacon Rockoon	-	-	NRL Rockoon 20	-	-	LSD-1	USN55A	LP26	-	-	50	-	-
1955-A485	2435394.14	1955 Oct 13 1524	Deacon Rockoon	-	-	SUI 54	-	-	LSD-1	USN55A	LP17	-	-	20	-	-
1955-S95	2435394.34	1955 Oct 13 2013	Deacon Rockoon	-	-	SUI 55	-	-	LSD-1	USN55A	LP18	-	-	100	-	-
1955-A489	2435427.50	1955 Nov 16	Double Deacon	-	-	Regulus II Model	-	-	-	WI	-	-	-	10?	-	-
1955-A562	2435446.50	1955 Dec 5	Pogo Hi	-	-	POGO	-	-	-	WS	-	-	-	20?	-	-
1955-A496	2435454.50	1955 Dec 13	Double Deacon	-	-	F5D-1 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A07	2435498.50	1956 Jan 26	Tandem Double Deacon	-	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A10	2435504.50	1956 Feb 1	Deacon	-	-	Delta-wing model	-	-	-	WI	-	-	-	10?	-	-
1956-A209	2435513.50	1956 Feb 10	Pogo Hi	-	-	Talos target	-	-	-	WS	-	-	-	20?	-	-
1956-A210	2435520.50	1956 Feb 17	Pogo Hi	-	-	Talos target	-	-	-	WS	-	-	-	20?	-	-
1956-A22	2435524.50	1956 Feb 21	Deacon	-	-	E42 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A211	2435609.50	1956 May 16	Pogo Hi	-	-	Pogo Hi II	-	-	-	WS	-	-	-	20?	-	-
1956-A212	2435624.50	1956 May 31	Pogo Hi	-	-	Pogo Hi	-	-	-	WS	-	-	-	20?	-	-
1956-A213	2435624.50	1956 May 31	Pogo Hi	-	-	Pogo Hi	-	-	-	WS	-	-	-	20?	-	-
1956-A63	2435646.50	1956 Jun 22	Tandem Double Deacon	?	-	Inlet model	-	-	-	WI	-	-	-	10?	-	-
1956-A65	2435651.50	1956 Jun 27	Double Deacon	-	-	MW-2 Model/T-40	-	-	-	WI	-	-	-	10?	-	-
1956-A214	2435653.50	1956 Jun 29	Pogo Hi	-	1038	Pogo Hi	-	-	-	WS	-	-	-	20?	-	-
1956-A215	2435660.50	1956 Jul 6	Pogo Hi	-	-	Pogo Hi II	-	-	-	WS	-	-	-	20?	-	-
1956-A216	2435660.50	1956 Jul 6	Pogo Hi	-	-	Pogo Hi II	-	-	-	WS	-	-	-	20?	-	-
1956-S53	2435672.32	1956 Jul 17 1940	Deacon Rockoon	-	-	NRL NN5.27	IGY NN5.27	-	LSD-18	USN56A	LP1	-	-	120	-	-
1956-S54	2435673.33	1956 Jul 18 2000	Deacon Rockoon	-	-	NRL NN5.28	IGY NN5.28	-	LSD-18	USN56A	LP2	-	-	120	-	-
1956-S56	2435674.31	1956 Jul 19 1932	Deacon Rockoon	-	-	NRL NN5.29	IGY NN5.29	-	LSD-18	USN56A	LP3	-	-	120	-	-
1956-S59	2435675.30	1956 Jul 20 1915	Deacon Rockoon	-	8	NRL NN5.30	IGY NN5.30	-	LSD-18	USN56A	LP4	-	-	120	-	-
1956-A74	2435676.42	1956 Jul 21 2200	Deacon Rockoon	-	-	NRL NN5.31	IGY NN5.31	-	LSD-18	USN56A	LP5	-	-	11	-	-
1956-S60	2435677.30	1956 Jul 22 1910	Deacon Rockoon	-	-	NRL NN5.32	IGY NN5.32	-	LSD-18	USN56A	LP6	-	-	120	-	-
1956-A75	2435679.30	1956 Jul 24 1910	Deacon Rockoon	-	-	NRL NN5.33	IGY NN5.33	-	LSD-18	USN56A	LP7	-	-	11	-	-
1956-S63	2435680.39	1956 Jul 25 2115	Deacon Rockoon	-	-	NRL NN5.34	IGY NN5.34	-	LSD-18	USN56A	LP8	-	-	120	-	-
1956-S65	2435681.38	1956 Jul 26 2100	Deacon Rockoon	-	NN5.35	NRL NN5.35	IGY NN5.35	-	LSD-18	USN56A	LP9	-	-	120	-	-
1956-S66	2435682.21	1956 Jul 27 1705	Deacon Rockoon	-	NN5.36	NRL NN5.36	IGY NN5.36	-	LSD-18	USN56A	LP10	-	-	5	-	-
1956-A89	2435737.50	1956 Sep 21	Terrapin	-	M1	-	-	-	-	WI	-	-	-	16	-	-
1956-S81	2435737.50	1956 Sep 21	Terrapin	-	M2	-	-	-	-	WI	-	-	-	120	-	-
1956-A217	2435764.50	1956 Oct 18	Pogo Hi	-	-	Pogo Hi Loki Wasp	-	-	-	WS	-	-	-	20?	-	-
1956-A113	2435804.50	1956 Nov 27	Deacon	-	-	AGARD Model 2	-	-	-	WI	-	-	-	10?	-	-
1956-A121	2435820.50	1956 Dec 13	Rockaire	-	RA-1?	Rockair 2710	-	-	F-86D	HADC	RW07/25?	WS	LP1	44	-	-
1956-A123	2435821.50	1956 Dec 14	Rockaire	-	RA-2	-	-	-	F-86D	HADC	RW07/25?	WS	LP1	42	-	-
1956-A124	2435824.50	1956 Dec 17	Rockaire	-	RA-3	-	-	-	F-86D	HADC	RW07/25?	WS	LP1	43	-	-
1956-A125	2435826.50	1956 Dec 19	Rockaire	-	RA-4	-	-	-	F-86D	HADC	RW07/25?	WS	LP1	45	-	-
1956-A218	2435827.50	1956 Dec 20	Pogo Hi	-	-	Pogo Hi II	-	-	-	WS	-	-	-	20?	-	-
1957-S01	2435838.50	1957	Terrapin	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1957-S02	2435838.50	1957	Terrapin	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1957-S03	2435838.50	1957	Terrapin	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1957-S04	2435838.50	1957	Terrapin	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1957-A10	2435882.50	1957 Feb 13	Deacon	-	-	Delta-wing model	-	-	-	WI	-	-	-	10?	-	-
1957-A42	2435981.50	1957 May 23	Double Deacon	-	-	MW-2 Model/T-40	-	-	-	WI	-	-	-	10?	-	-
1957-A131	2436162.50	1957 Nov 20	Double Cajun T40	-	-	MW-2 Model	-	-	-	WI	-	-	-	10?	-	-
1958-A31	2436307.50	1958 Apr 14	Double Deacon	-	-	D3/D18 Model	-	-	-	WI	-	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A206	2436412.50	1958 Jul 28	Cajun	-	-	Sea impact test	-	-	-	WI	-	-	-	10?	-	-
1958-M32	2436416.50	1958 Aug 1	Deacon Arrow II	-	-	Chaff	-	-	-	JI	-	-	-	76?	-	-
1958-M33	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 1	[or Nike Cajun?]	-	-	JI	-	-	-	76?	-	-
1958-M34	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 2	-	-	-	JI	-	-	-	76?	-	-
1958-M35	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 3	-	-	-	JI	-	-	-	76?	-	-
1958-M36	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 4	-	-	-	JI	-	-	-	76?	-	-
1958-M37	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 5	-	-	-	JI	-	-	-	76?	-	-
1958-M38	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 6	-	-	-	JI	-	-	-	76?	-	-
1958-M39	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	RF Attenuation 7	-	-	-	JI	-	-	-	76?	-	-
1958-A100	2436440.50	1958 Aug 25	Deacon	-	-	Pogo Target	-	-	AVM1	USN58B?	-	-	-	30?	-	-
1958-A101	2436440.50	1958 Aug 25	Deacon	-	-	Pogo Target	-	-	AVM1	USN58B?	-	-	-	30?	-	-
1958-A102	2436440.50	1958 Aug 25	Deacon	-	-	Pogo Target	-	-	AVM1	USN58B?	-	-	-	30?	-	-
1958-A104	2436441.50	1958 Aug 26	Deacon	-	-	Pogo Target	-	-	AVM1	USN58B?	-	-	-	30?	-	-
1958-A110	2436454.50	1958 Sep 8	Double Deacon	-	-	E15 Model	-	-	-	WI	-	-	-	10?	-	-
1958-A210	2436203.50	1958?	Pogo Hi	-	-	Pogo Hi Type IC5a	-	-	-	WS	-	-	-	18	-	-
1958-A211	2436203.50	1958?	Pogo Hi	-	-	Pogo Hi Type IC7a	-	-	-	WS	-	-	-	21	-	-
1958-A212	2436203.50	1958?	Pogo Hi	-	-	Pogo Hi Type IC5c	-	-	-	WS	-	-	-	18?	-	-
1958-A213	2436203.50	1958?	Pogo Hi	-	-	Pogo Hi Type IC5c	-	-	-	WS	-	-	-	18?	-	-
1958-A207	2436203.50	1958?	Pogo Hi	-	Terrier Target	POGO	-	-	DD-531	CCOD	-	-	-	10?	-	-
1958-A208	2436203.50	1958?	Pogo Hi	-	Terrier Target	POGO	-	-	DD-531	CCOD	-	-	-	10?	-	-
1958-A209	2436203.50	1958?	Pogo Hi II	-	-	Pogo Hi Type IIC5a	-	-	-	WS	-	-	-	36?	-	-
1958-A214	2436203.50	1958?	Pogo Hi II	-	-	Pogo Hi Type IIC5c	-	-	-	WS	-	-	-	36?	-	-
1958-M21	2436527.36	1958 Nov 19 2032	Deacon Arrow II	-	-	RW-104	-	-	-	TTR	-	-	-	78	-	-
1958-M22	2436527.60	1958 Nov 20 0225	Deacon Arrow II	-	-	RW-105	-	-	-	TTR	-	-	-	76	-	-
1958-S263	2436527.85	1958 Nov 20 0818	Deacon Arrow II	-	-	RW-106	-	-	-	TTR	-	-	-	83	-	-
1958-S264	2436528.09	1958 Nov 20 1410	Deacon Arrow II	-	-	RW-107	-	-	-	TTR	-	-	-	84	-	-
1958-M28	2436553.40	1958 Dec 15 2137	Deacon Arrow II	-	-	RW-108	-	-	-	TTR	-	-	-	80	-	-
1958-S289	2436553.64	1958 Dec 16 0325	Deacon Arrow II	-	-	RW-109	-	-	-	TTR	-	-	-	83	-	-
1958-S290	2436553.87	1958 Dec 16 0849	Deacon Arrow II	-	-	RW-110	-	-	-	TTR	-	-	-	83	-	-
1958-S291	2436554.12	1958 Dec 16 1447	Deacon Arrow II	-	-	RW-111	-	-	-	TTR	-	-	-	84	-	-
1959-A248	2436568.50	1959?	Pogo Hi II	-	-	Pogo Hi Type IID3a	-	-	-	WS	-	-	-	24	-	-
1959-A249	2436568.50	1959?	Pogo Hi II	-	-	Pogo Hi Type IIF3a	-	-	-	WS	-	-	-	24	-	-
1959-A250	2436568.50	1959?	Pogo Hi II	-	-	Pogo Hi Type IIF3c	-	-	-	WS	-	-	-	24	-	-
1959-A251	2436568.50	1959?	Pogo Hi II	-	-	Pogo Hi Type IIE3c	-	-	-	WS	-	-	-	24	-	-
1959-S08	2436596.36	1959 Jan 27 2035	Deacon Arrow II	-	-	RW-112	-	-	-	TTR	-	-	-	83	-	-
1959-S11	2436596.81	1959 Jan 28 0728	Deacon Arrow II	-	-	RW-114	-	-	-	TTR	-	-	-	82	-	-
1959-S27	2436640.28	1959 Mar 12 1845	Deacon Arrow II	-	-	RW-118	-	-	-	TTR	-	-	-	85	-	-
1959-S28	2436640.53	1959 Mar 13 0038	Deacon Arrow II	-	-	RW-119	-	-	-	TTR	-	-	-	84	-	-
1959-M06	2436640.81	1959 Mar 13 0730	Deacon Arrow II	-	-	RW-120	-	-	-	TTR	-	-	-	69	-	-
1959-S29	2436641.02	1959 Mar 13 1230	Deacon Arrow II	-	-	RW-121	-	-	-	TTR	-	-	-	83	-	-
1959-M11	2436674.96	1959 Apr 16 1109	Deacon Arrow II	-	-	RW-122	-	-	-	TTR	-	-	-	66	-	-
1959-M12	2436675.21	1959 Apr 16 1700	Deacon Arrow II	-	-	RW-123	-	-	-	TTR	-	-	-	79	-	-
1959-S50	2436675.47	1959 Apr 16 2310	Deacon Arrow II	-	-	RW-124	-	-	-	TTR	-	-	-	83	-	-
1959-S51	2436675.71	1959 Apr 17 0500	Deacon Arrow II	-	-	RW-125	-	-	-	TTR	-	-	-	82	-	-
1959-S62	2436693.87	1959 May 5 0855	Deacon Arrow II	-	-	RW-126	-	-	-	TTR	-	-	-	81	-	-
1959-S63	2436694.47	1959 May 5 2320	Deacon Arrow II	-	-	RW-127	-	-	-	TTR	-	-	-	82	-	-
1959-S89	2436737.21	1959 Jun 17 1700	Deacon Arrow II	-	-	RW-128	-	-	-	TTR	-	-	-	81	-	-
1959-S90	2436737.54	1959 Jun 18 0100	Deacon Arrow II	-	-	RW-129	-	-	-	TTR	-	-	-	81	-	-
1959-M19	2436737.81	1959 Jun 18 0732	Deacon Arrow II	-	-	RW-130	-	-	-	TTR	-	-	-	80	-	-
1959-S91	2436738.04	1959 Jun 18 1300	Deacon Arrow II	-	-	RW-131	-	-	-	TTR	-	-	-	82	-	-
1959-M22	2436764.38	1959 Jul 14 2100	Deacon Arrow II	-	-	RW-132	-	-	-	TTR	-	-	-	76	-	-
1959-S110	2436764.89	1959 Jul 15 0915	Deacon Arrow II	-	-	RW-134	-	-	-	TTR	-	-	-	81	-	-
1959-S111	2436765.13	1959 Jul 15 1513	Deacon Arrow II	-	-	RW-135	-	-	-	TTR	-	-	-	83	-	-
1959-M23	2436765.15	1959 Jul 15 1534	Deacon Arrow II	-	-	RW-133	-	-	-	TTR	-	-	-	78	-	-
1959-S150	2436807.08	1959 Aug 26 1358	Deacon Arrow II	-	-	RW-137	-	-	-	TTR	-	-	-	81	-	-
1959-M26	2436807.32	1959 Aug 26 1935	Deacon Arrow II	-	-	RW-138	-	-	-	TTR	-	-	-	79	-	-
1959-M27	2436807.58	1959 Aug 27 0200	Deacon Arrow II	-	-	RW-139	-	-	-	TTR	-	-	-	80	-	-
1959-M28	2436807.78	1959 Aug 27 0642	Deacon Arrow II	-	-	RW-140	-	-	-	TTR	-	-	-	80	-	-
1959-M29	2436837.79	1959 Sep 26 0700	Deacon Arrow II	-	-	RW-141	-	-	-	TTR	-	-	-	72	-	-
1959-M30	2436838.04	1959 Sep 26 1300	Deacon Arrow II	-	-	RW-143	-	-	-	TTR	-	-	-	77	-	-
1959-M31	2436838.36	1959 Sep 26 2045	Deacon Arrow II	-	-	RW-144	-	-	-	TTR	-	-	-	71	-	-
1959-M37	2436876.56	1959 Nov 4 0123	Deacon Arrow II	-	-	RW-146	-	-	-	TTR	-	-	-	78	-	-
1959-S234	2436877.55	1959 Nov 5 0110	Deacon Arrow II	-	-	RW-147	-	-	-	TTR	-	-	-	84	-	-
1959-S235	2436878.55	1959 Nov 6 0113	Deacon Arrow II	-	-	RW-148	-	-	-	TTR	-	-	-	83	-	-
1959-M01	2436568.50	1959?	ALSOR	-	-	Model A (F1)	-	-	F-104-749	EAFB	RW04/22?	EAFB	LP1	74	-	-
1959-S01	2436568.50	1959?	ALSOR	-	-	Model A (F2)	-	-	F-104-749	EAFB	RW04/22?	EAFB	LP1	117	-	-
1960-M06	2437044.50	1960 Apr 20	ALSOR	-	-	Model A (F4)	-	-	F-104-749	EAFB?	RW04/22?	WTR	LP9	70?	-	-
1960-M08	2437054.50	1960 Apr 30	ALSOR	-	-	Model A (F5)	-	-	F-104-749	EAFB?	RW04/22?	WTR	LP9	62	-	-
1960-M14	2437085.50	1960 Jun	Apache	-	-	HIGHBALL test	-	-	-	WS	-	-	-	60?	-	-
1960-M19	2437116.50	1960 Jul 1	Deacon Arrow II	-	-	-	-	-	-	PA	LC-B	-	-	80?	-	-
1960-M20	2437123.50	1960 Jul 8	Deacon Arrow II	-	-	-	-	-	-	PA	LC-B	-	-	80?	-	-
1960-M21	2437129.50	1960 Jul 14	Deacon Arrow II	-	-	-	-	-	-	PA	LC-B	-	-	80?	-	-
1960-M38	2437207.50	1960 Oct	Apache	-	-	HIGHBALL IA test	-	-	-	WS	-	-	-	60?	-	-
1960-M39	2437207.50	1960 Oct?	Apache	-	-	HIGHBALL IB test	-	-	-	WS	-	-	-	60?	-	-
1960-M40	2437207.50	1960 Oct?	Apache	-	-	HIGHBALL IC test	-	-	-	WS	-	-	-	60?	-	-
1961-M87	2437299.50	1961 Jan?	ALSOR	-	-	NOTS Viperscan	-	-	F-104-749	EAFB	RW04/22?	EAFB	LP1	71	-	-
1961-S01	2437299.50	1961 Jan?	Kisha Judi	-	-	-	-	-	-	TTR?	-	-	-	100	-	-
1961-A03	2437299.50	1961	Pogo Hi II	-	-	Target test	-	-	-	PM	-	-	-	25	-	-
1961-M06	2437385.50	1961 Mar 27	Deacon Arrow II	-	-	Wind sphere	-	-	-	PA	LC-B	-	-	88?	-	-
1961-M36	2437330.50	1961 Feb	Apache	-	-	HIGHBALL III test	-	-	-	WS	-	-	-	60?	-	-
1961-M37	2437419.50	1961 May	Cajun	-	-	HIGHBALL II test	-	-	-	WS	-	-	-	60?	-	-
1961-A265	2437618.50	1961 Nov 15	Cajun	-	HIGHBALL	HIGHBALL II (Zeus)	-	-	-	WS	LC38	-	-	20?	-	-
1962-M43	2437701.50	1962 Feb 6	Cajun	-	HIGHBALL 59	HIGHBALL IIM SN 45	-	-	-	WS	-	-	-	60?	-	-
1962-M44	2437725.50	1962 Mar 2	Apache	-	HIGHBALL 60	HIGHBALL IH SN 9	-	-	-	WS	-	-	-	60?	-	-
1962-M45	2437743.50	1962 Mar 20	Cajun	-	HIGHBALL 61	HIGHBALL IIK SN 46	-	-	-	WS	-	-	-	60?	-	-
1962-M46	2437743.50	1962 Mar 20	Apache	-	HIGHBALL 62	HIGHBALL IH SN 10	-	-	-	WS	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-M47	2437744.50	1962 Mar 21	Apache	-	HIGHBALL 63	HIGHBALL IE SN11	-	-	-	WS	-	-	-	60?	-	-
1962-M48	2437745.50	1962 Mar 22	Apache	-	HIGHBALL 64	HIGHBALL IH SN12	-	-	-	WS	-	-	-	60?	-	-
1962-M49	2437749.50	1962 Mar 26	Apache	-	HIGHBALL 65	HIGHBALL IH SN13	-	-	-	WS	-	-	-	60?	-	-
1962-M50	2437749.50	1962 Mar 26	Cajun	-	HIGHBALL 66	HIGHBALL IIM SN47	-	-	-	WS	-	-	-	60?	-	-
1962-M51	2437751.50	1962 Mar 28	Apache	-	HIGHBALL 67	HIGHBALL IH SN14	-	-	-	WS	-	-	-	60?	-	-
1963-S17	2438053.50	1963 Jan 24	Deacon Arrow II	-	-	Tracking Flare Test	-	-	-	TTR	-	-	-	90	-	-
1963-S18	2438053.50	1963 Jan 24	Deacon Arrow II	-	-	Tracking Flare Test	-	-	-	TTR	-	-	-	90	-	-
1963-S182	2438149.76	1963 Apr 30 0613	Deacon Judi	-	-	RFD-1 Support	-	-	-	BERM	-	-	-	90?	-	-
1963-S183	2438149.89	1963 Apr 30 0921	Deacon Judi	-	-	RFD-1 Support	-	-	-	BERM	-	-	-	90?	-	-
1963-S656	2438149.50	1963 May?	Deacon Judi	-	Sandia	Sandia Chaff	-	-	-	KAU	-	-	-	120?	-	-
1963-S657	2438180.50	1963 Jun?	Deacon Judi	-	Sandia	Sandia Chaff	-	-	-	KAU	-	-	-	120?	-	-
1964-W62	2438627.33	1964 Aug 19 1951	Cajun Dart	-	01	-	-	-	-	EGL	-	-	-	75	-	-
1964-W65	2438629.32	1964 Aug 21 1939	Cajun Dart	-	02	-	-	-	-	EGL	-	-	-	75	-	-
1964-W66	2438632.24	1964 Aug 24 1745	Cajun Dart	-	03	-	-	-	-	EGL	-	-	-	75	-	-
1964-W67	2438636.28	1964 Aug 28 1846	Cajun Dart	-	04	-	-	-	-	EGL	-	-	-	75	-	-
1964-W85	2438669.95	1964 Oct 01 1047:00	Cajun Dart	?	NO!	-	-	-	-	EGL	-	-	-	75?	-	-
1964-A153	2438684.50	1964 Oct 16	Cajun Dart	-	05	-	-	-	-	EGL	-	-	-	0?	-	-
1964-W94	2438690.50	1964 Oct 22	Cajun Dart	-	06	-	-	-	-	EGL	-	-	-	75	-	-
1965-W18	2438809.29	1965 Feb 17 1904	Cajun Dart	-	07	-	-	-	-	CC	-	-	-	75	-	-
1965-W19	2438816.13	1965 Feb 24 1508	Cajun Dart	-	08	-	-	-	-	CC	-	-	-	75	-	-
1965-W20	2438818.23	1965 Feb 26 1730	Cajun Dart	-	09	-	-	-	-	CC	-	-	-	75	-	-
1965-W32	2438824.50	1965 Mar 5	Cajun Dart	-	10	-	-	-	-	CC	-	-	-	75	-	-
1965-W37	2438830.17	1965 Mar 10 1600	Cajun Dart	-	11	-	-	-	-	CC	-	-	-	75	-	-
1965-W38	2438830.32	1965 Mar 10 1942:00	Cajun Dart	?	-	-	-	-	-	CC	-	-	-	75?	-	-
1965-W44	2438837.22	1965 Mar 17 1710	Cajun Dart	-	12	-	-	-	-	CC	-	-	-	75	-	-
1965-W47	2438844.24	1965 Mar 24 1745	Cajun Dart	-	13	-	-	-	-	CC	-	-	-	75	-	-
1965-W54	2438851.21	1965 Mar 31 1701	Cajun Dart	-	14	-	-	-	-	CC	-	-	-	75	-	-
1965-W55	2438858.21	1965 Apr 7 1700	Cajun Dart	-	15	-	-	-	-	CC	-	-	-	75	-	-
1965-W56	2438865.24	1965 Apr 14 1744	Cajun Dart	-	16	-	-	-	-	CC	-	-	-	75	-	-
1965-W57	2438868.21	1965 Apr 17 1700	Cajun Dart	?	-	-	-	-	-	CC	-	-	-	75?	-	-
1965-W58	2438872.22	1965 Apr 21 1715	Cajun Dart	-	17	-	-	-	-	CC	-	-	-	75	-	-
1965-W59	2438878.50	1965 Apr 28	Cajun Dart	-	18	-	-	-	-	CC	-	-	-	75	-	-
1965-W68	2438893.29	1965 May 12 1900	Cajun Dart	-	19	-	-	-	-	CC	-	-	-	75	-	-
1965-W72	2438907.21	1965 May 26 1700	Cajun Dart	-	20	-	-	-	-	CC	-	-	-	75	-	-
1965-W79	2438914.21	1965 Jun 2 1700	Cajun Dart	-	21	-	-	-	-	CC	-	-	-	75	-	-
1965-W80	2438923.21	1965 Jun 11 1700	Cajun Dart	-	22	-	-	-	-	CC	-	-	-	75	-	-
1965-W82	2438928.25	1965 Jun 16 1800	Cajun Dart	-	23	-	-	-	-	CC	-	-	-	75	-	-
1965-W83	2438935.23	1965 Jun 23 1725	Cajun Dart	-	24	-	-	-	-	CC	-	-	-	75	-	-
1965-W92	2438942.13	1965 Jun 30 1503	Cajun Dart	-	25	-	-	-	-	CC	-	-	-	75	-	-
1965-W93	2438949.12	1965 Jul 7 1500	Cajun Dart	-	26	-	-	-	-	CC	-	-	-	75	-	-
1965-W98	2438956.21	1965 Jul 14 1709	Cajun Dart	-	27	-	-	-	-	CC	-	-	-	75?	-	-
1965-W101	2438963.21	1965 Jul 21 1700	Cajun Dart	-	28	-	-	-	-	CC	-	-	-	75	-	-
1965-W102	2438965.21	1965 Jul 23 1700	Cajun Dart	-	29	-	-	-	-	CC	-	-	-	75	-	-
1965-W103	2438970.08	1965 Jul 28 1400	Cajun Dart	-	30	-	-	-	-	CC	-	-	-	75	-	-
1965-W117	2438986.22	1965 Aug 13 1722:00	Cajun Dart	-	31	-	-	-	-	CC	-	-	-	75?	-	-
1965-W119	2438991.21	1965 Aug 18 1700:00	Cajun Dart	-	32	-	-	-	-	CC	-	-	-	75?	-	-
1965-W120	2438998.21	1965 Aug 25 1700:00	Cajun Dart	-	33	-	-	-	-	CC	-	-	-	75?	-	-
1965-W128	2439005.21	1965 Sep 01 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1965-W131	2439012.50	1965 Sep 09	Cajun Dart	-	34	-	-	-	-	CC	-	-	-	75?	-	-
1965-W134	2439021.21	1965 Sep 17 1700:00	Cajun Dart	-	35	-	-	-	-	CC	-	-	-	75?	-	-
1965-W135	2439026.21	1965 Sep 22 1700:00	Cajun Dart	-	36	-	-	-	-	CC	-	-	-	75?	-	-
1965-W137	2439033.17	1965 Sep 29 1600:00	Cajun Dart	-	37	-	-	-	-	CC	-	-	-	75?	-	-
1965-W147	2439040.22	1965 Oct 06 1718:00	Cajun Dart	-	38	-	-	-	-	CC	-	-	-	75?	-	-
1965-W148	2439046.50	1965 Oct 13	Cajun Dart	-	39	-	-	-	-	CC	-	-	-	75?	-	-
1965-W150	2439054.21	1965 Oct 20 1700:00	Cajun Dart	-	40	-	-	-	-	CC	-	-	-	75?	-	-
1965-W152	2439060.50	1965 Oct 27	Cajun Dart	-	41	-	-	-	-	CC	-	-	-	75?	-	-
1965-W161	2439066.21	1965 Nov 01 1700:00	Cajun Dart	-	42	-	-	-	-	CC	-	-	-	75?	-	-
1965-W162	2439072.50	1965 Nov 08	Cajun Dart	-	43	-	-	-	-	CC	-	-	-	75?	-	-
1965-W164	2439082.21	1965 Nov 17 1700:00	Cajun Dart	-	44	-	-	-	-	CC	-	-	-	75?	-	-
1965-W173	2439089.21	1965 Nov 24 1700:00	Cajun Dart	-	45	-	-	-	-	CC	-	-	-	75?	-	-
1965-W174	2439094.21	1965 Nov 29 1700:00	Cajun Dart	-	46	-	-	-	-	CC	-	-	-	75?	-	-
1965-W198	2439103.21	1965 Dec 08 1700:00	Cajun Dart	-	47	-	-	-	-	CC	-	-	-	75?	-	-
1965-W203	2439112.21	1965 Dec 17 1700:00	Cajun Dart	-	48	-	-	-	-	CC	-	-	-	75?	-	-
1965-W205	2439117.19	1965 Dec 22 1640:00	Cajun Dart	-	49	-	-	-	-	CC	-	-	-	75?	-	-
1966-W09	2439131.17	1966 Jan 5 1600	Cajun Dart	-	50	-	-	-	-	CC	-	-	-	75?	-	-
1966-W13	2439137.50	1966 Jan 12	Cajun Dart	-	51	-	-	-	-	CC	-	-	-	75?	-	-
1966-W20	2439144.50	1966 Jan 19	Cajun Dart	-	52	-	-	-	-	CC	-	-	-	75?	-	-
1966-W29	2439153.21	1966 Jan 27 1705:00	Cajun Dart	-	53	-	-	-	-	CC	-	-	-	75?	-	-
1966-M143	2439167.50	1966 Feb 11	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1966-W152	2439175.50	1966 Feb 19	Cajun Dart	-	54	-	-	-	-	CC	-	-	-	75?	-	-
1966-W165	2439178.96	1966 Feb 22 1100:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1966-W188	2439182.27	1966 Feb 25 1830:00	Cajun Dart	-	55	-	-	-	-	CC	-	-	-	75?	-	-
1966-W195	2439183.26	1966 Feb 26 1812:00	Cajun Dart	-	56	-	-	-	-	CC	-	-	-	75?	-	-
1966-Y08	2439230.50	1966 Apr 15	Cajun Dart	-	-	B-1-2289 Robinette	-	-	-	WI	-	-	-	93	-	-
1966-Y11	2439250.50	1966 May 5	Cajun Dart	-	-	B-1-2290 Robinette	-	-	-	WI	-	-	-	94	-	-
1966-Y25	2439292.50	1966 Jun 16	Cajun Dart	-	-	B-1-2291 Robinette	-	-	-	WI	-	-	-	93	-	-
1966-Y27	2439304.50	1966 Jun 28	Cajun Dart	-	-	B-1-2292 Robinette	-	-	-	WI	-	-	-	96	-	-
1966-W288	2439310.50	1966 Jul 04	Cajun Dart	-	57	-	-	-	-	CC	-	-	-	75?	-	-
1966-M144	2439312.20	1966 Jul 5 1645	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1966-W289	2439312.50	1966 Jul 06	Cajun Dart	-	58	-	-	-	-	CC	-	-	-	75?	-	-
1966-W308	2439362.19	1966 Aug 24 1630:00	Cajun Dart	-	59	-	-	-	-	CC	-	-	-	75?	-	-
1966-W309	2439363.30	1966 Aug 25 1908:00	Cajun Dart	-	60	-	-	-	-	CC	-	-	-	75?	-	-
1967-W34	2439514.84	1967 Jan 24 0806:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1967-W59	2439559.50	1967 Mar 10	Cajun Dart	-	-	Robinette	-	-	-	EGL?	-	-	-	76	-	-
1967-M145	2439607.50	1967 Apr 27	Cajun	?	-	HIGHBALL MAR test	-	-	-	WS	-	-	-	60?	-	-
1967-W214	2439803.04	1967 Nov 08 1300:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-W215	2439804.10	1967 Nov 09 1430:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1968-W30	2439878.58	1968 Jan 23 0200:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1968-W83	2439951.29	1968 Apr 04 1851:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1968-A125	2440037.50	1968 Jul?	Cajun	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-A126	2440129.50	1968 Oct?	Cajun	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-A127	2440129.50	1968 Oct?	Cajun	-	-	Kangaroo	-	-	-	PM?	-	-	-	50	-	-
1968-A128	2440160.50	1968 Nov?	Cajun	-	-	Kangaroo	-	-	-	PM	-	-	-	40?	-	-
1968-A129	2440160.50	1968 Nov?	Cajun	-	-	Kangaroo	-	-	-	PM	-	-	-	40?	-	-
1968-A130	2440160.50	1968 Nov?	Cajun	-	-	Kangaroo	-	-	-	PM	-	-	-	40?	-	-
1968-A131	2440160.50	1968 Nov?	Cajun	-	-	Kangaroo	-	-	-	PM	-	-	-	40?	-	-
1968-W228	2440141.33	1968 Oct 11 2001:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1968-W245	2440181.32	1968 Nov 20 1941:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W420	2440665.21	1970 Mar 19 1707:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W425	2440666.21	1970 Mar 20 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W431	2440669.17	1970 Mar 23 1600:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W444	2440671.17	1970 Mar 25 1600:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M31	2440671.50	1970 Mar 26	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W457	2440673.21	1970 Mar 27 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M32	2440675.50	1970 Mar 30	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W466	2440677.21	1970 Mar 31 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M33	2440677.50	1970 Apr 1	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M34	2440678.50	1970 Apr 2	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M35	2440679.50	1970 Apr 3	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W493	2440683.21	1970 Apr 06 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W499	2440684.14	1970 Apr 07 1525:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W504	2440685.21	1970 Apr 08 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W512	2440686.21	1970 Apr 09 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M36	2440689.50	1970 Apr 13	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-M37	2440690.50	1970 Apr 14	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W544	2440692.21	1970 Apr 15 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W554	2440693.21	1970 Apr 16 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W560	2440694.21	1970 Apr 17 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-
1970-W570	2440697.21	1970 Apr 20 1700:00	Cajun Dart	-	-	-	-	-	-	CC	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1947-A07	2432275.50	1947 Apr	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A15	2432397.50	1947 Aug	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A01	2432550.50	1948	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A21	2432782.50	1948 Aug 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A32	2432818.50	1948 Sep 24	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A45	2432908.50	1948 Dec 23	Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1949-A05	2432949.50	1949 Feb 2	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A08	2433003.50	1949 Mar 28	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A09	2433004.50	1949 Mar 29	Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1949-A10	2433005.50	1949 Mar 30	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A11	2433006.50	1949 Apr	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A12	2433006.50	1949 Apr	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A13	2433027.50	1949 Apr 21	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A20	2433060.50	1949 May 24	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A23	2433151.50	1949 Aug 23	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A25	2433180.50	1949 Sep 21	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A27	2433236.50	1949 Nov 16	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1949-A29	2433273.50	1949 Dec 23	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A01	2433292.50	1950 Jan 11	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A02	2433306.50	1950 Jan 25	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A14	2433364.50	1950 Mar 24	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A21	2433413.50	1950 May 12	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A24	2433424.50	1950 May 23	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A26	2433438.50	1950 Jun 6	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A28	2433493.50	1950 Aug	Deacon Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A29	2433493.50	1950 Aug	Deacon Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1950-A33	2433511.50	1950 Aug 18	Deacon Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A35	2433524.50	1950 Aug 31	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A36	2433532.50	1950 Sep 8	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A39	2433556.50	1950 Oct 2	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A48	2433587.50	1950 Nov 2	Deacon HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A52	2433600.50	1950 Nov 15	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A53	2433601.50	1950 Nov 16	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A59	2433622.50	1950 Dec 7	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A03	2433683.50	1951 Feb 6	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A08	2433728.50	1951 Mar 23	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A17	2433773.50	1951 May 7	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A21	2433783.50	1951 May 17	Deacon	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A32	2433822.50	1951 Jun 25	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A34	2433824.50	1951 Jun 27	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A43	2433845.50	1951 Jul 18	Double Deacon	-	Double Deacon	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1951-A50	2433860.50	1951 Aug 2	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A54	2433875.50	1951 Aug 17	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A59	2433894.50	1951 Sep 5	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A87	2433979.50	1951 Nov 29	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A100	2433999.50	1951 Dec 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A101	2433999.50	1951 Dec 19	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A01	2434011.50	1952 Jan	Double Deacon	-	Double Deacon	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1952-A08	2434034.50	1952 Jan 23	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A40	2434076.50	1952 Mar 5	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A44	2434084.50	1952 Mar 13	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A47	2434089.50	1952 Mar 18	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A48	2434090.50	1952 Mar 19	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A55	2434102.50	1952 Apr	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A67	2434125.50	1952 Apr 23	Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1952-A77	2434148.50	1952 May 16	Deacon	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A83	2434154.50	1952 May 22	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A84	2434154.50	1952 May 22	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A95	2434176.50	1952 Jun 13	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A283	2434190.07	1952 Jun 26 1345	Deacon	-	-	0.000	SUI	SS	-	SUI/Meredith	CR	PhysRev99,198	-	-
1952-A288	2434193.50	1952 Jul?	Deacon	-	-	0.000	SUI	SS	-	SUI/Meredith	CR	Ludwig	-	-
1952-A289	2434193.50	1952 Jul	Deacon	-	-	0.000	SUI	SS	-	SUI/Meredith	CR	Ludwig	-	-
1952-A109	2434201.50	1952 Jul 8	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1952-A126	2434229.50	1952 Aug 5	Deacon Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A127	2434230.50	1952 Aug 6	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A128	2434230.50	1952 Aug 6	Deacon	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A141	2434245.77	1952 Aug 21 0625	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/VanAllen	Test	Newell	-	-
1952-A142	2434248.65	1952 Aug 24 0334	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Test	Newell	-	-
1952-M05	2434253.52	1952 Aug 29 0026	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Test	Newell	-	-
1952-M06	2434253.82	1952 Aug 29 0736	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1952-S23	2434254.26	1952 Aug 29 1815	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1952-M07	2434256.38	1952 Aug 31 2110	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1952-A146	2434255.50	1952 Sep	Deacon Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-M08	2434259.89	1952 Sep 4 0917	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1952-A147	2434260.50	1952 Sep 5	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A153	2434266.50	1952 Sep 11	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A160	2434274.50	1952 Sep 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A162	2434279.50	1952 Sep 24	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A165	2434280.50	1952 Sep 25	Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1952-A198	2434315.50	1952 Oct 30	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A202	2434316.50	1952 Oct 31	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1952-A203	2434316.50	1952 Nov	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A209	2434323.50	1952 Nov 7	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A217	2434328.50	1952 Nov 12	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A231	2434335.50	1952 Nov 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A266	2434358.50	1952 Dec 12	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A275	2434364.50	1952 Dec 18	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A276	2434364.50	1952 Dec 18	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A01	2434377.50	1953	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A02	2434377.50	1953 Jan	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A16	2434391.50	1953 Jan 14	Quad Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A24	2434399.50	1953 Jan 22	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A94	2434441.50	1953 Mar 5	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A134	2434456.50	1953 Mar 20	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1953-A165	2434477.50	1953 Apr 10	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A210	2434505.50	1953 May 8	Triple Deacon	-	-	0.000	PARD	AS	-	-	Test	AE1960	-	-
1953-A239	2434538.50	1953 Jun 10	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A247	2434546.50	1953 Jun 18	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A259	2434553.50	1953 Jun 25	Triple Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A293	2434573.50	1953 Jul 15	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A297	2434577.44	1953 Jul 18 2227	Deacon Rockoon	-	MUSHRAT 1	0.000	SUI	SF	U	SUI/	CR	Newell	PhysRev95,147	-
1953-A298	2434577.94	1953 Jul 19 1030	Deacon Rockoon	-	MUSHRAT 2	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-A299	2434578.16	1953 Jul 19 1553	Deacon Rockoon	-	MUSHRAT 3	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-A300	2434578.41	1953 Jul 19 2157	Deacon Rockoon	-	MUSHRAT 4	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-A306	2434583.19	1953 Jul 24 1640	Deacon Rockoon	-	MUSHRAT 5	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-S27	2434586.90	1953 Jul 28 0941	Deacon Rockoon	-	MUSHRAT 6	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1953-A309	2434593.27	1953 Aug 3 1828	Deacon Rockoon	-	MUSHRAT 7	0.000	SUI	SU	-	SUI/	CR	Newell	-	-
1953-A311	2434593.50	1953 Aug 4	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-M05	2434595.41	1953 Aug 5 2154	Deacon Rockoon	-	MUSHRAT 9	0.000	NRL	SS	-	NRL/LaGow	Aeron	Newell	JGR61,77	-
1953-A317	2434596.13	1953 Aug 6 1507	Deacon Rockoon	-	MUSHRAT 10	0.000	SUI	SS	-	SUI/	CR	Newell	PhysRev95,147	-
1953-S28	2434596.28	1953 Aug 6 1840	Deacon Rockoon	-	MUSHRAT 11	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1953-M06	2434598.13	1953 Aug 8 1509	Deacon Rockoon	-	MUSHRAT 12	0.000	NRL	SS	-	NRL/LaGow	Aeron	Newell	JGR61,77	-
1953-S29	2434598.75	1953 Aug 9 0554	Deacon Rockoon	-	MUSHRAT 13	0.000	SUI	SS	-	SUI/	CR	Newell	PhysRev95,147	-
1953-A318	2434599.30	1953 Aug 9 1915	Deacon Rockoon	-	MUSHRAT 14	0.000	NRL	SF	U	NRL/LaGow	Aeron	Newell	JGR61,77	-
1953-M07	2434601.21	1953 Aug 11 1709	Deacon Rockoon	-	MUSHRAT 15	0.000	NRL	SS	-	NRL/LaGow	Aeron	Newell	JGR61,77	-
1953-A330	2434608.50	1953 Aug 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A331	2434608.50	1953 Aug 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A332	2434609.50	1953 Aug 20	Triple Deacon HPAG	-	-	0.000	PARD	AS	-	-	Test	RP-1028	TN-D-216	-
1953-A338	2434620.08	1953 Aug 30 1400	Deacon Rockoon	-	Eastwind 54-1	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-A339	2434620.18	1953 Aug 30 1620	Deacon Rockoon	-	Eastwind 54-2	0.000	SUI	SF	U	SUI/	CR	Newell	-	-
1953-S30	2434620.37	1953 Aug 30 2046	Deacon Rockoon	-	Eastwind 54-3	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1953-S32	2434623.91	1953 Sep 3 0950	Deacon Rockoon	-	Eastwind 54-4	0.000	SUI	SS	-	SUI/	CR	Newell	PhysRev95,147	-
1953-S33	2434623.99	1953 Sep 3 1151	Deacon Rockoon	-	Eastwind 54-5	0.000	SUI	SS	-	SUI/	CR	Newell	PhysRev95,147	-
1953-S34	2434624.09	1953 Sep 3 1405	Deacon Rockoon	-	Eastwind 54-6	0.000	SUI	SS	-	SUI/	CR	Newell	-	-
1953-M08	2434624.67	1953 Sep 4 0359	Deacon Rockoon	-	Eastwind 54-7	0.000	NRL	SS	-	NRL/	Aeron	Newell	JGR61,77	-
1953-M09	2434625.16	1953 Sep 4 1551	Deacon Rockoon	-	Eastwind 54-8	0.000	NRL	SS	-	NRL/	Aeron	Newell	JGR61,77	-
1953-A390	2434657.50	1953 Oct 7	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A401	2434665.50	1953 Oct 15	Deacon Sidewinder	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A418	2434676.50	1953 Oct 26	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A422	2434681.50	1953 Nov	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1953-A455	2434701.50	1953 Nov 20	Triple Deacon HPAG	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A466	2434713.50	1953 Dec 2	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A469	2434718.50	1953 Dec 7	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	TN-D-177	-
1953-A483	2434727.50	1953 Dec 16	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A488	2434728.50	1953 Dec 17	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A03	2434746.50	1954 Jan 4	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A05	2434749.50	1954 Jan 7	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A33	2434769.50	1954 Jan 27	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A46	2434782.50	1954 Feb 9	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A73	2434797.50	1954 Feb 24	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A85	2434801.50	1954 Mar	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A116	2434820.50	1954 Mar 19	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A124	2434825.50	1954 Mar 24	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A126	2434827.50	1954 Mar 26	Quad Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A711	2434852.50	1954 Apr 20	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	psl.nmsu.edu	-
1954-A183	2434853.50	1954 Apr 21	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A186	2434854.50	1954 Apr 22	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A719	2434859.50	1954 Apr 27	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A214	2434861.50	1954 Apr 29	Tri-Deacon Deacon HPAG	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A720	2434890.50	1954 May 28	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A315	2434896.50	1954 Jun 3	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A318	2434897.50	1954 Jun 4	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A379	2434921.50	1954 Jun 28	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-S44	2434940.01	1954 Jul 16 1213	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-A414	2434940.42	1954 Jul 16 2158	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1954-A417	2434943.17	1954 Jul 19 1600	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/LaGow	Aeron	JGR61,77	Newell/1437UTC	-
1954-A418	2434943.35	1954 Jul 19 2030	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Aeron	Newell	-	-
1954-S45	2434943.62	1954 Jul 20 0255	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1954-M01	2434944.88	1954 Jul 21 0903	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S46	2434945.03	1954 Jul 21 1245	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-A428	2434945.37	1954 Jul 21 2049	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1954-S47	2434946.30	1954 Jul 22 1915:00	Deacon	-	-	0.000	NRL	SS	-	NRL/MacDonald,Friedman	GR Astron	WDCRF	-	-
1954-S48	2434947.12	1954 Jul 23 1446	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S49	2434947.21	1954 Jul 23 1709	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1954-S50	2434947.25	1954 Jul 23 1754	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-A435	2434947.32	1954 Jul 23 1937	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1954-S51	2434947.87	1954 Jul 24 0857	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S52	2434948.05	1954 Jul 24 1316	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S53	2434948.79	1954 Jul 25 0651	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S54	2434949.02	1954 Jul 25 1236	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S55	2434949.15	1954 Jul 25 1530	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1954-S56	2434949.28	1954 Jul 25 1845	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/LaGow	Aeron	JGR61,77	Newell/1727UTC	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A442	2434949.52	1954 Jul 26 0029	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/	Ionos/Aeron?	Newell	-	-
1954-S58	2434949.96	1954 Jul 26 1102	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1954-A444	2434950.50	1954 Jul 27	Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1954-A721	2434950.50	1954 Jul 27	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A469	2434965.50	1954 Aug 11	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A722	2434967.50	1954 Aug 13	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A499	2434987.50	1954 Sep 2	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A723	2434992.50	1954 Sep 7	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A724	2435007.50	1954 Sep 22	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1954-A589	2435037.50	1954 Oct 22	Double Deacon	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1954-A707	2435092.50	1954 Dec 16	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A01	2435107.50	1955	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A02	2435107.50	1955	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A12	2435118.50	1955 Jan 11	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A55	2435135.50	1955 Jan 28	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A207	2435189.50	1955 Mar 23	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A228	2435194.50	1955 Mar 28	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A304	2435218.50	1955 Apr 21	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A449	2435278.50	1955 Jun 20	Deacon	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A452	2435286.50	1955 Jun 28	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-S74	2435375.19	1955 Sep 24 1635	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-A476	2435378.30	1955 Sep 27 1912	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/	Ionos/Aeron?	Newell	-	-
1955-S76	2435378.32	1955 Sep 27 1943	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1955-S77	2435378.37	1955 Sep 27 2054	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S79	2435379.03	1955 Sep 28 1245	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1955-S80	2435379.12	1955 Sep 28 1454	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-A477	2435379.24	1955 Sep 28 1740	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/	Ionos/Aeron?	Newell	-	-
1955-S81	2435379.31	1955 Sep 28 1922	Deacon-Loki Rockoon	-	-	0.000	SUI	SF	U	SUI/	Test	Newell	-	-
1955-S82	2435380.07	1955 Sep 29 1342	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S83	2435380.30	1955 Sep 29 1913	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S84	2435380.41	1955 Sep 29 2152	Deacon-Loki Rockoon	-	-	0.000	SUI	SF	U	SUI/	Test	Newell	-	-
1955-A479	2435380.50	1955 Oct	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A480	2435386.95	1955 Oct 6 1054	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/	Ionos/Aeron?	Newell	-	-
1955-S90	2435387.30	1955 Oct 6 1910	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-A482	2435391.50	1955 Oct 11	Deacon	-	-	0.000	PARD/USN	AS	-	-	Aeron/Test	RP-1028	-	-
1955-A483	2435391.50	1955 Oct 11	Deacon	-	-	0.000	PARD/USN	AS	-	-	Aeron/Test	RP-1028	-	-
1955-A484	2435392.11	1955 Oct 11 1433	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1955-S92	2435392.11	1955 Oct 11 1437	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1955-M07	2435393.78	1955 Oct 13 0637	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/	Ionos/Aeron?	Newell	-	-
1955-S94	2435394.03	1955 Oct 13 1244	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-M08	2435394.07	1955 Oct 13 1342	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/	Ionos/Aeron?	Newell	-	-
1955-A485	2435394.14	1955 Oct 13 1524	Deacon Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1955-S95	2435394.34	1955 Oct 13 2013	Deacon Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-A489	2435427.50	1955 Nov 16	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A562	2435446.50	1955 Dec 5	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1955-A496	2435454.50	1955 Dec 13	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A07	2435498.50	1956 Jan 26	Tandem Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	TN-D-836	-
1956-A10	2435504.50	1956 Feb 1	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A209	2435513.50	1956 Feb 10	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A210	2435520.50	1956 Feb 17	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A22	2435524.50	1956 Feb 21	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A211	2435609.50	1956 May 16	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A212	2435624.50	1956 May 31	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A213	2435624.50	1956 May 31	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A63	2435646.50	1956 Jun 22	Tandem Double Deacon	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A65	2435651.50	1956 Jun 27	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A214	2435653.50	1956 Jun 29	Pogo Hi	-	1038	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A215	2435660.50	1956 Jul 6	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A216	2435660.50	1956 Jul 6	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-S53	2435672.32	1956 Jul 17 1940	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	Nature179,861	-
1956-S54	2435673.33	1956 Jul 18 2000	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-S56	2435674.31	1956 Jul 19 1932	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-S59	2435675.30	1956 Jul 20 1915	Deacon Rockoon	-	8	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Nature179,861	Nature179,861	-
1956-A74	2435676.42	1956 Jul 21 2200	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/Chubb,Friedman	Aeron	Newell	-	-
1956-S60	2435677.30	1956 Jul 22 1910	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-A75	2435679.30	1956 Jul 24 1910	Deacon Rockoon	-	-	0.000	NRL	SF	U	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-S63	2435680.39	1956 Jul 25 2115	Deacon Rockoon	-	-	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-S65	2435681.38	1956 Jul 26 2100	Deacon Rockoon	-	NN5.35	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-S66	2435682.21	1956 Jul 27 1705	Deacon Rockoon	-	NN5.36	0.000	NRL	SF	U	NRL/Chubb,Friedman	Solar UV/Solar X	Newell	-	-
1956-A89	2435737.50	1956 Sep 21	Terrapin	-	M1	0.000	PARD/NSA	SF	U	UMD/	Test	Newell	RP-1028	-
1956-S81	2435737.50	1956 Sep 21	Terrapin	-	M2	0.000	PARD/NSA	SS	-	UMD/	Test	Newell	RP-1028	-
1956-A217	2435764.50	1956 Oct 18	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1956-A113	2435804.50	1956 Nov 27	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A121	2435820.50	1956 Dec 13	Rockaire	-	RA-1?	0.000	AFCRL	SS	-	AFCRL/Kraff,Slavin	Test	Newell	-	-
1956-A123	2435821.50	1956 Dec 14	Rockaire	-	RA-2	0.000	AFCRL	SS	-	AFCRL/Kraff,Slavin	Test	Newell	-	-
1956-A124	2435824.50	1956 Dec 17	Rockaire	-	RA-3	0.000	AFCRL	SS	-	AFCRL/Kraff,Slavin	Test	Newell	-	-
1956-A125	2435826.50	1956 Dec 19	Rockaire	-	RA-4	0.000	AFCRL	SS	-	AFCRL/Kraff,Slavin	Test	Newell	-	-
1956-A218	2435827.50	1956 Dec 20	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/Moore	Target	wsmr-history.org	-	-
1957-S01	2435838.50	1957	Terrapin	-	-	0.000	NSA	SS	-	UMD/	CR?	RP-1028	-	-
1957-S02	2435838.50	1957	Terrapin	-	-	0.000	NSA	SS	-	UMD/	CR?	RP-1028	-	-
1957-S03	2435838.50	1957	Terrapin	-	-	0.000	NSA	SS	-	UMD/	CR?	RP-1028	-	-
1957-S04	2435838.50	1957	Terrapin	-	-	0.000	NSA	SS	-	UMD/	CR?	RP-1028	-	-
1957-A10	2435882.50	1957 Feb 13	Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1957-A42	2435981.50	1957 May 23	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1957-A131	2436162.50	1957 Nov 20	Double Cajun T40	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A31	2436307.50	1958 Apr 14	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A206	2436412.50	1958 Jul 28	Cajun	-	-	0.000	PARD	AS	-	LARCN/Krieger	Test	RP-1028	-	-
1958-M32	2436416.50	1958 Aug 1	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M33	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M34	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M35	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M36	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M37	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M38	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M39	2436427.89	1958 Aug 12 0927	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-A100	2436440.50	1958 Aug 25	Deacon	-	-	0.000	NMSU/NOTS	SS	-	USN/	Test	ARGUS	-	-
1958-A101	2436440.50	1958 Aug 25	Deacon	-	-	0.000	NMSU/NOTS	SS	-	USN/	Test	ARGUS	-	-
1958-A102	2436440.50	1958 Aug 25	Deacon	-	-	0.000	NMSU/NOTS	SS	-	USN/	Test	ARGUS	-	-
1958-A104	2436441.50	1958 Aug 26	Deacon	-	-	0.000	NMSU/NOTS	SS	-	USN/	Test	ARGUS	-	-
1958-A110	2436454.50	1958 Sep 8	Double Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A210	2436203.50	1958?	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/	Target	NMSU/NOTS	-	-
1958-A211	2436203.50	1958?	Pogo Hi	-	-	0.000	NMSU/NOTS	SS	-	NMSU/	Target	NMSU/NOTS	-	-
1958-A212	2436203.50	1958?	Pogo Hi	-	-	0.000	AFMDC	SS	-	NMSU/	Target	NMSU/NOTS	-	-
1958-A213	2436203.50	1958?	Pogo Hi	-	-	0.000	NOTS	SS	-	NOTS/	Target	NMSU/NOTS	-	-
1958-A207	2436203.50	1958?	Pogo Hi	-	Terrier Target	0.000	NMSU/NOTS	AS	-	NMSU/Moore	Target	BobAmmons	-	-
1958-A208	2436203.50	1958?	Pogo Hi	-	Terrier Target	0.000	NMSU/NOTS	AS	-	NMSU/Moore	Target	BobAmmons	-	-
1958-A209	2436203.50	1958?	Pogo Hi II	-	-	0.000	BTL	AS	-	NMSU/Moore	Target	NMSU	-	-
1958-A214	2436203.50	1958?	Pogo Hi II	-	-	0.000	NOTS	AS	-	NOTS/	Target	NMSU	-	-
1958-M21	2436527.36	1958 Nov 19 2032	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M22	2436527.60	1958 Nov 20 0225	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-S263	2436527.85	1958 Nov 20 0818	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-S264	2436528.09	1958 Nov 20 1410	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-M28	2436553.40	1958 Dec 15 2137	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-S289	2436553.64	1958 Dec 16 0325	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-S290	2436553.87	1958 Dec 16 0849	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1958-S291	2436554.12	1958 Dec 16 1447	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-A248	2436568.50	1959?	Pogo Hi II	-	-	0.000	HAC	AS	-	NMSU/Moore	Target	NSMU	-	-
1959-A249	2436568.50	1959?	Pogo Hi II	-	-	0.000	HAC	AS	-	NMSU/Moore	Target	NSMU	-	-
1959-A250	2436568.50	1959?	Pogo Hi II	-	-	0.000	HAC	AS	-	NMSU/Moore	Target	NSMU	-	-
1959-A251	2436568.50	1959?	Pogo Hi II	-	-	0.000	HAC	AS	-	NMSU/Moore	Target	NSMU	-	-
1959-S08	2436596.36	1959 Jan 27 2035	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S11	2436596.81	1959 Jan 28 0728	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S27	2436640.28	1959 Mar 12 1845	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S28	2436640.53	1959 Mar 13 0038	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M06	2436640.81	1959 Mar 13 0730	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S29	2436641.02	1959 Mar 13 1230	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M11	2436674.96	1959 Apr 16 1109	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M12	2436675.21	1959 Apr 16 1700	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S50	2436675.47	1959 Apr 16 2310	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S51	2436675.71	1959 Apr 17 0500	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S62	2436693.87	1959 May 5 0855	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S63	2436694.47	1959 May 5 2320	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S89	2436737.21	1959 Jun 17 1700	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S90	2436737.54	1959 Jun 18 0100	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M19	2436737.81	1959 Jun 18 0732	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S91	2436738.04	1959 Jun 18 1300	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M22	2436764.38	1959 Jul 14 2100	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S110	2436764.89	1959 Jul 15 0915	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S111	2436765.13	1959 Jul 15 1513	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M23	2436765.15	1959 Jul 15 1534	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S150	2436807.08	1959 Aug 26 1358	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M26	2436807.32	1959 Aug 26 1935	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M27	2436807.58	1959 Aug 27 0200	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M28	2436807.78	1959 Aug 27 0642	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M29	2436837.79	1959 Sep 26 0700	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M30	2436838.04	1959 Sep 26 1300	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M31	2436838.36	1959 Sep 26 2045	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M37	2436876.56	1959 Nov 4 0123	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S234	2436877.55	1959 Nov 5 0110	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-S235	2436878.55	1959 Nov 6 0113	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Aeron	WDCRF	-	-
1959-M01	2436568.50	1959?	ALSOR	-	-	0.000	FRC	SS	-	FRC/	Test	NOTS	TN-D-1279	-
1959-S01	2436568.50	1959?	ALSOR	-	-	0.000	FRC	SS	-	FRC/	Test	NOTS	TN-D-1279	-
1960-M06	2437044.50	1960 Apr 20	ALSOR	-	-	0.000	FRC	SF	U	FRC/	Test	NOTS	TN-D-1279	-
1960-M08	2437054.50	1960 Apr 30	ALSOR	-	-	0.000	FRC	SS	-	FRC/	Test	NOTS	TN-D-1279	-
1960-M14	2437085.50	1960 Jun	Apache	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	MR600627-17	-	-
1960-M19	2437116.50	1960 Jul 1	Deacon Arrow II	-	-	0.000	AEC	SU	-	SAND/	Aeron?	VAFB	-	-
1960-M20	2437123.50	1960 Jul 8	Deacon Arrow II	-	-	0.000	AEC	SU	-	SAND/	Aeron?	VAFB	-	-
1960-M21	2437129.50	1960 Jul 14	Deacon Arrow II	-	-	0.000	AEC	SU	-	SAND/	Aeron?	VAFB	-	-
1960-M38	2437207.50	1960 Oct	Apache	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	PSLDocs	-	-
1960-M39	2437207.50	1960 Oct?	Apache	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	PSLDocs	-	-
1960-M40	2437207.50	1960 Oct?	Apache	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	PSLDocs	-	-
1961-M87	2437299.50	1961 Jan?	ALSOR	-	-	0.000	FRC	SS	-	FRC/NOTS/	Test	NOTS4	TN-D-1279	-
1961-S01	2437299.50	1961 Jan?	Kisha Judi	-	-	0.000	SAND	SS	-	SAND/	Test	Morrow	-	-
1961-A03	2437299.50	1961	Pogo Hi II	-	-	0.000	NMC	AS	-	NMSU/	Test	MR620212-24	-	-
1961-M06	2437385.50	1961 Mar 27	Deacon Arrow II	-	-	0.000	SAND	SU	-	SAND/	Aeron	VAFB	SandNews630303	-
1961-M36	2437330.50	1961 Feb	Apache	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	PSLDocs	-	-
1961-M37	2437419.50	1961 May	Cajun	-	-	0.000	NMSU	SS	-	NMSU/Moore	Test	PSLDocs	-	-
1961-A265	2437618.50	1961 Nov 15	Cajun	-	HIGHBALL	0.000	MICOM	MS	-	-	Target	CDBMD	-	-
1962-M43	2437701.50	1962 Feb 6	Cajun	-	HIGHBALL 59	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M44	2437725.50	1962 Mar 2	Apache	-	HIGHBALL 60	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M45	2437743.50	1962 Mar 20	Cajun	-	HIGHBALL 61	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M46	2437743.50	1962 Mar 20	Apache	-	HIGHBALL 62	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-M47	2437744.50	1962 Mar 21	Apache	-	HIGHBALL 63	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M48	2437745.50	1962 Mar 22	Apache	-	HIGHBALL 64	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M49	2437749.50	1962 Mar 26	Apache	-	HIGHBALL 65	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M50	2437749.50	1962 Mar 26	Cajun	-	HIGHBALL 66	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1962-M51	2437751.50	1962 Mar 28	Apache	-	HIGHBALL 67	0.000	MICOM	MS	-	NMSU/	Target	SpeedballRpt	-	-
1963-S17	2438053.50	1963 Jan 24	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Test	SP-4004	SandNews630118	-
1963-S18	2438053.50	1963 Jan 24	Deacon Arrow II	-	-	0.000	SAND	SS	-	SAND/	Test	SP-4004	-	-
1963-S182	2438149.76	1963 Apr 30 0613	Deacon Judi	-	-	0.000	WFF	SS	-	WFF/?	Aeron	WI-PR63-43	SP-4004	-
1963-S183	2438149.89	1963 Apr 30 0921	Deacon Judi	-	-	0.000	WFF	SS	-	WFF/?	Aeron	WI-PR63-43	SP-4004	-
1963-S656	2438149.50	1963 May?	Deacon Judi	-	Sandia	0.000	SAND	SS	-	SAND/Smith	Aeron	SandNews630329	-	-
1963-S657	2438180.50	1963 Jun?	Deacon Judi	-	Sandia	0.000	SAND	SS	-	SAND/Smith	Aeron	SandNews630329	-	-
1964-W62	2438627.33	1964 Aug 19 1951	Cajun Dart	-	01	0.000	MSFC	SS	-	MSFC/	Test	WDCRF	Morrow	-
1964-W65	2438629.32	1964 Aug 21 1939	Cajun Dart	-	02	0.000	MSFC	SS	-	MSFC/	Test	WDCRF	Morrow	-
1964-W66	2438632.24	1964 Aug 24 1745	Cajun Dart	-	03	0.000	MSFC	SS	-	MSFC/	Test	CR-74067	WDCRF	-
1964-W67	2438636.28	1964 Aug 28 1846	Cajun Dart	-	04	0.000	MSFC	SS	-	MSFC/	Test	CR-74067	Morrow	-
1964-W85	2438669.95	1964 Oct 01 1047:00	Cajun Dart	?	NO!	0.000	MSFC	SU	-	MSFC/	Aeron	WDCRF	-	-
1964-A153	2438684.50	1964 Oct 16	Cajun Dart	-	05	0.000	MSFC	SF	U	MSFC/	Test	Morrow	-	-
1964-W94	2438690.50	1964 Oct 22	Cajun Dart	-	06	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1965-W18	2438809.29	1965 Feb 17 1904	Cajun Dart	-	07	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	Morrow	-
1965-W19	2438816.13	1965 Feb 24 1508	Cajun Dart	-	08	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	Morrow	-
1965-W20	2438818.23	1965 Feb 26 1730	Cajun Dart	-	09	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	Morrow	-
1965-W32	2438824.50	1965 Mar 5	Cajun Dart	-	10	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1965-W37	2438830.17	1965 Mar 10 1600	Cajun Dart	-	11	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W38	2438830.32	1965 Mar 10 1942:00	Cajun Dart	?	-	0.000	MSFC	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W44	2438837.22	1965 Mar 17 1710	Cajun Dart	-	12	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W47	2438844.24	1965 Mar 24 1745	Cajun Dart	-	13	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W54	2438851.21	1965 Mar 31 1701	Cajun Dart	-	14	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W55	2438858.21	1965 Apr 7 1700	Cajun Dart	-	15	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W56	2438865.24	1965 Apr 14 1744	Cajun Dart	-	16	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W57	2438868.21	1965 Apr 17 1700	Cajun Dart	?	-	0.000	MSFC?	SS	-	MSFC/	Aeron	WDCRF	-	-
1965-W58	2438872.22	1965 Apr 21 1715	Cajun Dart	-	17	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W59	2438878.50	1965 Apr 28	Cajun Dart	-	18	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1965-W68	2438893.29	1965 May 12 1900	Cajun Dart	-	19	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W72	2438907.21	1965 May 26 1700	Cajun Dart	-	20	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W79	2438914.21	1965 Jun 2 1700	Cajun Dart	-	21	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W80	2438923.21	1965 Jun 11 1700	Cajun Dart	-	22	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W82	2438928.25	1965 Jun 16 1800	Cajun Dart	-	23	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W83	2438935.23	1965 Jun 23 1725	Cajun Dart	-	24	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W92	2438942.13	1965 Jun 30 1503	Cajun Dart	-	25	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W93	2438949.12	1965 Jul 7 1500	Cajun Dart	-	26	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W98	2438956.21	1965 Jul 14 1709	Cajun Dart	-	27	0.000	MSFC	SF	U	MSFC/	Aeron	WDCRF	Morrow	-
1965-W101	2438963.21	1965 Jul 21 1700	Cajun Dart	-	28	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W102	2438965.21	1965 Jul 23 1700	Cajun Dart	-	29	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W103	2438970.08	1965 Jul 28 1400	Cajun Dart	-	30	0.000	MSFC	SS	-	MSFC/	Aeron	WDCRF	Morrow	-
1965-W117	2438986.22	1965 Aug 13 1722:00	Cajun Dart	-	31	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W119	2438991.21	1965 Aug 18 1700:00	Cajun Dart	-	32	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W120	2438998.21	1965 Aug 25 1700:00	Cajun Dart	-	33	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W128	2439005.21	1965 Sep 01 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W131	2439012.50	1965 Sep 09	Cajun Dart	-	34	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W134	2439021.21	1965 Sep 17 1700:00	Cajun Dart	-	35	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W135	2439026.21	1965 Sep 22 1700:00	Cajun Dart	-	36	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W137	2439033.17	1965 Sep 29 1600:00	Cajun Dart	-	37	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W147	2439040.22	1965 Oct 06 1718:00	Cajun Dart	-	38	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W148	2439046.50	1965 Oct 13	Cajun Dart	-	39	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W150	2439054.21	1965 Oct 20 1700:00	Cajun Dart	-	40	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W152	2439060.50	1965 Oct 27	Cajun Dart	-	41	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W161	2439066.21	1965 Nov 01 1700:00	Cajun Dart	-	42	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W162	2439072.50	1965 Nov 08	Cajun Dart	-	43	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W164	2439082.21	1965 Nov 17 1700:00	Cajun Dart	-	44	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W173	2439089.21	1965 Nov 24 1700:00	Cajun Dart	-	45	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W174	2439094.21	1965 Nov 29 1700:00	Cajun Dart	-	46	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W198	2439103.21	1965 Dec 08 1700:00	Cajun Dart	-	47	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W203	2439112.21	1965 Dec 17 1700:00	Cajun Dart	-	48	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1965-W205	2439117.19	1965 Dec 22 1640:00	Cajun Dart	-	49	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W09	2439131.17	1966 Jan 5 1600	Cajun Dart	-	50	0.000	MSFC	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W13	2439137.50	1966 Jan 12	Cajun Dart	-	51	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W20	2439144.50	1966 Jan 19	Cajun Dart	-	52	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W29	2439153.21	1966 Jan 27 1705:00	Cajun Dart	-	53	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-M143	2439167.50	1966 Feb 11	Cajun Dart	-	-	0.000	MSFC?	SF	U	MSFC/	Aeron	TM-X-64758	-	-
1966-W152	2439175.50	1966 Feb 19	Cajun Dart	-	54	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W165	2439178.96	1966 Feb 22 1100:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W188	2439182.27	1966 Feb 25 1830:00	Cajun Dart	-	55	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W195	2439183.26	1966 Feb 26 1812:00	Cajun Dart	-	56	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-Y08	2439230.50	1966 Apr 15	Cajun Dart	-	-	0.000	NOL	SS	-	NOL/	Aeron	CR-61175	-	-
1966-Y11	2439250.50	1966 May 5	Cajun Dart	-	-	0.000	NOL	SS	-	NOL/	Aeron	SP-219	CR-61175	-
1966-Y25	2439292.50	1966 Jun 16	Cajun Dart	-	-	0.000	NOL	SS	-	NOL/	Aeron	CR-61175	-	-
1966-Y27	2439304.50	1966 Jun 28	Cajun Dart	-	-	0.000	NOL	SS	-	NOL/	Aeron	CR-61175	-	-
1966-W288	2439310.50	1966 Jul 04	Cajun Dart	-	57	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-M144	2439312.20	1966 Jul 5 1645	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1966-W289	2439312.50	1966 Jul 06	Cajun Dart	-	58	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W308	2439362.19	1966 Aug 24 1630:00	Cajun Dart	-	59	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1966-W309	2439363.30	1966 Aug 25 1908:00	Cajun Dart	-	60	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1967-W34	2439514.84	1967 Jan 24 0806:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1967-W59	2439559.50	1967 Mar 10	Cajun Dart	-	-	0.000	MSFC	SS	-	MSFC/	Aeron	SP-219	-	-
1967-M145	2439607.50	1967 Apr 27	Cajun	?	-	0.000	WSMR	MS	-	USA/	Radar targets	CDBMD	-	-
1967-W214	2439803.04	1967 Nov 08 1300:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-W215	2439804.10	1967 Nov 09 1430:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1968-W30	2439878.58	1968 Jan 23 0200:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1968-W83	2439951.29	1968 Apr 04 1851:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1968-A125	2440037.50	1968 Jul?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A126	2440129.50	1968 Oct?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A127	2440129.50	1968 Oct?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A128	2440160.50	1968 Nov?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A129	2440160.50	1968 Nov?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A130	2440160.50	1968 Nov?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A131	2440160.50	1968 Nov?	Cajun	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-W228	2440141.33	1968 Oct 11 2001:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1968-W245	2440181.32	1968 Nov 20 1941:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W420	2440665.21	1970 Mar 19 1707:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W425	2440666.21	1970 Mar 20 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W431	2440669.17	1970 Mar 23 1600:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W444	2440671.17	1970 Mar 25 1600:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-M31	2440671.50	1970 Mar 26	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-W457	2440673.21	1970 Mar 27 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-M32	2440675.50	1970 Mar 30	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-W466	2440677.21	1970 Mar 31 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-M33	2440677.50	1970 Apr 1	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-M34	2440678.50	1970 Apr 2	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-M35	2440679.50	1970 Apr 3	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-W493	2440683.21	1970 Apr 06 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W499	2440684.14	1970 Apr 07 1525:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W504	2440685.21	1970 Apr 08 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W512	2440686.21	1970 Apr 09 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-M36	2440689.50	1970 Apr 13	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-M37	2440690.50	1970 Apr 14	Cajun Dart	-	-	0.000	MSFC?	SS	-	MSFC/	Aeron	TM-X-64758	-	-
1970-W544	2440692.21	1970 Apr 15 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W554	2440693.21	1970 Apr 16 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W560	2440694.21	1970 Apr 17 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-
1970-W570	2440697.21	1970 Apr 20 1700:00	Cajun Dart	-	-	0.000	MSFC?	SU	-	MSFC/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2002-051	2452599.44	2002 Nov 20 2239:00	Delta 4M+(4,2)	-	D4-1/D293	Eutelsat W5	Eutelsat W5	-	-	CC	SLC37B	-	-	35977	-	-
2003-008	2452709.54	2003 Mar 11 0059:00	Delta 4M	-	D4-2/D296/IABS-10	USA 167 (DSCS 3A-3)	DSCS III A-3/IABS	-	-	CC	SLC37B	-	-	35870	-	-
2003-040	2452881.47	2003 Aug 29 2313:00	Delta 4M	-	D4-3/D301/IABS-7	USA 170 (DSCS 3B-6)	DSCS III B-6/IABS	-	-	CC	SLC37B	-	-	36726	-	-
2004-050	2453361.41	2004 Dec 21 2150:00	Delta 4H	-	D4-4/D310	Demosat	HLV-OLDSP	-	-	CC	SLC37B	-	-	36924	-	-
2006-018	2453880.42	2006 May 24 2211:00	Delta 4M+(4,2)	-	D4-5/D315	GOES N	GOES N	-	-	CC	SLC37B	-	-	35918	-	-
2006-027	2453914.65	2006 Jun 28 0333:00	Delta 4M+(4,2)	-	D4-6/D317	USA 184 [JS11]	Adv TRUMPET 1	NROL-22	-	VS	SLC6	-	-	39344	-	-
2006-050	2454044.08	2006 Nov 4 1353	Delta 4M	-	D4-7/D320	USA 191 (DMSP 17)	DMSP Block 5D-3 S-17	-	-	VS	SLC6	-	-	862	-	-
2007-054	2454415.58	2007 Nov 11 0150	Delta 4H	-	D4-8/D329	USA 197 (DSP 23)	DSP F23	-	-	CC	SLC37B	-	-	38231	-	-
2009-001	2454849.62	2009 Jan 18 0247:00	Delta 4H	-	D4-9/D337	USA 202 [RH10]	ORION 6	NROL-26	-	CC	SLC37B	-	-	38200	-	-
2009-033	2455010.45	2009 Jun 27 2251:00	Delta 4M+(4,2)	-	D4-10/D342	GOES O	GOES O	-	-	CC	SLC37B	-	-	35943	-	-
2009-068	2455171.57	2009 Dec 6 0147:00	Delta 4M+(5,4)	-	D4-11/D346	WGS 3	Wideband Global Satcom 3	-	-	CC	SLC37B	-	-	62374	-	-
2010-008	2455260.50	2010 Mar 4 2357:00	Delta 4M+(4,2)	-	D4-12/D348	GOES P	GOES P	-	-	CC	SLC37B	-	-	43343	-	-
2010-022	2455344.62	2010 May 28 0300:00	Delta 4M+(4,2)	-	D4-13/D349	GPS IIF SV-1	GPS SVN 62	-	-	CC	SLC37B	-	-	21747	-	-
2010-063	2455522.46	2010 Nov 21 2258:00	Delta 4H	-	D4-14/D351	USA 223 [RH11]	ORION 7	NROL-32	-	CC	SLC37B	-	-	36015	-	-
2011-002	2455582.38	2011 Jan 20 2110:30	Delta 4H	-	D4-15/D352	USA 224 [IC]	Improved CRYSTAL 2109?	NROL-49	-	VS	SLC6	-	-	1055	-	-
2011-011	2455632.48	2011 Mar 11 2338	Delta 4M+(4,2)	-	D4-16/D353	USA 227 [SDS17]	QUASAR 17?	NROL-27	-	CC	SLC37B	-	-	37543	-	-
2011-036	2455758.78	2011 Jul 16 0641	Delta 4M+(4,2)	-	D4-17/D355	GPS IIF SV-2	GPS SVN 63	-	-	CC	SLC37B	-	-	22171	-	-
2012-003	2455946.53	2012 Jan 20 0038:00	Delta 4M+(5,4)	-	D4-18/D358	WGS 4	Wideband Global Satcom 4	-	-	CC	SLC37B	-	-	66739	-	-
2012-014	2456021.47	2012 Apr 3 2312:57	Delta 4M+(5,2)	-	D4-19/D359	USA 234	TOPAZ 2?	NROL-25 ELECTRA	-	VS	SLC6	-	-	1110	-	-
2012-034	2456108.05	2012 Jun 29 1315:00	Delta 4H	A	D4-20/D360	USA 237 [RH12]	ORION 8	NROL-15	-	CC	SLC37B	-	-	36100	-	-
2012-053	2456205.01	2012 Oct 4 1210:00	Delta 4M+(4,2)	-	D4-21/D361	GPS IIF SV-3	GPS SVN 65	-	-	CC	SLC37B	-	-	22016	-	-
2013-024	2456437.52	2013 May 25 0027	Delta 4M+(5,4)	-	D4-22/D362	WGS 5	Wideband Global Satcom 5	-	-	CC	SLC37B	-	-	66751	-	-
2013-041	2456512.52	2013 Aug 8 0029	Delta 4M+(5,4)	-	D4-23/D363	WGS 6	Wideband Global Satcom 6	-	-	CC	SLC37B	-	-	65668	-	-
2013-043	2456533.25	2013 Aug 28 1803:00	Delta 4H	-	D4-24/D364	USA 245 [IC]	EIS CRYSTAL	NROL-65	-	VS	SLC6	-	-	1069	-	-
2014-008	2456709.58	2014 Feb 21 0159	Delta 4M+(4,2)	-	D4-25/D365	GPS IIF SV-4	GPS SVN 64	-	-	CC	SLC37B	-	-	21730	-	-
2014-026	2456794.50	2014 May 17 0003:00	Delta 4M+(4,2)	-	D4-26/D366	GPS IIF-6	GPS SVN 67	-	-	CC	SLC37B	-	-	20826	-	-
2014-043	2456867.48	2014 Jul 28 2328:00	Delta 4M+(4,2)	-	D4-27/D368	AFSPC-4	GSSAP-1/2/ANGELS	AFSPC-4	-	CC	SLC37B	-	-	36841	-	-
2014-077	2456997.00	2014 Dec 5 1205:00	Delta 4H	-	D4-28/D369	Orion EFT-1	Orion EFT-1	-	-	CC	SLC37B	-	-	5794	-	-
2015-013	2457107.27	2015 Mar 25 1836	Delta 4M+(4,2)	-	D4-29/D371	GPS IIF-7	GPS SVN 71	-	-	CC	SLC37B	-	-	20959	-	-
2015-036	2457227.50	2015 Jul 24 0007	Delta 4M+(5,4)	A	D4-30/D372	WGS 7	Wideband Global Satcom 7	-	-	CC	SLC37B	-	-	66801	-	-
2016-010	2457428.99	2016 Feb 10 1140:32	Delta 4M+(5,2)	A	D4-31/D373	USA 267	TOPAZ 4	NROL-45	-	VS	SLC6	-	-	1111	-	-
2016-036	2457551.24	2016 Jun 11 1751	Delta 4H	A	D4-32/D374	USA 268	ORION 9	NROL-37	-	CC	SLC37B	-	-	36096	-	-
2016-052	2457619.70	2016 Aug 19 0452	Delta 4M+(4,2)	A	D4-33/D375	AFSPC-6	GSSAP 3/4	AFSPC-6	-	CC	SLC37B	-	-	39620	-	-
2016-075	2457730.50	2016 Dec 7 2353	Delta 4M+(5,4)	A	D4-34/D376	WGS 8	Wideband Global Satcom 8	-	-	CC	SLC37B	-	-	46142	-	-
2017-016	2457831.51	2017 Mar 19 0018:00	Delta 4M+(5,4)	A	D4-35/D377	WGS 9	Wideband Global Satcom 9	-	-	CC	SLC37B	-	-	46183	-	-
2018-005	2458131.42	2018 Jan 12 2211	Delta 4M+(5,2)	A	D4-36/D379	USA 281	TOPAZ 5?	NROL-47 PERSEUS	-	VS	SLC6	-	-	1085	-	-
2018-065	2458342.81	2018 Aug 12 0731	Delta 4H/Star 48BV	-	D4-37/D380	Parker Solar Probe	Solar Probe Plus	-	-	CC	SLC37B	-	-	150000	-	-
2019-004	2458503.30	2019 Jan 19 1910:00	Delta 4H	A	D4-38/D382	USA 290	Improved CRYSTAL?	NROL-71	-	VS	SLC6	-	-	438	-	-
2019-014	2458558.52	2019 Mar 16 0026:00	Delta 4M+(5,4)	A	D4-39/D383	WGS 10	WGS 10	-	-	CC	SLC37B	-	-	45382	-	-
2019-056	2458718.05	2019 Aug 22 1306:00	Delta 4M+(4,2)	A	D4-40/D384	GPS III SV02	GPS III SV02	-	-	CC	SLC37B	-	-	20258	-	-
2020-095	2459194.55	2020 Dec 11 0109	Delta 4H	A	D4-41/D385	USA 311	ORION 10?	NROL-44	-	CC	SLC37B	-	-	38470	-	-
2021-032	2459331.37	2021 Apr 26 2047:00	Delta 4H	A	D4-42/D386	USA 314	Improved CRYSTAL?	NROL-82	-	VS	SLC6	-	-	787	-	-
2022-117	2459847.43	2022 Sep 24 2225:30	Delta 4H	B	D4-43/D387	USA 338	Improved CRYSTAL?	NROL-91	-	VS	SLC6	-	-	-	-	-
2023-089	2460117.89	2023 Jun 22 0918:00	Delta 4H	B	D4-44/D388	USA 345	ORION 11?	NROL-68	-	CC	SLC37B	-	-	-	-	-
2024-067	2460410.20	2024 Apr 9 1653	Delta 4H	B	D4-45/D389	USA 353	ORION 12?	NROL-70	-	CC	SLC37B	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2002-051	2452599.44	2002 Nov 20 2239:00	Delta 4M+(4,2)	-	D4-1/D293	3.170	BLS	OS	-	C	Sat GTO O	Wire	-	-
2003-008	2452709.54	2003 Mar 11 0059:00	Delta 4M	-	D4-2/D296/IABS-10	1.244	BLS	OS	-	CG/G	Sat GTO O	Wire	-	-
2003-040	2452881.47	2003 Aug 29 2313:00	Delta 4M	-	D4-3/D301/IABS-7	1.244	BLS	OS	-	CG/G	Sat GTO O	Wire	-	-
2004-050	2453361.41	2004 Dec 21 2150:00	Delta 4H	-	D4-4/D310	6.025	BLS	OF45	S1P	CG/G	Sat GEO O	Wire	-	CBC early cutoff
2006-018	2453880.42	2006 May 24 2211:00	Delta 4M+(4,2)	-	D4-5/D315	3.209	BLS	OS	-	CG/G	Sat GTO O	Wire	-	-
2006-027	2453914.65	2006 Jun 28 0333:00	Delta 4M+(4,2)	-	D4-6/D317	4.000	BLS	OS	-	CG/G	Sat MOL O	Wire	-	-
2006-050	2454044.08	2006 Nov 4 1353	Delta 4M	-	D4-7/D320	1.223	BLS	OS	-	CG/G	Sat SSO D	Wire	-	-
2007-054	2454415.58	2007 Nov 11 0150	Delta 4H	-	D4-8/D329	2.349	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2009-001	2454849.62	2009 Jan 18 0247:00	Delta 4H	-	D4-9/D337	5.000	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2009-033	2455010.45	2009 Jun 27 2251:00	Delta 4M+(4,2)	-	D4-10/D342	3.209	ULAB	OS	-	CG/G	Sat GTO O	Wire	-	-
2009-068	2455171.57	2009 Dec 6 0147:00	Delta 4M+(5,4)	-	D4-11/D346	5.768	ULAB	OS	-	CG/G	Sat STO O	Wire	-	-
2010-008	2455260.50	2010 Mar 4 2357:00	Delta 4M+(4,2)	-	D4-12/D348	3.215	ULAB	OS	-	CG/G	Sat GTO O	Wire	-	-
2010-022	2455344.62	2010 May 28 0300:00	Delta 4M+(4,2)	-	D4-13/D349	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2010-063	2455522.46	2010 Nov 21 2258:00	Delta 4H	-	D4-14/D351	5.000	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2011-002	2455582.38	2011 Jan 20 2110:30	Delta 4H	-	D4-15/D352	14.000	ULAB	OS	-	CG/G	Sat SSO D	Wire	-	-
2011-011	2455632.48	2011 Mar 11 2338	Delta 4M+(4,2)	-	D4-16/D353	3.000	ULAB	OS	-	CG/G	Sat GTO O	Wire	-	-
2011-036	2455758.78	2011 Jul 16 0641	Delta 4M+(4,2)	-	D4-17/D355	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2012-003	2455946.53	2012 Jan 20 0038:00	Delta 4M+(5,4)	-	D4-18/D358	5.768	ULAB	OS	-	CG/G	Sat STO O	Wire	-	-
2012-014	2456021.47	2012 Apr 3 2312:57	Delta 4M+(5,2)	-	D4-19/D359	7.000	ULAB	OS	-	CG/G	Sat LEO D	Wire	-	-
2012-034	2456108.05	2012 Jun 29 1315:00	Delta 4H	A	D4-20/D360	6.500	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2012-053	2456205.01	2012 Oct 4 1210:00	Delta 4M+(4,2)	-	D4-21/D361	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2013-024	2456437.52	2013 May 25 0027	Delta 4M+(5,4)	-	D4-22/D362	5.768	ULAB	OS	-	CG/G	Sat STO O	Wire	-	-
2013-041	2456512.52	2013 Aug 8 0029	Delta 4M+(5,4)	-	D4-23/D363	5.768	ULAB	OS	-	CG/G	Sat STO O	Wire	-	-
2013-043	2456533.25	2013 Aug 28 1803:00	Delta 4H	-	D4-24/D364	14.000	ULAB	OS	-	CG/G	Sat SSO D	Wire	-	A?
2014-008	2456709.58	2014 Feb 21 0159	Delta 4M+(4,2)	-	D4-25/D365	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2014-026	2456794.50	2014 May 17 0003:00	Delta 4M+(4,2)	-	D4-26/D366	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2014-043	2456867.48	2014 Jul 28 2328:00	Delta 4M+(4,2)	-	D4-27/D368	1.230	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2014-077	2456997.00	2014 Dec 5 1205:00	Delta 4H	-	D4-28/D369	12.560	ULAB	OS	-	CG/G	Sat LEO D	Wire	-	-
2015-013	2457107.27	2015 Mar 25 1836	Delta 4M+(4,2)	-	D4-29/D371	1.630	ULAB	OS	-	CG/G	Sat MEO O	Wire	-	-
2015-036	2457227.50	2015 Jul 24 0007	Delta 4M+(5,4)	A	D4-30/D372	5.900	ULAB	OS	-	CG/G	Sat STO O	Wire	-	-
2016-010	2457428.99	2016 Feb 10 1140:32	Delta 4M+(5,2)	A	D4-31/D373	7.000	ULAB	OS	-	CG/G	Sat LEO D	Wire	-	-
2016-036	2457551.24	2016 Jun 11 1751	Delta 4H	A	D4-32/D374	6.500	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2016-052	2457619.70	2016 Aug 19 0452	Delta 4M+(4,2)	A	D4-33/D375	1.160	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2016-075	2457730.50	2016 Dec 7 2353	Delta 4M+(5,4)	A	D4-34/D376	5.987	ULAB	OS	-	CG/G	Sat GTO D	Wire	-	-
2017-016	2457831.51	2017 Mar 19 0018:00	Delta 4M+(5,4)	A	D4-35/D377	6.000	ULAB	OS	-	CG/G	Sat GTO D	Wire	-	-
2018-005	2458131.42	2018 Jan 12 2211	Delta 4M+(5,2)	A	D4-36/D379	7.000	ULAB	OS	-	CG/G	Sat LEO D	Wire	-	-
2018-065	2458342.81	2018 Aug 12 0731	Delta 4H/Star 48BV	-	D4-37/D380	0.685	ULAB	DS	-	CG/G	Sat EEO EE	Wire	-	-
2019-004	2458503.30	2019 Jan 19 1910:00	Delta 4H	A	D4-38/D382	20.000	ULAB	OS	-	CG/G	Sat LEO D	Wire	-	-
2019-014	2458558.52	2019 Mar 16 0026:00	Delta 4M+(5,4)	A	D4-39/D383	6.000	ULAB	OS	-	CG/G	Sat GTO D	Wire	-	-
2019-056	2458718.05	2019 Aug 22 1306:00	Delta 4M+(4,2)	A	D4-40/D384	4.400	ULAB	OS	-	CG/G	Sat MTO D	Wire	-	-
2020-095	2459194.55	2020 Dec 11 0109	Delta 4H	A	D4-41/D385	5.000	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2021-032	2459331.37	2021 Apr 26 2047:00	Delta 4H	A	D4-42/D386	20.000	ULAB	OS	-	CG/G	Sat SSO D	Wire	-	-
2022-117	2459847.43	2022 Sep 24 2225:30	Delta 4H	B	D4-43/D387	20.000	ULAB	OS	-	CG/G	Sat SSO D	Wire	-	-
2023-089	2460117.89	2023 Jun 22 0918:00	Delta 4H	B	D4-44/D388	5.000	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-
2024-067	2460410.20	2024 Apr 9 1653	Delta 4H	B	D4-45/D389	5.000	ULAB	OS	-	CG/G	Sat GEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A199	2438394.50	1964	HAEC	-	1	Test	-	-	-	WOO	-	-	-	45?	-	-
1964-A200	2438394.50	1964?	HAEC	-	2	Test	-	-	-	WOO	-	-	-	45?	-	-
1965-A219	2438760.50	1965?	HAEC	-	3	Test	-	-	-	WOO	-	-	-	45?	-	-
1965-A220	2438760.50	1965?	HAEC	-	4	Test	-	-	-	WOO	-	-	-	45?	-	-
1966-A584	2439125.50	1966?	HAEC	-	5	Test	-	-	-	WOO	-	-	-	45?	-	-
1966-A585	2439125.50	1966	HAEC	-	6	Test	-	-	-	WOO	-	-	-	45?	-	-
1973-S322	2441955.50	1973 Q4	Lorikeet	-	-	-	-	-	-	WOO	LA2	-	-	100?	-	-
1974-S01	2442125.62	1974 Mar 19 0300	Lorikeet	-	1002	-	-	-	-	WOO	LA2	-	-	100?	-	-
1974-S02	2442047.50	1974?	Lorikeet Mk 2	-	-	-	-	-	-	WOO	LA2	-	-	140?	-	-
1976-S419	2442832.48	1976 Feb 23 2330	Lorikeet Mk 2	-	2011	-	-	-	-	WOO	LA2	-	-	118?	-	-
1976-S111	2442832.60	1976 Feb 24 0230	Lorikeet Mk 2	-	2013	-	-	-	-	WOO	LA2	-	-	107	-	-
1976-S362	2442959.57	1976 Jun 30 0136	Lorikeet Mk 2	-	2012	-	-	-	-	WOO	-	-	-	105	-	-
1976-S420	2442959.52	1976 Jun 30 0030	Lorikeet Mk 2	-	2015	-	-	-	-	WOO	LA2	-	-	150	-	-
1976-S363	2443000.50	1976 Aug 10	Lorikeet	-	1002	Mass Spec	-	-	-	WOO	-	-	-	140?	-	-
1976-S364	2443001.50	1976 Aug 11	Lorikeet	-	1003	Mass Spec	-	-	-	WOO	-	-	-	140?	-	-
1976-S416	2443031.36	1976 Sep 9 2034	Lorikeet Mk 2	-	2005	-	-	-	-	WOO	-	-	-	140	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A199	2438394.50	1964	HAEC	-	1	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1964-A200	2438394.50	1964?	HAEC	-	2	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1965-A219	2438760.50	1965?	HAEC	-	3	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1965-A220	2438760.50	1965?	HAEC	-	4	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1966-A584	2439125.50	1966?	HAEC	-	5	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1966-A585	2439125.50	1966	HAEC	-	6	0.000	WRE	AS	-	WRE/	Test	JBIS25,61	-	-
1973-S322	2441955.50	1973 Q4	Lorikeet	-	-	0.000	WRE	SS	-	WRE/	Aeron?	FDC	Morton	-
1974-S01	2442125.62	1974 Mar 19 0300	Lorikeet	-	1002	0.000	WRE	SS	-	WRE/	Aeron?	FDC/Ulrich	Morton	-
1974-S02	2442047.50	1974?	Lorikeet Mk 2	-	-	0.000	WRE	SS	-	WRE/	Aeron?	Morton	-	-
1976-S419	2442832.48	1976 Feb 23 2330	Lorikeet Mk 2	-	2011	0.000	WRE	SS	-	WRE/	Aeron?	ADA051077	-	-
1976-S111	2442832.60	1976 Feb 24 0230	Lorikeet Mk 2	-	2013	0.000	WRE	SS	-	WRE/	Aeron?	users.senet.com.au	ADA051077	-
1976-S362	2442959.57	1976 Jun 30 0136	Lorikeet Mk 2	-	2012	0.000	WRE	SS	-	WRE/Lloyd	Ionos	WRE-TR1816	-	-
1976-S420	2442959.52	1976 Jun 30 0030	Lorikeet Mk 2	-	2015	0.000	WRE	SS	-	WRE/	Aeron?	ADA051077	-	-
1976-S363	2443000.50	1976 Aug 10	Lorikeet	-	1002	0.000	WRE	SF	U	ADEL/Bibbo	Aeron	Bibbo10	-	-
1976-S364	2443001.50	1976 Aug 11	Lorikeet	-	1003	0.000	WRE	SF	U	ADEL/Bibbo	Aeron	Bibbo10	-	-
1976-S416	2443031.36	1976 Sep 9 2034	Lorikeet Mk 2	-	2005	0.000	WRE	SF	U	ADEL/Bibbo?	Aeron	FDC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-S09	2459230.50	2021 Jan 16	Dezful	-	-	-	-	-	-	GARM	-	-	-	200?	800?	Indian O.
2023-S27	2460089.50	2023 May 25?	Kheibar Shekan	?	-	Khorramshar-4	Kheibar	-	-	SEM?	-	-	-	300?	2000	-
2024-S17	2460414.46	2024 Apr 13 2300?	Kheibar Shekan	?	-	-	-	-	-	IRAN	-	-	-	300?	2000	Israel
2024-S18	2460414.46	2024 Apr 13 2300?	Kheibar Shekan	?	(many)	-	-	-	-	IRAN	-	-	-	300?	2000	Israel
2024-S19	2460414.46	2024 Apr 13 2300?	Dezful	?	-	-	-	-	-	YEMEN	-	-	-	200?	1000?	Israel
2024-S20	2460414.46	2024 Apr 13 2300?	Dezful	?	-	-	-	-	-	IRAN	-	-	-	200?	1000?	Israel
2024-S56	2460585.19	2024 Oct 1 1630?	Fattah-1	-	(many)	-	-	-	-	SHIRS	-	-	-	200?	1000?	Israel
2024-S57	2460585.19	2024 Oct 1 1630?	Kheibar Shekan	-	(many)	-	-	-	-	SHIRS	-	-	-	200?	1000?	Israel
2024-S54	2460568.65	2024 Sep 15 0330	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2024-S72	2460622.50	2024 Nov 8	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2024-S73	2460625.50	2024 Nov 11	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2025-S19	2460797.50	2025 May 2	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2025-S20	2460798.50	2025 May 3	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2025-S21	2460799.50	2025 May 4	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel BGA
2025-S25	2460827.50	2025 Jun 1	Kheibar Shekan	?	-	Palestine-2	-	-	-	SANAA?	-	-	-	300?	2000?	Israel

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-S09	2459230.50	2021 Jan 16	Dezful	-	-	0.000	IR	MS	-	-	Test	twitter/inbarspace	-	-
2023-S27	2460089.50	2023 May 25?	Kheibar Shekan	?	-	0.000	IR	MS	-	-	Test	Wire	-	-
2024-S17	2460414.46	2024 Apr 13 2300?	Kheibar Shekan	?	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S18	2460414.46	2024 Apr 13 2300?	Kheibar Shekan	?	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S19	2460414.46	2024 Apr 13 2300?	Dezful	?	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S20	2460414.46	2024 Apr 13 2300?	Dezful	?	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S56	2460585.19	2024 Oct 1 1630?	Fattah-1	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S57	2460585.19	2024 Oct 1 1630?	Kheibar Shekan	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S54	2460568.65	2024 Sep 15 0330	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2024-S72	2460622.50	2024 Nov 8	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2024-S73	2460625.50	2024 Nov 11	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2025-S19	2460797.50	2025 May 2	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2025-S20	2460798.50	2025 May 3	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2025-S21	2460799.50	2025 May 4	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2025-S25	2460827.50	2025 Jun 1	Kheibar Shekan	?	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-A28	2445915.50	1984 Aug 3	Dolphin	-	-	-	-	-	-	WTR	SCL LP3	-	-	0?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-A28	2445915.50	1984 Aug 3	Dolphin	-	-	0.000	STST	SF	U	STST/Ordahl	Test	AWST840813-20	AWST840625-166	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-A03	2457149.04	2015 May 6 1300:00	Dragon V2	-	1	Pad Abort	-	-	-	CC	SLC40	-	-	1	1	CC

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-A03	2457149.04	2015 May 6 1300:00	Dragon V2	-	1	0.000	SPX	AS	-	SPX/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S81	2460649.75	2024 Dec 5 0605	Weka	-	1	Duqm-1	-	-	-	ETLAQ	LC3	-	-	140?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S81	2460649.75	2024 Dec 5 0605	Weka	-	1	0.000	NASCOM/SNOW	SS	-	NASCOM/	Test	TimesOfOman	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-U01	2440850.82	1970 Sep 21 0743	E-8-5 VA	-	No. 406	Luna-16	VA	-	-	FEC	KT-406	-	-	-	-	-
1972-U01	2441370.46	1972 Feb 22 2258	E-8-5 VA	-	No. 408	Luna-20	VA	-	-	APC	KT-408	-	-	-	-	-
1976-U01	2443009.73	1976 Aug 19 0525	E-8-5 VA	-	No. 413	Luna-24	VA	-	-	CRI24	KT-413	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-U01	2440850.82	1970 Sep 21 0743	E-8-5 VA	-	No. 406	0.000	NPOL	XS	-	G	Sat XO	JCM	-	-
1972-U01	2441370.46	1972 Feb 22 2258	E-8-5 VA	-	No. 408	0.000	NPOL	XS	-	G	Sat XO	JCM	-	-
1976-U01	2443009.73	1976 Aug 19 0525	E-8-5 VA	-	No. 413	0.000	NPOL	XS	-	G	Sat XO	JCM	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-F02	2457898.68	2017 May 25 0420:00	Electron	-	1	It's A Test	-	-	-	MAHIA	LC1A	-	-	224	-	-
2018-010	2458139.57	2018 Jan 21 0143	Electron	-	2	Still Testing	Electron 02 Rideshare	Dove/Lemurs	-	MAHIA	LC1A	-	-	536	-	-
2018-088	2458433.66	2018 Nov 11 0350	Electron	-	3	It's Business Time	Electron 03 Rideshare	CICERO 10/Lemurs	-	MAHIA	LC1A	-	-	520	-	-
2018-104	2458468.77	2018 Dec 16 0633	Electron	-	4	This One's For Pickering	Electron 04 Rideshare	Elana XIX	-	MAHIA	LC1A	-	-	520	-	-
2019-016	2458571.48	2019 Mar 28 2327	Electron	-	5	Two Thumbs Up	R3D2	-	-	MAHIA	LC1A	-	-	441	-	-
2019-026	2458608.75	2019 May 5 0600	Electron	-	6	T.A.Funny Looking Cactus	STP 27RD	Harbinger	-	MAHIA	LC1A	-	-	515	-	-
2019-037	2458663.69	2019 Jun 29 0430	Electron	-	7	Make It Rain	BlackSky Global 3	-	-	MAHIA	LC1A	-	-	465	-	-
2019-054	2458715.01	2019 Aug 19 1212	Electron	-	8	Look Ma No Hands	BlackSky Global 4	-	-	MAHIA	LC1A	-	-	558	-	-
2019-069	2458773.56	2019 Oct 17 0122	Electron	-	9	As The Crow Flies	Palisade	-	-	MAHIA	LC1A	-	-	1224	-	-
2019-084	2458823.85	2019 Dec 6 0818	Electron	-	10	Running out of Fingers	Electron 10 Rideshare	ALE-2	-	MAHIA	LC1A	-	-	416	-	-
2020-007	2458879.62	2020 Jan 31 0256	Electron	-	11	Birds of a Feather	NROL-151	NROL-151	-	MAHIA	LC1A	-	-	596	-	-
2020-037	2459013.72	2020 Jun 13 0512:12	Electron	-	12	Don't Stop Me Now	NRO/ANDESITE/M2PF	-	-	MAHIA	LC1A	-	-	604	-	-
2020-F05	2459035.39	2020 Jul 4 2119:36	Electron	-	13	Pics or It Didn't Happen	Electron 13 Rideshare	CESAT-1B/Flock 4e	-	MAHIA	LC1A	-	-	195	-	-
2020-060	2459092.63	2020 Aug 31 0305:47	Electron	-	14	I Can't Believe It's..	Sequoia	-	-	MAHIA	LC1A	-	-	546	-	-
2020-077	2459151.39	2020 Oct 28 2121:27	Electron	-	15	In Focus	Electron 15 Rideshare	CESAT-IIB/Flock 4ep	-	MAHIA	LC1A	-	-	529	-	-
2020-085	2459173.60	2020 Nov 20 0220:01	Electron	-	16	Return To Sender	Electron 16 Rideshare	Dragracer/BRO/SpaceBEE	-	MAHIA	LC1A	-	-	551	-	-
2020-098	2459198.92	2020 Dec 15 1009:27	Electron	-	17	The Owl's Night Begins	Strix-Alpha	-	-	MAHIA	LC1A	-	-	513	-	-
2021-004	2459234.81	2021 Jan 20 0726	Electron	-	18	Another One Leaves..	BIU GMS-T	-	-	MAHIA	LC1A	-	-	1218	-	-
2021-023	2459296.44	2021 Mar 22 2230	Electron	-	19	They Go Up So Fast	Global-5/Pathstone	-	-	MAHIA	LC1A	-	-	559	-	-
2021-F02	2459349.97	2021 May 15 1111:39	Electron	-	20	Running out of Toes	Global-8/Global-9	-	-	MAHIA	LC1A	-	-	136	-	-
2021-068	2459424.75	2021 Jul 29 0600	Electron	-	21	It's a Little Chile UpH.	Monolith	STP-27RM	-	MAHIA	LC1A	-	-	611	-	-
2021-106	2459536.57	2021 Nov 18 0138	Electron	-	22	Love at First Insight	Global-14/Global-15	-	-	MAHIA	LC1A	-	-	505	-	-
2021-120	2459557.50	2021 Dec 9 0002:07	Electron	-	23	Data With Destiny	Global-16/Global-17	-	-	MAHIA	LC1A	-	-	444	-	-
2022-020	2459639.36	2022 Feb 28 2037:25	Electron	-	24	The Owl'sNight Continues	Strix Beta	-	-	MAHIA	LC1B	-	-	613	-	-
2022-034	2459672.03	2022 Apr 2 1241:38	Electron	-	25	Without Mission a Beat	Global-18/Global-20	-	-	MAHIA	LC1A	-	-	459	-	-
2022-047	2459702.45	2022 May 2 2249:52	Electron	-	26	There and Back Again	E-Space Demo	-	-	MAHIA	LC1A	-	-	536	-	-
2022-070	2459758.91	2022 Jun 28 0955	Electron	L	27	CAPSTONE	CAPSTONE	-	-	MAHIA	LC1B	-	-	150000	-	-
2022-079	2459773.77	2022 Jul 13 0630	Electron	-	28	Wise One Looks Ahead	NROL-162	-	-	MAHIA	LC1A	-	-	595	-	-
2022-091	2459795.71	2022 Aug 4 0500	Electron	-	29	Antipodean Adventure	NROL-199	-	-	MAHIA	LC1B	-	-	643	-	-
2022-113	2459838.36	2022 Sep 15 2038	Electron	-	30	The Owl SpreadsIts Wings	Strix-1	-	-	MAHIA	LC1B	-	-	589	-	-
2022-127	2459860.21	2022 Oct 7 1709:21	Electron	-	31	It Argos From Up Here	GAzelle	-	-	MAHIA	LC1B	-	-	-	-	-
2022-147	2459888.23	2022 Nov 4 1727:14	Electron	-	32	Catch Me If You Can	MATS	-	-	MAHIA	LC1B	-	-	-	-	-
2023-011	2459969.46	2023 Jan 24 2300:00	Electron	-	33	VA is for Launch Lovers	Hawk 6	-	-	MARS	Pad 0C	-	-	-	-	-
2023-035	2460020.44	2023 Mar 16 2238:59	Electron	-	34	Stronger Together	Capella 9/10	-	-	MARS	Pad 0C	-	-	-	-	-
2023-041	2460027.89	2023 Mar 24 0914:56	Electron	-	35	The Beat Goes On	Global-19/Global-5	-	-	MAHIA	LC1B	-	-	-	-	-
2023-062	2460072.54	2023 May 8 0100	Electron	-	36	Rocket Like A Hurricane	Tropics SV05/SV06	-	-	MAHIA	LC1B	-	-	-	-	-
2023-073	2460090.66	2023 May 26 0346	Electron	-	37	Coming To A Storm Near Y	Tropics SV03/SV07	-	-	MAHIA	LC1B	-	-	-	-	-
2023-S29	2460113.56	2023 Jun 18 0124	HASTE	-	38	Scout's Arrow	DYNAMO-A	-	-	MARS	Pad 0C	-	-	300?	1300	-
2023-100	2460143.56	2023 Jul 18 0127	Electron	-	39	Baby Come Back	Electron 39 Rideshare	LEO-3/Starling/Lemur	-	MAHIA	LC1B	-	-	-	-	-
2023-126	2460180.49	2023 Aug 23 2345	Electron	-	40	We Love The Nightlife	Capella 11 Acadia-1	-	-	MAHIA	LC1B	-	-	-	-	-
2023-F08	2460206.79	2023 Sep 19 0655	Electron	-	41	We Will Never Desert You	Capella 12 Acadia-2	-	-	MAHIA	LC1B	-	-	100?	-	-
2023-196	2460293.67	2023 Dec 15 0405:54?	Electron	-	42	The Moon God Awakens	QPS-SAR-5	-	-	MAHIA	LC1B	-	-	-	-	-
2024-022	2460340.77	2024 Jan 31 0634	Electron	-	43	Four of a Kind	Lemur SSA 1-4	-	-	MAHIA	LC1B	-	-	-	-	-
2024-034	2460359.12	2024 Feb 18 1452	Electron	-	44	On Closer Inspection	ADRAS-J	-	-	MAHIA	LC1B	-	-	-	-	-
2024-047	2460382.13	2024 Mar 12 1503	Electron	-	45	Owl Night Long	Strix-3	-	-	MAHIA	LC1B	-	-	-	-	-
2024-053	2460390.81	2024 Mar 21 0725	Electron	-	46	Live and Let Fly	NROL-123	USA 350-352	-	MARS	Pad 0C	-	-	-	-	-
2024-077	2460424.44	2024 Apr 23 2232	Electron	-	47	Beginning of the Swarm	Neonsat-1	Neonsat-1	-	MAHIA	LC1B	-	-	-	-	-
2024-099	2460455.82	2024 May 25 0741	Electron	-	48	Ready, Aim, Prefire	PREFIRE-1	-	-	MAHIA	LC1B	-	-	-	-	-
2024-108	2460466.64	2024 Jun 5 0315	Electron	-	49	Prefire and Ice	PREFIRE-2	-	-	MAHIA	LC1B	-	-	-	-	-
2024-114	2460482.26	2024 Jun 20 1813	Electron	-	50	No Time Toulouse	Kineis 1A-1E	-	-	MAHIA	LC1B	-	-	-	-	-
2024-137	2460525.19	2024 Aug 2 1639	Electron	-	51	Owl for One, One for Owl	Strix-4	-	-	MAHIA	LC1B	-	-	-	-	-
2024-142	2460534.05	2024 Aug 11 1318	Electron	-	52	A Sky full of SARs	Capella 13 Acadia-3	-	-	MAHIA	LC1B	-	-	-	-	-
2024-172	2460574.46	2024 Sep 20 2301	Electron	-	53	Kineis Killed the RadIOT	Kineis 3A-3E	-	-	MAHIA	LC1A	-	-	-	-	-
2024-201	2460619.95	2024 Nov 5 1054	Electron	-	54	Changes in Latitudes,..	E-Space 4	-	-	MAHIA	LC1B	-	-	-	-	-
2024-S76	2460638.75	2024 Nov 24 0600	HASTE	-	55	HIPPO	MACH-TB-2	-	-	MARS	Pad 0C	-	-	300?	4800?	22W 34N?
2024-219	2460639.65	2024 Nov 25 0335	Electron	-	56	Ice AIS Baby	Kineis 5A-5E	-	-	MAHIA	LC1B	-	-	-	-	-
2024-S85	2460658.54	2024 Dec 14 0100	HASTE	-	57	STONEHENGE	MACH-TB-3	-	-	MARS	Pad 0C	-	-	300?	4800?	22W 34N?
2024-248	2460666.10	2024 Dec 21 1417	Electron	-	58	Owl the Way Up	Strix-2	-	-	MAHIA	LC1B	-	-	-	-	-
2025-028	2460715.36	2025 Feb 8 2043	Electron	-	59	IoT 4 U and Me	Kineis 2A-2E	-	-	MAHIA	LC1B	-	-	-	-	-
2025-033	2460725.47	2025 Feb 18 2317	Electron	-	60	Fasten Your Space Belts	BlackSky Gen3	-	-	MAHIA	LC1B	-	-	-	-	-
2025-050	2460749.50	2025 Mar 15 0000	Electron	-	61	The Lightning God Reigns	QPS-SAR-9	-	-	MAHIA	LC1B	-	-	-	-	-
2025-056	2460752.56	2025 Mar 18 0131	Electron	-	62	High Five	Kineis 4A-4E	-	-	MAHIA	LC1A	-	-	-	-	-
2025-061	2460761.15	2025 Mar 26 1530	Electron	-	63	Finding Hot Wildfires..	OTC Phase 1	-	-	MAHIA	LC1B	-	-	-	-	-
2025-104	2460812.85	2025 May 17 0817	Electron	-	64	The Sea God Sees	QPS-SAR-10	-	-	MAHIA	LC1A	-	-	-	-	-
2025-118	2460829.50	2025 Jun 2 2357	Electron	-	65	Full Stream Ahead	BlackSky Gen3-2	-	-	MAHIA	LC1B	-	-	-	-	-
2025-125	2460838.15	2025 Jun 11 1531	Electron	-	66	The Mountain God Guards	QPS-SAR-11	-	-	MAHIA	LC1A	-	-	-	-	-
2025-138	2460853.23	2025 Jun 26 1728	Electron	-	67	Get the Hawk Outta Here	Hawk 12/Kestrel 0A	-	-	MAHIA	LC1A	-	-	-	-	-
2025-140	2460854.80	2025 Jun 28 0708	Electron	-	68	Symphony in the Stars	Lyra 2?	-	-	MAHIA	LC1B	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-F02	2457898.68	2017 May 25 0420:00	Electron	-	1	0.020	RLABN	OF	AD	C	Sat LEO OO	twitter.com	-	Erroneous RSO
2018-010	2458139.57	2018 Jan 21 0143	Electron	-	2	0.022	RLABN	OS	-	C	Sat LEO OO	twitter.com	-	-
2018-088	2458433.66	2018 Nov 11 0350	Electron	-	3	0.125	RLABN	OS	-	C	Sat LEO OO	twitter.com	-	-
2018-104	2458468.77	2018 Dec 16 0633	Electron	-	4	0.052	RLABN	OS	-	C/G	Sat LEO OO	twitter.com	-	-
2019-016	2458571.48	2019 Mar 28 2327	Electron	-	5	0.160	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2019-026	2458608.75	2019 May 5 0600	Electron	-	6	0.161	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2019-037	2458663.69	2019 Jun 29 0430	Electron	-	7	0.066	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2019-054	2458715.01	2019 Aug 19 1212	Electron	-	8	0.085	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2019-069	2458773.56	2019 Oct 17 0122	Electron	-	9	0.040	RLABN	OS	-	C	Sat LEO OL	Wire	-	-
2019-084	2458823.85	2019 Dec 6 0818	Electron	-	10	0.080	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2020-007	2458879.62	2020 Jan 31 0256	Electron	-	11	0.150	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2020-037	2459013.72	2020 Jun 13 0512:12	Electron	-	12	0.213	RLABN	OS	-	C/G	Sat SSO OO	Wire	-	-
2020-F05	2459035.39	2020 Jul 4 2119:36	Electron	-	13	0.103	RLABN	OF	S2E	C	Sat SSO OO	Wire	-	Hotswap failed
2020-060	2459092.63	2020 Aug 31 0305:47	Electron	-	14	0.150	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2020-077	2459151.39	2020 Oct 28 2121:27	Electron	-	15	0.086	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2020-085	2459173.60	2020 Nov 20 0220:01	Electron	-	16	0.063	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2020-098	2459198.92	2020 Dec 15 1009:27	Electron	-	17	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2021-004	2459234.81	2021 Jan 20 0726	Electron	-	18	0.050	RLABN	OS	-	C	Sat LEO OL	Wire	-	-
2021-023	2459296.44	2021 Mar 22 2230	Electron	-	19	0.153	RLABN	OS	-	C	Sat LEO OL	Wire	-	-
2021-F02	2459349.97	2021 May 15 1111:39	Electron	-	20	0.110	RLABN	OF	S2I	C	Sat LEO OO	Wire	-	Igniter system problem
2021-068	2459424.75	2021 Jul 29 0600	Electron	-	21	0.020	RLABN	OS	-	C/G	Sat LEO OL	Wire	-	-
2021-106	2459536.57	2021 Nov 18 0138	Electron	-	22	0.130	RLABN	OS	-	C	Sat LEO OP 1	Wire	-	-
2021-120	2459557.50	2021 Dec 9 0002:07	Electron	-	23	0.130	RLABN	OS	-	C	Sat LEO OP 1	Wire	-	-
2022-020	2459639.36	2022 Feb 28 2037:25	Electron	-	24	0.150	RLABN	OS	-	C	Sat SSO OL	Wire	-	-
2022-034	2459672.03	2022 Apr 2 1241:38	Electron	-	25	0.130	RLABN	OS	-	C	Sat LEO OP 1	Wire	-	-
2022-047	2459702.45	2022 May 2 2249:52	Electron	-	26	0.064	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2022-070	2459758.91	2022 Jun 28 0955	Electron	L	27	0.325	RLABN	DS	-	C/G	Sat DSO OO	Wire	-	-
2022-079	2459773.77	2022 Jul 13 0630	Electron	-	28	0.100	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2022-091	2459795.71	2022 Aug 4 0500	Electron	-	29	0.100	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2022-113	2459838.36	2022 Sep 15 2038	Electron	-	30	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2022-127	2459860.21	2022 Oct 7 1709:21	Electron	-	31	0.118	RLABN	OS	-	C	Sat SSO OL	Wire	-	-
2022-147	2459888.23	2022 Nov 4 1727:14	Electron	-	32	0.054	RLABN	OS	-	C/OG	Sat SSO OL	Wire	-	-
2023-011	2459969.46	2023 Jan 24 2300:00	Electron	-	33	0.093	RLABU	OS	-	C	Sat LEO OL	Wire	-	-
2023-035	2460020.44	2023 Mar 16 2238:59	Electron	-	34	0.224	RLABU	OS	-	C	Sat LEO OO	Wire	-	-
2023-041	2460027.89	2023 Mar 24 0914:56	Electron	-	35	0.130	RLABN	OS	-	C	Sat LEO OL	Wire	-	-
2023-062	2460072.54	2023 May 8 0100	Electron	-	36	0.008	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2023-073	2460090.66	2023 May 26 0346	Electron	-	37	0.008	RLABN	OS	-	C/G	Sat LEO OO	Wire	-	-
2023-S29	2460113.56	2023 Jun 18 0124	HASTE	-	38	0.000	RLABU	SS	-	-	Hypersonic	youtube.com	-	-
2023-100	2460143.56	2023 Jul 18 0127	Electron	-	39	0.088	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2023-126	2460180.49	2023 Aug 23 2345	Electron	-	40	0.180	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2023-F08	2460206.79	2023 Sep 19 0655	Electron	-	41	0.180	RLABN	OF	S2E	C	Sat LEO OO	Wire	-	Stage 2 electrical arc
2023-196	2460293.67	2023 Dec 15 0405:54?	Electron	-	42	0.120	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2024-022	2460340.77	2024 Jan 31 0634	Electron	-	43	0.100	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2024-034	2460359.12	2024 Feb 18 1452	Electron	-	44	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-047	2460382.13	2024 Mar 12 1503	Electron	-	45	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-053	2460390.81	2024 Mar 21 0725	Electron	-	46	0.130	RLABU	OS	-	C/G	Sat LEO OO	Wire	-	-
2024-077	2460424.44	2024 Apr 23 2232	Electron	-	47	0.116	RLABN	OS	-	C/OG	Sat SSO OO	Wire	-	-
2024-099	2460455.82	2024 May 25 0741	Electron	-	48	0.010	RLABN	OS	-	C/G	Sat SSO OO	Wire	-	-
2024-108	2460466.64	2024 Jun 5 0315	Electron	-	49	0.010	RLABN	OS	-	C/G	Sat SSO OO	Wire	-	-
2024-114	2460482.26	2024 Jun 20 1813	Electron	-	50	0.140	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-137	2460525.19	2024 Aug 2 1639	Electron	-	51	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-142	2460534.05	2024 Aug 11 1318	Electron	-	52	0.180	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2024-172	2460574.46	2024 Sep 20 2301	Electron	-	53	0.140	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-201	2460619.95	2024 Nov 5 1054	Electron	-	54	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-S76	2460638.75	2024 Nov 24 0600	HASTE	-	55	0.000	RLABU	SS	-	-	Hypersonic	youtube.com	-	-
2024-219	2460639.65	2024 Nov 25 0335	Electron	-	56	0.140	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2024-S85	2460658.54	2024 Dec 14 0100	HASTE	-	57	0.000	RLABU	SS	-	-	Hypersonic	youtube.com	-	-
2024-248	2460666.10	2024 Dec 21 1417	Electron	-	58	0.150	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2025-028	2460715.36	2025 Feb 8 2043	Electron	-	59	0.140	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2025-033	2460725.47	2025 Feb 18 2317	Electron	-	60	0.138	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2025-050	2460749.50	2025 Mar 15 0000	Electron	-	61	0.120	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2025-056	2460752.56	2025 Mar 18 0131	Electron	-	62	0.140	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2025-061	2460761.15	2025 Mar 26 1530	Electron	-	63	0.100	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2025-104	2460812.85	2025 May 17 0817	Electron	-	64	0.120	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2025-118	2460829.50	2025 Jun 2 2357	Electron	-	65	0.138	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2025-125	2460838.15	2025 Jun 11 1531	Electron	-	66	0.120	RLABN	OS	-	C	Sat LEO OO	Wire	-	-
2025-138	2460853.23	2025 Jun 26 1728	Electron	-	67	0.105	RLABN	OS	-	C	Sat SSO OO	Wire	-	-
2025-140	2460854.80	2025 Jun 28 0708	Electron	-	68	0.120	RLABN	OS	-	C	Sat LEO OO	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A86	2438563.50	1964 Jun 17	Emeraude VE121	-	No. 4	-	-	-	-	HMG	Brigitte	-	-	0?	-	-
1964-A89	2438572.50	1964 Jun 26	Emeraude VE121	-	No. 5	-	-	-	-	HMG	Brigitte	-	-	0?	-	-
1964-A155	2438688.50	1964 Oct 20	Emeraude VE121	-	No. 6	-	-	-	-	HMG	Brigitte	-	-	0?	-	-
1965-S106	2438818.50	1965 Feb 27	Emeraude VE121	-	No. 7	-	-	-	-	HMG	Brigitte	-	-	200?	-	-
1965-S289	2438832.50	1965 Mar 13	Emeraude VE121	-	No. 8	Dummy Topaze	-	-	-	HMG	Brigitte	-	-	200?	-	-
1965-S418	2438946.50	1965 Jul 5	Saphir VE231	-	P1	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1965-M23	2438951.50	1965 Jul 10	Saphir VE231	-	P2	-	-	-	-	HMG	Brigitte	-	-	50?	-	-
1965-S546	2439042.50	1965 Oct 9	Saphir VE231	-	P3	-	-	-	-	HMG	Brigitte	-	-	1150	-	-
1965-096	2439091.12	1965 Nov 26 1447:21	Diamant A	-	No. 1	A-1	A-1	-	-	HMG	Brigitte	-	-	1812	-	-
1966-013	2439173.86	1966 Feb 17 0833:36	Diamant A	-	No. 2	D-1A	Diapason D-1A	-	-	HMG	Brigitte	-	-	2803	-	-
1966-S162	2439197.50	1966 Mar 13	Saphir VE231	-	G1	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S174	2439202.50	1966 Mar 18	Saphir VE231	-	G2	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S194	2439212.50	1966 Mar 28	Saphir VE231	-	R2	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S210	2439220.50	1966 Apr 5	Saphir VE231	-	R1	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S329	2439299.50	1966 Jun 23	Saphir VE231	-	R4	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S529	2439403.50	1966 Oct 5	Saphir VE231	-	R3	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S570	2439426.50	1966 Oct 28	Saphir VE231	-	G3	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-S580	2439431.50	1966 Nov 2	Saphir VE231	-	G4	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1966-M45	2439461.50	1966 Dec 2	Saphir VE231	-	R5	-	-	-	-	HMG	Brigitte	-	-	50?	-	-
1966-S680	2439472.50	1966 Dec 13	Saphir VE231	-	R6	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1967-S64	2439509.50	1967 Jan 19	Saphir VE231	-	G5	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1967-S84	2439517.50	1967 Jan 27	Saphir VE231	-	G6	-	-	-	-	HMG	Brigitte	-	-	1000?	-	-
1967-011	2439529.90	1967 Feb 8 0939:39	Diamant A	-	No. 3	D-1C	Diademe D-1C	-	-	HMG	Brigitte	-	-	1447	-	-
1967-014	2439536.92	1967 Feb 15 1006:57	Diamant A	-	No. 4	D-1D	Diademe D-1D	-	-	HMG	Brigitte	-	-	1900	-	-
1970-017	2440656.01	1970 Mar 10 1220	Diamant B	-	No. 1	Mika/Wika	DIAL Wissenschaftliche K	-	-	CSG	Diamant	-	-	1673	-	-
1970-109	2440933.04	1970 Dec 12 1304:44	Diamant B	-	No. 2	Peole	Peole	-	-	CSG	Diamant	-	-	752	-	-
1971-030	2441056.89	1971 Apr 15 0919:37	Diamant B	-	No. 3	D-2A	D-2A	-	-	CSG	Diamant	-	-	702	-	-
1971-F14	2441291.18	1971 Dec 5 1620	Diamant B	-	No. 4	D-2A	D-2A Polaire	-	-	CSG	Diamant	-	-	300?	-	-
1973-U02	2441823.87	1973 May 21 0847	Diamant B	-	No. 5	D-5A/D-5B	D-5B	-	-	CSG	Diamant	-	-	200?	-	-
1975-010	2442450.19	1975 Feb 6 1635	Diamant BP.4	-	No. 1	Starlette	Starlette	-	-	CSG	Diamant	-	-	1138	-	-
1975-039	2442549.94	1975 May 17 1032	Diamant BP.4	-	No. 2	D-5A/D-5B	D-5A	-	-	CSG	Diamant	-	-	1285	-	-
1975-092	2442682.86	1975 Sep 27 0837	Diamant BP.4	-	No. 3	D-2B	D-2B	-	-	CSG	Diamant	-	-	730	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A86	2438563.50	1964 Jun 17	Emeraude VE121	-	No. 4	0.000	CNES	MF	U	-	Test	NordAvJT	-	JT old: Jun 15
1964-A89	2438572.50	1964 Jun 26	Emeraude VE121	-	No. 5	0.000	CNES	MF	U	-	Test	NordAvJT	-	JT old: Jun 17
1964-A155	2438688.50	1964 Oct 20	Emeraude VE121	-	No. 6	0.000	CNES	MF	U	-	Test	NordAvJT	-	-
1965-S106	2438818.50	1965 Feb 27	Emeraude VE121	-	No. 7	0.000	CNES	MS	-	-	Test	NordAvJT	-	-
1965-S289	2438832.50	1965 Mar 13	Emeraude VE121	-	No. 8	0.000	CNES	MS	-	-	Test	NordAvJT	MR650531-11	Announced May 17
1965-S418	2438946.50	1965 Jul 5	Saphir VE231	-	P1	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1965-M23	2438951.50	1965 Jul 10	Saphir VE231	-	P2	0.000	ONERA	MF	U	-	Reentry Test	NordAvJT	-	-
1965-S546	2439042.50	1965 Oct 9	Saphir VE231	-	P3	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1965-096	2439091.12	1965 Nov 26 1447:21	Diamant A	-	No. 1	0.042	CNES	OS	-	G	Sat LEO O 1	Tiziou	-	-
1966-013	2439173.86	1966 Feb 17 0833:36	Diamant A	-	No. 2	0.019	CNES	OS	-	G	Sat LEO O	Tiziou	-	-
1966-S162	2439197.50	1966 Mar 13	Saphir VE231	-	G1	0.000	ONERA	MS	-	-	Reentry Test	Tiziou	-	-
1966-S174	2439202.50	1966 Mar 18	Saphir VE231	-	G2	0.000	CNES	MS	-	-	Reentry Test	Tiziou	-	-
1966-S194	2439212.50	1966 Mar 28	Saphir VE231	-	R2	0.000	ONERA	MS	-	-	Reentry Test	Tiziou	-	-
1966-S210	2439220.50	1966 Apr 5	Saphir VE231	-	R1	0.000	ONERA	MS	-	-	Reentry Test	Tiziou	-	-
1966-S329	2439299.50	1966 Jun 23	Saphir VE231	-	R4	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1966-S529	2439403.50	1966 Oct 5	Saphir VE231	-	R3	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1966-S570	2439426.50	1966 Oct 28	Saphir VE231	-	G3	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1966-S580	2439431.50	1966 Nov 2	Saphir VE231	-	G4	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1966-M45	2439461.50	1966 Dec 2	Saphir VE231	-	R5	0.000	ONERA	MF	U	-	Reentry Test	NordAvJT	-	-
1966-S680	2439472.50	1966 Dec 13	Saphir VE231	-	R6	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1967-S64	2439509.50	1967 Jan 19	Saphir VE231	-	G5	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1967-S84	2439517.50	1967 Jan 27	Saphir VE231	-	G6	0.000	ONERA	MS	-	-	Reentry Test	NordAvJT	-	-
1967-011	2439529.90	1967 Feb 8 0939:39	Diamant A	-	No. 3	0.023	CNES	OS	-	G	Sat LEO O	Tiziou	-	-
1967-014	2439536.92	1967 Feb 15 1006:57	Diamant A	-	No. 4	0.023	CNES	OS	-	G	Sat LEO O	Tiziou	-	-
1970-017	2440656.01	1970 Mar 10 1220	Diamant B	-	No. 1	0.210	CNES	OS	-	G	Sat LEO O	FI700716-98	-	-
1970-109	2440933.04	1970 Dec 12 1304:44	Diamant B	-	No. 2	0.057	CNES	OS	-	G	Sat LEO O	LeMonde701213	-	-
1971-030	2441056.89	1971 Apr 15 0919:37	Diamant B	-	No. 3	0.096	CNES	OS	-	G	Sat LEO O	JCM	-	-
1971-F14	2441291.18	1971 Dec 5 1620	Diamant B	-	No. 4	0.096	CNES	OF	S2P	G	Sat LEO O	JCM	-	S2 failed midburn
1973-U02	2441823.87	1973 May 21 0847	Diamant B	-	No. 5	0.106	CNES	OF	S2S	G	Sat LEO O	LeMonde730522	-	S2 sep fouled S3 attitude
1975-010	2442450.19	1975 Feb 6 1635	Diamant BP.4	-	No. 1	0.048	CNES	OS	-	G	Sat LEO O	JCM	-	-
1975-039	2442549.94	1975 May 17 1032	Diamant BP.4	-	No. 2	0.108	CNES	OS	-	G	Sat LEO O 2	Falworth	-	-
1975-092	2442682.86	1975 Sep 27 0837	Diamant BP.4	-	No. 3	0.107	CNES	OS	-	G	Sat LEO O 2	Falworth	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-W08	2438079.50	1963 Feb 19	Emma	-	Emma 05	-	-	-	-	HMG	-	-	-	60	-	-
1963-W09	2438080.50	1963 Feb 20	Emma	-	Emma 06	-	-	-	-	HMG	-	-	-	60	-	-
1963-A188	2438086.50	1963 Feb 26	Emma	-	Emma 02	-	-	-	-	HMG	-	-	-	32	-	-
1963-W10	2438088.50	1963 Feb 28	Emma	-	Emma 01	-	-	-	-	HMG	-	-	-	55	-	-
1963-W15	2438159.50	1963 May 10	Emma	-	Emma	-	-	-	-	HMG	-	-	-	18	-	-
1963-W16	2438159.50	1963 May 10	Emma	-	Emma	-	-	-	-	HMG	-	-	-	25	-	-
1963-W37	2438310.50	1963 Oct 8	Emma	-	Emma 03	-	-	-	-	HMG	-	-	-	2	-	-
1963-W38	2438312.50	1963 Oct 10	Emma	-	Emma 04	-	-	-	-	HMG	-	-	-	55	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-W08	2438079.50	1963 Feb 19	Emma	-	Emma 05	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-W09	2438080.50	1963 Feb 20	Emma	-	Emma 06	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-A188	2438086.50	1963 Feb 26	Emma	-	Emma 02	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-W10	2438088.50	1963 Feb 28	Emma	-	Emma 01	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-W15	2438159.50	1963 May 10	Emma	-	Emma	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-W16	2438159.50	1963 May 10	Emma	-	Emma	0.000	CNES	SS	-	MNF/Facy	Aeron	CNES	-	-
1963-W37	2438310.50	1963 Oct 8	Emma	-	Emma 03	0.000	CNES	SF	U	MNF/	Aeron	CNES	-	-
1963-W38	2438312.50	1963 Oct 10	Emma	-	Emma 04	0.000	CNES	SS	-	MNF/	Aeron	CNES	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-U01	2446931.23	1987 May 15 1730:01	Energiya	-	L1506SL	Polyus	Skif-DM TsM	-	-	NIIP-5	LC250	-	-	155	-	-
1988-100	2447480.63	1988 Nov 15 0300:01	Energiya/Buran	-	L1501L	Buran	Buran OK-1K No. 711 (1K1	-	-	NIIP-5	LC110L	-	-	248	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-U01	2446931.23	1987 May 15 1730:01	Energiya	-	L1506SL	70.000	UNKS	OF	PG	G	Sat LEO SA	Energiya	-	Bad Polyus orientation at burn
1988-100	2447480.63	1988 Nov 15 0300:01	Energiya/Buran	-	L1501L	79.400	UNKS	OS	-	G	Sat LEO SR	Energiya	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-M10	2459532.12	2021 Nov 13 1449	Evo Space	-	-	Evolution Space ES1	Too Busy Chasing Stars	-	-	FAR	-	-	-	57	-	-
2023-S22	2460057.13	2023 Apr 22 1512	Evo Space	-	-	Evolution Space ES4	Gold Chain Cowboy	-	-	FAR	-	-	-	124	-	-
2024-A08	2460553.50	2024 Aug 31	Evo Space	-	-	Spaceport Co. Test	-	-	OIALT	PBLA	-	-	-	17	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-M10	2459532.12	2021 Nov 13 1449	Evo Space	-	-	0.000	EVOL	SS	-	EVOL/	Test	Wire	-	-
2023-S22	2460057.13	2023 Apr 22 1512	Evo Space	-	-	0.000	EVOL	SS	-	EVOL/	Test	Wire	-	-
2024-A08	2460553.50	2024 Aug 31	Evo Space	-	-	0.000	SPORT/EVOL	AS	-	EVOL/	Test	evolutionspace.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-S39	2451358.50	1999 Jun 29	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	100?	-	-
1999-S40	2451359.50	1999 Jun 30	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	100?	-	-
1999-S41	2451359.50	1999 Jun 30	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	100?	-	-
2000-S22	2451667.50	2000 May 3?	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	90?	-	-
2000-S23	2451668.50	2000 May 4?	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	90?	-	-
2000-S24	2451668.50	2000 May 4?	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	90?	-	-
2000-S25	2451668.50	2000 May 4?	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	90?	-	-
2000-S26	2451668.50	2000 May 4?	Excalibur	-	-	TBM Target	-	-	-	FTB	MCG	-	-	90?	-	-
2003-Y32	2452802.18	2003 Jun 11 1618:45	Excalibur	-	-	Mini-DUSTY MD-08	-	-	-	AND	-	-	-	90?	-	-
2003-Y33	2452804.15	2003 Jun 13 1530:20	Excalibur	-	-	Mini-DUSTY MD-09	-	-	-	AND	-	-	-	90?	-	-
2005-Y27	2453556.44	2005 Jul 4 2232	Excalibur	-	2	Mini-DUSTY MD-11	-	-	-	AND	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-S39	2451358.50	1999 Jun 29	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	Ulrich	coat.ncf.ca	-
1999-S40	2451359.50	1999 Jun 30	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	Ulrich	coat.ncf.ca	-
1999-S41	2451359.50	1999 Jun 30	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	Ulrich	coat.ncf.ca	-
2000-S22	2451667.50	2000 May 3?	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	coat.ncf.ca	-	-
2000-S23	2451668.50	2000 May 4?	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	coat.ncf.ca	-	-
2000-S24	2451668.50	2000 May 4?	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	coat.ncf.ca	-	-
2000-S25	2451668.50	2000 May 4?	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	coat.ncf.ca	-	-
2000-S26	2451668.50	2000 May 4?	Excalibur	-	-	0.000	SMDC	MS	-	-	Target	coat.ncf.ca	-	-
2003-Y32	2452802.18	2003 Jun 11 1618:45	Excalibur	-	-	0.000	DLR	SS	-	TROM/	Aeron	www.rocketrange.no	-	-
2003-Y33	2452804.15	2003 Jun 13 1530:20	Excalibur	-	-	0.000	DLR	SS	-	TROM/	Aeron	www.rocketrange.no	-	-
2005-Y27	2453556.44	2005 Jul 4 2232	Excalibur	-	2	0.000	DLR	SS	-	TROM/	Aeron	www.rocketrange.no	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1946-A03	2431940.50	1946 May	FFAR	-	-	RM-5 Model	-	-	-	WI	-	-	-	5?	-	-
1946-A08	2432001.50	1946 Jul	FFAR	-	-	RM-5 Model	-	-	-	WI	-	-	-	5?	-	-
1947-A04	2432227.50	1947 Feb 11	FFAR	-	-	RM-10 Model	-	-	-	WI	-	-	-	5?	-	-
1947-A09	2432303.50	1947 Apr 28	Double FFAR	-	-	RM-5 Model	-	-	-	WI	-	-	-	5?	-	-
1947-A10	2432303.50	1947 Apr 28	FFAR	-	-	XF-91 Model	-	-	-	WI	-	-	-	5?	-	-
1947-A32	2432503.50	1947 Nov 14	Double FFAR	-	-	D-558-II Model	-	-	-	WI	-	-	-	5?	-	-
1954-A710	2435096.50	1954 Dec 20	FFAR	-	-	D37 Model	-	-	-	WI	-	-	-	5?	-	-
1955-A465	2435335.50	1955 Aug 16	Rockair	-	-	-	-	-	F2H2-N	NAOTS	RW04/22	WI	LP1	9	-	-
1955-M04	2435335.50	1955 Aug 16	Rockair	-	-	-	-	-	F2H2-N	NAOTS	RW04/22	WI	LP1	55	-	-
1955-M05	2435335.50	1955 Aug 16?	Rockair	-	-	-	-	-	F2H2-N	NAOTS	RW04/22	WI	LP1	50	-	-
1955-M09	2435411.50	1955 Nov	Rockair	-	-	-	-	-	F2H2-N	NAOTS	RW04/22	WI	LP1	50	-	-
1955-M10	2435411.50	1955 Nov	Rockair	-	-	-	-	-	F2H2-N	NAOTS	RW04/22	WI	LP1	50	-	-
1969-A233	2440464.50	1969 Sep	FFAR	-	-	-	NOMAD Buoy launch	-	-	KEW	LP2	-	-	5?	-	-
1998-A08	2451094.07	1998 Oct 7 1335:00	FFAR	-	-	-	-	-	-	ESR	-	-	-	5?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1946-A03	2431940.50	1946 May	FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1946-A08	2432001.50	1946 Jul	FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A04	2432227.50	1947 Feb 11	FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A09	2432303.50	1947 Apr 28	Double FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A10	2432303.50	1947 Apr 28	FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A32	2432503.50	1947 Nov 14	Double FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A710	2435096.50	1954 Dec 20	FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A465	2435335.50	1955 Aug 16	Rockair	-	-	0.000	BUAER	SF	U	UMD/ONR/Singer,Ross	Test	Newell	-	-
1955-M04	2435335.50	1955 Aug 16	Rockair	-	-	0.000	BUAER	SS	-	UMD/ONR/Singer,Ross	Test	Newell	-	-
1955-M05	2435335.50	1955 Aug 16?	Rockair	-	-	0.000	BUAER	SF	U	UMD/ONR/Singer,Ross	Test	Newell	-	-
1955-M09	2435411.50	1955 Nov	Rockair	-	-	0.000	BUAER	SF	U	UMD/ONR/Singer,Ross	Test	Newell	-	-
1955-M10	2435411.50	1955 Nov	Rockair	-	-	0.000	BUAER	SF	U	UMD/ONR/Singer,Ross	Test	Newell	-	-
1969-A233	2440464.50	1969 Sep	FFAR	-	-	0.000	UMI	SS	-	-	Test	Swanson96	-	-
1998-A08	2451094.07	1998 Oct 7 1335:00	FFAR	-	-	0.000	SSC?	AS	-	-	Test	ESRLV	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A104	2441601.08	1972 Oct 10 1400:00	Forschungsflugkorper	-	1	DLR C-FFK-45	-	-	-	CEL	-	-	-	0?	-	-
1972-A109	2441615.12	1972 Oct 24 1500:00	Forschungsflugkorper	-	2	DLR C-FFK-46	-	-	-	CEL	-	-	-	0?	-	-
1974-S188	2442175.04	1974 May 7 1300:01	Forschungsflugkorper	-	3	DLR C-FFK-47	-	-	-	CEL	-	-	-	120	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A104	2441601.08	1972 Oct 10 1400:00	Forschungsflugkorper	-	1	0.000	DLR	SF	U	ERNO/	Test	Moraba	-	-
1972-A109	2441615.12	1972 Oct 24 1500:00	Forschungsflugkorper	-	2	0.000	DLR	SF	U	ERNO/	Test	Moraba	-	-
1974-S188	2442175.04	1974 May 7 1300:01	Forschungsflugkorper	-	3	0.000	DLR	SS	-	ERNO/Oppermann	Test	Moraba	WDC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-A11	2455054.26	2009 Aug 10 1818	FTB	-	1	-	-	-	-	ALCA	UL	-	-	32	-	-
2009-A12	2455057.10	2009 Aug 13 1421	FTB	-	2	-	-	-	-	ALCA	UL	-	-	31	-	-
2009-A13	2455125.34	2009 Oct 20 2016	FTB	-	3	-	-	-	-	CLBI	-	-	-	32	-	-
2009-A14	2455126.35	2009 Oct 21 2030	FTB	-	4	-	-	-	-	CLBI	-	-	-	32	-	-
2010-A15	2455253.27	2010 Feb 25 1830	FTB	-	5	-	-	-	-	CLBI	-	-	-	32	-	-
2010-A16	2455314.25	2010 Apr 27 1800	FTB	-	6	-	-	-	-	ALCA	UL	-	-	32	-	-
2010-A17	2455316.25	2010 Apr 29 1800	FTB	-	7	-	-	-	-	CLBI	-	-	-	32	-	-
2010-A18	2455404.23	2010 Jul 26 1730	FTB	-	8	-	-	-	-	ALCA	UL	-	-	32	-	-
2010-A20	2455460.26	2010 Sep 20 1810	FTB	-	9	-	-	-	-	ALCA	UL	-	-	32	-	-
2011-A31	2455679.25	2011 Apr 27 1800	FTB	-	10	-	-	-	-	CLBI	-	-	-	32	-	-
2011-A34	2455729.23	2011 Jun 16 1730	FTB	-	11	-	-	-	-	ALCA	UL	-	-	32	-	-
2011-A35	2455730.21	2011 Jun 17 1700	FTB	-	12	-	-	-	-	ALCA	UL	-	-	32	-	-
2011-A37	2455854.50	2011 Oct 20	FTB	-	13	-	-	-	-	CLBI	-	-	-	32	-	-
2012-A11	2456001.28	2012 Mar 14 1839	FTB	-	14	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A12	2456015.50	2012 Mar 29	FTB	-	15	-	-	-	-	CLBI	-	-	-	32	-	-
2012-A13	2456069.21	2012 May 21 1700	FTB	-	16	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A14	2456077.20	2012 May 29 1650	FTB	-	17	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A15	2456100.25	2012 Jun 21 1800	FTB	-	18	-	-	-	-	CLBI	-	-	-	32	-	-
2012-A16	2456148.33	2012 Aug 8 1959	FTB	-	19	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A17	2456189.50	2012 Sep 19	FTB	-	20	-	-	-	-	CLBI	-	-	-	32	-	-
2012-A18	2456198.22	2012 Sep 27 1711	FTB	-	21	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A21	2456232.21	2012 Oct 31 1703	FTB	-	22	-	-	-	-	ALCA	UL	-	-	32	-	-
2012-A23	2456239.21	2012 Nov 7 1700	FTB	-	23	-	-	-	-	ALCA	UL	-	-	32	-	-
2013-A03	2456365.00	2013 Mar 13 1200	FTB	-	24?	-	-	-	-	CLBI	-	-	-	32	-	-
2013-A10	2456435.50	2013 May 23	FTB	-	25?	-	-	-	-	ALCA	UL	-	-	32?	-	-
2013-A17	2456513.24	2013 Aug 8 1751	FTB	-	26	-	-	-	-	ALCA	UL	-	-	32	-	-
2014-A05	2456729.17	2014 Mar 12 1600	FTB	-	27	-	-	-	-	ALCA	UL	-	-	32	-	-
2014-A15	2456897.50	2014 Aug 28	FTB	-	28	-	-	-	-	CLBI	-	-	-	32	-	-
2014-A35	2456933.02	2014 Oct 2 1235	FTB	-	29	-	-	-	-	CLBI	-	-	-	32	-	-
2014-A41	2457002.04	2014 Dec 10 1300	FTB	-	30	-	-	-	-	CLBI	-	-	-	32	-	-
2015-A15	2457192.50	2015 Jun 19	FTB	-	31	-	-	-	-	CLBI	-	-	-	32	-	-
2015-A16	2457262.11	2015 Aug 27 1445	FTB	-	32	-	-	-	-	ALCA	UL	-	-	32	-	-
2016-A106	2457676.11	2016 Oct 14 1445	FTB	-	AL30?	-	-	-	-	ALCA	UL	-	-	32	-	-
2016-A105	2457722.17	2016 Nov 29 1602	FTB	-	31?	-	-	-	-	ALCA	UL	-	-	32	-	-
2017-A135	2457913.12	2017 Jun 8 1450	FTB	-	AL20	-	-	-	-	ALCA	UL	-	-	31	-	-
2017-A136	2458095.01	2017 Dec 7 1208	FTB	-	-	-	-	-	-	ALCA	UL	-	-	32	-	-
2018-A189	2458220.20	2018 Apr 11 1645	FTB	-	-	-	-	-	-	ALCA	UL	-	-	32	-	-
2018-A190	2458430.15	2018 Nov 07 1530	FTB	-	-	-	Falcao III	-	-	ALCA	UL	-	-	32	-	-
2020-A15	2459026.37	2020 Jun 25 2052	FTB	-	-	-	-	-	-	ALCA	UL	-	-	30	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-A11	2455054.26	2009 Aug 10 1818	FTB	-	1	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3 assumed
2009-A12	2455057.10	2009 Aug 13 1421	FTB	-	2	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2009-A13	2455125.34	2009 Oct 20 2016	FTB	-	3	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2009-A14	2455126.35	2009 Oct 21 2030	FTB	-	4	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A15	2455253.27	2010 Feb 25 1830	FTB	-	5	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A16	2455314.25	2010 Apr 27 1800	FTB	-	6	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A17	2455316.25	2010 Apr 29 1800	FTB	-	7	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A18	2455404.23	2010 Jul 26 1730	FTB	-	8	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A20	2455460.26	2010 Sep 20 1810	FTB	-	9	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-A31	2455679.25	2011 Apr 27 1800	FTB	-	10	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-A34	2455729.23	2011 Jun 16 1730	FTB	-	11	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-A35	2455730.21	2011 Jun 17 1700	FTB	-	12	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-A37	2455854.50	2011 Oct 20	FTB	-	13	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A11	2456001.28	2012 Mar 14 1839	FTB	-	14	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A12	2456015.50	2012 Mar 29	FTB	-	15	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A13	2456069.21	2012 May 21 1700	FTB	-	16	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A14	2456077.20	2012 May 29 1650	FTB	-	17	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A15	2456100.25	2012 Jun 21 1800	FTB	-	18	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A16	2456148.33	2012 Aug 8 1959	FTB	-	19	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A17	2456189.50	2012 Sep 19	FTB	-	20	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A18	2456198.22	2012 Sep 27 1711	FTB	-	21	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A21	2456232.21	2012 Oct 31 1703	FTB	-	22	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-A23	2456239.21	2012 Nov 7 1700	FTB	-	23	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2013-A03	2456365.00	2013 Mar 13 1200	FTB	-	24?	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2013-A10	2456435.50	2013 May 23	FTB	-	25?	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2013-A17	2456513.24	2013 Aug 8 1751	FTB	-	26	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3
2014-A05	2456729.17	2014 Mar 12 1600	FTB	-	27	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3
2014-A15	2456897.50	2014 Aug 28	FTB	-	28	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2014-A35	2456933.02	2014 Oct 2 1235	FTB	-	29	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	1535LT
2014-A41	2457002.04	2014 Dec 10 1300	FTB	-	30	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	-
2015-A15	2457192.50	2015 Jun 19	FTB	-	31	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2015-A16	2457262.11	2015 Aug 27 1445	FTB	-	32	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3
2016-A106	2457676.11	2016 Oct 14 1445	FTB	-	AL30?	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	-
2016-A105	2457722.17	2016 Nov 29 1602	FTB	-	31?	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2017-A135	2457913.12	2017 Jun 8 1450	FTB	-	AL20	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	-
2017-A136	2458095.01	2017 Dec 7 1208	FTB	-	-	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	-
2018-A189	2458220.20	2018 Apr 11 1645	FTB	-	-	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	Z-2
2018-A190	2458430.15	2018 Nov 07 1530	FTB	-	-	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	Z-2
2020-A15	2459026.37	2020 Jun 25 2052	FTB	-	-	0.000	AEB	AS	-	-	Test	www.fab.mil.br	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-A19	2455412.14	2010 Aug 3 1525	FTI	-	1	-	-	-	-	CLBI	-	-	-	38	-	-
2010-A21	2455470.29	2010 Sep 30 1900	FTI	-	2	-	-	-	-	ALCA	UL	-	-	32	-	-
2011-M06	2455708.21	2011 May 26 1700	FTI	-	3	-	-	-	-	ALCA	UL	-	-	56	-	-
2011-M07	2455709.22	2011 May 27 1710	FTI	-	4	-	-	-	-	ALCA	UL	-	-	65	-	-
2011-A36	2455804.50	2011 Aug 31	FTI	-	5	-	-	-	-	ALCA	UL	-	-	39	-	-
2011-M08	2455806.50	2011 Sep 2	FTI	-	6	-	-	-	-	ALCA	UL	-	-	52	-	-
2012-M06	2456245.29	2012 Nov 13 1900	FTI	-	7	-	-	-	-	ALCA	UL	-	-	53	-	-
2012-M03	2456261.24	2012 Nov 29 1752	FTI	-	8	-	-	-	-	ALCA	UL	-	-	52	-	-
2013-M04	2456457.26	2013 Jun 13 1814	FTI	-	9	-	-	-	-	ALCA	UL	-	-	52	-	-
2013-M05	2456470.25	2013 Jun 26 1800	FTI	-	10	-	-	-	-	CLBI	-	-	-	52?	-	-
2014-M01	2456787.26	2014 May 9 1808	FTI	-	11	-	Op. Aguia I	-	-	ALCA	UL	-	-	52?	-	-
2014-A30	2456891.21	2014 Aug 21 1658	FTI	-	12	-	-	-	-	ALCA	UL	-	-	49	-	-
2015-M05	2457326.20	2015 Oct 30 1650	FTI	-	12	-	-	-	-	ALCA	UL	-	-	52?	-	-
2018-M06	2458211.50	2018 Apr 3?	FTI	-	14	-	Op. Aguila I/2018	-	-	ALCA	UL	-	-	51	-	-
2018-M07	2458450.19	2018 Nov 27 1630	FTI	-	15	-	Op. Mutiti	-	-	ALCA	UL	-	-	52	-	-
2019-M10	2458626.50	2019 May 23	FTI	-	-	-	Op. Agula I/2019	-	-	ALCA	UL	-	-	52?	-	-
2019-M11	2458628.20	2019 May 24 1644	FTI	-	-	-	Op. Agula I/2019	-	-	ALCA	UL	-	-	52?	-	-
2019-M12	2458752.22	2019 Sep 25 1711	FTI	-	-	-	Op. Agula II/2019	-	-	ALCA	UL	-	-	52	75	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-A19	2455412.14	2010 Aug 3 1525	FTI	-	1	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2010-A21	2455470.29	2010 Sep 30 1900	FTI	-	2	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-M06	2455708.21	2011 May 26 1700	FTI	-	3	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-M07	2455709.22	2011 May 27 1710	FTI	-	4	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2011-A36	2455804.50	2011 Aug 31	FTI	-	5	0.000	AEB	AF	U	-	Test	brazilianspace.blog	-	-
2011-M08	2455806.50	2011 Sep 2	FTI	-	6	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2012-M06	2456245.29	2012 Nov 13 1900	FTI	-	7	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3
2012-M03	2456261.24	2012 Nov 29 1752	FTI	-	8	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2013-M04	2456457.26	2013 Jun 13 1814	FTI	-	9	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2013-M05	2456470.25	2013 Jun 26 1800	FTI	-	10	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	Z-3
2014-M01	2456787.26	2014 May 9 1808	FTI	-	11	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2014-A30	2456891.21	2014 Aug 21 1658	FTI	-	12	0.000	AEB	AS	-	-	Test	cla.aer.mil.br	-	-
2015-M05	2457326.20	2015 Oct 30 1650	FTI	-	12	0.000	AEB	AS	-	-	Test	cla.aer.mil.br	-	-
2018-M06	2458211.50	2018 Apr 3?	FTI	-	14	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2018-M07	2458450.19	2018 Nov 27 1630	FTI	-	15	0.000	AEB	AS	-	-	Test	brazilianspace.blog	-	-
2019-M10	2458626.50	2019 May 23	FTI	-	-	0.000	AEB	AS	-	-	Test	fab.mil.br	-	-
2019-M11	2458628.20	2019 May 24 1644	FTI	-	-	0.000	AEB	AS	-	-	Test	fab.mil.br	-	-
2019-M12	2458752.22	2019 Sep 25 1711	FTI	-	-	0.000	AEB	AS	-	-	Test	fab.mil.br	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-F01	2453819.44	2006 Mar 24 2230	Falcon 1	-	F001	Falconsat-2	Falconsat 2	-	-	KMR	OM	-	-	5?	-	-
2007-F02	2454180.55	2007 Mar 21 0110	Falcon 1	-	F002	Demosat	AFSS/LCT2	-	-	KMR	OM	-	-	330?	-	-
2008-F01	2454681.65	2008 Aug 3 0334	Falcon 1	-	F003	Trailblazer	ORS Trailblazer	-	-	KMR	OM	-	-	40?	-	-
2008-048	2454738.47	2008 Sep 28 2315	Falcon 1	-	F004	Ratsat	Mass simulator	-	-	KMR	OM	-	-	644	-	-
2009-037	2455026.65	2009 Jul 14 0336	Falcon 1	-	F005	Razaksat	MACSat	-	-	KMR	OM	-	-	690	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-F01	2453819.44	2006 Mar 24 2230	Falcon 1	-	F001	0.020	SPX	OF	S1P	C	Sat LEO O	Wire	-	Engine fire
2007-F02	2454180.55	2007 Mar 21 0110	Falcon 1	-	F002	0.020	SPX	OF	S2P	C	Sat LEO O	Wire	-	Slosh instability
2008-F01	2454681.65	2008 Aug 3 0334	Falcon 1	-	F003	0.170	SPX	OF	S1S	C	Sat LEO O	Wire	-	Bad separation
2008-048	2454738.47	2008 Sep 28 2315	Falcon 1	-	F004	0.165	SPX	OS	-	C	Sat LEO O	Wire	-	-
2009-037	2455026.65	2009 Jul 14 0336	Falcon 1	-	F005	0.180	SPX	OS	-	C	Sat LEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-026	2455352.28	2010 Jun 4 1845:00	Falcon 9	-	001/B0003? F001	Dragon Qual Unit	Dragon Spacecraft	-	-	CC	LC40	-	-	276	-	-
2010-066	2455539.15	2010 Dec 8 1543	Falcon 9	-	002/B0004? F002	Dragon C1	Dragon C101	-	-	CC	LC40	-	-	11084	-	-
2012-027	2456069.82	2012 May 22 0744:38	Falcon 9	-	003/B0005? F003	Dragon C2	Dragon C102	-	-	CC	LC40	-	-	453	-	-
2012-A10	2456191.50	2012 Sep 21	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2012-054	2456208.52	2012 Oct 8 0035:07	Falcon 9	-	004/B0006? F004	Dragon CRS-1	Dragon C103	-	-	CC	LC40	-	-	426	-	-
2012-A22	2456232.50	2012 Nov 1	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2012-A25	2456278.50	2012 Dec 17	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2013-010	2456353.13	2013 Mar 1 1510:13	Falcon 9	-	005/B0007? F005	Dragon CRS-2	Dragon C104	-	-	CC	LC40	-	-	507	-	-
2013-A02	2456358.50	2013 Mar 7	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2013-A06	2456401.50	2013 Apr 19	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2013-A11	2456457.50	2013 Jun 14	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2013-A12	2456517.50	2013 Aug 13	Grasshopper	-	B0002?	-	-	-	-	SPXMCG	-	-	-	0	-	-
2013-055	2456565.17	2013 Sep 29 1600:13	Falcon 9	1.1	006/B1003? F006	Cassiope/Demo	Cassiope	-	-	VS	SLC4E	-	-	1490	-	-
2013-A19	2456572.50	2013 Oct 7	Grasshopper	-	-	-	-	-	-	SPXMCG	-	-	-	1	-	-
2013-071	2456630.45	2013 Dec 3 2241	Falcon 9	1.1	007 F007	SES-8	SES-8	-	-	CC	LC40	-	-	80415	-	-
2014-002	2456664.42	2014 Jan 6 2206	Falcon 9	1.1	008 F008	Thaicom 6	-	-	-	CC	LC40	-	-	93117	-	-
2014-A06	2456764.50	2014 Apr 17	Falcon 9R	1	001/B1002.1?	F9R Dev1 F001	-	-	-	SPXMCG	-	-	-	0	-	-
2014-022	2456766.31	2014 Apr 18 1925:22	Falcon 9	1.1	009 F009	Dragon CRS-3	Dragon C105	-	-	CC	LC40	-	-	421	-	-
2014-A07	2456778.50	2014 May 1	Falcon 9R	1	002/B1002.2?	F9R Dev1 F002	-	-	-	SPXMCG	-	-	-	1	-	-
2014-A09	2456826.42	2014 Jun 17 2204	Falcon 9R	1	003/B1002.3?	F9R Dev1 F003 Fin	-	-	-	SPXMCG	-	-	-	1	-	-
2014-040	2456853.14	2014 Jul 14 1515:00	Falcon 9	1.1	010 F010	Orbcomm OG2 Mission 1	Orbcomm OG2	-	-	CC	LC40	-	-	748	-	-
2014-A51	2456870.50	2014 Aug 1	Falcon 9R	1	004/B1002.4?	F9R Dev1 F004	-	-	-	SPXMCG	-	-	-	1	-	-
2014-046	2456874.83	2014 Aug 5 0800	Falcon 9	1.1	011 F011	Asiasat 8	Asiasat 8	-	-	CC	LC40	-	-	35987	-	-
2014-A13	2456892.45	2014 Aug 22 2245?	Falcon 9R	1	005/B1002.5?	F9R Dev1 F005	3 engine test	-	-	SPXMCG	-	-	-	1	-	-
2014-052	2456907.71	2014 Sep 7 0500:00	Falcon 9	1.1	012/B1011? F012	Asiasat 6	Asiasat 6/Thaicom	-	-	CC	LC40	-	-	35847	-	-
2014-056	2456921.74	2014 Sep 21 0552:03	Falcon 9	1.1	013/B1010? F013	Dragon CRS-4	Dragon C106	-	-	CC	LC40	-	-	444	-	-
2015-001	2457032.91	2015 Jan 10 0947:10	Falcon 9	1.1	014/B1012? F014	Dragon CRS-5	Dragon C107	-	-	CC	LC40	-	-	411	-	-
2015-007	2457065.46	2015 Feb 11 2303:42	Falcon 9	1.1	015/B1013? F015	DSCOVR	DSCOVR	-	-	CC	LC40	-	-	150000	-	-
2015-010	2457083.66	2015 Mar 2 0350:00	Falcon 9	1.1	016/B1014? F016	ABS-3A/Eutelsat115WB	ABS-3A/Eutelsat115WB	-	-	CC	LC40	-	-	64857	-	-
2015-021	2457127.34	2015 Apr 14 2010:41	Falcon 9	1.1	018/B1015? F017	Dragon CRS-6	Dragon C108	-	-	CC	LC40	-	-	404	-	-
2015-023	2457140.46	2015 Apr 27 2303:00	Falcon 9	1.1	017/B1016? F018	TurkmenAlem52E/MonacoSat	Turkmensat	-	-	CC	LC40	-	-	35897	-	-
2015-F02	2457202.10	2015 Jun 28 1421:11	Falcon 9	1.1	020/B10187 F019	Dragon CRS-7	Dragon C109	-	-	CC	LC40	-	-	45?	-	-
2015-081	2457378.56	2015 Dec 22 0129:00	Falcon 9	FT3	021/B1019 F020	Orbcomm OG2 Mission 2	Orbcomm OG2	-	-	CC	LC40	-	-	762	-	-
2016-002	2457405.28	2016 Jan 17 1842:18	Falcon 9	1.1	019/B1017? F021	Jason-3	Jason-3	-	-	VS	SLC4E	-	-	1357	-	-
2016-013	2457452.48	2016 Mar 4 2335	Falcon 9	FT3	022/B1020? F022	SES-9	SES-9	-	-	CC	LC40	-	-	41805	-	-
2016-024	2457487.36	2016 Apr 8 2043:31	Falcon 9	FT3	023/B1021 F023	Dragon CRS-8	Dragon C110	-	-	CC	LC40	-	-	405	-	-
2016-028	2457514.72	2016 May 6 0521	Falcon 9	FT3	024/B1022? F024	JCSAT 2B	JCSAT 14	-	-	CC	LC40	-	-	35956	-	-
2016-031	2457536.40	2016 May 27 2139	Falcon 9	FT3	025/B1023 F025	Thaicom 8	Thaicom 8	-	-	CC	LC40	-	-	97550	-	-
2016-038	2457555.10	2016 Jun 15 1429	Falcon 9	FT3	026/B1024? F026	ABS-2/Eutelsat 117WB	ABS-2/Eutelsat 117WB	-	-	CC	LC40	-	-	64187	-	-
2016-046	2457587.70	2016 Jul 18 0445:29	Falcon 9	FT3	027/B1025 F027	Dragon CRS-9	Dragon C111	-	-	CC	LC40	-	-	406	-	-
2016-050	2457614.73	2016 Aug 14 0526	Falcon 9	FT3	028/B1026? F028	JCSAT 16	JCSAT 16	-	-	CC	LC40	-	-	36183	-	-
2016-E01	2457633.05	2016 Sep 1 1307	Falcon 9	FT3	029/B1028? F029	Amos 6	Amos 6	-	-	CC	LC40	-	-	0	-	-
2017-003	2457768.25	2017 Jan 14 1754:39	Falcon 9	FT3	030/B1029 F030	Iridium-1	Iridium Next SV1-10	-	-	VS	SLC4E	-	-	785	-	-
2017-009	2457804.11	2017 Feb 19 1439:00	Falcon 9	FT3	032/B1031 F031	Dragon CRS-10	Dragon C112	-	-	KSC	LC39A	-	-	421	-	-
2017-014	2457828.75	2017 Mar 16 0600	Falcon 9	FT3	031/B1030 F032	Echostar 23	Echostar 23	-	-	KSC	LC39A	-	-	35899	-	-
2017-017	2457843.44	2017 Mar 30 2227	Falcon 9	FT3	033/B1021.2 F033	SES-10	SES-10	-	-	KSC	LC39A	-	-	36526	-	-
2017-022	2457874.97	2017 May 1 1115	Falcon 9	FT3/4	034/B1032 F034	USA 276	NROL-76	NROL-76	-	KSC	LC39A	-	-	431	-	-
2017-025	2457889.47	2017 May 15 2321	Falcon 9	FT3/4	035/B1034 F035	Inmarsat 5F4	Inmarsat 5F4	-	-	KSC	LC39A	-	-	70181	-	-
2017-030	2457908.38	2017 Jun 3 2107:38	Falcon 9	FT3	036/B1035 F036	Dragon CRS-11	Dragon C106.2	-	-	KSC	LC39A	-	-	423	-	-
2017-038	2457928.30	2017 Jun 23 1910	Falcon 9	FT3	037/B1029.2 F037	BulgariaSat-1	BulgariaSat-1	-	-	KSC	LC39A	-	-	65512	-	-
2017-039	2457930.35	2017 Jun 25 2025:14	Falcon 9	FT3	038/B1036 F038	Iridium-2	Iridium Next SV11-20	-	-	VS	SLC4E	-	-	784	-	-
2017-041	2457940.48	2017 Jul 5 2338	Falcon 9	FT3/4	039/B1037 F039	Intelsat IS-35e	Intelsat IS-35e	-	-	KSC	LC39A	-	-	43252	-	-
2017-045	2457980.19	2017 Aug 14 1631:37	Falcon 9	FT4	040/B1039 F040	Dragon CRS-12	Dragon C113	-	-	KSC	LC39A	-	-	409	-	-
2017-049	2457990.29	2017 Aug 24 1851	Falcon 9	FT3/4	041/B1038 F041	Formosat-5	Formosat-5	-	-	VS	SLC4E	-	-	731	-	-
2017-052	2458004.08	2017 Sep 7 1400	Falcon 9	FT4	042/B1040 F042	X-37B OTV FLT-5	X-37B No. 2?	-	-	KSC	LC39A	-	-	416	-	-
2017-061	2458036.03	2017 Oct 9 1237:01	Falcon 9	FT4	043/B1041 F043	Iridium-3	Iridium Next SV21-30	-	-	VS	SLC4E	-	-	783	-	-
2017-063	2458038.45	2017 Oct 11 2253	Falcon 9	FT3/4	044/B1031.2 F044	SES-11	SES-11/Echostar-105	-	-	KSC	LC39A	-	-	40586	-	-
2017-067	2458057.32	2017 Oct 30 1934	Falcon 9	FT4	045/B1042 F045	Koreasat-5A	Koreasat-5A	-	-	KSC	LC39A	-	-	50200	-	-
2017-080	2458103.15	2017 Dec 15 1536:09	Falcon 9	FT3/4	047/B1035.2 F046	Dragon CRS-13	Dragon C108.2	-	-	CC	LC40	-	-	490	-	-
2017-083	2458110.56	2017 Dec 23 0127:34	Falcon 9	FT3/4	048/B1036.2 F047	Iridium-4	Iridium Next SV31-40	-	-	VS	SLC4E	-	-	784	-	-
2018-001	2458126.54	2018 Jan 8 0100	Falcon 9	FT4	046/B1043 F048	Zuma	Zuma	-	-	CC	LC40	-	-	1005	-	-
2018-013	2458150.39	2018 Jan 31 2125	Falcon 9	FT3/4	050/B1032.2 F049	GovSat-1	GovSat-1	-	-	CC	LC40	-	-	57661	-	-
2018-017	2458156.36	2018 Feb 6 2045	Falcon Heavy	-	001/B1033.1	Tesla Roadster	Tesla Roadster	B1023.2,B1025.2	-	KSC	LC39A	-	-	150000	-	-
2018-020	2458172.10	2018 Feb 22 1417	Falcon 9	FT3/4	049/B1038.2 F050	PAZ	Tintin Prototypes	-	-	VS	SLC4E	-	-	519	-	-
2018-023	2458183.73	2018 Mar 6 0533	Falcon 9	FT4	051/B1044 F051	Hispasat 30W-6	Hispasat 30W-6	-	-	CC	LC40	-	-	36118	-	-
2018-030	2458208.09	2018 Mar 30 1413:51	Falcon 9	FT4	053/B1041.2 F052	Iridium-5	Iridium Next SV41-50	-	-	VS	SLC4E	-	-	781	-	-
2018-032	2458211.35	2018 Apr 2 2030:38	Falcon 9	FT4	054/B1039.2 F053	Dragon CRS-14	Dragon C110.2	-	-	CC	LC40	-	-	408	-	-
2018-038	2458227.45	2018 Apr 18 2251:30	Falcon 9	FT4	052/B1045 F054	TESS	TESS	-	-	CC	LC40	-	-	150000	-	-
2018-044	2458250.34	2018 May 11 2014	Falcon 9	FT5	055/B1046 F055	Bangabandhu 1	Bangabadhu 1	-	-	KSC	LC39A	-	-	35799	-	-
2018-047	2458261.32	2018 May 22 1947:58	Falcon 9	FT4	056/B1043.2 F056	Iridium-6/GRACE-FO	Iridium-6/GRACE-FO	-	-	VS	SLC4E	-	-	789	-	-
2018-049	2458273.70	2018 Jun 4 0445	Falcon 9	FT4/5	057/B1040.2 F057	SES-12	SES-12	-	-	CC	LC40	-	-	66933	-	-
2018-055	2458298.90	2018 Jun 29 0942:42	Falcon 9	FT4/5	060/B1045.2 F058	Dragon CRS-15	Dragon C111.2	-	-	CC	LC40	-	-	409	-	-
2018-059	2458321.74	2018 Jul 22 0550	Falcon 9	FT5	058/B1047 F059	Telstar 19V	Telstar 19V	-	-	CC	LC40	-	-	35841	-	-
2018-061	2458324.99	2018 Jul 25 1139:26	Falcon 9	FT5	059/B1048 F060	Iridium-7	Iridium-7	-	-	VS	SLC4E	-	-	781	-	-
2018-064	2458337.72	2018 Aug 7 0518	Falcon 9	FT5	061/B1046.2 F061	Merah Putih	Telkom 4	-	-	CC	LC40	-	-	35970	-	-
2018-069	2458371.70	2018 Sep 10 0445	Falcon 9	FT5	062/B1049 F062	Telstar 18V	Telstar 18V	-	-	CC	LC40	-	-	35804	-	-
2018-076	2458399.60	2018 Oct 8 0221:28	Falcon 9	FT5	063/B1048.2 F063	SAOCOM-1A	SAOCOM-1A	-	-	VS	SLC4E	-	-	635	-	-
2018-090	2458438.37	2018 Nov 15 2046	Falcon 9	FT5	065/B1047.2 F064	Es'hail 2	Es'hail 2	-	-	KSC	LC39A	-	-	37688	-	-
2018-099	2458456.27	2018 Dec 3 1834:05	Falcon 9	FT5	066/B1046.3 F065	SSO-A	SSO-A	-	-	VS	SLC4E	-	-	596	-	-
2018-101	2458458.26	2018 Dec 5 1816:16	Falcon 9	FT5	067/B1050 F066	Dragon CRS-16	Dragon C112.2	-	-	CC	LC40	-	-	460	-	-
2018-109	2458476.08	2018 Dec 23 1351	Falcon 9	FT5	064/B1054 F067	GPS III SV01	GPS III SV01	-	-	CC	LC40	-	-	20237	-	-
2019-002	2458495.15	2019 Jan 11 1531:33	Falcon 9	FT5	069/B1049.2 F068	Iridium-8	Iridium-8	-	-	VS	SLC4E	-	-	779	-	-
2019-009	2458536.57	2019 Feb 22 0145	Falcon 9	FT5	070/B1048.3 F069	Nusantara Satu/Beresheet	PSN 6/Beresheet	-	-	CC	LC40	-	-	150000	-	-
2019-011	2458544.83	2019 Mar 2 0749	Falcon 9	FT5	068/B1051 F070	Crew Dragon DM-1	Dragon C204	-	-	KSC	LC39A	-	-	416	-	-
2019-021	2458585.44	2019 Apr 11 2235	Falcon Heavy	-	002/B1055.1	Arabsat 6A	Arabsat 6A	B1052.1,B1053.1	-	KSC	LC39A	-	-	90133	-	-
2019-025	2458607.78	2019 May 4 0648:58	Falcon 9	FT5	071/B1056.1 F071	Dragon CRS-17	Dragon C113.2	-	-	CC	LC40	-	-	418	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-029	2458627.60	2019 May 24 0230	Falcon 9	FT5	073/B1049.3 F072	Starlink-1	Starlink V0.9	V0.9 (60)	-	CC	LC40	-	-	588	-	-
2019-033	2458647.10	2019 Jun 12 1417	Falcon 9	FT5	072/B1051.2 F073	RCM	Radarsat Const. Mission	-	-	VS	SLC4E	-	-	607	-	-
2019-036	2458659.77	2019 Jun 25 0630	Falcon Heavy	-	003/B1057.1	STP-2	STP-2	B1052.2,B1053.2	-	KSC	LC39A	-	-	12080	-	-
2019-044	2458690.42	2019 Jul 25 2201:56	Falcon 9	FT5	076/B1056.2 F074	Dragon CRS-18	Dragon C108.3	-	-	CC	LC40	-	-	494	-	-
2019-050	2458702.47	2019 Aug 6 2323:00	Falcon 9	FT5	075/B1047.3 F075	AMOS 17	AMOS 17	-	-	CC	LC40	-	-	35979	-	-
2019-074	2458799.12	2019 Nov 11 1456	Falcon 9	FT5	077/B1048.4 F076	Starlink-2	Starlink V1.0-L1	L1 (60)	-	CC	LC40	-	-	577	-	-
2019-083	2458823.23	2019 Dec 5 1729:24	Falcon 9	FT5	080/B1059 F077	Dragon CRS-19	Dragon C106.3	-	-	CC	LC40	-	-	474	-	-
2019-091	2458834.51	2019 Dec 17 0010	Falcon 9	FT5	078/B1056.3 F078	JCSAT-18-Kacific-1	JCSAT-18-Kacific-1	-	-	CC	LC40	-	-	35801	-	-
2020-001	2458855.60	2020 Jan 7 0219:21	Falcon 9	FT5	079/B1049.4 F079	Starlink-3	Starlink V1.0-L2	L2 (60)	-	CC	LC40	-	-	561	-	-
2020-A04	2458868.15	2020 Jan 19 1530:00	Falcon 9	FT5	074/B1046.4 F080	Dragon IFA	Dragon C205	-	-	KSC	LC39A	-	-	40	32	Atlantic
2020-006	2458878.09	2020 Jan 29 1406	Falcon 9	FT5	082/B1051.3 F081	Starlink-4	Starlink V1.0-L3	L3 (60)	-	CC	LC40	-	-	566	-	-
2020-012	2458897.13	2020 Feb 17 1505:55	Falcon 9	FT5	083/B1056.4 F082	Starlink-5	Starlink V1.0-L4	L4 (60)	-	CC	LC40	-	-	567	-	-
2020-016	2458915.70	2020 Mar 7 0450:31	Falcon 9	FT5	087/B1059.2 F083	Dragon CRS-20	Dragon C112.3	-	-	CC	LC40	-	-	486	-	-
2020-019	2458927.01	2020 Mar 18 1216:39	Falcon 9	FT5	084/B1048.5 F084	Starlink-6	Starlink V1.0-L5	L5 (60)	-	KSC	LC39A	-	-	573	-	-
2020-025	2458962.31	2020 Apr 22 1930	Falcon 9	FT5	086/B1051.4 F085	Starlink-7	Starlink V1.0-L6	L6 (60)	-	KSC	LC39A	-	-	565	-	-
2020-033	2459000.31	2020 May 30 1922:45	Falcon 9	FT5	081/B1058.1 F086	Dragon DM-2	Dragon C206	-	-	KSC	LC39A	-	-	6522	-	-
2020-035	2459004.56	2020 Jun 4 0125:33	Falcon 9	FT5	088/B1049.5 F087	Starlink-8	Starlink V1.0-L7	L7 (60)	-	CC	LC40	-	-	564	-	-
2020-038	2459013.89	2020 Jun 13 0921:18	Falcon 9	FT5	090/B1059.3 F088	Starlink-9	Starlink V1.0-L8/SkySat	L8 (58)	-	CC	LC40	-	-	566	-	-
2020-041	2459031.34	2020 Jun 30 2010:46	Falcon 9	FT5	085/B1060.1 F089	GPS III SV-03	GPS III SV-03	-	-	CC	LC40	-	-	20252	-	-
2020-048	2459051.40	2020 Jul 20 2130	Falcon 9	FT5	092/B1058.2 F090	ANASIS II	ANASIS-2	-	-	CC	LC40	-	-	45547	-	-
2020-055	2459068.72	2020 Aug 7 0512:05	Falcon 9	FT5	091/B1051.5 F091	Starlink-10	Starlink V1.0-L9/BSky	L9 (57)	-	KSC	LC39A	-	-	571	-	-
2020-057	2459080.10	2020 Aug 18 1431:00	Falcon 9	FT5	093/B1049.6 F092	Starlink-11	Starlink V1.0-L10/SkySat	L10 (58)	-	CC	LC40	-	-	577	-	-
2020-059	2459092.47	2020 Aug 30 2318:00	Falcon 9	FT5	089/B1059.4 F093	SAOCOM-1B	SAOCOM-1B	-	-	CC	LC40	-	-	624	-	-
2020-062	2459096.03	2020 Sep 3 1246:14	Falcon 9	FT5	094/B1060.2 F094	Starlink-12	Starlink V1.0-L11	L11 (60)	-	KSC	LC39A	-	-	575	-	-
2020-070	2459128.98	2020 Oct 6 1129:34	Falcon 9	FT5	096/B1058.3 F095	Starlink-13	Starlink V1.0-L12	L12 (60)	-	KSC	LC39A	-	-	565	-	-
2020-073	2459141.02	2020 Oct 18 1225:57	Falcon 9	FT5	095/B1051.6 F096	Starlink-14	Starlink V1.0-L13	L13 (60)	-	KSC	LC39A	-	-	562	-	-
2020-074	2459147.15	2020 Oct 24 1531:34	Falcon 9	FT5	100/B1060.3 F097	Starlink-15	Starlink V1.0-L14	L14 (60)	-	CC	LC40	-	-	559	-	-
2020-078	2459159.48	2020 Nov 5 2324:23	Falcon 9	FT5	098/B1062.1 F098	GPS III SV-04	GPS III SV-04	-	-	CC	LC40	-	-	20245	-	-
2020-084	2459169.52	2020 Nov 16 0027:17	Falcon 9	FT5	097/B1061.1 F099	Dragon Crew-1	Dragon C207	-	-	KSC	LC39A	-	-	422	-	-
2020-086	2459175.22	2020 Nov 21 1717:08	Falcon 9	FT5	106/B1063.1 F100	Sentinel-6	Sentinel-6	-	-	VS	SLC4E	-	-	1344	-	-
2020-088	2459178.59	2020 Nov 25 0213:12	Falcon 9	FT5	102/B1049.7 F101	Starlink-16	Starlink V1.0-L15	L15 (60)	-	CC	LC40	-	-	563	-	-
2020-093	2459190.18	2020 Dec 6 1617:08	Falcon 9	FT5	103/B1058.4 F102	Dragon CRS-21	Dragon C208	-	-	KSC	LC39A	-	-	422	-	-
2020-096	2459197.23	2020 Dec 13 1730	Falcon 9	FT5	099/B1051.7 F103	SXM-7	SXM-7	-	-	CC	LC40	-	-	35808	-	-
2020-101	2459203.08	2020 Dec 19 1400	Falcon 9	FT5	101/B1059.5 F104	USA 312/USA 313	NROL-108	NROL-108	-	KSC	LC39A	-	-	706	-	-
2021-001	2459222.59	2021 Jan 8 0215	Falcon 9	FT5	104/B1060.4 F105	Turksat 5A	Turksat 5A	-	-	CC	LC40	-	-	61893	-	-
2021-005	2459235.04	2021 Jan 20 1302	Falcon 9	FT5	105/B1051.8 F106	Starlink-17	Starlink V1.0-L16	L16 (60)	-	KSC	LC39A	-	-	557	-	-
2021-006	2459239.12	2021 Jan 24 1500	Falcon 9	FT5	107/B1058.5 F107	Transporter-1	Transporter-1	Starlink-18 (10 Ku)	-	CC	LC40	-	-	567	-	-
2021-009	2459249.76	2021 Feb 4 0619	Falcon 9	FT5	109/B1060.5 F108	Starlink-19 (N18)	Starlink V1.0-L18	L18 (60)	-	CC	LC40	-	-	562	-	-
2021-012	2459261.67	2021 Feb 16 0359:37	Falcon 9	FT5	110/B1059.6 F109	Starlink-20 (N19)	Starlink V1.0-L19	L19 (60)	-	CC	LC40	-	-	564	-	-
2021-017	2459277.85	2021 Mar 4 0824:54	Falcon 9	FT5	108/B1049.8 F110	Starlink-21 (N20)	Starlink V1.0-L17	L17 (60)	-	KSC	LC39A	-	-	561	-	-
2021-018	2459284.84	2021 Mar 11 0813:29	Falcon 9	FT5	111/B1058.6 F111	Starlink-22 (N21)	Starlink V1.0-L20	L20 (60)	-	CC	LC40	-	-	560	-	-
2021-021	2459287.92	2021 Mar 14 1001:26	Falcon 9	FT5	112/B1051.9 F112	Starlink-23 (N22)	Starlink V1.0-L21	L21 (60)	-	KSC	LC39A	-	-	578	-	-
2021-024	2459297.85	2021 Mar 24 0828	Falcon 9	FT5	113/B1060.6 F113	Starlink-24 (N23)	Starlink V1.0-L22	L22 (60)	-	CC	LC40	-	-	561	-	-
2021-027	2459312.19	2021 Apr 7 1634	Falcon 9	FT5	114/B1058.7 F114	Starlink-25 (N24)	Starlink V1.0-L23	L23 (60)	-	CC	LC40	-	-	557	-	-
2021-030	2459327.91	2021 Apr 23 0949:02	Falcon 9	FT5	118/B1061.2 F115	Dragon Crew-2	Dragon C206.2	-	-	KSC	LC39A	-	-	426	-	-
2021-036	2459333.66	2021 Apr 29 0344:30	Falcon 9	FT5	115/B1060.7 F116	Starlink-26 (N25)	Starlink V1.0-L24	L24 (60)	-	CC	LC40	-	-	561	-	-
2021-038	2459339.29	2021 May 4 1901	Falcon 9	FT5	116/B1049.9 F117	Starlink-27 (N26)	Starlink V1.0-L25	L25 (60)	-	KSC	LC39A	-	-	562	-	-
2021-040	2459343.78	2021 May 9 0642	Falcon 9	FT5	117/B1051.10 F118	Starlink-28 (N27)	Starlink V1.0-L27	L27 (60)	-	CC	LC40	-	-	563	-	-
2021-041	2459350.46	2021 May 15 2256	Falcon 9	FT5	119/B1058.8 F119	Starlink-29 (N28)	Starlink V1.0-L26	L26 (52)	-	KSC	LC39A	-	-	588	-	-
2021-044	2459361.29	2021 May 26 1859	Falcon 9	FT5	120/B1063.2 F120	Starlink-30 (N29)	Starlink V1.0-L28	L28 (60)	-	CC	LC40	-	-	561	-	-
2021-048	2459369.23	2021 Jun 3 1729:15	Falcon 9	FT5	122/B1067.1 F121	Dragon CRS-22	Dragon C209	-	-	KSC	LC39A	-	-	425	-	-
2021-049	2459371.68	2021 Jun 6 0426	Falcon 9	FT5	121/B1061.3 F122	SXM-8	SXM-8	-	-	CC	LC40	-	-	35800	-	-
2021-054	2459383.17	2021 Jun 17 1609:35	Falcon 9	FT5	123/B1062.2 F123	GPS III SV05	GPS III SV05	-	-	CC	LC40	-	-	20202	-	-
2021-059	2459396.31	2021 Jun 30 1931	Falcon 9	FT5	124/B1060.8 F124	Transporter-2	Transporter-2	Starlink-31 (3 Ku)	-	CC	LC40	-	-	660	-	-
2021-078	2459455.80	2021 Aug 29 0714:48	Falcon 9	FT5	127/B1061.4 F125	Dragon CRS-23	Dragon C208.2	-	-	KSC	LC39A	-	-	437	-	-
2021-082	2459471.66	2021 Sep 14 0355:50	Falcon 9	FT5	125/B1049.10 F126	Starlink-32 (N30)	Starlink Group 2-1	V1.5 2-1 (51 Ku)	-	VSFBS	SLC4E	-	-	580	-	-
2021-084	2459473.50	2021 Sep 16 0002:56	Falcon 9	FT5	128/B1062.3 F127	Inspiration4	Dragon C207.2	-	-	KSC	LC39A	-	-	579	-	-
2021-103	2459529.59	2021 Nov 11 0203:31	Falcon 9	FT5	131/B1067.2 F128	Dragon Crew-3	Dragon C210	-	-	KSC	LC39A	-	-	424	-	-
2021-104	2459532.01	2021 Nov 13 1218:56	Falcon 9	FT5	130/B1058.9 F129	Starlink-33	Starlink Group 4-1	V1.5 4-1 (53 Ku)	-	CC	LC40	-	-	544	-	-
2021-110	2459542.76	2021 Nov 24 0621:02	Falcon 9	FT5	133/B1063.3 F130	DART	DART	-	-	VSFBS	SLC4E	-	-	150000	-	-
2021-115	2459551.47	2021 Dec 2 2312	Falcon 9	FT5	126/B1060.9 F131	Starlink-34	Starlink Group 4-3	V1.5 4-3 (48 Ku)	-	CC	LC40	-	-	546	-	-
2021-121	2459557.75	2021 Dec 9 0600	Falcon 9	FT5	132/B1061.5 F132	IXPE	IXPE	-	-	KSC	LC39A	-	-	617	-	-
2021-125	2459567.03	2021 Dec 18 1241:40	Falcon 9	FT5	129/B1051.11 F133	Starlink-35	Starlink Group 4-4	V1.5 4-4 (52 Ku)	-	VSFBS	SLC4E	-	-	546	-	-
2021-126	2459567.67	2021 Dec 19 0358:39	Falcon 9	FT5	135/B1067.3 F134	Turksat 5B	Turksat 5B	-	-	CC	LC40	-	-	72425	-	-
2021-127	2459569.92	2021 Dec 21 1007:08	Falcon 9	FT5	136/B1069.1 F135	Dragon CRS-24	Dragon C209.2	-	-	KSC	LC39A	-	-	428	-	-
2022-001	2459586.41	2022 Jan 6 2149	Falcon 9	FT5	138/B1062.4 F136	Starlink-36	Starlink Group 4-5	V1.5 4-5 (49 Ku)	-	KSC	LC39A	-	-	547	-	-
2022-002	2459593.14	2022 Jan 13 1525	Falcon 9	FT5	137/B1058.10 F137	Transporter-3	Transporter-3	-	-	CC	LC40	-	-	543	-	-
2022-005	2459598.59	2022 Jan 19 0202:40	Falcon 9	FT5	139/B1060.10 F138	Starlink-37	Starlink Group 4-6	V1.5 4-6 (49 Ku)	-	KSC	LC39A	-	-	543	-	-
2022-008	2459611.47	2022 Jan 31 2311	Falcon 9	FT5	134/B1052.3 F139	COSMO-Skymed SG FM2	COSMO-Skymed SG FM2	-	-	CC	LC40	-	-	626	-	-
2022-009	2459613.35	2022 Feb 2 2027:26	Falcon 9	FT5	141/B1071.1 F140	USA 326	CRYSTAL Block 5?	NROL-87	-	VSFBS	SLC4E	-	-	547	-	-
2022-010	2459614.26	2022 Feb 3 1813:20	Falcon 9	FT5	140/B1061.6 F141	Starlink-38	Starlink Group 4-7	V1.5 4-7 (49 Ku)	-	KSC	LC39A	-	-	542	-	-
2022-016	2459632.11	2022 Feb 21 1444:20	Falcon 9	FT5	142/B1058.11 F142	Starlink-39	Starlink Group 4-8	V1.5 4-8 (46 Ku)	-	CC	LC40	-	-	542	-	-
2022-017	2459636.22	2022 Feb 25 1712:10	Falcon 9	FT5	143/B1063.4 F143	Starlink-40	Starlink Group 4-11	V1.5 4-11 (50 Ku)	-	VSFBS	SLC4E	-	-	545	-	-
2022-022	2459642.10	2022 Mar 3 1425:00	Falcon 9	FT5	144/B1060.11 F144	Starlink-41	Starlink Group 4-9	V1.5 4-9 (47 Ku)	-	KSC	LC39A	-	-	543	-	-
2022-025	2459648.07	2022 Mar 9 1345:00	Falcon 9	FT5	145/B1052.4 F145	Starlink-42	Starlink Group 4-10	V1.5 4-10 (48 Ku)	-	CC	LC40	-	-	541	-	-
2022-029	2459657.70	2022 Mar 19 0442:30	Falcon 9	FT5	146/B1051.12 F146	Starlink-43	Starlink Group 4-12	V1.5 4-12 (53 Ku)	-	CC	LC40	-	-	542	-	-
2022-033	2459671.18	2022 Apr 1 1624:16	Falcon 9	FT5	148/B1061.7 F147	Transporter-4	Transporter-4	-	-	CC	LC40	-	-	659	-	-
2022-037	2459678.14	2022 Apr 8 1517:11	Falcon 9	FT5	147/B1062.5 F148	Axiom Ax-1	Dragon C206.3	-	-	KSC	LC39A	-	-	425	-	-
2022-040	2459687.05	2022 Apr 17 1313	Falcon 9	FT5	149/B1071.2 F149	NROL-85	INTRUDER	-	-	VSFBS	SLC4E	-	-	1208	-	-
2022-041	2459691.24	2022 Apr 21 1751:40	Falcon 9	FT5	151/B1060.12 F150	Starlink-44	Starlink Group 4-14	V1.5 4-14 (53 Ku)	-	CC	LC40	-	-	548	-	-
2022-042	2459696.83	2022 Apr 27 0752:55	Falcon 9	FT5	150/B1067.4 F151	Dragon Crew-4	Dragon C212	-	-	KSC	LC39A	-	-	421	-	-
2022-045	2459699.39	2022 Apr 29 2127:10	Falcon 9	FT5	152/B1062.6 F152	Starlink-45	Starlink Group 4-16	V1.5 4-16 (53 Ku)	-	CC	LC40	-	-	546	-	-
2022-049	2459705.90	2022 May 6 0942:00	Falcon 9	FT5	153/B1058.12 F153	Starlink-46	Starlink Group 4-17	V1.5 4-17 (53 Ku)	-	KSC	LC39A	-	-	541	-	-
2022-051	2459713.42	2022 May 13 2207:50	Falcon 9	FT5	154/B1063.5 F154	Starlink-47	Starlink Group 4-13	V1.5 4-13 (53 Ku)	-	VSFBS	SLC4E	-	-	547	-	-
2022-052	2459714.36	2022 May 14 2040:50	Falcon 9	FT5	155/B1073.1 F155	Starlink-48	Starlink Group 4-15	V1.5 4-15 (53 Ku)	-	CC	LC40	-	-	547	-	-
2022-053	2459717.96	2022 May 18 1059:40	Falcon 9	FT5	156/B1052.5 F156	Starlink-49	Starlink Group 4-18	V1.5 4-18 (53 Ku)	-	KSC	LC39A	-	-	547	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-057	2459725.27	2022 May 25 1835:00	Falcon 9	FT5	157/B1061.8 F157	Transporter-5	Transporter-5	-	-	CC	LC40	-	-	544	-	-
2022-061	2459739.38	2022 Jun 8 2104	Falcon 9	FT5	159/B1062.7 F158	Nilesat 301	Nilesat 301	-	-	CC	LC40	-	-	45460	-	-
2022-062	2459748.17	2022 Jun 17 1608:50	Falcon 9	FT5	160/B1060.13 F159	Starlink-50	Starlink Group 4-19	V1.5 4-19 (53 Ku)	-	KSC	LC39A	-	-	541	-	-
2022-063	2459749.10	2022 Jun 18 1419:52	Falcon 9	FT5	162/B1071.3 F160	SARah-1	SARah-1	-	-	VSFBS	SLC4E	-	-	751	-	-
2022-064	2459749.69	2022 Jun 19 0427:36	Falcon 9	FT5	161/B1061.9 F161	Globalstar/USA 328-331	Globalstar FM15	-	-	CC	LC40	-	-	1126	-	-
2022-071	2459760.38	2022 Jun 29 2104	Falcon 9	FT5	164/B1073.2 F162	SES-22	SES-22	-	-	CC	LC40	-	-	35807	-	-
2022-076	2459768.05	2022 Jul 7 1311:00	Falcon 9	FT5	163/B1058.13 F163	Starlink-51	Starlink Group 4-21	V1.5 4-21 (53 Ku)	-	CC	LC40	-	-	541	-	-
2022-077	2459771.57	2022 Jul 11 0139:40	Falcon 9	FT5	165/B1063.6 F164	Starlink-52	Starlink Group 3-1	V1.5 3-1 (46 Ku)	-	VSFBS	SLC4E	-	-	567	-	-
2022-081	2459775.53	2022 Jul 15 0044:22	Falcon 9	FT5	158/B1067.5 F165	Dragon CRS-25	Dragon C208.3	-	-	KSC	LC39A	-	-	421	-	-
2022-083	2459778.10	2022 Jul 17 1420:00	Falcon 9	FT5	166/B1051.13 F166	Starlink-53	Starlink Group 4-22	V1.5 4-22 (53 Ku)	-	CC	LC40	-	-	541	-	-
2022-084	2459783.24	2022 Jul 22 1739:40	Falcon 9	FT5	167/B1071.4 F167	Starlink-54	Starlink Group 3-2	V1.5 3-2 (46 Ku)	-	VSFBS	SLC4E	-	-	567	-	-
2022-086	2459785.07	2022 Jul 24 1338:20	Falcon 9	FT5	168/B1062.8 F168	Starlink-55	Starlink Group 4-25	V1.5 4-25 (53 Ku)	-	KSC	LC39A	-	-	541	-	-
2022-094	2459796.46	2022 Aug 4 2308:48	Falcon 9	FT5	169/B1052.6 F169	Danuri	KPLO	-	-	CC	LC40	-	-	150000	-	-
2022-097	2459801.59	2022 Aug 10 0214:40	Falcon 9	FT5	171/B1073.3 F170	Starlink-56	Starlink Group 4-26	V1.5 4-26 (52 Ku)	-	KSC	LC39A	-	-	541	-	-
2022-099	2459804.40	2022 Aug 12 2140:20	Falcon 9	FT5	170/B1061.10 F171	Starlink-57	Starlink Group 3-3	V1.5 3-3 (46 Ku)	-	VSFBS	SLC4E	-	-	554	-	-
2022-101	2459811.31	2022 Aug 19 1921:20	Falcon 9	FT5	172/B1062.9 F172	Starlink-58	Starlink Group 4-27	V1.5 4-27 (53 Ku)	-	CC	LC40	-	-	479	-	-
2022-104	2459819.65	2022 Aug 28 0341:20	Falcon 9	FT5	173/B1069.2 F173	Starlink-59	Starlink Group 4-23	V1.5 4-23 (54 Ku)	-	CC	LC40	-	-	418	-	-
2022-105	2459822.74	2022 Aug 31 0540:10	Falcon 9	FT5	174/B1063.7 F174	Starlink-60	Starlink Group 3-4	V1.5 3-4 (46 Ku)	-	VSFBS	SLC4E	-	-	423	-	-
2022-107	2459827.59	2022 Sep 5 0209:40	Falcon 9	FT5	175/B1052.7 F175	Starlink-61	Starlink Group 4-20/SLTC	V1.5 4-20 (51 Ku)	-	CC	LC40	-	-	351	-	-
2022-111	2459833.56	2022 Sep 11 0120:00	Falcon 9	FT5	176/B1058.14 F176	Starlink-62	Starlink Group 4-2/BW3	V1.5 4-2 (34 Ku)	-	KSC	LC39A	-	-	519	-	-
2022-114	2459841.51	2022 Sep 19 0018:40	Falcon 9	FT5	177/B1067.6 F177	Starlink-63	Starlink Group 4-34	V1.5 4-34 (54 Ku)	-	CC	LC40	-	-	337	-	-
2022-119	2459847.48	2022 Sep 24 2332:10	Falcon 9	FT5	178/B1073.4 F178	Starlink-64	Starlink Group 4-35	V1.5 4-35 (52 Ku)	-	CC	LC40	-	-	-	-	-
2022-124	2459858.17	2022 Oct 5 1600:57	Falcon 9	FT5	181/B1077.1 F179	Dragon Crew-5	Dragon C210.2	-	-	KSC	LC39A	-	-	-	-	-
2022-125	2459858.47	2022 Oct 5 2310:30	Falcon 9	FT5	180/B1071.5 F180	Starlink-65	Starlink Group 4-29	V1.5 4-29 (52 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2022-128	2459861.46	2022 Oct 8 2305	Falcon 9	FT5	182/B1060.14 F181	Galaxy 33/34	Galaxy 33/34	-	-	CC	LC40	-	-	-	-	-
2022-134	2459867.72	2022 Oct 15 0522	Falcon 9	FT5	183/B1069.3 F182	Hot Bird 13F	Hot Bird 13F	-	-	CC	LC40	-	-	-	-	-
2022-136	2459873.12	2022 Oct 20 1450:40	Falcon 9	FT5	179/B1062.10 F183	Starlink-66	Starlink Group 4-36	V1.5 4-36 (54 Ku)	-	CC	LC40	-	-	-	-	-
2022-141	2459880.55	2022 Oct 28 0114:10	Falcon 9	FT5	184/B1063.8 F184	Starlink-67	Starlink Group 4-31	V1.5 4-31 (53 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2022-144	2459885.07	2022 Nov 1 1341	Falcon Heavy	-	004/B1066.1	USSF-44	LDPE-2	B1064.1,B1065.1	-	KSC	LC39A	-	-	-	-	-
2022-146	2459886.72	2022 Nov 3 0522	Falcon 9	FT5	185/B1067.7 F185	Hot Bird 13G	Hot Bird 13G	-	-	CC	LC40	-	-	-	-	-
2022-153	2459896.17	2022 Nov 12 1606	Falcon 9	FT5	186/B1051.14 F186	Galaxy 31/32	Galaxy 31/32	-	-	CC	LC40	-	-	-	-	-
2022-157	2459906.62	2022 Nov 23 0257	Falcon 9	FT5	188/B1049.11 F187	Eutelsat 10B	Eutelsat 10B	-	-	CC	LC40	-	-	-	-	-
2022-159	2459910.31	2022 Nov 26 1920:43	Falcon 9	FT5	189/B1076.1 F188	Dragon CRS-26	Dragon C211	-	-	KSC	LC39A	-	-	-	-	-
2022-166	2459922.44	2022 Dec 8 2227:48	Falcon 9	FT5	192/B1069.4 F189	OneWeb-1	OneWeb L15	-	-	KSC	LC39A	-	-	-	-	-
2022-168	2459924.82	2022 Dec 11 0738:13	Falcon 9	FT5	190/B1073.5 F190	Hakuto-R M1	Hakuto-R M1	-	-	CC	LC40	-	-	-	-	-
2022-173	2459929.99	2022 Dec 16 1146:47	Falcon 9	FT5	194/B1071.6 F191	SWOT	SWOT	-	-	VSFBS	SLC4E	-	-	-	-	-
2022-174	2459930.45	2022 Dec 16 2248:00?	Falcon 9	FT5	193/B1067.8 F192	O3b mPOWER 1/2	O3b mPOWER 1/2	-	-	CC	LC40	-	-	-	-	-
2022-175	2459931.40	2022 Dec 17 2132:30	Falcon 9	FT5	191/B1058.15 F193	Starlink-68	Starlink Group 4-37	V1.5 4-37 (54 Ku)	-	KSC	LC39A	-	-	-	-	-
2022-177	2459941.90	2022 Dec 28 0934:00	Falcon 9	FT5	195/B1062.11 F194	Starlink-69	Starlink Group 5-1	V1.5 5-1 (54 Ku)	-	CC	LC40	-	-	-	-	-
2022-179	2459943.82	2022 Dec 30 0738	Falcon 9	FT5	187/B1061.11 F195	EROS C3	EROS C3	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-001	2459948.12	2023 Jan 3 1455:56	Falcon 9	FT5	196/B1060.15 F196	Transporter-6	Transporter-6	-	-	CC	LC40	-	-	-	-	-
2023-004	2459954.70	2023 Jan 10 0450:17	Falcon 9	FT5	198/B1076.2 F197	OneWeb-2	OneWeb L16	-	-	CC	LC40	-	-	-	-	-
2023-008	2459960.46	2023 Jan 15 2256	Falcon Heavy	-	005/B1070.1	USSF-67	CBAS-2/LDPE-3A	B1064.2,B1065.2	-	KSC	LC39A	-	-	-	-	-
2023-009	2459963.02	2023 Jan 18 1224	Falcon 9	FT5	199/B1077.2 F198	GPS III SV06	GPS III SV06	-	-	CC	LC40	-	-	-	-	-
2023-010	2459964.15	2023 Jan 19 1543:10	Falcon 9	FT5	197/B1075.1 F199	Starlink-70	Starlink Group 2-4	V1.5 2-4 (51 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-013	2459970.90	2023 Jan 26 0932:20	Falcon 9	FT5	201/B1067.9 F200	Starlink-71	Starlink Group 5-2	V1.5 5-2 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-014	2459976.18	2023 Jan 31 1615:00	Falcon 9	FT5	200/B1071.7 F201	Starlink-72	Starlink Group 2-6	V1.5 5-6 (49 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-015	2459977.83	2023 Feb 2 0758:20	Falcon 9	FT5	202/B1069.5 F202	Starlink-73	Starlink Group 5-3	V1.5 5-3 (43 Ku)	-	KSC	LC39A	-	-	-	-	-
2023-017	2459982.56	2023 Feb 7 0132	Falcon 9	FT5	203/B1073.6 F203	Amazonas Nexus	Amazonas Nexus	-	-	CC	LC40	-	-	-	-	-
2023-020	2459987.72	2023 Feb 12 0510:10	Falcon 9	FT5	205/B1062.12 F204	Starlink-74	Starlink Group 5-4	V1.5 5-4 (55 Ku)	-	CC	LC40	-	-	-	-	-
2023-021	2459993.30	2023 Feb 17 1912:20	Falcon 9	FT5	206/B1063.9 F205	Starlink-75	Starlink Group 2-5	V1.5 2-5 (51 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-022	2459993.67	2023 Feb 18 0359	Falcon 9	FT5	207/B1077.3 F206	Inmarsat 6 F2	Inmarsat 6 F2	-	-	CC	LC40	-	-	-	-	-
2023-026	2460003.47	2023 Feb 27 2313:50	Falcon 9	FT5	208/B1076.3 F207	Starlink-76	Starlink Group 6-1	V2M 6-1 (21 Ku)	-	CC	LC40	-	-	-	-	-
2023-027	2460005.73	2023 Mar 2 0534:14	Falcon 9	FT5	209/B1078.1 F208	Dragon Crew-6	Dragon C206.4	-	-	KSC	LC39A	-	-	-	-	-
2023-028	2460007.28	2023 Mar 3 1838:50	Falcon 9	FT5	204/B1061.12 F209	Starlink-77	Starlink Group 2-7	V1.5 2-7 (51 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-029	2460013.30	2023 Mar 9 1913:28	Falcon 9	FT5	210/B1062.13 F210	OneWeb-3	OneWeb L17	-	-	CC	LC40	-	-	-	-	-
2023-033	2460018.52	2023 Mar 15 0030:42	Falcon 9	FT5	213/B1073.7 F211	Dragon CRS-27	Dragon C209.3	-	-	KSC	LC39A	-	-	-	-	-
2023-037	2460021.31	2023 Mar 17 1926:40	Falcon 9	FT5	211/B1071.8 F212	Starlink-78	Starlink Group 2-8	V1.5 2-8 (52 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-038	2460021.48	2023 Mar 17 2338:00?	Falcon 9	FT5	212/B1069.6 F213	SES-18/19	SES-18/19	-	-	CC	LC40	-	-	-	-	-
2023-042	2460028.15	2023 Mar 24 1543:10	Falcon 9	FT5	217/B1067.10 F214	Starlink-79	Starlink Group 5-5	V1.5 5-5 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-046	2460033.33	2023 Mar 29 2001:00	Falcon 9	FT5	215/B1077.4 F215	Starlink-80	Starlink Group 5-10	V1.5 5-10 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-050	2460037.10	2023 Apr 2 1429	Falcon 9	FT5	216/B1075.2 F216	SDA-0A	SDA-0A	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-052	2460041.69	2023 Apr 7 0430:00	Falcon 9	FT5	218/B1076.4 F217	Intelsat IS-40e/TEMPO	IS-40e	-	-	CC	LC40	-	-	-	-	-
2023-054	2460049.78	2023 Apr 15 0647:39	Falcon 9	FT5	219/B1063.10 F218	Transporter-7	Transporter-7	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-056	2460054.10	2023 Apr 19 1431:10	Falcon 9	FT5	220/B1073.8 F219	Starlink-81	Starlink Group 6-2	V2M 6-2 (21 Ku)	-	CC	LC40	-	-	-	-	-
2023-058	2460062.07	2023 Apr 27 1340:50	Falcon 9	FT5	214/B1061.13 F220	Starlink-82	Starlink Group 3-5	V1.5 3-5 (46 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-059	2460063.42	2023 Apr 28 2212	Falcon 9	FT5	221/B1078.2 F221	O3b mPOWER 3/4	O3b mPOWER 3/4	-	-	CC	LC40	-	-	-	-	-
2023-060	2460065.52	2023 May 1 0026	Falcon Heavy	-	006/B1068.1	Viasat-3.1	Viasat-3.1/Arcturus	B1052.8,B1053.3	-	KSC	LC39A	-	-	-	-	-
2023-061	2460068.81	2023 May 4 0731:00	Falcon 9	FT5	222/B1069.7 F222	Starlink-83	Starlink Group 5-6	V1.5 5-6 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-064	2460075.34	2023 May 10 2009:00	Falcon 9	FT5	223/B1075.3 F223	Starlink-84	Starlink Group 2-9	V1.5 2-9 (51 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-065	2460078.71	2023 May 14 0503:30	Falcon 9	FT5	225/B1067.11 F224	Starlink-85	Starlink Group 5-9	V1.5 5-9 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-067	2460083.76	2023 May 19 0619:30	Falcon 9	FT5	227/B1076.5 F225	Starlink-86	Starlink Group 6-3	V2M 6-3 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-068	2460085.05	2023 May 20 1316:33	Falcon 9	FT5	226/B1063.11 F226	Iridium-OneWeb	OneWeb L19/Iridium	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-070	2460086.40	2023 May 21 2137:09	Falcon 9	FT5	224/B1080.1 F227	Axiom Ax-2	Dragon C212.2	-	-	KSC	LC39A	-	-	-	-	-
2023-075	2460091.69	2023 May 27 0430	Falcon 9	FT5	228/B1062.14 F228	Badr 8	Arabsat 7B	-	-	CC	LC40	-	-	-	-	-
2023-078	2460095.75	2023 May 31 0602:30	Falcon 9	FT5	229/B1061.14 F229	Starlink-87	Starlink Group 2-10	V1.5 2-10 (52 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-079	2460100.01	2023 Jun 4 1220:00	Falcon 9	FT5	232/B1078.3 F230	Starlink-88	Starlink Group 6-4	V2M 6-4 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-080	2460101.16	2023 Jun 5 1547:00	Falcon 9	FT5	231/B1077.5 F231	Dragon CRS-28	Dragon C208.4	-	-	KSC	LC39A	-	-	-	-	-
2023-083	2460107.80	2023 Jun 12 0710:50	Falcon 9	FT5	230/B1073.9 F232	Starlink-89	Starlink Group 5-11	V1.5 5-11 (52 Ku)	-	CC	LC40	-	-	-	-	-
2023-084	2460108.40	2023 Jun 12 2135:00	Falcon 9	FT5	233/B1071.9 F233	Transporter-8	Transporter-8	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-086	2460114.43	2023 Jun 18 2221	Falcon 9	FT5	235/B1067.12 F234	Satria	Satria	-	-	CC	LC40	-	-	-	-	-
2023-088	2460117.80	2023 Jun 22 0719:00	Falcon 9	FT5	236/B1075.4 F235	Starlink-90	Starlink Group 5-7	V1.5 5-7 (47 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-090	2460119.15	2023 Jun 23 1535:10	Falcon 9	FT5	234/B1069.8 F236	Starlink-91	Starlink Group 5-12	V1.5 5-12 (56 Ku)	-	CC	LC40	-	-	-	-	-
2023-092	2460127.13	2023 Jul 1 1512	Falcon 9	FT5	238/B1080.2 F237	Euclid	Euclid	-	-	CC	LC40	-	-	-	-	-
2023-094	2460133.31	2023 Jul 7 1929:50	Falcon 9	FT5	239/B1063.12 F238	Starlink-92	Starlink Group 5-13	V1.5 5-13 (48 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-096	2460135.67	2023 Jul 10 0358:50	Falcon 9	FT5	240/B1058.16 F239	Starlink-93	Starlink Group 6-5	V2M 6-5 (22 Ku)	-	CC	LC40	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
							Launch									
2023-099	2460141.66	2023 Jul 16 0350:00	Falcon 9	FT5	237/B1060.16 F240	Starlink-94	Starlink Group 5-15	V1.5 5-15 (54 Ku)	-	CC	LC40	-	-	-	-	-
2023-102	2460145.67	2023 Jul 20 0409:30	Falcon 9	FT5	241/B1071.10 F241	Starlink-95	Starlink Group 6-15	V2M 6-15 (15 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-105	2460149.54	2023 Jul 24 0050:30	Falcon 9	FT5	242/B1076.6 F242	Starlink-96	Starlink Group 6-6	V2M 6-6 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-107	2460153.67	2023 Jul 28 0401:10	Falcon 9	FT5	243/B1062.15 F243	Starlink-97	Starlink Group 6-7	V2M 6-7 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-108	2460154.63	2023 Jul 29 0304	Falcon Heavy	-	007/B1074.1	Jupiter 3	Jupiter 3/Echostar 24	B1064.3,B1065.3	-	KSC	LC39A	-	-	-	-	-
2023-112	2460159.71	2023 Aug 3 0500	Falcon 9	FT5	245/B1077.6 F244	Galaxy 37	Galaxy 37	-	-	CC	LC40	-	-	-	-	-
2023-113	2460163.61	2023 Aug 7 0241:10	Falcon 9	FT5	244/B1078.4 F245	Starlink-98	Starlink Group 6-8	V2M 6-8 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-115	2460164.66	2023 Aug 8 0357:00	Falcon 9	FT5	247/B1075.5 F246	Starlink-99	Starlink Group 6-20	V2M 6-20 (15 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-119	2460167.72	2023 Aug 11 0517:40	Falcon 9	FT5	246/B1069.9 F247	Starlink-100	Starlink Group 6-9	V2M 6-9 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-122	2460173.65	2023 Aug 17 0336:50	Falcon 9	FT5	248/B1067.13 F248	Starlink-101	Starlink Group 6-10	V2M 6-10 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-124	2460178.90	2023 Aug 22 0937:30	Falcon 9	FT5	250/B1061.15 F249	Starlink-102	Starlink Group 7-1	V2M 7-1 (21 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-128	2460182.81	2023 Aug 26 0727:27	Falcon 9	FT5	249/B1081.1 F250	Dragon Crew-7	Dragon C210.3	-	-	KSC	LC39A	-	-	-	-	-
2023-129	2460183.55	2023 Aug 27 0105:40	Falcon 9	FT5	251/B1080.3 F251	Starlink-103	Starlink Group 6-11	V2M 6-11 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-131	2460188.60	2023 Sep 1 0221:50	Falcon 9	FT5	252/B1077.7 F252	Starlink-104	Starlink Group 6-13	V2M 6-13 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-133	2460190.10	2023 Sep 2 1425	Falcon 9	FT5	253/B1063.13 F253	SDA-0B	SDA-0B	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-134	2460191.62	2023 Sep 4 0247:20	Falcon 9	FT5	254/B1073.10 F254	Starlink-105	Starlink Group 6-12	V2M 6-12 (21 Ku)	-	KSC	LC39A	-	-	-	-	-
2023-138	2460196.63	2023 Sep 9 0312:50	Falcon 9	FT5	255/B1076.7 F255	Starlink-106	Starlink Group 6-14	V2M 6-14 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-141	2460199.79	2023 Sep 12 0657:50	Falcon 9	FT5	256/B1071.11 F256	Starlink-107	Starlink Group 7-2	V2M 7-2 (21 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-144	2460203.65	2023 Sep 16 0338:20	Falcon 9	FT5	257/B1078.5 F257	Starlink-108	Starlink Group 6-16	V2M 6-16 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-146	2460207.65	2023 Sep 20 0338:10	Falcon 9	FT5	258/B1058.17 F258	Starlink-109	Starlink Group 6-17	V2M 6-17 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-147	2460211.65	2023 Sep 24 0338:30	Falcon 9	FT5	259/B1060.17 F259	Starlink-110	Starlink Group 6-18	V2M 6-18 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-148	2460212.87	2023 Sep 25 0848:20	Falcon 9	FT5	260/B1075.6 F260	Starlink-111	Starlink Group 7-3	V2M 7-3 (21 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-151	2460217.58	2023 Sep 30 0200:00	Falcon 9	FT5	261/B1069.10 F261	Starlink-112	Starlink Group 6-19	V2M 6-19 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-153	2460222.73	2023 Oct 5 0536:30	Falcon 9	FT5	262/B1076.8 F262	Starlink-113	Starlink Group 6-21	V2M 6-21 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-156	2460226.82	2023 Oct 9 0743	Falcon 9	FT5	263/B1063.14 F263	Starlink-114	Starlink Group 7-4	V2M 7-4 (21 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-157	2460231.10	2023 Oct 13 1419:43	Falcon Heavy	-	008/B1079.1	Psyche	Psyche	B1064.4,B1065.4	-	KSC	LC39A	-	-	-	-	-
2023-158	2460231.46	2023 Oct 13 2301:10	Falcon 9	FT5	264/B1067.14 F264	Starlink-115	Starlink Group 6-22	V2M 6-22 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-160	2460235.53	2023 Oct 18 0039	Falcon 9	FT5	265/B1062.16 F265	Starlink-116	Starlink Group 6-23	V2M 6-23 (22 Ku)	-	CC	LC40	-	-	-	-	-
2023-161	2460238.85	2023 Oct 21 0823:00	Falcon 9	FT5	266/B1061.16 F266	Starlink-117	Starlink Group 7-5	V2M 7-5 (21 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-162	2460239.60	2023 Oct 22 0217:00	Falcon 9	FT5	267/B1080.4 F267	Starlink-118	Starlink Group 6-24	V2M 6-24 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-166	2460246.88	2023 Oct 29 0900:00	Falcon 9	FT5	268/B1075.7 F268	Starlink-119	Starlink Group 7-6	V2M 7-6 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-167	2460248.47	2023 Oct 30 2320:30	Falcon 9	FT5	269/B1077.8 F269	Starlink-120	Starlink Group 6-25	V2M 6-25 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-170	2460252.53	2023 Nov 4 0037:20	Falcon 9	FT5	271/B1058.18 F270	Starlink-121	Starlink Group 6-26	V2M 6-26 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-171	2460256.71	2023 Nov 8 0505:30	Falcon 9	FT5	273/B1073.11 F271	Starlink-122	Starlink Group 6-27	V2M 6-27 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-173	2460258.56	2023 Nov 10 0128:14	Falcon 9	FT5	270/B1081.2 F272	Dragon CRS-29	Dragon C211.2	-	-	KSC	LC39A	-	-	-	-	-
2023-174	2460260.28	2023 Nov 11 1849:00	Falcon 9	FT5	272/B1071.12 F273	Transporter-9	Transporter-9	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-175	2460261.38	2023 Nov 12 2108	Falcon 9	FT5	274/B1076.9 F274	O3b mPOWER 5/6	O3b mPOWER 5/6	-	-	CC	LC40	-	-	-	-	-
2023-177	2460266.71	2023 Nov 18 0505:50	Falcon 9	FT5	275/B1069.11 F275	Starlink-123	Starlink Group 6-28	V2M 6-28 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-178	2460268.94	2023 Nov 20 1030:40	Falcon 9	FT5	276/B1063.15 F276	Starlink-124	Starlink Group 7-7	V2M 7-7 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-180	2460270.82	2023 Nov 22 0747:40	Falcon 9	FT5	277/B1067.15 F277	Starlink-125	Starlink Group 6-29	V2M 6-29 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-183	2460276.68	2023 Nov 28 0420:00	Falcon 9	FT5	278/B1062.17 F278	Starlink-126	Starlink Group 6-30	V2M 6-30 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-185	2460280.26	2023 Dec 1 1819	Falcon 9	FT5	279/B1061.17 F279	Project 425	Korea 425	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-186	2460281.67	2023 Dec 3 0400:50	Falcon 9	FT5	280/B1078.6 F280	Starlink-127	Starlink Group 6-31	V2M 6-31 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-191	2460285.71	2023 Dec 7 0507:30	Falcon 9	FT5	281/B1077.9 F281	Starlink-128	Starlink Group 6-33	V2M 6-33 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-192	2460286.84	2023 Dec 8 0803	Falcon 9	FT5	282/B1071.13 F282	Starlink-129	Starlink Group 7-8	V2M 7-8 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2023-200	2460297.67	2023 Dec 19 0401:00	Falcon 9	FT5	283/B1081.3 F283	Starlink-130	Starlink Group 6-34	V2M 6-34 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-203	2460301.73	2023 Dec 23 0533:00	Falcon 9	FT5	286/B1058.19 F284	Starlink-131	Starlink Group 6-32	V2M 6-32 (23 Ku)	-	CC	LC40	-	-	-	-	-
2023-204	2460303.05	2023 Dec 24 1311:00	Falcon 9	FT5	287/B1075.8 F285	SARAH-2	SARah-2/3	-	-	VSFBS	SLC4E	-	-	-	-	-
2023-210	2460307.55	2023 Dec 29 0107	Falcon Heavy	-	009/B1084.1	X-37B OTV FLT-7	X-37B No. 2/USSF-52	B1064.5,B1065.5	-	KSC	LC39A	-	-	-	-	-
2023-211	2460307.67	2023 Dec 29 0401:40	Falcon 9	FT5	288/B1069.12 F286	Starlink-132	Starlink Group 6-36	V2M 6-36 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-002	2460312.66	2024 Jan 3 0344:20	Falcon 9	FT5	284/B1082.1 F287	Starlink-133	Starlink Group 7-9	V2M 7-9 (6 DTC,15 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-003	2460313.46	2024 Jan 3 2304	Falcon 9	FT5	285/B1076.10 F288	Ovzon-3	Ovzon-3	-	-	CC	LC40	-	-	-	-	-
2024-005	2460317.44	2024 Jan 7 2235:40	Falcon 9	FT5	290/B1067.16 F289	Starlink-134	Starlink Group 6-35	V2M 6-35 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-011	2460323.87	2024 Jan 14 0859:30	Falcon 9	FT5	289/B1061.18 F290	Starlink-135	Starlink Group 7-10	V2M 7-10 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-012	2460324.58	2024 Jan 15 0152:00	Falcon 9	FT5	291/B1073.12 F291	Starlink-136	Starlink Group 6-37	V2M 6-37 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-014	2460328.41	2024 Jan 18 2149:11	Falcon 9	FT5	295/B1080.5 F292	Axiom Ax-3	Dragon C212.3	-	-	KSC	LC39A	-	-	-	-	-
2024-017	2460333.52	2024 Jan 24 0035:00	Falcon 9	FT5	292/B1063.16 F293	Starlink-137	Starlink Group 7-11	V2M 7-11 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-019	2460338.55	2024 Jan 29 0110:00	Falcon 9	FT5	293/B1062.18 F294	Starlink-138	Starlink Group 6-38	V2M 6-38 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-020	2460338.75	2024 Jan 29 0557:20	Falcon 9	FT5	294/B1075.9 F295	Starlink-139	Starlink Group 7-12	V2M 7-12 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-021	2460340.21	2024 Jan 30 1707:21	Falcon 9	FT5	296/B1077.10 F296	Cygnus NG-20	Cygnus NG-20	-	-	CC	LC40	-	-	-	-	-
2024-025	2460348.77	2024 Feb 8 0633:32	Falcon 9	FT5	298/B1081.4 F297	PACE	PACE	-	-	CC	LC40	-	-	-	-	-
2024-027	2460350.52	2024 Feb 10 0034:00	Falcon 9	FT5	297/B1071.14 F298	Starlink-140	Starlink Group 7-13	V2M 7-13 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-028	2460355.44	2024 Feb 14 2230:00	Falcon 9	FT5	303/B1078.7 F299	USSF-124	HBTSS/SDA-0C	-	-	CC	LC40	-	-	-	-	-
2024-030	2460355.75	2024 Feb 15 0605:37	Falcon 9	FT5	301/B1060.18 F300	IM-1	IM-1	-	-	KSC	LC39A	-	-	-	-	-
2024-031	2460356.40	2024 Feb 15 2134:30	Falcon 9	FT5	299/B1082.2 F301	Starlink-141	Starlink Group 7-14	V2M 7-14 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-035	2460361.34	2024 Feb 20 2011	Falcon 9	FT5	305/B1067.17 F302	Merah Putih 2	HTS 113BT	-	-	CC	LC40	-	-	-	-	-
2024-036	2460363.67	2024 Feb 23 0411:50	Falcon 9	FT5	302/B1061.19 F303	Starlink-142	Starlink Group 7-15	V2M 7-15 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-038	2460366.42	2024 Feb 25 2206:00	Falcon 9	FT5	300/B1069.13 F304	Starlink-143	Starlink Group 6-39	V2M 6-39 (24 Ku)	-	CC	LC40	-	-	-	-	-
2024-041	2460370.15	2024 Feb 29 1530:00	Falcon 9	FT5	306/B1076.11 F305	Starlink-144	Starlink Group 6-40	V2M 6-40 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-042	2460373.66	2024 Mar 4 0353:38	Falcon 9	FT5	304/B1083.1 F306	Dragon Crew-8	Dragon C206.5	-	-	KSC	LC39A	-	-	-	-	-
2024-043	2460374.42	2024 Mar 4 2205:00	Falcon 9	FT5	307/B1081.5 F307	Transporter-10	Transporter-10	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-044	2460374.50	2024 Mar 4 2356:00	Falcon 9	FT5	308/B1073.13 F308	Starlink-145	Starlink Group 6-41	V2M 6-41 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-045	2460380.46	2024 Mar 10 2305:00	Falcon 9	FT5	309/B1077.11 F309	Starlink-146	Starlink Group 6-43	V2M 6-43 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-046	2460380.67	2024 Mar 11 0409:00	Falcon 9	FT5	312/B1063.17 F310	Starlink-147	Starlink Group 7-17	V2M 7-17 (23 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-049	2460385.51	2024 Mar 16 0021:00	Falcon 9	FT5	313/B1062.19 F311	Starlink-148	Starlink Group 6-44	-	-	KSC	LC39A	-	-	-	-	-
2024-050	2460388.60	2024 Mar 19 0228:00	Falcon 9	FT5	310/B1075.10 F312	Starlink-149	Starlink Group 7-16	V2M 7-16 (20 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-054	2460391.37	2024 Mar 21 2055:09	Falcon 9	FT5	311/B1080.6 F313	Dragon CRS-30	Dragon C209.4	-	-	CC	LC40	-	-	-	-	-
2024-056	2460393.63	2024 Mar 24 0309:00	Falcon 9	FT5	314/B1060.19 F314	Starlink-150	Starlink Group 6-42	V2M 6-42 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-057	2460395.49	2024 Mar 25 2342:00	Falcon 9	FT5	321/B1078.8 F315	Starlink-151	Starlink Group 6-46	V2M 6-46 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-059	2460400.41	2024 Mar 30 2152:00	Falcon 9	FT5	316/B1076.12 F316	EUTELSAT 36D	EUTELSAT 36D	-	-	KSC	LC39A	-	-	-	-	-
2024-060	2460400.56	2024 Mar 31 0130:00	Falcon 9	FT5	318/B1067.18 F317	Starlink-152	Starlink Group 6-45	V2M 6-45 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-062	2460402.60	2024 Apr 2 0230:00	Falcon 9	FT5	317/B1071.15 F318	Starlink-153	Starlink Group 7-18	V2M 7-18 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-064	2460405.88	2024 Apr 5 0912:00	Falcon 9	FT5	327/B1069.14 F319	Starlink-154	Starlink Group 6-47	V2M 6-47 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-065	2460407.60	2024 Apr 7 0225:00	Falcon 9	FT5	319/B1081.6 F320	Starlink-155	Starlink Group 8-1	V2M 8-1 (6 DTC,15 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-066	2460408.47	2024 Apr 7 2316	Falcon 9	FT5	322/B1073.14 F321	Bandwagon-1	Bandwagon-1	-	-	KSC	LC39A	-	-	-	-	-
2024-068	2460410.74	2024 Apr 10 0540:00	Falcon 9	FT5	323/B1083.2 F322	Starlink-156	Starlink Group 6-48	V2M 6-48 (23 Ku)	-	CC	LC40	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-070	2460412.10	2024 Apr 11 1425	Falcon 9	FT5	320/B1082.3 F323	WSF-M SV1	USSF-62	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-071	2460413.57	2024 Apr 13 0140:00	Falcon 9	FT5	326/B1062.20 F324	Starlink-157	Starlink Group 6-49	V2M 6-49 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-073	2460418.39	2024 Apr 17 2126:00	Falcon 9	FT5	325/B1077.12 F325	Starlink-158	Starlink Group 6-51	V2M 6-51 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-074	2460419.44	2024 Apr 18 2240:00	Falcon 9	FT5	328/B1080.7 F326	Starlink-159	Starlink Group 6-52	V2M 6-52 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-076	2460424.43	2024 Apr 23 2217:00	Falcon 9	FT5	329/B1078.9 F327	Starlink-160	Starlink Group 6-53	V2M 6-53 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-079	2460428.52	2024 Apr 28 0034	Falcon 9	FT5	332/B1060.20 F328	Galileo FM25/FM27	Galileo L12	-	-	KSC	LC39A	-	-	-	-	-
2024-080	2460429.42	2024 Apr 28 2208:00	Falcon 9	FT5	331/B1076.13 F329	Starlink-161	Starlink Group 6-54	V2M 6-54 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-081	2460433.27	2024 May 2 1836	Falcon 9	FT5	324/B1061.20 F330	WV Legion 1/2	Maxar 1	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-082	2460433.61	2024 May 3 0237:00	Falcon 9	FT5	333/B1067.19 F331	Starlink-162	Starlink Group 6-55	V2M 6-55 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-084	2460437.26	2024 May 6 1814:00	Falcon 9	FT5	335/B1069.15 F332	Starlink-163	Starlink Group 6-57	V2M 6-57 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-086	2460439.28	2024 May 8 1842:00	Falcon 9	FT5	334/B1083.3 F333	Starlink-164	Starlink Group 6-56	V2M 6-56 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-088	2460440.69	2024 May 10 0430:00	Falcon 9	FT5	330/B1082.4 F334	Starlink-165	Starlink Group 8-2	V2M 8-2 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-090	2460443.54	2024 May 13 0053:00	Falcon 9	FT5	336/B1073.15 F335	Starlink-166	Starlink Group 6-58	V2M 6-58 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-091	2460445.28	2024 May 14 1839:00	Falcon 9	FT5	337/B1063.18 F336	Starlink-167	Starlink Group 8-7	V2M 8-7 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-093	2460448.52	2024 May 18 0032:00	Falcon 9	FT5	338/B1062.21 F337	Starlink-168	Starlink Group 6-59	V2M 6-59 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-096	2460452.83	2024 May 22 0800	Falcon 9	FT5	339/B1071.16 F338	NROL-146	NRO Starshield A1	NRO PA01 (21)	-	VSFBS	SLC4E	-	-	-	-	-
2024-097	2460453.61	2024 May 23 0235	Falcon 9	FT5	340/B1080.8 F339	Starlink-169	Starlink Group 6-62	V2M 6-62 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-098	2460454.61	2024 May 24 0245	Falcon 9	FT5	341/B1077.13 F340	Starlink-170	Starlink Group 6-63	V2M 6-63 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-100	2460459.10	2024 May 28 1424	Falcon 9	FT5	342/B1078.10 F341	Starlink-171	Starlink Group 6-60	V2M 6-60 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-101	2460459.43	2024 May 28 2220	Falcon 9	FT5	343/B1081.7 F342	EarthCARE	EarthCARE	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-106	2460462.61	2024 Jun 1 0237:00	Falcon 9	FT5	344/B1076.14 F343	Starlink-172	Starlink Group 6-64	V2M 6-64 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-107	2460466.59	2024 Jun 5 0216:00	Falcon 9	FT5	356/B1067.20 F344	Starlink-173	Starlink Group 8-5	V2M 8-8 (13 DTC,7 Ku)	-	CC	LC40	-	-	-	-	-
2024-111	2460469.58	2024 Jun 8 0156:00	Falcon 9	FT5	348/B1069.16 F345	Starlink-174	Starlink Group 10-1	V2M 10-1 (22 Ku)	-	CC	LC40	-	-	-	-	-
2024-112	2460470.04	2024 Jun 8 1258	Falcon 9	FT5	345/B1061.21 F346	Starlink-175	Starlink Group 8-8	V2M 8-8 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-113	2460480.65	2024 Jun 19 0340:00	Falcon 9	FT5	351/B1082.5 F347	Starlink-176	Starlink Group 9-1	V2M 9-1 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-115	2460482.40	2024 Jun 20 2135	Falcon 9	FT5	352/B1080.9 F348	Astra 1P	Astra 1P	-	-	CC	LC40	-	-	-	-	-
2024-117	2460485.22	2024 Jun 23 1715:00	Falcon 9	FT5	350/B1078.11 F349	Starlink-177	Starlink Group 10-2	V2M 10-2 (22 Ku)	-	CC	LC40	-	-	-	-	-
2024-118	2460485.66	2024 Jun 24 0347:00	Falcon 9	FT5	353/B1075.11 F350	Starlink-178	Starlink Group 9-2	V2M 9-2 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-119	2460487.39	2024 Jun 25 2126	Falcon Heavy	-	010/B1087.1	GOES U	GOES U	B1072.1,B1086.1	-	KSC	LC39A	-	-	-	-	-
2024-120	2460488.97	2024 Jun 27 1114	Falcon 9	FT5	354/B1062.22 F351	Starlink-179	Starlink Group 10-3	V2M 10-3 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-121	2460490.63	2024 Jun 29 0314	Falcon 9	FT5	347/B1081.8 F352	NROL-186	NRO Starshield A2	NRO PA02 (21)	-	VSFBS	SLC4E	-	-	-	-	-
2024-124	2460494.87	2024 Jul 3 0855:00	Falcon 9	FT5	365/B1073.16 F353	Starlink-180	Starlink Group 8-9	V2M 8-9 (13 DTC,7 Ku)	-	CC	LC40	-	-	-	-	-
2024-127	2460500.48	2024 Jul 8 2330	Falcon 9	FT5	346/B1076.15 F354	Turksat 6A	Turksat 6A	-	-	CC	LC40	-	-	-	-	-
2024-129	2460503.61	2024 Jul 12 0235:00	Falcon 9	FT5	355/B1063.19 F355	Starlink-181	Starlink Group 9-3	V2M 9-3 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-131	2460518.74	2024 Jul 27 0545:00	Falcon 9	FT5	362/B1069.17 F356	Starlink-182	Starlink Group 10-9	V2M 10-9 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-132	2460519.71	2024 Jul 28 0509:00	Falcon 9	FT5	358/B1077.14 F357	Starlink-183	Starlink Group 10-4	V2M 10-4 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-133	2460519.89	2024 Jul 28 0922:10	Falcon 9	FT5	363/B1071.17 F358	Starlink-184	Starlink Group 9-4	V2M 9-4 (13 DTC,8 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-136	2460524.71	2024 Aug 2 0501:00	Falcon 9	FT5	360/B1078.12 F359	Starlink-185	Starlink Group 10-6	V2M 10-6 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-138	2460526.81	2024 Aug 4 0724:00	Falcon 9	FT5	364/B1082.6 F360	Starlink-186	Starlink Group 11-1	V2M 11-1 (23 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-139	2460527.13	2024 Aug 4 1502:53	Falcon 9	FT5	367/B1080.10 F361	Cygnus NG-21	Cygnus NG-21	-	-	CC	LC40	-	-	-	-	-
2024-141	2460533.03	2024 Aug 10 1250:00	Falcon 9	FT5	366/B1067.21 F362	Starlink-187	Starlink Group 8-3	V2M 8-3 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2024-143	2460534.58	2024 Aug 12 0202:00	Falcon 9	FT5	361/B1061.22 F363	ASBM	ASBM-1/2	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-144	2460534.94	2024 Aug 12 1037:00	Falcon 9	FT5	357/B1073.17 F364	Starlink-188	Starlink Group 10-7	V2M 10-7 (23 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-146	2460538.04	2024 Aug 15 1300:00	Falcon 9	FT5	368/B1076.16 F365	WV Legion 3/4	Maxar-2	-	-	CC	LC40	-	-	-	-	-
2024-149	2460539.29	2024 Aug 16 1856:00	Falcon 9	FT5	369/B1075.12 F366	Transporter-11	Transporter-11	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-150	2460543.06	2024 Aug 20 1320:00	Falcon 9	FT5	359/B1085.1 F367	Starlink-189	Starlink Group 10-5	V2M 10-5 (22 Ku)	-	CC	LC40	-	-	-	-	-
2024-152	2460550.83	2024 Aug 28 0748:00	Falcon 9	FT5	371/B1062.23 F368	Starlink-190	Starlink Group 8-6	V2M 8-6 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2024-154	2460553.82	2024 Aug 31 0743:00	Falcon 9	FT5	372/B1069.18 F369	Starlink-191	Starlink Group 8-10	V2M 8-10 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2024-155	2460553.87	2024 Aug 31 0848:00	Falcon 9	FT5	370/B1081.9 F370	Starlink-192	Starlink Group 9-5	V2M 9-5 (13 DTC,8 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-158	2460559.15	2024 Sep 5 1533:00	Falcon 9	FT5	374/B1077.15 F371	Starlink-193	Starlink Group 8-11	V2M 8-11 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2024-160	2460559.64	2024 Sep 6 0320	Falcon 9	FT5	373/B1063.20 F372	NROL-113	NRO Starshield A3	NRO PA03 (21)	-	VSFBS	SLC4E	-	-	-	-	-
2024-161	2460563.89	2024 Sep 10 0923:49	Falcon 9	FT5	349/B1083.4 F373	Polaris Dawn	Dragon C207.3	-	-	KSC	LC39A	-	-	-	-	-
2024-163	2460565.87	2024 Sep 12 0852	Falcon 9	FT5	377/B1078.13 F374	BlueBird 1-1	BlueBird 1-1	-	-	CC	LC40	-	-	-	-	-
2024-164	2460566.57	2024 Sep 13 0145:00	Falcon 9	FT5	375/B1071.18 F375	Starlink-194	Starlink Group 9-6	V2M 9-6 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-167	2460571.45	2024 Sep 17 2250	Falcon 9	FT5	376/B1067.22 F376	Galileo FM26/FM32	Galileo L13	-	-	CC	LC40	-	-	-	-	-
2024-171	2460574.08	2024 Sep 20 1350:00	Falcon 9	FT5	378/B1075.13 F377	Starlink-195	Starlink Group 9-17	V2M 9-17 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-175	2460578.67	2024 Sep 25 0401:00	Falcon 9	FT5	380/B1081.10 F378	Starlink-196	Starlink Group 9-8	V2M 9-8 (13 DTC, 7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-178	2460582.22	2024 Sep 28 1717:20	Falcon 9	FT5	379/B1085.2 F379	Dragon Crew-9	Dragon C212.4	-	-	CC	LC40	-	-	-	-	-
2024-180	2460591.12	2024 Oct 7 1452	Falcon 9	FT5	385/B1061.23 F380	Hera	Hera	-	-	CC	LC40	-	-	-	-	-
2024-182	2460598.17	2024 Oct 14 1606:00	Falcon Heavy	-	011/B1089.1	Europa Clipper	Europa Clipper	B1064.6,B1065.6	-	KSC	LC39A	-	-	-	-	-
2024-183	2460598.76	2024 Oct 15 0610	Falcon 9	FT5	381/B1080.11 F381	Starlink-197	Starlink Group 10-10	V2M 10-10 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-184	2460598.85	2024 Oct 15 0821	Falcon 9	FT5	389/B1071.19 F382	Starlink-198	Starlink Group 9-7	V2M 9-7 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-187	2460602.48	2024 Oct 18 2331	Falcon 9	FT5	388/B1076.17 F383	Starlink-199	Starlink Group 8-19	V2M 8-19 (13 DTC,7 Ku)	-	CC	LC40	-	-	-	-	-
2024-188	2460603.72	2024 Oct 20 0513	Falcon 9	FT5	384/B1082.7 F384	OneWeb L20	OneWeb L20	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-191	2460607.41	2024 Oct 23 2147:00	Falcon 9	FT5	383/B1073.18 F385	Starlink-200	Starlink Group 6-61	V2M 6-61 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-192	2460608.22	2024 Oct 24 1714	Falcon 9	FT5	382/B1063.21 F386	NROL-167	NRO Starshield A4	NRO PA04 (17)	-	VSFBS	SLC4E	-	-	-	-	-
2024-193	2460610.41	2024 Oct 26 2147:00	Falcon 9	FT5	391/B1069.19 F387	Starlink-201	Starlink Group 10-8	V2M 10-8 (22 Ku)	-	CC	LC40	-	-	-	-	-
2024-195	2460614.00	2024 Oct 30 1207:00	Falcon 9	FT5	392/B1075.14 F388	Starlink-202	Starlink Group 9-9	V2M 9-9 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-196	2460614.38	2024 Oct 30 2110	Falcon 9	FT5	393/B1078.14 F389	Starlink-203	Starlink Group 10-13	V2M 10-13 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-200	2460619.60	2024 Nov 5 0229:30	Falcon 9	FT5	390/B1083.5 F390	Dragon CRS-31	Dragon C208.5	-	-	KSC	LC39A	-	-	-	-	-
2024-202	2460622.35	2024 Nov 7 2019:00	Falcon 9	FT5	395/B1085.3 F391	Starlink-204	Starlink Group 6-77	V2M 6-77 (23 Ku)	-	CC	LC40	-	-	-	-	-
2024-204	2460623.76	2024 Nov 9 0614:00	Falcon 9	FT5	394/B1081.11 F392	Starlink-205	Starlink Group 9-10	V2M 9-10 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-206	2460626.22	2024 Nov 11 1722	Falcon 9	FT5	398/B1067.23 F393	Koreasat-6A	Koreasat-6A	-	-	KSC	LC39A	-	-	-	-	-
2024-207	2460626.39	2024 Nov 11 2128:00	Falcon 9	FT5	397/B1080.12 F394	Starlink-206	Starlink Group 6-69	V2M 6-69 (24 Ku)	-	CC	LC40	-	-	-	-	-
2024-209	2460628.72	2024 Nov 14 0523:00	Falcon 9	FT5	396/B1082.8 F395	Starlink-207	Starlink Group 9-11	V2M 9-11 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-210	2460629.06	2024 Nov 14 1321:00	Falcon 9	FT5	399/B1076.18 F396	Starlink-208	Starlink Group 6-68	V2M 6-68 (24 Ku)	-	CC	LC40	-	-	-	-	-
2024-212	2460632.44	2024 Nov 17 2228	Falcon 9	FT5	400/B1077.16 F397	TD7	Optus X	-	-	KSC	LC39A	-	-	-	-	-
2024-213	2460632.75	2024 Nov 18 0553:00	Falcon 9	FT5	401/B1071.20 F398	Starlink-209	Starlink Group 9-12	V2M 9-12 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-214	2460633.27	2024 Nov 18 1831	Falcon 9	FT5	402/B1073.19 F399	GSAT-20	GSAT-20	-	-	CC	LC40	-	-	-	-	-
2024-216	2460636.17	2024 Nov 21 1607:50	Falcon 9	FT5	387/B1069.20 F400	Starlink-210	Starlink Group 6-66	V2M 6-66 (24 Ku)	-	CC	LC40	-	-	-	-	-
2024-217	2460638.73	2024 Nov 24 0525:30	Falcon 9	FT5	403/B1075.15 F401	Starlink-211	Starlink Group 9-13	V2M 9-13 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-220	2460639.92	2024 Nov 25 1002:20	Falcon 9	FT5	404/B1080.13 F402	Starlink-212	Starlink Group 12-1	V2MO 12-1 (12 DTC,11 Ku)	-	CC	LC40	-	-	-	-	-
2024-222	2460641.70	2024 Nov 27 0441:30	Falcon 9	FT5	405/B1078.15 F403	Starlink-213	Starlink Group 6-76	V2M 6-76 (24 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-224	2460644.71	2024 Nov 30 0500:00	Falcon 9	FT5	315/B1083.6 F404	Starlink-214	Starlink Group 6-65	V2M 6-65 (24 Ku)	-	CC	LC40	-	-	-	-	-
2024-225	2460644.84	2024 Nov 30 0810:00	Falcon 9	FT5	406/B1088.1 F405	NROL-126/Starlink-215	NRO St B2/NRO PA05	V2M 15-0 (PA05,20 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-229	2460648.93	2024 Dec 4 1013:10	Falcon 9	FT5	408/B1067.24 F406	Starlink-216	Starlink Group 6-70	V2M 6-70 (24 Ku)	-	CC	LC40	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-231	2460649.63	2024 Dec 5 0305:00	Falcon 9	FT5	407/B1081.12 F407	Starlink-217	Starlink Group 9-14	V2M 9-14 (13 DTC,7 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-234	2460650.17	2024 Dec 5 1610	Falcon 9	FT5	409/B1076.19 F408	SXM-9	SXM-9	-	-	KSC	LC39A	-	-	-	-	-
2024-237	2460652.72	2024 Dec 8 0512:30	Falcon 9	FT5	410/B1086.2 F409	Starlink-218	Starlink Group 12-5	V2MO 12-5 (13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2024-239	2460658.41	2024 Dec 13 2155:40	Falcon 9	FT5	386/B1082.9 F410	Starlink-219	Starlink Group 11-2	V2M 11-2 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-242	2460661.54	2024 Dec 17 0052	Falcon 9	FT5	412/B1085.4 F411	GPS III SV07	RRT-1	-	-	CC	LC40	-	-	-	-	-
2024-243	2460662.05	2024 Dec 17 1319	Falcon 9	FT5	413/B1063.22 F412	NROL-149	NRO Starshield A5	NRO PA06 (22)	-	VSFBS	SLC4E	-	-	-	-	-
2024-244	2460662.43	2024 Dec 17 2226	Falcon 9	FT5	411/B1090.1 F413	O3b mPOWER 7/8	O4b mPOWER 7/8	-	-	KSC	LC39A	-	-	-	-	-
2024-247	2460665.98	2024 Dec 21 1134:24	Falcon 9	FT5	416/B1071.21 F414	Bandwagon-2	Bandwagon-2	-	-	VSFBS	SLC4E	-	-	-	-	-
2024-249	2460667.73	2024 Dec 23 0535:30	Falcon 9	FT5	417/B1080.14 F415	Starlink-220	Starlink Group 12-2	V2M 12-2 (13 DTC,8 Ku)	-	KSC	LC39A	-	-	-	-	-
2024-251	2460673.58	2024 Dec 29 0158:30	Falcon 9	FT5	419/B1075.16 F416	Starlink-221	Starlink Group 11-3	V2M 11-3 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2024-252	2460673.71	2024 Dec 29 0500:00	Falcon 9	FT5	414/B1083.7 F417	Astranis	Astranis	-	-	CC	LC40	-	-	-	-	-
2024-254	2460675.74	2024 Dec 31 0539:10	Falcon 9	FT5	420/B1078.16 F418	Starlink-222	Starlink Group 12-6	V2M 12-6 (13 DTC,8 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-001	2460679.56	2025 Jan 4 0127	Falcon 9	FT5	415/B1073.20 F419	Thuraya-4-NGS	Thuraya 4-NGS	-	-	CC	LC40	-	-	-	-	-
2025-003	2460682.36	2025 Jan 6 2043:59	Falcon 9	FT5	421/B1077.17 F420	Starlink-223	Starlink Group 6-71	V2M 6-71 (24 Ku)	-	CC	LC40	-	-	-	-	-
2025-004	2460684.14	2025 Jan 8 1527:00	Falcon 9	FT5	422/B1086.3 F421	Starlink-224	Starlink Group 12-11	V2M 12-11 (13 DTC,8 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-005	2460685.66	2025 Jan 10 0353	Falcon 9	FT5	423/B1071.22 F422	NROL-153	NRO Starshield A6	NRO PA07 (22)	-	VSFBS	SLC4E	-	-	-	-	-
2025-006	2460686.30	2025 Jan 10 1911:20	Falcon 9	FT5	424/B1067.25 F423	Starlink-225	Starlink Group 12-12	V2M 12-12 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-008	2460689.20	2025 Jan 13 1647:09	Falcon 9	FT5	425/B1080.15 F424	Starlink-226	Starlink Group 12-4	V2M 12-4 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-009	2460690.30	2025 Jan 14 1909:00	Falcon 9	FT5	426/B1088.2 F425	Transporter-12	Transporter-12	-	-	VSFBS	SLC4E	-	-	-	-	-
2025-010	2460690.76	2025 Jan 15 0611	Falcon 9	FT5	427/B1085.5 F426	Blue Ghost 1	BG-1/Hakuto-R M2	-	-	KSC	LC39A	-	-	-	-	-
2025-014	2460696.73	2025 Jan 21 0524:50	Falcon 9	FT5	430/B1083.8 F427	Starlink-227	Starlink Group 13-1	V2M 13-1 (21 Ku)+2NRO?	-	KSC	LC39A	-	-	-	-	-
2025-015	2460697.16	2025 Jan 21 1545:50	Falcon 9	FT5	429/B1082.10 F428	Starlink-228	Starlink Group 11-8	V2MO 11-8 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-018	2460700.09	2025 Jan 24 1407	Falcon 9	FT5	431/B1063.23 F429	Starlink-229	Starlink Group 11-6	V2M 11-6 (23 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-019	2460703.42	2025 Jan 27 2205:00	Falcon 9	FT5	433/B1076.20 F430	Starlink-230	Starlink Group 12-7	V2M 12-7 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-021	2460705.57	2025 Jan 30 0134	Falcon 9	FT5	434/B1073.21 F431	Spainsat NG-1	Spainsat NG-1	-	-	KSC	LC39A	-	-	-	-	-
2025-022	2460708.46	2025 Feb 1 2302:10	Falcon 9	FT5	435/B1075.17 F432	Starlink-231	Starlink Group 11-4	V2M 11-4 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-024	2460710.93	2025 Feb 4 1015:00	Falcon 9	FT5	437/B1069.21 F433	Starlink-232	Starlink Group 12-3	V2M 12-3 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-025	2460711.47	2025 Feb 4 2313	Falcon 9	FT5	436/B1086.4 F434	WV Legion 5/6	Maxar-3	-	-	KSC	LC39A	-	-	-	-	-
2025-027	2460715.30	2025 Feb 8 1918:30	Falcon 9	FT5	438/B1078.17 F435	Starlink-233	Starlink Group 12-9	V2M 12-3 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-029	2460717.59	2025 Feb 11 0209:00	Falcon 9	FT5	439/B1071.23 F436	Starlink-234	Starlink Group 11-10	V2M 11-10 (23 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-031	2460718.29	2025 Feb 11 1853:20	Falcon 9	FT5	440/B1077.18 F437	Starlink-235	Starlink Group 12-18	V2M 12-18 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-032	2460721.76	2025 Feb 15 0614:10	Falcon 9	FT5	441/B1067.26 F438	Starlink-236	Starlink Group 12-8	V2M 12-8 (13 DTC,8 Ku)	-	CC	LC40	-	-	-	-	-
2025-034	2460725.47	2025 Feb 18 2321:50	Falcon 9	FT5	432/B1080.16 F439	Starlink-237	Starlink Group 10-12	V2M 10-12 (23 Ku)	-	CC	LC40	-	-	-	-	-
2025-035	2460728.14	2025 Feb 21 1519:00	Falcon 9	FT5	445/B1076.21 F440	Starlink-238	Starlink Group 12-14	V2MO 12-14(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-037	2460729.57	2025 Feb 23 0138:20	Falcon 9	FT5	443/B1082.11 F441	Starlink-239	Starlink Group 15-1	V2M 15-1 (22 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-038	2460733.51	2025 Feb 27 0016:30	Falcon 9	FT5	444/B1083.9 F442	IM-2	IM-2/Odin/LTB/CGEO-1	-	-	KSC	LC39A	-	-	-	-	-
2025-039	2460733.65	2025 Feb 27 0334:20	Falcon 9	FT5	446/B1092.1? F443	Starlink-240	Starlink Group 12-13	V2M 12-13(13 DTC, 8 Ku)	-	CC	LC40	-	-	-	-	-
2025-043	2460737.60	2025 Mar 3 0224:00	Falcon 9	FT5	447/B1086.5 F444	Starlink-241	Starlink Group 12-20	V2M 12-20(13 DTC, 8 Ku)	-	CC	LC40	-	-	-	-	-
2025-047	2460746.63	2025 Mar 12 0310:12	Falcon 9	FT5	xxx/B1088.3 F445	SPHEREX/PUNCH	SPHEREx	-	-	VSFBS	SLC4E	-	-	-	-	-
2025-048	2460747.61	2025 Mar 13 0235:30	Falcon 9	FT5	xxx/B1069.22 F446	Starlink-242	Starlink Group 12-21	V2M 12-21(13 DTC, 8 Ku)	-	CC	LC40	-	-	-	-	-
2025-049	2460749.46	2025 Mar 14 2303:48	Falcon 9	FT5	xxx/B1090.2 F447	Dragon Crew-10	Dragon C210.4	-	-	KSC	LC39A	-	-	-	-	-
2025-052	2460749.78	2025 Mar 15 0643:00	Falcon 9	FT5	xxx/B1081.13 F448	Transporter-13	Transporter-13	-	-	VSFBS	SLC4E	-	-	-	-	-
2025-053	2460749.98	2025 Mar 15 1135:10	Falcon 9	FT5	xxx/B1078.18 F449	Starlink-243	Starlink Group 12-16	V2MO 12-16(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-057	2460753.33	2025 Mar 18 1957:50	Falcon 9	FT5	xxx/B1077.19 F450	Starlink-244	Starlink Group 12-25	V2MO 12-25(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-058	2460755.78	2025 Mar 21 0649	Falcon 9	FT5	xxx/B1088.4 F451	NROL-57	NRO Starshield A7	NRO PA08 (11)	-	VSFBS	SLC4E	-	-	-	-	-
2025-060	2460759.24	2025 Mar 24 1748	Falcon 9	FT5	xxx/B1092.2 F452	NROL-69	INTRUDER?	-	-	CC	LC40	-	-	-	-	-
2025-063	2460761.42	2025 Mar 26 2211:40	Falcon 9	FT5	xxx/B1063.24 F453	Starlink-245	Starlink Group 11-7	V2MO 11-7 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-065	2460766.33	2025 Mar 31 1952:50	Falcon 9	FT5	xxx/B1080.17 F454	Starlink-246	Starlink Group 6-80	V2MO 6-80 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-066	2460766.57	2025 Apr 1 0146	Falcon 9	FT5	xxx/B1085.6 F455	Fram-2	Dragon C207.4	-	-	KSC	LC39A	-	-	-	-	-
2025-069	2460769.54	2025 Apr 4 0102:50	Falcon 9	FT5	xxx/B1088.5 F456	Starlink-247	Starlink Group 11-13	V2MO 11-13 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-070	2460771.63	2025 Apr 6 0307:20	Falcon 9	FT5	xxx/B1078.19 F457	Starlink-248	Starlink Group 6-72	V2MO 6-72 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-071	2460773.46	2025 Apr 7 2306:10	Falcon 9	FT5	xxx/B1093.1 F458	Starlink-249	Starlink Group 11-11	V2MO 11-11 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-074	2460778.02	2025 Apr 12 1225	Falcon 9	FT5	xxx/B1071.24 F459	NROL-192	NRO Starshield A8	NRO PA09 (22)	-	VSFBS	SLC4E	-	-	-	-	-
2025-075	2460778.54	2025 Apr 13 0053:30	Falcon 9	FT5	xxx/B1083.10 F460	Starlink-250	Starlink Group 12-17	V2M 12-17(13 DTC,8 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-076	2460779.67	2025 Apr 14 0400:10	Falcon 9	FT5	xxx/B1067.27 F461	Starlink-251	Starlink Group 6-73	V2MO 6-73 (27 Ku)	-	CC	LC40	-	-	-	-	-
2025-079	2460786.02	2025 Apr 20 1229	Falcon 9	FT5	xxx/B1082.12 F462	NROL-145	NRO Starshield A9	NRO PA10 (22)	-	VSFBS	SLC4E	-	-	-	-	-
2025-080	2460786.84	2025 Apr 21 0815:45	Falcon 9	FT5	xxx/B1092.3 F463	Dragon CRS-32	Dragon C209.5	-	-	KSC	LC39A	-	-	-	-	-
2025-081	2460787.53	2025 Apr 22 0048:34	Falcon 9	FT5	xxx/B1090.3 F464	Bandwagon-3	Bandwagon-3	-	-	CC	LC40	-	-	-	-	-
2025-083	2460790.58	2025 Apr 25 0152:40	Falcon 9	FT5	xxx/B1069.23 F465	Starlink-252	Starlink Group 6-74	V2MO 6-74 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-085	2460793.59	2025 Apr 28 0209:40	Falcon 9	FT5	xxx/B1077.20 F466	Starlink-253	Starlink Group 12-23	V2MO 12-23(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-087	2460794.36	2025 Apr 28 2042:20	Falcon 9	FT5	xxx/B1063.25 F467	Starlink-254	Starlink Group 11-9	V2MO 11-9 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-089	2460794.61	2025 Apr 29 0234:10	Falcon 9	FT5	xxx/B1094.1 F468	Starlink-255	Starlink Group 12-10	V2MO 12-10(13 DTC,10 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-091	2460797.58	2025 May 2 0151:10	Falcon 9	FT5	xxx/B1080.18 F469	Starlink-256	Starlink Group 6-75	V2MO 6-75 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-092	2460799.87	2025 May 4 0854:40	Falcon 9	FT5	xxx/B1078.20 F470	Starlink-257	Starlink Group 6-84	V2MO 6-84 (29 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-093	2460802.55	2025 May 7 0117:20	Falcon 9	FT5	xxx/B1085.7 F471	Starlink-258	Starlink Group 6-93	V2MO 6-93 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-094	2460805.51	2025 May 10 0019:50	Falcon 9	FT5	xxx/B1081.14 F472	Starlink-259	Starlink Group 15-3	V2MO 15-3 (26 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-095	2460805.77	2025 May 10 0628:00	Falcon 9	FT5	xxx/B1083.11 F473	Starlink-260	Starlink Group 6-91	V2MO 6-91 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-098	2460808.55	2025 May 13 0115:10	Falcon 9	FT5	xxx/B1088.6 F474	Starlink-261	Starlink Group 15-4	V2MO 15-4 (26 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-099	2460808.71	2025 May 13 0502:20	Falcon 9	FT5	xxx/B1067.28 F475	Starlink-262	Starlink Group 6-83	V2MO 6-83 (28 Ku)	-	KSC	LC39A	-	-	-	-	-
2025-101	2460810.19	2025 May 14 1638:50	Falcon 9	FT5	xxx/B1090.4 F476	Starlink-263	Starlink Group 6-67	V2MO 6-67 (28 Ku)	-	CC	LC40	-	-	-	-	-
2025-102	2460812.07	2025 May 16 1343:50	Falcon 9	FT5	xxx/B1093.2 F477	Starlink-264	Starlink Group 15-5	V2MO 15-5 (26 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-107	2460816.64	2025 May 21 0319:10	Falcon 9	FT5	xxx/B1095.1 F478	Starlink-265	Starlink Group 12-15	V2MO 12-15(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-110	2460819.44	2025 May 23 2232:20	Falcon 9	FT5	xxx/B1075.18 F479	Starlink-266	Starlink Group 11-16	V2MO 11-16 (27 Ku)	-	VSFBS	SLC4E	-	-	-	-	-
2025-111	2460820.22	2025 May 24 1719:00	Falcon 9	FT5	xxx/B1069.24 F480	Starlink-267	Starlink Group 12-22	V2MO 12-22(13 DTC,10 Ku)	-	CC	LC40	-	-	-	-	-
2025-112	2460823.21	2025 May 27 1657:15	Falcon 9	FT5	xxx/B1082.13 F481	Starlink-268	Starlink Group 17-1	V2MO 17-1	-	VSFBS	SLC4E	-	-	-	-	-
2025-113	2460824.06	2025 May 28 1330:00	Falcon 9	FT5	xxx/B1080.19 F482	Starlink-269	Starlink Group 10-32	V2MO 10-32	-	KSC	LC39A	-	-	-	-	-
2025-116	2460826.23	2025 May 30 1737:59	Falcon 9	FT5	xxx/B1092.4 F483	GPS III SV08	GPS III SV08	RRT-2	-	CC	LC40	-	-	-	-	-
2025-117	2460827.34	2025 May 31 2010:00	Falcon 9	FT5	xxx/B1071.25 F484	Starlink-270	Starlink Group 11-18	V2MO 11-18	-	VSFBS	SLC4E	-	-	-	-	-
2025-119	2460829.70	2025 Jun 3 0443:40	Falcon 9	FT5	xxx/B1077.21 F485	Starlink-271	Starlink Group 12-19	V2MO 12-19	-	CC	LC40	-	-	-	-	-
2025-120	2460831.49	2025 Jun 4 2340:30	Falcon 9	FT5	xxx/B1063.26 F486	Starlink-272	Starlink Group 11-22	V2MO 11-22	-	VSFBS	SLC4E	-	-	-	-	-
2025-122	2460833.70	2025 Jun 7 0454	Falcon 9	FT5	xxx/B1085.8 F487	SXM-10	SXM-10	-	-	CC	LC40	-	-	-	-	-
2025-123	2460835.10	2025 Jun 8 1420:10	Falcon 9	FT5	xxx/B1088.7 F488	Starlink-273	Starlink Group 15-8	V2MO 15-8	-	VSFBS	SLC4E	-	-	-	-	-
2025-124	2460837.05	2025 Jun 10 1305:40	Falcon 9	FT5	xxx/B1083.12 F489	Starlink-274	Starlink Group 12-24	V2MO 12-24	-	CC	LC40	-	-	-	-	-
2025-126	2460839.58	2025 Jun 13 0154:50	Falcon 9	FT5	xxx/B1081.15 F490	Starlink-275	Starlink Group 15-6	V2MO 15-6	-	VSFBS	SLC4E	-	-	-	-	-
2025-127	2460840.15	2025 Jun 13 1529:00	Falcon 9	FT5	xxx/B1078.21 F491	Starlink-276	Starlink Group 12-26	V2MO 12-26	-	CC	LC40	-	-	-	-	-
2025-129	2460843.65	2025 Jun 17 0336:50	Falcon 9	FT5	xxx/B1093.3 F492	Starlink-277	Starlink Group 15-9	V2MO 15-9	-	VSFBS	SLC4E	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2025-130	2460844.75	2025 Jun 18 0555:10	Falcon 9	FT5	xxx/B1090.5 F493	Starlink-278	Starlink Group 10-18	V2MO 10-18	-	CC	LC40	-	-	-	-	-
2025-133	2460849.75	2025 Jun 23 0558:30	Falcon 9	FT5	xxx/B1069.25 F494	Starlink-279	Starlink Group 10-23	V2MO 10-23	-	CC	LC40	-	-	-	-	-
2025-135	2460850.39	2025 Jun 23 2125:00	Falcon 9	FT5	xxx/B1071.26 F495	Transporter-14	Transporter-14	-	-	VSFBS	SLC4E	-	-	-	-	-
2025-136	2460851.77	2025 Jun 25 0631:53	Falcon 9	FT5	xxx/B1094.2 F496	Axiom Ax-4	Dragon C213.1	-	-	KSC	LC39A	-	-	-	-	-
2025-137	2460852.33	2025 Jun 25 1954:50	Falcon 9	FT5	xxx/B1080.20 F497	Starlink-280	Starlink Group 10-16	V2MO 10-16	-	CC	LC40	-	-	-	-	-
2025-139	2460854.68	2025 Jun 28 0426:00	Falcon 9	FT5	xxx/B1092.5 F498	Starlink-281	Starlink Group 10-34	V2MO 10-34	-	CC	LC40	-	-	-	-	-
2025-142	2460855.22	2025 Jun 28 1713:00	Falcon 9	FT5	xxx/B1088.8 F499	Starlink-282	Starlink Group 15-7	V2MO 15-7	-	VSFBS	SLC4E	-	-	-	-	-
2025-143	2460858.38	2025 Jul 1 2104	Falcon 9	FT5	xxx/B1085.9 F500	Meteosat-13	MTG-S1	-	-	KSC	LC39A	-	-	-	-	-
2025-144	2460858.77	2025 Jul 2 0628:10	Falcon 9	FT5	xxx/B1067.29 F501	Starlink-283	Starlink Group 10-25	V2MO 10-25	-	CC	LC40	-	-	-	-	-
2025-147	2460864.85	2025 Jul 8 0821:00	Falcon 9	FT5	xxx/B1077.22 F502	Starlink-284	Starlink Group 10-28	V2MO 10-28	-	CC	LC40	-	-	-	-	-
2025-148	2460869.71	2025 Jul 13 0504	Falcon 9	FT5	xxx/B1083.13 F503	Dror-1	Dror-1	-	-	CC	LC40	-	-	-	-	-
2025-150	2460872.59	2025 Jul 16 0205:20	Falcon 9	FT5	xxx/B1096.1? F504	Starlink-285	Starlink Group 15-2	V2MO 15-2	-	VSFBS	SLC4E	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-026	2455352.28	2010 Jun 4 1845:00	Falcon 9	-	001/B0003? F001	6.000	SPX	OS	-	CX	Sat LEO O	Wire	-	-
2010-066	2455539.15	2010 Dec 8 1543	Falcon 9	-	002/B0004? F002	8.774	SPX	OS	-	CX	Sat LEO O	Wire	-	-
2012-027	2456069.82	2012 May 22 0744:38	Falcon 9	-	003/B0005? F003	7.379	SPX	OS	-	CX	Sat ISS O	Wire	-	-
2012-A10	2456191.50	2012 Sep 21	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	2m hop
2012-054	2456208.52	2012 Oct 8 0035:07	Falcon 9	-	004/B0006? F004	8.249	SPX	OS85	S2R	CX	Sat ISS O	Wire	-	S1 engine out stopped S2R
2012-A22	2456232.50	2012 Nov 1	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	5m hop
2012-A25	2456278.50	2012 Dec 17	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	40m hop
2013-010	2456353.13	2013 Mar 1 1510:13	Falcon 9	-	005/B0007? F005	9.630	SPX	OS	-	CX	Sat ISS O	Wire	-	-
2013-A02	2456358.50	2013 Mar 7	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	80m
2013-A06	2456401.50	2013 Apr 19	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	250m
2013-A11	2456457.50	2013 Jun 14	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	325m
2013-A12	2456517.50	2013 Aug 13	Grasshopper	-	B0002?	0.000	SPX	AS	-	-	Test	spacex.com	-	250m
2013-055	2456565.17	2013 Sep 29 1600:13	Falcon 9	1.1	006/B1003? F006	0.578	SPX	OS	-	CX/OG	Sat LEO O	Wire	-	-
2013-A19	2456572.50	2013 Oct 7	Grasshopper	-	-	0.000	SPX	AS	-	-	Test	spacex.com	-	325m
2013-071	2456630.45	2013 Dec 3 2241	Falcon 9	1.1	007 F007	3.138	SPX	OS	-	C	Sat STO O	Wire	-	-
2014-002	2456664.42	2014 Jan 6 2206	Falcon 9	1.1	008 F008	3.016	SPX	OS	-	C	Sat STO O	Wire	-	-
2014-A06	2456764.50	2014 Apr 17	Falcon 9R	1	001/B1002.1?	0.000	SPX	AS	-	-	Test	spacex.com	-	250m
2014-022	2456766.31	2014 Apr 18 1925:22	Falcon 9	1.1	009 F009	11.469	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2014-A07	2456778.50	2014 May 1	Falcon 9R	1	002/B1002.2?	0.000	SPX	AS	-	-	Test	spacex.com	-	-
2014-A09	2456826.42	2014 Jun 17 2204	Falcon 9R	1	003/B1002.3?	0.000	SPX	AS	-	-	Test	spacex.com	-	-
2014-040	2456853.14	2014 Jul 14 1515:00	Falcon 9	1.1	010 F010	1.702	SPX	OS	-	C	Sat LEO D	Wire	-	-
2014-A51	2456870.50	2014 Aug 1	Falcon 9R	1	004/B1002.4?	0.000	SPX	AS	-	-	Test	Kratschmann	-	FTS
2014-046	2456874.83	2014 Aug 5 0800	Falcon 9	1.1	011 F011	4.535	SPX	OS	-	C	Sat GTO O	Wire	-	-
2014-A13	2456892.45	2014 Aug 22 2245?	Falcon 9R	1	005/B1002.5?	0.000	SPX	AF	U	-	Test	spacex.com	-	FTS
2014-052	2456907.71	2014 Sep 7 0500:00	Falcon 9	1.1	012/B1011? F012	3.700	SPX	OS	-	C	Sat GTO O	Wire	-	-
2014-056	2456921.74	2014 Sep 21 0552:03	Falcon 9	1.1	013/B1010? F013	12.303	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2015-001	2457032.91	2015 Jan 10 0947:10	Falcon 9	1.1	014/B1012? F014	12.410	SPX	OS	-	CX	Sat ISS O	Wire	-	-
2015-007	2457065.46	2015 Feb 11 2303:42	Falcon 9	1.1	015/B1013? F015	0.570	SPX	DS	-	CX/G	Sat EEO E	Wire	-	-
2015-010	2457083.66	2015 Mar 2 0350:00	Falcon 9	1.1	016/B1014? F016	4.159	SPX	OS	-	C	Sat STO O	Wire	-	-
2015-021	2457127.34	2015 Apr 14 2010:41	Falcon 9	1.1	018/B1015? F017	12.195	SPX	OS	-	CX	Sat ISS O	Wire	-	-
2015-023	2457140.46	2015 Apr 27 2303:00	Falcon 9	1.1	017/B1016? F018	4.700	SPX	OS	-	C	Sat GTO O	Wire	-	-
2015-F02	2457202.10	2015 Jun 28 1421:11	Falcon 9	1.1	020/B1018? F019	12.215	SPX	OF	S2P	CX	Sat ISS D	Wire	-	S2 exploded during S1 burn
2015-081	2457378.56	2015 Dec 22 0129:00	Falcon 9	FT3	021/B1019 F020	2.553	SPX	OS	-	C	Sat LEO D	Wire	-	-
2016-002	2457405.28	2016 Jan 17 1842:18	Falcon 9	1.1	019/B1017? F021	0.553	SPX	OS	-	CX/OG	Sat LEO D	Wire	-	-
2016-013	2457452.48	2016 Mar 4 2335	Falcon 9	FT3	022/B1020? F022	5.271	SPX	OS	-	C	Sat GTO O	Wire	-	-
2016-024	2457487.36	2016 Apr 8 2043:31	Falcon 9	FT3	023/B1021 F023	12.661	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2016-028	2457514.72	2016 May 6 0521	Falcon 9	FT3	024/B1022? F024	4.696	SPX	OS	-	C	Sat GTO O	Wire	-	-
2016-031	2457536.40	2016 May 27 2139	Falcon 9	FT3	025/B1023 F025	3.100	SPX	OS	-	C	Sat STO O	Wire	-	-
2016-038	2457555.10	2016 Jun 15 1429	Falcon 9	FT3	026/B1024? F026	3.917	SPX	OS	-	C	Sat STO O	Wire	-	-
2016-046	2457587.70	2016 Jul 18 0445:29	Falcon 9	FT3	027/B1025 F027	12.244	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2016-050	2457614.73	2016 Aug 14 0526	Falcon 9	FT3	028/B1026? F028	4.600	SPX	OS	-	C	Sat GTO O	Wire	-	-
2016-E01	2457633.05	2016 Sep 1 1307	Falcon 9	FT3	029/B1028? F029	0.000	SPX	OE	PE	C	Sat GTO O	Wire	-	Exploded in static test
2017-003	2457768.25	2017 Jan 14 1754:39	Falcon 9	FT3	030/B1029 F030	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2017-009	2457804.11	2017 Feb 19 1439:00	Falcon 9	FT3	032/B1031 F031	11.741	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2017-014	2457828.75	2017 Mar 16 0600	Falcon 9	FT3	031/B1030 F032	5.600	SPX	OS	-	C	Sat GTO O	Wire	-	-
2017-017	2457843.44	2017 Mar 30 2227	Falcon 9	FT3	033/B1021.2 F033	5.300	SPX	OS	-	C	Sat GTO O	Wire	-	-
2017-022	2457874.97	2017 May 1 1115	Falcon 9	FT3/4	034/B1032 F034	2.700	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2017-025	2457889.47	2017 May 15 2321	Falcon 9	FT3/4	035/B1034 F035	6.070	SPX	OS	-	C	Sat STO O	Wire	-	-
2017-030	2457908.38	2017 Jun 3 2107:38	Falcon 9	FT3	036/B1035 F036	12.053	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2017-038	2457928.30	2017 Jun 23 1910	Falcon 9	FT3	037/B1029.2 F037	4.000	SPX	OS	-	C/OG	Sat STO O	Wire	-	-
2017-039	2457930.35	2017 Jun 25 2025:14	Falcon 9	FT3	038/B1036 F038	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2017-041	2457940.48	2017 Jul 5 2338	Falcon 9	FT3/4	039/B1037 F039	6.761	SPX	OS	-	C	Sat GTO O	Wire	-	-
2017-045	2457980.19	2017 Aug 14 1631:37	Falcon 9	FT4	040/B1039 F040	12.509	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2017-049	2457990.29	2017 Aug 24 1851	Falcon 9	FT3/4	041/B1038 F041	0.525	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2017-052	2458004.08	2017 Sep 7 1400	Falcon 9	FT4	042/B1040 F042	5.015	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2017-061	2458036.03	2017 Oct 9 1237:01	Falcon 9	FT4	043/B1041 F043	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2017-063	2458038.45	2017 Oct 11 2253	Falcon 9	FT3/4	044/B1031.2 F044	5.300	SPX	OS	-	C	Sat GTO O	Wire	-	-
2017-067	2458057.32	2017 Oct 30 1934	Falcon 9	FT4	045/B1042 F045	3.700	SPX	OS	-	C	Sat STO O	Wire	-	-
2017-080	2458103.15	2017 Dec 15 1536:09	Falcon 9	FT3/4	047/B1035.2 F046	12.443	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2017-083	2458110.56	2017 Dec 23 0127:34	Falcon 9	FT3/4	048/B1036.2 F047	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2018-001	2458126.54	2018 Jan 8 0100	Falcon 9	FT4	046/B1043 F048	11.000	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2018-013	2458150.39	2018 Jan 31 2125	Falcon 9	FT3/4	050/B1032.2 F049	4.000	SPX	OS	-	C	Sat STO O	Wire	-	-
2018-017	2458156.36	2018 Feb 6 2045	Falcon Heavy	-	001/B1033.1	1.000	SPX	DS	-	C	Sat EEO E	Wire	-	-
2018-020	2458172.10	2018 Feb 22 1417	Falcon 9	FT3/4	049/B1038.2 F050	2.100	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2018-023	2458183.73	2018 Mar 6 0533	Falcon 9	FT4	051/B1044 F051	6.182	SPX	OS	-	C	Sat GTO O	Wire	-	-
2018-030	2458208.09	2018 Mar 30 1413:51	Falcon 9	FT4	053/B1041.2 F052	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2018-032	2458211.35	2018 Apr 2 2030:38	Falcon 9	FT4	054/B1039.2 F053	12.551	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2018-038	2458227.45	2018 Apr 18 2251:30	Falcon 9	FT4	052/B1045 F054	0.362	SPX	DS	-	CX/G	Sat DSO E	Wire	-	-
2018-044	2458250.34	2018 May 11 2014	Falcon 9	FT5	055/B1046 F055	3.700	SPX	OS	-	C/OG	Sat GTO O	Wire	-	-
2018-047	2458261.32	2018 May 22 1947:58	Falcon 9	FT4	056/B1043.2 F056	5.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2018-049	2458273.70	2018 Jun 4 0445	Falcon 9	FT4/5	057/B1040.2 F057	5.384	SPX	OS	-	C	Sat STO O	Wire	-	-
2018-055	2458298.90	2018 Jun 29 0942:42	Falcon 9	FT4/5	060/B1045.2 F058	12.433	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2018-059	2458321.74	2018 Jul 22 0550	Falcon 9	FT5	058/B1047 F059	7.075	SPX	OS	-	C	Sat GTO O	Wire	-	-
2018-061	2458324.99	2018 Jul 25 1139:26	Falcon 9	FT5	059/B1048 F060	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2018-064	2458337.72	2018 Aug 7 0518	Falcon 9	FT5	061/B1046.2 F061	5.800	SPX	OS	-	C	Sat GTO O	Wire	-	-
2018-069	2458371.70	2018 Sep 10 0445	Falcon 9	FT5	062/B1049 F062	7.060	SPX	OS	-	C	Sat GTO O	Wire	-	-
2018-076	2458399.60	2018 Oct 8 0221:28	Falcon 9	FT5	063/B1048.2 F063	3.000	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2018-090	2458438.37	2018 Nov 15 2046	Falcon 9	FT5	065/B1047.2 F064	5.300	SPX	OS	-	C	Sat GTO O	Wire	-	-
2018-099	2458456.27	2018 Dec 3 1834:05	Falcon 9	FT5	066/B1046.3 F065	4.566	SPX	OS	-	C	Sat SSO D	Wire	-	-
2018-101	2458458.26	2018 Dec 5 1816:16	Falcon 9	FT5	067/B1050 F066	12.870	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2018-109	2458476.08	2018 Dec 23 1351	Falcon 9	FT5	064/B1054 F067	4.400	SPX	OS	-	CX/G	Sat MTO D	Wire	-	-
2019-002	2458495.15	2019 Jan 11 1531:33	Falcon 9	FT5	069/B1049.2 F068	8.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2019-009	2458536.57	2019 Feb 22 0145	Falcon 9	FT5	070/B1048.3 F069	5.412	SPX	DS	-	C	Sat STO O	Wire	-	-
2019-011	2458544.83	2019 Mar 2 0749	Falcon 9	FT5	068/B1051 F070	13.259	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2019-021	2458585.44	2019 Apr 11 2235	Falcon Heavy	-	002/B1055.1	6.465	SPX	OS	-	C	Sat STO O	Wire	-	-
2019-025	2458607.78	2019 May 4 0648:58	Falcon 9	FT5	071/B1056.1 F071	12.740	SPX	OS	-	CX	Sat ISS D	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-029	2458627.60	2019 May 24 0230	Falcon 9	FT5	073/B1049.3 F072	14.020	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2019-033	2458647.10	2019 Jun 12 1417	Falcon 9	FT5	072/B1051.2 F073	4.350	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2019-036	2458659.77	2019 Jun 25 0630	Falcon Heavy	-	003/B1057.1	3.491	SPX	OS	-	CX/G	Sat MEO O	Wire	-	-
2019-044	2458690.42	2019 Jul 25 2201:56	Falcon 9	FT5	076/B1056.2 F074	12.551	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2019-050	2458702.47	2019 Aug 6 2323:00	Falcon 9	FT5	075/B1047.3 F075	5.500	SPX	OS	-	C	Sat GTO O	Wire	-	-
2019-074	2458799.12	2019 Nov 11 1456	Falcon 9	FT5	077/B1048.4 F076	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2019-083	2458823.23	2019 Dec 5 1729:24	Falcon 9	FT5	080/B1059 F077	11.966	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2019-091	2458834.51	2019 Dec 17 0010	Falcon 9	FT5	078/B1056.3 F078	6.800	SPX	OS	-	C	Sat GTO O	Wire	-	-
2020-001	2458855.60	2020 Jan 7 0219:21	Falcon 9	FT5	079/B1049.4 F079	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-A04	2458868.15	2020 Jan 19 1530:00	Falcon 9	FT5	074/B1046.4 F080	0.000	SPX	AS	-	-	Abort test	Wire	-	-
2020-006	2458878.09	2020 Jan 29 1406	Falcon 9	FT5	082/B1051.3 F081	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-012	2458897.13	2020 Feb 17 1505:55	Falcon 9	FT5	083/B1056.4 F082	16.000	SPX	OS	-	C	Sat LEO O 4	Wire	-	-
2020-016	2458915.70	2020 Mar 7 0450:31	Falcon 9	FT5	087/B1059.2 F083	11.662	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2020-019	2458927.01	2020 Mar 18 1216:39	Falcon 9	FT5	084/B1048.5 F084	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-025	2458962.31	2020 Apr 22 1930	Falcon 9	FT5	086/B1051.4 F085	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-033	2459000.31	2020 May 30 1922:45	Falcon 9	FT5	081/B1058.1 F086	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2020-035	2459004.56	2020 Jun 4 0125:33	Falcon 9	FT5	088/B1049.5 F087	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-038	2459013.89	2020 Jun 13 0921:18	Falcon 9	FT5	090/B1059.3 F088	15.820	SPX	OS	-	C	Sat LEO D 5	Wire	-	-
2020-041	2459031.34	2020 Jun 30 2010:46	Falcon 9	FT5	085/B1060.1 F089	4.400	SPX	OS	-	CX/G	Sat MTO O	Wire	-	-
2020-048	2459051.40	2020 Jul 20 2130	Falcon 9	FT5	092/B1058.2 F090	5.600	SPX	OS	-	C/OG	Sat STO O	Wire	-	-
2020-055	2459068.72	2020 Aug 7 0512:05	Falcon 9	FT5	091/B1051.5 F091	15.335	SPX	OS	-	C	Sat LEO D 5	Wire	-	-
2020-057	2459080.10	2020 Aug 18 1431:00	Falcon 9	FT5	093/B1049.6 F092	15.815	SPX	OS	-	C	Sat LEO D 5	Wire	-	-
2020-059	2459092.47	2020 Aug 30 2318:00	Falcon 9	FT5	089/B1059.4 F093	3.091	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2020-062	2459096.03	2020 Sep 3 1246:14	Falcon 9	FT5	094/B1060.2 F094	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-070	2459128.98	2020 Oct 6 1129:34	Falcon 9	FT5	096/B1058.3 F095	16.000	SPX	OS	-	C	Sat LEO O 4	Wire	-	-
2020-073	2459141.02	2020 Oct 18 1225:57	Falcon 9	FT5	095/B1051.6 F096	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-074	2459147.15	2020 Oct 24 1531:34	Falcon 9	FT5	100/B1060.3 F097	16.000	SPX	OS	-	C	Sat LEO O 4	Wire	-	-
2020-078	2459159.48	2020 Nov 5 2324:23	Falcon 9	FT5	098/B1062.1 F098	4.400	SPX	OS	-	CX/G	Sat MTO D	Wire	-	-
2020-084	2459169.52	2020 Nov 16 0027:17	Falcon 9	FT5	097/B1061.1 F099	13.000	SPX	OS	-	CX	Sat ISS D	Wire	-	-9
2020-086	2459175.22	2020 Nov 21 1717:08	Falcon 9	FT5	106/B1063.1 F100	1.192	SPX	OS	-	C/OG	Sat LEO D	Wire	-	-
2020-088	2459178.59	2020 Nov 25 0213:12	Falcon 9	FT5	102/B1049.7 F101	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2020-093	2459190.18	2020 Dec 6 1617:08	Falcon 9	FT5	103/B1058.4 F102	18.050	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2020-096	2459197.23	2020 Dec 13 1730	Falcon 9	FT5	099/B1051.7 F103	7.000	SPX	OS	-	C	Sat GTO O	Wire	-	-
2020-101	2459203.08	2020 Dec 19 1400	Falcon 9	FT5	101/B1059.5 F104	4.000	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2021-001	2459222.59	2021 Jan 8 0215	Falcon 9	FT5	104/B1060.4 F105	3.500	SPX	OS	-	C	Sat STO O	Wire	-	-
2021-005	2459235.04	2021 Jan 20 1302	Falcon 9	FT5	105/B1051.8 F106	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-006	2459239.12	2021 Jan 24 1500	Falcon 9	FT5	107/B1058.5 F107	5.058	SPX	OS	-	C	Sat SSO D 5	Wire	-	-
2021-009	2459249.76	2021 Feb 4 0619	Falcon 9	FT5	109/B1060.5 F108	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-012	2459261.67	2021 Feb 16 0359:37	Falcon 9	FT5	110/B1059.6 F109	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-017	2459277.85	2021 Mar 4 0824:54	Falcon 9	FT5	108/B1049.8 F110	16.000	SPX	OS	-	C	Sat LEO O 4	Wire	-	-
2021-018	2459284.84	2021 Mar 11 0813:29	Falcon 9	FT5	111/B1058.6 F111	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-021	2459287.92	2021 Mar 14 1001:26	Falcon 9	FT5	112/B1051.9 F112	16.000	SPX	OS	-	C	Sat LEO D 4	spaceflightnow.com	-	-
2021-024	2459297.85	2021 Mar 24 0828	Falcon 9	FT5	113/B1060.6 F113	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-027	2459312.19	2021 Apr 7 1634	Falcon 9	FT5	114/B1058.7 F114	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-030	2459327.91	2021 Apr 23 0949:02	Falcon 9	FT5	118/B1061.2 F115	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2021-036	2459333.66	2021 Apr 29 0344:30	Falcon 9	FT5	115/B1060.7 F116	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-038	2459339.29	2021 May 4 1901	Falcon 9	FT5	116/B1049.9 F117	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-040	2459343.78	2021 May 9 0642	Falcon 9	FT5	117/B1051.10 F118	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-041	2459350.46	2021 May 15 2256	Falcon 9	FT5	119/B1058.8 F119	14.093	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-044	2459361.29	2021 May 26 1859	Falcon 9	FT5	120/B1063.2 F120	16.000	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-048	2459369.23	2021 Jun 3 1729:15	Falcon 9	FT5	122/B1067.1 F121	18.349	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2021-049	2459371.68	2021 Jun 6 0426	Falcon 9	FT5	121/B1061.3 F122	7.000	SPX	OS	-	C	Sat GTO O	Wire	-	-
2021-054	2459383.17	2021 Jun 17 1609:35	Falcon 9	FT5	123/B1062.2 F123	4.400	SPX	OS	-	CX/G	Sat MTO D	Wire	-	-
2021-059	2459396.31	2021 Jun 30 1931	Falcon 9	FT5	124/B1060.8 F124	3.629	SPX	OS	-	C	Sat SSO D	Wire	-	-
2021-078	2459455.80	2021 Aug 29 0714:48	Falcon 9	FT5	127/B1061.4 F125	17.235	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2021-082	2459471.66	2021 Sep 14 0355:50	Falcon 9	FT5	125/B1049.10 F126	15.547	SPX	OS	-	C	Sat LEO O 4	Wire	-	-
2021-084	2459473.50	2021 Sep 16 0002:56	Falcon 9	FT5	128/B1062.3 F127	13.000	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2021-103	2459529.59	2021 Nov 11 0203:31	Falcon 9	FT5	131/B1067.2 F128	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2021-104	2459532.01	2021 Nov 13 1218:56	Falcon 9	FT5	130/B1058.9 F129	15.770	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-110	2459542.76	2021 Nov 24 0621:02	Falcon 9	FT5	133/B1063.3 F130	0.623	SPX	DS	-	CX/G	Sat EEO E	Wire	-	-
2021-115	2459551.47	2021 Dec 2 2312	Falcon 9	FT5	126/B1060.9 F131	14.435	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-121	2459557.75	2021 Dec 9 0600	Falcon 9	FT5	132/B1061.5 F132	0.330	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2021-125	2459567.03	2021 Dec 18 1241:40	Falcon 9	FT5	129/B1051.11 F133	15.480	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2021-126	2459567.67	2021 Dec 19 0358:39	Falcon 9	FT5	135/B1067.3 F134	4.500	SPX	OS	-	C	Sat STO O	Wire	-	-
2021-127	2459569.92	2021 Dec 21 1007:08	Falcon 9	FT5	136/B1069.1 F135	18.025	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2022-001	2459586.41	2022 Jan 6 2149	Falcon 9	FT5	138/B1062.4 F136	14.953	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-002	2459593.14	2022 Jan 13 1525	Falcon 9	FT5	137/B1058.10 F137	3.165	SPX	OS	-	C	Sat SSO D	Wire	-	-
2022-005	2459598.59	2022 Jan 19 0202:40	Falcon 9	FT5	139/B1060.10 F138	14.953	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-008	2459611.47	2022 Jan 31 2311	Falcon 9	FT5	134/B1052.3 F139	2.205	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2022-009	2459613.35	2022 Feb 2 2027:26	Falcon 9	FT5	141/B1071.1 F140	10.000	SPX	OS	-	CX/G	Sat SSO D	Wire	-	-
2022-010	2459614.26	2022 Feb 3 1813:20	Falcon 9	FT5	140/B1061.6 F141	14.953	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-016	2459632.11	2022 Feb 21 1444:20	Falcon 9	FT5	142/B1058.11 F142	14.062	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-017	2459636.22	2022 Feb 25 1712:10	Falcon 9	FT5	143/B1063.4 F143	15.250	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-022	2459642.10	2022 Mar 3 1425:00	Falcon 9	FT5	144/B1060.11 F144	14.359	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-025	2459648.07	2022 Mar 9 1345:00	Falcon 9	FT5	145/B1052.4 F145	14.656	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-029	2459657.70	2022 Mar 19 0442:30	Falcon 9	FT5	146/B1051.12 F146	16.141	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-033	2459671.18	2022 Apr 1 1624:16	Falcon 9	FT5	148/B1061.7 F147	2.199	SPX	OS	-	C	Sat SSO D	Wire	-	-
2022-037	2459678.14	2022 Apr 8 1517:11	Falcon 9	FT5	147/B1062.5 F148	13.000	SPX	OS	-	C	Sat ISS D	Wire	-	-
2022-040	2459687.05	2022 Apr 17 1313	Falcon 9	FT5	149/B1071.2 F149	2.000	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2022-041	2459691.24	2022 Apr 21 1751:40	Falcon 9	FT5	151/B1060.12 F150	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-042	2459696.83	2022 Apr 27 0752:55	Falcon 9	FT5	150/B1067.4 F151	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2022-045	2459699.39	2022 Apr 29 2127:10	Falcon 9	FT5	152/B1062.6 F152	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-049	2459705.90	2022 May 6 0942:00	Falcon 9	FT5	153/B1058.12 F153	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-051	2459713.42	2022 May 13 2207:50	Falcon 9	FT5	154/B1063.5 F154	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-052	2459714.36	2022 May 14 2040:50	Falcon 9	FT5	155/B1073.1 F155	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-053	2459717.96	2022 May 18 1059:40	Falcon 9	FT5	156/B1052.5 F156	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-057	2459725.27	2022 May 25 1835:00	Falcon 9	FT5	157/B1061.8 F157	2.469	SPX	OS	-	C	Sat SSO D	Wire	-	-
2022-061	2459739.38	2022 Jun 8 2104	Falcon 9	FT5	159/B1062.7 F158	3.938	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-062	2459748.17	2022 Jun 17 1608:50	Falcon 9	FT5	160/B1060.13 F159	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-063	2459749.10	2022 Jun 18 1419:52	Falcon 9	FT5	162/B1071.3 F160	4.000	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2022-064	2459749.69	2022 Jun 19 0427:36	Falcon 9	FT5	161/B1061.9 F161	2.465	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2022-071	2459760.38	2022 Jun 29 2104	Falcon 9	FT5	164/B1073.2 F162	3.500	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-076	2459768.05	2022 Jul 7 1311:00	Falcon 9	FT5	163/B1058.13 F163	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-077	2459771.57	2022 Jul 11 0139:40	Falcon 9	FT5	165/B1063.6 F164	13.862	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-081	2459775.53	2022 Jul 15 0044:22	Falcon 9	FT5	158/B1067.5 F165	17.447	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2022-083	2459778.10	2022 Jul 17 1420:00	Falcon 9	FT5	166/B1051.13 F166	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-084	2459783.24	2022 Jul 22 1739:40	Falcon 9	FT5	167/B1071.4 F167	13.862	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-086	2459785.07	2022 Jul 24 1338:20	Falcon 9	FT5	168/B1062.8 F168	15.941	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-094	2459796.46	2022 Aug 4 2308:48	Falcon 9	FT5	169/B1052.6 F169	0.678	SPX	DS	-	C/OG	Sat EEO E	Wire	-	-
2022-097	2459801.59	2022 Aug 10 0214:40	Falcon 9	FT5	171/B1073.3 F170	15.644	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-099	2459804.40	2022 Aug 12 2140:20	Falcon 9	FT5	170/B1061.10 F171	14.000	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-101	2459811.31	2022 Aug 19 1921:20	Falcon 9	FT5	172/B1062.9 F172	16.100	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-104	2459819.65	2022 Aug 28 0341:20	Falcon 9	FT5	173/B1069.2 F173	16.400	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-105	2459822.74	2022 Aug 31 0540:10	Falcon 9	FT5	174/B1063.7 F174	14.000	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-107	2459827.59	2022 Sep 5 0209:40	Falcon 9	FT5	175/B1052.7 F175	15.955	SPX	OS	-	C	Sat LEO D 5	Wire	-	-
2022-111	2459833.56	2022 Sep 11 0120:00	Falcon 9	FT5	176/B1058.14 F176	12.240	SPX	OS	-	C	Sat LEO D 5	Wire	-	-
2022-114	2459841.51	2022 Sep 19 0018:40	Falcon 9	FT5	177/B1067.6 F177	16.670	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-119	2459847.48	2022 Sep 24 2332:10	Falcon 9	FT5	178/B1073.4 F178	16.060	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-124	2459858.17	2022 Oct 5 1600:57	Falcon 9	FT5	181/B1077.1 F179	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2022-125	2459858.47	2022 Oct 5 2310:30	Falcon 9	FT5	180/B1071.5 F180	16.060	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-128	2459861.46	2022 Oct 8 2305	Falcon 9	FT5	182/B1060.14 F181	7.350	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-134	2459867.72	2022 Oct 15 0522	Falcon 9	FT5	183/B1069.3 F182	4.476	SPX	OS	-	C	Sat STO O	Wire	-	-
2022-136	2459873.12	2022 Oct 20 1450:40	Falcon 9	FT5	179/B1062.10 F183	16.670	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-141	2459880.55	2022 Oct 28 0114:10	Falcon 9	FT5	184/B1063.8 F184	16.365	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2022-144	2459885.07	2022 Nov 1 1341	Falcon Heavy	-	004/B1066.1	1.443	SPX	OS	-	CX/G	Sat GEO O	Wire	-	-
2022-146	2459886.72	2022 Nov 3 0522	Falcon 9	FT5	185/B1067.7 F185	4.476	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-153	2459896.17	2022 Nov 12 1606	Falcon 9	FT5	186/B1051.14 F186	6.600	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-157	2459906.62	2022 Nov 23 0257	Falcon 9	FT5	188/B1049.11 F187	4.500	SPX	OS	-	C	Sat GTO O	Wire	-	-
2022-159	2459910.31	2022 Nov 26 1920:43	Falcon 9	FT5	189/B1076.1 F188	18.584	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2022-166	2459922.44	2022 Dec 8 2227:48	Falcon 9	FT5	192/B1069.4 F189	5.920	SPX	OS	-	C	Sat LEO D	Wire	-	-
2022-168	2459924.82	2022 Dec 11 0738:13	Falcon 9	FT5	190/B1073.5 F190	1.074	SPX	DS	-	C	Sat EEO E	Wire	-	-
2022-173	2459929.99	2022 Dec 16 1146:47	Falcon 9	FT5	194/B1071.6 F191	2.200	SPX	OS	-	C/G	Sat LEO D	Wire	-	-
2022-174	2459930.45	2022 Dec 16 2248:00?	Falcon 9	FT5	193/B1067.8 F192	3.400	SPX	OS	-	C	Sat MEO O	Wire	-	-
2022-175	2459931.40	2022 Dec 17 2132:30	Falcon 9	FT5	191/B1058.15 F193	16.670	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2022-177	2459941.90	2022 Dec 28 0934:00	Falcon 9	FT5	195/B1062.11 F194	16.670	SPX	OS	-	C	Sat LEO D 4	spaceflightnow.com	-	-
2022-179	2459943.82	2022 Dec 30 0738	Falcon 9	FT5	187/B1061.11 F195	0.400	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-001	2459948.12	2023 Jan 3 1455:56	Falcon 9	FT5	196/B1060.15 F196	3.511	SPX	OS	-	C	Sat SSO D	spaceflightnow.com	-	-
2023-004	2459954.70	2023 Jan 10 0450:17	Falcon 9	FT5	198/B1076.2 F197	5.920	SPX	OS	-	C	Sat LEO D	spaceflightnow.com	-	-
2023-008	2459960.46	2023 Jan 15 2256	Falcon Heavy	-	005/B1070.1	3.700	SPX	OS	-	CX/G	Sat GEO O	Wire	-	-
2023-009	2459963.02	2023 Jan 18 1224	Falcon 9	FT5	199/B1077.2 F198	4.352	SPX	OS	-	CX/G	Sat MTO D	nasaspacflight.com	-	-
2023-010	2459964.15	2023 Jan 19 1543:10	Falcon 9	FT5	197/B1075.1 F199	15.755	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-013	2459970.90	2023 Jan 26 0932:20	Falcon 9	FT5	201/B1067.9 F200	17.280	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-014	2459976.18	2023 Jan 31 1615:00	Falcon 9	FT5	200/B1071.7 F201	15.395	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-015	2459977.83	2023 Feb 2 0758:20	Falcon 9	FT5	202/B1069.5 F202	16.365	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-017	2459982.56	2023 Feb 7 0132	Falcon 9	FT5	203/B1073.6 F203	4.500	SPX	OS	-	C	Sat STO O	Wire	-	-
2023-020	2459987.72	2023 Feb 12 0510:10	Falcon 9	FT5	205/B1062.12 F204	16.975	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-021	2459993.30	2023 Feb 17 1912:20	Falcon 9	FT5	206/B1063.9 F205	15.755	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-022	2459993.67	2023 Feb 18 0359	Falcon 9	FT5	207/B1077.3 F206	5.470	SPX	OS	-	C	Sat GTO O	Wire	-	-
2023-026	2460003.47	2023 Feb 27 2313:50	Falcon 9	FT5	208/B1076.3 F207	15.750	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-027	2460005.73	2023 Mar 2 0534:14	Falcon 9	FT5	209/B1078.1 F208	13.055	SPX	OS	-	C	Sat ISS D	Wire	-	-
2023-028	2460007.28	2023 Mar 3 1838:50	Falcon 9	FT5	204/B1061.12 F209	15.755	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-029	2460013.30	2023 Mar 9 1913:28	Falcon 9	FT5	210/B1062.13 F210	5.920	SPX	OS	-	C	Sat LEO D	spaceflightnow.com	-	-
2023-033	2460018.52	2023 Mar 15 0030:42	Falcon 9	FT5	213/B1073.7 F211	17.862	SPX	OS	-	C	Sat ISS D	Wire	-	-
2023-037	2460021.31	2023 Mar 17 1926:40	Falcon 9	FT5	211/B1071.8 F212	16.060	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-038	2460021.48	2023 Mar 17 2338:00?	Falcon 9	FT5	212/B1069.6 F213	7.255	SPX	OS	-	C	Sat GTO O	spaceflightnow.com	-	-
2023-042	2460028.15	2023 Mar 24 1543:10	Falcon 9	FT5	217/B1067.10 F214	17.100	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-046	2460033.33	2023 Mar 29 2001:00	Falcon 9	FT5	215/B1077.4 F215	17.100	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-050	2460037.10	2023 Apr 2 1429	Falcon 9	FT5	216/B1075.2 F216	4.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-052	2460041.69	2023 Apr 7 0430:00	Falcon 9	FT5	218/B1076.4 F217	6.309	SPX	OS	-	C	Sat GTO O	Wire	-	-
2023-054	2460049.78	2023 Apr 15 0647:39	Falcon 9	FT5	219/B1063.10 F218	2.735	SPX	OS	-	C	Sat SSO D	Wire	-	-
2023-056	2460054.10	2023 Apr 19 1431:10	Falcon 9	FT5	220/B1073.8 F219	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-058	2460062.07	2023 Apr 27 1340:50	Falcon 9	FT5	214/B1061.13 F220	13.820	SPX	OS	-	C	Sat SSO D 4	Wire	-	-
2023-059	2460063.42	2023 Apr 28 2212	Falcon 9	FT5	221/B1078.2 F221	3.400	SPX	OS	-	C	Sat MEO O	Wire	-	-
2023-060	2460065.52	2023 May 1 0026	Falcon Heavy	-	006/B1068.1	6.840	SPX	OS	-	C	Sat GEO O	Wire	-	-
2023-061	2460068.81	2023 May 4 0731:00	Falcon 9	FT5	222/B1069.7 F222	17.100	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-064	2460075.34	2023 May 10 2009:00	Falcon 9	FT5	223/B1075.3 F223	15.575	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-065	2460078.71	2023 May 14 0503:30	Falcon 9	FT5	225/B1067.11 F224	17.100	SPX	OS	-	C	Sat LEO D 4	Wire	-	-
2023-067	2460083.76	2023 May 19 0619:30	Falcon 9	FT5	227/B1076.5 F225	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-068	2460085.05	2023 May 20 1316:33	Falcon 9	FT5	226/B1063.11 F226	6.668	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-070	2460086.40	2023 May 21 2137:09	Falcon 9	FT5	224/B1080.1 F227	13.000	SPX	OS	-	C	Sat ISS D	Wire	-	-
2023-075	2460091.69	2023 May 27 0430	Falcon 9	FT5	228/B1062.14 F228	4.500	SPX	OS	-	C	Sat STO O	Wire	-	-
2023-078	2460095.75	2023 May 31 0602:30	Falcon 9	FT5	229/B1061.14 F229	15.880	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-079	2460100.01	2023 Jun 4 1220:00	Falcon 9	FT5	232/B1078.3 F230	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-080	2460101.16	2023 Jun 5 1547:00	Falcon 9	FT5	231/B1077.5 F231	18.940	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2023-083	2460107.80	2023 Jun 12 0710:50	Falcon 9	FT5	230/B1073.9 F232	15.880	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-084	2460108.40	2023 Jun 12 2135:00	Falcon 9	FT5	233/B1071.9 F233	4.011	SPX	OS	-	C	Sat SSO D	Wire	-	-
2023-086	2460114.43	2023 Jun 18 2221	Falcon 9	FT5	235/B1067.12 F234	4.600	SPX	OS	-	C	Sat STO O	Wire	-	-
2023-088	2460117.80	2023 Jun 22 0719:00	Falcon 9	FT5	236/B1075.4 F235	14.355	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-090	2460119.15	2023 Jun 23 1535:10	Falcon 9	FT5	234/B1069.8 F236	17.100	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-092	2460127.13	2023 Jul 1 1512	Falcon 9	FT5	238/B1080.2 F237	1.921	SPX	DS	-	C/OG	Sat EEO E	Wire	-	-
2023-094	2460133.31	2023 Jul 7 1929:50	Falcon 9	FT5	239/B1063.12 F238	14.660	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-096	2460135.67	2023 Jul 10 0358:50	Falcon 9	FT5	240/B1058.16 F239	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-099	2460141.66	2023 Jul 16 0350:00	Falcon 9	FT5	237/B1060.16 F240	16.490	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-102	2460145.67	2023 Jul 20 0409:30	Falcon 9	FT5	241/B1071.10 F241	11.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-105	2460149.54	2023 Jul 24 0050:30	Falcon 9	FT5	242/B1076.6 F242	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-107	2460153.67	2023 Jul 28 0401:10	Falcon 9	FT5	243/B1062.15 F243	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-108	2460154.63	2023 Jul 29 0304	Falcon Heavy	-	007/B1074.1	9.200	SPX	OS	-	C	Sat GEO O	Wire	-	-
2023-112	2460159.71	2023 Aug 3 0500	Falcon 9	FT5	245/B1077.6 F244	5.000	SPX	OS	-	C	Sat STO O	Wire	-	-
2023-113	2460163.61	2023 Aug 7 0241:10	Falcon 9	FT5	244/B1078.4 F245	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-115	2460164.66	2023 Aug 8 0357:00	Falcon 9	FT5	247/B1075.5 F246	11.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-119	2460167.72	2023 Aug 11 0517:40	Falcon 9	FT5	246/B1069.9 F247	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-122	2460173.65	2023 Aug 17 0336:50	Falcon 9	FT5	248/B1067.13 F248	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-124	2460178.90	2023 Aug 22 0937:30	Falcon 9	FT5	250/B1061.15 F249	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-128	2460182.81	2023 Aug 26 0727:27	Falcon 9	FT5	249/B1081.1 F250	13.057	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2023-129	2460183.55	2023 Aug 27 0105:40	Falcon 9	FT5	251/B1080.3 F251	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-131	2460188.60	2023 Sep 1 0221:50	Falcon 9	FT5	252/B1077.7 F252	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-133	2460190.10	2023 Sep 2 1425	Falcon 9	FT5	253/B1063.13 F253	4.900	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2023-134	2460191.62	2023 Sep 4 0247:20	Falcon 9	FT5	254/B1073.10 F254	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-138	2460196.63	2023 Sep 9 0312:50	Falcon 9	FT5	255/B1076.7 F255	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-141	2460199.79	2023 Sep 12 0657:50	Falcon 9	FT5	256/B1071.11 F256	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-144	2460203.65	2023 Sep 16 0338:20	Falcon 9	FT5	257/B1078.5 F257	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-146	2460207.65	2023 Sep 20 0338:10	Falcon 9	FT5	258/B1058.17 F258	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-147	2460211.65	2023 Sep 24 0338:30	Falcon 9	FT5	259/B1060.17 F259	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-148	2460212.87	2023 Sep 25 0848:20	Falcon 9	FT5	260/B1075.6 F260	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-151	2460217.58	2023 Sep 30 0200:00	Falcon 9	FT5	261/B1069.10 F261	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-153	2460222.73	2023 Oct 5 0536:30	Falcon 9	FT5	262/B1076.8 F262	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-156	2460226.82	2023 Oct 9 0743	Falcon 9	FT5	263/B1063.14 F263	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-157	2460231.10	2023 Oct 13 1419:43	Falcon Heavy	-	008/B1079.1	2.768	SPX	DS	-	CX/G	Sat EEO E	Wire	-	-
2023-158	2460231.46	2023 Oct 13 2301:10	Falcon 9	FT5	264/B1067.14 F264	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-160	2460235.53	2023 Oct 18 0039	Falcon 9	FT5	265/B1062.16 F265	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-161	2460238.85	2023 Oct 21 0823:00	Falcon 9	FT5	266/B1061.16 F266	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-162	2460239.60	2023 Oct 22 0217:00	Falcon 9	FT5	267/B1080.4 F267	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-166	2460246.88	2023 Oct 29 0900:00	Falcon 9	FT5	268/B1075.7 F268	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-167	2460248.47	2023 Oct 30 2320:30	Falcon 9	FT5	269/B1077.8 F269	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-170	2460252.53	2023 Nov 4 0037:20	Falcon 9	FT5	271/B1058.18 F270	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-171	2460256.71	2023 Nov 8 0505:30	Falcon 9	FT5	273/B1073.11 F271	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-173	2460258.56	2023 Nov 10 0128:14	Falcon 9	FT5	270/B1081.2 F272	18.566	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2023-174	2460260.28	2023 Nov 11 1849:00	Falcon 9	FT5	272/B1071.12 F273	2.635	SPX	OS	-	C	Sat SSO D	Wire	-	-
2023-175	2460261.38	2023 Nov 12 2108	Falcon 9	FT5	274/B1076.9 F274	3.400	SPX	OS	-	C	Sat MEO O	Wire	-	-
2023-177	2460266.71	2023 Nov 18 0505:50	Falcon 9	FT5	275/B1069.11 F275	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-178	2460268.94	2023 Nov 20 1030:40	Falcon 9	FT5	276/B1063.15 F276	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-180	2460270.82	2023 Nov 22 0747:40	Falcon 9	FT5	277/B1067.15 F277	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-183	2460276.68	2023 Nov 28 0420:00	Falcon 9	FT5	278/B1062.17 F278	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-185	2460280.26	2023 Dec 1 1819	Falcon 9	FT5	279/B1061.17 F279	1.857	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2023-186	2460281.67	2023 Dec 3 0400:50	Falcon 9	FT5	280/B1078.6 F280	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-191	2460285.71	2023 Dec 7 0507:30	Falcon 9	FT5	281/B1077.9 F281	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-192	2460286.84	2023 Dec 8 0803	Falcon 9	FT5	282/B1071.13 F282	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-200	2460297.67	2023 Dec 19 0401:00	Falcon 9	FT5	283/B1081.3 F283	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-203	2460301.73	2023 Dec 23 0533:00	Falcon 9	FT5	286/B1058.19 F284	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2023-204	2460303.05	2023 Dec 24 1311:00	Falcon 9	FT5	287/B1075.8 F285	3.600	SPX	OS	-	C/OG	Sat LEO D	Wire	-	-
2023-210	2460307.55	2023 Dec 29 0107	Falcon Heavy	-	009/B1084.1	5.000	SPX	OS	-	CX/G	Sat MEO D	Wire	-	-
2023-211	2460307.67	2023 Dec 29 0401:40	Falcon 9	FT5	288/B1069.12 F286	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-002	2460312.66	2024 Jan 3 0344:20	Falcon 9	FT5	284/B1082.1 F287	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-003	2460313.46	2024 Jan 3 2304	Falcon 9	FT5	285/B1076.10 F288	1.800	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-005	2460317.44	2024 Jan 7 2235:40	Falcon 9	FT5	290/B1067.16 F289	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-011	2460323.87	2024 Jan 14 0859:30	Falcon 9	FT5	289/B1061.18 F290	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-012	2460324.58	2024 Jan 15 0152:00	Falcon 9	FT5	291/B1073.12 F291	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-014	2460328.41	2024 Jan 18 2149:11	Falcon 9	FT5	295/B1080.5 F292	13.000	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-017	2460333.52	2024 Jan 24 0035:00	Falcon 9	FT5	292/B1063.16 F293	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-019	2460338.55	2024 Jan 29 0110:00	Falcon 9	FT5	293/B1062.18 F294	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-020	2460338.75	2024 Jan 29 0557:20	Falcon 9	FT5	294/B1075.9 F295	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-021	2460340.21	2024 Jan 30 1707:21	Falcon 9	FT5	296/B1077.10 F296	11.962	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-025	2460348.77	2024 Feb 8 0633:32	Falcon 9	FT5	298/B1081.4 F297	1.700	SPX	OS	-	CX/G	Sat SSO D	Wire	-	-
2024-027	2460350.52	2024 Feb 10 0034:00	Falcon 9	FT5	297/B1071.14 F298	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-028	2460355.44	2024 Feb 14 2230:00	Falcon 9	FT5	303/B1078.7 F299	6.000	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2024-030	2460355.75	2024 Feb 15 0605:37	Falcon 9	FT5	301/B1060.18 F300	1.910	SPX	OS	-	C	Sat EEO O	Wire	-	-
2024-031	2460356.40	2024 Feb 15 2134:30	Falcon 9	FT5	299/B1082.2 F301	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-035	2460361.34	2024 Feb 20 2011	Falcon 9	FT5	305/B1067.17 F302	4.000	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-036	2460363.67	2024 Feb 23 0411:50	Falcon 9	FT5	302/B1061.19 F303	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-038	2460366.42	2024 Feb 25 2206:00	Falcon 9	FT5	300/B1069.13 F304	18.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-041	2460370.15	2024 Feb 29 1530:00	Falcon 9	FT5	306/B1076.11 F305	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-042	2460373.66	2024 Mar 4 0353:38	Falcon 9	FT5	304/B1083.1 F306	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-043	2460374.42	2024 Mar 4 2205:00	Falcon 9	FT5	307/B1081.5 F307	4.232	SPX	OS	-	C	Sat SSO D	Wire	-	-
2024-044	2460374.50	2024 Mar 4 2356:00	Falcon 9	FT5	308/B1073.13 F308	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-045	2460380.46	2024 Mar 10 2305:00	Falcon 9	FT5	309/B1077.11 F309	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-046	2460380.67	2024 Mar 11 0409:00	Falcon 9	FT5	312/B1063.17 F310	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-049	2460385.51	2024 Mar 16 0021:00	Falcon 9	FT5	313/B1062.19 F311	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-050	2460388.60	2024 Mar 19 0228:00	Falcon 9	FT5	310/B1075.10 F312	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-054	2460391.37	2024 Mar 21 2055:09	Falcon 9	FT5	311/B1080.6 F313	17.870	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-056	2460393.63	2024 Mar 24 0309:00	Falcon 9	FT5	314/B1060.19 F314	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-057	2460395.49	2024 Mar 25 2342:00	Falcon 9	FT5	321/B1078.8 F315	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-059	2460400.41	2024 Mar 30 2152:00	Falcon 9	FT5	316/B1076.12 F316	5.000	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-060	2460400.56	2024 Mar 31 0130:00	Falcon 9	FT5	318/B1067.18 F317	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-062	2460402.60	2024 Apr 2 0230:00	Falcon 9	FT5	317/B1071.15 F318	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-064	2460405.88	2024 Apr 5 0912:00	Falcon 9	FT5	327/B1069.14 F319	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-065	2460407.60	2024 Apr 7 0225:00	Falcon 9	FT5	319/B1081.6 F320	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-066	2460408.47	2024 Apr 7 2316	Falcon 9	FT5	322/B1073.14 F321	1.848	SPX	OS	-	C/OG	Sat LEO D	Wire	-	-
2024-068	2460410.74	2024 Apr 10 0540:00	Falcon 9	FT5	323/B1083.2 F322	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-070	2460412.10	2024 Apr 11 1425	Falcon 9	FT5	320/B1082.3 F323	1.200	SPX	OS	-	CX/G	Sat SSO D	Wire	-	-
2024-071	2460413.57	2024 Apr 13 0140:00	Falcon 9	FT5	326/B1062.20 F324	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-073	2460418.39	2024 Apr 17 2126:00	Falcon 9	FT5	325/B1077.12 F325	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-074	2460419.44	2024 Apr 18 2240:00	Falcon 9	FT5	328/B1080.7 F326	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-076	2460424.43	2024 Apr 23 2217:00	Falcon 9	FT5	329/B1078.9 F327	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-079	2460428.52	2024 Apr 28 0034	Falcon 9	FT5	332/B1060.20 F328	1.466	SPX	OS	-	C	Sat MEO O	Wire	-	-
2024-080	2460429.42	2024 Apr 28 2208:00	Falcon 9	FT5	331/B1076.13 F329	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-081	2460433.27	2024 May 2 1836	Falcon 9	FT5	324/B1061.20 F330	1.400	SPX	OS	-	C	Sat SSO D	Wire	-	-
2024-082	2460433.61	2024 May 3 0237:00	Falcon 9	FT5	333/B1067.19 F331	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-084	2460437.26	2024 May 6 1814:00	Falcon 9	FT5	335/B1069.15 F332	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-086	2460439.28	2024 May 8 1842:00	Falcon 9	FT5	334/B1083.3 F333	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-088	2460440.69	2024 May 10 0430:00	Falcon 9	FT5	330/B1082.4 F334	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-090	2460443.54	2024 May 13 0053:00	Falcon 9	FT5	336/B1073.15 F335	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-091	2460445.28	2024 May 14 1839:00	Falcon 9	FT5	337/B1063.18 F336	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-093	2460448.52	2024 May 18 0032:00	Falcon 9	FT5	338/B1062.21 F337	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-096	2460452.83	2024 May 22 0800	Falcon 9	FT5	339/B1071.16 F338	15.500	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2024-097	2460453.61	2024 May 23 0235	Falcon 9	FT5	340/B1080.8 F339	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-098	2460454.61	2024 May 24 0245	Falcon 9	FT5	341/B1077.13 F340	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-100	2460459.10	2024 May 28 1424	Falcon 9	FT5	342/B1078.10 F341	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-101	2460459.43	2024 May 28 2220	Falcon 9	FT5	343/B1081.7 F342	2.200	SPX	OS	-	C/OG	Sat SSO D	Wire	-	-
2024-106	2460462.61	2024 Jun 1 0237:00	Falcon 9	FT5	344/B1076.14 F343	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-107	2460466.59	2024 Jun 5 0216:00	Falcon 9	FT5	356/B1067.20 F344	15.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-111	2460469.58	2024 Jun 8 0156:00	Falcon 9	FT5	348/B1069.16 F345	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-112	2460470.04	2024 Jun 8 1258	Falcon 9	FT5	345/B1061.21 F346	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-113	2460480.65	2024 Jun 19 0340:00	Falcon 9	FT5	351/B1082.5 F347	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-115	2460482.40	2024 Jun 20 2135	Falcon 9	FT5	352/B1080.9 F348	5.000	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-117	2460485.22	2024 Jun 23 1715:00	Falcon 9	FT5	350/B1078.11 F349	16.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-118	2460485.66	2024 Jun 24 0347:00	Falcon 9	FT5	353/B1075.11 F350	15.750	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-119	2460487.39	2024 Jun 25 2126	Falcon Heavy	-	010/B1087.1	5.000	SPX	OS	-	CX/G	Sat GTO O	Wire	-	-
2024-120	2460488.97	2024 Jun 27 1114	Falcon 9	FT5	354/B1062.22 F351	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-121	2460490.63	2024 Jun 29 0314	Falcon 9	FT5	347/B1081.8 F352	15.500	SPX	OS	-	CX/G	Sat LEO D	Wire	-	-
2024-124	2460494.87	2024 Jul 3 0855:00	Falcon 9	FT5	365/B1073.16 F353	15.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-127	2460500.48	2024 Jul 8 2330	Falcon 9	FT5	346/B1076.15 F354	4.250	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-129	2460503.61	2024 Jul 12 0235:00	Falcon 9	FT5	355/B1063.19 F355	15.750	SPX	OF40	S2R	C	Sat LEO D	Wire	-	Stage 2 no restart
2024-131	2460518.74	2024 Jul 27 0545:00	Falcon 9	FT5	362/B1069.17 F356	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-132	2460519.71	2024 Jul 28 0509:00	Falcon 9	FT5	358/B1077.14 F357	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-133	2460519.89	2024 Jul 28 0922:10	Falcon 9	FT5	363/B1071.17 F358	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-136	2460524.71	2024 Aug 2 0501:00	Falcon 9	FT5	360/B1078.12 F359	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-138	2460526.81	2024 Aug 4 0724:00	Falcon 9	FT5	364/B1082.6 F360	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-139	2460527.13	2024 Aug 4 1502:53	Falcon 9	FT5	367/B1080.10 F361	12.000	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-141	2460533.03	2024 Aug 10 1250:00	Falcon 9	FT5	366/B1067.21 F362	15.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-143	2460534.58	2024 Aug 12 0202:00	Falcon 9	FT5	361/B1061.22 F363	7.200	SPX	OS	-	C	Sat MOL O	Wire	-	-
2024-144	2460534.94	2024 Aug 12 1037:00	Falcon 9	FT5	357/B1073.17 F364	17.250	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-146	2460538.04	2024 Aug 15 1300:00	Falcon 9	FT5	368/B1076.16 F365	1.400	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-149	2460539.29	2024 Aug 16 1856:00	Falcon 9	FT5	369/B1075.12 F366	3.000	SPX	OS	-	C	Sat SSO D	Wire	-	-
2024-150	2460543.06	2024 Aug 20 1320:00	Falcon 9	FT5	359/B1085.1 F367	16.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-152	2460550.83	2024 Aug 28 0748:00	Falcon 9	FT5	371/B1062.23 F368	16.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-154	2460553.82	2024 Aug 31 0743:00	Falcon 9	FT5	372/B1069.18 F369	16.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-155	2460553.87	2024 Aug 31 0848:00	Falcon 9	FT5	370/B1081.9 F370	16.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-158	2460559.15	2024 Sep 5 1533:00	Falcon 9	FT5	374/B1077.15 F371	16.000	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-160	2460559.64	2024 Sep 6 0320	Falcon 9	FT5	373/B1063.20 F372	15.500	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2024-161	2460563.89	2024 Sep 10 0923:49	Falcon 9	FT5	349/B1083.4 F373	13.500	SPX	OS	-	C	Sat LEO D	polarisprogram.com	-	-
2024-163	2460565.87	2024 Sep 12 0852	Falcon 9	FT5	377/B1078.13 F374	7.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-164	2460566.57	2024 Sep 13 0145:00	Falcon 9	FT5	375/B1071.18 F375	16.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-167	2460571.45	2024 Sep 17 2250	Falcon 9	FT5	376/B1067.22 F376	1.466	SPX	OS	-	C	Sat MEO O	Wire	-	-
2024-171	2460574.08	2024 Sep 20 1350:00	Falcon 9	FT5	378/B1075.13 F377	16.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-175	2460578.67	2024 Sep 25 0401:00	Falcon 9	FT5	380/B1081.10 F378	16.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-178	2460582.22	2024 Sep 28 1717:20	Falcon 9	FT5	379/B1085.2 F379	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-180	2460591.12	2024 Oct 7 1452	Falcon 9	FT5	385/B1061.23 F380	1.200	SPX	DS	-	C/OG	Sat EEO E	SpaceX	-	-
2024-182	2460598.17	2024 Oct 14 1606:00	Falcon Heavy	-	011/B1089.1	5.700	SPX	DS	-	CX/G	Sat EEO E	SpaceX	-	-
2024-183	2460598.76	2024 Oct 15 0610	Falcon 9	FT5	381/B1080.11 F381	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-184	2460598.85	2024 Oct 15 0821	Falcon 9	FT5	389/B1071.19 F382	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-187	2460602.48	2024 Oct 18 2331	Falcon 9	FT5	388/B1076.17 F383	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-188	2460603.72	2024 Oct 20 0513	Falcon 9	FT5	384/B1082.7 F384	3.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-191	2460607.41	2024 Oct 23 2147:00	Falcon 9	FT5	383/B1073.18 F385	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-192	2460608.22	2024 Oct 24 1714	Falcon 9	FT5	382/B1063.21 F386	15.500	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2024-193	2460610.41	2024 Oct 26 2147:00	Falcon 9	FT5	391/B1069.19 F387	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-195	2460614.00	2024 Oct 30 1207:00	Falcon 9	FT5	392/B1075.14 F388	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-196	2460614.38	2024 Oct 30 2110	Falcon 9	FT5	393/B1078.14 F389	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-200	2460619.60	2024 Nov 5 0229:30	Falcon 9	FT5	390/B1083.5 F390	17.870	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2024-202	2460622.35	2024 Nov 7 2019:00	Falcon 9	FT5	395/B1085.3 F391	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-204	2460623.76	2024 Nov 9 0614:00	Falcon 9	FT5	394/B1081.11 F392	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-206	2460626.22	2024 Nov 11 1722	Falcon 9	FT5	398/B1067.23 F393	3.500	SPX	OS	-	C	Sat GTO O	SpaceX	-	-
2024-207	2460626.39	2024 Nov 11 2128:00	Falcon 9	FT5	397/B1080.12 F394	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-209	2460628.72	2024 Nov 14 0523:00	Falcon 9	FT5	396/B1082.8 F395	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-210	2460629.06	2024 Nov 14 1321:00	Falcon 9	FT5	399/B1076.18 F396	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-212	2460632.44	2024 Nov 17 2228	Falcon 9	FT5	400/B1077.16 F397	4.500	SPX	OS	-	C	Sat STO O	SpaceX	-	-
2024-213	2460632.75	2024 Nov 18 0553:00	Falcon 9	FT5	401/B1071.20 F398	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-214	2460633.27	2024 Nov 18 1831	Falcon 9	FT5	402/B1073.19 F399	4.700	SPX	OS	-	C/OG	Sat STO O	Wire	-	-
2024-216	2460636.17	2024 Nov 21 1607:50	Falcon 9	FT5	387/B1069.20 F400	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-217	2460638.73	2024 Nov 24 0525:30	Falcon 9	FT5	403/B1075.15 F401	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-220	2460639.92	2024 Nov 25 1002:20	Falcon 9	FT5	404/B1080.13 F402	14.600	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-222	2460641.70	2024 Nov 27 0441:30	Falcon 9	FT5	405/B1078.15 F403	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-224	2460644.71	2024 Nov 30 0500:00	Falcon 9	FT5	315/B1083.6 F404	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-225	2460644.84	2024 Nov 30 0810:00	Falcon 9	FT5	406/B1088.1 F405	16.000	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2024-229	2460648.93	2024 Dec 4 1013:10	Falcon 9	FT5	408/B1067.24 F406	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-231	2460649.63	2024 Dec 5 0305:00	Falcon 9	FT5	407/B1081.12 F407	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-234	2460650.17	2024 Dec 5 1610	Falcon 9	FT5	409/B1076.19 F408	4.500	SPX	OS	-	C	Sat STO O	SpaceX	-	-
2024-237	2460652.72	2024 Dec 8 0512:30	Falcon 9	FT5	410/B1086.2 F409	14.800	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-239	2460658.41	2024 Dec 13 2155:40	Falcon 9	FT5	386/B1082.9 F410	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-242	2460661.54	2024 Dec 17 0052	Falcon 9	FT5	412/B1085.4 F411	4.000	SPX	OS	-	CX/G	Sat GTO O	Wire	-	-
2024-243	2460662.05	2024 Dec 17 1319	Falcon 9	FT5	413/B1063.22 F412	14.600	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2024-244	2460662.43	2024 Dec 17 2226	Falcon 9	FT5	411/B1090.1 F413	3.400	SPX	OS	-	C	Sat MEO O	Wire	-	-
2024-247	2460665.98	2024 Dec 21 1134:24	Falcon 9	FT5	416/B1071.21 F414	5.000	SPX	OS	-	C/OG	Sat LEO D	SpaceX	-	-
2024-249	2460667.73	2024 Dec 23 0535:30	Falcon 9	FT5	417/B1080.14 F415	13.700	SPX	OS	-	C	Sat LEO D	Wire	-	-
2024-251	2460673.58	2024 Dec 29 0158:30	Falcon 9	FT5	419/B1075.16 F416	14.600	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2024-252	2460673.71	2024 Dec 29 0500:00	Falcon 9	FT5	414/B1083.7 F417	1.600	SPX	OS	-	C	Sat STO O	Wire	-	-
2024-254	2460675.74	2024 Dec 31 0539:10	Falcon 9	FT5	420/B1078.16 F418	13.700	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-001	2460679.56	2025 Jan 4 0127	Falcon 9	FT5	415/B1073.20 F419	5.000	SPX	OS	-	C	Sat GTO O	Wire	-	-
2025-003	2460682.36	2025 Jan 6 2043:59	Falcon 9	FT5	421/B1077.17 F420	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-004	2460684.14	2025 Jan 8 1527:00	Falcon 9	FT5	422/B1086.3 F421	13.700	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-005	2460685.66	2025 Jan 10 0353	Falcon 9	FT5	423/B1071.22 F422	14.600	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2025-006	2460686.30	2025 Jan 10 1911:20	Falcon 9	FT5	424/B1067.25 F423	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-008	2460689.20	2025 Jan 13 1647:09	Falcon 9	FT5	425/B1080.15 F424	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-009	2460690.30	2025 Jan 14 1909:00	Falcon 9	FT5	426/B1088.2 F425	4.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-010	2460690.76	2025 Jan 15 0611	Falcon 9	FT5	427/B1085.5 F426	2.550	SPX	DS	-	C	Sat DSO O	SpaceX	-	-
2025-014	2460696.73	2025 Jan 21 0524:50	Falcon 9	FT5	430/B1083.8 F427	15.300	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-015	2460697.16	2025 Jan 21 1545:50	Falcon 9	FT5	429/B1082.10 F428	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-018	2460700.09	2025 Jan 24 1407	Falcon 9	FT5	431/B1063.23 F429	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-019	2460703.42	2025 Jan 27 2205:00	Falcon 9	FT5	433/B1076.20 F430	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-021	2460705.57	2025 Jan 30 0134	Falcon 9	FT5	434/B1073.21 F431	6.100	SPX	OS	-	C	Sat GTO O	Wire	-	-
2025-022	2460708.46	2025 Feb 1 2302:10	Falcon 9	FT5	435/B1075.17 F432	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-024	2460710.93	2025 Feb 4 1015:00	Falcon 9	FT5	437/B1069.21 F433	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-025	2460711.47	2025 Feb 4 2313	Falcon 9	FT5	436/B1086.4 F434	1.400	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-027	2460715.30	2025 Feb 8 1918:30	Falcon 9	FT5	438/B1078.17 F435	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-029	2460717.59	2025 Feb 11 0209:00	Falcon 9	FT5	439/B1071.23 F436	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-031	2460718.29	2025 Feb 11 1853:20	Falcon 9	FT5	440/B1077.18 F437	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-032	2460721.76	2025 Feb 15 0614:10	Falcon 9	FT5	441/B1067.26 F438	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-034	2460725.47	2025 Feb 18 2321:50	Falcon 9	FT5	432/B1080.16 F439	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-035	2460728.14	2025 Feb 21 1519:00	Falcon 9	FT5	445/B1076.21 F440	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-037	2460729.57	2025 Feb 23 0138:20	Falcon 9	FT5	443/B1082.11 F441	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-038	2460733.51	2025 Feb 27 0016:30	Falcon 9	FT5	444/B1083.9 F442	2.800	SPX	DS	-	C	Sat EEO O	SpaceX	-	-
2025-039	2460733.65	2025 Feb 27 0334:20	Falcon 9	FT5	446/B1092.1? F443	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-043	2460737.60	2025 Mar 3 0224:00	Falcon 9	FT5	447/B1086.5 F444	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-047	2460746.63	2025 Mar 12 0310:12	Falcon 9	FT5	xxx/B1088.3 F445	0.630	SPX	OS	-	CX/G	Sat SSO D	SpaceX	-	-
2025-048	2460747.61	2025 Mar 13 0235:30	Falcon 9	FT5	xxx/B1069.22 F446	17.500	SPX	OS	-	C	Sat LEO D	Wire	-	-
2025-049	2460749.46	2025 Mar 14 2303:48	Falcon 9	FT5	xxx/B1090.2 F447	13.055	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2025-052	2460749.78	2025 Mar 15 0643:00	Falcon 9	FT5	xxx/B1081.13 F448	4.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-053	2460749.98	2025 Mar 15 1135:10	Falcon 9	FT5	xxx/B1078.18 F449	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-057	2460753.33	2025 Mar 18 1957:50	Falcon 9	FT5	xxx/B1077.19 F450	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-058	2460755.78	2025 Mar 21 0649	Falcon 9	FT5	xxx/B1088.4 F451	17.500	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2025-060	2460759.24	2025 Mar 24 1748	Falcon 9	FT5	xxx/B1092.2 F452	2.000	SPX	OS	-	CX/G	Sat LEO D	nasaspaceflight.com	-	-
2025-063	2460761.42	2025 Mar 26 2211:40	Falcon 9	FT5	xxx/B1063.24 F453	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-065	2460766.33	2025 Mar 31 1952:50	Falcon 9	FT5	xxx/B1080.17 F454	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-066	2460766.57	2025 Apr 1 0146	Falcon 9	FT5	xxx/B1085.6 F455	16.000	SPX	OS	-	CX	Sat LEO D	Wire	-	-
2025-069	2460769.54	2025 Apr 4 0102:50	Falcon 9	FT5	xxx/B1088.5 F456	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-070	2460771.63	2025 Apr 6 0307:20	Falcon 9	FT5	xxx/B1078.19 F457	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-071	2460773.46	2025 Apr 7 2306:10	Falcon 9	FT5	xxx/B1093.1 F458	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-074	2460778.02	2025 Apr 12 1225	Falcon 9	FT5	xxx/B1071.24 F459	15.500	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2025-075	2460778.54	2025 Apr 13 0053:30	Falcon 9	FT5	xxx/B1083.10 F460	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-076	2460779.67	2025 Apr 14 0400:10	Falcon 9	FT5	xxx/B1067.27 F461	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-079	2460786.02	2025 Apr 20 1229	Falcon 9	FT5	xxx/B1082.12 F462	15.500	SPX	OS	-	CX/G	Sat LEO D	SpaceX	-	-
2025-080	2460786.84	2025 Apr 21 0815:45	Falcon 9	FT5	xxx/B1092.3 F463	17.870	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2025-081	2460787.53	2025 Apr 22 0048:34	Falcon 9	FT5	xxx/B1090.3 F464	1.560	SPX	OS	-	C/OG	Sat LEO D	SpaceX	-	-
2025-083	2460790.58	2025 Apr 25 0152:40	Falcon 9	FT5	xxx/B1069.23 F465	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-085	2460793.59	2025 Apr 28 0209:40	Falcon 9	FT5	xxx/B1077.20 F466	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-087	2460794.36	2025 Apr 28 2042:20	Falcon 9	FT5	xxx/B1063.25 F467	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-089	2460794.61	2025 Apr 29 0234:10	Falcon 9	FT5	xxx/B1094.1 F468	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-091	2460797.58	2025 May 2 0151:10	Falcon 9	FT5	xxx/B1080.18 F469	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-092	2460799.87	2025 May 4 0854:40	Falcon 9	FT5	xxx/B1078.20 F470	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-093	2460802.55	2025 May 7 0117:20	Falcon 9	FT5	xxx/B1085.7 F471	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-094	2460805.51	2025 May 10 0019:50	Falcon 9	FT5	xxx/B1081.14 F472	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-095	2460805.77	2025 May 10 0628:00	Falcon 9	FT5	xxx/B1083.11 F473	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-098	2460808.55	2025 May 13 0115:10	Falcon 9	FT5	xxx/B1088.6 F474	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-099	2460808.71	2025 May 13 0502:20	Falcon 9	FT5	xxx/B1067.28 F475	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-101	2460810.19	2025 May 14 1638:50	Falcon 9	FT5	xxx/B1090.4 F476	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-102	2460812.07	2025 May 16 1343:50	Falcon 9	FT5	xxx/B1093.2 F477	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-107	2460816.64	2025 May 21 0319:10	Falcon 9	FT5	xxx/B1095.1 F478	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-110	2460819.44	2025 May 23 2232:20	Falcon 9	FT5	xxx/B1075.18 F479	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-111	2460820.22	2025 May 24 1719:00	Falcon 9	FT5	xxx/B1069.24 F480	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-112	2460823.21	2025 May 27 1657:15	Falcon 9	FT5	xxx/B1082.13 F481	15.500	SPX	OS	-	C	Sat SSO D	SpaceX	-	-
2025-113	2460824.06	2025 May 28 1330:00	Falcon 9	FT5	xxx/B1080.19 F482	17.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-116	2460826.23	2025 May 30 1737:59	Falcon 9	FT5	xxx/B1092.4 F483	4.000	SPX	OS	-	CX/G	Sat GTO D	Wire	-	-
2025-117	2460827.34	2025 May 31 2010:00	Falcon 9	FT5	xxx/B1071.25 F484	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-119	2460829.70	2025 Jun 3 0443:40	Falcon 9	FT5	xxx/B1077.21 F485	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-120	2460831.49	2025 Jun 4 2340:30	Falcon 9	FT5	xxx/B1063.26 F486	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-122	2460833.70	2025 Jun 7 0454	Falcon 9	FT5	xxx/B1085.8 F487	6.400	SPX	OS	-	C	Sat GTO D	nasaspaceflight.com	-	-
2025-123	2460835.10	2025 Jun 8 1420:10	Falcon 9	FT5	xxx/B1088.7 F488	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-124	2460837.05	2025 Jun 10 1305:40	Falcon 9	FT5	xxx/B1083.12 F489	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-126	2460839.58	2025 Jun 13 0154:50	Falcon 9	FT5	xxx/B1081.15 F490	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-127	2460840.15	2025 Jun 13 1529:00	Falcon 9	FT5	xxx/B1078.21 F491	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-129	2460843.65	2025 Jun 17 0336:50	Falcon 9	FT5	xxx/B1093.3 F492	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2025-130	2460844.75	2025 Jun 18 0555:10	Falcon 9	FT5	xxx/B1090.5 F493	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-133	2460849.75	2025 Jun 23 0558:30	Falcon 9	FT5	xxx/B1069.25 F494	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-135	2460850.39	2025 Jun 23 2125:00	Falcon 9	FT5	xxx/B1071.26 F495	5.000	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-136	2460851.77	2025 Jun 25 0631:53	Falcon 9	FT5	xxx/B1094.2 F496	13.000	SPX	OS	-	CX	Sat ISS D	Wire	-	-
2025-137	2460852.33	2025 Jun 25 1954:50	Falcon 9	FT5	xxx/B1080.20 F497	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-139	2460854.68	2025 Jun 28 0426:00	Falcon 9	FT5	xxx/B1092.5 F498	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-142	2460855.22	2025 Jun 28 1713:00	Falcon 9	FT5	xxx/B1088.8 F499	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-
2025-143	2460858.38	2025 Jul 1 2104	Falcon 9	FT5	xxx/B1085.9 F500	2.800	SPX	OS	-	CX/OG	Sat LEO D	SpaceX	-	-
2025-144	2460858.77	2025 Jul 2 0628:10	Falcon 9	FT5	xxx/B1067.29 F501	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-147	2460864.85	2025 Jul 8 0821:00	Falcon 9	FT5	xxx/B1077.22 F502	16.500	SPX	OS	-	C	Sat LEO D	nasaspaceflight.com	-	-
2025-148	2460869.71	2025 Jul 13 0504	Falcon 9	FT5	xxx/B1083.13 F503	4.500	SPX	OS	-	C	Sat GTO D	nasaspaceflight.com	-	-
2025-150	2460872.59	2025 Jul 16 0205:20	Falcon 9	FT5	xxx/B1096.1? F504	15.500	SPX	OS	-	C	Sat LEO D	SpaceX	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2000-A08	2451788.50	2000 Sep 1	Al Fatah	-	F6	Test	-	-	-	IRAQ-A	-	-	-	1?	-	-
2000-A09	2451840.50	2000 Oct 23	Al Fatah	-	F8	Test	-	-	-	IRAQ-A	-	-	-	20?	-	-
2000-M52	2451866.50	2000 Nov 18	Al Fatah	-	F9	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M16	2451985.50	2001 Mar 17	Al Fatah	-	F11	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M17	2451995.50	2001 Mar 27	Al Fatah	-	F12	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-A19	2452028.50	2001 Apr 29	Al Fatah	-	F13	Test	-	-	-	IRAQ-A	-	-	-	20?	-	-
2001-A20	2452059.50	2001 May 30	Al Fatah	-	F14	Test	-	-	-	IRAQ-A	-	-	-	5?	-	-
2001-M18	2452129.50	2001 Aug 8	Al Fatah	-	F17	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-A21	2452129.50	2001 Aug 8	Al Fatah	-	F18	Test	-	-	-	IRAQ-A	-	-	-	2?	-	-
2001-A22	2452143.50	2001 Aug 22	Al Fatah	-	F19	Test	-	-	-	IRAQ-A	-	-	-	2?	-	-
2001-M19	2452158.50	2001 Sep 6	Al Fatah	-	F20	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-A23	2452216.50	2001 Nov 3	Al Fatah	-	F21	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M20	2452235.50	2001 Nov 22	Al Fatah	-	F23	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M21	2452248.50	2001 Dec 5	Al Fatah	-	F22	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M22	2452258.50	2001 Dec 15	Al Fatah	-	F24	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M23	2452261.50	2001 Dec 18	Al Fatah	-	F25	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2001-M24	2452263.50	2001 Dec 20	Al Fatah	-	F26	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M19	2452300.50	2002 Jan 26	Al Fatah	-	F37	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M20	2452347.50	2002 Mar 14	Al Fatah	-	F29	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M21	2452386.50	2002 Apr 22	Al Fatah	-	F46	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M22	2452434.50	2002 Jun 9	Al Fatah	-	F59	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M23	2452434.50	2002 Jun 9	Al Fatah	-	F60	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M24	2452477.50	2002 Jul 22	Al Fatah	-	F67	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-A08	2452504.50	2002 Aug 18	Al Fatah	-	F75	Test	-	-	-	IRAQ-A	-	-	-	2?	-	-
2002-M25	2452508.50	2002 Aug 22	Al Fatah	-	F76	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M26	2452510.50	2002 Aug 24	Al Fatah	-	F74	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M27	2452547.50	2002 Sep 30	Al Fatah	-	F70	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M28	2452547.50	2002 Sep 30	Al Fatah	-	F79	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M29	2452547.50	2002 Sep 30	Al Fatah	-	F80	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M30	2452575.50	2002 Oct 28	Al Fatah	-	F84	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M31	2452575.50	2002 Oct 28	Al Fatah	-	F78	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M32	2452603.50	2002 Nov 25	Al Fatah	-	F43	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2002-M33	2452603.50	2002 Nov 25	Al Fatah	-	F44	Test	-	-	-	IRAQ-A	-	-	-	60?	-	-
2003-M05	2452718.89	2003 Mar 20 0924	Al Fatah	-	-	TAA Thunder, Kuwait	-	-	-	IQBA	S?	-	-	60?	-	-
2003-M06	2452718.94	2003 Mar 20 1030	Al Fatah	-	-	Camp Doha	-	-	-	IQBA	S	-	-	60?	-	-
2003-M07	2452719.40	2003 Mar 20 2130	Al Fatah	-	-	Persian Gulf	-	-	-	IQBA	W	-	-	60?	-	-
2003-M08	2452719.47	2003 Mar 20 2320	Al Fatah	-	-	Camp Udari	-	-	-	IQBA	W?	-	-	60?	-	-
2003-M09	2452719.92	2003 Mar 21 1001	Al Fatah	-	-	Al Jahra/Camp Doha	-	-	-	IQBA	S?	-	-	60?	-	-
2003-M10	2452723.07	2003 Mar 24 1342	Al Fatah	-	-	Camp Doha	-	-	-	IQBA	N	-	-	60?	-	-
2003-M11	2452724.03	2003 Mar 25 1248	Al Fatah	-	-	Camp Commando,N Kuw	-	-	-	IQBA	W	-	-	60?	-	-
2003-A22	2452725.21	2003 Mar 26 1658	Al Fatah	-	-	Camp Doha?	-	-	-	IQBA	N	-	-	2?	-	-
2003-M12	2452725.85	2003 Mar 27 0831	Al Fatah	-	-	Camp Doha	-	-	-	IQBA	N	-	-	60?	-	-
2003-M14	2452726.37	2003 Mar 27 2056	Al Fatah	-	-	-	-	-	-	IQKK	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2000-A08	2451788.50	2000 Sep 1	Al Fatah	-	F6	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2000-A09	2451840.50	2000 Oct 23	Al Fatah	-	F8	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M52	2451866.50	2000 Nov 18	Al Fatah	-	F9	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M16	2451985.50	2001 Mar 17	Al Fatah	-	F11	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M17	2451995.50	2001 Mar 27	Al Fatah	-	F12	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A19	2452028.50	2001 Apr 29	Al Fatah	-	F13	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-A20	2452059.50	2001 May 30	Al Fatah	-	F14	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-M18	2452129.50	2001 Aug 8	Al Fatah	-	F17	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A21	2452129.50	2001 Aug 8	Al Fatah	-	F18	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-A22	2452143.50	2001 Aug 22	Al Fatah	-	F19	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-M19	2452158.50	2001 Sep 6	Al Fatah	-	F20	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A23	2452216.50	2001 Nov 3	Al Fatah	-	F21	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M20	2452235.50	2001 Nov 22	Al Fatah	-	F23	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M21	2452248.50	2001 Dec 5	Al Fatah	-	F22	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M22	2452258.50	2001 Dec 15	Al Fatah	-	F24	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M23	2452261.50	2001 Dec 18	Al Fatah	-	F25	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M24	2452263.50	2001 Dec 20	Al Fatah	-	F26	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M19	2452300.50	2002 Jan 26	Al Fatah	-	F37	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M20	2452347.50	2002 Mar 14	Al Fatah	-	F29	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M21	2452386.50	2002 Apr 22	Al Fatah	-	F46	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M22	2452434.50	2002 Jun 9	Al Fatah	-	F59	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M23	2452434.50	2002 Jun 9	Al Fatah	-	F60	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M24	2452477.50	2002 Jul 22	Al Fatah	-	F67	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A08	2452504.50	2002 Aug 18	Al Fatah	-	F75	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2002-M25	2452508.50	2002 Aug 22	Al Fatah	-	F76	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M26	2452510.50	2002 Aug 24	Al Fatah	-	F74	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M27	2452547.50	2002 Sep 30	Al Fatah	-	F70	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M28	2452547.50	2002 Sep 30	Al Fatah	-	F79	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M29	2452547.50	2002 Sep 30	Al Fatah	-	F80	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M30	2452575.50	2002 Oct 28	Al Fatah	-	F84	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M31	2452575.50	2002 Oct 28	Al Fatah	-	F78	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M32	2452603.50	2002 Nov 25	Al Fatah	-	F43	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-M33	2452603.50	2002 Nov 25	Al Fatah	-	F44	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2003-M05	2452718.89	2003 Mar 20 0924	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M06	2452718.94	2003 Mar 20 1030	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M07	2452719.40	2003 Mar 20 2130	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M08	2452719.47	2003 Mar 20 2320	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M09	2452719.92	2003 Mar 21 1001	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M10	2452723.07	2003 Mar 24 1342	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M11	2452724.03	2003 Mar 25 1248	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-A22	2452725.21	2003 Mar 26 1658	Al Fatah	-	-	0.000	IQA	MF	U	-	Weapon	OIF-TAMD	-	-
2003-M12	2452725.85	2003 Mar 27 0831	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-M14	2452726.37	2003 Mar 27 2056	Al Fatah	-	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2001-S40	2452153.33	2001 Aug 31 2000	GBI BV	-	BV-2	GMDS BVT-2	-	-	-	V	LF21	-	-	200?	-	-
2001-A04	2452257.26	2001 Dec 13 1815	GBI BV	-	BV-3	GMDS BVT-3	-	-	-	V	LF21	-	-	5?	-	-
2004-S01	2453014.28	2004 Jan 9 1840	GBI BV+	-	BV-5+	GMDS BVT-5 'BV+'	-	-	-	V	LF21	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2001-S40	2452153.33	2001 Aug 31 2000	GBI BV	-	BV-2	0.000	AFMC	MS	-	-	Test	Wire	-	-
2001-A04	2452257.26	2001 Dec 13 1815	GBI BV	-	BV-3	0.000	AFSPC	MF	U	-	Test	SMT011214	-	-
2004-S01	2453014.28	2004 Jan 9 1840	GBI BV+	-	BV-5+	0.000	AFSPC?	MS	-	-	Test	vandenberg.af.mil	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-A09	2446360.50	1985 Oct 22	GLCM	-	1	OT	-	-	-	V	HP-06	-	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-A09	2446360.50	1985 Oct 22	GLCM	-	1	0.000	AFTAC	MS	-	-	Test	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2014-S79	2457009.67	2014 Dec 18 0400	GSLV Mk III	a	LVM3-X	CARE	CARE/LVM3-X	-	-	SHAR	SLP	-	-	125	1600	B.Bengal
2017-031	2457910.00	2017 Jun 5 1158	GSLV Mk III	a	LVM3-D1	GSAT-19	GSAT-19	-	-	SHAR	SLP	-	-	35904	-	-
2018-089	2458436.98	2018 Nov 14 1138	GSLV Mk III	-	LVM3-D2	GSAT-29	GSAT-29	-	-	SHAR	SLP	-	-	36125	-	-
2019-042	2458686.88	2019 Jul 22 0913	LVM3	-	LVM3-M1	Chandrayaan-2	Chandrayaan-2	-	-	SHAR	SLP	-	-	150000	-	-
2022-138	2459875.28	2022 Oct 22 1837:40	LVM3	-	LVM3-M2	OneWeb India-1	OneWeb L14	-	-	SHAR	SLP	-	-	-	-	-
2023-043	2460029.65	2023 Mar 26 0330:20	LVM3	-	LVM3-M3	OneWeb India-2	OneWeb L18	-	-	SHAR	SLP	-	-	-	-	-
2023-098	2460139.88	2023 Jul 14 0905:17	LVM3	-	LVM3-M4	Chandrayaan-3	Chandrayaan-3	-	-	SHAR	SLP	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2014-S79	2457009.67	2014 Dec 18 0400	GSLV Mk III	a	LVM3-X	0.000	ISRO	SS	-	-	Test	Wire	-	-
2017-031	2457910.00	2017 Jun 5 1158	GSLV Mk III	a	LVM3-D1	3.136	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2018-089	2458436.98	2018 Nov 14 1138	GSLV Mk III	-	LVM3-D2	3.423	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2019-042	2458686.88	2019 Jul 22 0913	LVM3	-	LVM3-M1	5.348	ISRO	OS	-	G	Sat STO O	Wire	-	-
2022-138	2459875.28	2022 Oct 22 1837:40	LVM3	-	LVM3-M2	5.328	NSIL	OS	-	CO/C	Sat LEO O	Wire	-	-
2023-043	2460029.65	2023 Mar 26 0330:20	LVM3	-	LVM3-M3	5.328	NSIL	OS	-	CO/C	Sat LEO O	Wire	-	-
2023-098	2460139.88	2023 Jul 14 0905:17	LVM3	-	LVM3-M4	3.895	ISRO	DS	-	G	Sat GTO O	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A252	2437983.50	1962 Nov 15	Gamma Centauro	-	-	Dummy St 2	-	-	-	CELPA	-	-	-	5?	-	-
1962-A253	2437983.50	1962 Nov 15	Gamma Centauro	-	-	Dummy St 2	-	-	-	CELPA	-	-	-	5?	-	-
1962-A254	2437983.50	1962 Nov 15	Gamma Centauro	-	-	Dummy St 2	-	-	-	CELPA	-	-	-	5?	-	-
1962-A255	2438004.50	1962 Dec 6	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1963-A189	2438241.50	1963 Aug	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1963-A211	2438241.50	1963 Aug	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1963-A212	2438241.50	1963 Aug	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1964-A109	2438603.50	1964 Jul 27	Gamma Centauro	-	-	-	-	-	-	PDI	-	-	-	35	-	-
1965-A24	2438797.50	1965 Feb 6	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1965-A183	2438797.50	1965 Feb 6	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-
1965-A25	2438798.10	1965 Feb 6 1430	Gamma Centauro	-	14	Matienzo Ionos XR	-	-	-	MATZ	-	-	-	35?	-	-
1965-A185	2438798.42	1965 Feb 6 2200	Gamma Centauro	-	16	Matienzo Ionos XR	-	-	-	MATZ	-	-	-	35?	-	-
1965-A186	2438800.42	1965 Feb 8 2203	Gamma Centauro	-	15	Matienzo Ionos XR	-	-	-	MATZ	-	-	-	35?	-	-
1965-A184	2438799.50	1965 Feb 8	Gamma Centauro	-	-	-	-	-	-	CELPA	-	-	-	35?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A252	2437983.50	1962 Nov 15	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	Telex621122	90-100 km claimed
1962-A253	2437983.50	1962 Nov 15	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	Telex621122	Dates suspect
1962-A254	2437983.50	1962 Nov 15	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	Telex621122	-
1962-A255	2438004.50	1962 Dec 6	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	Telex621122	-
1963-A189	2438241.50	1963 Aug	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	JJSerra	-
1963-A211	2438241.50	1963 Aug	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	-	-
1963-A212	2438241.50	1963 Aug	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	-	-
1964-A109	2438603.50	1964 Jul 27	Gamma Centauro	-	-	0.000	IIAE	SS	-	AERAR/	Meteo	DeLeon	primahost3.prima.com	-
1965-A24	2438797.50	1965 Feb 6	Gamma Centauro	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	AASH28-455	primahost3.prima.com	-
1965-A183	2438797.50	1965 Feb 6	Gamma Centauro	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	AASH28-455	-	-
1965-A25	2438798.10	1965 Feb 6 1430	Gamma Centauro	-	14	0.000	IIAE	SS	-	IIAE/	Aeron/Ionos	AASH28-455	-	-
1965-A185	2438798.42	1965 Feb 6 2200	Gamma Centauro	-	16	0.000	IIAE	SS	-	IIAE/	Aeron/Ionos	AASH28-455	-	-
1965-A186	2438800.42	1965 Feb 8 2203	Gamma Centauro	-	15	0.000	IIAE	SS	-	IIAE/	Aeron/Ionos	AASH28-455	-	-
1965-A184	2438799.50	1965 Feb 8	Gamma Centauro	-	-	0.000	IIAE	SS	-	IIAE/	Meteo	AASH28-455	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A176	2436039.08	1957 Jul 19 1400	F89J/Genie	-	PLUMBBOB JOHN	-	-	-	F-89J-547	INSP	RW13/31	NTS	Area 10	6	-	-
1960-A72	2437015.50	1960 Mar 22	Astrobee 500	-	Geodetic flares	-	-	-	-	EGL	-	-	-	0	-	-
1966-A48	2439212.50	1966 Mar 28	ALARR	-	-	-	-	-	F-4C-654	HADC	RW07/25?	WS	LP1	46	-	-
1966-A609	2439306.50	1966 Jul	ALARR	-	-	-	-	-	F-4C-654	HADC	RW07/25?	WS	LP1	62	-	-
1966-S622	2439447.34	1966 Nov 17 2015	ALARR	-	-	Leonids	-	-	F-4C-654	HADC	RW07/25?	WS	LP1	100?	-	-
1967-A173	2439521.50	1967 Feb	ALARR	-	-	-	-	-	F-4C-654	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S234	2439946.50	1968 Apr	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S235	2439946.50	1968 Apr	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S295	2439976.50	1968 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S296	2439976.50	1968 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S559	2440160.50	1968 Nov	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1968-S560	2440160.50	1968 Nov	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S157	2440280.50	1969 Mar	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S306	2440341.50	1969 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S307	2440341.50	1969 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S308	2440341.50	1969 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S309	2440341.50	1969 May	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S472	2440464.50	1969 Sep	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S473	2440464.50	1969 Sep	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S474	2440464.50	1969 Sep	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1969-S523	2440494.50	1969 Oct	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1970-S274	2440676.50	1970 Apr	ALARR	-	-	-	-	-	F-4D-A	HADC	RW07/25?	WS	LP1	100?	-	-
1971-S560	2441272.47	1971 Nov 16 2318	Ute Tomahawk	-	CRL A09.106-5	Release	-	-	-	EGL	-	-	-	167	-	-
1972-S128	2441394.88	1972 Mar 18 0903	Ute Apache	-	-	-	-	-	-	PF	-	-	-	200?	-	-
1972-A27	2441405.01	1972 Mar 28 1212	Paiute Apache	-	-	-	-	-	-	PF	-	-	-	0?	-	-
1972-S169	2441422.54	1972 Apr 15 0104	Paiute Tomahawk	-	CRL A10.005-1	Release	-	-	-	EGL	-	-	-	229	-	-
1972-S418	2441658.74	1972 Dec 7 0545	Ute Tomahawk	-	CRL A09.107-2	Auroral composition	-	-	-	FC	-	-	-	171	-	-
1973-S119	2441765.94	1973 Mar 24 1031	Paiute Tomahawk	-	CRL A10.205-2	ICECAP 73A	-	-	-	PF	-	-	-	213	-	-
1973-S122	2441768.90	1973 Mar 27 0938:25	Paiute Tomahawk	-	CRL A10.216-3	ICECAP 73B	-	-	-	PF	-	-	-	235	-	-
1973-S149	2441788.92	1973 Apr 16 1004	Ute Tomahawk	-	CRL A09.209-1	Photometers	-	-	-	WS	-	-	-	195	-	-
1973-S150	2441789.00	1973 Apr 16 1158	Ute Tomahawk	-	CRL A09.102-1	Photometers	-	-	-	WS	-	-	-	209	-	-
1973-S199	2441846.17	1973 Jun 12 1609	Ute Tomahawk	-	CRL A09.210-1	D/E region ions	-	-	-	FC	-	-	-	124	-	-
1973-S200	2441846.18	1973 Jun 12 1617	Ute Tomahawk	-	CRL A09.210-2	D/E region ions	-	-	-	FC	-	-	-	125	-	-
1973-S302	2441936.64	1973 Sep 11 0319	Ute Tomahawk	-	CRL A09.214-1	Vehicle potential	-	-	-	WS	-	-	-	160	-	-
1973-S309	2441944.16	1973 Sep 18 1550:15	Ute Tomahawk	-	CRL A09.312-5	Polar disturbed ion.	-	-	-	PF	-	-	-	127	-	-
1973-S310	2441944.22	1973 Sep 18 1721:39	Ute Tomahawk	-	CRL A09.312-4	Polar disturbed ion.	-	-	-	PF	-	-	-	129	-	-
1973-S318	2441952.32	1973 Sep 26 1942	Paiute Tomahawk	-	CRL A10.306-1	O2/O3/X-ray	-	-	-	CLBI	-	-	-	288	-	-
1973-S356	2441974.51	1973 Oct 19 0020	Ute Tomahawk	-	CRL A09.301-3	Release	-	-	-	EGL	-	-	-	228	-	-
1973-S360	2441975.49	1973 Oct 19 2342	Ute Tomahawk	-	CRL A09.106-3	Release	-	-	-	EGL	-	-	-	176	-	-
1973-A63	2441976.50	1973 Oct 21 0003	Paiute Tomahawk	-	CRL A10.207-3	Release	-	-	-	EGL	-	-	-	18	-	-
1973-S434	2442027.31	1973 Dec 10 1930	Ute Tomahawk	-	CRL A09.107-4	Composition	-	-	-	FC	-	-	-	101	-	-
1974-A09	2442092.78	1974 Feb 14 0644	Ute Tomahawk	-	CRL A09.307-3	Density HI Bal	-	-	-	PF	-	-	-	10	-	-
1974-S104	2442094.92	1974 Feb 16 1003	Ute Tomahawk	-	CRL A09.400-1	Density	-	-	-	WS	-	-	-	190	-	-
1974-S152	2442134.67	1974 Mar 28 0405	Ute Tomahawk	-	CRL A09.303-3	Churchill 74	-	-	-	FC	-	-	-	129	-	-
1974-S160	2442140.66	1974 Apr 3 0347	Ute Tomahawk	-	CRL A09.303-1	Churchill 74	-	-	-	FC	-	-	-	209	-	-
1974-S164	2442141.30	1974 Apr 3 1918	Ute Tomahawk	-	CRL A09.303-4	Churchill 74	-	-	-	FC	-	-	-	129	-	-
1974-S168	2442146.72	1974 Apr 9 0521	Ute Tomahawk	-	CRL A09.303-2	Churchill 74	-	-	-	FC	-	-	-	169	-	-
1974-S176	2442155.86	1974 Apr 18 0840:15	Paiute Tomahawk	-	CRL A10.312-3	ICECAP 74B Echo 37	-	-	-	PF	-	-	-	185	-	-
1974-S239	2442228.33	1974 Jun 29 2000	Ute Tomahawk	-	CRL A09.213-2	ALADDIN 74 NMS/E	-	-	-	WI	-	-	-	110	-	-
1974-S243	2442228.39	1974 Jun 29 2120	Ute Tomahawk	-	CRL A09.301-9	ALADDIN 74	-	-	-	WI	-	-	-	150?	-	-
1974-S246	2442228.55	1974 Jun 30 0106	Ute Tomahawk	-	CRL A09.301-1	ALADDIN 74 TMA/Ba	-	-	-	WI	-	-	-	203	-	-
1974-A27	2442228.55	1974 Jun 30 0111	Ute Tomahawk	-	CRL A09.001-3	ALADDIN 74 IonMS	-	-	-	WI	-	-	-	16	-	-
1974-A28	2442228.56	1974 Jun 30 0126	Ute Tomahawk	-	CRL A09.301-2	ALADDIN 74 TMA/Ba	-	-	-	WI	-	-	-	0?	-	-
1974-S248	2442228.66	1974 Jun 30 0345	Ute Tomahawk	-	CRL A09.301-5	ALADDIN 74 Na/Li	-	-	-	WI	-	-	-	201	-	-
1974-S251	2442228.75	1974 Jun 30 0558	Ute Tomahawk	-	CRL A09.207-4	ALADDIN 74 Sphere	-	-	-	WI	-	-	-	188	-	-
1974-S253	2442228.81	1974 Jun 30 0730	Ute Tomahawk	-	CRL A09.301-4	ALADDIN 74 TMA/Phot	-	-	-	WI	-	-	-	178	-	-
1974-S254	2442228.83	1974 Jun 30 0750	Ute Tomahawk	-	CRL A09.213-1	ALADDIN 74	-	-	-	WI	-	-	-	140	-	-
1974-S255	2442228.86	1974 Jun 30 0835	Paiute Tomahawk	-	CRL A10.301-6	ALADDIN 74 TMA/Ba	-	-	-	WI	-	-	-	191	-	-
1974-A29	2442228.86	1974 Jun 30 0845	Ute Tomahawk	-	CRL A09.001-4	ALADDIN 74 IonMS	-	-	-	WI	-	-	-	17	-	-
1974-S258	2442228.92	1974 Jun 30 1001	Paiute Tomahawk	-	CRL A10.209-2	ALADDIN 74 Sphere	-	-	-	WI	-	-	-	228	-	-
1974-S260	2442229.04	1974 Jun 30 1255	Ute Tomahawk	-	CRL A09.105-9	ALADDIN 74 Na-Li	-	-	-	WI	-	-	-	152	-	-
1974-S261	2442229.22	1974 Jun 30 1720	Ute Tomahawk	-	CRL A09.301-7	ALADDIN 74 Na-LI	-	-	-	WI	-	-	-	180	-	-
1974-S281	2442276.71	1974 Aug 17 0500	Ute Tomahawk	-	CRL A09.214-2	Vehicle Potential	-	-	-	WS	-	-	-	161	-	-
1974-S413	2442395.43	1974 Dec 13 2225	Ute Tomahawk	-	CRL A09.407-1	10-inch Sphere	-	-	-	WS	-	-	-	90	-	-
1975-S36	2442427.37	1975 Jan 14 2056	Ute Tomahawk	-	CRL A09.301-8	ALADDIN 75 Rel Test	-	-	-	WI	-	-	-	235	-	-
1975-S37	2442428.45	1975 Jan 15 2246	Ute Tomahawk	-	CRL A09.105-8	ALADDIN 75 Rel Al	-	-	-	WI	-	-	-	159	-	-
1975-S39	2442430.45	1975 Jan 17 2243	Ute Tomahawk	-	CRL A09.301-9	ALADDIN 75 Sph/TMA	Sphere 79/AF-1	-	-	WI	-	-	-	190	-	-
1975-S40	2442430.69	1975 Jan 18 0435	Paiute Tomahawk	-	CRL A10.213-1	ALADDIN 75 Mass Spec	-	-	-	WI	-	-	-	159	-	-
1975-S41	2442430.70	1975 Jan 18 0445	Paiute Tomahawk	-	CRL A10.301-10	ALADDIN 75 NO/Photom	-	-	-	WI	-	-	-	183	-	-
1975-S117	2442512.91	1975 Apr 10 0954:00	Paiute Tomahawk	-	CRL A10.302-3	AEOLUS Release,Sph	-	-	-	FC	-	-	-	216	-	-
1975-S118	2442512.91	1975 Apr 10 0954:30	Paiute Tomahawk	-	CRL A10.302-4	AEOLUS Release	-	-	-	FC	-	-	-	219	-	-
1975-S119	2442512.92	1975 Apr 10 1000:00	Paiute Tomahawk	-	CRL A10.403-3	AEOLUS Mass Spec/E	-	-	-	FC	-	-	-	211	-	-
1975-S129	2442523.88	1975 Apr 21 0907:00	Paiute Tomahawk	-	CRL A10.302-1	AEOLUS Release/E	-	-	-	FC	-	-	-	213	-	-
1975-S130	2442523.88	1975 Apr 21 0907:30	Paiute Tomahawk	-	CRL A10.302-2	AEOLUS Release	-	-	-	FC	-	-	-	220	-	-
1975-S131	2442523.88	1975 Apr 21 0912:00	Paiute Tomahawk	-	CRL A10.403-1	AEOLUS Mass Spec	-	-	-	FC	-	-	-	222	-	-
1975-S136	2442527.68	1975 Apr 25 0413:00	Paiute Tomahawk	-	CRL A10.302-5	AEOLUS TMA/Ba	-	-	-	FC	-	-	-	214	-	-
1975-S137	2442527.68	1975 Apr 25 0413:30	Paiute Tomahawk	-	CRL A10.302-7	AEOLUS TMA/Ba	-	-	-	FC	-	-	-	220	-	-
1975-S138	2442527.68	1975 Apr 25 0418:00	Paiute Tomahawk	-	CRL A10.403-2	AEOLUS Mass Spec	-	-	-	FC	-	-	-	217	-	-
1975-S244	2442639.72	1975 Aug 15 0521	Paiute Tomahawk	-	CRL A10.406-2	ESCAPE I (Sphere)	Sphere (10in)	-	-	VS	PLC-C	-	-	272	-	-
1975-S276	2442674.32	1975 Sep 18 1947	Paiute Tomahawk	-	CRL A10.304-1	NMS	-	-	-	WS	-	-	-	128	-	-
1975-S278	2442674.72	1975 Sep 19 0515	Paiute Tomahawk	-	CRL A10.304-2	NMS	-	-	-	WS	-	-	-	128	-	-
1975-S304	2442702.19	1975 Oct 16 1630	Paiute Tomahawk	-	CRL A10.000-1	DCST	-	-	-	WS	-	-	-	263	-	-
1975-S351	2442758.71	1975 Dec 12 0509	Ute Tomahawk	-	CRL A09.406-1	ESCAPE II (Sphere)	Sphere AF-4 (7in)	-	-	VS	PLC-C	-	-	164	-	-
1976-S75	2442801.44	1976 Jan 23 2234	Ute Tomahawk	-	GL A09.402-2	Winter Anomaly	-	-	-	WI	-	-	-	124	-	-
1976-S108	2442830.55	1976 Feb 22 0118	Paiute Tomahawk	-	GL A10.504-1	ICECAP 76	-	-	-	PF	-	-	-	248	-	-
1976-S122	2442841.24	1976 Mar 3 1744	Paiute Tomahawk	-	GL A10.507-1	ICECAP 76 Sphere/Ph.	Sphere (10in)	-	-	PF	-	-	-	210	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A24	2442894.78	1976 Apr 26 0648	Paiute Tomahawk	-	GL A10.403-4	Auroral ions	-	-	-	FC	-	-	-	19	-	-
1976-S174	2442898.69	1976 Apr 30 0435	Paiute Tomahawk	-	GL A10.001-2	Auroral ions	-	-	-	FC	-	-	-	218	-	-
1977-S253	2443411.01	1977 Sep 24 1215	Paiute Tomahawk	-	GL A10.705-1	DMSP MS SP	-	-	-	WS	-	-	-	195	-	-
1979-S82	2443931.20	1979 Feb 26 1652:30	Paiute Tomahawk	-	GL A10.802-1	-	-	-	-	RLAKE	CHK	-	-	115	-	-
1979-S84	2443931.24	1979 Feb 26 1741	Paiute Tomahawk	-	GL A10.802-2	-	-	-	-	RLAKE	CHK	-	-	116	-	-
1980-S191	2444535.35	1980 Oct 22 2031:00	Paiute Tomahawk	-	GL A10.901-1	SPE-1	-	-	-	PF	-	-	-	88	-	-
1981-S80	2444670.86	1981 Mar 7 0838	Paiute Tomahawk	-	GL A10.901-3	SPE-3/AURORAL E4	-	-	-	PF	-	-	-	187	-	-
1981-S166	2444904.40	1981 Oct 26 2130	Paiute Tomahawk	-	GL A10.901-2	SPE-2	-	-	-	PF	-	-	-	96	-	-
1988-A10	2447432.50	1988 Sep 28	Genie Genie	-	RSP-101	RSP-101/Genie	-	-	-	TTR	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A176	2436039.08	1957 Jul 19 1400	F89J/Genie	-	PLUMBBOB JOHN	0.000	SAND	AS	-	DOE/	Nuclear Test	DNA-6006F	-	-
1960-A72	2437015.50	1960 Mar 22	Astrobee 500	-	Geodetic flares	0.000	AFCRL	SF	U	AFCRL/Swenson	Test	Alway	-	-
1966-A48	2439212.50	1966 Mar 28	ALARR	-	-	0.000	AFSWC	SS	-	AFSWC/	Test	SP-4007	-	-
1966-A609	2439306.50	1966 Jul	ALARR	-	-	0.000	AFSWC	SS	-	AFSWC/	Test	FNER	-	-
1966-S622	2439447.34	1966 Nov 17 2015	ALARR	-	-	0.000	AFSWC	SS	-	AFSWC/AFTAC/?	Test/Meteorites	JGR75,859	Quest3-1-34	-
1967-A173	2439521.50	1967 Feb	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	AWST670227-40	-	-
1968-S234	2439946.50	1968 Apr	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1968-S235	2439946.50	1968 Apr	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1968-S295	2439976.50	1968 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1968-S296	2439976.50	1968 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1968-S559	2440160.50	1968 Nov	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1968-S560	2440160.50	1968 Nov	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S157	2440280.50	1969 Mar	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S306	2440341.50	1969 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S307	2440341.50	1969 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S308	2440341.50	1969 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S309	2440341.50	1969 May	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S472	2440464.50	1969 Sep	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S473	2440464.50	1969 Sep	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S474	2440464.50	1969 Sep	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1969-S523	2440494.50	1969 Oct	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1970-S274	2440676.50	1970 Apr	ALARR	-	-	0.000	AFSWC	SU	-	AFSWC/	Test?	WSMR	-	-
1971-S560	2441272.47	1971 Nov 16 2318	Ute Tomahawk	-	CRL A09.106-5	0.000	AFCRL	SS	-	AFCRL/Vickery	Aeron/Test	AFCRL	-	-
1972-S128	2441394.88	1972 Mar 18 0903	Ute Apache	-	-	0.000	NSF	SS	-	USU/Baker	Auroral/Airglow	WWW-PFRR	-	-
1972-A27	2441405.01	1972 Mar 28 1212	Paiute Apache	-	-	0.000	NSF	SF	U	DENV/Barcus	Auroral	WWW-PFRR	-	-
1972-S169	2441422.54	1972 Apr 15 0104	Paiute Tomahawk	-	CRL A10.005-1	0.000	AFCRL	SS	-	AFCRL/Mansfield	Aeron/Test	AFCRL	-	-
1972-S418	2441658.74	1972 Dec 7 0545	Ute Tomahawk	-	CRL A09.107-2	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1973-S119	2441765.94	1973 Mar 24 1031	Paiute Tomahawk	-	CRL A10.205-2	0.000	AFCRL	SS	-	AFCRL/Ulwick	Auroral	AFCRL	-	-
1973-S122	2441768.90	1973 Mar 27 0938:25	Paiute Tomahawk	-	CRL A10.216-3	0.000	AFCRL	SS	-	AFCRL/Faire,Champion	Aeron	AFCRL	-	-
1973-S149	2441788.92	1973 Apr 16 1004	Ute Tomahawk	-	CRL A09.209-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1973-S150	2441789.00	1973 Apr 16 1158	Ute Tomahawk	-	CRL A09.102-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1973-S199	2441846.17	1973 Jun 12 1609	Ute Tomahawk	-	CRL A09.210-1	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron/Plasma	AFCRL	-	-
1973-S200	2441846.18	1973 Jun 12 1617	Ute Tomahawk	-	CRL A09.210-2	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron/Plasma	FC	AFCRL	-
1973-S302	2441936.64	1973 Sep 11 0319	Ute Tomahawk	-	CRL A09.214-1	0.000	AFCRL	SS	-	AFCRL/Sherman	Test	AFCRL	-	-
1973-S309	2441944.16	1973 Sep 18 1550:15	Ute Tomahawk	-	CRL A09.312-5	0.000	AFCRL	SS	-	AFCRL/Nadile	Ionos	www.pfrr.alaska.edu	AFCRL	-
1973-S310	2441944.22	1973 Sep 18 1721:39	Ute Tomahawk	-	CRL A09.312-4	0.000	AFCRL	SS	-	AFCRL/Nadile	Ionos	AFCRL	-	-
1973-S318	2441952.32	1973 Sep 26 1942	Paiute Tomahawk	-	CRL A10.306-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1973-S356	2441974.51	1973 Oct 19 0020	Ute Tomahawk	-	CRL A09.301-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S360	2441975.49	1973 Oct 19 2342	Ute Tomahawk	-	CRL A09.106-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-A63	2441976.50	1973 Oct 21 0003	Paiute Tomahawk	-	CRL A10.207-3	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S434	2442027.31	1973 Dec 10 1930	Ute Tomahawk	-	CRL A09.107-4	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1974-A09	2442092.78	1974 Feb 14 0644	Ute Tomahawk	-	CRL A09.307-3	0.000	AFCRL	SF	U	AFCRL/Faire	Aeron	AFCRL	-	-
1974-S104	2442094.92	1974 Feb 16 1003	Ute Tomahawk	-	CRL A09.400-1	0.000	AFCRL	SS	-	AFCRL/Geary	Aeron	AFCRL	-	-
1974-S152	2442134.67	1974 Mar 28 0405	Ute Tomahawk	-	CRL A09.303-3	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron/Ionos	AFCRL	-	-
1974-S160	2442140.66	1974 Apr 3 0347	Ute Tomahawk	-	CRL A09.303-1	0.000	AFCRL	SS	-	AFCRL/Narcisi	Ionos	AFCRL	-	-
1974-S164	2442141.30	1974 Apr 3 1918	Ute Tomahawk	-	CRL A09.303-4	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1974-S168	2442146.72	1974 Apr 9 0521	Ute Tomahawk	-	CRL A09.303-2	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1974-S176	2442155.86	1974 Apr 18 0840:15	Paiute Tomahawk	-	CRL A10.312-3	0.000	AFCRL	SS	-	AFCRL/Ulwick	Plasma	AFCRL	-	-
1974-S239	2442228.33	1974 Jun 29 2000	Ute Tomahawk	-	CRL A09.213-2	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron/Plasma	AFCRL	JATP42,577	-
1974-S243	2442228.39	1974 Jun 29 2120	Ute Tomahawk	-	CRL A09.301-9	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDC	-	-
1974-S246	2442228.55	1974 Jun 30 0106	Ute Tomahawk	-	CRL A09.301-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	JATP41,1171	-
1974-A27	2442228.55	1974 Jun 30 0111	Ute Tomahawk	-	CRL A09.001-3	0.000	AFCRL	SF	U	AFCRL/Narcisi	Aeron	AFCRL	-	-
1974-A28	2442228.56	1974 Jun 30 0126	Ute Tomahawk	-	CRL A09.301-2	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron Ba	AFCRL	JATP41,1171	-
1974-S248	2442228.66	1974 Jun 30 0345	Ute Tomahawk	-	CRL A09.301-5	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	JATP41,1171	-
1974-S251	2442228.75	1974 Jun 30 0558	Ute Tomahawk	-	CRL A09.207-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Faire	Aeron	AFCRL	JATP41,1171	-
1974-S253	2442228.81	1974 Jun 30 0730	Ute Tomahawk	-	CRL A09.301-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	JATP41,1171	-
1974-S254	2442228.83	1974 Jun 30 0750	Ute Tomahawk	-	CRL A09.213-1	0.000	AFCRL	SS	-	AFCRL/Rees?	Aeron	WDCRF	-	-
1974-S255	2442228.86	1974 Jun 30 0835	Paiute Tomahawk	-	CRL A10.301-6	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	JATP41,1171	-
1974-A29	2442228.86	1974 Jun 30 0845	Ute Tomahawk	-	CRL A09.001-4	0.000	AFCRL	SF	U	AFCRL/Narcisi	Aeron	AFCRL	-	-
1974-S258	2442228.92	1974 Jun 30 1001	Paiute Tomahawk	-	CRL A10.209-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	JGR83,978	-
1974-S260	2442229.04	1974 Jun 30 1255	Ute Tomahawk	-	CRL A09.105-9	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron release	AFCRL	JATP41,1171	-
1974-S261	2442229.22	1974 Jun 30 1720	Ute Tomahawk	-	CRL A09.301-7	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron release	JATP41,1171	JATP41,1171	-
1974-S281	2442276.71	1974 Aug 17 0500	Ute Tomahawk	-	CRL A09.214-2	0.000	AFCRL	SS	-	AFCRL/Sherman	Test	AFCRL	-	-
1974-S413	2442395.43	1974 Dec 13 2225	Ute Tomahawk	-	CRL A09.407-1	0.000	AFCRL	SS	-	AFCRL/Geary	Aeron	AFCRL	AFGL-TR-80-0026	-
1975-S36	2442427.37	1975 Jan 14 2056	Ute Tomahawk	-	CRL A09.301-8	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Gustaf.	Aeron/Test	AFCRL	-	-
1975-S37	2442428.45	1975 Jan 15 2246	Ute Tomahawk	-	CRL A09.105-8	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1975-S39	2442430.45	1975 Jan 17 2243	Ute Tomahawk	-	CRL A09.301-9	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Faire	Aeron/Plasma	AFCRL	AFGL-TR-80-0026	-
1975-S40	2442430.69	1975 Jan 18 0435	Paiute Tomahawk	-	CRL A10.213-1	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1975-S41	2442430.70	1975 Jan 18 0445	Paiute Tomahawk	-	CRL A10.301-10	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1975-S117	2442512.91	1975 Apr 10 0954:00	Paiute Tomahawk	-	CRL A10.302-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Faire	Aeron	AFCRL	-	A10.303-3?
1975-S118	2442512.91	1975 Apr 10 0954:30	Paiute Tomahawk	-	CRL A10.302-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Macleod	Aeron	AFCRL	-	-
1975-S119	2442512.92	1975 Apr 10 1000:00	Paiute Tomahawk	-	CRL A10.403-3	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1975-S129	2442523.88	1975 Apr 21 0907:00	Paiute Tomahawk	-	CRL A10.302-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1975-S130	2442523.88	1975 Apr 21 0907:30	Paiute Tomahawk	-	CRL A10.302-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1975-S131	2442523.88	1975 Apr 21 0912:00	Paiute Tomahawk	-	CRL A10.403-1	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1975-S136	2442527.68	1975 Apr 25 0413:00	Paiute Tomahawk	-	CRL A10.302-5	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1975-S137	2442527.68	1975 Apr 25 0413:30	Paiute Tomahawk	-	CRL A10.302-7	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1975-S138	2442527.68	1975 Apr 25 0418:00	Paiute Tomahawk	-	CRL A10.403-2	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1975-S244	2442639.72	1975 Aug 15 0521	Paiute Tomahawk	-	CRL A10.406-2	0.000	AFSC/CRLI	SS	-	AFCRL/Faire	Aeron	AFCRL	VAFB	-
1975-S276	2442674.32	1975 Sep 18 1947	Paiute Tomahawk	-	CRL A10.304-1	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1975-S278	2442674.72	1975 Sep 19 0515	Paiute Tomahawk	-	CRL A10.304-2	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1975-S304	2442702.19	1975 Oct 16 1630	Paiute Tomahawk	-	CRL A10.000-1	0.000	AFCRL	SS	-	AFCRL/Mansfield	Test	AFCRL	-	-
1975-S351	2442758.71	1975 Dec 12 0509	Ute Tomahawk	-	CRL A09.406-1	0.000	AFSC/CRLI	SS	-	AFCRL/Faire	Aeron	AFCRL	VAFB	406-2?
1976-S75	2442801.44	1976 Jan 23 2234	Ute Tomahawk	-	GL A09.402-2	0.000	AFGL2	SS	-	AFCRL/Philbrick	Aeron	AFCRL	SR19,139	-
1976-S108	2442830.55	1976 Feb 22 0118	Paiute Tomahawk	-	GL A10.504-1	0.000	AFGL2/DNA	SS	-	AFCRL/Weeks,Faire	Aeron	AFCRL	-	-
1976-S122	2442841.24	1976 Mar 3 1744	Paiute Tomahawk	-	GL A10.507-1	0.000	AFGL2	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A24	2442894.78	1976 Apr 26 0648	Paiute Tomahawk	-	GL A10.403-4	0.000	AFGL2	SF	U	AFCRL/Narcisi	Aeron	FC	AFCRL	-
1976-S174	2442898.69	1976 Apr 30 0435	Paiute Tomahawk	-	GL A10.001-2	0.000	AFGL2	SS	-	AFCRL/Narcisi	Aeron	FC	AFCRL	-
1977-S253	2443411.01	1977 Sep 24 1215	Paiute Tomahawk	-	GL A10.705-1	0.000	AFGL2	SS	-	AFCRL/Philbrick	Aeron	WDCRF	-	-
1979-S82	2443931.20	1979 Feb 26 1652:30	Paiute Tomahawk	-	GL A10.802-1	0.000	AFGL2	SS	-	AFCRL/Narcisi	Eclipse/Aeron	JATP45-461	-	-
1979-S84	2443931.24	1979 Feb 26 1741	Paiute Tomahawk	-	GL A10.802-2	0.000	AFGL2	SS	-	AFCRL/Narcisi	Eclipse/Aeron	JATP45-461	-	-
1980-S191	2444535.35	1980 Oct 22 2031:00	Paiute Tomahawk	-	GL A10.901-1	0.000	AFGL2	SS	-	AFCRL/Narcisi	Plasma	WDCRF	AFCRL	-
1981-S80	2444670.86	1981 Mar 7 0838	Paiute Tomahawk	-	GL A10.901-3	0.000	AFGL2	SS	-	AFCRL/	Auroral	WDCRF	AFCRL	-
1981-S166	2444904.40	1981 Oct 26 2130	Paiute Tomahawk	-	GL A10.901-2	0.000	AFGL2	SS	-	AFCRL/Narcisi	Ionos/Particles	WDCRF	AFCRL	-
1988-A10	2447432.50	1988 Sep 28	Genie Genie	-	RSP-101	0.000	SAND	AS	-	SAND/Lapetina	Test	SAND90-8211	SandNews890224	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A254	2436758.50	1959 Jul 9	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1959-A255	2436801.50	1959 Aug 21	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1959-A256	2436890.50	1959 Nov 18	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1960-A337	2437087.50	1960 Jun 2	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1960-A338	2437156.50	1960 Aug 10	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1960-A339	2437199.50	1960 Sep 22	Gosling-Lobster	-	-	Jaguar R&D	-	-	-	WOO	-	-	-	20?	-	-
1961-M10	2437413.62	1961 Apr 24 0253	HAD	-	HAD 101 (HAT 201?)	-	-	-	-	WOO	LA2 HAD	-	-	58	-	-
1961-S426	2437647.94	1961 Dec 14 1029	HAD	-	HAD 103	-	-	-	-	WOO	LA2 HAD	-	-	130	-	-
1962-S81	2437752.89	1962 Mar 29 0928	HAD	-	HAD 105	Sphere	-	-	-	WOO	LA2 HAD	-	-	125	-	-
1962-S200	2437841.86	1962 Jun 26 0838	HAD	-	HAD 108	Sphere	-	-	-	WOO	LA2 HAD	-	-	116	-	-
1962-S313	2437903.88	1962 Aug 27 0908	HAD	-	HAD 107	Sphere	-	-	-	WOO	LA2 HAD	-	-	114	-	-
1962-S418	2437961.91	1962 Oct 24 0946	HAD	-	HAD 111	Sphere	-	-	-	WOO	LA2 HAD	-	-	133	-	-
1962-S494	2437995.93	1962 Nov 27 1017	HAD	-	HAD 112	Sphere	-	-	-	WOO	LA2 HAD	-	-	113	-	-
1962-S529	2438002.94	1962 Dec 4 1028	HAD	-	HAD 113	Sphere	-	-	-	WOO	LA2 HAD	-	-	113	-	-
1963-S27	2438059.94	1963 Jan 30 1032	HAD	-	HAD 115	Sphere	-	-	-	WOO	LA2 HAD	-	-	94	-	-
1963-S90	2438100.91	1963 Mar 12 0950	HAD	-	HAD 116	Sphere	-	-	-	WOO	LA2 HAD	-	-	124	-	-
1963-S118	2438109.90	1963 Mar 21 0930	HAD	-	HAD 118	Sphere	-	-	-	WOO	LA2 HAD	-	-	133	-	-
1963-M51	2438369.49	1963 Dec 5 2342	HAD	-	HAD 301	UV absorption	-	-	-	WOO	LA2 HAD	-	-	54	-	-
1963-S598	2438376.30	1963 Dec 12 1906	HAD	-	HAD 122	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1964-M05	2438437.91	1964 Feb 12 0946	HAD	-	HAD 124	-	-	-	-	WOO	LA2 HAD	-	-	75	-	-
1964-S132	2438458.91	1964 Mar 4 0953	HAD	-	HAD 127	Sphere	-	-	-	WOO	LA2 HAD	-	-	111	-	-
1964-S207	2438499.86	1964 Apr 14 0832	HAD	-	HAD 129	Sphere	-	-	-	WOO	LA2 HAD	-	-	121	-	-
1964-S245	2438529.86	1964 May 14 0837	HAD	-	HAD 126	Sphere	-	-	-	WOO	LA2 HAD	-	-	88	-	-
1964-S292	2438557.85	1964 Jun 11 0831	HAD	-	HAD 128	Sphere	-	-	-	WOO	LA2 HAD	-	-	113	-	-
1964-A94	2438576.50	1964 Q3	Aero High	-	-	-	-	-	-	WOO	LA2 AH	-	-	0?	-	-
1964-A95	2438576.50	1964 Q3	Aero High	-	-	-	-	-	-	WOO	LA2 AH	-	-	0?	-	-
1964-S339	2438585.86	1964 Jul 9 0839	HAD	-	HAD 141	Sphere	-	-	-	WOO	LA2 HAD	-	-	111	-	-
1964-S344	2438589.63	1964 Jul 13 0304	HAD	-	HAD 130	Sphere	-	-	-	WOO	LA2 HAD	-	-	122	-	-
1964-S346	2438590.62	1964 Jul 14 0300	HAD	-	HAD 131	Sphere	-	-	-	WOO	LA2 HAD	-	-	122	-	-
1964-A208	2438590.50	1964 Jul 14	HAD	-	HAD 132	Sphere	-	-	-	CARN	-	-	-	1?	-	-
1964-A209	2438591.50	1964 Jul 15	HAD	-	HAD 135	Sphere	-	-	-	CARN	-	-	-	1?	-	-
1964-S349	2438591.60	1964 Jul 15 0219	HAD	-	HAD 133	Sphere	-	-	-	WOO	LA2 HAD	-	-	106	-	-
1964-S359	2438592.59	1964 Jul 16 0213	HAD	-	HAD 134	Sphere	-	-	-	WOO	LA2 HAD	-	-	106	-	-
1964-S360	2438592.73	1964 Jul 16 0530	HAD	-	HAD 136	-	-	-	-	CARN	-	-	-	114	-	-
1964-S367	2438593.72	1964 Jul 17 0515	HAD	-	HAD 137	-	-	-	-	CARN	-	-	-	120	-	-
1964-S439	2438627.88	1964 Aug 20 0902	HAD	-	HAD 135	Sphere	-	-	-	WOO	LA2 HAD	-	-	119	-	-
1964-S472	2438655.89	1964 Sep 17 0917	HAD	-	HAD 144	Sphere	-	-	-	WOO	LA2 HAD	-	-	99	-	-
1964-S522	2438683.90	1964 Oct 15 0936	HAD	-	HAD 146	Sphere	-	-	-	WOO	LA2 HAD	-	-	102	-	-
1964-S826	2438689.50	1964 Oct 21?	HAD	-	HAD 142	-	-	-	-	CARN	-	-	-	100?	-	-
1964-S535	2438690.38	1964 Oct 21 2112	HAD	-	HAD 148	-	-	-	-	CARN	-	-	-	100?	-	-
1964-S536	2438690.96	1964 Oct 22 1103	HAD	-	HAD 140	-	-	-	-	CARN	-	-	-	100?	-	-
1964-A221	2438690.50	1964 Oct 22	HAD	-	HAD 143	-	-	-	-	CARN	-	-	-	1?	-	-
1964-S614	2438710.92	1964 Nov 11 0959	HAD	-	HAD 145	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1964-S618	2438711.92	1964 Nov 12 1000	HAD	-	HAD 157	Sphere	-	-	-	WOO	LA2 HAD	-	-	103	-	-
1964-S673	2438737.93	1964 Dec 8 1026	HAD	-	HAD 159	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1964-S677	2438739.93	1964 Dec 10 1026	HAD	-	HAD 161	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1965-S702	2438795.45	1965 Feb 3 2255	HAD	-	HAD	La absorption	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1965-S71	2438821.91	1965 Mar 2 0957	HAD	-	HAD 152	Sphere	-	-	-	WOO	LA2 HAD	-	-	123	-	-
1965-S209	2438849.90	1965 Mar 30 0930	HAD	-	HAD 153	Sphere	-	-	-	WOO	LA2 HAD	-	-	112	-	-
1965-S279	2438890.81	1965 May 10 0730	HAD	-	HAD 165	Falling sphere	-	-	-	CARN2	-	-	-	115	-	-
1965-S280	2438890.93	1965 May 10 1020	HAD	-	HAD 164	Falling sphere	-	-	-	CARN2	-	-	-	116	-	-
1965-S281	2438891.06	1965 May 10 1320	HAD	-	HAD 162	Falling sphere	-	-	-	CARN2	-	-	-	116	-	-
1965-S282	2438891.18	1965 May 10 1620	HAD	-	HAD 158	Falling sphere	-	-	-	CARN2	-	-	-	109	-	-
1965-S283	2438891.31	1965 May 10 1920	HAD	-	HAD 170	Falling sphere	-	-	-	CARN2	-	-	-	115	-	-
1965-S284	2438891.53	1965 May 11 0045	HAD	-	HAD 154	Falling sphere	-	-	-	CARN2	-	-	-	111	-	-
1965-S285	2438891.63	1965 May 11 0310	HAD	-	HAD 155	Falling sphere	-	-	-	CARN2	-	-	-	113	-	-
1965-A66	2438891.81	1965 May 11 0730	HAD	-	HAD 163	Falling sphere	-	-	-	CARN2	-	-	-	44	-	-
1965-S286	2438891.86	1965 May 11 0839	HAD	-	HAD 160	Sphere	-	-	-	WOO	LA2 HAD	-	-	114	-	-
1965-S307	2438905.50	1965 May 25	HAD	-	HAD	-	-	-	-	WOO	LA2 HAD	-	-	110	-	-
1965-S348	2438919.85	1965 Jun 8 0831	HAD	-	HAD 172	Sphere	-	-	-	WOO	LA2 HAD	-	-	106	-	-
1965-S350	2438920.86	1965 Jun 9 0832	HAD	-	HAD 171	Sphere	-	-	-	WOO	LA2 HAD	-	-	115	-	-
1965-S421	2438948.86	1965 Jul 7 0837	HAD	-	HAD 174	Sphere	-	-	-	WOO	LA2 HAD	-	-	105	-	-
1965-S441	2438975.87	1965 Aug 3 0852	HAD	-	HAD 177	Sphere	-	-	-	WOO	LA2 HAD	-	-	115	-	-
1965-S542	2439038.89	1965 Oct 5 0927	HAD	-	HAD 178	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1965-S604	2439073.92	1965 Nov 9 0958	HAD	-	HAD 179	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1965-S664	2439100.93	1965 Dec 6 1024	HAD	-	HAD 151	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1965-S669	2439104.05	1965 Dec 9 1305	HAD	-	HAD 305	Lunar UV Ozone	-	-	-	WOO	LA2 HAD	-	-	85	-	-
1966-S79	2439151.94	1966 Jan 26 1032	HAD	-	HAD 176	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S127	2439179.92	1966 Feb 23 1006	HAD	-	HAD 186	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S180	2439206.90	1966 Mar 22 0938	HAD	-	HAD 181	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S267	2439262.86	1966 May 17 0842	HAD	-	HAD 188	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S317	2439291.86	1966 Jun 15 0835	HAD	-	HAD 185	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S382	2439325.87	1966 Jul 19 0848	HAD	-	HAD 187	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S464	2439360.88	1966 Aug 23 0904	HAD	-	HAD 189	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S467	2439367.92	1966 Aug 30 1005	HAD	-	HAD 312	Lunar UV Ozone	-	-	-	WOO	LA2 HAD	-	-	91	-	-
1966-S507	2439395.89	1966 Sep 27 0922	HAD	-	HAD 190	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S578	2439430.91	1966 Nov 1 0948	HAD	-	HAD 191	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1966-S594	2439440.46	1966 Nov 10 2305	Long Tom	1	LT16	Solar UV	-	-	-	WOO	LA2 LT	-	-	100?	-	-
1967-S641	2439825.69	1967 Dec 1 0440	HAD	-	-	HAD-WRESAT	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1968-A01	2439855.50	1968	Aero High	-	-	-	-	-	-	WOO	LA2 AH	-	-	0?	-	-
1968-S614	2440189.29	1968 Nov 28 1851	Aero High	-	AH1007	-	-	-	-	WOO	LA2 AH	-	-	134?	-	-
1968-S642	2440203.28	1968 Dec 12 1847	Aero High	-	AH1005/3	-	-	-	-	WOO	LA2 AH	-	-	165	-	-
1969-A129	2440391.88	1969 Jun 19 0908	INTA-255	-	INTA MI-6901	-	Booster test	-	-	ELAR	-	-	-	1	-	-
1969-S718	2440426.50	1969 Jul 24	HAD	-	HAD 309	Nimbus pass	-	-	-	WOO	LA2 HAD	-	-	115?	-	-
1969-S720	2440438.88	1969 Aug 5 0908	Aero High	-	AH1021	Grenades	-	-	-	WOO	LA2 AH	-	-	208?	-	-
1969-S719	2440564.50	1969 Dec 9	HAD	-	HAD 310	-	-	-	-	WOO	LA2 HAD	-	-	115?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-M36	2440575.97	1969 Dec 20 1110	INTA-255	-	INTA I-6901	-	-	-	-	ELAR	-	-	-	73	-	-
1970-A01	2440586.50	1970	Aero High	-	-	-	-	-	-	WOO	LA2 AH	-	-	0?	-	-
1970-S303	2440692.78	1970 Apr 16 0638:00	Cockatoo	-	WRE Cockatoo 101	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1970-S308	2440692.92	1970 Apr 16 1002:00	Cockatoo	-	WRE Cockatoo 102	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1970-S363	2440727.93	1970 May 21 1015:00	Cockatoo	-	WRE Cockatoo 104	Lunar UV Ozone	-	-	-	WOO	LA2 HAD	-	-	96	-	-
1970-S372	2440732.79	1970 May 26 0700:00	Cockatoo	-	WRE Cockatoo 103	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1970-S572	2440880.90	1970 Oct 21 0939	Cockatoo	-	WRE Cockatoo 106	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1970-S724	2440733.08	1970 May 26 1359	Aero High	-	FC9/1	Grenades/Li	-	-	-	WOO	LA2 AH	-	-	175?	-	-
1970-S725	2440733.86	1970 May 27 0837	Aero High	-	FC11/3	Grenades/Li	-	-	-	WOO	LA2 AH	-	-	175?	-	-
1970-S672	2440896.29	1970 Nov 5 1859	Aero High	-	AH1016	Grenades	-	-	-	WOO	LA2 AH	-	-	148?	-	-
1970-S597	2440896.30	1970 Nov 5 1910	Cockatoo	-	WRE Cockatoo 108	Sphere FC11/2	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1970-S602	2440902.96	1970 Nov 12 1100	Cockatoo	-	WRE Cockatoo 105	Lunar UV Ozone	-	-	-	WOO	LA2 HAD	-	-	104	-	-
1970-S657	2440933.14	1970 Dec 12 1515	INTA-255	-	INTA I-7001	-	-	-	-	ELAR	-	-	-	132	-	-
1971-S141	2441012.92	1971 Mar 2 1008	Cockatoo	-	WRE Cockatoo 110	Sphere/MPE Ba?	-	-	-	WOO	LA2 HAD	-	-	218	-	-
1971-S144	2441013.01	1971 Mar 2 1210	Aero High	-	WRE AH1023 (AH4)	-	-	-	-	WOO	LA2 AH	-	-	140?	-	-
1971-S145	2441013.33	1971 Mar 2 1954	Aero High	-	WRE H1024 (AH5/16?)	-	-	-	-	WOO	LA2 AH	-	-	186?	-	-
1971-S292	2441089.86	1971 May 18 0839	Cockatoo	-	WRE C112	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S371	2441151.86	1971 Jul 19 0843	Cockatoo	-	WRE C1016	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S410	2441187.88	1971 Aug 24 0905	Cockatoo	-	WRE C1017	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S456	2441214.89	1971 Sep 20 0918	Cockatoo	-	WRE C1018	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S637	2441215.37	1971 Sep 20 2056	Aero High	-	WRE AH1013	Li release	-	-	-	WOO	LA2 AH	-	-	166	-	-
1971-S529	2441242.90	1971 Oct 18 0938	Cockatoo	-	WRE C1019	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S554	2441263.91	1971 Nov 8 0954	Cockatoo	-	WRE C1022	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1971-S609	2441300.94	1971 Dec 15 1032	Cockatoo	-	WRE C1025	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-A01	2441316.50	1972	Aero High	-	-	-	-	-	-	WOO	LA2 AH	-	-	0?	-	-
1972-S62	2441350.94	1972 Feb 3 1027	Cockatoo	-	WRE C1023	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S90	2441370.92	1972 Feb 23 1006	Cockatoo	-	WRE C1024	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S134	2441398.90	1972 Mar 22 0933	Cockatoo	-	WRE C1026	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S174	2441426.92	1972 Apr 19 1001	Cockatoo	-	WRE C1027	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S203	2441455.86	1972 May 18 0837	Cockatoo	-	WRE C1030	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S211	2441466.94	1972 May 29 1034	Cockatoo	-	WRE C1014	Lunar UV	-	-	-	WOO	LA2 HAD	-	-	120	-	-
1972-S241	2441483.85	1972 Jun 15 0831	Cockatoo	-	WRE C1033	Sphere	-	-	-	WOO	LA2 HAD	-	-	100?	-	-
1972-S464	2441518.50	1972 Jul 20	Cockatoo	-	WRE C1020	O2 density	-	-	-	WOO	LA2 HAD	-	-	130?	-	-
1972-S759	2441608.33	1972 Oct 17 1951	Cockatoo	-	WRE C1047	Li release	-	-	-	WOO	LA2 HAD	-	-	115	-	-
1972-S463	2441644.45	1972 Nov 22 2255	Cockatoo	-	WRE C1029	O2 density	-	-	-	WOO	LA2 HAD	-	-	131	-	-
1973-S32	2441707.55	1973 Jan 25 0115	Cockatoo	-	WRE C?	-	-	-	-	WOO	LA2 HAD	-	-	122	-	-
1973-S543	2441791.36	1973 Apr 18 2035	Cockatoo	-	WRE C2003	Li release	-	-	-	WOO	LA2 HAD	-	-	130	-	-
1973-S481	2441854.47	1973 Jun 20 2320	Cockatoo	-	WRE C2004	Li release	-	-	-	WOO	LA2 HAD	-	-	130	-	-
1973-S276	2441908.87	1973 Aug 14 0858	Cockatoo Mk 4	-	WRE C4001	-	-	-	-	WOO	LA2 HAD	-	-	121	-	-
1973-S544	2441944.71	1973 Sep 19 0500	Cockatoo	-	WRE C2001	Li release	-	-	-	WOO	LA2 HAD	-	-	111	-	-
1973-S363	2441977.90	1973 Oct 22 0938	Cockatoo Mk 4	-	WRE C4002	-	-	-	-	WOO	LA2 HAD	-	-	138	-	-
1973-S545	2442005.93	1973 Nov 19 1019	Aero High	-	WRE AH1014	TMA/Grenades	-	-	-	WOO	LA2 HAD	-	-	151	-	-
1974-S508	2442125.62	1974 Mar 19 0258	Cockatoo	-	WRE C3004	Li release	-	-	-	WOO	LA2 HAD	-	-	113?	-	-
1974-S440	2442226.50	1974 Jun 28	Cockatoo Mk 4	-	WRE C4006	O2 density	-	-	-	WOO	LA2 HAD	-	-	130?	-	-
1974-S438	2442322.49	1974 Oct 1 2350	Cockatoo Mk 4	-	WRE C4009	O2 density	-	-	-	WOO	LA2 HAD	-	-	137	-	-
1974-S439	2442322.83	1974 Oct 2 0755	Cockatoo Mk 4	-	WRE C4007	O2 density	-	-	-	WOO	LA2 HAD	-	-	132	-	-
1974-S342	2442329.70	1974 Oct 9 0449	INTA-300	-	INTA IT-P1-7401	F-74001	-	-	-	ELAR	MORABA	-	-	254	-	-
1975-S402	2442527.35	1975 Apr 24 2030	Aero High	-	WRE AH1015	Grenade/TMA	-	-	-	WOO	LA2 AH	-	-	165	-	-
1975-S359	2442531.49	1975 Apr 28 2345	Cockatoo Mk 4	-	WRE C4018	O2 density	-	-	-	WOO	LA2 HAD	-	-	124	-	-
1975-S403	2442642.69	1975 Aug 18 0431	Cockatoo Mk 4	-	WRE C4008 (C3008)?	Impedance probe	-	-	-	WOO	LA2 HAD	-	-	145	-	-
1975-S306	2442706.99	1975 Oct 21 1142	INTA-300	-	INTA IT-P2-7501	F-75001	-	-	-	ELAR	-	-	-	240	-	-
1975-S364	2442723.30	1975 Nov 6 1908	Cockatoo	-	WRE C3009	Li release	-	-	-	WOO	LA2 HAD	-	-	150	-	-
1975-S347	2442751.29	1975 Dec 4 1852	Corella	-	WRE Co1002	-	-	-	-	WOO	LA2	-	-	220	-	-
1976-S417	2442832.40	1976 Feb 23 2130	Cockatoo	-	WRE C3010	-	-	-	-	WOO	LA2	-	-	145?	-	-
1976-S168	2442897.36	1976 Apr 28 2035	Corella	-	WRE Co1003	-	-	-	-	WOO	LA2	-	-	200	-	-
1976-S361	2442925.62	1976 May 27 0300	Cockatoo	-	WRE C4020	-	-	-	-	WOO	-	-	-	103	-	-
1976-S334	2443104.39	1976 Nov 21 2114:47	Fulmar	-	F2	-	-	-	-	AND	-	-	-	137	-	-
1976-S346	2443123.61	1976 Dec 11 0240:24	Fulmar	-	F5	-	-	-	-	AND	-	-	-	214	-	-
1977-S260	2443433.43	1977 Oct 16 2223:26	Fulmar	-	F3	Wind/T	-	-	-	AND	-	-	-	247	-	-
1977-S285	2443465.40	1977 Nov 17 2134:06	Fulmar	-	F1	Electrons/Ions	-	-	-	AND	-	-	-	261	-	-
1977-S294	2443482.59	1977 Dec 5 0208:10	Fulmar	-	F4	HLC 2B	-	-	-	AND	-	-	-	255	-	-
1978-A29	2443687.67	1978 Jun 28 0400	INTA-300	-	INTA IT.SIB-7801	Martelli	-	-	-	ELAR	-	-	-	25	-	-
1979-A14	2443951.52	1979 Mar 19 0034:48	Fulmar	-	F6	-	-	-	-	AND	-	-	-	15	-	-
1981-S71	2444653.97	1981 Feb 18 1112	INTA-300	-	INTA IT-P4-8101	-	-	-	-	ELAR	-	-	-	285	-	-
1993-S65	2449281.57	1993 Oct 21 0146	INTA-300B	-	IAA	FEIROX/FEIROH	-	-	-	ELAR	-	-	-	154	-	-
1994-S29	2449458.56	1994 Apr 16 0122:51	INTA-300B	-	IAA	O2-INTA300	-	-	-	ELAR	-	-	-	156	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A254	2436758.50	1959 Jul 9	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1959-A255	2436801.50	1959 Aug 21	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1959-A256	2436890.50	1959 Nov 18	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1960-A337	2437087.50	1960 Jun 2	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1960-A338	2437156.50	1960 Aug 10	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1960-A339	2437199.50	1960 Sep 22	Gosling-Lobster	-	-	0.000	WRE	AS	-	WRE/	Test	AASH32-377	-	-
1961-M10	2437413.62	1961 Apr 24 0253	HAD	-	HAD 101 (HAT 201?)	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1961-S426	2437647.94	1961 Dec 14 1029	HAD	-	HAD 103	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1962-S81	2437752.89	1962 Mar 29 0928	HAD	-	HAD 105	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1962-S200	2437841.86	1962 Jun 26 0838	HAD	-	HAD 108	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1962-S313	2437903.88	1962 Aug 27 0908	HAD	-	HAD 107	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1962-S418	2437961.91	1962 Oct 24 0946	HAD	-	HAD 111	0.000	WRE	SS	-	WRE/	Aeron	WDC	-	-
1962-S494	2437995.93	1962 Nov 27 1017	HAD	-	HAD 112	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1962-S529	2438002.94	1962 Dec 4 1028	HAD	-	HAD 113	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1963-S27	2438059.94	1963 Jan 30 1032	HAD	-	HAD 115	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1963-S90	2438100.91	1963 Mar 12 0950	HAD	-	HAD 116	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1963-S118	2438109.90	1963 Mar 21 0930	HAD	-	HAD 118	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1963-M51	2438369.49	1963 Dec 5 2342	HAD	-	HAD 301	0.000	WRE	SS	-	ADEL/Carver	Solar EUV/Aeron	JGR69,3755	WDCRF	-
1963-S598	2438376.30	1963 Dec 12 1906	HAD	-	HAD 122	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-M05	2438437.91	1964 Feb 12 0946	HAD	-	HAD 124	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S132	2438458.91	1964 Mar 4 0953	HAD	-	HAD 127	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S207	2438499.86	1964 Apr 14 0832	HAD	-	HAD 129	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S245	2438529.86	1964 May 14 0837	HAD	-	HAD 126	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S292	2438557.85	1964 Jun 11 0831	HAD	-	HAD 128	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-A94	2438576.50	1964 Q3	Aero High	-	-	0.000	WRE	SF	U	WRE/	Test?	Morton	-	-
1964-A95	2438576.50	1964 Q3	Aero High	-	-	0.000	WRE	SF	U	WRE/	Test?	Morton	-	-
1964-S339	2438585.86	1964 Jul 9 0839	HAD	-	HAD 141	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S344	2438589.63	1964 Jul 13 0304	HAD	-	HAD 130	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S346	2438590.62	1964 Jul 14 0300	HAD	-	HAD 131	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-A208	2438590.50	1964 Jul 14	HAD	-	HAD 132	0.000	WRE	SF	U	WRE/	Aeron	UMSphere	-	-
1964-A209	2438591.50	1964 Jul 15	HAD	-	HAD 135	0.000	WRE	SF	U	WRE/	Aeron	UMSphere	-	-
1964-S349	2438591.60	1964 Jul 15 0219	HAD	-	HAD 133	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S359	2438592.59	1964 Jul 16 0213	HAD	-	HAD 134	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S360	2438592.73	1964 Jul 16 0530	HAD	-	HAD 136	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S367	2438593.72	1964 Jul 17 0515	HAD	-	HAD 137	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S439	2438627.88	1964 Aug 20 0902	HAD	-	HAD 135	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S472	2438655.89	1964 Sep 17 0917	HAD	-	HAD 144	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S522	2438683.90	1964 Oct 15 0936	HAD	-	HAD 146	0.000	WRE	SS	-	WRE/	Aeron	UMSphere	-	-
1964-S826	2438689.50	1964 Oct 21?	HAD	-	HAD 142	0.000	WRE	SS	-	WRE/	Aeron	UMSphere	-	-
1964-S535	2438690.38	1964 Oct 21 2112	HAD	-	HAD 148	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S536	2438690.96	1964 Oct 22 1103	HAD	-	HAD 140	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-A221	2438690.50	1964 Oct 22	HAD	-	HAD 143	0.000	WRE	SF	U	WRE/	Aeron	UMSphere	-	-
1964-S614	2438710.92	1964 Nov 11 0959	HAD	-	HAD 145	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S618	2438711.92	1964 Nov 12 1000	HAD	-	HAD 157	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S673	2438737.93	1964 Dec 8 1026	HAD	-	HAD 159	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1964-S677	2438739.93	1964 Dec 10 1026	HAD	-	HAD 161	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S702	2438795.45	1965 Feb 3 2255	HAD	-	HAD	0.000	WRE	SS	-	ADEL/Carver	Aeron	WDCRF	SR6,373	-
1965-S71	2438821.91	1965 Mar 2 0957	HAD	-	HAD 152	0.000	WRE	SS	-	WRE/	Aeron	UMSphere	-	-
1965-S209	2438849.90	1965 Mar 30 0930	HAD	-	HAD 153	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S279	2438890.81	1965 May 10 0730	HAD	-	HAD 165	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	SRVII,973	-
1965-S280	2438890.93	1965 May 10 1020	HAD	-	HAD 164	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S281	2438891.06	1965 May 10 1320	HAD	-	HAD 162	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S282	2438891.18	1965 May 10 1620	HAD	-	HAD 158	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S283	2438891.31	1965 May 10 1920	HAD	-	HAD 170	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S284	2438891.53	1965 May 11 0045	HAD	-	HAD 154	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S285	2438891.63	1965 May 11 0310	HAD	-	HAD 155	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-A66	2438891.81	1965 May 11 0730	HAD	-	HAD 163	0.000	WRE	SS	-	WRE/Rofe	Aeron	WDCRF	-	-
1965-S286	2438891.86	1965 May 11 0839	HAD	-	HAD 160	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S307	2438905.50	1965 May 25	HAD	-	HAD	0.000	WRE	SS	-	WRE/Cook,Drummond	Aeron	WDCRF	-	-
1965-S348	2438919.85	1965 Jun 8 0831	HAD	-	HAD 172	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S350	2438920.86	1965 Jun 9 0832	HAD	-	HAD 171	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S421	2438948.86	1965 Jul 7 0837	HAD	-	HAD 174	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S441	2438975.87	1965 Aug 3 0852	HAD	-	HAD 177	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S542	2439038.89	1965 Oct 5 0927	HAD	-	HAD 178	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S604	2439073.92	1965 Nov 9 0958	HAD	-	HAD 179	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S664	2439100.93	1965 Dec 6 1024	HAD	-	HAD 151	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1965-S669	2439104.05	1965 Dec 9 1305	HAD	-	HAD 305	0.000	WRE	SS	-	ADEL/Carver	UV Astron/Aeron	SR-VII-1020	PlanSpaSci20,217	-
1966-S79	2439151.94	1966 Jan 26 1032	HAD	-	HAD 176	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S127	2439179.92	1966 Feb 23 1006	HAD	-	HAD 186	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S180	2439206.90	1966 Mar 22 0938	HAD	-	HAD 181	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S267	2439262.86	1966 May 17 0842	HAD	-	HAD 188	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S317	2439291.86	1966 Jun 15 0835	HAD	-	HAD 185	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S382	2439325.87	1966 Jul 19 0848	HAD	-	HAD 187	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S464	2439360.88	1966 Aug 23 0904	HAD	-	HAD 189	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	WRE-TN799	-
1966-S467	2439367.92	1966 Aug 30 1005	HAD	-	HAD 312	0.000	WRE	SS	-	ADEL/Carver	Aeron	WDCRF	PlanSpaSci20,217	-
1966-S507	2439395.89	1966 Sep 27 0922	HAD	-	HAD 190	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	or Sep23?
1966-S578	2439430.91	1966 Nov 1 0948	HAD	-	HAD 191	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1966-S594	2439440.46	1966 Nov 10 2305	Long Tom	1	LT16	0.000	WRE	SS	-	WRE/	Solar UV	WRE-TN-SAD184	-	-
1967-S641	2439825.69	1967 Dec 1 0440	HAD	-	-	0.000	WRE	SS	-	WRE/	Aeron	Ulrich/Wire	WRE-TN-SAD184	-
1968-A01	2439855.50	1968	Aero High	-	-	0.000	WRE	SF	U	WRE/	Aeron?	Morton	-	-
1968-S614	2440189.29	1968 Nov 28 1851	Aero High	-	AH1007	0.000	WRE	SS	-	WRE/Lloyd,Low	Aeron	WDCRF	WRE-TN-HSA175	-
1968-S642	2440203.28	1968 Dec 12 1847	Aero High	-	AH1005/3	0.000	WRE	SS	-	WRE/Lloyd,Low	Aeron	WDCRF	WRE-TN-HSA175	-
1969-A129	2440391.88	1969 Jun 19 0908	INTA-255	-	INTA MI-6901	0.000	INTA	SS	-	INTA/	Test	ElAren	JBIS24,87	-
1969-S718	2440426.50	1969 Jul 24	HAD	-	HAD 309	0.000	WRE	SS	-	WRE/	Aeron	JGR82,2613	LockeyPhD1972	-
1969-S720	2440438.88	1969 Aug 5 0908	Aero High	-	AH1021	0.000	WRE	SS	-	WRE/Lloyd,Low	Aeron	WRE-TN1403	-	-
1969-S719	2440564.50	1969 Dec 9	HAD	-	HAD 310	0.000	WRE	SS	-	WRE/	Aeron	JGR82,2613	LockeyPhD1972	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-M36	2440575.97	1969 Dec 20 1110	INTA-255	-	INTA I-6901	0.000	INTA	SS	-	INTA/	Test	ElAren	JBIS24,87	-
1970-A01	2440586.50	1970	Aero High	-	-	0.000	WRE	SF	U	WRE/	Aeron?	Morton	-	-
1970-S303	2440692.78	1970 Apr 16 0638:00	Cockatoo	-	WRE Cockatoo 101	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	JBIS25,61	-
1970-S308	2440692.92	1970 Apr 16 1002:00	Cockatoo	-	WRE Cockatoo 102	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	-	-
1970-S363	2440727.93	1970 May 21 1015:00	Cockatoo	-	WRE Cockatoo 104	0.000	WRE	SS	-	ADEL/Carver	Aeron	WDCRF	PlanSpaSci20,217	-
1970-S372	2440732.79	1970 May 26 0700:00	Cockatoo	-	WRE Cockatoo 103	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	-	-
1970-S572	2440880.90	1970 Oct 21 0939	Cockatoo	-	WRE Cockatoo 106	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1970-S724	2440733.08	1970 May 26 1359	Aero High	-	FC9/1	0.000	WRE	SS	-	WRE/	Aeron	FDC	-	-
1970-S725	2440733.86	1970 May 27 0837	Aero High	-	FC11/3	0.000	WRE	SS	-	WRE/	Aeron	FDC	-	-
1970-S672	2440896.29	1970 Nov 5 1859	Aero High	-	AH1016	0.000	WRE	SS	-	WRE/Lloyd,Low	Aeron	WRE-TN1403	-	-
1970-S597	2440896.30	1970 Nov 5 1910	Cockatoo	-	WRE Cockatoo 108	0.000	WRE	SS	-	WRE/Lloyd	Aeron	PlanSpaSci21,653	WDCRF	-
1970-S602	2440902.96	1970 Nov 12 1100	Cockatoo	-	WRE Cockatoo 105	0.000	WRE	SS	-	ADEL/Carver	Aeron	WDCRF	PlanSpaSci20,217	-
1970-S657	2440933.14	1970 Dec 12 1515	INTA-255	-	INTA I-7001	0.000	INTA	SS	-	INTA/	Test	CohetesINTA	ElAren	-
1971-S141	2441012.92	1971 Mar 2 1008	Cockatoo	-	WRE Cockatoo 110	0.000	WRE	SS	-	MPE/Haerendel	Aeron	WDCRF	-	-
1971-S144	2441013.01	1971 Mar 2 1210	Aero High	-	WRE AH1023 (AH4)	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN1403	users.senet.com.au	-
1971-S145	2441013.33	1971 Mar 2 1954	Aero High	-	WRE H1024 (AH5/16?)	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN1403	users.senet.com.au	-
1971-S292	2441089.86	1971 May 18 0839	Cockatoo	-	WRE C112	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S371	2441151.86	1971 Jul 19 0843	Cockatoo	-	WRE C1016	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S410	2441187.88	1971 Aug 24 0905	Cockatoo	-	WRE C1017	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S456	2441214.89	1971 Sep 20 0918	Cockatoo	-	WRE C1018	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S637	2441215.37	1971 Sep 20 2056	Aero High	-	WRE AH1013	0.000	WRE	SS	-	WRE/	Aeron	AUS-PR71/32	WRE-TN1403	-
1971-S529	2441242.90	1971 Oct 18 0938	Cockatoo	-	WRE C1019	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S554	2441263.91	1971 Nov 8 0954	Cockatoo	-	WRE C1022	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1971-S609	2441300.94	1971 Dec 15 1032	Cockatoo	-	WRE C1025	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-A01	2441316.50	1972	Aero High	-	-	0.000	WRE	SF	U	WRE/	Aeron	Morton	-	-
1972-S62	2441350.94	1972 Feb 3 1027	Cockatoo	-	WRE C1023	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S90	2441370.92	1972 Feb 23 1006	Cockatoo	-	WRE C1024	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S134	2441398.90	1972 Mar 22 0933	Cockatoo	-	WRE C1026	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S174	2441426.92	1972 Apr 19 1001	Cockatoo	-	WRE C1027	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S203	2441455.86	1972 May 18 0837	Cockatoo	-	WRE C1030	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S211	2441466.94	1972 May 29 1034	Cockatoo	-	WRE C1014	0.000	WRE	SS	-	ADEL/Carver	Fields/UV Astron	WDCRF	Moon9,295	-
1972-S241	2441483.85	1972 Jun 15 0831	Cockatoo	-	WRE C1033	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1972-S464	2441518.50	1972 Jul 20	Cockatoo	-	WRE C1020	0.000	WRE	SS	-	ADEL/Ilyas	Aeron	JGR85,A10,5113	-	-
1972-S759	2441608.33	1972 Oct 17 1951	Cockatoo	-	WRE C1047	0.000	WRE	SS	-	WRE/Lloyd	Aeron	WRE-TR-1921	-	-
1972-S463	2441644.45	1972 Nov 22 2255	Cockatoo	-	WRE C1029	0.000	WRE	SS	-	ADEL/Carver	Aeron	JGR83,A9,4377	-	-
1973-S32	2441707.55	1973 Jan 25 0115	Cockatoo	-	WRE C?	0.000	WRE	SS	-	WRE/Lloyd	Aeron	WDCRF	-	-
1973-S543	2441791.36	1973 Apr 18 2035	Cockatoo	-	WRE C2003	0.000	WRE	SS	-	WRE/	Aeron	parlinfo.aph.gov.au	WRE-TR-1921	-
1973-S481	2441854.47	1973 Jun 20 2320	Cockatoo	-	WRE C2004	0.000	WRE	SS	-	WRE/Hind	Aeron	AJP27,401	ADA051077	-
1973-S276	2441908.87	1973 Aug 14 0858	Cockatoo Mk 4	-	WRE C4001	0.000	WRE	SS	-	WRE/Pearson	Aeron	WDCRF	-	-
1973-S544	2441944.71	1973 Sep 19 0500	Cockatoo	-	WRE C2001	0.000	WRE	SS	-	WRE/Lloyd	Aeron	ADA051077	-	-
1973-S363	2441977.90	1973 Oct 22 0938	Cockatoo Mk 4	-	WRE C4002	0.000	WRE	SS	-	WRE/Pearson	Aeron	WDCRF	-	-
1973-S545	2442005.93	1973 Nov 19 1019	Aero High	-	WRE AH1014	0.000	WRE	SS	-	WRE/Lloyd	Aeron	WRE-TR-1921	-	-
1974-S508	2442125.62	1974 Mar 19 0258	Cockatoo	-	WRE C3004	0.000	WRE	SS	-	WRE/Lloyd	Aeron	ADA051077	-	-
1974-S440	2442226.50	1974 Jun 28	Cockatoo Mk 4	-	WRE C4006	0.000	WRE	SS	-	ADEL/Ilyas	Aeron	JGR85,A10,5113	-	-
1974-S438	2442322.49	1974 Oct 1 2350	Cockatoo Mk 4	-	WRE C4009	0.000	WRE	SS	-	ADEL/Carver	Aeron	JGR83,A9,4377	-	-
1974-S439	2442322.83	1974 Oct 2 0755	Cockatoo Mk 4	-	WRE C4007	0.000	WRE	SS	-	ADEL/Carver	Aeron	JGR83,A9,4377	-	-
1974-S342	2442329.70	1974 Oct 9 0449	INTA-300	-	INTA IT-P1-7401	0.000	INTA	SS	-	INTA/Mateo,Rodriguez	Test	ESA-SP115	Serra	-
1975-S402	2442527.35	1975 Apr 24 2030	Aero High	-	WRE AH1015	0.000	WRE	SS	-	WRE/	Aeron	WRE-TR-1921	-	-
1975-S359	2442531.49	1975 Apr 28 2345	Cockatoo Mk 4	-	WRE C4018	0.000	WRE	SS	-	ADEL/Carver	Aeron	JGR83,A9,4377	-	-
1975-S403	2442642.69	1975 Aug 18 0431	Cockatoo Mk 4	-	WRE C4008 (C3008)?	0.000	WRE	SS	-	WRE/Lloyd	Aeron	WRE-TR-1828	-	-
1975-S306	2442706.99	1975 Oct 21 1142	INTA-300	-	INTA IT-P2-7501	0.000	INTA	SS	-	INTA/Mateo,Rodriguez	Aeron/Test	ESA-SP115	Serra	-
1975-S364	2442723.30	1975 Nov 6 1908	Cockatoo	-	WRE C3009	0.000	WRE	SS	-	WRE/	Aeron	WRE-TR-1921	FDC/Ulrich	-
1975-S347	2442751.29	1975 Dec 4 1852	Corella	-	WRE Co1002	0.000	WRE	SS	-	WRE/	Aeron	WRE-TR-1921	Morton	-
1976-S417	2442832.40	1976 Feb 23 2130	Cockatoo	-	WRE C3010	0.000	WRE	SS	-	WRE/	Aeron	ADA051077	FDC/Ulrich	-
1976-S168	2442897.36	1976 Apr 28 2035	Corella	-	WRE Co1003	0.000	WRE	SS	-	WRE/	Aeron	WRE-TR-1921	Morton	-
1976-S361	2442925.62	1976 May 27 0300	Cockatoo	-	WRE C4020	0.000	WRE	SS	-	WRE/Lloyd	Ionos	WRE-TR1816	-	-
1976-S334	2443104.39	1976 Nov 21 2114:47	Fulmar	-	F2	0.000	SRC	SS	-	RSRS/Bryant	Auroral	WDCRF	ESRO76/AND	-
1976-S346	2443123.61	1976 Dec 11 0240:24	Fulmar	-	F5	0.000	SRC	SS	-	UCL/Rees	Auroral/Aeron/Ionos	WDCRF	ESRO76/AND	-
1977-S260	2443433.43	1977 Oct 16 2223:26	Fulmar	-	F3	0.000	SRC	SS	-	RSRS/UCL/Bryant,Rees	Atmospheric	ESA-SP152-245	AND	-
1977-S285	2443465.40	1977 Nov 17 2134:06	Fulmar	-	F1	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	WDCRF	AND	-
1977-S294	2443482.59	1977 Dec 5 0208:10	Fulmar	-	F4	0.000	SRC	SS	-	SHEF/Woolliscroft	Auroral	WDCRF	Massey/AND	-
1978-A29	2443687.67	1978 Jun 28 0400	INTA-300	-	INTA IT.SIB-7801	0.000	INTA	SF	U	INTA/	Aeron	ElAren	IAC-06-E4.4.05	-
1979-A14	2443951.52	1979 Mar 19 0034:48	Fulmar	-	F6	0.000	SRC	SF	U	SHEF/Woolliscroft	Aeron	WDCRF	AND	-
1981-S71	2444653.97	1981 Feb 18 1112	INTA-300	-	INTA IT-P4-8101	0.000	INTA	SS	-	INTA/	Tech	ElAren	CohetesINTA	-
1993-S65	2449281.57	1993 Oct 21 0146	INTA-300B	-	IAA	0.000	INTA	SS	-	INTA/IAA/	Aeron	ESA-SP370	Serra	-
1994-S29	2449458.56	1994 Apr 16 0122:51	INTA-300B	-	IAA	0.000	INTA	SS	-	INTA/IAA/	Aeron	ESA-SP370	Serra	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-A03	2458124.50	2018 Jan 6	Badr-1	?	New SRBM 1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A08	2458134.50	2018 Jan 16	Badr-1	?	New SRBM 2	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan AB
2018-A26	2458136.50	2018 Jan 18	Badr-1	?	New SRBM 3	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A27	2458138.50	2018 Jan 20	Badr-1	?	New SRBM 4	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A31	2458199.50	2018 Mar 22	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran Aram
2018-A32	2458201.50	2018 Mar 24	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A41	2458208.50	2018 Mar 31	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A38	2458209.50	2018 Apr 1	Grad	-	Grad	-	-	-	-	YEMEN	-	-	-	10?	-	Lahj
2018-A39	2458210.50	2018 Apr 2	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A58	2458216.50	2018 Apr 8	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A46	2458220.50	2018 Apr 12	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A44	2458220.50	2018 Apr 12	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A45	2458221.50	2018 Apr 13	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A84	2458224.50	2018 Apr 16	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A80	2458226.50	2018 Apr 18	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A83	2458228.50	2018 Apr 20	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A82	2458231.50	2018 Apr 23	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A81	2458231.50	2018 Apr 23	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A71	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A72	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A73	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A74	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A75	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A76	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A77	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A78	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A68	2458244.50	2018 May 6	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A69	2458244.50	2018 May 6	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A63	2458247.50	2018 May 9	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A60	2458247.50	2018 May 9	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A62	2458249.50	2018 May 11	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A61	2458252.50	2018 May 14	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A59	2458256.50	2018 May 18	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A57	2458257.50	2018 May 19	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A53	2458259.50	2018 May 21	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A54	2458262.50	2018 May 24	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A55	2458263.50	2018 May 25	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A96	2458277.50	2018 Jun 8	Badr-1	?	-	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A97	2458277.50	2018 Jun 8	Badr-1	?	-	-	-	-	-	YEMEN	-	-	-	10?	-	Khamis
2018-A100	2458279.50	2018 Jun 10	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A101	2458282.50	2018 Jun 13	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A103	2458283.50	2018 Jun 14	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A106	2458286.50	2018 Jun 17	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A107	2458288.50	2018 Jun 19	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A110	2458298.50	2018 Jun 29	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A111	2458299.50	2018 Jun 30	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A112	2458302.50	2018 Jul 3	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A113	2458302.50	2018 Jul 3	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A114	2458305.50	2018 Jul 6	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A115	2458306.50	2018 Jul 7	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A116	2458309.50	2018 Jul 10	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A117	2458310.50	2018 Jul 11	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A119	2458313.50	2018 Jul 14	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A120	2458315.50	2018 Jul 16	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A121	2458318.50	2018 Jul 19	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A122	2458328.50	2018 Jul 29	Badr-1	?	-	-	-	-	-	YEMEN	-	-	-	10?	-	Bayda
2018-A124	2458331.50	2018 Aug 1	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A125	2458338.50	2018 Aug 8	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	Marib
2018-A127	2458338.50	2018 Aug 8	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A128	2458339.50	2018 Aug 9	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A129	2458342.50	2018 Aug 12	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A130	2458343.50	2018 Aug 13	Badr-1	?	SRBM	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A131	2458346.50	2018 Aug 16	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A132	2458347.50	2018 Aug 17	Badr-1	?	-	-	-	-	-	YEMEN	-	-	-	10?	-	W Coast
2018-A138	2458349.50	2018 Aug 19	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A139	2458350.50	2018 Aug 20	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A140	2458351.50	2018 Aug 21	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A146	2458359.50	2018 Aug 29	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A150	2458360.50	2018 Aug 30	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A151	2458365.50	2018 Sep 4	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A152	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A153	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A154	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A155	2458367.50	2018 Sep 6	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A157	2458368.50	2018 Sep 7	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A158	2458368.50	2018 Sep 7	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A159	2458369.50	2018 Sep 8	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A160	2458371.50	2018 Sep 10	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A161	2458375.50	2018 Sep 14	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan-Aramco
2018-A162	2458376.50	2018 Sep 15	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A163	2458377.50	2018 Sep 16	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A166	2458379.50	2018 Sep 18	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A167	2458381.50	2018 Sep 20	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A168	2458384.50	2018 Sep 23	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2018-A183	2458407.50	2018 Oct 16	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Marib
2018-A184	2458407.50	2018 Oct 16	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Marib

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-A185	2458409.50	2018 Oct 18	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A195	2458418.50	2018 Oct 27	Badr-1	?	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Hodeidah
2018-A198	2458424.50	2018 Nov 2	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A199	2458425.50	2018 Nov 3	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Boq'ea
2018-A200	2458426.50	2018 Nov 4	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Hodeidah
2018-A201	2458429.50	2018 Nov 7	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	YE W Coast
2018-A202	2458430.50	2018 Nov 8	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Jawf
2018-A203	2458430.50	2018 Nov 8	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jawf
2018-A208	2458441.50	2018 Nov 19	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Hajjah
2018-A214	2458447.50	2018 Nov 25	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2018-A215	2458447.50	2018 Nov 25	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Nehm
2018-A219	2458451.50	2018 Nov 29	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A220	2458451.50	2018 Nov 29	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2018-A221	2458452.50	2018 Nov 30	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	YE W Coast
2019-A04	2458489.50	2019 Jan 6	Badr-1	-	Badr-1	-	-	-	-	YEMEN	-	-	-	10?	-	Taiz
2019-A07	2458497.50	2019 Jan 14	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2019-A10	2458504.50	2019 Jan 21	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2019-A11	2458504.50	2019 Jan 21	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2019-A12	2458509.50	2019 Jan 26	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2019-A28	2458538.50	2019 Feb 24	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2019-A36	2458546.50	2019 Mar 4	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Asir
2019-A39	2458548.50	2019 Mar 6	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Midi
2019-A43	2458552.50	2019 Mar 10	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Midi
2019-A44	2458555.50	2019 Mar 13	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Hairan
2019-A45	2458562.50	2019 Mar 20	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2019-A46	2458562.50	2019 Mar 20	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2019-A51	2458566.50	2019 Mar 24	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Jawf
2019-A52	2458570.50	2019 Mar 28	Badr-1	-	Badr-1P	-	-	-	-	YEMEN	-	-	-	10?	-	Hajjah
2019-A63	2458592.50	2019 Apr 19	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Dhalea
2019-A64	2458594.50	2019 Apr 21	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan
2019-A98	2458654.50	2019 Jun 20	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Najran
2021-A20	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Jeddah?
2021-A21	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan?
2021-A22	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Najran?
2021-A23	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Jizan?
2021-A24	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	-	-	-	-	YEMEN	-	-	-	10?	-	Jeddah?

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-A03	2458124.50	2018 Jan 6	Badr-1	?	New SRBM 1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A08	2458134.50	2018 Jan 16	Badr-1	?	New SRBM 2	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A26	2458136.50	2018 Jan 18	Badr-1	?	New SRBM 3	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A27	2458138.50	2018 Jan 20	Badr-1	?	New SRBM 4	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A31	2458199.50	2018 Mar 22	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A32	2458201.50	2018 Mar 24	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A41	2458208.50	2018 Mar 31	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A38	2458209.50	2018 Apr 1	Grad	-	Grad	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A39	2458210.50	2018 Apr 2	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A58	2458216.50	2018 Apr 8	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A46	2458220.50	2018 Apr 12	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A44	2458220.50	2018 Apr 12	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A45	2458221.50	2018 Apr 13	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A84	2458224.50	2018 Apr 16	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A80	2458226.50	2018 Apr 18	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A83	2458228.50	2018 Apr 20	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A82	2458231.50	2018 Apr 23	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A81	2458231.50	2018 Apr 23	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A71	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A72	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A73	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A74	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A75	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A76	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A77	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A78	2458236.50	2018 Apr 28	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A68	2458244.50	2018 May 6	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A69	2458244.50	2018 May 6	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A63	2458247.50	2018 May 9	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A60	2458247.50	2018 May 9	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A62	2458249.50	2018 May 11	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A61	2458252.50	2018 May 14	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A59	2458256.50	2018 May 18	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A57	2458257.50	2018 May 19	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A53	2458259.50	2018 May 21	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A54	2458262.50	2018 May 24	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A55	2458263.50	2018 May 25	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A96	2458277.50	2018 Jun 8	Badr-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A97	2458277.50	2018 Jun 8	Badr-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A100	2458279.50	2018 Jun 10	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A101	2458282.50	2018 Jun 13	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A103	2458283.50	2018 Jun 14	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A106	2458286.50	2018 Jun 17	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A107	2458288.50	2018 Jun 19	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A110	2458298.50	2018 Jun 29	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A111	2458299.50	2018 Jun 30	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A112	2458302.50	2018 Jul 3	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A113	2458302.50	2018 Jul 3	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A114	2458305.50	2018 Jul 6	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A115	2458306.50	2018 Jul 7	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A116	2458309.50	2018 Jul 10	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A117	2458310.50	2018 Jul 11	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A119	2458313.50	2018 Jul 14	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A120	2458315.50	2018 Jul 16	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A121	2458318.50	2018 Jul 19	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A122	2458328.50	2018 Jul 29	Badr-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A124	2458331.50	2018 Aug 1	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A125	2458338.50	2018 Aug 8	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A127	2458338.50	2018 Aug 8	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A128	2458339.50	2018 Aug 9	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A129	2458342.50	2018 Aug 12	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A130	2458343.50	2018 Aug 13	Badr-1	?	SRBM	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A131	2458346.50	2018 Aug 16	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A132	2458347.50	2018 Aug 17	Badr-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A138	2458349.50	2018 Aug 19	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A139	2458350.50	2018 Aug 20	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A140	2458351.50	2018 Aug 21	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A146	2458359.50	2018 Aug 29	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A150	2458360.50	2018 Aug 30	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A151	2458365.50	2018 Sep 4	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A152	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A153	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A154	2458365.50	2018 Sep 4	Badr-1	?	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A155	2458367.50	2018 Sep 6	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A157	2458368.50	2018 Sep 7	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A158	2458368.50	2018 Sep 7	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A159	2458369.50	2018 Sep 8	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A160	2458371.50	2018 Sep 10	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A161	2458375.50	2018 Sep 14	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A162	2458376.50	2018 Sep 15	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A163	2458377.50	2018 Sep 16	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A166	2458379.50	2018 Sep 18	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A167	2458381.50	2018 Sep 20	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A168	2458384.50	2018 Sep 23	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A183	2458407.50	2018 Oct 16	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A184	2458407.50	2018 Oct 16	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-A185	2458409.50	2018 Oct 18	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A195	2458418.50	2018 Oct 27	Badr-1	?	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A198	2458424.50	2018 Nov 2	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A199	2458425.50	2018 Nov 3	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A200	2458426.50	2018 Nov 4	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A201	2458429.50	2018 Nov 7	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A202	2458430.50	2018 Nov 8	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A203	2458430.50	2018 Nov 8	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A208	2458441.50	2018 Nov 19	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A214	2458447.50	2018 Nov 25	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A215	2458447.50	2018 Nov 25	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A219	2458451.50	2018 Nov 29	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A220	2458451.50	2018 Nov 29	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A221	2458452.50	2018 Nov 30	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A04	2458489.50	2019 Jan 6	Badr-1	-	Badr-1	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A07	2458497.50	2019 Jan 14	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A10	2458504.50	2019 Jan 21	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A11	2458504.50	2019 Jan 21	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A12	2458509.50	2019 Jan 26	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A28	2458538.50	2019 Feb 24	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A36	2458546.50	2019 Mar 4	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A39	2458548.50	2019 Mar 6	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A43	2458552.50	2019 Mar 10	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A44	2458555.50	2019 Mar 13	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A45	2458562.50	2019 Mar 20	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A46	2458562.50	2019 Mar 20	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A51	2458566.50	2019 Mar 24	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A52	2458570.50	2019 Mar 28	Badr-1	-	Badr-1P	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A63	2458592.50	2019 Apr 19	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A64	2458594.50	2019 Apr 21	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A98	2458654.50	2019 Jun 20	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A20	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A21	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A22	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A23	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A24	2459462.50	2021 Sep 5	Badr-1	-	Badr-F	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-A10	2455183.00	2009 Dec 17 1153?	Gradicom 1	-	-	-	-	-	-	SERRE	-	-	-	40	-	-
2011-S30	2455754.15	2011 Jul 11 1535?	Gradicom 2	-	-	-	-	-	-	CELPA	-	-	-	100	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-A10	2455183.00	2009 Dec 17 1153?	Gradicom 1	-	-	0.000	CITED	SS	-	CITED/	Test	mindef.gov.ar	riojavirtual.com	-
2011-S30	2455754.15	2011 Jul 11 1535?	Gradicom 2	-	-	0.000	CITED	SS	-	CITED/	Test	mindef.gov.ar	riojavirtual.com	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-M48	2438793.50	1965 Feb 2	Gun Projectile 5-inch	-	-	BRL WS 5-1	-	-	-	WS	5IN	-	-	61?	-	-
1965-M49	2438796.50	1965 Feb 5	Gun Projectile 5-inch	-	-	BRL WS 5-2	-	-	-	WS	5IN	-	-	61?	-	-
1965-M50	2438796.50	1965 Feb 5	Gun Projectile 5-inch	-	-	BRL WS 5-3	-	-	-	WS	5IN	-	-	61?	-	-
1965-M51	2438797.50	1965 Feb 6	Gun Projectile 5-inch	-	-	BRL WS 5-4	-	-	-	WS	5IN	-	-	61?	-	-
1965-M52	2438800.50	1965 Feb 9	Gun Projectile 5-inch	-	-	BRL WS 5-5	-	-	-	WS	5IN	-	-	61?	-	-
1965-M53	2438800.50	1965 Feb 9	Gun Projectile 5-inch	-	-	BRL WS 5-6	-	-	-	WS	5IN	-	-	61?	-	-
1965-M54	2438809.50	1965 Feb 18	Gun Projectile 5-inch	-	-	BRL WS 5-7	-	-	-	WS	5IN	-	-	61?	-	-
1965-M55	2438814.50	1965 Feb 23	Gun Projectile 5-inch	-	-	BRL WS 5-8	-	-	-	WS	5IN	-	-	61?	-	-
1965-M56	2438821.50	1965 Mar 2	Gun Projectile 5-inch	-	-	BRL WS 5-9	-	-	-	WS	5IN	-	-	61?	-	-
1965-M57	2438828.50	1965 Mar 9	Gun Projectile 5-inch	-	-	BRL WS 5-10	-	-	-	WS	5IN	-	-	61?	-	-
1965-M58	2438894.50	1965 May 14	Gun Projectile 5-inch	-	-	BRL WS 5-11	-	-	-	WS	5IN	-	-	61?	-	-
1965-M59	2438900.50	1965 May 20	Gun Projectile 5-inch	-	-	BRL WS 5-12	-	-	-	WS	5IN	-	-	61?	-	-
1965-M60	2438940.50	1965 Jun 29	Gun Projectile 5-inch	-	-	BRL WS 5-13	-	-	-	WS	5IN	-	-	61?	-	-
1965-M61	2438963.50	1965 Jul 22	Gun Projectile 5-inch	-	-	BRL WS 5-14	-	-	-	WS	5IN	-	-	61?	-	-
1965-M62	2438984.50	1965 Aug 12	Gun Projectile 5-inch	-	-	BRL WS 5-15	-	-	-	WS	5IN	-	-	61?	-	-
1965-M63	2438990.50	1965 Aug 18	Gun Projectile 5-inch	-	-	BRL WS 5-16	-	-	-	WS	5IN	-	-	61?	-	-
1965-M64	2438995.50	1965 Aug 23	Gun Projectile 5-inch	-	-	BRL WS 5-17	-	-	-	WS	5IN	-	-	61?	-	-
1965-M65	2439004.50	1965 Sep 1	Gun Projectile 5-inch	-	-	BRL WS 5-18	-	-	-	WS	5IN	-	-	61?	-	-
1965-M66	2439005.50	1965 Sep 2	Gun Projectile 5-inch	-	-	BRL WS 5-19	-	-	-	WS	5IN	-	-	61?	-	-
1965-M67	2439011.50	1965 Sep 8	Gun Projectile 5-inch	-	-	BRL WS 5-20	-	-	-	WS	5IN	-	-	61?	-	-
1965-M68	2439011.50	1965 Sep 8	Gun Projectile 5-inch	-	-	BRL WS 5-21	-	-	-	WS	5IN	-	-	61?	-	-
1965-M69	2439014.50	1965 Sep 11	Gun Projectile 5-inch	-	-	BRL WS 5-22	-	-	-	WS	5IN	-	-	61?	-	-
1965-M70	2439017.50	1965 Sep 14	Gun Projectile 5-inch	-	-	BRL WS 5-23	-	-	-	WS	5IN	-	-	61?	-	-
1965-M71	2439019.50	1965 Sep 16	Gun Projectile 5-inch	-	-	BRL WS 5-24	-	-	-	WS	5IN	-	-	61?	-	-
1965-M72	2439031.50	1965 Sep 28	Gun Projectile 5-inch	-	-	BRL WS 5-25	-	-	-	WS	5IN	-	-	61?	-	-
1965-M73	2439037.50	1965 Oct 4	Gun Projectile 5-inch	-	-	BRL WS 5-26	-	-	-	WS	5IN	-	-	61?	-	-
1965-M74	2439038.50	1965 Oct 5	Gun Projectile 5-inch	-	-	BRL WS 5-27	-	-	-	WS	5IN	-	-	61?	-	-
1965-M75	2439044.50	1965 Oct 11	Gun Projectile 5-inch	-	-	BRL WS 5-28	-	-	-	WS	5IN	-	-	61?	-	-
1965-M76	2439046.50	1965 Oct 13	Gun Projectile 5-inch	-	-	BRL WS 5-29	-	-	-	WS	5IN	-	-	61?	-	-
1965-M77	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	BRL WS 5-30	-	-	-	WS	5IN	-	-	61?	-	-
1965-M78	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	BRL WS 5-31	-	-	-	WS	5IN	-	-	61?	-	-
1965-M79	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	BRL WS 5-32	-	-	-	WS	5IN	-	-	61?	-	-
1965-M80	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	BRL WS 5-33	-	-	-	WS	5IN	-	-	61?	-	-
1965-M81	2439074.50	1965 Nov 10	Gun Projectile 5-inch	-	-	BRL WS 5-34	-	-	-	WS	5IN	-	-	61?	-	-
1966-M64	2439143.35	1966 Jan 17 2021	Gun Projectile 5-inch	-	-	1	-	-	-	BARB	5IN	-	-	67	-	-
1966-M65	2439144.09	1966 Jan 18 1411?	Gun Projectile 5-inch	-	-	2	-	-	-	BARB	5IN	-	-	69	-	-
1966-M66	2439144.31	1966 Jan 18 1921	Gun Projectile 5-inch	-	-	3	-	-	-	BARB	5IN	-	-	68	-	-
1966-M67	2439144.34	1966 Jan 18 2007	Gun Projectile 5-inch	-	-	4	-	-	-	BARB	5IN	-	-	67	-	-
1966-M68	2439145.12	1966 Jan 19 1500	Gun Projectile 5-inch	-	-	5	-	-	-	BARB	5IN	-	-	67	-	-
1966-M69	2439145.28	1966 Jan 19 1845	Gun Projectile 5-inch	-	-	6	-	-	-	BARB	5IN	-	-	65	-	-
1966-M70	2439145.33	1966 Jan 19 1957	Gun Projectile 5-inch	-	-	7	-	-	-	BARB	5IN	-	-	65	-	-
1966-M71	2439146.17	1966 Jan 20 1607	Gun Projectile 5-inch	-	-	8	-	-	-	BARB	5IN	-	-	61	-	-
1966-M72	2439146.31	1966 Jan 20 1925	Gun Projectile 5-inch	-	-	9	-	-	-	BARB	5IN	-	-	72	-	-
1966-M73	2439147.17	1966 Jan 21 1602	Gun Projectile 5-inch	-	-	10	-	-	-	BARB	5IN	-	-	66	-	-
1966-M74	2439147.33	1966 Jan 21 1950	Gun Projectile 5-inch	-	-	11	-	-	-	BARB	5IN	-	-	64	-	-
1966-M75	2439150.17	1966 Jan 24 1600	Gun Projectile 5-inch	-	-	12	-	-	-	BARB	5IN	-	-	61	-	-
1966-M76	2439152.17	1966 Jan 26 1610	Gun Projectile 5-inch	-	-	13	-	-	-	BARB	5IN	-	-	64	-	-
1966-M77	2439154.17	1966 Jan 28 1600	Gun Projectile 5-inch	-	-	14	-	-	-	BARB	5IN	-	-	64	-	-
1966-M78	2439157.19	1966 Jan 31 1640	Gun Projectile 5-inch	-	-	15	-	-	-	BARB	5IN	-	-	67	-	-
1966-M79	2439159.32	1966 Feb 2 1935	Gun Projectile 5-inch	-	-	16	-	-	-	BARB	5IN	-	-	60	-	-
1966-M80	2439159.17	1966 Feb 2 1600	Gun Projectile 5-inch	-	-	17	-	-	-	BARB	5IN	-	-	57	-	-
1966-M81	2439164.17	1966 Feb 7 1600	Gun Projectile 5-inch	-	-	18	-	-	-	BARB	5IN	-	-	64	-	-
1966-M06	2439165.30	1966 Feb 8 1916	Gun Projectile 5-inch	-	-	-	-	-	-	WI	5IN?	-	-	60?	-	-
1966-M07	2439165.37	1966 Feb 8 2058	Gun Projectile 5-inch	-	-	-	-	-	-	WI	5IN?	-	-	60?	-	-
1966-M82	2439166.17	1966 Feb 9 1603	Gun Projectile 5-inch	-	-	19	-	-	-	BARB	5IN	-	-	61	-	-
1966-M83	2439168.17	1966 Feb 11 1600	Gun Projectile 5-inch	-	-	20	-	-	-	BARB	5IN	-	-	61	-	-
1966-M84	2439173.17	1966 Feb 16 1600	Gun Projectile 5-inch	-	-	21	-	-	-	BARB	5IN	-	-	58	-	-
1966-M85	2439174.23	1966 Feb 17 1736	Gun Projectile 5-inch	-	-	22	-	-	-	BARB	5IN	-	-	61	-	-
1966-M86	2439175.13	1966 Feb 18 1501	Gun Projectile 5-inch	-	-	23	-	-	-	BARB	5IN	-	-	54	-	-
1966-M92	2439175.71	1966 Feb 19 0509	Gun Projectile 5-inch	-	-	G01	-	-	-	GRLY	5IN	-	-	61?	-	-
1966-M93	2439176.17	1966 Feb 19 1607	Gun Projectile 5-inch	-	-	G02	-	-	-	GRLY	5IN	-	-	61?	-	-
1966-A168	2439176.50	1966 Feb 20 0000	Gun Projectile 5-inch	-	-	G03	-	-	-	GRLY	5IN	-	-	20?	-	-
1966-A169	2439176.62	1966 Feb 20 0300	Gun Projectile 5-inch	-	-	G04	-	-	-	GRLY	5IN	-	-	20?	-	-
1966-M94	2439176.69	1966 Feb 20 0431	Gun Projectile 5-inch	-	-	G05	-	-	-	GRLY	5IN	-	-	61	-	-
1966-M87	2439177.41	1966 Feb 20 2153	Gun Projectile 5-inch	-	-	24	-	-	-	BARB	5IN	-	-	61	-	-
1966-A170	2439179.50	1966 Feb 23 0000	Gun Projectile 5-inch	-	-	G06	-	-	-	GRLY	5IN	-	-	20?	-	-
1966-M88	2439180.44	1966 Feb 23 2238	Gun Projectile 5-inch	-	-	25	-	-	-	BARB	5IN	-	-	66	-	-
1966-M95	2439180.62	1966 Feb 24 0300	Gun Projectile 5-inch	-	-	G07	-	-	-	GRLY	5IN	-	-	50	-	-
1966-M89	2439180.64	1966 Feb 24 0323	Gun Projectile 5-inch	-	-	26	-	-	-	BARB	5IN	-	-	56	-	-
1966-M96	2439180.79	1966 Feb 24 0700	Gun Projectile 5-inch	-	-	G08	-	-	-	GRLY	5IN	-	-	60	-	-
1966-A171	2439181.23	1966 Feb 24 1738	Gun Projectile 5-inch	-	-	G09	-	-	-	GRLY	5IN	-	-	20?	-	-
1966-A172	2439181.36	1966 Feb 24 2038	Gun Projectile 5-inch	-	-	G10	-	-	-	GRLY	5IN	-	-	43	-	-
1966-A173	2439181.50	1966 Feb 24 2355	Gun Projectile 5-inch	-	-	G11	-	-	-	GRLY	5IN	-	-	40	-	-
1966-A174	2439181.56	1966 Feb 25 0133	Gun Projectile 5-inch	-	-	G12	-	-	-	GRLY	5IN	-	-	45?	-	-
1966-M90	2439182.17	1966 Feb 25 1606	Gun Projectile 5-inch	-	-	27	-	-	-	BARB	5IN	-	-	56	-	-
1966-A175	2439182.34	1966 Feb 25 2010	Gun Projectile 5-inch	-	-	G13	-	-	-	GRLY	5IN	-	-	42	-	-
1966-A166	2439186.19	1966 Mar 1 1630	Gun Projectile 5-inch	-	-	28	-	-	-	BARB	5IN	-	-	10?	-	-
1966-A176	2439187.50	1966 Mar 3 0000	Gun Projectile 5-inch	-	-	G14	-	-	-	GRLY	5IN	-	-	41	-	-
1966-A177	2439187.54	1966 Mar 3 0100	Gun Projectile 5-inch	-	-	G15	-	-	-	GRLY	5IN	-	-	42	-	-
1966-A178	2439187.58	1966 Mar 3 0200	Gun Projectile 5-inch	-	-	G16	-	-	-	GRLY	5IN	-	-	45	-	-
1966-A179	2439187.62	1966 Mar 3 0300	Gun Projectile 5-inch	-	-	G17	-	-	-	GRLY	5IN	-	-	45?	-	-
1966-A167	2439188.17	1966 Mar 3 1600	Gun Projectile 5-inch	-	-	29	-	-	-	BARB	5IN	-	-	10?	-	-
1966-M97	2439188.38	1966 Mar 3 2103	Gun Projectile 5-inch	-	-	G18	-	-	-	GRLY	5IN	-	-	61	-	-
1966-M98	2439188.42	1966 Mar 3 2201	Gun Projectile 5-inch	-	-	G19	-	-	-	GRLY	5IN	-	-	60?	-	-
1966-A180	2439188.46	1966 Mar 3 2300	Gun Projectile 5-inch	-	-	G20	-	-	-	GRLY	5IN	-	-	20?	-	-
1966-A181	2439188.50	1966 Mar 4 0000	Gun Projectile 5-inch	-	-	G21	-	-	-	GRLY	5IN	-	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A182	2439188.52	1966 Mar 4 0033	Gun Projectile 5-inch	-	-	G22	-	-	-	GRLY	5IN	-	-	33	-	-
1966-A183	2439188.56	1966 Mar 4 0130	Gun Projectile 5-inch	-	-	G23	-	-	-	GRLY	5IN	-	-	39	-	-
1966-M99	2439188.60	1966 Mar 4 0230	Gun Projectile 5-inch	-	-	G24	-	-	-	GRLY	5IN	-	-	60?	-	-
1966-M91	2439189.17	1966 Mar 4 1608	Gun Projectile 5-inch	-	-	30	-	-	-	BARB	5IN	-	-	59	-	-
1966-M47	2439413.46	1966 Oct 14 2303	Gun Projectile 5-inch	-	-	HARP 5001	-	-	-	YUMA	5IN	-	-	62	-	-
1966-M48	2439424.38	1966 Oct 25 2112	Gun Projectile 5-inch	-	-	HARP 5002	-	-	-	YUMA	5IN	-	-	65	-	-
1966-A162	2439424.44	1966 Oct 25 2232	Gun Projectile 5-inch	-	-	HARP 5003	-	-	-	YUMA	5IN	-	-	48	-	-
1966-M49	2439424.71	1966 Oct 26 0501	Gun Projectile 5-inch	-	-	HARP 5004	-	-	-	YUMA	5IN	-	-	66	-	-
1966-A163	2439426.22	1966 Oct 27 1715	Gun Projectile 5-inch	-	-	HARP 5005	-	-	-	YUMA	5IN	-	-	47	-	-
1966-M50	2439446.42	1966 Nov 16 2210	Gun Projectile 5-inch	-	-	HARP 5006	-	-	-	YUMA	5IN	-	-	68	-	-
1966-M51	2439446.57	1966 Nov 17 0144	Gun Projectile 5-inch	-	-	HARP 5007	-	-	-	YUMA	5IN	-	-	64	-	-
1966-M52	2439446.66	1966 Nov 17 0344	Gun Projectile 5-inch	-	-	HARP 5008	-	-	-	YUMA	5IN	-	-	71	-	-
1966-M53	2439446.74	1966 Nov 17 0544	Gun Projectile 5-inch	-	-	HARP 5009	-	-	-	YUMA	5IN	-	-	60?	-	-
1966-M54	2439446.93	1966 Nov 17 1019	Gun Projectile 5-inch	-	-	HARP 5010	-	-	-	YUMA	5IN	-	-	67	-	-
1966-M55	2439446.97	1966 Nov 17 1110	Gun Projectile 5-inch	-	-	HARP 5011	-	-	-	YUMA	5IN	-	-	66	-	-
1966-M56	2439448.34	1966 Nov 18 2006	Gun Projectile 5-inch	-	-	HARP 5012	-	-	-	YUMA	5IN	-	-	68	-	-
1966-M57	2439448.56	1966 Nov 19 0123	Gun Projectile 5-inch	-	-	HARP 5013	-	-	-	YUMA	5IN	-	-	52	-	-
1966-M58	2439448.64	1966 Nov 19 0315	Gun Projectile 5-inch	-	-	HARP 5014	-	-	-	YUMA	5IN	-	-	67	-	-
1966-M59	2439448.70	1966 Nov 19 0452	Gun Projectile 5-inch	-	-	HARP 5015	-	-	-	YUMA	5IN	-	-	68	-	-
1966-M60	2439448.78	1966 Nov 19 0645	Gun Projectile 5-inch	-	-	HARP 5016	-	-	-	YUMA	5IN	-	-	63	-	-
1966-M61	2439448.84	1966 Nov 19 0803	Gun Projectile 5-inch	-	-	HARP 5017	-	-	-	YUMA	5IN	-	-	71	-	-
1966-A164	2439448.90	1966 Nov 19 0937	Gun Projectile 5-inch	-	-	HARP 5018	-	-	-	YUMA	5IN	-	-	40?	-	-
1966-M62	2439449.00	1966 Nov 19 1154	Gun Projectile 5-inch	-	-	HARP 5019	-	-	-	YUMA	5IN	-	-	60?	-	-
1966-A165	2439449.05	1966 Nov 19 1311	Gun Projectile 5-inch	-	-	HARP 5020	-	-	-	YUMA	5IN	-	-	40?	-	-
1966-M63	2439449.62	1966 Nov 20 0247	Gun Projectile 5-inch	-	-	HARP 5021	-	-	-	YUMA	5IN	-	-	69	-	-
1968-W349	2440141.14	1968 Oct 11 1517	Gun Projectile 5-inch	-	EXAMETNET W 104	Chute	-	-	-	WI	5IN	-	-	68	-	-
1977-M27	2443416.50	1977 Oct?	Gun Projectile 5-inch	-	-	BRL Test	-	-	-	TTR	5IN	-	-	75?	-	-
1977-M28	2443416.50	1977 Oct?	Gun Projectile 5-inch	-	-	BRL Test	-	-	-	TTR	5IN	-	-	75?	-	-
2002-M04	2452283.50	2002 Jan 9	Gun Projectile 5-inch	-	-	ANSR	-	-	-	WI	5IN	-	-	50?	-	-
2002-M05	2452285.50	2002 Jan 11	Gun Projectile 5-inch	-	-	Barrage Round	-	-	-	WI	5IN	-	-	50?	-	-
2003-M03	2452830.50	2003 Jul 10	Gun Projectile 5-inch	-	-	ANSR	-	-	-	WI	5IN	-	-	50?	-	-
2003-M04	2452906.50	2003 Sep 24	Gun Projectile 5-inch	-	-	ANSR	-	-	-	WI	5IN	-	-	50?	-	-
2004-M12	2453196.50	2004 Jul 10	Gun Projectile 5-inch	-	-	ANSR Boost Test	-	-	-	WS	5IN	-	-	50?	-	-
2005-M06	2453674.50	2005 Oct 31	Gun Projectile 5-inch	-	-	ANSR Boost Test	-	-	-	WS	5IN	-	-	50?	-	-
2006-M04	2453787.50	2006 Feb 21	Gun Projectile 5-inch	-	-	ANSR	-	-	-	WS	5IN	-	-	50?	-	-
2008-M04	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	AGMD Round	-	-	-	WI	AMGD	-	-	50?	-	-
2008-M05	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	AGMD Round	-	-	-	WI	AMGD	-	-	50?	-	-
2008-M06	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	AGMD Round	-	-	-	WI	AMGD	-	-	50?	-	-
2008-M07	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	AGMD Round (Inst)	-	-	-	WI	AMGD	-	-	50?	-	-
2008-M08	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	AGMD Round (Inst)	-	-	-	WI	AMGD	-	-	50?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-M48	2438793.50	1965 Feb 2	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M49	2438796.50	1965 Feb 5	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M50	2438796.50	1965 Feb 5	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M51	2438797.50	1965 Feb 6	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M52	2438800.50	1965 Feb 9	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M53	2438800.50	1965 Feb 9	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M54	2438809.50	1965 Feb 18	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M55	2438814.50	1965 Feb 23	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M56	2438821.50	1965 Mar 2	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M57	2438828.50	1965 Mar 9	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M58	2438894.50	1965 May 14	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M59	2438900.50	1965 May 20	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M60	2438940.50	1965 Jun 29	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M61	2438963.50	1965 Jul 22	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M62	2438984.50	1965 Aug 12	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M63	2438990.50	1965 Aug 18	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M64	2438995.50	1965 Aug 23	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M65	2439004.50	1965 Sep 1	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M66	2439005.50	1965 Sep 2	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M67	2439011.50	1965 Sep 8	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M68	2439011.50	1965 Sep 8	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M69	2439014.50	1965 Sep 11	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M70	2439017.50	1965 Sep 14	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M71	2439019.50	1965 Sep 16	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M72	2439031.50	1965 Sep 28	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M73	2439037.50	1965 Oct 4	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M74	2439038.50	1965 Oct 5	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M75	2439044.50	1965 Oct 11	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M76	2439046.50	1965 Oct 13	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M77	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M78	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M79	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M80	2439061.50	1965 Oct 28	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1965-M81	2439074.50	1965 Nov 10	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/Williamson	Aeron	ECOM-5030	-	-
1966-M64	2439143.35	1966 Jan 17 2021	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M65	2439144.09	1966 Jan 18 1411?	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M66	2439144.31	1966 Jan 18 1921	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M67	2439144.34	1966 Jan 18 2007	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M68	2439145.12	1966 Jan 19 1500	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M69	2439145.28	1966 Jan 19 1845	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M70	2439145.33	1966 Jan 19 1957	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M71	2439146.17	1966 Jan 20 1607	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M72	2439146.31	1966 Jan 20 1925	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M73	2439147.17	1966 Jan 21 1602	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M74	2439147.33	1966 Jan 21 1950	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M75	2439150.17	1966 Jan 24 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M76	2439152.17	1966 Jan 26 1610	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M77	2439154.17	1966 Jan 28 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M78	2439157.19	1966 Jan 31 1640	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M79	2439159.32	1966 Feb 2 1935	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M80	2439159.17	1966 Feb 2 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M81	2439164.17	1966 Feb 7 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-MO6	2439165.30	1966 Feb 8 1916	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M07	2439165.37	1966 Feb 8 2058	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M82	2439166.17	1966 Feb 9 1603	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M83	2439168.17	1966 Feb 11 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M84	2439173.17	1966 Feb 16 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M85	2439174.23	1966 Feb 17 1736	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M86	2439175.13	1966 Feb 18 1501	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M92	2439175.71	1966 Feb 19 0509	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M93	2439176.17	1966 Feb 19 1607	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A168	2439176.50	1966 Feb 20 0000	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A169	2439176.62	1966 Feb 20 0300	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M94	2439176.69	1966 Feb 20 0431	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M87	2439177.41	1966 Feb 20 2153	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-A170	2439179.50	1966 Feb 23 0000	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M88	2439180.44	1966 Feb 23 2238	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M95	2439180.62	1966 Feb 24 0300	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M89	2439180.64	1966 Feb 24 0323	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M96	2439180.79	1966 Feb 24 0700	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A171	2439181.23	1966 Feb 24 1738	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A172	2439181.36	1966 Feb 24 2038	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A173	2439181.50	1966 Feb 24 2355	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A174	2439181.56	1966 Feb 25 0133	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M90	2439182.17	1966 Feb 25 1606	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-A175	2439182.34	1966 Feb 25 2010	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A166	2439186.19	1966 Mar 1 1630	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-A176	2439187.50	1966 Mar 3 0000	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A177	2439187.54	1966 Mar 3 0100	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A178	2439187.58	1966 Mar 3 0200	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A179	2439187.62	1966 Mar 3 0300	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A167	2439188.17	1966 Mar 3 1600	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M97	2439188.38	1966 Mar 3 2103	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M98	2439188.42	1966 Mar 3 2201	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A180	2439188.46	1966 Mar 3 2300	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A181	2439188.50	1966 Mar 4 0000	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A182	2439188.52	1966 Mar 4 0033	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-A183	2439188.56	1966 Mar 4 0130	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M99	2439188.60	1966 Mar 4 0230	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-TN1657	-	-
1966-M91	2439189.17	1966 Mar 4 1608	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1771	-	-
1966-M47	2439413.46	1966 Oct 14 2303	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M48	2439424.38	1966 Oct 25 2112	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-A162	2439424.44	1966 Oct 25 2232	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M49	2439424.71	1966 Oct 26 0501	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-A163	2439426.22	1966 Oct 27 1715	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M50	2439446.42	1966 Nov 16 2210	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M51	2439446.57	1966 Nov 17 0144	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M52	2439446.66	1966 Nov 17 0344	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M53	2439446.74	1966 Nov 17 0544	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M54	2439446.93	1966 Nov 17 1019	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M55	2439446.97	1966 Nov 17 1110	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M56	2439448.34	1966 Nov 18 2006	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M57	2439448.56	1966 Nov 19 0123	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M58	2439448.64	1966 Nov 19 0315	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M59	2439448.70	1966 Nov 19 0452	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M60	2439448.78	1966 Nov 19 0645	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M61	2439448.84	1966 Nov 19 0803	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-A164	2439448.90	1966 Nov 19 0937	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M62	2439449.00	1966 Nov 19 1154	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-A165	2439449.05	1966 Nov 19 1311	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-M63	2439449.62	1966 Nov 20 0247	Gun Projectile 5-inch	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1968-W349	2440141.14	1968 Oct 11 1517	Gun Projectile 5-inch	-	EXAMETNET W 104	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1977-M27	2443416.50	1977 Oct?	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/	Test	SandiaNews7712	-	-
1977-M28	2443416.50	1977 Oct?	Gun Projectile 5-inch	-	-	0.000	BRL	SS	-	BRL/	Test	SandiaNews7712	-	-
2002-M04	2452283.50	2002 Jan 9	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2002-M05	2452285.50	2002 Jan 11	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2003-M03	2452830.50	2003 Jul 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2003-M04	2452906.50	2003 Sep 24	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2004-M12	2453196.50	2004 Jul 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2005-M06	2453674.50	2005 Oct 31	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2006-M04	2453787.50	2006 Feb 21	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	onr.navy.mil	-	-
2008-M04	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	WallopsNL080505	-	-
2008-M05	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	WallopsNL080505	-	-
2008-M06	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	WallopsNL080505	-	-
2008-M07	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	WallopsNL080505	-	-
2008-M08	2454566.50	2008 Apr 10	Gun Projectile 5-inch	-	-	0.000	USN	SS	-	USN/	Test	WallopsNL080505	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S679	2439959.27	1968 Apr 12 1823	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	96	-	-
1968-S680	2439964.36	1968 Apr 17 2043:01	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	94	-	-
1968-S681	2440111.39	1968 Sep 11 2115	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	92	-	-
1968-S682	2440111.47	1968 Sep 11 2315	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	93	-	-
1968-S683	2440111.64	1968 Sep 12 0327	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	88	-	-
1969-S695	2440266.55	1969 Feb 14 0107	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	100?	-	-
1969-S696	2440266.64	1969 Feb 14 0324	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	100?	-	-
1969-S697	2440266.71	1969 Feb 14 0505	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	99	-	-
1969-S698	2440266.80	1969 Feb 14 0705	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	97	-	-
1969-S699	2440266.88	1969 Feb 14 0910	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	100?	-	-
1969-S700	2440266.97	1969 Feb 14 1123	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	103	-	-
1969-S710	2440376.25	1969 Jun 3 1758	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	102	-	-
1969-S711	2440421.22	1969 Jul 18 1716	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	95	-	-
1969-S712	2440426.46	1969 Jul 23 2259	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	99	-	-
1969-S713	2440427.93	1969 Jul 25 1019	Gun Projectile 7-inch	-	-	Cesium package	-	-	-	WI	7IN	-	-	92	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S679	2439959.27	1968 Apr 12 1823	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1968-S680	2439964.36	1968 Apr 17 2043:01	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-6865	-	-
1968-S681	2440111.39	1968 Sep 11 2115	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1968-S682	2440111.47	1968 Sep 11 2315	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1968-S683	2440111.64	1968 Sep 12 0327	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1969-S695	2440266.55	1969 Feb 14 0107	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	-	-
1969-S696	2440266.64	1969 Feb 14 0324	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	-	-
1969-S697	2440266.71	1969 Feb 14 0505	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	NRL-7105	-
1969-S698	2440266.80	1969 Feb 14 0705	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	NRL-7105	-
1969-S699	2440266.88	1969 Feb 14 0910	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	-	-
1969-S700	2440266.97	1969 Feb 14 1123	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/	Meteo	WI-PR69-5	NRL-7105	-
1969-S710	2440376.25	1969 Jun 3 1758	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1969-S711	2440421.22	1969 Jul 18 1716	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1969-S712	2440426.46	1969 Jul 23 2259	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-
1969-S713	2440427.93	1969 Jul 25 1019	Gun Projectile 7-inch	-	-	0.000	BRL	SS	-	BRL/Murphy	Meteo	NRL-7105	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M58	2438050.50	1963 Jan 21	Martlet 1	-	-	1A I	-	-	-	BARB	HARP16	-	-	26	-	-
1963-M59	2438061.50	1963 Feb 1	Martlet 1	-	-	1B I	-	-	-	BARB	HARP16	-	-	27	-	-
1963-S621	2438119.50	1963 Apr	Martlet 2	-	-	2A II-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-S280	2438198.50	1963 Jun 18	Martlet 2	-	-	2A II-2	-	-	-	BARB	HARP16	-	-	92	-	-
1963-S622	2438180.50	1963 Jun	Martlet 2	-	-	2A II-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-M01	2438180.50	1963 Jun	Martlet 2	-	-	2A II-4	-	-	-	BARB	HARP16	-	-	70?	-	-
1963-S623	2438269.50	1963 Aug 28	Martlet 2	-	-	2B III-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-S624	2438269.50	1963 Aug 28?	Martlet 2	-	-	2B III-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-S430	2438277.50	1963 Sep 5	Martlet 3A	-	-	3A III-1	-	-	-	BARB	HARP16	-	-	100	-	-
1963-S625	2438277.50	1963 Sep 5?	Martlet 3A	-	-	3A III-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-S626	2438277.50	1963 Sep 5?	Martlet 3A	-	-	3A III-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1963-S627	2438277.50	1963 Sep 5?	Martlet 3A	-	-	3A III-4	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-M01	2438398.50	1964 Jan 4	Martlet 2	-	-	2A IV-1	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S709	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-2	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S710	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-3	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S711	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-4	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S712	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-5	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S713	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-6	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S714	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-7	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S715	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-8	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S716	2438394.50	1964 Jan	Martlet 2	-	-	2A IV-9	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S717	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S718	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S719	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S720	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-4	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S721	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-5	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S722	2438394.50	1964 Jan	Martlet 3A	-	-	3A IV-6	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S723	2438409.50	1964 Jan 15	Martlet 3A	-	-	3A IV-7	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S724	2438569.50	1964 Jun 23	Martlet 2	-	-	2A V-1	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S725	2438571.50	1964 Jun 25?	Martlet 2	-	-	2A V-2	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S726	2438571.50	1964 Jun 25?	Martlet 2	-	-	2A V-3	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S727	2438572.50	1964 Jun 26	Martlet 2	-	-	2A V-4	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S728	2438582.50	1964 Jul 6	Martlet 2	-	-	2A VI-1	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S729	2438584.46	1964 Jul 7 2302	Martlet 2	-	42 TMA-1	2A VI-2 IRIS	-	-	-	BARB	HARP16	-	-	109	-	-
1964-S730	2438584.55	1964 Jul 8 0110	Martlet 2	-	43 TMA-2	2A VI-3 JANET	-	-	-	BARB	HARP16	-	-	95	-	-
1964-S731	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-4	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S732	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-5	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S733	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-6	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S734	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-7	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S735	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-8	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S736	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-9	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S737	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-10	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S738	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-11	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S739	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-12	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S740	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-13	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S741	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-14	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S742	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-15	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S743	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-16	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S744	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-17	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S745	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-18	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S746	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-19	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S747	2438576.50	1964 Jul	Martlet 2	-	-	2A VI-20	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S748	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-5	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S749	2438599.46	1964 Jul 22 2300	Martlet 2	-	62 TMA-3	2A VI-21 SHARON	-	-	-	BARB	HARP16	-	-	98	-	-
1964-S750	2438599.50	1964 Jul 23?	Martlet 2	-	-	2A VI-22	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S751	2438599.50	1964 Jul 23?	Martlet 3B	-	-	3B VI-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S752	2438599.50	1964 Jul 23?	Martlet 3B	-	-	3B VI-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S753	2438599.50	1964 Jul 23?	Martlet 3B	-	-	3B VI-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S754	2438601.49	1964 Jul 24 2345	Martlet 2	-	67 TMA-4	2A VI-23 QUEENIE	-	-	-	BARB	HARP16	-	-	96	-	-
1964-S755	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-5	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S756	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-6	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S757	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-7	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S758	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-8	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S759	2438576.50	1964 Jul	Martlet 3B	-	-	3B VI-9	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S760	2438601.50	1964 Jul 25	Martlet 3B	-	-	3B VI-10	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S761	2438646.50	1964 Sep 8	Martlet 3B	-	-	3B VII-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S762	2438646.50	1964 Sep 8?	Martlet 3B	-	-	3B VII-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S763	2438647.50	1964 Sep 9?	Martlet 3B	-	-	3B VII-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S764	2438647.50	1964 Sep 9	Martlet 3B	-	77?	3B VII-4	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S765	2438737.50	1964 Dec 8	Martlet 2	-	84?	2A IX-1	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S766	2438729.50	1964 Dec	Martlet 2	-	-	2A IX-2	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S767	2438729.50	1964 Dec	Martlet 2	-	-	2A IX-3	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S768	2438729.50	1964 Dec	Martlet 2	-	-	2A IX-4	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S769	2438729.50	1964 Dec	Martlet 2	-	-	2C IX-1	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S770	2438729.50	1964 Dec	Martlet 2	-	-	2C IX-2	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S771	2438729.50	1964 Dec	Martlet 2	-	-	2C IX-3	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S772	2438729.50	1964 Dec	Martlet 2	-	-	2C IX-4	-	-	-	BARB	HARP16	-	-	80	-	-
1964-S773	2438729.50	1964 Dec	Martlet 3B	-	-	3B IX-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S774	2438729.50	1964 Dec	Martlet 3B	-	-	3B IX-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1964-S775	2438743.50	1964 Dec 14	Martlet 3B	-	-	3B IX-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1965-S705	2438842.50	1965 Mar 23	Martlet 2	-	-	2A X-1	-	-	-	BARB	HARP16	-	-	80	-	-
1965-S706	2438842.50	1965 Mar 23?	Martlet 2	-	-	2A X-2	-	-	-	BARB	HARP16	-	-	80	-	-
1965-S709	2438843.50	1965 Mar 24?	Martlet 2	-	-	2C X-1	-	-	-	BARB	HARP16	-	-	80	-	-
1965-S707	2438843.56	1965 Mar 24 0124	Martlet 2	-	97 TMA-5	2A X-3 LUPACA	-	-	-	BARB	HARP16	-	-	114	-	-
1965-S708	2438843.71	1965 Mar 24 0503	Martlet 2	-	98 TMA-6	2A X-4 MIAMI	-	-	-	BARB	HARP16	-	-	110	-	-
1965-S710	2438843.50	1965 Mar 24?	Martlet 2	-	99	2C X-2	-	-	-	BARB	HARP16	-	-	80	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S711	2438843.50	1965 Mar 24?	Martlet 2	-	100	2C X-3	-	-	-	BARB	HARP16	-	-	80	-	-
1965-S744	2438844.50	1965 Mar 25?	Martlet 3B	-	101	3B X-1	-	-	-	BARB	HARP16	-	-	80?	-	-
1965-S745	2438844.50	1965 Mar 25?	Martlet 3B	-	102	3B X-2	-	-	-	BARB	HARP16	-	-	80?	-	-
1965-S712	2438846.76	1965 Mar 27 0620	Martlet 2	-	103 TMA-7	2C X-4 NOOTKA	-	-	-	BARB	HARP16	-	-	111	-	-
1965-S713	2438848.50	1965 Mar 29 0002	Martlet 2	-	104 TMA-8	2C X-5 OTTAWA	-	-	-	BARB	HARP16	-	-	119	-	-
1965-S714	2438848.60	1965 Mar 29 0220	Martlet 2	-	105 TMA-9	2C X-6 PUEBLO	-	-	-	BARB	HARP16	-	-	117	-	-
1965-S715	2438844.50	1965 Mar 25?	Martlet 2	-	106?	2D X-1	-	-	-	BARB	HARP16	-	-	80	-	-
1965-S716	2438848.50	1965 Mar 29?	Martlet 3B	-	107?	3B X-3	-	-	-	BARB	HARP16	-	-	80?	-	-
1965-S717	2438912.20	1965 May 31 1647	Martlet 2	-	108 Chaff	2A XI-1 APPIUS	-	-	-	BARB	HARP16	-	-	84	-	-
1965-S718	2438914.26	1965 Jun 2 1815	Martlet 2	-	109 Chaff	2A XI-2 RUFUS	-	-	-	BARB	HARP16	-	-	79	-	-
1965-S731	2438915.23	1965 Jun 3 1732	Martlet 3B	-	110 Grain test	3B XI-1 DEVILS	-	-	-	BARB	HARP16	-	-	1?	-	-
1965-S341	2438915.37	1965 Jun 3 2054	Martlet 2C	-	111 Telem	2C XI-1 IRE	-	-	-	BARB	HARP16	-	-	105	-	-
1965-S720	2438915.50	1965 Jun 3 2357	Martlet 2	-	112 TMA-10	2C XI-2 MARIUS	-	-	-	BARB	HARP16	-	-	111	-	-
1965-S721	2438915.61	1965 Jun 4 0241	Martlet 2	-	113 TMA-11	2C XI-5 NERO	-	-	-	BARB	HARP16	-	-	94	-	-
1965-S722	2438915.73	1965 Jun 4 0534:56	Martlet 2	-	114 TMA-12 B-12	2C XI-6 ELAGABULUS	-	-	-	BARB	HARP16	-	-	119	-	-
1965-S723	2438915.80	1965 Jun 4 0717	Martlet 2	-	115 TMA-13	2C XI-7 FABIUS	-	-	-	BARB	HARP16	-	-	110	-	-
1965-S394	2438917.12	1965 Jun 5 1500	Martlet 2	-	116	2C XI GRACCHUS	-	-	-	BARB	HARP16	-	-	115	-	-
1965-S719	2438917.22	1965 Jun 5 1722	Martlet 2	-	117 Chaff	2A XI-3 SPARTA	-	-	-	BARB	HARP16	-	-	76	-	-
1965-S343	2438917.35	1965 Jun 5 2020	Martlet 2	-	118	2C XI-2 BRUTUS	-	-	-	BARB	HARP16	-	-	120	-	-
1965-S344	2438917.45	1965 Jun 5 2243	Martlet 2	-	119	2C XI-3 JANUS	-	-	-	BARB	HARP16	-	-	117	-	-
1965-S732	2438919.17	1965 Jun 7 1611	Martlet 3B	-	120 Grain test	3B XI-2 EAGLE	-	-	-	BARB	HARP16	-	-	1?	-	-
1965-S728	2438921.45	1965 Jun 9 2251	Martlet 2	-	121 TMA	2C XI-12 LUCRETIA	-	-	-	BARB	HARP16	-	-	118	-	-
1965-S724	2438921.58	1965 Jun 10 0157	Martlet 2	-	122 TMA-14	2C XI-8 OVID	-	-	-	BARB	HARP16	-	-	105	-	-
1965-S725	2438921.67	1965 Jun 10 0358	Martlet 2	-	123 TMA-15	2C XI-9 CICERO	-	-	-	BARB	HARP16	-	-	107	-	-
1965-S726	2438921.77	1965 Jun 10 0635	Martlet 2	-	124 TMA	2C XI-10 DIANA	-	-	-	BARB	HARP16	-	-	109	-	-
1965-S727	2438922.55	1965 Jun 11 0107	Martlet 2	-	125 TMA-16	2C XI-11 PLINY	-	-	-	BARB	HARP16	-	-	133	-	-
1965-S729	2438923.79	1965 Jun 12 0700	Martlet 2	-	126 TMA	2C XI-13 QUINTUS	-	-	-	BARB	HARP16	-	-	135	-	-
1965-S730	2438923.85	1965 Jun 12 0831	Martlet 2	-	127 TMA	2C XI-14 HADRIAN	-	-	-	BARB	HARP16	-	-	133	-	-
1965-S733	2438976.50	1965 Aug 4	Martlet 2	-	128	2C XII-1	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S734	2438978.51	1965 Aug 6 0020	Martlet 2	-	129 TMA-17	2C XII-2	-	-	-	BARB	HARP16	-	-	107	-	-
1965-S735	2438978.78	1965 Aug 6 0644	Martlet 2	-	130 TMA-18	2C XII-3	-	-	-	BARB	HARP16	-	-	106	-	-
1965-S746	2439003.50	1965 Sep	Martlet 2	-	-	2A XIII-1	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S736	2439017.50	1965 Sep 14	Martlet 2	-	-	2C XIII-1	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S748	2439024.48	1965 Sep 20 2330:00	Martlet 2	-	133 TMA-19 B-19	2C XIII-8 BELAIR	-	-	-	BARB	HARP16	-	-	132	-	-
1965-S749	2439024.54	1965 Sep 21 0052	Martlet 2	-	134 TMA-20	2C XIII-9 CONOWINGO	-	-	-	BARB	HARP16	-	-	136	-	-
1965-S737	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-2	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S750	2439024.68	1965 Sep 21 0424	Martlet 2	-	136 TMA-21	2C XIII-10 EDGEWOOD	-	-	-	BARB	HARP16	-	-	123	-	-
1965-S751	2439024.76	1965 Sep 21 0621	Martlet 2	-	137 TMA-22	2C XIII-11 FO. GREEN	-	-	-	BARB	HARP16	-	-	128	-	-
1965-S752	2439024.82	1965 Sep 21 0735	Martlet 2	-	138 TMA-23	2C XIII-12 GALENA	-	-	-	BARB	HARP16	-	-	138	-	-
1965-S753	2439024.88	1965 Sep 21 0900	Martlet 2	-	139 TMA-24	2C XIII-13 HAVRE DE	-	-	-	BARB	HARP16	-	-	123	-	-
1965-S738	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-3	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S739	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-4	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S754	2439026.48	1965 Sep 22 2324	Martlet 2	-	142 TMA-25	2C XIII-14 LINTHICUM	-	-	-	BARB	HARP16	-	-	127	-	-
1965-S740	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-5	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S755	2439026.74	1965 Sep 23 0550	Martlet 2	-	144 TMA-26	2C XIII-15 MAGNOLIA	-	-	-	BARB	HARP16	-	-	126	-	-
1965-S756	2439026.80	1965 Sep 23 0715	Martlet 2	-	145 TMA-27	2C XIII-16 NANTICOKE	-	-	-	BARB	HARP16	-	-	133	-	-
1965-S757	2439026.84	1965 Sep 23 0807	Martlet 2	-	146 TMA-28	2C XIII-17 OLNEY	-	-	-	BARB	HARP16	-	-	126	-	-
1965-S758	2439026.88	1965 Sep 23 0905	Martlet 2	-	147 TMA-29	2C XIII-18 PERRYMAN	-	-	-	BARB	HARP16	-	-	124	-	-
1965-S741	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-6	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S742	2439003.50	1965 Sep	Martlet 2	-	-	2C XIII-7	-	-	-	BARB	HARP16	-	-	100	-	-
1965-S747	2439028.50	1965 Sep 25	Martlet 2	-	-	2A XIII-2	-	-	-	BARB	HARP16	-	-	100	-	-
1965-A178	2439080.17	1965 Nov 15 1600	Martlet 3B	-	154	3B FOAM	-	-	-	BARB	HARP16	-	-	11	-	-
1965-A179	2439080.34	1965 Nov 15 2003	Martlet 3B	-	155	3B GOOSE	-	-	-	BARB	HARP16	-	-	10?	-	-
1965-S759	2439081.22	1965 Nov 16 1718	Martlet 2	-	156	2C2 ZENMAC	-	-	-	BARB	HARP16	-	-	110	-	-
1965-S760	2439081.43	1965 Nov 16 2215	Martlet 2	-	157	2C3 CESIUM	-	-	-	BARB	HARP16	-	-	119	-	-
1965-A180	2439082.27	1965 Nov 17 1831	Martlet 3B	-	158	3B HAHA	-	-	-	BARB	HARP16	-	-	12	-	-
1965-S761	2439082.34	1965 Nov 17 2016	Martlet 2	-	159	2C3 BRIDGETOWN Chaff	-	-	-	BARB	HARP16	-	-	85	-	-
1965-S763	2439082.43	1965 Nov 17 2215:00	Martlet 2	-	160 B-31	2C2 CHRISTCHURCH	-	-	-	BARB	HARP16	-	-	120	-	-
1965-S764	2439082.48	1965 Nov 17 2334:00	Martlet 2	-	161 B-32	2C2 DOVER	-	-	-	BARB	HARP16	-	-	122	-	-
1965-M34	2439082.53	1965 Nov 18 0038	Martlet 2	-	162	2C2 ENTERPRISE	-	-	-	BARB	HARP16	-	-	71	-	-
1965-S765	2439082.64	1965 Nov 18 0315:00	Martlet 2	-	163 B-33	2C2 FOULBAY	-	-	-	BARB	HARP16	-	-	123	-	-
1965-S766	2439082.70	1965 Nov 18 0445	Martlet 2	-	164	2C2 GUNHILL	-	-	-	BARB	HARP16	-	-	126	-	-
1965-A181	2439082.75	1965 Nov 18 0558	Martlet 2	-	165	2C2 HASTINGS	-	-	-	BARB	HARP16	-	-	32	-	-
1965-S767	2439082.81	1965 Nov 18 0730	Martlet 2	-	166	2C2 INDIAN GROUND	-	-	-	BARB	HARP16	-	-	122	-	-
1965-S768	2439082.88	1965 Nov 18 0908	Martlet 2	-	167	2C2 JAMESTOWN	-	-	-	BARB	HARP16	-	-	119	-	-
1965-M35	2439084.23	1965 Nov 19 1730	Martlet 2	-	168	2C3 KENDALL	-	-	-	BARB	HARP16	-	-	72	-	-
1965-S769	2439085.17	1965 Nov 20 1600	Martlet 2	-	170	2C2 WORTHING	-	-	-	BARB	HARP16	-	-	104	-	-
1965-M36	2439085.37	1965 Nov 20 2047	Martlet 2	-	171	2C3 LANCASTER	-	-	-	BARB	HARP16	-	-	58	-	-
1965-S770	2439086.17	1965 Nov 21 1610	Martlet 2	-	172	2C2 VAUXHALL	-	-	-	BARB	HARP16	-	-	128	-	-
1965-S640	2439087.46	1965 Nov 22 2309	Martlet 2	-	173	2C2 MAXWELL	-	-	-	BARB	HARP16	-	-	142	-	-
1965-S771	2439087.48	1965 Nov 22 2330	Martlet 2	-	174	2C2 NEEDHAM'S POINT	-	-	-	BARB	HARP16	-	-	133	-	-
1965-A182	2439087.54	1965 Nov 23 0055	Martlet 2	-	175	2C2 OLDBURY	-	-	-	BARB	HARP16	-	-	31	-	-
1965-S642	2439087.62	1965 Nov 23 0259	Martlet 2	-	176	2C2 PARAGON	-	-	-	BARB	HARP16	-	-	135	-	-
1965-S643	2439087.73	1965 Nov 23 0531	Martlet 2	-	177	2C2 QUEENS FORT	-	-	-	BARB	HARP16	-	-	133	-	-
1965-S644	2439087.81	1965 Nov 23 0728	Martlet 2	-	178	2C2 ROCKLEY	-	-	-	BARB	HARP16	-	-	143	-	-
1965-S645	2439087.89	1965 Nov 23 0916	Martlet 2	-	179	2C2 SEAWELL	-	-	-	BARB	HARP16	-	-	141	-	-
1966-M05	2439159.23	1966 Feb 2 1735	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	53	-	-
1966-A27	2439164.17	1966 Feb 7 1600	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	46?	-	-
1966-A37	2439168.17	1966 Feb 11 1600	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	46?	-	-
1966-M09	2439173.21	1966 Feb 16 1700	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-S706	2439174.54	1966 Feb 18 0103:00	Martlet 2	-	-	B-43 INAUGUA	-	-	-	BARB	HARP16	-	-	123	-	-
1966-M10	2439177.41	1966 Feb 20 2153	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-M11	2439180.44	1966 Feb 23 2238	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-M12	2439180.64	1966 Feb 24 0323	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-M13	2439180.76	1966 Feb 24 0616	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-S707	2439180.89	1966 Feb 24 0923:30	Martlet 2	-	-	B-49 ST THOMAS	-	-	-	BARB	HARP16	-	-	118	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-M14	2439181.17	1966 Feb 24 1600	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-M15	2439182.17	1966 Feb 25 1600	Martlet 2	-	-	-	-	-	-	BARB	HARP16	-	-	60?	-	-
1966-S713	2439290.64	1966 Jun 14 0325	Martlet 2C	-	-	Y-1 SHOT-04	-	-	-	YUMA	HARP16	-	-	126	-	-
1966-S714	2439290.72	1966 Jun 14 0515	Martlet 2C	-	-	Y-2 SHOT-05	-	-	-	YUMA	HARP16	-	-	121	-	-
1966-S715	2439291.70	1966 Jun 15 0446	Martlet 2C	-	-	Y-3 SHOT-06	-	-	-	YUMA	HARP16	-	-	122	-	-
1966-S716	2439291.76	1966 Jun 15 0617	Martlet 2C	-	-	SHOT-07	-	-	-	YUMA	HARP16	-	-	100?	-	-
1966-S717	2439291.85	1966 Jun 15 0827	Martlet 2	-	-	Y-4 MCCONNELL SHOT-8	-	-	-	YUMA	HARP16	-	-	114	-	-
1966-S718	2439291.92	1966 Jun 15 1005	Martlet 2C	-	-	Y-5 SHOT-09	-	-	-	YUMA	HARP16	-	-	125	-	-
1966-S708	2439388.54	1966 Sep 20 0055:09	Martlet 2	-	-	B-51 BETA	-	-	-	BARB	HARP16	-	-	128	-	-
1966-S709	2439388.60	1966 Sep 20 0224:06	Martlet 2	-	-	B-52 GAMMA	-	-	-	BARB	HARP16	-	-	134	-	-
1966-S710	2439388.67	1966 Sep 20 0410:00	Martlet 2	-	-	B-53 DELTA	-	-	-	BARB	HARP16	-	-	122	-	-
1966-S711	2439388.77	1966 Sep 20 0624:00	Martlet 2	-	-	B-55 ZETA	-	-	-	BARB	HARP16	-	-	117	-	-
1966-S712	2439388.84	1966 Sep 20 0803:00	Martlet 2	-	-	B-57 THETA	-	-	-	BARB	HARP16	-	-	128	-	-
1966-S719	2439424.71	1966 Oct 26 0459	Martlet 2C	-	-	SHOT-10	-	-	-	YUMA	HARP16	-	-	94	-	-
1966-S720	2439425.66	1966 Oct 27 0355	Martlet 2C	-	-	SHOT-11	-	-	-	YUMA	HARP16	-	-	125	-	-
1966-S721	2439425.79	1966 Oct 27 0656	Martlet 2C	-	-	SHOT-12	-	-	-	YUMA	HARP16	-	-	165	-	-
1966-S722	2439426.45	1966 Oct 27 2247	Gun Projectile 16-inch	-	Lahive 15-deg Cone	SHOT-14	-	-	-	YUMA	HARP16	-	-	80?	-	-
1966-S723	2439426.62	1966 Oct 28 0252	Martlet 2C	-	-	SHOT-13	-	-	-	YUMA	HARP16	-	-	126	-	-
1966-S724	2439426.70	1966 Oct 28 0446	Martlet 2C	-	-	SHOT-15	-	-	-	YUMA	HARP16	-	-	163	-	-
1966-S725	2439426.76	1966 Oct 28 0620	Martlet 2C	-	-	SHOT-16	-	-	-	YUMA	HARP16	-	-	100?	-	-
1966-S627	2439446.57	1966 Nov 17 0141:24	Martlet 2C	-	-	Y-10 SHOT-17	-	-	-	YUMA	HARP16	-	-	121	-	-
1966-S628	2439446.65	1966 Nov 17 0341:52	Martlet 2C	-	-	Y-11 SHOT-18	-	-	-	YUMA	HARP16	-	-	120	-	-
1966-S629	2439446.73	1966 Nov 17 0532:07	Martlet 2C	-	-	Y-12 SHOT-19	-	-	-	YUMA	HARP16	-	-	114	-	-
1966-S630	2439446.80	1966 Nov 17 0716:13	Martlet 2C	-	-	Y-13 SHOT-20	-	-	-	YUMA	HARP16	-	-	126	-	-
1966-S631	2439446.93	1966 Nov 17 1016	Martlet 2C	-	-	SHOT-21	-	-	-	YUMA	HARP16	-	-	100?	-	-
1966-S635	2439448.55	1966 Nov 19 0118:47	Martlet 2C	-	-	Y-14 SHOT-22	-	-	-	YUMA	HARP16	-	-	122	-	-
1966-S636	2439448.63	1966 Nov 19 0312:21	Martlet 2C	-	-	Y-15 SHOT-23	-	-	-	YUMA	HARP16	-	-	125	-	-
1966-S637	2439448.70	1966 Nov 19 0449:42	Martlet 2C	-	-	Y-16 SHOT-24	-	-	-	YUMA	HARP16	-	-	155	-	-
1966-S638	2439448.78	1966 Nov 19 0643:09	Martlet 2C	-	-	Y-17 SHOT-25	-	-	-	YUMA	HARP16	-	-	149	-	-
1966-S639	2439448.83	1966 Nov 19 0801:22	Martlet 2C	-	-	Y-18 SHOT-26	-	-	-	YUMA	HARP16	-	-	161	-	-
1966-S640	2439448.90	1966 Nov 19 0935:35	Martlet 2C	-	-	Y-19 SHOT-27	-	-	-	YUMA	HARP16	-	-	122	-	-
1966-S641	2439449.00	1966 Nov 19 1152:53	Martlet 2C	-	-	Y-20 SHOT-28	-	-	-	YUMA	HARP16	-	-	180	-	-
1966-S726	2439449.05	1966 Nov 19 1308	Martlet 2C	-	-	SHOT-29	-	-	-	YUMA	HARP16	-	-	100?	-	-
1966-S643	2439449.61	1966 Nov 20 0245:00	Martlet 2C	-	-	Y-21 SHOT-30	-	-	-	YUMA	HARP16	-	-	146	-	-
1966-S644	2439449.68	1966 Nov 20 0421:29	Martlet 2C	-	-	Y-22 SHOT-31	-	-	-	YUMA	HARP16	-	-	112	-	-
1966-S645	2439449.73	1966 Nov 20 0537:53	Martlet 2C	-	-	Y-23 SHOT-32	-	-	-	YUMA	HARP16	-	-	113	-	-
1966-S646	2439449.79	1966 Nov 20 0659:14	Martlet 2C	-	-	Y-24 SHOT-33	-	-	-	YUMA	HARP16	-	-	168	-	-
1967-S607	2439537.55	1967 Feb 16 0117:00	Martlet 2	-	-	B-59 BELFAST	-	-	-	BARB	HARP16	-	-	123	-	-
1967-S611	2439537.66	1967 Feb 16 0356:00	Martlet 2	-	-	B-61 DUBLIN	-	-	-	BARB	HARP16	-	-	117	-	-
1967-S612	2439538.61	1967 Feb 17 0245:00	Martlet 2	-	-	B-63 HOLLYWOOD	-	-	-	BARB	HARP16	-	-	114	-	-
1967-S613	2439538.85	1967 Feb 17 0817:00	Martlet 2	-	-	B-65 LIMERICK	-	-	-	BARB	HARP16	-	-	110	-	-
1967-S608	2439654.63	1967 Jun 13 0314:04	Martlet 2	-	-	Y-26 TRAIL 38	-	-	-	YUMA	HARP16	-	-	136	-	-
1967-S609	2439663.62	1967 Jun 22 0247:00	Martlet 2	-	-	B-67 CAIRO	-	-	-	BARB	HARP16	-	-	107	-	-
1967-S610	2439664.49	1967 Jun 22 2351:00	Martlet 2	-	-	B-68 DURBAN	-	-	-	BARB	HARP16	-	-	110	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M58	2438050.50	1963 Jan 21	Martlet 1	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-M59	2438061.50	1963 Feb 1	Martlet 1	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S621	2438119.50	1963 Apr	Martlet 2	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S280	2438198.50	1963 Jun 18	Martlet 2	-	-	0.000	HARP	SS	-	HARP/Bull	Test	Lowther	-	-
1963-S622	2438180.50	1963 Jun	Martlet 2	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-M01	2438180.50	1963 Jun	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1963-S623	2438269.50	1963 Aug 28	Martlet 2	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S624	2438269.50	1963 Aug 28?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S430	2438277.50	1963 Sep 5	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/	Test	AIAA97-3138	-	-
1963-S625	2438277.50	1963 Sep 5?	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S626	2438277.50	1963 Sep 5?	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1963-S627	2438277.50	1963 Sep 5?	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-M01	2438398.50	1964 Jan 4	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S709	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S710	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S711	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S712	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S713	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S714	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S715	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S716	2438394.50	1964 Jan	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S717	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S718	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S719	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S720	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S721	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S722	2438394.50	1964 Jan	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S723	2438409.50	1964 Jan 15	Martlet 3A	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S724	2438569.50	1964 Jun 23	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S725	2438571.50	1964 Jun 25?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S726	2438571.50	1964 Jun 25?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S727	2438572.50	1964 Jun 26	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S728	2438582.50	1964 Jul 6	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S729	2438584.46	1964 Jul 7 2302	Martlet 2	-	42 TMA-1	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1964-S730	2438584.55	1964 Jul 8 0110	Martlet 2	-	43 TMA-2	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1964-S731	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S732	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S733	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S734	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S735	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S736	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S737	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S738	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S739	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S740	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S741	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S742	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S743	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S744	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S745	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S746	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S747	2438576.50	1964 Jul	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S748	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S749	2438599.46	1964 Jul 22 2300	Martlet 2	-	62 TMA-3	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1964-S750	2438599.50	1964 Jul 23?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S751	2438599.50	1964 Jul 23?	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S752	2438599.50	1964 Jul 23?	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S753	2438599.50	1964 Jul 23?	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S754	2438601.49	1964 Jul 24 2345	Martlet 2	-	67 TMA-4	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1964-S755	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S756	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S757	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S758	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S759	2438576.50	1964 Jul	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S760	2438601.50	1964 Jul 25	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S761	2438646.50	1964 Sep 8	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S762	2438646.50	1964 Sep 8?	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S763	2438647.50	1964 Sep 9?	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S764	2438647.50	1964 Sep 9	Martlet 3B	-	77?	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S765	2438737.50	1964 Dec 8	Martlet 2	-	84?	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S766	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S767	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S768	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S769	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S770	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S771	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S772	2438729.50	1964 Dec	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1964-S773	2438729.50	1964 Dec	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S774	2438729.50	1964 Dec	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1964-S775	2438743.50	1964 Dec 14	Martlet 3B	-	-	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1965-S705	2438842.50	1965 Mar 23	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S706	2438842.50	1965 Mar 23?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S709	2438843.50	1965 Mar 24?	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S707	2438843.56	1965 Mar 24 0124	Martlet 2	-	97 TMA-5	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S708	2438843.71	1965 Mar 24 0503	Martlet 2	-	98 TMA-6	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S710	2438843.50	1965 Mar 24?	Martlet 2	-	99	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S711	2438843.50	1965 Mar 24?	Martlet 2	-	100	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S744	2438844.50	1965 Mar 25?	Martlet 3B	-	101	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1965-S745	2438844.50	1965 Mar 25?	Martlet 3B	-	102	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1965-S712	2438846.76	1965 Mar 27 0620	Martlet 2	-	103 TMA-7	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S713	2438848.50	1965 Mar 29 0002	Martlet 2	-	104 TMA-8	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S714	2438848.60	1965 Mar 29 0220	Martlet 2	-	105 TMA-9	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S715	2438844.50	1965 Mar 25?	Martlet 2	-	106?	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S716	2438848.50	1965 Mar 29?	Martlet 3B	-	107?	0.000	HARP	SS	-	HARP/Bull	Test	AD666744	-	-
1965-S717	2438912.20	1965 May 31 1647	Martlet 2	-	108 Chaff	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S718	2438914.26	1965 Jun 2 1815	Martlet 2	-	109 Chaff	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S731	2438915.23	1965 Jun 3 1732	Martlet 3B	-	110 Grain test	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S341	2438915.37	1965 Jun 3 2054	Martlet 2C	-	111 Telem	0.000	HARP	SS	-	BRL/Berning	Ionos	WDCRF	AD649116	-
1965-S720	2438915.50	1965 Jun 3 2357	Martlet 2	-	112 TMA-10	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S721	2438915.61	1965 Jun 4 0241	Martlet 2	-	113 TMA-11	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S722	2438915.73	1965 Jun 4 0534:56	Martlet 2	-	114 TMA-12 B-12	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S723	2438915.80	1965 Jun 4 0717	Martlet 2	-	115 TMA-13	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S394	2438917.12	1965 Jun 5 1500	Martlet 2	-	116	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S719	2438917.22	1965 Jun 5 1722	Martlet 2	-	117 Chaff	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S343	2438917.35	1965 Jun 5 2020	Martlet 2	-	118	0.000	HARP	SS	-	BRL/Berning	Ionos	WDCRF	-	-
1965-S344	2438917.45	1965 Jun 5 2243	Martlet 2	-	119	0.000	HARP	SS	-	BRL/Berning	Ionos	WDCRF	-	-
1965-S732	2438919.17	1965 Jun 7 1611	Martlet 3B	-	120 Grain test	0.000	HARP	SS	-	HARP/	Test	AD649116	AD666744	-
1965-S728	2438921.45	1965 Jun 9 2251	Martlet 2	-	121 TMA	0.000	HARP	SS	-	HARP/	Ionos?	AD666744	-	-
1965-S724	2438921.58	1965 Jun 10 0157	Martlet 2	-	122 TMA-14	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S725	2438921.67	1965 Jun 10 0358	Martlet 2	-	123 TMA-15	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S726	2438921.77	1965 Jun 10 0635	Martlet 2	-	124 TMA	0.000	HARP	SS	-	HARP/	Aeron TMA	AD649116	AD666744	-
1965-S727	2438922.55	1965 Jun 11 0107	Martlet 2	-	125 TMA-16	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S729	2438923.79	1965 Jun 12 0700	Martlet 2	-	126 TMA	0.000	HARP	SS	-	HARP/	Aeron	AD666744	-	-
1965-S730	2438923.85	1965 Jun 12 0831	Martlet 2	-	127 TMA	0.000	HARP	SS	-	HARP/	Aeron	AD666744	-	-
1965-S733	2438976.50	1965 Aug 4	Martlet 2	-	128	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S734	2438978.51	1965 Aug 6 0020	Martlet 2	-	129 TMA-17	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S735	2438978.78	1965 Aug 6 0644	Martlet 2	-	130 TMA-18	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S746	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S736	2439017.50	1965 Sep 14	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S748	2439024.48	1965 Sep 20 2330:00	Martlet 2	-	133 TMA-19 B-19	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S749	2439024.54	1965 Sep 21 0052	Martlet 2	-	134 TMA-20	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S737	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S750	2439024.68	1965 Sep 21 0424	Martlet 2	-	136 TMA-21	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S751	2439024.76	1965 Sep 21 0621	Martlet 2	-	137 TMA-22	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S752	2439024.82	1965 Sep 21 0735	Martlet 2	-	138 TMA-23	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S753	2439024.88	1965 Sep 21 0900	Martlet 2	-	139 TMA-24	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S738	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S739	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S754	2439026.48	1965 Sep 22 2324	Martlet 2	-	142 TMA-25	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S740	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S755	2439026.74	1965 Sep 23 0550	Martlet 2	-	144 TMA-26	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S756	2439026.80	1965 Sep 23 0715	Martlet 2	-	145 TMA-27	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S757	2439026.84	1965 Sep 23 0807	Martlet 2	-	146 TMA-28	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S758	2439026.88	1965 Sep 23 0905	Martlet 2	-	147 TMA-29	0.000	HARP	SS	-	BRL/Murphy	Aeron	WDCRF	AD666744	-
1965-S741	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S742	2439003.50	1965 Sep	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-S747	2439028.50	1965 Sep 25	Martlet 2	-	-	0.000	HARP	SS	-	HARP/	Aeron?	AD666744	-	-
1965-A178	2439080.17	1965 Nov 15 1600	Martlet 3B	-	154	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-A179	2439080.34	1965 Nov 15 2003	Martlet 3B	-	155	0.000	HARP	SF	U	HARP/	Test	AD666744	-	-
1965-S759	2439081.22	1965 Nov 16 1718	Martlet 2	-	156	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S760	2439081.43	1965 Nov 16 2215	Martlet 2	-	157	0.000	HARP	SS	-	HARP/	Ionos	AD666744	-	-
1965-A180	2439082.27	1965 Nov 17 1831	Martlet 3B	-	158	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S761	2439082.34	1965 Nov 17 2016	Martlet 2	-	159	0.000	HARP	SS	-	HARP/	Aeron	AD666744	-	-
1965-S763	2439082.43	1965 Nov 17 2215:00	Martlet 2	-	160 B-31	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S764	2439082.48	1965 Nov 17 2334:00	Martlet 2	-	161 B-32	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-M34	2439082.53	1965 Nov 18 0038	Martlet 2	-	162	0.000	HARP	SF	U	HARP/	Aeron TMA	AD666744	-	-
1965-S765	2439082.64	1965 Nov 18 0315:00	Martlet 2	-	163 B-33	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S766	2439082.70	1965 Nov 18 0445	Martlet 2	-	164	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-A181	2439082.75	1965 Nov 18 0558	Martlet 2	-	165	0.000	HARP	SF	U	HARP/	Aeron TMA	AD666744	-	-
1965-S767	2439082.81	1965 Nov 18 0730	Martlet 2	-	166	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-S768	2439082.88	1965 Nov 18 0908	Martlet 2	-	167	0.000	HARP	SS	-	HARP/	Aeron TMA	AD666744	-	-
1965-M35	2439084.23	1965 Nov 19 1730	Martlet 2	-	168	0.000	HARP	SS	-	HARP/	Aeron Chaff	AD666744	-	-
1965-S769	2439085.17	1965 Nov 20 1600	Martlet 2	-	170	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-M36	2439085.37	1965 Nov 20 2047	Martlet 2	-	171	0.000	HARP	SF	U	HARP/	Aeron Chaff	AD666744	-	-
1965-S770	2439086.17	1965 Nov 21 1610	Martlet 2	-	172	0.000	HARP	SS	-	HARP/	Test	AD666744	-	-
1965-S640	2439087.46	1965 Nov 22 2309	Martlet 2	-	173	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	WDCRF	-
1965-S771	2439087.48	1965 Nov 22 2330	Martlet 2	-	174	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	-	-
1965-A182	2439087.54	1965 Nov 23 0055	Martlet 2	-	175	0.000	BRL	SF	U	BRL/Murphy	Aeron TMA	AD666744	-	-
1965-S642	2439087.62	1965 Nov 23 0259	Martlet 2	-	176	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	WDCRF	-
1965-S643	2439087.73	1965 Nov 23 0531	Martlet 2	-	177	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	WDCRF	-
1965-S644	2439087.81	1965 Nov 23 0728	Martlet 2	-	178	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	WDCRF	-
1965-S645	2439087.89	1965 Nov 23 0916	Martlet 2	-	179	0.000	BRL	SS	-	BRL/Murphy	Aeron TMA	AD666744	WDCRF	-
1966-M05	2439159.23	1966 Feb 2 1735	Martlet 2	-	-	0.000	BRL	SS	-	BRL/	Aeron	MRN54	-	-
1966-A27	2439164.17	1966 Feb 7 1600	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-A37	2439168.17	1966 Feb 11 1600	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M09	2439173.21	1966 Feb 16 1700	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-S706	2439174.54	1966 Feb 18 0103:00	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-M10	2439177.41	1966 Feb 20 2153	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M11	2439180.44	1966 Feb 23 2238	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M12	2439180.64	1966 Feb 24 0323	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M13	2439180.76	1966 Feb 24 0616	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-S707	2439180.89	1966 Feb 24 0923:30	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	LaunchOrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-M14	2439181.17	1966 Feb 24 1600	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-M15	2439182.17	1966 Feb 25 1600	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	MRN54	-	-
1966-S713	2439290.64	1966 Jun 14 0325	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S714	2439290.72	1966 Jun 14 0515	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S715	2439291.70	1966 Jun 15 0446	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S716	2439291.76	1966 Jun 15 0617	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S717	2439291.85	1966 Jun 15 0827	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S718	2439291.92	1966 Jun 15 1005	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S708	2439388.54	1966 Sep 20 0055:09	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S709	2439388.60	1966 Sep 20 0224:06	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S710	2439388.67	1966 Sep 20 0410:00	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S711	2439388.77	1966 Sep 20 0624:00	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S712	2439388.84	1966 Sep 20 0803:00	Martlet 2	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-CON169	-	-
1966-S719	2439424.71	1966 Oct 26 0459	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S720	2439425.66	1966 Oct 27 0355	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S721	2439425.79	1966 Oct 27 0656	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S722	2439426.45	1966 Oct 27 2247	Gun Projectile 16-inch	-	Lahive 15-deg Cone	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S723	2439426.62	1966 Oct 28 0252	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S724	2439426.70	1966 Oct 28 0446	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S725	2439426.76	1966 Oct 28 0620	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S627	2439446.57	1966 Nov 17 0141:24	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S628	2439446.65	1966 Nov 17 0341:52	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S629	2439446.73	1966 Nov 17 0532:07	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S630	2439446.80	1966 Nov 17 0716:13	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S631	2439446.93	1966 Nov 17 1016	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S635	2439448.55	1966 Nov 19 0118:47	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S636	2439448.63	1966 Nov 19 0312:21	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S637	2439448.70	1966 Nov 19 0449:42	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S638	2439448.78	1966 Nov 19 0643:09	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S639	2439448.83	1966 Nov 19 0801:22	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S640	2439448.90	1966 Nov 19 0935:35	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S641	2439449.00	1966 Nov 19 1152:53	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	BRL-MR1825	-
1966-S726	2439449.05	1966 Nov 19 1308	Martlet 2C	-	-	0.000	HARP	SS	-	SRCI/Bull	Aeron	BRL-MR1825	-	-
1966-S643	2439449.61	1966 Nov 20 0245:00	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S644	2439449.68	1966 Nov 20 0421:29	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S645	2439449.73	1966 Nov 20 0537:53	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1966-S646	2439449.79	1966 Nov 20 0659:14	Martlet 2C	-	-	0.000	BRL	SS	-	SRCI/Bull	Aeron	AFWL-TR-68-132	-	-
1967-S607	2439537.55	1967 Feb 16 0117:00	Martlet 2	-	-	0.000	BRL	SS	-	SRCI/Bull	Meteo	BRL-CON169	-	-
1967-S611	2439537.66	1967 Feb 16 0356:00	Martlet 2	-	-	0.000	BRL	SS	-	SRCI/Bull	Meteo	BRL-CON169	-	-
1967-S612	2439538.61	1967 Feb 17 0245:00	Martlet 2	-	-	0.000	BRL	SS	-	SRCI/Bull	Meteo	BRL-CON169	-	-
1967-S613	2439538.85	1967 Feb 17 0817:00	Martlet 2	-	-	0.000	BRL	SS	-	SRCI/Bull	Meteo	BRL-CON169	-	-
1967-S608	2439654.63	1967 Jun 13 0314:04	Martlet 2	-	-	0.000	BRL	SS	-	BRL/	Meteo	BRL-CON169	-	-
1967-S609	2439663.62	1967 Jun 22 0247:00	Martlet 2	-	-	0.000	BRL	SS	-	BRL/	Meteo	BRL-CON169	-	-
1967-S610	2439664.49	1967 Jun 22 2351:00	Martlet 2	-	-	0.000	BRL	SS	-	BRL/	Meteo	BRL-CON169	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1996-S07	2450125.46	1996 Feb 11 2300	J-1	-	J-1-1F	Hyflex	-	-	-	TNSC	N	-	-	110	-	-
2013-049	2456549.71	2013 Sep 14 0500:00	Epsilon	-	E-1	SPRINT-A	-	-	-	USC	EP	-	-	1156	-	-
2016-080	2457742.96	2016 Dec 20 1100:00	Epsilon	2	E-2	ERG	-	-	-	USC	EP	-	-	32424	-	-
2018-007	2458136.38	2018 Jan 17 2106:11	Epsilon	2PBS	E-3	ASNARO 2	-	-	-	USC	EP	-	-	644	-	-
2019-003	2458501.53	2019 Jan 18 0050:20	Epsilon	2PBS	E-4	RAPIS	-	-	-	USC	EP	-	-	736	-	-
2021-102	2459527.54	2021 Nov 9 0055:16	Epsilon	2PBS	E-5	RAISE-2	-	-	-	USC	EP	-	-	579	-	-
2022-F04	2459864.54	2022 Oct 12 0050:43	Epsilon	2PBS	E-6	RAISE-3	-	-	-	USC	EP	-	-	237	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1996-S07	2450125.46	1996 Feb 11 2300	J-1	-	J-1-1F	0.000	NASDA	TS	-	-	SC Test	Wire	AWST960219-27	-
2013-049	2456549.71	2013 Sep 14 0500:00	Epsilon	-	E-1	0.340	JAXA	OS	-	G	Sat LEO OO	Wire	-	-
2016-080	2457742.96	2016 Dec 20 1100:00	Epsilon	2	E-2	0.350	JAXA	OS	-	G	Sat GTO O	Wire	-	-
2018-007	2458136.38	2018 Jan 17 2106:11	Epsilon	2PBS	E-3	0.570	JAXA	OS	-	G	Sat SSO OO	Wire	-	-
2019-003	2458501.53	2019 Jan 18 0050:20	Epsilon	2PBS	E-4	0.386	JAXA	OS	-	G	Sat SSO OO	Wire	-	-
2021-102	2459527.54	2021 Nov 9 0055:16	Epsilon	2PBS	E-5	0.553	JAXA	OS	-	G	Sat SSO OO	Wire	-	-
2022-F04	2459864.54	2022 Oct 12 0050:43	Epsilon	2PBS	E-6	0.692	JAXA	OF	S2G	G	Sat SSO OO	Wire	-	RCS failed in S2 coast

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1994-007	2449387.43	1994 Feb 3 2220	H-II	-	H-II-1F	OREX	OREX	-	-	TNSC	Y	-	-	36167	-	-
1994-056	2449592.83	1994 Aug 28 0750	H-II	-	H-II-2F	ETS-6/LAPS	ETS-6	-	-	TNSC	Y	-	-	38925	-	-
1995-011	2449794.83	1995 Mar 18 0801	H-II	(2S)	H-II-3F	SFU/GMS-5	SFU	-	-	TNSC	Y	-	-	40191	-	-
1996-046	2450312.58	1996 Aug 17 0153	H-II	-	H-II-4F	ADEOS	ADEOS	-	-	TNSC	Y	-	-	1325	-	-
1997-074	2450780.39	1997 Nov 27 2127	H-II	-	H-II-6F	TRMM/ETS-7	TRMM	-	-	TNSC	Y	-	-	548	-	-
1998-011	2450865.83	1998 Feb 21 0755	H-II	-	H-II-5F	COMETS	COMETS	-	-	TNSC	Y	-	-	17738	-	-
1999-F04	2451497.81	1999 Nov 15 0729	H-II	-	H-II-8F	MTSAT	MTSAT	-	-	TNSC	Y	-	-	100?	-	-
2001-038	2452150.79	2001 Aug 29 0700:00	H-IIA 202	-	H-IIA-1F	VEP-2/LRE	LRE	-	-	TNSC	Y	-	-	36220	-	-
2002-003	2452309.61	2002 Feb 4 0245	H-IIA 2024	-	H-IIA-2F	VEP-3/MDS-1/DASH	MDS-1	-	-	TNSC	Y	-	-	35779	-	-
2002-042	2452527.85	2002 Sep 10 0820	H-IIA 2024	-	H-IIA-3F	USERS/DRTS	USERS SEM	-	-	TNSC	Y	-	-	36169	-	-
2002-056	2452622.56	2002 Dec 14 0131	H-IIA 202	-	H-IIA-4F	ADEOS-2	ADEOS-2	-	-	TNSC	Y	-	-	847	-	-
2003-009	2452726.56	2003 Mar 28 0127	H-IIA 2024	-	H-IIA-5F	IGS O-1/IGS R-1	IGS Optical-1	-	-	TNSC	Y	-	-	557	-	-
2003-F02	2452972.69	2003 Nov 29 0433	H-IIA 2024	-	H-IIA-6F	IGS O-2a/IGS R-2a	IGS Optical-2	-	-	TNSC	Y	-	-	422	-	-
2005-006	2453427.89	2005 Feb 26 0925	H-IIA 2022	-	H-IIA-7F	MTSAT-1R	MTSAT-1R	-	-	TNSC	Y	-	-	36263	-	-
2006-002	2453759.56	2006 Jan 24 0133	H-IIA 2022	-	H-IIA-8F	ALOS	ALOS	-	-	TNSC	Y	-	-	740	-	-
2006-004	2453784.77	2006 Feb 18 0627	H-IIA 2024	-	H-IIA-9F	MTSAT-2	MTSAT-2	-	-	TNSC	Y	-	-	36155	-	-
2006-037	2453989.69	2006 Sep 11 0435	H-IIA 202	-	H-IIA-10	IGS O-2	IGS Optical-2	-	-	TNSC	Y	-	-	494	-	-
2006-059	2454087.77	2006 Dec 18 0632	H-IIA 204	-	H-IIA-11	ETS-8	ETS-8	-	-	TNSC	Y	-	-	36209	-	-
2007-005	2454155.70	2007 Feb 24 0441	H-IIA 2024	-	H-IIA-12	IGS R-2/O-3V	IGS Radar-2	-	-	TNSC	Y	-	-	505	-	-
2007-039	2454357.56	2007 Sep 14 0131:01	H-IIA 2022	-	H-IIA-13	SELENE	SELENE	-	-	TNSC	Y	-	-	150000	-	-
2008-007	2454519.87	2008 Feb 23 0855:00	H-IIA 2024	1	H-IIA-14	WINDS	WINDS	-	-	TNSC	Y	-	-	36909	-	-
2009-002	2454854.66	2009 Jan 23 0354	H-IIA 202	1	H-IIA-15	GOSAT	GOSAT	-	-	TNSC	Y	-	-	675	-	-
2009-066	2455163.56	2009 Nov 28 0121	H-IIA 202	-	H-IIA-16	IGS O-3	IGS Optical-3	-	-	TNSC	Y	-	-	597	-	-
2010-020	2455337.42	2010 May 20 2158:22	H-IIA 202	1	H-IIA-17	PLANET-C	K-SAT	-	-	TNSC	Y	-	-	150000	-	-
2010-045	2455450.97	2010 Sep 11 1117:00	H-IIA 202	1	H-IIA-18	QZSS	QZSS	-	-	TNSC	Y	-	-	39272	-	-
2011-050	2455827.69	2011 Sep 23 0436:50	H-IIA 202	-	H-IIA-19	IGS O-4	IGS Optical-4	-	-	TNSC	Y	-	-	597	-	-
2011-075	2455907.56	2011 Dec 12 0121	H-IIA 202	-	H-IIA-20	IGS R-3	IGS Radar-3	-	-	TNSC	Y	-	-	520	-	-
2012-025	2456065.19	2012 May 17 1639	H-IIA 202	1	H-IIA-21	GCOM-W1/KOMPSAT-3	GCOM-W1	-	-	TNSC	Y	-	-	707	-	-
2013-002	2456319.69	2013 Jan 27 0440	H-IIA 202	1	H-IIA-22	IGS R-4/Demo	IGS Radar-4	-	-	TNSC	Y	-	-	586	-	-
2014-009	2456716.28	2014 Feb 27 1837	H-IIA 202	1	H-IIA-23	GPM-C	GPM-C	-	-	TNSC	Y	-	-	1692	-	-
2014-029	2456801.63	2014 May 24 0305:14	H-IIA 202	1	H-IIA-24	ALOS-2	ALOS-2	-	-	TNSC	Y	-	-	638	-	-
2014-060	2456937.72	2014 Oct 7 0516:00	H-IIA 202	1	H-IIA-25	Himawari 8	Himawari 8	-	-	TNSC	Y	-	-	35883	-	-
2014-076	2456994.68	2014 Dec 3 0422:04	H-IIA 202	1	H-IIA-26	Hayabusa-2	Hayabusa-2	-	-	TNSC	Y	-	-	150000	-	-
2015-004	2457054.56	2015 Feb 1 0121	H-IIA 202	1	H-IIA-27	IGS R-Spare	IGS Radar-Spare	-	-	TNSC	Y	-	-	499	-	-
2015-015	2457107.56	2015 Mar 26 0121	H-IIA 202	1	H-IIA-28	IGS O-5	IGS Optical-5	-	-	TNSC	Y	-	-	527	-	-
2015-068	2457350.78	2015 Nov 24 0650:00	H-IIA 204	2	H-IIA-29	Telstar 12V	Telstar 12V	-	-	TNSC	Y	-	-	35818	-	-
2016-012	2457435.86	2016 Feb 17 0845	H-IIA 202	1	H-IIA-30	Hitomi	ASTRO-H	-	-	TNSC	Y	-	-	587	-	-
2016-064	2457694.76	2016 Nov 2 0620	H-IIA 202	1	H-IIA-31	Himawari 9	Himawari 9	-	-	TNSC	Y	-	-	35857	-	-
2017-005	2457777.82	2017 Jan 24 0744:00	H-IIA 204	2	H-IIA-32	DSN 2	DSN 2	-	-	TNSC	Y	-	-	35827	-	-
2017-015	2457829.56	2017 Mar 17 0120	H-IIA 202	1	H-IIA-33	IGS R-5	IGS R-5	-	-	TNSC	Y	-	-	499	-	-
2017-028	2457905.51	2017 Jun 1 0017:36	H-IIA 202	1	H-IIA-34	Michibiki 2	QZSS 2	-	-	TNSC	Y	-	-	39067	-	-
2017-048	2457984.73	2017 Aug 19 0529	H-IIA 204	2	H-IIA-35	Michibiki 3	QZSS 3	-	-	TNSC	Y	-	-	35890	-	-
2017-062	2458036.42	2017 Oct 9 2201:37	H-IIA 202	1	H-IIA-36	Michibiki 4	QZSS 4	-	-	TNSC	Y	-	-	39029	-	-
2017-082	2458110.56	2017 Dec 23 0126:22	H-IIA 202	1	H-IIA-37	Shikisai/Tsubame	GCOM-C/SLATGS	-	-	TNSC	Y	-	-	802	-	-
2018-021	2458176.69	2018 Feb 27 0434	H-IIA 202	1	H-IIA-38	IGS O-6	IGS O-6	-	-	TNSC	Y	-	-	505	-	-
2018-052	2458281.68	2018 Jun 12 0420:00	H-IIA 202	1	H-IIA-39	IGS R-6	IGS R-6	-	-	TNSC	Y	-	-	510	-	-
2018-084	2458420.67	2018 Oct 29 0408	H-IIA 202	1	H-IIA-40	GOSAT-2/Khalifasat	GOSAT-2/Khalifasat	-	-	TNSC	Y	-	-	622	-	-
2020-009	2458888.57	2020 Feb 9 0134	H-IIA 202	1	H-IIA-41	IGS O-7	IGS O-7	-	-	TNSC	Y	-	-	515	-	-
2020-047	2459050.42	2020 Jul 19 2158:14	H-IIA 202	1	H-IIA-42	Al'amal	Hope Probe	-	-	TNSC	Y	-	-	150000	-	-
2020-089	2459182.81	2020 Nov 29 0725	H-IIA 202	1	H-IIA-43	DRS-1/ODRS	Deta Chukei Eisei 1	-	-	TNSC	Y	-	-	35805	-	-
2021-096	2459513.60	2021 Oct 26 0219:37	H-IIA 202	1	H-IIA-44	QZS-1R	QZSS 1R	-	-	TNSC	Y	-	-	39026	-	-
2021-128	2459571.15	2021 Dec 22 1532	H-IIA 204	2	H-IIA-45	Inmarsat 6F1	Inmarsat 6F1	-	-	TNSC	Y	-	-	70539	-	-
2023-012	2459970.58	2023 Jan 26 0150:21	H-IIA 202	1	H-IIA-46	IGS R-7	IGS R-7	-	-	TNSC	Y	-	-	-	-	-
2023-137	2460194.49	2023 Sep 6 2342:11	H-IIA 202	1	H-IIA-47	XRISM/SLIM	XRISM/SLIM	-	-	TNSC	Y	-	-	-	-	-
2024-010	2460321.70	2024 Jan 12 0444:26	H-IIA 202	1	H-IIA-48	IGS O-8	IGS O-8	-	-	TNSC	Y	-	-	-	-	-
2024-176	2460579.73	2024 Sep 26 0524	H-IIA 202	1	H-IIA-49	IGS O-9	IGS O-9	-	-	TNSC	Y	-	-	-	-	-
2025-141	2460855.19	2025 Jun 28 1633:04	H-IIA 202	1	H-IIA-50	GOSAT-GW	GOSAT-GW	-	-	TNSC	Y	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1994-007	2449387.43	1994 Feb 3 2220	H-II	-	H-II-1F	3.265	NASDA	OS	-	G	Sat GTO OO	AWST940207-17	-	-
1994-056	2449592.83	1994 Aug 28 0750	H-II	-	H-II-2F	3.800	NASDA	OS	-	G	Sat GTO OO	AWST940905-47	-	-
1995-011	2449794.83	1995 Mar 18 0801	H-II	(2S)	H-II-3F	4.243	NASDA	OS	-	G	Sat GTO O	NK9506-46	-	-
1996-046	2450312.58	1996 Aug 17 0153	H-II	-	H-II-4F	3.250	NASDA	OS	-	G	Sat SSO O	WWW-NASDA	WWW-NASDA	-
1997-074	2450780.39	1997 Nov 27 2127	H-II	-	H-II-6F	7.100	NASDA	OS	-	G	Sat LEO O 1	WWW-NASDA	WWW-NASDA	-
1998-011	2450865.83	1998 Feb 21 0755	H-II	-	H-II-5F	3.960	NASDA	OF40	S2P2	G	Sat GTO O	WWW-NASDA	WWW-NASDA	Nozzle failure
1999-F04	2451497.81	1999 Nov 15 0729	H-II	-	H-II-8F	2.900	NASDA	OF	S1P	G	Sat GTO O	WWW-NASDA	WWW-NASDA	Turbopump blade f.
2001-038	2452150.79	2001 Aug 29 0700:00	H-IIA 202	-	H-IIA-1F	0.086	NASDA	OS	-	G	Sat GTO O	NASDARept112	WWW-NASDA	-
2002-003	2452309.61	2002 Feb 4 0245	H-IIA 2024	-	H-IIA-2F	1.265	NASDA	OS	-	G	Sat GTO O 3	Wire	-	-
2002-042	2452527.85	2002 Sep 10 0820	H-IIA 2024	-	H-IIA-3F	5.026	NASDA	OS	-	G	Sat GTO O 3	Wire	-	-
2002-056	2452622.56	2002 Dec 14 0131	H-IIA 202	-	H-IIA-4F	3.842	NASDA	OS	-	G	Sat SSO O	Wire	-	-
2003-009	2452726.56	2003 Mar 28 0127	H-IIA 2024	-	H-IIA-5F	3.500	NASDA	OS	-	G	Sat SSO O 3	Wire	-	-
2003-F02	2452972.69	2003 Nov 29 0433	H-IIA 2024	-	H-IIA-6F	3.000	NASDA	OF	SOS	G	Sat SSO O 3	Wire	-	Right SRB ft sep
2005-006	2453427.89	2005 Feb 26 0925	H-IIA 2022	-	H-IIA-7F	2.900	RSC	OS	-	CG	Sat GTO O	rocketsystem.co.jp	-	-
2006-002	2453759.56	2006 Jan 24 0133	H-IIA 2022	-	H-IIA-8F	4.000	RSC	OS	-	CG	Sat SSO O	Wire	-	-
2006-004	2453784.77	2006 Feb 18 0627	H-IIA 2024	-	H-IIA-9F	4.650	RSC	OS	-	CG	Sat GTO O	Wire	-	-
2006-037	2453989.69	2006 Sep 11 0435	H-IIA 202	-	H-IIA-10	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2006-059	2454087.77	2006 Dec 18 0632	H-IIA 204	-	H-IIA-11	5.800	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2007-005	2454155.70	2007 Feb 24 0441	H-IIA 2024	-	H-IIA-12	3.700	MHI	OS	-	CG	Sat SSO O 3	Wire	-	-
2007-039	2454357.56	2007 Sep 14 0131:01	H-IIA 2022	-	H-IIA-13	2.983	MHI	DS	-	CG	Sat DSO O	Wire	-	-
2008-007	2454519.87	2008 Feb 23 0855:00	H-IIA 2024	1	H-IIA-14	4.850	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2009-002	2454854.66	2009 Jan 23 0354	H-IIA 202	1	H-IIA-15	1.958	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2009-066	2455163.56	2009 Nov 28 0121	H-IIA 202	-	H-IIA-16	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2010-020	2455337.42	2010 May 20 2158:22	H-IIA 202	1	H-IIA-17	1.023	MHI	DS	-	CG	Sat EEO E	Wire	-	-
2010-045	2455450.97	2010 Sep 11 1117:00	H-IIA 202	1	H-IIA-18	4.020	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2011-050	2455827.69	2011 Sep 23 0436:50	H-IIA 202	-	H-IIA-19	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2011-075	2455907.56	2011 Dec 12 0121	H-IIA 202	-	H-IIA-20	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2012-025	2456065.19	2012 May 17 1639	H-IIA 202	1	H-IIA-21	3.348	MHI	OS	-	CG	Sat SSO O 3	Wire	-	-
2013-002	2456319.69	2013 Jan 27 0440	H-IIA 202	1	H-IIA-22	3.700	MHI	OS	-	CG	Sat SSO O 3	Wire	-	-
2014-009	2456716.28	2014 Feb 27 1837	H-IIA 202	1	H-IIA-23	3.931	MHI	OS	-	CG	Sat LEO O	Wire	-	-
2014-029	2456801.63	2014 May 24 0305:14	H-IIA 202	1	H-IIA-24	2.270	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2014-060	2456937.72	2014 Oct 7 0516:00	H-IIA 202	1	H-IIA-25	3.500	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2014-076	2456994.68	2014 Dec 3 0422:04	H-IIA 202	1	H-IIA-26	0.715	MHI	DS	-	CG	Sat EEO E	Wire	-	-
2015-004	2457054.56	2015 Feb 1 0121	H-IIA 202	1	H-IIA-27	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2015-015	2457107.56	2015 Mar 26 0121	H-IIA 202	1	H-IIA-28	1.500	MHI	OS	-	CG	Sat SSO O 1	Wire	-	-
2015-068	2457350.78	2015 Nov 24 0650:00	H-IIA 204	2	H-IIA-29	4.900	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2016-012	2457435.86	2016 Feb 17 0845	H-IIA 202	1	H-IIA-30	2.812	MHI	OS	-	CG	Sat LEO O	Wire	-	-
2016-064	2457694.76	2016 Nov 2 0620	H-IIA 202	1	H-IIA-31	3.500	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2017-005	2457777.82	2017 Jan 24 0744:00	H-IIA 204	2	H-IIA-32	5.000	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2017-015	2457829.56	2017 Mar 17 0120	H-IIA 202	1	H-IIA-33	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2017-028	2457905.51	2017 Jun 1 0017:36	H-IIA 202	1	H-IIA-34	4.020	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2017-048	2457984.73	2017 Aug 19 0529	H-IIA 204	2	H-IIA-35	4.700	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2017-062	2458036.42	2017 Oct 9 2201:37	H-IIA 202	1	H-IIA-36	4.020	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2017-082	2458110.56	2017 Dec 23 0126:22	H-IIA 202	1	H-IIA-37	2.543	MHI	OS	-	CG	Sat SSO O 2	Wire	-	-
2018-021	2458176.69	2018 Feb 27 0434	H-IIA 202	1	H-IIA-38	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2018-052	2458281.68	2018 Jun 12 0420:00	H-IIA 202	1	H-IIA-39	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2018-084	2458420.67	2018 Oct 29 0408	H-IIA 202	1	H-IIA-40	2.661	MHI	OS	-	CG	Sat SSO O 3	Wire	-	-
2020-009	2458888.57	2020 Feb 9 0134	H-IIA 202	1	H-IIA-41	1.500	MHI	OS	-	CG	Sat SSO O	Wire	-	-
2020-047	2459050.42	2020 Jul 19 2158:14	H-IIA 202	1	H-IIA-42	1.350	MHI	DS	-	CO/OG	Sat EEO E	Wire	-	-
2020-089	2459182.81	2020 Nov 29 0725	H-IIA 202	1	H-IIA-43	3.800	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2021-096	2459513.60	2021 Oct 26 0219:37	H-IIA 202	1	H-IIA-44	4.020	MHI	OS	-	CG	Sat GTO O	Wire	-	-
2021-128	2459571.15	2021 Dec 22 1532	H-IIA 204	2	H-IIA-45	5.470	MHI	OS	-	CO	Sat STO O	Wire	-	-
2023-012	2459970.58	2023 Jan 26 0150:21	H-IIA 202	1	H-IIA-46	1.500	MHI	OS	-	CG	Sat SSO O	www.mhi.com	-	-
2023-137	2460194.49	2023 Sep 6 2342:11	H-IIA 202	1	H-IIA-47	4.102	MHI	OS	-	CG	Sat LEO O	www.mhi.com	-	-
2024-010	2460321.70	2024 Jan 12 0444:26	H-IIA 202	1	H-IIA-48	1.500	MHI	OS	-	CG	Sat SSO O	www.mhi.com	-	-
2024-176	2460579.73	2024 Sep 26 0524	H-IIA 202	1	H-IIA-49	1.500	MHI	OS	-	CG	Sat SSO O	www.mhi.com	-	-
2025-141	2460855.19	2025 Jun 28 1633:04	H-IIA 202	1	H-IIA-50	2.900	MHI	OS	-	CG	Sat SSO O	www.mhi.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-048	2455085.21	2009 Sep 10 1701:46	H-IIB	-	H-IIB-TF1	HTV-1	HTV 1 Gijutso jissho-ki	-	-	TNSC	Y2	-	-	353	-	-
2011-003	2455583.73	2011 Jan 22 0537:57	H-IIB	-	H-IIB-F2	HTV-2	HTV 2	-	-	TNSC	Y2	-	-	357	-	-
2012-038	2456129.59	2012 Jul 21 0206:18	H-IIB	-	H-IIB-F3	HTV-3	HTV 3	-	-	TNSC	Y2	-	-	430	-	-
2013-040	2456508.33	2013 Aug 3 1948:46	H-IIB	-	H-IIB-F4	HTV-4	HTV 4	-	-	TNSC	Y2	-	-	425	-	-
2015-038	2457253.99	2015 Aug 19 1150:49	H-IIB	-	H-IIB-F5	HTV-5	HTV 5	-	-	TNSC	Y2	-	-	415	-	-
2016-076	2457732.06	2016 Dec 9 1326:47	H-IIB	-	H-IIB-F6	HTV-6	HTV 6	-	-	TNSC	Y2	-	-	411	-	-
2018-073	2458384.24	2018 Sep 22 1752:27	H-IIB	-	H-IIB-F7	HTV-7	HTV 7	-	-	TNSC	Y2	-	-	408	-	-
2019-062	2458751.17	2019 Sep 24 1605:05	H-IIB	-	H-IIB-F8	HTV-8	HTV 8	-	-	TNSC	Y2	-	-	422	-	-
2020-030	2458990.23	2020 May 20 1731:00	H-IIB	-	H-IIB-F9	HTV-9	HTV 9	-	-	TNSC	Y2	-	-	422	-	-
2023-F03	2460010.57	2023 Mar 7 0137:55	H3-22S	-	H3-TF1	Daichi 3	ALOS 3	-	-	TNSC	Y2	-	-	632	-	-
2024-032	2460357.52	2024 Feb 17 0022:55	H3-22S	-	H3-TF2	VEP-4	VEP-4	-	-	TNSC	Y2	-	-	-	-	-
2024-123	2460492.63	2024 Jul 1 0306:00	H3-22S	-	H3-F3	Daichi 4	ALOS 4	-	-	TNSC	Y2	-	-	-	-	-
2024-198	2460618.78	2024 Nov 4 0648	H3-22S	-	H3-F4	Kirameki 3	DSN 3	-	-	TNSC	Y2	-	-	-	-	-
2025-023	2460708.85	2025 Feb 2 0830:00	H3-22S	-	H3-F5	Michibiki 6	QZS 6	-	-	TNSC	Y2	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-048	2455085.21	2009 Sep 10 1701:46	H-IIB	-	H-IIB-TF1	21.000	JAXA	OS	-	G	Sat ISS O	Wire	-	-
2011-003	2455583.73	2011 Jan 22 0537:57	H-IIB	-	H-IIB-F2	20.900	JAXA	OS	-	G	Sat ISS D	Wire	-	-
2012-038	2456129.59	2012 Jul 21 0206:18	H-IIB	-	H-IIB-F3	20.637	JAXA	OS	-	G	Sat ISS D	Wire	-	-
2013-040	2456508.33	2013 Aug 3 1948:46	H-IIB	-	H-IIB-F4	19.544	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2015-038	2457253.99	2015 Aug 19 1150:49	H-IIB	-	H-IIB-F5	21.497	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2016-076	2457732.06	2016 Dec 9 1326:47	H-IIB	-	H-IIB-F6	19.953	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2018-073	2458384.24	2018 Sep 22 1752:27	H-IIB	-	H-IIB-F7	19.808	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2019-062	2458751.17	2019 Sep 24 1605:05	H-IIB	-	H-IIB-F8	19.807	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2020-030	2458990.23	2020 May 20 1731:00	H-IIB	-	H-IIB-F9	18.905	MHI	OS	-	CG	Sat ISS D	Wire	-	-
2023-F03	2460010.57	2023 Mar 7 0137:55	H3-22S	-	H3-TF1	2.900	JAXA	OF	S2I	G	Sat LEO D	Wire	-	Stage 2 ft ignite
2024-032	2460357.52	2024 Feb 17 0022:55	H3-22S	-	H3-TF2	2.975	JAXA	OS	-	G	Sat LEO D	Wire	-	-
2024-123	2460492.63	2024 Jul 1 0306:00	H3-22S	-	H3-F3	2.990	JAXA	OS	-	G	Sat LEO D	Wire	-	-
2024-198	2460618.78	2024 Nov 4 0648	H3-22S	-	H3-F4	5.000	JAXA	OS	-	G	Sat LEO D	Wire	-	-
2025-023	2460708.85	2025 Feb 2 0830:00	H3-22S	-	H3-F5	4.000	JAXA	OS	-	G	Sat LEO D	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-M07	2450580.02	1997 May 11 1225	HALO	-	SL-1	Rockoon	-	-	BLN-HAL5	HAMNC	-	-	-	67?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-M07	2450580.02	1997 May 11 1225	HALO	-	SL-1	0.000	HAL5	SS	-	HAL5/Allison	Test	chapters.nss.org/al	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-A07	2460023.24	2023 Mar 19 1752	HANBIT-TLV	-	1	Test	-	-	-	ALCA	HAN	-	-	36?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-A07	2460023.24	2023 Mar 19 1752	HANBIT-TLV	-	1	0.000	INNOSP	SS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-A34	2438817.16	1965 Feb 25 1544	HIBEX	-	1	HIBEX A-1	-	-	-	WS	-	-	-	88	96	-
1965-A63	2438881.50	1965 May 1	HIBEX	-	2	HIBEX B-1	-	-	-	WS	-	-	-	20?	-	-
1965-A91	2438955.50	1965 Jul 14	HIBEX	-	3	HIBEX B-2	-	-	-	WS	-	-	-	1?	1?	-
1965-A128	2439025.50	1965 Sep 22	HIBEX	-	4	HIBEX D-1	-	-	-	WS	-	-	-	20?	-	-
1965-A148	2439061.50	1965 Oct 28	HIBEX	-	5	HIBEX D-2	-	-	-	WS	LC50	-	-	1?	-	-
1965-A168	2439096.50	1965 Dec 2	HIBEX	-	6	HIBEX D-3	-	-	-	WS	LC50	-	-	20?	-	-
1966-A16	2439130.50	1966 Jan 5	HIBEX	-	7	HIBEX D-4	10	-	-	WS	-	-	-	20?	-	-
1971-A91	2441272.50	1971 Nov 17	Upstage	-	-	External burning	-	-	-	WS	LC37	-	-	5?	-	-
1972-A19	2441398.50	1972 Mar 22	Upstage	-	-	-	-	-	-	WS	LC37	-	-	5?	-	-
1972-A41	2441437.50	1972 May	Upstage	-	-	-	-	-	-	WS	LC37	-	-	5?	-	-
1972-A83	2441529.50	1972 Aug	Upstage	-	-	Jet Interaction	-	-	-	WS	LC37	-	-	5?	-	-
1972-A84	2441529.50	1972 Aug	Upstage	-	-	-	-	-	-	WS	LC37	-	-	5?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-A34	2438817.16	1965 Feb 25 1544	HIBEX	-	1	0.000	ARPA/NIKEX	MS	-	-	Test	DKS-Boeing	MR650308-11	www.wsmr.army.mil
1965-A63	2438881.50	1965 May 1	HIBEX	-	2	0.000	ARPA/NIKEX	MS	-	-	Test	MR650517-13	-	-
1965-A91	2438955.50	1965 Jul 14	HIBEX	-	3	0.000	ARPA/NIKEX	MF	U	-	Test	DKS-Boeing	WSMR	-
1965-A128	2439025.50	1965 Sep 22	HIBEX	-	4	0.000	ARPA/NIKEX	MS	-	-	Test	WSMR	-	-
1965-A148	2439061.50	1965 Oct 28	HIBEX	-	5	0.000	ARPA/NIKEX	MS	-	-	Test	MR61108-09	-	-
1965-A168	2439096.50	1965 Dec 2	HIBEX	-	6	0.000	ARPA/NIKEX	MF	U	-	Test	Ulrich	WSMR	-
1966-A16	2439130.50	1966 Jan 5	HIBEX	-	7	0.000	ARPA/NIKEX	MS	-	-	Test	Ulrich/MR660124-9	SP-4007	-
1971-A91	2441272.50	1971 Nov 17	Upstage	-	-	0.000	ARPA/SAFSC	MS	-	-	Test	AWST711206-23	WSMR	-
1972-A19	2441398.50	1972 Mar 22	Upstage	-	-	0.000	ARPA/SAFSC	MS	-	-	Test	WSMR	-	Mar 22 or later
1972-A41	2441437.50	1972 May	Upstage	-	-	0.000	ARPA/SAFSC	MS	-	-	Test	WSMR	-	-
1972-A83	2441529.50	1972 Aug	Upstage	-	-	0.000	ARPA/SAFSC	MS	-	-	Test	WSMR	-	-
1972-A84	2441529.50	1972 Aug	Upstage	-	-	0.000	ARPA/SAFSC	MS	-	-	Test	WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1951-A102	2433762.50	1951 Apr 26	X-7A-1	-	1	-	-	-	B-29-073?	HADC	RW07/25?	WS	LP1	10?	-	-
1951-A103	2433950.50	1951 Nov	X-7A-1	-	2	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1951-A37	2433826.50	1951 Jun 29	Honest John	-	1	-	-	-	-	WS	-	-	-	2	-	-
1951-A44	2433845.50	1951 Jul 18	Honest John	-	2	-	-	-	-	WS	-	-	-	2?	-	-
1951-A47	2433852.50	1951 Jul 25	Honest John	-	3	-	-	-	-	WS	-	-	-	2?	-	-
1951-A49	2433859.50	1951 Aug 01	Honest John	-	4	-	-	-	-	WS	-	-	-	2?	-	-
1951-A51	2433865.50	1951 Aug 07	Honest John	-	5	-	-	-	-	WS	-	-	-	2?	-	-
1951-A73	2433936.50	1951 Oct 17	Honest John	-	7	-	-	-	-	WS	-	-	-	10?	-	-
1951-A74	2433936.50	1951 Oct 17	Honest John	-	6	-	-	-	-	WS	-	-	-	10?	-	-
1951-A75	2433943.50	1951 Oct 24	Honest John	-	8	-	-	-	-	WS	-	-	-	10?	-	-
1951-A76	2433943.50	1951 Oct 24	Honest John	-	9	-	-	-	-	WS	-	-	-	10?	-	-
1951-A79	2433963.50	1951 Nov 13	Honest John	-	13	-	-	-	-	WS	-	-	-	10?	-	-
1951-A80	2433964.50	1951 Nov 14	Honest John	-	11	-	-	-	-	WS	-	-	-	10?	-	-
1951-A81	2433964.50	1951 Nov 14	Honest John	-	10	-	-	-	-	WS	-	-	-	10?	-	-
1951-A86	2433978.50	1951 Nov 28	Honest John	-	12	-	-	-	-	WS	-	-	-	10?	-	-
1951-A97	2433997.50	1951 Dec 17	Honest John	-	14	-	-	-	-	WS	-	-	-	10?	-	-
1951-A98	2433997.50	1951 Dec 17	Honest John	-	15	-	-	-	-	WS	-	-	-	10?	-	-
1952-A02	2434015.50	1952 Jan 04	Honest John	-	16	-	-	-	-	WS	-	-	-	10?	-	-
1952-A03	2434015.50	1952 Jan 04	Honest John	-	17	-	-	-	-	WS	-	-	-	10?	-	-
1952-A04	2434020.50	1952 Jan 09	Honest John	-	18	-	-	-	-	WS	-	-	-	10?	-	-
1952-A05	2434020.50	1952 Jan 09	Honest John	-	19	-	-	-	-	WS	-	-	-	10?	-	-
1952-A25	2434053.50	1952 Feb 11	Honest John	-	20	-	-	-	-	WS	-	-	-	10?	-	-
1952-A26	2434053.50	1952 Feb 11	Honest John	-	21	-	-	-	-	WS	-	-	-	10?	-	-
1952-A27	2434053.50	1952 Feb 11	Honest John	-	22	-	-	-	-	WS	-	-	-	10?	-	-
1952-A28	2434053.50	1952 Feb 11	Honest John	-	23	-	-	-	-	WS	-	-	-	10?	-	-
1952-A35	2434069.50	1952 Feb 27	Honest John	-	24	-	-	-	-	WS	-	-	-	10?	-	-
1952-A36	2434069.50	1952 Feb 27	Honest John	-	25	-	-	-	-	WS	-	-	-	10?	-	-
1952-A56	2434102.50	1952 Mar 31	Honest John	-	26	-	-	-	-	WS	-	-	-	10?	-	-
1952-A57	2434102.50	1952 Mar 31	Honest John	-	27	-	-	-	-	WS	-	-	-	10?	-	-
1952-A58	2434104.50	1952 Apr 02	Honest John	-	28	-	-	-	-	WS	-	-	-	10?	-	-
1952-A59	2434104.50	1952 Apr 02	Honest John	-	29	-	-	-	-	WS	-	-	-	10?	-	-
1952-A85	2434154.50	1952 May 22	Honest John	-	30	-	-	-	-	WS	-	-	-	10?	-	-
1952-A86	2434154.50	1952 May 22	Honest John	-	31	-	-	-	-	WS	-	-	-	10?	-	-
1952-A89	2434155.50	1952 May 23	Honest John	-	32	-	-	-	-	WS	-	-	-	10?	-	-
1952-A91	2434161.50	1952 May 29	Honest John	-	33	-	-	-	-	WS	-	-	-	10?	-	-
1952-A96	2434180.50	1952 Jun 17	Honest John	-	36	-	-	-	-	WS	-	-	-	10?	-	-
1952-A97	2434180.50	1952 Jun 17	Honest John	-	34	-	-	-	-	WS	-	-	-	10?	-	-
1952-A98	2434180.50	1952 Jun 17	Honest John	-	35	-	-	-	-	WS	-	-	-	10?	-	-
1952-A104	2434193.50	1952 Jun 30	Honest John	-	38	-	-	-	-	WS	-	-	-	10?	-	-
1952-A105	2434193.50	1952 Jun 30	Honest John	-	37	-	-	-	-	WS	-	-	-	10?	-	-
1952-A107	2434200.50	1952 Jul 07	Honest John	-	39	-	-	-	-	WS	-	-	-	10?	-	-
1952-A117	2434216.50	1952 Jul 23	Honest John	-	40	-	-	-	-	WS	-	-	-	10?	-	-
1952-A118	2434216.50	1952 Jul 23	Honest John	-	41	-	-	-	-	WS	-	-	-	10?	-	-
1952-A120	2434221.50	1952 Jul 28	Honest John	-	43	-	-	-	-	WS	-	-	-	10?	-	-
1952-A121	2434221.50	1952 Jul 28	Honest John	-	42	-	-	-	-	WS	-	-	-	10?	-	-
1952-A124	2434228.50	1952 Aug 04	Honest John	-	44	-	-	-	-	WS	-	-	-	10?	-	-
1952-A125	2434228.50	1952 Aug 04	Honest John	-	45	-	-	-	-	WS	-	-	-	10?	-	-
1952-A132	2434235.50	1952 Aug 11	Honest John	-	46	-	-	-	-	WS	-	-	-	10?	-	-
1952-A133	2434235.50	1952 Aug 11	Honest John	-	47	-	-	-	-	WS	-	-	-	10?	-	-
1952-A138	2434244.50	1952 Aug 20	Honest John	-	48	-	-	-	-	WS	-	-	-	10?	-	-
1952-A139	2434244.50	1952 Aug 20	Honest John	-	49	-	-	-	-	WS	-	-	-	10?	-	-
1952-A150	2434265.50	1952 Sep 10	Honest John	-	51	-	-	-	-	WS	-	-	-	10?	-	-
1952-A151	2434265.50	1952 Sep 10	Honest John	-	50	-	-	-	-	WS	-	-	-	10?	-	-
1952-A158	2434272.50	1952 Sep 17	Honest John	-	52	-	-	-	-	WS	-	-	-	10?	-	-
1952-A167	2434281.50	1952 Sep 26	Honest John	-	53	-	-	-	-	WS	-	-	-	10?	-	-
1952-A172	2434288.50	1952 Oct 03	Honest John	-	54	-	-	-	-	WS	-	-	-	10?	-	-
1952-A173	2434288.50	1952 Oct 03	Honest John	-	55	-	-	-	-	WS	-	-	-	10?	-	-
1952-A184	2434300.50	1952 Oct 15	Honest John	-	56	-	-	-	-	WS	-	-	-	10?	-	-
1952-A185	2434300.50	1952 Oct 15	Honest John	-	57	-	-	-	-	WS	-	-	-	10?	-	-
1952-A186	2434302.50	1952 Oct 17	Honest John	-	58	-	-	-	-	WS	-	-	-	10?	-	-
1952-A187	2434302.50	1952 Oct 17	Honest John	-	59	-	-	-	-	WS	-	-	-	10?	-	-
1952-A196	2434314.50	1952 Oct 29	Honest John	-	60	-	-	-	-	WS	-	-	-	10?	-	-
1952-A197	2434314.50	1952 Oct 29	Honest John	-	61	-	-	-	-	WS	-	-	-	10?	-	-
1952-A210	2434323.50	1952 Nov 07	Honest John	-	62	-	-	-	-	WS	-	-	-	10?	-	-
1952-A211	2434323.50	1952 Nov 07	Honest John	-	63	-	-	-	-	WS	-	-	-	10?	-	-
1952-A232	2434335.50	1952 Nov 19	Honest John	-	64	-	-	-	-	WS	-	-	-	10?	-	-
1952-A234	2434336.50	1952 Nov 20	Honest John	-	66	-	-	-	-	WS	-	-	-	10?	-	-
1952-A235	2434336.50	1952 Nov 20	Honest John	-	65	-	-	-	-	WS	-	-	-	10?	-	-
1952-A238	2434337.50	1952 Nov 21	Honest John	-	67	-	-	-	-	WS	-	-	-	10?	-	-
1952-A242	2434342.50	1952 Nov 26	Honest John	-	68	-	-	-	-	WS	-	-	-	10?	-	-
1952-A243	2434342.50	1952 Nov 26	Honest John	-	70	-	-	-	-	WS	-	-	-	10?	-	-
1952-A244	2434342.50	1952 Nov 26	Honest John	-	69	-	-	-	-	WS	-	-	-	10?	-	-
1952-A245	2434342.50	1952 Nov 26	Honest John	-	71	-	-	-	-	WS	-	-	-	10?	-	-
1952-A251	2434349.50	1952 Dec 03	Honest John	-	72	-	-	-	-	WS	-	-	-	10?	-	-
1952-A260	2434351.50	1952 Dec 05	Honest John	-	73	-	-	-	-	WS	-	-	-	10?	-	-
1952-A261	2434351.50	1952 Dec 05	Honest John	-	74	-	-	-	-	WS	-	-	-	10?	-	-
1952-A267	2434361.50	1952 Dec 15	Honest John	-	76	-	-	-	-	WS	-	-	-	10?	-	-
1952-A268	2434361.50	1952 Dec 15	Honest John	-	75	-	-	-	-	WS	-	-	-	10?	-	-
1952-A286	2434363.50	1952 Dec 17	X-7A-1	-	-	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1952-A277	2434365.50	1952 Dec 19	Honest John	-	78	-	-	-	-	WS	-	-	-	10?	-	-
1952-A278	2434365.50	1952 Dec 19	Honest John	-	77	-	-	-	-	WS	-	-	-	10?	-	-
1953-A05	2434382.50	1953 Jan 05	Honest John	-	79	-	-	-	-	WS	-	-	-	10?	-	-
1953-A09	2434389.50	1953 Jan 12	Honest John	-	80	-	-	-	-	WS	-	-	-	10?	-	-
1953-A10	2434389.50	1953 Jan 12	Honest John	-	81	-	-	-	-	WS	-	-	-	10?	-	-
1953-A13	2434390.50	1953 Jan 13	Honest John	-	82	-	-	-	-	WS	-	-	-	10?	-	-
1953-A492	2434392.50	1953 Jan 15	Father John	1	1	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A19	2434393.50	1953 Jan 16	Honest John	-	83	-	-	-	-	WS	-	-	-	10?	-	-
1953-A20	2434393.50	1953 Jan 16	Honest John	-	84	-	-	-	-	WS	-	-	-	10?	-	-
1953-A36	2434405.50	1953 Jan 28	Honest John	-	86EN	-	-	-	-	WS	-	-	-	10?	-	-
1953-A37	2434405.50	1953 Jan 28	Honest John	-	85EN	-	-	-	-	WS	-	-	-	10?	-	-
1953-A38	2434406.50	1953 Jan 29	Honest John	-	87EO	-	-	-	-	WS	-	-	-	10?	-	-
1953-A501	2434410.50	1953 Feb 2	X-7A-1	-	-	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1953-A49	2434419.50	1953 Feb 11	Honest John	-	88	-	-	-	-	WS	-	-	-	10?	-	-
1953-A50	2434419.50	1953 Feb 11	Honest John	-	89	-	-	-	-	WS	-	-	-	10?	-	-
1953-A51	2434419.50	1953 Feb 11	Honest John	-	90	-	-	-	-	WS	-	-	-	10?	-	-
1953-A52	2434419.50	1953 Feb 11	Honest John	-	91	-	-	-	-	WS	-	-	-	10?	-	-
1953-A53	2434420.50	1953 Feb 12	Honest John	-	92	-	-	-	-	WS	-	-	-	10?	-	-
1953-A54	2434420.50	1953 Feb 12	Honest John	-	93	-	-	-	-	WS	-	-	-	10?	-	-
1953-A58	2434421.50	1953 Feb 13	Honest John	-	96	-	-	-	-	WS	-	-	-	10?	-	-
1953-A59	2434421.50	1953 Feb 13	Honest John	-	95	-	-	-	-	WS	-	-	-	10?	-	-
1953-A60	2434421.50	1953 Feb 13	Honest John	-	94	-	-	-	-	WS	-	-	-	10?	-	-
1953-A71	2434428.50	1953 Feb 20	Honest John	-	198	-	-	-	-	WS	-	-	-	10?	-	-
1953-A75	2434433.50	1953 Feb 25	Honest John	-	346	-	-	-	-	WS	-	-	-	10?	-	-
1953-A76	2434433.50	1953 Feb 25	Honest John	-	306	-	-	-	-	WS	-	-	-	10?	-	-
1953-A84	2434435.50	1953 Feb 27	Honest John	-	347	-	-	-	-	WS	-	-	-	10?	-	-
1953-A88	2434438.50	1953 Mar 02	Honest John	-	1SP	-	-	-	-	WS	-	-	-	10?	-	-
1953-A95	2434441.50	1953 Mar 05	Honest John	-	344	-	-	-	-	WS	-	-	-	10?	-	-
1953-A101	2434442.50	1953 Mar 06	Honest John	-	340	-	-	-	-	WS	-	-	-	10?	-	-
1953-A104	2434447.50	1953 Mar 11	Honest John	-	304	-	-	-	-	WS	-	-	-	10?	-	-
1953-A105	2434447.50	1953 Mar 11	Honest John	-	305	-	-	-	-	WS	-	-	-	10?	-	-
1953-A107	2434448.50	1953 Mar 12	Honest John	-	345	-	-	-	-	WS	-	-	-	10?	-	-
1953-A114	2434449.50	1953 Mar 13	Honest John	-	348	-	-	-	-	WS	-	-	-	10?	-	-
1953-A115	2434449.50	1953 Mar 13	Honest John	-	349	-	-	-	-	WS	-	-	-	10?	-	-
1953-A117	2434450.50	1953 Mar 14	Honest John	-	350	-	-	-	-	WS	-	-	-	10?	-	-
1953-A135	2434456.50	1953 Mar 20	Honest John	-	351	-	-	-	-	WS	-	-	-	10?	-	-
1953-A136	2434457.50	1953 Mar 21	Honest John	-	352	-	-	-	-	WS	-	-	-	10?	-	-
1953-A137	2434457.50	1953 Mar 21	Honest John	-	187	-	-	-	-	WS	-	-	-	10?	-	-
1953-A140	2434459.50	1953 Mar 23	Honest John	-	183	-	-	-	-	WS	-	-	-	10?	-	-
1953-A141	2434460.50	1953 Mar 24	Honest John	-	182	-	-	-	-	WS	-	-	-	10?	-	-
1953-A493	2434461.50	1953 Mar 25	Father John	2	308	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1953-A149	2434463.50	1953 Mar 27	Honest John	-	188	-	-	-	-	WS	-	-	-	10?	-	-
1953-A150	2434463.50	1953 Mar 27	Honest John	-	189	-	-	-	-	WS	-	-	-	10?	-	-
1953-A502	2434475.50	1953 Apr 8	X-7A-1	-	-	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1953-A185	2434491.50	1953 Apr 24	Honest John	-	305	-	-	-	-	WS	-	-	-	10?	-	-
1953-A186	2434491.50	1953 Apr 24	Honest John	-	304	-	-	-	-	WS	-	-	-	10?	-	-
1953-A189	2434494.50	1953 Apr 27	Honest John	-	184	-	-	-	-	WS	-	-	-	10?	-	-
1953-A190	2434494.50	1953 Apr 27	Honest John	-	185	-	-	-	-	WS	-	-	-	10?	-	-
1953-A198	2434498.50	1953 May 01	Honest John	-	186	-	-	-	-	WS	-	-	-	10?	-	-
1953-A199	2434501.50	1953 May 04	Honest John	-	205	-	-	-	-	WS	-	-	-	10?	-	-
1953-A201	2434502.50	1953 May 05	Honest John	-	206	-	-	-	-	WS	-	-	-	10?	-	-
1953-A204	2434503.50	1953 May 06	Honest John	-	199	-	-	-	-	WS	-	-	-	10?	-	-
1953-A224	2434522.50	1953 May 25	Honest John	-	353	-	-	-	-	WS	-	-	-	10?	-	-
1953-A225	2434522.50	1953 May 25	Honest John	-	354	-	-	-	-	WS	-	-	-	10?	-	-
1953-A226	2434523.50	1953 May 26	Honest John	-	307	-	-	-	-	WS	-	-	-	10?	-	-
1953-A227	2434523.50	1953 May 26	Honest John	-	309	-	-	-	-	WS	-	-	-	10?	-	-
1953-A236	2434537.50	1953 Jun 09	Honest John	-	211	-	-	-	-	WS	-	-	-	10?	-	-
1953-A242	2434540.50	1953 Jun 12	Honest John	-	310	-	-	-	-	WS	-	-	-	10?	-	-
1953-A243	2434540.50	1953 Jun 12	Honest John	-	311	-	-	-	-	WS	-	-	-	10?	-	-
1953-A250	2434548.50	1953 Jun 20	Honest John	-	493	Acc Test 1A	-	-	-	WS	-	-	-	10?	-	-
1953-A251	2434548.50	1953 Jun 20	Honest John	-	494	Acc Test 1B	-	-	-	WS	-	-	-	10?	-	-
1953-A252	2434550.50	1953 Jun 22	Honest John	-	491	Acc Test 2A	-	-	-	WS	-	-	-	10?	-	-
1953-A253	2434550.50	1953 Jun 22	Honest John	-	492	Acc Test 2B	-	-	-	WS	-	-	-	10?	-	-
1953-A254	2434551.50	1953 Jun 23	Honest John	-	496	-	-	-	-	WS	-	-	-	10?	-	-
1953-A255	2434551.50	1953 Jun 23	Honest John	-	497	-	-	-	-	WS	-	-	-	10?	-	-
1953-A260	2434553.50	1953 Jun 25	Honest John	-	495	-	-	-	-	WS	-	-	-	10?	-	-
1953-A261	2434553.50	1953 Jun 25	Honest John	-	499	-	-	-	-	WS	-	-	-	10?	-	-
1953-A264	2434554.50	1953 Jun 26	Honest John	-	490	-	-	-	-	WS	-	-	-	10?	-	-
1953-A265	2434554.50	1953 Jun 26	Honest John	-	498	-	-	-	-	WS	-	-	-	10?	-	-
1953-A266	2434556.50	1953 Jun 28	Honest John	-	407	-	-	-	-	WS	-	-	-	10?	-	-
1953-A267	2434556.50	1953 Jun 28	Honest John	-	408	-	-	-	-	WS	-	-	-	10?	-	-
1953-A268	2434556.50	1953 Jun 28	Honest John	-	406	-	-	-	-	WS	-	-	-	10?	-	-
1953-A269	2434556.50	1953 Jun 28	Honest John	-	405	-	-	-	-	WS	-	-	-	10?	-	-
1953-A270	2434556.50	1953 Jun 28	Honest John	-	404	-	-	-	-	WS	-	-	-	10?	-	-
1953-A271	2434556.50	1953 Jun 28	Honest John	-	403	-	-	-	-	WS	-	-	-	10?	-	-
1953-A272	2434557.50	1953 Jun 29	Honest John	-	410	-	-	-	-	WS	-	-	-	10?	-	-
1953-A273	2434557.50	1953 Jun 29	Honest John	-	411	-	-	-	-	WS	-	-	-	10?	-	-
1953-A274	2434557.50	1953 Jun 29	Honest John	-	412	-	-	-	-	WS	-	-	-	10?	-	-
1953-A275	2434557.50	1953 Jun 29	Honest John	-	409	-	-	-	-	WS	-	-	-	10?	-	-
1953-A290	2434572.50	1953 Jul 14	Honest John	-	212H	-	-	-	-	WS	-	-	-	10?	-	-
1953-A301	2434580.50	1953 Jul 22	Honest John	-	312H	-	-	-	-	WS	-	-	-	10?	-	-
1953-A321	2434601.50	1953 Aug 12	Honest John	-	325	-	-	-	-	WS	-	-	-	10?	-	-
1953-A322	2434601.50	1953 Aug 12	Honest John	-	324	-	-	-	-	WS	-	-	-	10?	-	-
1953-A328	2434606.50	1953 Aug 17	Honest John	-	68M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A329	2434607.50	1953 Aug 18	Honest John	-	213	-	-	-	-	WS	-	-	-	10?	-	-
1953-A336	2434617.50	1953 Aug 28	Honest John	-	329	-	-	-	-	WS	-	-	-	10?	-	-
1953-A337	2434617.50	1953 Aug 28	Honest John	-	330	-	-	-	-	WS	-	-	-	10?	-	-
1953-A340	2434621.50	1953 Sep 01	Honest John	-	200	-	-	-	-	WS	-	-	-	10?	-	-
1953-A341	2434621.50	1953 Sep 01	Honest John	-	201	-	-	-	-	WS	-	-	-	10?	-	-
1953-A347	2434624.50	1953 Sep 04	Honest John	-	331	-	-	-	-	WS	-	-	-	10?	-	-
1953-A348	2434624.50	1953 Sep 04	Honest John	-	332	-	-	-	-	WS	-	-	-	10?	-	-
1953-A351	2434630.50	1953 Sep 10	Honest John	-	556	-	-	-	-	WS	-	-	-	10?	-	-
1953-A352	2434630.50	1953 Sep 10	Honest John	-	557	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A503	2434632.50	1953 Sep 12	X-7A-1	-	-	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1953-A357	2434635.50	1953 Sep 15	Honest John	-	558	-	-	-	-	WS	-	-	-	10?	-	-
1953-A359	2434636.50	1953 Sep 16	Honest John	-	313	-	-	-	-	WS	-	-	-	10?	-	-
1953-A360	2434636.50	1953 Sep 16	Honest John	-	323	-	-	-	-	WS	-	-	-	10?	-	-
1953-A365	2434643.50	1953 Sep 23	Honest John	-	559	-	-	-	-	WS	-	-	-	10?	-	-
1953-A366	2434643.50	1953 Sep 23	Honest John	-	560	-	-	-	-	WS	-	-	-	10?	-	-
1953-A370	2434645.50	1953 Sep 25	Honest John	-	70	-	-	-	-	WS	-	-	-	10?	-	-
1953-A376	2434649.50	1953 Sep 29	Honest John	-	359G	-	-	-	-	WS	-	-	-	10?	-	-
1953-A378	2434651.50	1953 Oct 01	Honest John	-	321S	-	-	-	-	WS	-	-	-	10?	-	-
1953-A382	2434652.50	1953 Oct 02	Honest John	-	319S	-	-	-	-	WS	-	-	-	10?	-	-
1953-A383	2434655.50	1953 Oct 05	Honest John	-	2SP	-	-	-	-	WS	-	-	-	10?	-	-
1953-A384	2434655.50	1953 Oct 05	Honest John	-	4SP	-	-	-	-	WS	-	-	-	10?	-	-
1953-A385	2434655.50	1953 Oct 05	Honest John	-	358G	-	-	-	-	WS	-	-	-	10?	-	-
1953-A394	2434663.50	1953 Oct 13	Honest John	-	316S	-	-	-	-	WS	-	-	-	10?	-	-
1953-A395	2434663.50	1953 Oct 13	Honest John	-	322S	-	-	-	-	WS	-	-	-	10?	-	-
1953-A494	2434666.50	1953 Oct 16	Father John	2	3	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1953-A411	2434672.50	1953 Oct 22	Honest John	-	69N	-	-	-	-	WS	-	-	-	10?	-	-
1953-A416	2434673.50	1953 Oct 23	Honest John	-	1DJ	Demi John	-	-	-	WS	-	-	-	1?	-	-
1953-A495	2434679.50	1953 Oct 29	Father John	2	4	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1953-A496	2434680.50	1953 Oct 30	Father John	2	5	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1953-A424	2434684.50	1953 Nov 03	Honest John	-	208M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A425	2434684.50	1953 Nov 03	Honest John	-	207M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A433	2434685.50	1953 Nov 04	Honest John	-	2DJ	-	-	-	-	WS	-	-	-	10?	-	-
1953-A435	2434691.50	1953 Nov 10	Honest John	-	3DJ	-	-	-	-	WS	-	-	-	10?	-	-
1953-A436	2434691.50	1953 Nov 10	Honest John	-	4DJ	-	-	-	-	WS	-	-	-	10?	-	-
1953-A437	2434693.50	1953 Nov 12	Honest John	-	5DJ	-	-	-	-	WS	-	-	-	10?	-	-
1953-A442	2434698.50	1953 Nov 17	Honest John	-	209M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A443	2434698.50	1953 Nov 17	Honest John	-	210M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A456	2434701.50	1953 Nov 20	Honest John	-	355G	-	-	-	-	WS	-	-	-	10?	-	-
1953-A457	2434701.50	1953 Nov 20	Honest John	-	356G	-	-	-	-	WS	-	-	-	10?	-	-
1953-A459	2434706.50	1953 Nov 25	Honest John	-	6DJ	-	-	-	-	WS	-	-	-	10?	-	-
1953-A504	2434719.50	1953 Dec 8	X-7A-1	-	-	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1953-A472	2434720.50	1953 Dec 09	Honest John	-	214M	-	-	-	-	WS	-	-	-	10?	-	-
1953-A475	2434721.50	1953 Dec 10	Honest John	-	3566	-	-	-	-	WS	-	-	-	10?	-	-
1953-A491	2434729.50	1953 Dec 18	Honest John	-	422N	-	-	-	-	WS	-	-	-	10?	-	-
1953-A497	2434377.50	1953	Father John	2	6	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1954-A716	2434742.50	1954	Father John	2	10	Warhead Accel Test	-	-	-	WS	-	-	-	10?	-	-
1954-A14	2434754.50	1954 Jan 12	Honest John	-	500C	-	-	-	-	WS	-	-	-	10?	-	-
1954-A18	2434757.50	1954 Jan 15	Honest John	-	5SP	-	-	-	-	WS	-	-	-	10?	-	-
1954-A19	2434757.50	1954 Jan 15	Honest John	-	3SP	-	-	-	-	WS	-	-	-	10?	-	-
1954-A26	2434761.50	1954 Jan 19	Honest John	-	401M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A27	2434762.50	1954 Jan 20	Honest John	-	216M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A731	2434768.50	1954 Jan 26	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A35	2434770.50	1954 Jan 28	Honest John	-	400M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A39	2434774.50	1954 Feb 01	Honest John	-	402ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A40	2434775.50	1954 Feb 02	Honest John	-	202H	-	-	-	-	WS	-	-	-	10?	-	-
1954-A47	2434782.50	1954 Feb 09	Honest John	-	417ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A48	2434782.50	1954 Feb 09	Honest John	-	416ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A49	2434783.50	1954 Feb 10	Honest John	-	218M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A50	2434783.50	1954 Feb 10	Honest John	-	217M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A53	2434784.50	1954 Feb 11	Honest John	-	420ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A54	2434785.50	1954 Feb 12	Honest John	-	378-0	-	-	-	-	WS	-	-	-	10?	-	-
1954-A55	2434785.50	1954 Feb 12	Honest John	-	379-0	-	-	-	-	WS	-	-	-	10?	-	-
1954-A56	2434788.50	1954 Feb 15	Honest John	-	430ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A57	2434788.50	1954 Feb 15	Honest John	-	431ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A58	2434789.50	1954 Feb 16	Honest John	-	432ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A59	2434789.50	1954 Feb 16	Honest John	-	418ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A60	2434790.50	1954 Feb 17	Honest John	-	219M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A61	2434790.50	1954 Feb 17	Honest John	-	220M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A65	2434791.50	1954 Feb 18	Honest John	-	203H	-	-	-	-	WS	-	-	-	10?	-	-
1954-A67	2434792.50	1954 Feb 19	Honest John	-	434ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A68	2434792.50	1954 Feb 19	Honest John	-	414ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A71	2434796.50	1954 Feb 23	Honest John	-	423ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A72	2434796.50	1954 Feb 23	Honest John	-	429ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A74	2434797.50	1954 Feb 24	Honest John	-	424ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A75	2434797.50	1954 Feb 24	Honest John	-	421ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A76	2434797.50	1954 Feb 24	Honest John	-	433ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A732	2434797.50	1954 Feb 24	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A77	2434798.50	1954 Feb 25	Honest John	-	413ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A78	2434798.50	1954 Feb 25	Honest John	-	428ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A79	2434798.50	1954 Feb 25	Honest John	-	415ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A82	2434799.50	1954 Feb 26	Honest John	-	427ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A83	2434799.50	1954 Feb 26	Honest John	-	425ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A87	2434802.50	1954 Mar 01	Honest John	-	419ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A88	2434802.50	1954 Mar 01	Honest John	-	426ST	-	-	-	-	WS	-	-	-	10?	-	-
1954-A90	2434804.50	1954 Mar 03	Honest John	-	381-0	-	-	-	-	WS	-	-	-	10?	-	-
1954-A91	2434804.50	1954 Mar 03	Honest John	-	380-0	-	-	-	-	WS	-	-	-	10?	-	-
1954-A93	2434805.50	1954 Mar 04	Honest John	-	292-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A94	2434805.50	1954 Mar 04	Honest John	-	293-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A95	2434805.50	1954 Mar 04	Honest John	-	291-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A96	2434805.50	1954 Mar 04	Honest John	-	294-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A97	2434806.50	1954 Mar 05	Honest John	-	295-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A98	2434806.50	1954 Mar 05	Honest John	-	296-T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A108	2434811.50	1954 Mar 10	Honest John	-	220	-	-	-	-	WS	-	-	-	10?	-	-
1954-A113	2434819.50	1954 Mar 18	Honest John	-	202	-	-	-	-	WS	-	-	-	10?	-	-
1954-A117	2434820.50	1954 Mar 19	Honest John	-	500	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A127	2434827.50	1954 Mar 26	Honest John	-	166	-	-	-	-	WS	-	-	-	10?	-	-
1954-A128	2434827.50	1954 Mar 26	Honest John	-	490	-	-	-	-	WS	-	-	-	10?	-	-
1954-A133	2434830.50	1954 Mar 29	Honest John	-	443	-	-	-	-	WS	-	-	-	10?	-	-
1954-A139	2434833.50	1954 Apr 01	Honest John	-	86A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A140	2434833.50	1954 Apr 01	Honest John	-	161A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A144	2434838.50	1954 Apr 06	Honest John	-	452M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A145	2434838.50	1954 Apr 06	Honest John	-	454M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A151	2434840.50	1954 Apr 08	Honest John	-	296M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A152	2434840.50	1954 Apr 08	Honest John	-	470M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A154	2434841.50	1954 Apr 09	Honest John	-	501	-	-	-	-	WS	-	-	-	10?	-	-
1954-A155	2434841.50	1954 Apr 09	Honest John	-	511	-	-	-	-	WS	-	-	-	10?	-	-
1954-A184	2434853.50	1954 Apr 21	Honest John	-	476M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A185	2434853.50	1954 Apr 21	Honest John	-	479M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A198	2434859.50	1954 Apr 27	Honest John	-	503M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A199	2434859.50	1954 Apr 27	Honest John	-	472M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A215	2434861.50	1954 Apr 29	Honest John	-	477M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A216	2434861.50	1954 Apr 29	Honest John	-	475M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A220	2434862.50	1954 Apr 30	Honest John	-	212	-	-	-	-	WS	-	-	-	10?	-	-
1954-A221	2434862.50	1954 Apr 30	Honest John	-	277	-	-	-	-	WS	-	-	-	10?	-	-
1954-A232	2434867.50	1954 May 05	Honest John	-	211M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A233	2434867.50	1954 May 05	Honest John	-	207M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A252	2434873.50	1954 May 11	Honest John	-	220M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A253	2434873.50	1954 May 11	Honest John	-	268M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A255	2434874.50	1954 May 12	Honest John	-	585	-	-	-	-	WS	-	-	-	10?	-	-
1954-A256	2434874.50	1954 May 12	Honest John	-	586	-	-	-	-	WS	-	-	-	10?	-	-
1954-A267	2434875.50	1954 May 13	Honest John	-	580	-	-	-	-	WS	-	-	-	10?	-	-
1954-A268	2434875.50	1954 May 13	Honest John	-	584	-	-	-	-	WS	-	-	-	10?	-	-
1954-A270	2434876.50	1954 May 14	Honest John	-	577	-	-	-	-	WS	-	-	-	10?	-	-
1954-A271	2434876.50	1954 May 14	Honest John	-	581	-	-	-	-	WS	-	-	-	10?	-	-
1954-A278	2434879.50	1954 May 17	Honest John	-	576M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A279	2434879.50	1954 May 17	Honest John	-	578	-	-	-	-	WS	-	-	-	10?	-	-
1954-A292	2434883.50	1954 May 21	Honest John	-	205	-	-	-	-	WS	-	-	-	10?	-	-
1954-A293	2434886.50	1954 May 24	Honest John	-	213	-	-	-	-	WS	-	-	-	10?	-	-
1954-A294	2434886.50	1954 May 24	Honest John	-	436	-	-	-	-	WS	-	-	-	10?	-	-
1954-A306	2434895.50	1954 Jun 2	Honest John	-	582	-	-	-	-	WS	-	-	-	10?	-	-
1954-A307	2434895.50	1954 Jun 2	Honest John	-	575	-	-	-	-	WS	-	-	-	10?	-	-
1954-A319	2434897.50	1954 Jun 4	Honest John	-	575	-	-	-	-	WS	-	-	-	10?	-	-
1954-A323	2434900.50	1954 Jun 7	Honest John	-	180M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A324	2434900.50	1954 Jun 7	Honest John	-	206M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A733	2434901.50	1954 Jun 8	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A338	2434903.50	1954 Jun 10	Honest John	-	262	-	-	-	-	WS	-	-	-	10?	-	-
1954-A339	2434903.50	1954 Jun 10	Honest John	-	271	-	-	-	-	WS	-	-	-	10?	-	-
1954-A345	2434907.50	1954 Jun 14	Honest John	-	279M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A346	2434907.50	1954 Jun 14	Honest John	-	203M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A358	2434910.50	1954 Jun 17	Honest John	-	246C	-	-	-	-	WS	-	-	-	10?	-	-
1954-A359	2434910.50	1954 Jun 17	Honest John	-	274CC	-	-	-	-	WS	-	-	-	10?	-	-
1954-A362	2434914.50	1954 Jun 21	Honest John	-	270M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A366	2434916.50	1954 Jun 23	Honest John	-	278M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A367	2434916.50	1954 Jun 23	Honest John	-	398M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A386	2434923.50	1954 Jun 30	Honest John	-	432M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A387	2434923.50	1954 Jun 30	Honest John	-	437M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A409	2434936.50	1954 Jul 13	Honest John	-	437M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A412	2434938.50	1954 Jul 15	Honest John	-	434	-	-	-	-	WS	-	-	-	10?	-	-
1954-A419	2434943.50	1954 Jul 20	Honest John	-	438	-	-	-	-	WS	-	-	-	10?	-	-
1954-A420	2434943.50	1954 Jul 20	Honest John	-	413	-	-	-	-	WS	-	-	-	10?	-	-
1954-A434	2434946.50	1954 Jul 23	Honest John	-	462	-	-	-	-	WS	-	-	-	10?	-	-
1954-A448	2434951.50	1954 Jul 28	Honest John	-	409M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A449	2434951.50	1954 Jul 28	Honest John	-	214M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A713	2434958.50	1954 Aug 4	Father John	2	7	Papa John 553-1	-	-	-	WS	-	-	-	10?	-	-
1954-A466	2434964.50	1954 Aug 10	Honest John	-	464S	-	-	-	-	WS	-	-	-	10?	-	-
1954-A467	2434964.50	1954 Aug 10	Honest John	-	433C	-	-	-	-	WS	-	-	-	10?	-	-
1954-A468	2434964.50	1954 Aug 10	Honest John	-	439C	-	-	-	-	WS	-	-	-	10?	-	-
1954-A474	2434966.50	1954 Aug 12	Honest John	-	486M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A475	2434966.50	1954 Aug 12	Honest John	-	487M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A481	2434973.50	1954 Aug 19	Honest John	-	447	-	-	-	-	WS	-	-	-	10?	-	-
1954-A490	2434980.50	1954 Aug 26	Honest John	-	550	-	-	-	-	WS	-	-	-	10?	-	-
1954-A495	2434986.50	1954 Sep 01	Honest John	-	384M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A502	2434993.50	1954 Sep 08	Honest John	-	435M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A522	2435000.50	1954 Sep 15	Honest John	-	546M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A532	2435007.50	1954 Sep 22	Honest John	-	551M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A539	2435008.50	1954 Sep 23	Honest John	-	390M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A540	2435008.50	1954 Sep 23	Honest John	-	497M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A734	2435008.50	1954 Sep 23	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A714	2435014.50	1954 Sep 29	Father John	2	8	Papa John 553-2	-	-	-	WS	-	-	-	10?	-	-
1954-A549	2435014.50	1954 Sep 29	Honest John	-	549M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A559	2435021.50	1954 Oct 06	Honest John	-	407M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A565	2435026.50	1954 Oct 11	Honest John	-	394ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A566	2435026.50	1954 Oct 11	Honest John	-	395ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A569	2435028.50	1954 Oct 13	Honest John	-	280AM	-	-	-	-	WS	-	-	-	10?	-	-
1954-A573	2435029.50	1954 Oct 14	Honest John	-	138ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A574	2435029.50	1954 Oct 14	Honest John	-	122ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A581	2435035.50	1954 Oct 20	Honest John	-	548M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A735	2435036.50	1954 Oct 21	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A591	2435040.50	1954 Oct 25	Honest John	-	813M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A593	2435042.50	1954 Oct 27	Honest John	-	559M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A598	2435043.50	1954 Oct 28	Honest John	-	814M	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A602	2435048.50	1954 Nov 02	Honest John	-	450M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A603	2435048.50	1954 Nov 02	Honest John	-	416M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A604	2435049.50	1954 Nov 03	Honest John	-	455M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A606	2435050.50	1954 Nov 04	Honest John	-	742	-	-	-	-	WS	-	-	-	10?	-	-
1954-A607	2435050.50	1954 Nov 04	Honest John	-	653	-	-	-	-	WS	-	-	-	10?	-	-
1954-A610	2435051.50	1954 Nov 05	Honest John	-	735	-	-	-	-	WS	-	-	-	10?	-	-
1954-A616	2435055.50	1954 Nov 09	Honest John	-	471M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A617	2435055.50	1954 Nov 09	Honest John	-	473M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A621	2435056.50	1954 Nov 10	Honest John	-	547M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A715	2435061.50	1954 Nov 15	Father John	2	9	Papa John 553-3	-	-	-	WS	-	-	-	10?	-	-
1954-A631	2435061.50	1954 Nov 15	Honest John	-	795	-	-	-	-	WS	-	-	-	10?	-	-
1954-A632	2435061.50	1954 Nov 15	Honest John	-	791	-	-	-	-	WS	-	-	-	10?	-	-
1954-A635	2435063.50	1954 Nov 17	Honest John	-	442	-	-	-	-	WS	-	-	-	10?	-	-
1954-A643	2435065.50	1954 Nov 19	Honest John	-	790	-	-	-	-	WS	-	-	-	10?	-	-
1954-A644	2435065.50	1954 Nov 19	Honest John	-	789	-	-	-	-	WS	-	-	-	10?	-	-
1954-A649	2435068.50	1954 Nov 22	Honest John	-	861	-	-	-	-	WS	-	-	-	10?	-	-
1954-A650	2435068.50	1954 Nov 22	Honest John	-	862	-	-	-	-	WS	-	-	-	10?	-	-
1954-A652	2435069.50	1954 Nov 23	Honest John	-	456M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A653	2435069.50	1954 Nov 23	Honest John	-	509M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A658	2435070.50	1954 Nov 24	Honest John	-	460M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A736	2435070.50	1954 Nov 24	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A663	2435075.50	1954 Nov 29	Honest John	-	484ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A664	2435075.50	1954 Nov 29	Honest John	-	449ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A665	2435077.50	1954 Dec 01	Honest John	-	494M	-	-	-	-	WS	-	-	-	10?	-	-
1954-A673	2435082.50	1954 Dec 06	Honest John	-	792PO	-	-	-	-	WS	-	-	-	10?	-	-
1954-A674	2435082.50	1954 Dec 06	Honest John	-	784PO	-	-	-	-	WS	-	-	-	10?	-	-
1954-A680	2435084.50	1954 Dec 08	Honest John	-	117AEM	-	-	-	-	WS	-	-	-	10?	-	-
1954-A694	2435089.50	1954 Dec 13	Honest John	-	545ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A695	2435089.50	1954 Dec 13	Honest John	-	556ES	-	-	-	-	WS	-	-	-	10?	-	-
1954-A698	2435090.50	1954 Dec 14	Honest John	-	M-62A-RM	-	-	-	-	WS	-	-	-	10?	-	-
1954-A699	2435090.50	1954 Dec 14	Honest John	-	M-64A-RM	-	-	-	-	WS	-	-	-	10?	-	-
1954-A737	2435090.50	1954 Dec 14	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1954-A738	2435097.50	1954 Dec 21	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A655	2435125.50	1955 Jan 18	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A30	2435126.50	1955 Jan 19	Honest John	-	467	-	-	-	-	WS	-	-	-	10?	-	-
1955-A35	2435128.50	1955 Jan 21	Honest John	-	785M	-	-	-	-	WS	-	-	-	10?	-	-
1955-A36	2435128.50	1955 Jan 21	Honest John	-	793M	-	-	-	-	WS	-	-	-	10?	-	-
1955-A37	2435128.50	1955 Jan 21	Honest John	-	794M	-	-	-	-	WS	-	-	-	10?	-	-
1955-A38	2435128.50	1955 Jan 21	Honest John	-	783M	-	-	-	-	WS	-	-	-	10?	-	-
1955-A43	2435132.50	1955 Jan 25	Honest John	-	M-87A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A44	2435132.50	1955 Jan 25	Honest John	-	M-34A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A45	2435132.50	1955 Jan 25	Honest John	-	347RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A46	2435132.50	1955 Jan 25	Honest John	-	346RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A51	2435134.50	1955 Jan 27	Honest John	-	M-780-AO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A52	2435134.50	1955 Jan 27	Honest John	-	804-AO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A56	2435135.50	1955 Jan 28	Honest John	-	974-AO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A57	2435135.50	1955 Jan 28	Honest John	-	975-AO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A62	2435139.50	1955 Feb 01	Honest John	-	510-RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A63	2435139.50	1955 Feb 01	Honest John	-	469-RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A656	2435139.50	1955 Feb 1	X-7A-1	-	MX-883	-	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A80	2435146.50	1955 Feb 08	Honest John	-	960PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A81	2435146.50	1955 Feb 08	Honest John	-	923RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A82	2435146.50	1955 Feb 08	Honest John	-	924RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A92	2435149.50	1955 Feb 11	Honest John	-	289-ES	-	-	-	-	WS	-	-	-	10?	-	-
1955-A93	2435149.50	1955 Feb 11	Honest John	-	126-ES	-	-	-	-	WS	-	-	-	10?	-	-
1955-A563	2435152.50	1955 Feb 14	Honest John	-	929-RS	Demi John	-	-	-	WS	-	-	-	10?	-	-
1955-A564	2435152.50	1955 Feb 14	Honest John	-	925-RS	Demi John	-	-	-	WS	-	-	-	10?	-	-
1955-A129	2435162.50	1955 Feb 24	Honest John	-	835-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A130	2435162.50	1955 Feb 24	Honest John	-	915-RS	-	-	-	-	WS	-	-	-	10?	-	-
1955-A131	2435162.50	1955 Feb 24	Honest John	-	839-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A132	2435162.50	1955 Feb 24	Honest John	-	911-RS	-	-	-	-	WS	-	-	-	10?	-	-
1955-A657	2435162.50	1955 Feb 24	X-7A-1	-	MX-883	ST-30 TV14	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A141	2435168.50	1955 Mar 02	Honest John	-	570EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A161	2435175.50	1955 Mar 09	Honest John	-	M-102-EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A182	2435180.50	1955 Mar 14	Honest John	-	M-930-RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A183	2435180.50	1955 Mar 14	Honest John	-	M-919-RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A187	2435182.50	1955 Mar 16	Honest John	-	172-A-EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A204	2435188.50	1955 Mar 22	Honest John	-	914RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A205	2435188.50	1955 Mar 22	Honest John	-	928RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A208	2435189.50	1955 Mar 23	Honest John	-	417EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A213	2435190.50	1955 Mar 24	Honest John	-	840PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A214	2435190.50	1955 Mar 24	Honest John	-	837PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A217	2435191.50	1955 Mar 25	Honest John	-	M-957-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A218	2435191.50	1955 Mar 25	Honest John	-	M-959-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A219	2435191.50	1955 Mar 25	Honest John	-	M-958-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A220	2435191.50	1955 Mar 25	Honest John	-	M-961-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A229	2435194.50	1955 Mar 28	Honest John	-	917RS	-	-	-	-	WS	-	-	-	10?	-	-
1955-A233	2435196.50	1955 Mar 30	Honest John	-	94A-EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A236	2435198.50	1955 Apr 01	Honest John	-	M-970-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A237	2435198.50	1955 Apr 01	Honest John	-	M-967-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A239	2435201.50	1955 Apr 04	Honest John	-	931RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A240	2435201.50	1955 Apr 04	Honest John	-	922RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A246	2435202.50	1955 Apr 05	Honest John	-	M-829-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A247	2435202.50	1955 Apr 05	Honest John	-	M-834-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A251	2435203.50	1955 Apr 06	Honest John	-	11A-EM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A670	2435204.50	1955 Apr 7	X-7A-1	-	MX-883	ST-31	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A262	2435205.50	1955 Apr 08	Honest John	-	M-116-AES	-	-	-	-	WS	-	-	-	10?	-	-
1955-A263	2435205.50	1955 Apr 08	Honest John	-	M-114 AES	-	-	-	-	WS	-	-	-	10?	-	-
1955-A264	2435205.50	1955 Apr 08	Honest John	-	M-969-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A265	2435205.50	1955 Apr 08	Honest John	-	M-971-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A292	2435216.50	1955 Apr 19	Honest John	-	1046RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A293	2435216.50	1955 Apr 19	Honest John	-	1045RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A298	2435217.50	1955 Apr 20	Honest John	-	M-830-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A299	2435217.50	1955 Apr 20	Honest John	-	M-836-PO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A566	2435218.50	1955 Apr 21	Honest John	-	921-ES	Demi John	-	-	-	WS	-	-	-	10?	-	-
1955-A658	2435226.50	1955 Apr 29	X-7A-1	-	MX-883	32	-	-	B-29	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A330	2435230.50	1955 May 03	Honest John	-	1019RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A331	2435230.50	1955 May 03	Honest John	-	1034RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A349	2435237.50	1955 May 10	Honest John	-	1029RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A350	2435237.50	1955 May 10	Honest John	-	1087RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A376	2435251.50	1955 May 24	Honest John	-	1028RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A377	2435251.50	1955 May 24	Honest John	-	1018RM	-	-	-	-	WS	-	-	-	10?	-	-
1955-A397	2435254.50	1955 May 27	Honest John	-	1035RO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A398	2435254.50	1955 May 27	Honest John	-	1056RO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A413	2435260.50	1955 Jun 02	Honest John	-	1032RS	-	-	-	-	WS	-	-	-	10?	-	-
1955-A418	2435261.50	1955 Jun 03	Honest John	-	1036RO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A419	2435261.50	1955 Jun 03	Honest John	-	1023RO	-	-	-	-	WS	-	-	-	10?	-	-
1955-A671	2435274.50	1955 Jun 16	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A672	2435275.50	1955 Jun 17	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A673	2435278.50	1955 Jun 20	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A674	2435278.50	1955 Jun 20	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A675	2435279.50	1955 Jun 21	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A676	2435279.50	1955 Jun 21	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A677	2435286.50	1955 Jun 28	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A678	2435288.50	1955 Jun 30	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A679	2435288.50	1955 Jun 30	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A680	2435293.50	1955 Jul 5	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A681	2435293.50	1955 Jul 5	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A682	2435301.50	1955 Jul 13	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A683	2435301.50	1955 Jul 13	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A684	2435306.50	1955 Jul 18	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A685	2435306.50	1955 Jul 18	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A686	2435314.50	1955 Jul 26	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A687	2435316.50	1955 Jul 28	Honest John	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1955-A471	2435365.50	1955 Sep 15	HJ Nike	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1955-A499	2435462.50	1955 Dec 21	HJ Nike	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1956-A32	2435541.50	1956 Mar 9	HJ Nike T40 T55	-	-	Test	-	-	-	WI	-	-	-	1?	-	-
1956-A46	2435572.50	1956 Apr 9	HJ Nike	-	-	Test	-	-	-	WI	-	-	-	10?	-	-
1956-A61	2435632.50	1956 Jun 8	HJ Nike Tri-Deacon T40	-	-	Test	-	-	-	WI	-	-	-	30?	-	-
1956-A69	2435659.50	1956 Jul 5	HJ Nike T40	-	-	Heat Transfer	-	-	-	WI	-	-	-	27	-	-
1956-A80	2435709.50	1956 Aug 24	HJ Nike Nike Recruit T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	1?	-	-
1956-M05	2435757.50	1956 Oct 11	HJ Nike	-	-	Polished Cone RV	-	-	-	WI	-	-	-	70?	-	-
1956-A126	2435827.50	1956 Dec 20	HJ Nike Nike Recruit T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	30?	-	-
1957-A05	2435862.50	1957 Jan 24	HJ Nike	-	-	Cone RV	-	-	-	WI	-	-	-	10	-	-
1957-A20	2435915.50	1957 Mar 18	HJ Nike Nike Recruit T55	-	-	Reentry blackout	-	-	-	WI	-	-	-	30?	-	-
1957-A22	2435938.50	1957 Apr 10	HJ Nike	-	-	Heat Transfer	-	-	-	WI	-	-	-	30?	-	-
1957-A51	2436008.50	1957 Jun 19	HJ Nike Nike Recruit T55	-	-	Copper RV	-	-	-	WI	-	-	-	30?	-	-
1957-A71	2436052.50	1957 Aug 2	HJ Nike	-	-	Flat RV	-	-	-	WI	-	-	-	10?	-	-
1957-A87	2436079.50	1957 Aug 29	HJ Nike Nike Recruit T55	-	-	Glide Rocket	-	-	-	WI	-	-	-	27	-	-
1957-A117	2436119.50	1957 Oct 8	HJ Nike Nike Recruit T55	-	-	Glide Rocket	-	-	-	WI	-	-	-	30?	-	-
1957-A123	2436136.50	1957 Oct 25	HJ Nike Nike	-	-	GE RV Model	-	-	-	WI	-	-	-	30?	-	-
1958-A04	2436226.50	1958 Jan 23	HJ Nike	-	-	Heat Transfer	-	-	-	WI	-	-	-	10?	-	-
1958-A12	2436262.50	1958 Feb 28	HJ Nike Nike	-	-	GE RV Model	-	-	-	WI	-	-	-	30?	-	-
1958-A36	2436317.50	1958 Apr 24	HJ Nike Nike Recruit T55	-	-	GE RV Model	-	-	-	WI	-	-	-	30?	-	-
1958-A43	2436339.50	1958 May 16	HJ Nike	-	-	E41 Model	-	-	-	WI	-	-	-	10?	-	-
1958-A176	2436371.50	1958 Jun 17	Improved Honest John	-	1RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-S89	2436380.50	1958 Jun 26	Exos	-	-	Model 1	-	-	-	WI	-	-	-	370	-	-
1958-A60	2436381.50	1958 Jun 27	HJ Nike Nike Recruit T55	-	-	GE RV Model	-	-	-	WI	-	-	-	30?	-	-
1958-A177	2436393.50	1958 Jul 9	Improved Honest John	-	2RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-A71	2436395.50	1958 Jul 11	Jason	-	J-A	-	-	-	-	WI	-	-	-	20?	-	-
1958-A75	2436401.50	1958 Jul 17	Jason	-	J-B	-	-	-	-	WI	-	-	-	20?	-	-
1958-A178	2436408.50	1958 Jul 24	Improved Honest John	-	3RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-S128	2436416.50	1958 Aug 1	Jason	-	J-CX	-	-	-	-	WI	-	-	-	750	-	-
1958-A179	2436421.50	1958 Aug 6	Improved Honest John	-	4RM	Warhead test	-	-	-	WS	-	-	-	2?	-	-
1958-A180	2436427.50	1958 Aug 12	Improved Honest John	-	5RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-S162	2436430.68	1958 Aug 15 0416	Jason	-	Jason 1822	-	-	-	-	CC	LC10	-	-	693	-	-
1958-A181	2436434.50	1958 Aug 19	Improved Honest John	-	Special	-	-	-	-	YUMA	-	-	-	2?	-	-
1958-S165	2436435.98	1958 Aug 20 1127	Jason	-	Jason 1841	-	-	-	-	RAMEY	-	-	-	800?	-	-
1958-A182	2436440.50	1958 Aug 25	Improved Honest John	-	6RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-A183	2436440.50	1958 Aug 25	Improved Honest John	-	7RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-S166	2436441.26	1958 Aug 25 1817	Jason	-	Jason 1859	-	-	-	-	WI	-	-	-	800?	-	-
1958-S169	2436442.65	1958 Aug 27 0333	Jason	-	Jason 1909	-	-	-	-	CC	LC10?	-	-	937	-	-
1958-S171	2436442.68	1958 Aug 27 0424	Jason	-	Jason 1914	-	-	-	-	RAMEY	-	-	-	800?	-	-
1958-S173	2436442.78	1958 Aug 27 0642	Jason	-	Jason 1917	-	-	-	-	RAMEY	-	-	-	817	-	-
1958-S174	2436442.81	1958 Aug 27 0729	Jason	-	Jason 1913 J-15	-	-	-	-	WI	-	-	-	800?	-	-
1958-S179	2436445.66	1958 Aug 30 0348	Jason	-	Jason 2019 J-16	-	-	-	-	WI	-	-	-	817	-	-
1958-S180	2436445.69	1958 Aug 30 0431	Jason	-	Jason 2022	-	-	-	-	CC	LC10?	-	-	878	-	-
1958-S181	2436445.72	1958 Aug 30 0518	Jason	-	Jason 2021 J-17	-	-	-	-	WI	-	-	-	830	-	-
1958-S182	2436445.74	1958 Aug 30 0552	Jason	-	Jason 2023	-	-	-	-	RAMEY	-	-	-	825	-	-
1958-S183	2436445.77	1958 Aug 30 0636	Jason	-	Jason 2025	-	-	-	-	CC	LC10?	-	-	699	-	-
1958-S184	2436445.81	1958 Aug 30 0721	Jason	-	Jason 2024 J-18	-	-	-	-	WI	-	-	-	815	-	-
1958-S185	2436446.42	1958 Aug 30 2202	Jason	-	Jason 2027 J-19	-	-	-	-	WI	-	-	-	745	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-S186	2436446.46	1958 Aug 30 2303	Jason	-	Jason 2026	-	-	-	-	RAMEY	-	-	-	800?	-	-
1958-S189	2436446.50	1958 Aug 31 0007	Jason	-	Jason 2020	-	-	-	-	CC	LC10?	-	-	800	-	-
1958-S190	2436449.29	1958 Sep 2 1902	Jason	-	Jason 2041	-	-	-	-	RAMEY	-	-	-	800?	-	-
1958-S191	2436449.34	1958 Sep 2 2003	Jason	-	Jason 2042 J-20	-	-	-	-	WI	-	-	-	789	-	-
1958-S192	2436449.43	1958 Sep 2 2215	Jason	-	Jason 2043	-	-	-	-	CC	LC10?	-	-	789	-	-
1958-A184	2436469.50	1958 Sep 23	Improved Honest John	-	8RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-S205	2436471.50	1958 Sep 25	Exos	-	-	Model 2	-	-	-	WI	-	-	-	460	-	-
1958-A185	2436476.50	1958 Sep 30	Improved Honest John	-	10RO	-	-	-	-	WS	-	-	-	2?	-	-
1958-A132	2436482.50	1958 Oct 6	HJ Nike Nike Recruit	-	-	Polaris RTV	-	-	-	WI	-	-	-	26	-	-
1958-A134	2436489.50	1958 Oct 13	HJ Nike Nike	-	-	E41 Model	-	-	-	WI	-	-	-	10?	-	-
1958-A140	2436513.50	1958 Nov 6	HJ	-	-	Corvus Model	-	-	-	WI	-	-	-	10?	-	-
1958-A146	2436527.50	1958 Nov 20	HJ Nike Nike Recruit T55	-	-	Telemetry test	-	-	-	WI	-	-	-	30?	-	-
1958-A165	2436554.50	1958 Dec 17	HJ Nike	-	-	-	-	-	-	WI	-	-	-	30?	-	-
1958-A166	2436555.50	1958 Dec 18	HJ	-	-	Corvus Model	-	-	-	WI	-	-	-	5?	-	-
1958-A155	2436537.50	1958 Dec?	HJ Nike Nike Recruit	-	-	Polaris RTV	-	-	-	WI	-	-	-	26	-	-
1959-A02	2436568.50	1959	HJ Nike Nike Recruit	-	-	Polaris RTV	-	-	-	WI	-	-	-	26	-	-
1959-A03	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	-	-	-	-	WI	-	-	-	25?	-	-
1959-A04	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	-	-	-	-	WI	-	-	-	25?	-	-
1959-A05	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	-	-	-	-	WI	-	-	-	25?	-	-
1959-A218	2436590.50	1959 Jan 22	Improved Honest John	-	21RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A219	2436590.50	1959 Jan 22	Improved Honest John	-	22RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A23	2436604.50	1959 Feb 5	HJ	-	-	Corvus Model	-	-	-	WI	-	-	-	5?	-	-
1959-S21	2436630.50	1959 Mar 3	Trailblazer 1	-	TB I alpha	D58	-	-	-	WI	-	-	-	260	-	-
1959-S31	2436644.50	1959 Mar 17	HJ Nike Nike 20"SM	-	-	20" SM	-	-	-	WI	-	-	-	1380	-	-
1959-A48	2436644.50	1959 Mar 17	HJ Nike Nike Recruit T55	-	-	GE Ablative RV	-	-	-	WI	-	-	-	30?	-	-
1959-A220	2436652.50	1959 Mar 25	Improved Honest John	-	E1RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A221	2436652.50	1959 Mar 25	Improved Honest John	-	E2RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A222	2436667.50	1959 Apr 9	Improved Honest John	-	E3RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A223	2436658.50	1959 Apr	Improved Honest John	-	E4RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A224	2436658.50	1959 Apr	Improved Honest John	-	E5RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A225	2436658.50	1959 Apr	Improved Honest John	-	E6RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A226	2436658.50	1959 Apr	Improved Honest John	-	E7RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A227	2436658.50	1959 Apr	Improved Honest John	-	E8RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A228	2436658.50	1959 Apr	Improved Honest John	-	E9RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A229	2436658.50	1959 Apr	Improved Honest John	-	E10RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A230	2436688.50	1959 May	Improved Honest John	-	E11RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A231	2436693.50	1959 May 5	Improved Honest John	-	E12RO	-	-	-	-	WS	-	-	-	2?	-	-
1959-A81	2436713.50	1959 May 25	HJ Nike Nike	-	-	Glide Rocket	-	-	-	WI	-	-	-	30?	-	-
1959-A84	2436715.50	1959 May 27	HJ	-	-	Corvus Model	-	-	-	WI	-	-	-	5?	-	-
1959-A232	2436721.50	1959 Jun 2	Improved Honest John	-	E13RO	XM-31E2 test	-	-	-	WS	-	-	-	2?	-	-
1959-A233	2436721.50	1959 Jun 2	Improved Honest John	-	E14RO	XM-31E2 test	-	-	-	WS	-	-	-	2?	-	-
1959-A234	2436721.50	1959 Jun 2	Improved Honest John	-	E15RM	Warhead test	-	-	-	WS	-	-	-	2?	-	-
1959-A235	2436724.50	1959 Jun 5	Improved Honest John	-	E16RO	XM-31E2 test	-	-	-	WS	-	-	-	2?	-	-
1959-A236	2436724.50	1959 Jun 5	Improved Honest John	-	E17RO	XM-31E2 test	-	-	-	WS	-	-	-	2?	-	-
1959-S82	2436724.68	1959 Jun 5 0415	Trailblazer 1	-	TB I beta	-	-	-	-	WI	-	-	-	260	-	-
1959-A237	2436738.50	1959 Jun 19	Improved Honest John	-	E18RO	Acc test	-	-	-	WS	-	-	-	2?	-	-
1959-A238	2436751.50	1959 Jul 2	Improved Honest John	-	E37RO	Acc test	-	-	-	WS	-	-	-	2?	-	-
1959-S104	2436756.97	1959 Jul 7 1115	Javelin	-	JV-1	-	-	-	-	WI	-	-	-	1045	-	-
1959-A115	2436761.50	1959 Jul 12	HJ Nike Nike Recruit T55	-	-	GE Ablative RV?	-	-	-	WI	-	-	-	30?	-	-
1959-S114	2436770.50	1959 Jul 21	Javelin	-	JV-2	-	-	-	-	WI	-	-	-	100	-	-
1959-A130	2436780.50	1959 Jul 31	HJ	-	-	Corvus Model	-	-	-	WS	-	-	-	5?	-	-
1959-A139	2436798.50	1959 Aug 18	HJ	-	-	Corvus Model	-	-	-	WS	-	-	-	5?	-	-
1959-A155	2436813.50	1959 Sep 2	HJ	-	-	Corvus Model	-	-	-	WI	-	-	-	5?	-	-
1959-A158	2436820.50	1959 Sep 9	HJ Nike Nike Recruit	-	-	Mercury model	-	-	-	WI	-	-	-	10?	-	-
1959-A176	2436863.50	1959 Oct 22	HJ	-	-	Corvus Model	-	-	-	WS	-	-	-	5?	-	-
1959-S238	2436883.00	1959 Nov 10 1200:00	Strongarm	-	OB11.01	Ion density	-	-	-	WI	-	-	-	1800	-	-
1959-A191	2436891.62	1959 Nov 19 0300	Strongarm	-	OB11.02	Ion density	-	-	-	WI	-	-	-	32?	-	-
1959-A196	2436897.50	1959 Nov 25	HJ Nike Nike Recruit T55	-	-	F131 Heat Transfer	-	-	-	WI	-	-	-	26	-	-
1959-S259	2436903.75	1959 Dec 1 0600	Trailblazer 1	-	TB I gamma	-	-	-	-	WI	-	-	-	260	-	-
1959-S276	2436924.83	1959 Dec 22 0756	Javelin	-	NASA 8.01GT	X248 test	-	-	-	WI	-	-	-	901	-	-
1960-S12	2436948.70	1960 Jan 15 0452	Javelin	-	JV-3	-	-	-	-	WI	-	-	-	1200	-	-
1960-S21	2436959.74	1960 Jan 26 0542	Javelin	-	NASA 8.02GT	X248 test	-	-	-	WI	-	-	-	951	-	-
1960-A51	2436984.22	1960 Feb 19 1718	Exos	-	CRL AA13.320C	-	-	-	-	EGL	-	-	-	37	-	-
1960-S66	2437022.50	1960 Mar 29	Trailblazer 1	-	TB Ia	D58 Trailblazer	-	-	-	WI	-	-	-	260	-	-
1960-A102	2437050.50	1960 Apr 26	HJ Nike Gosling	-	-	Porous RV	-	-	-	WI	-	-	-	43?	-	-
1960-S146	2437111.76	1960 Jun 26 0617	Trailblazer 1	-	TB Ib	D58 Trailblazer	-	-	-	WI	-	-	-	294	-	-
1960-M18	2437116.35	1960 Jun 30 2025	Javelin	-	NASA 8.07GE	Magnetic fields	-	-	-	WI	-	-	-	65	-	-
1960-S173	2437129.12	1960 Jul 13 1446:53	Strongarm	-	OB11.03	-	-	-	-	WI	-	-	-	640	-	-
1960-S174	2437129.61	1960 Jul 14 0243:24	Strongarm	-	OB11.04	-	-	-	-	WI	-	-	-	691	-	-
1960-S216	2437148.63	1960 Aug 2 0314	Strongarm	-	OB11.05	-	-	-	-	WI	-	-	-	550	-	-
1960-A188	2437149.50	1960 Aug 3	HJ Nike Nike Recruit	-	-	Glide Rocket	-	-	-	WI	-	-	-	27	-	-
1960-M23	2437159.94	1960 Aug 13 1035	HJ Nike	-	AA5.423	Firefly MARGIE	-	-	-	EGL	-	-	-	75	-	-
1960-S238	2437161.94	1960 Aug 15 1035	HJ Nike	-	AA5.424	Firefly LOLA	-	-	-	EGL	-	-	-	84	-	-
1960-S252	2437172.10	1960 Aug 25 1428	HJ Nike	-	AA5.431	Firefly ZELDA	-	-	-	EGL	-	-	-	102	-	-
1960-S255	2437175.65	1960 Aug 29 0338	Trailblazer 1	-	TB Ic	D58 Trailblazer	-	-	-	WI	-	-	-	260	-	-
1960-S256	2437175.76	1960 Aug 29 0613	Trailblazer 1	-	TB Id	D58 Trailblazer	-	-	-	WI	-	-	-	260	-	-
1960-A240	2437218.50	1960 Oct 11	HJ Nike	-	-	Glide Rocket	-	-	-	WI	-	-	-	10?	-	-
1960-A246	2437226.50	1960 Oct 19	HJ Nike Gosling	-	-	E48 Stability Test	-	-	-	WI	-	-	-	10	-	-
1960-S334	2437229.63	1960 Oct 22 0309	Trailblazer 1	-	TB Ie	D58 Trailblazer	-	-	-	WI	-	-	-	260	-	-
1960-A237	2437207.50	1960 Oct	HJ Nike Gosling	-	-	E48 Stability Test	-	-	-	WI	-	-	-	10	-	-
1960-S354	2437248.57	1960 Nov 10 0144	Javelin	-	NASA 8.04CA	Ionosphere	-	-	-	WI	-	-	-	975	-	-
1960-A284	2437269.50	1960 Dec 1	HJ Nike Nike Recruit T55	-	-	-	-	-	-	WI	-	-	-	26	-	-
1960-S399	2437279.44	1960 Dec 10 2230	Javelin	-	NASA 8.05CA	Na release	-	-	-	WI	-	-	-	716	-	-
1960-S403	2437281.44	1960 Dec 12 2236	Javelin	-	NASA 8.08GE	Magnetic fields	-	-	-	WI	-	-	-	1140	-	-
1961-S22	2437317.67	1961 Jan 18 0400	Trailblazer 1	-	TB If	D58 Trailblazer	-	-	-	WI	-	-	-	260	-	-
1961-S45	2437344.50	1961 Feb 14	Strongarm	-	E22-H1-1	Geodetic Flares	-	-	-	WI	-	-	-	100	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S53	2437348.50	1961 Feb 18	Strongarm	-	E22-H1-2	Geodetic Flares	-	-	-	WI	-	-	-	2027	-	-
1961-U02	2437410.75	1961 Apr 21 0556:20	Trailblazer 1	-	TB Ig	-	Meteor	-	-	WI	-	-	-	280	-	-
1961-S128	2437417.33	1961 Apr 27 2002	Javelin	-	NASA 8.10GI	P-21 program	-	-	-	WI	-	-	-	724	-	-
1961-S153	2437437.76	1961 May 18 0610	Trailblazer 1	-	TB Ih	-	-	-	-	WI	-	-	-	260	-	-
1961-S177	2437463.72	1961 Jun 13 0512	Javelin	-	NASA 8.09GI	P-21 program	-	-	-	WI	-	-	-	867	-	-
1961-S179	2437465.50	1961 Jun 15 0002:59	Javelin	-	NASA 8.13II	Antenna deploy test	-	-	-	WI	-	-	-	901	-	-
1961-S187	2437475.47	1961 Jun 24 2317	Javelin	-	NASA 8.15AI	S-48 Topside Sounder	-	-	-	WI	-	-	-	1018	-	-
1961-M20	2437507.99	1961 Jul 27 1145	Strongarm	1	CRL AA11.501	CWAS	-	-	-	WS	-	-	-	75	-	-
1961-S235	2437523.10	1961 Aug 11 1430	Exos	-	CRL AA13.194	Ion density	-	-	-	EGL	-	-	-	114	-	-
1961-S282	2437555.90	1961 Sep 13 0932	Javelin	-	NASA 8.06CA	Na release	-	-	-	WI	-	-	-	331	-	-
1961-S283	2437556.50	1961 Sep 13 2353	Javelin	-	NASA 8.22CA	Na release	-	-	-	WI	-	-	-	431	-	-
1961-S289	2437559.70	1961 Sep 17 0447	Trailblazer 1	-	TB Ii	-	-	-	-	WI	-	-	-	260	-	-
1961-S329	2437583.24	1961 Oct 10 1740	Javelin	-	NASA 8.23GA	-	-	-	-	WI	-	-	-	1544	-	-
1961-S333	2437586.68	1961 Oct 14 0426	Javelin	-	NASA 8.17AI	Topside Sounder	-	-	-	WI	-	-	-	1055	-	-
1961-S381	2437621.17	1961 Nov 17 1606	Javelin	-	-	-	-	-	-	WI	-	-	-	610	-	-
1962-S35	2437702.99	1962 Feb 7 1150	Javelin	-	NASA 8.16AI	-	-	-	-	WI	-	-	-	960	-	-
1962-S86	2437757.71	1962 Apr 3 0457	Trailblazer 1	-	TB Ij	-	-	-	-	WI	-	-	-	260	-	-
1962-S124	2437788.33	1962 May 3 2000	Javelin	-	NASA 8.21GI	ELF electron trap	-	-	-	WI	-	-	-	845	-	-
1962-S228	2437854.87	1962 Jul 9 0850	Javelin	-	Project 6.4/J1	STARFISH Diag	-	-	-	JI	Pad 19	-	-	325?	-	-
1962-A107	2437854.87	1962 Jul 9 0858:30	HJ Nike	-	Project 6.3/X-3	STARFISH Rad X-3	-	-	-	JI	Pad 6	-	-	0?	-	-
1962-S236	2437854.88	1962 Jul 9 0907:00	HJ Nike	-	Project 6.3/X-4	STARFISH Rad X-4	-	-	-	JI	Pad 18	-	-	89?	-	-
1962-S229	2437854.88	1962 Jul 9 0907:00	Javelin	-	Project 6.4/J2	STARFISH Diag.	-	-	-	JI	Pad 22	-	-	500?	-	-
1962-S623	2437854.89	1962 Jul 9 0916	Javelin	-	Project 6.4	STARFISH Diag.	-	-	-	JI	Pad 17	-	-	500?	-	-
1962-S624	2437854.89	1962 Jul 9 0920:12	Javelin	-	Project 6.2	STARFISH Diag.	-	-	-	JI	Pad 5	-	-	640?	-	-
1962-S625	2437854.90	1962 Jul 9 0940	Javelin	-	Project 6.2	STARFISH Diag.	-	-	-	JI	Pad 4	-	-	640?	-	-
1962-S254	2437868.50	1962 Jul 23	Javelin	-	-	-	-	-	-	JI	-	-	-	500?	-	-
1962-S270	2437873.62	1962 Jul 28 0250	Trailblazer 1	-	TB Ik	-	-	-	-	WI	-	-	-	280?	-	-
1962-S277	2437880.24	1962 Aug 3 1746	Exos	-	-	Bipolar Probe	-	-	-	EGL	-	-	-	365	-	-
1962-S383	2437948.50	1962 Oct 11	HJ Nike	?	-	-	-	-	-	KAU	-	-	-	100?	-	-
1962-S408	2437958.50	1962 Oct 21	HJ Nike	?	-	-	-	-	-	KAU	-	-	-	100?	-	-
1962-S417	2437961.30	1962 Oct 23 1910:00	HJ Nike Nike	-	AC20.463	Firefly III ETHEL	-	-	-	EGL	Pad 1	-	-	159	-	-
1962-S420	2437962.75	1962 Oct 25 0600	Exos	-	CRL AA13.195	-	-	-	-	EGL	-	-	-	669	-	-
1962-S429	2437963.92	1962 Oct 26 0958	HJ Nike	-	X-11	-	-	-	-	JI	-	-	-	100?	-	-
1962-S430	2437963.92	1962 Oct 26 1005	HJ Nike	-	X-12	-	-	-	-	JI	-	-	-	100?	-	-
1962-S431	2437963.92	1962 Oct 26 1011	HJ Nike	-	X-14	-	-	-	-	JI	-	-	-	100?	-	-
1962-S433	2437963.93	1962 Oct 26 1022	HJ Nike	-	X-17	-	-	-	-	JI	-	-	-	100?	-	-
1962-S425	2437963.50	1962 Oct 26	Javelin	-	-	Mass spectrometer	-	-	-	JI	-	-	-	500?	-	-
1962-S438	2437966.50	1962 Oct 29	HJ Nike	?	-	-	-	-	-	KAU	-	-	-	100?	-	-
1962-S451	2437969.48	1962 Oct 31 2332:00	HJ Nike Nike	-	AC20.461	Firefly III HAZEL	-	-	-	EGL	Pad 1	-	-	100?	-	-
1962-S454	2437970.01	1962 Nov 1 1208	HJ Nike	-	X-20	Electron density	-	-	-	JI	-	-	-	96	-	-
1962-S455	2437970.01	1962 Nov 1 1216	HJ Nike	-	X-24	Electron density	-	-	-	JI	-	-	-	100?	-	-
1962-S457	2437970.02	1962 Nov 1 1224	HJ Nike	-	X-27	Electron density	-	-	-	JI	-	-	-	100?	-	-
1962-S458	2437970.03	1962 Nov 1 1240	HJ Nike	-	X-28	Electron density	-	-	-	JI	-	-	-	100?	-	-
1962-S459	2437970.69	1962 Nov 2 0427:59	HJ Nike Nike	-	AC20.462	Firefly III LISA	-	-	-	EGL	Pad 1	-	-	170?	-	-
1962-S491	2437995.50	1962 Nov 27	Javelin	-	-	RPA	-	-	-	JI	-	-	-	500?	-	-
1962-S496	2437996.50	1962 Nov 28 0000	HJ Nike Nike	-	AC20.454	Firefly III MABEL	-	-	-	EGL	Pad 1	-	-	121	-	-
1962-S526	2438002.70	1962 Dec 4 0445:00	HJ Nike Nike	-	AC20.455	Firefly III DINAH	-	-	-	EGL	Pad 1	-	-	115	-	-
1962-S532	2438003.58	1962 Dec 5 0151:00	HJ Nike Nike	-	AC20.460	Firefly III PATSY	-	-	-	EGL	Pad 1	-	-	150?	-	-
1962-S539	2438004.93	1962 Dec 6 1021	HJ Nike Nike	-	AC20.459	Firefly III EVA	-	-	-	EGL	Pad 1	-	-	89	-	-
1962-S558	2438011.49	1962 Dec 12 2346	HJ Nike Nike	-	AC20.456	Firefly III NETTY	-	-	-	EGL	Pad 1	-	-	101	-	-
1962-S566	2438013.49	1962 Dec 14 2352	HJ Nike Nike	-	AC20.458	Firefly III OLGA	-	-	-	EGL	Pad 1	-	-	90	-	-
1962-A262	2438017.27	1962 Dec 18 1830	HJ Nike	-	-	Cree PDTP 1	-	-	-	EGL	-	-	-	43	-	-
1963-A02	2438029.50	1963?	HJ PRV	-	-	Cork reentry test	-	-	-	WI	-	-	-	22	-	-
1963-A233	2438068.05	1963 Feb 7 1311	HJ Nike	-	-	Cree PDTP 2	-	-	-	EGL	-	-	-	64	-	-
1963-S54	2438076.50	1963 Feb 16	Trailblazer 1	-	TB Il	Trailblazer Il	-	-	-	WI	-	-	-	280?	-	-
1963-A234	2438082.05	1963 Feb 21 1310	HJ Nike	-	-	Cree PDTP 3	-	-	-	EGL	-	-	-	52	-	-
1963-A191	2438106.50	1963 Mar 18	HJ PRV	-	-	Hypervelocity test	-	-	-	WI	-	-	-	24	-	-
1963-S680	2438111.50	1963 Mar 23	Trailblazer 1	-	TB Im	Trailblazer Im	-	-	-	WI	-	-	-	280?	-	-
1963-A192	2438156.50	1963 May 7	HJ PRV	-	-	Hypervelocity test	-	-	-	WI	-	-	-	24	-	-
1963-S658	2438131.39	1963 Apr 11 2121	HJ Nike Nike	-	-	Cree PDTP 6	-	-	-	EGL	-	-	-	113	-	-
1963-A235	2438170.23	1963 May 20 1730	HJ Nike	-	-	Cree PDTP 7	-	-	-	EGL	-	-	-	13	-	-
1963-S240	2438175.73	1963 May 26 0534:00	HJ Nike	-	Sandia	Sampler	-	-	-	KAU	-	-	-	103	-	-
1963-S659	2438208.34	1963 Jun 27 2003	HJ Nike Nike	-	-	Cree PDTP 8	-	-	-	EGL	-	-	-	86	-	-
1963-S322	2438213.10	1963 Jul 2 1418	Javelin	-	NASA 8.14GI	Topside sounder	-	-	-	WI	-	-	-	934	-	-
1963-S355	2438236.44	1963 Jul 25 2238	Exos	-	CRL AC13.831	Refractive Index	-	-	-	EGL	-	-	-	623	-	-
1963-A229	2438242.23	1963 Jul 31 1730	HJ Nike Nike	-	-	Cree PDTP 9	-	-	-	EGL	-	-	-	1	-	-
1963-S660	2438257.21	1963 Aug 15 1701	HJ Nike Nike	-	-	Cree PDTP 10	-	-	-	EGL	-	-	-	91	-	-
1963-S661	2438263.34	1963 Aug 21 2007	HJ Nike Nike	-	-	Cree PDTP 11	-	-	-	EGL	-	-	-	114	-	-
1963-A124	2438276.23	1963 Sep 3 1737	HJ Nike	-	-	Cree PDTP 12	-	-	-	EGL	-	-	-	64	-	-
1963-S662	2438285.00	1963 Sep 12 1154	HJ Nike	-	-	Cree PDTP 13	-	-	-	EGL	-	-	-	92	-	-
1963-S468	2438301.61	1963 Sep 29 0237	Javelin	-	NASA 8.18GI	Topside sounder	-	-	-	WI	-	-	-	1037	-	-
1963-S559	2438351.50	1963 Nov 18	HJ Nike Nike	-	HAD-1	LRL HAD-1	-	-	-	PA	LC-A	-	-	163	-	-
1964-S39	2438411.71	1964 Jan 17 0501	Javelin	-	NASA 8.31DA	Composition/Airglow	-	-	-	WI	-	-	-	925	-	-
1964-A19	2438431.50	1964 Feb 6	HJ Nike Nike	-	HAD-2	LRL HAD-2	-	-	-	PA	LC-A	-	-	5	-	-
1964-S149	2438468.50	1964 Mar 14	HJ Nike Nike	-	HAD-3	LRL HAD-3	-	-	-	PA	LC-A	-	-	143	-	-
1964-S210	2438501.48	1964 Apr 15 2325	Javelin	-	NASA 12.03GT/GI	X-258 Test	-	-	-	WI	-	-	-	727	-	-
1964-A214	2438555.08	1964 Jun 8 1354	HJ Nike	-	ADDPEP TB-1A	Textile Ballute 1A	-	-	-	EGL	-	-	-	33	-	-
1964-A215	2438605.10	1964 Jul 28 1430	HJ Nike	-	ADDPEP TB-1B	Textile Ballute 1B	-	-	-	EGL	-	-	-	28	-	-
1964-A216	2438625.28	1964 Aug 17 1839	HJ Nike Nike	-	ADDPEP TB-2	Textile Ballute 2	-	-	-	EGL	-	-	-	52	-	-
1964-S509	2438676.66	1964 Oct 8 0352	Javelin	-	NASA 8.03CA/CI	Ion composition	-	-	-	WI	-	-	-	1004	-	-
1964-S531	2438688.15	1964 Oct 19 1542	Javelin	-	NASA 8.24GI-II	Japan-US Ionos 6	-	-	-	WI	-	-	-	840	-	-
1964-S537	2438692.17	1964 Oct 23 1600	Javelin	-	NASA 8.33GR	RAE development	-	-	-	WI	-	-	-	1100	-	-
1964-S583	2438705.29	1964 Nov 5 1903	Javelin	-	NASA 8.34CA	JHU Airglow 7	-	-	-	WI	-	-	-	867	-	-
1964-S585	2438705.36	1964 Nov 5 2039	Javelin	-	NASA 8.19DI	Ionos/B field	-	-	-	FC	-	-	-	840	-	-
1964-S600	2438706.72	1964 Nov 7 0514	Javelin	-	NASA 8.20DI	Ionos/B field	-	-	-	FC	-	-	-	714	-	-
1964-S653	2438729.50	1964 Nov 30	HJ Nike Nike	-	Sandia 152-13	LRL Payload Test	-	-	-	KAU	-	-	-	168	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S35	2438774.22	1965 Jan 13 1712	Javelin	-	NASA 8.28UI	M/DTR 1	-	-	-	WI	-	-	-	1006	-	-
1965-S132	2438824.27	1965 Mar 4 1832	HJ Nike Nike	-	Sandia 152-16	LRL Payload Test	-	-	-	KAU	-	-	-	181	-	-
1965-S300	2438900.34	1965 May 19 2011:00	Javelin	-	NASA 8.29UI	M/DTR 2	-	-	-	WI	-	-	-	947	-	-
1965-S310	2438906.47	1965 May 25 2320	Exos	-	CRL AD13.815	EM Absorption	-	-	-	EGL	-	-	-	488	-	-
1965-S316	2438907.29	1965 May 26 1901	Javelin	-	NASA 8.37GI	-	-	-	-	WI	-	-	-	320	-	-
1965-S317	2438907.47	1965 May 26 2320	Exos	-	CRL AD13.812	EM Absorption	-	-	-	EGL	-	-	-	488	-	-
1965-S345	2438918.24	1965 Jun 6 1745	HJ Nike	?	-	DASA D6.4	-	-	-	EGL	-	-	-	100?	-	-
1965-S353	2438924.14	1965 Jun 12 1515	HJ Nike Nike	-	Sandia 152-80	LRL BOX-1	-	-	-	KAU	-	-	-	172	-	-
1965-S364	2438929.84	1965 Jun 18 0806:00	HJ Nike	?	-	-	Sandia TMA?	-	-	KAU	-	-	-	100?	-	-
1965-A237	2438930.14	1965 Jun 18 1517	HJ Nike Nike	-	ADDPEP TB-3	Textile Ballute 3	-	-	-	EGL	-	-	-	55?	-	-
1965-S370	2438933.75	1965 Jun 22 0600:00	HJ Nike	?	-	-	Sandia Falling Sphere?	-	-	KAU	-	-	-	100?	-	-
1965-S388	2438935.75	1965 Jun 24 0607:00	HJ Nike	?	-	-	Sandia Chaff?	-	-	KAU	-	-	-	100?	-	-
1965-S391	2438941.24	1965 Jun 29 1745	HJ Nike Javelin	-	DASA 6.4	-	-	-	-	EGL	-	-	-	300?	-	-
1965-S478	2438998.27	1965 Aug 25 1831	Javelin	-	NASA 8.11UA	He ionization	-	-	-	WI	-	-	-	902	-	-
1965-S508	2439027.11	1965 Sep 23 1436	Javelin	-	NASA 8.36GI	Alouette underflight	-	-	-	WI	-	-	-	805	-	-
1965-S540	2439038.53	1965 Oct 5 0042	Javelin	-	NASA 8.30UI	M/DTR 3	-	-	-	WI	-	-	-	960	-	-
1965-A143	2439043.56	1965 Oct 10 0125	Javelin	-	NASA 8.42UI	M/DTR 4	-	-	-	WI	-	-	-	32	-	-
1965-A146	2439048.50	1965 Oct 15	HJ PRV	-	Pacemaker	Apollo ablator test	-	-	-	WI	-	-	-	23	-	-
1965-S591	2439067.33	1965 Nov 2 2000	Exos	-	CRL AE13.559	IQSY Sphere	-	-	-	EGL	-	-	-	686	-	-
1965-S794	2439080.50	1965 Nov 16	HJ Nike Nike	-	Sandia?	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1965-S602	2439073.50	1965 Nov 9	HJ Nike Hydac	-	-	-	-	-	-	EGL	-	-	-	521	-	-
1965-S619	2439081.46	1965 Nov 16 2300	HJ Nike Nike	-	Sandia 152-90	LRL RCS-1	-	-	-	KAU	-	-	-	183	-	-
1965-A232	2439085.06	1965 Nov 20 1330	HJ Nike	-	-	-	-	-	-	EGL	-	-	-	1?	-	-
1966-S146	2439187.25	1966 Mar 2 1759	Javelin	-	NASA 8.25GA-GI	Geoprobe	-	-	-	WI	-	-	-	536	-	-
1966-S244	2439246.72	1966 May 1 0517	Javelin	-	CRL AD19.286	B/p/e	-	-	-	FC	-	-	-	710	-	-
1966-M18	2439257.47	1966 May 11 2320	HJ Nike Nike	-	Sandia 152-81	LRL ROX-1	-	-	-	KAU	-	-	-	80	-	-
1966-S272	2439266.29	1966 May 20 1904	Javelin	-	NASA 8.44GR	RAE development	-	-	-	WI	-	-	-	998	-	-
1966-S367	2439319.38	1966 Jul 12 2100	Javelin	-	NASA 8.12UA	EUV Airglow	-	-	-	WI	-	-	-	1015	-	-
1966-S347	2439305.18	1966 Jun 28 1623	Javelin	-	CRL AC19.191	Pulse Phase Delay	-	-	-	WI	-	-	-	546	-	-
1966-S402	2439335.29	1966 Jul 28 1900	HJ Nike Nike	-	Sandia 152-44	LRL RCS-2 (Daisy 2)	-	-	-	KAU	-	-	-	173	-	-
1966-S403	2439337.50	1966 Aug	HJ Nike Hydac	-	-	-	-	-	-	EGL	-	-	-	544	-	-
1966-S440	2439353.27	1966 Aug 15 1828	Javelin	-	NASA 8.32DA	Composition	-	-	-	WI	-	-	-	698	-	-
1966-S503	2439392.88	1966 Sep 24 0913	Javelin	-	NASA 8.27IA	MPE Ba	-	-	-	WI	-	-	-	930	-	-
1966-S532	2439405.35	1966 Oct 6 2029	Javelin	-	NASA 8.38GI	-	-	-	-	WI	-	-	-	650	-	-
1966-A127	2439429.50	1966 Oct 31	HJ PRV	-	Pacemaker	Apollo ablator test	-	-	-	WI	-	-	-	23	-	-
1966-A135	2439434.50	1966 Nov 5	HJ Nike	-	PEPP [F1]	Voyager parachute	-	-	-	WS	-	-	-	32	-	-
1966-A140	2439450.50	1966 Nov 21	HJ Nike	-	PEPP [F2]	-	-	-	-	WS	-	-	-	37	-	-
1966-A143	2439454.07	1966 Nov 24 1345	HJ Nike	-	PEPP 02 [F2]	31.2-ft Ringsail	[error for Nov 21?]	-	-	WS	-	-	-	39	-	-
1966-A151	2439470.22	1966 Dec 10 1712	HJ Nike	-	PEPP [F3]	30-ft DGP Para	-	-	-	WS	-	-	-	40	-	-
1967-A01	2439490.50	1967 Jan	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1967-S119	2439530.76	1967 Feb 9 0616	Javelin	-	NASA 8.41UE	Rice auroral	-	-	-	FC	-	-	-	752	-	-
1967-A54	2439549.50	1967 Feb 28	HJ Nike	-	PEPP	-	-	-	-	WS	-	-	-	40?	-	-
1967-S165	2439567.74	1967 Mar 18 0547	Javelin	-	NASA 8.47UE	Rice TWINS 1 auroral	-	-	-	FC	-	-	-	794	-	-
1967-S209	2439592.72	1967 Apr 12 0522	Javelin	-	NASA 8.39GI	ISIS test/overflight	-	-	-	FC	-	-	-	870	-	-
1967-A78	2439620.24	1967 May 9 1745	HJ Nike	-	PEPP 05	40-ft Ringsail	-	-	-	WS	-	-	-	48	-	-
1967-S262	2439628.37	1967 May 17 2058	Javelin	-	NASA 8.43UA	Ion density/Compos.	-	-	-	WI	-	-	-	1006	-	-
1967-S304	2439657.94	1967 Jun 16 1037	Javelin	-	NASA 8.49IE	GRS Test	-	-	-	CLBI	-	-	-	1100	-	-
1967-S305	2439658.85	1967 Jun 17 0830	Javelin	-	NASA 8.50IE	GRS Test	-	-	-	CLBI	-	-	-	991	-	-
1967-A92	2439662.16	1967 Jun 20 1545	HJ Nike	-	PEPP 04 [F6]	30-ft Cross Para	-	-	-	WS	-	-	-	45?	-	-
1967-S310	2439663.29	1967 Jun 21 1902	Javelin	-	NASA 8.26UI	ISIS overflight	-	-	-	WI	-	-	-	792	-	-
1967-A113	2439753.15	1967 Sep 19 1532	HJ Nike Nike	-	PEPP/SPED-I	40-ft DGB Para	-	-	-	WS	-	-	-	45?	-	-
1967-A114	2439733.50	1967 Sep	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1967-S447	2439754.82	1967 Sep 21 0738	Javelin	-	NASA 8.45UI	-	-	-	-	WI	-	-	-	768	-	-
1967-A121	2439781.24	1967 Oct 17 1745	HJ Nike Nike	-	PEPP/SPED-I	-	-	-	-	WS	-	-	-	55?	-	-
1967-A132	2439794.50	1967 Nov	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1967-S573	2439832.54	1967 Dec 8 0100	Javelin	-	NASA 8.35UI	Ion-proton transit'n	-	-	-	FC	-	-	-	805	-	-
1968-M01	2439855.50	1968?	HJ Nike Nike	?	-	4-ft Ballute test	-	-	-	WS?	-	-	-	73	-	-
1968-A65	2439915.50	1968 Mar	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1968-S163	2439917.71	1968 Mar 2 0500	Javelin	-	NASA 8.48UE	Rice TWINS 2 auroral	-	-	-	FC	-	-	-	805	-	-
1968-S260	2439956.39	1968 Apr 9 2126	Javelin	-	NASA 8.40UA	EUV Dayglow	-	-	-	WI	-	-	-	856	-	-
1968-S349	2440001.72	1968 May 25 0519	Javelin	-	NASA 8.46UI	VLF radio noise	-	-	-	FC	-	-	-	805	-	-
1968-A119	2440035.19	1968 Jun 27 1637	HJ PRV	-	Pacemaker 7	Phenolic ny. ablator	-	-	-	WI	-	-	-	30?	-	-
1968-A101	2440129.50	1968 Oct	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1968-A102	2440129.50	1968 Oct	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1968-M24	2440153.15	1968 Oct 23 1532	HJ Nike Nike	-	PEPP/SHAPE	40-ft DBG Para	-	-	-	WS	-	-	-	53	-	-
1968-S576	2440169.87	1968 Nov 9 0855	Javelin	-	CRL AB19.287	P/F	-	-	-	FC	-	-	-	592	-	-
1968-S639	2440201.22	1968 Dec 10 1716	Javelin	-	NASA 8.51UA	He ionization	-	-	-	FC	-	-	-	837	-	-
1968-M28	2440201.50	1968 Dec 11	HJ Nike Nike	-	PEPP	SHAPE Parachute test	-	-	-	WS	-	-	-	53	-	-
1969-S192	2440295.71	1969 Mar 15 0506	HJ Nike Hydac	-	SECEDE R6	SECEDE III FIR	-	-	-	PF	-	-	-	165	-	-
1969-S203	2440298.72	1969 Mar 18 0517	HJ Nike Hydac	-	SECEDE R7	SECEDE III GUM	-	-	-	PF	-	-	-	168	-	-
1969-S330	2440357.66	1969 May 16 0353	Javelin	-	CRL AC19.289	B field	-	-	-	FC	-	-	-	789	-	-
1969-S352	2440371.87	1969 May 30 0851	Javelin	-	CRL AF19.291	B field	-	-	-	FC	-	-	-	825	-	-
1969-A94	2440391.18	1969 Jun 18 1617	HJ Nike Nike	-	PEPP	40-ft Ringsail Para	-	-	-	WS	-	-	-	40?	-	-
1969-S382	2440399.27	1969 Jun 26 1830	Javelin	-	NASA 8.53UI	-	-	-	-	CLBI	-	-	-	795	-	-
1969-S786	2440399.40	1969 Jun 26 2141	HJ Nike Hydac	-	-	-	-	-	-	EGL	-	-	-	384	-	-
1969-A110	2440402.50	1969 Jul	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1969-A111	2440402.50	1969 Jul	HJ Nike	?	DASA 6.1	-	-	-	-	WS	-	-	-	40?	-	-
1969-A212	2440413.23	1969 Jul 10 1730	HJ PRV	-	Pacemaker	Carbon phen. ablator	-	-	-	WI	-	-	-	20	-	-
1969-A211	2440571.50	1969 Dec 16	HJ Nike Nike	-	PEPP	40-ft DGB Para	-	-	-	WS	-	-	-	40?	-	-
1970-S85	2440613.44	1970 Jan 26 2230	Javelin	-	N-J-19	DLR N-J-19	-	-	-	CLBI	-	-	-	800?	-	-
1970-S91	2440617.44	1970 Jan 30 2230	Javelin	-	N-J-20	DLR N-J-20	-	-	-	CLBI	-	-	-	800?	-	-
1970-S125	2440635.82	1970 Feb 18 0734	Javelin	-	NASA 8.55UE	Auroral substorm	-	-	-	FC	-	-	-	494	-	-
1970-S220	2440653.28	1970 Mar 7 1847	Javelin	-	NASA 8.57CE	-	-	-	-	WI	-	-	-	829	-	-
1970-S280	2440679.71	1970 Apr 3 0459	Javelin	-	NASA 8.56UE	Auroral substorm	-	-	-	FC	-	-	-	557	-	-
1970-A73	2440758.22	1970 Jun 20 1715	HJ Nike Nike	-	PEPP/SHAPE	40-ft Reefed DGB	-	-	-	WS	-	-	-	44	-	-
1970-S501	2440831.34	1970 Sep 1 2010	Javelin	-	NASA 8.52UA	-	-	-	-	WI	-	-	-	800?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S552	2440864.88	1970 Oct 5 0905	Javelin	-	NASA 8.58IE	MPE Ba	-	-	-	WI	-	-	-	900	-	-
1971-S341	2441127.86	1971 Jun 25 0844	Javelin	-	NASA 8.59AI	NOAA Ionos Sounder	-	-	-	WI	-	-	-	660	-	-
1972-S72	2441358.21	1972 Feb 10 1702	Javelin	-	NASA 8.60AE	Composition	-	-	-	WI	-	-	-	851	-	-
1972-S303	2441572.73	1972 Sep 12 0531	Javelin	-	NASA 8.62GE	Auroral substorm	-	-	-	FC	-	-	-	718?	-	-
1973-S239	2441881.43	1973 Jul 17 2213	Javelin	-	NASA 8.61UA	-	-	-	-	WI	-	-	-	724	-	-
1973-S395	2442005.39	1973 Nov 18 2122	Javelin	-	NASA 8.63UI-II	-	-	-	-	CLBI	-	-	-	650	-	-
1973-S403	2442009.40	1973 Nov 22 2129	Javelin	-	NASA 8.64UI-II	-	-	-	-	CLBI	-	-	-	650	-	-
1974-S403	2442388.50	1974 Dec 7	HJ Nike Hydac	-	-	HAVE JEEP II A?	-	-	-	KMR	-	-	-	500?	-	-
1974-S442	2442381.50	1974 Dec	HJ Nike Hydac	-	-	HAVE JEEP II B?	-	-	-	KMR	-	-	-	500?	-	-
1974-S443	2442381.50	1974 Dec	HJ Nike Hydac	-	-	HAVE JEEP II C?	-	-	-	KMR	-	-	-	500?	-	-
1975-S70	2442454.60	1975 Feb 11 0216:56	Javelin	-	NASA 8.65UE	-	-	-	-	FC	-	-	-	791	-	-
1975-S98	2442482.77	1975 Mar 11 0633:09	HJ Nike Javelin	-	DNA IC511.21-1A	ICECAP	-	-	-	PF	-	-	-	183	-	-
1975-A35	2442567.50	1975 Jun 4	HJ	-	-	-	-	-	-	TTR	-	-	-	10?	-	-
1975-A49	2442651.50	1975 Aug 27	HJ	-	-	-	-	-	-	TTR	-	-	-	10?	-	-
1976-S158	2442869.89	1976 Apr 1 0928:20	HJ Hydac	-	ARPA WS650.27-1	Ballistics	-	-	-	PF	-	-	-	150?	-	-
1976-A44	2442977.56	1976 Jul 18 0123	Javelin	-	NASA 12.1776GT	Chem Release test	-	-	-	WI	-	-	-	25	-	-
1976-S233	2442988.50	1976 Jul 29	HJ Nike Hydac	-	HAVE JEEP IV-1	-	-	-	-	KMR	-	-	-	500?	-	-
1976-S323	2443095.94	1976 Nov 13 1031:30	HJ Nike Hydac	-	ARPA WS614.51-3	WIDEBAND	-	-	-	PF	-	-	-	500?	-	-
1976-S337	2443108.93	1976 Nov 26 1025:40	HJ Nike Hydac	-	ARPA WS614.51-4	WIDEBAND	-	-	-	PF	-	-	-	500?	-	-
1976-S365	2443114.46	1976 Dec 1 2308:37	HJ Hydac	-	DNA ST610.31-1	STRESS ANNE	-	-	-	EGL	A-15A Pad 3	-	-	180?	-	-
1977-S93	2443201.49	1977 Feb 26 2349:33	HJ Hydac	-	DNA ST710.31-2	STRESS BETTY	-	-	-	EGL	A-15A Pad 3	-	-	179?	-	-
1977-S95	2443205.49	1977 Mar 2 2351:00	HJ Hydac	-	DNA ST710.31-3	STRESS CAROLYN	-	-	-	EGL	A-15A Pad 3	-	-	191?	-	-
1977-S101	2443210.50	1977 Mar 7 2358:00	HJ Hydac	-	DNA ST710.31-4	STRESS DIANNE	-	-	-	EGL	A-15A Pad 3	-	-	186?	-	-
1977-S107	2443216.46	1977 Mar 13 2258:00	HJ Hydac	-	DNA ST710.31-5	STRESS ESTHER	-	-	-	EGL	A-15A Pad 3	-	-	189?	-	-
1977-S109	2443217.45	1977 Mar 14 2243:00	HJ Hydac	-	DNA ST710.31-6	STRESS FERN	-	-	-	EGL	A-15A Pad 3	-	-	186?	-	-
1977-S194	2443301.44	1977 Jun 6 2234	HJ Javelin	-	TE720.93-1	Ballistics	-	-	-	PF	-	-	-	300?	-	-
1977-S216	2443344.29	1977 Jul 19 1900	Taurus Orion	-	NASA 12.1001WT	-	-	-	-	WI	-	-	-	240	-	-
1977-S222	2443353.50	1977 Jul 29	HJ Nike Hydac	-	SRK-11	HAVE JEEP IV	-	-	-	KMR	RN	-	-	500?	-	-
1977-S282	2443462.94	1977 Nov 15 1033:40	HJ Hydac	-	ARPA WS710.51-1	WIDEBAND	-	-	-	PF	-	-	-	170?	-	-
1977-S293	2443480.32	1977 Dec 2 1934	Taurus Orion	-	NASA 12.1002WT	-	-	-	-	WI	-	-	-	247	-	-
1978-S86	2443569.30	1978 Mar 1 1906	HJ Hydac	-	ARPA WS810.51-2	WIDEBAND	-	-	-	PF	-	-	-	170?	-	-
1978-S92	2443580.69	1978 Mar 13 0440	Taurus Orion	-	NASA 33.01UA	EUV airglow	-	-	-	FC	-	-	-	204	-	-
1978-S94	2443580.83	1978 Mar 13 0750	Taurus Orion	-	NASA 33.02GA	Auroral UV	-	-	-	FC	-	-	-	186	-	-
1978-S224	2443813.32	1978 Oct 31 1947	Taurus Tomahawk	-	NASA 12.1005WT	-	-	-	-	WI	-	-	-	554	-	-
1979-S74	2443931.20	1979 Feb 26 1653:30	Taurus Orion	-	NASA 33.04UE	-	-	-	-	RLAKE	CHK	-	-	200?	-	-
1979-S75	2443931.20	1979 Feb 26 1653:45	Taurus Orion	-	NASA 33.03UA	-	-	-	-	RLAKE	CHK	-	-	200?	-	-
1979-S104	2443956.96	1979 Mar 24 1104:40	Taurus Tomahawk	-	NASA 12.1003UE	-	-	-	-	PF	-	-	-	500?	-	-
1979-S110	2443964.94	1979 Apr 1 1031:41	Taurus Tomahawk	-	NASA 12.1004UE	-	-	-	-	PF	-	-	-	500?	-	-
1979-S238	2444185.50	1979 Nov 8	Taurus Orion	-	NASA 33.08UL	-	-	-	-	WS	LC36	-	-	200?	-	-
1980-A58	2444238.50	1980 Jan?	HJ	-	Five Fuze Test	-	-	-	-	TTR	-	-	-	10?	-	-
1980-S66	2444315.00	1980 Mar 16 1155:39	Taurus Tomahawk	-	NASA 34.03UE	KING CRAB	-	-	-	PF	-	-	-	571	-	-
1980-S67	2444317.83	1980 Mar 19 0759:37	Taurus Tomahawk	-	NASA 34.01UE	-	-	-	-	PF	-	-	-	596	-	-
1980-S70	2444320.98	1980 Mar 22 1136:37	Taurus Tomahawk	-	NASA 34.02UE	-	-	-	-	PF	-	-	-	618	-	-
1980-S147	2444449.29	1980 Jul 28 1900	Taurus Orion	-	NASA 33.13UE	-	-	-	-	WI	-	-	-	229	-	-
1980-S148	2444452.01	1980 Jul 31 1218	HJ Orion	-	NASA 33.14GE	E-Field M/DTR	-	-	-	WI	-	-	-	111	-	-
1980-S150	2444465.58	1980 Aug 14 0202	Taurus Orion	-	NASA 33.05UA	-	-	-	-	WS	LC36	-	-	192	-	-
1980-S169	2444497.50	1980 Sep 15	Taurus Orion	-	NASA 33.06GU?	-	-	-	-	WS	LC36	-	-	200?	-	-
1980-S180	2444519.65	1980 Oct 7 0337:42	HJ Orion	-	NASA 33.15GE	E-Field (MAE)	-	-	-	AND	-	-	-	122	-	-
1980-S182	2444521.28	1980 Oct 8 1839	Taurus Orion	-	NASA 33.07UL	-	-	-	-	WS	LC36	-	-	200	-	-
1980-S183	2444524.42	1980 Oct 11 2157:54	HJ Orion	-	NASA 33.16GE	E-Field (MAE)	-	-	-	AND	-	-	-	120	-	-
1980-S189	2444530.59	1980 Oct 18 0208:14	HJ Orion	-	NASA 33.17GE	E-Field (MAE)	-	-	-	AND	-	-	-	117	-	-
1980-S202	2444559.64	1980 Nov 16 0316:00	Taurus Orion	-	A13.073	ENERGY B	-	-	-	AND	-	-	-	195	-	-
1980-S206	2444559.66	1980 Nov 16 0349:40	Taurus Orion	-	NASA 33.10UE	EBC-B E11a	-	-	-	ESR	MRL?	-	-	180	-	-
1980-S207	2444559.68	1980 Nov 16 0415:00	Taurus Orion	-	NASA 33.11UE	EBC-B E11b	-	-	-	ESR	MRL?	-	-	181	-	-
1980-S218	2444574.49	1980 Nov 30 2344:30	Taurus Orion	-	NASA 33.09UE	EBC-A2 E11a	-	-	-	ESR	MRL?	-	-	171	-	-
1981-S77	2444670.84	1981 Mar 7 0809	Taurus Orion	-	A13.30	AURORAL E1	-	-	-	PF	-	-	-	156	-	-
1981-S78	2444670.84	1981 Mar 7 0809	Taurus Orion	-	A13.20	AURORAL E3	-	-	-	PF	-	-	-	203	-	-
1981-S79	2444670.85	1981 Mar 7 0826	Taurus Orion	-	A13.31	AURORAL E2	-	-	-	PF	-	-	-	169	-	-
1981-S86	2444688.84	1981 Mar 25 0805:16	Taurus Tomahawk	-	NASA 34.05UE	BUBBLE MACHINE 1	-	-	-	PF	-	-	-	496	-	-
1981-S91	2444695.88	1981 Apr 1 0904:35	Taurus Tomahawk	-	NASA 34.04UE	-	-	-	-	PF	-	-	-	500?	-	-
1981-S93	2444696.91	1981 Apr 2 0948	Taurus Orion	-	NASA 33.20GE	-	-	-	-	WI	-	-	-	220	-	-
1981-S94	2444697.91	1981 Apr 3 0951	Taurus Orion	-	NASA 33.19GE	-	-	-	-	WI	-	-	-	210	-	-
1981-S138	2444825.50	1981 Aug 9	Taurus Orion	-	NASA 33.22UE	-	-	-	-	WI	-	-	-	160	-	-
1981-S148	2444841.50	1981 Aug 25	Taurus Orion	-	NASA 33.06UL?	-	-	-	-	WS	LC36	-	-	200?	-	-
1981-S168	2444917.50	1981 Nov 9	Taurus Orion	-	NASA 33.21UL	-	-	-	-	WS	LC36	-	-	200?	-	-
1982-S62	2445026.66	1982 Feb 26 0350	Taurus Orion	-	NASA 33.25UL	-	-	-	-	FC	-	-	-	160	-	-
1982-S81	2445043.78	1982 Mar 15 0638:20	Taurus Tomahawk	-	NASA 34.08UE	BUBBLE MACHINE II	-	-	-	PF	-	-	-	460	-	-
1982-S94	2445058.94	1982 Mar 30 1026:35	Taurus Tomahawk	-	NASA 34.07UE	LIMERICK	-	-	-	PF	-	-	-	606	-	-
1982-S116	2445106.50	1982 May 17	Taurus Orion	-	NASA 33.28UU	-	-	-	-	WS	LC36	-	-	200?	-	-
1982-S134	2445149.96	1982 Jun 29 1101	Taurus Orion	-	GL A13.277	TRACER	-	-	-	WI	-	-	-	147	-	-
1982-S154	2445192.52	1982 Aug 11 0035	Taurus Orion	-	NASA 33.29UL	-	-	-	-	PF	-	-	-	200?	-	-
1982-S193	2445298.07	1982 Nov 24 1339:48	Taurus Orion	-	NASA 33.24CE	-	-	-	-	PF	-	-	-	200?	-	-
1983-S44	2445347.29	1983 Jan 12 1900	Taurus Orion	-	NASA 33.30UU	-	-	-	-	WS	LC36	-	-	200?	-	-
1983-S50	2445357.04	1983 Jan 22 1302:10	Taurus Orion	-	NASA 33.23CE	-	-	-	-	PF	-	-	-	200?	-	-
1983-A57	2445365.50	1983 Feb?	HJ	-	Sandia	B83 Parachute Test	-	-	-	TTR	-	-	-	12	-	-
1983-S59	2445377.82	1983 Feb 12 0739:15	Taurus Orion	-	NASA 33.31UL	-	-	-	-	PF	-	-	-	200?	-	-
1983-S66	2445396.66	1983 Mar 3 0354	Taurus Orion	-	NASA 33.26UE	CONDOR Fields	-	-	-	CHI	PLOB	-	-	115?	-	-
1983-S73	2445406.15	1983 Mar 12 1535	Taurus Orion	-	NASA 33.27UE	CONDOR Fields	-	-	-	CHI	PLOB	-	-	135?	-	-
1983-S81	2445414.90	1983 Mar 21 0932	Taurus Tomahawk	-	NASA 34.10UE	CONDOR/Star ofCondor	-	-	-	CHI	PLOB	-	-	555	-	-
1983-S82	2445416.91	1983 Mar 23 0949	Taurus Tomahawk	-	NASA 34.09UE	CONDOR/Star of Lima	-	-	-	CHI	PLOB	-	-	425	-	-
1983-S118	2445507.34	1983 Jun 21 2015	Taurus Orion	-	NASA 33.33UL	-	-	-	-	WS	LC36	-	-	200?	-	-
1983-S126	2445530.87	1983 Jul 15 0849	Taurus Orion	-	NASA 33.34GE	GSFC Release	-	-	-	WI	-	-	-	220?	-	-
1983-S128	2445535.87	1983 Jul 20 0854	Taurus Orion	-	NASA 33.35GE	GSFC Release	-	-	-	WI	-	-	-	210?	-	-
1983-A26	2445541.12	1983 Jul 25 1447	Taurus Orion	-	NASA 33.32GU	-	-	-	-	WS	LC36	-	-	10?	-	-
1983-A28	2445579.44	1983 Sep 1 2240	Taurus Nike Tomahawk	-	NASA 12.39WT	-	-	-	-	WI	-	-	-	10?	-	-
1983-S210	2445683.33	1983 Dec 14 1957	Taurus Nike Tomahawk	-	NASA 12.40WT	-	-	-	-	WI	-	-	-	700	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-S43	2445716.26	1984 Jan 16 1820	Taurus Orion	-	NASA 33.36UU	-	-	-	-	WS	LC36	-	-	200?	-	-
1984-S66	2445759.22	1984 Feb 28 1713	Taurus Orion	-	NASA 33.39UL	-	-	-	-	PF	-	-	-	200?	-	-
1984-S76	2445792.80	1984 Apr 2 0715:50	Taurus Nike Tomahawk	-	NASA 38.01UE	-	-	-	-	PF	-	-	-	500?	-	-
1984-S77	2445792.80	1984 Apr 2 0717:57	Taurus Orion	-	NASA 33.42UE	-	-	-	-	PF	-	-	-	200?	-	-
1984-S104	2445913.68	1984 Aug 1 0418	Taurus Nike Tomahawk	-	NASA 38.02UE	SPINEX 1	-	-	-	WI	-	-	-	423	-	-
1984-S105	2445919.54	1984 Aug 7 0100	Taurus Orion	-	NASA 33.43UE	Electrojet	-	-	-	WI	-	-	-	115?	-	-
1984-S125	2445995.77	1984 Oct 22 0627	Taurus Orion	-	NASA 33.47UE	UM UV Glow 1	-	-	-	WS	LC36	-	-	150?	-	-
1984-S127	2445997.60	1984 Oct 24 0219:59	Taurus Orion	-	NASA 33.41UE	MINI (Metal Ions)	-	-	-	WS	LC36	-	-	170	-	-
1984-A40	2446034.50	1984 Dec	HJ	-	Sandia	Stores parachute 1	-	-	-	TTR	-	-	-	12	-	-
1985-A19	2446065.50	1985	HJ	-	Sandia	Stores parachute 2	-	-	-	TTR	-	-	-	12	-	-
1985-S37	2446105.26	1985 Feb 8 1814	Taurus Orion	-	NASA 33.48UU	-	-	-	-	WS	LC36	-	-	200?	-	-
1985-S51	2446130.36	1985 Mar 5 2038	Taurus Orion	-	NASA 33.44UE	COPE Cornell E1	-	-	-	SSG	-	-	-	200?	-	-
1985-S56	2446139.04	1985 Mar 14 1254:34	Taurus Tomahawk	-	NASA 34.11UE	-	-	-	-	PF	-	-	-	500?	-	-
1985-S60	2446145.44	1985 Mar 20 2234	Taurus Tomahawk	-	NASA 34.06UE	COPE Cornell E2	-	-	-	SSG	-	-	-	500?	-	-
1985-S115	2446318.50	1985 Sep 10 0002:10	Taurus Orion	-	NASA 33.50GE	-	-	-	-	WI	-	-	-	200?	-	-
1985-S139	2446389.93	1985 Nov 20 1019	Taurus Nike Tomahawk	-	NASA 38.09UE	CRRES Test	-	-	-	WI	-	-	-	500?	-	-
1986-S29	2446497.31	1986 Mar 7 1930	Taurus Orion	-	NASA 33.51UU	-	-	-	-	WS	LC36	-	-	200?	-	-
1986-A13	2446520.50	1986 Apr	HJ	-	Sandia	Stores parachute 10	-	-	-	TTR	-	-	-	12	-	-
1986-S43	2446548.58	1986 Apr 28 0158	Taurus Nike Tomahawk	-	NASA 38.05UE	SPINEX 2	-	-	-	WI	-	-	-	420	-	-
1986-S47	2446563.83	1986 May 13 0756	Taurus Nike Tomahawk	-	NASA 38.08UE	CRIT I	-	-	-	WI	LA2	-	-	547	-	-
1986-S112	2446739.36	1986 Nov 4 2044:01	Taurus Orion	-	SSC S41H	Aureld-VIP-HIGH	-	-	-	ESR	MAN	-	-	206	-	-
1986-S116	2446777.35	1986 Dec 12 2021:36	Taurus Orion	-	SSC S41L	Aureld-VIP-LOW	-	-	-	ESR	MAN	-	-	185	-	-
1987-S53	2446844.41	1987 Feb 17 2155	Taurus Orion	-	NASA 33.56UE	UM UV Glow 2	-	-	-	WS	LC36	-	-	179	-	-
1987-S59	2446859.78	1987 Mar 5 0638:40	Taurus Nike Tomahawk	-	NASA 38.12UE	COPE II Super 0	-	-	-	SSG	-	-	-	500?	-	-
1987-S65	2446875.80	1987 Mar 21 0706	Taurus Tomahawk	-	NASA 34.14UE	COPE II Release	-	-	-	SSG	-	-	-	350?	-	-
1987-S75	2446885.70	1987 Mar 31 0447:05	Taurus Nike Tomahawk	-	NASA 38.10UE	COPE II Super 1	-	-	-	SSG	-	-	-	467	-	-
1987-S76	2446885.70	1987 Mar 31 0447:11	Taurus Nike Tomahawk	-	NASA 38.11UE	COPE II Super 2	-	-	-	SSG	-	-	-	441	-	-
1987-S109	2446991.58	1987 Jul 15 0155	Taurus Orion	-	NASA 33.52GE	GSFC Thunderstorm	-	-	-	WI	-	-	-	177	-	-
1987-S112	2447003.77	1987 Jul 27 0625	Taurus Orion	-	NASA 33.53GE	WIPP/GSFC Thunder.	-	-	-	WI	-	-	-	177	-	-
1987-S149	2447072.50	1987 Oct 4	HJ Nike Hydac	?	-	HAVE JEEP IV-D	-	-	-	KMR	RN	-	-	500?	-	-
1987-S175	2447117.50	1987 Nov 18	HJ Nike Hydac	?	-	HAVE JEEP VIII-A	-	-	-	KMR	RN	-	-	500?	-	-
1988-S106	2447369.74	1988 Jul 27 0548:03	Taurus Nike Tomahawk	-	NASA 38.07UE	-	-	-	-	WI	-	-	-	500?	-	-
1988-S127	2447453.50	1988 Oct 19	HJ Nike Hydac	?	-	HAVE JEEP II-C	-	-	-	KMR	RN	-	-	500?	-	-
1988-S128	2447455.35	1988 Oct 20 2029:51	Taurus Orion	-	NASA 33.49UL	-	-	-	-	PF	-	-	-	200?	-	-
1989-S42	2447593.42	1989 Mar 7 2200	Taurus Orion	-	NASA 33.57UL	-	-	-	-	PF	-	-	-	200?	-	-
1989-A14	2447882.34	1989 Dec 21 2006	Taurus	S	NASA 12.43WT	-	-	-	-	WI	-	-	-	10?	-	-
1990-S88	2448025.40	1990 May 13 2129:02	Taurus Orion	-	NASA 33.59GE	-	-	-	-	PF	-	-	-	130	-	-
1990-S90	2448026.35	1990 May 14 2026	Taurus Orion	-	NASA 33.60GE	-	-	-	-	PF	-	-	-	130?	-	-
1990-S116	2448114.84	1990 Aug 11 0810:00	Taurus Nike Tomahawk	-	NASA 38.17UE	CRRES AA-5	-	-	-	KMR	RN	-	-	375	-	-
1990-S118	2448118.85	1990 Aug 15 0829:00	Taurus Nike Tomahawk	-	NASA 38.15UE	CRRES AA-6	-	-	-	KMR	RN	-	-	428	-	-
1990-S119	2448118.86	1990 Aug 15 0843:56	Taurus Nike Tomahawk	-	NASA 38.16UE	CRRES	-	-	-	KMR	RN	-	-	440?	-	-
1990-S123	2448125.86	1990 Aug 22 0840:10	Taurus Nike Tomahawk	-	NASA 38.18UE	CRRES	-	-	-	KMR	RN	-	-	440?	-	-
1991-S178	2448596.54	1991 Dec 6 0054	Taurus Nike Tomahawk	-	NASA 38.19UE	RED AIR 2	-	-	-	WI	-	-	-	359	-	-
1991-S179	2448596.55	1991 Dec 6 0119	Taurus Nike Tomahawk	-	NASA 38.20UE	RED AIR 2	-	-	-	WI	-	-	-	361	-	-
1993-S63	2449265.32	1993 Oct 4 1935	Taurus Orion	-	NASA 33.062UE	-	-	-	-	WS	-	-	-	200?	-	-
1994-S43	2449531.42	1994 Jun 27 2205	Taurus Orion	-	NASA 33.063UE	-	-	-	-	PF	-	-	-	200?	-	-
1995-S41	2449875.42	1995 Jun 6 2200:00	Taurus Orion	-	NASA 33.064UE	-	-	-	-	PF	-	-	-	200?	-	-
1998-S21	2450869.82	1998 Feb 25 0743:00	Taurus Orion	-	NASA 33.067UE	-	-	-	-	TORT	-	-	-	200?	-	-
1999-S04	2451201.15	1999 Jan 22 1531:00	Taurus Orion	-	NASA 33.068UE	-	-	-	-	PF	-	-	-	200?	-	-
1999-S44	2451364.67	1999 Jul 5 0402:00	Taurus Orion	-	NASA 33.065UE	-	-	-	-	WI	-	-	-	200?	-	-
1999-S48	2451377.65	1999 Jul 18 0341:00	Taurus Orion	-	NASA 33.066UE	-	-	-	-	WI	-	-	-	200?	-	-
2002-S10	2452326.91	2002 Feb 21 0957:01	Taurus Orion	-	NASA 33.069UE	-	-	-	-	PF	-	-	-	200?	-	-
2002-S11	2452326.92	2002 Feb 21 0959:01	Taurus Orion	-	NASA 33.070UE	-	-	-	-	PF	-	-	-	200?	-	-
2002-S12	2452326.92	2002 Feb 21 1001:01	Taurus Orion	-	NASA 33.073UE	-	-	-	-	PF	-	-	-	200?	-	-
2014-A42	2457008.65	2014 Dec 17 0330	Taurion	-	NASA 12.082CR	Sprint	-	-	-	WS	-	-	-	2?	-	-
2021-A05	2459303.50	2021 Mar 30	Taurion	?	NASA 12.088NR	ABFT	-	-	-	WS	LC36	-	-	2?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1951-A102	2433762.50	1951 Apr 26	X-7A-1	-	1	0.000	WADD?	AF	U	-	Test	X-Planes	-	-
1951-A103	2433950.50	1951 Nov	X-7A-1	-	2	0.000	WADD?	AF	U	-	Test	X-Planes	-	-
1951-A37	2433826.50	1951 Jun 29	Honest John	-	1	0.000	ORDRSA	AS	-	-	Test	wsmr.history.org	-	-
1951-A44	2433845.50	1951 Jul 18	Honest John	-	2	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A47	2433852.50	1951 Jul 25	Honest John	-	3	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A49	2433859.50	1951 Aug 01	Honest John	-	4	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A51	2433865.50	1951 Aug 07	Honest John	-	5	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A73	2433936.50	1951 Oct 17	Honest John	-	7	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A74	2433936.50	1951 Oct 17	Honest John	-	6	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A75	2433943.50	1951 Oct 24	Honest John	-	8	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A76	2433943.50	1951 Oct 24	Honest John	-	9	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A79	2433963.50	1951 Nov 13	Honest John	-	13	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A80	2433964.50	1951 Nov 14	Honest John	-	11	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A81	2433964.50	1951 Nov 14	Honest John	-	10	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A86	2433978.50	1951 Nov 28	Honest John	-	12	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A97	2433997.50	1951 Dec 17	Honest John	-	14	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1951-A98	2433997.50	1951 Dec 17	Honest John	-	15	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A02	2434015.50	1952 Jan 04	Honest John	-	16	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A03	2434015.50	1952 Jan 04	Honest John	-	17	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A04	2434020.50	1952 Jan 09	Honest John	-	18	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A05	2434020.50	1952 Jan 09	Honest John	-	19	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A25	2434053.50	1952 Feb 11	Honest John	-	20	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A26	2434053.50	1952 Feb 11	Honest John	-	21	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A27	2434053.50	1952 Feb 11	Honest John	-	22	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A28	2434053.50	1952 Feb 11	Honest John	-	23	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A35	2434069.50	1952 Feb 27	Honest John	-	24	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A36	2434069.50	1952 Feb 27	Honest John	-	25	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A56	2434102.50	1952 Mar 31	Honest John	-	26	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A57	2434102.50	1952 Mar 31	Honest John	-	27	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A58	2434104.50	1952 Apr 02	Honest John	-	28	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A59	2434104.50	1952 Apr 02	Honest John	-	29	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A85	2434154.50	1952 May 22	Honest John	-	30	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A86	2434154.50	1952 May 22	Honest John	-	31	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A89	2434155.50	1952 May 23	Honest John	-	32	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A91	2434161.50	1952 May 29	Honest John	-	33	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A96	2434180.50	1952 Jun 17	Honest John	-	36	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A97	2434180.50	1952 Jun 17	Honest John	-	34	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A98	2434180.50	1952 Jun 17	Honest John	-	35	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A104	2434193.50	1952 Jun 30	Honest John	-	38	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A105	2434193.50	1952 Jun 30	Honest John	-	37	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A107	2434200.50	1952 Jul 07	Honest John	-	39	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A117	2434216.50	1952 Jul 23	Honest John	-	40	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A118	2434216.50	1952 Jul 23	Honest John	-	41	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A120	2434221.50	1952 Jul 28	Honest John	-	43	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A121	2434221.50	1952 Jul 28	Honest John	-	42	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A124	2434228.50	1952 Aug 04	Honest John	-	44	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A125	2434228.50	1952 Aug 04	Honest John	-	45	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A132	2434235.50	1952 Aug 11	Honest John	-	46	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A133	2434235.50	1952 Aug 11	Honest John	-	47	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A138	2434244.50	1952 Aug 20	Honest John	-	48	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A139	2434244.50	1952 Aug 20	Honest John	-	49	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A150	2434265.50	1952 Sep 10	Honest John	-	51	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A151	2434265.50	1952 Sep 10	Honest John	-	50	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A158	2434272.50	1952 Sep 17	Honest John	-	52	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A167	2434281.50	1952 Sep 26	Honest John	-	53	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A172	2434288.50	1952 Oct 03	Honest John	-	54	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A173	2434288.50	1952 Oct 03	Honest John	-	55	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A184	2434300.50	1952 Oct 15	Honest John	-	56	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A185	2434300.50	1952 Oct 15	Honest John	-	57	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A186	2434302.50	1952 Oct 17	Honest John	-	58	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A187	2434302.50	1952 Oct 17	Honest John	-	59	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A196	2434314.50	1952 Oct 29	Honest John	-	60	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A197	2434314.50	1952 Oct 29	Honest John	-	61	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A210	2434323.50	1952 Nov 07	Honest John	-	62	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A211	2434323.50	1952 Nov 07	Honest John	-	63	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A232	2434335.50	1952 Nov 19	Honest John	-	64	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A234	2434336.50	1952 Nov 20	Honest John	-	66	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A235	2434336.50	1952 Nov 20	Honest John	-	65	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A238	2434337.50	1952 Nov 21	Honest John	-	67	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A242	2434342.50	1952 Nov 26	Honest John	-	68	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A243	2434342.50	1952 Nov 26	Honest John	-	70	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A244	2434342.50	1952 Nov 26	Honest John	-	69	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A245	2434342.50	1952 Nov 26	Honest John	-	71	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A251	2434349.50	1952 Dec 03	Honest John	-	72	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A260	2434351.50	1952 Dec 05	Honest John	-	73	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A261	2434351.50	1952 Dec 05	Honest John	-	74	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A267	2434361.50	1952 Dec 15	Honest John	-	76	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A268	2434361.50	1952 Dec 15	Honest John	-	75	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A286	2434363.50	1952 Dec 17	X-7A-1	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-
1952-A277	2434365.50	1952 Dec 19	Honest John	-	78	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1952-A278	2434365.50	1952 Dec 19	Honest John	-	77	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A05	2434382.50	1953 Jan 05	Honest John	-	79	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A09	2434389.50	1953 Jan 12	Honest John	-	80	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A10	2434389.50	1953 Jan 12	Honest John	-	81	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A13	2434390.50	1953 Jan 13	Honest John	-	82	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A492	2434392.50	1953 Jan 15	Father John	1	1	0.000	ORDRSA	AU	-	-	Test	RSA-HJ-History	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A19	2434393.50	1953 Jan 16	Honest John	-	83	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A20	2434393.50	1953 Jan 16	Honest John	-	84	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A36	2434405.50	1953 Jan 28	Honest John	-	86EN	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A37	2434405.50	1953 Jan 28	Honest John	-	85EN	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A38	2434406.50	1953 Jan 29	Honest John	-	87EO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A501	2434410.50	1953 Feb 2	X-7A-1	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-
1953-A49	2434419.50	1953 Feb 11	Honest John	-	88	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A50	2434419.50	1953 Feb 11	Honest John	-	89	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A51	2434419.50	1953 Feb 11	Honest John	-	90	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A52	2434419.50	1953 Feb 11	Honest John	-	91	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A53	2434420.50	1953 Feb 12	Honest John	-	92	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A54	2434420.50	1953 Feb 12	Honest John	-	93	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A58	2434421.50	1953 Feb 13	Honest John	-	96	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A59	2434421.50	1953 Feb 13	Honest John	-	95	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A60	2434421.50	1953 Feb 13	Honest John	-	94	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A71	2434428.50	1953 Feb 20	Honest John	-	198	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A75	2434433.50	1953 Feb 25	Honest John	-	346	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A76	2434433.50	1953 Feb 25	Honest John	-	306	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A84	2434435.50	1953 Feb 27	Honest John	-	347	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A88	2434438.50	1953 Mar 02	Honest John	-	1SP	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A95	2434441.50	1953 Mar 05	Honest John	-	344	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A101	2434442.50	1953 Mar 06	Honest John	-	340	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A104	2434447.50	1953 Mar 11	Honest John	-	304	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A105	2434447.50	1953 Mar 11	Honest John	-	305	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A107	2434448.50	1953 Mar 12	Honest John	-	345	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A114	2434449.50	1953 Mar 13	Honest John	-	348	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A115	2434449.50	1953 Mar 13	Honest John	-	349	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A117	2434450.50	1953 Mar 14	Honest John	-	350	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A135	2434456.50	1953 Mar 20	Honest John	-	351	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A136	2434457.50	1953 Mar 21	Honest John	-	352	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A137	2434457.50	1953 Mar 21	Honest John	-	187	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A140	2434459.50	1953 Mar 23	Honest John	-	183	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A141	2434460.50	1953 Mar 24	Honest John	-	182	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A493	2434461.50	1953 Mar 25	Father John	2	308	0.000	ORDRSA	AU	-	-	Test	RSA-HJ-History	-	-
1953-A149	2434463.50	1953 Mar 27	Honest John	-	188	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A150	2434463.50	1953 Mar 27	Honest John	-	189	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A502	2434475.50	1953 Apr 8	X-7A-1	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-
1953-A185	2434491.50	1953 Apr 24	Honest John	-	305	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A186	2434491.50	1953 Apr 24	Honest John	-	304	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A189	2434494.50	1953 Apr 27	Honest John	-	184	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A190	2434494.50	1953 Apr 27	Honest John	-	185	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A198	2434498.50	1953 May 01	Honest John	-	186	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A199	2434501.50	1953 May 04	Honest John	-	205	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A201	2434502.50	1953 May 05	Honest John	-	206	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A204	2434503.50	1953 May 06	Honest John	-	199	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A224	2434522.50	1953 May 25	Honest John	-	353	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A225	2434522.50	1953 May 25	Honest John	-	354	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A226	2434523.50	1953 May 26	Honest John	-	307	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A227	2434523.50	1953 May 26	Honest John	-	309	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A236	2434537.50	1953 Jun 09	Honest John	-	211	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A242	2434540.50	1953 Jun 12	Honest John	-	310	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A243	2434540.50	1953 Jun 12	Honest John	-	311	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A250	2434548.50	1953 Jun 20	Honest John	-	493	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A251	2434548.50	1953 Jun 20	Honest John	-	494	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A252	2434550.50	1953 Jun 22	Honest John	-	491	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A253	2434550.50	1953 Jun 22	Honest John	-	492	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A254	2434551.50	1953 Jun 23	Honest John	-	496	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A255	2434551.50	1953 Jun 23	Honest John	-	497	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A260	2434553.50	1953 Jun 25	Honest John	-	495	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A261	2434553.50	1953 Jun 25	Honest John	-	499	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A264	2434554.50	1953 Jun 26	Honest John	-	490	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A265	2434554.50	1953 Jun 26	Honest John	-	498	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A266	2434556.50	1953 Jun 28	Honest John	-	407	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A267	2434556.50	1953 Jun 28	Honest John	-	408	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A268	2434556.50	1953 Jun 28	Honest John	-	406	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A269	2434556.50	1953 Jun 28	Honest John	-	405	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A270	2434556.50	1953 Jun 28	Honest John	-	404	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A271	2434556.50	1953 Jun 28	Honest John	-	403	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A272	2434557.50	1953 Jun 29	Honest John	-	410	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A273	2434557.50	1953 Jun 29	Honest John	-	411	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A274	2434557.50	1953 Jun 29	Honest John	-	412	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A275	2434557.50	1953 Jun 29	Honest John	-	409	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A290	2434572.50	1953 Jul 14	Honest John	-	212H	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A301	2434580.50	1953 Jul 22	Honest John	-	312H	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A321	2434601.50	1953 Aug 12	Honest John	-	325	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A322	2434601.50	1953 Aug 12	Honest John	-	324	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A328	2434606.50	1953 Aug 17	Honest John	-	68M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A329	2434607.50	1953 Aug 18	Honest John	-	213	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A336	2434617.50	1953 Aug 28	Honest John	-	329	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A337	2434617.50	1953 Aug 28	Honest John	-	330	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A340	2434621.50	1953 Sep 01	Honest John	-	200	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A341	2434621.50	1953 Sep 01	Honest John	-	201	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A347	2434624.50	1953 Sep 04	Honest John	-	331	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A348	2434624.50	1953 Sep 04	Honest John	-	332	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A351	2434630.50	1953 Sep 10	Honest John	-	556	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A352	2434630.50	1953 Sep 10	Honest John	-	557	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A503	2434632.50	1953 Sep 12	X-7A-1	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-
1953-A357	2434635.50	1953 Sep 15	Honest John	-	558	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A359	2434636.50	1953 Sep 16	Honest John	-	313	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A360	2434636.50	1953 Sep 16	Honest John	-	323	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A365	2434643.50	1953 Sep 23	Honest John	-	559	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A366	2434643.50	1953 Sep 23	Honest John	-	560	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A370	2434645.50	1953 Sep 25	Honest John	-	70	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A376	2434649.50	1953 Sep 29	Honest John	-	359G	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A378	2434651.50	1953 Oct 01	Honest John	-	321S	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A382	2434652.50	1953 Oct 02	Honest John	-	319S	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A383	2434655.50	1953 Oct 05	Honest John	-	2SP	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A384	2434655.50	1953 Oct 05	Honest John	-	4SP	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A385	2434655.50	1953 Oct 05	Honest John	-	358G	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A394	2434663.50	1953 Oct 13	Honest John	-	316S	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A395	2434663.50	1953 Oct 13	Honest John	-	322S	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A494	2434666.50	1953 Oct 16	Father John	2	3	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	RSA-HJ-History	-
1953-A411	2434672.50	1953 Oct 22	Honest John	-	69N	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A416	2434673.50	1953 Oct 23	Honest John	-	1DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A495	2434679.50	1953 Oct 29	Father John	2	4	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	RSA-HJ-History	-
1953-A496	2434680.50	1953 Oct 30	Father John	2	5	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	RSA-HJ-History	-
1953-A424	2434684.50	1953 Nov 03	Honest John	-	208M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A425	2434684.50	1953 Nov 03	Honest John	-	207M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A433	2434685.50	1953 Nov 04	Honest John	-	2DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A435	2434691.50	1953 Nov 10	Honest John	-	3DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A436	2434691.50	1953 Nov 10	Honest John	-	4DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A437	2434693.50	1953 Nov 12	Honest John	-	5DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A442	2434698.50	1953 Nov 17	Honest John	-	209M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A443	2434698.50	1953 Nov 17	Honest John	-	210M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A456	2434701.50	1953 Nov 20	Honest John	-	355G	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A457	2434701.50	1953 Nov 20	Honest John	-	356G	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A459	2434706.50	1953 Nov 25	Honest John	-	6DJ	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A504	2434719.50	1953 Dec 8	X-7A-1	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-
1953-A472	2434720.50	1953 Dec 09	Honest John	-	214M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A475	2434721.50	1953 Dec 10	Honest John	-	3566	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A491	2434729.50	1953 Dec 18	Honest John	-	422N	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1953-A497	2434377.50	1953	Father John	2	6	0.000	ORDRSA	AU	-	-	Test	RSA-HJ-History	-	-
1954-A716	2434742.50	1954	Father John	2	10	0.000	ORDRSA	AU	-	-	Test	RSA-HJ-History	-	-
1954-A14	2434754.50	1954 Jan 12	Honest John	-	500C	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A18	2434757.50	1954 Jan 15	Honest John	-	5SP	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A19	2434757.50	1954 Jan 15	Honest John	-	3SP	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A26	2434761.50	1954 Jan 19	Honest John	-	401M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A27	2434762.50	1954 Jan 20	Honest John	-	216M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A731	2434768.50	1954 Jan 26	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A35	2434770.50	1954 Jan 28	Honest John	-	400M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A39	2434774.50	1954 Feb 01	Honest John	-	402ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A40	2434775.50	1954 Feb 02	Honest John	-	202H	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A47	2434782.50	1954 Feb 09	Honest John	-	417ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A48	2434782.50	1954 Feb 09	Honest John	-	416ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A49	2434783.50	1954 Feb 10	Honest John	-	218M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A50	2434783.50	1954 Feb 10	Honest John	-	217M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A53	2434784.50	1954 Feb 11	Honest John	-	420ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A54	2434785.50	1954 Feb 12	Honest John	-	378-0	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A55	2434785.50	1954 Feb 12	Honest John	-	379-0	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A56	2434788.50	1954 Feb 15	Honest John	-	430ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A57	2434788.50	1954 Feb 15	Honest John	-	431ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A58	2434789.50	1954 Feb 16	Honest John	-	432ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A59	2434789.50	1954 Feb 16	Honest John	-	418ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A60	2434790.50	1954 Feb 17	Honest John	-	219M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A61	2434790.50	1954 Feb 17	Honest John	-	220M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A65	2434791.50	1954 Feb 18	Honest John	-	203H	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A67	2434792.50	1954 Feb 19	Honest John	-	434ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A68	2434792.50	1954 Feb 19	Honest John	-	414ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A71	2434796.50	1954 Feb 23	Honest John	-	423ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A72	2434796.50	1954 Feb 23	Honest John	-	429ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A74	2434797.50	1954 Feb 24	Honest John	-	424ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A75	2434797.50	1954 Feb 24	Honest John	-	421ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A76	2434797.50	1954 Feb 24	Honest John	-	433ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A732	2434797.50	1954 Feb 24	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A77	2434798.50	1954 Feb 25	Honest John	-	413ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A78	2434798.50	1954 Feb 25	Honest John	-	428ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A79	2434798.50	1954 Feb 25	Honest John	-	415ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A82	2434799.50	1954 Feb 26	Honest John	-	427ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A83	2434799.50	1954 Feb 26	Honest John	-	425ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A87	2434802.50	1954 Mar 01	Honest John	-	419ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A88	2434802.50	1954 Mar 01	Honest John	-	426ST	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A90	2434804.50	1954 Mar 03	Honest John	-	381-0	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A91	2434804.50	1954 Mar 03	Honest John	-	380-0	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A93	2434805.50	1954 Mar 04	Honest John	-	292-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A94	2434805.50	1954 Mar 04	Honest John	-	293-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A95	2434805.50	1954 Mar 04	Honest John	-	291-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A96	2434805.50	1954 Mar 04	Honest John	-	294-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A97	2434806.50	1954 Mar 05	Honest John	-	295-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A98	2434806.50	1954 Mar 05	Honest John	-	296-T	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A108	2434811.50	1954 Mar 10	Honest John	-	220	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A113	2434819.50	1954 Mar 18	Honest John	-	202	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A117	2434820.50	1954 Mar 19	Honest John	-	500	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A127	2434827.50	1954 Mar 26	Honest John	-	166	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A128	2434827.50	1954 Mar 26	Honest John	-	490	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A133	2434830.50	1954 Mar 29	Honest John	-	443	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A139	2434833.50	1954 Apr 01	Honest John	-	86A	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A140	2434833.50	1954 Apr 01	Honest John	-	161A	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A144	2434838.50	1954 Apr 06	Honest John	-	452M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A145	2434838.50	1954 Apr 06	Honest John	-	454M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A151	2434840.50	1954 Apr 08	Honest John	-	296M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A152	2434840.50	1954 Apr 08	Honest John	-	470M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A154	2434841.50	1954 Apr 09	Honest John	-	501	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A155	2434841.50	1954 Apr 09	Honest John	-	511	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A184	2434853.50	1954 Apr 21	Honest John	-	476M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A185	2434853.50	1954 Apr 21	Honest John	-	479M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A198	2434859.50	1954 Apr 27	Honest John	-	503M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A199	2434859.50	1954 Apr 27	Honest John	-	472M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A215	2434861.50	1954 Apr 29	Honest John	-	477M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A216	2434861.50	1954 Apr 29	Honest John	-	475M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A220	2434862.50	1954 Apr 30	Honest John	-	212	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A221	2434862.50	1954 Apr 30	Honest John	-	277	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A232	2434867.50	1954 May 05	Honest John	-	211M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A233	2434867.50	1954 May 05	Honest John	-	207M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A252	2434873.50	1954 May 11	Honest John	-	220M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A253	2434873.50	1954 May 11	Honest John	-	268M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A255	2434874.50	1954 May 12	Honest John	-	585	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A256	2434874.50	1954 May 12	Honest John	-	586	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A267	2434875.50	1954 May 13	Honest John	-	580	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A268	2434875.50	1954 May 13	Honest John	-	584	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A270	2434876.50	1954 May 14	Honest John	-	577	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A271	2434876.50	1954 May 14	Honest John	-	581	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A278	2434879.50	1954 May 17	Honest John	-	576M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A279	2434879.50	1954 May 17	Honest John	-	578	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A292	2434883.50	1954 May 21	Honest John	-	205	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A293	2434886.50	1954 May 24	Honest John	-	213	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A294	2434886.50	1954 May 24	Honest John	-	436	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A306	2434895.50	1954 Jun 2	Honest John	-	582	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A307	2434895.50	1954 Jun 2	Honest John	-	575	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A319	2434897.50	1954 Jun 4	Honest John	-	575	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A323	2434900.50	1954 Jun 7	Honest John	-	180M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A324	2434900.50	1954 Jun 7	Honest John	-	206M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A733	2434901.50	1954 Jun 8	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A338	2434903.50	1954 Jun 10	Honest John	-	262	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A339	2434903.50	1954 Jun 10	Honest John	-	271	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A345	2434907.50	1954 Jun 14	Honest John	-	279M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A346	2434907.50	1954 Jun 14	Honest John	-	203M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A358	2434910.50	1954 Jun 17	Honest John	-	246C	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A359	2434910.50	1954 Jun 17	Honest John	-	274CC	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A362	2434914.50	1954 Jun 21	Honest John	-	270M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A366	2434916.50	1954 Jun 23	Honest John	-	278M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A367	2434916.50	1954 Jun 23	Honest John	-	398M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A386	2434923.50	1954 Jun 30	Honest John	-	432M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A387	2434923.50	1954 Jun 30	Honest John	-	437M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A409	2434936.50	1954 Jul 13	Honest John	-	437M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A412	2434938.50	1954 Jul 15	Honest John	-	434	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A419	2434943.50	1954 Jul 20	Honest John	-	438	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A420	2434943.50	1954 Jul 20	Honest John	-	413	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A434	2434946.50	1954 Jul 23	Honest John	-	462	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A448	2434951.50	1954 Jul 28	Honest John	-	409M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A449	2434951.50	1954 Jul 28	Honest John	-	214M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A713	2434958.50	1954 Aug 4	Father John	2	7	0.000	ORDRSA	AU	-	-	Test	wmsr-hstory.org	RSA-HJ-History	-
1954-A466	2434964.50	1954 Aug 10	Honest John	-	464S	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A467	2434964.50	1954 Aug 10	Honest John	-	433C	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A468	2434964.50	1954 Aug 10	Honest John	-	439C	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A474	2434966.50	1954 Aug 12	Honest John	-	486M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A475	2434966.50	1954 Aug 12	Honest John	-	487M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A481	2434973.50	1954 Aug 19	Honest John	-	447	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A490	2434980.50	1954 Aug 26	Honest John	-	550	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A495	2434986.50	1954 Sep 01	Honest John	-	384M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A502	2434993.50	1954 Sep 08	Honest John	-	435M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A522	2435000.50	1954 Sep 15	Honest John	-	546M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A532	2435007.50	1954 Sep 22	Honest John	-	551M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A539	2435008.50	1954 Sep 23	Honest John	-	390M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A540	2435008.50	1954 Sep 23	Honest John	-	497M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A734	2435008.50	1954 Sep 23	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A714	2435014.50	1954 Sep 29	Father John	2	8	0.000	ORDRSA	AU	-	-	Test	wmsr-hstory.org	RSA-HJ-History	-
1954-A549	2435014.50	1954 Sep 29	Honest John	-	549M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A559	2435021.50	1954 Oct 06	Honest John	-	407M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A565	2435026.50	1954 Oct 11	Honest John	-	394ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A566	2435026.50	1954 Oct 11	Honest John	-	395ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A569	2435028.50	1954 Oct 13	Honest John	-	280AM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A573	2435029.50	1954 Oct 14	Honest John	-	138ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A574	2435029.50	1954 Oct 14	Honest John	-	122ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A581	2435035.50	1954 Oct 20	Honest John	-	548M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A735	2435036.50	1954 Oct 21	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A591	2435040.50	1954 Oct 25	Honest John	-	813M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A593	2435042.50	1954 Oct 27	Honest John	-	559M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A598	2435043.50	1954 Oct 28	Honest John	-	814M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A602	2435048.50	1954 Nov 02	Honest John	-	450M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A603	2435048.50	1954 Nov 02	Honest John	-	416M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A604	2435049.50	1954 Nov 03	Honest John	-	455M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A606	2435050.50	1954 Nov 04	Honest John	-	742	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A607	2435050.50	1954 Nov 04	Honest John	-	653	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A610	2435051.50	1954 Nov 05	Honest John	-	735	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A616	2435055.50	1954 Nov 09	Honest John	-	471M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A617	2435055.50	1954 Nov 09	Honest John	-	473M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A621	2435056.50	1954 Nov 10	Honest John	-	547M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A715	2435061.50	1954 Nov 15	Father John	2	9	0.000	ORDRSA	AU	-	-	Test	wmsr-hstory.org	RSA-HJ-History	-
1954-A631	2435061.50	1954 Nov 15	Honest John	-	795	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A632	2435061.50	1954 Nov 15	Honest John	-	791	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A635	2435063.50	1954 Nov 17	Honest John	-	442	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A643	2435065.50	1954 Nov 19	Honest John	-	790	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A644	2435065.50	1954 Nov 19	Honest John	-	789	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A649	2435068.50	1954 Nov 22	Honest John	-	861	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A650	2435068.50	1954 Nov 22	Honest John	-	862	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A652	2435069.50	1954 Nov 23	Honest John	-	456M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A653	2435069.50	1954 Nov 23	Honest John	-	509M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A658	2435070.50	1954 Nov 24	Honest John	-	460M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A736	2435070.50	1954 Nov 24	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A663	2435075.50	1954 Nov 29	Honest John	-	484ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A664	2435075.50	1954 Nov 29	Honest John	-	449ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A665	2435077.50	1954 Dec 01	Honest John	-	494M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A673	2435082.50	1954 Dec 06	Honest John	-	792PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A674	2435082.50	1954 Dec 06	Honest John	-	784PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A680	2435084.50	1954 Dec 08	Honest John	-	117AEM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A694	2435089.50	1954 Dec 13	Honest John	-	545ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A695	2435089.50	1954 Dec 13	Honest John	-	556ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A698	2435090.50	1954 Dec 14	Honest John	-	M-62A-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A699	2435090.50	1954 Dec 14	Honest John	-	M-64A-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1954-A737	2435090.50	1954 Dec 14	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1954-A738	2435097.50	1954 Dec 21	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1955-A655	2435125.50	1955 Jan 18	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1955-A30	2435126.50	1955 Jan 19	Honest John	-	467	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A35	2435128.50	1955 Jan 21	Honest John	-	785M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A36	2435128.50	1955 Jan 21	Honest John	-	793M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A37	2435128.50	1955 Jan 21	Honest John	-	794M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A38	2435128.50	1955 Jan 21	Honest John	-	783M	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A43	2435132.50	1955 Jan 25	Honest John	-	M-87A	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A44	2435132.50	1955 Jan 25	Honest John	-	M-34A	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A45	2435132.50	1955 Jan 25	Honest John	-	347RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A46	2435132.50	1955 Jan 25	Honest John	-	346RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A51	2435134.50	1955 Jan 27	Honest John	-	M-780-AO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A52	2435134.50	1955 Jan 27	Honest John	-	804-AO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A56	2435135.50	1955 Jan 28	Honest John	-	974-AO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A57	2435135.50	1955 Jan 28	Honest John	-	975-AO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A62	2435139.50	1955 Feb 01	Honest John	-	510-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A63	2435139.50	1955 Feb 01	Honest John	-	469-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A656	2435139.50	1955 Feb 1	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1955-A80	2435146.50	1955 Feb 08	Honest John	-	960PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A81	2435146.50	1955 Feb 08	Honest John	-	923RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A82	2435146.50	1955 Feb 08	Honest John	-	924RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A92	2435149.50	1955 Feb 11	Honest John	-	289-ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A93	2435149.50	1955 Feb 11	Honest John	-	126-ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A563	2435152.50	1955 Feb 14	Honest John	-	929-RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A564	2435152.50	1955 Feb 14	Honest John	-	925-RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A129	2435162.50	1955 Feb 24	Honest John	-	835-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A130	2435162.50	1955 Feb 24	Honest John	-	915-RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A131	2435162.50	1955 Feb 24	Honest John	-	839-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A132	2435162.50	1955 Feb 24	Honest John	-	911-RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A657	2435162.50	1955 Feb 24	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1955-A141	2435168.50	1955 Mar 02	Honest John	-	570EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A161	2435175.50	1955 Mar 09	Honest John	-	M-102-EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A182	2435180.50	1955 Mar 14	Honest John	-	M-930-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A183	2435180.50	1955 Mar 14	Honest John	-	M-919-RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A187	2435182.50	1955 Mar 16	Honest John	-	172-A-EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A204	2435188.50	1955 Mar 22	Honest John	-	914RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A205	2435188.50	1955 Mar 22	Honest John	-	928RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A208	2435189.50	1955 Mar 23	Honest John	-	417EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A213	2435190.50	1955 Mar 24	Honest John	-	840PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A214	2435190.50	1955 Mar 24	Honest John	-	837PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A217	2435191.50	1955 Mar 25	Honest John	-	M-957-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A218	2435191.50	1955 Mar 25	Honest John	-	M-959-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A219	2435191.50	1955 Mar 25	Honest John	-	M-958-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A220	2435191.50	1955 Mar 25	Honest John	-	M-961-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A229	2435194.50	1955 Mar 28	Honest John	-	917RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A233	2435196.50	1955 Mar 30	Honest John	-	94A-EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A236	2435198.50	1955 Apr 01	Honest John	-	M-970-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A237	2435198.50	1955 Apr 01	Honest John	-	M-967-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A239	2435201.50	1955 Apr 04	Honest John	-	931RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A240	2435201.50	1955 Apr 04	Honest John	-	922RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A246	2435202.50	1955 Apr 05	Honest John	-	M-829-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A247	2435202.50	1955 Apr 05	Honest John	-	M-834-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A251	2435203.50	1955 Apr 06	Honest John	-	11A-EM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A670	2435204.50	1955 Apr 7	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A262	2435205.50	1955 Apr 08	Honest John	-	M-116-AES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A263	2435205.50	1955 Apr 08	Honest John	-	M-114 AES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A264	2435205.50	1955 Apr 08	Honest John	-	M-969-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A265	2435205.50	1955 Apr 08	Honest John	-	M-971-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A292	2435216.50	1955 Apr 19	Honest John	-	1046RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A293	2435216.50	1955 Apr 19	Honest John	-	1045RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A298	2435217.50	1955 Apr 20	Honest John	-	M-830-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A299	2435217.50	1955 Apr 20	Honest John	-	M-836-PO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A566	2435218.50	1955 Apr 21	Honest John	-	921-ES	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A658	2435226.50	1955 Apr 29	X-7A-1	-	MX-883	0.000	WADD?	AS	-	-	Test	wsmr.history.org	-	-
1955-A330	2435230.50	1955 May 03	Honest John	-	1019RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A331	2435230.50	1955 May 03	Honest John	-	1034RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A349	2435237.50	1955 May 10	Honest John	-	1029RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A350	2435237.50	1955 May 10	Honest John	-	1087RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A376	2435251.50	1955 May 24	Honest John	-	1028RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A377	2435251.50	1955 May 24	Honest John	-	1018RM	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A397	2435254.50	1955 May 27	Honest John	-	1035RO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A398	2435254.50	1955 May 27	Honest John	-	1056RO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A413	2435260.50	1955 Jun 02	Honest John	-	1032RS	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A418	2435261.50	1955 Jun 03	Honest John	-	1036RO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A419	2435261.50	1955 Jun 03	Honest John	-	1023RO	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A671	2435274.50	1955 Jun 16	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A672	2435275.50	1955 Jun 17	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A673	2435278.50	1955 Jun 20	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A674	2435278.50	1955 Jun 20	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A675	2435279.50	1955 Jun 21	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A676	2435279.50	1955 Jun 21	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A677	2435286.50	1955 Jun 28	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A678	2435288.50	1955 Jun 30	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A679	2435288.50	1955 Jun 30	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A680	2435293.50	1955 Jul 5	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A681	2435293.50	1955 Jul 5	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A682	2435301.50	1955 Jul 13	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A683	2435301.50	1955 Jul 13	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A684	2435306.50	1955 Jul 18	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A685	2435306.50	1955 Jul 18	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A686	2435314.50	1955 Jul 26	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A687	2435316.50	1955 Jul 28	Honest John	-	-	0.000	ORDRSA	AU	-	-	Test	wsmr.history.org	-	-
1955-A471	2435365.50	1955 Sep 15	HJ Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1955-A499	2435462.50	1955 Dec 21	HJ Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1956-A32	2435541.50	1956 Mar 9	HJ Nike T40 T55	-	-	0.000	PARD	AF	U	-	Test	RP-1028	AWST561022-52	-
1956-A46	2435572.50	1956 Apr 9	HJ Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A61	2435632.50	1956 Jun 8	HJ Nike Tri-Deacon T40	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A69	2435659.50	1956 Jul 5	HJ Nike T40	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A80	2435709.50	1956 Aug 24	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AF	U	-	Reentry Test	RP-1028	-	-
1956-M05	2435757.50	1956 Oct 11	HJ Nike	-	-	0.000	PARD	SS	-	PARD/	Reentry Test	RP-1028	TN-D-955	-
1956-A126	2435827.50	1956 Dec 20	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A05	2435862.50	1957 Jan 24	HJ Nike	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	TN-D-807	-
1957-A20	2435915.50	1957 Mar 18	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A22	2435938.50	1957 Apr 10	HJ Nike	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A51	2436008.50	1957 Jun 19	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A71	2436052.50	1957 Aug 2	HJ Nike	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A87	2436079.50	1957 Aug 29	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A117	2436119.50	1957 Oct 8	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-A123	2436136.50	1957 Oct 25	HJ Nike Nike	-	-	0.000	AFCRL?	AS	-	-	Reentry Test	RP-1028	-	-
1958-A04	2436226.50	1958 Jan 23	HJ Nike	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1958-A12	2436262.50	1958 Feb 28	HJ Nike Nike	-	-	0.000	AFCRL?	AS	-	-	Reentry Test	RP-1028	-	-
1958-A36	2436317.50	1958 Apr 24	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1958-A43	2436339.50	1958 May 16	HJ Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A176	2436371.50	1958 Jun 17	Improved Honest John	-	1RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S89	2436380.50	1958 Jun 26	Exos	-	-	0.000	PARD/AFCRL	SS	-	UMI/Hansen	Test	WDCRF	TN-D-219	-
1958-A60	2436381.50	1958 Jun 27	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1958-A177	2436393.50	1958 Jul 9	Improved Honest John	-	2RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-A71	2436395.50	1958 Jul 11	Jason	-	J-A	0.000	AFSWC	SF	U	AFSWC/Allen,L.	Test	RP-1028	-	-
1958-A75	2436401.50	1958 Jul 17	Jason	-	J-B	0.000	AFSWC	SF	U	AFSWC/Allen,L.	Test	RP-1028	-	-
1958-A178	2436408.50	1958 Jul 24	Improved Honest John	-	3RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S128	2436416.50	1958 Aug 1	Jason	-	J-CX	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Test	RP-1028	-	-
1958-A179	2436421.50	1958 Aug 6	Improved Honest John	-	4RM	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-A180	2436427.50	1958 Aug 12	Improved Honest John	-	5RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S162	2436430.68	1958 Aug 15 0416	Jason	-	Jason 1822	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-A181	2436434.50	1958 Aug 19	Improved Honest John	-	Special	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S165	2436435.98	1958 Aug 20 1127	Jason	-	Jason 1841	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-A182	2436440.50	1958 Aug 25	Improved Honest John	-	6RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-A183	2436440.50	1958 Aug 25	Improved Honest John	-	7RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S166	2436441.26	1958 Aug 25 1817	Jason	-	Jason 1859	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	RP-1028	-
1958-S169	2436442.65	1958 Aug 27 0333	Jason	-	Jason 1909	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S171	2436442.68	1958 Aug 27 0424	Jason	-	Jason 1914	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S173	2436442.78	1958 Aug 27 0642	Jason	-	Jason 1917	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S174	2436442.81	1958 Aug 27 0729	Jason	-	Jason 1913 J-15	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S179	2436445.66	1958 Aug 30 0348	Jason	-	Jason 2019 J-16	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S180	2436445.69	1958 Aug 30 0431	Jason	-	Jason 2022	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S181	2436445.72	1958 Aug 30 0518	Jason	-	Jason 2021 J-17	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S182	2436445.74	1958 Aug 30 0552	Jason	-	Jason 2023	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S183	2436445.77	1958 Aug 30 0636	Jason	-	Jason 2025	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S184	2436445.81	1958 Aug 30 0721	Jason	-	Jason 2024 J-18	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S185	2436446.42	1958 Aug 30 2202	Jason	-	Jason 2027 J-19	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-S186	2436446.46	1958 Aug 30 2303	Jason	-	Jason 2026	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S189	2436446.50	1958 Aug 31 0007	Jason	-	Jason 2020	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S190	2436449.29	1958 Sep 2 1902	Jason	-	Jason 2041	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S191	2436449.34	1958 Sep 2 2003	Jason	-	Jason 2042 J-20	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-S192	2436449.43	1958 Sep 2 2215	Jason	-	Jason 2043	0.000	AFSWC	SS	-	AFSWC/Allen,L.	Nuclear Obs	WDCRF	-	-
1958-A184	2436469.50	1958 Sep 23	Improved Honest John	-	8RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-S205	2436471.50	1958 Sep 25	Exos	-	-	0.000	PARD/AFCRL	SS	-	UMI/Hansen	Test	WDCRF	TN-D-219	-
1958-A185	2436476.50	1958 Sep 30	Improved Honest John	-	10RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1958-A132	2436482.50	1958 Oct 6	HJ Nike Nike Recruit	-	-	0.000	USNSPO	AS	-	-	Reentry Test	RP-1028	-	-
1958-A134	2436489.50	1958 Oct 13	HJ Nike Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A140	2436513.50	1958 Nov 6	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A146	2436527.50	1958 Nov 20	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1958-A165	2436554.50	1958 Dec 17	HJ Nike	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1958-A166	2436555.50	1958 Dec 18	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-A155	2436537.50	1958 Dec?	HJ Nike Nike Recruit	-	-	0.000	USNSPO	AS	-	-	Reentry Test	RP-1028	-	-
1959-A02	2436568.50	1959	HJ Nike Nike Recruit	-	-	0.000	USNSPO	AS	-	-	Reentry Test	RP-1028	-	-
1959-A03	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1959-A04	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1959-A05	2436568.50	1959	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1959-A218	2436590.50	1959 Jan 22	Improved Honest John	-	21RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A219	2436590.50	1959 Jan 22	Improved Honest John	-	22RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A23	2436604.50	1959 Feb 5	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-S21	2436630.50	1959 Mar 3	Trailblazer 1	-	TB I alpha	0.000	LARCN	SS	-	LARC/	Reentry Test	RP-1028	-	-
1959-S31	2436644.50	1959 Mar 17	HJ Nike Nike 20"SM	-	-	0.000	LARCN	SS	-	LARC/	Test	RP-1028	TN-D-441	-
1959-A48	2436644.50	1959 Mar 17	HJ Nike Nike Recruit T55	-	-	0.000	LARCN	AF	U	LARC/	Reentry Test	RP-1028	-	-
1959-A220	2436652.50	1959 Mar 25	Improved Honest John	-	E1RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A221	2436652.50	1959 Mar 25	Improved Honest John	-	E2RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A222	2436667.50	1959 Apr 9	Improved Honest John	-	E3RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A223	2436658.50	1959 Apr	Improved Honest John	-	E4RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A224	2436658.50	1959 Apr	Improved Honest John	-	E5RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A225	2436658.50	1959 Apr	Improved Honest John	-	E6RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A226	2436658.50	1959 Apr	Improved Honest John	-	E7RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A227	2436658.50	1959 Apr	Improved Honest John	-	E8RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A228	2436658.50	1959 Apr	Improved Honest John	-	E9RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A229	2436658.50	1959 Apr	Improved Honest John	-	E10RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A230	2436688.50	1959 May	Improved Honest John	-	E11RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A231	2436693.50	1959 May 5	Improved Honest John	-	E12RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A81	2436713.50	1959 May 25	HJ Nike Nike	-	-	0.000	PARD	AS	-	LARC/	Reentry Test	RP-1028	-	-
1959-A84	2436715.50	1959 May 27	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-A232	2436721.50	1959 Jun 2	Improved Honest John	-	E13RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A233	2436721.50	1959 Jun 2	Improved Honest John	-	E14RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A234	2436721.50	1959 Jun 2	Improved Honest John	-	E15RM	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A235	2436724.50	1959 Jun 5	Improved Honest John	-	E16RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A236	2436724.50	1959 Jun 5	Improved Honest John	-	E17RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-S82	2436724.68	1959 Jun 5 0415	Trailblazer 1	-	TB I beta	0.000	LARCN	SS	-	LARC/	Reentry Test	RP-1028	-	-
1959-A237	2436738.50	1959 Jun 19	Improved Honest John	-	E18RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-A238	2436751.50	1959 Jul 2	Improved Honest John	-	E37RO	0.000	ARGMA	AS	-	-	Test	IHJ-History	-	-
1959-S104	2436756.97	1959 Jul 7 1115	Javelin	-	JV-1	0.000	AFSWC	SS	-	LMSC/AFSWC/Walt,Knecht	Test/Particles	RP-1028	SR1,910	-
1959-A115	2436761.50	1959 Jul 12	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	LARC/	Reentry Test	RP-1028	-	-
1959-S114	2436770.50	1959 Jul 21	Javelin	-	JV-2	0.000	AFSWC	SF	U	LMSC/AFSWC/	Test	RP-1028	-	-
1959-A130	2436780.50	1959 Jul 31	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-A139	2436798.50	1959 Aug 18	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-A155	2436813.50	1959 Sep 2	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-A158	2436820.50	1959 Sep 9	HJ Nike Nike Recruit	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1959-A176	2436863.50	1959 Oct 22	HJ	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1959-S238	2436883.00	1959 Nov 10 1200:00	Strongarm	-	OB11.01	0.000	BRL/UMI	HS	-	UMI/BRL/Hansen	Test/Ionos	RP-1028	UM	-
1959-A191	2436891.62	1959 Nov 19 0300	Strongarm	-	OB11.02	0.000	BRL/UMI	HF	S3	UMI/BRL/Hansen	Test/Ionos	BRL-1187	RP-1028	-
1959-A196	2436897.50	1959 Nov 25	HJ Nike Nike Recruit T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1959-S259	2436903.75	1959 Dec 1 0600	Trailblazer 1	-	TB I gamma	0.000	LARCN	SS	-	LARC/	Reentry Test	Ulrich/FDC	RP-1028	-
1959-S276	2436924.83	1959 Dec 22 0756	Javelin	-	NASA 8.01GT	0.000	GSFC	SS	-	GSFC/NRL/DRTE/Winckler	Test/RF Astron	WDCRF	-	-
1960-S12	2436948.70	1960 Jan 15 0452	Javelin	-	JV-3	0.000	AFSWC	SS	-	NRL/Chubb,Friedman	Test/LyAlpha	RP-1028	AnnalesGeo17,245	-
1960-S21	2436959.74	1960 Jan 26 0542	Javelin	-	NASA 8.02GT	0.000	GSFC	SS	-	GSFC/NRL/DRTE/Winckler	Test	WDCRF	-	-
1960-A51	2436984.22	1960 Feb 19 1718	Exos	-	CRL AA13.320C	0.000	AFCRL	SF	U	UMI/	CR	WDCRF	-	-
1960-S66	2437022.50	1960 Mar 29	Trailblazer 1	-	TB Ia	0.000	LARCN	SS	-	LARC/	Reentry Test	RP-1028	-	-
1960-A102	2437050.50	1960 Apr 26	HJ Nike Gosling	-	-	0.000	LARCN	SF	U	LARC/	Reentry Test	RP-1028	TN-D-967	-
1960-S146	2437111.76	1960 Jun 26 0617	Trailblazer 1	-	TB Ib	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	RP-1028	-
1960-M18	2437116.35	1960 Jun 30 2025	Javelin	-	NASA 8.07GE	0.000	GSFC	SF	S3	GSFC/Heppner	Magnetospheric	WDCRF	-	-
1960-S173	2437129.12	1960 Jul 13 1446:53	Strongarm	-	OB11.03	0.000	BRL/UMI	SF	S4	BRL/Berning	Ionos	WDCRF	RP-1028	-
1960-S174	2437129.61	1960 Jul 14 0243:24	Strongarm	-	OB11.04	0.000	BRL/UMI	SF	S5	BRL/Berning	Ionos	WDCRF	RP-1028	-
1960-S216	2437148.63	1960 Aug 2 0314	Strongarm	-	OB11.05	0.000	BRL/UMI	SF	S4	BRL/Berning	Ionos	WDCRF	RP-1028	-
1960-A188	2437149.50	1960 Aug 3	HJ Nike Nike Recruit	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-M23	2437159.94	1960 Aug 13 1035	HJ Nike	-	AA5.423	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S238	2437161.94	1960 Aug 15 1035	HJ Nike	-	AA5.424	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S252	2437172.10	1960 Aug 25 1428	HJ Nike	-	AA5.431	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S255	2437175.65	1960 Aug 29 0338	Trailblazer 1	-	TB Ic	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1960-S256	2437175.76	1960 Aug 29 0613	Trailblazer 1	-	TB Id	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1960-A240	2437218.50	1960 Oct 11	HJ Nike	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-A246	2437226.50	1960 Oct 19	HJ Nike Gosling	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-S334	2437229.63	1960 Oct 22 0309	Trailblazer 1	-	TB Ie	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1960-A237	2437207.50	1960 Oct	HJ Nike Gosling	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-S354	2437248.57	1960 Nov 10 0144	Javelin	-	NASA 8.04CA	0.000	GSFC	SS	-	LPARL/Dubin,Hansen	Aeronomy	WDCRF	-	-
1960-A284	2437269.50	1960 Dec 1	HJ Nike Nike Recruit T55	-	-	0.000	LARCN	SS	-	LARC/	Reentry Test	RP-1028	TN-D-1500	-
1960-S399	2437279.44	1960 Dec 10 2230	Javelin	-	NASA 8.05CA	0.000	GSFC	SS	-	GCA/Dubin	Aeronomy	WDCRF	SR2,974	-
1960-S403	2437281.44	1960 Dec 12 2236	Javelin	-	NASA 8.08GE	0.000	GSFC	SS	-	GSFC/Heppner	Magnetospheric	WDCRF	-	-
1961-S22	2437317.67	1961 Jan 18 0400	Trailblazer 1	-	TB If	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	RP-1028	-
1961-S45	2437344.50	1961 Feb 14	Strongarm	-	E22-H1-1	0.000	BRL	HF	S5	BRL/AFCRL/Swenson	Test	RP-1028	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S53	2437348.50	1961 Feb 18	Strongarm	-	E22-H1-2	0.000	BRL	HS	-	BRL/AFCRL/Swenson	Test	RP-1028	-	-
1961-U02	2437410.75	1961 Apr 21 0556:20	Trailblazer 1	-	TB Ig	0.001	LARCN	SS	-	AFCRL/Soberman	Reentry Test	SAO-SR317	TN-D-2053	-
1961-S128	2437417.33	1961 Apr 27 2002	Javelin	-	NASA 8.10GI	0.000	GSFC	SS	-	GSFC/Jackson	Ionos	WDCRF	TN-D-413	-
1961-S153	2437437.76	1961 May 18 0610	Trailblazer 1	-	TB Ih	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1961-S177	2437463.72	1961 Jun 13 0512	Javelin	-	NASA 8.09GI	0.000	GSFC	SS	-	GSFC/Jackson	Ionos	WDCRF	-	-
1961-S179	2437465.50	1961 Jun 15 0002:59	Javelin	-	NASA 8.13II	0.000	GSFC	SS	-	DRTE/CRC/Molozzi	Ionos	WDCRF	-	-
1961-S187	2437475.47	1961 Jun 24 2317	Javelin	-	NASA 8.15AI	0.000	GSFC	SS	-	NBSC/CHAIL/Knecht	Ionos	TN-D-1538	SR3,271	-
1961-M20	2437507.99	1961 Jul 27 1145	Strongarm	1	CRL AA11.501	0.000	AFCRL	HF	U	AFCRL/Ashenfelter	Aeron	WDCRF	AFCRL	-
1961-S235	2437523.10	1961 Aug 11 1430	Exos	-	CRL AA13.194	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Test/Ionos	WDCRF	-	-
1961-S282	2437555.90	1961 Sep 13 0932	Javelin	-	NASA 8.06CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1961-S283	2437556.50	1961 Sep 13 2353	Javelin	-	NASA 8.22CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1961-S289	2437559.70	1961 Sep 17 0447	Trailblazer 1	-	TB Ii	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1961-S329	2437583.24	1961 Oct 10 1740	Javelin	-	NASA 8.23GA	0.000	GSFC	HS	-	GSFC/Taylor,Spencer	Aeronomy	WDCRF	-	-
1961-S333	2437586.68	1961 Oct 14 0426	Javelin	-	NASA 8.17AI	0.000	GSFC	SS	-	GSFC/Jackson,Knecht	Ionos	TN-D-1538	SR3,271	-
1961-S381	2437621.17	1961 Nov 17 1606	Javelin	-	-	0.000	AFSWC?	SS	-	AFSWC/?	Aeron	WDCRF	-	-
1962-S35	2437702.99	1962 Feb 7 1150	Javelin	-	NASA 8.16AI	0.000	GSFC	SS	-	GSFC/Jackson	Ionos	WDCRF	SR3,271	-
1962-S86	2437757.71	1962 Apr 3 0457	Trailblazer 1	-	TB Ij	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1962-S124	2437788.33	1962 May 3 2000	Javelin	-	NASA 8.21GI	0.000	GSFC	SS	-	GSFC/Serbu	Ionos	WDCRF	-	-
1962-S228	2437854.87	1962 Jul 9 0850	Javelin	-	Project 6.4/J1	0.000	AFCRL	SS	-	AFCRL/Pfister	Ionos	WDCRF	-	-
1962-A107	2437854.87	1962 Jul 9 0858:30	HJ Nike	-	Project 6.3/X-3	0.000	BRL	SF	U	BRL/Berning	Ionos	AD-A955411	AFCRL2	-
1962-S236	2437854.88	1962 Jul 9 0907:00	HJ Nike	-	Project 6.3/X-4	0.000	BRL	SS	-	BRL/Berning	Ionos	AD-A955411	AFCRL2	-
1962-S229	2437854.88	1962 Jul 9 0907:00	Javelin	-	Project 6.4/J2	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Ionos	AD-A955411	-	-
1962-S623	2437854.89	1962 Jul 9 0916	Javelin	-	Project 6.4	0.000	AFCRL	SS	-	AFCRL/	Ionos	AD-A955411	-	-
1962-S624	2437854.89	1962 Jul 9 0920:12	Javelin	-	Project 6.2	0.000	BRL	SS	-	BRL/Berning	Ionos	AD-A955411	-	-
1962-S625	2437854.90	1962 Jul 9 0940	Javelin	-	Project 6.2	0.000	BRL	SS	-	BRL/Berning	Ionos	AD-A955411	-	-
1962-S254	2437868.50	1962 Jul 23	Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	WDCRF	-	-
1962-S270	2437873.62	1962 Jul 28 0250	Trailblazer 1	-	TB Ik	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	-	-
1962-S277	2437880.24	1962 Aug 3 1746	Exos	-	-	0.000	AFCRL	SS	-	AFCRL/Ulwick,Vancour	Ionos	WDCRF	-	-
1962-S383	2437948.50	1962 Oct 11	HJ Nike	?	-	0.000	BRL?	SU	-	UMI/Smith.L	Aeron	WDCRF	-	-
1962-S408	2437958.50	1962 Oct 21	HJ Nike	?	-	0.000	BRL?	SU	-	UMI/Smith.L	Aeron	WDCRF	-	-
1962-S417	2437961.30	1962 Oct 23 1910:00	HJ Nike Nike	-	AC20.463	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Wright	Ionos	WDCRF	-	-
1962-S420	2437962.75	1962 Oct 25 0600	Exos	-	CRL AA13.195	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	WDCRF	-	-
1962-S429	2437963.92	1962 Oct 26 0958	HJ Nike	-	X-11	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S430	2437963.92	1962 Oct 26 1005	HJ Nike	-	X-12	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S431	2437963.92	1962 Oct 26 1011	HJ Nike	-	X-14	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S433	2437963.93	1962 Oct 26 1022	HJ Nike	-	X-17	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S425	2437963.50	1962 Oct 26	Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/Narcisi	Ionos	AFCRL	-	-
1962-S438	2437966.50	1962 Oct 29	HJ Nike	?	-	0.000	BRL?	SU	-	UMI/Smith.L	Aeron	WDCRF	-	-
1962-S451	2437969.48	1962 Oct 31 2332:00	HJ Nike Nike	-	AC20.461	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S454	2437970.01	1962 Nov 1 1208	HJ Nike	-	X-20	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S455	2437970.01	1962 Nov 1 1216	HJ Nike	-	X-24	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S457	2437970.02	1962 Nov 1 1224	HJ Nike	-	X-27	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S458	2437970.03	1962 Nov 1 1240	HJ Nike	-	X-28	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL2	-	-
1962-S459	2437970.69	1962 Nov 2 0427:59	HJ Nike Nike	-	AC20.462	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S491	2437995.50	1962 Nov 27	Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Ionos	AFCRL	-	-
1962-S496	2437996.50	1962 Nov 28 0000	HJ Nike Nike	-	AC20.454	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S526	2438002.70	1962 Dec 4 0445:00	HJ Nike Nike	-	AC20.455	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S532	2438003.58	1962 Dec 5 0151:00	HJ Nike Nike	-	AC20.460	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S539	2438004.93	1962 Dec 6 1021	HJ Nike Nike	-	AC20.459	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S558	2438011.49	1962 Dec 12 2346	HJ Nike Nike	-	AC20.456	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S566	2438013.49	1962 Dec 14 2352	HJ Nike Nike	-	AC20.458	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1962-A262	2438017.27	1962 Dec 18 1830	HJ Nike	-	-	0.000	AFASD	AS	-	-	Parachute Test	Ulrich	-	-
1963-A02	2438029.50	1963?	HJ PRV	-	-	0.000	LARCN	AS	-	-	Test	TN-D-2438	-	-
1963-A233	2438068.05	1963 Feb 7 1311	HJ Nike	-	-	0.000	AFASD	AS	-	-	Parachute Test	Ulrich	-	-
1963-S54	2438076.50	1963 Feb 16	Trailblazer 1	-	TB Il	0.000	LARCN	SS	-	LARC/	Reentry Test	RP-1028	-	-
1963-A234	2438082.05	1963 Feb 21 1310	HJ Nike	-	-	0.000	AFASD	AS	-	-	Parachute Test	Ulrich	-	-
1963-A191	2438106.50	1963 Mar 18	HJ PRV	-	-	0.000	LARCN	AS	-	NRL/LARC/	Test	GE-635D823	-	-
1963-S680	2438111.50	1963 Mar 23	Trailblazer 1	-	TB Im	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	-	-
1963-A192	2438156.50	1963 May 7	HJ PRV	-	-	0.000	LARCN	AS	-	NRL/LARC/	Test	GE-635D823	-	-
1963-S658	2438131.39	1963 Apr 11 2121	HJ Nike Nike	-	-	0.000	AFASD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-A235	2438170.23	1963 May 20 1730	HJ Nike	-	-	0.000	AFASD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-S240	2438175.73	1963 May 26 0534:00	HJ Nike	-	Sandia	0.000	SAND	SU	-	SAND/?	Aeron	WDCRF	SandNews630426	-
1963-S659	2438208.34	1963 Jun 27 2003	HJ Nike Nike	-	-	0.000	AFASD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-S322	2438213.10	1963 Jul 2 1418	Javelin	-	NASA 8.14GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	WDCRF	-	-
1963-S355	2438236.44	1963 Jul 25 2238	Exos	-	CRL AC13.831	0.000	AFCRL	SS	-	AFCRL/Wong	Ionos	WDCRF	-	-
1963-A229	2438242.23	1963 Jul 31 1730	HJ Nike Nike	-	-	0.000	AFASD	AF	U	WADD/	Parachute Test	Ulrich	-	-
1963-S660	2438257.21	1963 Aug 15 1701	HJ Nike Nike	-	-	0.000	AFASD	SS	-	WADD/	Parachute Test	Ulrich	-	-
1963-S661	2438263.34	1963 Aug 21 2007	HJ Nike Nike	-	-	0.000	AFASD	SS	-	WADD/	Parachute Test	Ulrich	-	-
1963-A124	2438276.23	1963 Sep 3 1737	HJ Nike	-	-	0.000	AFASD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-S662	2438285.00	1963 Sep 12 1154	HJ Nike	-	-	0.000	AFASD	AS	-	WADD/	Parachute Test	Ulrich	MR630923-12	-
1963-S468	2438301.61	1963 Sep 29 0237	Javelin	-	NASA 8.18GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	TN-D-2964	SP-4004	-
1963-S559	2438351.50	1963 Nov 18	HJ Nike Nike	-	HAD-1	0.000	AEC/LRL	SS	-	LRL/	Test	VAFB	FDS	-
1964-S39	2438411.71	1964 Jan 17 0501	Javelin	-	NASA 8.31DA	0.000	GSFC	SS	-	NRL/Hoffmann	Aeronomy	CD-82513	WDCRF	-
1964-A19	2438431.50	1964 Feb 6	HJ Nike Nike	-	HAD-2	0.000	AEC/LRL	SF	U	LRL/	Solar X	UCRL-50587	-	-
1964-S149	2438468.50	1964 Mar 14	HJ Nike Nike	-	HAD-3	0.000	AEC/LRL	SS	-	LRL/	Solar X	VAFB	-	-
1964-S210	2438501.48	1964 Apr 15 2325	Javelin	-	NASA 12.03GT/GI	0.000	GSFC	SS	-	GSFC/Guidotti	Ionospheric/Test	WDCRF	TN-D-2953	-
1964-A214	2438555.08	1964 Jun 8 1354	HJ Nike	-	ADDPEP TB-1A	0.000	AFASD	AS	-	-	Test	AFFDL-TR-67-25	-	-
1964-A215	2438605.10	1964 Jul 28 1430	HJ Nike	-	ADDPEP TB-1B	0.000	AFASD	AS	-	-	Test	AFFDL-TR-67-25	-	-
1964-A216	2438625.28	1964 Aug 17 1839	HJ Nike Nike	-	ADDPEP TB-2	0.000	AFASD	AS	-	-	Test	AFFDL-TR-67-25	-	-
1964-S509	2438676.66	1964 Oct 8 0352	Javelin	-	NASA 8.03CA/CI	0.000	GSFC	SS	-	LPARL/Sharp	Ionos/Aeron	WDC/Ulrich	WDCRF	-
1964-S531	2438688.15	1964 Oct 19 1542	Javelin	-	NASA 8.24GI-II	0.000	GSFC	SS	-	GSFC/RRL/Hirao,Serbu	Ionos	WDCRF	-	-
1964-S537	2438692.17	1964 Oct 23 1600	Javelin	-	NASA 8.33GR	0.000	GSFC	SS	-	GSFC/Stone,Weber,Alex.	RF Astron	WDCRF	-	-
1964-S583	2438705.29	1964 Nov 5 1903	Javelin	-	NASA 8.34CA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	PlanSpSci16,929	CR-68095	-
1964-S585	2438705.36	1964 Nov 5 2039	Javelin	-	NASA 8.19DI	0.000	GSFC	SS	-	BRL/Zanacanta	Ionos	WDCRF	CR-68095	-
1964-S600	2438706.72	1964 Nov 7 0514	Javelin	-	NASA 8.20DI	0.000	GSFC	SS	-	BRL/UMI/Zanacanta,Nagy	Ionos	WDCRF	PlanSpaSci15,95	-
1964-S653	2438729.50	1964 Nov 30	HJ Nike Nike	-	Sandia 152-13	0.000	SAND	SS	-	LRL/	Test	UCRL-50587	FDS	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S35	2438774.22	1965 Jan 13 1712	Javelin	-	NASA 8.28UI	0.000	GSFC	SS	-	PSU/Schmerling,Nisbet	Ionos	WDCRF	MR650118-11	-
1965-S132	2438824.27	1965 Mar 4 1832	HJ Nike Nike	-	Sandia 152-16	0.000	SAND	SS	-	LRL/	Test	FDS	UCRL-50587	-
1965-S300	2438900.34	1965 May 19 2011:00	Javelin	-	NASA 8.29UI	0.000	GSFC	SS	-	PSU/Nisbet,King	Ionos	PSU-IRL-267	MR650524-10	-
1965-S310	2438906.47	1965 May 25 2320	Exos	-	CRL AD13.815	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1965-S316	2438907.29	1965 May 26 1901	Javelin	-	NASA 8.37GI	0.000	GSFC	SF	U	GSFC/Maier	Ionos	WDCRF	SP-4006	-
1965-S317	2438907.47	1965 May 26 2320	Exos	-	CRL AD13.812	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1965-S345	2438918.24	1965 Jun 6 1745	HJ Nike	?	-	0.000	DASA	SS	-	DASA/	Ionos	WDCRF	-	-
1965-S353	2438924.14	1965 Jun 12 1515	HJ Nike Nike	-	Sandia 152-80	0.000	SAND	SS	-	LRL/Chodil	XR Astron	FDS	UCRL-50587	-
1965-S364	2438929.84	1965 Jun 18 0806:00	HJ Nike	?	-	0.000	SAND	SU	-	DASA/SAND/Smith	Aeron	WDCRF	-	-
1965-A237	2438930.14	1965 Jun 18 1517	HJ Nike Nike	-	ADDPEP TB-3	0.000	AFASD	AS	-	-	Test	AFFDL-TR-67-25	-	-
1965-S370	2438933.75	1965 Jun 22 0600:00	HJ Nike	?	-	0.000	SAND	SU	-	DASA/SAND/Smith	Aeron	WDCRF	-	-
1965-S388	2438935.75	1965 Jun 24 0607:00	HJ Nike	?	-	0.000	SAND	SU	-	DASA/SAND/Smith	Aeron	WDCRF	-	-
1965-S391	2438941.24	1965 Jun 29 1745	HJ Nike Javelin	-	DASA 6.4	0.000	DASA	SS	-	DASA/	Aeron?	AFCRL2	-	-
1965-S478	2438998.27	1965 Aug 25 1831	Javelin	-	NASA 8.11UA	0.000	GSFC	SS	-	PITT/Damon	Aeronomy	WDCRF	-	-
1965-S508	2439027.11	1965 Sep 23 1436	Javelin	-	NASA 8.36GI	0.000	GSFC	SS	-	GSFC/Maier,Serbu	Ionos	WDCRF	-	-
1965-S540	2439038.53	1965 Oct 5 0042	Javelin	-	NASA 8.30UI	0.000	GSFC	SS	-	PSU/Nisbet,King	Ionos	WDCRF	-	-
1965-A143	2439043.56	1965 Oct 10 0125	Javelin	-	NASA 8.42UI	0.000	GSFC	SF	U	PSU/Nisbet,King	Ionos	WDCRF	SP-4006	-
1965-A146	2439048.50	1965 Oct 15	HJ PRV	-	Pacemaker	0.000	LARCN	SS	-	LARC/	Reentry test	TN-D-4713	-	-
1965-S591	2439067.33	1965 Nov 2 2000	Exos	-	CRL AE13.559	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL2	MR651115-12	-
1965-S794	2439080.50	1965 Nov 16	HJ Nike Nike	-	Sandia?	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist65	-	-
1965-S602	2439073.50	1965 Nov 9	HJ Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron?	MR651122-11	-	-
1965-S619	2439081.46	1965 Nov 16 2300	HJ Nike Nike	-	Sandia 152-90	0.000	SAND	SS	-	LRL/	Aeron	FDS	UCRL-50587	-
1965-A232	2439085.06	1965 Nov 20 1330	HJ Nike	-	-	0.000	AFCRL	SF	U	AFCRL/?	Ionos	AP	-	-
1966-S146	2439187.25	1966 Mar 2 1759	Javelin	-	NASA 8.25GA-GI	0.000	GSFC	SS	-	GSFC/Pelz,Brace	Aeron/Ionos	WDCRF	CR-76317	-
1966-S244	2439246.72	1966 May 1 0517	Javelin	-	CRL AD19.286	0.000	AFCRL	SS	-	AFCRL/Vancour	Auroral/Fields	FC	AFCRL	-
1966-M18	2439257.47	1966 May 11 2320	HJ Nike Nike	-	Sandia 152-81	0.000	SAND	SF	U	LRL/	XR Astron	FDS	UCRL-50587	-
1966-S272	2439266.29	1966 May 20 1904	Javelin	-	NASA 8.44GR	0.000	GSFC	SS	-	GSFC/Stone	RF Astron	WDCRF	-	-
1966-S367	2439319.38	1966 Jul 12 2100	Javelin	-	NASA 8.12UA	0.000	GSFC	SS	-	PITT/Damon,Donahue	Aeronomy	WDCRF	-	-
1966-S347	2439305.18	1966 Jun 28 1623	Javelin	-	CRL AC19.191	0.000	AFCRL	SS	-	AFCRL/UUT/Ulwick	Ionos	AFCRL2	-	-
1966-S402	2439335.29	1966 Jul 28 1900	HJ Nike Nike	-	Sandia 152-44	0.000	SAND	SS	-	LRL/	Aeronomy	FDS	UCRL-50587	-
1966-S403	2439337.50	1966 Aug	HJ Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron?	JCM	-	-
1966-S440	2439353.27	1966 Aug 15 1828	Javelin	-	NASA 8.32DA	0.000	GSFC	SS	-	NRL/Johson	Aeronomy	WDCRF	SP-4007	-
1966-S503	2439392.88	1966 Sep 24 0913	Javelin	-	NASA 8.27IA	0.000	GSFC	SS	-	MPE/Neuss	Aeronomy	SP-264	-	-
1966-S532	2439405.35	1966 Oct 6 2029	Javelin	-	NASA 8.38GI	0.000	GSFC	SS	-	GSFC/Meier,Barrington	Ionos	WDCRF	-	-
1966-A127	2439429.50	1966 Oct 31	HJ PRV	-	Pacemaker	0.000	LARCN	SS	-	LARC/	Reentry test	SP-4007	ISTS8/TN-D-4791	-
1966-A135	2439434.50	1966 Nov 5	HJ Nike	-	PEPP [F1]	0.000	LARCN	SS	-	LARC/	Test	SP-4007	-	-
1966-A140	2439450.50	1966 Nov 21	HJ Nike	-	PEPP [F2]	0.000	LARCN	SS	-	LARC/	Test	Ulrich/Wire	SP-4007	-
1966-A143	2439454.07	1966 Nov 24 1345	HJ Nike	-	PEPP 02 [F2]	0.000	LARCN	SS	-	LARC/	Test	TM-X-1414	-	-
1966-A151	2439470.22	1966 Dec 10 1712	HJ Nike	-	PEPP [F3]	0.000	LARCN	SS	-	LARC/	Test	TM-X-1451	SP-4007	-
1967-A01	2439490.50	1967 Jan	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	-	Aeron?	WSMR	-	-
1967-S119	2439530.76	1967 Feb 9 0616	Javelin	-	NASA 8.41UE	0.000	GSFC	SS	-	RICE/O'Brien	Plasma	WDCRF	-	-
1967-A54	2439549.50	1967 Feb 28	HJ Nike	-	PEPP	0.000	LARCN	SS	-	LARC/	Test	TM-X-1542	-	-
1967-S165	2439567.74	1967 Mar 18 0547	Javelin	-	NASA 8.47UE	0.000	GSFC	SS	-	RICE/O'Brien	Plasma	JGR74,351	MR670403-13	-
1967-S209	2439592.72	1967 Apr 12 0522	Javelin	-	NASA 8.39GI	0.000	GSFC	SS	-	GSFC/Maier,Barrington	Ionos	SR9,279	SP-4008	-
1967-A78	2439620.24	1967 May 9 1745	HJ Nike	-	PEPP 05	0.000	LARCN	SS	-	LARC/	Test	TM-X-1484	SP-4008	-
1967-S262	2439628.37	1967 May 17 2058	Javelin	-	NASA 8.43UA	0.000	GSFC	SS	-	PITT/Damon	Aeronomy	WDCRF	SP-4008	-
1967-S304	2439657.94	1967 Jun 16 1037	Javelin	-	NASA 8.49IE	0.000	GSFC/DFVLR	SS	-	MPAE/Pieper,Keppler	Tech/Plasma	WDCRF	SP-4008	-
1967-S305	2439658.85	1967 Jun 17 0830	Javelin	-	NASA 8.50IE	0.000	GSFC/DFVLR	SS	-	MPAE/Pieper,Keppler	Tech/Plasma	WDCRF	-	-
1967-A92	2439662.16	1967 Jun 20 1545	HJ Nike	-	PEPP 04 [F6]	0.000	LARCN	SS	-	LARC/	Test	TM-X-1542	SP-4008	-
1967-S310	2439663.29	1967 Jun 21 1902	Javelin	-	NASA 8.26UI	0.000	GSFC	SS	-	UTD/Hanson,Flowerday	Ionos	WDCRF	SP-4008	-
1967-A113	2439753.15	1967 Sep 19 1532	HJ Nike Nike	-	PEPP/SPED-I	0.000	LARCN	SS	-	LARC/	Test	TM-X-1575	TM-X-61215	-
1967-A114	2439733.50	1967 Sep	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1967-S447	2439754.82	1967 Sep 21 0738	Javelin	-	NASA 8.45UI	0.000	GSFC	SS	-	UIA/Gurnett	Ionos	WDCRF	-	-
1967-A121	2439781.24	1967 Oct 17 1745	HJ Nike Nike	-	PEPP/SPED-I	0.000	LARCN	SS	-	LARC/	Test	TM-X-1623	-	-
1967-A132	2439794.50	1967 Nov	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1967-S573	2439832.54	1967 Dec 8 0100	Javelin	-	NASA 8.35UI	0.000	GSFC	SS	-	UTD/Schmerling,Hanson	Ionos	WDCRF	SP-4008	-
1968-M01	2439855.50	1968?	HJ Nike Nike	?	-	0.000	LARCN	SS	-	LARC/	Test	TN-D-4943	-	-
1968-A65	2439915.50	1968 Mar	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1968-S163	2439917.71	1968 Mar 2 0500	Javelin	-	NASA 8.48UE	0.000	GSFC	SS	-	RICE/O'Brien,Reasoner	Auroral	WDCRF	JGR78,2176	-
1968-S260	2439956.39	1968 Apr 9 2126	Javelin	-	NASA 8.40UA	0.000	GSFC	SS	-	USCLA/PITT/Damon,Judge	Aeronomy	PlanSpaSci21,879	WDCRF	-
1968-S349	2440001.72	1968 May 25 0519	Javelin	-	NASA 8.46UI	0.000	GSFC	SS	-	UIA/Gurnett	Ionos	WDCRF	-	-
1968-A119	2440035.19	1968 Jun 27 1637	HJ PRV	-	Pacemaker 7	0.000	LARCN	SS	-	LARC/O'Hare	Reentry test	WI-PR68-12	-	-
1968-A101	2440129.50	1968 Oct	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1968-A102	2440129.50	1968 Oct	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1968-M24	2440153.15	1968 Oct 23 1532	HJ Nike Nike	-	PEPP/SHAPE	0.000	LARCN	SS	-	LARC/	Test	TM-X-1924	SP-4010	-
1968-S576	2440169.87	1968 Nov 9 0855	Javelin	-	CRL AB19.287	0.000	AFCRL	SS	-	AFCRL/Vancour	Plasma	AFCRL	-	-
1968-S639	2440201.22	1968 Dec 10 1716	Javelin	-	NASA 8.51UA	0.000	GSFC	SS	-	PITT/Donahue,Damon	Aeronomy	WDCRF	-	-
1968-M28	2440201.50	1968 Dec 11	HJ Nike Nike	-	PEPP	0.000	LARCN	SS	-	LARC/	Test	SP-4010	-	-
1969-S192	2440295.71	1969 Mar 15 0506	HJ Nike Hydac	-	SECEDE R6	0.000	ARPA	SS	-	UAF/Davis	Aeronomy	WWW-PFRR	-	-
1969-S203	2440298.72	1969 Mar 18 0517	HJ Nike Hydac	-	SECEDE R7	0.000	ARPA	SS	-	UAF/Davis	Aeronomy	WWW-PFRR	-	-
1969-S330	2440357.66	1969 May 16 0353	Javelin	-	CRL AC19.289	0.000	AFCRL	SS	-	AFCRL/Hutchinson	Plasma	AFCRL	FC	-
1969-S352	2440371.87	1969 May 30 0851	Javelin	-	CRL AF19.291	0.000	AFCRL	SS	-	AFCRL/Hutchinson	Plasma	AFCRL	FC	-
1969-A94	2440391.18	1969 Jun 18 1617	HJ Nike Nike	-	PEPP	0.000	LARCN	SS	-	LARC/	Test	TN-D-5796	-	-
1969-S382	2440399.27	1969 Jun 26 1830	Javelin	-	NASA 8.53UI	0.000	GSFC	SS	-	UTD/Lippincott,Hanson	Ionos	WDCRF	-	-
1969-S786	2440399.40	1969 Jun 26 2141	HJ Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL?/	Aeron?	Ulrich/FDC	-	-
1969-A110	2440402.50	1969 Jul	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1969-A111	2440402.50	1969 Jul	HJ Nike	?	DASA 6.1	0.000	DASA	MS	-	DASA/	Aeron?	WSMR	-	-
1969-A212	2440413.23	1969 Jul 10 1730	HJ PRV	-	Pacemaker	0.000	LARCN	SS	-	LARC/	Reentry test	WI-PR69-12	-	-
1969-A211	2440571.50	1969 Dec 16	HJ Nike Nike	-	PEPP	0.000	LARCN	SS	-	LARC/	Test	TN-D-6469	-	-
1970-S85	2440613.44	1970 Jan 26 2230	Javelin	-	N-J-19	0.000	DLR	SS	-	GSOC/	Ionos?	Moraba	-	-
1970-S91	2440617.44	1970 Jan 30 2230	Javelin	-	N-J-20	0.000	DLR	SS	-	GSOC/	Ionos?	Moraba	-	-
1970-S125	2440635.82	1970 Feb 18 0734	Javelin	-	NASA 8.55UE	0.000	GSFC	SS	-	UCB/Mozer,Carlson	Plasma	WDCRF	-	-
1970-S220	2440653.28	1970 Mar 7 1847	Javelin	-	NASA 8.57CE	0.000	GSFC	SS	-	TRW/Wax	Eclipse Plasma	WDCRF	-	-
1970-S280	2440679.71	1970 Apr 3 0459	Javelin	-	NASA 8.56UE	0.000	GSFC	SS	-	UCB/Mozer	Plasma	WDCRF	-	-
1970-A73	2440758.22	1970 Jun 20 1715	HJ Nike Nike	-	PEPP/SHAPE	0.000	LARCN	SS	-	LARC/	Parachute test	TN-D-6469	-	-
1970-S501	2440831.34	1970 Sep 1 2010	Javelin	-	NASA 8.52UA	0.000	GSFC	SS	-	PITT/Donahue	Aeronomy	WDCRF	SP-4015	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S552	2440864.88	1970 Oct 5 0905	Javelin	-	NASA 8.58IE	0.000	GSFC	SS	-	MPE/Haerendel,Lust	Plasma	WDCRF	SP-4015	-
1971-S341	2441127.86	1971 Jun 25 0844	Javelin	-	NASA 8.59AI	0.000	GSFC	SS	-	NOAA/McAfee,Whipple	Ionos	WDCRF	-	-
1972-S72	2441358.21	1972 Feb 10 1702	Javelin	-	NASA 8.60AE	0.000	GSFC	SS	-	TRW/Bernstein	Plasma	WDCRF	-	-
1972-S303	2441572.73	1972 Sep 12 0531	Javelin	-	NASA 8.62GE	0.000	GSFC	SS	-	GSFC/Johnstone	Auroral	FC	SP-4017	-
1973-S239	2441881.43	1973 Jul 17 2213	Javelin	-	NASA 8.61UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1973-S395	2442005.39	1973 Nov 18 2122	Javelin	-	NASA 8.63UI-II	0.000	GSFC	SS	-	UCB/Anderson	Ionos	WDCRF	-	-
1973-S403	2442009.40	1973 Nov 22 2129	Javelin	-	NASA 8.64UI-II	0.000	GSFC	SS	-	UCB/Anderson	Ionos	WDCRF	-	-
1974-S403	2442388.50	1974 Dec 7	HJ Nike Hydac	-	-	0.000	SAMSO	SS	-	MITLL/	Reentry Test?	SAMSO	-	-
1974-S442	2442381.50	1974 Dec	HJ Nike Hydac	-	-	0.000	SAMSO	SS	-	MITLL/	Reentry Test?	SAMSO-K243.012V1	-	-
1974-S443	2442381.50	1974 Dec	HJ Nike Hydac	-	-	0.000	SAMSO	SS	-	MITLL/	Reentry Test?	SAMSO-K243.012V1	-	-
1975-S70	2442454.60	1975 Feb 11 0216:56	Javelin	-	NASA 8.65UE	0.000	GSFC	SS	-	UWI/Scherb	Ionos	FC	WDCRF	-
1975-S98	2442482.77	1975 Mar 11 0633:09	HJ Nike Javelin	-	DNA IC511.21-1A	0.000	ARPA/DNA	SS	-	AFCRL/Ulwick	Auroral?	WWW-PFRR	-	-
1975-A35	2442567.50	1975 Jun 4	HJ	-	-	0.000	SAND	AS	-	SAND/	Test	JCM	-	-
1975-A49	2442651.50	1975 Aug 27	HJ	-	-	0.000	SAND	AS	-	SAND/	Test	JCM	-	-
1976-S158	2442869.89	1976 Apr 1 0928:20	HJ Hydac	-	ARPA WS650.27-1	0.000	ARPA	SS	-	SDCO/Allen	Test	WWW-PFRR	-	-
1976-A44	2442977.56	1976 Jul 18 0123	Javelin	-	NASA 12.1776GT	0.000	GSFC	SF	U	GSFC/Heppner	Test/Plasma	WDCRF	-	-
1976-S233	2442988.50	1976 Jul 29	HJ Nike Hydac	-	HAVE JEEP IV-1	0.000	SAMSO	SS	-	MITLL/	Test	JCM	-	-
1976-S323	2443095.94	1976 Nov 13 1031:30	HJ Nike Hydac	-	ARPA WS614.51-3	0.000	ARPA	SS	-	DNA/Clark	Ionos	WWW-PFRR	-	-
1976-S337	2443108.93	1976 Nov 26 1025:40	HJ Nike Hydac	-	ARPA WS614.51-4	0.000	ARPA	SS	-	DNA/Clark	Ionos	WWW-PFRR	-	-
1976-S365	2443114.46	1976 Dec 1 2308:37	HJ Hydac	-	DNA ST610.31-1	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S93	2443201.49	1977 Feb 26 2349:33	HJ Hydac	-	DNA ST710.31-2	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S95	2443205.49	1977 Mar 2 2351:00	HJ Hydac	-	DNA ST710.31-3	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S101	2443210.50	1977 Mar 7 2358:00	HJ Hydac	-	DNA ST710.31-4	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S107	2443216.46	1977 Mar 13 2258:00	HJ Hydac	-	DNA ST710.31-5	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S109	2443217.45	1977 Mar 14 2243:00	HJ Hydac	-	DNA ST710.31-6	0.000	DNA	SS	-	DNA/	Aeron/Ionos	DNA4620T	-	-
1977-S194	2443301.44	1977 Jun 6 2234	HJ Javelin	-	TE720.93-1	0.000	DNA?	SS	-	DNA/	Test	WWW-PFRR	-	-
1977-S216	2443344.29	1977 Jul 19 1900	Taurus Orion	-	NASA 12.1001WT	0.000	GSFC	SS	-	WFF/Needleman	Test	FirstDayCover	WDCRF	-
1977-S222	2443353.50	1977 Jul 29	HJ Nike Hydac	-	SRK-11	0.000	SAMSO	SS	-	MITLL/	Reentry Test?	SAMSO	-	-
1977-S282	2443462.94	1977 Nov 15 1033:40	HJ Hydac	-	ARPA WS710.51-1	0.000	ARPA	SS	-	SRI/Fremouw	Ionos	WWW-PFRR	-	-
1977-S293	2443480.32	1977 Dec 2 1934	Taurus Orion	-	NASA 12.1002WT	0.000	GSFC	SS	-	WFF/Flowers	Test	Ulrich/FDC	WISR	-
1978-S86	2443569.30	1978 Mar 1 1906	HJ Hydac	-	ARPA WS810.51-2	0.000	ARPA	SS	-	SRI/Baron	Ionos	WWW-PFRR	-	-
1978-S92	2443580.69	1978 Mar 13 0440	Taurus Orion	-	NASA 33.01UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	FC	WISR	-
1978-S94	2443580.83	1978 Mar 13 0750	Taurus Orion	-	NASA 33.02GA	0.000	GSFC	SS	-	GSFC/Gentieu	Aeronomy	FC	WISR	-
1978-S224	2443813.32	1978 Oct 31 1947	Taurus Tomahawk	-	NASA 12.1005WT	0.000	GSFC	SS	-	WFF/Flowers	Test	WI-PR78-21	Alway	-
1979-S74	2443931.20	1979 Feb 26 1653:30	Taurus Orion	-	NASA 33.04UE	0.000	GSFC	SS	-	CORN/Kelley	Aeronomy	WI-PR79-6	WISR	-
1979-S75	2443931.20	1979 Feb 26 1653:45	Taurus Orion	-	NASA 33.03UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WI-PR79-6	WISR	-
1979-S104	2443956.96	1979 Mar 24 1104:40	Taurus Tomahawk	-	NASA 12.1003UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1979-S110	2443964.94	1979 Apr 1 1031:41	Taurus Tomahawk	-	NASA 12.1004UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1979-S238	2444185.50	1979 Nov 8	Taurus Orion	-	NASA 33.08UL	0.000	GSFC	SS	-	UCO/Wilshusen	Aeron	WISR	-	-
1980-A58	2444238.50	1980 Jan?	HJ	-	Five Fuze Test	0.000	SAND	AS	-	-	Test	SandNews8002	-	-
1980-S66	2444315.00	1980 Mar 16 1155:39	Taurus Tomahawk	-	NASA 34.03UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma Ba	WDCRF	ASR4,325	-
1980-S67	2444317.83	1980 Mar 19 0759:37	Taurus Tomahawk	-	NASA 34.01UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WDCRF	-	-
1980-S70	2444320.98	1980 Mar 22 1136:37	Taurus Tomahawk	-	NASA 34.02UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WDCRF	-	-
1980-S147	2444449.29	1980 Jul 28 1900	Taurus Orion	-	NASA 33.13UE	0.000	GSFC	SS	-	UMN/Nier	Plasma	WDCRF	-	-
1980-S148	2444452.01	1980 Jul 31 1218	HJ Orion	-	NASA 33.14GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma/Test	SRctCon6	-	-
1980-S150	2444465.58	1980 Aug 14 0202	Taurus Orion	-	NASA 33.05UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1980-S169	2444497.50	1980 Sep 15	Taurus Orion	-	NASA 33.06GU?	0.000	GSFC	SS	-	GSFC/Mentall	Aeronomy	WISR	-	-
1980-S180	2444519.65	1980 Oct 7 0337:42	HJ Orion	-	NASA 33.15GE	0.000	GSFC	SS	-	GSFC/NDRE/Maynard	Plasma	SRctCon6	AND	-
1980-S182	2444521.28	1980 Oct 8 1839	Taurus Orion	-	NASA 33.07UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1980-S183	2444524.42	1980 Oct 11 2157:54	HJ Orion	-	NASA 33.16GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	SRctCon6	AND	-
1980-S189	2444530.59	1980 Oct 18 0208:14	HJ Orion	-	NASA 33.17GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	SRctCon6	AND	-
1980-S202	2444559.64	1980 Nov 16 0316:00	Taurus Orion	-	A13.073	0.000	AFGL	SS	-	USU/AFCRL/Ulwick,Stair	Ionos	AND	AFCRL	-
1980-S206	2444559.66	1980 Nov 16 0349:40	Taurus Orion	-	NASA 33.10UE	0.000	GSFC	SS	-	UIUC/BERN/Smith,Eberhar.	Auroral	ESA-SP183-89	-	-
1980-S207	2444559.68	1980 Nov 16 0415:00	Taurus Orion	-	NASA 33.11UE	0.000	GSFC	SS	-	UIUC/BERN/Smith,Eberhar.	Auroral	ESA-SP183-89	-	-
1980-S218	2444574.49	1980 Nov 30 2344:30	Taurus Orion	-	NASA 33.09UE	0.000	GSFC	SS	-	UIUC/BERN/Smith,Eberhar.	Auroral	ESA-SP183-89	-	-
1981-S77	2444670.84	1981 Mar 7 0809	Taurus Orion	-	A13.30	0.000	AFGL	SS	-	AFCRL/McMahon	Auroral	WDCRF	AFCRL	-
1981-S78	2444670.84	1981 Mar 7 0809	Taurus Orion	-	A13.20	0.000	AFGL	SS	-	AFCRL/Narcisi	Aeron/Ionos/Plasma	WDCRF	-	-
1981-S79	2444670.85	1981 Mar 7 0826	Taurus Orion	-	A13.31	0.000	AFGL	SS	-	AFCRL/McMahon	Auroral	WDCRF	AFCRL	-
1981-S86	2444688.84	1981 Mar 25 0805:16	Taurus Tomahawk	-	NASA 34.05UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WWW-PFRR	GRL9,195	-
1981-S91	2444695.88	1981 Apr 1 0904:35	Taurus Tomahawk	-	NASA 34.04UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WWW-PFRR	-	-
1981-S93	2444696.91	1981 Apr 2 0948	Taurus Orion	-	NASA 33.20GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WI-PR81-4	-	-
1981-S94	2444697.91	1981 Apr 3 0951	Taurus Orion	-	NASA 33.19GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WI-PR81-3	-	-
1981-S138	2444825.50	1981 Aug 9	Taurus Orion	-	NASA 33.22UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	WI-PR81-11	-
1981-S148	2444841.50	1981 Aug 25	Taurus Orion	-	NASA 33.06UL?	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1981-S168	2444917.50	1981 Nov 9	Taurus Orion	-	NASA 33.21UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1982-S62	2445026.66	1982 Feb 26 0350	Taurus Orion	-	NASA 33.25UL	0.000	GSFC	SS	-	PITT/Zipf	Ionos	FC	WISR	-
1982-S81	2445043.78	1982 Mar 15 0638:20	Taurus Tomahawk	-	NASA 34.08UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	JGR90A5-4281	-
1982-S94	2445058.94	1982 Mar 30 1026:35	Taurus Tomahawk	-	NASA 34.07UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma Ba	WISR	JGR89A12-10788	-
1982-S116	2445106.50	1982 May 17	Taurus Orion	-	NASA 33.28UU	0.000	GSFC	SS	-	UCO/Mount	Aeron	WISR	-	-
1982-S134	2445149.96	1982 Jun 29 1101	Taurus Orion	-	GL A13.277	0.000	AFGL	SS	-	AFCRL/Picard,Philbrick	Aeron	WDCRF	AFCRL	-
1982-S154	2445192.52	1982 Aug 11 0035	Taurus Orion	-	NASA 33.29UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1982-S193	2445298.07	1982 Nov 24 1339:48	Taurus Orion	-	NASA 33.24CE	0.000	GSFC	SS	-	SAIC/Anderson	Plasma	WISR	-	-
1983-S44	2445347.29	1983 Jan 12 1900	Taurus Orion	-	NASA 33.30UU	0.000	GSFC	SS	-	UCO/Mount	Aeron	WISR	-	-
1983-S50	2445357.04	1983 Jan 22 1302:10	Taurus Orion	-	NASA 33.23CE	0.000	GSFC	SS	-	SAIC/Anderson	Plasma	WISR	-	-
1983-A57	2445365.50	1983 Feb?	HJ	-	Sandia	0.000	SAND	AS	-	SAND/Johnston	Test	SandNews830415	-	-
1983-S59	2445377.82	1983 Feb 12 0739:15	Taurus Orion	-	NASA 33.31UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	www.pfrr.alaska.edu	-	-
1983-S66	2445396.66	1983 Mar 3 0354	Taurus Orion	-	NASA 33.26UE	0.000	GSFC	SS	-	CORN/Kelley,Pfaff	Plasma	WISR	WIPR83-4	-
1983-S73	2445406.15	1983 Mar 12 1535	Taurus Orion	-	NASA 33.27UE	0.000	GSFC	SS	-	CORN/Kelley,Pfaff	Plasma	WISR	WIPR83-4	-
1983-S81	2445414.90	1983 Mar 21 0932	Taurus Tomahawk	-	NASA 34.10UE	0.000	GSFC	SS	-	UAF/CORN/Wes.,Kel.	Plasma	WIPR83-4	JGR91A9-9933	-
1983-S82	2445416.91	1983 Mar 23 0949	Taurus Tomahawk	-	NASA 34.09UE	0.000	GSFC	SS	-	UAF/CORN/Wes.,Kel.	Plasma	WIPR83-4	JGR91A9-9923	-
1983-S118	2445507.34	1983 Jun 21 2015	Taurus Orion	-	NASA 33.33UL	0.000	GSFC	SS	-	PITT/Zipf	Aeron	WISR	-	-
1983-S126	2445530.87	1983 Jul 15 0849	Taurus Orion	-	NASA 33.34GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1983-S128	2445535.87	1983 Jul 20 0854	Taurus Orion	-	NASA 33.35GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1983-A26	2445541.12	1983 Jul 25 1447	Taurus Orion	-	NASA 33.32GU	0.000	GSFC	SF	U	GSFC/Mentall	Aeron	WISR	-	-
1983-A28	2445579.44	1983 Sep 1 2240	Taurus Nike Tomahawk	-	NASA 12.39WT	0.000	GSFC	SF	U	WFF/Flowers	Test	WISR	-	-
1983-S210	2445683.33	1983 Dec 14 1957	Taurus Nike Tomahawk	-	NASA 12.40WT	0.000	GSFC	SS	-	WFF/USU/Flowers,Howlett	Test/Ionos	WISR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-S43	2445716.26	1984 Jan 16 1820	Taurus Orion	-	NASA 33.36UU	0.000	GSFC	SS	-	UCO/Rottman	Aeron	WISR	-	-
1984-S66	2445759.22	1984 Feb 28 1713	Taurus Orion	-	NASA 33.39UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1984-S76	2445792.80	1984 Apr 2 0715:50	Taurus Nike Tomahawk	-	NASA 38.01UE	0.000	GSFC	SS	-	UAF/CORN/Wes.,Kel.	Plasma	WISR	-	-
1984-S77	2445792.80	1984 Apr 2 0717:57	Taurus Orion	-	NASA 33.42UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-
1984-S104	2445913.68	1984 Aug 1 0418	Taurus Nike Tomahawk	-	NASA 38.02UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	JGR97,A4,4085	-
1984-S105	2445919.54	1984 Aug 7 0100	Taurus Orion	-	NASA 33.43UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1984-S125	2445995.77	1984 Oct 22 0627	Taurus Orion	-	NASA 33.47UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	-	-
1984-S127	2445997.60	1984 Oct 24 0219:59	Taurus Orion	-	NASA 33.41UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	ESA-SP530-363	WISR	-
1984-A40	2446034.50	1984 Dec	HJ	-	Sandia	0.000	SAND	AS	-	SAND/Rollstin	Test	SRCON7-162	-	-
1985-A19	2446065.50	1985	HJ	-	Sandia	0.000	SAND	AS	-	SAND/Rollstin	Test	SRCON7-162	-	-
1985-S37	2446105.26	1985 Feb 8 1814	Taurus Orion	-	NASA 33.48UU	0.000	GSFC	SS	-	UCO/Rottman	Aeron	WISR	-	-
1985-S51	2446130.36	1985 Mar 5 2038	Taurus Orion	-	NASA 33.44UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1985-S56	2446139.04	1985 Mar 14 1254:34	Taurus Tomahawk	-	NASA 34.11UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-
1985-S60	2446145.44	1985 Mar 20 2234	Taurus Tomahawk	-	NASA 34.06UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1985-S115	2446318.50	1985 Sep 10 0002:10	Taurus Orion	-	NASA 33.50GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1985-S139	2446389.93	1985 Nov 20 1019	Taurus Nike Tomahawk	-	NASA 38.09UE	0.000	GSFC	SS	-	MSFC/Reasoner	Plasma	WISR	-	-
1986-S29	2446497.31	1986 Mar 7 1930	Taurus Orion	-	NASA 33.51UU	0.000	GSFC	SS	-	UCO/Rottman	Aeron	WISR	-	-
1986-A13	2446520.50	1986 Apr	HJ	-	Sandia	0.000	SAND	AS	-	SAND/Rollstin	Test	SRCON7-162	-	-
1986-S43	2446548.58	1986 Apr 28 0158	Taurus Nike Tomahawk	-	NASA 38.05UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	JGR97,A4,4085	-
1986-S47	2446563.83	1986 May 13 0756	Taurus Nike Tomahawk	-	NASA 38.08UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	Desind	-
1986-S112	2446739.36	1986 Nov 4 2044:01	Taurus Orion	-	SSC S41H	0.000	SSC	SS	-	IRF/Sandahl	Auroral	ESA-SP270-55	Powell	-
1986-S116	2446777.35	1986 Dec 12 2021:36	Taurus Orion	-	SSC S41L	0.000	SSC	SS	-	IRF/Sandahl	Auroral	Sven	ESA-SP270-55	-
1987-S53	2446844.41	1987 Feb 17 2155	Taurus Orion	-	NASA 33.56UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	WIPR87-9	-
1987-S59	2446859.78	1987 Mar 5 0638:40	Taurus Nike Tomahawk	-	NASA 38.12UE	0.000	GSFC	SS	-	USU/Baker	Plasma	WISR	-	-
1987-S65	2446875.80	1987 Mar 21 0706	Taurus Tomahawk	-	NASA 34.14UE	0.000	GSFC	SS	-	CLEM/DMI/Larson	Plasma	WISR	-	-
1987-S75	2446885.70	1987 Mar 31 0447:05	Taurus Nike Tomahawk	-	NASA 38.10UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	www.cass.usu.edu	WISR	-
1987-S76	2446885.70	1987 Mar 31 0447:11	Taurus Nike Tomahawk	-	NASA 38.11UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	www.cass.usu.edu	WISR	-
1987-S109	2446991.58	1987 Jul 15 0155	Taurus Orion	-	NASA 33.52GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	WIPR87-22	-
1987-S112	2447003.77	1987 Jul 27 0625	Taurus Orion	-	NASA 33.53GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1987-S149	2447072.50	1987 Oct 4	HJ Nike Hydac	?	-	0.000	AFBMD	SS	-	MITLL/?	Reentry Test?	SAMSO	-	-
1987-S175	2447117.50	1987 Nov 18	HJ Nike Hydac	?	-	0.000	AFBMD	SS	-	MITLL/?	Reentry Test?	SAMSO	-	-
1988-S106	2447369.74	1988 Jul 27 0548:03	Taurus Nike Tomahawk	-	NASA 38.07UE	0.000	GSFC	SS	-	USU/Baker	Plasma	WISR	-	-
1988-S127	2447453.50	1988 Oct 19	HJ Nike Hydac	?	-	0.000	AFBMD	SS	-	MITLL/?	Reentry Test?	SAMSO	-	-
1988-S128	2447455.35	1988 Oct 20 2029:51	Taurus Orion	-	NASA 33.49UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1989-S42	2447593.42	1989 Mar 7 2200	Taurus Orion	-	NASA 33.57UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1989-A14	2447882.34	1989 Dec 21 2006	Taurus	S	NASA 12.43WT	0.000	GSFC	SS	-	WFF/Flowers	Test	WISR	-	-
1990-S88	2448025.40	1990 May 13 2129:02	Taurus Orion	-	NASA 33.59GE	0.000	GSFC	SS	-	GSFC/Baker	Plasma	WISR	-	-
1990-S90	2448026.35	1990 May 14 2026	Taurus Orion	-	NASA 33.60GE	0.000	GSFC	SS	-	GSFC/Baker	Plasma	WISR	-	-
1990-S116	2448114.84	1990 Aug 11 0810:00	Taurus Nike Tomahawk	-	NASA 38.17UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1990-S118	2448118.85	1990 Aug 15 0829:00	Taurus Nike Tomahawk	-	NASA 38.15UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1990-S119	2448118.86	1990 Aug 15 0843:56	Taurus Nike Tomahawk	-	NASA 38.16UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1990-S123	2448125.86	1990 Aug 22 0840:10	Taurus Nike Tomahawk	-	NASA 38.18UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1991-S178	2448596.54	1991 Dec 6 0054	Taurus Nike Tomahawk	-	NASA 38.19UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	JGR101,A9,19683	-
1991-S179	2448596.55	1991 Dec 6 0119	Taurus Nike Tomahawk	-	NASA 38.20UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	JGR101,A9,19683	-
1993-S63	2449265.32	1993 Oct 4 1935	Taurus Orion	-	NASA 33.062UE	0.000	GSFC	SS	-	UCO/Barth	Plasma	WISR	-	-
1994-S43	2449531.42	1994 Jun 27 2205	Taurus Orion	-	NASA 33.063UE	0.000	GSFC	SS	-	UCO/Barth	Plasma	WWW-PFRR	-	-
1995-S41	2449875.42	1995 Jun 6 2200:00	Taurus Orion	-	NASA 33.064UE	0.000	GSFC	SS	-	UCO/Barth	Ionos	WISR	WWW-PFRR	-
1998-S21	2450869.82	1998 Feb 25 0743:00	Taurus Orion	-	NASA 33.067UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
1999-S04	2451201.15	1999 Jan 22 1531:00	Taurus Orion	-	NASA 33.068UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
1999-S44	2451364.67	1999 Jul 5 0402:00	Taurus Orion	-	NASA 33.065UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
1999-S48	2451377.65	1999 Jul 18 0341:00	Taurus Orion	-	NASA 33.066UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
2002-S10	2452326.91	2002 Feb 21 0957:01	Taurus Orion	-	NASA 33.069UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	www.wff.nasa.gov	-	-
2002-S11	2452326.92	2002 Feb 21 0959:01	Taurus Orion	-	NASA 33.070UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	www.wff.nasa.gov	-	-
2002-S12	2452326.92	2002 Feb 21 1001:01	Taurus Orion	-	NASA 33.073UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	www.wff.nasa.gov	-	-
2014-A42	2457008.65	2014 Dec 17 0330	Taurion	-	NASA 12.082CR	0.000	GSFC	AS	-	LARCNE/Gilbert	Tech	www.wff.nasa.gov	-	-
2021-A05	2459303.50	2021 Mar 30	Taurion	?	NASA 12.088NR	0.000	GSFC	AS	-	LARCNE/Gilbert	Tech	www.wff.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A68	2436388.50	1958 Jul 4	NOTS EV1	1	-	-	-	-	-	NOTS	G-2	-	-	0?	-	-
1958-A76	2436402.50	1958 Jul 18	NOTS EV1	1	-	-	-	-	-	NOTS	G-2	-	-	0?	-	-
1958-F07	2436409.50	1958 Jul 25	NOTS EV1	-	1	Diagnostic 1	Diagnostic Payload 1	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	12	-	-
1958-F08	2436427.50	1958 Aug 12	NOTS EV1	-	2	Diagnostic 2	Diagnostic Payload 2	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	12	-	-
1958-A97	2436431.50	1958 Aug 16	NOTS EV1	1	-	-	-	-	-	NOTS	G-2	-	-	0?	-	-
1958-A98	2436432.50	1958 Aug 17	NOTS EV1	1	-	-	-	-	-	NOTS	G-2	-	-	0?	-	-
1958-F10	2436437.50	1958 Aug 22	NOTS EV1	-	3	Diagnostic 3	Diagnostic Payload 3	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	80?	-	-
1958-F12	2436440.50	1958 Aug 25	NOTS EV1	-	4	Argus Radiation 1	Radiation Payload 1	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	12	-	-
1958-F13	2436441.50	1958 Aug 26	NOTS EV1	-	5	Argus Radiation 2	Radiation Payload 2	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	12	-	-
1958-F14	2436443.50	1958 Aug 28	NOTS EV1	-	6	Argus Radiation 3	Radiation Payload 3	-	F-4D-747	NOTS	RW03/21?	WTR	LP4	12	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A68	2436388.50	1958 Jul 4	NOTS EV1	1	-	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	-
1958-A76	2436402.50	1958 Jul 18	NOTS EV1	1	-	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	-
1958-F07	2436409.50	1958 Jul 25	NOTS EV1	-	1	0.001	NOTS	OF	S1G	G	Sat MEO OO	NOTS	-	Spiralled after ignition
1958-F08	2436427.50	1958 Aug 12	NOTS EV1	-	2	0.001	NOTS	OF	S1I	G	Sat MEO OO	NOTS	-	Blew up on ignition
1958-A97	2436431.50	1958 Aug 16	NOTS EV1	1	-	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	0
1958-A98	2436432.50	1958 Aug 17	NOTS EV1	1	-	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	-
1958-F10	2436437.50	1958 Aug 22	NOTS EV1	-	3	0.001	NOTS	OF	S3?	G	Sat MEO OO	NOTS	-	Failure mode unknown
1958-F12	2436440.50	1958 Aug 25	NOTS EV1	-	4	0.001	NOTS	OF	S1I	G	Sat MEO OO	NOTS	-	S1 exploded
1958-F13	2436441.50	1958 Aug 26	NOTS EV1	-	5	0.001	NOTS	OF	S1I	G	Sat MEO OO	NOTS	-	No ignition, fell in ocean
1958-F14	2436443.50	1958 Aug 28	NOTS EV1	-	6	0.001	NOTS	OF	S1I	G	Sat MEO OO	NOTS	-	One motor ft ignite, broke up

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-A04	2454224.04	2007 May 3 1250:56	Hybrid Test Rocket	-	-	HTR	-	-	-	AND	U3	-	-	13	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-A04	2454224.04	2007 May 3 1250:56	Hybrid Test Rocket	-	-	0.000	NAMMO/ARR	AS	-	NAMMO/LM-Michoud	Tech	www.rocketrange.no	ESA-SP647-181	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1945-A09	2431741.50	1945 Oct 13	HVAR	-	-	R-1	-	-	-	WS	-	-	-	5?	-	-
1945-A10	2431741.50	1945 Oct 13	HVAR	-	-	R-2	-	-	-	WS	-	-	-	5?	-	-
1945-A11	2431741.50	1945 Oct 13	HVAR	-	-	R-3	-	-	-	WS	-	-	-	5?	-	-
1945-A12	2431741.50	1945 Oct 13	HVAR	-	-	R-4	-	-	-	WS	-	-	-	5?	-	-
1945-A13	2431742.50	1945 Oct 14	HVAR	-	-	R-5	-	-	-	WS	-	-	-	5?	-	-
1945-A14	2431742.50	1945 Oct 14	HVAR	-	-	R-6	-	-	-	WS	-	-	-	5?	-	-
1947-A08	2432299.50	1947 Apr 24	HVAR FFAR	-	-	RM-10 Model	-	-	-	WI	-	-	-	5?	-	-
1947-A11	2432305.50	1947 May	HVAR	-	-	FR-2 Model	-	-	-	WI	-	-	-	5?	-	-
1948-A04	2432702.50	1948 Jun	HVAR FFAR	-	-	Rascal Model	-	-	-	WI	-	-	-	5?	-	-
1948-A12	2432740.50	1948 Jul 8	HVAR FFAR	-	-	Rascal Model	-	-	-	WI	-	-	-	5?	-	-
1948-A25	2432794.50	1948 Sep	HVAR FFAR	-	-	Rascal Model	-	-	-	WI	-	-	-	5?	-	-
1948-A35	2432824.50	1948 Oct	HVAR	-	-	E14 Model	-	-	-	WI	-	-	-	5?	-	-
1949-A01	2432927.50	1949 Jan 11	HVAR	-	-	D13 Model	-	-	-	WI	-	-	-	5?	-	-
1949-A16	2433048.50	1949 May 12	HVAR FFAR	-	-	F25 Drag Model	-	-	-	WI	-	-	-	5?	-	-
1950-A22	2433419.50	1950 May 18	HVAR	-	-	E2 Model	-	-	-	WI	-	-	-	5?	-	-
1950-A27	2433480.50	1950 Jul 18	HVAR FFAR	-	-	F25 Model	-	-	-	WI	-	-	-	5?	-	-
1950-A34	2433517.50	1950 Aug 24	HVAR	-	-	D28 Model	-	-	-	WI	-	-	-	5?	-	-
1950-A38	2433539.50	1950 Sep 15	HVAR	-	-	D27 Model	-	-	-	WI	-	-	-	5?	-	-
1950-A40	2433556.50	1950 Oct 2	HVAR	-	-	D35 Model	-	-	-	WI	-	-	-	5?	-	-
1950-A41	2433564.50	1950 Oct 10	HVAR FFAR	-	-	F25 Drag Model	-	-	-	WI	-	-	-	5?	-	-
1950-A51	2433594.50	1950 Nov 9	HVAR FFAR	-	-	F25 Drag Model	-	-	-	WI	-	-	-	5?	-	-
1950-A57	2433616.50	1950 Dec 1	HVAR	-	-	Rascal Model	-	-	-	WI	-	-	-	5?	-	-
1950-A63	2433634.50	1950 Dec 19	HVAR	-	-	D35 Model	-	-	-	WI	-	-	-	5?	-	-
1951-A04	2433705.50	1951 Mar	HVAR FFAR	-	-	F25 Drag Model	-	-	-	WI	-	-	-	5?	-	-
1951-A40	2433836.50	1951 Jul 9	HVAR	-	-	D27 Model	-	-	-	WI	-	-	-	5?	-	-
1951-A48	2433854.50	1951 Jul 27	HVAR	-	-	Hermes A3A Model	-	-	-	WI	-	-	-	5?	-	-
1951-A56	2433880.50	1951 Aug 22	HVAR	-	-	D32 Model	-	-	-	WI	-	-	-	5?	-	-
1951-A61	2433901.50	1951 Sep 12	HVAR	?	-	E2 Model	-	-	-	WI	-	-	-	5?	-	-
1952-A78	2434148.50	1952 May 16	HVAR	-	-	D18 Model	-	-	-	WI	-	-	-	5?	-	-
1952-A92	2434166.50	1952 Jun 3	HVAR	-	-	F12 Model	-	-	-	WI	-	-	-	5?	-	-
1952-A148	2434260.50	1952 Sep 5	HVAR	-	-	Rascal Model	-	-	-	WI	-	-	-	5?	-	-
1952-A174	2434288.50	1952 Oct 3	HVAR FFAR	-	-	E39 Model	-	-	-	WI	-	-	-	1	-	-
1952-A175	2434288.50	1952 Oct 3	HVAR FFAR	-	-	E39 Model	-	-	-	WI	-	-	-	2	-	-
1952-A222	2434330.50	1952 Nov 14	HVAR FFAR	-	-	E31 Model	-	-	-	WI	-	-	-	5?	-	-
1952-A239	2434340.50	1952 Nov 24	HVAR	-	-	D32 Model	-	-	-	WI	-	-	-	5?	-	-
1953-A03	2434377.50	1953	HVAR	-	-	D32 Model	-	-	-	WI	-	-	-	5?	-	-
1953-A391	2434657.50	1953 Oct 7	HVAR	-	-	D18 F8U-1 Model	-	-	-	WI	-	-	-	10?	-	-
1953-A426	2434684.50	1953 Nov 3	HVAR	-	-	D37 Model	-	-	-	WI	-	-	-	5?	-	-
1954-A01	2434742.50	1954?	HVAR	-	-	E14 Model	-	-	-	WI	-	-	-	5?	-	-
1954-A29	2434763.50	1954 Jan 21	HVAR	-	-	Turbojet study	-	-	-	WI	-	-	-	5?	-	-
1954-A89	2434803.50	1954 Mar 2	HVAR	-	-	D18 F8U-1 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A729	2435014.50	1954 Sep 29	HVAR	-	-	-	-	-	-	WS	-	-	-	5?	-	-
1954-A730	2435014.50	1954 Sep 29	HVAR	-	-	-	-	-	-	WS	-	-	-	5?	-	-
1957-A12	2435884.50	1957 Feb 15	HVAR	-	-	D27 Model	-	-	-	WI	-	-	-	5?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1945-A09	2431741.50	1945 Oct 13	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1945-A10	2431741.50	1945 Oct 13	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1945-A11	2431741.50	1945 Oct 13	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1945-A12	2431741.50	1945 Oct 13	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1945-A13	2431742.50	1945 Oct 14	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1945-A14	2431742.50	1945 Oct 14	HVAR	-	-	0.000	JPL	AS	-	-	Test	JPL4-41	-	-
1947-A08	2432299.50	1947 Apr 24	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1947-A11	2432305.50	1947 May	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A04	2432702.50	1948 Jun	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A12	2432740.50	1948 Jul 8	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A25	2432794.50	1948 Sep	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1948-A35	2432824.50	1948 Oct	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A01	2432927.50	1949 Jan 11	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1949-A16	2433048.50	1949 May 12	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A22	2433419.50	1950 May 18	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A27	2433480.50	1950 Jul 18	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A34	2433517.50	1950 Aug 24	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A38	2433539.50	1950 Sep 15	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A40	2433556.50	1950 Oct 2	HVAR	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1950-A41	2433564.50	1950 Oct 10	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A51	2433594.50	1950 Nov 9	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A57	2433616.50	1950 Dec 1	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1950-A63	2433634.50	1950 Dec 19	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A04	2433705.50	1951 Mar	HVAR FFAR	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1951-A40	2433836.50	1951 Jul 9	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A48	2433854.50	1951 Jul 27	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A56	2433880.50	1951 Aug 22	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1951-A61	2433901.50	1951 Sep 12	HVAR	?	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A78	2434148.50	1952 May 16	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A92	2434166.50	1952 Jun 3	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A148	2434260.50	1952 Sep 5	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A174	2434288.50	1952 Oct 3	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A175	2434288.50	1952 Oct 3	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A222	2434330.50	1952 Nov 14	HVAR FFAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1952-A239	2434340.50	1952 Nov 24	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A03	2434377.50	1953	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A391	2434657.50	1953 Oct 7	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1953-A426	2434684.50	1953 Nov 3	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A01	2434742.50	1954?	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A29	2434763.50	1954 Jan 21	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A89	2434803.50	1954 Mar 2	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A729	2435014.50	1954 Sep 29	HVAR	-	-	0.000	USA?	AS	-	-	Test	wsmr-history.org	-	-
1954-A730	2435014.50	1954 Sep 29	HVAR	-	-	0.000	USA?	AS	-	-	Test	wsmr-history.org	-	-
1957-A12	2435884.50	1957 Feb 15	HVAR	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2002-M03	2452626.97	2002 Dec 18 1115	HYSR	-	-	SOAREX-2	-	-	-	WI	-	-	-	42	65	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2002-M03	2452626.97	2002 Dec 18 1115	HYSR	-	-	0.000	ARC	SS	-	ARC/WFF/Murbach	Tech	www.gsfc.nasa.gov	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-S137	2447487.50	1988 Nov 22	Hades	-	-	-	-	-	-	CEL	-	-	-	150?	-	-
1989-S43	2447593.50	1989 Mar 8	Hades	-	-	-	-	-	-	CEL	-	-	-	150?	-	-
1992-S01	2448621.50	1992	Hades	-	-	-	-	-	-	CEL	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-S137	2447487.50	1988 Nov 22	Hades	-	-	0.000	DGA	MS	-	-	Test	JCM	-	-
1989-S43	2447593.50	1989 Mar 8	Hades	-	-	0.000	DGA	MS	-	-	Test	JCM	-	-
1992-S01	2448621.50	1992	Hades	-	-	0.000	DGA	MS	-	-	Test	www.fas.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A14	2435120.50	1955 Jan 13	Nike Hercules 1810	-	B1 1810-1	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A67	2435141.50	1955 Feb 3	Nike Hercules 1810	-	B2 1810-2R	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A177	2435177.50	1955 Mar 11	Nike Hercules 1810	-	B3 1810-3	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A257	2435203.50	1955 Apr 6	Nike Hercules 1810	-	B4 1810-5B	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A445	2435303.50	1955 Jul 15	Nike Hercules R&D	-	B5 1810-8	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A547	2435317.50	1955 Jul 29	Nike Hercules R&D	-	B6 1810-9	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A548	2435335.50	1955 Aug 16	Nike Hercules R&D	-	B7 1810-11	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A549	2435338.50	1955 Aug 19	Nike Hercules R&D	-	B8 1810-12	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A550	2435352.50	1955 Sep 2	Nike Hercules R&D	-	B9 1810-13	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A551	2435362.50	1955 Sep 12	Nike Hercules R&D	-	B10 1810-10	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A552	2435406.50	1955 Oct 26	Nike Hercules R&D	-	B11 1810-17	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A553	2435413.50	1955 Nov 2	Nike Hercules R&D	-	B12 1810-16	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A554	2435427.50	1955 Nov 16	Nike Hercules R&D	-	B13 1810-19	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A555	2435434.50	1955 Nov 23	Nike Hercules R&D	-	B14 1810-18	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A556	2435442.50	1955 Dec 1	Nike Hercules R&D	-	B15 1810-4	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A557	2435448.50	1955 Dec 7	Nike Hercules R&D	-	B16 1810-20	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A558	2435455.50	1955 Dec 14	Nike Hercules R&D	-	B17 1810-15	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A559	2435455.50	1955 Dec 14	Nike Hercules R&D	-	B18 1810-22	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A560	2435107.50	1955	Nike Hercules R&D	-	B19	Test	-	-	-	WS	-	-	-	10?	-	-
1955-A561	2435107.50	1955	Nike Hercules R&D	-	B20	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A193	2435472.50	1956	Nike Hercules R&D	-	B21	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A194	2435484.50	1956 Jan 12	Nike Hercules R&D	-	B22 1810-24	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A195	2435491.50	1956 Jan 19	Nike Hercules R&D	-	B23 1810-25	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A196	2435503.50	1956 Jan 31	Nike Hercules R&D	-	B24 1810-23	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A197	2435512.50	1956 Feb 9	Nike Hercules R&D	-	B25 1810-26	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A198	2435513.50	1956 Feb 10	Nike Hercules R&D	-	B26 1810-14	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A199	2435527.50	1956 Feb 24	Nike Hercules R&D	-	B27 1810-28	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A200	2435532.50	1956 Feb 29	Nike Hercules R&D	-	B28 1810-29	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A201	2435624.50	1956 May 31	Nike Hercules R&D	-	B29 1810-36	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A202	2435630.50	1956 Jun 6	Nike Hercules R&D	-	B30 1810-37	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A203	2435646.50	1956 Jun 22	Nike Hercules R&D	-	B31 1810-38	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A204	2435653.50	1956 Jun 29	Nike Hercules R&D	-	B32 1810-39	Test	-	-	-	WS	-	-	-	10?	-	-
1956-A205	2435679.50	1956 Jul 25	Nike Hercules R&D	-	1810-30	System Demo	-	-	-	WS	-	-	-	10?	-	-
1956-A208	2435679.50	1956 Jul 25	Nike Hercules R&D	-	1810-31	System Demo	-	-	-	WS	-	-	-	10?	-	-
1956-A378	2435686.50	1956 Aug 1	Nike Hercules R&D	-	1810-32	-	-	-	-	WS	-	-	-	10?	-	-
1956-A379	2435686.50	1956 Aug 1	Nike Hercules R&D	-	2032	-	-	-	-	WS	-	-	-	10?	-	-
1956-A380	2435701.50	1956 Aug 16	Nike Hercules R&D	-	1810-21	-	-	-	-	WS	-	-	-	10?	-	-
1956-A206	2435726.50	1956 Sep 10	Nike Hercules R&D	-	1810-35	QB-17 intercept	-	-	-	WS	-	-	-	10?	-	-
1956-A381	2435742.50	1956 Sep 26	Nike Hercules R&D	-	1810-41	-	-	-	-	WS	-	-	-	10?	-	-
1956-A382	2435742.50	1956 Sep 26	Nike Hercules R&D	-	1810-43	-	-	-	-	WS	-	-	-	10?	-	-
1956-A383	2435749.50	1956 Oct 3	Nike Hercules R&D	-	1810-34	-	-	-	-	WS	-	-	-	10?	-	-
1956-A384	2435757.50	1956 Oct 11	Nike Hercules R&D	-	1810-42	-	-	-	-	WS	-	-	-	10?	-	-
1956-A104	2435777.50	1956 Oct 31	Nike Hercules R&D	-	1810-44	Drone intercept	-	-	-	WS	-	-	-	10?	-	-
1956-A385	2435784.50	1956 Nov 7	Nike Hercules R&D	-	1810-47	-	-	-	-	WS	-	-	-	10?	-	-
1956-A386	2435472.50	1956	Nike Hercules R&D	-	-	[B45]	-	-	-	WS	-	-	-	10?	-	-
1956-A387	2435472.50	1956	Nike Hercules R&D	-	-	[B46]	-	-	-	WS	-	-	-	10?	-	-
1956-A207	2435821.50	1956 Dec 14	Nike Hercules R&D	-	1810-48 B47?	Firing no. 47	-	-	-	WS	-	-	-	10?	-	-
1956-A362	2435826.50	1956 Dec 19	Nike Hercules R&D	-	1810-50	-	-	-	-	WS	-	-	-	10?	-	-
1957-A18	2435910.50	1957 Mar 13	Nike Hercules	-	B-57	XM30 No.1	-	-	-	WS	-	-	-	10?	-	-
1957-A153	2435953.50	1957 Apr 25	Nike Hercules R&D	-	-	Drone intercept	-	-	-	WS	-	-	-	10?	-	-
1957-A157	2435965.50	1957 May 7	Nike Hercules	?	-	Contr. system test	-	-	-	WS	-	-	-	10?	-	-
1957-A172	2436071.50	1957 Aug 21	Nike Hercules	-	-	Surface-surface test	-	-	-	WS	-	-	-	10?	-	-
1957-A173	2436092.50	1957 Sep 11	Nike Hercules	-	-	Drone intercept	-	-	-	WS	-	-	-	10?	-	-
1957-A171	2436122.50	1957 Oct 11	Nike Hercules	?	-	Contr. system test	-	-	-	WS	-	-	-	10?	-	-
1957-A174	2436169.50	1957 Nov 27	Nike Hercules	-	-	Article impaction	-	-	-	WS	-	-	-	10?	-	-
1957-A154	2436172.50	1957 Dec?	Nike Hercules R&D	-	-	Liquid stage 67	-	-	-	WS	-	-	-	10?	-	-
1957-A155	2436172.50	1957 Dec?	Nike Hercules	-	-	XM30 No.35	-	-	-	WS	-	-	-	10?	-	-
1958-A186	2436203.50	1958	Nike Hercules R&D	-	-	Liquid stage 72/last	-	-	-	WS	-	-	-	10?	-	-
1958-A187	2436304.50	1958 Apr 11	Nike Hercules	?	-	Ord Eng Eval Test 1	-	-	-	WS	-	-	-	10?	-	-
1958-A188	2436321.50	1958 Apr 28	Nike Hercules	-	-	Package Training 1	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A190	2436323.50	1958 May?	Nike Hercules	-	-	Package Training 2	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A191	2436323.50	1958 May?	Nike Hercules	-	-	Package Training 3	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A192	2436323.50	1958 May?	Nike Hercules	-	-	Package Training 4	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A193	2436323.50	1958 May?	Nike Hercules	-	-	Package Training 5	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A194	2436323.50	1958 May?	Nike Hercules	-	-	Package Training 6	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A195	2436354.50	1958 Jun?	Nike Hercules	-	-	Package Training 7	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A196	2436354.50	1958 Jun?	Nike Hercules	-	-	Package Training 8	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A197	2436354.50	1958 Jun?	Nike Hercules	-	-	SNODGRASS IMB 1	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A198	2436354.50	1958 Jun?	Nike Hercules	-	-	SNODGRASS IMB 2	-	-	-	FTB	MCG	-	-	10?	-	-
1958-A199	2436385.50	1958 Jul 1	Nike Hercules	-	-	Project AMMO	-	-	-	WS?	-	-	-	30	-	-
1958-A200	2436398.50	1958 Jul 14	Nike Hercules	-	-	SNODGRASS Ph3-1	-	-	-	EGL	-	-	-	10?	-	-
1958-A201	2436401.50	1958 Jul 17	Nike Hercules	-	-	SNODGRASS Ph3-2	-	-	-	EGL	-	-	-	10?	-	-
1958-A202	2436409.23	1958 Jul 24 1730	Nike Hercules	-	-	SNODGRASS Ph3-3	-	-	-	EGL	-	-	-	2	-	-
1958-A203	2436409.23	1958 Jul 24 1730	Nike Hercules	-	-	SNODGRASS Ph3-4	-	-	-	EGL	-	-	-	2	-	-
1958-A204	2436414.17	1958 Jul 29 1605?	Nike Hercules	-	-	SNODGRASS Ph3-5	-	-	-	EGL	-	-	-	10	-	-
1958-A205	2436414.17	1958 Jul 29 1605?	Nike Hercules	-	-	SNODGRASS Ph3-6	-	-	-	EGL	-	-	-	10	-	-
1958-A217	2436513.50	1958 Nov 6	Nike Hercules	-	-	POGO intercept	-	-	-	WS	-	-	-	45	-	-
1958-A218	2436526.50	1958 Nov 19	Nike Hercules	-	-	Drone intercept	-	-	-	WS	-	-	-	18	-	-
1958-A189	2436547.50	1958 Dec 10	Nike Hercules	-	-	XM30 No.111	Drone intercept	-	-	WS	-	-	-	22	-	-
1959-A257	2436575.50	1959 Jan 7	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A258	2436575.50	1959 Jan 7	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A16	2436599.36	1959 Jan 30 2040	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A22	2436603.35	1959 Feb 3 2025	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A259	2436605.50	1959 Feb 6	Nike Hercules	-	-	Matador intercept	-	-	-	WS	-	-	-	10?	-	-
1959-A24	2436606.50	1959 Feb 7	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A25	2436610.40	1959 Feb 10 2130	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A27	2436612.33	1959 Feb 12 1948	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A260	2436617.50	1959 Feb 18	Nike Hercules	-	-	Drone intercept	-	-	-	WS	-	-	-	10?	-	-
1959-A31	2436619.25	1959 Feb 19 1804	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A244	2436625.50	1959 Feb 26	Nike Hercules	-	-	Field qual	-	-	-	WS	-	-	-	10?	-	-
1959-A41	2436631.41	1959 Mar 3 2145	Nike Hercules	-	-	Cold weather test	-	-	-	FC	-	-	-	10?	-	-
1959-A261	2436638.50	1959 Mar 11	Nike Hercules	-	-	POGO-Hi intercept	-	-	-	WS	-	-	-	48	-	-
1959-A262	2436688.50	1959 May	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A241	2436743.50	1959 Jun 24	Nike Hercules	-	-	Cell launcher test	-	-	-	WS	ALA1	-	-	10?	-	-
1959-A263	2436719.50	1959 Jun?	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A245	2436759.50	1959 Jul 10	Nike Hercules	-	-	Field qual	-	-	-	FTB	MCG	-	-	10?	-	-
1959-A246	2436780.50	1959 Jul 31	Nike Hercules	-	-	Field qual	-	-	-	WS	-	-	-	10?	-	-
1959-A264	2436780.50	1959 Aug?	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A266	2436808.50	1959 Aug 28	Nike Hercules	-	-	Parachute test	-	-	-	WS	-	-	-	10?	-	-
1959-A265	2436811.50	1959 Sep	Nike Hercules	-	-	T-46 eval	-	-	-	WS	-	-	-	10?	-	-
1959-A267	2436860.50	1959 Oct 19	Nike Hercules	-	-	Drone intercept	-	-	-	WS	-	-	-	10?	-	-
1959-A239	2436919.51	1959 Dec 17 0010	Nike Hercules	-	562Art Btn 2 Bat B	Service firing test	-	-	-	FWAK	P	-	-	3	-	-
1959-A240	2436920.34	1959 Dec 17 2011	Nike Hercules	-	562Art Btn 2 Bat B	Service firing test	-	-	-	FWAK	P	-	-	3?	-	-
1959-A242	2436921.50	1959 Dec 19	Nike Hercules	-	-	Cell launcher test	-	-	-	WS	ALA1	-	-	10?	-	-
1959-A243	2436902.50	1959 Dec?	Nike Hercules	-	-	XM30 No.205	-	-	-	WS	-	-	-	10?	-	-
1960-A377	2436967.50	1960 Feb 3	Nike Hercules	-	-	Space point test	-	-	-	WS	-	-	-	20?	-	FIX
1960-A363	2436969.50	1960 Feb 5	Nike Hercules	-	B-281	POGO intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A364	2436990.50	1960 Feb 26	Nike Hercules	-	B-284	Low altitude test?	-	-	-	WS	-	-	-	10?	-	-
1960-A365	2436990.50	1960 Feb 26	Nike Hercules	-	B-285	Low altitude test?	-	-	-	WS	-	-	-	10?	-	-
1960-A366	2436995.50	1960 Mar 2	Nike Hercules	-	B-286	Low altitude test?	-	-	-	WS	-	-	-	10?	-	-
1960-A329	2437008.50	1960 Mar 15	Nike Hercules	-	-	Last 1959-60 ASF	-	-	-	FWAK	P	-	-	3?	-	-
1960-A332	2437011.50	1960 Mar 18	Nike Hercules	-	-	ZURF Test	-	-	-	WS	ZURF	-	-	20?	-	-
1960-A333	2437032.50	1960 Apr 8	Nike Hercules	-	-	ZURF Target	-	-	-	WS	ZURF	-	-	20?	-	-
1960-A334	2437038.50	1960 Apr 14	Nike Hercules	-	-	Improved NH Test	-	-	-	WS	-	-	-	20?	-	-
1960-A367	2437050.50	1960 Apr 26	Nike Hercules	-	B-293	Low altitude test?	-	-	-	WS	-	-	-	10?	-	-
1960-A341	2437071.50	1960 May 17	Nike Hercules	-	B-294	Cold-conditioned test	-	-	-	WS	-	-	-	20	-	-
1960-A335	2437086.50	1960 Jun 1	Nike Hercules	-	-	Improved NH Test	-	-	-	WS	-	-	-	20?	-	-
1960-A139	2437088.50	1960 Jun 3	Nike Hercules	-	INH-2	Corporal intercept	-	-	-	WS	-	-	-	8	-	-
1960-A344	2437100.50	1960 Jun 15	Nike Hercules	-	INH-4	POGO-HT intercept	-	-	-	WS	-	-	-	31	-	-
1960-A345	2437100.50	1960 Jun 15	Nike Hercules	-	INH-3 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A346	2437100.50	1960 Jun 15	Nike Hercules	-	INH-3	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A357	2437121.50	1960 Jul 6	Nike Hercules	-	B-299	T-46 test	-	-	-	WS	-	-	-	20?	-	-
1960-A360	2437126.50	1960 Jul 11	Nike Hercules	-	INH-5	Drone intercept	-	-	-	WS	-	-	-	19	-	-
1960-A342	2437130.50	1960 Jul 15	Nike Hercules	-	ZURF-8	Cold-conditioned test	-	-	-	WS	ZURF	-	-	20?	-	-
1960-A358	2437142.50	1960 Jul 27	Nike Hercules	-	B-303	T-46 test	-	-	-	WS	-	-	-	20?	-	-
1960-A347	2437158.50	1960 Aug 12	Nike Hercules	-	INH-6 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A348	2437158.50	1960 Aug 12	Nike Hercules	-	INH-6	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A349	2437163.50	1960 Aug 17	Nike Hercules	-	INH-8 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A350	2437163.50	1960 Aug 17	Nike Hercules	-	INH-8	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A361	2437163.50	1960 Aug 17	Nike Hercules	-	INH-7	Surface target	-	-	-	WS	-	-	-	20?	-	-
1960-A336	2437182.50	1960 Sep 5	Nike Hercules	-	-	ATBM Target	-	-	-	WS	ZURF	-	-	20?	-	-
1960-A351	2437191.50	1960 Sep 14	Nike Hercules	-	INH-9 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A352	2437191.50	1960 Sep 14	Nike Hercules	-	INH-9	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A362	2437191.50	1960 Sep 14	Nike Hercules	-	INH-10	Drone intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A353	2437213.50	1960 Oct 6	Nike Hercules	-	INH-11 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A354	2437213.50	1960 Oct 6	Nike Hercules	-	INH-11	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A359	2437219.50	1960 Oct 12	Nike Hercules	-	B-305	T-46 test	-	-	-	WS	-	-	-	20?	-	-
1960-A355	2437255.50	1960 Nov 17	Nike Hercules	-	INH-12 Target	NH Target	-	-	-	WS	-	-	-	20?	-	-
1960-A356	2437255.50	1960 Nov 17	Nike Hercules	-	INH-12	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1960-A330	2437259.47	1960 Nov 20 2314	Nike Hercules	-	-	ASF	-	-	-	ELM	S	-	-	12	-	-
1960-A331	2437267.50	1960 Nov 29	Nike Hercules	-	B-310	Last elevator launch	-	-	-	WS	-	-	-	1?	-	-
1961-A04	2437299.50	1961 Jan	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A38	2437330.50	1961 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A39	2437330.50	1961 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A40	2437330.50	1961 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A41	2437358.50	1961 Feb 28	Nike Hercules	-	SS-1	-	-	-	-	WS	-	-	-	20?	-	-
1961-A61	2437358.50	1961 Mar	Nike Hercules	-	SS-2?	-	-	-	-	WS	-	-	-	20?	-	-
1961-A62	2437358.50	1961 Mar	Nike Hercules	-	SS-3?	-	-	-	-	WS	-	-	-	20?	-	-
1961-A63	2437358.50	1961 Mar	Nike Hercules	-	SS-4?	-	-	-	-	WS	-	-	-	20?	-	-
1961-A64	2437358.50	1961 Mar	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A65	2437368.50	1961 Mar 10	Nike Hercules	-	INH-15	Drone intercept	-	-	-	WS	-	-	-	20?	-	-
1961-A66	2437379.50	1961 Mar 21	Nike Hercules	-	INH-16	-	-	-	-	WS	-	-	-	20?	-	-
1961-A67	2437388.50	1961 Mar 30	Nike Hercules	-	B-314	-	-	-	-	WS	-	-	-	20?	-	-
1961-A90	2437389.50	1961 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A91	2437389.50	1961 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A92	2437389.50	1961 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A93	2437389.50	1961 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A94	2437389.50	1961 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A96	2437389.50	1961 Apr	Nike Hercules	-	SS-5?	-	-	-	-	WS	-	-	-	20?	-	-
1961-A97	2437416.50	1961 Apr 27	Nike Hercules	-	SS-6	-	-	-	-	WS	-	-	-	20?	-	-
1961-A95	2437419.50	1961 Apr 30	Nike Hercules	-	INH-17	T-45 drone intercept	-	-	-	WS	-	-	-	20?	-	-
1961-A119	2437419.50	1961 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A121	2437419.50	1961 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A120	2437439.50	1961 May 20	Nike Hercules	-	B-316	-	-	-	-	WS	-	-	-	20?	-	-
1961-A140	2437464.50	1961 Jun 14	Nike Hercules	-	B-317	-	-	-	-	WS	-	-	-	20?	-	-
1961-A181	2437511.50	1961 Aug	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A182	2437511.50	1961 Aug	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A193	2437542.50	1961 Sep	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A194	2437542.50	1961 Sep	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A195	2437562.50	1961 Sep 20	Nike Hercules	-	B-320	-	-	-	-	WS	-	-	-	20?	-	-
1961-A212	2437578.50	1961 Oct 6	Nike Hercules	-	B-321	-	-	-	-	WS	-	-	-	20?	-	-
1961-A228	2437620.50	1961 Nov 17	Nike Hercules	-	INH-13	Drone intercept	-	-	-	WS	-	-	-	20?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A229	2437623.50	1961 Nov 20	Nike Hercules	-	INH-18	Highball II intercept	-	-	-	WS	-	-	-	20?	-	-
1961-A240	2437633.50	1961 Dec	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1961-A244	2437638.50	1961 Dec 5	Nike Hercules	-	INH-19	Redstone intercept	T45 warhead	-	-	WS	-	-	-	20?	-	-
1961-A241	2437639.50	1961 Dec 6	Nike Hercules	-	STD 84HE	-	-	-	-	WS	-	-	-	20?	-	-
1961-A242	2437645.50	1961 Dec 12	Nike Hercules	-	ZURF-13	Nike Zeus System Demo	-	-	-	WS	ZURF	-	-	20?	-	-
1961-A243	2437647.50	1961 Dec 14	Nike Hercules	-	ZURF-14	Nike Zeus System Demo	-	-	-	WS	ZURF	-	-	20?	-	-
1962-A04	2437676.50	1962 Jan 12	Nike Hercules	-	B-324	-	-	-	-	WS	-	-	-	20?	-	-
1962-A261	2437693.50	1962 Jan 29	Nike Hercules	-	STD 85HE	-	-	-	-	WS	-	-	-	20?	-	-
1962-A14	2437704.50	1962 Feb 9	Nike Hercules	-	B-325	-	-	-	-	WS	-	-	-	20?	-	-
1962-A151	2437737.50	1962 Mar 14	Nike Hercules	-	STD FS-4	-	-	-	-	WS	-	-	-	20?	-	-
1962-A28	2437751.50	1962 Mar 28	Nike Hercules	-	ZURF-15	Nike Zeus System Demo	-	-	-	WS	ZURF	-	-	20?	-	-
1962-A64	2437796.50	1962 May 12	Nike Hercules	-	B-326	-	-	-	-	WS	-	-	-	20?	-	-
1962-A89	2437843.50	1962 Jun 28	Nike Hercules	-	B-327	-	-	-	-	WS	-	-	-	20?	-	-
1962-A120	2437892.50	1962 Aug 16	Nike Hercules	-	B-328	-	-	-	-	WS	-	-	-	20?	-	-
1962-A121	2437876.50	1962 Aug	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1962-A122	2437876.50	1962 Aug	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1962-A123	2437876.50	1962 Aug?	Nike Hercules	-	-	Certification	-	-	-	JI	-	-	-	5?	-	-
1962-A150	2437907.50	1962 Sep?	Nike Hercules	-	-	Certification	-	-	-	JI	-	-	-	5?	-	-
1962-S655	2437917.50	1962 Sep 10	Nike Hercules	-	B-330	Space point intercept	-	-	-	WS	-	-	-	85	-	-
1962-A152	2437907.50	1962 Sep	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1962-A187	2437972.80	1962 Nov 4 0715?	Nike Hercules	-	-	Radar transmitter	-	-	-	JI	-	-	-	24?	-	-
1962-A188	2437972.80	1962 Nov 4 0715?	Nike Hercules	-	-	DOMINIC TIGHTROPE	-	-	-	JI	-	-	-	24	-	-
1963-A03	2438029.50	1963 Jan	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A17	2438060.50	1963 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A29	2438088.50	1963 Mar	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A222	2438122.50	1963 Apr 3	Nike Hercules	-	ATBM-1 Target	-	-	-	-	WS	ZURF	-	-	20?	-	-
1963-A221	2438122.50	1963 Apr 3	Nike Hercules	-	ATBM-1	NH intercept	-	-	-	WS	-	-	-	20?	-	-
1963-A223	2438160.50	1963 May 11	Nike Hercules	-	ATBM-2	POGO intercept	-	-	-	WS	-	-	-	31	-	-
1963-A224	2438166.50	1963 May 17	Nike Hercules	-	ATBM-3 Target	-	-	-	-	WS	ZURF?	-	-	20?	-	-
1963-A217	2438166.50	1963 May 17	Nike Hercules	-	ATBM-3	-	-	-	-	WS	-	-	-	20?	-	-
1963-A225	2438177.50	1963 May 28	Nike Hercules	-	ATBM-4 Target	-	-	-	-	WS	ZURF?	-	-	20?	-	-
1963-A218	2438177.50	1963 May 28	Nike Hercules	-	ATBM-4	-	-	-	-	WS	-	-	-	20?	-	-
1963-A226	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-5 Target	-	-	-	-	WS	ZURF?	-	-	20?	-	-
1963-A219	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-5	-	-	-	-	WS	-	-	-	20?	-	-
1963-A227	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-8 Target	-	-	-	-	WS	ZURF?	-	-	20?	-	-
1963-A220	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-8	-	-	-	-	WS	-	-	-	20?	-	-
1963-A215	2438206.50	1963 Jun 26	Nike Hercules	-	ATBM-6	Space point intercept	-	-	-	WS	-	-	-	36	-	-
1963-A216	2438229.50	1963 Jul 19	Nike Hercules	-	ATBM-7	Space point intercept	-	-	-	WS	-	-	-	36	-	-
1963-A213	2438277.50	1963 Sep 5	Nike Hercules	-	ATBM-9 Target	-	-	-	-	WS	-	-	-	20	-	-
1963-A214	2438277.50	1963 Sep 5	Nike Hercules	-	ATBM-9	-	-	-	-	WS	-	-	-	20	-	-
1963-A131	2438302.50	1963 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A132	2438307.50	1963 Oct 5	Nike Hercules	-	ATBM-11	T-45 warhead	Redstone intercept	-	-	WS	-	-	-	12	-	-
1963-A129	2438313.50	1963 Oct 11	Nike Hercules	-	ATBM-12	-	-	-	-	WS	-	-	-	20?	-	-
1963-A130	2438326.50	1963 Oct 24	Nike Hercules	-	ATBM-13	-	-	-	-	WS	-	-	-	20?	-	-
1963-A154	2438333.50	1963 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A155	2438333.50	1963 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1963-A193	2438351.50	1963 Nov 18	Nike Hercules	-	-	ASF	-	-	-	ELM?	S	-	-	10?	-	-
1963-A156	2438372.50	1963 Dec 9	Nike Hercules	-	ATBM-14	T-45 Sergeant intercept	-	-	-	WS	-	-	-	20?	-	-
1963-A196	2438373.50	1963 Dec 10	Nike Hercules	-	-	ASF	-	-	-	ELM?	S	-	-	10?	-	-
1963-A157	2438381.50	1963 Dec 18	Nike Hercules	-	ATBM-15	T-45 Sergeant intercept	-	-	-	WS	-	-	-	20?	-	-
1964-A197	2438400.50	1964 Jan 6	Nike Hercules	-	-	ASF	-	-	-	ELM	S	-	-	10?	-	-
1964-A211	2438409.50	1964 Jan 15	Nike Hercules	-	ATBM-17	Sergeant intercept	-	-	-	WS	-	-	-	12	-	-
1964-A212	2438415.50	1964 Jan 21	Nike Hercules	-	ATBM-18	HJ intercept	-	-	-	WS	-	-	-	6	-	-
1964-A198	2438415.50	1964 Jan 21	Nike Hercules	-	-	ASF (Last Anchorage?)	-	-	-	ELM	S	-	-	10?	-	-
1964-A213	2438424.50	1964 Jan 30	Nike Hercules	-	ATBM-19	HJ intercept	-	-	-	WS	-	-	-	7	-	-
1964-A141	2438668.50	1964 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A142	2438668.50	1964 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A143	2438668.50	1964 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A144	2438668.50	1964 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A161	2438699.50	1964 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A162	2438699.50	1964 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A163	2438699.50	1964 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1964-A164	2438699.50	1964 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A16	2438791.50	1965 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A17	2438791.50	1965 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A37	2438819.50	1965 Mar	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A52	2438850.50	1965 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A60	2438880.50	1965 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A77	2438911.50	1965 Jun	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A78	2438911.50	1965 Jun	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A92	2438941.50	1965 Jul	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A93	2438941.50	1965 Jul	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A138	2439033.50	1965 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A150	2439064.50	1965 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1965-A169	2439094.50	1965 Dec	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A01	2439125.50	1966 Jan	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A24	2439156.50	1966 Feb	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A49	2439215.50	1966 Apr	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A59	2439245.50	1966 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A60	2439245.50	1966 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A61	2439245.50	1966 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A72	2439276.50	1966 Jun	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A81	2439306.50	1966 Jul	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A82	2439306.50	1966 Jul	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A112	2439398.50	1966 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A113	2439398.50	1966 Oct	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A128	2439429.50	1966 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A129	2439429.50	1966 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A130	2439429.50	1966 Nov	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1966-A147	2439459.50	1966 Dec	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1967-A73	2439610.50	1967 May	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1967-A88	2439641.50	1967 Jun	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1967-A100	2439702.50	1967 Aug	Nike Hercules	-	-	-	-	-	-	WS	-	-	-	20?	-	-
1970-A157	2440627.50	1970 Feb 10	Nike Hercules	-	-	ASF	-	-	-	FWAK	P?	-	-	10?	-	-
1970-A158	2440859.50	1970 Oct	Nike J	-	1	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A159	2440859.50	1970 Oct?	Nike J	-	2	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A160	2440859.50	1970 Oct?	Nike J	-	3	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A161	2440859.50	1970 Oct?	Nike J	-	4	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A162	2440890.50	1970 Nov?	Nike J	-	5	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A163	2440890.50	1970 Nov?	Nike J	-	6	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A164	2440890.50	1970 Nov?	Nike J	-	7	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A165	2440890.50	1970 Nov?	Nike J	-	8	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1970-A166	2440890.50	1970 Nov	Nike J	-	9	Japan test	-	-	-	FTB	MCG	-	-	20?	-	-
1971-A117	2440951.50	1971	Nike Hercules	-	-	ASF (Last Fairbanks)	-	-	-	FWAK	P	-	-	10?	-	-
1978-A60	2443627.50	1978 Apr 29	Paekkom	-	1	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A61	2443628.50	1978 May?	Paekkom	-	2	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A62	2443598.50	1978 Q2?	Paekkom	-	3	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A63	2443598.50	1978 Q2?	Paekkom	-	4	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A64	2443689.50	1978 Q3?	Paekkom	-	5	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A65	2443689.50	1978 Q3?	Paekkom	-	6	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A66	2443689.50	1978 Q3?	Paekkom	-	7	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A67	2443767.50	1978 Sep 16	Paekkom	-	8	NHK-1	-	-	-	ANHU	-	-	-	20?	-	-
1978-A68	2443777.50	1978 Sep 26	Paekkom	-	9	NHK-1	-	-	-	ANHU	-	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A14	2435120.50	1955 Jan 13	Nike Hercules 1810	-	B1 1810-1	0.000	ORD	MU	-	-	Test	redstone.army.mil	-	-
1955-A67	2435141.50	1955 Feb 3	Nike Hercules 1810	-	B2 1810-2R	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A177	2435177.50	1955 Mar 11	Nike Hercules 1810	-	B3 1810-3	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A257	2435203.50	1955 Apr 6	Nike Hercules 1810	-	B4 1810-5B	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A445	2435303.50	1955 Jul 15	Nike Hercules R&D	-	B5 1810-8	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A547	2435317.50	1955 Jul 29	Nike Hercules R&D	-	B6 1810-9	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A548	2435335.50	1955 Aug 16	Nike Hercules R&D	-	B7 1810-11	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A549	2435338.50	1955 Aug 19	Nike Hercules R&D	-	B8 1810-12	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A550	2435352.50	1955 Sep 2	Nike Hercules R&D	-	B9 1810-13	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A551	2435362.50	1955 Sep 12	Nike Hercules R&D	-	B10 1810-10	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A552	2435406.50	1955 Oct 26	Nike Hercules R&D	-	B11 1810-17	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A553	2435413.50	1955 Nov 2	Nike Hercules R&D	-	B12 1810-16	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A554	2435427.50	1955 Nov 16	Nike Hercules R&D	-	B13 1810-19	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A555	2435434.50	1955 Nov 23	Nike Hercules R&D	-	B14 1810-18	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A556	2435442.50	1955 Dec 1	Nike Hercules R&D	-	B15 1810-4	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A557	2435448.50	1955 Dec 7	Nike Hercules R&D	-	B16 1810-20	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A558	2435455.50	1955 Dec 14	Nike Hercules R&D	-	B17 1810-15	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A559	2435455.50	1955 Dec 14	Nike Hercules R&D	-	B18 1810-22	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1955-A560	2435107.50	1955	Nike Hercules R&D	-	B19	0.000	ORD	MU	-	-	Test	NHercHistory	-	-
1955-A561	2435107.50	1955	Nike Hercules R&D	-	B20	0.000	ORD	MU	-	-	Test	NHercHistory	-	-
1956-A193	2435472.50	1956	Nike Hercules R&D	-	B21	0.000	ORD	MU	-	-	Test	NHercHistory	-	-
1956-A194	2435484.50	1956 Jan 12	Nike Hercules R&D	-	B22 1810-24	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A195	2435491.50	1956 Jan 19	Nike Hercules R&D	-	B23 1810-25	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A196	2435503.50	1956 Jan 31	Nike Hercules R&D	-	B24 1810-23	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A197	2435512.50	1956 Feb 9	Nike Hercules R&D	-	B25 1810-26	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A198	2435513.50	1956 Feb 10	Nike Hercules R&D	-	B26 1810-14	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A199	2435527.50	1956 Feb 24	Nike Hercules R&D	-	B27 1810-28	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A200	2435532.50	1956 Feb 29	Nike Hercules R&D	-	B28 1810-29	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A201	2435624.50	1956 May 31	Nike Hercules R&D	-	B29 1810-36	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A202	2435630.50	1956 Jun 6	Nike Hercules R&D	-	B30 1810-37	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A203	2435646.50	1956 Jun 22	Nike Hercules R&D	-	B31 1810-38	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A204	2435653.50	1956 Jun 29	Nike Hercules R&D	-	B32 1810-39	0.000	ORD	MU	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A205	2435679.50	1956 Jul 25	Nike Hercules R&D	-	1810-30	0.000	ORD	MS	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A208	2435679.50	1956 Jul 25	Nike Hercules R&D	-	1810-31	0.000	ORD	MS	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A378	2435686.50	1956 Aug 1	Nike Hercules R&D	-	1810-32	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A379	2435686.50	1956 Aug 1	Nike Hercules R&D	-	2032	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A380	2435701.50	1956 Aug 16	Nike Hercules R&D	-	1810-21	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A206	2435726.50	1956 Sep 10	Nike Hercules R&D	-	1810-35	0.000	ORD	MS	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A381	2435742.50	1956 Sep 26	Nike Hercules R&D	-	1810-41	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A382	2435742.50	1956 Sep 26	Nike Hercules R&D	-	1810-43	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A383	2435749.50	1956 Oct 3	Nike Hercules R&D	-	1810-34	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A384	2435757.50	1956 Oct 11	Nike Hercules R&D	-	1810-42	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A104	2435777.50	1956 Oct 31	Nike Hercules R&D	-	1810-44	0.000	ORD	MS	-	-	Test	redstone.army.mil	wsmr-history.org	-
1956-A385	2435784.50	1956 Nov 7	Nike Hercules R&D	-	1810-47	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1956-A386	2435472.50	1956	Nike Hercules R&D	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1956-A387	2435472.50	1956	Nike Hercules R&D	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1956-A207	2435821.50	1956 Dec 14	Nike Hercules R&D	-	1810-48 B47?	0.000	ORD	MS	-	-	Test	wsmr-history.org	NHercHistory	-
1956-A362	2435826.50	1956 Dec 19	Nike Hercules R&D	-	1810-50	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1957-A18	2435910.50	1957 Mar 13	Nike Hercules	-	B-57	0.000	ORD	MU	-	-	Test	NHercHistory	-	-
1957-A153	2435953.50	1957 Apr 25	Nike Hercules R&D	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1957-A157	2435965.50	1957 May 7	Nike Hercules	?	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1957-A172	2436071.50	1957 Aug 21	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1957-A173	2436092.50	1957 Sep 11	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1957-A171	2436122.50	1957 Oct 11	Nike Hercules	?	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1957-A174	2436169.50	1957 Nov 27	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1957-A154	2436172.50	1957 Dec?	Nike Hercules R&D	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1957-A155	2436172.50	1957 Dec?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A186	2436203.50	1958	Nike Hercules R&D	-	-	0.000	ORD	MU	-	-	Test	NHercHistory	-	-
1958-A187	2436304.50	1958 Apr 11	Nike Hercules	?	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A188	2436321.50	1958 Apr 28	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A190	2436323.50	1958 May?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A191	2436323.50	1958 May?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A192	2436323.50	1958 May?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A193	2436323.50	1958 May?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A194	2436323.50	1958 May?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A195	2436354.50	1958 Jun?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A196	2436354.50	1958 Jun?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A197	2436354.50	1958 Jun?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A198	2436354.50	1958 Jun?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A199	2436385.50	1958 Jul 1	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A200	2436398.50	1958 Jul 14	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A201	2436401.50	1958 Jul 17	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A202	2436409.23	1958 Jul 24 1730	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A203	2436409.23	1958 Jul 24 1730	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A204	2436414.17	1958 Jul 29 1605?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A205	2436414.17	1958 Jul 29 1605?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	AWST580707-36	-
1958-A217	2436513.50	1958 Nov 6	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A218	2436526.50	1958 Nov 19	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1958-A189	2436547.50	1958 Dec 10	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1959-A257	2436575.50	1959 Jan 7	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A258	2436575.50	1959 Jan 7	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A16	2436599.36	1959 Jan 30 2040	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A22	2436603.35	1959 Feb 3 2025	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A259	2436605.50	1959 Feb 6	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A24	2436606.50	1959 Feb 7	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A25	2436610.40	1959 Feb 10 2130	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A27	2436612.33	1959 Feb 12 1948	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A260	2436617.50	1959 Feb 18	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A31	2436619.25	1959 Feb 19 1804	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A244	2436625.50	1959 Feb 26	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1959-A41	2436631.41	1959 Mar 3 2145	Nike Hercules	-	-	0.000	ORD	MS	-	RCAF/USA	Test	FC	-	-
1959-A261	2436638.50	1959 Mar 11	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A262	2436688.50	1959 May	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A241	2436743.50	1959 Jun 24	Nike Hercules	-	-	0.000	ORD	MF	U	-	Test	NHercHistory	-	-
1959-A263	2436719.50	1959 Jun?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A245	2436759.50	1959 Jul 10	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1959-A246	2436780.50	1959 Jul 31	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1959-A264	2436780.50	1959 Aug?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A266	2436808.50	1959 Aug 28	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A265	2436811.50	1959 Sep	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A267	2436860.50	1959 Oct 19	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1959-A239	2436919.51	1959 Dec 17 0010	Nike Hercules	-	562Art Btn 2 Bat B	0.000	ORD	MS	-	USA/	Test	HAER-NikeAK	-	-
1959-A240	2436920.34	1959 Dec 17 2011	Nike Hercules	-	562Art Btn 2 Bat B	0.000	ORD	MS	-	USA/	Test	HAER-NikeAK	-	-
1959-A242	2436921.50	1959 Dec 19	Nike Hercules	-	-	0.000	ORD	MF	U	-	Test	NHercHistory	-	-
1959-A243	2436902.50	1959 Dec?	Nike Hercules	-	-	0.000	ORD	MS	-	-	Test	NHercHistory	-	-
1960-A377	2436967.50	1960 Feb 3	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	WindSand600212	-	-
1960-A363	2436969.50	1960 Feb 5	Nike Hercules	-	B-281	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A364	2436990.50	1960 Feb 26	Nike Hercules	-	B-284	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A365	2436990.50	1960 Feb 26	Nike Hercules	-	B-285	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A366	2436995.50	1960 Mar 2	Nike Hercules	-	B-286	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A329	2437008.50	1960 Mar 15	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	HAER-NikeAK	-	-
1960-A332	2437011.50	1960 Mar 18	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	NHercHistory	-	-
1960-A333	2437032.50	1960 Apr 8	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	NHercHistory	-	-
1960-A334	2437038.50	1960 Apr 14	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	NHercHistory	-	-
1960-A367	2437050.50	1960 Apr 26	Nike Hercules	-	B-293	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A341	2437071.50	1960 May 17	Nike Hercules	-	B-294	0.000	ORD	MS	-	USA/	Test	NH-Bell	-	-
1960-A335	2437086.50	1960 Jun 1	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	NHercHistory	-	-
1960-A139	2437088.50	1960 Jun 3	Nike Hercules	-	INH-2	0.000	ORD	MS	-	-	Test	redstone.army.mil	-	-
1960-A344	2437100.50	1960 Jun 15	Nike Hercules	-	INH-4	0.000	ORD	MS	-	-	Test	redstone.army.mil	-	-
1960-A345	2437100.50	1960 Jun 15	Nike Hercules	-	INH-3 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A346	2437100.50	1960 Jun 15	Nike Hercules	-	INH-3	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A357	2437121.50	1960 Jul 6	Nike Hercules	-	B-299	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A360	2437126.50	1960 Jul 11	Nike Hercules	-	INH-5	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A342	2437130.50	1960 Jul 15	Nike Hercules	-	ZURF-8	0.000	ORD	MF	U	USA/	Test	NH-Bell	-	-
1960-A358	2437142.50	1960 Jul 27	Nike Hercules	-	B-303	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A347	2437158.50	1960 Aug 12	Nike Hercules	-	INH-6 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A348	2437158.50	1960 Aug 12	Nike Hercules	-	INH-6	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A349	2437163.50	1960 Aug 17	Nike Hercules	-	INH-8 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A350	2437163.50	1960 Aug 17	Nike Hercules	-	INH-8	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A361	2437163.50	1960 Aug 17	Nike Hercules	-	INH-7	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A336	2437182.50	1960 Sep 5	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	NHercHistory	-	-
1960-A351	2437191.50	1960 Sep 14	Nike Hercules	-	INH-9 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A352	2437191.50	1960 Sep 14	Nike Hercules	-	INH-9	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A362	2437191.50	1960 Sep 14	Nike Hercules	-	INH-10	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A353	2437213.50	1960 Oct 6	Nike Hercules	-	INH-11 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A354	2437213.50	1960 Oct 6	Nike Hercules	-	INH-11	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A359	2437219.50	1960 Oct 12	Nike Hercules	-	B-305	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A355	2437255.50	1960 Nov 17	Nike Hercules	-	INH-12 Target	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A356	2437255.50	1960 Nov 17	Nike Hercules	-	INH-12	0.000	ORD	MS	-	-	Test	NH-Bell	-	-
1960-A330	2437259.47	1960 Nov 20 2314	Nike Hercules	-	-	0.000	ORD	MS	-	USA/	Test	HAER-NikeAK	-	-
1960-A331	2437267.50	1960 Nov 29	Nike Hercules	-	B-310	0.000	ORD	MF	U	-	Test	NHercHistory	-	-
1961-A04	2437299.50	1961 Jan	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A38	2437330.50	1961 Feb	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A39	2437330.50	1961 Feb	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A40	2437330.50	1961 Feb	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A41	2437358.50	1961 Feb 28	Nike Hercules	-	SS-1	0.000	ORD	MU	-	-	Test	NH-Bell	WSMR	-
1961-A61	2437358.50	1961 Mar	Nike Hercules	-	SS-2?	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A62	2437358.50	1961 Mar	Nike Hercules	-	SS-3?	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A63	2437358.50	1961 Mar	Nike Hercules	-	SS-4?	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A64	2437358.50	1961 Mar	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A65	2437368.50	1961 Mar 10	Nike Hercules	-	INH-15	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A66	2437379.50	1961 Mar 21	Nike Hercules	-	INH-16	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A67	2437388.50	1961 Mar 30	Nike Hercules	-	B-314	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A90	2437389.50	1961 Apr	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A91	2437389.50	1961 Apr	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A92	2437389.50	1961 Apr	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A93	2437389.50	1961 Apr	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A94	2437389.50	1961 Apr	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A96	2437389.50	1961 Apr	Nike Hercules	-	SS-5?	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A97	2437416.50	1961 Apr 27	Nike Hercules	-	SS-6	0.000	ORD	MU	-	-	Test	NH-Bell	WSMR	-
1961-A95	2437419.50	1961 Apr 30	Nike Hercules	-	INH-17	0.000	ORD	MU	-	-	Test	NH-Bell	WSMR	-
1961-A119	2437419.50	1961 May	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A121	2437419.50	1961 May	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A120	2437439.50	1961 May 20	Nike Hercules	-	B-316	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A140	2437464.50	1961 Jun 14	Nike Hercules	-	B-317	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A181	2437511.50	1961 Aug	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A182	2437511.50	1961 Aug	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A193	2437542.50	1961 Sep	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A194	2437542.50	1961 Sep	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A195	2437562.50	1961 Sep 20	Nike Hercules	-	B-320	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A212	2437578.50	1961 Oct 6	Nike Hercules	-	B-321	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A228	2437620.50	1961 Nov 17	Nike Hercules	-	INH-13	0.000	ORD	MU	-	-	Test	WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A229	2437623.50	1961 Nov 20	Nike Hercules	-	INH-18	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A240	2437633.50	1961 Dec	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A244	2437638.50	1961 Dec 5	Nike Hercules	-	INH-19	0.000	ORD	MF	U	-	Test	WSMR	-	-
1961-A241	2437639.50	1961 Dec 6	Nike Hercules	-	STD 84HE	0.000	ORD	MU	-	-	Test	WSMR	-	-
1961-A242	2437645.50	1961 Dec 12	Nike Hercules	-	ZURF-13	0.000	ORD	MS	-	-	Test	WSMR	-	-
1961-A243	2437647.50	1961 Dec 14	Nike Hercules	-	ZURF-14	0.000	ORD	MS	-	-	Test	WSMR	-	-
1962-A04	2437676.50	1962 Jan 12	Nike Hercules	-	B-324	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A261	2437693.50	1962 Jan 29	Nike Hercules	-	STD 85HE	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A14	2437704.50	1962 Feb 9	Nike Hercules	-	B-325	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A151	2437737.50	1962 Mar 14	Nike Hercules	-	STD FS-4	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A28	2437751.50	1962 Mar 28	Nike Hercules	-	ZURF-15	0.000	ORD	MU	-	-	Test	WSMR	-	-
1962-A64	2437796.50	1962 May 12	Nike Hercules	-	B-326	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A89	2437843.50	1962 Jun 28	Nike Hercules	-	B-327	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A120	2437892.50	1962 Aug 16	Nike Hercules	-	B-328	0.000	ORD	MU	-	-	Test	Bell-NH	-	-
1962-A121	2437876.50	1962 Aug	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1962-A122	2437876.50	1962 Aug	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1962-A123	2437876.50	1962 Aug?	Nike Hercules	-	-	0.000	FTB2MB	MF	U	-	Test	DOMINIC	-	-
1962-A150	2437907.50	1962 Sep?	Nike Hercules	-	-	0.000	FTB2MB	MF	U	-	Test	DOMINIC	-	-
1962-S655	2437917.50	1962 Sep 10	Nike Hercules	-	B-330	0.000	ORD	MS	-	-	Test	WSMR	-	-
1962-A152	2437907.50	1962 Sep	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1962-A187	2437972.80	1962 Nov 4 0715?	Nike Hercules	-	-	0.000	FTB2MB	MS	-	-	Test	DOMINIC	-	-
1962-A188	2437972.80	1962 Nov 4 0715?	Nike Hercules	-	-	0.000	FTB2MB	MS	-	-	Nuclear Test	DOMINIC	-	-
1963-A03	2438029.50	1963 Jan	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1963-A17	2438060.50	1963 Feb	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1963-A29	2438088.50	1963 Mar	Nike Hercules	-	-	0.000	ORD	MU	-	-	Test	WSMR	-	-
1963-A222	2438122.50	1963 Apr 3	Nike Hercules	-	ATBM-1 Target	0.000	ORD	MS	-	-	Target	Bell-NH	-	-
1963-A221	2438122.50	1963 Apr 3	Nike Hercules	-	ATBM-1	0.000	ORD	MS	-	-	Test	Bell-NH	-	-
1963-A223	2438160.50	1963 May 11	Nike Hercules	-	ATBM-2	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A224	2438166.50	1963 May 17	Nike Hercules	-	ATBM-3 Target	0.000	MICOM	MS	-	-	Target	Bell-NH	-	-
1963-A217	2438166.50	1963 May 17	Nike Hercules	-	ATBM-3	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A225	2438177.50	1963 May 28	Nike Hercules	-	ATBM-4 Target	0.000	MICOM	MS	-	-	Target	Bell-NH	-	-
1963-A218	2438177.50	1963 May 28	Nike Hercules	-	ATBM-4	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A226	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-5 Target	0.000	MICOM	MS	-	-	Target	Bell-NH	-	-
1963-A219	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-5	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A227	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-8 Target	0.000	MICOM	MS	-	-	Target	Bell-NH	-	-
1963-A220	2438185.50	1963 Jun 5	Nike Hercules	-	ATBM-8	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A215	2438206.50	1963 Jun 26	Nike Hercules	-	ATBM-6	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A216	2438229.50	1963 Jul 19	Nike Hercules	-	ATBM-7	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A213	2438277.50	1963 Sep 5	Nike Hercules	-	ATBM-9 Target	0.000	MICOM	MS	-	-	Target	Bell-NH	-	-
1963-A214	2438277.50	1963 Sep 5	Nike Hercules	-	ATBM-9	0.000	MICOM	MS	-	-	Test	Bell-NH	-	-
1963-A131	2438302.50	1963 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1963-A132	2438307.50	1963 Oct 5	Nike Hercules	-	ATBM-11	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1963-A129	2438313.50	1963 Oct 11	Nike Hercules	-	ATBM-12	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1963-A130	2438326.50	1963 Oct 24	Nike Hercules	-	ATBM-13	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1963-A154	2438333.50	1963 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1963-A155	2438333.50	1963 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1963-A193	2438351.50	1963 Nov 18	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	-	-
1963-A156	2438372.50	1963 Dec 9	Nike Hercules	-	ATBM-14	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1963-A196	2438373.50	1963 Dec 10	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	-	-
1963-A157	2438381.50	1963 Dec 18	Nike Hercules	-	ATBM-15	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1964-A197	2438400.50	1964 Jan 6	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	-	-
1964-A211	2438409.50	1964 Jan 15	Nike Hercules	-	ATBM-17	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1964-A212	2438415.50	1964 Jan 21	Nike Hercules	-	ATBM-18	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1964-A198	2438415.50	1964 Jan 21	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	HAER-NikeAK	-
1964-A213	2438424.50	1964 Jan 30	Nike Hercules	-	ATBM-19	0.000	MICOM	MS	-	-	Test	WSMR	Bell-NH	-
1964-A141	2438668.50	1964 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A142	2438668.50	1964 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A143	2438668.50	1964 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A144	2438668.50	1964 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A161	2438699.50	1964 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A162	2438699.50	1964 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A163	2438699.50	1964 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1964-A164	2438699.50	1964 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A16	2438791.50	1965 Feb	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A17	2438791.50	1965 Feb	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A37	2438819.50	1965 Mar	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A52	2438850.50	1965 Apr	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A60	2438880.50	1965 May	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A77	2438911.50	1965 Jun	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A78	2438911.50	1965 Jun	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A92	2438941.50	1965 Jul	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A93	2438941.50	1965 Jul	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A138	2439033.50	1965 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A150	2439064.50	1965 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1965-A169	2439094.50	1965 Dec	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A01	2439125.50	1966 Jan	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A24	2439156.50	1966 Feb	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A49	2439215.50	1966 Apr	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A59	2439245.50	1966 May	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A60	2439245.50	1966 May	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A61	2439245.50	1966 May	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A72	2439276.50	1966 Jun	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A81	2439306.50	1966 Jul	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A82	2439306.50	1966 Jul	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A112	2439398.50	1966 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A113	2439398.50	1966 Oct	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A128	2439429.50	1966 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A129	2439429.50	1966 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A130	2439429.50	1966 Nov	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1966-A147	2439459.50	1966 Dec	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1967-A73	2439610.50	1967 May	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1967-A88	2439641.50	1967 Jun	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1967-A100	2439702.50	1967 Aug	Nike Hercules	-	-	0.000	MICOM	MU	-	-	Test	WSMR	-	-
1970-A157	2440627.50	1970 Feb 10	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	-	-
1970-A158	2440859.50	1970 Oct	Nike J	-	1	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A159	2440859.50	1970 Oct?	Nike J	-	2	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A160	2440859.50	1970 Oct?	Nike J	-	3	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A161	2440859.50	1970 Oct?	Nike J	-	4	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A162	2440890.50	1970 Nov?	Nike J	-	5	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A163	2440890.50	1970 Nov?	Nike J	-	6	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A164	2440890.50	1970 Nov?	Nike J	-	7	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A165	2440890.50	1970 Nov?	Nike J	-	8	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1970-A166	2440890.50	1970 Nov	Nike J	-	9	0.000	JDA	MS	-	-	Test	NHercHistory	-	-
1971-A117	2440951.50	1971	Nike Hercules	-	-	0.000	MICOM	MS	-	USA/	Test	Hollinger04	-	-
1978-A60	2443627.50	1978 Apr 29	Paekkom	-	1	0.000	ADD	MS	-	-	Test	An2015	-	-
1978-A61	2443628.50	1978 May?	Paekkom	-	2	0.000	ADD	MF	U	-	Test	An2015	-	-
1978-A62	2443598.50	1978 Q2?	Paekkom	-	3	0.000	ADD	MF	U	-	Test	An2015	-	-
1978-A63	2443598.50	1978 Q2?	Paekkom	-	4	0.000	ADD	MS	-	-	Test	An2015	-	-
1978-A64	2443689.50	1978 Q3?	Paekkom	-	5	0.000	ADD	MF	U	-	Test	An2015	-	-
1978-A65	2443689.50	1978 Q3?	Paekkom	-	6	0.000	ADD	MS	-	-	Test	An2015	-	-
1978-A66	2443689.50	1978 Q3?	Paekkom	-	7	0.000	ADD	MF	U	-	Test	An2015	-	-
1978-A67	2443767.50	1978 Sep 16	Paekkom	-	8	0.000	ADD	MS	-	-	Test	An2015	-	-
1978-A68	2443777.50	1978 Sep 26	Paekkom	-	9	0.000	ADD	MS	-	-	Test	An2015	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-A03	2431149.50	1944 Feb 29	Wasserfall	-	2	-	-	-	-	HVP	GWO?	-	-	0?	-	-
1944-A04	2431157.50	1944 Mar 8	Wasserfall	-	3	-	-	-	-	HVP	GWO?	-	-	1	-	-
1944-A61	2431393.50	1944 Oct 30	Wasserfall	-	-	-	-	-	-	HVP	-	-	-	17	-	-
1950-A23	2433420.50	1950 May 19	Hermes A-1	-	1	-	-	-	-	WS	LC33	-	-	0?	-	-
1950-A37	2433538.50	1950 Sep 14	Hermes A-1	-	2	-	-	-	-	WS	LC33	-	-	0?	-	-
1951-A02	2433685.50	1951 Feb 8	Hermes A-1	-	4	-	-	-	-	WS	LC33	-	-	24?	-	-
1951-A07	2433720.50	1951 Mar 15	Hermes A-1	-	5	-	-	-	-	WS	LC33	-	-	24?	-	-
1951-A15	2433762.50	1951 Apr 26	Hermes A-1	-	6	-	-	-	-	WS	LC33	-	-	24?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-A03	2431149.50	1944 Feb 29	Wasserfall	-	2	0.000	WEHR	MF	S1	-	Test	Alway-Shadow	-	-
1944-A04	2431157.50	1944 Mar 8	Wasserfall	-	3	0.000	WEHR	MS	-	-	Test	Alway-Shadow	-	-
1944-A61	2431393.50	1944 Oct 30	Wasserfall	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1950-A23	2433420.50	1950 May 19	Hermes A-1	-	1	0.000	ORD	MF	S1	-	Test	wsmr-history.org	-	-
1950-A37	2433538.50	1950 Sep 14	Hermes A-1	-	2	0.000	ORD	MF	S1	-	Test	wsmr-history.org	-	-
1951-A02	2433685.50	1951 Feb 8	Hermes A-1	-	4	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1951-A07	2433720.50	1951 Mar 15	Hermes A-1	-	5	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1951-A15	2433762.50	1951 Apr 26	Hermes A-1	-	6	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A116	2434449.50	1953 Mar 13	Hermes A-3A	-	1	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1953-A248	2434546.50	1953 Jun 18	Hermes A-3A	-	2	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1953-A324	2434602.50	1953 Aug 13	Hermes A-3A	-	3	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1953-A386	2434655.50	1953 Oct 5	Hermes A-3A	-	4	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1953-A409	2434671.50	1953 Oct 21	Hermes A-3A	-	5	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1953-A458	2434701.50	1953 Nov 20	Hermes A-3A	-	6	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1954-A20	2434757.50	1954 Jan 15	Hermes A-3A	-	7	RV-A-8	-	-	-	WS	LC33	-	-	30?	-	-
1954-A254	2434873.50	1954 May 11	Hermes A-3B	-	1	XSSM-A-16	-	-	-	WS	LC33	-	-	32	-	-
1954-A421	2434943.50	1954 Jul 20	Hermes A-3B	-	2/A-16	XSSM-A-16	-	-	-	WS	LC33	-	-	35	-	-
1954-A491	2434980.50	1954 Aug 26	Hermes A-3B	-	3	XSSM-A-16	-	-	-	WS	LC33	-	-	3	-	-
1954-A530	2435006.50	1954 Sep 21	Hermes A-3B	-	4	XSSM-A-16	-	-	-	WS	LC33	-	-	36	-	-
1954-A580	2435034.50	1954 Oct 19	Hermes A-3B	-	5	XSSM-A-16	-	-	-	WS	LC33	-	-	36	-	-
1954-A633	2435062.50	1954 Nov 16	Hermes A-3B	-	6	XSSM-A-16	-	-	-	WS	LC33	-	-	34	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A116	2434449.50	1953 Mar 13	Hermes A-3A	-	1	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1953-A248	2434546.50	1953 Jun 18	Hermes A-3A	-	2	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1953-A324	2434602.50	1953 Aug 13	Hermes A-3A	-	3	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1953-A386	2434655.50	1953 Oct 5	Hermes A-3A	-	4	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1953-A409	2434671.50	1953 Oct 21	Hermes A-3A	-	5	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1953-A458	2434701.50	1953 Nov 20	Hermes A-3A	-	6	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1954-A20	2434757.50	1954 Jan 15	Hermes A-3A	-	7	0.000	ORD	MS	-	-	Test	wsmr-history.org	-	-
1954-A254	2434873.50	1954 May 11	Hermes A-3B	-	1	0.000	GEMTS	MS	-	-	Test	WSMR-PAO	-	-
1954-A421	2434943.50	1954 Jul 20	Hermes A-3B	-	2/A-16	0.000	GEMTS	MS	-	-	Test	WSMR-PAO	-	-
1954-A491	2434980.50	1954 Aug 26	Hermes A-3B	-	3	0.000	GEMTS	MF	U	-	Test	WSMR-PAO	-	-
1954-A530	2435006.50	1954 Sep 21	Hermes A-3B	-	4	0.000	GEMTS	MS	-	-	Test	WSMR-PAO	-	-
1954-A580	2435034.50	1954 Oct 19	Hermes A-3B	-	5	0.000	GEMTS	MS	-	-	Test	WSMR-PAO	-	-
1954-A633	2435062.50	1954 Nov 16	Hermes A-3B	-	6	0.000	GEMTS	MS	-	-	Test	WSMR-PAO	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A30	2438088.50	1963 Feb 28	Hopi Dart	-	F1	-	-	-	-	WI	-	-	-	1	-	-
1963-A44	2438115.50	1963 Mar 27	Hopi Dart	-	F2	-	-	-	-	WI	-	-	-	1	-	-
1963-A62	2438144.50	1963 Apr 25	Hopi Dart	-	F3	-	-	-	-	WI	-	-	-	1	-	-
1963-A203	2438029.50	1963	Raven	-	1	-	-	-	-	WS	-	-	-	20	-	-
1963-A204	2438029.50	1963	Raven	-	2	-	-	-	-	WS	-	-	-	15	-	-
1963-A205	2438029.50	1963	Raven	-	3	-	-	-	-	WS	-	-	-	22	-	-
1963-A206	2438029.50	1963	Raven	-	4	-	-	-	-	WS	-	-	-	40	-	-
1963-W12	2438119.50	1963 Apr	Raven	-	5	-	-	-	-	WS	-	-	-	67	-	-
1963-W13	2438119.50	1963 Apr	Raven	-	6	-	-	-	-	WS	-	-	-	66	-	-
1963-W14	2438149.50	1963 May	Raven	-	7	-	-	-	-	WS	-	-	-	63	-	-
1963-W46	2438029.50	1963	Raven	-	8	-	-	-	-	WS	-	-	-	65	-	-
1963-W47	2438029.50	1963	Raven	-	9	-	-	-	-	WS	-	-	-	61	-	-
1963-W48	2438029.50	1963	Raven	-	10	-	-	-	-	WS	-	-	-	67	-	-
1963-A207	2438029.50	1963?	Raven	-	11	-	-	-	-	WS	-	-	-	9	-	-
1963-A208	2438029.50	1963?	Raven	-	12	-	-	-	-	WS	-	-	-	12	-	-
1963-A209	2438029.50	1963?	Raven	-	13	-	-	-	-	WS	-	-	-	10	-	-
1963-A202	2438029.50	1963?	Raven	-	14	-	-	-	-	WS	-	-	-	10	-	-
1963-W49	2438029.50	1963?	Raven	-	15	-	-	-	-	WS	-	-	-	64	-	-
1963-A71	2438158.50	1963 May 9	Hopi Dart	-	F4	-	-	-	-	WI	-	-	-	22	-	-
1963-W17	2438159.50	1963 May 10	Hopi Dart	-	F5	-	-	-	-	WI	-	-	-	64	-	-
1963-W23	2438185.50	1963 Jun 5	Hopi Dart	-	F6	-	-	-	-	WI	-	-	-	63	-	-
1963-Y02	2438228.50	1963 Jul 18	Hopi Dart	-	F7	-	-	-	-	WI	-	-	-	95	-	-
1963-Y03	2438248.50	1963 Aug 7	Hopi Dart	-	F8	-	-	-	-	WI	-	-	-	95	-	-
1963-Y04	2438250.50	1963 Aug 9	Hopi Dart	-	F9	-	-	-	-	WI	-	-	-	93	-	-
1963-Y05	2438263.50	1963 Aug 22	Hopi Dart	-	F10	-	-	-	-	WI	-	-	-	90	-	-
1963-A122	2438263.50	1963 Aug 22	Hopi Dart	-	F11	-	-	-	-	WI	-	-	-	1	-	-
1963-Y10	2438331.50	1963 Oct 29	Hopi Dart	-	F12	-	-	-	-	TTR	-	-	-	90	-	-
1963-Y11	2438331.50	1963 Oct 29	Hopi Dart	-	F13	-	-	-	-	TTR	-	-	-	90	-	-
1963-Y12	2438331.50	1963 Oct 29	Hopi Dart	-	F14	-	-	-	-	TTR	-	-	-	90	-	-
1964-A192	2438394.50	1964?	Raven	-	16	-	-	-	-	WS	-	-	-	33	-	-
1964-W136	2438394.50	1964?	Raven	-	17	-	-	-	-	WS	-	-	-	53	-	-
1964-W137	2438394.50	1964?	Raven	-	18	-	-	-	-	WS	-	-	-	61	-	-
1964-A193	2438394.50	1964?	Raven	-	19	-	-	-	-	WS	-	-	-	11	-	-
1964-W138	2438394.50	1964?	Raven	-	20	-	-	-	-	WS	-	-	-	61	-	-
1964-A194	2438394.50	1964?	Raven	-	21	-	-	-	-	WS	-	-	-	4	-	-
1964-W139	2438394.50	1964?	Raven	-	22	-	-	-	-	WS	-	-	-	62	-	-
1964-A195	2438394.50	1964?	Raven	-	23	-	-	-	-	WS	-	-	-	18	-	-
1964-W140	2438394.50	1964?	Raven	-	24	-	-	-	-	WS	-	-	-	63	-	-
1964-A196	2438394.50	1964?	Raven	-	25	-	-	-	-	WS	-	-	-	13	-	-
1964-Y07	2438439.27	1964 Feb 13 1828	Hopi Dart	-	F15	-	-	-	-	CC	LC43	-	-	90	-	-
1964-Y08	2438439.41	1964 Feb 13 2145	Hopi Dart	-	F16	-	-	-	-	CC	LC43	-	-	90	-	-
1964-Y112	2438440.27	1964 Feb 14 1830?	Hopi Dart	-	F17	-	-	-	-	CC	LC43	-	-	90	-	-
1964-Y09	2438440.38	1964 Feb 14 2103	Hopi Dart	-	F18	-	-	-	-	CC	LC43	-	-	90	-	-
1964-Y90	2438683.39	1964 Oct 14 2123	Hopi Dart	-	F19	-	-	-	-	WI	-	-	-	90	-	-
1964-Y91	2438683.42	1964 Oct 14 2200	Hopi Dart	-	F20	-	-	-	-	WI	-	-	-	90	-	-
1964-Y110	2438723.41	1964 Nov 23 2148	Hopi Dart	-	F21	-	-	-	-	WI	-	-	-	90	-	-
1964-Y111	2438723.42	1964 Nov 23 2211	Hopi Dart	-	F22	-	-	-	-	WI	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A30	2438088.50	1963 Feb 28	Hopi Dart	-	F1	0.000	MSFC	SF	U	MSFC/	Test	Morrow	-	-
1963-A44	2438115.50	1963 Mar 27	Hopi Dart	-	F2	0.000	MSFC	SF	U	MSFC/	Test	Morrow	-	-
1963-A62	2438144.50	1963 Apr 25	Hopi Dart	-	F3	0.000	MSFC	SF	U	MSFC/	Test	Morrow	-	-
1963-A203	2438029.50	1963	Raven	-	1	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A204	2438029.50	1963	Raven	-	2	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A205	2438029.50	1963	Raven	-	3	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A206	2438029.50	1963	Raven	-	4	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-W12	2438119.50	1963 Apr	Raven	-	5	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-W13	2438119.50	1963 Apr	Raven	-	6	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-W14	2438149.50	1963 May	Raven	-	7	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-W46	2438029.50	1963	Raven	-	8	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-W47	2438029.50	1963	Raven	-	9	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-W48	2438029.50	1963	Raven	-	10	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-A207	2438029.50	1963?	Raven	-	11	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A208	2438029.50	1963?	Raven	-	12	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A209	2438029.50	1963?	Raven	-	13	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-A202	2438029.50	1963?	Raven	-	14	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1963-W49	2438029.50	1963?	Raven	-	15	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1963-A71	2438158.50	1963 May 9	Hopi Dart	-	F4	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-W17	2438159.50	1963 May 10	Hopi Dart	-	F5	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-W23	2438185.50	1963 Jun 5	Hopi Dart	-	F6	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-Y02	2438228.50	1963 Jul 18	Hopi Dart	-	F7	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-Y03	2438248.50	1963 Aug 7	Hopi Dart	-	F8	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-Y04	2438250.50	1963 Aug 9	Hopi Dart	-	F9	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-Y05	2438263.50	1963 Aug 22	Hopi Dart	-	F10	0.000	MSFC	SS	-	MSFC/	Test	Morrow	-	-
1963-A122	2438263.50	1963 Aug 22	Hopi Dart	-	F11	0.000	MSFC	SF	U	MSFC/	Test	Morrow	-	-
1963-Y10	2438331.50	1963 Oct 29	Hopi Dart	-	F12	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1963-Y11	2438331.50	1963 Oct 29	Hopi Dart	-	F13	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1963-Y12	2438331.50	1963 Oct 29	Hopi Dart	-	F14	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1964-A192	2438394.50	1964?	Raven	-	16	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1964-W136	2438394.50	1964?	Raven	-	17	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1964-W137	2438394.50	1964?	Raven	-	18	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1964-A193	2438394.50	1964?	Raven	-	19	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1964-W138	2438394.50	1964?	Raven	-	20	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1964-A194	2438394.50	1964?	Raven	-	21	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1964-W139	2438394.50	1964?	Raven	-	22	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1964-A195	2438394.50	1964?	Raven	-	23	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1964-W140	2438394.50	1964?	Raven	-	24	0.000	ONR	SS	-	ONR/	Meteo	Morrow	-	-
1964-A196	2438394.50	1964?	Raven	-	25	0.000	ONR	SF	U	ONR/	Meteo	Morrow	-	-
1964-Y07	2438439.27	1964 Feb 13 1828	Hopi Dart	-	F15	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	CC	-
1964-Y08	2438439.41	1964 Feb 13 2145	Hopi Dart	-	F16	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	CC	-
1964-Y112	2438440.27	1964 Feb 14 1830?	Hopi Dart	-	F17	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1964-Y09	2438440.38	1964 Feb 14 2103	Hopi Dart	-	F18	0.000	MSFC	SS	-	MSFC/	Aeron	TM-X-53303	CC	-
1964-Y90	2438683.39	1964 Oct 14 2123	Hopi Dart	-	F19	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1964-Y91	2438683.42	1964 Oct 14 2200	Hopi Dart	-	F20	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1964-Y110	2438723.41	1964 Nov 23 2148	Hopi Dart	-	F21	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-
1964-Y111	2438723.42	1964 Nov 23 2211	Hopi Dart	-	F22	0.000	MSFC	SS	-	MSFC/	Aeron	Morrow	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2016-A41	2457676.65	2016 Oct 15 0333	Hwasong-12	?	-	-	-	-	-	KUSONG	LP1	-	-	0?	-	-
2016-A42	2457681.42	2016 Oct 19 2200	Hwasong-12	?	-	-	-	-	-	KUSONG	LP1	-	-	0?	-	-
2017-S25	2457848.40	2017 Apr 4 2142	Hwasong-12	-	KN-17	-	-	-	-	SINPO	-	-	-	189	60	Sea of J.
2017-A04	2457859.39	2017 Apr 15 2120	Hwasong-12	-	KN-17	-	-	-	-	SINPO	-	-	-	1?	-	Sea of J.
2017-M01	2457872.36	2017 Apr 28 2033	Hwasong-12	-	KN-17	-	-	-	-	PUKCH	-	-	-	71	39	Tokchon
2017-S31	2457887.35	2017 May 13 2028	Hwasong-12	-	KN-17	11831851	-	-	-	KUSONG	LP3	-	-	2111	787	134.6E 41.6N
2017-S53	2457938.53	2017 Jul 4 0040	Hwasong-14	-	KN-20	36311771	-	-	-	KUSONG	LP4	-	-	2802	933	-
2017-S62	2457963.11	2017 Jul 28 1441	Hwasong-14	-	KN-20	36311672	-	-	-	MUPYONG	LP1	-	-	3725	998	-
2017-S74	2457994.37	2017 Aug 28 2058	Hwasong-12	-	KN-17	11831805	-	-	-	SUNAN	-	-	-	550	2700	-
2017-S78	2458011.41	2017 Sep 14 2157	Hwasong-12	-	KN-17	11831896	-	-	-	SUNAN	-	-	-	770	3700	-
2021-M07	2459485.40	2021 Sep 27 2140	Hwasong-12A	-	-	-	Hwasong 12A	-	-	MUPYONG	LP2	-	-	60?	200?	-
2022-M01	2459584.47	2022 Jan 4 2310	Hwasong-12A	-	-	-	Glide RV	-	-	MUPYONG	LP1	-	-	50	700	-
2022-M02	2459590.44	2022 Jan 10 2227	Hwasong-12A	-	-	-	Glide RV?	-	-	MUPYONG	LP2?	-	-	60	700	-
2022-S11	2459609.45	2022 Jan 29 2252	Hwasong-12	?	-	-	-	-	-	MUPYONG	LP1	-	-	2000	800	-
2022-S13	2459637.45	2022 Feb 26 2252	Hwasong-12A	?	-	-	Recon Test	-	-	SUNAN	-	-	-	620	300	-
2022-S14	2459643.49	2022 Mar 4 2348	Hwasong-12A	?	-	-	Recon Test	-	-	SUNAN	-	-	-	550	300	-
2022-S30	2459703.63	2022 May 4 0304?	Hwasong-12A	?	-	-	Recon Test?	-	-	SUNAN	LP2	-	-	780	470	-
2022-S35	2459724.32	2022 May 24 1937	Hwasong-12A	?	-	-	-	-	-	SUNAN	-	-	-	50	750	-
2022-S36	2459724.32	2022 May 24 1942	Hwasong-12A	?	-	-	Recon Test?	-	-	SUNAN	-	-	-	550	300	-
2022-S88	2459856.43	2022 Oct 3 2222	Hwasong-12	A	-	-	-	-	-	MUPYONG	LP1?	-	-	970	4500	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2016-A41	2457676.65	2016 Oct 15 0333	Hwasong-12	?	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-A42	2457681.42	2016 Oct 19 2200	Hwasong-12	?	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2017-S25	2457848.40	2017 Apr 4 2142	Hwasong-12	-	KN-17	0.000	JRG	MF	U	-	Test	Wire	-	-
2017-A04	2457859.39	2017 Apr 15 2120	Hwasong-12	-	KN-17	0.000	JRG	MF	U	-	Test	Wire	-	-
2017-M01	2457872.36	2017 Apr 28 2033	Hwasong-12	-	KN-17	0.000	JRG	MF	U	-	Test	Wire	-	-
2017-S31	2457887.35	2017 May 13 2028	Hwasong-12	-	KN-17	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S53	2457938.53	2017 Jul 4 0040	Hwasong-14	-	KN-20	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S62	2457963.11	2017 Jul 28 1441	Hwasong-14	-	KN-20	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S74	2457994.37	2017 Aug 28 2058	Hwasong-12	-	KN-17	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S78	2458011.41	2017 Sep 14 2157	Hwasong-12	-	KN-17	0.000	JRG	MS	-	-	Test	Wire	-	-
2021-M07	2459485.40	2021 Sep 27 2140	Hwasong-12A	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-M01	2459584.47	2022 Jan 4 2310	Hwasong-12A	-	-	0.000	JRG	MS	-	NKDSI/	Test	Wire	-	-
2022-M02	2459590.44	2022 Jan 10 2227	Hwasong-12A	-	-	0.000	JRG	MS	-	NKDSI/	Test	Wire	-	-
2022-S11	2459609.45	2022 Jan 29 2252	Hwasong-12	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-S13	2459637.45	2022 Feb 26 2252	Hwasong-12A	?	-	0.000	JRG/NADA	SS	-	NADA/	Test	Wire	-	-
2022-S14	2459643.49	2022 Mar 4 2348	Hwasong-12A	?	-	0.000	JRG/NADA	SS	-	NADA/	Test	Wire	-	-
2022-S30	2459703.63	2022 May 4 0304?	Hwasong-12A	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-S35	2459724.32	2022 May 24 1937	Hwasong-12A	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-S36	2459724.32	2022 May 24 1942	Hwasong-12A	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-S88	2459856.43	2022 Oct 3 2222	Hwasong-12	A	-	0.000	JRG	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-S102	2458086.26	2017 Nov 28 1818	Hwasong-15	-	-	Missile 11111701	-	-	-	PYONGS	-	-	-	4475	950	-
2022-S110	2459886.49	2022 Nov 2 2340	Hwasong-15	?	-	-	-	-	-	SUNAN	LP1?	-	-	1920	760	-
2022-A07	2459654.52	2022 Mar 16 0030	Hwasong-17	?	-	Missile 03031203	-	-	-	SUNAN	LP1	-	-	10?	0	-
2022-U01	2459662.73	2022 Mar 24 0534	Hwasong-17	?	-	-	-	Hwasong-15?	-	SUNAN	LP1	-	-	6248	1090	-
2022-U03	2459901.55	2022 Nov 18 0114	Hwasong-17	-	-	Missile 09151751	-	-	-	SUNAN	LP4	-	-	6100	1000	-
2023-U01	2459993.85	2023 Feb 18 0822	Hwasong-15	-	-	-	-	-	-	SUNAN	LP4	-	-	5768	989	-
2023-U02	2460019.42	2023 Mar 15 2210	Hwasong-17	-	-	Missile 09151775	-	-	-	SUNAN	LP5	-	-	6045	1000	136E 41N?
2023-F06	2460095.39	2023 May 30 2127	Cheonlima-1	-	6	Manligyeong-1 F1	-	-	-	SOHAE	LC2	-	-	150?	-	-
2023-F07	2460180.28	2023 Aug 23 1850?	Cheonlima-1	-	-	Manligyeong-1 F2	-	-	-	SOHAE	LC2	-	-	500?	-	-
2023-179	2460270.07	2023 Nov 21 1342:58	Cheonlima-1	-	-	Manligyeong-1 F3	-	-	-	SOHAE	LC2	-	-	-	-	-
2023-A20	2460271.09	2023 Nov 22 1405	Hwasong-15	?	-	Unknown missile	-	-	-	SUNAN	-	-	-	10?	0	-
2024-F02	2460458.07	2024 May 27 1344?	NK Kerolox LV	-	-	Manligyeong-1 F4	-	-	-	SOHAE	LC2	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-S102	2458086.26	2017 Nov 28 1818	Hwasong-15	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-S110	2459886.49	2022 Nov 2 2340	Hwasong-15	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-A07	2459654.52	2022 Mar 16 0030	Hwasong-17	?	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2022-U01	2459662.73	2022 Mar 24 0534	Hwasong-17	?	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2022-U03	2459901.55	2022 Nov 18 0114	Hwasong-17	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2023-U01	2459993.85	2023 Feb 18 0822	Hwasong-15	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2023-U02	2460019.42	2023 Mar 15 2210	Hwasong-17	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2023-F06	2460095.39	2023 May 30 2127	Cheonlima-1	-	6	0.200	KCST	OF	S2I	G	Sat SSO O	nknews.org	-	S2 startup problem
2023-F07	2460180.28	2023 Aug 23 1850?	Cheonlima-1	-	-	0.200	KCST	OF	AD	G	Sat SSO O	nknews.org	-	Stage 3 accidental destruct
2023-179	2460270.07	2023 Nov 21 1342:58	Cheonlima-1	-	-	0.200	KCST	OS	-	G	Sat SSO O	nknews.org	-	-
2023-A20	2460271.09	2023 Nov 22 1405	Hwasong-15	?	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2024-F02	2460458.07	2024 May 27 1344?	NK Kerolox LV	-	-	0.200	KCST	OF	S1P	G	Sat SSO O	Wire	-	Stage 1 explosion

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-A07	2459654.52	2022 Mar 16 0030	Hwasongpho-17	?	-	03031203	-	-	-	SUNAN	LP1	-	-	10?	0	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Agency	Launch_Code	Group	Category	LTCite	Cite	Notes
2022-A07	2459654.52	2022 Mar 16 0030	Hwasongpho-17	?	-	JRG	MF	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-S15	2460047.43	2023 Apr 12 2223	Hwasong-18	-	-	-	-	-	-	CHDONG	-	-	-	2500?	1000?	-
2023-U03	2460137.54	2023 Jul 12 0059	Hwasong-18	-	-	-	-	-	-	CHDONG	-	-	-	6648	1001	-
2023-U04	2460296.48	2023 Dec 17 2324	Hwasong-18	-	-	-	-	-	-	CHDONG	-	-	-	6518	1002	137E 42N
2024-M01	2460323.75	2024 Jan 14 0555	Hwasong-16	-	-	Solid prop	-	-	-	CHDONG	-	-	-	50	1000	-
2024-S12	2460402.41	2024 Apr 1 2152	Hwasong-16Na	-	-	HGV	19050815	-	-	CHDONG?	-	-	-	101	1000	-
2024-S41	2460487.35	2024 Jun 25 2030	Hwasong-16Na	-	-	MIRV	Hwasong-16Na?	-	-	CHDONG	-	-	-	100	200	-
2024-U05	2460614.42	2024 Oct 30 2211	Hwasong-19	-	-	-	-	-	-	CHDONG?	-	-	-	7687	1001	137E 42N
2025-S01	2460681.62	2025 Jan 6 0300	Hwasong-16Na	?	-	-	-	-	-	CHDONG?	-	-	-	100	1100	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-S15	2460047.43	2023 Apr 12 2223	Hwasong-18	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2023-U03	2460137.54	2023 Jul 12 0059	Hwasong-18	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2023-U04	2460296.48	2023 Dec 17 2324	Hwasong-18	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2024-M01	2460323.75	2024 Jan 14 0555	Hwasong-16	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2024-S12	2460402.41	2024 Apr 1 2152	Hwasong-16Na	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2024-S41	2460487.35	2024 Jun 25 2030	Hwasong-16Na	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2024-U05	2460614.42	2024 Oct 30 2211	Hwasong-19	-	-	0.000	JRG	MS	-	-	Sat LEO S	Wire	-	-
2025-S01	2460681.62	2025 Jan 6 0300	Hwasong-16Na	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-M51	2445272.50	1982 Oct 30	Hyunmoo-1	-	-	-	-	-	-	ANHU	-	-	-	50?	180?	-
1986-M100	2446430.50	1986	Hyunmoo-1	-	-	-	-	-	-	ANHU	-	-	-	50?	180?	-
2006-S79	2453735.50	2006	Hyunmoo-2A	?	-	-	-	-	-	ANHU	LP1?	-	-	150?	300?	-
2012-S96	2455926.50	2012	Hyunmoo-2A	?	-	-	-	-	-	ANHU	LP1?	-	-	150?	500?	-
2014-S16	2456739.50	2014 Mar 23	Hyunmoo-2B	?	-	-	-	-	-	ANHU	LP1?	-	-	150?	500?	-
2015-S37	2457176.50	2015 Jun 3	Hyunmoo-2B	?	-	-	-	-	-	ANHU	LP1	-	-	150	500	-
2017-S26	2457812.50	2017 Mar	Hyunmoo-2C	-	-	-	-	-	SIR?	ANHU	-	-	-	150	500	-
2017-S47	2457927.56	2017 Jun 23 0130?	Hyunmoo-2C	-	-	-	-	-	SIR	ANHU	-	-	-	150	500	-
2017-S55	2457939.42	2017 Jul 4 2200?	Hyunmoo-2B	?	-	-	-	-	-	GOSEONG	-	-	-	150?	-	-
2017-S64	2457963.42	2017 Jul 28 2200?	Hyunmoo-2B	?	-	-	-	-	-	GOSEONG	-	-	-	150?	-	-
2017-S71	2457988.50	2017 Aug 23	Hyunmoo-2C	?	-	-	-	-	-	ANHU	LP1	-	-	150?	350?	-
2017-S72	2457988.50	2017 Aug 23	Hyunmoo-2C	?	-	-	-	-	-	ANHU	LP2?	-	-	150?	350?	-
2017-S73	2457990.50	2017 Aug 25?	Hyunmoo-2B	?	-	-	-	-	-	ANHU	LP3?	-	-	150?	300?	-
2017-S76	2458000.38	2017 Sep 3 2100?	Hyunmoo-2A	-	-	-	-	-	-	GOSEONG?	-	-	-	150?	300?	-
2017-S79	2458011.42	2017 Sep 14 2205	Hyunmoo-2A	-	-	-	-	-	-	GOSEONG	-	-	-	150?	250	-
2017-A12	2458011.42	2017 Sep 14 2205	Hyunmoo-2A	-	-	-	-	-	-	GOSEONG	-	-	-	1?	-	-
2017-S103	2458086.27	2017 Nov 28 1823	Hyunmoo-2B	?	-	Precision Strike Ex.	-	-	-	GOSEONG?	-	-	-	150?	300?	-
2020-S21	2458932.50	2020 Mar 24	Hyunmoo-4	-	-	-	-	-	-	ANHU	-	-	-	150?	350?	-
2020-A12	2458932.50	2020 Mar 24	Hyunmoo-4	-	-	-	-	-	-	ANHU	-	-	-	1?	-	-
2021-A19	2459458.50	2021 Sep 1?	Hyunmoo-4	-	Hyunmoo-4-4	Sub ejection test	-	-	SS-083	ANHU	-	-	-	1?	-	-
2021-S62	2459472.50	2021 Sep 15	Hyunmoo-4	-	Hyunmoo-4-4	Sub launch	-	-	SS-083	ANHU	-	-	-	150?	-	-
2022-S28	2459687.50	2022 Apr 18	Hyunmoo-4	-	Hyunmoo-4-4	Sub launch	-	-	SS-083	ANHU	-	-	-	150?	400	-
2022-S29	2459687.50	2022 Apr 18	Hyunmoo-4	-	Hyunmoo-4-4	Sub launch	-	-	SS-083	ANHU	-	-	-	150?	400	-
2022-S92	2459857.17	2022 Oct 4 1600?	Hyunmoo-2B	?	-	-	-	-	-	GANGN	-	-	-	80?	-	-
2022-A26	2459857.17	2022 Oct 4 1600?	Hyunmoo-2B	?	-	-	-	-	-	GANGN	-	-	-	0?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-M51	2445272.50	1982 Oct 30	Hyunmoo-1	-	-	0.000	ADD	MS	-	-	Test	An2015	-	-
1986-M100	2446430.50	1986	Hyunmoo-1	-	-	0.000	ADD	MS	-	-	Test	An2015	-	-
2006-S79	2453735.50	2006	Hyunmoo-2A	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2012-S96	2455926.50	2012	Hyunmoo-2A	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2014-S16	2456739.50	2014 Mar 23	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2015-S37	2457176.50	2015 Jun 3	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2017-S26	2457812.50	2017 Mar	Hyunmoo-2C	-	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2017-S47	2457927.56	2017 Jun 23 0130?	Hyunmoo-2C	-	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2017-S55	2457939.42	2017 Jul 4 2200?	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	usfk.mil	-	-
2017-S64	2457963.42	2017 Jul 28 2200?	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	usfk.mil	-	-
2017-S71	2457988.50	2017 Aug 23	Hyunmoo-2C	?	-	0.000	ADD	MS	-	-	Test	twitter/nktpnd	-	-
2017-S72	2457988.50	2017 Aug 23	Hyunmoo-2C	?	-	0.000	ADD	MS	-	-	Test	twitter/nktpnd	-	-
2017-S73	2457990.50	2017 Aug 25?	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	twitter/nktpnd	-	-
2017-S76	2458000.38	2017 Sep 3 2100?	Hyunmoo-2A	-	-	0.000	ADD	MS	-	-	Test	twitter/nktpnd	-	-
2017-S79	2458011.42	2017 Sep 14 2205	Hyunmoo-2A	-	-	0.000	ADD	MS	-	-	Test	twitter/nktpnd	-	-
2017-A12	2458011.42	2017 Sep 14 2205	Hyunmoo-2A	-	-	0.000	ADD	MF	U	-	Test	twitter/nktpnd	-	-
2017-S103	2458086.27	2017 Nov 28 1823	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2020-S21	2458932.50	2020 Mar 24	Hyunmoo-4	-	-	0.000	ADD	MS	-	-	Test	AWST200518-37	-	-
2020-A12	2458932.50	2020 Mar 24	Hyunmoo-4	-	-	0.000	ADD	MF	U	-	Test	AWST200518-37	-	-
2021-A19	2459458.50	2021 Sep 1?	Hyunmoo-4	-	Hyunmoo-4-4	0.000	ADD/ROKN	MS	-	-	Test	Wire	-	-
2021-S62	2459472.50	2021 Sep 15	Hyunmoo-4	-	Hyunmoo-4-4	0.000	ADD/ROKN	MS	-	-	Test	Wire	-	-
2022-S28	2459687.50	2022 Apr 18	Hyunmoo-4	-	Hyunmoo-4-4	0.000	ADD/ROKN	MS	-	-	Test	Wire	-	-
2022-S29	2459687.50	2022 Apr 18	Hyunmoo-4	-	Hyunmoo-4-4	0.000	ADD/ROKN	MS	-	-	Test	Wire	-	-
2022-S92	2459857.17	2022 Oct 4 1600?	Hyunmoo-2B	?	-	0.000	ADD	MS	-	-	Test	Wire	-	-
2022-A26	2459857.17	2022 Oct 4 1600?	Hyunmoo-2B	?	-	0.000	ADD	MF	U	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S522	2439053.50	1965 Oct 20	Orion-1	-	No. 1	-	-	-	-	CELPA?	-	-	-	90?	-	-
1966-S700	2439264.50	1966 May 19	Orion-2	-	-	-	-	-	-	CELPA	-	-	-	100?	-	-
1966-S348	2439306.50	1966 Jul	Orion-1	-	No. 8	-	-	-	-	CELPA?	-	-	-	90?	-	-
1966-S437	2439350.50	1966 Aug 13	Orion-2	-	No. 1	-	-	-	-	CELPA	-	-	-	114	-	-
1966-S468	2439368.50	1966 Sep	Orion-2	-	No. 4	-	-	-	-	CELPA?	-	-	-	90?	-	-
1966-S582	2439433.50	1966 Nov 4	Orion-2	-	-	-	-	-	-	WI	-	-	-	90?	-	-
1966-A136	2439436.50	1966 Nov 7	Orion-2	-	-	-	-	-	-	WI	-	-	-	1?	-	-
1966-S591	2439439.24	1966 Nov 9 1743	Orion-2	-	-	-	-	-	-	WI	-	-	-	82	-	-
1966-S597	2439441.50	1966 Nov 12	Orion-2	-	-	-	-	-	-	TART	-	-	-	90?	-	-
1966-S598	2439441.50	1966 Nov 12	Orion-2	-	-	-	-	-	-	TART	-	-	-	90?	-	-
1966-S599	2439441.50	1966 Nov 12	Orion-2	-	-	-	-	-	-	TART	-	-	-	90?	-	-
1967-S624	2439629.50	1967 May 19	Orion-2	-	BIO-1	Rat payload	-	-	-	CELPA	-	-	-	90?	-	-
1967-S420	2439740.44	1967 Sep 6 2235	Orion-2	-	AER 1/67	-	-	-	-	CELPA	-	-	-	90?	-	-
1967-S422	2439740.75	1967 Sep 7 0605	Orion-2	-	AER 1/67-2	-	-	-	-	CELPA	-	-	-	90?	-	-
1967-S423	2439740.91	1967 Sep 7 0950	Orion-2	-	AER 1/67-3	-	-	-	-	CELPA	-	-	-	90?	-	-
1967-A145	2439839.46	1967 Dec 14 2300	Orion-2	-	Rad 1/67	-	-	-	-	CELPA	-	-	-	35	-	-
1967-M21	2439841.12	1967 Dec 16 1458	Orion-2	-	Rad 2/67	-	-	-	-	CELPA	-	-	-	70	-	-
1968-S99	2439879.98	1968 Jan 24 1130	Orion-2	-	Rad 2/68	-	-	-	-	CELAT	-	-	-	90	-	-
1968-W298	2440188.16	1968 Nov 27 1550	Orion-2	?	EXAMETNET C49	Chaff	-	-	-	CELAT	-	-	-	56	-	-
1969-S346	2440369.50	1969 May 28	Orion-2	-	No. 26	-	-	-	-	CELPA?	-	-	-	90?	-	-
1969-S470	2440463.50	1969 Aug 30	Orion-2	-	No. 31	-	-	-	-	CELPA?	-	-	-	90?	-	-
1969-S471	2440464.23	1969 Aug 30 1730	Orion-2	-	No. 27	-	-	-	-	CELPA?	-	-	-	15	-	-
1970-S341	2440710.03	1970 May 3 1245	Orion-2	-	-	-	-	-	-	CELAT	-	-	-	90	-	-
1971-S615	2441305.48	1971 Dec 19 2333	Orion-2	-	Campus	-	-	-	-	CELPA	-	-	-	106	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S522	2439053.50	1965 Oct 20	Orion-1	-	No. 1	0.000	CNIE	SS	-	CNIE/	Test	DeLeon	Serra	-
1966-S700	2439264.50	1966 May 19	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Test	historia.mforos.com	-	dubious?
1966-S348	2439306.50	1966 Jul	Orion-1	-	No. 8	0.000	CNIE	SS	-	CNIE/	Test	Serra	DeLeon	-
1966-S437	2439350.50	1966 Aug 13	Orion-2	-	No. 1	0.000	CNIE	SS	-	CNIE/	Test	Serra	-	-
1966-S468	2439368.50	1966 Sep	Orion-2	-	No. 4	0.000	CNIE	SS	-	CNIE/	Test	Serra	-	-
1966-S582	2439433.50	1966 Nov 4	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Test	SP-4401	-	-
1966-A136	2439436.50	1966 Nov 7	Orion-2	-	-	0.000	CNIE	SF	U	CNIE/	Test	SP-4401	SP-4007	-
1966-S591	2439439.24	1966 Nov 9 1743	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Test	MR661121-08	SP-4401	-
1966-S597	2439441.50	1966 Nov 12	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Eclipse	Alway	-	-
1966-S598	2439441.50	1966 Nov 12	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Eclipse	Alway	-	-
1966-S599	2439441.50	1966 Nov 12	Orion-2	-	-	0.000	CNIE	SS	-	CNIE/	Eclipse	Alway	-	-
1967-S624	2439629.50	1967 May 19	Orion-2	-	BIO-1	0.000	IIAE	SS	-	IIAE/	Bio	AASH30-9	-	-
1967-S420	2439740.44	1967 Sep 6 2235	Orion-2	-	AER 1/67	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1967-S422	2439740.75	1967 Sep 7 0605	Orion-2	-	AER 1/67-2	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1967-S423	2439740.91	1967 Sep 7 0950	Orion-2	-	AER 1/67-3	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1967-A145	2439839.46	1967 Dec 14 2300	Orion-2	-	Rad 1/67	0.000	CNIE	SS	-	IAFE/Ghielmetti	XR Astron	WDCRF	-	-
1967-M21	2439841.12	1967 Dec 16 1458	Orion-2	-	Rad 2/67	0.000	CNIE	SS	-	IAFE/Ghielmetti	XR Astron	WDCRF	-	-
1968-S99	2439879.98	1968 Jan 24 1130	Orion-2	-	Rad 2/68	0.000	CNIE	SS	-	TUC/Santiochi	CR	WDCRF	-	-
1968-W298	2440188.16	1968 Nov 27 1550	Orion-2	?	EXAMETNET C49	0.000	CONAE/NASA	SU	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1969-S346	2440369.50	1969 May 28	Orion-2	-	No. 26	0.000	CNIE	SS	-	CNIE/	Bio	Serra/COSPAR	-	-
1969-S470	2440463.50	1969 Aug 30	Orion-2	-	No. 31	0.000	CNIE	SS	-	CNIE/	XR Astron	Serra/COSPAR	-	-
1969-S471	2440464.23	1969 Aug 30 1730	Orion-2	-	No. 27	0.000	CNIE	SS	-	CNIE/	Bio	DeLeon	Serra/COSPAR	-
1970-S341	2440710.03	1970 May 3 1245	Orion-2	-	-	0.000	CNIE	SS	-	TUC/Santochi	CR/Fields	WDCRF	-	-
1971-S615	2441305.48	1971 Dec 19 2333	Orion-2	-	Campus	0.000	CNIE	SS	-	CNIE/	Test	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-S137	2445862.96	1984 Jun 11 1104	INTA-100	-	INTA MZ-8401	Test	Zorzal-1 (Maqueta)	-	-	ELAR	-	-	-	1?	-	-
1984-S138	2445863.96	1984 Jun 12 1103	INTA-100	-	INTA MZ-8402	Test	Zorzal-2 (Maqueta)	-	-	ELAR	-	-	-	1?	-	-
1984-S139	2445864.96	1984 Jun 13 1104	INTA-100	-	INTA RP-8401	Test (Ballast)	Rocio-1	-	-	ELAR	-	-	-	45	-	-
1985-S149	2446151.99	1985 Mar 27 1146	INTA-100	-	INTA RP-8501	Test (Ballast)	Rocio-2	-	-	ELAR	-	-	-	33	-	-
1985-S150	2446234.99	1985 Jun 18 1149	INTA-100	-	INTA RP-8502	Test (Ballast)	Rocio-3	-	-	ELAR	-	-	-	1?	-	-
1985-S151	2446240.96	1985 Jun 24 1101	INTA-100	-	INTA RP-8503	Test (Ballast)	Rocio-4	-	-	ELAR	-	-	-	74	-	-
1985-S271	2446383.01	1985 Nov 13 1217	INTA-100	-	INTA RP-8504	Test (Ballast)	Rocio-5	-	-	ELAR	-	-	-	110	-	-
1985-S272	2446384.97	1985 Nov 15 1123	INTA-100	-	INTA RP-8505	Chaff	Rocio-6	-	-	ELAR	-	-	-	50?	-	-
1990-S175	2448181.98	1990 Oct 17 1133	INTA-100	-	INTA MZ-9001	Test	M0	-	-	ELAR	-	-	-	1?	-	-
1990-S176	2448186.03	1990 Oct 21 1242	INTA-100	-	INTA MZ-9002	Test	M1	-	-	ELAR	-	-	-	4	-	-
1990-S177	2448187.00	1990 Oct 22 1158	INTA-100	-	INTA MZ-9003	Test	M2	-	-	ELAR	-	-	-	4	-	-
1991-S186	2448275.01	1991 Jan 18 1213	INTA-100	-	INTA RP-9101	Test	Rocio-7	-	-	ELAR	-	-	-	118	-	-
1991-S187	2448275.08	1991 Jan 18 1400	INTA-100	-	INTA RP-9102	Meteo	Rocio-8	-	-	ELAR	-	-	-	22	-	-
1991-S188	2448544.01	1991 Oct 14 1215	INTA-100	-	INTA RP-9103	Test	Rocio-9	-	-	ELAR	-	-	-	100?	-	-
1991-S215	2448545.02	1991 Oct 15 1230	INTA-100	-	INTA RP-9104	Test	Rocio-10	-	-	ELAR	-	-	-	73	-	-
1992-S106	2448719.93	1992 Apr 7 1025	INTA-100	-	INTA RP-9201	Tech Payload	Rocio-11	-	-	ELAR	-	-	-	100?	-	-
1992-S107	2448721.00	1992 Apr 8 1201	INTA-100	-	INTA RP-9202	Tech Payload	Rocio-12	-	-	ELAR	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-S137	2445862.96	1984 Jun 11 1104	INTA-100	-	INTA MZ-8401	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1984-S138	2445863.96	1984 Jun 12 1103	INTA-100	-	INTA MZ-8402	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1984-S139	2445864.96	1984 Jun 13 1104	INTA-100	-	INTA RP-8401	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1985-S149	2446151.99	1985 Mar 27 1146	INTA-100	-	INTA RP-8501	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1985-S150	2446234.99	1985 Jun 18 1149	INTA-100	-	INTA RP-8502	0.000	INTA	SF	U	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1985-S151	2446240.96	1985 Jun 24 1101	INTA-100	-	INTA RP-8503	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1985-S271	2446383.01	1985 Nov 13 1217	INTA-100	-	INTA RP-8504	0.000	INTA	SS	-	INTA/	Test	ElAren	CohetesINTA	-
1985-S272	2446384.97	1985 Nov 15 1123	INTA-100	-	INTA RP-8505	0.000	INTA	SS	-	INTA/	Aeron	ElAren	CohetesINTA	-
1990-S175	2448181.98	1990 Oct 17 1133	INTA-100	-	INTA MZ-9001	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1990-S176	2448186.03	1990 Oct 21 1242	INTA-100	-	INTA MZ-9002	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	CohetesINTA: Nov
1990-S177	2448187.00	1990 Oct 22 1158	INTA-100	-	INTA MZ-9003	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	CohetesINTA: Nov
1991-S186	2448275.01	1991 Jan 18 1213	INTA-100	-	INTA RP-9101	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1991-S187	2448275.08	1991 Jan 18 1400	INTA-100	-	INTA RP-9102	0.000	INTA	SF	U	INTA/	Aeron	ElAren	IAC-06-E4.4-05	-
1991-S188	2448544.01	1991 Oct 14 1215	INTA-100	-	INTA RP-9103	0.000	INTA	SS	-	INTA/	Test	ElAren	IAC-06-E4.4-05	-
1991-S215	2448545.02	1991 Oct 15 1230	INTA-100	-	INTA RP-9104	0.000	INTA	SS	-	INTA/	Test	ElAren	CohetesINTA	-
1992-S106	2448719.93	1992 Apr 7 1025	INTA-100	-	INTA RP-9201	0.000	INTA	SS	-	INTA/	Tech	ElAren	CohetesINTA	-
1992-S107	2448721.00	1992 Apr 8 1201	INTA-100	-	INTA RP-9202	0.000	INTA	SS	-	INTA/	Tech	ElAren	CohetesINTA	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-A252	2458304.56	2018 Jul 5 0130	ISRO-CES	-	-	Pad Abort Test	Gaganyaan boilerplate	-	-	SDSC	-	-	-	3	3	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-A252	2458304.56	2018 Jul 5 0130	ISRO-CES	-	-	0.000	ISRO	AS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-A17	2460238.69	2023 Oct 21 0430	ISRO TV	-	TV-D1	Gaganyaan Test	CES/CM	-	-	SHAR	FLP	-	-	17	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-A17	2460238.69	2023 Oct 21 0430	ISRO TV	-	TV-D1	0.000	ISRO	AS	-	ISRO/	Test	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A127	2442888.50	1976 Apr 20	FTV	-	-	FTV-MK I-01	-	-	-	SHAR	RH	-	-	10?	-	-
1976-A128	2442904.50	1976 May 6	FTV	-	-	FTV-MK I-02	-	-	-	SHAR	RH	-	-	10?	-	-
1976-A129	2443129.50	1976 Dec 17	SEGPRO	-	-	SEGPRO-01	-	-	-	SHAR	RH	-	-	10?	-	-
1977-A59	2443255.50	1977 Apr 22	FTV	-	-	FTV-MK II	-	-	-	SHAR	RH	-	-	10?	-	-
1977-A60	2443331.50	1977 Jul 7	SEGPRO	-	-	SEGPRO-02	-	-	-	SHAR	RH	-	-	10?	-	-
1977-A61	2443375.50	1977 Aug 20	FTV	-	-	FTV-MK II	-	-	-	SHAR	RH	-	-	10?	-	-
1984-A42	2445877.50	1984 Jun 26	FTV	-	-	SS-45	-	-	-	SHAR	RH	-	-	10?	-	-
1985-A22	2446416.50	1985 Dec 17	FTV	-	-	PTA 1	-	-	-	SHAR	RH	-	-	10?	-	-
1986-A16	2446443.50	1986 Jan 13	FTV	-	-	PTA 2	-	-	-	SHAR	RH	-	-	10?	-	-
1986-A17	2446510.50	1986 Mar 21	FTV	-	-	PTA 3	-	-	-	SHAR	RH	-	-	10?	-	-
1986-A18	2446565.50	1986 May 15	FTV	-	-	T2	-	-	-	SHAR	RH	-	-	10?	-	-
1986-A19	2446634.50	1986 Jul 23	FTV	-	-	PTA 4	-	-	-	SHAR	RH	-	-	10?	-	-
1986-A20	2446702.50	1986 Sep 29	FTV	-	-	T3	-	-	-	SHAR	RH	-	-	10?	-	-
1987-A31	2446831.50	1987 Feb 5	FTV	-	-	PTA 5	-	-	-	SHAR	RH	-	-	10?	-	-
1987-A32	2447061.50	1987 Sep 23	FTV	-	-	PTA 6 (PTA-08)	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A86	2447189.50	1988 Jan 29	FTV	-	-	PTA 7	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A87	2447203.50	1988 Feb 12	FTV	-	-	PTA 8	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A88	2447216.50	1988 Feb 25	FTV	-	-	P01	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A89	2447231.50	1988 Mar 11	FTV	-	-	FTV-07	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A90	2447234.50	1988 Mar 14	FTV	-	-	FTV-08	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A91	2447398.50	1988 Aug 25	FTV	-	-	PTA 9	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A92	2447405.50	1988 Sep 1	FTV	-	-	PTA 10	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A93	2447411.50	1988 Sep 7	FTV	-	-	PTA 11	-	-	-	SHAR	RH	-	-	10?	-	-
1988-A94	2447516.50	1988 Dec 21	FTV	-	-	PTA 12	-	-	-	SHAR	RH	-	-	10?	-	-
1989-A18	2447601.50	1989 Mar 16	FTV	-	-	PTA 13	-	-	-	SHAR	RH	-	-	10?	-	-
1989-A19	2447605.50	1989 Mar 20	FTV	-	-	PTA 14	-	-	-	SHAR	RH	-	-	10?	-	-
1989-A20	2447796.50	1989 Sep 27	FTV	-	-	P02	-	-	-	SHAR	RH	-	-	10?	-	-
1989-A21	2447832.50	1989 Nov 2	FTV	-	-	PTA 15	-	-	-	SHAR	RH	-	-	10?	-	-
1991-A09	2448298.50	1991 Feb 11	FTV	-	-	P05	-	-	-	SHAR	RH	-	-	10?	-	-
1991-A10	2448441.50	1991 Jul 4	FTV	-	-	P04	-	-	-	SHAR	RH	-	-	10?	-	-
1991-A11	2448475.50	1991 Aug 7	FTV	-	-	P06	-	-	-	SHAR	RH	-	-	10?	-	-
1992-A20	2448665.50	1992 Feb 13	FTV	-	-	P08	-	-	-	SHAR	RH	-	-	10?	-	-
1993-A19	2449150.50	1993 Jun 12	FTV	-	-	P14	-	-	-	SHAR	RH	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A127	2442888.50	1976 Apr 20	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1976-A128	2442904.50	1976 May 6	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1976-A129	2443129.50	1976 Dec 17	SEGPRO	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1977-A59	2443255.50	1977 Apr 22	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1977-A60	2443331.50	1977 Jul 7	SEGPRO	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1977-A61	2443375.50	1977 Aug 20	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1984-A42	2445877.50	1984 Jun 26	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1985-A22	2446416.50	1985 Dec 17	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1986-A16	2446443.50	1986 Jan 13	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1986-A17	2446510.50	1986 Mar 21	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1986-A18	2446565.50	1986 May 15	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1986-A19	2446634.50	1986 Jul 23	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1986-A20	2446702.50	1986 Sep 29	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1987-A31	2446831.50	1987 Feb 5	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1987-A32	2447061.50	1987 Sep 23	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A86	2447189.50	1988 Jan 29	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A87	2447203.50	1988 Feb 12	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A88	2447216.50	1988 Feb 25	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A89	2447231.50	1988 Mar 11	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A90	2447234.50	1988 Mar 14	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A91	2447398.50	1988 Aug 25	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A92	2447405.50	1988 Sep 1	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A93	2447411.50	1988 Sep 7	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1988-A94	2447516.50	1988 Dec 21	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1989-A18	2447601.50	1989 Mar 16	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1989-A19	2447605.50	1989 Mar 20	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1989-A20	2447796.50	1989 Sep 27	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1989-A21	2447832.50	1989 Nov 2	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1991-A09	2448298.50	1991 Feb 11	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1991-A10	2448441.50	1991 Jul 4	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1991-A11	2448475.50	1991 Aug 7	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1992-A20	2448665.50	1992 Feb 13	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-
1993-A19	2449150.50	1993 Jun 12	FTV	-	-	0.000	ISRO	SU	-	-	Test	SDSC-SR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-M01	2454181.93	2007 Mar 22 1015	Icarus	-	1	ERAU/Icarus	-	-	-	WI	-	-	-	60	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-M01	2454181.93	2007 Mar 22 1015	Icarus	-	1	0.000	ERAU	SS	-	ERAU/	Test	wff.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-A09	2448064.50	1990 Jun 22	Iraqi Gun Projectile	-	-	-	-	-	-	JHIM	G350	-	-	34	-	-
1990-A10	2448088.50	1990 Jul 16	Iraqi Gun Projectile	-	-	-	-	-	-	JHIM	G350	-	-	33	-	-
1990-M17	2448158.50	1990 Sep 24	Iraqi Gun Projectile	-	-	-	-	-	-	JHIM	G350	-	-	62	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-A09	2448064.50	1990 Jun 22	Iraqi Gun Projectile	-	-	0.000	IQMIC	SS	-	SRCI/	Test	UNMOVIC	-	-
1990-A10	2448088.50	1990 Jul 16	Iraqi Gun Projectile	-	-	0.000	IQMIC	SS	-	SRCI/	Test	UNMOVIC	-	-
1990-M17	2448158.50	1990 Sep 24	Iraqi Gun Projectile	-	-	0.000	IQMIC	SS	-	SRCI/	Test	UNMOVIC	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S190	2437138.00	1960 Jul 22 1205	Iris	-	NASA 5.01GT	-	-	-	-	WI	LA1	-	-	224	-	-
1960-S328	2437226.10	1960 Oct 18 1417	Iris	-	NASA 5.02GT	-	-	-	-	WI	LA1	-	-	225	-	-
1961-S23	2437319.03	1961 Jan 19 1242	Iris	-	NASA 5.03GT	-	-	-	-	WI	LA1	-	-	138	-	-
1961-A266	2437602.50	1961 Oct 30	Iris	-	3-Fin Test	Dummy Iris	-	-	-	EGL	-	-	-	1?	-	-
1962-S123	2437788.25	1962 May 3 1803	Iris	-	NASA 5.04GA	Structure	-	-	-	WI	LA1	-	-	113	-	-
1964-S416	2438617.50	1964 Aug 10	Hydra-Iris	-	GSP-1	LRL GSP-1	-	-	T-AGM-8	WTR	HLP1	-	-	200?	-	-
1965-A07	2438767.50	1965 Jan 7	Hydra-Iris	-	SAP-1	LRL SAP-1	-	-	T-AGM-8	USN65A	LP1	-	-	2	-	-
1965-S49	2438786.90	1965 Jan 26 0940:26	Hydra-Iris	-	SAP-2	LRL SAP-2 (SAA)	-	-	T-AGM-8	USN65A	LP2	-	-	289	-	-
1965-S582	2439062.25	1965 Oct 28 1801:50	Hydra-Iris	-	BOX-2	LRL BOX-2	-	-	T-AGM-8	HYD	LP1	-	-	194	-	-
1966-S294	2439277.22	1966 May 31 1716	Hydra-Iris	-	BOX-4	LRL BOX-4	-	-	T-AGM-8	HYDS	LP2	-	-	188	-	-
1966-A126	2439429.24	1966 Oct 30 1745	Hydra-Iris	-	BOX-5	LRL BOX-5/FL-B	-	-	T-AGM-8	HYD	LP2	-	-	12	-	-
1968-S196	2439936.33	1968 Mar 20 1955:05	Hydra-Iris	-	BAR-1	LRL BAR-1/FL-B	-	-	AVM1	HYD	LP3	-	-	195	-	-
1968-S567	2440164.25	1968 Nov 3 1800	Hydra-Iris	-	BOX-15	LRL BOX-15	-	-	T-AGM-8	HYD	LP4	-	-	227	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S190	2437138.00	1960 Jul 22 1205	Iris	-	NASA 5.01GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Aeronomy/Test	WDCRF	-	-
1960-S328	2437226.10	1960 Oct 18 1417	Iris	-	NASA 5.02GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Aeronomy/Test	WDCRF	-	-
1961-S23	2437319.03	1961 Jan 19 1242	Iris	-	NASA 5.03GT	0.000	GSFC	SF	U	GSFC/Sorgnit	Aeronomy/Test	WDCRF	-	-
1961-A266	2437602.50	1961 Oct 30	Iris	-	3-Fin Test	0.000	AFCRL	AS	-	AFCRL/	Test	AD273758	-	-
1962-S123	2437788.25	1962 May 3 1803	Iris	-	NASA 5.04GA	0.000	GSFC	SS	-	GSFC/Taylor	Aeronomy	WDCRF	-	-
1964-S416	2438617.50	1964 Aug 10	Hydra-Iris	-	GSP-1	0.000	NMC	SS	-	LRL/	Magnetospheric	UCRL-50587	-	-
1965-A07	2438767.50	1965 Jan 7	Hydra-Iris	-	SAP-1	0.000	NMC	SF	U	LRL/	Ionos/Mag	UCRL-50587	-	-
1965-S49	2438786.90	1965 Jan 26 0940:26	Hydra-Iris	-	SAP-2	0.000	NMC	SS	-	NMC/Herron	Ionos/Mag	SR6,132	MR650208-08	-
1965-S582	2439062.25	1965 Oct 28 1801:50	Hydra-Iris	-	BOX-2	0.000	NMC	SS	-	LRL/Grader	XR Astron	FDS	UCRL-50587	-
1966-S294	2439277.22	1966 May 31 1716	Hydra-Iris	-	BOX-4	0.000	NMC	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1966-A126	2439429.24	1966 Oct 30 1745	Hydra-Iris	-	BOX-5	0.000	NMC	SF	U	LRL/	XR Astron	FDS	UCRL-50587	-
1968-S196	2439936.33	1968 Mar 20 1955:05	Hydra-Iris	-	BAR-1	0.000	NMC	SS	-	LRL/NMC/	Test	FDS	UCRL-50587	-
1968-S567	2440164.25	1968 Nov 3 1800	Hydra-Iris	-	BOX-15	0.000	NMC	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1946-A01	2431898.50	1946 Mar 19	Ivanov	-	-	-	-	-	-	GTsP-4?	-	-	-	1?	-	-
1946-A05	2431971.50	1946 Jun	Ivanov	-	-	-	-	-	-	GTsP-4?	-	-	-	0	-	-
1946-A06	2431971.50	1946 Jun	Ivanov	-	-	-	-	-	-	GTsP-4?	-	-	-	0	-	-
1946-A07	2431971.50	1946 Jun	Ivanov	-	-	-	-	-	-	GTsP-4?	-	-	-	35?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1946-A01	2431898.50	1946 Mar 19	Ivanov	-	-	0.000	FIAN	SF	U	RNII/	Test	AASH7-2-65	-	-
1946-A05	2431971.50	1946 Jun	Ivanov	-	-	0.000	FIAN	SF	U	RNII/	Test	AASH7-2-65	-	-
1946-A06	2431971.50	1946 Jun	Ivanov	-	-	0.000	FIAN	SF	U	RNII/	Test	AASH7-2-65	-	-
1946-A07	2431971.50	1946 Jun	Ivanov	-	-	0.000	FIAN	SS	-	RNII/	Test	AASH7-2-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S501	2440479.57	1969 Sep 15 0140	JCR	-	JCR-1	-	-	-	-	TNSC	T	-	-	140?	-	-
1969-S504	2440480.78	1969 Sep 16 0640	JCR	-	JCR-2	-	-	-	-	TNSC	T	-	-	140?	-	-
1970-S92	2440618.54	1970 Feb 1 0100	JCR	-	JCR-3	-	-	-	-	TNSC	T	-	-	140	-	-
1970-S98	2440833.50	1970 Sep 4	JCR	-	JCR-4	-	-	-	-	TNSC	T	-	-	19	-	-
1971-S107	2440983.56	1971 Feb 1 0130	JCR	-	JCR-5	-	-	-	-	TNSC	T	-	-	150	-	-
1971-S450	2441211.78	1971 Sep 17 0640	JCR	-	JCR-6	-	-	-	-	TNSC	T	-	-	133	-	-
1972-S67	2441353.77	1972 Feb 6 0635	JCR	-	JCR-7	-	-	-	-	TNSC	T	-	-	145	-	-
1973-S62	2441720.58	1973 Feb 7 0150	JCR	-	JCR-8	-	-	-	-	TNSC	T	-	-	135	-	-
1973-S299	2441932.57	1973 Sep 7 0140	JCR	-	JCR-9	-	-	-	-	TNSC	T	-	-	125	-	-
1974-S85	2442079.77	1974 Feb 1 0630	JCR	-	JCR-10	-	-	-	-	TNSC	T	-	-	120	-	-
1977-S48	2443168.56	1977 Jan 25 0130	TT-500	-	TT-500-1F	-	-	-	-	TNSC	T	-	-	75	-	-
1977-S235	2443380.56	1977 Aug 25 0130	TT-500	-	TT-500-2F	-	-	-	-	TNSC	T	-	-	230	-	-
1978-S46	2443524.56	1978 Jan 16 0130	TT-500	-	TT-500-3F	-	-	-	-	TNSC	T	-	-	300?	-	-
1978-S200	2443745.56	1978 Aug 25 0130	TT-500	-	TT-500-4F	-	-	-	-	TNSC	T	-	-	300?	-	-
1979-S46	2443900.56	1979 Jan 27 0130	TT-500	-	TT-500-5F	-	-	-	-	TNSC	T	-	-	300?	-	-
1979-S193	2444110.57	1979 Aug 25 0140	TT-500	-	TT-500-6F	-	-	-	-	TNSC	T	-	-	300?	-	-
1980-S31	2444266.56	1980 Jan 28 0130	TT-500	-	TT-500-7F	-	-	-	-	TNSC	T	-	-	300?	-	-
1980-S168	2444496.42	1980 Sep 13 2200	TT-500A	-	TT-500A-8F	-	-	-	-	TNSC	T	-	-	320?	-	-
1981-S50	2444619.42	1981 Jan 14 2200	TT-500A	-	TT-500A-9F	-	-	-	-	TNSC	T	-	-	320?	-	-
1981-S137	2444818.42	1981 Aug 1 2200	TT-500A	-	TT-500A-10F	-	-	-	-	TNSC	T	-	-	320?	-	-
1982-S157	2445197.47	1982 Aug 15 2315	TT-500A	-	TT-500A-11F	-	-	-	-	TNSC	T	-	-	320?	-	-
1983-S51	2445361.46	1983 Jan 26 2300	TT-500A	-	TT-500A-12F	-	-	-	-	TNSC	T	-	-	320?	-	-
1983-S148	2445565.46	1983 Aug 18 2300	TT-500A	-	TT-500A-13F	-	-	-	-	TNSC	T	-	-	320?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S501	2440479.57	1969 Sep 15 0140	JCR	-	JCR-1	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1969-S504	2440480.78	1969 Sep 16 0640	JCR	-	JCR-2	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1970-S92	2440618.54	1970 Feb 1 0100	JCR	-	JCR-3	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1970-S98	2440833.50	1970 Sep 4	JCR	-	JCR-4	0.000	NASDA	SF	U	NASDA/	Test	SFLT18-399	-	-
1971-S107	2440983.56	1971 Feb 1 0130	JCR	-	JCR-5	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1971-S450	2441211.78	1971 Sep 17 0640	JCR	-	JCR-6	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1972-S67	2441353.77	1972 Feb 6 0635	JCR	-	JCR-7	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1973-S62	2441720.58	1973 Feb 7 0150	JCR	-	JCR-8	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1973-S299	2441932.57	1973 Sep 7 0140	JCR	-	JCR-9	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1974-S85	2442079.77	1974 Feb 1 0630	JCR	-	JCR-10	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT18-399	-
1977-S48	2443168.56	1977 Jan 25 0130	TT-500	-	TT-500-1F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1977-S235	2443380.56	1977 Aug 25 0130	TT-500	-	TT-500-2F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	Or 1330? (FDC)
1978-S46	2443524.56	1978 Jan 16 0130	TT-500	-	TT-500-3F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1978-S200	2443745.56	1978 Aug 25 0130	TT-500	-	TT-500-4F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1979-S46	2443900.56	1979 Jan 27 0130	TT-500	-	TT-500-5F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1979-S193	2444110.57	1979 Aug 25 0140	TT-500	-	TT-500-6F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1980-S31	2444266.56	1980 Jan 28 0130	TT-500	-	TT-500-7F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1980-S168	2444496.42	1980 Sep 13 2200	TT-500A	-	TT-500A-8F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT23.255	-
1981-S50	2444619.42	1981 Jan 14 2200	TT-500A	-	TT-500A-9F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT23,255	-
1981-S137	2444818.42	1981 Aug 1 2200	TT-500A	-	TT-500A-10F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1982-S157	2445197.47	1982 Aug 15 2315	TT-500A	-	TT-500A-11F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1983-S51	2445361.46	1983 Jan 26 2300	TT-500A	-	TT-500A-12F	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	-	-
1983-S148	2445565.46	1983 Aug 18 2300	TT-500A	-	TT-500A-13F	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-052	2458712.67	2019 Aug 17 0411	Jielong-1	-	Y1	QS1-01	-	-	-	JQ	-	-	-	561	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-052	2458712.67	2019 Aug 17 0411	Jielong-1	-	Y1	0.093	CZHJ	OS	-	G	Sat SSO D	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	Launch FlightCode	Launch Platform	Launch Launch_Site	Launch Launch_Pad	Launch Ascent_Site	Launch Ascent_Pad	Launch Apogee km	Launch Range km	Launch Dest
1964-M153	2438557.50	1964 Jun 11	Javelin 3	-	-	Test	-	-	-	WS	-	-	-	68	-	-
1965-S01	2438760.50	1965	Javelin 3	-	-	Test	-	-	-	WS?	-	-	-	80?	-	-
1968-S172	2439926.50	1968 Mar 11	Javelin 3	-	-	Triple launch test	-	-	-	WS	-	-	-	80?	-	-
1968-S173	2439926.50	1968 Mar 11	Javelin 3	-	-	Triple launch test	-	-	-	WS	-	-	-	80?	-	-
1968-S174	2439926.50	1968 Mar 11	Javelin 3	-	-	Triple launch test	-	-	-	WS	-	-	-	80?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-M153	2438557.50	1964 Jun 11	Javelin 3	-	-	0.000	SAND	SS	-	SAND/	Test	Ulrich/AP	-	-
1965-S01	2438760.50	1965	Javelin 3	-	-	0.000	SAND	SS	-	SAND/	Test	ROTW2004	-	-
1968-S172	2439926.50	1968 Mar 11	Javelin 3	-	-	0.000	SAND	SS	-	SAND/	Test	ROTW2004	-	-
1968-S173	2439926.50	1968 Mar 11	Javelin 3	-	-	0.000	SAND	SS	-	SAND/	Test	ROTW2004	-	-
1968-S174	2439926.50	1968 Mar 11	Javelin 3	-	-	0.000	SAND	SS	-	SAND/	Test	ROTW2004	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S80	2446915.50	1987 May	Jericho II	-	-	-	-	-	-	PALB	-	-	-	300?	-	-
1988-S148	2447160.50	1988 Jan	Jericho II	-	-	-	-	-	-	PALB	-	-	-	300?	-	-
1988-087	2447423.90	1988 Sep 19 0931	Shavit	-	1	'Ofeq-1	'Ofeq-1	-	-	PALB	-	-	-	1158	-	-
1989-S68	2447712.50	1989 Jul 5	RSA-3	-	2	-	-	-	-	OTB	-	-	-	300?	-	-
1989-S92	2447783.50	1989 Sep 14	Jericho II	-	-	-	-	-	-	PALB	-	-	-	300?	-	-
1990-027	2447985.00	1990 Apr 3 1202	Shavit	-	2	'Ofeq-2	'Ofeq-2	-	-	PALB	-	-	-	1586	-	-
1990-A04	2448112.50	1990 Aug 9	Arrow 1	-	1	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	0?	-	-
1990-S154	2448214.50	1990 Nov 19?	RSA-3	-	3	-	-	-	-	OTB	-	-	-	300?	-	-
1991-A02	2448340.50	1991 Mar 25	Arrow 1	-	2	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1991-A06	2448559.50	1991 Oct 30	Arrow 1	-	3	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1992-A13	2448888.50	1992 Sep 23	Arrow 1	-	4	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1993-A04	2449046.50	1993 Feb 28	Arrow 1	-	5a	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1993-A05	2449046.50	1993 Feb 28	Arrow 1	-	5b	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1993-A08	2449182.50	1993 Jul 14	Arrow 1	-	6	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1993-A15	2449274.50	1993 Oct 14	Arrow 1	-	7a	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1993-A16	2449274.50	1993 Oct 14	Arrow 1	-	7b	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1994-A04	2449411.50	1994 Mar	Arrow 1	-	8	-	[Not launched?]	-	SHIP-ISR	PALB	IAFTR	-	-	0?	-	-
1994-A05	2449515.50	1994 Jun 12	Arrow 1	-	9	ATD-1	-	-	SHIP-ISR	PALB	IAFTR	-	-	20?	-	-
1994-S65	2449610.50	1994 Sep 15	Jericho II	?	3?	'Ofeq?	-	-	-	PALB	-	-	-	300?	-	-
1995-018	2449812.97	1995 Apr 5 1116	Shavit 1	-	3	'Ofeq-3	'Ofeq-3	-	-	PALB	-	-	-	731	-	-
1996-M03	2450315.50	1996 Aug 20	Arrow 1	-	-	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	80?	-	-
1997-M02	2450679.85	1997 Aug 19 0820?	Arrow 1	-	-	-	-	-	SHIP-ISR	PALB	IAFTR	-	-	80?	-	-
1998-F01	2450836.04	1998 Jan 22 1256	Shavit 1	-	4	'Ofeq-4	EROS A	-	-	PALB	-	-	-	150?	-	-
1999-M03	2451483.90	1999 Nov 1 0942	Arrow 1	-	TM-91C	Target	-	-	SHIP-ISR	PALB	IAFTR	-	-	80?	-	-
2001-S31	2452087.50	2001 Jun 27	Jericho II	-	-	-	-	-	-	PALB	-	-	-	100?	-	-
2002-025	2452423.14	2002 May 28 1525	Shavit 1	-	5	'Ofeq-5	'Ofeq-5	-	-	PALB	-	-	-	774	-	-
2004-F01	2453254.95	2004 Sep 6 1053	Shavit 1	-	6	'Ofeq-6	'Ofeq-6	-	-	PALB	-	-	-	260?	-	-
2007-025	2454262.49	2007 Jun 10 2340	Shavit 2	-	7	'Ofeq-7	'Ofeq-7	-	-	PALB	-	-	-	584	-	-
2008-S02	2454482.78	2008 Jan 17 0645	Jericho III	-	M1	-	-	-	-	PALB	-	-	-	300?	-	-
2010-031	2455370.29	2010 Jun 22 1900?	Shavit 2	-	8	'Ofeq-9	'Ofeq-9	-	-	PALB	-	-	-	638	-	-
2011-S51	2455867.83	2011 Nov 2 0750	Jericho III	-	-	-	-	-	-	PALB	-	-	-	300?	-	-
2013-S52	2456485.50	2013 Jul 12	Jericho III	-	-	-	-	-	-	PALB	-	-	-	300?	-	-
2014-019	2456757.30	2014 Apr 9 1906:02?	Shavit 2	-	9	'Ofeq-10	'Ofeq-10	-	-	PALB	-	-	-	614	-	-
2016-056	2457645.11	2016 Sep 13 1438	Shavit 2	-	10	'Ofeq-11	'Ofeq-11	-	-	PALB	-	-	-	601	-	-
2020-044	2459036.54	2020 Jul 6 0100	Shavit 2	-	11	'Ofeq-16	'Ofeq-16	-	-	PALB	-	-	-	608	-	-
2023-044	2460032.47	2023 Mar 28 2310	Shavit 2	-	12	'Ofeq-13	'Ofeq-13	-	-	PALB	-	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S80	2446915.50	1987 May	Jericho II	-	-	0.000	IDF	MS	-	-	Test	NYT870722	-	-
1988-S148	2447160.50	1988 Jan	Jericho II	-	-	0.000	IDF	MS	-	-	Test	ChicagoDlyHer890915	-	-
1988-087	2447423.90	1988 Sep 19 0931	Shavit	-	1	0.156	ISA	OS	-	G	Sat LEO O	TalInbar	SFLT89-2-45	-
1989-S68	2447712.50	1989 Jul 5	RSA-3	-	2	0.000	HOUW/SAAF	MS	-	-	Test	JSD97	-	-
1989-S92	2447783.50	1989 Sep 14	Jericho II	-	-	0.000	IDF	MS	-	-	Test	ChicagoDlyHer890915	-	-
1990-027	2447985.00	1990 Apr 3 1202	Shavit	-	2	0.160	ISA	OS	-	G	Sat LEO O	SN900409	-	-
1990-A04	2448112.50	1990 Aug 9	Arrow 1	-	1	0.000	IAI	MF	U	-	Test	AWST931025-30	-	-
1990-S154	2448214.50	1990 Nov 19?	RSA-3	-	3	0.000	HOUW/SAAF	MS	-	-	Test	nti.org	-	-
1991-A02	2448340.50	1991 Mar 25	Arrow 1	-	2	0.000	IAI	MF	U	-	Test	AWST931025-30	AWST910401-79	-
1991-A06	2448559.50	1991 Oct 30	Arrow 1	-	3	0.000	IAI	MF	U	-	Test	AWST931025-30	-	-
1992-A13	2448888.50	1992 Sep 23	Arrow 1	-	4	0.000	IAI	MS	-	-	Test	AWST931025-30	-	-
1993-A04	2449046.50	1993 Feb 28	Arrow 1	-	5a	0.000	IAI	MS	-	-	Test	AWST931025-30	-	-
1993-A05	2449046.50	1993 Feb 28	Arrow 1	-	5b	0.000	IAI	MS	-	-	Test	AWST931025-30	-	-
1993-A08	2449182.50	1993 Jul 14	Arrow 1	-	6	0.000	IAI	MS	-	-	Test	AWST931025-30	AWST930719-17	-
1993-A15	2449274.50	1993 Oct 14	Arrow 1	-	7a	0.000	IAI	MS	-	-	Test	AWST931025-30	-	-
1993-A16	2449274.50	1993 Oct 14	Arrow 1	-	7b	0.000	IAI	MS	-	-	Test	AWST931025-30	-	-
1994-A04	2449411.50	1994 Mar	Arrow 1	-	8	0.000	IAI	MS	-	-	Test	AWST940620-26	-	-
1994-A05	2449515.50	1994 Jun 12	Arrow 1	-	9	0.000	IAI	MS	-	-	Test	AWST940620-26	-	-
1994-S65	2449610.50	1994 Sep 15	Jericho II	?	3?	0.000	IDF	MF	U	-	Test?	FI980204-22	WWW-Wade	-
1995-018	2449812.97	1995 Apr 5 1116	Shavit 1	-	3	0.225	ISA	OS	-	G	Sat LEO O	WSL	AWST950410-67	-
1996-M03	2450315.50	1996 Aug 20	Arrow 1	-	-	0.000	IAI	MS	-	-	Target	AWST960826-73	-	-
1997-M02	2450679.85	1997 Aug 19 0820?	Arrow 1	-	-	0.000	IAI	MS	-	-	Target	www.fas.org	AWST970825-16	-
1998-F01	2450836.04	1998 Jan 22 1256	Shavit 1	-	4	0.250	ISA	OF	S2P	G	Sat LEO O	Wire	-	Details unknown
1999-M03	2451483.90	1999 Nov 1 0942	Arrow 1	-	TM-91C	0.000	IAI	MS	-	-	Target	Wire	-	-
2001-S31	2452087.50	2001 Jun 27	Jericho II	-	-	0.000	IDF	MS	-	-	OT	Wire	-	-
2002-025	2452423.14	2002 May 28 1525	Shavit 1	-	5	0.300	ISA	OS	-	G	Sat LEO O	www.iai.co.il	-	-
2004-F01	2453254.95	2004 Sep 6 1053	Shavit 1	-	6	0.300	ISA	OF	S3I	G	Sat LEO O	jpost.com	-	Possible sep issue
2007-025	2454262.49	2007 Jun 10 2340	Shavit 2	-	7	0.300	ISA	OS	-	G	Sat LEO O	Wire	-	-
2008-S02	2454482.78	2008 Jan 17 0645	Jericho III	-	M1	0.000	IDF	MS	-	-	Test	Wire	-	-
2010-031	2455370.29	2010 Jun 22 1900?	Shavit 2	-	8	0.300	ISA	OS	-	G	Sat LEO O	TLE	Wire	-
2011-S51	2455867.83	2011 Nov 2 0750	Jericho III	-	-	0.000	IDF	MS	-	-	Test	israelhayom.com	-	-
2013-S52	2456485.50	2013 Jul 12	Jericho III	-	-	0.000	IDF	MS	-	-	Test	Wire	-	-
2014-019	2456757.30	2014 Apr 9 1906:02?	Shavit 2	-	9	0.300	ISA	OS	-	G	Sat LEO O	YT/IsraeliModOnline	jpost.com	-
2016-056	2457645.11	2016 Sep 13 1438	Shavit 2	-	10	0.300	ISA	OS	-	G	Sat LEO O	novosti-kosmonavtiki	-	-
2020-044	2459036.54	2020 Jul 6 0100	Shavit 2	-	11	0.300	ISA	OS	-	G	Sat LEO O	Wire	-	-
2023-044	2460032.47	2023 Mar 28 2310	Shavit 2	-	12	0.300	ISA	OS	-	G	Sat LEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A15	2435899.41	1957 Mar 1 2151	Jupiter IRBM	-	AM-1A	R&D	-	-	-	CC	LC5	-	-	14	-	-
1957-A30	2435955.34	1957 Apr 26 2012	Jupiter IRBM	-	AM-1B	R&D	-	-	-	CC	LC5	-	-	18	-	-
1957-S37	2435990.26	1957 May 31 1808	Jupiter IRBM	-	AM-1	R&D	-	-	-	CC	LC5	-	-	650	2130	-
1957-S99	2436079.38	1957 Aug 28 2102	Jupiter IRBM	-	AM-2	R&D	-	-	-	CC	LC26A	-	-	500?	2759	-
1957-S141	2436134.55	1957 Oct 23 0107	Jupiter IRBM	-	AM-3	R&D	-	-	-	CC	LC26B	-	-	500?	2020	-
1957-A134	2436169.59	1957 Nov 27 0210	Jupiter IRBM	-	AM-3A	R&D	-	-	-	CC	LC26B	-	-	20	-	-
1957-S181	2436191.50	1957 Dec 19 0007	Jupiter IRBM	-	AM-4	R&D	-	-	-	CC	LC26B	-	-	92	-	-
1958-S64	2436341.71	1958 May 18 0505	Jupiter IRBM	-	AM-5	R&D/Gaslight	-	Tactical Nosecone	-	CC	LC26B	-	-	500?	2328	-
1958-S104	2436401.88	1958 Jul 17 0904	Jupiter IRBM	-	AM-6B	R&D/Gaslight	-	Tactical Nosecone	-	CC	LC26B	-	-	500?	2298	-
1958-S176	2436443.47	1958 Aug 27 2315	Jupiter IRBM	-	AM-7	R&D	-	-	-	CC	LC26A	-	-	500?	2235	-
1958-A133	2436486.66	1958 Oct 10 0349	Jupiter IRBM	-	AM-9	R&D	-	-	-	CC	LC26B	-	-	2	9	-
1958 THE	2436543.74	1958 Dec 6 0544:52	Juno II	-	AM-11	Pioneer 3	Pioneer 3	-	-	CC	LC5	-	-	102200	-	-
1958-S285	2436550.87	1958 Dec 13 0853:44	Jupiter IRBM	-	AM-13	Bioflight 1	-	-	-	CC	LC26B	-	-	500	2420	-
1959-S06	2436590.51	1959 Jan 22 0010	Jupiter IRBM	-	CM-21	Tactical Test	Prod/Qual Flight	-	-	CC	LC5	-	-	500?	2417	-
1959-S19	2436627.49	1959 Feb 27 2350	Jupiter IRBM	-	CM-22	R&D	-	-	-	CC	LC26B	-	-	500?	2411	-
1959 NU	2436630.72	1959 Mar 3 0510:56	Juno II	-	AM-14	Pioneer 4	Pioneer 4	-	-	CC	LC5	-	-	150000	-	-
1959-S43	2436662.52	1959 Apr 4 0034	Jupiter IRBM	-	CM-22A	R&D	-	-	-	CC	LC26B	-	-	500?	-	-
1959-S64	2436695.57	1959 May 7 0147	Jupiter IRBM	-	AM-12	R&D	-	-	-	CC	LC26B	-	-	500?	-	-
1959-S71	2436702.74	1959 May 14 0552	Jupiter IRBM	-	AM-17	R&D	-	-	-	CC	LC5	-	-	500?	-	-
1959-S78	2436716.82	1959 May 28 0735:02	Jupiter IRBM	-	AM-18	Bioflight 2	-	-	-	CC	LC26B	-	-	483	2411	-
1959-S106	2436759.54	1959 Jul 10 0101	Jupiter IRBM	-	AM-15	R&D	-	-	-	CC	LC26B	-	-	500	2411	-
1959-F05	2436766.23	1959 Jul 16 1737:03	Juno II	-	AM-16	NASA S-1	NASA S-1	-	-	CC	LC5	-	-	0	-	-
1959-F07	2436795.52	1959 Aug 15 0031:00	Juno II	(3)	AM-19B	Beacon 2	Beacon	-	-	CC	LC26B	-	-	831	-	-
1959-S153	2436807.56	1959 Aug 27 0130	Jupiter IRBM	-	AM-19	R&D Short range	-	-	-	CC	LC5	-	-	500?	556	-
1959-S173	2436827.41	1959 Sep 15 2145	Jupiter IRBM	-	AM-23	Bioflight 3	-	-	-	CC	LC26B	-	-	500?	-	-
1959-S193	2436842.56	1959 Oct 1 0128	Jupiter IRBM	-	AM-24	R&D	-	-	-	CC	LC6	-	-	500?	2406	-
1959 IOT	2436855.15	1959 Oct 13 1530:04	Juno II	-	AM-19A	Explorer 7	NASA S-1A	-	-	CC	LC5	-	-	1091	-	-
1959-S219	2436863.64	1959 Oct 22 0320	Jupiter IRBM	-	CM-31	R&D	-	-	-	CC	LC26A	-	-	500?	2964	-
1959-S233	2436877.53	1959 Nov 5 0038	Jupiter IRBM	-	CM-33	R&D	-	-	-	CC	LC6	-	-	500?	2406	-
1959-S244	2436891.56	1959 Nov 19 0131	Jupiter IRBM	-	AM-25	R&D	-	-	-	CC	LC26B	-	-	500?	1231	-
1959-S267	2436912.51	1959 Dec 10 0008	Jupiter IRBM	-	AM-32	R&D	-	-	-	CC	LC6	-	-	500?	2406	-
1959-S272	2436919.50	1959 Dec 17 0003	Jupiter IRBM	-	AM-26	R&D	-	-	-	CC	LC26B	-	-	500?	556	-
1960-S20	2436959.53	1960 Jan 26 0048	Jupiter IRBM	-	AM-28	R&D	-	-	-	CC	LC26B	-	-	500?	2406	-
1960-S31	2436969.51	1960 Feb 5 0019	Jupiter IRBM	-	AM-30	R&D	-	-	-	CC	LC6	-	-	500?	2406	-
1960-F04	2437017.07	1960 Mar 23 1335:11	Juno II	-	AM-19C	NASA S-46	NASA S-46	-	-	CC	LC26B	-	-	401	-	-
1960-S331	2437228.17	1960 Oct 20 1602	Jupiter IRBM	-	CM-217	LST	Live System Test	-	-	CC	LC26A	-	-	500?	1782	-
1960 XI	2437241.72	1960 Nov 3 0523:10	Juno II	-	AM-19D	Explorer 8	NASA S-30	-	-	CC	LC26B	-	-	2290	-	-
1961-F01	2437355.51	1961 Feb 25 0013:16	Juno II	-	AM-19F	NASA S-45	NASA S-45	-	-	CC	LC26B	-	-	395	-	-
1961-S126	2437412.09	1961 Apr 22 1407	Jupiter IRBM	-	CM-209	CTL	-	-	-	CC	LC26A	-	-	500?	2804	-
1961 NU	2437417.09	1961 Apr 27 1416:38	Juno II	-	AM-19E	Explorer 11	NASA S-15	-	-	CC	LC26B	-	-	1790	-	-
1961-F04	2437444.33	1961 May 24 1948:05	Juno II	-	AM-19G	NASA S-45A	NASA S-45A	-	-	CC	LC26B	-	-	444	-	-
1961-S230	2437516.51	1961 Aug 5 0019	Jupiter IRBM	-	CM-218	CTL	-	-	-	CC	LC26A	-	-	500?	2804	-
1961-S411	2437640.44	1961 Dec 6 2237	Jupiter IRBM	-	CM-115	CTL	-	-	-	CC	LC26A	-	-	500?	2808	-
1962-S104	2437773.26	1962 Apr 18 1817:54	Jupiter IRBM	-	CM-114	CTL	-	-	-	CC	LC26A	-	-	500?	2376?	-
1962-S275	2437878.28	1962 Aug 1 1840:40	Jupiter IRBM	-	CM-111	CTL	-	-	-	CC	LC26A	-	-	500?	2804?	-
1963-S15	2438052.52	1963 Jan 23 0027:37	Jupiter IRBM	-	CM-106	CTL	-	-	-	CC	LC26A	-	-	500?	2846?	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A15	2435899.41	1957 Mar 1 2151	Jupiter IRBM	-	AM-1A	0.000	AFBMD/ABMA	MF	S1	-	Test	Jupiter	-	-
1957-A30	2435955.34	1957 Apr 26 2012	Jupiter IRBM	-	AM-1B	0.000	AFBMD/ABMA	MF	S1	-	Test	Jupiter	-	-
1957-S37	2435990.26	1957 May 31 1808	Jupiter IRBM	-	AM-1	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1957-S99	2436079.38	1957 Aug 28 2102	Jupiter IRBM	-	AM-2	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1957-S141	2436134.55	1957 Oct 23 0107	Jupiter IRBM	-	AM-3	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1957-A134	2436169.59	1957 Nov 27 0210	Jupiter IRBM	-	AM-3A	0.000	AFBMD/ABMA	MF	S1	-	Test	Jupiter	-	-
1957-S181	2436191.50	1957 Dec 19 0007	Jupiter IRBM	-	AM-4	0.000	AFBMD/ABMA	MF	S1	-	Test	Jupiter	-	-
1958-S64	2436341.71	1958 May 18 0505	Jupiter IRBM	-	AM-5	0.000	AFBMD/ABMA	MS	-	-	Reentry Test	Jupiter	-	-
1958-S104	2436401.88	1958 Jul 17 0904	Jupiter IRBM	-	AM-6B	0.000	AFBMD/ABMA	MS	-	-	Reentry Test	Jupiter	-	-
1958-S176	2436443.47	1958 Aug 27 2315	Jupiter IRBM	-	AM-7	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1958-A133	2436486.66	1958 Oct 10 0349	Jupiter IRBM	-	AM-9	0.000	AFBMD/ABMA	MF	S1	-	Test	Jupiter	-	-
1958 THE	2436543.74	1958 Dec 6 0544:52	Juno II	-	AM-11	0.006	ABMA	OS	-	G	Sat HEO O	JPL32-31-2	-	-
1958-S285	2436550.87	1958 Dec 13 0853:44	Jupiter IRBM	-	AM-13	0.000	AFBMD/ABMA	RS	-	-	Bio	Jupiter	-	-
1959-S06	2436590.51	1959 Jan 22 0010	Jupiter IRBM	-	CM-21	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S19	2436627.49	1959 Feb 27 2350	Jupiter IRBM	-	CM-22	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959 NU	2436630.72	1959 Mar 3 0510:56	Juno II	-	AM-14	0.007	ABMA	DS	-	G	Sat EEO E	JPL32-31-2	-	-
1959-S43	2436662.52	1959 Apr 4 0034	Jupiter IRBM	-	CM-22A	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S64	2436695.57	1959 May 7 0147	Jupiter IRBM	-	AM-12	0.000	AFBMD/ABMA	MS	-	PSU/Nisbet	Test/Ionos	Jupiter	JGR65,2597	-
1959-S71	2436702.74	1959 May 14 0552	Jupiter IRBM	-	AM-17	0.000	AFBMD/ABMA	MS	-	PSU/Nisbet	Test/Ionos	Jupiter	JGR65,2597	-
1959-S78	2436716.82	1959 May 28 0735:02	Jupiter IRBM	-	AM-18	0.000	AFBMD/ABMA	RS	-	PSU/Nisbet	Test/Ionos	Jupiter	WDCRF	-
1959-S106	2436759.54	1959 Jul 10 0101	Jupiter IRBM	-	AM-15	0.000	AFBMD/ABMA	MS	-	PSU/Nisbet	Test/Ionos	Jupiter	JGR65,2597	-
1959-F05	2436766.23	1959 Jul 16 1737:03	Juno II	-	AM-16	0.041	ABMA	OF	S1G	G	Sat LEO O	JPL32-31-3	-	Short in guidance system
1959-F07	2436795.52	1959 Aug 15 0031:00	Juno II	(3)	AM-19B	0.014	ABMA	OF	S2G	G	Sat LEO O	JPL32-31-3	-	S1 low, guidance died
1959-S153	2436807.56	1959 Aug 27 0130	Jupiter IRBM	-	AM-19	0.000	AFBMD/ABMA	MS	-	PSU/Bowhill	Test/Ionos	Jupiter	SR2,1208	-
1959-S173	2436827.41	1959 Sep 15 2145	Jupiter IRBM	-	AM-23	0.000	AFBMD/ABMA	RF	S1	-	Bio	Jupiter	-	-
1959-S193	2436842.56	1959 Oct 1 0128	Jupiter IRBM	-	AM-24	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959 IOT	2436855.15	1959 Oct 13 1530:04	Juno II	-	AM-19A	0.041	ABMA	OS	-	G	Sat LEO O	FOM-JUNO-AM16A	JPL32-31-3	-
1959-S219	2436863.64	1959 Oct 22 0320	Jupiter IRBM	-	CM-31	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S233	2436877.53	1959 Nov 5 0038	Jupiter IRBM	-	CM-33	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S244	2436891.56	1959 Nov 19 0131	Jupiter IRBM	-	AM-25	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S267	2436912.51	1959 Dec 10 0008	Jupiter IRBM	-	AM-32	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1959-S272	2436919.50	1959 Dec 17 0003	Jupiter IRBM	-	AM-26	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1960-S20	2436959.53	1960 Jan 26 0048	Jupiter IRBM	-	AM-28	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	TN-D-1544	-
1960-S31	2436969.51	1960 Feb 5 0019	Jupiter IRBM	-	AM-30	0.000	AFBMD/ABMA	MS	-	-	Test	Jupiter	-	-
1960-F04	2437017.07	1960 Mar 23 1335:11	Juno II	-	AM-19C	0.010	MSFC	OF	S2I	G	Sat LEO O	ABMA	-	One S2 motor ft ignite
1960-S331	2437228.17	1960 Oct 20 1602	Jupiter IRBM	-	CM-217	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1960 XI	2437241.72	1960 Nov 3 0523:10	Juno II	-	AM-19D	0.042	MSFC	OS	-	G	Sat LEO O	ABMA	-	-
1961-F01	2437355.51	1961 Feb 25 0013:16	Juno II	-	AM-19F	0.034	MSFC	OF	S2G	G	Sat LEO O	ABMA Memo	JPL32-31-3	Possible structural failure?
1961-S126	2437412.09	1961 Apr 22 1407	Jupiter IRBM	-	CM-209	0.000	36AIS	MS	-	-	OT	ClearyArmy06	Jupiter	-
1961 NU	2437417.09	1961 Apr 27 1416:38	Juno II	-	AM-19E	0.046	MSFC	OS	-	G	Sat LEO O	MTP-LOD-OIR-61-13.1	-	-
1961-F04	2437444.33	1961 May 24 1948:05	Juno II	-	AM-19G	0.034	MSFC	OF	S2I	G	Sat LEO O	ABMA	-	S2 no ignition
1961-S230	2437516.51	1961 Aug 5 0019	Jupiter IRBM	-	CM-218	0.000	36AIS	MS	-	-	OT	Jupiter	-	-
1961-S411	2437640.44	1961 Dec 6 2237	Jupiter IRBM	-	CM-115	0.000	36AIS	MS	-	-	OT	Jupiter	-	-
1962-S104	2437773.26	1962 Apr 18 1817:54	Jupiter IRBM	-	CM-114	0.000	TUAF	MF	S1	-	OT	Jupiter	MR620423-10	-
1962-S275	2437878.28	1962 Aug 1 1840:40	Jupiter IRBM	-	CM-111	0.000	36AIS	MS	-	-	OT	nsf-koenn	Jupiter	-
1963-S15	2438052.52	1963 Jan 23 0027:37	Jupiter IRBM	-	CM-106	0.000	36AIS	MS	-	-	OT	nsf-koenn	Jupiter	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2008-S11	2454522.81	2008 Feb 26 0728	K-15	-	1	Sagarika	-	-	-	VISKH	-	-	-	300?	-	-
2008-S60	2454782.75	2008 Nov 12 0555	Shaurya	-	1	R&D	-	-	-	CHAN	IC3	-	-	200?	-	-
2011-A24	2455828.88	2011 Sep 24 0900	Shaurya	-	2	R&D	-	-	-	CHAN	IC3	-	-	40	-	-
2013-S02	2456319.84	2013 Jan 27 0810	K-15	?	14	BO-5	-	-	-	VISKH?	-	-	-	300?	-	-
2015-S99	2457351.50	2015 Nov 25?	K-15	-	-	Sagarika	-	-	INS-S73	VISKH	-	-	-	300?	700?	-
2018-S94	2458341.50	2018 Aug 11	K-15	-	-	Sagarika	-	-	INS-S73	VISKH	-	-	-	300?	700?	-
2018-S95	2458341.50	2018 Aug 11	K-15	-	-	Sagarika	-	-	INS-S73	VISKH	-	-	-	300?	700?	-
2018-S96	2458342.50	2018 Aug 12	K-15	-	-	Sagarika	-	-	INS-S73	VISKH	-	-	-	300?	700?	-
2020-S44	2459125.78	2020 Oct 3 0640	Shaurya	-	-	Shaurya	-	-	-	CHAN	IC4	-	-	300?	850?	-
2022-S101	2459866.50	2022 Oct 14	K-15	-	-	-	-	-	INS-S73	CHAN	IC4?	-	-	300?	700?	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2008-S11	2454522.81	2008 Feb 26 0728	K-15	-	1	0.000	DRDO	MS	-	-	Test	newindpress.com	Rigg	-
2008-S60	2454782.75	2008 Nov 12 0555	Shaurya	-	1	0.000	DRDO	MS	-	-	Test	Wire	-	-
2011-A24	2455828.88	2011 Sep 24 0900	Shaurya	-	2	0.000	DRDO	MS	-	-	Test	Wire	-	-
2013-S02	2456319.84	2013 Jan 27 0810	K-15	?	14	0.000	DRDO	MS	-	-	Test	ndtv.com	-	-
2015-S99	2457351.50	2015 Nov 25?	K-15	-	-	0.000	DRDO	MS	-	-	Test	thediplomat.com	-	-
2018-S94	2458341.50	2018 Aug 11	K-15	-	-	0.000	DRDO	MS	-	-	Test	thediplomat.com	-	-
2018-S95	2458341.50	2018 Aug 11	K-15	-	-	0.000	DRDO	MS	-	-	Test	thediplomat.com	-	-
2018-S96	2458342.50	2018 Aug 12	K-15	-	-	0.000	DRDO	MS	-	-	Test	thediplomat.com	-	-
2020-S44	2459125.78	2020 Oct 3 0640	Shaurya	-	-	0.000	DRDO	MS	-	-	Test	Wire	-	-
2022-S101	2459866.50	2022 Oct 14	K-15	-	-	0.000	DRDO	MS	-	-	Test	navalnews.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2016-S27	2457478.50	2016 Mar 31	K-4	-	1	-	-	-	INS-S73	VISKH	-	-	-	500?	3500?	-
2019-A02	2458526.74	2019 Feb 12 0540?	PDV Mk II	-	-	Prithvi Defense Vehicle	-	-	-	CHAN	IC3	-	-	10?	-	-
2019-S14	2458569.74	2019 Mar 27 0539	PDV Mk II	-	-	Prithvi Defense Vehicle	Mission Shakti	-	-	CHAN	IC3	-	-	280?	-	-
2020-S11	2458867.50	2020 Jan 19	K-4	-	-	-	Pontoon launch	-	-	VISKH	-	-	-	500?	3500?	-
2020-S15	2458872.50	2020 Jan 24	K-4	-	-	-	Pontoon launch	-	-	VISKH	-	-	-	500?	3500?	-
2024-S79	2460641.50	2024 Nov 27	K-4	-	-	-	-	-	INS-S74	VISKH	-	-	-	500?	3500?	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2016-S27	2457478.50	2016 Mar 31	K-4	-	1	0.000	DRDO	MS	-	-	Test	Wire	-	-
2019-A02	2458526.74	2019 Feb 12 0540?	PDV Mk II	-	-	0.000	IDRDL	MF	U	-	ASAT	thediplomat.com	-	-
2019-S14	2458569.74	2019 Mar 27 0539	PDV Mk II	-	-	0.000	IDRDL	MS	-	-	ASAT	Ahammed25	-	-
2020-S11	2458867.50	2020 Jan 19	K-4	-	-	0.000	DRDO	MS	-	-	Test	Wire	-	-
2020-S15	2458872.50	2020 Jan 24	K-4	-	-	0.000	DRDO	MS	-	-	Test	Wire	-	-
2024-S79	2460641.50	2024 Nov 27	K-4	-	-	0.000	DRDO	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A30	2436301.56	1958 Apr 8 0131	K150	-	K150S-1	-	-	-	-	AKT	-	-	-	6?	-	-
1958-A37	2436317.52	1958 Apr 24 0030	K150	-	K150T-1	-	-	-	-	AKT	-	-	-	6	-	-
1958-A38	2436317.67	1958 Apr 24 0400	K150	-	K150T-2	-	-	-	-	AKT	-	-	-	6	-	-
1958-A48	2436350.66	1958 May 27 0345	K150	-	K150G	-	-	-	-	AKT	-	-	-	5	-	-
1960-A280	2437268.50	1960 Dec	K150	-	SP-150-1	K-9L 1/1.6 Model	-	-	-	AKT	-	-	-	5?	-	-
1960-A281	2437268.50	1960 Dec	K150	-	SP-150-2	K-9L 1/1.6 Model	-	-	-	AKT	-	-	-	5?	-	-
1961-A254	2437598.61	1961 Oct 26 0243	K150	-	FN-150	Four Nozzle test	-	-	-	AKT	-	-	-	5	-	-
1961-A272	2437653.75	1961 Dec 20 0605	K150	-	RT-150	Radar test	-	-	-	AKT	-	-	-	5	-	-
1962-A257	2437752.61	1962 Mar 29 0234	K150	-	HT-150-1	Heating Test	K-6S Prototype	-	-	AKT	-	-	-	20	-	-
1962-A124	2437898.67	1962 Aug 22 0400	K150	-	AT-150	Antenna Test	-	-	-	KASC	TMP	-	-	13	-	-
1962-A258	2437989.59	1962 Nov 21 0209	K150	-	LT-150-1	Launcher Test	-	-	-	KASC	-	-	-	5	-	-
1962-A256	2437989.76	1962 Nov 21 0609	K150	-	SP-150-3	Spin Test	-	-	-	KASC	-	-	-	6	-	-
1962-A259	2437993.76	1962 Nov 25 0611	K150	-	SP-150-4	Spin Test	-	-	-	KASC	-	-	-	10	-	-
1962-A260	2438018.63	1962 Dec 20 0311	K150	-	SO-150-1	Operational Reliability	Electronics test	-	-	KASC	-	-	-	12	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A30	2436301.56	1958 Apr 8 0131	K150	-	K150S-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A37	2436317.52	1958 Apr 24 0030	K150	-	K150T-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A38	2436317.67	1958 Apr 24 0400	K150	-	K150T-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A48	2436350.66	1958 May 27 0345	K150	-	K150G	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1960-A280	2437268.50	1960 Dec	K150	-	SP-150-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	ISTS2	-
1960-A281	2437268.50	1960 Dec	K150	-	SP-150-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	ISTS2	-
1961-A254	2437598.61	1961 Oct 26 0243	K150	-	FN-150	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-
1961-A272	2437653.75	1961 Dec 20 0605	K150	-	RT-150	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-
1962-A257	2437752.61	1962 Mar 29 0234	K150	-	HT-150-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303-p422	TT-F-303-p280	-
1962-A124	2437898.67	1962 Aug 22 0400	K150	-	AT-150	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303-p425	ISTS4	-
1962-A258	2437989.59	1962 Nov 21 0209	K150	-	LT-150-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-
1962-A256	2437989.76	1962 Nov 21 0609	K150	-	SP-150-3	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-
1962-A259	2437993.76	1962 Nov 25 0611	K150	-	SP-150-4	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-
1962-A260	2438018.63	1962 Dec 20 0311	K150	-	SO-150-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F-303	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A33	2435958.50	1957 Apr 30	Kappa 2	-	K-2-1	-	-	-	-	AKT	-	-	-	30?	-	-
1957-A34	2435960.50	1957 May 2	Kappa 3	-	K-3-1	-	-	-	-	AKT	-	-	-	30?	-	-
1957-A54	2436011.50	1957 Jun 22	Kappa 3	-	K-3-2	-	-	-	-	AKT	-	-	-	30?	-	-
1957-A55	2436045.50	1957 Jul 26	Kappa 3	-	K-3-3	-	-	-	-	AKT	-	-	-	30?	-	-
1958-A34	2436313.50	1958 Apr 20 0000	Kappa 5	-	K-5-1	-	-	-	-	AKT	-	-	-	9	-	-
1958-A47	2436349.65	1958 May 26 0341	Kappa 5	-	K-5-L	-	-	-	-	AKT	-	-	-	15	-	-
1958-A53	2436368.55	1958 Jun 14 0111	K245	-	-	-	-	-	-	AKT	-	-	-	1	-	-
1958-A54	2436370.61	1958 Jun 16 0236	Kappa 6	-	K-6-1	K-6-1	-	-	-	AKT	-	-	-	30?	-	-
1958-A57	2436374.76	1958 Jun 20 0615	Kappa 6	-	K-6-2	K-6-2	-	-	-	AKT	-	-	-	45	-	-
1958-A58	2436378.58	1958 Jun 24 0151	Kappa 6	-	K-6-TW-1	K-6-5?	S1	-	-	AKT	-	-	-	25	-	-
1958-A66	2436384.83	1958 Jun 30 0752	Kappa 6	-	K-6-TW-2	K-6-6?	S2	-	-	AKT	-	-	-	45	-	-
1958-A116	2436458.56	1958 Sep 12 0131	Kappa 6	-	K-6-3	K-6-3	-	-	-	AKT	-	-	-	4	-	-
1958-A117	2436460.61	1958 Sep 14 0240	Kappa 6	-	K-6-4	K-6-4	-	-	-	AKT	-	-	-	40	-	-
1958-A129	2436471.62	1958 Sep 25 0255	Kappa 6	-	K-6-TW-3	K-6-7	S3	-	-	AKT	-	-	-	44	-	-
1958-M11	2436471.74	1958 Sep 25 0550	Kappa 6	-	K-6-RS-1	K-6-8	S4	-	-	AKT	-	-	-	51	-	-
1958-M12	2436472.66	1958 Sep 26 0350	Kappa 6	-	K-6-TW-4	K-6-9	S5	-	-	AKT	-	-	-	58	-	-
1958-A153	2436535.63	1958 Nov 28 0305	Kappa 6	-	K-6-CP-1	K-6-10	-	-	-	AKT	-	-	-	36	-	-
1958-A154	2436536.63	1958 Nov 29 0305	Kappa 6	-	K-6-RS-2	K-6-11	-	-	-	AKT	-	-	-	40	-	-
1958-A156	2436537.67	1958 Nov 30 0400	Kappa 6	-	K-6-CP-2	K-6-12	-	-	-	AKT	-	-	-	49	-	-
1958-M30	2436560.63	1958 Dec 23 0303	Kappa 6	-	K-6-TW-5	K-6-13	Grenade	-	-	AKT	-	-	-	60	-	-
1959-M07	2436644.57	1959 Mar 17 0135	Kappa 6	-	K-6-RS-3	K-6-14	-	-	-	AKT	-	-	-	60	-	-
1959-M08	2436645.61	1959 Mar 18 0245	Kappa 6	-	K-6-TW-6	K-6-15	Grenade	-	-	AKT	-	-	-	50	-	-
1959-M09	2436646.55	1959 Mar 19 0115	Kappa 6	-	K-6-RS-4	K-6-16	-	-	-	AKT	-	-	-	50	-	-
1959-M10	2436647.62	1959 Mar 20 0250	Kappa 6	-	K-6-TW-7	K-6-17	Grenade	-	-	AKT	-	-	-	50	-	-
1960-A220	2437194.62	1960 Sep 17 0247	Kappa 6	-	K-6-TW-8	K-6-18	Grenade	-	-	AKT	-	-	-	46	-	-
1960-M29	2437206.62	1960 Sep 29 0246	Kappa 6H	-	K-6H-TW-9	K-6H-1	Grenade	-	-	AKT	-	-	-	70	-	-
1962-S308	2437899.80	1962 Aug 23 0715	Kappa 8L	-	K-8L-1	-	-	-	-	KASC	TMP	-	-	173	-	-
1963-S596	2438375.87	1963 Dec 12 0850	Kappa 8L	-	K-8L-2	-	-	-	-	KASC	-	-	-	103	-	-
1964-S183	2438486.63	1964 Apr 1 0310	Kappa 8L	-	K-8L-3	-	-	-	-	KASC	-	-	-	100?	-	-
1964-S381	2438602.88	1964 Jul 26 0907	Kappa 8L	-	K-8L-4	-	-	-	-	KASC	-	-	-	124	-	-
1964-S382	2438602.95	1964 Jul 26 1051	Kappa 8L	-	K-8L-5	-	-	-	-	KASC	-	-	-	112	-	-
1964-S565	2438701.88	1964 Nov 2 0903	Kappa 8L	-	K-8L-7	-	-	-	-	KASC	-	-	-	156	-	-
1964-S609	2438709.59	1964 Nov 10 0205	Kappa 8L	-	K-8L-8	-	-	-	-	KASC	-	-	-	145	-	-
1964-S617	2438711.63	1964 Nov 12 0305	Kappa 8L	-	K-8L-6	-	-	-	-	KASC	-	-	-	100?	-	-
1965-S545	2439039.67	1965 Oct 6 0400	Kappa 8L	-	K-8L-9	-	-	-	-	KASC	-	-	-	141	-	-
1966-A23	2439151.59	1966 Jan 26 0210	S-250	-	BT-250-1	-	-	-	-	KASC	-	-	-	6	-	-
1966-S435	2439349.00	1966 Aug 11 1205	Kappa 8L	-	K-8L-10	-	-	-	-	KASC	-	-	-	130	-	-
1966-S546	2439416.89	1966 Oct 18 0917	Kappa 8L	-	K-8L-11	-	-	-	-	KASC	-	-	-	150	-	-
1966-S675	2439469.58	1966 Dec 10 0200	Kappa 8L	-	K-8L-12	-	-	-	-	KASC	-	-	-	147	-	-
1969-S55	2440229.50	1969 Jan 08	S-250	-	SO-250-B	-	-	-	-	KASC	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A33	2435958.50	1957 Apr 30	Kappa 2	-	K-2-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	IGY6	-
1957-A34	2435960.50	1957 May 2	Kappa 3	-	K-3-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	IGY6	-
1957-A54	2436011.50	1957 Jun 22	Kappa 3	-	K-3-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	IGY6	-
1957-A55	2436045.50	1957 Jul 26	Kappa 3	-	K-3-3	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	IGY6	-
1958-A34	2436313.50	1958 Apr 20 0000	Kappa 5	-	K-5-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A47	2436349.65	1958 May 26 0341	Kappa 5	-	K-5-L	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A53	2436368.55	1958 Jun 14 0111	K245	-	-	0.000	ISAS	SS	-	ISAS/	Test	ISTS1	-	-
1958-A54	2436370.61	1958 Jun 16 0236	Kappa 6	-	K-6-1	0.000	ISAS	SU	-	ISAS/	Test?	TT-F303	-	-
1958-A57	2436374.76	1958 Jun 20 0615	Kappa 6	-	K-6-2	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	-	-
1958-A58	2436378.58	1958 Jun 24 0151	Kappa 6	-	K-6-TW-1	0.000	ISAS	SF	S1	KOBE/Matsumoto	Aeron	IGY36	-	-
1958-A66	2436384.83	1958 Jun 30 0752	Kappa 6	-	K-6-TW-2	0.000	ISAS	SF	S1	KOBE/Matsumoto	Aeron	IGY36	-	-
1958-A116	2436458.56	1958 Sep 12 0131	Kappa 6	-	K-6-3	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	-	-
1958-A117	2436460.61	1958 Sep 14 0240	Kappa 6	-	K-6-4	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	-	-
1958-A129	2436471.62	1958 Sep 25 0255	Kappa 6	-	K-6-TW-3	0.000	ISAS	SF	S1	KOBE/Matsumoto	Aeron	IGY36	-	-
1958-M11	2436471.74	1958 Sep 25 0550	Kappa 6	-	K-6-RS-1	0.000	ISAS	SS	-	TAO/Saito	Solar UV	IGY36	-	-
1958-M12	2436472.66	1958 Sep 26 0350	Kappa 6	-	K-6-TW-4	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	IGY36	TT-F8550	-
1958-A153	2436535.63	1958 Nov 28 0305	Kappa 6	-	K-6-CP-1	0.000	ISAS	SF	S1	TOK/Takeuchi	CR/Aeron	IGY36	-	-
1958-A154	2436536.63	1958 Nov 29 0305	Kappa 6	-	K-6-RS-2	0.000	ISAS	SF	S1	TAO/Saito	Solar UV	IGY36	-	-
1958-A156	2436537.67	1958 Nov 30 0400	Kappa 6	-	K-6-CP-2	0.000	ISAS	SS	-	TOK/Takeuchi	CR/Aeron	IGY36	-	-
1958-M30	2436560.63	1958 Dec 23 0303	Kappa 6	-	K-6-TW-5	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	IGY36	SR2,1080	-
1959-M07	2436644.57	1959 Mar 17 0135	Kappa 6	-	K-6-RS-3	0.000	ISAS	SS	-	TAO/Saito	Solar UV	IGY36	-	-
1959-M08	2436645.61	1959 Mar 18 0245	Kappa 6	-	K-6-TW-6	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	IGY36	SR2,1080	-
1959-M09	2436646.55	1959 Mar 19 0115	Kappa 6	-	K-6-RS-4	0.000	ISAS	SS	-	TAO/Saito	Solar UV	IGY36	-	-
1959-M10	2436647.62	1959 Mar 20 0250	Kappa 6	-	K-6-TW-7	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	IGY36	SR2,1080	-
1960-A220	2437194.62	1960 Sep 17 0247	Kappa 6	-	K-6-TW-8	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	TT-F303	SR2,1080	-
1960-M29	2437206.62	1960 Sep 29 0246	Kappa 6H	-	K-6H-TW-9	0.000	ISAS	SS	-	KOBE/Matsumoto	Aeron	TT-F303	SR2,1080	-
1962-S308	2437899.80	1962 Aug 23 0715	Kappa 8L	-	K-8L-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	ISTS4	-
1963-S596	2438375.87	1963 Dec 12 0850	Kappa 8L	-	K-8L-2	0.000	ISAS	SS	-	ISAS/	Aeron/Fields	ISTS6-8	-	-
1964-S183	2438486.63	1964 Apr 1 0310	Kappa 8L	-	K-8L-3	0.000	ISAS	SS	-	ISAS/	Aeron/Fields?	ISTS6-8	-	-
1964-S381	2438602.88	1964 Jul 26 0907	Kappa 8L	-	K-8L-4	0.000	ISAS	SS	-	ISAS/	Aeron	ISRJ20-214	-	-
1964-S382	2438602.95	1964 Jul 26 1051	Kappa 8L	-	K-8L-5	0.000	ISAS	SS	-	TAO/Saito	Aeron	ISRJ20-214	SR6-1121	-
1964-S565	2438701.88	1964 Nov 2 0903	Kappa 8L	-	K-8L-7	0.000	ISAS	SS	-	TAO/Huruhata	Aeron	ISRJ20-214	SR6-1121	-
1964-S609	2438709.59	1964 Nov 10 0205	Kappa 8L	-	K-8L-8	0.000	ISAS	SS	-	OSAKA/Okumoto	Ionos	WDCRF	-	-
1964-S617	2438711.63	1964 Nov 12 0305	Kappa 8L	-	K-8L-6	0.000	ISAS	SS	-	OSAKA/Okumoto	Aeron	WDCRF	-	-
1965-S545	2439039.67	1965 Oct 6 0400	Kappa 8L	-	K-8L-9	0.000	ISAS	SS	-	TOKAI/Aoyama	Aeron	WDCRF	-	-
1966-A23	2439151.59	1966 Jan 26 0210	S-250	-	BT-250-1	0.000	ISAS	AS	-	ISAS/	Test	ISTS7	-	-
1966-S435	2439349.00	1966 Aug 11 1205	Kappa 8L	-	K-8L-10	0.000	ISAS	SS	-	TOK/Kimura.H	Aeron	WDCRF	-	-
1966-S546	2439416.89	1966 Oct 18 0917	Kappa 8L	-	K-8L-11	0.000	ISAS	SS	-	TOK/Kimura.H	Aeron	WDCRF	-	-
1966-S675	2439469.58	1966 Dec 10 0200	Kappa 8L	-	K-8L-12	0.000	ISAS	SS	-	ISAS/Tohmatsu	Aeron/Ionos/Solar	WDCRF	-	-
1969-S55	2440229.50	1969 Jan 08	S-250	-	SO-250-B	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-M38	2436890.71	1959 Nov 18 0503	Kappa 7	-	K-7-1	-	-	-	-	AKT	-	-	-	53	-	-
1960-A309	2437021.50	1960 Mar 28	Kappa 8	-	K-8D-1	-	-	-	-	AKT	-	-	-	20	-	-
1960-S169	2437126.68	1960 Jul 11 0424	Kappa 8	-	K-8-1	-	-	-	-	AKT	-	-	-	150	-	-
1960-S179	2437132.67	1960 Jul 17 0411	Kappa 8	-	K-8-2	ID-1	-	-	-	AKT	-	-	-	182	-	-
1960-S280	2437199.77	1960 Sep 22 0632	Kappa 8	-	K-8-3	ID-2/CR-3	-	-	-	AKT	-	-	-	200	-	-
1960-S287	2437203.98	1960 Sep 26 1125	Kappa 8	-	K-8-4	ID-3/CR-4	-	-	-	AKT	-	-	-	185	-	-
1961-S93	2437385.67	1961 Mar 27 0408	Kappa 8	-	K-8-5	ID-4/AG-1	-	-	-	AKT	-	-	-	172	-	-
1961-S99	2437390.64	1961 Apr 1 0325	Kappa 9L	-	K-9L-1	-	-	-	-	AKT	-	-	-	350	-	-
1961-S112	2437408.02	1961 Apr 18 1227	Kappa 8	-	K-8-6	-	-	-	-	AKT	-	-	-	150	-	-
1961-S215	2437501.61	1961 Jul 21 0242	Kappa 8	-	K-8-7	TW-10/ID-6	-	-	-	AKT	-	-	-	158	-	-
1961-S348	2437596.67	1961 Oct 24 0359	Kappa 8	-	K-8-8	-	-	-	-	AKT	-	-	-	200	-	-
1961-S361	2437602.97	1961 Oct 30 1113	Kappa 8	-	K-8-9	-	-	-	-	AKT	-	-	-	175	-	-
1961-S439	2437659.71	1961 Dec 26 0505	Kappa 9L	-	K-9L-2	-	-	-	-	AKT	-	-	-	343	-	-
1962-A83	2437808.95	1962 May 24 1050	Kappa 8	-	K-8-10	-	-	-	-	AKT	-	-	-	0	-	-
1962-M34	2437993.58	1962 Nov 25 0201	Kappa 9M	-	K-9M-1	-	-	-	-	KASC	-	-	-	58	-	-
1962-S569	2438016.71	1962 Dec 18 0503	Kappa 8	-	K-8-11	-	-	-	-	KASC	-	-	-	202	-	-
1963-S218	2438169.59	1963 May 20 0209	Kappa 9M	-	K-9M-2	-	-	-	-	KASC	-	-	-	345	-	-
1964-S389	2438605.92	1964 Jul 29 1007	Kappa 9M	-	K-9M-5	-	-	-	-	KASC	-	-	-	300?	-	-
1964-S581	2438704.63	1964 Nov 5 0301	Kappa 9M	-	K-9M-4	-	-	-	-	KASC	-	-	-	356	-	-
1965-S43	2438782.72	1965 Jan 22 0514	Kappa 9M	-	K-9M-3	-	-	-	-	KASC	-	-	-	350	-	-
1965-S81	2438797.71	1965 Feb 6 0501	Kappa 9M	-	K-9M-7	-	-	-	-	KASC	-	-	-	325	-	-
1965-S82	2438797.92	1965 Feb 6 1002	Kappa 9M	-	K-9M-6	-	-	-	-	KASC	-	-	-	335	-	-
1965-S193	2438844.97	1965 Mar 25 1121	Kappa 9M	-	K-9M-8	Airglow	-	-	-	KASC	-	-	-	320	-	-
1965-S200	2438846.71	1965 Mar 27 0501	Kappa 9M	-	K-9M-9	Te probe	-	-	-	KASC	-	-	-	335	-	-
1965-S202	2438847.79	1965 Mar 28 0701	Kappa 9M	-	K-9M-10	-	-	-	-	KASC	-	-	-	349	-	-
1965-S426	2438957.95	1965 Jul 16 1050	Kappa 8	-	K-8-12	-	-	-	-	KASC	-	-	-	160	-	-
1965-S435	2438968.00	1965 Jul 26 1201	Kappa 9M	-	K-9M-12	-	-	-	-	KASC	-	-	-	350	-	-
1965-S437	2438968.63	1965 Jul 27 0310	Kappa 9M	-	K-9M-13	-	-	-	-	KASC	-	-	-	317	-	-
1965-S445	2438979.50	1965 Aug 7	Kappa 8	-	K-8(L)	-	-	-	-	LAP	-	-	-	100	-	-
1965-S464	2438983.57	1965 Aug 11 0135	Kappa 8	-	K-8(L)-4	SK-8-4	-	-	-	LAP	-	-	-	191	-	-
1965-S469	2438989.50	1965 Aug 17 0005:00	Kappa 8	-	K-8(L)	SK-8-3 (Grenades)	-	-	-	LAP	-	-	-	100	-	-
1965-S483	2439000.58	1965 Aug 28 0202	Kappa 10S	-	K-10S-1	Te probe	-	-	-	KASC	-	-	-	742	-	-
1965-S539	2439037.62	1965 Oct 4 0300	Kappa 9M	-	K-9M-14	-	-	-	-	KASC	-	-	-	299	-	-
1965-S601	2439072.71	1965 Nov 8 0505	Kappa 10	-	K-10-1	-	-	-	-	KASC	-	-	-	228	-	-
1965-S677	2439107.76	1965 Dec 13 0620	Kappa 9M	-	K-9M-16	Ozone profile	-	-	-	KASC	-	-	-	318	-	-
1965-S689	2439112.75	1965 Dec 18 0600	Kappa 9M	-	K-9M-17	-	-	-	-	KASC	-	-	-	316	-	-
1966-S177	2439205.01	1966 Mar 20 1215	Kappa 9M	-	K-9M-15	XRA?/Airglow	-	-	-	KASC	-	-	-	300	-	-
1966-S225	2439236.00	1966 Apr 20 1205	Kappa 8	-	K-8-13	-	-	-	-	KASC	-	-	-	155	-	-
1966-S375	2439323.59	1966 Jul 17 0210	Kappa 9M	-	K-9M-18	-	-	-	-	KASC	-	-	-	326	-	-
1966-S413	2439340.58	1966 Aug 3 0200	Kappa 9M	-	K-9M-11	-	-	-	-	KASC	-	-	-	328	-	-
1966-S433	2439348.03	1966 Aug 10 1237	Kappa 9M	-	K-9M-19	VLF Doppler	-	-	-	KASC	-	-	-	330	-	-
1966-S549	2439418.60	1966 Oct 20 0220	Kappa 8	-	K-8-14	-	-	-	-	KASC	-	-	-	191	-	-
1966-S550	2439418.85	1966 Oct 20 0825	Kappa 9M	-	K-9M-20	Gyro-plasma probe	-	-	-	KASC	-	-	-	353	-	-
1966-S668	2439464.58	1966 Dec 5 0200	Kappa 9M	-	K-9M-21	Gyro-plasma probe	-	-	-	KASC	-	-	-	326	-	-
1966-S677	2439469.98	1966 Dec 10 1130	Kappa 10	-	K-10-2	-	-	-	-	KASC	-	-	-	253	-	-
1967-S91	2439521.59	1967 Jan 31 0205	Kappa 9M	-	K-9M-22	-	-	-	-	KASC	-	-	-	327	-	-
1967-S146	2439556.96	1967 Mar 7 1100	Kappa 10	-	K-10-3	FUV Stellar Phot	-	-	-	KASC	-	-	-	248	-	-
1969-S56	2440229.59	1969 Jan 8 0210	Kappa 9M	-	K-9M-25	Gyro-plasma probe	-	-	-	KASC	-	-	-	343	-	-
1969-S57	2440230.82	1969 Jan 9 0740	Kappa 8	-	K-8-15	E field antenna	-	-	-	KASC	-	-	-	188	-	-
1969-S62	2440233.72	1969 Jan 12 0510	Kappa 10C	-	K-10C-1	Stability test	-	-	-	KASC	-	-	-	229	-	-
1969-S66	2440235.92	1969 Jan 14 1000	Kappa 10	-	K-10-4	-	-	-	-	KASC	-	-	-	229	-	-
1969-S74	2440241.00	1969 Jan 19 1200	Kappa 9M	-	K-9M-24	Gyro-plasma probe	-	-	-	KASC	-	-	-	340	-	-
1969-S132	2440265.59	1969 Feb 13 0205	Kappa 9M	-	K-9M-23	-	-	-	-	KASC	-	-	-	310	-	-
1969-S130	2440265.50	1969 Feb 13	Kappa 10	-	PT-420-001	TVC test (1-stage)	-	-	-	KASC	-	-	-	16	-	-
1969-S447	2440441.01	1969 Aug 7 1215	Kappa 9M	-	K-9M-27	XR sources	-	-	-	KASC	-	-	-	340	-	-
1969-S467	2440457.84	1969 Aug 24 0804	Kappa 9M	-	K-9M-26	Radio noise	-	-	-	KASC	-	-	-	341	-	-
1969-S485	2440470.98	1969 Sep 6 1135	Kappa 10	-	K-10-5	Zodi. light	-	-	-	KASC	-	-	-	247	-	-
1969-S521	2440490.50	1969 Sep 26	Kappa 10C	-	K-10C-2	TVC test	-	-	-	KASC	-	-	-	10?	-	-
1970-S84	2440611.71	1970 Jan 25 0500	Kappa 9M	-	K-9M-28	Te probe	-	-	-	KASC	-	-	-	369	-	-
1970-S86	2440613.93	1970 Jan 27 1020	Kappa 9M	-	K-9M-29	Te probe	-	-	-	KASC	-	-	-	357	-	-
1970-S503	2440831.93	1970 Sep 2 1014	Kappa 8	-	K-8-16	Na/ne	-	-	-	KASC	-	-	-	174	-	-
1970-S517	2440842.50	1970 Sep 13	Kappa 10C	-	K-10C-3	TVC test	-	-	-	KASC	-	-	-	160	-	-
1970-S536	2440856.78	1970 Sep 27 0642	Kappa 9M	-	K-9M-32	B field/Te probe	-	-	-	KASC	-	-	-	346	-	-
1971-S67	2440967.80	1971 Jan 16 0715	Kappa 9M	-	K-9M-30	Te probe	-	-	-	KASC	-	-	-	357	-	-
1971-S82	2440975.06	1971 Jan 23 1320	Kappa 9M	-	K-9M-35	-	-	-	-	KASC	-	-	-	338	-	-
1971-S84	2440975.58	1971 Jan 24 0200	Kappa 9M	-	K-9M-34	Sco X-1/Te probe	-	-	-	KASC	-	-	-	328	-	-
1971-S393	2441182.00	1971 Aug 18 1200	Kappa 9M	-	K-9M-31	Sco X-1	-	-	-	KASC	-	-	-	330	-	-
1971-S403	2441184.01	1971 Aug 20 1210	Kappa 10	-	K-10-7	-	-	-	-	KASC	-	-	-	274	-	-
1971-A70	2441188.74	1971 Aug 25 0540	Kappa 9M	-	K-9M-36	-	-	-	-	KASC	-	-	-	0?	-	-
1971-S411	2441189.94	1971 Aug 26 1035	Kappa 9M	-	K-9M-33	Cs/Ba Release	-	-	-	KASC	-	-	-	340	-	-
1971-S424	2441195.59	1971 Sep 1 0210	Kappa 10	-	K-10-6	Solar UV	-	-	-	KASC	-	-	-	228	-	-
1972-S50	2441339.97	1972 Jan 23 1122	Kappa 9M	-	K-9M-37	-	-	-	-	KASC	-	-	-	340	-	-
1972-S84	2441365.89	1972 Feb 18 0928	Kappa 9M	-	K-9M-39	Cs Release	-	-	-	KASC	-	-	-	310	-	-
1972-S89	2441369.75	1972 Feb 22 0600	Kappa 9M	-	K-9M-38	-	-	-	-	KASC	-	-	-	352	-	-
1972-S304	2441572.97	1972 Sep 12 1110	Kappa 10	-	K-10-8	Fiberglass Casing	-	-	-	KASC	-	-	-	259	-	-
1972-S311	2441580.71	1972 Sep 20 0500	Kappa 9M	-	K-9M-40	-	-	-	-	KASC	-	-	-	326	-	-
1973-S20	2441701.88	1973 Jan 19 0900	Kappa 9M	-	K-9M-41	VLF	-	-	-	KASC	-	-	-	330	-	-
1973-S72	2441732.52	1973 Feb 19 0022	Kappa 10	-	K-10-9	-	-	-	-	KASC	-	-	-	236	-	-
1973-S81	2441736.90	1973 Feb 23 0938	Kappa 9M	-	K-9M-42	Cs Release	-	-	-	KASC	-	-	-	306	-	-
1973-S281	2441915.79	1973 Aug 21 0700	Kappa 9M	-	K-9M-43	-	-	-	-	KASC	-	-	-	355	-	-
1973-S286	2441922.00	1973 Aug 27 1200	Kappa 9M	-	K-9M-44	-	-	-	-	KASC	-	-	-	341	-	-
1973-S484	2441940.50	1973 Sep 15	Kappa 10C	-	K-10C-4	M-3C Stage Sep Test	-	-	-	KASC	-	-	-	100?	-	-
1973-S313	2441947.89	1973 Sep 22 0920	Kappa 10	-	K-10-10	-	-	-	-	KASC	-	-	-	242	-	-
1974-S61	2442063.58	1974 Jan 16 0200	Kappa 9M	-	K-9M-45	-	-	-	-	KASC	-	-	-	360	-	-
1974-S303	2442307.15	1974 Sep 16 1540	Kappa 9M	-	K-9M-46	Plasma gun M/D	-	-	-	KASC	-	-	-	336	-	-
1974-S306	2442309.58	1974 Sep 19 0200	Kappa 9M	-	K-9M-47	-	-	-	-	KASC	-	-	-	328	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S317	2442310.98	1974 Sep 20 1132	Kappa 9M	-	K-9M-48	Precip. Electrons	-	-	-	KASC	-	-	-	348	-	-
1975-S38	2442429.90	1975 Jan 17 0935	Kappa 9M	-	K-9M-49	Airglow	-	-	-	KASC	-	-	-	363	-	-
1975-S45	2442435.96	1975 Jan 23 1105	Kappa 9M	-	K-9M-50	-	-	-	-	KASC	-	-	-	353	-	-
1975-S360	2442647.50	1975 Aug 23	Kappa 10C	-	K-10C-5	M-3S SRMC test	-	-	-	KASC	-	-	-	100?	-	-
1975-S255	2442650.94	1975 Aug 26 1040	Kappa 9M	-	K-9M-53	-	-	-	-	KASC	-	-	-	351	-	-
1975-S264	2442658.00	1975 Sep 2 1200	Kappa 9M	-	K-9M-51	-	-	-	-	KASC	-	-	-	311	-	-
1975-S281	2442679.00	1975 Sep 23 1200	Kappa 9M	-	K-9M-52	Soft XR	-	-	-	KASC	-	-	-	336	-	-
1975-S282	2442679.71	1975 Sep 24 0500	Kappa 10	-	K-10-11	-	-	-	-	KASC	-	-	-	196	-	-
1976-S59	2442794.38	1976 Jan 16 2100	Kappa 9M	-	K-9M-54	-	-	-	-	KASC	-	-	-	367	-	-
1976-S61	2442795.72	1976 Jan 18 0520	Kappa 10	-	K-10-12	-	-	-	-	KASC	-	-	-	350	-	-
1976-S274	2443021.33	1976 Aug 30 1955	Kappa 9M	-	K-9M-57	-	-	-	-	KASC	-	-	-	288	-	-
1976-S291	2443037.58	1976 Sep 16 0200	Kappa 9M	-	K-9M-55	-	-	-	-	KASC	-	-	-	359	-	-
1976-S293	2443039.92	1976 Sep 18 1000	Kappa 9M	-	K-9M-56	-	-	-	-	KASC	-	-	-	300?	-	-
1977-S43	2443160.03	1977 Jan 16 1245	Kappa 9M	-	K-9M-58	NIR Galactic Plane	-	-	-	KASC	-	-	-	324	-	-
1977-S240	2443389.92	1977 Sep 3 1000	Kappa 9M	-	K-9M-59	-	-	-	-	KASC	-	-	-	376	-	-
1977-S249	2443401.02	1977 Sep 14 1222	Kappa 10	-	K-10-13	-	-	-	-	KASC	-	-	-	204	-	-
1978-S49	2443530.58	1978 Jan 22 0200	Kappa 9M	-	K-9M-62	-	-	-	-	KASC	-	-	-	369	-	-
1978-S50	2443535.96	1978 Jan 27 1100	Kappa 9M	-	K-9M-61	-	-	-	-	KASC	-	-	-	292	-	-
1978-S74	2443565.96	1978 Feb 26 1100	Kappa 9M	-	K-9M-60	-	-	-	-	KASC	-	-	-	340	-	-
1978-S281	2443735.51	1978 Aug 15 0015	Kappa 9M	-	K-9M-63	-	-	-	-	KASC	-	-	-	354	-	-
1978-S198	2443740.98	1978 Aug 20 1130	Kappa 9M	-	K-9M-64	NIR Galactic Plane	-	-	-	KASC	-	-	-	319	-	-
1979-S36	2443890.37	1979 Jan 16 2050	Kappa 9M	-	K-9M-65	-	-	-	-	KASC	-	-	-	353	-	-
1979-S41	2443894.88	1979 Jan 21 0906	Kappa 9M	-	K-9M-66	-	-	-	-	KASC	-	-	-	336	-	-
1979-S188	2444103.79	1979 Aug 18 0700	Kappa 9M	-	K-9M-67	TED/TPI/NEL/PWN	-	-	-	KASC	-	-	-	365	-	-
1979-S200	2444127.54	1979 Sep 11 0100	Kappa 9M	-	K-9M-68	SUV/AUV/NEL/EPA	-	-	-	KASC	-	-	-	353	-	-
1980-S26	2444254.62	1980 Jan 16 0300	Kappa 9M	-	K-9M-69	TPE-1	-	-	-	KASC	-	-	-	328	-	-
1980-S158	2444477.99	1980 Aug 26 1140	Kappa 10	-	K-10-14	GIR/GXV/STS	-	-	-	KASC	-	-	-	219	-	-
1980-S166	2444484.94	1980 Sep 2 1040	Kappa 9M	-	K-9M-70	-	-	-	-	KASC	-	-	-	230	-	-
1980-S167	2444487.03	1980 Sep 4 1245	Kappa 9M	-	K-9M-71	-	-	-	-	KASC	-	-	-	308	-	-
1982-S34	2444984.89	1982 Jan 15 0920	Kappa 9M	-	K-9M-73	-	-	-	-	KASC	-	-	-	303	-	-
1982-S55	2445013.58	1982 Feb 13 0200	Kappa 9M	-	K-9M-72	-	-	-	-	KASC	-	-	-	328	-	-
1982-S57	2445019.03	1982 Feb 18 1240	Kappa 9M	-	K-9M-74	-	-	-	-	KASC	-	-	-	315	-	-
1982-S163	2445226.02	1982 Sep 13 1230	Kappa 9M	-	K-9M-75	NIR Background	-	-	-	KASC	-	-	-	320	-	-
1983-S47	2445349.36	1983 Jan 14 2040	Kappa 9M	-	K-9M-76	-	-	-	-	KASC	-	-	-	349	-	-
1984-S41	2445713.31	1984 Jan 13 1930	Kappa 9M	-	K-9M-77	CIR	-	-	-	KASC	-	-	-	317	-	-
1985-S119	2446323.11	1985 Sep 14 1440	Kappa 9M	-	K-9M-78	CBR	-	-	-	KASC	-	-	-	297	-	-
1986-S18	2446461.83	1986 Jan 31 0800	Kappa 9M	-	K-9M-79	-	-	-	-	KASC	-	-	-	319	-	-
1987-S55	2446849.12	1987 Feb 22 1500	Kappa 9M	-	K-9M-80	CBR	-	-	-	KASC	-	-	-	317	-	-
1988-S47	2447185.58	1988 Jan 25 0200	Kappa 9M	-	K-9M-81	COREX	-	-	-	KASC	-	-	-	359	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-M38	2436890.71	1959 Nov 18 0503	Kappa 7	-	K-7-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS4	-	-
1960-A309	2437021.50	1960 Mar 28	Kappa 8	-	K-8D-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS2	-	-
1960-S169	2437126.68	1960 Jul 11 0424	Kappa 8	-	K-8-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	ISTS3	-
1960-S179	2437132.67	1960 Jul 17 0411	Kappa 8	-	K-8-2	0.000	ISAS	SS	-	ISAS/RRL/Hirao	Test	TT-F303	ISTS4	-
1960-S280	2437199.77	1960 Sep 22 0632	Kappa 8	-	K-8-3	0.000	ISAS	SS	-	ISAS/RRL/Hirao	Ionos	TT-F303	SR2,1215	-
1960-S287	2437203.98	1960 Sep 26 1125	Kappa 8	-	K-8-4	0.000	ISAS	SS	-	ISAS/RRL/Hirao	Ionos	TT-F303	SR2,1215	-
1961-S93	2437385.67	1961 Mar 27 0408	Kappa 8	-	K-8-5	0.000	ISAS	SS	-	ISAS/RRL/Hirao	Ionos	TT-F303	-	-
1961-S99	2437390.64	1961 Apr 1 0325	Kappa 9L	-	K-9L-1	0.000	ISAS	SS	-	ISAS/	Test	TT-F303	-	-
1961-S112	2437408.02	1961 Apr 18 1227	Kappa 8	-	K-8-6	0.000	ISAS	SS	-	TAO/TOK/Nakamura	Ionos	TT-F303	-	-
1961-S215	2437501.61	1961 Jul 21 0242	Kappa 8	-	K-8-7	0.000	ISAS	SS	-	ISAS/KYO/Hirao,Oya	Aeron/Ionos	TT-F303	-	-
1961-S348	2437596.67	1961 Oct 24 0359	Kappa 8	-	K-8-8	0.000	ISAS	SS	-	ISAS/Hirao	Ionos	TT-F303	-	-
1961-S361	2437602.97	1961 Oct 30 1113	Kappa 8	-	K-8-9	0.000	ISAS	SS	-	ISAS/Hirao	Ionos	TT-F303	-	-
1961-S439	2437659.71	1961 Dec 26 0505	Kappa 9L	-	K-9L-2	0.000	ISAS	SS	-	ISAS/Ichimaya	Test	TT-F303	-	-
1962-A83	2437808.95	1962 May 24 1050	Kappa 8	-	K-8-10	0.000	ISAS	SF	U	RRL/Miyazaki	Ionos	TT-F303	-	-
1962-M34	2437993.58	1962 Nov 25 0201	Kappa 9M	-	K-9M-1	0.000	ISAS	SF	U	ISAS/Hirao	Ionos	TT-F303	-	-
1962-S569	2438016.71	1962 Dec 18 0503	Kappa 8	-	K-8-11	0.000	ISAS	SS	-	TAO/Takakura	Cosmic rays	TT-F303	-	-
1963-S218	2438169.59	1963 May 20 0209	Kappa 9M	-	K-9M-2	0.000	ISAS	SS	-	TAO/Takakura	Ionos	TT-F303	-	-
1964-S389	2438605.92	1964 Jul 29 1007	Kappa 9M	-	K-9M-5	0.000	ISAS	SS	-	ISAS/	CR	WDCRF	-	-
1964-S581	2438704.63	1964 Nov 5 0301	Kappa 9M	-	K-9M-4	0.000	ISAS	SS	-	ISAS/	Ionos	JRRL13,75	-	-
1965-S43	2438782.72	1965 Jan 22 0514	Kappa 9M	-	K-9M-3	0.000	ISAS	SS	-	ISAS/	Ionos?	ISTS6-8	-	-
1965-S81	2438797.71	1965 Feb 6 0501	Kappa 9M	-	K-9M-7	0.000	ISAS	SS	-	OSAKA/Oshio	Ionos	JRRL13,75	-	-
1965-S82	2438797.92	1965 Feb 6 1002	Kappa 9M	-	K-9M-6	0.000	ISAS	SS	-	TAO/Tsuchiya	Solar RF	WDCRF	-	-
1965-S193	2438844.97	1965 Mar 25 1121	Kappa 9M	-	K-9M-8	0.000	ISAS	SS	-	TAO/Tanabe,Hiruhata	Aeron/Ionos	ISRJ20-223	JRRL13,75	-
1965-S200	2438846.71	1965 Mar 27 0501	Kappa 9M	-	K-9M-9	0.000	ISAS	SS	-	TOK/Tohmatsu	Ionos	JRRL13,75	PlanSpaceSci13,1273	-
1965-S202	2438847.79	1965 Mar 28 0701	Kappa 9M	-	K-9M-10	0.000	ISAS	SS	-	KYO/Yabuzaki	Ionos/Plasma	WDCRF	-	-
1965-S426	2438957.95	1965 Jul 16 1050	Kappa 8	-	K-8-12	0.000	ISAS	SS	-	TOK/Nakamura	Aeron/Ionos	WDCRF	-	-
1965-S435	2438968.00	1965 Jul 26 1201	Kappa 9M	-	K-9M-12	0.000	ISAS	SS	-	ISAS/TAO/Matsuoka,Tanabe	Opt Astron/XR Astron	ISRJ20-480	SoPh2,240/SSR5,109	-
1965-S437	2438968.63	1965 Jul 27 0310	Kappa 9M	-	K-9M-13	0.000	ISAS	SS	-	TOKAI/Aoyama	Ionos	ISRJ20-199	-	-
1965-S445	2438979.50	1965 Aug 7	Kappa 8	-	K-8(L)	0.000	ISAS	SS	-	ISAS/	Aeron	SP-4006	-	-
1965-S464	2438983.57	1965 Aug 11 0135	Kappa 8	-	K-8(L)-4	0.000	ISAS	SS	-	LAPAN/Kusumanto,Baiquni	Aeron/Ionos/Fields	SR8-346	SP-4006	-
1965-S469	2438989.50	1965 Aug 17 0005:00	Kappa 8	-	K-8(L)	0.000	ISAS	SS	-	LAPAN/Karjoto,Pringgd.	Aeron	SR9-393	WDCRF	-
1965-S483	2439000.58	1965 Aug 28 0202	Kappa 10S	-	K-10S-1	0.000	ISAS	SS	-	ISAS/Hirao	Ionos	JRRL13,75	SRVII	-
1965-S539	2439037.62	1965 Oct 4 0300	Kappa 9M	-	K-9M-14	0.000	ISAS	SS	-	KYO/Oya	Ionos	JRRL13,75	-	-
1965-S601	2439072.71	1965 Nov 8 0505	Kappa 10	-	K-10-1	0.000	ISAS	SS	-	ISAS/	Test/Ionos	ISTS6-8	-	-
1965-S677	2439107.76	1965 Dec 13 0620	Kappa 9M	-	K-9M-16	0.000	ISAS	SS	-	OSAKA/Oshio	Ionos/Aeron	JRRL13,75	-	-
1965-S689	2439112.75	1965 Dec 18 0600	Kappa 9M	-	K-9M-17	0.000	ISAS	SS	-	DOSH/NAG/Yamaguchi	Ionos	WDCRF	-	-
1966-S177	2439205.01	1966 Mar 20 1215	Kappa 9M	-	K-9M-15	0.000	ISAS	SS	-	RRL/TAO/NAG/Shiro,Tanabe	XR Astron	ISRJ20-480	-	-
1966-S225	2439236.00	1966 Apr 20 1205	Kappa 8	-	K-8-13	0.000	ISAS	SS	-	TOK/Kimura	Aeron/Plasma/Fields	WDCRF	-	-
1966-S375	2439323.59	1966 Jul 17 0210	Kappa 9M	-	K-9M-18	0.000	ISAS	SS	-	TOK/Tohmatsu	Ionos/Solar/Solar UV	WDCRF	-	-
1966-S413	2439340.58	1966 Aug 3 0200	Kappa 9M	-	K-9M-11	0.000	ISAS	SS	-	ISAS/	Meteo	ISTS7	NYT660804	-
1966-S433	2439348.03	1966 Aug 10 1237	Kappa 9M	-	K-9M-19	0.000	ISAS	SS	-	KYO/Kimura	Ionos/Aeron	WDCRF	SR8-305	-
1966-S549	2439418.60	1966 Oct 20 0220	Kappa 8	-	K-8-14	0.000	ISAS	SS	-	TOKAI/Aoyama	Ionos/Fields/Solar UV	WDCRF	-	-
1966-S550	2439418.85	1966 Oct 20 0825	Kappa 9M	-	K-9M-20	0.000	ISAS	SS	-	KYO/TOK/Oya,Tohmatsu	Ionos	ISRJ21-9	SR8-332	-
1966-S668	2439464.58	1966 Dec 5 0200	Kappa 9M	-	K-9M-21	0.000	ISAS	SS	-	ISAS/KYO/Tohmatsu	Aeron/Ionos/Solar UV	WDCRF	SR8-332	-
1966-S677	2439469.98	1966 Dec 10 1130	Kappa 10	-	K-10-2	0.000	ISAS	SS	-	TAO/Tanabe	Aeron/Solar UV	WDCRF	-	-
1967-S91	2439521.59	1967 Jan 31 0205	Kappa 9M	-	K-9M-22	0.000	ISAS	SS	-	NAG/Yamaguchi	Ionos/Solar RF	WDCRF	-	-
1967-S146	2439556.96	1967 Mar 7 1100	Kappa 10	-	K-10-3	0.000	ISAS	SS	-	TAO/NAG/Tanabe,Yamas.	UV Astron,Solar X	WDCRF	ApSS2,4	-
1969-S56	2440229.59	1969 Jan 8 0210	Kappa 9M	-	K-9M-25	0.000	ISAS	SS	-	TOK/Kimura	Ionos/CR/Fields	WDCRF	SR10,707	-
1969-S57	2440230.82	1969 Jan 9 0740	Kappa 8	-	K-8-15	0.000	ISAS	SS	-	TOKAI/Aoyama	Ionos/Fields	WDCRF	SR10,707	-
1969-S62	2440233.72	1969 Jan 12 0510	Kappa 10C	-	K-10C-1	0.000	ISAS	SS	-	ISAS/TOK/Tohmatsu	Aeron/Solar UV/Test	WDCRF	SR11,849	-
1969-S66	2440235.92	1969 Jan 14 1000	Kappa 10	-	K-10-4	0.000	ISAS	SS	-	NAG/Hayakawa	IR/XR Astron/Solar UV	SR10,248	PASJ25,375	-
1969-S74	2440241.00	1969 Jan 19 1200	Kappa 9M	-	K-9M-24	0.000	ISAS	SS	-	TAO/Tanabe	Aeron/Ionos/Fields/	WDCRF	SR10,707	-
1969-S132	2440265.59	1969 Feb 13 0205	Kappa 9M	-	K-9M-23	0.000	ISAS	SS	-	OSAKA/Higashino	Fields/Solar UV	WDCRF	-	-
1969-S130	2440265.50	1969 Feb 13	Kappa 10	-	PT-420-001	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	ISTS8	-
1969-S447	2440441.01	1969 Aug 7 1215	Kappa 9M	-	K-9M-27	0.000	ISAS	SS	-	KYO/Oya	Ionos/Plasma/XR Astron	WDCRF	ApSpSci12,378	-
1969-S467	2440457.84	1969 Aug 24 0804	Kappa 9M	-	K-9M-26	0.000	ISAS	SS	-	NAG/Kamada,Hayakawa	Ionos/Fields	WDCRF	PlanSpaSci22,638	-
1969-S485	2440470.98	1969 Sep 6 1135	Kappa 10	-	K-10-5	0.000	ISAS	SS	-	TOK/Nakamura	Ionos/Astron	ISST9	-	-
1969-S521	2440490.50	1969 Sep 26	Kappa 10C	-	K-10C-2	0.000	ISAS	SF	U	ISAS/	Test	ISST9	-	-
1970-S84	2440611.71	1970 Jan 25 0500	Kappa 9M	-	K-9M-28	0.000	ISAS	SS	-	ISAS/RRL/Oyama,Suitsu	Ionos/Aeron	WDCRF	SR11,849	-
1970-S86	2440613.93	1970 Jan 27 1020	Kappa 9M	-	K-9M-29	0.000	ISAS	SS	-	ISAS/KYO/Hirao,Matsumoto	Ionos	WDCRF	SR12,1335	-
1970-S503	2440831.93	1970 Sep 2 1014	Kappa 8	-	K-8-16	0.000	ISAS	SS	-	ISAS/TOK/Nakamura	Ionos/Release	SR12,1329	ISTS13,1505	-
1970-S517	2440842.50	1970 Sep 13	Kappa 10C	-	K-10C-3	0.000	ISAS	SS	-	ISAS/	Test	ISST9	-	-
1970-S536	2440856.78	1970 Sep 27 0642	Kappa 9M	-	K-9M-32	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	SR12,1335	-
1971-S67	2440967.80	1971 Jan 16 0715	Kappa 9M	-	K-9M-30	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	SR12,1335	-
1971-S82	2440975.06	1971 Jan 23 1320	Kappa 9M	-	K-9M-35	0.000	ISAS	SS	-	KYO/Mastumoto.H	Ionos	WDCRF	SR14,369	-
1971-S84	2440975.58	1971 Jan 24 0200	Kappa 9M	-	K-9M-34	0.000	ISAS	SS	-	ISAS/	XR Astron/Solar UV/Ionos	WDCRF	ISST9	-
1971-S393	2441182.00	1971 Aug 18 1200	Kappa 9M	-	K-9M-31	0.000	ISAS	SS	-	ISAS/OSAKA/Miyamoto,Oda	XR Astron	WDCRF	AAp65,329	-
1971-S403	2441184.01	1971 Aug 20 1210	Kappa 10	-	K-10-7	0.000	ISAS	SS	-	ISAS/	Opt Astron	WDCRF	-	-
1971-A70	2441188.74	1971 Aug 25 0540	Kappa 9M	-	K-9M-36	0.000	ISAS	SF	U	ISAS/	Ionos	ISTS10	-	-
1971-S411	2441189.94	1971 Aug 26 1035	Kappa 9M	-	K-9M-33	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1971-S424	2441195.59	1971 Sep 1 0210	Kappa 10	-	K-10-6	0.000	ISAS	SS	-	TAO/Nishi	Solar UV	WDCRF	SolarPhys33,23	-
1972-S50	2441339.97	1972 Jan 23 1122	Kappa 9M	-	K-9M-37	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1972-S84	2441365.89	1972 Feb 18 0928	Kappa 9M	-	K-9M-39	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1972-S89	2441369.75	1972 Feb 22 0600	Kappa 9M	-	K-9M-38	0.000	ISAS	SS	-	ISAS/TOK/Tohmatsu	Aeron/Ionos	WDCRF	SR14,177	-
1972-S304	2441572.97	1972 Sep 12 1110	Kappa 10	-	K-10-8	0.000	ISAS	SS	-	ISAS/	IR Astron/XR Astron	WDCRF	-	-
1972-S311	2441580.71	1972 Sep 20 0500	Kappa 9M	-	K-9M-40	0.000	ISAS	SS	-	ISAS/Mukai	Ionos	WDCRF	JGR78,8395	-
1973-S20	2441701.88	1973 Jan 19 0900	Kappa 9M	-	K-9M-41	0.000	ISAS	SS	-	KYO/Matsumoto.H	Ionos/Active plasma	ISRJ28-89	SR14,370	-
1973-S72	2441732.52	1973 Feb 19 0022	Kappa 10	-	K-10-9	0.000	ISAS	SS	-	TAO/Nishi	Aeron/Ionos/Solar UV	WDCRF	SolarPhys42,37	-
1973-S81	2441736.90	1973 Feb 23 0938	Kappa 9M	-	K-9M-42	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1973-S281	2441915.79	1973 Aug 21 0700	Kappa 9M	-	K-9M-43	0.000	ISAS	SS	-	ISAS/	Plasma/Ionos	SRctCon2	-	-
1973-S286	2441922.00	1973 Aug 27 1200	Kappa 9M	-	K-9M-44	0.000	ISAS	SS	-	NAG/Hayakawa	XR Astron	SRctCon2	ApSS42,169	-
1973-S484	2441940.50	1973 Sep 15	Kappa 10C	-	K-10C-4	0.000	ISAS	SS	-	ISAS/	Test	ISAS-Doc316	-	-
1973-S313	2441947.89	1973 Sep 22 0920	Kappa 10	-	K-10-10	0.000	ISAS	SS	-	ISAS/TOK/Sasaki	XR Astron/Ionos	SRctCon2	-	-
1974-S61	2442063.58	1974 Jan 16 0200	Kappa 9M	-	K-9M-45	0.000	ISAS	SS	-	ISAS/Hirao	Iono-solar	SRctCon2	PlanSpaceSci27,183	-
1974-S303	2442307.15	1974 Sep 16 1540	Kappa 9M	-	K-9M-46	0.000	ISAS	SS	-	ISAS/	Ionos	ISRJ29-1	-	-
1974-S306	2442309.58	1974 Sep 19 0200	Kappa 9M	-	K-9M-47	0.000	ISAS	SS	-	ISAS/	Ionos	ISRJ29-1	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S317	2442310.98	1974 Sep 20 1132	Kappa 9M	-	K-9M-48	0.000	ISAS	SS	-	ISAS/	Ionos/XUV	ISRJ29-1	SR16,491	-
1975-S38	2442429.90	1975 Jan 17 0935	Kappa 9M	-	K-9M-49	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	ISRJ29-1	-	-
1975-S45	2442435.96	1975 Jan 23 1105	Kappa 9M	-	K-9M-50	0.000	ISAS	SS	-	NAG/Iwanami	XR Astron	ISRJ29-1	ApSS61,217	-
1975-S360	2442647.50	1975 Aug 23	Kappa 10C	-	K-10C-5	0.000	ISAS	SS	-	ISAS/	Test	AsianAlmanac14	ISASBul116,251,8610	-
1975-S255	2442650.94	1975 Aug 26 1040	Kappa 9M	-	K-9M-53	0.000	ISAS	SS	-	ISAS/	Ionos	ISRJ30-1	-	-
1975-S264	2442658.00	1975 Sep 2 1200	Kappa 9M	-	K-9M-51	0.000	ISAS	SS	-	ISAS/	Ionos	ISRJ30-1	-	-
1975-S281	2442679.00	1975 Sep 23 1200	Kappa 9M	-	K-9M-52	0.000	ISAS	SS	-	ISAS/	XR Astron	ISRJ30-1	-	-
1975-S282	2442679.71	1975 Sep 24 0500	Kappa 10	-	K-10-11	0.000	ISAS	SS	-	ISAS/	XR Astron/Solar UV	ISRJ30-1	-	-
1976-S59	2442794.38	1976 Jan 16 2100	Kappa 9M	-	K-9M-54	0.000	ISAS	SS	-	ISAS/Hirao	Magnetospheric	ISRJ30-1	PlanSpaceSci27,13	-
1976-S61	2442795.72	1976 Jan 18 0520	Kappa 10	-	K-10-12	0.000	ISAS	SS	-	ISAS/Obayashi	Ionos	ISRJ30-1	-	-
1976-S274	2443021.33	1976 Aug 30 1955	Kappa 9M	-	K-9M-57	0.000	ISAS	SS	-	ISAS/Kawashima	Ionos/Fields	WDCRF	-	-
1976-S291	2443037.58	1976 Sep 16 0200	Kappa 9M	-	K-9M-55	0.000	ISAS	SS	-	ISAS/Hirao	Ionos/Fields	WDCRF	PlanSpaceSci27,183	-
1976-S293	2443039.92	1976 Sep 18 1000	Kappa 9M	-	K-9M-56	0.000	ISAS	SS	-	ISAS/	Ionos/Fields	SRJ	-	-
1977-S43	2443160.03	1977 Jan 16 1245	Kappa 9M	-	K-9M-58	0.000	ISAS	SS	-	NAG/Hayakawa	IR Astron/Ionos	WDCRF	PASJ30,369	-
1977-S240	2443389.92	1977 Sep 3 1000	Kappa 9M	-	K-9M-59	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos/Solar EUV	WDCRF	-	-
1977-S249	2443401.02	1977 Sep 14 1222	Kappa 10	-	K-10-13	0.000	ISAS	SS	-	ISAS/	UV Astron/EUV Astron	WDCRF	-	-
1978-S49	2443530.58	1978 Jan 22 0200	Kappa 9M	-	K-9M-62	0.000	ISAS	SS	-	ISAS/	Ionos/Fields/Solar	WDCRF	PlanSpaceSci33,875	-
1978-S50	2443535.96	1978 Jan 27 1100	Kappa 9M	-	K-9M-61	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos/Plasma	WDCRF	-	-
1978-S74	2443565.96	1978 Feb 26 1100	Kappa 9M	-	K-9M-60	0.000	ISAS	SS	-	ISAS/	UV Astron/EUV Astron	WDCRF	-	-
1978-S281	2443735.51	1978 Aug 15 0015	Kappa 9M	-	K-9M-63	0.000	ISAS	SS	-	ISAS/	Ionos?	FDC	-	PL fail
1978-S198	2443740.98	1978 Aug 20 1130	Kappa 9M	-	K-9M-64	0.000	ISAS	SS	-	NAG/Noguchi	Test/IR Astron/UV Astron	WDCRF	PASJ33,583	-
1979-S36	2443890.37	1979 Jan 16 2050	Kappa 9M	-	K-9M-65	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	WDCRF	-	-
1979-S41	2443894.88	1979 Jan 21 0906	Kappa 9M	-	K-9M-66	0.000	ISAS	SS	-	ISAS/	Test/Aeron/Ionos/Pl	WDCRF	-	-
1979-S188	2444103.79	1979 Aug 18 0700	Kappa 9M	-	K-9M-67	0.000	ISAS	SS	-	ISAS/Oyama,Hirao	Ionos	SRJ	PlanSpaceSci33,875	-
1979-S200	2444127.54	1979 Sep 11 0100	Kappa 9M	-	K-9M-68	0.000	ISAS	SS	-	ISAS/	Ionos/Solar UV	SRJ	-	-
1980-S26	2444254.62	1980 Jan 16 0300	Kappa 9M	-	K-9M-69	0.000	ISAS	SS	-	ISAS/USU/Kawashima,Will.	Ionos/Tether	SRJ	AdvAstSci62-497	-
1980-S158	2444477.99	1980 Aug 26 1140	Kappa 10	-	K-10-14	0.000	ISAS	SS	-	ISAS/	XR Astron/IR Astron	SRJ	-	-
1980-S166	2444484.94	1980 Sep 2 1040	Kappa 9M	-	K-9M-70	0.000	ISAS	SS	-	ISAS/	Test/Aeron/Ionos	SRJ	-	-
1980-S167	2444487.03	1980 Sep 4 1245	Kappa 9M	-	K-9M-71	0.000	ISAS	SS	-	ISAS/Nakamura	Aeron?	SRJ	-	-
1982-S34	2444984.89	1982 Jan 15 0920	Kappa 9M	-	K-9M-73	0.000	ISAS	SS	-	ISAS/	Ionos	SRJ	-	-
1982-S55	2445013.58	1982 Feb 13 0200	Kappa 9M	-	K-9M-72	0.000	ISAS	SS	-	ISAS/	Test/Ionos/Plasma/F	SRJ	-	-
1982-S57	2445019.03	1982 Feb 18 1240	Kappa 9M	-	K-9M-74	0.000	ISAS	SS	-	ISAS/	UV/XR Astron	SRJ	-	-
1982-S163	2445226.02	1982 Sep 13 1230	Kappa 9M	-	K-9M-75	0.000	ISAS	SS	-	NAG/Matsumoto	IR Astron	SRJ	ASR3,10,469	-
1983-S47	2445349.36	1983 Jan 14 2040	Kappa 9M	-	K-9M-76	0.000	ISAS	SS	-	RIKEN/Amemiya,Tanabe	Aeron/Ionos	SRJ	PlanSpaceSci33,875	-
1984-S41	2445713.31	1984 Jan 13 1930	Kappa 9M	-	K-9M-77	0.000	ISAS	SS	-	NAG/Matsumoto	IR Astron	SRJ	ApJ332,575	-
1985-S119	2446323.11	1985 Sep 14 1440	Kappa 9M	-	K-9M-78	0.000	ISAS	SS	-	NAG/UCB/Matsu.,Lange	Submm Astron	SRJ	-	-
1986-S18	2446461.83	1986 Jan 31 0800	Kappa 9M	-	K-9M-79	0.000	ISAS	SS	-	ISAS/UNK?/Kaya	Ionos	SRJ	-	-
1987-S55	2446849.12	1987 Feb 22 1500	Kappa 9M	-	K-9M-80	0.000	ISAS	SS	-	NAG/UCB/Matsu.,Lange	Submm Astron	SRJ	ApJ329,567	-
1988-S47	2447185.58	1988 Jan 25 0200	Kappa 9M	-	K-9M-81	0.000	ISAS	SS	-	ISAS/BOCH/Oyama,Piel	Ionos	SRJ	ESA-SP291-24	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-A16	2447425.50	1988 Sep 21	HIMES Rockoon	-	RFT-1	HIMES RFT-1	-	-	-	KASC	-	-	-	18	-	-
1992-M01	2448667.46	1992 Feb 14 2300	HIMES Rockoon	-	RFT-2	HIMES RFT-2	-	-	-	KASC	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-A16	2447425.50	1988 Sep 21	HIMES Rockoon	-	RFT-1	0.000	ISAS	TF	U	-	Test	AIAA-92-5053	-	-
1992-M01	2448667.46	1992 Feb 14 2300	HIMES Rockoon	-	RFT-2	0.000	ISAS	TS	-	-	Test	AIAA-92-5053	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-A102	2458705.36	2019 Aug 9 2034	Hwasong-11Na	-	KN-ATACMS	-	-	-	-	HAMH	-	-	-	48	400	-
2019-A103	2458705.37	2019 Aug 9 2050	Hwasong-11Na	-	-	-	-	-	-	HAMH	-	-	-	48	400	-
2019-A104	2458711.46	2019 Aug 15 2301	Hwasong-11Na	-	-	-	-	-	-	TONGC	-	-	-	30	230	-
2019-A105	2458711.47	2019 Aug 15 2316	Hwasong-11Na	-	-	-	-	-	-	TONGC	-	-	-	30	230	-
2020-M04	2458929.41	2020 Mar 20 2145	Hwasong-11Na	-	-	-	-	-	-	SONCH	-	-	-	50	410	-
2020-M05	2458929.41	2020 Mar 20 2150	Hwasong-11Na	-	-	-	-	-	-	SONCH	-	-	-	50	410	-
2022-A03	2459596.49	2022 Jan 16 2350	Hwasong-11Na	-	-	-	-	-	-	SUNAN	-	-	-	42	380	-
2022-A04	2459596.50	2022 Jan 16 2354	Hwasong-11Na	-	-	-	-	-	-	SUNAN	-	-	-	42	380	-
2022-A15	2459735.56	2022 Jun 5 0130?	Hwasong-11Na	-	-	-	-	-	-	SUNAN	-	-	-	42?	380?	-
2022-A16	2459735.56	2022 Jun 5 0130?	Hwasong-11Na	-	-	-	-	-	-	SUNAN	-	-	-	42?	380?	-
2023-M08	2460187.11	2023 Aug 30 1438	Hwasong-11Na	-	-	-	-	-	-	SUNAN?	-	-	-	50	350	-
2023-M09	2460187.12	2023 Aug 30 1446	Hwasong-11Na	-	-	-	-	-	-	SUNAN?	-	-	-	50	400	-
2023-M10	2460200.61	2023 Sep 13 0243	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	350	-
2023-M11	2460200.62	2023 Sep 13 0253	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	650	-
2024-M03	2460387.45	2024 Mar 17 2242	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	300	-
2024-M04	2460387.46	2024 Mar 17 2300?	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	300	-
2024-M05	2460387.47	2024 Mar 17 2322	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	300	-
2024-M07	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	360	-
2024-M08	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	360	-
2024-M09	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	-	-	-	-	SUNAN	-	-	-	50	360	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-A102	2458705.36	2019 Aug 9 2034	Hwasong-11Na	-	KN-ATACMS	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A103	2458705.37	2019 Aug 9 2050	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A104	2458711.46	2019 Aug 15 2301	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A105	2458711.47	2019 Aug 15 2316	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2020-M04	2458929.41	2020 Mar 20 2145	Hwasong-11Na	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-M05	2458929.41	2020 Mar 20 2150	Hwasong-11Na	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A03	2459596.49	2022 Jan 16 2350	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2022-A04	2459596.50	2022 Jan 16 2354	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2022-A15	2459735.56	2022 Jun 5 0130?	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2022-A16	2459735.56	2022 Jun 5 0130?	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2023-M08	2460187.11	2023 Aug 30 1438	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2023-M09	2460187.12	2023 Aug 30 1446	Hwasong-11Na	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2023-M10	2460200.61	2023 Sep 13 0243	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2023-M11	2460200.62	2023 Sep 13 0253	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M03	2460387.45	2024 Mar 17 2242	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M04	2460387.46	2024 Mar 17 2300?	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M05	2460387.47	2024 Mar 17 2322	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M07	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M08	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2024-M09	2460565.42	2024 Sep 11 2210?	Hwasong-11Na	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-S46	2458719.41	2019 Aug 23 2145	KN-25	-	-	-	-	-	-	SONDOK	-	-	-	97	380	-
2019-S47	2458719.42	2019 Aug 23 2202	KN-25	-	-	-	-	-	-	SONDOK	-	-	-	97	380	-
2019-A106	2458736.41	2019 Sep 9 2153	KN-25	-	-	-	-	-	-	KAECH	-	-	-	55?	330	-
2019-A107	2458736.42	2019 Sep 9 2212	KN-25	-	-	-	-	-	-	KAECH	-	-	-	55?	330	-
2019-S68	2458787.82	2019 Oct 31 0735	KN-25	-	-	-	-	-	-	PUKCH?	-	-	-	90	370	-
2019-S69	2458787.82	2019 Oct 31 0738	KN-25	-	-	-	-	-	-	PUKCH?	-	-	-	90	370	-
2019-S76	2458815.83	2019 Nov 28 0759	KN-25	-	-	-	-	-	-	RYONPO	-	-	-	97	380	-
2019-S77	2458815.83	2019 Nov 28 0759	KN-25	-	-	-	-	-	-	RYONPO	-	-	-	97	380	-
2020-A05	2458910.65	2020 Mar 2 0337	KN-25	-	-	-	-	-	-	WONSAN	-	-	-	35	230	-
2020-A06	2458910.65	2020 Mar 2 0337	KN-25	-	-	-	20s salvo	-	-	WONSAN	-	-	-	35	230	-
2020-M01	2458917.45	2020 Mar 8 2246	KN-25	-	-	-	-	-	-	SONDOK	-	-	-	50	200	-
2020-M02	2458917.45	2020 Mar 8 2246	KN-25	-	-	-	-	-	-	SONDOK	-	-	-	50	200	-
2020-M03	2458917.45	2020 Mar 8 2246	KN-25	-	-	-	-	-	-	SONDOK	-	-	-	50	200	-
2020-A07	2458937.38	2020 Mar 28 2110	KN-25	-	-	-	-	-	-	WONSAN	-	-	-	30	230	-
2020-A08	2458937.38	2020 Mar 28 2110	KN-25	-	-	-	-	-	-	WONSAN	-	-	-	30	230	-
2022-S32	2459711.81	2022 May 12 0729	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	90	360	-
2022-S33	2459711.81	2022 May 12 0729	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	90	360	-
2022-S34	2459711.81	2022 May 12 0729	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	90	360	-
2022-A11	2459724.29	2022 May 24 1900	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	20	0	-
2022-S38	2459735.55	2022 Jun 5 0108?	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	90	360	-
2022-S39	2459735.56	2022 Jun 5 0120?	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	90	360	-
2022-S40	2459735.57	2022 Jun 5 0143?	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	60?	330?	-
2022-M24	2459847.41	2022 Sep 24 2153	KN-25	?	-	-	Submerged launch	-	-	KUSONG	LP5	-	-	60?	600?	-
2022-M25	2459851.03	2022 Sep 28 1248	KN-25	?	-	-	Sunchon	-	-	PUKCH?	-	-	-	50	350	-
2022-M26	2459851.04	2022 Sep 28 1257	KN-25	?	-	-	-	-	-	PUKCH?	-	-	-	50	350	-
2022-S96	2459858.38	2022 Oct 5 2101	KN-25	?	-	-	-	-	-	SUNAN	LP3	-	-	80	350	-
2022-S97	2459861.20	2022 Oct 8 1645	KN-25	?	-	-	-	-	-	WONSAN	LP4	-	-	90	350	-
2022-S98	2459861.21	2022 Oct 8 1658	KN-25	?	-	-	-	-	-	WONSAN	LP4	-	-	90	350	-
2022-M28	2459886.49	2022 Nov 2 2339	KN-25	?	-	-	-	-	-	KAECH	-	-	-	70	330	-
2022-M29	2459886.49	2022 Nov 2 2339	KN-25	?	-	-	-	-	-	KAECH	-	-	-	70	330	-
2022-A36	2459900.58	2022 Nov 17 0148	KN-25	?	-	-	-	-	-	WONSAN	-	-	-	30?	300?	-
2022-S138	2459944.46	2022 Dec 30 2305?	KN-25	?	-	-	-	-	-	CHWA	-	-	-	100?	300?	Alseom
2022-S139	2459944.47	2022 Dec 30 2310?	KN-25	?	-	-	-	-	-	CHWA	-	-	-	100?	300?	Alseom
2022-S140	2459944.47	2022 Dec 30 2315?	KN-25	?	-	-	-	-	-	CHWA	-	-	-	100?	300?	Alseom
2023-S04	2459995.43	2023 Feb 19 2215?	KN-25	?	-	-	-	-	-	SUKCH	-	-	-	100	390	-
2023-M01	2459995.43	2023 Feb 19 2215?	KN-25	?	-	-	-	-	-	SUKCH	-	-	-	50	340	-
2023-M03	2460030.45	2023 Mar 26 2247	KN-25	?	-	-	-	-	-	CHWA	-	-	-	50?	350	-
2023-M04	2460030.46	2023 Mar 26 2258?	KN-25	?	-	-	-	-	-	CHWA	-	-	-	50?	350	-
2023-M06	2460110.93	2023 Jun 15 1025	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	60?	330?	-
2023-M07	2460110.94	2023 Jun 15 1037	KN-25	?	-	-	-	-	-	SUNAN	-	-	-	60?	330?	-
2023-S32	2460150.12	2023 Jul 24 1454	KN-25	?	-	-	-	-	-	SUNAN?	-	-	-	100	350	-
2023-S33	2460150.12	2023 Jul 24 1459	KN-25	?	-	-	-	-	-	SUNAN?	-	-	-	100	400	-
2025-M03	2460803.47	2025 May 7 2310	KN-25	?	-	-	-	-	-	WONSAN?	-	-	-	70?	800?	-
2025-M04	2460803.48	2025 May 7 2330?	KN-25	?	-	-	-	-	-	WONSAN?	-	-	-	70?	800?	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-S46	2458719.41	2019 Aug 23 2145	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2019-S47	2458719.42	2019 Aug 23 2202	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2019-A106	2458736.41	2019 Sep 9 2153	KN-25	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A107	2458736.42	2019 Sep 9 2212	KN-25	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-S68	2458787.82	2019 Oct 31 0735	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2019-S69	2458787.82	2019 Oct 31 0738	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2019-S76	2458815.83	2019 Nov 28 0759	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2019-S77	2458815.83	2019 Nov 28 0759	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-A05	2458910.65	2020 Mar 2 0337	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-A06	2458910.65	2020 Mar 2 0337	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-M01	2458917.45	2020 Mar 8 2246	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-M02	2458917.45	2020 Mar 8 2246	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-M03	2458917.45	2020 Mar 8 2246	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-A07	2458937.38	2020 Mar 28 2110	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2020-A08	2458937.38	2020 Mar 28 2110	KN-25	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S32	2459711.81	2022 May 12 0729	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S33	2459711.81	2022 May 12 0729	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S34	2459711.81	2022 May 12 0729	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A11	2459724.29	2022 May 24 1900	KN-25	?	-	0.000	KPA	MF	U	-	Test	Wire	-	-
2022-S38	2459735.55	2022 Jun 5 0108?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S39	2459735.56	2022 Jun 5 0120?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S40	2459735.57	2022 Jun 5 0143?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M24	2459847.41	2022 Sep 24 2153	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M25	2459851.03	2022 Sep 28 1248	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M26	2459851.04	2022 Sep 28 1257	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S96	2459858.38	2022 Oct 5 2101	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S97	2459861.20	2022 Oct 8 1645	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S98	2459861.21	2022 Oct 8 1658	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M28	2459886.49	2022 Nov 2 2339	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M29	2459886.49	2022 Nov 2 2339	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A36	2459900.58	2022 Nov 17 0148	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S138	2459944.46	2022 Dec 30 2305?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S139	2459944.47	2022 Dec 30 2310?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S140	2459944.47	2022 Dec 30 2315?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-S04	2459995.43	2023 Feb 19 2215?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M01	2459995.43	2023 Feb 19 2215?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M03	2460030.45	2023 Mar 26 2247	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M04	2460030.46	2023 Mar 26 2258?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M06	2460110.93	2023 Jun 15 1025	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M07	2460110.94	2023 Jun 15 1037	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-S32	2460150.12	2023 Jul 24 1454	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-S33	2460150.12	2023 Jul 24 1459	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2025-M03	2460803.47	2025 May 7 2310	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2025-M04	2460803.48	2025 May 7 2330?	KN-25	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-S69	2458450.79	2018 Nov 28 0700	KSLV-II TLV	-	1	-	-	-	-	NARO	LC1	-	-	185?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-S69	2458450.79	2018 Nov 28 0700	KSLV-II TLV	-	1	0.000	KARI	SU	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-F09	2459508.83	2021 Oct 21 0800:00	Nuri	-	1	Dummy satellite	-	-	-	NARO	LC2	-	-	750?	-	-
2022-065	2459751.79	2022 Jun 21 0700:00	Nuri	-	2	PVSAT	-	-	-	NARO	LC2	-	-	709?	-	-
2023-072	2460089.89	2023 May 25 0924	Nuri	-	3	NEXTSAT-2	-	-	-	NARO	LC2	-	-	0	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-F09	2459508.83	2021 Oct 21 0800:00	Nuri	-	1	1.500	KARI	OF	S3U	G	Sat SSO O	Wire	-	LOX pressure low
2022-065	2459751.79	2022 Jun 21 0700:00	Nuri	-	2	1.503	KARI	OS	-	G	Sat SSO O	Wire	-	-
2023-072	2460089.89	2023 May 25 0924	Nuri	-	3	0.236	KARI	OS	-	G	Sat SSO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2002-A03	2452606.74	2002 Nov 28 0552:26	KSR-III	-	KSR-I-1	-	-	-	-	ANHU	-	-	-	43	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2002-A03	2452606.74	2002 Nov 28 0552:26	KSR-III	-	KSR-I-1	0.000	KARI	SS	-	KARI/Hwang	Aeronomy	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-A06	2449142.50	1993 Jun 4	KSR-I	-	KSR-420S-1	-	-	-	-	ANHU	-	-	-	39	-	-
1993-A11	2449231.50	1993 Sep 1	KSR-I	-	KSR-420S-2	-	-	-	-	ANHU	-	-	-	49	-	-
1997-S50	2450638.50	1997 Jul 9	KSR-II	-	KSR-II-1	-	-	-	-	ANHU	-	-	-	150	-	-
1998-S46	2450975.54	1998 Jun 11 0100	KSR-II	-	KSR-II-2	-	-	-	-	ANHU	-	-	-	137	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-A06	2449142.50	1993 Jun 4	KSR-I	-	KSR-420S-1	0.000	KARI	SS	-	KARI/	Aeronomy	Kim9807	-	-
1993-A11	2449231.50	1993 Sep 1	KSR-I	-	KSR-420S-2	0.000	KARI	SS	-	KARI/	Aeronomy	Kim9807	-	-
1997-S50	2450638.50	1997 Jul 9	KSR-II	-	KSR-II-1	0.000	KARI	SS	-	KARI/	XR Astron/Ionos	Kim9807	-	-
1998-S46	2450975.54	1998 Jun 11 0100	KSR-II	-	KSR-II-2	0.000	KARI	SS	-	KARI/Kim	XR Astron/Ionos	Kim9807	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-F01	2460382.58	2024 Mar 13 0201:12	Kairos	-	1	-	Tanki Uchaigegata Kogata	-	-	KII	LC1	-	-	1	-	-
2024-F04	2460662.58	2024 Dec 18 0200	Kairos	-	2	-	Tatara-1	-	-	KII	LC1	-	-	1	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-F01	2460382.58	2024 Mar 13 0201:12	Kairos	-	1	0.150	SPONE	OF	AD	C/G	Sat SSO OO	youtube.co	-	St1 burn rate low
2024-F04	2460662.58	2024 Dec 18 0200	Kairos	-	2	0.150	SPONE	OF	S1S	C	Sat SSO OO	youtube.co	-	St1 sep issue

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A90	2435740.50	1956 Sep 24 0002	Kappa 1	-	K-1-1	K-I-S-1	-	-	-	AKT	-	-	-	5	-	-
1956-A94	2435744.59	1956 Sep 28 0215	Kappa 1	-	K-1-2	K-I-S-2	-	-	-	AKT	-	-	-	5?	-	-
1956-A95	2435745.58	1956 Sep 29 0150	Kappa 1	-	K-1-3	K-I-S-3	-	-	-	AKT	-	-	-	5	-	-
1956-A116	2435810.68	1956 Dec 3 0420	Kappa 1	-	K-1-4	K-I-T-1	-	-	-	AKT	-	-	-	5?	-	-
1956-A119	2435815.65	1956 Dec 8 0332	Kappa 1	-	K-1-5	K-I-T-2	-	-	-	AKT	-	-	-	5?	-	-
1956-A120	2435818.64	1956 Dec 11 0326	Kappa 1	-	K-1-6	K-I-T-3	-	-	-	AKT	-	-	-	5?	-	-
1956-A122	2435820.59	1956 Dec 13 0210	Kappa 1	-	K-1-7	K-I-T-4	-	-	-	AKT	-	-	-	5?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A90	2435740.50	1956 Sep 24 0002	Kappa 1	-	K-1-1	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A94	2435744.59	1956 Sep 28 0215	Kappa 1	-	K-1-2	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A95	2435745.58	1956 Sep 29 0150	Kappa 1	-	K-1-3	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A116	2435810.68	1956 Dec 3 0420	Kappa 1	-	K-1-4	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A119	2435815.65	1956 Dec 8 0332	Kappa 1	-	K-1-5	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A120	2435818.64	1956 Dec 11 0326	Kappa 1	-	K-1-6	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-
1956-A122	2435820.59	1956 Dec 13 0210	Kappa 1	-	K-1-7	0.000	ISAS	AS	-	ISAS/	Test	ISTS1	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A102	2436101.92	1957 Sep 20 1003	Kappa 4	-	K-4-1	-	-	-	-	AKT	-	-	-	40	-	-
1957-A103	2436103.92	1957 Sep 22 1000	Kappa 4	-	K-4-2	-	-	-	-	AKT	-	-	-	40	-	-
1961-S182	2437468.69	1961 Jun 18 0435	Kappa 4	-	K-4-2	Sigma 4 Rockoon	-	-	-	OBA	-	-	-	105	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A102	2436101.92	1957 Sep 20 1003	Kappa 4	-	K-4-1	0.000	ISAS	SS	-	ISAS/	CR	ISTS1	-	-
1957-A103	2436103.92	1957 Sep 22 1000	Kappa 4	-	K-4-2	0.000	ISAS	SS	-	ISAS/	CR	ISTS1	-	-
1961-S182	2437468.69	1961 Jun 18 0435	Kappa 4	-	K-4-2	0.000	ISAS	SS	-	TOK/Takeuchi,Hirao	CR	WDCRF	ISTS3	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-A11	2454039.50	2006 Nov	Kavoshgar M5	-	Kavoshgar-1	Kavoshgar Class A	-	-	-	SHAHR?	-	-	-	10	-	-
2008-S67	2454796.50	2008 Nov 26	Nazeat 6H	?	Kavoshgar-2	Kavoshgar Class B	-	-	-	SHAHR?	-	-	-	40	-	-
2010-S14	2455230.50	2010 Feb 3	Nazeat 6H	?	Kavoshgar-3	Kavoshgar Class B	-	-	-	SHAHR?	-	-	-	55	-	-
2022-S95	2459855.50	2022 Oct 3?	Nazeat 6H	?	Saman Test	-	-	-	-	SHAHR?	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-A11	2454039.50	2006 Nov	Kavoshgar M5	-	Kavoshgar-1	0.000	IRSA	SS	-	IRSA/	Test	Wire	-	-
2008-S67	2454796.50	2008 Nov 26	Nazeat 6H	?	Kavoshgar-2	0.000	IRSA	SS	-	IRSA/	Test	Wire	-	-
2010-S14	2455230.50	2010 Feb 3	Nazeat 6H	?	Kavoshgar-3	0.000	IRSA	SS	-	IRSA/	Bio	Wire	-	-
2022-S95	2459855.50	2022 Oct 3?	Nazeat 6H	?	Saman Test	0.000	IRSA	SS	-	IRSA/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-A29	2459473.78	2021 Sep 16 0639	Hapith I	-	1	Test	-	-	-	WWAY	-	-	-	0	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-A29	2459473.78	2021 Sep 16 0639	Hapith I	-	1	0.000	TISPACE	SF	U	-	Test	satnews.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S107	2459871.50	2022 Oct 19?	Kingfisher	-	1	-	-	-	-	SUIST?	-	-	-	185	-	-
2022-S108	2459871.50	2022 Oct 19?	Kingfisher	-	1	-	-	-	-	SUIST?	-	-	-	185	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S107	2459871.50	2022 Oct 19?	Kingfisher	-	1	0.000	TMINUS	SS	-	TMINUS/	Test	linkedin.com	-	[Oct 17-21]
2022-S108	2459871.50	2022 Oct 19?	Kingfisher	-	1	0.000	TMINUS	SS	-	TMINUS/	Test	linkedin.com	-	[Oct 17-21]

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S134	2437106.50	1960 Jun 21	Kiva/Hopi	-	-	PHOENIX 1	-	-	-	PM	-	-	-	300?	-	-
1960-S153	2437115.50	1960 Jul	Kiva/Hopi	-	-	PHOENIX 5	-	-	-	PM	-	-	-	325	-	-
1960-S234	2437158.50	1960 Aug 12	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S316	2437219.50	1960 Oct 12	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S337	2437234.50	1960 Oct 27	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S394	2437275.28	1960 Dec 6 1844	Kiva/Hopi	-	-	PHOENIX	-	-	-	PA	LC-B	-	-	367	-	-
1960-S405	2437282.50	1960 Dec 14	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S406	2437282.50	1960 Dec 14	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S412	2437284.50	1960 Dec 16	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1961-S130	2437419.50	1961 May?	Kiva/Hopi	-	-	PHOENIX Chaff	-	-	-	WI	-	-	-	273	-	-
1962-S279	2437881.50	1962 Aug 5	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-
1963-S198	2438160.50	1963 May 11	Kiva/Hopi	-	-	-	-	-	-	PA	LC-B	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S134	2437106.50	1960 Jun 21	Kiva/Hopi	-	-	0.000	AFCRL	SS	-	AFCRL/UMD/	Test	Morrow	-	-
1960-S153	2437115.50	1960 Jul	Kiva/Hopi	-	-	0.000	AFCRL	SS	-	AFCRL/UMD/	Test	MR600801-23	-	-
1960-S234	2437158.50	1960 Aug 12	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1960-S316	2437219.50	1960 Oct 12	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1960-S337	2437234.50	1960 Oct 27	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1960-S394	2437275.28	1960 Dec 6 1844	Kiva/Hopi	-	-	0.000	AFCRL	SS	-	AFCRL/UMD/	Ionos	WDC	-	-
1960-S405	2437282.50	1960 Dec 14	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1960-S406	2437282.50	1960 Dec 14	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1960-S412	2437284.50	1960 Dec 16	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1961-S130	2437419.50	1961 May?	Kiva/Hopi	-	-	0.000	AFCRL	SS	-	AFCRL/UMD/	Aeron	MR610605-21	-	-
1962-S279	2437881.50	1962 Aug 5	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-
1963-S198	2438160.50	1963 May 11	Kiva/Hopi	-	-	0.000	AFCRL	SU	-	AFCRL/UMD/	Aeron?	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-S216	2448463.50	1991 Jul 26	Kontakt	-	1 -	79M6 test flight	-	-	MiG31D-72	BALKH	-	-	-	200?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-S216	2448463.50	1991 Jul 26	Kontakt	-	1 -	0.000	PKO	MS	-	-	ASAT Test	garnaev.livejournal	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-A15	2447601.68	1989 Mar 16 0425	Kuryer	-	1 -	15Zh59 B-1	Mobile launch test	-	-	NIIP-53	-	-	-	1?	-	-
1989-A16	2447758.10	1989 Aug 19 1420	Kuryer	-	2 -	15Zh59 B-2	Mobile launch test	-	-	NIIP-53	-	-	-	1?	-	-
1990-A15	2448057.85	1990 Jun 15 0822	Kuryer	-	3 -	15Zh59 B-3	Mobile launch test	-	-	NIIP-53	-	-	-	1?	-	-
1991-A08	2448406.50	1991 May 30	Kuryer	-	4 -	15Zh59 B-4	Mobile launch test	-	-	NIIP-53	-	-	-	1?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-A15	2447601.68	1989 Mar 16 0425	Kuryer	-	1 -	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1989-A16	2447758.10	1989 Aug 19 1420	Kuryer	-	2 -	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-A15	2448057.85	1990 Jun 15 0822	Kuryer	-	3 -	0.000	RVSN	MS	-	-	Test	RML	-	-
1991-A08	2448406.50	1991 May 30	Kuryer	-	4 -	0.000	RVSN	MS	-	-	Test	RPCB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-F03	2457330.66	2015 Nov 4 0345	Super Strypi	-	1	ORS-4	Hiakasat	-	-	KAU	KP	-	-	30?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-F03	2457330.66	2015 Nov 4 0345	Super Strypi	-	1	0.086	AFORS/SAND	OF	S1G	G	Sat LEO O	Wire	-	St 1 control lost

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A141	2436802.17	1959 Aug 21 1600	Little Joe 1	4P	LJ-1	-	-	-	-	WI	LA1	-	-	1	-	-
1959-M35	2436845.92	1959 Oct 4 1000	Little Joe 1	4P	LJ-6	LJ-I	-	-	-	WI	LA1	-	-	59	-	-
1959-A187	2436877.12	1959 Nov 4 1455	Little Joe 1	2P	LJ-1A	LJ-II	-	-	-	WI	LA1	-	-	14	-	-
1959-S264	2436907.18	1959 Dec 4 1625	Little Joe 1	4C	LJ-2	LJ-III	-	-	-	WI	LA1	-	-	89	-	-
1960-A17	2436955.10	1960 Jan 21 1423	Little Joe 1	2C	LJ-1B	LJ-IV	-	-	-	WI	LA1	-	-	14	-	-
1960-A258	2437247.14	1960 Nov 8 1518:23	Little Joe 1	2P	LJ-5	LJ-V	-	-	-	WI	LA1	-	-	16	-	-
1961-A77	2437377.20	1961 Mar 18 1649	Little Joe 1	4C	LJ-5A	LJ-VI	-	-	-	WI	LA1	-	-	12	-	-
1961-A113	2437418.09	1961 Apr 28 1403	Little Joe 1	4C	LJ-5B	LJ-VII	-	-	-	WI	LA4	-	-	4	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A141	2436802.17	1959 Aug 21 1600	Little Joe 1	4P	LJ-1	0.000	LARCN	TF	U	-	SC Test	AP	WDCRF	1100ET
1959-M35	2436845.92	1959 Oct 4 1000	Little Joe 1	4P	LJ-6	0.000	LARCN	TS	-	-	SC Test	LJ-WorkingPaper133	WDCRF	-
1959-A187	2436877.12	1959 Nov 4 1455	Little Joe 1	2P	LJ-1A	0.000	LARCN	TS	-	-	SC Test	LJ-WorkingPaper134	WDCRF	-
1959-S264	2436907.18	1959 Dec 4 1625	Little Joe 1	4C	LJ-2	0.000	LARCN	TS	-	-	SC Test	TN-D-976	LJ-WorkingPaper169	-
1960-A17	2436955.10	1960 Jan 21 1423	Little Joe 1	2C	LJ-1B	0.000	LARCN	TS	-	-	SC Test	LJ-WorkingPaper173	WDCRF	-
1960-A258	2437247.14	1960 Nov 8 1518:23	Little Joe 1	2P	LJ-5	0.000	LARCN	TF	U	-	SC Test	LJ-WorkingPaper166	WDCRF	-
1961-A77	2437377.20	1961 Mar 18 1649	Little Joe 1	4C	LJ-5A	0.000	LARCN	TS	-	-	SC Test	WDCRF	-	-
1961-A113	2437418.09	1961 Apr 28 1403	Little Joe 1	4C	LJ-5B	0.000	LARCN	TS	-	-	SC Test	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A123	2438270.17	1963 Aug 28 1600:02	Little Joe II	6-1-0	LJII-1 (12-50-1)	QTV	-	-	-	WS	LC36	-	-	8	-	-
1964-A68	2438529.04	1964 May 13 1259:59	Little Joe II	6-1-0	LJII-2 (12-50-2)	A-001	-	-	-	WS	LC36	-	-	5	-	-
1964-A180	2438738.12	1964 Dec 8 1500:00	Little Joe II	4-2-0	LJII-3 (12-51-1)	A-002	-	-	-	WS	LC36	-	-	5	-	-
1965-A73	2438900.04	1965 May 19 1301:04	Little Joe II	0-3-3	LJII-4 (12-51-2)	A-003	-	-	-	WS	LC36	-	-	6	-	-
1966-A18	2439146.14	1966 Jan 20 1517:01	Little Joe II	5-2-2	LJII-5 (12-51-3)	A-004	-	-	-	WS	LC36	-	-	23	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A123	2438270.17	1963 Aug 28 1600:02	Little Joe II	6-1-0	LJII-1 (12-50-1)	0.000	JSC	TS	-	-	SC Test	CR-117547	SP-4004	-
1964-A68	2438529.04	1964 May 13 1259:59	Little Joe II	6-1-0	LJII-2 (12-50-2)	0.000	JSC	TS	-	-	SC Test	WDCRF	-	-
1964-A180	2438738.12	1964 Dec 8 1500:00	Little Joe II	4-2-0	LJII-3 (12-51-1)	0.000	JSC	TS	-	-	SC Test	WDCRF	-	-
1965-A73	2438900.04	1965 May 19 1301:04	Little Joe II	0-3-3	LJII-4 (12-51-2)	0.000	JSC	TF	U	-	SC Test	WDCRF	-	-
1966-A18	2439146.14	1966 Jan 20 1517:01	Little Joe II	5-2-2	LJII-5 (12-51-3)	0.000	JSC	TS	-	-	SC Test	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-U01	2440424.25	1969 Jul 21 1754:01	LM AS	-	5	Apollo 11	LM 5 Ascent Stage	-	-	TRAN	LM5-DS	-	-	-	-	-
1969-U02	2440546.10	1969 Nov 20 1425:56	LM AS	-	6	Apollo 12	LM 6 Ascent Stage	-	-	SV3	LM6-DS	-	-	-	-	-
1971-U01	2440989.28	1971 Feb 6 1848	LM AS	-	8	Apollo 14	LM 8 Ascent Stage	-	-	FMR	LM8-DS	-	-	-	-	-
1971-U02	2441166.22	1971 Aug 2 1711:23	LM AS	-	10	Apollo 15	LM 10 Ascent Stage	-	-	HAD	LM10-DS	-	-	-	-	-
1972-U02	2441431.56	1972 Apr 24 0125:48	LM AS	-	11	Apollo 16	LM 11 Ascent Stage	-	-	DES	LM11-DS	-	-	-	-	-
1972-U03	2441666.45	1972 Dec 14 2254:37	LM AS	-	12	Apollo 17	LM 12 Ascent Stage	-	-	LIT	LM12-DS	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-U01	2440424.25	1969 Jul 21 1754:01	LM AS	-	5	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-
1969-U02	2440546.10	1969 Nov 20 1425:56	LM AS	-	6	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-
1971-U01	2440989.28	1971 Feb 6 1848	LM AS	-	8	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-
1971-U02	2441166.22	1971 Aug 2 1711:23	LM AS	-	10	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-
1972-U02	2441431.56	1972 Apr 24 0125:48	LM AS	-	11	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-
1972-U03	2441666.45	1972 Dec 14 2254:37	LM AS	-	12	0.000	MSC	XS	-	G	Sat XO	ApolloMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S78	2460630.50	2024 Nov 16	LRAShM	-	1	Hypersonic RV test	-	-	-	CHAN	IC4	-	-	100?	1500?	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S78	2460630.50	2024 Nov 16	LRAShM	-	1	0.000	IDRDL	MS	-	-	Hypersonic	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M39	2438251.64	1963 Aug 10 0317	LS-A	-	LS-A Sustainer	-	-	-	-	NIIJ	-	-	-	10?	-	-
1964-S377	2438598.62	1964 Jul 22 0250	LS-A	-	LS-A-1	-	-	-	-	NIIJ	-	-	-	60?	-	-
1964-S378	2438598.87	1964 Jul 22 0855	LS-A	-	LS-A-2	-	-	-	-	NIIJ	-	-	-	60?	-	-
1965-S639	2439086.77	1965 Nov 22 0635	LS-A	-	LS-A-3	-	-	-	-	NIIJ	-	-	-	60?	-	-
1968-S499	2440118.58	1968 Sep 19 0158	LS-C	-	LS-C-D	-	-	-	-	TNSC	T	-	-	10?	-	-
1969-S111	2440258.77	1969 Feb 6 0631	LS-C	-	LS-C-1	-	-	-	-	TNSC	T	-	-	20?	-	-
1969-S491	2440474.77	1969 Sep 10 0630	LS-C	-	LS-C-2	-	-	-	-	TNSC	T	-	-	10?	-	-
1970-S96	2440620.75	1970 Feb 3 0603	LS-C	-	LS-C-3	-	-	-	-	TNSC	T	-	-	65	-	-
1970-S514	2440838.78	1970 Sep 9 0640	LS-C	-	LS-C-4	-	-	-	-	TNSC	T	-	-	45	-	-
1971-S440	2441204.78	1971 Sep 10 0647	LS-C	-	LS-C-5	-	-	-	-	TNSC	T	-	-	53	-	-
1972-S316	2441585.75	1972 Sep 25 0605	LS-C	-	LS-C-6	-	-	-	-	TNSC	T	-	-	40	-	-
1974-S96	2442087.77	1974 Feb 9 0630	LS-C	7	LS-C-7	LE-3 Test	-	-	-	TNSC	T	-	-	15	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M39	2438251.64	1963 Aug 10 0317	LS-A	-	LS-A Sustainer	0.000	STA	SF	U	STA/	Test	NASDA-WWW	SFLT18-399	-
1964-S377	2438598.62	1964 Jul 22 0250	LS-A	-	LS-A-1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	AIAA93-2598	-
1964-S378	2438598.87	1964 Jul 22 0855	LS-A	-	LS-A-2	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-S639	2439086.77	1965 Nov 22 0635	LS-A	-	LS-A-3	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1968-S499	2440118.58	1968 Sep 19 0158	LS-C	-	LS-C-D	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-S111	2440258.77	1969 Feb 6 0631	LS-C	-	LS-C-1	0.000	NASDA	SF	U	STA/	Test	NASDA-WWW	AIAA93-2598	-
1969-S491	2440474.77	1969 Sep 10 0630	LS-C	-	LS-C-2	0.000	NASDA	SF	U	STA/	Test	NASDA-WWW	AIAA93-2598	-
1970-S96	2440620.75	1970 Feb 3 0603	LS-C	-	LS-C-3	0.000	NASDA	SS	-	STA/	Test	NASDA-WWW	-	-
1970-S514	2440838.78	1970 Sep 9 0640	LS-C	-	LS-C-4	0.000	NASDA	SS	-	STA/	Test	NASDA-WWW	-	-
1971-S440	2441204.78	1971 Sep 10 0647	LS-C	-	LS-C-5	0.000	NASDA	SS	-	STA/	Test	NASDA-WWW	-	-
1972-S316	2441585.75	1972 Sep 25 0605	LS-C	-	LS-C-6	0.000	NASDA	SS	-	STA/	Test	NASDA-WWW	-	-
1974-S96	2442087.77	1974 Feb 9 0630	LS-C	7	LS-C-7	0.000	NASDA	SF	U	STA/	Test	NASDA-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S05	2435838.50	1957	Doorknob	2	-	-	[Needs confirmation]	-	-	TTR	-	-	-	84	-	-
1957-M05	2435928.50	1957 Apr	Doorknob	2	-	Test 17 (last R&D)	[Needs confirmation]	-	-	TTR	-	-	-	80?	-	-
1957-A66	2436046.50	1957 Jul 27	Doorknob	1	-	-	-	-	-	TTR	-	-	-	24	-	-
1957-A175	2436051.50	1957 Aug 1	Doorknob	1	-	-	-	-	-	TTR	-	-	-	24	-	-
1958-A83	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	Particle/X 1	-	-	-	JI	-	-	-	12	-	-
1958-A84	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	Particle/X 2	-	-	-	JI	-	-	-	15	-	-
1958-A85	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	Particle/X 3	-	-	-	JI	-	-	-	18	-	-
1958-A86	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	Particle/X 4	-	-	-	JI	-	-	-	24	-	-
1958-S129	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	Particle/X 5	-	-	-	JI	-	-	-	83	-	-
1958-S130	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	Particle/X 6	-	-	-	JI	-	-	-	83	-	-
1958-S131	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	Sampler 1	-	-	-	JI	-	-	-	83	-	-
1958-S132	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	Sampler 2	-	-	-	JI	-	-	-	83	-	-
1958-S137	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Sampler 1	-	-	-	JI	-	-	-	83	-	-
1958-S138	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Sampler 2	-	-	-	JI	-	-	-	83	-	-
1958-S139	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Sampler 3	-	-	-	JI	-	-	-	83	-	-
1958-S140	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Sampler 4	-	-	-	JI	-	-	-	83	-	-
1958-S141	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	-	-	-	-	JI	-	-	-	83	-	-
1958-S142	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Particle/X 1	-	-	-	JI	-	-	-	83	-	-
1958-S143	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	Particle/X 2	-	-	-	JI	-	-	-	83	-	-
1958-A88	2436426.90	1958 Aug 11 0930?	Doorknob	1	-	Particle/X 3	-	-	-	JI	-	-	-	24	-	-
1958-S111	2436415.50	1958 Aug	Doorknob	2	-	-	-	-	-	ENW	-	-	-	84	-	-
1959-A21	2436599.50	1959 Jan 31	Doorknob	1	-	-	-	-	-	TTR	-	-	-	24	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S05	2435838.50	1957	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Test	SRctCon3	-	-
1957-M05	2435928.50	1957 Apr	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Test	Alway2002	-	-
1957-A66	2436046.50	1957 Jul 27	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Test	SandiaNews570809	SRctCon3	-
1957-A175	2436051.50	1957 Aug 1	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Test	SandiaNews570809	-	-
1958-A83	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-A84	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-A85	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-A86	2436416.91	1958 Aug 1 0950?	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S129	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S130	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S131	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S132	2436416.91	1958 Aug 1 0950?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S137	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S138	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S139	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S140	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S141	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S142	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S143	2436426.90	1958 Aug 11 0930?	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-A88	2436426.90	1958 Aug 11 0930?	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-
1958-S111	2436415.50	1958 Aug	Doorknob	2	-	0.000	SAND	SS	-	SAND/	Aeron	SRctCon3	-	-
1959-A21	2436599.50	1959 Jan 31	Doorknob	1	-	0.000	SAND	SS	-	SAND/	Aeron	Alway2002	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M43	2438265.58	1963 Aug 24 0200	Lambda 2	-	L-2-1	-	-	-	-	KASC	L	-	-	51	-	-
1963-S594	2438374.71	1963 Dec 11 0500	Lambda 2	-	L-2-2	-	-	-	-	KASC	L	-	-	410	-	-
1964-S342	2438587.58	1964 Jul 11 0202	Lambda 3	-	L-3-1	-	-	-	-	KASC	L	-	-	857	-	-
1965-S65	2438791.71	1965 Jan 31 0501	Lambda 3	-	L-3-2	-	-	-	-	KASC	L	-	-	1040	-	-
1965-S170	2438837.92	1965 Mar 18 1007	Lambda 3	-	L-3-3	-	-	-	-	KASC	L	-	-	1085	-	-
1966-S151	2439189.70	1966 Mar 5 0450	Lambda 3H	-	L-3H-1	-	-	-	-	KASC	L	-	-	1829	-	-
1966-S387	2439329.77	1966 Jul 23 0635	Lambda 3H	-	L-3H-2	Gyro-plasma probe	-	-	-	KASC	L	-	-	1800	-	-
1966-F10	2439394.62	1966 Sep 26 0258	Lambda 4S	-	L-4S-1	-	L-4S-1	-	-	KASC	L	-	-	400	-	-
1966-F13	2439479.60	1966 Dec 20 0220	Lambda 4S	-	L-4S-2	-	L-4S-2	-	-	KASC	L	-	-	400	-	-
1967-S117	2439527.59	1967 Feb 6 0210	Lambda 3H	-	L-3H-3	-	-	-	-	KASC	L	-	-	2150	-	-
1967-F03	2439593.61	1967 Apr 13 0240	Lambda 4S	-	L-4S-3	-	L-4S-3	-	-	KASC	L	-	-	200	-	-
1969-S69	2440238.35	1969 Jan 16 2028	Lambda 3H	-	L-3H-4	-	-	-	-	KASC	L	-	-	100?	-	-
1969-S480	2440467.59	1969 Sep 3 0210:00	Lambda 4T	-	L-4T-1	-	-	-	-	KASC	L	-	-	400	-	-
1969-F13	2440486.59	1969 Sep 22 0210:00	Lambda 4S	-	L-4S-4	-	L-4S-4	-	-	KASC	L	-	-	400	-	-
1970-S78	2440607.59	1970 Jan 21 0210	Lambda 3H	-	L-3H-6	Te probe	-	-	-	KASC	L	-	-	1848	-	-
1970-011	2440628.68	1970 Feb 11 0425	Lambda 4S	-	L-4S-5	-	L-4S-5	-	-	KASC	L	-	-	5142	-	-
1970-S526	2440848.98	1970 Sep 19 1130	Lambda 3H	-	L-3H-5	-	-	-	-	KASC	L	-	-	2017	-	-
1971-S395	2441183.50	1971 Aug 20	Lambda 4SC	-	L-4SC-1	TVC test	-	-	-	KASC	L	-	-	100?	-	-
1971-S432	2441198.00	1971 Sep 3 1200	Lambda 3H	-	L-3H-7	-	-	-	-	KASC	L	-	-	1718	-	-
1973-S36	2441710.72	1973 Jan 28 0515	Lambda 4SC	-	L-4SC-2	TVC test	-	-	-	KASC	L	-	-	100?	-	-
1974-S72	2442069.96	1974 Jan 22 1100	Lambda 3H	-	L-3H-8	-	-	-	-	KASC	L	-	-	1571	-	-
1974-S288	2442279.73	1974 Aug 20 0530	Lambda 4SC	-	L-4SC-3	TVC test	-	-	-	KASC	L	-	-	100?	-	-
1976-S357	2443020.73	1976 Aug 30 0535	Lambda 4SC	-	L-4SC-4	Radar transponder	-	-	-	KASC	L	-	-	100?	-	-
1977-S230	2443371.97	1977 Aug 16 1115	Lambda 3H	-	L-3H-9	-	-	-	-	KASC	L	-	-	1294	-	-
1979-S263	2444136.60	1979 Sep 20 0230	Lambda 4SC	-	L-4SC-5	TVC test	-	-	-	KASC	L	-	-	82	150	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M43	2438265.58	1963 Aug 24 0200	Lambda 2	-	L-2-1	0.000	ISAS	SF	U	ISAS/	Ionos/Test	ISTS6-8	-	-
1963-S594	2438374.71	1963 Dec 11 0500	Lambda 2	-	L-2-2	0.000	ISAS	SS	-	TOK/KYO/Kimura	Ionos	ISRJ18-329	SR5,1071	-
1964-S342	2438587.58	1964 Jul 11 0202	Lambda 3	-	L-3-1	0.000	ISAS	SS	-	TOKAI/Aoyama	Ionos	JRRL13,75	-	-
1965-S65	2438791.71	1965 Jan 31 0501	Lambda 3	-	L-3-2	0.000	ISAS	SS	-	OSAKA/Ota,Oshio	Ionos	ISRJ21-68	JRRL13,75	-
1965-S170	2438837.92	1965 Mar 18 1007	Lambda 3	-	L-3-3	0.000	ISAS	SS	-	NAG/TOK/Hayakawa	XR Astron	ISRJ20-480,JRRL13,75	SR8,68	-
1966-S151	2439189.70	1966 Mar 5 0450	Lambda 3H	-	L-3H-1	0.000	ISAS	HS	-	ISAS/	XR Astron	ISRJ20-480	-	-
1966-S387	2439329.77	1966 Jul 23 0635	Lambda 3H	-	L-3H-2	0.000	ISAS	HS	-	RRL/OSAKA/Fugono,Higash.	Ionos/Aeron	ISRJ21-1	SR8-339	-
1966-F10	2439394.62	1966 Sep 26 0258	Lambda 4S	-	L-4S-1	0.009	ISAS	OF	S2S*	G	Sat LEO A	ISTS7	MR661017-34	S2 partial sep, S3/S4 fired
1966-F13	2439479.60	1966 Dec 20 0220	Lambda 4S	-	L-4S-2	0.009	ISAS	OF	S4I	G	Sat LEO A	ISTS7	-	Despin failed, broke S4 igniter
1967-S117	2439527.59	1967 Feb 6 0210	Lambda 3H	-	L-3H-3	0.000	ISAS	HS	-	ISAS/NAG/Matsuoka,Ha.	Ionos/CR/XR Astron	WDCRF	ApSS4,44	-
1967-F03	2439593.61	1967 Apr 13 0240	Lambda 4S	-	L-4S-3	0.009	ISAS	OF	S3I	G	Sat LEO A	Asahi670413	SP-4008	No S3 ig.
1969-S69	2440238.35	1969 Jan 16 2028	Lambda 3H	-	L-3H-4	0.000	ISAS	HF	U	ISAS/	Ionos	ISASBull	WDCRF	-
1969-S480	2440467.59	1969 Sep 3 0210:00	Lambda 4T	-	L-4T-1	0.000	ISAS	TS	-	ISAS/	Test	ISAS-Doc379	ISST9	-
1969-F13	2440486.59	1969 Sep 22 0210:00	Lambda 4S	-	L-4S-4	0.009	ISAS	OF	S3S*	G	Sat LEO A	ISAS-Doc379	-	S3 tailoff, hit S4
1970-S78	2440607.59	1970 Jan 21 0210	Lambda 3H	-	L-3H-6	0.000	ISAS	HS	-	ISAS/Obayashi	Ionos/Plasma	WDC	ISST9	-
1970-011	2440628.68	1970 Feb 11 0425	Lambda 4S	-	L-4S-5	0.024	ISAS	OS	-	G	Sat MEO A	ISST9	-	-
1970-S526	2440848.98	1970 Sep 19 1130	Lambda 3H	-	L-3H-5	0.000	ISAS	HS	-	NAG/Hayakawa	XR Astron/UV Astron	WDC	ISST9,ApSS17,30	-
1971-S395	2441183.50	1971 Aug 20	Lambda 4SC	-	L-4SC-1	0.000	ISAS	SF	U	ISAS/	Test	ISTS10	[Doc310: Aug 18]	-
1971-S432	2441198.00	1971 Sep 3 1200	Lambda 3H	-	L-3H-7	0.000	ISAS	HS	-	ISAS/NAG/Hayakawa	Aeron/Ionos/XR Ast	WDCRF	ISTS10	-
1973-S36	2441710.72	1973 Jan 28 0515	Lambda 4SC	-	L-4SC-2	0.000	ISAS	SS	-	ISAS/	Test	ISASDoc312	ISTS10	-
1974-S72	2442069.96	1974 Jan 22 1100	Lambda 3H	-	L-3H-8	0.000	ISAS	HS	-	ISAS/	XR Astron	SRctCon2	ApSS32,L1	-
1974-S288	2442279.73	1974 Aug 20 0530	Lambda 4SC	-	L-4SC-3	0.000	ISAS	SS	-	ISAS/	Test	FirstDayCover	meisei.co.jp	-
1976-S357	2443020.73	1976 Aug 30 0535	Lambda 4SC	-	L-4SC-4	0.000	ISAS	SS	-	ISAS/	Test	ISAS-Doc312	meisei.co.jp	-
1977-S230	2443371.97	1977 Aug 16 1115	Lambda 3H	-	L-3H-9	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos/Plasma	JGG32,551	WDCRF	-
1979-S263	2444136.60	1979 Sep 20 0230	Lambda 4SC	-	L-4SC-5	0.000	ISAS	SS	-	ISAS/	Test	ISAS-SES-K578	ISAS-Doc470	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-A235	2438834.50	1965 Mar 15	Lance	-	XMGM-52A FT-1	-	-	-	-	WS	-	-	-	10?	-	-
1965-A246	2438865.50	1965 Apr 15	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A247	2438880.50	1965 May	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A248	2438962.50	1965 Jul 21	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A241	2438975.50	1965 Aug 3	Lance	-	-	-	-	-	-	WS	LC33	-	-	10?	-	-
1965-A242	2438990.50	1965 Aug 18	Lance	-	FT-5	-	-	-	-	WS	-	-	-	10?	-	-
1965-A249	2438972.50	1965 Aug	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A250	2439024.50	1965 Sep 21	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A251	2439026.50	1965 Sep 23	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A252	2439043.50	1965 Oct 10	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A253	2439064.50	1965 Nov	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A243	2439082.50	1965 Nov 18	Lance	-	FT-12	-	-	-	-	WS	-	-	-	10?	-	-
1965-A254	2439094.50	1965 Dec	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A255	2439094.50	1965 Dec	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1965-A256	2439094.50	1965 Dec	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1966-A614	2439151.50	1966 Jan 26	Lance	-	16	-	-	-	-	WS	-	-	-	10?	-	-
1966-A615	2439223.50	1966 Apr 8	Lance	-	17RBL	035	-	-	-	WS	-	-	-	10?	-	-
1966-A616	2439230.50	1966 Apr 15	Lance	-	18RBL	031	-	-	-	WS	-	-	-	10?	-	-
1966-A617	2439243.50	1966 Apr 28	Lance	-	19RBL	028	-	-	-	WS	-	-	-	10?	-	-
1966-A610	2439249.50	1966 May 4	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1966-A618	2439272.50	1966 May 27	Lance	-	20RBL	043	-	-	-	WS	-	-	-	10?	-	-
1966-A619	2439300.50	1966 Jun 24	Lance	-	21RBL	032	-	-	-	WS	-	-	-	10?	-	-
1966-A611	2439306.50	1966 Jun 30	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1966-A620	2439307.50	1966 Jul 1	Lance	-	22	044	-	-	-	WS	-	-	-	10?	-	-
1966-A621	2439312.50	1966 Jul 6	Lance	-	23	048	-	-	-	WS	-	-	-	10?	-	-
1966-A612	2439333.50	1966 Jul 27	Lance	-	FT-27	-	-	-	-	WS	-	-	-	10?	-	-
1966-A622	2439321.50	1966 Jul 15	Lance	-	24RGT	026	-	-	-	WS	-	-	-	10?	-	-
1966-A623	2439328.50	1966 Jul 22	Lance	-	25RSL	046	-	-	-	WS	-	-	-	10?	-	-
1966-A624	2439333.50	1966 Jul 27	Lance	-	26	050	-	-	-	WS	-	-	-	10?	-	-
1966-A625	2439342.50	1966 Aug 5	Lance	-	27RST	033	-	-	-	WS	-	-	-	10?	-	-
1966-A626	2439347.50	1966 Aug 10	Lance	-	28RMT	019	-	-	-	WS	-	-	-	10?	-	-
1966-A627	2439349.50	1966 Aug 12	Lance	-	29RML	024	-	-	-	WS	-	-	-	10?	-	-
1966-A613	2439367.50	1966 Aug 30	Lance	-	30RBL	054	-	-	-	WS	-	-	-	10?	-	-
1966-A628	2439375.50	1966 Sep 7	Lance	-	31RBL	051	-	-	-	WS	-	-	-	10?	-	-
1966-A629	2439381.50	1966 Sep 13	Lance	-	32RGT	047	-	-	-	WS	-	-	-	10?	-	-
1966-A591	2439396.50	1966 Sep 28	Lance	-	XR33RBL	055	XRL Feasibility 1	-	-	WS	-	-	-	10?	-	-
1966-A592	2439396.50	1966 Sep 28	Lance	-	34	-	XRL Feasibility 2	-	-	WS	-	-	-	10?	-	-
1966-A593	2439401.50	1966 Oct 3	Lance	-	EM Test 6	-	-	-	-	WS	-	-	-	10?	-	-
1966-A630	2439425.50	1966 Oct 27	Lance	-	35RML	057	-	-	-	WS	-	-	-	10?	-	-
1966-A631	2439433.50	1966 Nov 4	Lance	-	36RGL	053	-	-	-	WS	-	-	-	10?	-	-
1966-A632	2439438.50	1966 Nov 9	Lance	-	37RBL	111	-	-	-	WS	-	-	-	10?	-	-
1966-A633	2439458.50	1966 Nov 29	Lance	-	38RBL	TP-11	-	-	-	WS	LC33	-	-	10?	-	-
1967-A177	2439548.50	1967 Feb 27	Lance	-	39RBT	TP-8	-	-	-	WS	-	-	-	10?	-	-
1967-A178	2439559.50	1967 Mar 10	Lance	-	40RBT	TP-12	-	-	-	WS	-	-	-	10?	-	-
1967-A179	2439570.50	1967 Mar 21	Lance	-	41RBT	TP-54	-	-	-	WS	-	-	-	10?	-	-
1967-A180	2439580.50	1967 Mar 31	Lance	-	42RST	TP-25	-	-	-	WS	-	-	-	10?	-	-
1967-A181	2439594.50	1967 Apr 14	Lance	-	43RMT	TP-43	-	-	-	WS	-	-	-	10?	-	-
1967-A182	2439606.50	1967 Apr 26	Lance	-	44RML	TP-42	-	-	-	WS	-	-	-	10?	-	-
1967-A183	2439608.50	1967 Apr 28	Lance	-	45	-	-	-	-	WS	-	-	-	10?	-	-
1967-A184	2439635.50	1967 May 25	Lance	-	46RMT	TP-27	-	-	-	WS	-	-	-	10?	-	-
1967-A162	2439641.50	1967 Jun	Lance	-	Air drop test	-	-	-	-	WS	-	-	-	10?	-	-
1967-A163	2439641.50	1967 Jun	Lance	-	Air drop test	-	-	-	-	WS	-	-	-	0?	-	-
1967-A174	2439643.50	1967 Jun 2	Lance	-	P-60	-	-	-	-	WS	LC33	-	-	10?	-	-
1967-A185	2439653.50	1967 Jun 12?	Lance	-	47RMT	TP-21	-	-	-	WS	-	-	-	10?	-	-
1967-A175	2439671.50	1967 Jun 30	Lance	-	48RMT	P39	-	-	-	WS	-	-	-	0?	-	-
1967-A186	2439731.50	1967 Aug 29	Lance	-	49RBL	P52	-	-	-	WS	-	-	-	10?	-	-
1967-A187	2439746.50	1967 Sep 13	Lance	-	50RML	TP-39	-	-	-	WS	-	-	-	10?	-	-
1967-A188	2439755.50	1967 Sep 22	Lance	-	51RML	TP-33	-	-	-	WS	-	-	-	10?	-	-
1967-A189	2439762.50	1967 Sep 29	Lance	-	52RPL	XTP-59	-	-	-	WS	-	-	-	10?	-	-
1967-A176	2439780.50	1967 Oct 17	Lance	-	53RSL	XTP-58	-	-	-	WS	-	-	-	10?	-	-
1967-A161	2439783.50	1967 Oct 20	Lance	-	54RBL	P-36/TP-16	-	-	-	WS	-	-	-	0?	-	-
1967-A190	2439833.50	1967 Dec 9	Lance	-	55RPT	P-47	-	-	-	WS	-	-	-	10?	-	-
1968-A150	2439858.50	1968 Jan 3	Lance	-	56RPT	P-56	-	-	-	WS	-	-	-	10?	-	-
1968-A151	2439909.50	1968 Feb 23	Lance	-	57RPT	P-63	-	-	-	WS	-	-	-	10?	-	-
1968-A152	2440004.50	1968 May 28	Lance	-	58RPT	P-101	-	-	-	WS	-	-	-	10?	-	-
1968-A153	2440027.50	1968 Jun 20	Lance	-	59RPT	P-37	-	-	-	WS	-	-	-	10?	-	-
1968-A132	2440098.50	1968 Aug 30	Lance	-	60RPT	7102	Recert flight 1	-	-	WS	-	-	-	10?	-	-
1968-A156	2440124.50	1968 Sep 25	Lance	-	61RPT	1101	-	-	-	WS	-	-	-	10?	-	-
1968-A157	2440147.50	1968 Oct 18	Lance	-	62RPT	1102	-	-	-	WS	-	-	-	10?	-	-
1969-A234	2440243.50	1969 Jan 22	Lance	-	63	1103	-	-	-	WS	-	-	-	10?	-	-
1969-A231	2440248.50	1969 Jan 27	Lance	-	64RML	1106	-	-	-	WS	LC33	-	-	10?	-	-
1969-A218	2440280.50	1969 Mar	Lance	-	Recert flight 5	-	-	-	-	WS	-	-	-	10?	-	-
1969-A219	2440293.50	1969 Mar 13	Lance	-	XRL Test 1	-	-	-	-	WS	-	-	-	10?	-	-
1969-A235	2440311.50	1969 Apr	Lance	-	65RBT	7101	-	-	-	WS	-	-	-	10?	-	-
1969-A232	2440349.50	1969 May 8	Lance	-	66RML	1107	-	-	-	WS	-	-	-	10?	-	-
1969-A236	2440354.50	1969 May 13	Lance	-	67RGL	7104	-	-	-	WS	-	-	-	10?	-	-
1969-A220	2440413.50	1969 Jul 11	Lance	-	XRL Test	-	-	-	-	WS	-	-	-	0?	-	-
1969-A237	2440474.50	1969 Sep 10	Lance	-	68RGT	5134	-	-	-	WS	-	-	-	10?	-	-
1969-A238	2440496.50	1969 Oct 2	Lance	-	69RGL	5135	-	-	-	WS	-	-	-	10?	-	-
1969-A239	2440516.50	1969 Oct 22	Lance	-	70	3101	-	-	-	WS	-	-	-	10?	-	-
1969-A221	2440518.50	1969 Oct 24	Lance	-	XRL Test	-	-	-	-	WS	-	-	-	10?	-	-
1969-A240	2440522.50	1969 Oct 28	Lance	-	71	3103	-	-	-	WS	-	-	-	10?	-	-
1969-A241	2440537.50	1969 Nov 12	Lance	-	72	3104	-	-	-	WS	-	-	-	10?	-	-
1969-A242	2440565.50	1969 Dec 10	Lance	-	73	3103	-	-	-	WS	-	-	-	10?	-	-
1970-A191	2440598.50	1970 Jan 12	Lance	-	74	3102	-	-	-	WS	-	-	-	10?	-	-
1970-A192	2440614.50	1970 Jan 28	Lance	-	75	5101	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A193	2440621.50	1970 Feb 4	Lance	-	76RMT	5137	-	-	-	WS	-	-	-	10?	-	-
1970-A177	2440651.50	1970 Mar 6	Lance	-	77ST	5102	XRL Test	-	-	WS	-	-	-	10?	125	-
1970-A194	2440659.50	1970 Mar 14	Lance	-	78RST	5115	-	-	-	WS	-	-	-	10?	-	-
1970-A195	2440664.50	1970 Mar 19	Lance	-	79RBT	5103	-	-	-	WS	-	-	-	10?	-	-
1970-A196	2440671.50	1970 Mar 26	Lance	-	80RML	5138	-	-	-	WS	-	-	-	10?	-	-
1970-A197	2440682.50	1970 Apr 6	Lance	-	81RBL	5104	-	-	-	WS	-	-	-	10?	-	-
1970-A198	2440691.50	1970 Apr 15	Lance	-	82	5114	-	-	-	WS	-	-	-	10?	-	-
1970-A199	2440676.50	1970 Apr	Lance	-	83	-	-	-	-	WS	-	-	-	10?	-	-
1970-A200	2440706.50	1970 Apr 30	Lance	-	84RBL	5105	-	-	-	WS	-	-	-	10?	-	-
1970-A201	2440721.50	1970 May 15	Lance	-	85RGL	5116	-	-	-	WS	-	-	-	10?	-	-
1970-A202	2440725.50	1970 May 19	Lance	-	86RGL	5117	-	-	-	WS	-	-	-	10?	-	-
1970-A203	2440734.50	1970 May 28	Lance	-	87RGL	5126	-	-	-	WS	-	-	-	10?	-	-
1970-A204	2440762.50	1970 Jun 25	Lance	-	88	5107	-	-	-	WS	-	-	-	10?	-	-
1970-A205	2440767.50	1970 Jun 30	Lance	-	89RGT	5136	-	-	-	WS	-	-	-	10?	-	-
1970-A206	2440773.50	1970 Jul 6	Lance	-	90	5139	-	-	-	WS	-	-	-	10?	-	-
1970-A207	2440788.50	1970 Jul 21	Lance	-	91	5118	-	-	-	WS	-	-	-	10?	-	-
1970-A208	2440790.50	1970 Jul 23	Lance	-	92	5127	-	-	-	WS	-	-	-	10?	-	-
1970-A209	2440795.50	1970 Jul 28	Lance	-	93	5106	-	-	-	WS	-	-	-	10?	-	-
1970-A210	2440798.50	1970 Jul 31	Lance	-	94	5146	-	-	-	WS	-	-	-	10?	-	-
1970-A211	2440804.50	1970 Aug 6	Lance	-	95	5108	-	-	-	WS	-	-	-	10?	-	-
1970-A212	2440811.50	1970 Aug 13	Lance	-	96	5119	-	-	-	WS	-	-	-	10?	-	-
1970-A213	2440818.50	1970 Aug 20	Lance	-	97	5145	-	-	-	WS	-	-	-	10?	-	-
1970-A214	2440825.50	1970 Aug 27	Lance	-	98R	5147	-	-	-	WS	-	-	-	10?	-	-
1970-A215	2440829.50	1970 Sep	Lance	-	99	-	-	-	-	WS	-	-	-	10?	-	-
1970-A216	2440829.50	1970 Sep	Lance	-	100	-	-	-	-	WS	-	-	-	10?	-	-
1970-A217	2440859.50	1970 Oct	Lance	-	101	-	-	-	-	WS	-	-	-	10?	-	-
1970-A218	2440859.50	1970 Oct	Lance	-	102	-	-	-	-	WS	-	-	-	10?	-	-
1970-A219	2440859.50	1970 Oct	Lance	-	103	-	-	-	-	WS	-	-	-	10?	-	-
1970-A220	2440859.50	1970 Oct	Lance	-	104	-	-	-	-	WS	-	-	-	10?	-	-
1970-A221	2440890.50	1970 Nov	Lance	-	105	-	-	-	-	WS	-	-	-	10?	-	-
1970-A222	2440890.50	1970 Nov	Lance	-	106	-	-	-	-	WS	-	-	-	10?	-	-
1970-A223	2440920.50	1970 Dec	Lance	-	107	-	-	-	-	WS	-	-	-	10?	-	-
1970-A224	2440920.50	1970 Dec	Lance	-	108	-	-	-	-	WS	-	-	-	10?	-	-
1971-A231	2440951.50	1971 Jan	Lance	-	109	-	-	-	-	WS	-	-	-	10?	-	-
1971-A232	2440982.50	1971 Feb	Lance	-	110	-	-	-	-	WS	-	-	-	10?	-	-
1971-A233	2441010.50	1971 Mar	Lance	-	111	-	-	-	-	WS	-	-	-	10?	-	-
1971-A234	2441010.50	1971 Mar	Lance	-	112	-	-	-	-	WS	-	-	-	10?	-	-
1971-A235	2441071.50	1971 May	Lance	-	113	-	-	-	-	WS	-	-	-	10?	-	-
1971-A236	2441071.50	1971 May	Lance	-	114	-	-	-	-	WS	-	-	-	10?	-	-
1971-A237	2441102.50	1971 Jun	Lance	-	115	-	-	-	-	WS	-	-	-	10?	-	-
1971-A238	2441102.50	1971 Jun	Lance	-	116	-	-	-	-	WS	-	-	-	10?	-	-
1971-A239	2441102.50	1971 Jun	Lance	-	117	-	-	-	-	WS	-	-	-	10?	-	-
1971-A240	2441132.50	1971 Jul	Lance	-	118	-	-	-	-	WS	-	-	-	10?	-	-
1971-A241	2441132.50	1971 Jul	Lance	-	119	-	-	-	-	WS	-	-	-	10?	-	-
1971-A242	2441132.50	1971 Jul	Lance	-	120	-	-	-	-	WS	-	-	-	10?	-	-
1971-A243	2441163.50	1971 Aug	Lance	-	121	-	-	-	-	WS	-	-	-	10?	-	-
1971-A244	2441163.50	1971 Aug	Lance	-	122	-	-	-	-	WS	-	-	-	10?	-	-
1971-A212	2441176.50	1971 Aug 13	Lance	-	123	EST Test 1	-	-	-	WS	-	-	-	0?	-	-
1971-A246	2441183.50	1971 Aug 20	Lance	-	124SBT	2117	-	-	-	WS	-	-	-	10?	-	-
1971-A247	2441190.50	1971 Aug 27	Lance	-	125SBT	2125	-	-	-	WS	-	-	-	10?	-	-
1971-A248	2441197.50	1971 Sep 3	Lance	-	126RCT	5150	-	-	-	WS	-	-	-	10?	-	-
1971-A249	2441211.50	1971 Sep 17	Lance	-	127SET	2114	-	-	-	WS	-	-	-	10?	-	-
1971-A250	2441215.50	1971 Sep 21	Lance	-	128	2133	-	-	-	WS	-	-	-	10?	-	-
1971-A251	2441218.50	1971 Sep 24	Lance	-	129SBT	2128	-	-	-	WS	-	-	-	10?	-	-
1971-A252	2441225.50	1971 Oct 1	Lance	-	130ESL	2109	-	-	-	WS	-	-	-	10?	-	-
1971-A253	2441239.50	1971 Oct 15	Lance	-	131SBL	2137	-	-	-	WS	-	-	-	10?	-	-
1971-A226	2441267.50	1971 Nov 12	Lance	-	132RBT	2171	-	-	-	WS	-	-	-	10?	-	-
1971-A254	2441255.50	1971 Nov	Lance	-	133SBT	2132	-	-	-	WS	-	-	-	10?	-	-
1971-A227	2441278.50	1971 Nov 23	Lance	-	134SBL	2105	-	-	-	WS	-	-	-	10?	-	-
1971-A213	2441285.50	1971 Nov 30	Lance	-	135EST	2112	-	-	-	WS	-	-	-	10?	-	-
1971-A228	2441288.50	1971 Dec 3	Lance	-	136	2130	-	-	-	WS	-	-	-	10?	-	-
1971-A245	2441292.50	1971 Dec 7	Lance	-	137	2120	-	-	-	WS	-	-	-	10?	-	-
1971-A229	2441294.50	1971 Dec 9	Lance	-	138RMT/5129	-	-	-	-	WS	-	-	-	10?	-	-
1971-A230	2441295.50	1971 Dec 10	Lance	-	139SBT/2107	-	-	-	-	WS	-	-	-	10?	-	-
1972-A169	2441316.50	1972 Jan	Lance	-	140SPL/2108	-	-	-	-	WS	-	-	-	10?	-	-
1972-A170	2441341.50	1972 Jan 25	Lance	-	141SPL/2106	-	-	-	-	WS	-	-	-	10?	-	-
1972-A171	2441344.50	1972 Jan 28	Lance	-	142ESL/2110	-	-	-	-	WS	-	-	-	10?	-	-
1972-A172	2441351.50	1972 Feb 4	Lance	-	143SPT/2127	-	-	-	-	WS	-	-	-	10?	-	-
1972-A173	2441355.50	1972 Feb 8	Lance	-	144SSL/2102	-	-	-	-	WS	-	-	-	10?	-	-
1972-A174	2441358.50	1972 Feb 11	Lance	-	145ESL/2135	-	-	-	-	WS	-	-	-	10?	-	-
1972-A161	2441362.50	1972 Feb 15	Lance	-	146SST/2141	-	-	-	-	WS	-	-	-	10?	-	-
1972-A162	2441365.50	1972 Feb 18	Lance	-	147SST/2142	-	-	-	-	WS	-	-	-	10?	-	-
1972-A175	2441372.50	1972 Feb 25	Lance	-	148ESL/2122	-	-	-	-	WS	-	-	-	10?	-	-
1972-A176	2441375.50	1972 Feb 28	Lance	-	149SST/2136	-	-	-	-	WS	-	-	-	10?	-	-
1972-A163	2441379.50	1972 Mar 3	Lance	-	150EBT/2140	-	-	-	-	WS	-	-	-	10?	-	-
1972-A177	2441383.50	1972 Mar 7	Lance	-	151SBL/2101	-	-	-	-	WS	-	-	-	10?	-	-
1972-A178	2441392.50	1972 Mar 16	Lance	-	152EST/2119	-	-	-	-	WS	-	-	-	10?	-	-
1972-A164	2441397.50	1972 Mar 21	Lance	-	153EBT/2126	-	-	-	-	WS	-	-	-	10?	-	-
1972-A179	2441400.50	1972 Mar 24	Lance	-	154EBT/2116	-	-	-	-	WS	-	-	-	10?	-	-
1972-A180	2441376.50	1972 Mar	Lance	-	155	-	-	-	-	WS	-	-	-	10?	-	-
1972-A181	2441403.50	1972 Mar 27	Lance	-	156EST/2131	-	-	-	-	WS	-	-	-	10?	-	-
1972-A165	2441427.50	1972 Apr 20	Lance	-	157SPL/2146	-	-	-	-	WS	-	-	-	10?	-	-
1972-A182	2441456.50	1972 May 19	Lance	-	158SPT/2166	-	-	-	-	WS	-	-	-	10?	-	-
1972-A183	2441469.50	1972 Jun 1	Lance	-	159EPT/2143	-	-	-	-	WS	-	-	-	10?	-	-
1972-A184	2441489.50	1972 Jun 21	Lance	-	160EST/2168	-	-	-	-	WS	-	-	-	10?	-	-
1972-A185	2441505.50	1972 Jul 7	Lance	-	161SPT/2159	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A186	2441316.50	1972	Lance	-	162	-	-	-	-	WS	-	-	-	10?	-	-
1972-A187	2441585.50	1972 Sep 25	Lance	-	163RBL/2154	-	-	-	-	WS	-	-	-	10?	-	-
1972-A166	2441589.50	1972 Sep 29	Lance	-	164ESL/5175	-	-	-	-	WS	-	-	-	10?	-	-
1972-A188	2441608.50	1972 Oct 18	Lance	-	165RBT/2138	-	-	-	-	WS	-	-	-	10?	-	-
1972-A189	2441627.50	1972 Nov 6	Lance	-	166EET/2310	-	-	-	-	WS	-	-	-	10?	-	-
1972-A190	2441629.50	1972 Nov 8?	Lance	-	167APT/2183	-	-	-	-	WS	-	-	-	10?	-	-
1972-A168	2441631.20	1972 Nov 9 1650	Lance	-	168APT/2184	-	Tactical launch	-	-	WS	LC39	-	-	10?	-	-
1972-A191	2441631.38	1972 Nov 9 2100	Lance	-	169APL/2186	-	Tactical launch	-	-	WS	-	-	-	10?	-	-
1972-A192	2441635.50	1972 Nov 14	Lance	-	170APT/2353	-	-	-	-	WS	-	-	-	10?	-	-
1972-A193	2441638.50	1972 Nov 17	Lance	-	171 /2177	-	-	-	-	WS	-	-	-	10?	-	-
1972-A194	2441638.50	1972 Nov 17	Lance	-	172 /2184	-	-	-	-	WS	-	-	-	10?	-	-
1972-A195	2441638.50	1972 Nov 17	Lance	-	173 /2188	-	-	-	-	WS	-	-	-	10?	-	-
1972-A196	2441652.50	1972 Dec 1	Lance	-	174ESL/2150	-	-	-	-	WS	-	-	-	10?	-	-
1972-A197	2441657.50	1972 Dec 6	Lance	-	175RCT/2147	-	-	-	-	WS	-	-	-	10?	-	-
1972-A198	2441664.50	1972 Dec 13	Lance	-	176SST/2170	-	-	-	-	WS	-	-	-	10?	-	-
1972-A167	2441669.50	1972 Dec 18	Lance	-	177EST/2352	-	-	-	-	WS	-	-	-	10?	-	-
1972-A199	2441672.50	1972 Dec 21	Lance	-	178SST/2148	-	-	-	-	WS	-	-	-	10?	-	-
1972-A200	2441673.50	1972 Dec 22	Lance	-	179EST/2351	-	-	-	-	WS	-	-	-	10?	-	-
1972-A201	2441673.50	1972 Dec 22	Lance	-	180EET/2148	-	-	-	-	WS	-	-	-	10?	-	-
1973-A101	2441691.50	1973 Jan 9	Lance	-	181SST/2174	-	-	-	-	WS	-	-	-	10?	-	-
1973-A123	2441698.50	1973 Jan 16	Lance	-	182EST/2354	-	-	-	-	WS	-	-	-	10?	-	-
1973-A102	2441701.50	1973 Jan 19	Lance	-	183EST/2176	-	-	-	-	WS	-	-	-	10?	-	-
1973-A103	2441705.50	1973 Jan 23	Lance	-	184EST/2355	-	-	-	-	WS	-	-	-	10?	-	-
1973-A104	2441740.50	1973 Feb 27	Lance	-	185RCL/2237	-	-	-	-	WS	-	-	-	10?	-	-
1973-A105	2441791.50	1973 Apr 19	Lance	-	186RCT/2239	-	-	-	-	WS	-	-	-	10?	-	-
1973-A106	2441806.50	1973 May 4	Lance	-	187RCT/2238	-	-	-	-	WS	-	-	-	10?	-	-
1973-A107	2441854.50	1973 Jun 21	Lance	-	188RCT/2169	-	-	-	-	WS	-	-	-	10?	-	-
1973-A108	2441855.50	1973 Jun 22	Lance	-	189RSL/2426	-	-	-	-	WS	-	-	-	10?	-	-
1973-A109	2441890.50	1973 Jul 27	Lance	-	190RCT/2164	-	-	-	-	WS	-	-	-	10?	-	-
1973-A110	2441916.50	1973 Aug 22	Lance	-	191RST/2356	-	-	-	-	WS	-	-	-	10?	-	-
1973-A111	2441920.50	1973 Aug 26	Lance	-	192RCL/2165	-	-	-	-	WS	-	-	-	10?	-	-
1973-A112	2441938.50	1973 Sep 13	Lance	-	193RCT/2121	-	-	-	-	WS	-	-	-	10?	-	-
1973-A113	2441951.50	1973 Sep 26	Lance	-	194APT/2195	-	-	-	-	WS	-	-	-	10?	-	-
1973-A114	2441951.50	1973 Sep 26	Lance	-	195APT/2198	-	-	-	-	WS	-	-	-	10?	-	-
1973-A115	2441953.50	1973 Sep 28	Lance	-	196APT/2500	-	-	-	-	WS	-	-	-	10?	-	-
1973-A116	2441959.50	1973 Oct 4	Lance	-	197APT/2207	-	-	-	-	WS	-	-	-	10?	-	-
1973-A117	2441959.50	1973 Oct 4	Lance	-	198APT/2190	-	-	-	-	WS	-	-	-	10?	-	-
1973-A118	2441955.50	1973 Oct	Lance	-	199APT/2191	-	-	-	-	WS	-	-	-	10?	-	-
1973-A124	2441955.50	1973 Oct	Lance	-	200APT/2187	-	-	-	-	WS	-	-	-	10?	-	-
1973-A119	2441973.50	1973 Oct 18	Lance	-	201APT/2192	-	-	-	-	WS	-	-	-	10?	-	-
1973-A120	2441973.50	1973 Oct 18	Lance	-	202APT/2204	-	-	-	-	WS	-	-	-	10?	-	-
1973-A121	2441974.50	1973 Oct 19	Lance	-	203RCT/2161	-	-	-	-	WS	-	-	-	10?	-	-
1973-A122	2442029.50	1973 Dec 13	Lance	-	204RCT/2527	-	-	-	-	WS	-	-	-	10?	-	-
1974-A92	2442071.50	1974 Jan 24	Lance	-	205APT/2201	-	-	-	-	WS	-	-	-	10?	-	-
1974-A93	2442071.50	1974 Jan 24	Lance	-	206APT/2208	-	-	-	-	WS	-	-	-	10?	-	-
1974-A88	2442078.50	1974 Jan 31	Lance	-	207APT/2210	-	-	-	-	WS	-	-	-	10?	-	-
1974-A94	2442078.50	1974 Jan 31	Lance	-	208APT/2205	-	-	-	-	WS	-	-	-	10?	-	-
1974-A95	2442085.50	1974 Feb 7	Lance	-	209APT/2203	-	-	-	-	WS	-	-	-	10?	-	-
1974-A96	2442085.50	1974 Feb 7	Lance	-	210APT/2579	-	-	-	-	WS	-	-	-	10?	-	-
1974-A97	2442078.50	1974 Feb	Lance	-	211RST/2118	-	-	-	-	WS	-	-	-	10?	-	-
1974-A98	2442141.50	1974 Apr 4	Lance	-	212APT/2217	-	-	-	-	WS	-	-	-	10?	-	-
1974-A99	2442141.50	1974 Apr 4	Lance	-	213APT/2218	-	-	-	-	WS	-	-	-	10?	-	-
1974-A89	2442148.50	1974 Apr 11	Lance	-	214APT/2563	-	-	-	-	WS	-	-	-	10?	-	-
1974-A90	2442148.50	1974 Apr 11	Lance	-	215APT/2476	-	-	-	-	WS	-	-	-	10?	-	-
1974-A100	2442149.50	1974 Apr 12	Lance	-	216RCT/2158	-	-	-	-	WS	-	-	-	10?	-	-
1974-A101	2442155.50	1974 Apr 18	Lance	-	217APT/2565	-	-	-	-	WS	-	-	-	10?	-	-
1974-A102	2442155.50	1974 Apr 18	Lance	-	218APT/2566	-	-	-	-	WS	-	-	-	10?	-	-
1974-A103	2442160.50	1974 Apr 23	Lance	-	219RTT/5132	-	-	-	-	WS	-	-	-	10?	-	-
1974-A104	2442162.50	1974 Apr 25	Lance	-	220APT/2196	-	-	-	-	WS	-	-	-	10?	-	-
1974-A105	2442163.50	1974 Apr 26	Lance	-	221SCT/2155	-	-	-	-	WS	-	-	-	10?	-	-
1974-A106	2442169.50	1974 May 2	Lance	-	222SCT/2134	-	-	-	-	WS	-	-	-	10?	-	-
1974-A107	2442174.50	1974 May 7	Lance	-	223RST/2732	-	-	-	-	WS	-	-	-	10?	-	-
1974-A108	2442176.50	1974 May 9	Lance	-	224SCT/2246	-	-	-	-	WS	-	-	-	10?	-	-
1974-A109	2442182.50	1974 May 15	Lance	-	225SCT/2243	-	-	-	-	WS	-	-	-	10?	-	-
1974-A110	2442190.50	1974 May 23	Lance	-	226SCT/2244	-	-	-	-	WS	-	-	-	10?	-	-
1974-A111	2442205.50	1974 Jun 7	Lance	-	227ECL/2245	-	-	-	-	WS	-	-	-	10?	-	-
1974-A112	2442211.50	1974 Jun 13	Lance	-	228ECT/2172	-	-	-	-	WS	-	-	-	10?	-	-
1974-A113	2442219.50	1974 Jun 21	Lance	-	229ECT/2173	-	-	-	-	WS	-	-	-	10?	-	-
1974-A114	2442226.50	1974 Jun 28	Lance	-	230ECL/2242	-	-	-	-	WS	-	-	-	10?	-	-
1974-A115	2442239.50	1974 Jul 11	Lance	-	231APT/2559	-	-	-	-	WS	-	-	-	10?	-	-
1974-A116	2442239.50	1974 Jul 11	Lance	-	232APT/2561	-	-	-	-	WS	-	-	-	10?	-	-
1974-A117	2442240.50	1974 Jul 12	Lance	-	233RST/2189	-	-	-	-	WS	-	-	-	10?	-	-
1974-A118	2442245.50	1974 Jul 17	Lance	-	234RSL/2791	-	-	-	-	WS	-	-	-	10?	-	-
1974-A119	2442246.50	1974 Jul 18	Lance	-	234APT/2212	-	-	-	-	WS	-	-	-	10?	-	-
1974-A91	2442246.50	1974 Jul 18	Lance	-	236APT/2562	-	-	-	-	WS	-	-	-	10?	-	-
1974-A120	2442253.50	1974 Jul 25	Lance	-	237APT/2220	-	-	-	-	WS	-	-	-	10?	-	-
1974-A121	2442253.50	1974 Jul 25	Lance	-	238APT/2214	-	-	-	-	WS	-	-	-	10?	-	-
1974-A122	2442321.50	1974 Oct 1	Lance	-	239APT/2900	-	-	-	-	WS	-	-	-	10?	-	-
1974-A123	2442323.50	1974 Oct 3	Lance	-	240APT/2224	-	-	-	-	WS	-	-	-	10?	-	-
1974-A124	2442323.50	1974 Oct 3	Lance	-	241APT/2228	-	-	-	-	WS	-	-	-	10?	-	-
1974-A125	2442330.50	1974 Oct 10	Lance	-	242APT/2225	-	-	-	-	WS	-	-	-	10?	-	-
1974-A126	2442330.50	1974 Oct 10	Lance	-	243APT/2221	-	-	-	-	WS	-	-	-	10?	-	-
1974-A127	2442337.50	1974 Oct 17	Lance	-	244APT/2229	-	-	-	-	WS	-	-	-	10?	-	-
1974-A128	2442337.50	1974 Oct 17	Lance	-	245APT/2231	-	-	-	-	WS	-	-	-	10?	-	-
1974-A129	2442344.50	1974 Oct 24	Lance	-	246AST/2901	-	-	-	-	WS	-	-	-	10?	-	-
1974-A130	2442344.50	1974 Oct 24	Lance	-	247AST/2226	-	-	-	-	WS	-	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-A131	2442366.50	1974 Nov 15	Lance	-	248AST/2598	-	-	-	-	WS	-	-	-	10?	-	-
1974-A132	2442366.50	1974 Nov 15	Lance	-	249AST/2599	-	-	-	-	WS	-	-	-	10?	-	-
1974-A133	2442366.50	1974 Nov 15	Lance	-	250AST/2612	-	-	-	-	WS	-	-	-	10?	-	-
1974-A134	2442377.50	1974 Nov 26	Lance	-	251AST/2193	-	-	-	-	WS	-	-	-	10?	-	-
1974-A135	2442386.50	1974 Dec 5	Lance	-	252AST/2977	-	-	-	-	WS	-	-	-	10?	-	-
1974-A136	2442386.50	1974 Dec 5	Lance	-	253AST/2978	-	-	-	-	WS	-	-	-	10?	-	-
1974-A137	2442386.50	1974 Dec 5	Lance	-	254AST/2979	-	-	-	-	WS	-	-	-	10?	-	-
1974-A138	2442386.50	1974 Dec 5	Lance	-	255AST/2983	-	-	-	-	WS	-	-	-	10?	-	-
1974-A139	2442387.50	1974 Dec 6	Lance	-	256AST/2984	-	-	-	-	WS	-	-	-	10?	-	-
1974-A140	2442387.50	1974 Dec 6	Lance	-	257AST/2987	-	-	-	-	WS	-	-	-	10?	-	-
1975-A95	2442456.50	1975 Feb 13	Lance	-	258AST/3037	-	-	-	-	WS	LC39	-	-	10?	-	-
1975-A87	2442456.50	1975 Feb 13	Lance	-	259APT/2213	-	-	-	-	WS	LC38	-	-	10?	-	-
1975-A88	2442456.50	1975 Feb 13	Lance	-	260APT/2232	-	-	-	-	WS	-	-	-	10?	-	-
1975-A96	2442456.50	1975 Feb 13	Lance	-	261APT/2234	-	-	-	-	WS	-	-	-	10?	-	-
1975-A97	2442547.50	1975 May 15	Lance	-	262RSL/3195	-	-	-	-	WS	-	-	-	10?	-	-
1975-A89	2442553.50	1975 May 21	Lance	-	263APT/2608	-	-	-	-	WS	-	-	-	10?	-	-
1975-A90	2442553.50	1975 May 21	Lance	-	264APT/2609	-	-	-	-	WS	-	-	-	10?	-	-
1975-A85	2442562.50	1975 May 30	Lance	-	265AST/3258	-	-	-	-	WS	LC33	-	-	10?	-	-
1975-A91	2442562.50	1975 May 30	Lance	-	266APT/2610	-	-	-	-	WS	-	-	-	10?	-	-
1975-A98	2442706.50	1975 Oct 21	Lance	-	267AST/2202	-	-	-	-	WS	-	-	-	10?	-	-
1975-A99	2442685.50	1975 Oct	Lance	-	268RST/3389	-	-	-	-	WS	-	-	-	10?	-	-
1975-A92	2442727.50	1975 Nov 11	Lance	-	269RST/2435	-	-	-	-	WS	-	-	-	10?	-	-
1975-A100	2442706.50	1975 Oct 21	Lance	-	270RST/3251	-	-	-	-	WS	-	-	-	10?	-	-
1975-A93	2442735.50	1975 Nov 19	Lance	-	271ECT/2640	-	-	-	-	WS	-	-	-	10?	-	-
1975-A94	2442735.50	1975 Nov 19	Lance	-	272APT/2620	-	-	-	-	WS	-	-	-	10?	-	-
1976-A143	2442820.50	1976 Feb 12	Lance	-	273ECL/2152	-	-	-	-	WS	-	-	-	10?	-	-
1976-A144	2442837.50	1976 Mar	Lance	-	274ECL/2163	-	-	-	-	WS	-	-	-	10?	-	-
1976-A145	2442837.50	1976 Mar	Lance	-	275ECL/2240	-	-	-	-	WS	-	-	-	10?	-	-
1976-A146	2442868.50	1976 Apr	Lance	-	276ECL/2160	-	-	-	-	WS	-	-	-	10?	-	-
1976-A147	2442868.50	1976 Apr	Lance	-	277AST/2711	-	-	-	-	WS	-	-	-	10?	-	-
1976-A148	2442868.50	1976 Apr	Lance	-	278RSL/3667	-	-	-	-	WS	-	-	-	10?	-	-
1976-A149	2442968.50	1976 Jul 9	Lance	-	279ACL/3075	-	-	-	-	WS	-	-	-	10?	-	-
1976-A150	2442972.50	1976 Jul 13	Lance	-	280RML/2211	-	-	-	-	WS	-	-	-	10?	-	-
1976-A141	2442974.50	1976 Jul 15	Lance	-	281APT/3203	-	-	-	-	WS	-	-	-	10?	-	-
1976-A152	2442974.50	1976 Jul 15	Lance	-	282RPT/3796	-	-	-	-	WS	-	-	-	10?	-	-
1976-A153	2442981.50	1976 Jul 22	Lance	-	283APT/3205	-	-	-	-	WS	-	-	-	10?	-	-
1976-A142	2442983.09	1976 Jul 23 1403	Lance	-	284ACT/3206	-	-	-	-	WS	DON	-	-	10?	-	-
1976-A154	2442989.17	1976 Jul 29 1600	Lance	-	285APT/3208	-	-	-	-	WS	LC39	-	-	10?	-	-
1976-A155	2442989.19	1976 Jul 29 1630	Lance	-	286APT/3207	-	-	-	-	WS	LC39	-	-	10?	-	-
1976-A156	2443052.07	1976 Sep 30 1346	Lance	-	287ACT/2511	-	-	-	-	WS	DON	-	-	10?	-	-
1976-A157	2443052.33	1976 Sep 30 2000	Lance	-	288AST/2714	-	-	-	-	WS	LC33	-	-	10?	-	-
1976-A158	2443059.09	1976 Oct 7 1416	Lance	-	289RST/2473	-	-	-	-	WS	LC33	-	-	10?	-	-
1976-A159	2443059.27	1976 Oct 7 1830	Lance	-	290RST/3932	-	-	-	-	WS	LC33	-	-	10?	-	-
1976-A160	2443067.10	1976 Oct 15 1420	Lance	-	291ECT/2162	-	-	-	-	WS	RRIO	-	-	10?	-	-
1976-A161	2443072.33	1976 Oct 20 2000	Lance	-	292ECL/2241	-	-	-	-	WS	RAT	-	-	10?	-	-
1977-A85	2443157.71	1977 Jan 14 0500	Lance	-	293RCL/2200	-	-	-	-	WS	DON	-	-	10?	-	-
1977-A81	2443162.38	1977 Jan 18 2101	Lance	-	294RSL/4043	-	-	-	-	WS	LC33	-	-	10?	-	-
1977-A86	2443255.16	1977 Apr 21 1550	Lance	-	295RCL/4106	-	-	-	-	WS	RAT	-	-	10?	-	-
1977-A87	2443294.50	1977 Jun	Lance	-	296	-	-	-	-	WS	-	-	-	10?	-	-
1977-A84	2443297.35	1977 Jun 2 2020	Lance	-	297APT/3325	-	-	-	-	WS	LC39	-	-	10?	-	-
1977-A58	2443325.50	1977 Jul 1	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1977-A83	2443329.50	1977 Jul 5	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1977-A88	2443380.12	1977 Aug 24 1500	Lance	-	298APT/3292	-	-	-	-	WS	LC39	-	-	10?	-	-
1977-A89	2443381.38	1977 Aug 25 2108	Lance	-	299RSL/4236	-	-	-	-	WS	LC33	-	-	10?	-	-
1977-A82	2443422.20	1977 Oct 5 1645	Lance	-	300AST/3293	-	-	-	-	WS	LC39	-	-	10?	-	-
1977-A90	2443422.23	1977 Oct 5 1729	Lance	-	301APL/3294	-	-	-	-	WS	LC39	-	-	10?	-	-
1977-A91	2443423.12	1977 Oct 6 1449	Lance	-	302RSL/2215	-	-	-	-	WS	LC33	-	-	10?	-	-
1977-A92	2443458.30	1977 Nov 10 1915	Lance	-	303APT/3296	-	-	-	-	WS	LC39	-	-	10?	-	-
1977-A93	2443481.16	1977 Dec 3 1553	Lance	-	304ESL/3298	-	-	-	-	WS	LC33	-	-	10?	-	-
1977-A94	2443485.14	1977 Dec 7 1518	Lance	-	305NCL/4285	-	-	-	-	WS	DON	-	-	10?	-	-
1977-A95	2443486.28	1977 Dec 8 1848	Lance	-	306DST/2478	-	-	-	-	WS	LC39	-	-	10?	-	-
1978-A76	2443521.47	1978 Jan 12 2316	Lance	-	307ESL/3331	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A74	2443528.15	1978 Jan 19 1532	Lance	-	308ESL/3504	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A77	2443534.27	1978 Jan 25 1833	Lance	-	309APT/3315	-	-	-	-	WS	LC39	-	-	10?	-	-
1978-A78	2443534.50	1978 Jan 26 0000	Lance	-	310APT/3316	-	-	-	-	WS	LC39	-	-	10?	-	-
1978-A79	2443564.42	1978 Feb 24 2206	Lance	-	311ESL/3317	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A69	2443569.50	1978 Mar 2	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1978-A80	2443571.44	1978 Mar 3 2230	Lance	-	312ESL/3314	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A81	2443583.46	1978 Mar 15 2257	Lance	-	313APT/2835	-	-	-	-	WS	LC39	-	-	10?	-	-
1978-A82	2443674.35	1978 Jun 14 2030	Lance	-	314AST/3329	-	-	-	-	WS	LC39	-	-	10?	-	-
1978-A83	2443675.12	1978 Jun 15 1450	Lance	-	315ACT/3330	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A84	2443703.08	1978 Jul 13 1400	Lance	-	316ESL/3338	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A85	2443710.25	1978 Jul 20 1800	Lance	-	317RCL/3370	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A86	2443746.11	1978 Aug 25 1437	Lance	-	318NPL/4444	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A87	2443751.50	1978 Sep?	Lance	-	319	-	-	-	-	WS	-	-	-	10?	-	-
1978-A75	2443757.50	1978 Sep 6	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1978-A88	2443802.31	1978 Oct 20 1930	Lance	-	320DST/2219	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A89	2443802.42	1978 Oct 20 2212	Lance	-	321ACT/3324	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A90	2443781.50	1978 Oct?	Lance	-	322	-	-	-	-	WS	-	-	-	10?	-	-
1978-A91	2443815.21	1978 Nov 2 1706	Lance	-	323ESL/3306	-	-	-	-	WS	LC33	-	-	10?	-	-
1978-A92	2443858.21	1978 Dec 15 1702	Lance	-	324NPL/4661	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A65	2443892.16	1979 Jan 18 1547	Lance	-	325DSL/2486	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A66	2443935.22	1979 Mar 2 1719	Lance	-	326ESL/4347	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A67	2443941.15	1979 Mar 8 1530	Lance	-	327ECL/3382	-	-	-	-	WS	DON	-	-	10?	-	-
1979-A68	2443974.24	1979 Apr 10 1743	Lance	-	328APT/3398	-	-	-	-	WS	LC39	-	-	10?	-	-
1979-A69	2443989.35	1979 Apr 25 2030	Lance	-	329APT/4355	-	-	-	-	WS	LC39	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-A70	2443990.16	1979 Apr 26 1546	Lance	-	330ACL/4388	-	-	-	-	WS	RAT	-	-	10?	-	-
1979-A71	2443996.19	1979 May 2 1629	Lance	-	331APT/3390	-	-	-	-	WS	LC39	-	-	10?	-	-
1979-A72	2443993.50	1979 May	Lance	-	332NCL/4724	-	-	-	-	WS	-	-	-	10?	-	-
1979-A73	2444046.13	1979 Jun 21 1510	Lance	-	333APL/3396	-	-	-	-	WS	LC39	-	-	10?	-	-
1979-A74	2444053.25	1979 Jun 28 1803	Lance	-	334AST/4390	-	-	-	-	WS	LC39	-	-	10?	-	-
1979-A75	2444099.38	1979 Aug 13 2100	Lance	-	335NCL/4819	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A59	2444141.36	1979 Sep 24 2032	Lance	-	336ESL/3312	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A76	2444158.08	1979 Oct 11 1400	Lance	-	337DSL/2222	-	-	-	-	WS	LC33	-	-	10?	-	-
1979-A60	2444186.10	1979 Nov 8 1430	Lance	-	338NCL/4883	-	-	-	-	WS	RRIO	-	-	10?	-	-
1979-A77	2444213.45	1979 Dec 5 2250	Lance	-	339DSL/2491	-	-	-	-	WS	LC33	-	-	10?	-	-
1980-A67	2444242.12	1980 Jan 3 1457	Lance	-	340ECL/3357	-	-	Spec Site	-	WS	SPEC	-	-	10?	-	-
1980-A68	2444298.47	1980 Feb 28 2315:03	Lance	-	341NCL/3871	-	-	-	-	WS	RAT	-	-	10?	-	-
1980-A69	2444304.18	1980 Mar 5 1619:01	Lance	-	342ECL/4998	-	-	-	-	WS	RAT	-	-	10?	-	-
1980-A70	2444341.16	1980 Apr 11 1555	Lance	-	343NCL/3717	-	-	-	-	WS	DON	-	-	10?	-	-
1980-A71	2444346.12	1980 Apr 16 1500	Lance	-	344ECL/5093	-	-	-	-	WS	DON	-	-	10?	-	-
1980-A62	2444355.11	1980 Apr 25 1437	Lance	-	345ECL/4382	-	-	-	-	WS	RRIO	-	-	10?	-	-
1980-A72	2444362.09	1980 May 2 1409	Lance	-	346ECL/4362	-	-	-	-	WS	RRIO	-	-	10?	-	-
1980-A73	2444369.30	1980 May 9 1908	Lance	-	347AST/4570	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A74	2444371.92	1980 May 12 0959	Lance	-	348APT/4556	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A75	2444372.09	1980 May 12 1415	Lance	-	349APT/2419	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A63	2444408.10	1980 Jun 17 1421:38	Lance	-	350ECL/3974	-	-	Spec	-	WS	SPEC	-	-	10?	-	-
1980-A76	2444411.09	1980 Jun 20 1405:32	Lance	-	351ECL/4244	-	-	-	-	WS	SPEC	-	-	10?	-	-
1980-A77	2444422.11	1980 Jul 1 1443	Lance	-	352ECL/4379	-	-	-	-	WS	DON	-	-	10?	-	-
1980-A78	2444425.38	1980 Jul 4 2100	Lance	-	353NPL/5194	-	-	-	-	WS	LC33	-	-	10?	-	-
1980-A79	2444431.07	1980 Jul 10 1335	Lance	-	354ECL/4240	-	-	-	-	WS	DON	-	-	10?	-	-
1980-A80	2444511.94	1980 Sep 29 1031	Lance	-	355APT/4520	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A81	2444513.14	1980 Sep 30 1517	Lance	-	356DST/2227	-	-	-	-	WS	LC33	-	-	10?	-	-
1980-A82	2444514.35	1980 Oct 1 2017	Lance	-	357APT/4571	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A59	2444515.19	1980 Oct 2 1634	Lance	-	358NSL/5302	W70-3 DFT ?	-	-	-	WS	LC33	-	-	10?	-	-
1980-A83	2444526.08	1980 Oct 13 1400	Lance	-	359APT/4545	-	-	-	-	WS	LC39	-	-	10?	-	-
1980-A84	2444585.14	1980 Dec 11 1520	Lance	-	360DSL/2513	-	-	-	-	WS	LC33	-	-	10?	-	-
1981-A41	2444655.25	1981 Feb 19 1800	Lance	-	361APT/4243	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A42	2444659.17	1981 Feb 23 1606	Lance	-	362APT/4246	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A43	2444663.21	1981 Feb 27 1702	Lance	-	363APL/4275	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A44	2444768.28	1981 Jun 12 1845	Lance	-	364APT/4575	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A45	2444772.32	1981 Jun 16 1936:39	Lance	-	365APT/5338	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A46	2444775.36	1981 Jun 19 2034:52	Lance	-	366AST/5339	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A47	2444802.17	1981 Jul 16 1600	Lance	-	367MCL/4572	-	-	-	-	WS	RAT	-	-	10?	-	-
1981-A48	2444880.17	1981 Oct 2 1600	Lance	-	368MSL/5336	-	-	-	-	WS	LC33	-	-	10?	-	-
1981-A49	2444911.37	1981 Nov 2 2054	Lance	-	369DST/2518	-	-	-	-	WS	LC33	-	-	10?	-	-
1981-A50	2444915.31	1981 Nov 6 1921:34	Lance	-	370APT/4576	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A51	2444922.01	1981 Nov 13 1211	Lance	-	371APT/4579	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A52	2444925.16	1981 Nov 16 1545	Lance	-	372APT/4573	-	-	-	-	WS	LC39	-	-	10?	-	-
1981-A53	2444938.50	1981 Dec?	Lance	-	373	-	-	-	-	WS	-	-	-	10?	-	-
1982-A57	2445026.17	1982 Feb 25 1606	Lance	-	374MSL/4577	-	-	-	-	WS	DON	-	-	10?	-	-
1982-A59	2445101.09	1982 May 11 1415	Lance	-	375MCT/5356	-	-	-	-	WS	DON	-	-	10?	-	-
1982-A60	2445103.50	1982 May 14	Lance	-	376AST/5357	-	-	-	-	WS	-	-	-	10?	-	-
1982-A58	2445107.13	1982 May 17 1506:06	Lance	-	377APT/4580	-	-	-	-	WS	LC39	-	-	10?	-	-
1982-A61	2445110.13	1982 May 20 1510:03	Lance	-	378AST/5358	-	-	-	-	WS	LC39	-	-	10?	-	-
1982-A62	2445273.46	1982 Oct 30 2300:47	Lance	-	379DSL/2233	-	-	-	-	WS	LC33	-	-	10?	-	-
1982-A63	2445279.15	1982 Nov 5 1530:04	Lance	-	380MSL/4581	-	-	-	-	WS	LC33	-	-	10?	-	-
1982-A64	2445310.48	1982 Dec 6 2332:35	Lance	-	381DSL/2540	-	-	-	-	WS	LC33	-	-	10?	-	-
1983-A59	2445403.50	1983 Mar 10	Lance	-	382MCL/4582	-	-	-	-	WS	-	-	-	10?	-	-
1983-A60	2445393.50	1983 Mar?	Lance	-	383	-	-	-	-	WS	-	-	-	10?	-	-
1983-A61	2445451.18	1983 Apr 26 1618:48	Lance	-	384MST/4849	-	-	-	-	WS	LC39	-	-	10?	-	-
1983-A62	2445455.00	1983 Apr 30 1200	Lance	-	385APT/4850	-	-	-	-	WS	LC39	-	-	10?	-	-
1983-A63	2445459.13	1983 May 4 1507:28	Lance	-	386APL/4583	-	-	-	-	WS	LC39	-	-	10?	-	-
1983-A64	2445465.30	1983 May 10 1915:05	Lance	-	387ACT/4585	-	-	-	-	WS	LER-3	-	-	10?	-	-
1983-A65	2445501.48	1983 Jun 15 2330:04	Lance	-	388MSL/5355	-	-	-	-	WS	LC33	-	-	10?	-	-
1983-A66	2445508.48	1983 Jun 22 2330:04	Lance	-	389MSL/5337	-	-	-	-	WS	LC33	-	-	10?	-	-
1983-A67	2445600.65	1983 Sep 23 0329:20	Lance	-	390APL/4587	-	-	-	-	WS	LC39	-	-	10?	-	-
1983-A68	2445603.50	1983 Sep 26	Lance	-	391ACL/5354	-	-	-	-	WS	-	-	-	10?	-	-
1983-A69	2445606.49	1983 Sep 28 2344:22	Lance	-	392APL/4586	-	-	-	-	WS	LC39	-	-	10?	-	-
1983-A70	2445608.34	1983 Sep 30 2006:04	Lance	-	393MST/4584	-	-	-	-	WS	LC33	-	-	10?	-	-
1983-A71	2445655.50	1983 Nov 17	Lance	-	394DSL/2230	-	-	-	-	WS	-	-	-	10?	-	-
1984-A48	2445759.33	1984 Feb 28 1948:23	Lance	-	395DSL/2549	-	-	-	-	WS	DON	-	-	10?	-	-
1984-A49	2445801.22	1984 Apr 10 1718:26	Lance	-	396APL/2549	-	-	-	-	WS	LC39	-	-	10?	-	-
1984-A50	2445803.02	1984 Apr 12 1225:03	Lance	-	397AST/2549	-	-	-	-	WS	LC39	-	-	10?	-	-
1984-A51	2445804.50	1984 Apr 14	Lance	-	398	-	-	-	-	WS	LER-4	-	-	10?	-	-
1984-A46	2445871.18	1984 Jun 19 1620	Lance	-	399DCL/5344	-	-	-	-	WS	LER-4	-	-	10?	-	-
1984-A45	2445990.50	1984 Oct 17	Lance	-	-	-	-	-	-	WS	LER-4	-	-	10?	-	-
1985-A25	2446117.50	1985 Feb 21	Lance	-	-	-	-	-	-	WS	LC33	-	-	10?	-	-
1985-A24	2446179.50	1985 Apr 24	Lance	-	405/2209	-	-	-	-	WS	-	-	-	10?	-	-
1986-A26	2446510.50	1986 Mar 21	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1986-A15	2446684.50	1986 Sep 11	Lance	-	PAC-1 Target	-	-	-	-	WS	-	-	-	5?	-	-
1987-A43	2446900.50	1987 Apr 15	Lance	-	-	-	-	-	-	WS	LER-4	-	-	10?	-	-
1987-A44	2446900.50	1987 Apr 15	Lance	-	-	-	-	-	-	WS	LER-4	-	-	10?	-	-
1987-A30	2446936.50	1987 May 21	Lance	-	FLAGE Target	-	-	-	-	WS	-	-	-	10?	-	-
1987-A45	2447067.50	1987 Sep 29	Lance	-	-	-	-	-	-	WS	LER-4	-	-	10?	-	-
1987-A46	2447067.50	1987 Sep 29	Lance	-	-	-	-	-	-	WS	LER-4	-	-	10?	-	-
1987-A47	2447104.50	1987 Nov 5	Lance	-	MGT-3-87	-	-	-	-	WS	-	-	-	10?	-	-
1987-A48	2447152.50	1987 Dec 23	Lance	-	428MMA/2393	-	-	-	-	WS	-	-	-	10?	-	-
1988-A99	2447214.50	1988 Feb 23	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1988-A100	2447300.50	1988 May 19	Lance	-	-	-	-	-	-	WS	LC33	-	-	10?	-	-
1988-A101	2447461.50	1988 Oct 27	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1989-A17	2447684.50	1989 Jun 7	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-A31	2447787.50	1989 Sep 18	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1989-A32	2447787.50	1989 Sep 18	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1991-A28	2448381.50	1991 May 5	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1992-A21	2448692.50	1992 Mar 11	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1992-A22	2448699.50	1992 Mar 18	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1992-A24	2448784.50	1992 Jun 11	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1992-A23	2448973.50	1992 Dec 17	Lance	-	Test firing	-	-	-	-	NAMFI	-	-	-	10?	-	-
1993-A18	2449146.50	1993 Jun 8	Lance	-	ERINT Target	-	-	-	-	WS	-	-	-	10?	-	-
1994-A09	2449616.50	1994 Sep 21	Lance	-	Hawk target	-	-	-	-	WS	-	-	-	10?	-	-
1994-A10	2449616.50	1994 Sep 21	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1994-A11	2449616.50	1994 Sep 21	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1995-A11	2449960.50	1995 Sep	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1995-A08	2450058.50	1995 Dec 7	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	10?	-	-
1995-A09	2450059.50	1995 Dec 8	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	10?	-	-
1995-A10	2450059.50	1995 Dec 8	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	10?	-	-
1996-A17	2450309.50	1996 Aug 14	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A18	2450310.50	1996 Aug 15	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A19	2450316.50	1996 Aug 21	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A12	2450317.50	1996 Aug 22	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A14	2450323.50	1996 Aug 28	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A20	2450325.50	1996 Aug 30	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1996-A15	2450424.50	1996 Dec 7	Lance	-	Hawk Target	-	-	-	-	WS	-	-	-	20?	-	-
1997-A57	2450473.15	1997 Jan 24 1530?	Lance	-	Aegis Target	-	-	-	-	WS	-	-	-	40?	-	-
2000-A11	2451893.50	2000 Dec 15	Lance	-	Patriot Target	-	-	-	-	WS	-	-	-	10?	-	-
2002-A23	2452535.50	2002 Sep 18	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
2002-A24	2452535.50	2002 Sep 18	Lance	-	-	-	-	-	-	WS	-	-	-	10?	-	-
2003-A24	2452639.50	2003 Q1	Lance	-	RRF	MLP Test (FY03)	-	-	MLP	PM?	-	-	-	40?	-	-
2003-A25	2452639.50	2003 Q1	Lance	-	RRF	MLP Test (FY03)	-	-	MLP	PM?	-	-	-	40?	-	-
2006-A09	2453879.50	2006 May 24	Lance	-	Aegis SBT Target	Unitary SRT	-	-	-	KAU	-	-	-	40?	-	-
2009-M02	2454917.31	2009 Mar 26 1920?	Lance	-	Aegis SM-2 target	SRT	-	-	-	SNI	-	-	-	50?	-	-
2013-A33	2456473.50	2013 Jul	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A34	2456473.50	2013 Jul?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A35	2456473.50	2013 Jul?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A36	2456504.50	2013 Aug?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A37	2456504.50	2013 Aug?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A38	2456535.50	2013 Sep?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A39	2456535.50	2013 Sep?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A40	2456565.50	2013 Oct?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A41	2456565.50	2013 Oct?	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2013-A42	2456602.50	2013 Nov 6	Lance	-	MEADS Target	-	-	-	-	WS?	-	-	-	10?	-	-
2015-A54	2457091.50	2015 Mar 10	Lance	-	Risk Reduction	-	-	-	-	WS?	-	-	-	10?	-	-
2015-S42	2457232.85	2015 Jul 29 0830	Lance	-	Aegis MMW E1 Target	Stellar War Ax	Multi-Mission Warfare	-	-	KAU	-	-	-	20?	-	-
2015-S43	2457233.76	2015 Jul 30 0615	Lance	-	Aegis MMW E2 Target	-	-	-	-	KAU	-	-	-	20?	-	-
2016-A109	2457736.50	2016 DEc 14	Lance	-	SM-6 Target	-	-	-	-	KAU	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-A235	2438834.50	1965 Mar 15	Lance	-	XMGM-52A FT-1	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1965-A246	2438865.50	1965 Apr 15	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A247	2438880.50	1965 May	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A248	2438962.50	1965 Jul 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A241	2438975.50	1965 Aug 3	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	Or Aug 5
1965-A242	2438990.50	1965 Aug 18	Lance	-	FT-5	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A249	2438972.50	1965 Aug	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A250	2439024.50	1965 Sep 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A251	2439026.50	1965 Sep 23	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A252	2439043.50	1965 Oct 10	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A253	2439064.50	1965 Nov	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A243	2439082.50	1965 Nov 18	Lance	-	FT-12	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A254	2439094.50	1965 Dec	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A255	2439094.50	1965 Dec	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1965-A256	2439094.50	1965 Dec	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A614	2439151.50	1966 Jan 26	Lance	-	16	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A615	2439223.50	1966 Apr 8	Lance	-	17RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A616	2439230.50	1966 Apr 15	Lance	-	18RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A617	2439243.50	1966 Apr 28	Lance	-	19RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A610	2439249.50	1966 May 4	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A618	2439272.50	1966 May 27	Lance	-	20RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A619	2439300.50	1966 Jun 24	Lance	-	21RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A611	2439306.50	1966 Jun 30	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A620	2439307.50	1966 Jul 1	Lance	-	22	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A621	2439312.50	1966 Jul 6	Lance	-	23	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A612	2439333.50	1966 Jul 27	Lance	-	FT-27	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A622	2439321.50	1966 Jul 15	Lance	-	24RGT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A623	2439328.50	1966 Jul 22	Lance	-	25RSL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A624	2439333.50	1966 Jul 27	Lance	-	26	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A625	2439342.50	1966 Aug 5	Lance	-	27RST	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A626	2439347.50	1966 Aug 10	Lance	-	28RMT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A627	2439349.50	1966 Aug 12	Lance	-	29RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A613	2439367.50	1966 Aug 30	Lance	-	30RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A628	2439375.50	1966 Sep 7	Lance	-	31RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A629	2439381.50	1966 Sep 13	Lance	-	32RGT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A591	2439396.50	1966 Sep 28	Lance	-	XR33RBL	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1966-A592	2439396.50	1966 Sep 28	Lance	-	34	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1966-A593	2439401.50	1966 Oct 3	Lance	-	EM Test 6	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1966-A630	2439425.50	1966 Oct 27	Lance	-	35RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A631	2439433.50	1966 Nov 4	Lance	-	36RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A632	2439438.50	1966 Nov 9	Lance	-	37RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1966-A633	2439458.50	1966 Nov 29	Lance	-	38RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A177	2439548.50	1967 Feb 27	Lance	-	39RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A178	2439559.50	1967 Mar 10	Lance	-	40RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A179	2439570.50	1967 Mar 21	Lance	-	41RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A180	2439580.50	1967 Mar 31	Lance	-	42RST	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A181	2439594.50	1967 Apr 14	Lance	-	43RMT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A182	2439606.50	1967 Apr 26	Lance	-	44RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A183	2439608.50	1967 Apr 28	Lance	-	45	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A184	2439635.50	1967 May 25	Lance	-	46RMT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A162	2439641.50	1967 Jun	Lance	-	Air drop test	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1967-A163	2439641.50	1967 Jun	Lance	-	Air drop test	0.000	MICOM	MF	U	-	Test	army.mil	-	-
1967-A174	2439643.50	1967 Jun 2	Lance	-	P-60	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A185	2439653.50	1967 Jun 12?	Lance	-	47RMT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A175	2439671.50	1967 Jun 30	Lance	-	48RMT	0.000	MICOM	MF	U	-	Test	Ulrich/WSMR	-	-
1967-A186	2439731.50	1967 Aug 29	Lance	-	49RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A187	2439746.50	1967 Sep 13	Lance	-	50RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A188	2439755.50	1967 Sep 22	Lance	-	51RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A189	2439762.50	1967 Sep 29	Lance	-	52RPL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A176	2439780.50	1967 Oct 17	Lance	-	53RSL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1967-A161	2439783.50	1967 Oct 20	Lance	-	54RBL	0.000	MICOM	MF	U	-	Test	army.mil	-	-
1967-A190	2439833.50	1967 Dec 9	Lance	-	55RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A150	2439858.50	1968 Jan 3	Lance	-	56RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A151	2439909.50	1968 Feb 23	Lance	-	57RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A152	2440004.50	1968 May 28	Lance	-	58RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A153	2440027.50	1968 Jun 20	Lance	-	59RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A132	2440098.50	1968 Aug 30	Lance	-	60RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	army.mil	-
1968-A156	2440124.50	1968 Sep 25	Lance	-	61RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1968-A157	2440147.50	1968 Oct 18	Lance	-	62RPT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A234	2440243.50	1969 Jan 22	Lance	-	63	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A231	2440248.50	1969 Jan 27	Lance	-	64RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A218	2440280.50	1969 Mar	Lance	-	Recert flight 5	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1969-A219	2440293.50	1969 Mar 13	Lance	-	XRL Test 1	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1969-A235	2440311.50	1969 Apr	Lance	-	65RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A232	2440349.50	1969 May 8	Lance	-	66RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A236	2440354.50	1969 May 13	Lance	-	67RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A220	2440413.50	1969 Jul 11	Lance	-	XRL Test	0.000	MICOM	MF	U	-	Test	army.mil	-	-
1969-A237	2440474.50	1969 Sep 10	Lance	-	68RGT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A238	2440496.50	1969 Oct 2	Lance	-	69RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A239	2440516.50	1969 Oct 22	Lance	-	70	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A221	2440518.50	1969 Oct 24	Lance	-	XRL Test	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1969-A240	2440522.50	1969 Oct 28	Lance	-	71	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A241	2440537.50	1969 Nov 12	Lance	-	72	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1969-A242	2440565.50	1969 Dec 10	Lance	-	73	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A191	2440598.50	1970 Jan 12	Lance	-	74	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A192	2440614.50	1970 Jan 28	Lance	-	75	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A193	2440621.50	1970 Feb 4	Lance	-	76RMT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A177	2440651.50	1970 Mar 6	Lance	-	77ST	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1970-A194	2440659.50	1970 Mar 14	Lance	-	78RST	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A195	2440664.50	1970 Mar 19	Lance	-	79RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A196	2440671.50	1970 Mar 26	Lance	-	80RML	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A197	2440682.50	1970 Apr 6	Lance	-	81RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A198	2440691.50	1970 Apr 15	Lance	-	82	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A199	2440676.50	1970 Apr	Lance	-	83	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A200	2440706.50	1970 Apr 30	Lance	-	84RBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A201	2440721.50	1970 May 15	Lance	-	85RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A202	2440725.50	1970 May 19	Lance	-	86RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A203	2440734.50	1970 May 28	Lance	-	87RGL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A204	2440762.50	1970 Jun 25	Lance	-	88	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A205	2440767.50	1970 Jun 30	Lance	-	89RGT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A206	2440773.50	1970 Jul 6	Lance	-	90	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A207	2440788.50	1970 Jul 21	Lance	-	91	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A208	2440790.50	1970 Jul 23	Lance	-	92	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A209	2440795.50	1970 Jul 28	Lance	-	93	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A210	2440798.50	1970 Jul 31	Lance	-	94	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A211	2440804.50	1970 Aug 6	Lance	-	95	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A212	2440811.50	1970 Aug 13	Lance	-	96	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A213	2440818.50	1970 Aug 20	Lance	-	97	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A214	2440825.50	1970 Aug 27	Lance	-	98R	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A215	2440829.50	1970 Sep	Lance	-	99	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A216	2440829.50	1970 Sep	Lance	-	100	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A217	2440859.50	1970 Oct	Lance	-	101	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A218	2440859.50	1970 Oct	Lance	-	102	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A219	2440859.50	1970 Oct	Lance	-	103	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A220	2440859.50	1970 Oct	Lance	-	104	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A221	2440890.50	1970 Nov	Lance	-	105	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A222	2440890.50	1970 Nov	Lance	-	106	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A223	2440920.50	1970 Dec	Lance	-	107	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1970-A224	2440920.50	1970 Dec	Lance	-	108	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A231	2440951.50	1971 Jan	Lance	-	109	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A232	2440982.50	1971 Feb	Lance	-	110	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A233	2441010.50	1971 Mar	Lance	-	111	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A234	2441010.50	1971 Mar	Lance	-	112	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A235	2441071.50	1971 May	Lance	-	113	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A236	2441071.50	1971 May	Lance	-	114	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A237	2441102.50	1971 Jun	Lance	-	115	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A238	2441102.50	1971 Jun	Lance	-	116	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A239	2441102.50	1971 Jun	Lance	-	117	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A240	2441132.50	1971 Jul	Lance	-	118	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A241	2441132.50	1971 Jul	Lance	-	119	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A242	2441132.50	1971 Jul	Lance	-	120	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A243	2441163.50	1971 Aug	Lance	-	121	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A244	2441163.50	1971 Aug	Lance	-	122	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A212	2441176.50	1971 Aug 13	Lance	-	123	0.000	MICOM	MF	U	-	Test	army.mil	-	-
1971-A246	2441183.50	1971 Aug 20	Lance	-	124SBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A247	2441190.50	1971 Aug 27	Lance	-	125SBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A248	2441197.50	1971 Sep 3	Lance	-	126RCT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A249	2441211.50	1971 Sep 17	Lance	-	127SET	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A250	2441215.50	1971 Sep 21	Lance	-	128	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A251	2441218.50	1971 Sep 24	Lance	-	129SBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A252	2441225.50	1971 Oct 1	Lance	-	130ESL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A253	2441239.50	1971 Oct 15	Lance	-	131SBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A226	2441267.50	1971 Nov 12	Lance	-	132RBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A254	2441255.50	1971 Nov	Lance	-	133SBT	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A227	2441278.50	1971 Nov 23	Lance	-	134SBL	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A213	2441285.50	1971 Nov 30	Lance	-	135EST	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A228	2441288.50	1971 Dec 3	Lance	-	136	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A245	2441292.50	1971 Dec 7	Lance	-	137	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A229	2441294.50	1971 Dec 9	Lance	-	138RMT/5129	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1971-A230	2441295.50	1971 Dec 10	Lance	-	139SBT/2107	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A169	2441316.50	1972 Jan	Lance	-	140SPL/2108	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A170	2441341.50	1972 Jan 25	Lance	-	141SPL/2106	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A171	2441344.50	1972 Jan 28	Lance	-	142ESL/2110	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A172	2441351.50	1972 Feb 4	Lance	-	143SPT/2127	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A173	2441355.50	1972 Feb 8	Lance	-	144SSL/2102	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A174	2441358.50	1972 Feb 11	Lance	-	145ESL/2135	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A161	2441362.50	1972 Feb 15	Lance	-	146SST/2141	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A162	2441365.50	1972 Feb 18	Lance	-	147SST/2142	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A175	2441372.50	1972 Feb 25	Lance	-	148ESL/2122	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A176	2441375.50	1972 Feb 28	Lance	-	149SST/2136	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A163	2441379.50	1972 Mar 3	Lance	-	150EBT/2140	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A177	2441383.50	1972 Mar 7	Lance	-	151SBL/2101	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A178	2441392.50	1972 Mar 16	Lance	-	152EST/2119	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A164	2441397.50	1972 Mar 21	Lance	-	153EBT/2126	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A179	2441400.50	1972 Mar 24	Lance	-	154EBT/2116	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A180	2441376.50	1972 Mar	Lance	-	155	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A181	2441403.50	1972 Mar 27	Lance	-	156EST/2131	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A165	2441427.50	1972 Apr 20	Lance	-	157SPL/2146	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A182	2441456.50	1972 May 19	Lance	-	158SPT/2166	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A183	2441469.50	1972 Jun 1	Lance	-	159EPT/2143	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A184	2441489.50	1972 Jun 21	Lance	-	160EST/2168	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A185	2441505.50	1972 Jul 7	Lance	-	161SPT/2159	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A186	2441316.50	1972	Lance	-	162	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A187	2441585.50	1972 Sep 25	Lance	-	163RBL/2154	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A166	2441589.50	1972 Sep 29	Lance	-	164ESL/5175	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A188	2441608.50	1972 Oct 18	Lance	-	165RBT/2138	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A189	2441627.50	1972 Nov 6	Lance	-	166EET/2310	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A190	2441629.50	1972 Nov 8?	Lance	-	167APT/2183	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A168	2441631.20	1972 Nov 9 1650	Lance	-	168APT/2184	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A191	2441631.38	1972 Nov 9 2100	Lance	-	169APL/2186	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A192	2441635.50	1972 Nov 14	Lance	-	170APT/2353	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A193	2441638.50	1972 Nov 17	Lance	-	171 /2177	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A194	2441638.50	1972 Nov 17	Lance	-	172 /2184	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A195	2441638.50	1972 Nov 17	Lance	-	173 /2188	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A196	2441652.50	1972 Dec 1	Lance	-	174ESL/2150	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A197	2441657.50	1972 Dec 6	Lance	-	175RCT/2147	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A198	2441664.50	1972 Dec 13	Lance	-	176SST/2170	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A167	2441669.50	1972 Dec 18	Lance	-	177EST/2352	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A199	2441672.50	1972 Dec 21	Lance	-	178SST/2148	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A200	2441673.50	1972 Dec 22	Lance	-	179EST/2351	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1972-A201	2441673.50	1972 Dec 22	Lance	-	180EET/2148	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A101	2441691.50	1973 Jan 9	Lance	-	181SST/2174	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A123	2441698.50	1973 Jan 16	Lance	-	182EST/2354	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A102	2441701.50	1973 Jan 19	Lance	-	183EST/2176	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A103	2441705.50	1973 Jan 23	Lance	-	184EST/2355	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A104	2441740.50	1973 Feb 27	Lance	-	185RCL/2237	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A105	2441791.50	1973 Apr 19	Lance	-	186RCT/2239	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A106	2441806.50	1973 May 4	Lance	-	187RCT/2238	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A107	2441854.50	1973 Jun 21	Lance	-	188RCT/2169	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A108	2441855.50	1973 Jun 22	Lance	-	189RSL/2426	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A109	2441890.50	1973 Jul 27	Lance	-	190RCT/2164	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A110	2441916.50	1973 Aug 22	Lance	-	191RST/2356	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A111	2441920.50	1973 Aug 26	Lance	-	192RCL/2165	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A112	2441938.50	1973 Sep 13	Lance	-	193RCT/2121	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A113	2441951.50	1973 Sep 26	Lance	-	194APT/2195	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A114	2441951.50	1973 Sep 26	Lance	-	195APT/2198	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A115	2441953.50	1973 Sep 28	Lance	-	196APT/2500	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A116	2441959.50	1973 Oct 4	Lance	-	197APT/2207	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A117	2441959.50	1973 Oct 4	Lance	-	198APT/2190	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A118	2441955.50	1973 Oct	Lance	-	199APT/2191	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A124	2441955.50	1973 Oct	Lance	-	200APT/2187	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A119	2441973.50	1973 Oct 18	Lance	-	201APT/2192	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A120	2441973.50	1973 Oct 18	Lance	-	202APT/2204	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A121	2441974.50	1973 Oct 19	Lance	-	203RCT/2161	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1973-A122	2442029.50	1973 Dec 13	Lance	-	204RCT/2527	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A92	2442071.50	1974 Jan 24	Lance	-	205APT/2201	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A93	2442071.50	1974 Jan 24	Lance	-	206APT/2208	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A88	2442078.50	1974 Jan 31	Lance	-	207APT/2210	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A94	2442078.50	1974 Jan 31	Lance	-	208APT/2205	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A95	2442085.50	1974 Feb 7	Lance	-	209APT/2203	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A96	2442085.50	1974 Feb 7	Lance	-	210APT/2579	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A97	2442078.50	1974 Feb	Lance	-	211RST/2118	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A98	2442141.50	1974 Apr 4	Lance	-	212APT/2217	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A99	2442141.50	1974 Apr 4	Lance	-	213APT/2218	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A89	2442148.50	1974 Apr 11	Lance	-	214APT/2563	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A90	2442148.50	1974 Apr 11	Lance	-	215APT/2476	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A100	2442149.50	1974 Apr 12	Lance	-	216RCT/2158	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A101	2442155.50	1974 Apr 18	Lance	-	217APT/2565	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A102	2442155.50	1974 Apr 18	Lance	-	218APT/2566	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A103	2442160.50	1974 Apr 23	Lance	-	219RTT/5132	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A104	2442162.50	1974 Apr 25	Lance	-	220APT/2196	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A105	2442163.50	1974 Apr 26	Lance	-	221SCT/2155	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A106	2442169.50	1974 May 2	Lance	-	222SCT/2134	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A107	2442174.50	1974 May 7	Lance	-	223RST/2732	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A108	2442176.50	1974 May 9	Lance	-	224SCT/2246	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A109	2442182.50	1974 May 15	Lance	-	225SCT/2243	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A110	2442190.50	1974 May 23	Lance	-	226SCT/2244	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A111	2442205.50	1974 Jun 7	Lance	-	227ECL/2245	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A112	2442211.50	1974 Jun 13	Lance	-	228ECT/2172	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A113	2442219.50	1974 Jun 21	Lance	-	229ECT/2173	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A114	2442226.50	1974 Jun 28	Lance	-	230ECL/2242	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A115	2442239.50	1974 Jul 11	Lance	-	231APT/2559	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A116	2442239.50	1974 Jul 11	Lance	-	232APT/2561	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A117	2442240.50	1974 Jul 12	Lance	-	233RST/2189	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A118	2442245.50	1974 Jul 17	Lance	-	234RSL/2791	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A119	2442246.50	1974 Jul 18	Lance	-	234APT/2212	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A91	2442246.50	1974 Jul 18	Lance	-	236APT/2562	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A120	2442253.50	1974 Jul 25	Lance	-	237APT/2220	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A121	2442253.50	1974 Jul 25	Lance	-	238APT/2214	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A122	2442321.50	1974 Oct 1	Lance	-	239APT/2900	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A123	2442323.50	1974 Oct 3	Lance	-	240APT/2224	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A124	2442323.50	1974 Oct 3	Lance	-	241APT/2228	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A125	2442330.50	1974 Oct 10	Lance	-	242APT/2225	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A126	2442330.50	1974 Oct 10	Lance	-	243APT/2221	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A127	2442337.50	1974 Oct 17	Lance	-	244APT/2229	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A128	2442337.50	1974 Oct 17	Lance	-	245APT/2231	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A129	2442344.50	1974 Oct 24	Lance	-	246AST/2901	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A130	2442344.50	1974 Oct 24	Lance	-	247AST/2226	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-A131	2442366.50	1974 Nov 15	Lance	-	248AST/2598	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A132	2442366.50	1974 Nov 15	Lance	-	249AST/2599	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A133	2442366.50	1974 Nov 15	Lance	-	250AST/2612	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A134	2442377.50	1974 Nov 26	Lance	-	251AST/2193	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A135	2442386.50	1974 Dec 5	Lance	-	252AST/2977	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A136	2442386.50	1974 Dec 5	Lance	-	253AST/2978	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A137	2442386.50	1974 Dec 5	Lance	-	254AST/2979	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A138	2442386.50	1974 Dec 5	Lance	-	255AST/2983	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A139	2442387.50	1974 Dec 6	Lance	-	256AST/2984	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1974-A140	2442387.50	1974 Dec 6	Lance	-	257AST/2987	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A95	2442456.50	1975 Feb 13	Lance	-	258AST/3037	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A87	2442456.50	1975 Feb 13	Lance	-	259APT/2213	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A88	2442456.50	1975 Feb 13	Lance	-	260APT/2232	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A96	2442456.50	1975 Feb 13	Lance	-	261APT/2234	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A97	2442547.50	1975 May 15	Lance	-	262RSL/3195	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A89	2442553.50	1975 May 21	Lance	-	263APT/2608	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A90	2442553.50	1975 May 21	Lance	-	264APT/2609	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A85	2442562.50	1975 May 30	Lance	-	265AST/3258	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A91	2442562.50	1975 May 30	Lance	-	266APT/2610	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A98	2442706.50	1975 Oct 21	Lance	-	267AST/2202	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A99	2442685.50	1975 Oct	Lance	-	268RST/3389	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A92	2442727.50	1975 Nov 11	Lance	-	269RST/2435	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A100	2442706.50	1975 Oct 21	Lance	-	270RST/3251	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A93	2442735.50	1975 Nov 19	Lance	-	271ECT/2640	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1975-A94	2442735.50	1975 Nov 19	Lance	-	272APT/2620	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A143	2442820.50	1976 Feb 12	Lance	-	273ECL/2152	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A144	2442837.50	1976 Mar	Lance	-	274ECL/2163	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A145	2442837.50	1976 Mar	Lance	-	275ECL/2240	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A146	2442868.50	1976 Apr	Lance	-	276ECL/2160	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A147	2442868.50	1976 Apr	Lance	-	277AST/2711	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A148	2442868.50	1976 Apr	Lance	-	278RSL/3667	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A149	2442968.50	1976 Jul 9	Lance	-	279ACL/3075	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A150	2442972.50	1976 Jul 13	Lance	-	280RML/2211	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A141	2442974.50	1976 Jul 15	Lance	-	281APT/3203	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A152	2442974.50	1976 Jul 15	Lance	-	282RPT/3796	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A153	2442981.50	1976 Jul 22	Lance	-	283APT/3205	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A142	2442983.09	1976 Jul 23 1403	Lance	-	284ACT/3206	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A154	2442989.17	1976 Jul 29 1600	Lance	-	285APT/3208	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A155	2442989.19	1976 Jul 29 1630	Lance	-	286APT/3207	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A156	2443052.07	1976 Sep 30 1346	Lance	-	287ACT/2511	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A157	2443052.33	1976 Sep 30 2000	Lance	-	288AST/2714	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A158	2443059.09	1976 Oct 7 1416	Lance	-	289RST/2473	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A159	2443059.27	1976 Oct 7 1830	Lance	-	290RST/3932	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A160	2443067.10	1976 Oct 15 1420	Lance	-	291ECT/2162	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1976-A161	2443072.33	1976 Oct 20 2000	Lance	-	292ECL/2241	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A85	2443157.71	1977 Jan 14 0500	Lance	-	293RCL/2200	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A81	2443162.38	1977 Jan 18 2101	Lance	-	294RSL/4043	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A86	2443255.16	1977 Apr 21 1550	Lance	-	295RCL/4106	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A87	2443294.50	1977 Jun	Lance	-	296	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A84	2443297.35	1977 Jun 2 2020	Lance	-	297APT/3325	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A58	2443325.50	1977 Jul 1	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	army.mil	-	-
1977-A83	2443329.50	1977 Jul 5	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-
1977-A88	2443380.12	1977 Aug 24 1500	Lance	-	298APT/3292	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A89	2443381.38	1977 Aug 25 2108	Lance	-	299RSL/4236	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A82	2443422.20	1977 Oct 5 1645	Lance	-	300AST/3293	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A90	2443422.23	1977 Oct 5 1729	Lance	-	301APL/3294	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A91	2443423.12	1977 Oct 6 1449	Lance	-	302RSL/2215	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A92	2443458.30	1977 Nov 10 1915	Lance	-	303APT/3296	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A93	2443481.16	1977 Dec 3 1553	Lance	-	304ESL/3298	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A94	2443485.14	1977 Dec 7 1518	Lance	-	305NCL/4285	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1977-A95	2443486.28	1977 Dec 8 1848	Lance	-	306DST/2478	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A76	2443521.47	1978 Jan 12 2316	Lance	-	307ESL/3331	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A74	2443528.15	1978 Jan 19 1532	Lance	-	308ESL/3504	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A77	2443534.27	1978 Jan 25 1833	Lance	-	309APT/3315	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A78	2443534.50	1978 Jan 26 0000	Lance	-	310APT/3316	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A79	2443564.42	1978 Feb 24 2206	Lance	-	311ESL/3317	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A69	2443569.50	1978 Mar 2	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	army.mil	-	-
1978-A80	2443571.44	1978 Mar 3 2230	Lance	-	312ESL/3314	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A81	2443583.46	1978 Mar 15 2257	Lance	-	313APT/2835	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A82	2443674.35	1978 Jun 14 2030	Lance	-	314AST/3329	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A83	2443675.12	1978 Jun 15 1450	Lance	-	315ACT/3330	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A84	2443703.08	1978 Jul 13 1400	Lance	-	316ESL/3338	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A85	2443710.25	1978 Jul 20 1800	Lance	-	317RCL/3370	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A86	2443746.11	1978 Aug 25 1437	Lance	-	318NPL/4444	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A87	2443751.50	1978 Sep?	Lance	-	319	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A75	2443757.50	1978 Sep 6	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-
1978-A88	2443802.31	1978 Oct 20 1930	Lance	-	320DST/2219	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A89	2443802.42	1978 Oct 20 2212	Lance	-	321ACT/3324	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A90	2443781.50	1978 Oct?	Lance	-	322	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A91	2443815.21	1978 Nov 2 1706	Lance	-	323ESL/3306	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1978-A92	2443858.21	1978 Dec 15 1702	Lance	-	324NPL/4661	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A65	2443892.16	1979 Jan 18 1547	Lance	-	325DSL/2486	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A66	2443935.22	1979 Mar 2 1719	Lance	-	326ESL/4347	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A67	2443941.15	1979 Mar 8 1530	Lance	-	327ECL/3382	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A68	2443974.24	1979 Apr 10 1743	Lance	-	328APT/3398	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A69	2443989.35	1979 Apr 25 2030	Lance	-	329APT/4355	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-A70	2443990.16	1979 Apr 26 1546	Lance	-	330ACL/4388	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A71	2443996.19	1979 May 2 1629	Lance	-	331APT/3390	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A72	2443993.50	1979 May	Lance	-	332NCL/4724	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A73	2444046.13	1979 Jun 21 1510	Lance	-	333APL/3396	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A74	2444053.25	1979 Jun 28 1803	Lance	-	334AST/4390	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A75	2444099.38	1979 Aug 13 2100	Lance	-	335NCL/4819	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A59	2444141.36	1979 Sep 24 2032	Lance	-	336ESL/3312	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A76	2444158.08	1979 Oct 11 1400	Lance	-	337DSL/2222	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A60	2444186.10	1979 Nov 8 1430	Lance	-	338NCL/4883	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1979-A77	2444213.45	1979 Dec 5 2250	Lance	-	339DSL/2491	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A67	2444242.12	1980 Jan 3 1457	Lance	-	340ECL/3357	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A68	2444298.47	1980 Feb 28 2315:03	Lance	-	341NCL/3871	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A69	2444304.18	1980 Mar 5 1619:01	Lance	-	342ECL/4998	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A70	2444341.16	1980 Apr 11 1555	Lance	-	343NCL/3717	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A71	2444346.12	1980 Apr 16 1500	Lance	-	344ECL/5093	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A62	2444355.11	1980 Apr 25 1437	Lance	-	345ECL/4382	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A72	2444362.09	1980 May 2 1409	Lance	-	346ECL/4362	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A73	2444369.30	1980 May 9 1908	Lance	-	347AST/4570	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A74	2444371.92	1980 May 12 0959	Lance	-	348APT/4556	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A75	2444372.09	1980 May 12 1415	Lance	-	349APT/2419	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A63	2444408.10	1980 Jun 17 1421:38	Lance	-	350ECL/3974	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A76	2444411.09	1980 Jun 20 1405:32	Lance	-	351ECL/4244	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A77	2444422.11	1980 Jul 1 1443	Lance	-	352ECL/4379	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A78	2444425.38	1980 Jul 4 2100	Lance	-	353NPL/5194	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A79	2444431.07	1980 Jul 10 1335	Lance	-	354ECL/4240	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A80	2444511.94	1980 Sep 29 1031	Lance	-	355APT/4520	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A81	2444513.14	1980 Sep 30 1517	Lance	-	356DST/2227	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A82	2444514.35	1980 Oct 1 2017	Lance	-	357APT/4571	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A59	2444515.19	1980 Oct 2 1634	Lance	-	358NSL/5302	0.000	MICOM	MS	-	-	Test	SandNews810123	-	-
1980-A83	2444526.08	1980 Oct 13 1400	Lance	-	359APT/4545	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1980-A84	2444585.14	1980 Dec 11 1520	Lance	-	360DSL/2513	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A41	2444655.25	1981 Feb 19 1800	Lance	-	361APT/4243	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A42	2444659.17	1981 Feb 23 1606	Lance	-	362APT/4246	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A43	2444663.21	1981 Feb 27 1702	Lance	-	363APL/4275	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A44	2444768.28	1981 Jun 12 1845	Lance	-	364APT/4575	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A45	2444772.32	1981 Jun 16 1936:39	Lance	-	365APT/5338	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A46	2444775.36	1981 Jun 19 2034:52	Lance	-	366AST/5339	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A47	2444802.17	1981 Jul 16 1600	Lance	-	367MCL/4572	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A48	2444880.17	1981 Oct 2 1600	Lance	-	368MSL/5336	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A49	2444911.37	1981 Nov 2 2054	Lance	-	369DST/2518	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A50	2444915.31	1981 Nov 6 1921:34	Lance	-	370APT/4576	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A51	2444922.01	1981 Nov 13 1211	Lance	-	371APT/4579	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A52	2444925.16	1981 Nov 16 1545	Lance	-	372APT/4573	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1981-A53	2444938.50	1981 Dec?	Lance	-	373	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A57	2445026.17	1982 Feb 25 1606	Lance	-	374MSL/4577	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A59	2445101.09	1982 May 11 1415	Lance	-	375MCT/5356	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A60	2445103.50	1982 May 14	Lance	-	376AST/5357	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A58	2445107.13	1982 May 17 1506:06	Lance	-	377APT/4580	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A61	2445110.13	1982 May 20 1510:03	Lance	-	378AST/5358	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A62	2445273.46	1982 Oct 30 2300:47	Lance	-	379DSL/2233	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A63	2445279.15	1982 Nov 5 1530:04	Lance	-	380MSL/4581	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1982-A64	2445310.48	1982 Dec 6 2332:35	Lance	-	381DSL/2540	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A59	2445403.50	1983 Mar 10	Lance	-	382MCL/4582	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A60	2445393.50	1983 Mar?	Lance	-	383	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A61	2445451.18	1983 Apr 26 1618:48	Lance	-	384MST/4849	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A62	2445455.00	1983 Apr 30 1200	Lance	-	385APT/4850	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A63	2445459.13	1983 May 4 1507:28	Lance	-	386APL/4583	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A64	2445465.30	1983 May 10 1915:05	Lance	-	387ACT/4585	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A65	2445501.48	1983 Jun 15 2330:04	Lance	-	388MSL/5355	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A66	2445508.48	1983 Jun 22 2330:04	Lance	-	389MSL/5337	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A67	2445600.65	1983 Sep 23 0329:20	Lance	-	390APL/4587	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A68	2445603.50	1983 Sep 26	Lance	-	391ACL/5354	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A69	2445606.49	1983 Sep 28 2344:22	Lance	-	392APL/4586	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A70	2445608.34	1983 Sep 30 2006:04	Lance	-	393MST/4584	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1983-A71	2445655.50	1983 Nov 17	Lance	-	394DSL/2230	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A48	2445759.33	1984 Feb 28 1948:23	Lance	-	395DSL/2549	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A49	2445801.22	1984 Apr 10 1718:26	Lance	-	396APL/2549	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A50	2445803.02	1984 Apr 12 1225:03	Lance	-	397AST/2549	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A51	2445804.50	1984 Apr 14	Lance	-	398	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A46	2445871.18	1984 Jun 19 1620	Lance	-	399DCL/5344	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1984-A45	2445990.50	1984 Oct 17	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1985-A25	2446117.50	1985 Feb 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1985-A24	2446179.50	1985 Apr 24	Lance	-	405/2209	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1986-A26	2446510.50	1986 Mar 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1986-A15	2446684.50	1986 Sep 11	Lance	-	PAC-1 Target	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1987-A43	2446900.50	1987 Apr 15	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1987-A44	2446900.50	1987 Apr 15	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1987-A30	2446936.50	1987 May 21	Lance	-	FLAGE Target	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1987-A45	2447067.50	1987 Sep 29	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1987-A46	2447067.50	1987 Sep 29	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1987-A47	2447104.50	1987 Nov 5	Lance	-	MGT-3-87	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1987-A48	2447152.50	1987 Dec 23	Lance	-	428MMA/2393	0.000	MICOM	MF	U	-	Test	Ulrich/WSMR	-	-
1988-A99	2447214.50	1988 Feb 23	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1988-A100	2447300.50	1988 May 19	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1988-A101	2447461.50	1988 Oct 27	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1989-A17	2447684.50	1989 Jun 7	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-A31	2447787.50	1989 Sep 18	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1989-A32	2447787.50	1989 Sep 18	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1991-A28	2448381.50	1991 May 5	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1992-A21	2448692.50	1992 Mar 11	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-
1992-A22	2448699.50	1992 Mar 18	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-
1992-A24	2448784.50	1992 Jun 11	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1992-A23	2448973.50	1992 Dec 17	Lance	-	Test firing	0.000	BWEHR	MS	-	-	Test	Ulrich	-	-
1993-A18	2449146.50	1993 Jun 8	Lance	-	ERINT Target	0.000	MICOM	MS	-	-	Test	army.mil	-	-
1994-A09	2449616.50	1994 Sep 21	Lance	-	Hawk target	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1994-A10	2449616.50	1994 Sep 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1994-A11	2449616.50	1994 Sep 21	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1995-A11	2449960.50	1995 Sep	Lance	-	-	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1995-A08	2450058.50	1995 Dec 7	Lance	-	Hawk Target	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1995-A09	2450059.50	1995 Dec 8	Lance	-	Hawk Target	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1995-A10	2450059.50	1995 Dec 8	Lance	-	Hawk Target	0.000	MICOM	MS	-	-	Test	Ulrich/WSMR	-	-
1996-A17	2450309.50	1996 Aug 14	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	Ulrich/WSMR	-	-
1996-A18	2450310.50	1996 Aug 15	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	Ulrich/WSMR	-	-
1996-A19	2450316.50	1996 Aug 21	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	Ulrich/WSMR	-	-
1996-A12	2450317.50	1996 Aug 22	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	smdc.army.mil	-	-
1996-A14	2450323.50	1996 Aug 28	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	smdc.army.mil	-	-
1996-A20	2450325.50	1996 Aug 30	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	Ulrich/WSMR	-	-
1996-A15	2450424.50	1996 Dec 7	Lance	-	Hawk Target	0.000	BMDO	MS	-	-	Test	osd.mil/bmdo	-	-
1997-A57	2450473.15	1997 Jan 24 1530?	Lance	-	Aegis Target	0.000	BMDO	MS	-	-	Test	www.mda.mil	-	-
2000-A11	2451893.50	2000 Dec 15	Lance	-	Patriot Target	0.000	AMCOM	MS	-	-	Test	Ulrich/WSMR	-	-
2002-A23	2452535.50	2002 Sep 18	Lance	-	-	0.000	AMCOM	MS	-	-	Test	Ulrich/WSMR	-	-
2002-A24	2452535.50	2002 Sep 18	Lance	-	-	0.000	AMCOM	MS	-	-	Test	Ulrich/WSMR	-	-
2003-A24	2452639.50	2003 Q1	Lance	-	RRF	0.000	MDA	MS	-	-	Test	MDABudget04	-	-
2003-A25	2452639.50	2003 Q1	Lance	-	RRF	0.000	MDA	MS	-	-	Test	MDABudget04	-	-
2006-A09	2453879.50	2006 May 24	Lance	-	Aegis SBT Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	youtube/AlIUOfF19aQ	-
2009-M02	2454917.31	2009 Mar 26 1920?	Lance	-	Aegis SM-2 target	0.000	USNAEG	MS	-	-	Target	www.navy.mil	-	-
2013-A33	2456473.50	2013 Jul	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A34	2456473.50	2013 Jul?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A35	2456473.50	2013 Jul?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A36	2456504.50	2013 Aug?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A37	2456504.50	2013 Aug?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A38	2456535.50	2013 Sep?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A39	2456535.50	2013 Sep?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A40	2456565.50	2013 Oct?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A41	2456565.50	2013 Oct?	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2013-A42	2456602.50	2013 Nov 6	Lance	-	MEADS Target	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2015-A54	2457091.50	2015 Mar 10	Lance	-	Risk Reduction	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2015-S42	2457232.85	2015 Jul 29 0830	Lance	-	Aegis MMW E1 Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2015-S43	2457233.76	2015 Jul 30 0615	Lance	-	Aegis MMW E2 Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2016-A109	2457736.50	2016 DEc 14	Lance	-	SM-6 Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1950-A44	2433579.50	1950 Oct 25	Lark	-	225	-	-	-	-	CC	LA	-	-	8?	-	-
1950-A45	2433580.50	1950 Oct 26	Lark	-	226	-	-	-	-	CC	LA	-	-	0?	-	-
1950-A56	2433606.50	1950 Nov 21	Lark	-	227	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A10	2433747.50	1951 Apr 11	Lark	-	231	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A14	2433753.50	1951 Apr 17	Lark	-	232	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A16	2433769.50	1951 May 3	Lark	-	234	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A20	2433777.50	1951 May 11	Lark	-	235	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A23	2433795.50	1951 May 29	Lark	-	242	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A25	2433804.50	1951 Jun 7	Lark	-	236	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A26	2433804.50	1951 Jun 7	Lark	-	238	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A39	2433830.50	1951 Jul 3	Lark	-	240	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A46	2433847.50	1951 Jul 20	Lark	-	239	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A62	2433902.50	1951 Sep 13	Lark	-	593	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A63	2433908.50	1951 Sep 19	Lark	-	595	-	-	-	-	CC	LA	-	-	8?	-	-
1951-A67	2433923.50	1951 Oct 4	Lark	-	597	-	-	-	-	CC	LA	-	-	0?	-	-
1951-A92	2433991.50	1951 Dec 11	Lark	-	598	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A13	2434039.50	1952 Jan 28	Lark	-	600	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A29	2434054.50	1952 Feb 12	Lark	-	604	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A37	2434070.50	1952 Feb 28	Lark	-	596	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A51	2434092.50	1952 Mar 21	Lark	-	594	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A65	2434112.50	1952 Apr 10	Lark	-	602	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A66	2434119.50	1952 Apr 17	Lark	-	601	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A79	2434148.50	1952 May 16	Lark	-	603	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A101	2434187.50	1952 Jun 24	Lark	-	230	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A108	2434200.50	1952 Jul 7	Lark	-	592	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A112	2434208.50	1952 Jul 15	Lark	-	606	-	-	-	-	CC	LA	-	-	0?	-	-
1952-A159	2434272.50	1952 Sep 17	Lark	-	608	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A249	2434344.50	1952 Nov 28	Lark	-	610	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A254	2434350.50	1952 Dec 4	Lark	-	599	-	-	-	-	CC	LA	-	-	8?	-	-
1952-A271	2434362.50	1952 Dec 16	Lark	-	605	-	-	-	-	CC	LA	-	-	0?	-	-
1953-A55	2434420.50	1953 Feb 12	Lark	-	607	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A74	2434432.50	1953 Feb 24	Lark	-	612	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A89	2434439.50	1953 Mar 3	Lark	-	611	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A119	2434452.50	1953 Mar 16	Lark	-	621	-	-	-	-	CC	LA	-	-	8	-	-
1953-A161	2434475.50	1953 Apr 8	Lark	-	622	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A184	2434489.50	1953 Apr 22	Lark	-	614	-	-	-	-	CC	LA	-	-	0?	-	-
1953-A191	2434495.50	1953 Apr 28	Lark	-	623	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A211	2434509.50	1953 May 12	Lark	-	624	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A218	2434511.50	1953 May 14	Lark	-	613	-	-	-	-	CC	LA	-	-	8?	-	-
1953-A283	2434566.50	1953 Jul 8	Lark	-	626	-	-	-	-	CC	LA	-	-	8?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1950-A44	2433579.50	1950 Oct 25	Lark	-	225	0.000	3GMS	MS	-	-	Test	MT60-2544	-	-
1950-A45	2433580.50	1950 Oct 26	Lark	-	226	0.000	3GMS	MF	U	-	Test	MT60-2544	-	-
1950-A56	2433606.50	1950 Nov 21	Lark	-	227	0.000	3GMS	MS	-	-	Test	MT60-2544	-	-
1951-A10	2433747.50	1951 Apr 11	Lark	-	231	0.000	3GMS	MF	U	-	Test	MT60-2544	-	-
1951-A14	2433753.50	1951 Apr 17	Lark	-	232	0.000	3GMS	MS	-	-	Test	MT60-2544	-	-
1951-A16	2433769.50	1951 May 3	Lark	-	234	0.000	4803GMS	MS	-	-	Test	MT60-2544	-	-
1951-A20	2433777.50	1951 May 11	Lark	-	235	0.000	4803GMS	MS	-	-	Test	MT60-2544	-	-
1951-A23	2433795.50	1951 May 29	Lark	-	242	0.000	4803GMS	MF	U	-	Test	MT60-2544	-	-
1951-A25	2433804.50	1951 Jun 7	Lark	-	236	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1951-A26	2433804.50	1951 Jun 7	Lark	-	238	0.000	6555GMS	MF	U	-	Test	MT60-2544	-	-
1951-A39	2433830.50	1951 Jul 3	Lark	-	240	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1951-A46	2433847.50	1951 Jul 20	Lark	-	239	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1951-A62	2433902.50	1951 Sep 13	Lark	-	593	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1951-A63	2433908.50	1951 Sep 19	Lark	-	595	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1951-A67	2433923.50	1951 Oct 4	Lark	-	597	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1951-A92	2433991.50	1951 Dec 11	Lark	-	598	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A13	2434039.50	1952 Jan 28	Lark	-	600	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A29	2434054.50	1952 Feb 12	Lark	-	604	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A37	2434070.50	1952 Feb 28	Lark	-	596	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A51	2434092.50	1952 Mar 21	Lark	-	594	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A65	2434112.50	1952 Apr 10	Lark	-	602	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A66	2434119.50	1952 Apr 17	Lark	-	601	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A79	2434148.50	1952 May 16	Lark	-	603	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A101	2434187.50	1952 Jun 24	Lark	-	230	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A108	2434200.50	1952 Jul 7	Lark	-	592	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A112	2434208.50	1952 Jul 15	Lark	-	606	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1952-A159	2434272.50	1952 Sep 17	Lark	-	608	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A249	2434344.50	1952 Nov 28	Lark	-	610	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A254	2434350.50	1952 Dec 4	Lark	-	599	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1952-A271	2434362.50	1952 Dec 16	Lark	-	605	0.000	6556GMS	MF	U	-	Test	MT60-2544	-	-
1953-A55	2434420.50	1953 Feb 12	Lark	-	607	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1953-A74	2434432.50	1953 Feb 24	Lark	-	612	0.000	6556GMS	MS	-	-	Test	MT60-2544	-	-
1953-A89	2434439.50	1953 Mar 3	Lark	-	611	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A119	2434452.50	1953 Mar 16	Lark	-	621	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A161	2434475.50	1953 Apr 8	Lark	-	622	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A184	2434489.50	1953 Apr 22	Lark	-	614	0.000	6555GMS	MF	U	-	Test	MT60-2544	-	-
1953-A191	2434495.50	1953 Apr 28	Lark	-	623	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A211	2434509.50	1953 May 12	Lark	-	624	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A218	2434511.50	1953 May 14	Lark	-	613	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1953-A283	2434566.50	1953 Jul 8	Lark	-	626	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2020-F04	2458995.33	2020 May 25 1950	LauncherOne	-	R02	Starshine 4?	-	-	B747-744	MHV	RW12/30	WTR	LP15	10?	-	-
2021-002	2459232.32	2021 Jan 17 1938:51	LauncherOne	-	R03	Elana XX	-	-	B747-744	MHV	RW12/30	WTR	LP15	535	-	-
2021-058	2459396.12	2021 Jun 30 1447	LauncherOne	-	R04	STP-27VPA	Tubular Bells I	-	B747-744	MHV	RW12/30	WTR	LP16	543	-	-
2022-003	2459593.45	2022 Jan 13 2252	LauncherOne	-	R05	STP-27VPB	Above The Clouds	-	B747-744	MHV	RW12/30	WTR	LP17 A	505	-	-
2022-074	2459762.79	2022 Jul 2 0653:00	LauncherOne	-	R06	STP-S28A	Straight Up	-	B747-744	MHV	RW12/30	WTR	LP17 B	499	-	-
2023-F01	2459954.46	2023 Jan 9 2308:59?	LauncherOne	-	R07	UK launch	Start Me Up	-	B747-744	NEWQ	RW12/30	CELS	LP1	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2020-F04	2458995.33	2020 May 25 1950	LauncherOne	-	R02	0.040	VORB	OF	S1P	CG/G	Sat SSO L	Wire	-	LOX feed broke
2021-002	2459232.32	2021 Jan 17 1938:51	LauncherOne	-	R03	0.030	VORB	OS	-	CG/G	Sat LEO L	Wire	-	-
2021-058	2459396.12	2021 Jun 30 1447	LauncherOne	-	R04	0.036	VORB	OS	-	CG/G	Sat LEO L	Wire	-	-
2022-003	2459593.45	2022 Jan 13 2252	LauncherOne	-	R05	0.044	VORB	OS	-	CG/G	Sat LEO L	Wire	-	-
2022-074	2459762.79	2022 Jul 2 0653:00	LauncherOne	-	R06	0.078	VORB	OS	-	CG/G	Sat LEO L	Wire	-	-
2023-F01	2459954.46	2023 Jan 9 2308:59?	LauncherOne	-	R07	0.073	VORB	OF	S2P	C/DG	Sat LEO L	Wire	-	Fuel feed blockage

						Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A187	2438510.50	1964 Apr 25	Lex	-	01	LEX-01	-	-	-	CERES	-	-	-	1?	-	-
1965-M45	2438911.50	1965 Jun	Lex	-	02/1	-	-	-	-	CERES	-	-	-	68	-	-
1965-M46	2438911.50	1965 Jun	Lex	-	02/2	-	-	-	-	CERES	-	-	-	60?	-	-
1965-M47	2438911.50	1965 Jun	Lex	-	02/3	-	-	-	-	CERES	-	-	-	60?	-	-
1967-S06	2439794.50	1967 Nov	Lex	-	02B/1	-	-	-	-	CERES	-	-	-	115	-	-
1967-S07	2439794.50	1967 Nov	Lex	-	02B/2	-	-	-	-	CERES	-	-	-	115?	-	-
1967-S08	2439794.50	1967 Nov	Lex	-	02B/3	SECT Meteo	-	-	-	CERES	-	-	-	80?	-	-
1967-S597	2439794.50	1967 Nov	Lex	-	02B/4	SECT Meteo	-	-	-	CERES	-	-	-	101?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A187	2438510.50	1964 Apr 25	Lex	-	01	0.000	ONERA	SF	U	ONERA/	Test	www.hybridraketen.de	ESRO-SP39	-
1965-M45	2438911.50	1965 Jun	Lex	-	02/1	0.000	ONERA	SS	-	ONERA/	Test	Moulin-Serra	-	-
1965-M46	2438911.50	1965 Jun	Lex	-	02/2	0.000	ONERA	SS	-	ONERA/	Test	Moulin-Serra	-	-
1965-M47	2438911.50	1965 Jun	Lex	-	02/3	0.000	ONERA	SS	-	ONERA/	Test	Moulin-Serra	-	-
1967-S06	2439794.50	1967 Nov	Lex	-	02B/1	0.000	ONERA	SS	-	ONERA/	Test	Moulin-Serra	-	-
1967-S07	2439794.50	1967 Nov	Lex	-	02B/2	0.000	ONERA	SS	-	ONERA/	Test	Moulin-Serra	-	-
1967-S08	2439794.50	1967 Nov	Lex	-	02B/3	0.000	ONERA	SS	-	SECT/	Meteo	Moulin-Serra	-	-
1967-S597	2439794.50	1967 Nov	Lex	-	02B/4	0.000	ONERA	SS	-	SECT/	Meteo	Moulin-Serra	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-S73	2435374.36	1955 Sep 23 2034	Loki Rockoon	-	-	SUI 38	-	-	LSD-1	USN55A	LP1	-	-	100	-	-
1955-S75	2435375.38	1955 Sep 24 2109	Loki Rockoon	-	-	SUI 40	-	-	LSD-1	USN55A	LP3	-	-	100	-	-
1955-A474	2435376.36	1955 Sep 25 2039	Loki Rockoon	-	-	SUI 41	-	-	LSD-1	USN55A	LP4	-	-	11	-	-
1955-S78	2435378.55	1955 Sep 28 0113	Loki Rockoon	-	-	SUI 43	-	-	LSD-1	USN55A	LP6	-	-	100	-	-
1955-S87	2435381.34	1955 Sep 30 2010	Loki Rockoon	-	-	SUI 49	-	-	LSD-1	USN55A	LP12	-	-	100	-	-
1955-S88	2435385.39	1955 Oct 4 2118	Loki Rockoon	-	-	SUI 50	-	-	LSD-1	USN55A	LP13	-	-	100	-	-
1956-W01	2435510.50	1956 Feb 7	Loki Dart	-	WASP 1	-	-	-	-	PM?	-	-	-	31?	-	-
1956-W02	2435563.50	1956 Apr	Loki Dart	-	WASP 1	-	-	-	DD-787	BIK?	-	-	-	31?	-	-
1956-W03	2435563.50	1956 Apr	Loki Dart	-	WASP 1	-	-	-	DD-790	BIK?	-	-	-	31?	-	-
1956-W04	2435593.50	1956 May	Loki Dart	-	WASP 1	-	-	-	DD-787	BIK?	-	-	-	31?	-	-
1956-W05	2435621.76	1956 May 28 0616	Loki Dart	-	WASP 1	-	ZUNI	Lifeguard Stn 1	DD-790	ENW	LP1	-	-	31?	-	-
1956-W06	2435602.50	1956 May 9	Loki Dart	-	1-12	-	-	-	-	WS	-	-	-	31?	-	-
1956-W07	2435603.50	1956 May 10	Loki Dart	-	13-20	-	-	-	-	WS	-	-	-	31?	-	-
1956-A58	2435624.50	1956 Jun	Loki Dart	-	WASP 1	-	-	-	DD-787	BIK?	-	-	-	30	-	-
1956-A59	2435635.50	1956 Jun 11	Loki Dart	-	WASP 1	-	FLATHEAD	Weather Stn Dog	DD-790	ENW	WSD	-	-	30	-	-
1956-A374	2435636.50	1956 Jun 12	Loki Dart	-	WASP 1	-	FLATHEAD	Weather Stn Dog	DD-790	ENW	WSD	-	-	30	-	-
1956-A375	2435643.50	1956 Jun 19	Loki Dart	-	WASP 1	-	INCA	Weather Stn Dog	DD-790	ENW	WSD	-	-	30	-	-
1956-A376	2435646.50	1956 Jun 22	Loki Dart	-	WASP 1	-	INCA	Weather Stn Dog	DD-790	ENW	WSD	-	-	30	-	-
1956-A67	2435654.50	1956 Jul	Loki Dart	-	WASP 1	-	-	-	DD-787	BIK?	-	-	-	30	-	-
1956-A68	2435669.50	1956 Jul 15	Loki Dart	-	WASP 1	-	TEWA	-	DD-790	ENW	WSD	-	-	30	-	-
1956-A377	2435675.50	1956 Jul 21	Loki Dart	-	WASP 1	-	TEWA	-	DD-790	ENW	WSD	-	-	30	-	-
1956-A359	2435818.50	1956 Dec 11	Loki Dart	-	WASP	1	-	-	-	WS	-	-	-	1?	-	-
1956-M09	2435818.50	1956 Dec 11	Loki Dart	-	WASP	2	-	-	-	WS	-	-	-	70?	-	-
1956-A360	2435818.50	1956 Dec 11	Loki Dart	-	WASP	3	-	-	-	WS	-	-	-	1?	-	-
1956-M10	2435818.50	1956 Dec 11	Loki Dart	-	WASP	4	-	-	-	WS	-	-	-	70?	-	-
1956-A361	2435819.50	1956 Dec 12	Loki Dart	-	WASP	11	-	-	-	WS	-	-	-	1?	-	-
1956-M11	2435820.50	1956 Dec 13	Loki Dart	-	WASP	12	-	-	-	WS	-	-	-	70?	-	-
1956-M12	2435820.50	1956 Dec 13	Loki Dart	-	WASP	6	-	-	-	WS	-	-	-	70?	-	-
1956-M13	2435820.50	1956 Dec 13	Loki Dart	-	WASP	22	-	-	-	WS	-	-	-	70?	-	-
1956-M14	2435821.50	1956 Dec 14	Loki Dart	-	WASP	17	-	-	-	WS	-	-	-	70?	-	-
1956-M15	2435821.50	1956 Dec 14	Loki Dart	-	WASP	18	-	-	-	WS	-	-	-	70?	-	-
1956-M16	2435821.50	1956 Dec 14	Loki Dart	-	WASP	19	-	-	-	WS	-	-	-	70?	-	-
1956-M17	2435821.50	1956 Dec 14	Loki Dart	-	WASP	23	-	-	-	WS	-	-	-	70?	-	-
1956-M18	2435821.50	1956 Dec 14	Loki Dart	-	WASP	21	-	-	-	WS	-	-	-	70?	-	-
1956-M19	2435821.50	1956 Dec 14	Loki Dart	-	WASP	20	-	-	-	WS	-	-	-	70?	-	-
1956-M20	2435821.50	1956 Dec 14	Loki Dart	-	WASP	24	-	-	-	WS	-	-	-	70?	-	-
1956-M21	2435825.50	1956 Dec 18	Loki Dart	-	WASP	14	-	-	-	WS	-	-	-	70?	-	-
1956-M22	2435825.50	1956 Dec 18	Loki Dart	-	WASP	15	-	-	-	WS	-	-	-	70?	-	-
1956-M23	2435825.50	1956 Dec 18	Loki Dart	-	WASP	16	-	-	-	WS	-	-	-	70?	-	-
1956-M24	2435825.50	1956 Dec 18	Loki Dart	-	WASP	8	-	-	-	WS	-	-	-	70?	-	-
1956-M25	2435825.50	1956 Dec 18	Loki Dart	-	WASP	9	-	-	-	WS	-	-	-	70?	-	-
1956-M26	2435825.50	1956 Dec 18	Loki Dart	-	WASP	10	-	-	-	WS	-	-	-	70?	-	-
1956-M27	2435825.50	1956 Dec 18	Loki Dart	-	WASP	24	-	-	-	WS	-	-	-	70?	-	-
1957-M02	2435882.35	1957 Feb 12 2030	Loki Rockoon	-	-	II5.097	IGY II5.97	-	-	GUAM	-	-	-	75?	-	-
1957-M03	2435884.34	1957 Feb 14 2005	Loki Rockoon	-	-	II5.098	IGY II5.98	-	-	GUAM	-	-	-	75?	-	-
1957-M04	2435887.40	1957 Feb 17 2136	Loki Rockoon	-	-	II5.099	IGY II5.99	-	-	GUAM	-	-	-	75?	-	-
1957-S72	2436056.06	1957 Aug 5 1322	Loki Rockoon	-	II5.01F	SUI 56	IGY II5.01F	-	LSD-29	USN57A	LP1	-	-	100?	-	-
1957-S73	2436056.21	1957 Aug 5 1659	Loki Rockoon	-	II5.02F	SUI 57	IGY II5.02F	-	LSD-29	USN57A	LP2	-	-	100?	-	-
1957-S75	2436057.05	1957 Aug 6 1313	Loki Rockoon	-	II5.03F	SUI 58	IGY II5.03F	-	LSD-29	USN57A	LP3	-	-	116	-	-
1957-S76	2436057.22	1957 Aug 6 1723	Loki Rockoon	-	II5.04F	SUI 59	IGY II5.04F	-	LSD-29	USN57A	LP4	-	-	117	-	-
1957-A74	2436057.64	1957 Aug 7 0328	Loki Rockoon	-	II5.05F	SUI 60	IGY II5.05F	-	LSD-29	USN57A	LP5	-	-	10?	-	-
1957-A75	2436058.42	1957 Aug 7 2204	Loki Rockoon	-	II5.06F	SUI 61	IGY II5.06F	-	LSD-29	USN57A	LP6	-	-	10?	-	-
1957-S79	2436058.80	1957 Aug 8 0717	Loki Rockoon	-	II5.07F	SUI 62	IGY II5.07F	-	LSD-29	USN57A	LP7	-	-	132	-	-
1957-S81	2436060.77	1957 Aug 10 0629	Loki Rockoon	-	II5.08F	SUI 63	IGY II5.08F	-	LSD-29	USN57A	LP8	-	-	117	-	-
1957-M09	2436061.48	1957 Aug 10 2336	Loki Rockoon	-	II5.09F	SUI 64	IGY II5.09F	-	LSD-29	USN57A	LP9	-	-	77	-	-
1957-A76	2436061.72	1957 Aug 11 0516	Loki Rockoon	-	II5.10F	SUI 65	IGY II5.10F	-	LSD-29	USN57A	LP10	-	-	10?	-	-
1957-S82	2436062.35	1957 Aug 11 2030	Loki Rockoon	-	II5.11F	SUI 66	IGY II5.11F	-	LSD-29	USN57A	LP11	-	-	100?	-	-
1957-A78	2436062.83	1957 Aug 12 0748	Loki Rockoon	-	II5.12F	SUI 67	IGY II5.12F	-	LSD-29	USN57A	LP12	-	-	10?	-	-
1957-S83	2436063.14	1957 Aug 12 1515	Loki Rockoon	-	II5.13F	SUI 68	IGY II5.13F	-	LSD-29	USN57A	LP13	-	-	100?	-	-
1957-S85	2436063.58	1957 Aug 13 0158	Loki Rockoon	-	II5.14F	SUI 69	IGY II5.14F	-	LSD-29	USN57A	LP14	-	-	100?	-	-
1957-S86	2436064.89	1957 Aug 14 0924	Loki Rockoon	-	II5.15F	SUI 70	IGY II5.15F	-	LSD-29	USN57A	LP15	-	-	100?	-	-
1957-S87	2436065.13	1957 Aug 14 1507	Loki Rockoon	-	II5.16F	SUI 71	IGY II5.16F	-	LSD-29	USN57A	LP16	-	-	97	-	-
1957-S88	2436065.39	1957 Aug 14 2119	Loki Rockoon	-	II5.17F	SUI 72	IGY II5.17F	-	LSD-29	USN57A	LP17	-	-	130	-	-
1957-S89	2436065.51	1957 Aug 15 0011	Loki Rockoon	-	II5.18F	SUI 73	IGY II5.18F	-	LSD-29	USN57A	LP18	-	-	97	-	-
1957-S113	2436108.26	1957 Sep 26 1821	Loki Rockoon	-	II5.50F	SUI 74	IGY II5.50F	-	AGB-4	USN57B	LP1	-	-	100?	-	-
1957-S114	2436109.10	1957 Sep 27 1427	Loki Rockoon	-	II5.51F	SUI 75	IGY II5.51F	-	AGB-4	USN57B	LP2	-	-	119	-	-
1957-S118	2436116.36	1957 Oct 4 2036	Loki Rockoon	-	II5.52F	SUI 76	IGY II5.52F	-	AGB-4	USN57B	LP3	-	-	113	-	-
1957-S121	2436125.26	1957 Oct 13 1815	Loki Rockoon	-	II5.53F	SUI 77	IGY II5.53F	-	AGB-4	USN57B	LP4	-	-	100?	-	-
1957-S123	2436126.44	1957 Oct 14 2231	Loki Rockoon	-	II5.54F	SUI 78	IGY II5.54F	-	AGB-4	USN57B	LP5	-	-	113	-	-
1957-S124	2436128.39	1957 Oct 16 2117	Loki Rockoon	-	II5.55F	SUI 79	IGY II5.55F	-	AGB-4	USN57B	LP6	-	-	100?	-	-
1957-S125	2436128.51	1957 Oct 17 0009	Loki Rockoon	-	II5.56F	SUI 80	IGY II5.56F	-	AGB-4	USN57B	LP7	-	-	0?	-	-
1957-S126	2436128.60	1957 Oct 17 0218	Loki Rockoon	-	II5.57F	SUI 81	IGY II5.57F	-	AGB-4	USN57B	LP8	-	-	10?	-	-
1957-A121	2436129.39	1957 Oct 17 2116	Loki Rockoon	-	II5.58F	SUI 82	IGY II5.58F	-	AGB-4	USN57B	LP9	-	-	44	-	-
1957-S128	2436129.54	1957 Oct 18 0059	Loki Rockoon	-	II5.59F	SUI 83	IGY II5.59F	-	AGB-4	USN57B	LP10	-	-	127	-	-
1957-S129	2436129.90	1957 Oct 18 0935	Loki Rockoon	-	II5.60F	SUI 84	IGY II5.60F	-	AGB-4	USN57B	LP11	-	-	10?	-	-
1957-S130	2436130.37	1957 Oct 18 2058	Loki Rockoon	-	II5.61F	SUI 85	IGY II5.61F	-	AGB-4	USN57B	LP12	-	-	121	-	-
1957-S131	2436130.54	1957 Oct 19 0059	Loki Rockoon	-	II5.62F	SUI 86	IGY II5.62F	-	AGB-4	USN57B	LP13	-	-	121	-	-
1957-S132	2436131.34	1957 Oct 19 2007	Loki Rockoon	-	SUI 87	II5.63F	IGY II5.63F	-	AGB-4	USN57B	LP14	-	-	122	-	-
1957-S134	2436131.60	1957 Oct 20 0219	Loki Rockoon	-	SUI 88	II5.64F	IGY II5.64F	-	AGB-4	USN57B	LP15	-	-	104	-	-
1957-S135	2436131.66	1957 Oct 20 0357?	Loki Rockoon	-	SUI 89	II5.65F	IGY II5.65F	-	AGB-4	USN57B	LP16	-	-	100?	-	-
1957-S136	2436132.34	1957 Oct 20 2011	Loki Rockoon	-	SUI 90	II5.66F	IGY II5.66F	-	AGB-4	USN57B	LP17	-	-	100?	-	-
1957-S138	2436134.44	1957 Oct 22 2231	Loki Rockoon	-	SUI 91	II5.67F	IGY II5.67F	-	AGB-4	USN57B	LP18	-	-	100?	-	-
1957-S146	2436138.32	1957 Oct 26 1947	Loki Rockoon	-	SUI 92	II5.68F	IGY II5.68F	-	AGB-4	USN57B	LP19	-	-	100?	-	-
1957-S147	2436138.62	1957 Oct 27 0246	Loki Rockoon	-	SUI 93	II5.69F	IGY II5.69F	-	AGB-4	USN57B	LP20	-	-	10?	-	-
1957-S148	2436140.51	1957 Oct 29 0013	Loki Rockoon	-	SUI 94	II5.70F	IGY II5.70F	-	AGB-4	USN57B	LP21	-	-	8	-	-
1957-S149	2436142.45	1957 Oct 30 2250	Loki Rockoon	-	SUI 95	II5.71F	IGY II5.71F	-	AGB-4	USN57B	LP22	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S150	2436142.57	1957 Oct 31 0144	Loki Rockoon	-	SUI 96	II5.72F	IGY II5.72F	-	AGB-4	USN57B	LP23	-	-	100?	-	-
1957-S151	2436143.33	1957 Oct 31 1951	Loki Rockoon	-	SUI 97	II5.73F	IGY II5.73F	-	AGB-4	USN57B	LP24	-	-	100?	-	-
1957-S152	2436143.54	1957 Nov 1 0100	Loki Rockoon	-	SUI 98	II5.74F	IGY II5.74F	-	AGB-4	USN57B	LP25	-	-	10?	-	-
1957-S153	2436146.34	1957 Nov 3 2008	Loki Rockoon	-	SUI 99	II5.75F	IGY II5.75F	-	AGB-4	USN57B	LP26	-	-	10?	-	-
1957-S154	2436146.53	1957 Nov 4 0039	Loki Rockoon	-	SUI 100	II5.76F	IGY II5.76F	-	AGB-4	USN57B	LP27	-	-	100?	-	-
1957-S155	2436146.62	1957 Nov 4 0250	Loki Rockoon	-	SUI 101	II5.77F	IGY II5.77F	-	AGB-4	USN57B	LP28	-	-	113	-	-
1957-S156	2436146.66	1957 Nov 4 0347	Loki Rockoon	-	SUI 102	II5.78F	IGY II5.78F	-	AGB-4	USN57B	LP29	-	-	10?	-	-
1957-S157	2436146.80	1957 Nov 4 0716	Loki Rockoon	-	SUI 103	II5.79F	IGY II5.79F	-	AGB-4	USN57B	LP30	-	-	10?	-	-
1957-S158	2436147.29	1957 Nov 4 1852	Loki Rockoon	-	SUI 104	II5.80F	IGY II5.80F	-	AGB-4	USN57B	LP31	-	-	10?	-	-
1957-S159	2436147.56	1957 Nov 5 0125	Loki Rockoon	-	SUI 105	II5.81F	IGY II5.81F	-	AGB-4	USN57B	LP32	-	-	100?	-	-
1957-S160	2436148.35	1957 Nov 5 2023	Loki Rockoon	-	SUI 106	II5.82F	IGY II5.82F	-	AGB-4	USN57B	LP33	-	-	97	-	-
1957-S161	2436148.47	1957 Nov 5 2317	Loki Rockoon	-	SUI 107	II5.83F	IGY II5.83F	-	AGB-4	USN57B	LP34	-	-	100	-	-
1957-S165	2436151.42	1957 Nov 8 2200	Loki Rockoon	-	SUI 108	II5.84F	IGY II5.84F	-	AGB-4	USN57B	LP35	-	-	110	-	-
1957-S166	2436151.50	1957 Nov 9 0000	Loki Rockoon	-	SUI 109	II5.85F	IGY II5.85F	-	AGB-4	USN57B	LP36	-	-	110	-	-
1958-W14	2436427.50	1958 Aug 12	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W02	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W03	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W04	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W05	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W06	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W07	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W08	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W09	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W10	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W11	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W12	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W13	2436415.50	1958 Aug	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-A90	2436429.50	1958 Aug 14	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A91	2436429.50	1958 Aug 14	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A92	2436429.50	1958 Aug 14	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A94	2436430.50	1958 Aug 15	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A95	2436430.50	1958 Aug 15	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A96	2436430.50	1958 Aug 15	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-W15	2436437.50	1958 Aug 22	Loki Dart	-	-	Argus training	-	-	DD-843	USN58A	ULP1	-	-	70?	-	-
1958-W16	2436450.21	1958 Sep 3 1703	Loki Dart	-	II9.01F	Stability test	IGY II9.01F	-	-	FC	-	-	-	75?	-	-
1958-W17	2436450.31	1958 Sep 3 1930	Loki Dart	-	II9.02F	Radiation	IGY II9.02F	-	-	FC	-	-	-	75?	-	-
1958-W18	2436451.31	1958 Sep 4 1930	Loki Dart	-	II9.03F	-	IGY II9.03F	-	-	FC	-	-	-	75?	-	-
1958-A109	2436454.48	1958 Sep 7 2330	Loki Dart	-	II9.04F	-	IGY II9.04F	-	-	FC	-	-	-	19	-	-
1958-W19	2436454.59	1958 Sep 8 0204	Loki Dart	-	II9.05F	-	IGY II9.05F	-	-	FC	-	-	-	75?	-	-
1958-W20	2436454.62	1958 Sep 8 0256	Loki Dart	-	II9.06F	-	IGY II9.06F	-	-	FC	-	-	-	75?	-	-
1958-A121	2436468.50	1958 Sep 22	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A122	2436468.50	1958 Sep 22	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A123	2436468.50	1958 Sep 22	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A127	2436471.50	1958 Sep 25	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-A128	2436471.50	1958 Sep 25	Loki Dart	-	-	Oriole	-	-	-	WI	-	-	-	30?	-	-
1958-W21	2436519.39	1958 Nov 11 2118	Loki Dart	-	II9.07F	Radiation	IGY II9.07F	-	-	FC	-	-	-	75?	-	-
1958-W22	2436521.39	1958 Nov 13 2115	Loki Dart	-	II9.08F	-	IGY II9.08F	-	-	FC	-	-	-	75?	-	-
1958-W23	2436521.41	1958 Nov 13 2145	Loki Dart	-	II9.09F	-	IGY II9.09F	-	-	FC	-	-	-	75?	-	-
1958-W24	2436525.25	1958 Nov 17 1800	Loki Dart	-	II9.10F	-	IGY II9.10F	-	-	FC	-	-	-	75?	-	-
1958-W25	2436527.27	1958 Nov 19 1830	Loki Dart	-	II9.11F	-	IGY II9.11F	-	-	FC	-	-	-	75?	-	-
1958-W26	2436527.59	1958 Nov 20 0214	Loki Dart	-	II9.12F	-	IGY II9.12F	-	-	FC	-	-	-	75?	-	-
1958-A148	2436527.64	1958 Nov 20 0327	Loki Dart	-	II9.13F	-	IGY II9.13F	-	-	FC	-	-	-	3	-	-
1958-A149	2436527.68	1958 Nov 20 0425	Loki Dart	-	II9.14F	-	IGY II9.14F	-	-	FC	-	-	-	10?	-	-
1959-W03	2436611.46	1959 Feb 11 2300	Loki Dart	?	-	-	-	-	-	WS	-	-	-	50	-	-
1959-A58	2436660.79	1959 Apr 2 0700	Loki Dart	?	-	-	-	-	-	WS	-	-	-	40	-	-
1959-A170	2436850.33	1959 Oct 8 2000	Loki Dart	?	-	-	-	-	-	WS	-	-	-	44	-	-
1959-W05	2436854.50	1959 Oct 13	Loki	-	Loki II	-	-	-	-	PM	-	-	-	70	-	-
1959-W06	2436855.50	1959 Oct 14	Loki	-	Loki II	-	-	-	-	PM	-	-	-	69	-	-
1959-W07	2436861.50	1959 Oct 20	Loki	-	Loki II	-	-	-	-	PM	-	-	-	70?	-	-
1959-A211	2436861.50	1959 Oct 20	Loki	-	Loki I	-	-	-	-	PM	-	-	-	35	-	-
1959-W08	2436862.50	1959 Oct 21	Loki	-	Loki II	-	-	-	-	PM	-	-	-	64	-	-
1959-A212	2436862.50	1959 Oct 21	Loki	-	Loki I	-	-	-	-	PM	-	-	-	31	-	-
1959-W09	2436867.50	1959 Oct 26	Loki	-	Loki II	-	-	-	-	PM	-	-	-	70?	-	-
1959-W10	2436868.50	1959 Oct 27	Loki	-	Loki II	-	-	-	-	PM	-	-	-	70?	-	-
1959-W11	2436884.50	1959 Nov 12	Loki	-	Loki II	-	-	-	-	PM	-	-	-	67	-	-
1959-W12	2436890.50	1959 Nov 18	Loki	-	Loki II	-	-	-	-	PM	-	-	-	66	-	-
1960-A310	2436948.50	1960 Jan 15	Loki	-	Loki I	-	-	-	-	PM	-	-	-	37	-	-
1960-A311	2436954.50	1960 Jan 21	Loki	-	Loki I	-	-	-	-	PM	-	-	-	33	-	-
1960-W68	2436958.50	1960 Jan 25	Loki	-	Loki II	-	-	-	-	PM	-	-	-	70?	-	-
1960-A312	2436959.50	1960 Jan 26	Loki	-	Loki I	-	-	-	-	PM	-	-	-	39	-	-
1960-A313	2436961.50	1960 Jan 28	Loki	-	Loki I	-	-	-	-	PM	-	-	-	34	-	-
1960-A314	2436966.50	1960 Feb 2	Loki	-	Loki I	-	-	-	-	PM	-	-	-	35	-	-
1960-A315	2436975.50	1960 Feb 11	Loki	-	Loki I	-	-	-	-	PM	-	-	-	35	-	-
1960-W46	2437129.28	1960 Jul 13 1839	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W47	2437129.30	1960 Jul 13 1915	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W48	2437155.21	1960 Aug 8 1701	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W49	2437155.22	1960 Aug 8 1720	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W50	2437158.12	1960 Aug 11 1500	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W51	2437158.17	1960 Aug 11 1600	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W52	2437159.06	1960 Aug 12 1330	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W53	2437159.10	1960 Aug 12 1430	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W54	2437159.15	1960 Aug 12 1530	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W55	2437159.20	1960 Aug 12 1645	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W56	2437162.25	1960 Aug 15 1800	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W57	2437162.26	1960 Aug 15 1820	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W58	2437166.21	1960 Aug 19 1700	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-W59	2437166.22	1960 Aug 19 1720	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W60	2437169.18	1960 Aug 22 1626	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W61	2437169.20	1960 Aug 22 1650	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W62	2437171.26	1960 Aug 24 1812	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W63	2437171.29	1960 Aug 24 1856	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W64	2437172.13	1960 Aug 25 1503	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W65	2437172.14	1960 Aug 25 1520	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W66	2437172.15	1960 Aug 25 1540	Loki	-	-	-	-	-	-	CC	LC43	-	-	60?	-	-
1960-W25	2437219.51	1960 Oct 12 0015	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	75?	-	-
1960-W26	2437220.53	1960 Oct 13 0045	Loki Dart	?	-	-	-	-	-	WS	-	-	-	62	-	-
1960-W27	2437233.49	1960 Oct 25 2342	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	65	-	-
1960-W28	2437235.46	1960 Oct 27 2305	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	69	-	-
1960-W39	2437239.46	1960 Oct 31 2300:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	69	-	-
1960-W41	2437256.42	1960 Nov 17 2212	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	60?	-	-
1960-W42	2437259.95	1960 Nov 21 1050	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	65	-	-
1961-A05	2437299.50	1961 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-A06	2437299.50	1961 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	0?	-	-
1961-W03	2437317.22	1961 Jan 17 1715	Loki Dart	?	-	-	-	-	-	WS	-	-	-	57	-	-
1961-A23	2437317.25	1961 Jan 17 1804	Loki Dart	?	-	-	-	-	-	PM	-	-	-	37	-	-
1961-A26	2437317.60	1961 Jan 18 0231	Loki Dart	?	-	-	-	-	-	CC	LC43	-	-	43	-	-
1961-A28	2437325.58	1961 Jan 26 0157	Loki Dart	?	-	-	-	-	-	CC	LC43	-	-	35	-	-
1961-A29	2437326.47	1961 Jan 26 2320	Loki Dart	?	-	-	-	-	-	PM	-	-	-	34	-	-
1961-W05	2437332.01	1961 Feb 1 1219	Loki Dart	?	-	-	-	-	-	WS	-	-	-	62	-	-
1961-W06	2437347.28	1961 Feb 16 1838	Loki Dart	?	-	-	-	-	-	WS	-	-	-	51	-	-
1961-W07	2437376.11	1961 Mar 17 1445	Loki Dart	?	-	-	-	-	-	WS	-	-	-	69	-	-
1961-W08	2437390.11	1961 Mar 31 1443	Loki Dart	?	-	-	-	-	-	WS	-	-	-	60	-	-
1961-W09	2437400.42	1961 Apr 10 2210	Loki Dart	?	-	-	-	-	-	WS	-	-	-	68	-	-
1961-W10	2437409.49	1961 Apr 19 2345	Loki Dart	?	-	-	-	-	-	WS	-	-	-	72	-	-
1961-W11	2437410.10	1961 Apr 20 1430	Loki Dart	?	-	-	-	-	-	WS	-	-	-	66	-	-
1961-W12	2437424.41	1961 May 4 2147	Loki Dart	?	-	Instrument test?	-	-	-	WS	-	-	-	55	-	-
1961-W13	2437424.48	1961 May 4 2325	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	60?	-	-
1961-W40	2437467.35	1961 Jun 16 2018:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	66	-	-
1961-W41	2437467.41	1961 Jun 16 2153:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	68	-	-
1962-A16	2437701.37	1962 Feb 5 2059	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	44	-	-
1962-W37	2437950.38	1962 Oct 12 2101:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	67	-	-
1962-W38	2437950.40	1962 Oct 12 2132:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	61	-	-
1962-W39	2437950.44	1962 Oct 12 2238:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	65	-	-
1962-W40	2437950.46	1962 Oct 12 2309:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	61	-	-
1962-W41	2437950.51	1962 Oct 13 0013:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	60	-	-
1962-W42	2437950.56	1962 Oct 13 0131:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	68	-	-
1962-W43	2437950.57	1962 Oct 13 0136:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	65	-	-
1962-W44	2437950.59	1962 Oct 13 0214:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	65	-	-
1962-W45	2437950.61	1962 Oct 13 0244:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	63	-	-
1962-W46	2437950.65	1962 Oct 13 0335:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	64	-	-
1962-W47	2437950.66	1962 Oct 13 0352:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	62	-	-
1964-M150	2438425.50	1964 Jan 31	Loki Dart	-	HASP II	White Oak HI-LO	-	-	-	PM?	-	-	-	58	-	-
1964-M152	2438663.50	1964 Sep 25	Judi-Dart	-	HASP/JUDI	-	-	-	-	PM?	-	-	-	76	-	-
1964-W06	2438431.29	1964 Feb 5 1900	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1964-W07	2438431.44	1964 Feb 5 2230	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1964-Y11	2438473.11	1964 Mar 18 1436	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	80?	-	-
1964-W41	2438590.79	1964 Jul 14 0654	Judi-Dart	-	-	ISRO 11.01	TERLS-008	-	-	TERLS	-	-	-	76	-	-
1964-W42	2438591.91	1964 Jul 15 0955	Judi-Dart	-	-	ISRO 11.02	TERLS-009	-	-	TERLS	-	-	-	76	-	-
1964-W44	2438592.88	1964 Jul 16 0910	Judi-Dart	-	-	ISRO 11.03	TERLS-010	-	-	TERLS	-	-	-	76	-	-
1964-W60	2438626.75	1964 Aug 19 0601	Judi-Dart	-	-	ISRO 11.04	TERLS-011	-	-	TERLS	-	-	-	78	-	-
1964-W55	2438618.27	1964 Aug 10 1830:00	Loki Dart	?	-	-	-	-	-	THU	TUTO	-	-	75?	-	-
1964-W56	2438620.29	1964 Aug 12 1852:00	Loki Dart	?	-	-	-	-	-	THU	TUTO	-	-	75?	-	-
1964-W57	2438625.27	1964 Aug 17 1834:00	Loki Dart	?	-	-	-	-	-	THU	TUTO	-	-	75?	-	-
1964-W61	2438627.30	1964 Aug 19 1907:00	Loki Dart	?	-	-	-	-	-	THU	TUTO	-	-	75?	-	-
1964-W63	2438627.50	1964 Aug 20	Judi-Dart	-	-	-	-	-	-	WS	-	-	-	75	-	-
1964-W64	2438627.50	1964 Aug 20	Judi-Dart	-	-	-	-	-	-	WS	-	-	-	75	-	-
1964-W75	2438655.50	1964 Sep 17	Judi-Dart	-	-	-	-	-	-	WS	-	-	-	75	-	-
1964-W129	2438690.08	1964 Oct 21 1358	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	65?	-	-
1964-W105	2438709.50	1964 Nov 10	Judi-Dart	-	-	-	-	-	-	WS	-	-	-	75	-	-
1964-W130	2438718.09	1964 Nov 18 1408	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	65?	-	-
1964-W131	2438730.59	1964 Dec 1 0215	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	65?	-	-
1964-W117	2438731.50	1964 Dec 2	Judi-Dart	-	-	-	-	-	-	WS	-	-	-	75	-	-
1964-W119	2438734.79	1964 Dec 5 0655	Judi-Dart	-	TERLS-15	ISRO 11.05	TERLS-015	-	-	TERLS	-	-	-	77	-	-
1964-W123	2438744.77	1964 Dec 15 0630	Judi-Dart	-	TERLS-16	ISRO 11.06	TERLS-016	-	-	TERLS	-	-	-	77	-	-
1964-W124	2438745.82	1964 Dec 16 0738	Judi-Dart	-	TERLS-17	ISRO 11.07	TERLS-017	-	-	TERLS	-	-	-	77	-	-
1964-W132	2438746.04	1964 Dec 16 1303	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	65?	-	-
1965-W07	2438772.96	1965 Jan 12 1059	Judi-Dart	-	TERLS-18	ISRO 11.08	TERLS-018	-	-	TERLS	-	-	-	77	-	-
1965-W08	2438773.93	1965 Jan 13 1015	Judi-Dart	-	TERLS-19	ISRO 11.09	TERLS-019	-	-	TERLS	-	-	-	77	-	-
1965-W207	2438774.09	1965 Jan 13 1410	Judi-Dart	-	-	SUPARCO	-	-	-	SOM	-	-	-	65?	-	-
1965-W17	2438794.82	1965 Feb 3 0739	Judi-Dart	-	TERLS-20	ISRO 11.10	TERLS-020	-	-	TERLS	-	-	-	77	-	-
1965-W208	2438809.06	1965 Feb 17 1325	Judi-Dart	-	-	SUPARCO 15/65?	-	-	-	SOM	-	-	-	65?	-	-
1965-W243	2438830.50	1965 Mar 11	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP45	-	-	60?	-	-
1965-W244	2438836.50	1965 Mar 17	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP47	-	-	60?	-	-
1965-W43	2438836.79	1965 Mar 17 0655	Judi-Dart	-	TERLS-21	ISRO 11.11	TERLS-021	-	-	TERLS	-	-	-	77	-	-
1965-W209	2438837.23	1965 Mar 17 1732	Judi-Dart	-	-	SUPARCO 16/65	-	-	-	SOM	-	-	-	65?	-	-
1965-W245	2438838.50	1965 Mar 19	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP49	-	-	60?	-	-
1965-W246	2438841.50	1965 Mar 22	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP51	-	-	60?	-	-
1965-W247	2438844.50	1965 Mar 25	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP53	-	-	60?	-	-
1965-W248	2438847.50	1965 Mar 28	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP55	-	-	60?	-	-
1965-W249	2438858.50	1965 Apr 8	Loki Dart	-	HASP	-	-	-	CVE-25	NASA65	LP62	-	-	60?	-	-
1965-W69	2438899.79	1965 May 19 0704	Judi-Dart	-	TERLS-24?	ISRO 11.12	TERLS-024	-	-	TERLS	-	-	-	77	-	-
1965-W81	2438927.79	1965 Jun 16 0704	Judi-Dart	-	TERLS-25	ISRO 11.13	TERLS-025	-	-	TERLS	-	-	-	77	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-W100	2438962.62	1965 Jul 21 0250	Judi-Dart	-	TERLS-26	ISRO 11.14	TERLS-026	-	-	TERLS	-	-	-	77	-	-
1965-W118	2438990.80	1965 Aug 18 0710	Judi-Dart	-	TERLS-27	ISRO 11.15	TERLS-027	-	-	TERLS	-	-	-	77	-	-
1965-W229	2439012.41	1965 Sep 8 2145	Judi-Dart	-	EXAMETNET J65-01	HASP/WOX-1A	-	-	-	WI	-	-	-	54	-	-
1965-W230	2439012.46	1965 Sep 8 2307	Judi-Dart	-	EXAMETNET J65-02	HASP/WOX-1A	-	-	-	WI	-	-	-	56	-	-
1965-W231	2439012.53	1965 Sep 9 0047	Judi-Dart	-	EXAMETNET J65-03	HASP/WOX-1A	-	-	-	WI	-	-	-	53	-	-
1965-W232	2439012.57	1965 Sep 9 0141	Judi-Dart	-	EXAMETNET J65-04	HASP/WOX-1A	-	-	-	WI	-	-	-	49	-	-
1965-W233	2439012.60	1965 Sep 9 0225	Judi-Dart	-	EXAMETNET J65-05	HASP/WOX-1A	-	-	-	WI	-	-	-	53	-	-
1965-W234	2439012.71	1965 Sep 9 0501	Judi-Dart	-	EXAMETNET J65-06	HASP/WOX-1A	-	-	-	WI	-	-	-	53	-	-
1965-W235	2439012.84	1965 Sep 9 0805	Judi-Dart	-	EXAMETNET J65-07	HASP/WOX-1A	-	-	-	WI	-	-	-	55	-	-
1965-W282	2439013.00	1965 Sep 9 1201	Judi-Dart	-	EXAMETNET J65-08	HASP/WOX-1A	-	-	-	WI	-	-	-	54	-	-
1965-W266	2439013.19	1965 Sep 9 1630	Judi-Dart	-	EXAMETNET J65-09	WOX-1A	-	-	-	WI	-	-	-	52	-	-
1965-W237	2439013.20	1965 Sep 9 1648	Judi-Dart	-	EXAMETNET J65-10	HASP/WOX-1A	-	-	-	WI	-	-	-	54	-	-
1965-W238	2439013.44	1965 Sep 9 2234	Judi-Dart	-	EXAMETNET J65-11	HASP/WOX-1A	-	-	-	WI	-	-	-	56	-	-
1965-W239	2439013.55	1965 Sep 10 0115	Judi-Dart	-	EXAMETNET J65-12	HASP/WOX-1A	-	-	-	WI	-	-	-	52	-	-
1965-W240	2439013.71	1965 Sep 10 0500	Judi-Dart	-	EXAMETNET J65-13	HASP/WOX-1A	-	-	-	WI	-	-	-	52	-	-
1965-W241	2439013.83	1965 Sep 10 0800	Judi-Dart	-	EXAMETNET J65-14	HASP/WOX-1A	-	-	-	WI	-	-	-	54	-	-
1965-W242	2439014.03	1965 Sep 10 1238	Judi-Dart	-	EXAMETNET J65-15	HASP/WOX-1A	-	-	-	WI	-	-	-	53	-	-
1965-W133	2439018.90	1965 Sep 15 0931	Judi-Dart	-	TERLS-28	ISRO 11.16	TERLS-028	-	-	TERLS	-	-	-	77	-	-
1965-W269	2439039.29	1965 Oct 5 1851	Judi-Dart	-	EXAMETNET J65-16	Chaff	-	-	-	WI	-	-	-	63	-	-
1965-W270	2439042.32	1965 Oct 8 1934	Judi-Dart	-	EXAMETNET J65-17	Chaff	-	-	-	WI	-	-	-	60	-	-
1965-W271	2439046.28	1965 Oct 12 1849	Judi-Dart	-	EXAMETNET J65-18	Chaff	-	-	-	WI	-	-	-	65	-	-
1965-W272	2439048.31	1965 Oct 14 1929	Judi-Dart	-	EXAMETNET J65-19	Chaff	-	-	-	WI	-	-	-	60?	-	-
1965-W273	2439049.34	1965 Oct 15 2016	Judi-Dart	-	EXAMETNET J65-20	Chaff	-	-	-	WI	-	-	-	63	-	-
1965-W274	2439053.27	1965 Oct 19 1827	Judi-Dart	-	EXAMETNET J65-21	Chaff	-	-	-	WI	-	-	-	59	-	-
1965-W149	2439053.80	1965 Oct 20 0705	Judi-Dart	-	TERLS-29	ISRO 11.17	TERLS-029	-	-	TERLS	-	-	-	77	-	-
1965-W280	2439054.04	1965 Oct 20 1258	Judi-Dart	-	-	SUPARCO 17/65	-	-	-	SOM	-	-	-	65?	-	-
1965-W275	2439054.27	1965 Oct 20 1832	Judi-Dart	-	EXAMETNET J65-22	Chaff	-	-	-	WI	-	-	-	65	-	-
1965-W276	2439061.48	1965 Oct 27 2331	Judi-Dart	-	EXAMETNET J65-23	WOX-1A	-	-	-	WI	-	-	-	56	-	-
1965-W277	2439063.28	1965 Oct 29 1845	Judi-Dart	-	EXAMETNET J65-24	WOX-1A	-	-	-	WI	-	-	-	66	-	-
1965-W278	2439068.31	1965 Nov 3 1927	Judi-Dart	-	EXAMETNET J65-25	WOX-1A	-	-	-	WI	-	-	-	52	-	-
1965-W163	2439081.86	1965 Nov 17 0836	Judi-Dart	-	TERLS-30	ISRO 11.18	TERLS-030	-	-	TERLS	-	-	-	77	-	-
1965-W281	2439082.01	1965 Nov 17 1210	Judi-Dart	-	-	SUPARCO 18/65	-	-	-	SOM	-	-	-	65?	-	-
1965-W165	2439082.52	1965 Nov 18 0034:00	Loki Dart	?	-	DOVER	-	-	-	EGL	-	-	-	75?	-	-
1965-W166	2439082.68	1965 Nov 18 0415:00	Loki Dart	?	-	FOUL BAY	-	-	-	EGL	-	-	-	75?	-	-
1965-W167	2439082.74	1965 Nov 18 0545:00	Loki Dart	?	-	GUN HILL	-	-	-	EGL	-	-	-	75?	-	-
1965-W168	2439082.85	1965 Nov 18 0830:00	Loki Dart	?	-	INDIAN GRND	-	-	-	EGL	-	-	-	75?	-	-
1965-W169	2439082.92	1965 Nov 18 1008:00	Loki Dart	?	-	JAMESTOWN	-	-	-	EGL	-	-	-	75?	-	-
1965-W170	2439082.98	1965 Nov 18 1134:00	Loki Dart	?	-	INEZ	-	-	-	EGL	-	-	-	75?	-	-
1965-W171	2439087.60	1965 Nov 23 0227	Judi-Dart	-	TERLS-31	ISRO 19.01	TERLS-031	-	-	TERLS	-	-	-	69	-	-
1965-W200	2439109.65	1965 Dec 15 0333	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1965-W201	2439109.82	1965 Dec 15 0735	Judi-Dart	-	TERLS-32	ISRO 11.20	TERLS-032	-	-	TERLS	-	-	-	77	-	-
1965-W202	2439111.77	1965 Dec 17 0636	Judi-Dart	-	TERLS-33	ISRO 11.21	TERLS-033	-	-	TERLS	-	-	-	75?	-	-
1965-W204	2439112.78	1965 Dec 18 0647	Judi-Dart	-	TERLS-34	ISRO 11.22	TERLS-034	-	-	TERLS	-	-	-	75?	-	-
1966-W15	2439138.02	1966 Jan 12 1230	Judi-Dart	-	-	SUPARCO 19/66	-	-	-	SOM	-	-	-	58	-	-
1966-W16	2439138.12	1966 Jan 12 1500	Judi-Dart	-	EXAMETNET N01	04 CNAE 6601	-	-	-	CLBI	-	-	-	59	-	-
1966-W14	2439138.14	1966 Jan 12 1523	Judi-Dart	-	EXAMETNET W01	Chaff	-	-	-	WI	-	-	-	60	-	-
1966-W17	2439140.50	1966 Jan 15 0000	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1966-W22	2439144.90	1966 Jan 19 0930	Judi-Dart	-	TERLS-36	ISRO 11.23	TERLS-036	-	-	TERLS	-	-	-	67	-	-
1966-W26	2439152.01	1966 Jan 26 1218	Judi-Dart	-	-	SUPARCO 20/66	-	-	-	SOM	-	-	-	61	-	-
1966-W27	2439152.50	1966 Jan 27 0000	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1966-A25	2439158.15	1966 Feb 1 1541	Judi-Dart	-	-	-	-	-	-	CC	LC43	-	-	40	-	-
1966-W41	2439159.17	1966 Feb 2 1600	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W46	2439159.51	1966 Feb 3 0009	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1966-W49	2439160.33	1966 Feb 3 1959	Judi-Dart	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W52	2439160.42	1966 Feb 3 2200	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W53	2439160.46	1966 Feb 3 2300	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1966-W55	2439160.80	1966 Feb 4 0705	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1966-W59	2439161.14	1966 Feb 4 1526	Loki Dart	-	-	HASP II	-	-	-	WI	-	-	-	60?	-	-
1966-W61	2439161.23	1966 Feb 4 1725	Loki Dart	-	-	HASP III	-	-	-	PM	-	-	-	60?	-	-
1966-W62	2439161.25	1966 Feb 4 1805	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W71	2439164.25	1966 Feb 7 1800	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W72	2439164.43	1966 Feb 7 2219	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-A29	2439165.20	1966 Feb 8 1641	Loki Dart	-	-	-	-	-	-	CC	LC43	-	-	46	-	-
1966-W74	2439165.23	1966 Feb 8 1732	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W83	2439166.15	1966 Feb 9 1541	Loki Dart	-	-	HASP II	-	-	-	WI	-	-	-	60?	-	-
1966-W89	2439166.79	1966 Feb 10 0654	Judi-Dart	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-A35	2439167.12	1966 Feb 10 1500	Loki Dart	-	-	-	-	-	-	CC	LC43	-	-	48?	-	-
1966-W97	2439167.30	1966 Feb 10 1915	Loki Dart	-	-	HASP III	-	-	-	WI	-	-	-	60?	-	-
1966-W100	2439167.46	1966 Feb 10 2300	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1966-W108	2439168.22	1966 Feb 11 1713	Loki Dart	-	-	HASP II	-	-	-	WI	-	-	-	60?	-	-
1966-W109	2439168.26	1966 Feb 11 1811	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-A38	2439168.29	1966 Feb 11 1857	Judi-Dart	-	-	-	-	-	-	CC	LC43	-	-	49	-	-
1966-W119	2439171.27	1966 Feb 14 1827	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W122	2439171.52	1966 Feb 15 0023	Judi-Dart	-	-	-	-	-	-	KAU	-	-	-	60?	-	-
1966-W124	2439172.33	1966 Feb 15 2000	Loki Dart	-	-	Chute	-	-	-	WS	-	-	-	60?	-	-
1966-W125	2439172.65	1966 Feb 16 0330	Judi-Dart	-	TERLS-37	ISRO 11.24	TERLS-037	-	-	TERLS	-	-	-	67	-	-
1966-W126	2439172.69	1966 Feb 16 0430	Judi-Dart	-	-	SUPARCO 21/66	-	-	-	SOM	-	-	-	64	-	-
1966-W127	2439173.07	1966 Feb 16 1336	Judi-Dart	-	-	SUPARCO 22/66	-	-	-	SOM	-	-	-	60	-	-
1966-W484	2439173.09	1966 Feb 16 1405	Judi-Dart	-	EXAMETNET N02	Chaff	-	-	-	CLBI	-	-	-	60	-	-
1966-W132	2439173.25	1966 Feb 16 1805	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W135	2439173.52	1966 Feb 17 0032	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1966-A39	2439174.12	1966 Feb 17 1500	Judi-Dart	-	-	-	-	-	-	CC	LC43	-	-	49	-	-
1966-W136	2439174.20	1966 Feb 17 1651	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W137	2439174.26	1966 Feb 17 1815	Judi-Dart	-	EXAMETNET W02	Chaff	-	-	-	WI	-	-	-	67	-	-
1966-W139	2439174.38	1966 Feb 17 2104	Loki Dart	-	-	Chute	-	-	-	WS	-	-	-	60?	-	-
1966-W140	2439174.53	1966 Feb 18 0045	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W141	2439174.73	1966 Feb 18 0535	Loki Dart	-	-	-	-	-	-	GRLC	-	-	-	60?	-	-
1966-W143	2439175.12	1966 Feb 18 1500	Loki Dart	-	-	Chute	-	-	-	WS	-	-	-	60?	-	-
1966-W144	2439175.22	1966 Feb 18 1720	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W146	2439175.25	1966 Feb 18 1805	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W148	2439175.31	1966 Feb 18 1920	Judi-Dart	-	-	-	-	-	-	KAU	-	-	-	60?	-	-
1966-W149	2439175.33	1966 Feb 18 1950	Loki Dart	-	-	HASP II	-	-	-	WI	-	-	-	60?	-	-
1966-W163	2439178.15	1966 Feb 21 1530	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W173	2439180.13	1966 Feb 23 1504	Loki Dart	-	-	HASP II	-	-	-	WI	-	-	-	60?	-	-
1966-A42	2439180.16	1966 Feb 23 1557	Judi-Dart	-	-	-	-	-	-	CC	LC43	-	-	49	-	-
1966-W175	2439180.25	1966 Feb 23 1805	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W176	2439180.26	1966 Feb 23 1817	Judi-Dart	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W181	2439180.50	1966 Feb 24 0006	Judi-Dart	-	-	-	-	-	-	KMR	-	-	-	60?	-	-
1966-W189	2439182.32	1966 Feb 25 1941	Judi-Dart	-	-	-	-	-	-	WI	-	-	-	60?	-	-
1966-W213	2439185.20	1966 Feb 28 1651	Judi-Dart	-	-	-	-	-	-	PM	-	-	-	60?	-	-
1966-W214	2439185.25	1966 Feb 28 1800	Loki Dart	-	-	Chaff	-	-	-	WS	-	-	-	60?	-	-
1966-W217	2439187.16	1966 Mar 2 1548	Judi-Dart	-	EXAMETNET N03	07 CNAE 6604 Chaff	-	-	-	CLBI	-	-	-	60	-	-
1966-W493	2439187.30	1966 Mar 2 1915	Judi-Dart	-	EXAMETNET W03	WOX-1A	-	-	-	WI	-	-	-	57	-	-
1966-W224	2439201.01	1966 Mar 16 1210	Judi-Dart	-	TERLS-38	ISRO 11.25	TERLS-038	-	-	TERLS	-	-	-	62	-	-
1966-W225	2439201.12	1966 Mar 16 1500	Judi-Dart	-	EXAMETNET N04	08 CNAE 6605 Chaff	-	-	-	CLBI	-	-	-	64	-	-
1966-W226	2439201.13	1966 Mar 16 1510:00	Judi-Dart	-	SUPARCO 23	-	-	-	-	SOM	-	-	-	62	-	-
1966-W494	2439201.18	1966 Mar 16 1623	Judi-Dart	-	EXAMETNET W04	WOX-1A	-	-	-	WI	-	-	-	57	-	-
1966-W227	2439209.74	1966 Mar 25 0539:00	Judi-Dart	-	SUPARCO 24	-	-	-	-	SOM	-	-	-	66	-	-
1966-W495	2439215.17	1966 Mar 30 1603	Judi-Dart	-	EXAMETNET W05	Chaff	-	-	-	WI	-	-	-	62	-	-
1966-W232	2439228.81	1966 Apr 13 0730	Judi-Dart	-	TERLS-43	ISRO 11.26	TERLS-043	-	-	TERLS	-	-	-	69	-	-
1966-W233	2439229.04	1966 Apr 13 1257:00	Judi-Dart	?	SUPARCO-025/66	-	-	-	-	SOM	-	-	-	62	-	-
1966-W485	2439229.16	1966 Apr 13 1547	Judi-Dart	-	EXAMETNET N05	WOX-1A	-	-	-	CLBI	-	-	-	54	-	-
1966-W496	2439230.13	1966 Apr 14 1509	Judi-Dart	-	EXAMETNET W06	WOX-3A	-	-	-	WI	-	-	-	55	-	-
1966-M115	2439235.50	1966 Apr 20	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M116	2439238.17	1966 Apr 22 1606	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-W238	2439243.41	1966 Apr 27 2154	Judi-Dart	-	EXAMETNET C01	Chaff	-	-	-	CELPA	-	-	-	60?	-	-
1966-W497	2439247.58	1966 May 2 0153	Judi-Dart	-	EXAMETNET W07	WOX-3A	-	-	-	WI	-	-	-	53	-	-
1966-W248	2439247.58	1966 May 2 0155	Judi-Dart	-	EXAMETNET N06	13 CNAE 6610 WOX-1A	-	-	-	CLBI	-	-	-	52	-	-
1966-W257	2439264.09	1966 May 18 1415:00	Judi-Dart	?	SUPARCO-026/66	-	-	-	-	SOM	-	-	-	62	-	-
1966-W258	2439264.16	1966 May 18 1550	Judi-Dart	-	EXAMETNET N07	14 CNAE 6611 WOX-1A	-	-	-	CLBI	-	-	-	53	-	-
1966-W259	2439264.28	1966 May 18 1842:00	Judi-Dart	-	EXAMETNET C02	M-85 Chaff	-	-	-	CELPA	-	-	-	66	-	-
1966-W260	2439264.35	1966 May 18 2022	Judi-Dart	-	EXAMETNET C03	10-1449 WOX-1A	-	-	-	CELPA	-	-	-	53	-	-
1966-W498	2439265.21	1966 May 19 1701	Judi-Dart	-	EXAMETNET W08	Chaff	-	-	-	WI	-	-	-	65	-	-
1966-W261	2439270.46	1966 May 24 2300:00	Loki Dart	?	SR-031	-	-	-	-	WS	-	-	-	75?	-	-
1966-M117	2439271.12	1966 May 25 1500	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M118	2439272.28	1966 May 26 1838	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M119	2439273.11	1966 May 27 1445	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-W467	2439276.50	1966 Jun	Loki Dart	-	HE test	-	-	-	-	WS	-	-	-	70?	-	-
1966-W468	2439276.50	1966 Jun	Loki Dart	-	HE test	-	-	-	-	WS	-	-	-	70?	-	-
1966-W469	2439276.50	1966 Jun	Loki Dart	-	HE test	-	-	-	-	WS	-	-	-	70?	-	-
1966-W275	2439292.09	1966 Jun 15 1405:00	Judi-Dart	?	SUPARCO-027/66	-	-	-	-	SOM	-	-	-	64	-	-
1966-W276	2439292.32	1966 Jun 15 1943:00	Judi-Dart	-	EXAMETNET C04	10-1450 WOX-1A	-	-	-	CELPA	-	-	-	75?	-	-
1966-W278	2439294.54	1966 Jun 18 0055:00	Loki Dart	?	NA-HESTER	-	-	-	-	EGL	-	-	-	55	-	-
1966-A78	2439294.94	1966 Jun 18 1028:00	Loki Dart	?	NA-JOHANNA	-	-	-	-	EGL	-	-	-	38	-	-
1966-M120	2439313.18	1966 Jul 6 1615	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M121	2439315.19	1966 Jul 8 1630	Loki Dart	-	-	Chute	-	-	-	CC	-	-	-	60?	-	-
1966-W470	2439315.23	1966 Jul 8 1725	Loki Dart	-	HE test	-	-	-	-	WS	-	-	-	66	-	-
1966-W471	2439315.32	1966 Jul 8 1936	Loki Dart	-	HE test	-	-	-	-	WS	-	-	-	89	-	-
1966-A86	2439319.76	1966 Jul 13 0620	Judi-Dart	-	TERLS-45	ISRO 11.27	TERLS-045	-	-	TERLS	-	-	-	45	-	-
1966-W290	2439319.81	1966 Jul 13 0730:00	Judi-Dart	?	SUPARCO-028/66	-	-	-	-	SOM	-	-	-	60	-	-
1966-W291	2439320.45	1966 Jul 13 2244:00	Judi-Dart	-	EXAMETNET C05	10-1448 WOX-1A	-	-	-	CELPA	-	-	-	75?	-	-
1966-W292	2439320.55	1966 Jul 14 0118:00	Judi-Dart	?	EXAMETNET C06?	P-467	-	-	-	CELPA	-	-	-	75?	-	-
1966-W293	2439321.14	1966 Jul 14 1517:00	Judi-Dart	-	EXAMETNET C07	P-462 WOX-1A	-	-	-	CELPA	-	-	-	75?	-	-
1966-W472	2439344.40	1966 Aug 6 2140?	Loki Dart	-	HE motor	HE G1	-	-	-	GRLY	-	-	-	20?	-	-
1966-W473	2439344.49	1966 Aug 6 2340?	Loki Dart	-	HE motor	HE G2	-	-	-	GRLY	-	-	-	82?	-	-
1966-W500	2439344.82	1966 Aug 7 0736	Judi-Dart	-	EXAMETNET W13	WOX-3A	-	-	-	WI	-	-	-	56	-	-
1966-W474	2439344.91	1966 Aug 7 0945?	Loki Dart	-	HE motor	HE G3	-	-	-	GRLY	-	-	-	80?	-	-
1966-W475	2439344.99	1966 Aug 7 1140?	Loki Dart	-	HE motor	HE G4	-	-	-	GRLY	-	-	-	80?	-	-
1966-W476	2439345.40	1966 Aug 7 2140?	Loki Dart	-	HE motor	HE G5	-	-	-	GRLY	-	-	-	80?	-	-
1966-W477	2439345.49	1966 Aug 7 2340?	Loki Dart	-	HE motor	HE G6	-	-	-	GRLY	-	-	-	82	-	-
1966-W478	2439345.91	1966 Aug 8 0950?	Loki Dart	-	HE motor	HE G7	-	-	-	GRLY	-	-	-	82?	-	-
1966-W479	2439345.99	1966 Aug 8 1140?	Loki Dart	-	HE motor	HE G8	-	-	-	GRLY	-	-	-	80?	-	-
1966-W480	2439346.40	1966 Aug 8 2140?	Loki Dart	-	HE motor	HE G9	-	-	-	GRLY	-	-	-	80?	-	-
1966-W481	2439346.49	1966 Aug 8 2340?	Loki Dart	-	HE motor	HE G10	-	-	-	GRLY	-	-	-	80?	-	-
1966-Y34	2439355.19	1966 Aug 17 1630	Judi-Dart	-	EXAMETNET C08	WOX-1A	-	-	-	CELPA	-	-	-	61	-	-
1966-W306	2439355.10	1966 Aug 17 1430:00	Judi-Dart	?	SUPARCO-029/66	-	-	-	-	SOM	-	-	-	62	-	-
1966-W334	2439377.28	1966 Sep 8 1841	Judi-Dart	-	EXAMETNET C09	WOX-1A	-	-	-	CELPA	-	-	-	60	-	-
1966-W335	2439383.30	1966 Sep 14 1915	Judi-Dart	-	EXAMETNET C10	WOX-1A	-	-	-	CELPA	-	-	-	61	-	-
1966-M122	2439389.50	1966 Sep 21	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M123	2439389.50	1966 Sep 21	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-W337	2439390.19	1966 Sep 21 1640	Judi-Dart	-	EXAMETNET C11	WOX-1A	-	-	-	CELPA	-	-	-	62	-	-
1966-M124	2439390.50	1966 Sep 22	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-W483	2439404.53	1966 Oct 6 0040	Judi-Dart	-	EXAMETNET C12?	Chaff	-	-	-	CELPA	-	-	-	67	-	-
1966-W501	2439405.11	1966 Oct 6 1440	Judi-Dart	-	EXAMETNET W19	Chaff	-	-	-	WI	-	-	-	66	-	-
1966-W350	2439411.10	1966 Oct 12 1420:00	Judi-Dart	?	SUPARCO-031/66	-	-	-	-	SOM	-	-	-	69	-	-
1966-W486	2439411.12	1966 Oct 12 1500	Judi-Dart	-	EXAMETNET N15	WOX-1A	-	-	-	CLBI	-	-	-	55	-	-
1966-W502	2439412.32	1966 Oct 13 1938	Judi-Dart	-	EXAMETNET W20	WOX-1A	-	-	-	WI	-	-	-	55	-	-
1966-W352	2439412.48	1966 Oct 13 2330	Judi-Dart	-	EXAMETNET C13?	Chaff	-	-	-	CELPA	-	-	-	70	-	-
1966-W465	2439413.08	1966 Oct 14 1355	Judi-Dart	-	INTA H-6601	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M132	2439419.96	1966 Oct 21 1100	Judi-Dart	-	INTA H-6602	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M133	2439424.99	1966 Oct 26 1140	Judi-Dart	-	INTA H-6603	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M134	2439431.95	1966 Nov 2 1054	Judi-Dart	-	INTA H-6604	-	-	-	-	ELAR	-	-	-	70?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-M135	2439438.99	1966 Nov 9 1139	Judi-Dart	-	INTA H-6605	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M125	2439444.29	1966 Nov 14 1900	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M126	2439444.34	1966 Nov 14 2007	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M127	2439445.14	1966 Nov 15 1520	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-M128	2439444.50	1966 Nov 15	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1966-W371	2439446.08	1966 Nov 16 1401:00	Judi-Dart	?	SUPARCO-032/66	-	-	-	-	SOM	-	-	-	64	-	-
1966-W372	2439446.15	1966 Nov 16 1530	Judi-Dart	-	EXAMETNET C14?	WOX-1A	-	-	-	TART	-	-	-	61	-	-
1966-M136	2439447.96	1966 Nov 18 1109	Judi-Dart	-	INTA H-6606	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M137	2439452.96	1966 Nov 23 1105	Judi-Dart	-	INTA H-6607	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M138	2439461.96	1966 Dec 2 1106	Judi-Dart	-	INTA H-6608	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M139	2439466.96	1966 Dec 7 1100	Judi-Dart	-	INTA H-6609	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-M140	2439468.98	1966 Dec 9 1135	Judi-Dart	-	INTA H-6610	-	-	-	-	ELAR	-	-	-	70?	-	-
1966-W385	2439469.65	1966 Dec 10 0337:00	Loki Dart	?	-	-	-	-	-	ANT	-	-	-	75?	-	-
1966-W388	2439469.77	1966 Dec 10 0628:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	75?	-	-
1966-W390	2439469.77	1966 Dec 10 0630:00	Loki Dart	?	-	-	-	-	-	SHER	-	-	-	75?	-	-
1966-W394	2439474.09	1966 Dec 14 1407	Judi-Dart	-	EXAMETNET C14A?	-	-	-	-	CELPA	-	-	-	60	-	-
1966-W395	2439474.35	1966 Dec 14 2025	Judi-Dart	-	EXAMETNET C15	WOX-1A	-	-	-	CELPA	-	-	-	60	-	-
1966-W503	2439474.36	1966 Dec 14 2039	Judi-Dart	-	EXAMETNET W22	Robinette	-	-	-	WI	-	-	-	66	-	-
1967-W25	2439509.09	1967 Jan 18 1415	Judi-Dart	-	EXAMETNET C16	Chaff	-	-	-	CELPA	-	-	-	68	-	-
1967-W300	2439509.12	1967 Jan 18 1500	Judi-Dart	-	EXAMETNET N17	Chaff	-	-	-	CLBI	-	-	-	67	-	-
1967-M134	2439521.21	1967 Jan 30 1703	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M135	2439522.17	1967 Jan 31 1608	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-W301	2439523.12	1967 Feb 1 1500	Judi-Dart	-	EXAMETNET N18	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1967-W316	2439531.13	1967 Feb 9 1501	Judi-Dart	-	EXAMETNET W26	Chaff	-	-	-	WI	-	-	-	70	-	-
1967-W48	2439537.08	1967 Feb 15 1401	Judi-Dart	-	EXAMETNET C17	Chaff	-	-	-	CELPA	-	-	-	69	-	-
1967-W302	2439537.12	1967 Feb 15 1500	Judi-Dart	-	EXAMETNET N19	Chaff	-	-	-	CLBI	-	-	-	64	-	-
1967-W303	2439544.12	1967 Feb 22 1500	Judi-Dart	-	EXAMETNET N20	Chaff	-	-	-	CLBI	-	-	-	60?	-	-
1967-M136	2439549.12	1967 Feb 27 1500	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M137	2439550.19	1967 Feb 28 1630	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-W304	2439551.12	1967 Mar 1 1500	Judi-Dart	-	EXAMETNET N21	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1967-W317	2439553.20	1967 Mar 3 1648	Judi-Dart	-	EXAMETNET W28	Chaff	-	-	-	WI	-	-	-	67	-	-
1967-A63	2439564.97	1967 Mar 15 1110	Judi-Dart	-	EXAMETNET C18	[Not in SP-176]	-	-	-	CELPA	-	-	-	32	-	-
1967-W318	2439566.10	1967 Mar 16 1429	Judi-Dart	-	EXAMETNET W30	WOX-3A	-	-	-	WI	-	-	-	59	-	-
1967-W305	2439572.12	1967 Mar 22 1500	Judi-Dart	-	EXAMETNET N22	Chaff	-	-	-	CLBI	-	-	-	60?	-	-
1967-W319	2439572.28	1967 Mar 22 1845	Judi-Dart	-	EXAMETNET W31	Chaff	-	-	-	WI	-	-	-	71	-	-
1967-W306	2439579.19	1967 Mar 29 1627	Judi-Dart	-	EXAMETNET N23	Chaff	-	-	-	CLBI	-	-	-	67	-	-
1967-W320	2439579.33	1967 Mar 29 1952	Judi-Dart	-	EXAMETNET W32	Chaff	-	-	-	WI	-	-	-	68	-	-
1967-W94	2439588.89	1967 Apr 8 0925:00	Loki Dart	?	-	-	-	-	-	EGL	-	-	-	75?	-	-
1967-M138	2439591.50	1967 Apr 11	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M139	2439592.50	1967 Apr 12	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-W97	2439593.12	1967 Apr 12 1446	Judi-Dart	-	EXAMETNET C19	Chaff	-	-	-	CELPA	-	-	-	70	-	-
1967-M140	2439620.10	1967 May 9 1421	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M141	2439619.50	1967 May 9	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M142	2439623.14	1967 May 12 1527	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M143	2439623.19	1967 May 12 1627	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-M144	2439628.97	1967 May 18 1115	Loki Dart	-	-	Ballute	-	-	-	CC	-	-	-	60?	-	-
1967-W307	2439656.13	1967 Jun 14 1511	Judi-Dart	-	EXAMETNET N24	Chaff	-	-	-	CLBI	-	-	-	61	-	-
1967-W326	2439658.50	1967 Jun 17	Loki Dart PWN-8B	-	JD-07-14	Qual Test 1-1	-	-	-	CSB	-	-	-	64	-	-
1967-W327	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-15	Qual Test 1-2	-	-	-	CSB	-	-	-	65	-	-
1967-A153	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-16	Qual Test 1-3	-	-	-	CSB	-	-	-	20?	-	-
1967-A154	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-17	Qual Test 1-4	-	-	-	CSB	-	-	-	20?	-	-
1967-W308	2439677.12	1967 Jul 5 1500	Judi-Dart	-	EXAMETNET N25	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1967-W309	2439684.21	1967 Jul 12 1658	Judi-Dart	-	EXAMETNET N26	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1967-W151	2439684.21	1967 Jul 12 1702	Judi-Dart	-	EXAMETNET C22	[Not in SP-176]	-	-	-	CELPA	-	-	-	70	-	-
1967-A155	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-01	Qual Test 2-1	-	-	-	CSB	-	-	-	12	-	-
1967-W328	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-02	Qual Test 2-2	-	-	-	CSB	-	-	-	61	-	-
1967-A156	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-03	Qual Test 2-3	-	-	-	CSB	-	-	-	20?	-	-
1967-W310	2439705.12	1967 Aug 2 1500	Judi-Dart	-	EXAMETNET N27	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1967-W167	2439719.10	1967 Aug 16 1425	Judi-Dart	-	EXAMETNET C23	Chaff	-	-	-	CELPA	-	-	-	68	-	-
1967-W311	2439719.12	1967 Aug 16 1500	Judi-Dart	-	EXAMETNET N28	Chaff	-	-	-	CLBI	-	-	-	67	-	-
1967-W312	2439747.12	1967 Sep 13 1500	Judi-Dart	-	EXAMETNET N29	Chaff	-	-	-	CLBI	-	-	-	64	-	-
1967-W178	2439747.35	1967 Sep 13 2030	Judi-Dart	-	EXAMETNET C24	Chaff	-	-	-	CELPA	-	-	-	69	-	-
1967-W193	2439776.50	1967 Oct 13	Loki Dart	-	162	-	-	-	-	WS	-	-	-	70	-	-
1967-W195	2439782.38	1967 Oct 18 2103	Judi-Dart	-	EXAMETNET C25	Chaff	-	-	-	CELPA	-	-	-	67	-	-
1967-W196	2439782.50	1967 Oct 19	Loki Dart	-	173	-	-	-	-	WS	-	-	-	66	-	-
1967-W198	2439783.50	1967 Oct 20	Loki Dart	-	175	-	-	-	-	WS	-	-	-	73	-	-
1967-W313	2439789.19	1967 Oct 25 1630	Judi-Dart	-	EXAMETNET N30	Chaff	-	-	-	CLBI	-	-	-	64	-	-
1967-W211	2439796.50	1967 Nov 2	Loki Dart	-	182	-	-	-	-	WS	-	-	-	60	-	-
1967-W213	2439802.50	1967 Nov 8	Loki Dart	-	187 R114	-	-	-	-	WS	-	-	-	73	-	-
1967-W314	2439810.08	1967 Nov 15 1400	Judi-Dart	-	EXAMETNET N31	Chaff	-	-	-	CLBI	-	-	-	67	-	-
1967-W323	2439810.24	1967 Nov 15 1744	Judi-Dart	-	EXAMETNET W62	Chaff	-	-	-	WI	-	-	-	70	-	-
1967-W220	2439814.72	1967 Nov 20 0515	Judi-Dart	-	TERLS-53	ISRO 11.28	TERLS-053	-	-	TERLS	-	-	-	53	-	-
1967-W226	2439823.59	1967 Nov 29 0210	Judi-Dart	?	SUPARCO-033/67	-	-	-	-	SOM	-	-	-	60	-	-
1967-W324	2439831.32	1967 Dec 6 1945	Judi-Dart	-	EXAMETNET W65	Chaff	-	-	-	WI	-	-	-	66	-	-
1967-W236	2439836.88	1967 Dec 12 0913:00	Judi-Dart	?	SUPARCO-034/67	-	-	-	-	SOM	-	-	-	63	-	-
1967-W237	2439838.08	1967 Dec 13 1355	Judi-Dart	-	EXAMETNET C27	Chaff	-	-	-	CELPA	-	-	-	69	-	-
1967-W315	2439838.12	1967 Dec 13 1500	Judi-Dart	-	EXAMETNET N32	Chaff	-	-	-	CLBI	-	-	-	69	-	-
1967-W329	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-1	Qual Test 3-1	-	-	-	CSB	-	-	-	66	-	-
1967-W330	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-2	Qual Test 3-2	-	-	-	CSB	-	-	-	65	-	-
1967-W331	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-3	Qual Test 3-3	-	-	-	CSB	-	-	-	61	-	-
1967-W332	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-4	Qual Test 3-4	-	-	-	CSB	-	-	-	66	-	-
1967-W333	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-5	Qual Test 3-5	-	-	-	CSB	-	-	-	65	-	-
1967-W334	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-6	Qual Test 3-6	-	-	-	CSB	-	-	-	66	-	-
1967-W335	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-7	Qual Test 3-7	-	-	-	CSB	-	-	-	68	-	-
1967-W336	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-8	Qual Test 3-8	-	-	-	CSB	-	-	-	64	-	-
1967-W239	2439844.90	1967 Dec 20 0939	Judi-Dart	-	TERLS-55	ISRO 11.29	TERLS-055	-	-	TERLS	-	-	-	55	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W18	2439855.50	1968 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W19	2439855.50	1968 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W20	2439855.50	1968 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W21	2439855.50	1968 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W22	2439855.50	1968 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-M45	2439873.00	1968 Jan 17 1157	Judi-Dart	-	INTA H-6801	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M46	2439879.97	1968 Jan 24 1114	Judi-Dart	-	INTA H-6802	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M47	2439886.97	1968 Jan 31 1118	Judi-Dart	-	INTA H-6803	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-W299	2439873.12	1968 Jan 17 1500	Judi-Dart	-	EXAMETNET N33	WOX-1A	-	-	-	CLBI	-	-	-	56	-	-
1968-W301	2439887.13	1968 Jan 31 1512	Judi-Dart	-	EXAMETNET N34	Chaff	-	-	-	CLBI	-	-	-	60	-	-
1968-W44	2439888.50	1968 Feb 2	Judi-Dart	-	-	-	-	-	-	TERLS	-	-	-	70?	-	-
1968-W316	2439894.20	1968 Feb 7 1644	Judi-Dart	-	EXAMETNET W 71	Chaff	-	-	-	WI	-	-	-	65	-	-
1968-W48	2439901.06	1968 Feb 14 1333	Judi-Dart	-	EXAMETNET C29	Chaff	-	-	-	CELPA	-	-	-	68	-	-
1968-M48	2439901.18	1968 Feb 14 1622	Judi-Dart	-	INTA H-6804	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M49	2439908.90	1968 Feb 22 0938	Judi-Dart	-	INTA H-6805	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M50	2439914.98	1968 Feb 28 1135	Judi-Dart	-	INTA H-6806	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M51	2439928.98	1968 Mar 13 1134	Judi-Dart	-	INTA H-6807	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-W70	2439936.17	1968 Mar 20 1600:00	Judi-Dart	-	EXAMETNET C31	Chaff	-	-	-	CELPA	-	-	-	72	-	-
1968-W82	2439950.07	1968 Apr 03 1339:00	Judi-Dart	-	EXAMETNET C33	Chaff	-	-	-	CELPA	-	-	-	70	-	-
1968-W302	2439964.12	1968 Apr 17 1500	Judi-Dart	-	EXAMETNET N35	WOX-1A	-	-	-	CLBI	-	-	-	60?	-	-
1968-W89	2439964.18	1968 Apr 17 1626:00	Judi-Dart	-	EXAMETNET C35	Chaff	-	-	-	CELPA	-	-	-	72	-	-
1968-W326	2439964.29	1968 Apr 17 1851	Judi-Dart	-	EXAMETNET W 81	WOX-1A	-	-	-	WI	-	-	-	57	-	-
1968-W327	2439971.17	1968 Apr 24 1612	Judi-Dart	-	EXAMETNET W 82	WOX-1A	-	-	-	WI	-	-	-	51	-	-
1968-W303	2439978.12	1968 May 1 1500	Judi-Dart	-	EXAMETNET N36	Chaff	-	-	-	CLBI	-	-	-	62	-	-
1968-W328	2439979.12	1968 May 2 1459	Judi-Dart	-	EXAMETNET W 83	WOX-1A	-	-	-	WI	-	-	-	60	-	-
1968-W99	2439983.09	1968 May 6 1415	Loki Dart	-	Cal for Super Loki	-	-	-	-	WS	-	-	-	55	-	-
1968-W100	2439983.15	1968 May 6 1530	Loki Dart	-	Cal for Super Loki	HE Loki	-	-	-	WS	-	-	-	72	-	-
1968-W304	2439992.12	1968 May 15 1500	Judi-Dart	-	EXAMETNET N37	WOX-1A	-	-	-	CLBI	-	-	-	52	-	-
1968-W103	2439992.33	1968 May 15 1955:00	Judi-Dart	-	EXAMETNET C36	Chaff	-	-	-	CELAT	-	-	-	68?	-	-
1968-W108	2439997.10	1968 May 20 1430	Loki Dart	-	Cal for Super Loki	HE Loki	-	-	-	WS	-	-	-	85?	-	-
1968-W109	2439997.20	1968 May 20 1655	Loki Dart	-	Cal for Super Loki	-	-	-	-	WS	-	-	-	60?	-	-
1968-W305	2440006.12	1968 May 29 1500	Judi-Dart	-	EXAMETNET N38	Chaff	-	-	-	CLBI	-	-	-	63	-	-
1968-W111	2440006.23	1968 May 29 1732	Judi-Dart	-	EXAMETNET C37	Chaff	-	-	-	CELAT	-	-	-	71	-	-
1968-W122	2440007.50	1968 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W306	2440020.13	1968 Jun 12 1502	Judi-Dart	-	EXAMETNET N39	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1968-W128	2440034.20	1968 Jun 26 1650:00	Judi-Dart	-	EXAMETNET C39	Chaff	-	-	-	CELAT	-	-	-	69	-	-
1968-W163	2440069.44	1968 Jul 31 2228:00	Judi-Dart	-	EXAMETNET C41	Chaff	-	-	-	CELAT	-	-	-	65	-	-
1968-W340	2440077.13	1968 Aug 8 1506	Judi-Dart	-	EXAMETNET W 95	WOX-1A	-	-	-	WI	-	-	-	59	-	-
1968-W170	2440097.44	1968 Aug 28 2240:00	Judi-Dart	-	EXAMETNET C43	Chaff	-	-	-	CELAT	-	-	-	68	-	-
1968-W177	2440099.50	1968 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W178	2440099.50	1968 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-M52	2440103.93	1968 Sep 4 1013	Judi-Dart	-	INTA H-6808	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M53	2440110.92	1968 Sep 11 1000	Judi-Dart	-	INTA H-6809	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-W283	2440111.28	1968 Sep 11 1845	Loki Dart	?	STS	Balloon Cal	-	-	-	WS	-	-	-	60?	-	-
1968-M54	2440112.97	1968 Sep 13 1120	Judi-Dart	-	INTA H-6810	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M55	2440117.92	1968 Sep 18 1011	Judi-Dart	-	INTA H-6811	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-M56	2440124.95	1968 Sep 25 1054	Judi-Dart	-	INTA H-6812	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-W294	2440125.33	1968 Sep 25 1959	Judi-Dart	-	EXAMETNET C45	Chaff	-	-	-	CELAT	-	-	-	65?	-	-
1968-M57	2440138.95	1968 Oct 9 1042	Judi-Dart	-	INTA H-6813	-	-	-	-	ELAR	-	-	-	60?	-	-
1968-W216	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W217	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W218	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W219	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W220	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W221	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W222	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W223	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W224	2440129.50	1968 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W295	2440132.14	1968 Oct 2 1520	Judi-Dart	-	EXAMETNET C46	Chaff	-	-	-	CELAT	-	-	-	65	-	-
1968-W238	2440160.50	1968 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W239	2440160.50	1968 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W240	2440160.50	1968 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W241	2440160.50	1968 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W242	2440160.50	1968 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W359	2440168.16	1968 Nov 7 1551	Loki Dart	-	EXAMETNET W 108	Datasonde	-	-	-	WI	-	-	-	64	-	-
1968-W354	2440174.16	1968 Nov 13 1552	Loki Dart	-	EXAMETNET W 109	Datasonde	-	-	-	WI	-	-	-	68	-	-
1968-W355	2440181.16	1968 Nov 20 1556	Loki Dart	-	EXAMETNET W 110	Datasonde	-	-	-	WI	-	-	-	43	-	-
1968-W356	2440188.18	1968 Nov 27 1626	Loki Dart	-	EXAMETNET W 111	Datasonde	-	-	-	WI	-	-	-	63	-	-
1968-W259	2440190.50	1968 Dec	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W260	2440190.50	1968 Dec	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W261	2440190.50	1968 Dec	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W262	2440190.50	1968 Dec	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W263	2440190.50	1968 Dec	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1968-W357	2440196.14	1968 Dec 5 1525	Loki Dart	-	EXAMETNET W 112	Datasonde	-	-	-	WI	-	-	-	61	-	-
1968-W358	2440210.31	1968 Dec 19 1922	Loki Dart	-	EXAMETNET W 114	Datasonde	-	-	-	WI	-	-	-	57	-	-
1969-W04	2440221.50	1969 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W57	2440232.41	1969 Jan 10 2144:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W71	2440236.34	1969 Jan 14 2010	Loki Dart	?	-	Rocketsonde	-	-	-	WS	-	-	-	70?	-	-
1969-A22	2440239.25	1969 Jan 17 1755:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	40	-	-
1969-W96	2440239.32	1969 Jan 17 1933:59	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1969-W101	2440241.99	1969 Jan 20 1148:59	Judi-Dart	-	INTA H-6901	-	-	-	-	ELAR	-	-	-	53	-	-
1969-W111	2440243.21	1969 Jan 21 1655:59	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1969-W116	2440243.29	1969 Jan 21 1901:59	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W117	2440243.96	1969 Jan 22 1056:59	Judi-Dart	-	INTA H-6902	-	-	-	-	ELAR	-	-	-	62	-	-
1969-W124	2440244.21	1969 Jan 22 1700:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W128	2440244.45	1969 Jan 22 2253:59	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	52	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W131	2440245.25	1969 Jan 23 1755:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W135	2440245.95	1969 Jan 24 1054:59	Judi-Dart	-	INTA H-6903	-	-	-	-	ELAR	-	-	-	58	-	-
1969-W139	2440246.25	1969 Jan 24 1756:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W151	2440249.78	1969 Jan 28 0649:59	Judi-Dart	?	-	Starute	-	-	-	FC	-	-	-	61	-	-
1969-W152	2440249.86	1969 Jan 28 0837:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1969-W155	2440250.95	1969 Jan 29 1054:59	Judi-Dart	-	INTA H-6904	-	-	-	-	ELAR	-	-	-	50	-	-
1969-W160	2440251.25	1969 Jan 29 1755:00	Judi-Dart	?	-	Starute	-	-	-	FC	-	-	-	54	-	-
1969-W172	2440252.34	1969 Jan 30 2006:00	Judi-Dart	?	-	Starute	-	-	-	FC	-	-	-	54	-	-
1969-A39	2440253.24	1969 Jan 31 1747:00	Judi-Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	47	-	-
1969-W176	2440252.50	1969 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W177	2440252.50	1969 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1969-W215	2440258.93	1969 Feb 6 1023:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W230	2440260.74	1969 Feb 8 0546:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W269	2440267.46	1969 Feb 14 2255:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W280	2440271.71	1969 Feb 19 0456:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W310	2440279.64	1969 Feb 27 0318:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W323	2440281.74	1969 Mar 1 0548:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W346	2440286.62	1969 Mar 6 0248:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W349	2440287.57	1969 Mar 7 0144:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W389	2440294.59	1969 Mar 14 0203:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W399	2440295.59	1969 Mar 15 0203:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-M44	2440299.96	1969 Mar 19 1057	Judi-Dart	-	INTA H-6905	-	-	-	-	ELAR	-	-	-	60?	-	-
1969-W428	2440301.67	1969 Mar 21 0358:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W442	2440305.64	1969 Mar 25 0322:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1969-W453	2440307.56	1969 Mar 27 0131:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W457	2440308.51	1969 Mar 28 0021:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-M45	2440308.57	1969 Mar 28 0139	Judi-Dart	-	INTA H-6906	-	-	-	-	ELAR	-	-	-	60?	-	-
1969-M46	2440309.55	1969 Mar 29 0105	Judi-Dart	-	INTA H-6907	-	-	-	-	ELAR	-	-	-	60?	-	-
1969-W470	2440309.55	1969 Mar 29 0111:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W475	2440312.54	1969 Apr 1 0059:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W519	2440321.61	1969 Apr 10 0240:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W534	2440325.14	1969 Apr 13 1523:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W543	2440326.63	1969 Apr 15 0311:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W547	2440327.97	1969 Apr 16 1113:00	Judi-Dart	-	INTA H-6908	-	-	-	-	ELAR	-	-	-	61	-	-
1969-W594	2440335.60	1969 Apr 24 0222:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W603	2440337.60	1969 Apr 26 0231:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W622	2440341.95	1969 Apr 30 1044:59	Judi-Dart	-	INTA H-6909	-	-	-	-	ELAR	-	-	-	62	-	-
1969-A78	2440349.12	1969 May 7 1457:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	39	-	-
1969-W661	2440349.15	1969 May 7 1538:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W669	2440349.54	1969 May 8 0102:59	Judi-Dart	-	INTA H-6910	-	-	-	-	ELAR	-	-	-	60	-	-
1969-W675	2440351.20	1969 May 9 1649:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W677	2440351.29	1969 May 9 1900	Loki Dart	?	-	Rocketsonde	-	-	-	WS	-	-	-	70?	-	-
1969-W680	2440351.62	1969 May 10 0255:00	Judi-Dart	-	INTA H-6911	-	-	-	-	ELAR	-	-	-	60	-	-
1969-W693	2440354.20	1969 May 12 1645:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	60	-	-
1969-W701	2440355.17	1969 May 13 1602:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W704	2440355.95	1969 May 14 1046:59	Judi-Dart	-	INTA H-6912	-	-	-	-	ELAR	-	-	-	56	-	-
1969-W720	2440358.26	1969 May 16 1811:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-M94	2440360.31	1969 May 18 1928	Loki Dart	-	-	Apollo 10 support	-	-	-	CC	LC43?	-	-	57?	-	-
1969-W742	2440363.55	1969 May 22 0104:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	70	-	-
1969-W754	2440365.29	1969 May 23 1856:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W764	2440368.54	1969 May 27 0053:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1969-W783	2440372.33	1969 May 30 1956:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	68	-	-
1969-W784	2440372.50	1969 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1969-W794	2440377.20	1969 Jun 4 1644:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W803	2440379.22	1969 Jun 6 1713:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W816	2440383.72	1969 Jun 11 0520	Judi-Dart	-	TERLS-110	ISRO 11.30	TERLS-110	-	-	TERLS	-	-	-	65	-	-
1969-W823	2440384.21	1969 Jun 11 1657:59	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64	-	-
1969-W843	2440391.20	1969 Jun 18 1648:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W855	2440393.10	1969 Jun 20 1430:00	Judi-Dart	?	SUPARCO	-	-	-	-	SOM	-	-	-	59	-	-
1969-W885	2440397.76	1969 Jun 25 0612	Judi-Dart	-	TERLS-115	ISRO 11.31	TERLS-115	-	-	TERLS	-	-	-	64	-	-
1969-W901	2440400.20	1969 Jun 27 1654:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W922	2440405.20	1969 Jul 2 1645:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W943	2440412.26	1969 Jul 9 1818:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W953	2440417.10	1969 Jul 14 1431:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W956	2440417.16	1969 Jul 14 1545:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W965	2440418.73	1969 Jul 16 0530	Judi-Dart	-	TERLS-116	ISRO 11.32	TERLS-116	-	-	TERLS	-	-	-	64	-	-
1969-W966	2440419.11	1969 Jul 16 1434:00	Judi-Dart	?	SUPARCO	-	-	-	-	SOM	-	-	-	65	-	-
1969-W968	2440419.13	1969 Jul 16 1511:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W971	2440419.20	1969 Jul 16 1645:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W989	2440425.74	1969 Jul 23 0550	Judi-Dart	-	TERLS-117	ISRO 11.33	TERLS-117	-	-	TERLS	-	-	-	64	-	-
1969-W1011	2440428.23	1969 Jul 25 1733:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-A131	2440432.73	1969 Jul 30 0530	Judi-Dart	-	ISRO 11.34	ISRO 11.34	TERLS-120	-	-	TERLS	-	-	-	29	-	-
1969-W1022	2440433.11	1969 Jul 30 1445:00	Judi-Dart	?	SUPARCO	-	-	-	-	SOM	-	-	-	64	-	-
1969-W1025	2440433.21	1969 Jul 30 1658:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1035	2440435.28	1969 Aug 1 1837:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W1047	2440439.74	1969 Aug 6 0550	Judi-Dart	-	ISRO 11.35	ISRO 11.35	TERLS-121	-	-	TERLS	-	-	-	64	-	-
1969-W1056	2440440.70	1969 Aug 7 0446:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W1079	2440447.33	1969 Aug 13 1956:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W1083	2440449.10	1969 Aug 15 1430:00	Judi-Dart	?	SUPARCO	-	-	-	-	SOM	-	-	-	65	-	-
1969-W1086	2440449.20	1969 Aug 15 1654:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1096	2440452.20	1969 Aug 18 1649:59	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1105	2440453.96	1969 Aug 20 1057	Judi-Dart	-	ISRO 11.36	ISRO 11.36	TERLS-123	-	-	TERLS	-	-	-	64	-	-
1969-W1127	2440456.36	1969 Aug 22 2041:00	Judi-Dart	-	-	Met Para,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1130	2440459.20	1969 Aug 25 1641:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1148	2440461.22	1969 Aug 27 1715:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1159	2440463.20	1969 Aug 29 1654:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1163	2440464.50	1969 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1969-W1164	2440464.50	1969 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1969-W1165	2440464.50	1969 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1969-W1174	2440468.20	1969 Sep 3 1649:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1969-W1210	2440475.10	1969 Sep 10 1430:00	Judi-Dart	?	SUPARCO	-	-	-	-	SOM	-	-	-	63	-	-
1969-W1216	2440475.59	1969 Sep 11 0215:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W1221	2440476.56	1969 Sep 12 0124:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1229	2440477.26	1969 Sep 12 1818:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W1241	2440480.20	1969 Sep 15 1654:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1969-W1255	2440482.20	1969 Sep 17 1649:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1272	2440484.20	1969 Sep 19 1653:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W1284	2440487.27	1969 Sep 22 1834:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1299	2440489.21	1969 Sep 24 1703:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1969-W1320	2440494.20	1969 Sep 29 1651:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W1325	2440494.50	1969 Oct	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1969-W1332	2440496.20	1969 Oct 1 1647:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W1359	2440503.20	1969 Oct 8 1651:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1969-W1377	2440505.54	1969 Oct 11 0053:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W1390	2440509.95	1969 Oct 15 1049:59	Judi-Dart	-	INTA H-6913	-	-	-	-	ELAR	-	-	-	62	-	-
1969-W1401	2440510.64	1969 Oct 16 0327:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W1418	2440512.58	1969 Oct 18 0154:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1423	2440515.64	1969 Oct 21 0322:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1429	2440517.09	1969 Oct 22 1410:00	Judi-Dart	?	SUPARCO-047/69	-	-	-	-	SOM	-	-	-	63	-	-
1969-W1437	2440517.61	1969 Oct 23 0245:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-W1443	2440519.25	1969 Oct 24 1800:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1450	2440522.24	1969 Oct 27 1751:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W1460	2440524.24	1969 Oct 29 1749:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W1477	2440527.50	1969 Nov 2?	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	65?	-	-
1969-W1478	2440528.70	1969 Nov 3 0454:59	Judi-Dart	-	Starute,Datasonde	PCA69 Met	-	-	-	FC	-	-	-	63	-	-
1969-W1483	2440529.05	1969 Nov 3 1310:59	Judi-Dart	-	Starute,Datasonde	PCA69 Met	-	-	-	FC	-	-	-	64	-	-
1969-W1490	2440529.29	1969 Nov 3 1901:59	Judi-Dart	-	Starute,Datasonde	PCA69 Met	-	-	-	FC	-	-	-	63	-	-
1969-W1491	2440529.40	1969 Nov 3 2130:00	Judi-Dart	-	Starute,Datasonde	PCA69 Met	-	-	-	FC	-	-	-	62	-	-
1969-W1505	2440531.31	1969 Nov 5 1927:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1969-W1510	2440532.63	1969 Nov 7 0309:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W1521	2440537.97	1969 Nov 12 1120:00	Judi-Dart	-	INTA H-6914	-	-	-	-	ELAR	-	-	-	62	-	-
1969-W1529	2440538.70	1969 Nov 13 0449:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1969-W1537	2440540.68	1969 Nov 15 0423:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1969-W1543	2440543.24	1969 Nov 17 1747:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1969-W1552	2440544.24	1969 Nov 18 1751:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1969-W1559	2440545.24	1969 Nov 19 1748:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1576	2440550.24	1969 Nov 24 1747:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1579	2440551.24	1969 Nov 25 1749:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1969-W1586	2440551.96	1969 Nov 26 1103:59	Judi-Dart	-	INTA H-6915	-	-	-	-	ELAR	-	-	-	65	-	-
1969-W1589	2440552.24	1969 Nov 26 1744:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1596	2440553.24	1969 Nov 27 1743:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1969-W1553	2440545.11	1969 Nov 19 1435:00	Judi-Dart	?	SUPARCO-048/69	-	-	-	-	SOM	-	-	-	64	-	-
1969-W1564	2440546.08	1969 Nov 20 1350:00	Judi-Dart	?	SUPARCO-049/69	-	-	-	-	SOM	-	-	-	64	-	-
1969-W1608	2440558.24	1969 Dec 2 1747:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1969-W1621	2440560.22	1969 Dec 4 1719:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W1627	2440561.25	1969 Dec 5 1800:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1969-W1643	2440565.53	1969 Dec 10 0045:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1969-A204	2440566.08	1969 Dec 10 1400:00	Judi-Dart	-	INTA H-6916	-	-	-	-	ELAR	-	-	-	35	-	-
1969-W1651	2440566.54	1969 Dec 11 0103:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1969-W1657	2440567.61	1969 Dec 12 0233:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1667	2440568.58	1969 Dec 13 0202:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1969-W1674	2440571.25	1969 Dec 15 1753:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1969-W1682	2440572.24	1969 Dec 16 1748:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1685	2440573.05	1969 Dec 17 1310:00	Judi-Dart	?	SUPARCO-050/69	-	-	-	-	SOM	-	-	-	63	-	-
1969-W1691	2440573.25	1969 Dec 17 1756:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1697	2440574.24	1969 Dec 18 1747:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1969-W1705	2440575.24	1969 Dec 19 1747:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1969-W1738	2440587.05	1969 Dec 31 1315:00	Judi-Dart	?	SUPARCO-051/69	-	-	-	-	SOM	-	-	-	75?	-	-
1970-W06	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W07	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W08	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W09	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W10	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W11	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W12	2440586.50	1970 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-A02	2440589.26	1970 Jan 2 1812:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	46	-	-
1970-W20	2440589.34	1970 Jan 2 2015:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1970-W23	2440589.75	1970 Jan 3 0600:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W24	2440589.77	1970 Jan 3 0633:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W25	2440590.25	1970 Jan 3 1800:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1970-W28	2440590.75	1970 Jan 4 0602:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1970-W29	2440591.25	1970 Jan 4 1802:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W33	2440591.75	1970 Jan 5 0600:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W37	2440592.15	1970 Jan 5 1534:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W39	2440592.24	1970 Jan 5 1748:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W43	2440592.42	1970 Jan 5 2200:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W45	2440592.75	1970 Jan 6 0600:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W49	2440593.68	1970 Jan 7 0417:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W58	2440594.46	1970 Jan 7 2303:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W71	2440596.99	1970 Jan 10 1140:00	Judi-Dart	-	INTA H-7001	-	-	-	-	ELAR	-	-	-	65	-	-
1970-W81	2440600.58	1970 Jan 14 0155:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1970-W82	2440600.98	1970 Jan 14 1135:00	Judi-Dart	-	INTA H-7002	-	-	-	-	ELAR	-	-	-	64	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W83	2440601.04	1970 Jan 14 1300:00	Judi-Dart	?	SUPARCO-052/69	-	-	-	-	SOM	-	-	-	75?	-	-
1970-W84	2440601.08	1970 Jan 14 1400:00	Judi-Dart	?	SUPARCO-053/69?	-	-	-	-	SOM	-	-	-	75?	-	-
1970-W86	2440601.14	1970 Jan 14 1515:00	Judi-Dart	?	SUPARCO-054/69	-	-	-	-	SOM	-	-	-	56	-	-
1970-W94	2440601.52	1970 Jan 15 0022:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1970-W111	2440603.54	1970 Jan 17 0058:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W124	2440606.64	1970 Jan 20 0325:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-A13	2440607.63	1970 Jan 21 0301:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	23	-	-
1970-W128	2440607.63	1970 Jan 21 0301:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W129	2440608.02	1970 Jan 21 1224:59	Judi-Dart	-	INTA H-7003	-	-	-	-	ELAR	-	-	-	66	-	-
1970-W141	2440608.62	1970 Jan 22 0257:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W161	2440613.66	1970 Jan 27 0346:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1970-W163	2440614.97	1970 Jan 28 1118:00	Judi-Dart	-	INTA H-7004	-	-	-	-	ELAR	-	-	-	63	-	-
1970-W175	2440615.64	1970 Jan 29 0317:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W184	2440617.50	1970 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W185	2440617.50	1970 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W186	2440617.50	1970 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W187	2440617.50	1970 Feb	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W197	2440621.62	1970 Feb 4 0258:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W206	2440622.56	1970 Feb 5 0131:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W216	2440624.65	1970 Feb 7 0329:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W233	2440627.76	1970 Feb 10 0614:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1970-W236	2440628.30	1970 Feb 10 1915:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	51	-	-
1970-W238	2440628.96	1970 Feb 11 1100:00	Judi-Dart	-	INTA H-7005	-	-	-	-	ELAR	-	-	-	63	-	-
1970-W240	2440629.06	1970 Feb 11 1330:00	Judi-Dart	?	SUPARCO-055/70	-	-	-	-	SOM	-	-	-	63	-	-
1970-W247	2440629.68	1970 Feb 12 0417:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1970-W252	2440630.51	1970 Feb 13 0019:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1970-W266	2440634.52	1970 Feb 17 0026:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W271	2440635.60	1970 Feb 18 0231:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W282	2440636.58	1970 Feb 19 0202:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W295	2440642.71	1970 Feb 25 0500:00	Judi-Dart	-	INTA H-7006	-	-	-	-	ELAR	-	-	-	59	-	-
1970-W299	2440643.21	1970 Feb 25 1703:59	Judi-Dart	-	INTA H-7007	-	-	-	-	ELAR	-	-	-	61	-	-
1970-W306	2440643.59	1970 Feb 26 0214:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W312	2440644.63	1970 Feb 27 0300:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W324	2440645.67	1970 Feb 28 0409:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W322	2440645.50	1970 Mar	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W372	2440655.55	1970 Mar 10 0107:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W379	2440657.14	1970 Mar 11 1515:00	Judi-Dart	?	SUPARCO-056/70	-	-	-	-	SOM	-	-	-	75?	-	-
1970-W381	2440657.17	1970 Mar 11 1610:00	Judi-Dart	?	SUPARCO-057/70	-	-	-	-	SOM	-	-	-	64	-	-
1970-W387	2440657.78	1970 Mar 12 0643:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W399	2440659.60	1970 Mar 14 0229:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W409	2440662.60	1970 Mar 17 0225:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W418	2440664.61	1970 Mar 19 0238:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1970-W460	2440674.19	1970 Mar 28 1640:00	Judi-Dart	?	SUPARCO-058/70	-	-	-	-	SOM	-	-	-	63	-	-
1970-W540	2440692.07	1970 Apr 15 1345:00	Judi-Dart	?	SUPARCO-059/70	-	-	-	-	SOM	-	-	-	75?	-	-
1970-W542	2440692.11	1970 Apr 15 1445:00	Judi-Dart	?	SUPARCO-060/70	-	-	-	-	SOM	-	-	-	66	-	-
1970-A59	2440705.98	1970 Apr 29 1137:59	Judi-Dart	-	INTA H-7008	-	-	-	-	ELAR	-	-	-	48	-	-
1970-W622	2440706.50	1970 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W623	2440706.50	1970 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W624	2440706.50	1970 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W625	2440706.50	1970 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W626	2440706.50	1970 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W666	2440715.29	1970 May 8 1856:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W680	2440719.95	1970 May 13 1044:59	Judi-Dart	-	INTA H-7009	-	-	-	-	ELAR	-	-	-	61	-	-
1970-W688	2440720.24	1970 May 13 1752:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1970-W706	2440722.21	1970 May 15 1706:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W723	2440726.96	1970 May 20 1101:00	Judi-Dart	-	INTA H-7010	-	-	-	-	ELAR	-	-	-	66	-	-
1970-W732	2440727.21	1970 May 20 1656:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W747	2440729.25	1970 May 22 1800:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W774	2440733.96	1970 May 27 1107:00	Judi-Dart	-	INTA H-7011	-	-	-	-	ELAR	-	-	-	65	-	-
1970-W808	2440741.20	1970 Jun 3 1652:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W842	2440747.96	1970 Jun 10 1100:00	Judi-Dart	-	INTA H-7012	-	-	-	-	ELAR	-	-	-	60	-	-
1970-W850	2440748.31	1970 Jun 10 1930:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	50	-	-
1970-W879	2440754.97	1970 Jun 17 1115:00	Judi-Dart	-	INTA H-7013	-	-	-	-	ELAR	-	-	-	62	-	-
1970-W881	2440755.12	1970 Jun 17 1450:00	Judi-Dart	?	SUPARCO-062/70	-	-	-	-	SOM	-	-	-	64	-	-
1970-W887	2440755.20	1970 Jun 17 1651:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W927	2440761.96	1970 Jun 24 1055:59	Judi-Dart	-	INTA H-7014	-	-	-	-	ELAR	-	-	-	63	-	-
1970-W961	2440769.00	1970 Jul 1 1200:00	Judi-Dart	-	INTA H-7015	-	-	-	-	ELAR	-	-	-	62	-	-
1970-W1029	2440783.13	1970 Jul 15 1505:00	Judi-Dart	?	SUPARCO-063/70	-	-	-	-	SOM	-	-	-	63	-	-
1970-M30	2440789.95	1970 Jul 22 1047	Judi-Dart	-	INTA H-7016	-	-	-	-	ELAR	-	-	-	58	-	-
1970-W1075	2440790.32	1970 Jul 22 1944:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W1106	2440796.95	1970 Jul 29 1054:59	Judi-Dart	-	INTA H-7017	-	-	-	-	ELAR	-	-	-	58	-	-
1970-W1116	2440797.56	1970 Jul 30 0124:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1121	2440798.50	1970 Aug	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W1156	2440804.73	1970 Aug 6 0537:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1970-W1169	2440806.71	1970 Aug 8 0455:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1177	2440809.69	1970 Aug 11 0437:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1193	2440811.49	1970 Aug 12 2344:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1236	2440818.58	1970 Aug 20 0200:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1252	2440823.20	1970 Aug 24 1648:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1258	2440825.12	1970 Aug 26 1452:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W1271	2440827.12	1970 Aug 28 1449:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1277	2440830.11	1970 Aug 31 1443:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W1289	2440832.12	1970 Sep 2 1447:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W1313	2440838.96	1970 Sep 9 1100:00	Judi-Dart	-	INTA H-7018	-	-	-	-	ELAR	-	-	-	58	-	-
1970-W1317	2440839.11	1970 Sep 9 1445:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W1340	2440844.11	1970 Sep 14 1435:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1357	2440845.96	1970 Sep 16 1100:00	Judi-Dart	-	INTA H-7019	-	-	-	-	ELAR	-	-	-	63	-	-
1970-W1360	2440846.13	1970 Sep 16 1513:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-M39	2440846.50	1970 Sep 17	Loki Dart	-	-	-	-	-	-	WI	-	-	-	70?	-	-
1970-W1380	2440847.35	1970 Sep 17 2020:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1386	2440848.15	1970 Sep 18 1538:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1970-W1389	2440848.39	1970 Sep 18 2126:59	Judi-Dart	-	-	Met Para,Arcasonde	-	-	-	FC	-	-	-	64	-	-
1970-W1393	2440851.11	1970 Sep 21 1433:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-M40	2440850.50	1970 Sep 21	Loki Dart	-	-	-	-	-	-	WI	-	-	-	70?	-	-
1970-W1411	2440853.11	1970 Sep 23 1437:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1420	2440854.96	1970 Sep 25 1100:00	Judi-Dart	-	INTA H-7020	-	-	-	-	ELAR	-	-	-	64	-	-
1970-W1438	2440859.96	1970 Sep 30 1100:00	Judi-Dart	-	INTA H-7021	-	-	-	-	ELAR	-	-	-	57	-	-
1970-W1441	2440860.11	1970 Sep 30 1442:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1455	2440865.12	1970 Oct 5 1447:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1468	2440866.96	1970 Oct 7 1100:00	Judi-Dart	-	INTA H-7022	-	-	-	-	ELAR	-	-	-	50	-	-
1970-W1490	2440869.13	1970 Oct 9 1511:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W1513	2440874.13	1970 Oct 14 1500:59	Judi-Dart	-	[Not in FC]	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1970-W1529	2440876.11	1970 Oct 16 1445:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-A112	2440881.01	1970 Oct 21 1209:00	Judi-Dart	-	INTA H-7023	-	-	-	-	ELAR	-	-	-	42	-	-
1970-W1553	2440881.16	1970 Oct 21 1545:00	Judi-Dart	-	-	WOX-1A RSo/Para	-	-	-	SOM	-	-	-	65?	-	-
1970-W1582	2440887.98	1970 Oct 28 1126:59	Judi-Dart	-	INTA H-7024	-	-	-	-	ELAR	-	-	-	61	-	-
1970-W1587	2440888.15	1970 Oct 28 1540:00	Judi-Dart	-	[Not in FC]	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1970-W1606	2440890.15	1970 Oct 30 1537:59	Judi-Dart	-	[Not in FC]	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W1612	2440890.50	1970 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W1617	2440893.16	1970 Nov 2 1551:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1624	2440894.15	1970 Nov 3 1543:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1632	2440895.15	1970 Nov 4 1543:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1643	2440897.15	1970 Nov 6 1537:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1652	2440900.15	1970 Nov 9 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W1660	2440901.24	1970 Nov 10 1742:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1970-W1664	2440903.15	1970 Nov 12 1536:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1674	2440904.35	1970 Nov 13 2027:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W1678	2440907.15	1970 Nov 16 1537:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1684	2440908.15	1970 Nov 17 1537:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W1690	2440909.15	1970 Nov 18 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1970-W1698	2440910.15	1970 Nov 19 1542:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1706	2440911.18	1970 Nov 20 1618:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1716	2440914.24	1970 Nov 23 1752:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1722	2440915.15	1970 Nov 24 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1725	2440916.05	1970 Nov 25 1315:00	Judi-Dart	-	-	WOX-1A Rso/Para	-	-	-	SOM	-	-	-	70?	-	-
1970-W1734	2440916.24	1970 Nov 25 1745:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W1749	2440921.16	1970 Nov 30 1544:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1744	2440920.50	1970 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W1745	2440920.50	1970 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W1746	2440920.50	1970 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1970-W1758	2440922.15	1970 Dec 1 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1970-W1764	2440923.25	1970 Dec 2 1800:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1970-W1769	2440924.16	1970 Dec 3 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1970-W1776	2440925.15	1970 Dec 4 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1970-W1789	2440929.16	1970 Dec 8 1551:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1796	2440930.16	1970 Dec 9 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1801	2440931.16	1970 Dec 10 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1810	2440932.25	1970 Dec 11 1757:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1826	2440937.00	1970 Dec 16 1200:00	Judi-Dart	-	INTA H-7025	-	-	-	-	ELAR	-	-	-	63	-	-
1970-W1839	2440938.16	1970 Dec 17 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	51	-	-
1970-W1846	2440939.16	1970 Dec 18 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1854	2440942.16	1970 Dec 21 1552:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1970-W1860	2440943.16	1970 Dec 22 1548:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1970-W1866	2440944.15	1970 Dec 23 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W1872	2440944.36	1970 Dec 23 2034:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1970-W1875	2440945.16	1970 Dec 24 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1878	2440949.15	1970 Dec 28 1538:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1884	2440950.15	1970 Dec 29 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1889	2440951.15	1970 Dec 30 1540:00	Judi-Dart	-	-	WOX-1A Rso/Para	-	-	-	SOM	-	-	-	75?	-	-
1970-W1890	2440951.19	1970 Dec 30 1627:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1970-W1895	2440952.16	1970 Dec 31 1553:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W01	2440951.50	1971 Jan	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-W05	2440956.16	1971 Jan 4 1556:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1971-W08	2440957.29	1971 Jan 5 1903:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W15	2440958.35	1971 Jan 6 2018:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-W17	2440959.30	1971 Jan 7 1907:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W29	2440960.32	1971 Jan 8 1938:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W39	2440963.35	1971 Jan 11 2026:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W45	2440964.37	1971 Jan 12 2052:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W49	2440965.03	1971 Jan 13 1241:00	Judi-Dart	-	INTA H-7101	-	-	-	-	ELAR	-	-	-	62	-	-
1971-W54	2440965.18	1971 Jan 13 1619:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W57	2440965.32	1971 Jan 13 1936:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W61	2440966.15	1971 Jan 14 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W73	2440967.17	1971 Jan 15 1601:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W76	2440967.39	1971 Jan 15 2122:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-M18	2440967.99	1971 Jan 16 1145	Judi-Dart	-	INTA H-7102	-	-	-	-	ELAR	-	-	-	61	-	-
1971-W89	2440970.55	1971 Jan 19 0107:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W99	2440972.02	1971 Jan 20 1234:59	Judi-Dart	-	INTA H-7103	-	-	-	-	ELAR	-	-	-	61	-	-
1971-W111	2440972.65	1971 Jan 21 0333:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W121	2440973.63	1971 Jan 22 0310:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1971-W129	2440974.60	1971 Jan 23 0219:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W141	2440977.45	1971 Jan 25 2251:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W145	2440978.30	1971 Jan 26 1918:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W152	2440979.18	1971 Jan 27 1622:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W181	2440984.19	1971 Feb 1 1636:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W198	2440986.16	1971 Feb 3 1548:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W221	2440988.48	1971 Feb 5 2326:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W228	2440991.34	1971 Feb 8 2013:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W245	2440993.25	1971 Feb 10 1801:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-M29	2440993.50	1971 Feb 11	Loki Dart	-	HASP	WRE HASP 1A	-	-	-	WOO	-	-	-	60?	-	-
1971-M30	2440993.50	1971 Feb 11	Loki Dart	-	HASP	WRE HASP 1B	-	-	-	WOO	-	-	-	60?	-	-
1971-W250	2440994.16	1971 Feb 11 1555:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W257	2440995.18	1971 Feb 12 1624:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W263	2440998.51	1971 Feb 16 0019:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W266	2440999.53	1971 Feb 17 0041:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1971-W269	2441000.12	1971 Feb 17 1500:00	Judi-Dart	-	INTA H-7104	-	-	-	-	ELAR	-	-	-	65	-	-
1971-W286	2441002.70	1971 Feb 20 0446:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-M19	2441006.98	1971 Feb 24 1130	Judi-Dart	-	INTA H-7105	-	-	-	-	ELAR	-	-	-	65?	-	-
1971-W297	2441007.02	1971 Feb 24 1222:59	Judi-Dart	-	INTA H-7106	-	-	-	-	ELAR	-	-	-	67	-	-
1971-W327	2441013.98	1971 Mar 3 1131:00	Judi-Dart	-	INTA H-7107	-	-	-	-	ELAR	-	-	-	66	-	-
1971-W331	2441014.25	1971 Mar 3 1807:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	52	-	-
1971-W335	2441015.15	1971 Mar 4 1542:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W343	2441016.27	1971 Mar 5 1825:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W356	2441019.61	1971 Mar 9 0244:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W359	2441020.59	1971 Mar 10 0206:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-M20	2441020.98	1971 Mar 10 1135	Judi-Dart	-	INTA H-7108	-	-	-	-	ELAR	-	-	-	65?	-	-
1971-A173	2441027.50	1971 Mar 17	Loki Dart	-	HASP	WRE HASP 4	-	-	-	WOO	-	-	-	30?	-	-
1971-W382	2441027.98	1971 Mar 17 1130:00	Judi-Dart	-	INTA H-7109	-	-	-	-	ELAR	-	-	-	66	-	-
1971-W404	2441033.62	1971 Mar 23 0251:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-A174	2441034.50	1971 Mar 24	Loki Dart	-	HASP	WRE HASP 5	-	-	-	WOO	-	-	-	30?	-	-
1971-W405	2441034.63	1971 Mar 24 0300:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W406	2441035.00	1971 Mar 24 1200:00	Judi-Dart	-	INTA H-7110	-	-	-	-	ELAR	-	-	-	63	-	-
1971-W415	2441036.25	1971 Mar 25 1800:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W422	2441037.31	1971 Mar 26 1927:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W427	2441040.25	1971 Mar 29 1757:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W438	2441042.25	1971 Mar 31 1803:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W448	2441044.25	1971 Apr 2 1803:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W462	2441047.16	1971 Apr 5 1546:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W471	2441049.00	1971 Apr 7 1207:00	Loki Dart	-	INTA HT-7101	-	-	-	-	ELAR	-	-	-	57	-	-
1971-M21	2441056.07	1971 Apr 14 1340	Loki Dart	-	INTA HT-7102	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W509	2441056.18	1971 Apr 14 1613:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W522	2441058.16	1971 Apr 16 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-W548	2441063.25	1971 Apr 21 1757:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W561	2441065.26	1971 Apr 23 1809:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W571	2441068.37	1971 Apr 26 2059:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W586	2441069.98	1971 Apr 28 1135	Loki Dart	-	INTA HT-7103	-	-	-	-	ELAR	-	-	-	58	-	-
1971-W592	2441070.22	1971 Apr 28 1717:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W601	2441072.11	1971 Apr 30 1445:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W599	2441071.50	1971 May	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-W609	2441075.12	1971 May 3 1459:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W619	2441076.98	1971 May 5 1131:00	Loki Dart	-	INTA HT-7104	-	-	-	-	ELAR	-	-	-	57	-	-
1971-W634	2441079.12	1971 May 7 1455:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W642	2441082.12	1971 May 10 1456:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-M22	2441083.98	1971 May 12 1130	Loki Dart	-	INTA HT-7105	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W656	2441084.12	1971 May 12 1457:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W671	2441086.15	1971 May 14 1543:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W686	2441089.20	1971 May 17 1654:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W694	2441090.97	1971 May 19 1115:00	Loki Dart	-	INTA HT-7106	-	-	-	-	ELAR	-	-	-	59	-	-
1971-W699	2441091.13	1971 May 19 1509:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-M23	2441097.98	1971 May 26 1134	Loki Dart	-	INTA HT-7107	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W733	2441098.12	1971 May 26 1446:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W752	2441100.21	1971 May 28 1709:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W757	2441103.28	1971 May 31 1836:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W756	2441102.50	1971 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-M31	2441104.50	1971 Jun 2	Loki Dart	-	HASP	WRE HASP 6	-	-	-	WOO	-	-	-	30?	-	-
1971-M32	2441104.50	1971 Jun 2	Loki Dart	-	HASP	WRE HASP 7	-	-	-	WOO	-	-	-	30?	-	-
1971-W767	2441105.13	1971 Jun 2 1509:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W803	2441112.13	1971 Jun 9 1513:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W831	2441118.99	1971 Jun 16 1142:00	Loki Dart	-	INTA HT-7108	-	-	-	-	ELAR	-	-	-	57	-	-
1971-M33	2441123.50	1971 Jun 21	Loki Dart	-	HASP	WRE HASP 8	-	-	-	WOO	-	-	-	60?	-	-
1971-A175	2441123.50	1971 Jun 21	Loki Dart	-	HASP	WRE HASP 9	-	-	-	WOO	-	-	-	30?	-	-
1971-W856	2441126.22	1971 Jun 23 1722:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W862	2441127.16	1971 Jun 24 1556:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-M24	2441132.98	1971 Jun 30 1134	Loki Dart	-	INTA HT-7109	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W884	2441133.12	1971 Jun 30 1448:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W895	2441134.17	1971 Jul 1 1604:59	Loki Dart	-	[MC-71-1]	Starute,Datasonde	-	-	-	CELAT	-	-	-	55	-	-
1971-W899	2441135.16	1971 Jul 2 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-A62	2441139.98	1971 Jul 7 1137:59	Loki Dart	-	INTA HT-7110	-	-	-	-	ELAR	-	-	-	40	-	-
1971-W911	2441140.14	1971 Jul 7 1520:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W928	2441145.15	1971 Jul 12 1534:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-A176	2441146.50	1971 Jul 14	Loki Dart	-	HASP	WRE HASP 10	-	-	-	WOO	-	-	-	30?	-	-
1971-W943	2441148.18	1971 Jul 15 1614:59	Loki Dart	-	[MC-71-2]	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1971-W961	2441152.32	1971 Jul 19 1935:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-M25	2441153.98	1971 Jul 21 1135	Loki Dart	-	INTA HT-7111	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W971	2441154.14	1971 Jul 21 1523:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-M34	2441159.50	1971 Jul 27	Loki Dart	-	HASP	WRE HASP 11	-	-	-	WOO	-	-	-	60?	-	-
1971-W1009	2441161.13	1971 Jul 28 1500:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1971-W1014	2441161.21	1971 Jul 28 1704:59	Loki Dart	-	[MC-71-3]	Starute,Datasonde	-	-	-	CELAT	-	-	-	55	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-A64	2441163.50	1971 Aug	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	10?	-	-
1971-W1029	2441163.50	1971 Aug	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-W1030	2441163.50	1971 Aug	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-M35	2441166.50	1971 Aug 3	Loki Dart	-	HASP	WRE HASP 12	-	-	-	WOO	-	-	-	60?	-	-
1971-W1049	2441168.14	1971 Aug 4 1523:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1971-W1063	2441170.12	1971 Aug 6 1446:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1084	2441175.14	1971 Aug 11 1517:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1147	2441187.12	1971 Aug 23 1447:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1161	2441189.13	1971 Aug 25 1507:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1172	2441191.12	1971 Aug 27 1456:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1182	2441194.13	1971 Aug 30 1504:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1190	2441195.14	1971 Aug 31 1527:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-A73	2441194.50	1971 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	10?	-	-
1971-W1187	2441194.50	1971 Sep	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	64?	-	-
1971-W1200	2441196.12	1971 Sep 1 1458:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1222	2441202.98	1971 Sep 8 1135:00	Loki Dart	-	INTA HT-7112	-	-	-	-	ELAR	-	-	-	54	-	-
1971-A75	2441203.31	1971 Sep 8 1924:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	43	-	-
1971-W1237	2441205.11	1971 Sep 10 1435:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1244	2441208.11	1971 Sep 13 1437:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1971-W1250	2441210.00	1971 Sep 15 1155:00	Loki Dart	-	INTA HT-7113	-	-	-	-	ELAR	-	-	-	54	-	-
1971-W1253	2441210.11	1971 Sep 15 1440:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1267	2441212.11	1971 Sep 17 1444:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1275	2441215.12	1971 Sep 20 1449:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-A81	2441217.01	1971 Sep 22 1214:59	Loki Dart	-	INTA HT-7114	-	-	-	-	ELAR	-	-	-	48	-	-
1971-A177	2441216.50	1971 Sep 22	Loki Dart	-	HASP	WRE HASP 13	-	-	-	WOO	-	-	-	30?	-	-
1971-W1286	2441217.11	1971 Sep 22 1438:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1298	2441219.00	1971 Sep 24 1200:00	Loki Dart	-	INTA HT-7115	-	-	-	-	ELAR	-	-	-	52	-	-
1971-W1302	2441219.11	1971 Sep 24 1438:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W1307	2441221.99	1971 Sep 27 1149:59	Loki Dart	-	INTA HT-7116	-	-	-	-	ELAR	-	-	-	51	-	-
1971-W1316	2441223.99	1971 Sep 29 1145:00	Loki Dart	-	INTA HT-7117	-	-	-	-	ELAR	-	-	-	52	-	-
1971-W1317	2441224.16	1971 Sep 29 1544:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1326	2441226.11	1971 Oct 1 1441:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1333	2441229.11	1971 Oct 4 1438:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-M26	2441230.99	1971 Oct 6 1150	Loki Dart	-	INTA HT-7118	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W1343	2441231.10	1971 Oct 6 1423:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1349	2441232.11	1971 Oct 7 1440:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	64	-	-
1971-W1362	2441233.14	1971 Oct 8 1517:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1370	2441238.11	1971 Oct 13 1437:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1381	2441239.10	1971 Oct 14 1430:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	57	-	-
1971-W1388	2441240.12	1971 Oct 15 1447:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1393	2441243.11	1971 Oct 18 1442:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1401	2441245.11	1971 Oct 20 1438:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1402	2441245.13	1971 Oct 20 1502:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1971-A178	2441246.50	1971 Oct 22	Loki Dart	-	HASP	WRE HASP 14	-	-	-	WOO	-	-	-	30?	-	-
1971-W1412	2441247.20	1971 Oct 22 1649:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-W1418	2441250.11	1971 Oct 25 1435:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1427	2441252.11	1971 Oct 27 1440:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1428	2441252.11	1971 Oct 27 1440:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1971-W1431	2441252.20	1971 Oct 27 1651:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1971-W1438	2441254.11	1971 Oct 29 1443:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-A92	2441255.50	1971 Nov	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	10?	-	-
1971-W1445	2441257.15	1971 Nov 1 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1450	2441258.36	1971 Nov 2 2041:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1455	2441259.16	1971 Nov 3 1546:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1459	2441259.42	1971 Nov 3 2204:59	Loki Dart	-	INTA HT-7119	-	-	-	-	ELAR	-	-	-	56	-	-
1971-W1460	2441260.08	1971 Nov 4 1349:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	62	-	-
1971-W1463	2441260.16	1971 Nov 4 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1971-M36	2441260.50	1971 Nov 5	Loki Dart	-	HASP	WRE HASP 15	-	-	-	WOO	-	-	-	60?	-	-
1971-W1474	2441264.15	1971 Nov 8 1540:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-M37	2441264.53	1971 Nov 9 0050	Loki Dart	-	HASP	WRE HASP 16	-	-	-	WOO	-	-	-	60?	-	-
1971-W1486	2441266.16	1971 Nov 10 1544:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-M38	2441266.54	1971 Nov 11 0100	Loki Dart	-	HASP	WRE HASP 17	-	-	-	WOO	-	-	-	60?	-	-
1971-W1496	2441268.24	1971 Nov 12 1748:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1971-W1500	2441271.16	1971 Nov 15 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1508	2441272.16	1971 Nov 16 1546:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1513	2441273.10	1971 Nov 17 1430:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1971-W1516	2441273.16	1971 Nov 17 1553:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-M39	2441273.50	1971 Nov 18	Loki Dart	-	HASP	WRE HASP 18	-	-	-	WOO	-	-	-	60?	-	-
1971-W1521	2441274.16	1971 Nov 18 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1531	2441275.16	1971 Nov 19 1546:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1535	2441278.16	1971 Nov 22 1556:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1546	2441280.16	1971 Nov 24 1553:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1553	2441281.17	1971 Nov 25 1602:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1558	2441282.16	1971 Nov 26 1549:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1564	2441285.16	1971 Nov 29 1553:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W1570	2441286.16	1971 Nov 30 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1579	2441287.16	1971 Dec 1 1547:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1584	2441288.16	1971 Dec 2 1546:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1589	2441289.16	1971 Dec 3 1555:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1594	2441292.16	1971 Dec 6 1549:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1971-W1598	2441293.25	1971 Dec 7 1756:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1603	2441294.16	1971 Dec 8 1554:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1971-W1607	2441294.40	1971 Dec 8 2132:00	Loki Dart	-	INTA HT-7120	-	-	-	-	ELAR	-	-	-	56	-	-
1971-W1612	2441295.31	1971 Dec 9 1929:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1971-W1614	2441296.09	1971 Dec 10 1404:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1619	2441296.15	1971 Dec 10 1538:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1622	2441296.20	1971 Dec 10 1649:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1623	2441296.27	1971 Dec 10 1823:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1626	2441299.17	1971 Dec 13 1558:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-M27	2441301.43	1971 Dec 15 2219	Loki Dart	-	INTA HT-7121	-	-	-	-	ELAR	-	-	-	60?	-	-
1971-W1637	2441301.16	1971 Dec 15 1547:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1642	2441301.53	1971 Dec 16 0040:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	59	-	-
1971-W1644	2441302.16	1971 Dec 16 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1650	2441303.15	1971 Dec 17 1540:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1971-W1656	2441306.17	1971 Dec 20 1603:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1971-W1660	2441307.17	1971 Dec 21 1557:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1663	2441308.00	1971 Dec 22 1204:59	Loki Dart	-	INTA HT-7122	-	-	-	-	ELAR	-	-	-	52	-	-
1971-W1666	2441308.16	1971 Dec 22 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1971-W1669	2441308.43	1971 Dec 22 2218:59	Loki Dart	-	INTA HT-7123	-	-	-	-	ELAR	-	-	-	56	-	-
1971-W1670	2441309.16	1971 Dec 23 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1971-W1672	2441310.16	1971 Dec 24 1547:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1971-W1676	2441314.19	1971 Dec 28 1636:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-A111	2441314.36	1971 Dec 28 2037:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	48	-	-
1971-W1681	2441315.15	1971 Dec 29 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1971-W1683	2441315.37	1971 Dec 29 2055:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1687	2441316.15	1971 Dec 30 1533:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1971-W1689	2441316.37	1971 Dec 30 2047:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1971-W1691	2441317.15	1971 Dec 31 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W11	2441321.15	1972 Jan 4 1542:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W16	2441322.16	1972 Jan 5 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W24	2441323.24	1972 Jan 6 1751:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W37	2441324.24	1972 Jan 7 1741:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-M18	2441329.43	1972 Jan 12 2218	Loki Dart	-	INTA HD-7201	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W59	2441329.46	1972 Jan 12 2300:00	Loki Dart	-	INTA HD-7202	-	-	-	-	ELAR	-	-	-	60	-	-
1972-W71	2441331.54	1972 Jan 15 0101:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W78	2441334.17	1972 Jan 17 1557:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W84	2441335.16	1972 Jan 18 1551:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W92	2441336.16	1972 Jan 19 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W100	2441336.45	1972 Jan 19 2244:59	Loki Dart	-	INTA HW-7201	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W103	2441337.15	1972 Jan 20 1542:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W108	2441338.15	1972 Jan 21 1542:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-M19	2441338.58	1972 Jan 22 0153	Loki Dart	-	INTA HD-7203	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W119	2441340.95	1972 Jan 24 1047:59	Loki Dart	-	INTA HD-7204	-	-	-	-	ELAR	-	-	-	55	-	-
1972-W123	2441341.15	1972 Jan 24 1541:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W132	2441342.98	1972 Jan 26 1134:00	Loki Dart	-	INTA HW-7202	-	-	-	-	ELAR	-	-	-	61	-	-
1972-W138	2441343.25	1972 Jan 26 1758:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1972-W148	2441345.16	1972 Jan 28 1544:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W155	2441348.16	1972 Jan 31 1553:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W163	2441349.16	1972 Feb 1 1547:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W171	2441349.98	1972 Feb 2 1134:00	Loki Dart	-	INTA HW-7203	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W174	2441350.15	1972 Feb 2 1543:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W179	2441351.16	1972 Feb 3 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W183	2441352.16	1972 Feb 4 1548:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W191	2441355.00	1972 Feb 7 1201:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W200	2441355.80	1972 Feb 8 0710:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W204	2441356.98	1972 Feb 9 1133:00	Loki Dart	-	INTA HW-7204	-	-	-	-	ELAR	-	-	-	57	-	-
1972-W216	2441357.47	1972 Feb 9 2323:00	Loki Dart	-	INTA HW-7205	-	-	-	-	ELAR	-	-	-	51	-	-
1972-W217	2441357.55	1972 Feb 10 0117:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W221	2441358.67	1972 Feb 11 0402:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W222	2441359.04	1972 Feb 11 1252:00	Loki Dart	-	INTA HW-7206	-	-	-	-	ELAR	-	-	-	57	-	-
1972-W234	2441359.78	1972 Feb 12 0648:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W242	2441362.44	1972 Feb 14 2233:59	Loki Dart	-	INTA HW-7207	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W243	2441362.75	1972 Feb 15 0555:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W246	2441363.29	1972 Feb 15 1901:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W248	2441363.98	1972 Feb 16 1130:00	Loki Dart	-	INTA HW-7208	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W254	2441364.16	1972 Feb 16 1545:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1972-W258	2441365.17	1972 Feb 17 1606:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W261	2441365.98	1972 Feb 18 1137:59	Loki Dart	-	INTA HW-7209	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W265	2441366.16	1972 Feb 18 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W271	2441370.16	1972 Feb 22 1552:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-A133	2441370.54	1972 Feb 23 0100	Loki Dart	-	HASP	WRE HASP 66	-	-	-	WOO	-	-	-	30?	-	-
1972-W275	2441370.99	1972 Feb 23 1140:00	Loki Dart	-	INTA HW-7210	-	-	-	-	ELAR	-	-	-	63	-	-
1972-W278	2441371.16	1972 Feb 23 1547:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W285	2441372.16	1972 Feb 24 1551:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W308	2441378.16	1972 Mar 1 1545:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W313	2441379.16	1972 Mar 2 1551:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W318	2441380.17	1972 Mar 3 1600:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W334	2441384.68	1972 Mar 8 0418:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W342	2441386.59	1972 Mar 10 0214:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W352	2441387.57	1972 Mar 11 0145:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W358	2441392.00	1972 Mar 15 1157:00	Loki Dart	-	INTA HD-7205	-	-	-	-	ELAR	-	-	-	60	-	-
1972-W362	2441392.15	1972 Mar 15 1533:00	Loki Dart	-	T1-5939	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W373	2441392.59	1972 Mar 16 0203:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1972-W388	2441394.35	1972 Mar 17 2026:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W399	2441397.33	1972 Mar 20 2000:00	Loki Dart	-	T1-5549	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W400	2441397.56	1972 Mar 21 0132:59	Loki Dart	-	T1-5950	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W401	2441398.81	1972 Mar 22 0732:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W402	2441398.98	1972 Mar 22 1137:59	Loki Dart	-	INTA HD-7206	-	-	-	-	ELAR	-	-	-	59	-	-
1972-W413	2441400.60	1972 Mar 24 0224:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W422	2441401.64	1972 Mar 25 0319:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W431	2441404.86	1972 Mar 28 0832:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W440	2441406.89	1972 Mar 30 0924:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W444	2441407.90	1972 Mar 31 0933:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1972-W461	2441413.00	1972 Apr 5 1155:00	Loki Dart	-	INTA HD-7207	-	-	-	-	ELAR	-	-	-	60	-	-
1972-W470	2441413.90	1972 Apr 6 0932:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W479	2441415.88	1972 Apr 8 0913:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W490	2441419.66	1972 Apr 12 0345:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W491	2441419.98	1972 Apr 12 1137:00	Loki Dart	-	INTA HD-7208	-	-	-	-	ELAR	-	-	-	61	-	-
1972-W499	2441420.72	1972 Apr 13 0512:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W507	2441422.66	1972 Apr 15 0356:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-A32	2441427.07	1972 Apr 19 1335:59	Loki Dart	-	INTA HD-7209	-	-	-	-	ELAR	-	-	-	48	-	-
1972-W529	2441427.67	1972 Apr 20 0409:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W537	2441429.64	1972 Apr 22 0317:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W547	2441432.67	1972 Apr 25 0359:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1972-A39	2441434.04	1972 Apr 26 1300:59	Loki Dart	-	INTA HD-7210	-	-	-	-	ELAR	-	-	-	39	-	-
1972-W559	2441434.68	1972 Apr 27 0424:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W585	2441441.11	1972 May 3 1444:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W582	2441441.04	1972 May 3 1300:59	Loki Dart	-	INTA HD-7211	-	-	-	-	ELAR	-	-	-	59	-	-
1972-W606	2441443.33	1972 May 5 1955:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W614	2441446.12	1972 May 8 1452:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W622	2441447.12	1972 May 9 1454:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W596	2441448.05	1972 May 10 1308:00	Loki Dart	-	INTA HW-7211	-	-	-	-	ELAR	-	-	-	56	-	-
1972-W627	2441448.11	1972 May 10 1445:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1972-W638	2441450.11	1972 May 12 1442:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W646	2441453.11	1972 May 15 1440:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W654	2441455.04	1972 May 17 1251:00	Loki Dart	-	INTA HW-7212	-	-	-	-	ELAR	-	-	-	58	-	-
1972-W661	2441455.20	1972 May 17 1654:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W670	2441456.26	1972 May 18 1810:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W674	2441457.12	1972 May 19 1451:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-M20	2441462.00	1972 May 24 1206	Loki Dart	-	INTA HT-7201	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W687	2441462.11	1972 May 24 1435:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W694	2441463.16	1972 May 25 1552:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W699	2441464.11	1972 May 26 1443:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1972-W705	2441467.20	1972 May 29 1647:59	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W720	2441469.11	1972 May 31 1442:00	Judi-Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W710	2441468.50	1972 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W711	2441468.50	1972 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W712	2441468.50	1972 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W713	2441468.50	1972 Jun	Judi-Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W863	2441504.12	1972 Jul 5 1457:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W911	2441513.19	1972 Jul 14 1640:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W939	2441520.11	1972 Jul 21 1445:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W962	2441525.11	1972 Jul 26 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W981	2441529.50	1972 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W990	2441532.11	1972 Aug 2 1445:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1016	2441539.11	1972 Aug 9 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1025	2441541.11	1972 Aug 11 1441:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-A86	2441544.28	1972 Aug 14 1843:00	Loki Dart	-	T 1-6097	-	-	-	-	WI	-	-	-	35	-	-
1972-W1040	2441544.25	1972 Aug 14 1801:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1048	2441546.11	1972 Aug 16 1445:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1050	2441546.18	1972 Aug 16 1620:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	62	-	-
1972-W1058	2441548.11	1972 Aug 18 1445:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1066	2441551.11	1972 Aug 21 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-A134	2441551.54	1972 Aug 22 0100	Loki Dart	-	HASP	WRE HASP 88	-	-	-	WOO	-	-	-	30?	-	-
1972-W1073	2441553.14	1972 Aug 23 1518:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1082	2441555.11	1972 Aug 25 1442:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1091	2441558.12	1972 Aug 28 1448:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1104	2441560.11	1972 Aug 30 1444:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W1106	2441560.14	1972 Aug 30 1524:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	65	-	-
1972-A94	2441560.50	1972 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	10?	-	-
1972-W1110	2441560.50	1972 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W1128	2441567.61	1972 Sep 7 0233:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1972-W1143	2441572.58	1972 Sep 12 0148:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1154	2441574.59	1972 Sep 14 0203:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-M21	2441576.02	1972 Sep 15 1235	Loki Dart	-	INTA HW-7213	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W1161	2441576.58	1972 Sep 16 0158:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1972-W1172	2441579.83	1972 Sep 19 0802:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-M22	2441581.00	1972 Sep 20 1204	Loki Dart	-	INTA HW-7214	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W1176	2441581.21	1972 Sep 20 1704:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	57	-	-
1972-W1185	2441583.63	1972 Sep 23 0312:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1190	2441586.17	1972 Sep 25 1607:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-M23	2441587.92	1972 Sep 27 1006	Loki Dart	-	INTA HW-7215	-	-	-	-	ELAR	-	-	-	60?	-	-
1972-W1199	2441588.08	1972 Sep 27 1400:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1972-W1204	2441588.21	1972 Sep 27 1657:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1209	2441590.11	1972 Sep 29 1438:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1217	2441593.12	1972 Oct 2 1452:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1235	2441595.64	1972 Oct 5 0323:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1243	2441597.59	1972 Oct 7 0206:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1258	2441602.30	1972 Oct 11 1904:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1265	2441604.20	1972 Oct 13 1645:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1268	2441607.11	1972 Oct 16 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1277	2441609.12	1972 Oct 18 1452:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1291	2441611.12	1972 Oct 20 1452:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1296	2441614.13	1972 Oct 23 1501:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1302	2441616.14	1972 Oct 25 1517:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1318	2441618.12	1972 Oct 27 1456:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1331	2441621.66	1972 Oct 31 0347:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1330	2441621.50	1972 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1347	2441623.74	1972 Nov 2 0543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W1352	2441625.16	1972 Nov 3 1555:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1972-W1360	2441628.16	1972 Nov 6 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1972-W1365	2441629.16	1972 Nov 7 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1370	2441630.15	1972 Nov 8 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W1381	2441631.16	1972 Nov 9 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1972-W1389	2441632.15	1972 Nov 10 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1402	2441636.16	1972 Nov 14 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1405	2441637.15	1972 Nov 15 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1412	2441638.15	1972 Nov 16 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1419	2441639.15	1972 Nov 17 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1428	2441642.16	1972 Nov 20 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1435	2441643.15	1972 Nov 21 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1440	2441644.15	1972 Nov 22 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1446	2441645.16	1972 Nov 23 1553:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1447	2441646.16	1972 Nov 24 1551:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1456	2441649.63	1972 Nov 28 0304:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1457	2441650.55	1972 Nov 29 0118:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1972-W1458	2441651.02	1972 Nov 29 1227:59	Loki Dart	-	INTA HW-7216	-	-	-	-	ELAR	-	-	-	53	-	-
1972-W1465	2441651.38	1972 Nov 29 2104:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1466	2441651.50	1972 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1972-W1473	2441653.61	1972 Dec 2 0243:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1480	2441656.53	1972 Dec 5 0043:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1972-W1485	2441657.58	1972 Dec 6 0200:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1486	2441658.01	1972 Dec 6 1217:00	Loki Dart	-	INTA HW-7217	-	-	-	-	ELAR	-	-	-	57	-	-
1972-W1493	2441658.62	1972 Dec 7 0255:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1494	2441658.82	1972 Dec 7 0737:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1496	2441658.86	1972 Dec 7 0834:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1499	2441659.62	1972 Dec 8 0251:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1505	2441660.60	1972 Dec 9 0229:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1972-W1506	2441662.54	1972 Dec 11 0057:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1972-W1507	2441662.59	1972 Dec 11 0210:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1508	2441662.61	1972 Dec 11 0245:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1517	2441663.60	1972 Dec 12 0230:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1522	2441665.16	1972 Dec 13 1547:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1527	2441666.16	1972 Dec 14 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1972-W1530	2441667.16	1972 Dec 15 1547:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1972-W1538	2441670.17	1972 Dec 18 1559:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1972-W1545	2441671.16	1972 Dec 19 1553:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1552	2441672.18	1972 Dec 20 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1557	2441673.15	1972 Dec 21 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1559	2441674.16	1972 Dec 22 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1564	2441679.15	1972 Dec 27 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1972-W1570	2441680.16	1972 Dec 28 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1972-W1572	2441681.16	1972 Dec 29 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1973-W01	2441682.50	1973 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W02	2441682.50	1973 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W03	2441682.50	1973 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W04	2441682.50	1973 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W05	2441685.16	1973 Jan 2 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W12	2441686.20	1973 Jan 3 1648:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W19	2441687.16	1973 Jan 4 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W24	2441688.15	1973 Jan 5 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W32	2441689.24	1973 Jan 6 1752:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W33	2441690.25	1973 Jan 7 1757:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W36	2441691.19	1973 Jan 8 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W46	2441692.31	1973 Jan 9 1932:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-M38	2441693.03	1973 Jan 10 1245	Loki Dart	-	INTA HW-7301	-	-	-	-	ELAR	-	-	-	60?	-	-
1973-W51	2441693.20	1973 Jan 10 1644:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W60	2441694.15	1973 Jan 11 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W70	2441695.16	1973 Jan 12 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W84	2441698.29	1973 Jan 15 1855:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W87	2441699.15	1973 Jan 16 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1973-W98	2441700.21	1973 Jan 17 1703:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W108	2441702.16	1973 Jan 19 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W122	2441705.36	1973 Jan 22 2038:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W125	2441706.15	1973 Jan 23 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W132	2441707.15	1973 Jan 24 1543:00	Loki Dart	-	-	Chaff,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W140	2441708.66	1973 Jan 26 0348:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W148	2441709.66	1973 Jan 27 0349:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W167	2441714.60	1973 Feb 1 0224:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W171	2441715.55	1973 Feb 2 0118:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1973-W180	2441716.55	1973 Feb 3 0118:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1973-W188	2441719.54	1973 Feb 6 0051:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W193	2441720.53	1973 Feb 7 0045:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W194	2441721.00	1973 Feb 7 1207:00	Loki Dart	-	INTA HW-7302	-	-	-	-	ELAR	-	-	-	55	-	-
1973-W204	2441721.57	1973 Feb 8 0142:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1973-W210	2441722.66	1973 Feb 9 0356:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W214	2441723.25	1973 Feb 9 1803:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W226	2441726.36	1973 Feb 12 2045:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W230	2441727.16	1973 Feb 13 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W239	2441728.18	1973 Feb 14 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W247	2441729.18	1973 Feb 15 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W253	2441730.16	1973 Feb 16 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W257	2441733.16	1973 Feb 19 1556:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W264	2441734.67	1973 Feb 21 0410:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W273	2441735.55	1973 Feb 22 0118:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1973-W277	2441736.63	1973 Feb 23 0308:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1973-W286	2441737.66	1973 Feb 24 0348:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W304	2441742.67	1973 Mar 1 0407:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W306	2441743.25	1973 Mar 1 1757:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W313	2441744.16	1973 Mar 2 1547:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W320	2441747.16	1973 Mar 5 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W326	2441748.18	1973 Mar 6 1617:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W331	2441749.05	1973 Mar 7 1304:59	Loki Dart	-	INTA HW-7303	-	-	-	-	ELAR	-	-	-	57	-	-
1973-W335	2441749.15	1973 Mar 7 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W344	2441750.19	1973 Mar 8 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W347	2441751.15	1973 Mar 9 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W356	2441754.16	1973 Mar 12 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W363	2441755.18	1973 Mar 13 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W366	2441756.15	1973 Mar 14 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W377	2441757.19	1973 Mar 15 1634:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W381	2441758.15	1973 Mar 16 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W388	2441761.15	1973 Mar 19 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W397	2441762.19	1973 Mar 20 1630:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W403	2441763.16	1973 Mar 21 1553:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W409	2441764.19	1973 Mar 22 1634:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W416	2441765.15	1973 Mar 23 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W426	2441768.15	1973 Mar 26 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W434	2441769.18	1973 Mar 27 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W442	2441770.16	1973 Mar 28 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W450	2441771.19	1973 Mar 29 1640:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W455	2441772.24	1973 Mar 30 1742:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W473	2441776.19	1973 Apr 3 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1973-W476	2441777.15	1973 Apr 4 1537:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W486	2441779.15	1973 Apr 6 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1973-W500	2441783.19	1973 Apr 10 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W503	2441784.01	1973 Apr 11 1220:00	Loki Dart	-	INTA HW-7304	-	-	-	-	ELAR	-	-	-	60	-	-
1973-W506	2441784.15	1973 Apr 11 1536:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W519	2441786.15	1973 Apr 13 1535:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W531	2441790.19	1973 Apr 17 1634:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W537	2441791.15	1973 Apr 18 1535:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W559	2441797.19	1973 Apr 24 1640:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W565	2441798.15	1973 Apr 25 1534:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	52	-	-
1973-W575	2441800.17	1973 Apr 27 1609:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1973-W582	2441803.11	1973 Apr 30 1436:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W590	2441805.11	1973 May 2 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W604	2441807.18	1973 May 4 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W617	2441811.22	1973 May 8 1721:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W619	2441812.02	1973 May 9 1233:00	Loki Dart	-	INTA HW-7305	-	-	-	-	ELAR	-	-	-	60	-	-
1973-W621	2441812.13	1973 May 9 1507:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W634	2441814.18	1973 May 11 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W641	2441817.12	1973 May 14 1449:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W658	2441819.18	1973 May 16 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W687	2441826.17	1973 May 23 1609:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W696	2441828.18	1973 May 25 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1973-W702	2441831.12	1973 May 28 1457:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W714	2441833.18	1973 May 30 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W740	2441840.01	1973 Jun 6 1214:59	Loki Dart	-	INTA HW-7306	-	-	-	-	ELAR	-	-	-	61	-	-
1973-W746	2441840.18	1973 Jun 6 1621:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W781	2441847.21	1973 Jun 13 1655:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W812	2441854.19	1973 Jun 20 1627:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1973-W836	2441861.19	1973 Jun 27 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W845	2441863.50	1973 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W856	2441868.18	1973 Jul 4 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-M39	2441875.01	1973 Jul 11 1220	Loki Dart	-	INTA HW-7307	-	-	-	-	ELAR	-	-	-	60?	-	-
1973-W874	2441875.21	1973 Jul 11 1658:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W913	2441882.12	1973 Jul 18 1447:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W933	2441889.19	1973 Jul 25 1627:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W959	2441894.50	1973 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W971	2441896.12	1973 Aug 1 1459:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W974	2441897.20	1973 Aug 2 1651:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W992	2441903.13	1973 Aug 8 1507:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1000	2441904.11	1973 Aug 9 1437:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W1013	2441908.18	1973 Aug 13 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1027	2441910.12	1973 Aug 15 1451:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1035	2441911.18	1973 Aug 16 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1048	2441915.12	1973 Aug 20 1447:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1057	2441917.12	1973 Aug 22 1448:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1081	2441922.11	1973 Aug 27 1444:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1099	2441924.29	1973 Aug 29 1854:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1105	2441925.18	1973 Aug 30 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W1150	2441937.18	1973 Sep 11 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1157	2441938.14	1973 Sep 12 1518:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1165	2441939.18	1973 Sep 13 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1973-W1238	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1239	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1240	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1241	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1242	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1243	2441955.50	1973 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1359	2441986.50	1973 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1360	2441986.50	1973 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1361	2441986.50	1973 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1362	2441986.50	1973 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1973-W1379	2441989.18	1973 Nov 2 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-W1393	2441994.18	1973 Nov 7 1620:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-A67	2441995.16	1973 Nov 8 1546:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	41	-	-
1973-W1403	2441996.18	1973 Nov 9 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1416	2442000.15	1973 Nov 13 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-M40	2442001.01	1973 Nov 14 1212	Loki Dart	-	INTA HW-7308	-	-	-	-	ELAR	-	-	-	60?	-	-
1973-W1423	2442001.18	1973 Nov 14 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1429	2442002.15	1973 Nov 15 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	55	-	-
1973-W1435	2442003.18	1973 Nov 16 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1446	2442006.48	1973 Nov 19 2326:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1450	2442007.48	1973 Nov 20 2330:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1459	2442008.51	1973 Nov 22 0015:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1465	2442013.24	1973 Nov 26 1738:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W1473	2442015.16	1973 Nov 28 1546:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1480	2442016.16	1973 Nov 29 1548:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1489	2442017.18	1973 Nov 30 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1495	2442020.16	1973 Dec 3 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1501	2442021.15	1973 Dec 4 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W1504	2442022.18	1973 Dec 5 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1512	2442023.16	1973 Dec 6 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1521	2442024.18	1973 Dec 7 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1529	2442027.16	1973 Dec 10 1546:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1537	2442028.24	1973 Dec 11 1742:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1973-M41	2442029.03	1973 Dec 12 1247	Loki Dart	-	INTA HW-7309	-	-	-	-	ELAR	-	-	-	60?	-	-
1973-W1542	2442029.18	1973 Dec 12 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W1550	2442030.16	1973 Dec 13 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1556	2442031.18	1973 Dec 14 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1973-W1562	2442034.16	1973 Dec 17 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1567	2442035.16	1973 Dec 18 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1572	2442036.18	1973 Dec 19 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W1577	2442037.15	1973 Dec 20 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1581	2442038.18	1973 Dec 21 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1973-W1594	2442044.15	1973 Dec 27 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1973-W1596	2442044.30	1973 Dec 27 1918:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1973-W1597	2442045.18	1973 Dec 28 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W01	2442047.50	1974 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W02	2442047.50	1974 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W09	2442050.24	1974 Jan 2 1741:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W14	2442051.16	1974 Jan 3 1556:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W18	2442052.16	1974 Jan 4 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W26	2442055.13	1974 Jan 7 1503:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-M30	2442057.01	1974 Jan 9 1215	Loki Dart	-	INTA HW-7401	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W36	2442057.24	1974 Jan 9 1743:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W40	2442058.16	1974 Jan 10 1553:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-M31	2442058.98	1974 Jan 11 1138	Loki Dart	-	INTA HW-7402	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W49	2442059.15	1974 Jan 11 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-M32	2442061.98	1974 Jan 14 1130	Loki Dart	-	INTA HW-7403	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W62	2442063.15	1974 Jan 15 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1974-M33	2442063.98	1974 Jan 16 1130	Loki Dart	-	INTA HW-7404	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W68	2442064.24	1974 Jan 16 1741:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W73	2442065.16	1974 Jan 17 1555:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-M34	2442066.00	1974 Jan 18 1203	Loki Dart	-	INTA HW-7405	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W82	2442066.52	1974 Jan 19 0030:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-M35	2442067.04	1974 Jan 19 1256	Loki Dart	-	INTA HW-7406	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-M36	2442069.04	1974 Jan 21 1258	Loki Dart	-	INTA HW-7407	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W92	2442069.54	1974 Jan 22 0054:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W97	2442070.51	1974 Jan 23 0019:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-M37	2442071.04	1974 Jan 23 1301	Loki Dart	-	INTA HW-7408	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W110	2442072.16	1974 Jan 24 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-M38	2442073.04	1974 Jan 25 1259	Loki Dart	-	INTA HD-7401	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	60?	-	-
1974-W115	2442073.24	1974 Jan 25 1743:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W122	2442076.16	1974 Jan 28 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W129	2442077.15	1974 Jan 29 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	70	-	-
1974-W136	2442078.15	1974 Jan 30 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W150	2442079.15	1974 Jan 31 1538:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1974-W144	2442078.50	1974 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W163	2442083.17	1974 Feb 4 1604:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W167	2442084.24	1974 Feb 5 1738:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W173	2442085.17	1974 Feb 6 1609:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W176	2442086.16	1974 Feb 7 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W181	2442087.15	1974 Feb 8 1538:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W184	2442090.16	1974 Feb 11 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-
1974-W192	2442091.24	1974 Feb 12 1743:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W201	2442092.54	1974 Feb 14 0059:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W205	2442093.50	1974 Feb 15 0000:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W218	2442097.53	1974 Feb 19 0037:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W232	2442099.52	1974 Feb 21 0033:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W241	2442101.60	1974 Feb 23 0217:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W249	2442104.53	1974 Feb 26 0049:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W255	2442105.54	1974 Feb 27 0057:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W270	2442106.54	1974 Feb 28 0102:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W265	2442106.50	1974 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W274	2442107.55	1974 Mar 1 0108:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W281	2442108.55	1974 Mar 2 0114:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W289	2442111.53	1974 Mar 5 0047:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W291	2442112.24	1974 Mar 5 1746:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W298	2442113.26	1974 Mar 6 1820:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W302	2442114.16	1974 Mar 7 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W310	2442115.24	1974 Mar 8 1743:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W317	2442118.17	1974 Mar 11 1604:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W321	2442119.16	1974 Mar 12 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1974-W327	2442120.18	1974 Mar 13 1617:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W335	2442121.18	1974 Mar 14 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W351	2442125.51	1974 Mar 19 0017:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W355	2442126.12	1974 Mar 19 1500	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	66	-	-
1974-W357	2442126.15	1974 Mar 19 1540	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	56	-	-
1974-W359	2442126.17	1974 Mar 19 1600	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	67	-	-
1974-W360	2442126.17	1974 Mar 19 1600	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	62	-	-
1974-W363	2442126.25	1974 Mar 19 1800	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	64	-	-
1974-W365	2442126.27	1974 Mar 19 1831	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	62	-	-
1974-W367	2442126.29	1974 Mar 19 1900	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	66	-	-
1974-W368	2442126.29	1974 Mar 19 1900	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	66	-	-
1974-W373	2442126.38	1974 Mar 19 2100	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	62	-	-
1974-W374	2442126.40	1974 Mar 19 2130	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	60	-	-
1974-W375	2442126.42	1974 Mar 19 2200	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	64	-	-
1974-W377	2442126.43	1974 Mar 19 2218	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	62	-	-
1974-W380	2442126.50	1974 Mar 20 0000	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	62	-	-
1974-W383	2442126.52	1974 Mar 20 0030	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	62	-	-
1974-W386	2442126.54	1974 Mar 20 0100	Loki Dart	-	PWN-8B	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	62	-	-
1974-W387	2442126.54	1974 Mar 20 0100	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	62	-	-
1974-W391	2442126.62	1974 Mar 20 0300	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	64	-	-
1974-W392	2442126.65	1974 Mar 20 0330	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	53	-	-
1974-W393	2442126.67	1974 Mar 20 0400	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	64	-	-
1974-W397	2442126.75	1974 Mar 20 0600	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	62	-	-
1974-W399	2442126.77	1974 Mar 20 0630	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	63	-	-
1974-W400	2442126.79	1974 Mar 20 0700	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	61	-	-
1974-W403	2442126.83	1974 Mar 20 0748	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	64	-	-
1974-W405	2442126.88	1974 Mar 20 0900	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	65	-	-
1974-W408	2442126.90	1974 Mar 20 0931	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CELPA	-	-	-	62	-	-
1974-W410	2442126.92	1974 Mar 20 1000	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	65	-	-
1974-W412	2442126.93	1974 Mar 20 1015	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	55	-	-
1974-W415	2442127.00	1974 Mar 20 1200	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	FC	-	-	-	62	-	-
1974-W419	2442127.05	1974 Mar 20 1315	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	SHER	-	-	-	67	-	-
1974-W420	2442127.06	1974 Mar 20 1321	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	66	-	-
1974-W425	2442127.17	1974 Mar 20 1600	Loki Dart	-	-	DIURNAL PWN-8B	-	-	-	CLBI	-	-	-	60	-	-
1974-W445	2442132.13	1974 Mar 25 1507:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W456	2442134.50	1974 Mar 28 0000:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W461	2442135.54	1974 Mar 29 0054:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W467	2442136.57	1974 Mar 30 0136:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W474	2442139.53	1974 Apr 2 0049:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W493	2442143.57	1974 Apr 6 0136:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W496	2442146.57	1974 Apr 9 0134:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W504	2442148.26	1974 Apr 10 1809:00	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W535	2442155.58	1974 Apr 18 0149:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W545	2442157.55	1974 Apr 20 0107:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W587	2442167.50	1974 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W588	2442167.50	1974 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W589	2442167.50	1974 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W590	2442167.50	1974 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W721	2442198.50	1974 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W722	2442198.50	1974 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W723	2442198.50	1974 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W724	2442198.50	1974 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W807	2442218.17	1974 Jun 19 1609:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W828	2442225.17	1974 Jun 26 1559:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W851	2442228.50	1974 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W852	2442228.50	1974 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W853	2442228.50	1974 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W854	2442228.50	1974 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W855	2442228.50	1974 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W977	2442259.50	1974 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W978	2442259.50	1974 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W979	2442259.50	1974 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W997	2442262.11	1974 Aug 2 1441:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1019	2442267.21	1974 Aug 7 1706:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1028	2442269.18	1974 Aug 9 1621:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W1035	2442272.19	1974 Aug 12 1638:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1043	2442274.11	1974 Aug 14 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1052	2442276.12	1974 Aug 16 1457:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1061	2442279.20	1974 Aug 19 1642:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1072	2442281.14	1974 Aug 21 1522:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1974-W1085	2442283.20	1974 Aug 23 1641:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1091	2442286.20	1974 Aug 26 1646:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1099	2442288.20	1974 Aug 28 1653:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W1113	2442290.50	1974 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1126	2442295.14	1974 Sep 4 1526:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1140	2442297.11	1974 Sep 6 1442:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1148	2442300.11	1974 Sep 9 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1159	2442302.14	1974 Sep 11 1521:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1174	2442304.11	1974 Sep 13 1437:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1181	2442307.11	1974 Sep 16 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1195	2442309.13	1974 Sep 18 1506:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1209	2442311.19	1974 Sep 20 1635:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1214	2442314.11	1974 Sep 23 1445:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1228	2442316.14	1974 Sep 25 1519:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1237	2442318.11	1974 Sep 27 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1253	2442321.17	1974 Sep 30 1611:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1241	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1242	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1243	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1244	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1245	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1246	2442320.50	1974 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1262	2442323.11	1974 Oct 2 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1276	2442325.11	1974 Oct 4 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W1291	2442330.11	1974 Oct 9 1442:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1321	2442337.13	1974 Oct 16 1509:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1334	2442339.24	1974 Oct 18 1742:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1342	2442342.17	1974 Oct 21 1607:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W1364	2442349.19	1974 Oct 28 1630:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1374	2442351.18	1974 Oct 30 1618:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1974-W1378	2442351.50	1974 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1387	2442353.16	1974 Nov 1 1555:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1393	2442356.15	1974 Nov 4 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1974-W1398	2442357.18	1974 Nov 5 1621:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1404	2442358.18	1974 Nov 6 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1410	2442359.16	1974 Nov 7 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1416	2442360.24	1974 Nov 8 1740:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1419	2442363.15	1974 Nov 11 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1974-W1424	2442364.15	1974 Nov 12 1537:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1974-W1428	2442365.17	1974 Nov 13 1610:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	51	-	-
1974-W1434	2442366.17	1974 Nov 14 1601:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1440	2442367.18	1974 Nov 15 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1446	2442370.17	1974 Nov 18 1558:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W1452	2442371.15	1974 Nov 19 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1455	2442372.18	1974 Nov 20 1622:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1974-W1461	2442373.16	1974 Nov 21 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1464	2442374.15	1974 Nov 22 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1473	2442377.19	1974 Nov 25 1626:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1974-W1478	2442378.15	1974 Nov 26 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1484	2442379.20	1974 Nov 27 1646:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1490	2442380.18	1974 Nov 28 1618:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1974-W1491	2442381.16	1974 Nov 29 1551:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1974-W1493	2442381.50	1974 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1494	2442381.50	1974 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1495	2442381.50	1974 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1974-W1500	2442384.16	1974 Dec 2 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1506	2442385.17	1974 Dec 3 1610:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1974-W1518	2442387.15	1974 Dec 5 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1528	2442388.24	1974 Dec 6 1741:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1974-W1537	2442391.67	1974 Dec 10 0358:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W1558	2442394.46	1974 Dec 12 2300:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1561	2442395.18	1974 Dec 13 1621:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1974-W1568	2442398.16	1974 Dec 16 1545:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1974-W1577	2442399.16	1974 Dec 17 1546:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W1583	2442400.18	1974 Dec 18 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1590	2442401.16	1974 Dec 19 1549:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1595	2442402.19	1974 Dec 20 1630:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1603	2442405.18	1974 Dec 23 1623:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W1609	2442406.16	1974 Dec 24 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W1617	2442412.15	1974 Dec 30 1541:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1974-W1624	2442413.17	1974 Dec 31 1607:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W01	2442412.50	1975 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W02	2442412.50	1975 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W10	2442416.16	1975 Jan 3 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W16	2442419.15	1975 Jan 6 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W19	2442420.16	1975 Jan 7 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W25	2442421.16	1975 Jan 8 1548:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W28	2442422.15	1975 Jan 9 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1975-W33	2442423.19	1975 Jan 10 1635:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W39	2442426.24	1975 Jan 13 1745:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W44	2442427.18	1975 Jan 14 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W51	2442428.17	1975 Jan 15 1607:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1975-W57	2442429.18	1975 Jan 16 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W63	2442430.16	1975 Jan 17 1545:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W73	2442433.18	1975 Jan 20 1615:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W77	2442434.16	1975 Jan 21 1548:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W84	2442435.18	1975 Jan 22 1618:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1975-W90	2442436.15	1975 Jan 23 1542:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W96	2442437.16	1975 Jan 24 1544:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W106	2442441.52	1975 Jan 29 0035:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W113	2442442.69	1975 Jan 30 0438:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W135	2442448.68	1975 Feb 5 0423:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W145	2442450.53	1975 Feb 7 0046:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W164	2442455.54	1975 Feb 12 0051:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W170	2442456.53	1975 Feb 13 0047:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W183	2442458.53	1975 Feb 15 0037:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W185	2442461.53	1975 Feb 18 0047:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W190	2442462.53	1975 Feb 19 0047:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W204	2442464.54	1975 Feb 21 0052:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W214	2442465.54	1975 Feb 22 0103:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W219	2442468.53	1975 Feb 25 0046:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W223	2442469.28	1975 Feb 25 1847:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W229	2442470.21	1975 Feb 26 1704:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W236	2442471.20	1975 Feb 27 1641:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W239	2442471.50	1975 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W240	2442471.50	1975 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W251	2442472.50	1975 Mar 1 0000:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W266	2442476.61	1975 Mar 5 0236:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W275	2442477.54	1975 Mar 6 0058:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W282	2442478.54	1975 Mar 7 0102:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W290	2442479.54	1975 Mar 8 0102:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W297	2442482.55	1975 Mar 11 0109:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W301	2442483.57	1975 Mar 12 0144:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1975-W312	2442485.23	1975 Mar 13 1726:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W316	2442486.21	1975 Mar 14 1708:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1975-W323	2442489.15	1975 Mar 17 1538:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W330	2442490.15	1975 Mar 18 1540:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W339	2442491.23	1975 Mar 19 1735:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W344	2442492.21	1975 Mar 20 1657:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W348	2442493.19	1975 Mar 21 1638:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W356	2442496.23	1975 Mar 24 1724:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W362	2442497.21	1975 Mar 25 1706:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W369	2442498.20	1975 Mar 26 1647:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W376	2442499.26	1975 Mar 27 1810:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W383	2442502.50	1975 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W384	2442502.50	1975 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W409	2442506.95	1975 Apr 4 1049:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W414	2442509.87	1975 Apr 7 0857:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W422	2442510.87	1975 Apr 8 0855:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W427	2442511.87	1975 Apr 9 0847:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W435	2442512.86	1975 Apr 10 0842:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W436	2442512.94	1975 Apr 10 1027:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W440	2442513.88	1975 Apr 11 0911:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W452	2442518.91	1975 Apr 16 0946:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W461	2442520.90	1975 Apr 18 0935:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W482	2442526.62	1975 Apr 24 0254:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1975-W501	2442532.50	1975 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W514	2442535.21	1975 May 2 1658:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W522	2442538.11	1975 May 5 1440:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W532	2442540.19	1975 May 7 1632:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W543	2442542.19	1975 May 9 1627:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W548	2442545.12	1975 May 12 1446:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W561	2442547.14	1975 May 14 1520:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1975-W592	2442554.14	1975 May 21 1520:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W601	2442556.11	1975 May 23 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W611	2442559.11	1975 May 26 1441:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1975-W621	2442561.14	1975 May 28 1517:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W636	2442563.19	1975 May 30 1632:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W640	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W641	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W642	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W643	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W644	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W645	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W646	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W647	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W648	2442563.50	1975 Jun	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W663	2442568.13	1975 Jun 4 1508:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W693	2442575.14	1975 Jun 11 1518:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W709	2442582.14	1975 Jun 18 1520:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W749	2442593.50	1975 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W762	2442596.13	1975 Jul 2 1511:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W779	2442603.19	1975 Jul 9 1629:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W807	2442610.26	1975 Jul 16 1815:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W825	2442617.23	1975 Jul 23 1730:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W842	2442622.26	1975 Jul 28 1815:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W855	2442624.23	1975 Jul 30 1734:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W867	2442626.12	1975 Aug 1 1448:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W888	2442631.24	1975 Aug 6 1742:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W916	2442638.20	1975 Aug 13 1646:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W931	2442640.19	1975 Aug 15 1631:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W939	2442643.24	1975 Aug 18 1740:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W945	2442645.21	1975 Aug 20 1700:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W952	2442647.11	1975 Aug 22 1443:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W959	2442650.20	1975 Aug 25 1649:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W968	2442652.19	1975 Aug 27 1638:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W976	2442654.18	1975 Aug 29 1619:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W991	2442659.19	1975 Sep 3 1631:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1001	2442661.19	1975 Sep 5 1640:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1005	2442664.19	1975 Sep 8 1626:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	52	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W1015	2442666.19	1975 Sep 10 1635:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1020	2442668.20	1975 Sep 12 1652:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1026	2442671.18	1975 Sep 15 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1042	2442673.21	1975 Sep 17 1656:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1047	2442675.25	1975 Sep 19 1757:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W1055	2442678.19	1975 Sep 22 1630:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1065	2442680.24	1975 Sep 24 1741:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1082	2442682.20	1975 Sep 26 1645:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1975-W1095	2442685.50	1975 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W1096	2442685.50	1975 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W1097	2442685.50	1975 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1975-W1102	2442687.24	1975 Oct 1 1745:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W1109	2442689.11	1975 Oct 3 1438:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1121	2442692.25	1975 Oct 6 1804:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1130	2442694.19	1975 Oct 8 1627:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1139	2442696.16	1975 Oct 10 1552:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1154	2442701.19	1975 Oct 15 1635:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1169	2442706.20	1975 Oct 20 1651:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1183	2442708.13	1975 Oct 22 1512:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	53	-	-
1975-W1196	2442710.19	1975 Oct 24 1634:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1202	2442713.19	1975 Oct 27 1630:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1227	2442720.19	1975 Nov 3 1634:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	54	-	-
1975-W1232	2442721.17	1975 Nov 4 1559:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1975-W1238	2442722.20	1975 Nov 5 1646:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W1245	2442723.18	1975 Nov 6 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1975-W1252	2442724.30	1975 Nov 7 1907:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1975-W1257	2442727.20	1975 Nov 10 1654:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W1263	2442728.18	1975 Nov 11 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1269	2442729.30	1975 Nov 12 1904:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1274	2442730.20	1975 Nov 13 1641:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1278	2442731.15	1975 Nov 14 1543:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1975-W1287	2442735.18	1975 Nov 18 1624:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W1290	2442736.17	1975 Nov 19 1601:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1300	2442737.18	1975 Nov 20 1620:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W1303	2442738.17	1975 Nov 21 1606:00	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1306	2442741.16	1975 Nov 24 1549:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1309	2442742.18	1975 Nov 25 1618:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1314	2442743.18	1975 Nov 26 1617:00	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1320	2442744.29	1975 Nov 27 1859:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1321	2442745.19	1975 Nov 28 1640:00	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1322	2442748.18	1975 Dec 1 1617:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1336	2442749.30	1975 Dec 2 1904:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1349	2442751.30	1975 Dec 4 1913:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1357	2442755.24	1975 Dec 8 1747:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1359	2442756.18	1975 Dec 9 1614:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1368	2442757.28	1975 Dec 10 1836:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1371	2442758.19	1975 Dec 11 1626:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1378	2442759.29	1975 Dec 12 1857:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1975-W1397	2442764.29	1975 Dec 17 1856:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	57	-	-
1975-W1403	2442765.24	1975 Dec 18 1742:00	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1410	2442766.31	1975 Dec 19 1919:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1975-W1418	2442769.29	1975 Dec 22 1856:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1975-W1419	2442770.19	1975 Dec 23 1638:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1424	2442771.32	1975 Dec 24 1938:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1975-W1431	2442777.27	1975 Dec 30 1834:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1975-W1432	2442778.21	1975 Dec 31 1656:59	Loki Dart	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1976-W15	2442784.16	1976 Jan 6 1545:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W19	2442785.17	1976 Jan 7 1559:59	Loki Dart	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	59	-	-
1976-W29	2442786.17	1976 Jan 8 1557:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W33	2442787.27	1976 Jan 9 1830:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1976-W37	2442790.17	1976 Jan 12 1607:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1976-W47	2442791.19	1976 Jan 13 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W53	2442792.19	1976 Jan 14 1629:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1976-W65	2442793.17	1976 Jan 15 1601:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1976-W75	2442794.29	1976 Jan 16 1901:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W89	2442797.63	1976 Jan 20 0308:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W90	2442798.20	1976 Jan 20 1652:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1976-W105	2442800.17	1976 Jan 22 1610:59	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W115	2442801.19	1976 Jan 23 1626:59	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W142	2442806.58	1976 Jan 29 0151:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W146	2442807.56	1976 Jan 30 0125:59	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W155	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W156	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W157	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W158	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W159	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W160	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W161	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W162	2442808.50	1976 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W186	2442813.57	1976 Feb 5 0136:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W190	2442814.30	1976 Feb 5 1917:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1976-Y54	2442815.15	1976 Feb 6 1533:59	Loki Dart	-	-	Met Sphere	-	-	-	FC	-	-	-	101	-	-
1976-W195	2442815.17	1976 Feb 6 1608:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1976-W202	2442818.18	1976 Feb 9 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1976-W214	2442820.18	1976 Feb 11 1624:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	67	-	-
1976-W223	2442821.16	1976 Feb 12 1555:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	67	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W233	2442822.18	1976 Feb 13 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1976-W241	2442825.17	1976 Feb 16 1604:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W256	2442827.19	1976 Feb 18 1630:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W318	2442837.50	1976 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W319	2442837.50	1976 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W320	2442837.50	1976 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W321	2442837.50	1976 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W322	2442837.50	1976 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W452	2442860.55	1976 Mar 23 0112:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W465	2442862.55	1976 Mar 25 0113:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W470	2442863.55	1976 Mar 26 0114:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W480	2442864.56	1976 Mar 27 0126:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W490	2442867.76	1976 Mar 30 0617:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W492	2442868.56	1976 Mar 31 0125:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W508	2442871.19	1976 Apr 2 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W526	2442876.20	1976 Apr 7 1645:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W537	2442878.20	1976 Apr 9 1641:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W546	2442881.19	1976 Apr 12 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W563	2442883.20	1976 Apr 14 1646:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W587	2442888.58	1976 Apr 20 0149:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1976-W611	2442892.61	1976 Apr 24 0234:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W620	2442895.60	1976 Apr 27 0226:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W634	2442897.61	1976 Apr 29 0237:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W654	2442899.23	1976 Apr 30 1735:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W644	2442898.50	1976 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W645	2442898.50	1976 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W646	2442898.50	1976 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W647	2442898.50	1976 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W664	2442902.20	1976 May 3 1642:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W677	2442904.15	1976 May 5 1533:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1976-W694	2442906.19	1976 May 7 1640:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W705	2442909.18	1976 May 10 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W721	2442911.21	1976 May 12 1703:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W733	2442913.21	1976 May 14 1707:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W740	2442916.19	1976 May 17 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W773	2442920.18	1976 May 21 1613:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W807	2442927.15	1976 May 28 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W816	2442930.16	1976 May 31 1548:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W831	2442932.16	1976 Jun 2 1545:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W856	2442939.19	1976 Jun 9 1635:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1976-W883	2442946.22	1976 Jun 16 1715:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W895	2442951.16	1976 Jun 21 1555:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W906	2442953.16	1976 Jun 23 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1976-W919	2442958.19	1976 Jun 28 1634:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W929	2442960.19	1976 Jun 30 1627:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W951	2442967.20	1976 Jul 7 1651:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W962	2442969.19	1976 Jul 9 1637:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W969	2442972.19	1976 Jul 12 1627:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W978	2442974.18	1976 Jul 14 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W1005	2442981.21	1976 Jul 21 1702:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1976-W1037	2442988.19	1976 Jul 28 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1059	2442990.50	1976 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1060	2442990.50	1976 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1080	2442995.20	1976 Aug 4 1648:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W1091	2442997.20	1976 Aug 6 1644:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1101	2443000.21	1976 Aug 9 1658:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1112	2443002.18	1976 Aug 11 1621:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1128	2443004.19	1976 Aug 13 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W1133	2443007.11	1976 Aug 16 1445:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1976-W1171	2443011.18	1976 Aug 20 1623:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1179	2443014.17	1976 Aug 23 1611:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W1192	2443016.19	1976 Aug 25 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1205	2443018.19	1976 Aug 27 1627:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1220	2443021.50	1976 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1221	2443021.50	1976 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1222	2443021.50	1976 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1236	2443023.19	1976 Sep 1 1634:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1976-W1271	2443030.17	1976 Sep 8 1607:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W1287	2443032.19	1976 Sep 10 1629:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W1303	2443037.18	1976 Sep 15 1624:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1316	2443039.18	1976 Sep 17 1621:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1326	2443042.17	1976 Sep 20 1607:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1358	2443046.19	1976 Sep 24 1634:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1372	2443049.17	1976 Sep 27 1610:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-W1398	2443051.50	1976 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1399	2443051.50	1976 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1400	2443051.50	1976 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1412	2443053.19	1976 Oct 1 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1976-W1449	2443060.19	1976 Oct 8 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W1462	2443065.19	1976 Oct 13 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1477	2443067.18	1976 Oct 15 1623:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1498	2443072.17	1976 Oct 20 1610:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1518	2443077.19	1976 Oct 25 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1533	2443079.20	1976 Oct 27 1644:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1976-W1546	2443081.18	1976 Oct 29 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W1557	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1558	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1559	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1560	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1561	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1562	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1563	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1564	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1565	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1566	2443082.50	1976 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1976-W1571	2443084.20	1976 Nov 1 1647:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1976-W1582	2443086.20	1976 Nov 3 1642:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1591	2443087.15	1976 Nov 4 1543:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1976-W1610	2443092.20	1976 Nov 9 1654:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1635	2443095.20	1976 Nov 12 1641:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W1667	2443101.17	1976 Nov 18 1601:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W1671	2443102.20	1976 Nov 19 1643:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1976-W1680	2443105.20	1976 Nov 22 1641:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W1687	2443106.17	1976 Nov 23 1600:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1976-W1696	2443107.22	1976 Nov 24 1719:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1704	2443108.17	1976 Nov 25 1607:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1976-W1710	2443109.18	1976 Nov 26 1612:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1732	2443114.17	1976 Dec 1 1609:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1738	2443115.16	1976 Dec 2 1544:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1976-W1747	2443116.16	1976 Dec 3 1551:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1976-W1766	2443120.23	1976 Dec 7 1733:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1976-W1773	2443121.23	1976 Dec 8 1737:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1976-W1785	2443122.15	1976 Dec 9 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1976-W1790	2443123.15	1976 Dec 10 1534:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1976-W1802	2443126.15	1976 Dec 13 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1811	2443127.15	1976 Dec 14 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1976-W1822	2443128.15	1976 Dec 15 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1838	2443130.15	1976 Dec 17 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1976-W1846	2443133.15	1976 Dec 20 1538:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1976-A80	2443134.23	1976 Dec 21 1732:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	47	-	-
1976-W1867	2443135.24	1976 Dec 22 1743:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1976-W1870	2443136.15	1976 Dec 23 1536:59	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1976-W1874	2443137.15	1976 Dec 24 1540:00	Loki Dart	?	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W05	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W06	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W07	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W08	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W09	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W10	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W11	2443143.50	1977 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W19	2443148.18	1977 Jan 4 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W35	2443149.17	1977 Jan 5 1609:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1977-W70	2443155.68	1977 Jan 12 0425:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W81	2443156.53	1977 Jan 13 0049:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W91	2443158.19	1977 Jan 14 1635:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W101	2443161.20	1977 Jan 17 1652:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W122	2443163.22	1977 Jan 19 1715:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W135	2443164.17	1977 Jan 20 1610:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W143	2443165.16	1977 Jan 21 1553:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W184	2443170.17	1977 Jan 26 1607:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W237	2443175.18	1977 Jan 31 1618:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W13	2443147.16	1977 Jan 3 1545:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1977-W227	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W228	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W229	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W230	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W231	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W232	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W233	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W234	2443174.50	1977 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W402	2443198.63	1977 Feb 24 0307:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W419	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W420	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W421	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W422	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W423	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W424	2443202.50	1977 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W435	2443204.64	1977 Mar 2 0326:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W454	2443206.60	1977 Mar 4 0226:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1977-W473	2443211.16	1977 Mar 8 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W493	2443214.18	1977 Mar 11 1614:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1977-W504	2443217.20	1977 Mar 14 1643:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1977-W510	2443218.24	1977 Mar 15 1746:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W518	2443219.18	1977 Mar 16 1612:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W530	2443220.61	1977 Mar 18 0240:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W540	2443221.62	1977 Mar 19 0248:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W546	2443225.19	1977 Mar 22 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-A17	2443227.17	1977 Mar 24 1604:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	47	-	-
1977-W573	2443228.18	1977 Mar 25 1620:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1977-W580	2443231.17	1977 Mar 28 1557:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W596	2443233.18	1977 Mar 30 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W612	2443235.19	1977 Apr 1 1638:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W661	2443247.17	1977 Apr 13 1606:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W679	2443249.19	1977 Apr 15 1627:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W699	2443254.18	1977 Apr 20 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W714	2443256.18	1977 Apr 22 1612:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W723	2443259.17	1977 Apr 25 1606:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W737	2443261.19	1977 Apr 27 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W747	2443263.12	1977 Apr 29 1447:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W756	2443263.50	1977 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W763	2443266.18	1977 May 2 1623:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W779	2443268.19	1977 May 4 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W795	2443270.19	1977 May 6 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1977-W804	2443273.19	1977 May 9 1630:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W828	2443277.18	1977 May 13 1625:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W835	2443280.18	1977 May 16 1618:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1977-W855	2443282.19	1977 May 18 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W905	2443291.20	1977 May 27 1648:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W921	2443294.19	1977 May 30 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W935	2443296.22	1977 Jun 1 1712:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W970	2443303.21	1977 Jun 8 1701:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1010	2443310.19	1977 Jun 15 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1977-W1052	2443317.18	1977 Jun 22 1625:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1977-W1099	2443324.21	1977 Jun 29 1707:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W1101	2443324.50	1977 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1102	2443324.50	1977 Jul	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1128	2443331.15	1977 Jul 6 1538:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1977-W1195	2443345.20	1977 Jul 20 1641:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1977-W1254	2443352.22	1977 Jul 27 1710:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1977-W1283	2443355.50	1977 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1284	2443355.50	1977 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1285	2443355.50	1977 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1286	2443355.50	1977 Aug	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1305	2443359.19	1977 Aug 3 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W1318	2443361.18	1977 Aug 5 1617:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1977-W1330	2443364.10	1977 Aug 8 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1977-W1350	2443368.20	1977 Aug 12 1641:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1977-W1359	2443371.18	1977 Aug 15 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1367	2443373.19	1977 Aug 17 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1379	2443375.21	1977 Aug 19 1709:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1384	2443378.20	1977 Aug 22 1654:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1977-W1391	2443380.10	1977 Aug 24 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1977-W1405	2443382.18	1977 Aug 26 1624:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1410	2443385.10	1977 Aug 29 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1977-W1424	2443387.17	1977 Aug 31 1607:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1420	2443386.50	1977 Sep	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1431	2443389.18	1977 Sep 2 1622:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1977-W1443	2443394.20	1977 Sep 7 1647:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1977-W1450	2443396.20	1977 Sep 9 1643:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1977-W1475	2443403.17	1977 Sep 16 1601:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1483	2443406.20	1977 Sep 19 1652:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W1491	2443408.19	1977 Sep 21 1638:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1505	2443410.10	1977 Sep 23 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W1515	2443413.19	1977 Sep 26 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1524	2443415.10	1977 Sep 28 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1977-W1541	2443417.18	1977 Sep 30 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1535	2443416.50	1977 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1536	2443416.50	1977 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1558	2443422.18	1977 Oct 5 1623:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1977-W1564	2443424.17	1977 Oct 7 1608:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1579	2443429.21	1977 Oct 12 1700:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1601	2443436.10	1977 Oct 19 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1977-W1616	2443438.10	1977 Oct 21 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1977-W1625	2443441.10	1977 Oct 24 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1645	2443445.18	1977 Oct 28 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1655	2443448.17	1977 Oct 31 1600:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1977-W1649	2443447.50	1977 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1650	2443447.50	1977 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1651	2443447.50	1977 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1652	2443447.50	1977 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1653	2443447.50	1977 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1667	2443450.20	1977 Nov 2 1647:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1977-W1675	2443452.20	1977 Nov 4 1649:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W1683	2443455.19	1977 Nov 7 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1691	2443456.15	1977 Nov 8 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	67	-	-
1977-W1698	2443457.20	1977 Nov 9 1654:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1705	2443458.19	1977 Nov 10 1626:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1718	2443462.23	1977 Nov 14 1726:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1725	2443463.19	1977 Nov 15 1632:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1729	2443464.16	1977 Nov 16 1556:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1740	2443465.19	1977 Nov 17 1640:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1755	2443470.20	1977 Nov 22 1644:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1977-W1762	2443471.20	1977 Nov 23 1654:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1769	2443473.18	1977 Nov 25 1625:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1977-W1776	2443476.20	1977 Nov 28 1648:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1783	2443477.15	1977 Nov 29 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1977-W1796	2443478.19	1977 Nov 30 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1977-W1787	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1788	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1789	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1790	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1791	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1792	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1793	2443477.50	1977 Dec	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1977-W1807	2443480.15	1977 Dec 2 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1817	2443483.19	1977 Dec 5 1633:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1823	2443484.20	1977 Dec 6 1645:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1828	2443485.17	1977 Dec 7 1602:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1977-W1839	2443487.19	1977 Dec 9 1630:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1977-W1845	2443490.18	1977 Dec 12 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1977-W1850	2443491.18	1977 Dec 13 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1977-W1860	2443492.20	1977 Dec 14 1643:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1977-W1875	2443494.21	1977 Dec 16 1703:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1977-W1884	2443498.18	1977 Dec 20 1612:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1977-W1890	2443499.24	1977 Dec 21 1748:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1977-W1896	2443500.20	1977 Dec 22 1641:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1977-W1899	2443501.19	1977 Dec 23 1629:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1977-W1905	2443507.15	1977 Dec 29 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W01	2443512.15	1978 Jan 3 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W10	2443513.22	1978 Jan 4 1720:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	68	-	-
1978-W15	2443514.17	1978 Jan 5 1611:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W18	2443515.15	1978 Jan 6 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1978-W59	2443527.18	1978 Jan 18 1618:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W68	2443528.15	1978 Jan 19 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W71	2443529.19	1978 Jan 20 1637:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W79	2443532.18	1978 Jan 23 1621:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1978-W85	2443533.16	1978 Jan 24 1546:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W92	2443534.19	1978 Jan 25 1635:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W100	2443535.18	1978 Jan 26 1614:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W104	2443536.21	1978 Jan 27 1658:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1978-W109	2443539.19	1978 Jan 30 1640:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W116	2443540.15	1978 Jan 31 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1978-W122	2443541.21	1978 Feb 1 1703:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W126	2443542.18	1978 Feb 2 1620:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W137	2443546.16	1978 Feb 6 1556:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W145	2443547.54	1978 Feb 8 0053:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W149	2443548.18	1978 Feb 8 1624:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W155	2443549.20	1978 Feb 9 1648:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W161	2443550.15	1978 Feb 10 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W166	2443553.20	1978 Feb 13 1644:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W172	2443554.20	1978 Feb 14 1652:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W179	2443555.17	1978 Feb 15 1611:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W189	2443556.18	1978 Feb 16 1622:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W196	2443557.19	1978 Feb 17 1633:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1978-A07	2443560.18	1978 Feb 20 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	47	-	-
1978-W209	2443561.19	1978 Feb 21 1634:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1978-W221	2443562.21	1978 Feb 22 1656:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1978-W231	2443563.61	1978 Feb 24 0242:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W255	2443567.50	1978 Feb 28 0000:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W247	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W248	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W249	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W250	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W251	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W252	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W253	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W254	2443567.50	1978 Mar	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W266	2443569.56	1978 Mar 2 0130:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W279	2443575.59	1978 Mar 8 0204:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1978-W293	2443576.57	1978 Mar 9 0141:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W295	2443577.58	1978 Mar 10 0149:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W310	2443582.56	1978 Mar 15 0121:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W319	2443583.56	1978 Mar 16 0129:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W327	2443585.56	1978 Mar 18 0119:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W337	2443589.15	1978 Mar 21 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W342	2443590.19	1978 Mar 22 1640:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W377	2443597.58	1978 Mar 30 0153:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1978-W379	2443598.19	1978 Mar 30 1636:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W386	2443599.16	1978 Mar 31 1554:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W381	2443598.50	1978 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W382	2443598.50	1978 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W383	2443598.50	1978 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W400	2443604.64	1978 Apr 6 0322:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W408	2443606.59	1978 Apr 8 0214:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W415	2443609.50	1978 Apr 11 0000:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W421	2443611.20	1978 Apr 12 1647:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W441	2443616.29	1978 Apr 17 1859:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W447	2443618.15	1978 Apr 19 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W454	2443620.17	1978 Apr 21 1600:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1978-W461	2443625.18	1978 Apr 26 1613:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W468	2443627.24	1978 Apr 28 1740:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W471	2443628.50	1978 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W472	2443628.50	1978 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W473	2443628.50	1978 May	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W475	2443630.19	1978 May 1 1627:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W489	2443634.11	1978 May 5 1433:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W495	2443637.10	1978 May 8 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W507	2443639.18	1978 May 10 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1978-W516	2443641.17	1978 May 12 1607:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1978-W559	2443648.15	1978 May 19 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1978-W581	2443653.21	1978 May 24 1700:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W591	2443655.10	1978 May 26 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W597	2443658.10	1978 May 29 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W607	2443660.16	1978 May 31 1554:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1978-W629	2443667.20	1978 Jun 7 1651:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W649	2443674.22	1978 Jun 14 1717:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W674	2443681.16	1978 Jun 21 1555:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1978-W696	2443688.19	1978 Jun 28 1635:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W702	2443690.11	1978 Jun 30 1445:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W717	2443695.19	1978 Jul 5 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-A32	2443697.18	1978 Jul 7 1618:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	46	-	-
1978-W728	2443700.10	1978 Jul 10 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W739	2443702.22	1978 Jul 12 1720:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W744	2443704.19	1978 Jul 14 1630:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W750	2443707.20	1978 Jul 17 1641:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W760	2443709.20	1978 Jul 19 1642:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1978-W770	2443711.10	1978 Jul 21 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1978-W773	2443714.12	1978 Jul 24 1453:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W783	2443716.17	1978 Jul 26 1607:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W790	2443718.17	1978 Jul 28 1602:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W797	2443721.10	1978 Jul 31 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W811	2443725.19	1978 Aug 4 1638:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W821	2443730.12	1978 Aug 9 1451:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1978-W830	2443732.10	1978 Aug 11 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W836	2443735.11	1978 Aug 14 1433:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W847	2443737.21	1978 Aug 16 1706:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1978-W857	2443739.17	1978 Aug 18 1603:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W865	2443742.16	1978 Aug 21 1548:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W872	2443744.18	1978 Aug 23 1622:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1978-W885	2443746.20	1978 Aug 25 1652:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W893	2443749.19	1978 Aug 28 1629:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W899	2443751.10	1978 Aug 30 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W915	2443753.10	1978 Sep 1 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W935	2443760.01	1978 Sep 8 1217:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W942	2443763.18	1978 Sep 11 1615:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W948	2443764.56	1978 Sep 13 0122:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1978-W950	2443764.98	1978 Sep 13 1137:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W960	2443767.10	1978 Sep 15 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W966	2443770.20	1978 Sep 18 1642:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W976	2443772.21	1978 Sep 20 1700:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W989	2443774.10	1978 Sep 22 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W995	2443777.10	1978 Sep 25 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W1005	2443779.16	1978 Sep 27 1551:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W1014	2443781.18	1978 Sep 29 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1019	2443781.50	1978 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1020	2443781.50	1978 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1021	2443781.50	1978 Oct	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1025	2443784.19	1978 Oct 2 1634:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W1037	2443788.10	1978 Oct 6 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W1046	2443793.10	1978 Oct 11 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W1057	2443795.10	1978 Oct 13 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W1074	2443800.21	1978 Oct 18 1700:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1978-W1094	2443807.14	1978 Oct 25 1525:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1102	2443809.10	1978 Oct 27 1430:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W1112	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1113	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1114	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1115	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1116	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1117	2443812.50	1978 Nov	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1978-W1121	2443814.18	1978 Nov 1 1622:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1978-W1127	2443815.17	1978 Nov 2 1602:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	54	-	-
1978-W1130	2443816.15	1978 Nov 3 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W1135	2443819.16	1978 Nov 6 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1139	2443820.15	1978 Nov 7 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W1144	2443821.20	1978 Nov 8 1652:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W1151	2443822.26	1978 Nov 9 1814:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W1153	2443823.15	1978 Nov 10 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W1157	2443826.18	1978 Nov 13 1619:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1978-W1162	2443827.15	1978 Nov 14 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1978-W1165	2443828.19	1978 Nov 15 1637:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	50	-	-
1978-W1171	2443829.17	1978 Nov 16 1607:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1175	2443830.16	1978 Nov 17 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W1182	2443832.17	1978 Nov 19 1559:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W1186	2443833.15	1978 Nov 20 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W1192	2443834.18	1978 Nov 21 1620:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1198	2443835.16	1978 Nov 22 1548:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1203	2443836.15	1978 Nov 23 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1978-W1211	2443840.16	1978 Nov 27 1555:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1978-W1218	2443841.34	1978 Nov 28 2012:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W1220	2443842.19	1978 Nov 29 1640:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	51	-	-
1978-W1226	2443843.15	1978 Nov 30 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1230	2443844.29	1978 Dec 1 1859:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1978-W1241	2443849.22	1978 Dec 6 1715:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1978-W1247	2443850.32	1978 Dec 7 1940:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W1250	2443851.34	1978 Dec 8 2011:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1978-W1256	2443854.15	1978 Dec 11 1537:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1978-W1259	2443855.16	1978 Dec 12 1556:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1275	2443858.31	1978 Dec 15 1926:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1978-W1277	2443861.15	1978 Dec 18 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1978-W1282	2443862.32	1978 Dec 19 1941:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	52	-	-
1978-W1285	2443863.18	1978 Dec 20 1618:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1978-W1292	2443864.15	1978 Dec 21 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1979-W01	2443873.50	1979 Jan	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1979-W39	2443879.32	1979 Jan 5 1941:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1979-W48	2443882.33	1979 Jan 8 1955:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W53	2443883.16	1979 Jan 9 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W63	2443884.28	1979 Jan 10 1840:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1979-W68	2443885.18	1979 Jan 11 1618:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1979-W79	2443886.30	1979 Jan 12 1917:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1979-W84	2443889.37	1979 Jan 15 2049:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1979-W86	2443890.31	1979 Jan 16 1929:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1979-W97	2443891.31	1979 Jan 17 1932:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W103	2443892.32	1979 Jan 18 1937:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1979-W108	2443893.15	1979 Jan 19 1533:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	67	-	-
1979-W123	2443896.56	1979 Jan 23 0124:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1979-W152	2443900.58	1979 Jan 27 0202:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1979-W160	2443903.30	1979 Jan 29 1908:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1979-A05	2443904.33	1979 Jan 30 1951:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	48	-	-
1979-W173	2443905.17	1979 Jan 31 1601:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1979-W164	2443904.50	1979 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1979-W165	2443904.50	1979 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1979-W166	2443904.50	1979 Feb	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1979-W180	2443906.17	1979 Feb 1 1557:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1979-W188	2443907.27	1979 Feb 2 1835:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1979-A06	2443910.34	1979 Feb 5 2011:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	49	-	-
1979-W200	2443911.33	1979 Feb 6 2001:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W207	2443912.15	1979 Feb 7 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1979-W216	2443913.28	1979 Feb 8 1844:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1979-W225	2443914.29	1979 Feb 9 1857:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1979-W233	2443917.37	1979 Feb 12 2048:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W236	2443918.36	1979 Feb 13 2033:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1979-W243	2443919.32	1979 Feb 14 1935:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1979-W251	2443920.32	1979 Feb 15 1935:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	56	-	-
1979-W260	2443921.35	1979 Feb 16 2030:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W266	2443924.27	1979 Feb 19 1831:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W269	2443925.28	1979 Feb 20 1848:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	66	-	-
1979-W280	2443926.30	1979 Feb 21 1907:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W285	2443927.36	1979 Feb 22 2038:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1979-W292	2443928.35	1979 Feb 23 2029:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W301	2443931.21	1979 Feb 26 1700:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	65	-	-
1979-W304	2443931.27	1979 Feb 26 1823:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	53	-	-
1979-W312	2443932.15	1979 Feb 27 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1979-W322	2443933.15	1979 Feb 28 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1979-W330	2443934.15	1979 Mar 1 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	57	-	-
1979-W333	2443935.15	1979 Mar 2 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1979-W342	2443938.33	1979 Mar 5 1952:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W352	2443940.34	1979 Mar 7 2004:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1979-W355	2443941.33	1979 Mar 8 1954:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W359	2443942.28	1979 Mar 9 1847:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1979-W370	2443946.36	1979 Mar 13 2045:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	64	-	-
1979-W379	2443948.17	1979 Mar 15 1607:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W390	2443952.16	1979 Mar 19 1549:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W397	2443953.15	1979 Mar 20 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1979-W401	2443954.29	1979 Mar 21 1858:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	58	-	-
1979-W406	2443955.15	1979 Mar 22 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W411	2443956.36	1979 Mar 23 2043:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	63	-	-
1979-W418	2443959.33	1979 Mar 26 1949:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1979-W423	2443960.32	1979 Mar 27 1933:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1979-W429	2443961.33	1979 Mar 28 1951:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	61	-	-
1979-W436	2443963.16	1979 Mar 30 1555:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	60	-	-
1979-W440	2443963.50	1979 Apr	Loki Dart	-	-	-	-	-	-	FC	-	-	-	60?	-	-
1979-W445	2443966.15	1979 Apr 2 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-W451	2443968.15	1979 Apr 4 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	55	-	-
1979-W470	2443970.16	1979 Apr 6 1552:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	62	-	-
1979-A20	2443973.17	1979 Apr 9 1559:59	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	46	-	-
1979-W485	2443975.15	1979 Apr 11 1530:00	Loki Dart	-	-	Arcasonde	-	-	-	FC	-	-	-	59	-	-
1980-W794	2444472.24	1980 Aug 20 1750:00	Loki Dart	-	FLIGHT 281 /TH1-	-	-	-	-	PRIM	-	-	-	70	-	-
1982-W30	2444985.97	1982 Jan 16 1119:00	Loki Dart	-	TM1-0224	-	-	-	-	PF	-	-	-	75?	-	-
1982-W31	2444985.99	1982 Jan 16 1144:00	Loki Dart	-	TM1-0225	-	-	-	-	PF	-	-	-	57	-	-
1982-W32	2444986.99	1982 Jan 17 1140:00	Loki Dart	-	TM1-0226	-	-	-	-	PF	-	-	-	57	-	-
1982-W34	2444987.98	1982 Jan 18 1127:00	Loki Dart	-	TM1-0227	-	-	-	-	PF	-	-	-	55	-	-
1982-W41	2444989.73	1982 Jan 20 0530:00	Loki Dart	-	TM1-0229	-	-	-	-	PF	-	-	-	60	-	-
1982-W40	2444989.56	1982 Jan 20 0127:00	Loki Dart	-	TM1-0228	-	-	-	-	PF	-	-	-	62	-	-
1982-W52	2444993.08	1982 Jan 23 1348:00	Loki Dart	-	TM1-0231	-	-	-	-	PF	-	-	-	68	-	-
1982-W53	2444994.05	1982 Jan 24 1305:00	Loki Dart	-	TM1-0232	-	-	-	-	PF	-	-	-	59	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W54	2444994.11	1982 Jan 24 1432:00	Loki Dart	-	TM1-0233	-	-	-	-	PF	-	-	-	65	-	-
1982-W151	2445028.29	1982 Feb 27 1900:00	Loki Dart	-	T 1-0109	-	-	-	-	WI	-	-	-	60	-	-
1982-W163	2445035.29	1982 Mar 06 1902:00	Loki Dart	-	T 1-0120	-	-	-	-	WI	-	-	-	60	-	-
1982-W165	2445036.29	1982 Mar 07 1901:00	Loki Dart	-	T 1-0121	-	-	-	-	WI	-	-	-	59	-	-
1982-W177	2445042.29	1982 Mar 13 1903:00	Loki Dart	-	T 1-0127	-	-	-	-	WI	-	-	-	61	-	-
1982-W178	2445043.29	1982 Mar 14 1901:00	Loki Dart	-	T 1-0128	-	-	-	-	WI	-	-	-	61	-	-
1982-W179	2445044.29	1982 Mar 15 1900:00	Loki Dart	-	T 1-0129	-	-	-	-	WI	-	-	-	74	-	-
1982-W188	2445049.29	1982 Mar 20 1900:00	Loki Dart	-	T 1-0134	-	-	-	-	WI	-	-	-	62	-	-
1982-W190	2445050.31	1982 Mar 21 1920:00	Loki Dart	-	T 1-0288	-	-	-	-	WI	-	-	-	61	-	-
1982-W197	2445052.29	1982 Mar 23 1900:00	Loki Dart	-	T 1-0291	-	-	-	-	WI	-	-	-	78	-	-
1982-W437	2445264.85	1982 Oct 22 0822:00	Loki Dart	-	T 1-0442	-	-	-	-	WI	-	-	-	59	-	-
1982-W463	2445289.85	1982 Nov 16 0824:00	Loki Dart	-	T 1-0443	-	-	-	-	WI	-	-	-	59	-	-
1982-W478	2445297.86	1982 Nov 24 0833:00	Loki Dart	-	T 1-0444	-	-	-	-	WI	-	-	-	63	-	-
1982-W489	2445305.85	1982 Dec 02 0827:00	Loki Dart	-	T 1-0450	-	-	-	-	WI	-	-	-	60	-	-
1982-W491	2445306.84	1982 Dec 03 0815:00	Loki Dart	-	T 1-0451	-	-	-	-	WI	-	-	-	62	-	-
1982-W506	2445323.84	1982 Dec 20 0810:00	Loki Dart	-	T 1-0452	-	-	-	-	WI	-	-	-	61	-	-
1983-W10	2445348.85	1983 Jan 14 0822:00	Loki Dart	-	T 1-0471	-	-	-	-	WI	-	-	-	66	-	-
1983-W17	2445355.85	1983 Jan 21 0825:00	Loki Dart	-	T 1-0472	-	-	-	-	WI	-	-	-	61	-	-
1983-W27	2445372.85	1983 Feb 07 0817:00	Loki Dart	-	T 1-0482	-	-	-	-	WI	-	-	-	64	-	-
1983-W35	2445380.85	1983 Feb 15 0822:00	Loki Dart	-	T 1-0484	-	-	-	-	WI	-	-	-	62	-	-
1983-W48	2445388.87	1983 Feb 23 0848:00	Loki Dart	-	T 1-0517	-	-	-	-	WI	-	-	-	56	-	-
1983-W60	2445397.84	1983 Mar 04 0815:00	Loki Dart	-	T 1-0492	-	-	-	-	WI	-	-	-	61	-	-
1983-W71	2445404.86	1983 Mar 11 0835:00	Loki Dart	-	T 1-0494	-	-	-	-	WI	-	-	-	61	-	-
1983-W76	2445408.31	1983 Mar 14 1920:00	Loki Dart	-	T 1-0496	-	-	-	-	WI	-	-	-	60	-	-
1983-W89	2445416.31	1983 Mar 22 1925:00	Loki Dart	-	T 1-0500	-	-	-	-	WI	-	-	-	54	-	-
1983-W97	2445421.85	1983 Mar 28 0830:00	Loki Dart	-	T 1-0502	-	-	-	-	WI	-	-	-	66	-	-
1983-W102	2445424.31	1983 Mar 30 1925:00	Loki Dart	-	T 1-0506	-	-	-	-	WI	-	-	-	55	-	-
1983-W107	2445430.85	1983 Apr 06 0820:00	Loki Dart	-	T 1-0490	-	-	-	-	WI	-	-	-	50	-	-
1983-W108	2445430.86	1983 Apr 06 0841:00	Loki Dart	-	T 1-0529	-	-	-	-	WI	-	-	-	58	-	-
1983-W123	2445440.32	1983 Apr 15 1935:00	Loki Dart	-	T 1-0166	-	-	-	-	WI	-	-	-	63	-	-
1983-W133	2445457.32	1983 May 02 1935:00	Loki Dart	-	T 1-0498	-	-	-	-	WI	-	-	-	63	-	-
1983-W145	2445465.31	1983 May 10 1930:00	Loki Dart	-	T 1-0525	-	-	-	-	WI	-	-	-	57	-	-
1983-W158	2445471.85	1983 May 17 0820:00	Loki Dart	-	T 1-0527	-	-	-	-	WI	-	-	-	63	-	-
1983-W164	2445479.10	1983 May 24 1430:00	Loki Dart	-	T 1-0541	-	-	-	-	WI	-	-	-	66	-	-
1983-W177	2445487.85	1983 Jun 02 0825:00	Loki Dart	-	T 1-0530	-	-	-	-	WI	-	-	-	60	-	-
1983-W184	2445495.84	1983 Jun 10 0815:00	Loki Dart	-	T 1-0532	-	-	-	-	WI	-	-	-	62	-	-
1983-W186	2445499.30	1983 Jun 13 1915:00	Loki Dart	-	T 1-0550	-	-	-	-	WI	-	-	-	56	-	-
1983-W192	2445506.31	1983 Jun 20 1920:00	Loki Dart	-	T 1-0534	-	-	-	-	WI	-	-	-	61	-	-
1983-W201	2445512.84	1983 Jun 27 0815:00	Loki Dart	-	T 1-0536	-	-	-	-	WI	-	-	-	60	-	-
1983-W203	2445514.32	1983 Jun 28 1938:00	Loki Dart	-	T 1-0538	-	-	-	-	WI	-	-	-	62	-	-
1983-W207	2445516.50	1983 Jul 01 0001:00	Loki Dart	-	T 1-0642	-	-	-	-	WI	-	-	-	65	-	-
1983-W210	2445523.29	1983 Jul 07 1900:00	Loki Dart	-	T 1-0644	-	-	-	-	WI	-	-	-	64	-	-
1983-W211	2445528.84	1983 Jul 13 0815:00	Loki Dart	-	T 1-0646	-	-	-	-	WI	-	-	-	60	-	-
1983-W215	2445531.32	1983 Jul 15 1938:00	Loki Dart	-	T 1-0648	-	-	-	-	WI	-	-	-	63	-	-
1983-W219	2445536.85	1983 Jul 21 0829:00	Loki Dart	-	T 1-0661	-	-	-	-	WI	-	-	-	65	-	-
1983-W224	2445544.84	1983 Jul 29 0815:00	Loki Dart	-	T 1-0654	-	-	-	-	WI	-	-	-	64	-	-
1983-W225	2445545.03	1983 Jul 29 1250:00	Loki Dart	-	T 1-0656	-	-	-	-	WI	-	-	-	63	-	-
1983-W234	2445557.02	1983 Aug 10 1230:00	Loki Dart	-	T 1-0658	-	-	-	-	WI	-	-	-	52	-	-
1983-W249	2445579.03	1983 Sep 01 1245:00	Loki Dart	-	T 1-0666	-	-	-	-	WI	-	-	-	62	-	-
1983-W270	2445593.03	1983 Sep 15 1245:00	Loki Dart	-	T 1-0668	-	-	-	-	WI	-	-	-	60	-	-
1983-W274	2445597.30	1983 Sep 19 1914:00	Loki Dart	-	T 1-0670	-	-	-	-	WI	-	-	-	55	-	-
1983-W275	2445598.03	1983 Sep 20 1245:00	Loki Dart	-	T 1-0672	-	-	-	-	WI	-	-	-	52	-	-
1983-W286	2445612.50	1983 Oct 04 2355:00	Loki Dart	-	T 1-0712	-	-	-	-	WI	-	-	-	58	-	-
1983-W292	2445621.50	1983 Oct 14 0000:00	Loki Dart	-	T 1-0714	-	-	-	-	WI	-	-	-	62	-	-
1983-W302	2445635.51	1983 Oct 28 0012:00	Loki Dart	-	T 1-0791	-	-	-	-	WI	-	-	-	54	-	-
1983-W304	2445639.04	1983 Oct 31 1258:00	Loki Dart	-	T 1-0718	-	-	-	-	WI	-	-	-	56	-	-
1983-W315	2445649.49	1983 Nov 10 2350:00	Loki Dart	-	T 1-0779	-	-	-	-	WI	-	-	-	60	-	-
1983-W316	2445653.03	1983 Nov 14 1245:00	Loki Dart	-	T 1-0781	-	-	-	-	WI	-	-	-	61	-	-
1983-W325	2445662.03	1983 Nov 23 1250:00	Loki Dart	-	T 1-0783	-	-	-	-	WI	-	-	-	60	-	-
1983-W344	2445676.04	1983 Dec 07 1255:00	Loki Dart	-	T 1-0787	-	-	-	-	WI	-	-	-	62	-	-
1983-W373	2445690.04	1983 Dec 21 1255:00	Loki Dart	-	T 1-0789	-	-	-	-	WI	-	-	-	59	-	-
1984-W09	2445709.50	1984 Jan 09 2359:00	Loki Dart	-	T 1-0800	-	-	-	-	WI	-	-	-	58	-	-
1984-W68	2445742.02	1984 Feb 11 1230:00	Loki Dart	-	T 1-0785	-	-	-	-	WI	-	-	-	51	-	-
1984-W99	2445760.50	1984 Feb 29 2359:00	Loki Dart	-	T 1-0863	-	-	-	-	WI	-	-	-	59	-	-
1984-W108	2445774.51	1984 Mar 15 0014	Loki Dart	-	-	T 1-0881	-	-	-	WI	-	-	-	57	-	-
1984-W122	2445788.52	1984 Mar 29 0026:00	Loki Dart	-	T 1-0867	-	-	-	-	WI	-	-	-	52	-	-
1984-W166	2445816.49	1984 Apr 25 2345	Loki Dart	-	-	T 1-0859	-	-	-	WI	-	-	-	62	-	-
1984-W175	2445828.99	1984 May 08 1145:00	Loki Dart	-	T 1-0857	-	-	-	-	WI	-	-	-	62	-	-
1985-W220	2446285.12	1985 Aug 07 1500:00	Loki Dart	-	LOKI DATASONDE	PWN-8B	-	-	-	WI	-	-	-	57	-	-
1985-W227	2446308.12	1985 Aug 30 1500:00	Loki Dart	-	LOKI DATASONDE	-	-	-	-	WI	-	-	-	55	-	-
1985-W236	2446314.04	1985 Sep 05 1300:00	Loki Dart	-	LOKI DATASONDE	PWN-8B	-	-	-	WI	-	-	-	53	-	-
1985-W240	2446320.29	1985 Sep 11 1855:00	Loki Dart	-	LOKI DATASONDE	PWN-8B	-	-	-	WI	-	-	-	57	-	-
1985-W249	2446328.56	1985 Sep 20 0130:00	Loki Dart	-	LOKI DATASONDE	PWN-8B	-	-	-	WI	-	-	-	52	-	-
1985-W250	2446329.55	1985 Sep 21 0119:00	Loki Dart	-	LOKI DATASONDE	PWN-8B	-	-	-	WI	-	-	-	54	-	-
1985-W251	2446329.60	1985 Sep 21 0219	Loki Dart	-	-	PWN-8B	-	-	-	WI	-	-	-	52	-	-
1985-W252	2446329.64	1985 Sep 21 0319	Loki Dart	-	-	PWN-8B	-	-	-	WI	-	-	-	50	-	-
1985-W263	2446348.26	1985 Oct 09 1813:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	50	-	-
1985-W268	2446355.32	1985 Oct 16 1947:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	51	-	-
1985-W274	2446367.28	1985 Oct 28 1845:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	53	-	-
1985-W294	2446376.28	1985 Nov 06 1850:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	56	-	-
1985-A12	2446385.08	1985 Nov 15 1400:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	49	-	-
1985-W300	2446390.29	1985 Nov 20 1900:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	57	-	-
1985-A14	2446395.29	1985 Nov 25 1857:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	35	-	-
1985-W322	2446405.29	1985 Dec 05 1900:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	55	-	-
1985-W324	2446407.64	1985 Dec 8 0315	Loki Dart	-	-	PWN-8B	-	-	-	WI	-	-	-	56	-	-
1985-W326	2446409.50	1985 Dec 10 0000:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	56	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W329	2446410.54	1985 Dec 11 0100:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	56	-	-
1985-W332	2446411.48	1985 Dec 11 2330:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	57	-	-
1985-W336	2446416.25	1985 Dec 16 1800:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	56	-	-
1985-A17	2446416.60	1985 Dec 17 0230:00	Loki Dart	-	LOKI	PWN-8B	-	-	-	WI	-	-	-	34	-	-
1985-A18	2446417.50	1985 Dec 18 0000:00	Loki Dart	-	LOKI	-	-	-	-	WI	-	-	-	48	-	-
1985-W342	2446417.61	1985 Dec 18 0236:00	Loki Dart	-	PWN-8B	PWN-8B	-	-	-	WI	-	-	-	56	-	-
1985-W344	2446423.29	1985 Dec 23 1900:00	Loki Dart	-	LOKI PWN-8B	PWN-8B	-	-	-	WI	-	-	-	54	-	-
1985-W348	2446430.12	1985 Dec 30 1500:00	Loki Dart	-	LOKI PWN-8B	Final US MET Loki	-	-	-	WI	-	-	-	55	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-S73	2435374.36	1955 Sep 23 2034	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S75	2435375.38	1955 Sep 24 2109	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-A474	2435376.36	1955 Sep 25 2039	Loki Rockoon	-	-	0.000	SUI	SF	U	SUI/	Ionos/Aeron?	Newell	-	-
1955-S78	2435378.55	1955 Sep 28 0113	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S87	2435381.34	1955 Sep 30 2010	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1955-S88	2435385.39	1955 Oct 4 2118	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Ionos/Aeron?	Newell	-	-
1956-W01	2435510.50	1956 Feb 7	Loki Dart	-	WASP 1	0.000	ONR	SS	-	USN/	Test	Newell	-	-
1956-W02	2435563.50	1956 Apr	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-W03	2435563.50	1956 Apr	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-W04	2435593.50	1956 May	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-W05	2435621.76	1956 May 28 0616	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Redwing	-	-
1956-W06	2435602.50	1956 May 9	Loki Dart	-	1-12	0.000	SCEL	SU	-	SCEL/	Test	wsmr-history.org	-	-
1956-W07	2435603.50	1956 May 10	Loki Dart	-	13-20	0.000	SCEL	SS	-	SCEL/	Test	Newell	-	-
1956-A58	2435624.50	1956 Jun	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A59	2435635.50	1956 Jun 11	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A374	2435636.50	1956 Jun 12	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A375	2435643.50	1956 Jun 19	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A376	2435646.50	1956 Jun 22	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A67	2435654.50	1956 Jul	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A68	2435669.50	1956 Jul 15	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A377	2435675.50	1956 Jul 21	Loki Dart	-	WASP 1	0.000	JTF7	SS	-	USN/	Aeronomy	Newell	-	-
1956-A359	2435818.50	1956 Dec 11	Loki Dart	-	WASP	0.000	SCEL?	SF	U	SCEL/?	Test	wsmr-history.org	-	-
1956-M09	2435818.50	1956 Dec 11	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-A360	2435818.50	1956 Dec 11	Loki Dart	-	WASP	0.000	SCEL?	SF	U	SCEL/?	Test	wsmr-history.org	-	-
1956-M10	2435818.50	1956 Dec 11	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-A361	2435819.50	1956 Dec 12	Loki Dart	-	WASP	0.000	SCEL?	SF	U	SCEL/?	Test	wsmr-history.org	-	-
1956-M11	2435820.50	1956 Dec 13	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M12	2435820.50	1956 Dec 13	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M13	2435820.50	1956 Dec 13	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M14	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M15	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M16	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M17	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M18	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M19	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M20	2435821.50	1956 Dec 14	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M21	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M22	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M23	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M24	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M25	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M26	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1956-M27	2435825.50	1956 Dec 18	Loki Dart	-	WASP	0.000	SCEL?	SS	-	SCEL/?	Test	wsmr-history.org	-	-
1957-M02	2435882.35	1957 Feb 12 2030	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1957-M03	2435884.34	1957 Feb 14 2005	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1957-M04	2435887.40	1957 Feb 17 2136	Loki Rockoon	-	-	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1957-S72	2436056.06	1957 Aug 5 1322	Loki Rockoon	-	II5.01F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	Newell	-	-
1957-S73	2436056.21	1957 Aug 5 1659	Loki Rockoon	-	II5.02F	0.000	SUI	SS	-	SUI/VanAllen?	Fields	Newell	-	-
1957-S75	2436057.05	1957 Aug 6 1313	Loki Rockoon	-	II5.03F	0.000	SUI	SS	-	SUI/VanAllen	Aeron/Auroral/CR	Newell	JGR100,14485	-
1957-S76	2436057.22	1957 Aug 6 1723	Loki Rockoon	-	II5.04F	0.000	SUI	SS	-	SUI/Cahill	Ionos	Newell	-	-
1957-A74	2436057.64	1957 Aug 7 0328	Loki Rockoon	-	II5.05F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/CR	Newell	-	-
1957-A75	2436058.42	1957 Aug 7 2204	Loki Rockoon	-	II5.06F	0.000	SUI	SF	U	SUI/VanAllen?	Fields	Newell	-	-
1957-S79	2436058.80	1957 Aug 8 0717	Loki Rockoon	-	II5.07F	0.000	SUI	SS	-	SUI/VanAllen	Aeron/CR	Newell	JGR100,14485	-
1957-S81	2436060.77	1957 Aug 10 0629	Loki Rockoon	-	II5.08F	0.000	SUI	SS	-	SUI/VanAllen	Aeron/Auroral/CR	Newell	JGR100,14485	-
1957-M09	2436061.48	1957 Aug 10 2336	Loki Rockoon	-	II5.09F	0.000	SUI	SS	-	SUI/VanAllen	Aeron/Auroral/CR	Newell	JGR100,14485	-
1957-A76	2436061.72	1957 Aug 11 0516	Loki Rockoon	-	II5.10F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/CR	Newell	-	-
1957-S82	2436062.35	1957 Aug 11 2030	Loki Rockoon	-	II5.11F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	Newell	-	-
1957-A78	2436062.83	1957 Aug 12 0748	Loki Rockoon	-	II5.12F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Auroral/CR	Newell	-	-
1957-S83	2436063.14	1957 Aug 12 1515	Loki Rockoon	-	II5.13F	0.000	SUI	SS	-	SUI/VanAllen?	Auroral/Fields	Newell	-	-
1957-S85	2436063.58	1957 Aug 13 0158	Loki Rockoon	-	II5.14F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Auroral/CR	Newell	-	-
1957-S86	2436064.89	1957 Aug 14 0924	Loki Rockoon	-	II5.15F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Auroral/CR	Newell	-	-
1957-S87	2436065.13	1957 Aug 14 1507	Loki Rockoon	-	II5.16F	0.000	SUI	SS	-	SUI/VanAllen?	Auroral/Fields	Newell	-	-
1957-S88	2436065.39	1957 Aug 14 2119	Loki Rockoon	-	II5.17F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Auroral/CR	Newell	JGR100,14485	-
1957-S89	2436065.51	1957 Aug 15 0011	Loki Rockoon	-	II5.18F	0.000	SUI	SS	-	SUI/VanAllen	Aeron/Auroral/CR	Newell	JGR100,14485	-
1957-S113	2436108.26	1957 Sep 26 1821	Loki Rockoon	-	II5.50F	0.000	SUI	SS	-	SUI/VanAllen?	Test	WDCRF	-	-
1957-S114	2436109.10	1957 Sep 27 1427	Loki Rockoon	-	II5.51F	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S118	2436116.36	1957 Oct 4 2036	Loki Rockoon	-	II5.52F	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	JGR100,14485	-
1957-S121	2436125.26	1957 Oct 13 1815	Loki Rockoon	-	II5.53F	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S123	2436126.44	1957 Oct 14 2231	Loki Rockoon	-	II5.54F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S124	2436128.39	1957 Oct 16 2117	Loki Rockoon	-	II5.55F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S125	2436128.51	1957 Oct 17 0009	Loki Rockoon	-	II5.56F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S126	2436128.60	1957 Oct 17 0218	Loki Rockoon	-	II5.57F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-A121	2436129.39	1957 Oct 17 2116	Loki Rockoon	-	II5.58F	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S128	2436129.54	1957 Oct 18 0059	Loki Rockoon	-	II5.59F	0.000	SUI	SS	-	SUI/Cahill	Fields	WDCRF	-	-
1957-S129	2436129.90	1957 Oct 18 0935	Loki Rockoon	-	II5.60F	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S130	2436130.37	1957 Oct 18 2058	Loki Rockoon	-	II5.61F	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S131	2436130.54	1957 Oct 19 0059	Loki Rockoon	-	II5.62F	0.000	SUI	SS	-	SUI/Cahill	Fields	WDCRF	JGR63,270	-
1957-S132	2436131.34	1957 Oct 19 2007	Loki Rockoon	-	SUI 87	0.000	SUI	SS	-	SUI/Cahill	Fields	WDCRF	-	-
1957-S134	2436131.60	1957 Oct 20 0219	Loki Rockoon	-	SUI 88	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S135	2436131.66	1957 Oct 20 0357?	Loki Rockoon	-	SUI 89	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S136	2436132.34	1957 Oct 20 2011	Loki Rockoon	-	SUI 90	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S138	2436134.44	1957 Oct 22 2231	Loki Rockoon	-	SUI 91	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S146	2436138.32	1957 Oct 26 1947	Loki Rockoon	-	SUI 92	0.000	SUI	SS	-	SUI/VanAllen?	CR	WDCRF	-	-
1957-S147	2436138.62	1957 Oct 27 0246	Loki Rockoon	-	SUI 93	0.000	SUI	SF	U	SUI/VanAllen?	CR	WDCRF	-	-
1957-S148	2436140.51	1957 Oct 29 0013	Loki Rockoon	-	SUI 94	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/CR	WDCRF	-	-
1957-S149	2436142.45	1957 Oct 30 2250	Loki Rockoon	-	SUI 95	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S150	2436142.57	1957 Oct 31 0144	Loki Rockoon	-	SUI 96	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	WDCRF	-	-
1957-S151	2436143.33	1957 Oct 31 1951	Loki Rockoon	-	SUI 97	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S152	2436143.54	1957 Nov 1 0100	Loki Rockoon	-	SUI 98	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S153	2436146.34	1957 Nov 3 2008	Loki Rockoon	-	SUI 99	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S154	2436146.53	1957 Nov 4 0039	Loki Rockoon	-	SUI 100	0.000	SUI	SS	-	SUI/VanAllen	Aeron/CR	WDCRF	JGR100,14485	-
1957-S155	2436146.62	1957 Nov 4 0250	Loki Rockoon	-	SUI 101	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S156	2436146.66	1957 Nov 4 0347	Loki Rockoon	-	SUI 102	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S157	2436146.80	1957 Nov 4 0716	Loki Rockoon	-	SUI 103	0.000	SUI	SF	U	SUI/VanAllen?	Aeron/CR	WDCRF	-	-
1957-S158	2436147.29	1957 Nov 4 1852	Loki Rockoon	-	SUI 104	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S159	2436147.56	1957 Nov 5 0125	Loki Rockoon	-	SUI 105	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	WDCRF	-	-
1957-S160	2436148.35	1957 Nov 5 2023	Loki Rockoon	-	SUI 106	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S161	2436148.47	1957 Nov 5 2317	Loki Rockoon	-	SUI 107	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/Fields	WDCRF	-	-
1957-S165	2436151.42	1957 Nov 8 2200	Loki Rockoon	-	SUI 108	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	WDCRF	JGR100,14485	-
1957-S166	2436151.50	1957 Nov 9 0000	Loki Rockoon	-	SUI 109	0.000	SUI	SS	-	SUI/VanAllen?	Aeron/CR	WDCRF	JGR100,14485	-
1958-W14	2436427.50	1958 Aug 12	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W02	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W03	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W04	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W05	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W06	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W07	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W08	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W09	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W10	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W11	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W12	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W13	2436415.50	1958 Aug	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-A90	2436429.50	1958 Aug 14	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A91	2436429.50	1958 Aug 14	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A92	2436429.50	1958 Aug 14	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A94	2436430.50	1958 Aug 15	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A95	2436430.50	1958 Aug 15	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A96	2436430.50	1958 Aug 15	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-W15	2436437.50	1958 Aug 22	Loki Dart	-	-	0.000	TF88	SS	-	USN/	Test	ARGUS	-	-
1958-W16	2436450.21	1958 Sep 3 1703	Loki Dart	-	II9.01F	0.000	SUI	SS	-	SUI/	Test/CR/Plasma	WDCRF	-	-
1958-W17	2436450.31	1958 Sep 3 1930	Loki Dart	-	II9.02F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W18	2436451.31	1958 Sep 4 1930	Loki Dart	-	II9.03F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-A109	2436454.48	1958 Sep 7 2330	Loki Dart	-	II9.04F	0.000	SUI	SF	U	SUI/	CR/Plasma	WDCRF	-	-
1958-W19	2436454.59	1958 Sep 8 0204	Loki Dart	-	II9.05F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W20	2436454.62	1958 Sep 8 0256	Loki Dart	-	II9.06F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-A121	2436468.50	1958 Sep 22	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A122	2436468.50	1958 Sep 22	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A123	2436468.50	1958 Sep 22	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A127	2436471.50	1958 Sep 25	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-A128	2436471.50	1958 Sep 25	Loki Dart	-	-	0.000	PARD/UMD	SS	-	UMD/	Aeron/Test	RP-1028	-	-
1958-W21	2436519.39	1958 Nov 11 2118	Loki Dart	-	II9.07F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W22	2436521.39	1958 Nov 13 2115	Loki Dart	-	II9.08F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W23	2436521.41	1958 Nov 13 2145	Loki Dart	-	II9.09F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W24	2436525.25	1958 Nov 17 1800	Loki Dart	-	II9.10F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W25	2436527.27	1958 Nov 19 1830	Loki Dart	-	II9.11F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-W26	2436527.59	1958 Nov 20 0214	Loki Dart	-	II9.12F	0.000	SUI	SS	-	SUI/	CR/Plasma	WDCRF	-	-
1958-A148	2436527.64	1958 Nov 20 0327	Loki Dart	-	II9.13F	0.000	SUI	SF	U	SUI/	CR/Plasma	IGY	FC	-
1958-A149	2436527.68	1958 Nov 20 0425	Loki Dart	-	II9.14F	0.000	SUI	SF	U	SUI/	CR/Plasma	WDCRF	-	-
1959-W03	2436611.46	1959 Feb 11 2300	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1959-A58	2436660.79	1959 Apr 2 0700	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1959-A170	2436850.33	1959 Oct 8 2000	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1959-W05	2436854.50	1959 Oct 13	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W06	2436855.50	1959 Oct 14	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W07	2436861.50	1959 Oct 20	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-A211	2436861.50	1959 Oct 20	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W08	2436862.50	1959 Oct 21	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-A212	2436862.50	1959 Oct 21	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W09	2436867.50	1959 Oct 26	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W10	2436868.50	1959 Oct 27	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W11	2436884.50	1959 Nov 12	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1959-W12	2436890.50	1959 Nov 18	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A310	2436948.50	1960 Jan 15	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A311	2436954.50	1960 Jan 21	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-W68	2436958.50	1960 Jan 25	Loki	-	Loki II	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A312	2436959.50	1960 Jan 26	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A313	2436961.50	1960 Jan 28	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A314	2436966.50	1960 Feb 2	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-A315	2436975.50	1960 Feb 11	Loki	-	Loki I	0.000	PMR	SS	-	PMR/	Aeron	MoWxRev88,187	-	-
1960-W46	2437129.28	1960 Jul 13 1839	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W47	2437129.30	1960 Jul 13 1915	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W48	2437155.21	1960 Aug 8 1701	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W49	2437155.22	1960 Aug 8 1720	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W50	2437158.12	1960 Aug 11 1500	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W51	2437158.17	1960 Aug 11 1600	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W52	2437159.06	1960 Aug 12 1330	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W53	2437159.10	1960 Aug 12 1430	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W54	2437159.15	1960 Aug 12 1530	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W55	2437159.20	1960 Aug 12 1645	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W56	2437162.25	1960 Aug 15 1800	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W57	2437162.26	1960 Aug 15 1820	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W58	2437166.21	1960 Aug 19 1700	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-W59	2437166.22	1960 Aug 19 1720	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W60	2437169.18	1960 Aug 22 1626	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W61	2437169.20	1960 Aug 22 1650	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W62	2437171.26	1960 Aug 24 1812	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W63	2437171.29	1960 Aug 24 1856	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W64	2437172.13	1960 Aug 25 1503	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W65	2437172.14	1960 Aug 25 1520	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W66	2437172.15	1960 Aug 25 1540	Loki	-	-	0.000	SRDL	SS	-	SRDL/Lowenthal	Aeron	SR2,1049	-	-
1960-W25	2437219.51	1960 Oct 12 0015	Loki Dart	?	-	0.000	AWS?	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1960-W26	2437220.53	1960 Oct 13 0045	Loki Dart	?	-	0.000	US?	SS	-	US/	Aeron	WDCRF	-	-
1960-W27	2437233.49	1960 Oct 25 2342	Loki Dart	?	-	0.000	AWS?	SS	-	AFCRL/	Aeron	WDCRF	-	-
1960-W28	2437235.46	1960 Oct 27 2305	Loki Dart	?	-	0.000	AWS?	SS	-	AFCRL/	Aeron	WDCRF	-	-
1960-W39	2437239.46	1960 Oct 31 2300:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1960-W41	2437256.42	1960 Nov 17 2212	Loki Dart	?	-	0.000	AWS?	SS	-	AFCRL/	Aeron	WDCRF	-	-
1960-W42	2437259.95	1960 Nov 21 1050	Loki Dart	?	-	0.000	AWS?	SS	-	AFCRL/	Aeron	WDCRF	-	-
1961-A05	2437299.50	1961 Jan	Loki Dart	-	-	0.000	SMSA/WSMR	SF	U	WSMR/	Aeron	FC	-	-
1961-A06	2437299.50	1961 Jan	Loki Dart	-	-	0.000	SMSA/WSMR	SF	U	WSMR/	Aeron	FC	-	-
1961-W03	2437317.22	1961 Jan 17 1715	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-A23	2437317.25	1961 Jan 17 1804	Loki Dart	?	-	0.000	PMR	SS	-	USN/	Aeron	WDCRF	-	-
1961-A26	2437317.60	1961 Jan 18 0231	Loki Dart	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1961-A28	2437325.58	1961 Jan 26 0157	Loki Dart	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1961-A29	2437326.47	1961 Jan 26 2320	Loki Dart	?	-	0.000	USN?	SS	-	PMR/	Aeron	WDCRF	-	-
1961-W05	2437332.01	1961 Feb 1 1219	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W06	2437347.28	1961 Feb 16 1838	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W07	2437376.11	1961 Mar 17 1445	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W08	2437390.11	1961 Mar 31 1443	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W09	2437400.42	1961 Apr 10 2210	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W10	2437409.49	1961 Apr 19 2345	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W11	2437410.10	1961 Apr 20 1430	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W12	2437424.41	1961 May 4 2147	Loki Dart	?	-	0.000	US?	SS	-	WSMR/	Aeron	WDCRF	-	-
1961-W13	2437424.48	1961 May 4 2325	Loki Dart	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1961-W40	2437467.35	1961 Jun 16 2018:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1961-W41	2437467.41	1961 Jun 16 2153:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-A16	2437701.37	1962 Feb 5 2059	Loki Dart	?	-	0.000	AWS?	SS	-	USAF/	Aeron	WDCRF	-	-
1962-W37	2437950.38	1962 Oct 12 2101:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W38	2437950.40	1962 Oct 12 2132:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W39	2437950.44	1962 Oct 12 2238:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W40	2437950.46	1962 Oct 12 2309:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W41	2437950.51	1962 Oct 13 0013:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W42	2437950.56	1962 Oct 13 0131:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W43	2437950.57	1962 Oct 13 0136:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W44	2437950.59	1962 Oct 13 0214:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W45	2437950.61	1962 Oct 13 0244:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W46	2437950.65	1962 Oct 13 0335:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1962-W47	2437950.66	1962 Oct 13 0352:00	Loki Dart	?	-	0.000	AWS	SU	-	USAF/	Aeron	WDCRF	-	-
1964-M150	2438425.50	1964 Jan 31	Loki Dart	-	HASP II	0.000	PMR	SS	-	NOL/	Aeron	PMRHist64	-	-
1964-M152	2438663.50	1964 Sep 25	Judi-Dart	-	HASP/JUDI	0.000	PMR	SS	-	PMR/	Aeron	PMRHist64	-	-
1964-W06	2438431.29	1964 Feb 5 1900	Loki Dart	-	-	0.000	AWS	SS	-	SAMSO/?	Aeron	SaltLakeTrib640206	-	-
1964-W07	2438431.44	1964 Feb 5 2230	Loki Dart	-	-	0.000	AWS	SS	-	SAMSO/?	Aeron	DeseretNews	SaltLakeTrib640206	-
1964-Y11	2438473.11	1964 Mar 18 1436	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	SP-4005	-
1964-W41	2438590.79	1964 Jul 14 0654	Judi-Dart	-	-	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	SR6,410	-
1964-W42	2438591.91	1964 Jul 15 0955	Judi-Dart	-	-	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W44	2438592.88	1964 Jul 16 0910	Judi-Dart	-	-	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W60	2438626.75	1964 Aug 19 0601	Judi-Dart	-	-	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W55	2438618.27	1964 Aug 10 1830:00	Loki Dart	?	-	0.000	AWS	SS	-	ETAC/	Aeron	WDCRF	JAppMet5,308	-
1964-W56	2438620.29	1964 Aug 12 1852:00	Loki Dart	?	-	0.000	AWS	SS	-	ETAC/	Aeron	WDCRF	JAppMet5,308	-
1964-W57	2438625.27	1964 Aug 17 1834:00	Loki Dart	?	-	0.000	AWS	SS	-	ETAC/	Aeron	WDCRF	JAppMet5,308	-
1964-W61	2438627.30	1964 Aug 19 1907:00	Loki Dart	?	-	0.000	AWS	SS	-	ETAC/	Aeron	WDCRF	JAppMet5,308	-
1964-W63	2438627.50	1964 Aug 20	Judi-Dart	-	-	0.000	AWS?	SS	-	WSMR/	Aeron	Morrow	-	-
1964-W64	2438627.50	1964 Aug 20	Judi-Dart	-	-	0.000	AWS?	SS	-	WSMR/	Aeron	Morrow	-	-
1964-W75	2438655.50	1964 Sep 17	Judi-Dart	-	-	0.000	AWS?	SS	-	WSMR/	Aeron	Morrow	-	-
1964-W129	2438690.08	1964 Oct 21 1358	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1964-W105	2438709.50	1964 Nov 10	Judi-Dart	-	-	0.000	AWS?	SS	-	WSMR/	Aeron	Morrow	-	-
1964-W130	2438718.09	1964 Nov 18 1408	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1964-W131	2438730.59	1964 Dec 1 0215	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1964-W117	2438731.50	1964 Dec 2	Judi-Dart	-	-	0.000	AWS?	SS	-	WSMR/	Aeron	Morrow	-	-
1964-W119	2438734.79	1964 Dec 5 0655	Judi-Dart	-	TERLS-15	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W123	2438744.77	1964 Dec 15 0630	Judi-Dart	-	TERLS-16	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W124	2438745.82	1964 Dec 16 0738	Judi-Dart	-	TERLS-17	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1964-W132	2438746.04	1964 Dec 16 1303	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W07	2438772.96	1965 Jan 12 1059	Judi-Dart	-	TERLS-18	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W08	2438773.93	1965 Jan 13 1015	Judi-Dart	-	TERLS-19	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W207	2438774.09	1965 Jan 13 1410	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W17	2438794.82	1965 Feb 3 0739	Judi-Dart	-	TERLS-20	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W208	2438809.06	1965 Feb 17 1325	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W243	2438830.50	1965 Mar 11	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W244	2438836.50	1965 Mar 17	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W43	2438836.79	1965 Mar 17 0655	Judi-Dart	-	TERLS-21	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W209	2438837.23	1965 Mar 17 1732	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W245	2438838.50	1965 Mar 19	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W246	2438841.50	1965 Mar 22	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W247	2438844.50	1965 Mar 25	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W248	2438847.50	1965 Mar 28	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W249	2438858.50	1965 Apr 8	Loki Dart	-	HASP	0.000	WFF	SS	-	ESSA/Finger	Aeron	TM-X-1346	-	-
1965-W69	2438899.79	1965 May 19 0704	Judi-Dart	-	TERLS-24?	0.000	ISRO	SS	-	IMDP/Sikdar	Aeron	WDCRF	-	-
1965-W81	2438927.79	1965 Jun 16 0704	Judi-Dart	-	TERLS-25	0.000	ISRO	SS	-	IMDP/Sikdar	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-W100	2438962.62	1965 Jul 21 0250	Judi-Dart	-	TERLS-26	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W118	2438990.80	1965 Aug 18 0710	Judi-Dart	-	TERLS-27	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W229	2439012.41	1965 Sep 8 2145	Judi-Dart	-	EXAMETNET J65-01	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W230	2439012.46	1965 Sep 8 2307	Judi-Dart	-	EXAMETNET J65-02	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W231	2439012.53	1965 Sep 9 0047	Judi-Dart	-	EXAMETNET J65-03	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W232	2439012.57	1965 Sep 9 0141	Judi-Dart	-	EXAMETNET J65-04	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W233	2439012.60	1965 Sep 9 0225	Judi-Dart	-	EXAMETNET J65-05	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W234	2439012.71	1965 Sep 9 0501	Judi-Dart	-	EXAMETNET J65-06	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W235	2439012.84	1965 Sep 9 0805	Judi-Dart	-	EXAMETNET J65-07	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W282	2439013.00	1965 Sep 9 1201	Judi-Dart	-	EXAMETNET J65-08	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W266	2439013.19	1965 Sep 9 1630	Judi-Dart	-	EXAMETNET J65-09	0.000	WFF	SS	-	NOL/WFF/	Meteo	SP-175	-	-
1965-W237	2439013.20	1965 Sep 9 1648	Judi-Dart	-	EXAMETNET J65-10	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W238	2439013.44	1965 Sep 9 2234	Judi-Dart	-	EXAMETNET J65-11	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W239	2439013.55	1965 Sep 10 0115	Judi-Dart	-	EXAMETNET J65-12	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W240	2439013.71	1965 Sep 10 0500	Judi-Dart	-	EXAMETNET J65-13	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W241	2439013.83	1965 Sep 10 0800	Judi-Dart	-	EXAMETNET J65-14	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W242	2439014.03	1965 Sep 10 1238	Judi-Dart	-	EXAMETNET J65-15	0.000	WFF	SS	-	NOL/WFF/	Meteo	TM-X-1298	-	-
1965-W133	2439018.90	1965 Sep 15 0931	Judi-Dart	-	TERLS-28	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W269	2439039.29	1965 Oct 5 1851	Judi-Dart	-	EXAMETNET J65-16	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W270	2439042.32	1965 Oct 8 1934	Judi-Dart	-	EXAMETNET J65-17	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W271	2439046.28	1965 Oct 12 1849	Judi-Dart	-	EXAMETNET J65-18	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W272	2439048.31	1965 Oct 14 1929	Judi-Dart	-	EXAMETNET J65-19	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W273	2439049.34	1965 Oct 15 2016	Judi-Dart	-	EXAMETNET J65-20	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W274	2439053.27	1965 Oct 19 1827	Judi-Dart	-	EXAMETNET J65-21	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W149	2439053.80	1965 Oct 20 0705	Judi-Dart	-	TERLS-29	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W280	2439054.04	1965 Oct 20 1258	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W275	2439054.27	1965 Oct 20 1832	Judi-Dart	-	EXAMETNET J65-22	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W276	2439061.48	1965 Oct 27 2331	Judi-Dart	-	EXAMETNET J65-23	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W277	2439063.28	1965 Oct 29 1845	Judi-Dart	-	EXAMETNET J65-24	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W278	2439068.31	1965 Nov 3 1927	Judi-Dart	-	EXAMETNET J65-25	0.000	WFF	SS	-	WFF/	Meteo	SP-175	-	-
1965-W163	2439081.86	1965 Nov 17 0836	Judi-Dart	-	TERLS-30	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W281	2439082.01	1965 Nov 17 1210	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/	Aeron	SR8-871	-	-
1965-W165	2439082.52	1965 Nov 18 0034:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1965-W166	2439082.68	1965 Nov 18 0415:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1965-W167	2439082.74	1965 Nov 18 0545:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1965-W168	2439082.85	1965 Nov 18 0830:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1965-W169	2439082.92	1965 Nov 18 1008:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/	Aeron	WDCRF	-	-
1965-W170	2439082.98	1965 Nov 18 1134:00	Loki Dart	?	-	0.000	AWS?	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-W171	2439087.60	1965 Nov 23 0227	Judi-Dart	-	TERLS-31	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W200	2439109.65	1965 Dec 15 0333	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1965-W201	2439109.82	1965 Dec 15 0735	Judi-Dart	-	TERLS-32	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W202	2439111.77	1965 Dec 17 0636	Judi-Dart	-	TERLS-33	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1965-W204	2439112.78	1965 Dec 18 0647	Judi-Dart	-	TERLS-34	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W15	2439138.02	1966 Jan 12 1230	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	SR8-871	WDCRF	-
1966-W16	2439138.12	1966 Jan 12 1500	Judi-Dart	-	EXAMETNET N01	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-175	WDCRF	-
1966-W14	2439138.14	1966 Jan 12 1523	Judi-Dart	-	EXAMETNET W01	0.000	WFF	SS	-	WFF/?	Aeron	SP-175	-	-
1966-W17	2439140.50	1966 Jan 15 0000	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W22	2439144.90	1966 Jan 19 0930	Judi-Dart	-	TERLS-36	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W26	2439152.01	1966 Jan 26 1218	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	SR8-871	WDCRF	-
1966-W27	2439152.50	1966 Jan 27 0000	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A25	2439158.15	1966 Feb 1 1541	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W41	2439159.17	1966 Feb 2 1600	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W46	2439159.51	1966 Feb 3 0009	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W49	2439160.33	1966 Feb 3 1959	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W52	2439160.42	1966 Feb 3 2200	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W53	2439160.46	1966 Feb 3 2300	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W55	2439160.80	1966 Feb 4 0705	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W59	2439161.14	1966 Feb 4 1526	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W61	2439161.23	1966 Feb 4 1725	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W62	2439161.25	1966 Feb 4 1805	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W71	2439164.25	1966 Feb 7 1800	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W72	2439164.43	1966 Feb 7 2219	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A29	2439165.20	1966 Feb 8 1641	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W74	2439165.23	1966 Feb 8 1732	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W83	2439166.15	1966 Feb 9 1541	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W89	2439166.79	1966 Feb 10 0654	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A35	2439167.12	1966 Feb 10 1500	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W97	2439167.30	1966 Feb 10 1915	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W100	2439167.46	1966 Feb 10 2300	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W108	2439168.22	1966 Feb 11 1713	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W109	2439168.26	1966 Feb 11 1811	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A38	2439168.29	1966 Feb 11 1857	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W119	2439171.27	1966 Feb 14 1827	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W122	2439171.52	1966 Feb 15 0023	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W124	2439172.33	1966 Feb 15 2000	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W125	2439172.65	1966 Feb 16 0330	Judi-Dart	-	TERLS-37	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W126	2439172.69	1966 Feb 16 0430	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	SR8-871	SR10-167	-
1966-W127	2439173.07	1966 Feb 16 1336	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	SR8-871	SR10-167	-
1966-W484	2439173.09	1966 Feb 16 1405	Judi-Dart	-	EXAMETNET N02	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W132	2439173.25	1966 Feb 16 1805	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W135	2439173.52	1966 Feb 17 0032	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A39	2439174.12	1966 Feb 17 1500	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W136	2439174.20	1966 Feb 17 1651	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W137	2439174.26	1966 Feb 17 1815	Judi-Dart	-	EXAMETNET W02	0.000	MRN	SS	-	USAF/	Meteo	MRN54	SP-175	-
1966-W139	2439174.38	1966 Feb 17 2104	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W140	2439174.53	1966 Feb 18 0045	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W141	2439174.73	1966 Feb 18 0535	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W143	2439175.12	1966 Feb 18 1500	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W144	2439175.22	1966 Feb 18 1720	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W146	2439175.25	1966 Feb 18 1805	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W148	2439175.31	1966 Feb 18 1920	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W149	2439175.33	1966 Feb 18 1950	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W163	2439178.15	1966 Feb 21 1530	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W173	2439180.13	1966 Feb 23 1504	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-A42	2439180.16	1966 Feb 23 1557	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W175	2439180.25	1966 Feb 23 1805	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W176	2439180.26	1966 Feb 23 1817	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W181	2439180.50	1966 Feb 24 0006	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W189	2439182.32	1966 Feb 25 1941	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W213	2439185.20	1966 Feb 28 1651	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W214	2439185.25	1966 Feb 28 1800	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	MRN54	-	-
1966-W217	2439187.16	1966 Mar 2 1548	Judi-Dart	-	EXAMETNET N03	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	WDCRF	SP-175	-
1966-W493	2439187.30	1966 Mar 2 1915	Judi-Dart	-	EXAMETNET W03	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W224	2439201.01	1966 Mar 16 1210	Judi-Dart	-	TERLS-38	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W225	2439201.12	1966 Mar 16 1500	Judi-Dart	-	EXAMETNET N04	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	WDCRF	SP-175	-
1966-W226	2439201.13	1966 Mar 16 1510:00	Judi-Dart	-	SUPARCO 23	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	SR8-871	WDCRF	-
1966-W494	2439201.18	1966 Mar 16 1623	Judi-Dart	-	EXAMETNET W04	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W227	2439209.74	1966 Mar 25 0539:00	Judi-Dart	-	SUPARCO 24	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	SR8-871	WDCRF	-
1966-W495	2439215.17	1966 Mar 30 1603	Judi-Dart	-	EXAMETNET W05	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W232	2439228.81	1966 Apr 13 0730	Judi-Dart	-	TERLS-43	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W233	2439229.04	1966 Apr 13 1257:00	Judi-Dart	?	SUPARCO-025/66	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1966-W485	2439229.16	1966 Apr 13 1547	Judi-Dart	-	EXAMETNET N05	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W496	2439230.13	1966 Apr 14 1509	Judi-Dart	-	EXAMETNET W06	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-M115	2439235.50	1966 Apr 20	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M116	2439238.17	1966 Apr 22 1606	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-67-0659	-	-
1966-W238	2439243.41	1966 Apr 27 2154	Judi-Dart	-	EXAMETNET C01	0.000	CNIE	SS	-	CNIE/	Meteo	SP-175	WI-PR-66-21	-
1966-W497	2439247.58	1966 May 2 0153	Judi-Dart	-	EXAMETNET W07	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W248	2439247.58	1966 May 2 0155	Judi-Dart	-	EXAMETNET N06	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	WDCRF	SP-175	-
1966-W257	2439264.09	1966 May 18 1415:00	Judi-Dart	?	SUPARCO-026/66	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1966-W258	2439264.16	1966 May 18 1550	Judi-Dart	-	EXAMETNET N07	0.000	INPE	SS	-	INPE/DeMendonca	Aeron	WDCRF	SP-175	-
1966-W259	2439264.28	1966 May 18 1842:00	Judi-Dart	-	EXAMETNET C02	0.000	CONAE	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-W260	2439264.35	1966 May 18 2022	Judi-Dart	-	EXAMETNET C03	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1966-W498	2439265.21	1966 May 19 1701	Judi-Dart	-	EXAMETNET W08	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W261	2439270.46	1966 May 24 2300:00	Loki Dart	?	SR-031	0.000	US?	SU	-	WSMR/?	Aeron	WDCRF	-	-
1966-M117	2439271.12	1966 May 25 1500	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M118	2439272.28	1966 May 26 1838	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M119	2439273.11	1966 May 27 1445	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W467	2439276.50	1966 Jun	Loki Dart	-	HE test	0.000	ASL	SU	-	ASL/	Test	ECOM-5105	-	-
1966-W468	2439276.50	1966 Jun	Loki Dart	-	HE test	0.000	ASL	SU	-	ASL/	Test	ECOM-5105	-	-
1966-W469	2439276.50	1966 Jun	Loki Dart	-	HE test	0.000	ASL	SU	-	ASL/	Test	ECOM-5105	-	-
1966-W275	2439292.09	1966 Jun 15 1405:00	Judi-Dart	?	SUPARCO-027/66	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1966-W276	2439292.32	1966 Jun 15 1943:00	Judi-Dart	-	EXAMETNET C04	0.000	CONAE	SU	-	CONAE/Lichtenstein	Aeron	SP-175	WDCRF	-
1966-W278	2439294.54	1966 Jun 18 0055:00	Loki Dart	?	NA-HESTER	0.000	AWS	SU	-	AFCRL/	Aeron	WDCRF	-	-
1966-A78	2439294.94	1966 Jun 18 1028:00	Loki Dart	?	NA-JOHANNA	0.000	AWS	SU	-	AFCRL/	Aeron	WDCRF	-	-
1966-M120	2439313.18	1966 Jul 6 1615	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M121	2439315.19	1966 Jul 8 1630	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W470	2439315.23	1966 Jul 8 1725	Loki Dart	-	HE test	0.000	ASL	SU	-	ASL/	Test	ECOM-5105	-	-
1966-W471	2439315.32	1966 Jul 8 1936	Loki Dart	-	HE test	0.000	ASL	SU	-	ASL/	Test	ECOM-5105	-	-
1966-A86	2439319.76	1966 Jul 13 0620	Judi-Dart	-	TERLS-45	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1966-W290	2439319.81	1966 Jul 13 0730:00	Judi-Dart	?	SUPARCO-028/66	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1966-W291	2439320.45	1966 Jul 13 2244:00	Judi-Dart	-	EXAMETNET C05	0.000	CONAE	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-W292	2439320.55	1966 Jul 14 0118:00	Judi-Dart	?	EXAMETNET C06?	0.000	CONAE	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1966-W293	2439321.14	1966 Jul 14 1517:00	Judi-Dart	-	EXAMETNET C07	0.000	CONAE	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-W472	2439344.40	1966 Aug 6 2140?	Loki Dart	-	HE motor	0.000	ASL	SF	U	ASL/	Aeron	ECOM-5105	-	-
1966-W473	2439344.49	1966 Aug 6 2340?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W500	2439344.82	1966 Aug 7 0736	Judi-Dart	-	EXAMETNET W13	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W474	2439344.91	1966 Aug 7 0945?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W475	2439344.99	1966 Aug 7 1140?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W476	2439345.40	1966 Aug 7 2140?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W477	2439345.49	1966 Aug 7 2340?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W478	2439345.91	1966 Aug 8 0950?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W479	2439345.99	1966 Aug 8 1140?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W480	2439346.40	1966 Aug 8 2140?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-W481	2439346.49	1966 Aug 8 2340?	Loki Dart	-	HE motor	0.000	ASL	SS	-	ASL/	Aeron	ECOM-5105	-	-
1966-Y34	2439355.19	1966 Aug 17 1630	Judi-Dart	-	EXAMETNET C08	0.000	CONAE	SS	-	CONAE/	Aeron	WDCRF	SP-175	-
1966-W306	2439355.10	1966 Aug 17 1430:00	Judi-Dart	?	SUPARCO-029/66	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1966-W334	2439377.28	1966 Sep 8 1841	Judi-Dart	-	EXAMETNET C09	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-W335	2439383.30	1966 Sep 14 1915	Judi-Dart	-	EXAMETNET C10	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-M122	2439389.50	1966 Sep 21	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M123	2439389.50	1966 Sep 21	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W337	2439390.19	1966 Sep 21 1640	Judi-Dart	-	EXAMETNET C11	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-M124	2439390.50	1966 Sep 22	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W483	2439404.53	1966 Oct 6 0040	Judi-Dart	-	EXAMETNET C12?	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	SP-175	-	-
1966-W501	2439405.11	1966 Oct 6 1440	Judi-Dart	-	EXAMETNET W19	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W350	2439411.10	1966 Oct 12 1420:00	Judi-Dart	?	SUPARCO-031/66	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1966-W486	2439411.12	1966 Oct 12 1500	Judi-Dart	-	EXAMETNET N15	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-175	-	-
1966-W502	2439412.32	1966 Oct 13 1938	Judi-Dart	-	EXAMETNET W20	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1966-W352	2439412.48	1966 Oct 13 2330	Judi-Dart	-	EXAMETNET C13?	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1966-W465	2439413.08	1966 Oct 14 1355	Judi-Dart	-	INTA H-6601	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	ActaA61,534	-
1966-M132	2439419.96	1966 Oct 21 1100	Judi-Dart	-	INTA H-6602	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M133	2439424.99	1966 Oct 26 1140	Judi-Dart	-	INTA H-6603	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M134	2439431.95	1966 Nov 2 1054	Judi-Dart	-	INTA H-6604	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-M135	2439438.99	1966 Nov 9 1139	Judi-Dart	-	INTA H-6605	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M125	2439444.29	1966 Nov 14 1900	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M126	2439444.34	1966 Nov 14 2007	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M127	2439445.14	1966 Nov 15 1520	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-M128	2439444.50	1966 Nov 15	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1966-W371	2439446.08	1966 Nov 16 1401:00	Judi-Dart	?	SUPARCO-032/66	0.000	SUPA	SU	-	SUPA/Jafri,Purcell	Aeron	WDCRF	-	-
1966-W372	2439446.15	1966 Nov 16 1530	Judi-Dart	-	EXAMETNET C14?	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-M136	2439447.96	1966 Nov 18 1109	Judi-Dart	-	INTA H-6606	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M137	2439452.96	1966 Nov 23 1105	Judi-Dart	-	INTA H-6607	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M138	2439461.96	1966 Dec 2 1106	Judi-Dart	-	INTA H-6608	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M139	2439466.96	1966 Dec 7 1100	Judi-Dart	-	INTA H-6609	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-M140	2439468.98	1966 Dec 9 1135	Judi-Dart	-	INTA H-6610	0.000	INTA	SU	-	INTA/NASA/	Met	ElAren	-	-
1966-W385	2439469.65	1966 Dec 10 0337:00	Loki Dart	?	-	0.000	MRN	SU	-	USAF/	Aeron	WDCRF	-	-
1966-W388	2439469.77	1966 Dec 10 0628:00	Loki Dart	?	-	0.000	MRN	SU	-	USAF/	Aeron	WDCRF	-	-
1966-W390	2439469.77	1966 Dec 10 0630:00	Loki Dart	?	-	0.000	MRN	SU	-	USAF/	Aeron	WDCRF	-	-
1966-W394	2439474.09	1966 Dec 14 1407	Judi-Dart	-	EXAMETNET C14A?	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1966-W395	2439474.35	1966 Dec 14 2025	Judi-Dart	-	EXAMETNET C15	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-175	-
1966-W503	2439474.36	1966 Dec 14 2039	Judi-Dart	-	EXAMETNET W22	0.000	WFF	SS	-	WFF/	Aeron	SP-175	-	-
1967-W25	2439509.09	1967 Jan 18 1415	Judi-Dart	-	EXAMETNET C16	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W300	2439509.12	1967 Jan 18 1500	Judi-Dart	-	EXAMETNET N17	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-M134	2439521.21	1967 Jan 30 1703	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M135	2439522.17	1967 Jan 31 1608	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W301	2439523.12	1967 Feb 1 1500	Judi-Dart	-	EXAMETNET N18	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W316	2439531.13	1967 Feb 9 1501	Judi-Dart	-	EXAMETNET W26	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W48	2439537.08	1967 Feb 15 1401	Judi-Dart	-	EXAMETNET C17	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W302	2439537.12	1967 Feb 15 1500	Judi-Dart	-	EXAMETNET N19	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W303	2439544.12	1967 Feb 22 1500	Judi-Dart	-	EXAMETNET N20	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-M136	2439549.12	1967 Feb 27 1500	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M137	2439550.19	1967 Feb 28 1630	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W304	2439551.12	1967 Mar 1 1500	Judi-Dart	-	EXAMETNET N21	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W317	2439553.20	1967 Mar 3 1648	Judi-Dart	-	EXAMETNET W28	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-A63	2439564.97	1967 Mar 15 1110	Judi-Dart	-	EXAMETNET C18	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1967-W318	2439566.10	1967 Mar 16 1429	Judi-Dart	-	EXAMETNET W30	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W305	2439572.12	1967 Mar 22 1500	Judi-Dart	-	EXAMETNET N22	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W319	2439572.28	1967 Mar 22 1845	Judi-Dart	-	EXAMETNET W31	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W306	2439579.19	1967 Mar 29 1627	Judi-Dart	-	EXAMETNET N23	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W320	2439579.33	1967 Mar 29 1952	Judi-Dart	-	EXAMETNET W32	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W94	2439588.89	1967 Apr 8 0925:00	Loki Dart	?	-	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1967-M138	2439591.50	1967 Apr 11	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M139	2439592.50	1967 Apr 12	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W97	2439593.12	1967 Apr 12 1446	Judi-Dart	-	EXAMETNET C19	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-M140	2439620.10	1967 May 9 1421	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M141	2439619.50	1967 May 9	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M142	2439623.14	1967 May 12 1527	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M143	2439623.19	1967 May 12 1627	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-M144	2439628.97	1967 May 18 1115	Loki Dart	-	-	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0622	-	-
1967-W307	2439656.13	1967 Jun 14 1511	Judi-Dart	-	EXAMETNET N24	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W326	2439658.50	1967 Jun 17	Loki Dart PWN-8B	-	JD-07-14	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W327	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-15	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-A153	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-16	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-A154	2439659.50	1967 Jun 18	Loki Dart PWN-8B	-	JD-07-17	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W308	2439677.12	1967 Jul 5 1500	Judi-Dart	-	EXAMETNET N25	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W309	2439684.21	1967 Jul 12 1658	Judi-Dart	-	EXAMETNET N26	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W151	2439684.21	1967 Jul 12 1702	Judi-Dart	-	EXAMETNET C22	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1967-A155	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-01	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W328	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-02	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-A156	2439700.50	1967 Jul 29	Loki Dart PWN-8B	-	LD-07-03	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W310	2439705.12	1967 Aug 2 1500	Judi-Dart	-	EXAMETNET N27	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W167	2439719.10	1967 Aug 16 1425	Judi-Dart	-	EXAMETNET C23	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W311	2439719.12	1967 Aug 16 1500	Judi-Dart	-	EXAMETNET N28	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W312	2439747.12	1967 Sep 13 1500	Judi-Dart	-	EXAMETNET N29	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W178	2439747.35	1967 Sep 13 2030	Judi-Dart	-	EXAMETNET C24	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W193	2439776.50	1967 Oct 13	Loki Dart	-	162	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W195	2439782.38	1967 Oct 18 2103	Judi-Dart	-	EXAMETNET C25	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W196	2439782.50	1967 Oct 19	Loki Dart	-	173	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W198	2439783.50	1967 Oct 20	Loki Dart	-	175	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W313	2439789.19	1967 Oct 25 1630	Judi-Dart	-	EXAMETNET N30	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W211	2439796.50	1967 Nov 2	Loki Dart	-	182	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W213	2439802.50	1967 Nov 8	Loki Dart	-	187 R114	0.000	WSMR	SS	-	WSMR/	Aeron	CR-1529	-	-
1967-W314	2439810.08	1967 Nov 15 1400	Judi-Dart	-	EXAMETNET N31	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W323	2439810.24	1967 Nov 15 1744	Judi-Dart	-	EXAMETNET W62	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W220	2439814.72	1967 Nov 20 0515	Judi-Dart	-	TERLS-53	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1967-W226	2439823.59	1967 Nov 29 0210	Judi-Dart	?	SUPARCO-033/67	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1967-W324	2439831.32	1967 Dec 6 1945	Judi-Dart	-	EXAMETNET W65	0.000	WFF	SS	-	WFF/	Aeron	SP-176	-	-
1967-W236	2439836.88	1967 Dec 12 0913:00	Judi-Dart	?	SUPARCO-034/67	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1967-W237	2439838.08	1967 Dec 13 1355	Judi-Dart	-	EXAMETNET C27	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-176	-
1967-W315	2439838.12	1967 Dec 13 1500	Judi-Dart	-	EXAMETNET N32	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-176	-	-
1967-W329	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-1	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W330	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-2	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W331	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-3	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W332	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-4	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W333	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-5	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W334	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-6	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W335	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-7	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W336	2439841.50	1967 Dec 17	Loki Dart PWN-8B	-	LD-12-17-8	0.000	AFCRL	SS	-	AFCRL/SDCO/	Test	AFCRL-68-0132	-	-
1967-W239	2439844.90	1967 Dec 20 0939	Judi-Dart	-	TERLS-55	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W18	2439855.50	1968 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W19	2439855.50	1968 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W20	2439855.50	1968 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W21	2439855.50	1968 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W22	2439855.50	1968 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-M45	2439873.00	1968 Jan 17 1157	Judi-Dart	-	INTA H-6801	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M46	2439879.97	1968 Jan 24 1114	Judi-Dart	-	INTA H-6802	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M47	2439886.97	1968 Jan 31 1118	Judi-Dart	-	INTA H-6803	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-W299	2439873.12	1968 Jan 17 1500	Judi-Dart	-	EXAMETNET N33	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W301	2439887.13	1968 Jan 31 1512	Judi-Dart	-	EXAMETNET N34	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W44	2439888.50	1968 Feb 2	Judi-Dart	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	SP-4010	-	-
1968-W316	2439894.20	1968 Feb 7 1644	Judi-Dart	-	EXAMETNET W 71	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W48	2439901.06	1968 Feb 14 1333	Judi-Dart	-	EXAMETNET C29	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-M48	2439901.18	1968 Feb 14 1622	Judi-Dart	-	INTA H-6804	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M49	2439908.90	1968 Feb 22 0938	Judi-Dart	-	INTA H-6805	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M50	2439914.98	1968 Feb 28 1135	Judi-Dart	-	INTA H-6806	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M51	2439928.98	1968 Mar 13 1134	Judi-Dart	-	INTA H-6807	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-W70	2439936.17	1968 Mar 20 1600:00	Judi-Dart	-	EXAMETNET C31	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W82	2439950.07	1968 Apr 03 1339:00	Judi-Dart	-	EXAMETNET C33	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W302	2439964.12	1968 Apr 17 1500	Judi-Dart	-	EXAMETNET N35	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W89	2439964.18	1968 Apr 17 1626:00	Judi-Dart	-	EXAMETNET C35	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W326	2439964.29	1968 Apr 17 1851	Judi-Dart	-	EXAMETNET W 81	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W327	2439971.17	1968 Apr 24 1612	Judi-Dart	-	EXAMETNET W 82	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W303	2439978.12	1968 May 1 1500	Judi-Dart	-	EXAMETNET N36	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W328	2439979.12	1968 May 2 1459	Judi-Dart	-	EXAMETNET W 83	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W99	2439983.09	1968 May 6 1415	Loki Dart	-	Cal for Super Loki	0.000	MSFC	SS	-	MSFC/?	Aeron	CR-61238	-	-
1968-W100	2439983.15	1968 May 6 1530	Loki Dart	-	Cal for Super Loki	0.000	MSFC	SS	-	MSFC/?	Aeron	CR-61238	-	-
1968-W304	2439992.12	1968 May 15 1500	Judi-Dart	-	EXAMETNET N37	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W103	2439992.33	1968 May 15 1955:00	Judi-Dart	-	EXAMETNET C36	0.000	CONAE/NASA	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-W108	2439997.10	1968 May 20 1430	Loki Dart	-	Cal for Super Loki	0.000	MSFC	SS	-	MSFC/?	Aeron	CR-61238	-	-
1968-W109	2439997.20	1968 May 20 1655	Loki Dart	-	Cal for Super Loki	0.000	MSFC	SS	-	MSFC/?	Aeron	CR-61238	-	-
1968-W305	2440006.12	1968 May 29 1500	Judi-Dart	-	EXAMETNET N38	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W111	2440006.23	1968 May 29 1732	Judi-Dart	-	EXAMETNET C37	0.000	CONAE/NASA	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-W122	2440007.50	1968 Jun	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W306	2440020.13	1968 Jun 12 1502	Judi-Dart	-	EXAMETNET N39	0.000	CNAE	SS	-	INPE/DeMendonca	Aeron	SP-231	-	-
1968-W128	2440034.20	1968 Jun 26 1650:00	Judi-Dart	-	EXAMETNET C39	0.000	CONAE/NASA	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	SP-231	-
1968-W163	2440069.44	1968 Jul 31 2228:00	Judi-Dart	-	EXAMETNET C41	0.000	CONAE/NASA	SU	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W340	2440077.13	1968 Aug 8 1506	Judi-Dart	-	EXAMETNET W 95	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W170	2440097.44	1968 Aug 28 2240:00	Judi-Dart	-	EXAMETNET C43	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	WDCRF	-	-
1968-W177	2440099.50	1968 Sep	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W178	2440099.50	1968 Sep	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-M52	2440103.93	1968 Sep 4 1013	Judi-Dart	-	INTA H-6808	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M53	2440110.92	1968 Sep 11 1000	Judi-Dart	-	INTA H-6809	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-W283	2440111.28	1968 Sep 11 1845	Loki Dart	?	STS	0.000	WSMR	SS	-	WSMR/	Meteo	BT-1040.04	-	-
1968-M54	2440112.97	1968 Sep 13 1120	Judi-Dart	-	INTA H-6810	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M55	2440117.92	1968 Sep 18 1011	Judi-Dart	-	INTA H-6811	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M56	2440124.95	1968 Sep 25 1054	Judi-Dart	-	INTA H-6812	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-W294	2440125.33	1968 Sep 25 1959	Judi-Dart	-	EXAMETNET C45	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1968-M57	2440138.95	1968 Oct 9 1042	Judi-Dart	-	INTA H-6813	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-W216	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W217	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W218	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W219	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W220	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W221	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W222	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W223	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W224	2440129.50	1968 Oct	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W295	2440132.14	1968 Oct 2 1520	Judi-Dart	-	EXAMETNET C46	0.000	CONAE	SS	-	CONAE/Lichtenstein	Aeron	SP-231	-	-
1968-W238	2440160.50	1968 Nov	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W239	2440160.50	1968 Nov	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W240	2440160.50	1968 Nov	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W241	2440160.50	1968 Nov	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W242	2440160.50	1968 Nov	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W359	2440168.16	1968 Nov 7 1551	Loki Dart	-	EXAMETNET W 108	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W354	2440174.16	1968 Nov 13 1552	Loki Dart	-	EXAMETNET W 109	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W355	2440181.16	1968 Nov 20 1556	Loki Dart	-	EXAMETNET W 110	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W356	2440188.18	1968 Nov 27 1626	Loki Dart	-	EXAMETNET W 111	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W259	2440190.50	1968 Dec	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W260	2440190.50	1968 Dec	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W261	2440190.50	1968 Dec	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W262	2440190.50	1968 Dec	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W263	2440190.50	1968 Dec	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1968-W357	2440196.14	1968 Dec 5 1525	Loki Dart	-	EXAMETNET W 112	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1968-W358	2440210.31	1968 Dec 19 1922	Loki Dart	-	EXAMETNET W 114	0.000	WFF	SS	-	WFF/	Meteo	SP-231	-	-
1969-W04	2440221.50	1969 Jan	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W57	2440232.41	1969 Jan 10 2144:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W71	2440236.34	1969 Jan 14 2010	Loki Dart	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-A22	2440239.25	1969 Jan 17 1755:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W96	2440239.32	1969 Jan 17 1933:59	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W101	2440241.99	1969 Jan 20 1148:59	Judi-Dart	-	INTA H-6901	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W111	2440243.21	1969 Jan 21 1655:59	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W116	2440243.29	1969 Jan 21 1901:59	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W117	2440243.96	1969 Jan 22 1056:59	Judi-Dart	-	INTA H-6902	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W124	2440244.21	1969 Jan 22 1700:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W128	2440244.45	1969 Jan 22 2253:59	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W131	2440245.25	1969 Jan 23 1755:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W135	2440245.95	1969 Jan 24 1054:59	Judi-Dart	-	INTA H-6903	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W139	2440246.25	1969 Jan 24 1756:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W151	2440249.78	1969 Jan 28 0649:59	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W152	2440249.86	1969 Jan 28 0837:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W155	2440250.95	1969 Jan 29 1054:59	Judi-Dart	-	INTA H-6904	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W160	2440251.25	1969 Jan 29 1755:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W172	2440252.34	1969 Jan 30 2006:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-A39	2440253.24	1969 Jan 31 1747:00	Judi-Dart	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W176	2440252.50	1969 Feb	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W177	2440252.50	1969 Feb	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	FC	-	-
1969-W215	2440258.93	1969 Feb 6 1023:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W230	2440260.74	1969 Feb 8 0546:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W269	2440267.46	1969 Feb 14 2255:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W280	2440271.71	1969 Feb 19 0456:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W310	2440279.64	1969 Feb 27 0318:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	DSI-5850	-	-
1969-W323	2440281.74	1969 Mar 1 0548:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W346	2440286.62	1969 Mar 6 0248:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W349	2440287.57	1969 Mar 7 0144:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W389	2440294.59	1969 Mar 14 0203:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W399	2440295.59	1969 Mar 15 0203:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-M44	2440299.96	1969 Mar 19 1057	Judi-Dart	-	INTA H-6905	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1969-W428	2440301.67	1969 Mar 21 0358:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W442	2440305.64	1969 Mar 25 0322:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W453	2440307.56	1969 Mar 27 0131:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W457	2440308.51	1969 Mar 28 0021:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-M45	2440308.57	1969 Mar 28 0139	Judi-Dart	-	INTA H-6906	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1969-M46	2440309.55	1969 Mar 29 0105	Judi-Dart	-	INTA H-6907	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1969-W470	2440309.55	1969 Mar 29 0111:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W475	2440312.54	1969 Apr 1 0059:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W519	2440321.61	1969 Apr 10 0240:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W534	2440325.14	1969 Apr 13 1523:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W543	2440326.63	1969 Apr 15 0311:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W547	2440327.97	1969 Apr 16 1113:00	Judi-Dart	-	INTA H-6908	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W594	2440335.60	1969 Apr 24 0222:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W603	2440337.60	1969 Apr 26 0231:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W622	2440341.95	1969 Apr 30 1044:59	Judi-Dart	-	INTA H-6909	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-A78	2440349.12	1969 May 7 1457:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W661	2440349.15	1969 May 7 1538:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W669	2440349.54	1969 May 8 0102:59	Judi-Dart	-	INTA H-6910	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W675	2440351.20	1969 May 9 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W677	2440351.29	1969 May 9 1900	Loki Dart	?	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-W680	2440351.62	1969 May 10 0255:00	Judi-Dart	-	INTA H-6911	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W693	2440354.20	1969 May 12 1645:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W701	2440355.17	1969 May 13 1602:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W704	2440355.95	1969 May 14 1046:59	Judi-Dart	-	INTA H-6912	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W720	2440358.26	1969 May 16 1811:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-M94	2440360.31	1969 May 18 1928	Loki Dart	-	-	0.000	AWS?	SS	-	NASA/?	Aeron	FER-AS505	-	-
1969-W742	2440363.55	1969 May 22 0104:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W754	2440365.29	1969 May 23 1856:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W764	2440368.54	1969 May 27 0053:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W783	2440372.33	1969 May 30 1956:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W784	2440372.50	1969 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/	Meteo	FC	-	-
1969-W794	2440377.20	1969 Jun 4 1644:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W803	2440379.22	1969 Jun 6 1713:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W816	2440383.72	1969 Jun 11 0520	Judi-Dart	-	TERLS-110	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W823	2440384.21	1969 Jun 11 1657:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W843	2440391.20	1969 Jun 18 1648:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W855	2440393.10	1969 Jun 20 1430:00	Judi-Dart	?	SUPARCO	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W885	2440397.76	1969 Jun 25 0612	Judi-Dart	-	TERLS-115	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W901	2440400.20	1969 Jun 27 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W922	2440405.20	1969 Jul 2 1645:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W943	2440412.26	1969 Jul 9 1818:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W953	2440417.10	1969 Jul 14 1431:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	SP-219	-
1969-W956	2440417.16	1969 Jul 14 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W965	2440418.73	1969 Jul 16 0530	Judi-Dart	-	TERLS-116	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W966	2440419.11	1969 Jul 16 1434:00	Judi-Dart	?	SUPARCO	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W968	2440419.13	1969 Jul 16 1511:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	CR-1529	-
1969-W971	2440419.20	1969 Jul 16 1645:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W989	2440425.74	1969 Jul 23 0550	Judi-Dart	-	TERLS-117	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W1011	2440428.23	1969 Jul 25 1733:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-A131	2440432.73	1969 Jul 30 0530	Judi-Dart	-	ISRO 11.34	0.000	ISRO	SS	-	ISRO/Rao	Aeron	WDCRF	-	-
1969-W1022	2440433.11	1969 Jul 30 1445:00	Judi-Dart	?	SUPARCO	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1025	2440433.21	1969 Jul 30 1658:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1035	2440435.28	1969 Aug 1 1837:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1047	2440439.74	1969 Aug 6 0550	Judi-Dart	-	ISRO 11.35	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W1056	2440440.70	1969 Aug 7 0446:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1079	2440447.33	1969 Aug 13 1956:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1083	2440449.10	1969 Aug 15 1430:00	Judi-Dart	?	SUPARCO	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1086	2440449.20	1969 Aug 15 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1096	2440452.20	1969 Aug 18 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1105	2440453.96	1969 Aug 20 1057	Judi-Dart	-	ISRO 11.36	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1969-W1127	2440456.36	1969 Aug 22 2041:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1130	2440459.20	1969 Aug 25 1641:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1148	2440461.22	1969 Aug 27 1715:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1159	2440463.20	1969 Aug 29 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1163	2440464.50	1969 Sep	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/	Meteo	FC	-	-
1969-W1164	2440464.50	1969 Sep	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/	Meteo	FC	-	-
1969-W1165	2440464.50	1969 Sep	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/	Meteo	FC	-	-
1969-W1174	2440468.20	1969 Sep 3 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1210	2440475.10	1969 Sep 10 1430:00	Judi-Dart	?	SUPARCO	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1216	2440475.59	1969 Sep 11 0215:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1221	2440476.56	1969 Sep 12 0124:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1229	2440477.26	1969 Sep 12 1818:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1241	2440480.20	1969 Sep 15 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1255	2440482.20	1969 Sep 17 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1272	2440484.20	1969 Sep 19 1653:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1284	2440487.27	1969 Sep 22 1834:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1299	2440489.21	1969 Sep 24 1703:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1320	2440494.20	1969 Sep 29 1651:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1325	2440494.50	1969 Oct	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/	Meteo	FC	-	-
1969-W1332	2440496.20	1969 Oct 1 1647:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1359	2440503.20	1969 Oct 8 1651:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1377	2440505.54	1969 Oct 11 0053:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1390	2440509.95	1969 Oct 15 1049:59	Judi-Dart	-	INTA H-6913	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W1401	2440510.64	1969 Oct 16 0327:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1418	2440512.58	1969 Oct 18 0154:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1423	2440515.64	1969 Oct 21 0322:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1429	2440517.09	1969 Oct 22 1410:00	Judi-Dart	?	SUPARCO-047/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1437	2440517.61	1969 Oct 23 0245:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1443	2440519.25	1969 Oct 24 1800:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1450	2440522.24	1969 Oct 27 1751:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1460	2440524.24	1969 Oct 29 1749:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1477	2440527.50	1969 Nov 2?	Judi-Dart	-	-	0.000	AWS	SS	-	USAF/6WW	Aeron	SFLT1971-225	-	-
1969-W1478	2440528.70	1969 Nov 3 0454:59	Judi-Dart	-	Starute,Datasonde	0.000	MRN	SS	-	USAF/	Meteo	SR11,1181	DSI-5850	-
1969-W1483	2440529.05	1969 Nov 3 1310:59	Judi-Dart	-	Starute,Datasonde	0.000	MRN	SS	-	USAF/	Meteo	SR11,1181	DSI-5850	-
1969-W1490	2440529.29	1969 Nov 3 1901:59	Judi-Dart	-	Starute,Datasonde	0.000	MRN	SS	-	USAF/	Meteo	SR11,1181	DSI-5850	-
1969-W1491	2440529.40	1969 Nov 3 2130:00	Judi-Dart	-	Starute,Datasonde	0.000	MRN	SS	-	USAF/	Meteo	SR11,1181	DSI-5850	-
1969-W1505	2440531.31	1969 Nov 5 1927:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1510	2440532.63	1969 Nov 7 0309:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1521	2440537.97	1969 Nov 12 1120:00	Judi-Dart	-	INTA H-6914	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W1529	2440538.70	1969 Nov 13 0449:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1537	2440540.68	1969 Nov 15 0423:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1543	2440543.24	1969 Nov 17 1747:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1552	2440544.24	1969 Nov 18 1751:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1559	2440545.24	1969 Nov 19 1748:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1576	2440550.24	1969 Nov 24 1747:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1579	2440551.24	1969 Nov 25 1749:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1586	2440551.96	1969 Nov 26 1103:59	Judi-Dart	-	INTA H-6915	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W1589	2440552.24	1969 Nov 26 1744:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1596	2440553.24	1969 Nov 27 1743:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1553	2440545.11	1969 Nov 19 1435:00	Judi-Dart	?	SUPARCO-048/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1564	2440546.08	1969 Nov 20 1350:00	Judi-Dart	?	SUPARCO-049/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1608	2440558.24	1969 Dec 2 1747:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1621	2440560.22	1969 Dec 4 1719:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1627	2440561.25	1969 Dec 5 1800:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1643	2440565.53	1969 Dec 10 0045:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-A204	2440566.08	1969 Dec 10 1400:00	Judi-Dart	-	INTA H-6916	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1969-W1651	2440566.54	1969 Dec 11 0103:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1657	2440567.61	1969 Dec 12 0233:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1667	2440568.58	1969 Dec 13 0202:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1674	2440571.25	1969 Dec 15 1753:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1682	2440572.24	1969 Dec 16 1748:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1685	2440573.05	1969 Dec 17 1310:00	Judi-Dart	?	SUPARCO-050/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1969-W1691	2440573.25	1969 Dec 17 1756:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1697	2440574.24	1969 Dec 18 1747:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1705	2440575.24	1969 Dec 19 1747:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1969-W1738	2440587.05	1969 Dec 31 1315:00	Judi-Dart	?	SUPARCO-051/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W06	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W07	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W08	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W09	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W10	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W11	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W12	2440586.50	1970 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-A02	2440589.26	1970 Jan 2 1812:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W20	2440589.34	1970 Jan 2 2015:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W23	2440589.75	1970 Jan 3 0600:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W24	2440589.77	1970 Jan 3 0633:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W25	2440590.25	1970 Jan 3 1800:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W28	2440590.75	1970 Jan 4 0602:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W29	2440591.25	1970 Jan 4 1802:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W33	2440591.75	1970 Jan 5 0600:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W37	2440592.15	1970 Jan 5 1534:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W39	2440592.24	1970 Jan 5 1748:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W43	2440592.42	1970 Jan 5 2200:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W45	2440592.75	1970 Jan 6 0600:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W49	2440593.68	1970 Jan 7 0417:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W58	2440594.46	1970 Jan 7 2303:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W71	2440596.99	1970 Jan 10 1140:00	Judi-Dart	-	INTA H-7001	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W81	2440600.58	1970 Jan 14 0155:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W82	2440600.98	1970 Jan 14 1135:00	Judi-Dart	-	INTA H-7002	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W83	2440601.04	1970 Jan 14 1300:00	Judi-Dart	?	SUPARCO-052/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W84	2440601.08	1970 Jan 14 1400:00	Judi-Dart	?	SUPARCO-053/69?	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W86	2440601.14	1970 Jan 14 1515:00	Judi-Dart	?	SUPARCO-054/69	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W94	2440601.52	1970 Jan 15 0022:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W111	2440603.54	1970 Jan 17 0058:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W124	2440606.64	1970 Jan 20 0325:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-A13	2440607.63	1970 Jan 21 0301:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W128	2440607.63	1970 Jan 21 0301:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W129	2440608.02	1970 Jan 21 1224:59	Judi-Dart	-	INTA H-7003	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W141	2440608.62	1970 Jan 22 0257:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W161	2440613.66	1970 Jan 27 0346:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W163	2440614.97	1970 Jan 28 1118:00	Judi-Dart	-	INTA H-7004	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W175	2440615.64	1970 Jan 29 0317:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W184	2440617.50	1970 Feb	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W185	2440617.50	1970 Feb	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W186	2440617.50	1970 Feb	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W187	2440617.50	1970 Feb	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W197	2440621.62	1970 Feb 4 0258:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W206	2440622.56	1970 Feb 5 0131:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W216	2440624.65	1970 Feb 7 0329:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W233	2440627.76	1970 Feb 10 0614:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W236	2440628.30	1970 Feb 10 1915:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W238	2440628.96	1970 Feb 11 1100:00	Judi-Dart	-	INTA H-7005	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W240	2440629.06	1970 Feb 11 1330:00	Judi-Dart	?	SUPARCO-055/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W247	2440629.68	1970 Feb 12 0417:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W252	2440630.51	1970 Feb 13 0019:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W266	2440634.52	1970 Feb 17 0026:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W271	2440635.60	1970 Feb 18 0231:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W282	2440636.58	1970 Feb 19 0202:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W295	2440642.71	1970 Feb 25 0500:00	Judi-Dart	-	INTA H-7006	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W299	2440643.21	1970 Feb 25 1703:59	Judi-Dart	-	INTA H-7007	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W306	2440643.59	1970 Feb 26 0214:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W312	2440644.63	1970 Feb 27 0300:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W324	2440645.67	1970 Feb 28 0409:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W322	2440645.50	1970 Mar	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W372	2440655.55	1970 Mar 10 0107:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W379	2440657.14	1970 Mar 11 1515:00	Judi-Dart	?	SUPARCO-056/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W381	2440657.17	1970 Mar 11 1610:00	Judi-Dart	?	SUPARCO-057/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W387	2440657.78	1970 Mar 12 0643:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W399	2440659.60	1970 Mar 14 0229:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W409	2440662.60	1970 Mar 17 0225:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W418	2440664.61	1970 Mar 19 0238:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W460	2440674.19	1970 Mar 28 1640:00	Judi-Dart	?	SUPARCO-058/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W540	2440692.07	1970 Apr 15 1345:00	Judi-Dart	?	SUPARCO-059/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W542	2440692.11	1970 Apr 15 1445:00	Judi-Dart	?	SUPARCO-060/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-A59	2440705.98	1970 Apr 29 1137:59	Judi-Dart	-	INTA H-7008	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W622	2440706.50	1970 May	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W623	2440706.50	1970 May	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W624	2440706.50	1970 May	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W625	2440706.50	1970 May	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W626	2440706.50	1970 May	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W666	2440715.29	1970 May 8 1856:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W680	2440719.95	1970 May 13 1044:59	Judi-Dart	-	INTA H-7009	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W688	2440720.24	1970 May 13 1752:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W706	2440722.21	1970 May 15 1706:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W723	2440726.96	1970 May 20 1101:00	Judi-Dart	-	INTA H-7010	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W732	2440727.21	1970 May 20 1656:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W747	2440729.25	1970 May 22 1800:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W774	2440733.96	1970 May 27 1107:00	Judi-Dart	-	INTA H-7011	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W808	2440741.20	1970 Jun 3 1652:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W842	2440747.96	1970 Jun 10 1100:00	Judi-Dart	-	INTA H-7012	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W850	2440748.31	1970 Jun 10 1930:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W879	2440754.97	1970 Jun 17 1115:00	Judi-Dart	-	INTA H-7013	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W881	2440755.12	1970 Jun 17 1450:00	Judi-Dart	?	SUPARCO-062/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-W887	2440755.20	1970 Jun 17 1651:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W927	2440761.96	1970 Jun 24 1055:59	Judi-Dart	-	INTA H-7014	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W961	2440769.00	1970 Jul 1 1200:00	Judi-Dart	-	INTA H-7015	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W1029	2440783.13	1970 Jul 15 1505:00	Judi-Dart	?	SUPARCO-063/70	0.000	SUPA	SU	-	SUPA/Rahmatullah	Aeron	WDCRF	-	-
1970-M30	2440789.95	1970 Jul 22 1047	Judi-Dart	-	INTA H-7016	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1970-W1075	2440790.32	1970 Jul 22 1944:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1106	2440796.95	1970 Jul 29 1054:59	Judi-Dart	-	INTA H-7017	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W1116	2440797.56	1970 Jul 30 0124:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1121	2440798.50	1970 Aug	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W1156	2440804.73	1970 Aug 6 0537:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1169	2440806.71	1970 Aug 8 0455:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1177	2440809.69	1970 Aug 11 0437:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1193	2440811.49	1970 Aug 12 2344:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1236	2440818.58	1970 Aug 20 0200:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1252	2440823.20	1970 Aug 24 1648:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1258	2440825.12	1970 Aug 26 1452:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1271	2440827.12	1970 Aug 28 1449:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1277	2440830.11	1970 Aug 31 1443:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1289	2440832.12	1970 Sep 2 1447:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1313	2440838.96	1970 Sep 9 1100:00	Judi-Dart	-	INTA H-7018	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1317	2440839.11	1970 Sep 9 1445:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1340	2440844.11	1970 Sep 14 1435:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1357	2440845.96	1970 Sep 16 1100:00	Judi-Dart	-	INTA H-7019	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1360	2440846.13	1970 Sep 16 1513:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-M39	2440846.50	1970 Sep 17	Loki Dart	-	-	0.000	WFF	SS	-	NASA/?	Aeron	SP4015	-	-
1970-W1380	2440847.35	1970 Sep 17 2020:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1386	2440848.15	1970 Sep 18 1538:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1389	2440848.39	1970 Sep 18 2126:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1393	2440851.11	1970 Sep 21 1433:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-M40	2440850.50	1970 Sep 21	Loki Dart	-	-	0.000	WFF	SS	-	NASA/?	Aeron	SP4015	-	-
1970-W1411	2440853.11	1970 Sep 23 1437:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1420	2440854.96	1970 Sep 25 1100:00	Judi-Dart	-	INTA H-7020	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1438	2440859.96	1970 Sep 30 1100:00	Judi-Dart	-	INTA H-7021	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1441	2440860.11	1970 Sep 30 1442:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1455	2440865.12	1970 Oct 5 1447:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1468	2440866.96	1970 Oct 7 1100:00	Judi-Dart	-	INTA H-7022	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1490	2440869.13	1970 Oct 9 1511:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1513	2440874.13	1970 Oct 14 1500:59	Judi-Dart	-	[Not in FC]	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1529	2440876.11	1970 Oct 16 1445:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-A112	2440881.01	1970 Oct 21 1209:00	Judi-Dart	-	INTA H-7023	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1553	2440881.16	1970 Oct 21 1545:00	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Jafri	Aeron	WDCRF	SR12,601	-
1970-W1582	2440887.98	1970 Oct 28 1126:59	Judi-Dart	-	INTA H-7024	0.000	INTA	SS	-	INTA/NASA/	Meteo	DSI-5850	-	-
1970-W1587	2440888.15	1970 Oct 28 1540:00	Judi-Dart	-	[Not in FC]	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1606	2440890.15	1970 Oct 30 1537:59	Judi-Dart	-	[Not in FC]	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1612	2440890.50	1970 Nov	Judi-Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W1617	2440893.16	1970 Nov 2 1551:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1624	2440894.15	1970 Nov 3 1543:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1632	2440895.15	1970 Nov 4 1543:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1643	2440897.15	1970 Nov 6 1537:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1652	2440900.15	1970 Nov 9 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1660	2440901.24	1970 Nov 10 1742:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1664	2440903.15	1970 Nov 12 1536:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1674	2440904.35	1970 Nov 13 2027:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1678	2440907.15	1970 Nov 16 1537:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1684	2440908.15	1970 Nov 17 1537:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1690	2440909.15	1970 Nov 18 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1698	2440910.15	1970 Nov 19 1542:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1706	2440911.18	1970 Nov 20 1618:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1716	2440914.24	1970 Nov 23 1752:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1722	2440915.15	1970 Nov 24 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1725	2440916.05	1970 Nov 25 1315:00	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Jafri	Aeron	WDCRF	SR12,601	-
1970-W1734	2440916.24	1970 Nov 25 1745:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1749	2440921.16	1970 Nov 30 1544:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1744	2440920.50	1970 Dec	Loki Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W1745	2440920.50	1970 Dec	Loki Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W1746	2440920.50	1970 Dec	Loki Dart	-	-	0.000	MRN	SU	-	-	Meteo	FC	-	-
1970-W1758	2440922.15	1970 Dec 1 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1764	2440923.25	1970 Dec 2 1800:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1769	2440924.16	1970 Dec 3 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1776	2440925.15	1970 Dec 4 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1789	2440929.16	1970 Dec 8 1551:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1796	2440930.16	1970 Dec 9 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1801	2440931.16	1970 Dec 10 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1810	2440932.25	1970 Dec 11 1757:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1826	2440937.00	1970 Dec 16 1200:00	Judi-Dart	-	INTA H-7025	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W1839	2440938.16	1970 Dec 17 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1846	2440939.16	1970 Dec 18 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1854	2440942.16	1970 Dec 21 1552:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1860	2440943.16	1970 Dec 22 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1866	2440944.15	1970 Dec 23 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1872	2440944.36	1970 Dec 23 2034:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1875	2440945.16	1970 Dec 24 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1878	2440949.15	1970 Dec 28 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1884	2440950.15	1970 Dec 29 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1889	2440951.15	1970 Dec 30 1540:00	Judi-Dart	-	-	0.000	SUPA	SS	-	SUPA/Jafri	Aeron	WDCRF	SR12,601	-
1970-W1890	2440951.19	1970 Dec 30 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1970-W1895	2440952.16	1970 Dec 31 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W01	2440951.50	1971 Jan	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-W05	2440956.16	1971 Jan 4 1556:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W08	2440957.29	1971 Jan 5 1903:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W15	2440958.35	1971 Jan 6 2018:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W17	2440959.30	1971 Jan 7 1907:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W29	2440960.32	1971 Jan 8 1938:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W39	2440963.35	1971 Jan 11 2026:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W45	2440964.37	1971 Jan 12 2052:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W49	2440965.03	1971 Jan 13 1241:00	Judi-Dart	-	INTA H-7101	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W54	2440965.18	1971 Jan 13 1619:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W57	2440965.32	1971 Jan 13 1936:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W61	2440966.15	1971 Jan 14 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W73	2440967.17	1971 Jan 15 1601:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W76	2440967.39	1971 Jan 15 2122:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M18	2440967.99	1971 Jan 16 1145	Judi-Dart	-	INTA H-7102	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1971-W89	2440970.55	1971 Jan 19 0107:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W99	2440972.02	1971 Jan 20 1234:59	Judi-Dart	-	INTA H-7103	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W111	2440972.65	1971 Jan 21 0333:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W121	2440973.63	1971 Jan 22 0310:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W129	2440974.60	1971 Jan 23 0219:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W141	2440977.45	1971 Jan 25 2251:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W145	2440978.30	1971 Jan 26 1918:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W152	2440979.18	1971 Jan 27 1622:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W181	2440984.19	1971 Feb 1 1636:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W198	2440986.16	1971 Feb 3 1548:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W221	2440988.48	1971 Feb 5 2326:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W228	2440991.34	1971 Feb 8 2013:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W245	2440993.25	1971 Feb 10 1801:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M29	2440993.50	1971 Feb 11	Loki Dart	-	HASP	0.000	WRE	SS	-	CBMET/	Aeron	Ulrich/FDC	-	-
1971-M30	2440993.50	1971 Feb 11	Loki Dart	-	HASP	0.000	WRE	SS	-	CBMET/	Aeron	Ulrich/FDC	-	-
1971-W250	2440994.16	1971 Feb 11 1555:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W257	2440995.18	1971 Feb 12 1624:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W263	2440998.51	1971 Feb 16 0019:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W266	2440999.53	1971 Feb 17 0041:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W269	2441000.12	1971 Feb 17 1500:00	Judi-Dart	-	INTA H-7104	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W286	2441002.70	1971 Feb 20 0446:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M19	2441006.98	1971 Feb 24 1130	Judi-Dart	-	INTA H-7105	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1971-W297	2441007.02	1971 Feb 24 1222:59	Judi-Dart	-	INTA H-7106	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W327	2441013.98	1971 Mar 3 1131:00	Judi-Dart	-	INTA H-7107	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W331	2441014.25	1971 Mar 3 1807:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W335	2441015.15	1971 Mar 4 1542:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W343	2441016.27	1971 Mar 5 1825:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W356	2441019.61	1971 Mar 9 0244:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W359	2441020.59	1971 Mar 10 0206:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M20	2441020.98	1971 Mar 10 1135	Judi-Dart	-	INTA H-7108	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1971-A173	2441027.50	1971 Mar 17	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W382	2441027.98	1971 Mar 17 1130:00	Judi-Dart	-	INTA H-7109	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W404	2441033.62	1971 Mar 23 0251:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A174	2441034.50	1971 Mar 24	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W405	2441034.63	1971 Mar 24 0300:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W406	2441035.00	1971 Mar 24 1200:00	Judi-Dart	-	INTA H-7110	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W415	2441036.25	1971 Mar 25 1800:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W422	2441037.31	1971 Mar 26 1927:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W427	2441040.25	1971 Mar 29 1757:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W438	2441042.25	1971 Mar 31 1803:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W448	2441044.25	1971 Apr 2 1803:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W462	2441047.16	1971 Apr 5 1546:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W471	2441049.00	1971 Apr 7 1207:00	Loki Dart	-	INTA HT-7101	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-M21	2441056.07	1971 Apr 14 1340	Loki Dart	-	INTA HT-7102	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W509	2441056.18	1971 Apr 14 1613:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W522	2441058.16	1971 Apr 16 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W548	2441063.25	1971 Apr 21 1757:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W561	2441065.26	1971 Apr 23 1809:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W571	2441068.37	1971 Apr 26 2059:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W586	2441069.98	1971 Apr 28 1135	Loki Dart	-	INTA HT-7103	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W592	2441070.22	1971 Apr 28 1717:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W601	2441072.11	1971 Apr 30 1445:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W599	2441071.50	1971 May	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-W609	2441075.12	1971 May 3 1459:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W619	2441076.98	1971 May 5 1131:00	Loki Dart	-	INTA HT-7104	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W634	2441079.12	1971 May 7 1455:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W642	2441082.12	1971 May 10 1456:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M22	2441083.98	1971 May 12 1130	Loki Dart	-	INTA HT-7105	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W656	2441084.12	1971 May 12 1457:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W671	2441086.15	1971 May 14 1543:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W686	2441089.20	1971 May 17 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W694	2441090.97	1971 May 19 1115:00	Loki Dart	-	INTA HT-7106	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W699	2441091.13	1971 May 19 1509:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M23	2441097.98	1971 May 26 1134	Loki Dart	-	INTA HT-7107	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W733	2441098.12	1971 May 26 1446:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W752	2441100.21	1971 May 28 1709:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W757	2441103.28	1971 May 31 1836:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W756	2441102.50	1971 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-M31	2441104.50	1971 Jun 2	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-M32	2441104.50	1971 Jun 2	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W767	2441105.13	1971 Jun 2 1509:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W803	2441112.13	1971 Jun 9 1513:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W831	2441118.99	1971 Jun 16 1142:00	Loki Dart	-	INTA HT-7108	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-M33	2441123.50	1971 Jun 21	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-A175	2441123.50	1971 Jun 21	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W856	2441126.22	1971 Jun 23 1722:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W862	2441127.16	1971 Jun 24 1556:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M24	2441132.98	1971 Jun 30 1134	Loki Dart	-	INTA HT-7109	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W884	2441133.12	1971 Jun 30 1448:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W895	2441134.17	1971 Jul 1 1604:59	Loki Dart	-	[MC-71-1]	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W899	2441135.16	1971 Jul 2 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A62	2441139.98	1971 Jul 7 1137:59	Loki Dart	-	INTA HT-7110	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W911	2441140.14	1971 Jul 7 1520:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W928	2441145.15	1971 Jul 12 1534:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A176	2441146.50	1971 Jul 14	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W943	2441148.18	1971 Jul 15 1614:59	Loki Dart	-	[MC-71-2]	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W961	2441152.32	1971 Jul 19 1935:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M25	2441153.98	1971 Jul 21 1135	Loki Dart	-	INTA HT-7111	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W971	2441154.14	1971 Jul 21 1523:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M34	2441159.50	1971 Jul 27	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1009	2441161.13	1971 Jul 28 1500:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1014	2441161.21	1971 Jul 28 1704:59	Loki Dart	-	[MC-71-3]	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-A64	2441163.50	1971 Aug	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-W1029	2441163.50	1971 Aug	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-W1030	2441163.50	1971 Aug	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-M35	2441166.50	1971 Aug 3	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1049	2441168.14	1971 Aug 4 1523:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1063	2441170.12	1971 Aug 6 1446:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1084	2441175.14	1971 Aug 11 1517:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1147	2441187.12	1971 Aug 23 1447:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1161	2441189.13	1971 Aug 25 1507:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1172	2441191.12	1971 Aug 27 1456:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1182	2441194.13	1971 Aug 30 1504:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1190	2441195.14	1971 Aug 31 1527:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A73	2441194.50	1971 Sep	Judi-Dart	-	-	0.000	MRN	SF	U	USAF/6WW	Meteo	FC	-	-
1971-W1187	2441194.50	1971 Sep	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1971-W1200	2441196.12	1971 Sep 1 1458:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1222	2441202.98	1971 Sep 8 1135:00	Loki Dart	-	INTA HT-7112	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-A75	2441203.31	1971 Sep 8 1924:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1237	2441205.11	1971 Sep 10 1435:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1244	2441208.11	1971 Sep 13 1437:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1250	2441210.00	1971 Sep 15 1155:00	Loki Dart	-	INTA HT-7113	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1253	2441210.11	1971 Sep 15 1440:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1267	2441212.11	1971 Sep 17 1444:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1275	2441215.12	1971 Sep 20 1449:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A81	2441217.01	1971 Sep 22 1214:59	Loki Dart	-	INTA HT-7114	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-A177	2441216.50	1971 Sep 22	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W1286	2441217.11	1971 Sep 22 1438:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1298	2441219.00	1971 Sep 24 1200:00	Loki Dart	-	INTA HT-7115	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1302	2441219.11	1971 Sep 24 1438:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1307	2441221.99	1971 Sep 27 1149:59	Loki Dart	-	INTA HT-7116	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1316	2441223.99	1971 Sep 29 1145:00	Loki Dart	-	INTA HT-7117	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1317	2441224.16	1971 Sep 29 1544:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1326	2441226.11	1971 Oct 1 1441:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1333	2441229.11	1971 Oct 4 1438:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M26	2441230.99	1971 Oct 6 1150	Loki Dart	-	INTA HT-7118	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W1343	2441231.10	1971 Oct 6 1423:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1349	2441232.11	1971 Oct 7 1440:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1362	2441233.14	1971 Oct 8 1517:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1370	2441238.11	1971 Oct 13 1437:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1381	2441239.10	1971 Oct 14 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1388	2441240.12	1971 Oct 15 1447:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1393	2441243.11	1971 Oct 18 1442:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1401	2441245.11	1971 Oct 20 1438:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1402	2441245.13	1971 Oct 20 1502:59	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-A178	2441246.50	1971 Oct 22	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1971-W1412	2441247.20	1971 Oct 22 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1418	2441250.11	1971 Oct 25 1435:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1427	2441252.11	1971 Oct 27 1440:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1428	2441252.11	1971 Oct 27 1440:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1431	2441252.20	1971 Oct 27 1651:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1438	2441254.11	1971 Oct 29 1443:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A92	2441255.50	1971 Nov	Judi-Dart	-	-	0.000	MRN	SF	U	USAF/6WW	Meteo	FC	-	-
1971-W1445	2441257.15	1971 Nov 1 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1450	2441258.36	1971 Nov 2 2041:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1455	2441259.16	1971 Nov 3 1546:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1459	2441259.42	1971 Nov 3 2204:59	Loki Dart	-	INTA HT-7119	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1460	2441260.08	1971 Nov 4 1349:59	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1463	2441260.16	1971 Nov 4 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M36	2441260.50	1971 Nov 5	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1474	2441264.15	1971 Nov 8 1540:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M37	2441264.53	1971 Nov 9 0050	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1486	2441266.16	1971 Nov 10 1544:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M38	2441266.54	1971 Nov 11 0100	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1496	2441268.24	1971 Nov 12 1748:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1500	2441271.16	1971 Nov 15 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1508	2441272.16	1971 Nov 16 1546:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1513	2441273.10	1971 Nov 17 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1516	2441273.16	1971 Nov 17 1553:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M39	2441273.50	1971 Nov 18	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC/Ulrich	-	-
1971-W1521	2441274.16	1971 Nov 18 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1531	2441275.16	1971 Nov 19 1546:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1535	2441278.16	1971 Nov 22 1556:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1546	2441280.16	1971 Nov 24 1553:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1553	2441281.17	1971 Nov 25 1602:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1558	2441282.16	1971 Nov 26 1549:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1564	2441285.16	1971 Nov 29 1553:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1570	2441286.16	1971 Nov 30 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1579	2441287.16	1971 Dec 1 1547:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1584	2441288.16	1971 Dec 2 1546:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1589	2441289.16	1971 Dec 3 1555:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1594	2441292.16	1971 Dec 6 1549:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1598	2441293.25	1971 Dec 7 1756:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1603	2441294.16	1971 Dec 8 1554:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1607	2441294.40	1971 Dec 8 2132:00	Loki Dart	-	INTA HT-7120	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1612	2441295.31	1971 Dec 9 1929:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1614	2441296.09	1971 Dec 10 1404:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1619	2441296.15	1971 Dec 10 1538:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1622	2441296.20	1971 Dec 10 1649:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1623	2441296.27	1971 Dec 10 1823:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1626	2441299.17	1971 Dec 13 1558:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-M27	2441301.43	1971 Dec 15 2219	Loki Dart	-	INTA HT-7121	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1971-W1637	2441301.16	1971 Dec 15 1547:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1642	2441301.53	1971 Dec 16 0040:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/	Meteo	DSI-5850	SR13,177	-
1971-W1644	2441302.16	1971 Dec 16 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1650	2441303.15	1971 Dec 17 1540:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1656	2441306.17	1971 Dec 20 1603:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1660	2441307.17	1971 Dec 21 1557:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1663	2441308.00	1971 Dec 22 1204:59	Loki Dart	-	INTA HT-7122	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1666	2441308.16	1971 Dec 22 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1669	2441308.43	1971 Dec 22 2218:59	Loki Dart	-	INTA HT-7123	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1971-W1670	2441309.16	1971 Dec 23 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1672	2441310.16	1971 Dec 24 1547:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1676	2441314.19	1971 Dec 28 1636:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-A111	2441314.36	1971 Dec 28 2037:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1681	2441315.15	1971 Dec 29 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1683	2441315.37	1971 Dec 29 2055:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1687	2441316.15	1971 Dec 30 1533:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1689	2441316.37	1971 Dec 30 2047:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1971-W1691	2441317.15	1971 Dec 31 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W11	2441321.15	1972 Jan 4 1542:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W16	2441322.16	1972 Jan 5 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W24	2441323.24	1972 Jan 6 1751:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W37	2441324.24	1972 Jan 7 1741:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M18	2441329.43	1972 Jan 12 2218	Loki Dart	-	INTA HD-7201	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1972-W59	2441329.46	1972 Jan 12 2300:00	Loki Dart	-	INTA HD-7202	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W71	2441331.54	1972 Jan 15 0101:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W78	2441334.17	1972 Jan 17 1557:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W84	2441335.16	1972 Jan 18 1551:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W92	2441336.16	1972 Jan 19 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W100	2441336.45	1972 Jan 19 2244:59	Loki Dart	-	INTA HW-7201	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W103	2441337.15	1972 Jan 20 1542:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W108	2441338.15	1972 Jan 21 1542:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M19	2441338.58	1972 Jan 22 0153	Loki Dart	-	INTA HD-7203	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1972-W119	2441340.95	1972 Jan 24 1047:59	Loki Dart	-	INTA HD-7204	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W123	2441341.15	1972 Jan 24 1541:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W132	2441342.98	1972 Jan 26 1134:00	Loki Dart	-	INTA HW-7202	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W138	2441343.25	1972 Jan 26 1758:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W148	2441345.16	1972 Jan 28 1544:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W155	2441348.16	1972 Jan 31 1553:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W163	2441349.16	1972 Feb 1 1547:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W171	2441349.98	1972 Feb 2 1134:00	Loki Dart	-	INTA HW-7203	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W174	2441350.15	1972 Feb 2 1543:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W179	2441351.16	1972 Feb 3 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W183	2441352.16	1972 Feb 4 1548:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W191	2441355.00	1972 Feb 7 1201:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W200	2441355.80	1972 Feb 8 0710:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W204	2441356.98	1972 Feb 9 1133:00	Loki Dart	-	INTA HW-7204	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W216	2441357.47	1972 Feb 9 2323:00	Loki Dart	-	INTA HW-7205	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W217	2441357.55	1972 Feb 10 0117:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W221	2441358.67	1972 Feb 11 0402:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W222	2441359.04	1972 Feb 11 1252:00	Loki Dart	-	INTA HW-7206	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W234	2441359.78	1972 Feb 12 0648:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W242	2441362.44	1972 Feb 14 2233:59	Loki Dart	-	INTA HW-7207	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W243	2441362.75	1972 Feb 15 0555:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W246	2441363.29	1972 Feb 15 1901:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W248	2441363.98	1972 Feb 16 1130:00	Loki Dart	-	INTA HW-7208	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W254	2441364.16	1972 Feb 16 1545:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W258	2441365.17	1972 Feb 17 1606:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W261	2441365.98	1972 Feb 18 1137:59	Loki Dart	-	INTA HW-7209	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W265	2441366.16	1972 Feb 18 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W271	2441370.16	1972 Feb 22 1552:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-A133	2441370.54	1972 Feb 23 0100	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1972-W275	2441370.99	1972 Feb 23 1140:00	Loki Dart	-	INTA HW-7210	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W278	2441371.16	1972 Feb 23 1547:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W285	2441372.16	1972 Feb 24 1551:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W308	2441378.16	1972 Mar 1 1545:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W313	2441379.16	1972 Mar 2 1551:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W318	2441380.17	1972 Mar 3 1600:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W334	2441384.68	1972 Mar 8 0418:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W342	2441386.59	1972 Mar 10 0214:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W352	2441387.57	1972 Mar 11 0145:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W358	2441392.00	1972 Mar 15 1157:00	Loki Dart	-	INTA HD-7205	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W362	2441392.15	1972 Mar 15 1533:00	Loki Dart	-	T1-5939	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	FDC/Ulrich	-
1972-W373	2441392.59	1972 Mar 16 0203:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W388	2441394.35	1972 Mar 17 2026:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W399	2441397.33	1972 Mar 20 2000:00	Loki Dart	-	T1-5549	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	FDC/Ulrich	-
1972-W400	2441397.56	1972 Mar 21 0132:59	Loki Dart	-	T1-5950	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	FDC/Ulrich	-
1972-W401	2441398.81	1972 Mar 22 0732:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W402	2441398.98	1972 Mar 22 1137:59	Loki Dart	-	INTA HD-7206	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W413	2441400.60	1972 Mar 24 0224:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W422	2441401.64	1972 Mar 25 0319:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W431	2441404.86	1972 Mar 28 0832:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W440	2441406.89	1972 Mar 30 0924:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W444	2441407.90	1972 Mar 31 0933:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W461	2441413.00	1972 Apr 5 1155:00	Loki Dart	-	INTA HD-7207	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W470	2441413.90	1972 Apr 6 0932:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W479	2441415.88	1972 Apr 8 0913:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W490	2441419.66	1972 Apr 12 0345:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W491	2441419.98	1972 Apr 12 1137:00	Loki Dart	-	INTA HD-7208	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W499	2441420.72	1972 Apr 13 0512:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W507	2441422.66	1972 Apr 15 0356:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-A32	2441427.07	1972 Apr 19 1335:59	Loki Dart	-	INTA HD-7209	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W529	2441427.67	1972 Apr 20 0409:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W537	2441429.64	1972 Apr 22 0317:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W547	2441432.67	1972 Apr 25 0359:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-A39	2441434.04	1972 Apr 26 1300:59	Loki Dart	-	INTA HD-7210	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W559	2441434.68	1972 Apr 27 0424:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W585	2441441.11	1972 May 3 1444:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W582	2441441.04	1972 May 3 1300:59	Loki Dart	-	INTA HD-7211	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W606	2441443.33	1972 May 5 1955:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W614	2441446.12	1972 May 8 1452:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W622	2441447.12	1972 May 9 1454:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W596	2441448.05	1972 May 10 1308:00	Loki Dart	-	INTA HW-7211	0.000	INTA	SS	-	INTA/	Meteo	ElAren	DSI-5850	-
1972-W627	2441448.11	1972 May 10 1445:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W638	2441450.11	1972 May 12 1442:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W646	2441453.11	1972 May 15 1440:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W654	2441455.04	1972 May 17 1251:00	Loki Dart	-	INTA HW-7212	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W661	2441455.20	1972 May 17 1654:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W670	2441456.26	1972 May 18 1810:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W674	2441457.12	1972 May 19 1451:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M20	2441462.00	1972 May 24 1206	Loki Dart	-	INTA HT-7201	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1972-W687	2441462.11	1972 May 24 1435:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W694	2441463.16	1972 May 25 1552:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W699	2441464.11	1972 May 26 1443:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W705	2441467.20	1972 May 29 1647:59	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W720	2441469.11	1972 May 31 1442:00	Judi-Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W710	2441468.50	1972 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1972-W711	2441468.50	1972 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1972-W712	2441468.50	1972 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1972-W713	2441468.50	1972 Jun	Judi-Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1972-W863	2441504.12	1972 Jul 5 1457:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W911	2441513.19	1972 Jul 14 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W939	2441520.11	1972 Jul 21 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W962	2441525.11	1972 Jul 26 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W981	2441529.50	1972 Aug	Loki Dart	-	-	0.000	MRN	SU	-	USAF/6WW	Meteo	FC	-	-
1972-W990	2441532.11	1972 Aug 2 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1016	2441539.11	1972 Aug 9 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1025	2441541.11	1972 Aug 11 1441:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-A86	2441544.28	1972 Aug 14 1843:00	Loki Dart	-	T 1-6097	0.000	WFF	SS	-	WFF/Spurling	Aeron	WDCRF	-	-
1972-W1040	2441544.25	1972 Aug 14 1801:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1048	2441546.11	1972 Aug 16 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1050	2441546.18	1972 Aug 16 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	INTA/?	Meteo	DSI-5850	-	-
1972-W1058	2441548.11	1972 Aug 18 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1066	2441551.11	1972 Aug 21 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-A134	2441551.54	1972 Aug 22 0100	Loki Dart	-	HASP	0.000	WRE	SS	-	WRE/	Meteo	FDC	-	-
1972-W1073	2441553.14	1972 Aug 23 1518:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1082	2441555.11	1972 Aug 25 1442:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1091	2441558.12	1972 Aug 28 1448:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1104	2441560.11	1972 Aug 30 1444:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1106	2441560.14	1972 Aug 30 1524:59	Loki Dart	-	-	0.000	MRN	SS	-	INTA/?	Meteo	DSI-5850	-	-
1972-A94	2441560.50	1972 Sep	Loki Dart	-	-	0.000	MRN	SF	U	USAF/6WW	Meteo	FC	-	-
1972-W1110	2441560.50	1972 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1972-W1128	2441567.61	1972 Sep 7 0233:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1143	2441572.58	1972 Sep 12 0148:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1154	2441574.59	1972 Sep 14 0203:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M21	2441576.02	1972 Sep 15 1235	Loki Dart	-	INTA HW-7213	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1972-W1161	2441576.58	1972 Sep 16 0158:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1172	2441579.83	1972 Sep 19 0802:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M22	2441581.00	1972 Sep 20 1204	Loki Dart	-	INTA HW-7214	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1972-W1176	2441581.21	1972 Sep 20 1704:59	Loki Dart	-	-	0.000	MRN	SS	-	INTA/?	Meteo	DSI-5850	-	-
1972-W1185	2441583.63	1972 Sep 23 0312:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1190	2441586.17	1972 Sep 25 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-M23	2441587.92	1972 Sep 27 1006	Loki Dart	-	INTA HW-7215	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1972-W1199	2441588.08	1972 Sep 27 1400:00	Loki Dart	-	-	0.000	MRN	SS	-	INTA/?	Meteo	DSI-5850	-	-
1972-W1204	2441588.21	1972 Sep 27 1657:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1209	2441590.11	1972 Sep 29 1438:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1217	2441593.12	1972 Oct 2 1452:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1235	2441595.64	1972 Oct 5 0323:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1243	2441597.59	1972 Oct 7 0206:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1258	2441602.30	1972 Oct 11 1904:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1265	2441604.20	1972 Oct 13 1645:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1268	2441607.11	1972 Oct 16 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1277	2441609.12	1972 Oct 18 1452:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1291	2441611.12	1972 Oct 20 1452:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1296	2441614.13	1972 Oct 23 1501:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1302	2441616.14	1972 Oct 25 1517:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1318	2441618.12	1972 Oct 27 1456:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1331	2441621.66	1972 Oct 31 0347:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1330	2441621.50	1972 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1347	2441623.74	1972 Nov 2 0543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1352	2441625.16	1972 Nov 3 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1360	2441628.16	1972 Nov 6 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1365	2441629.16	1972 Nov 7 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1370	2441630.15	1972 Nov 8 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1381	2441631.16	1972 Nov 9 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1389	2441632.15	1972 Nov 10 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1402	2441636.16	1972 Nov 14 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1405	2441637.15	1972 Nov 15 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1412	2441638.15	1972 Nov 16 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1419	2441639.15	1972 Nov 17 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1428	2441642.16	1972 Nov 20 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1435	2441643.15	1972 Nov 21 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1440	2441644.15	1972 Nov 22 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1446	2441645.16	1972 Nov 23 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1447	2441646.16	1972 Nov 24 1551:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1456	2441649.63	1972 Nov 28 0304:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1457	2441650.55	1972 Nov 29 0118:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1458	2441651.02	1972 Nov 29 1227:59	Loki Dart	-	INTA HW-7216	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W1465	2441651.38	1972 Nov 29 2104:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1466	2441651.50	1972 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1972-W1473	2441653.61	1972 Dec 2 0243:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1480	2441656.53	1972 Dec 5 0043:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1485	2441657.58	1972 Dec 6 0200:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1486	2441658.01	1972 Dec 6 1217:00	Loki Dart	-	INTA HW-7217	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1972-W1493	2441658.62	1972 Dec 7 0255:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1494	2441658.82	1972 Dec 7 0737:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1496	2441658.86	1972 Dec 7 0834:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1499	2441659.62	1972 Dec 8 0251:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1505	2441660.60	1972 Dec 9 0229:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1506	2441662.54	1972 Dec 11 0057:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1507	2441662.59	1972 Dec 11 0210:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1508	2441662.61	1972 Dec 11 0245:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1517	2441663.60	1972 Dec 12 0230:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1522	2441665.16	1972 Dec 13 1547:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1527	2441666.16	1972 Dec 14 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1530	2441667.16	1972 Dec 15 1547:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1538	2441670.17	1972 Dec 18 1559:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1545	2441671.16	1972 Dec 19 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1552	2441672.18	1972 Dec 20 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1557	2441673.15	1972 Dec 21 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1559	2441674.16	1972 Dec 22 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1564	2441679.15	1972 Dec 27 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1570	2441680.16	1972 Dec 28 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1972-W1572	2441681.16	1972 Dec 29 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W01	2441682.50	1973 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W02	2441682.50	1973 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W03	2441682.50	1973 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W04	2441682.50	1973 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W05	2441685.16	1973 Jan 2 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W12	2441686.20	1973 Jan 3 1648:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W19	2441687.16	1973 Jan 4 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W24	2441688.15	1973 Jan 5 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W32	2441689.24	1973 Jan 6 1752:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W33	2441690.25	1973 Jan 7 1757:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W36	2441691.19	1973 Jan 8 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W46	2441692.31	1973 Jan 9 1932:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-M38	2441693.03	1973 Jan 10 1245	Loki Dart	-	INTA HW-7301	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1973-W51	2441693.20	1973 Jan 10 1644:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W60	2441694.15	1973 Jan 11 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W70	2441695.16	1973 Jan 12 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W84	2441698.29	1973 Jan 15 1855:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W87	2441699.15	1973 Jan 16 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W98	2441700.21	1973 Jan 17 1703:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W108	2441702.16	1973 Jan 19 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W122	2441705.36	1973 Jan 22 2038:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W125	2441706.15	1973 Jan 23 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W132	2441707.15	1973 Jan 24 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W140	2441708.66	1973 Jan 26 0348:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W148	2441709.66	1973 Jan 27 0349:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W167	2441714.60	1973 Feb 1 0224:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W171	2441715.55	1973 Feb 2 0118:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W180	2441716.55	1973 Feb 3 0118:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W188	2441719.54	1973 Feb 6 0051:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W193	2441720.53	1973 Feb 7 0045:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W194	2441721.00	1973 Feb 7 1207:00	Loki Dart	-	INTA HW-7302	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1973-W204	2441721.57	1973 Feb 8 0142:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W210	2441722.66	1973 Feb 9 0356:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W214	2441723.25	1973 Feb 9 1803:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W226	2441726.36	1973 Feb 12 2045:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W230	2441727.16	1973 Feb 13 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W239	2441728.18	1973 Feb 14 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W247	2441729.18	1973 Feb 15 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W253	2441730.16	1973 Feb 16 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W257	2441733.16	1973 Feb 19 1556:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W264	2441734.67	1973 Feb 21 0410:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W273	2441735.55	1973 Feb 22 0118:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W277	2441736.63	1973 Feb 23 0308:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W286	2441737.66	1973 Feb 24 0348:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W304	2441742.67	1973 Mar 1 0407:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W306	2441743.25	1973 Mar 1 1757:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W313	2441744.16	1973 Mar 2 1547:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W320	2441747.16	1973 Mar 5 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W326	2441748.18	1973 Mar 6 1617:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W331	2441749.05	1973 Mar 7 1304:59	Loki Dart	-	INTA HW-7303	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1973-W335	2441749.15	1973 Mar 7 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W344	2441750.19	1973 Mar 8 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W347	2441751.15	1973 Mar 9 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W356	2441754.16	1973 Mar 12 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W363	2441755.18	1973 Mar 13 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W366	2441756.15	1973 Mar 14 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W377	2441757.19	1973 Mar 15 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W381	2441758.15	1973 Mar 16 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W388	2441761.15	1973 Mar 19 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W397	2441762.19	1973 Mar 20 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W403	2441763.16	1973 Mar 21 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W409	2441764.19	1973 Mar 22 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W416	2441765.15	1973 Mar 23 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W426	2441768.15	1973 Mar 26 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W434	2441769.18	1973 Mar 27 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W442	2441770.16	1973 Mar 28 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W450	2441771.19	1973 Mar 29 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W455	2441772.24	1973 Mar 30 1742:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W473	2441776.19	1973 Apr 3 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W476	2441777.15	1973 Apr 4 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W486	2441779.15	1973 Apr 6 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W500	2441783.19	1973 Apr 10 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W503	2441784.01	1973 Apr 11 1220:00	Loki Dart	-	INTA HW-7304	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1973-W506	2441784.15	1973 Apr 11 1536:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W519	2441786.15	1973 Apr 13 1535:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W531	2441790.19	1973 Apr 17 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W537	2441791.15	1973 Apr 18 1535:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W559	2441797.19	1973 Apr 24 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W565	2441798.15	1973 Apr 25 1534:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W575	2441800.17	1973 Apr 27 1609:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W582	2441803.11	1973 Apr 30 1436:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W590	2441805.11	1973 May 2 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W604	2441807.18	1973 May 4 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W617	2441811.22	1973 May 8 1721:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W619	2441812.02	1973 May 9 1233:00	Loki Dart	-	INTA HW-7305	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1973-W621	2441812.13	1973 May 9 1507:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W634	2441814.18	1973 May 11 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W641	2441817.12	1973 May 14 1449:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W658	2441819.18	1973 May 16 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W687	2441826.17	1973 May 23 1609:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W696	2441828.18	1973 May 25 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W702	2441831.12	1973 May 28 1457:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W714	2441833.18	1973 May 30 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W740	2441840.01	1973 Jun 6 1214:59	Loki Dart	-	INTA HW-7306	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1973-W746	2441840.18	1973 Jun 6 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W781	2441847.21	1973 Jun 13 1655:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W812	2441854.19	1973 Jun 20 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W836	2441861.19	1973 Jun 27 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W845	2441863.50	1973 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W856	2441868.18	1973 Jul 4 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-M39	2441875.01	1973 Jul 11 1220	Loki Dart	-	INTA HW-7307	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1973-W874	2441875.21	1973 Jul 11 1658:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W913	2441882.12	1973 Jul 18 1447:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W933	2441889.19	1973 Jul 25 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W959	2441894.50	1973 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W971	2441896.12	1973 Aug 1 1459:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W974	2441897.20	1973 Aug 2 1651:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W992	2441903.13	1973 Aug 8 1507:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1000	2441904.11	1973 Aug 9 1437:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1013	2441908.18	1973 Aug 13 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1027	2441910.12	1973 Aug 15 1451:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1035	2441911.18	1973 Aug 16 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1048	2441915.12	1973 Aug 20 1447:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1057	2441917.12	1973 Aug 22 1448:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1081	2441922.11	1973 Aug 27 1444:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1099	2441924.29	1973 Aug 29 1854:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1105	2441925.18	1973 Aug 30 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1150	2441937.18	1973 Sep 11 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1157	2441938.14	1973 Sep 12 1518:00	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1165	2441939.18	1973 Sep 13 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1238	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1239	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1240	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1241	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1242	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1243	2441955.50	1973 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1359	2441986.50	1973 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1360	2441986.50	1973 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1361	2441986.50	1973 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1362	2441986.50	1973 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1379	2441989.18	1973 Nov 2 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1393	2441994.18	1973 Nov 7 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A67	2441995.16	1973 Nov 8 1546:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1403	2441996.18	1973 Nov 9 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1416	2442000.15	1973 Nov 13 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-M40	2442001.01	1973 Nov 14 1212	Loki Dart	-	INTA HW-7308	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1973-W1423	2442001.18	1973 Nov 14 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1429	2442002.15	1973 Nov 15 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1435	2442003.18	1973 Nov 16 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1446	2442006.48	1973 Nov 19 2326:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1450	2442007.48	1973 Nov 20 2330:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1459	2442008.51	1973 Nov 22 0015:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1465	2442013.24	1973 Nov 26 1738:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1473	2442015.16	1973 Nov 28 1546:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1480	2442016.16	1973 Nov 29 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1489	2442017.18	1973 Nov 30 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1495	2442020.16	1973 Dec 3 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1501	2442021.15	1973 Dec 4 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1504	2442022.18	1973 Dec 5 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1512	2442023.16	1973 Dec 6 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1521	2442024.18	1973 Dec 7 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1529	2442027.16	1973 Dec 10 1546:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1537	2442028.24	1973 Dec 11 1742:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-M41	2442029.03	1973 Dec 12 1247	Loki Dart	-	INTA HW-7309	0.000	INTA	SS	-	INTA/NASA/	Meteo	ElAren	-	-
1973-W1542	2442029.18	1973 Dec 12 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1550	2442030.16	1973 Dec 13 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1556	2442031.18	1973 Dec 14 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1562	2442034.16	1973 Dec 17 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1567	2442035.16	1973 Dec 18 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1572	2442036.18	1973 Dec 19 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1577	2442037.15	1973 Dec 20 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1581	2442038.18	1973 Dec 21 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1594	2442044.15	1973 Dec 27 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1596	2442044.30	1973 Dec 27 1918:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1597	2442045.18	1973 Dec 28 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W01	2442047.50	1974 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W02	2442047.50	1974 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W09	2442050.24	1974 Jan 2 1741:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W14	2442051.16	1974 Jan 3 1556:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W18	2442052.16	1974 Jan 4 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W26	2442055.13	1974 Jan 7 1503:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M30	2442057.01	1974 Jan 9 1215	Loki Dart	-	INTA HW-7401	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W36	2442057.24	1974 Jan 9 1743:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W40	2442058.16	1974 Jan 10 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M31	2442058.98	1974 Jan 11 1138	Loki Dart	-	INTA HW-7402	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W49	2442059.15	1974 Jan 11 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M32	2442061.98	1974 Jan 14 1130	Loki Dart	-	INTA HW-7403	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W62	2442063.15	1974 Jan 15 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M33	2442063.98	1974 Jan 16 1130	Loki Dart	-	INTA HW-7404	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W68	2442064.24	1974 Jan 16 1741:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W73	2442065.16	1974 Jan 17 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M34	2442066.00	1974 Jan 18 1203	Loki Dart	-	INTA HW-7405	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W82	2442066.52	1974 Jan 19 0030:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M35	2442067.04	1974 Jan 19 1256	Loki Dart	-	INTA HW-7406	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-M36	2442069.04	1974 Jan 21 1258	Loki Dart	-	INTA HW-7407	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W92	2442069.54	1974 Jan 22 0054:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W97	2442070.51	1974 Jan 23 0019:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M37	2442071.04	1974 Jan 23 1301	Loki Dart	-	INTA HW-7408	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W110	2442072.16	1974 Jan 24 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-M38	2442073.04	1974 Jan 25 1259	Loki Dart	-	INTA HD-7401	0.000	INTA	SS	-	INTA/	Meteo	ElAren	-	-
1974-W115	2442073.24	1974 Jan 25 1743:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W122	2442076.16	1974 Jan 28 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W129	2442077.15	1974 Jan 29 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W136	2442078.15	1974 Jan 30 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W150	2442079.15	1974 Jan 31 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W144	2442078.50	1974 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W163	2442083.17	1974 Feb 4 1604:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W167	2442084.24	1974 Feb 5 1738:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W173	2442085.17	1974 Feb 6 1609:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W176	2442086.16	1974 Feb 7 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W181	2442087.15	1974 Feb 8 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W184	2442090.16	1974 Feb 11 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W192	2442091.24	1974 Feb 12 1743:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W201	2442092.54	1974 Feb 14 0059:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W205	2442093.50	1974 Feb 15 0000:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W218	2442097.53	1974 Feb 19 0037:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W232	2442099.52	1974 Feb 21 0033:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W241	2442101.60	1974 Feb 23 0217:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W249	2442104.53	1974 Feb 26 0049:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W255	2442105.54	1974 Feb 27 0057:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W270	2442106.54	1974 Feb 28 0102:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W265	2442106.50	1974 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W274	2442107.55	1974 Mar 1 0108:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W281	2442108.55	1974 Mar 2 0114:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W289	2442111.53	1974 Mar 5 0047:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W291	2442112.24	1974 Mar 5 1746:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W298	2442113.26	1974 Mar 6 1820:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W302	2442114.16	1974 Mar 7 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W310	2442115.24	1974 Mar 8 1743:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W317	2442118.17	1974 Mar 11 1604:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W321	2442119.16	1974 Mar 12 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W327	2442120.18	1974 Mar 13 1617:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W335	2442121.18	1974 Mar 14 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W351	2442125.51	1974 Mar 19 0017:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W355	2442126.12	1974 Mar 19 1500	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W357	2442126.15	1974 Mar 19 1540	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W359	2442126.17	1974 Mar 19 1600	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W360	2442126.17	1974 Mar 19 1600	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W363	2442126.25	1974 Mar 19 1800	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W365	2442126.27	1974 Mar 19 1831	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W367	2442126.29	1974 Mar 19 1900	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W368	2442126.29	1974 Mar 19 1900	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W373	2442126.38	1974 Mar 19 2100	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W374	2442126.40	1974 Mar 19 2130	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W375	2442126.42	1974 Mar 19 2200	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W377	2442126.43	1974 Mar 19 2218	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W380	2442126.50	1974 Mar 20 0000	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W383	2442126.52	1974 Mar 20 0030	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W386	2442126.54	1974 Mar 20 0100	Loki Dart	-	PWN-8B	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W387	2442126.54	1974 Mar 20 0100	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W391	2442126.62	1974 Mar 20 0300	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W392	2442126.65	1974 Mar 20 0330	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W393	2442126.67	1974 Mar 20 0400	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W397	2442126.75	1974 Mar 20 0600	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W399	2442126.77	1974 Mar 20 0630	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W400	2442126.79	1974 Mar 20 0700	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W403	2442126.83	1974 Mar 20 0748	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W405	2442126.88	1974 Mar 20 0900	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W408	2442126.90	1974 Mar 20 0931	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W410	2442126.92	1974 Mar 20 1000	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W412	2442126.93	1974 Mar 20 1015	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W415	2442127.00	1974 Mar 20 1200	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W419	2442127.05	1974 Mar 20 1315	Loki Dart	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	SP-3095	-
1974-W420	2442127.06	1974 Mar 20 1321	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W425	2442127.17	1974 Mar 20 1600	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W445	2442132.13	1974 Mar 25 1507:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W456	2442134.50	1974 Mar 28 0000:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W461	2442135.54	1974 Mar 29 0054:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W467	2442136.57	1974 Mar 30 0136:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W474	2442139.53	1974 Apr 2 0049:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W493	2442143.57	1974 Apr 6 0136:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W496	2442146.57	1974 Apr 9 0134:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W504	2442148.26	1974 Apr 10 1809:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W535	2442155.58	1974 Apr 18 0149:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W545	2442157.55	1974 Apr 20 0107:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W587	2442167.50	1974 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W588	2442167.50	1974 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W589	2442167.50	1974 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W590	2442167.50	1974 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W721	2442198.50	1974 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W722	2442198.50	1974 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W723	2442198.50	1974 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W724	2442198.50	1974 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W807	2442218.17	1974 Jun 19 1609:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W828	2442225.17	1974 Jun 26 1559:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W851	2442228.50	1974 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W852	2442228.50	1974 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W853	2442228.50	1974 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W854	2442228.50	1974 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W855	2442228.50	1974 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W977	2442259.50	1974 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W978	2442259.50	1974 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W979	2442259.50	1974 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W997	2442262.11	1974 Aug 2 1441:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1019	2442267.21	1974 Aug 7 1706:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1028	2442269.18	1974 Aug 9 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1035	2442272.19	1974 Aug 12 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1043	2442274.11	1974 Aug 14 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1052	2442276.12	1974 Aug 16 1457:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1061	2442279.20	1974 Aug 19 1642:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1072	2442281.14	1974 Aug 21 1522:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1085	2442283.20	1974 Aug 23 1641:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1091	2442286.20	1974 Aug 26 1646:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1099	2442288.20	1974 Aug 28 1653:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1113	2442290.50	1974 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1126	2442295.14	1974 Sep 4 1526:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1140	2442297.11	1974 Sep 6 1442:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1148	2442300.11	1974 Sep 9 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1159	2442302.14	1974 Sep 11 1521:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1174	2442304.11	1974 Sep 13 1437:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1181	2442307.11	1974 Sep 16 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1195	2442309.13	1974 Sep 18 1506:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1209	2442311.19	1974 Sep 20 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1214	2442314.11	1974 Sep 23 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1228	2442316.14	1974 Sep 25 1519:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1237	2442318.11	1974 Sep 27 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1253	2442321.17	1974 Sep 30 1611:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1241	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1242	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1243	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1244	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1245	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1246	2442320.50	1974 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1262	2442323.11	1974 Oct 2 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1276	2442325.11	1974 Oct 4 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1291	2442330.11	1974 Oct 9 1442:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1321	2442337.13	1974 Oct 16 1509:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1334	2442339.24	1974 Oct 18 1742:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1342	2442342.17	1974 Oct 21 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1364	2442349.19	1974 Oct 28 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1374	2442351.18	1974 Oct 30 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1378	2442351.50	1974 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1387	2442353.16	1974 Nov 1 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1393	2442356.15	1974 Nov 4 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1398	2442357.18	1974 Nov 5 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1404	2442358.18	1974 Nov 6 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1410	2442359.16	1974 Nov 7 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1416	2442360.24	1974 Nov 8 1740:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1419	2442363.15	1974 Nov 11 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1424	2442364.15	1974 Nov 12 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1428	2442365.17	1974 Nov 13 1610:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1434	2442366.17	1974 Nov 14 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1440	2442367.18	1974 Nov 15 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1446	2442370.17	1974 Nov 18 1558:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1452	2442371.15	1974 Nov 19 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1455	2442372.18	1974 Nov 20 1622:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1461	2442373.16	1974 Nov 21 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1464	2442374.15	1974 Nov 22 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1473	2442377.19	1974 Nov 25 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1478	2442378.15	1974 Nov 26 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1484	2442379.20	1974 Nov 27 1646:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1490	2442380.18	1974 Nov 28 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1491	2442381.16	1974 Nov 29 1551:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1493	2442381.50	1974 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1494	2442381.50	1974 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1495	2442381.50	1974 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1500	2442384.16	1974 Dec 2 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1506	2442385.17	1974 Dec 3 1610:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1518	2442387.15	1974 Dec 5 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1528	2442388.24	1974 Dec 6 1741:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1537	2442391.67	1974 Dec 10 0358:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1558	2442394.46	1974 Dec 12 2300:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1561	2442395.18	1974 Dec 13 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1568	2442398.16	1974 Dec 16 1545:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1577	2442399.16	1974 Dec 17 1546:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1583	2442400.18	1974 Dec 18 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1590	2442401.16	1974 Dec 19 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1595	2442402.19	1974 Dec 20 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1603	2442405.18	1974 Dec 23 1623:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1609	2442406.16	1974 Dec 24 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1617	2442412.15	1974 Dec 30 1541:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1624	2442413.17	1974 Dec 31 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W01	2442412.50	1975 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W02	2442412.50	1975 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W10	2442416.16	1975 Jan 3 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W16	2442419.15	1975 Jan 6 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W19	2442420.16	1975 Jan 7 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W25	2442421.16	1975 Jan 8 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W28	2442422.15	1975 Jan 9 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W33	2442423.19	1975 Jan 10 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W39	2442426.24	1975 Jan 13 1745:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W44	2442427.18	1975 Jan 14 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W51	2442428.17	1975 Jan 15 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W57	2442429.18	1975 Jan 16 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W63	2442430.16	1975 Jan 17 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W73	2442433.18	1975 Jan 20 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W77	2442434.16	1975 Jan 21 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W84	2442435.18	1975 Jan 22 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W90	2442436.15	1975 Jan 23 1542:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W96	2442437.16	1975 Jan 24 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W106	2442441.52	1975 Jan 29 0035:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W113	2442442.69	1975 Jan 30 0438:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W135	2442448.68	1975 Feb 5 0423:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W145	2442450.53	1975 Feb 7 0046:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W164	2442455.54	1975 Feb 12 0051:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W170	2442456.53	1975 Feb 13 0047:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W183	2442458.53	1975 Feb 15 0037:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W185	2442461.53	1975 Feb 18 0047:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W190	2442462.53	1975 Feb 19 0047:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W204	2442464.54	1975 Feb 21 0052:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W214	2442465.54	1975 Feb 22 0103:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W219	2442468.53	1975 Feb 25 0046:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W223	2442469.28	1975 Feb 25 1847:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W229	2442470.21	1975 Feb 26 1704:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W236	2442471.20	1975 Feb 27 1641:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W239	2442471.50	1975 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W240	2442471.50	1975 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W251	2442472.50	1975 Mar 1 0000:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W266	2442476.61	1975 Mar 5 0236:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W275	2442477.54	1975 Mar 6 0058:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W282	2442478.54	1975 Mar 7 0102:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W290	2442479.54	1975 Mar 8 0102:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W297	2442482.55	1975 Mar 11 0109:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W301	2442483.57	1975 Mar 12 0144:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W312	2442485.23	1975 Mar 13 1726:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W316	2442486.21	1975 Mar 14 1708:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W323	2442489.15	1975 Mar 17 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W330	2442490.15	1975 Mar 18 1540:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W339	2442491.23	1975 Mar 19 1735:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W344	2442492.21	1975 Mar 20 1657:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W348	2442493.19	1975 Mar 21 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W356	2442496.23	1975 Mar 24 1724:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W362	2442497.21	1975 Mar 25 1706:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W369	2442498.20	1975 Mar 26 1647:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W376	2442499.26	1975 Mar 27 1810:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W383	2442502.50	1975 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W384	2442502.50	1975 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W409	2442506.95	1975 Apr 4 1049:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W414	2442509.87	1975 Apr 7 0857:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W422	2442510.87	1975 Apr 8 0855:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W427	2442511.87	1975 Apr 9 0847:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W435	2442512.86	1975 Apr 10 0842:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W436	2442512.94	1975 Apr 10 1027:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W440	2442513.88	1975 Apr 11 0911:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W452	2442518.91	1975 Apr 16 0946:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W461	2442520.90	1975 Apr 18 0935:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W482	2442526.62	1975 Apr 24 0254:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W501	2442532.50	1975 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W514	2442535.21	1975 May 2 1658:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W522	2442538.11	1975 May 5 1440:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W532	2442540.19	1975 May 7 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W543	2442542.19	1975 May 9 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W548	2442545.12	1975 May 12 1446:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W561	2442547.14	1975 May 14 1520:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W592	2442554.14	1975 May 21 1520:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W601	2442556.11	1975 May 23 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W611	2442559.11	1975 May 26 1441:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W621	2442561.14	1975 May 28 1517:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W636	2442563.19	1975 May 30 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W640	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W641	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W642	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W643	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W644	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W645	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W646	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W647	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W648	2442563.50	1975 Jun	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W663	2442568.13	1975 Jun 4 1508:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W693	2442575.14	1975 Jun 11 1518:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W709	2442582.14	1975 Jun 18 1520:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W749	2442593.50	1975 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W762	2442596.13	1975 Jul 2 1511:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W779	2442603.19	1975 Jul 9 1629:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W807	2442610.26	1975 Jul 16 1815:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W825	2442617.23	1975 Jul 23 1730:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W842	2442622.26	1975 Jul 28 1815:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W855	2442624.23	1975 Jul 30 1734:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W867	2442626.12	1975 Aug 1 1448:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W888	2442631.24	1975 Aug 6 1742:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W916	2442638.20	1975 Aug 13 1646:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W931	2442640.19	1975 Aug 15 1631:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W939	2442643.24	1975 Aug 18 1740:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W945	2442645.21	1975 Aug 20 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W952	2442647.11	1975 Aug 22 1443:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W959	2442650.20	1975 Aug 25 1649:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W968	2442652.19	1975 Aug 27 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W976	2442654.18	1975 Aug 29 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W991	2442659.19	1975 Sep 3 1631:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1001	2442661.19	1975 Sep 5 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1005	2442664.19	1975 Sep 8 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W1015	2442666.19	1975 Sep 10 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1020	2442668.20	1975 Sep 12 1652:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1026	2442671.18	1975 Sep 15 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1042	2442673.21	1975 Sep 17 1656:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1047	2442675.25	1975 Sep 19 1757:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1055	2442678.19	1975 Sep 22 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1065	2442680.24	1975 Sep 24 1741:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1082	2442682.20	1975 Sep 26 1645:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1095	2442685.50	1975 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1096	2442685.50	1975 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1097	2442685.50	1975 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1102	2442687.24	1975 Oct 1 1745:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1109	2442689.11	1975 Oct 3 1438:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1121	2442692.25	1975 Oct 6 1804:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1130	2442694.19	1975 Oct 8 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1139	2442696.16	1975 Oct 10 1552:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1154	2442701.19	1975 Oct 15 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1169	2442706.20	1975 Oct 20 1651:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1183	2442708.13	1975 Oct 22 1512:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1196	2442710.19	1975 Oct 24 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1202	2442713.19	1975 Oct 27 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1227	2442720.19	1975 Nov 3 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1232	2442721.17	1975 Nov 4 1559:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1238	2442722.20	1975 Nov 5 1646:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1245	2442723.18	1975 Nov 6 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1252	2442724.30	1975 Nov 7 1907:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1257	2442727.20	1975 Nov 10 1654:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1263	2442728.18	1975 Nov 11 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1269	2442729.30	1975 Nov 12 1904:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1274	2442730.20	1975 Nov 13 1641:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1278	2442731.15	1975 Nov 14 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1287	2442735.18	1975 Nov 18 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1290	2442736.17	1975 Nov 19 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1300	2442737.18	1975 Nov 20 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1303	2442738.17	1975 Nov 21 1606:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1306	2442741.16	1975 Nov 24 1549:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1309	2442742.18	1975 Nov 25 1618:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1314	2442743.18	1975 Nov 26 1617:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1320	2442744.29	1975 Nov 27 1859:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1321	2442745.19	1975 Nov 28 1640:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1322	2442748.18	1975 Dec 1 1617:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1336	2442749.30	1975 Dec 2 1904:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1349	2442751.30	1975 Dec 4 1913:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1357	2442755.24	1975 Dec 8 1747:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1359	2442756.18	1975 Dec 9 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1368	2442757.28	1975 Dec 10 1836:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1371	2442758.19	1975 Dec 11 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1378	2442759.29	1975 Dec 12 1857:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1397	2442764.29	1975 Dec 17 1856:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1403	2442765.24	1975 Dec 18 1742:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1410	2442766.31	1975 Dec 19 1919:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1418	2442769.29	1975 Dec 22 1856:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1419	2442770.19	1975 Dec 23 1638:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1424	2442771.32	1975 Dec 24 1938:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1431	2442777.27	1975 Dec 30 1834:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1432	2442778.21	1975 Dec 31 1656:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W15	2442784.16	1976 Jan 6 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W19	2442785.17	1976 Jan 7 1559:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W29	2442786.17	1976 Jan 8 1557:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W33	2442787.27	1976 Jan 9 1830:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W37	2442790.17	1976 Jan 12 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W47	2442791.19	1976 Jan 13 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W53	2442792.19	1976 Jan 14 1629:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W65	2442793.17	1976 Jan 15 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W75	2442794.29	1976 Jan 16 1901:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W89	2442797.63	1976 Jan 20 0308:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W90	2442798.20	1976 Jan 20 1652:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W105	2442800.17	1976 Jan 22 1610:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W115	2442801.19	1976 Jan 23 1626:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W142	2442806.58	1976 Jan 29 0151:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W146	2442807.56	1976 Jan 30 0125:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W155	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W156	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W157	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W158	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W159	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W160	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W161	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W162	2442808.50	1976 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W186	2442813.57	1976 Feb 5 0136:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W190	2442814.30	1976 Feb 5 1917:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y54	2442815.15	1976 Feb 6 1533:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W195	2442815.17	1976 Feb 6 1608:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W202	2442818.18	1976 Feb 9 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W214	2442820.18	1976 Feb 11 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W223	2442821.16	1976 Feb 12 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W233	2442822.18	1976 Feb 13 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W241	2442825.17	1976 Feb 16 1604:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W256	2442827.19	1976 Feb 18 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W318	2442837.50	1976 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W319	2442837.50	1976 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W320	2442837.50	1976 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W321	2442837.50	1976 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W322	2442837.50	1976 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W452	2442860.55	1976 Mar 23 0112:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W465	2442862.55	1976 Mar 25 0113:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W470	2442863.55	1976 Mar 26 0114:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W480	2442864.56	1976 Mar 27 0126:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W490	2442867.76	1976 Mar 30 0617:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W492	2442868.56	1976 Mar 31 0125:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W508	2442871.19	1976 Apr 2 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W526	2442876.20	1976 Apr 7 1645:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W537	2442878.20	1976 Apr 9 1641:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W546	2442881.19	1976 Apr 12 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W563	2442883.20	1976 Apr 14 1646:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W587	2442888.58	1976 Apr 20 0149:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W611	2442892.61	1976 Apr 24 0234:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W620	2442895.60	1976 Apr 27 0226:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W634	2442897.61	1976 Apr 29 0237:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W654	2442899.23	1976 Apr 30 1735:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W644	2442898.50	1976 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W645	2442898.50	1976 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W646	2442898.50	1976 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W647	2442898.50	1976 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W664	2442902.20	1976 May 3 1642:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W677	2442904.15	1976 May 5 1533:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W694	2442906.19	1976 May 7 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W705	2442909.18	1976 May 10 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W721	2442911.21	1976 May 12 1703:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W733	2442913.21	1976 May 14 1707:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W740	2442916.19	1976 May 17 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W773	2442920.18	1976 May 21 1613:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W807	2442927.15	1976 May 28 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W816	2442930.16	1976 May 31 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W831	2442932.16	1976 Jun 2 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W856	2442939.19	1976 Jun 9 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W883	2442946.22	1976 Jun 16 1715:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W895	2442951.16	1976 Jun 21 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W906	2442953.16	1976 Jun 23 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W919	2442958.19	1976 Jun 28 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W929	2442960.19	1976 Jun 30 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W951	2442967.20	1976 Jul 7 1651:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W962	2442969.19	1976 Jul 9 1637:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W969	2442972.19	1976 Jul 12 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W978	2442974.18	1976 Jul 14 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1005	2442981.21	1976 Jul 21 1702:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1037	2442988.19	1976 Jul 28 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1059	2442990.50	1976 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1060	2442990.50	1976 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1080	2442995.20	1976 Aug 4 1648:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1091	2442997.20	1976 Aug 6 1644:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1101	2443000.21	1976 Aug 9 1658:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1112	2443002.18	1976 Aug 11 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1128	2443004.19	1976 Aug 13 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1133	2443007.11	1976 Aug 16 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1171	2443011.18	1976 Aug 20 1623:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1179	2443014.17	1976 Aug 23 1611:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1192	2443016.19	1976 Aug 25 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1205	2443018.19	1976 Aug 27 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1220	2443021.50	1976 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1221	2443021.50	1976 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1222	2443021.50	1976 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1236	2443023.19	1976 Sep 1 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1271	2443030.17	1976 Sep 8 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1287	2443032.19	1976 Sep 10 1629:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1303	2443037.18	1976 Sep 15 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1316	2443039.18	1976 Sep 17 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1326	2443042.17	1976 Sep 20 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1358	2443046.19	1976 Sep 24 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1372	2443049.17	1976 Sep 27 1610:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1398	2443051.50	1976 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1399	2443051.50	1976 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1400	2443051.50	1976 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1412	2443053.19	1976 Oct 1 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1449	2443060.19	1976 Oct 8 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1462	2443065.19	1976 Oct 13 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1477	2443067.18	1976 Oct 15 1623:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1498	2443072.17	1976 Oct 20 1610:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1518	2443077.19	1976 Oct 25 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1533	2443079.20	1976 Oct 27 1644:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1546	2443081.18	1976 Oct 29 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1557	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1558	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1559	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1560	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1561	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1562	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1563	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1564	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1565	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1566	2443082.50	1976 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1571	2443084.20	1976 Nov 1 1647:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1582	2443086.20	1976 Nov 3 1642:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1591	2443087.15	1976 Nov 4 1543:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1610	2443092.20	1976 Nov 9 1654:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1635	2443095.20	1976 Nov 12 1641:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1667	2443101.17	1976 Nov 18 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1671	2443102.20	1976 Nov 19 1643:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1680	2443105.20	1976 Nov 22 1641:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1687	2443106.17	1976 Nov 23 1600:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1696	2443107.22	1976 Nov 24 1719:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1704	2443108.17	1976 Nov 25 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1710	2443109.18	1976 Nov 26 1612:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1732	2443114.17	1976 Dec 1 1609:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1738	2443115.16	1976 Dec 2 1544:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1747	2443116.16	1976 Dec 3 1551:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1766	2443120.23	1976 Dec 7 1733:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1773	2443121.23	1976 Dec 8 1737:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1785	2443122.15	1976 Dec 9 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1790	2443123.15	1976 Dec 10 1534:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1802	2443126.15	1976 Dec 13 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1811	2443127.15	1976 Dec 14 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1822	2443128.15	1976 Dec 15 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1838	2443130.15	1976 Dec 17 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1846	2443133.15	1976 Dec 20 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A80	2443134.23	1976 Dec 21 1732:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1867	2443135.24	1976 Dec 22 1743:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1870	2443136.15	1976 Dec 23 1536:59	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1874	2443137.15	1976 Dec 24 1540:00	Loki Dart	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W05	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W06	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W07	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W08	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W09	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W10	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W11	2443143.50	1977 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W19	2443148.18	1977 Jan 4 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W35	2443149.17	1977 Jan 5 1609:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W70	2443155.68	1977 Jan 12 0425:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W81	2443156.53	1977 Jan 13 0049:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W91	2443158.19	1977 Jan 14 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W101	2443161.20	1977 Jan 17 1652:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W122	2443163.22	1977 Jan 19 1715:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W135	2443164.17	1977 Jan 20 1610:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W143	2443165.16	1977 Jan 21 1553:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W184	2443170.17	1977 Jan 26 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W237	2443175.18	1977 Jan 31 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W13	2443147.16	1977 Jan 3 1545:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W227	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W228	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W229	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W230	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W231	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W232	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W233	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W234	2443174.50	1977 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W402	2443198.63	1977 Feb 24 0307:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W419	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W420	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W421	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W422	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W423	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W424	2443202.50	1977 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W435	2443204.64	1977 Mar 2 0326:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W454	2443206.60	1977 Mar 4 0226:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W473	2443211.16	1977 Mar 8 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W493	2443214.18	1977 Mar 11 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W504	2443217.20	1977 Mar 14 1643:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W510	2443218.24	1977 Mar 15 1746:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W518	2443219.18	1977 Mar 16 1612:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W530	2443220.61	1977 Mar 18 0240:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W540	2443221.62	1977 Mar 19 0248:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W546	2443225.19	1977 Mar 22 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A17	2443227.17	1977 Mar 24 1604:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W573	2443228.18	1977 Mar 25 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W580	2443231.17	1977 Mar 28 1557:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W596	2443233.18	1977 Mar 30 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W612	2443235.19	1977 Apr 1 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W661	2443247.17	1977 Apr 13 1606:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W679	2443249.19	1977 Apr 15 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W699	2443254.18	1977 Apr 20 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W714	2443256.18	1977 Apr 22 1612:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W723	2443259.17	1977 Apr 25 1606:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W737	2443261.19	1977 Apr 27 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W747	2443263.12	1977 Apr 29 1447:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W756	2443263.50	1977 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W763	2443266.18	1977 May 2 1623:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W779	2443268.19	1977 May 4 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W795	2443270.19	1977 May 6 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W804	2443273.19	1977 May 9 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W828	2443277.18	1977 May 13 1625:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W835	2443280.18	1977 May 16 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W855	2443282.19	1977 May 18 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W905	2443291.20	1977 May 27 1648:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W921	2443294.19	1977 May 30 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W935	2443296.22	1977 Jun 1 1712:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W970	2443303.21	1977 Jun 8 1701:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1010	2443310.19	1977 Jun 15 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1052	2443317.18	1977 Jun 22 1625:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1099	2443324.21	1977 Jun 29 1707:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1101	2443324.50	1977 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1102	2443324.50	1977 Jul	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1128	2443331.15	1977 Jul 6 1538:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1195	2443345.20	1977 Jul 20 1641:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1254	2443352.22	1977 Jul 27 1710:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1283	2443355.50	1977 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1284	2443355.50	1977 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1285	2443355.50	1977 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1286	2443355.50	1977 Aug	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1305	2443359.19	1977 Aug 3 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1318	2443361.18	1977 Aug 5 1617:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1330	2443364.10	1977 Aug 8 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1350	2443368.20	1977 Aug 12 1641:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1359	2443371.18	1977 Aug 15 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1367	2443373.19	1977 Aug 17 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1379	2443375.21	1977 Aug 19 1709:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1384	2443378.20	1977 Aug 22 1654:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1391	2443380.10	1977 Aug 24 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1405	2443382.18	1977 Aug 26 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1410	2443385.10	1977 Aug 29 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1424	2443387.17	1977 Aug 31 1607:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1420	2443386.50	1977 Sep	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1431	2443389.18	1977 Sep 2 1622:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1443	2443394.20	1977 Sep 7 1647:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1450	2443396.20	1977 Sep 9 1643:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1475	2443403.17	1977 Sep 16 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1483	2443406.20	1977 Sep 19 1652:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1491	2443408.19	1977 Sep 21 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1505	2443410.10	1977 Sep 23 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1515	2443413.19	1977 Sep 26 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1524	2443415.10	1977 Sep 28 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1541	2443417.18	1977 Sep 30 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1535	2443416.50	1977 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1536	2443416.50	1977 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1558	2443422.18	1977 Oct 5 1623:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1564	2443424.17	1977 Oct 7 1608:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1579	2443429.21	1977 Oct 12 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1601	2443436.10	1977 Oct 19 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1616	2443438.10	1977 Oct 21 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1625	2443441.10	1977 Oct 24 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1645	2443445.18	1977 Oct 28 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1655	2443448.17	1977 Oct 31 1600:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1649	2443447.50	1977 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1650	2443447.50	1977 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1651	2443447.50	1977 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1652	2443447.50	1977 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1653	2443447.50	1977 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1667	2443450.20	1977 Nov 2 1647:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1675	2443452.20	1977 Nov 4 1649:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1683	2443455.19	1977 Nov 7 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1691	2443456.15	1977 Nov 8 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1698	2443457.20	1977 Nov 9 1654:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1705	2443458.19	1977 Nov 10 1626:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1718	2443462.23	1977 Nov 14 1726:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1725	2443463.19	1977 Nov 15 1632:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1729	2443464.16	1977 Nov 16 1556:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1740	2443465.19	1977 Nov 17 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1755	2443470.20	1977 Nov 22 1644:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1762	2443471.20	1977 Nov 23 1654:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1769	2443473.18	1977 Nov 25 1625:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1776	2443476.20	1977 Nov 28 1648:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1783	2443477.15	1977 Nov 29 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1796	2443478.19	1977 Nov 30 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1787	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1788	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1789	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1790	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1791	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1792	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1793	2443477.50	1977 Dec	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W1807	2443480.15	1977 Dec 2 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1817	2443483.19	1977 Dec 5 1633:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1823	2443484.20	1977 Dec 6 1645:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1828	2443485.17	1977 Dec 7 1602:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1839	2443487.19	1977 Dec 9 1630:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1845	2443490.18	1977 Dec 12 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1850	2443491.18	1977 Dec 13 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1860	2443492.20	1977 Dec 14 1643:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1875	2443494.21	1977 Dec 16 1703:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1884	2443498.18	1977 Dec 20 1612:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1890	2443499.24	1977 Dec 21 1748:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1896	2443500.20	1977 Dec 22 1641:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1899	2443501.19	1977 Dec 23 1629:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1905	2443507.15	1977 Dec 29 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W01	2443512.15	1978 Jan 3 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W10	2443513.22	1978 Jan 4 1720:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W15	2443514.17	1978 Jan 5 1611:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W18	2443515.15	1978 Jan 6 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W59	2443527.18	1978 Jan 18 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W68	2443528.15	1978 Jan 19 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W71	2443529.19	1978 Jan 20 1637:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W79	2443532.18	1978 Jan 23 1621:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W85	2443533.16	1978 Jan 24 1546:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W92	2443534.19	1978 Jan 25 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W100	2443535.18	1978 Jan 26 1614:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W104	2443536.21	1978 Jan 27 1658:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W109	2443539.19	1978 Jan 30 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W116	2443540.15	1978 Jan 31 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W122	2443541.21	1978 Feb 1 1703:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W126	2443542.18	1978 Feb 2 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W137	2443546.16	1978 Feb 6 1556:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W145	2443547.54	1978 Feb 8 0053:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W149	2443548.18	1978 Feb 8 1624:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W155	2443549.20	1978 Feb 9 1648:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W161	2443550.15	1978 Feb 10 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W166	2443553.20	1978 Feb 13 1644:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W172	2443554.20	1978 Feb 14 1652:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W179	2443555.17	1978 Feb 15 1611:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W189	2443556.18	1978 Feb 16 1622:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W196	2443557.19	1978 Feb 17 1633:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A07	2443560.18	1978 Feb 20 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W209	2443561.19	1978 Feb 21 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W221	2443562.21	1978 Feb 22 1656:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W231	2443563.61	1978 Feb 24 0242:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W255	2443567.50	1978 Feb 28 0000:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W247	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W248	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W249	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W250	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W251	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W252	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W253	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W254	2443567.50	1978 Mar	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W266	2443569.56	1978 Mar 2 0130:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W279	2443575.59	1978 Mar 8 0204:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W293	2443576.57	1978 Mar 9 0141:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W295	2443577.58	1978 Mar 10 0149:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W310	2443582.56	1978 Mar 15 0121:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W319	2443583.56	1978 Mar 16 0129:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W327	2443585.56	1978 Mar 18 0119:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W337	2443589.15	1978 Mar 21 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W342	2443590.19	1978 Mar 22 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W377	2443597.58	1978 Mar 30 0153:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W379	2443598.19	1978 Mar 30 1636:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W386	2443599.16	1978 Mar 31 1554:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W381	2443598.50	1978 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W382	2443598.50	1978 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W383	2443598.50	1978 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W400	2443604.64	1978 Apr 6 0322:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W408	2443606.59	1978 Apr 8 0214:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W415	2443609.50	1978 Apr 11 0000:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W421	2443611.20	1978 Apr 12 1647:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W441	2443616.29	1978 Apr 17 1859:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W447	2443618.15	1978 Apr 19 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W454	2443620.17	1978 Apr 21 1600:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W461	2443625.18	1978 Apr 26 1613:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W468	2443627.24	1978 Apr 28 1740:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W471	2443628.50	1978 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W472	2443628.50	1978 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W473	2443628.50	1978 May	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W475	2443630.19	1978 May 1 1627:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W489	2443634.11	1978 May 5 1433:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W495	2443637.10	1978 May 8 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W507	2443639.18	1978 May 10 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W516	2443641.17	1978 May 12 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W559	2443648.15	1978 May 19 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W581	2443653.21	1978 May 24 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W591	2443655.10	1978 May 26 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W597	2443658.10	1978 May 29 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W607	2443660.16	1978 May 31 1554:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W629	2443667.20	1978 Jun 7 1651:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W649	2443674.22	1978 Jun 14 1717:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W674	2443681.16	1978 Jun 21 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W696	2443688.19	1978 Jun 28 1635:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W702	2443690.11	1978 Jun 30 1445:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W717	2443695.19	1978 Jul 5 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A32	2443697.18	1978 Jul 7 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W728	2443700.10	1978 Jul 10 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W739	2443702.22	1978 Jul 12 1720:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W744	2443704.19	1978 Jul 14 1630:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W750	2443707.20	1978 Jul 17 1641:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W760	2443709.20	1978 Jul 19 1642:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W770	2443711.10	1978 Jul 21 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W773	2443714.12	1978 Jul 24 1453:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W783	2443716.17	1978 Jul 26 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W790	2443718.17	1978 Jul 28 1602:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W797	2443721.10	1978 Jul 31 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W811	2443725.19	1978 Aug 4 1638:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W821	2443730.12	1978 Aug 9 1451:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W830	2443732.10	1978 Aug 11 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W836	2443735.11	1978 Aug 14 1433:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W847	2443737.21	1978 Aug 16 1706:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W857	2443739.17	1978 Aug 18 1603:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W865	2443742.16	1978 Aug 21 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W872	2443744.18	1978 Aug 23 1622:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W885	2443746.20	1978 Aug 25 1652:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W893	2443749.19	1978 Aug 28 1629:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W899	2443751.10	1978 Aug 30 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W915	2443753.10	1978 Sep 1 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W935	2443760.01	1978 Sep 8 1217:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W942	2443763.18	1978 Sep 11 1615:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W948	2443764.56	1978 Sep 13 0122:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W950	2443764.98	1978 Sep 13 1137:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W960	2443767.10	1978 Sep 15 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W966	2443770.20	1978 Sep 18 1642:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W976	2443772.21	1978 Sep 20 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W989	2443774.10	1978 Sep 22 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W995	2443777.10	1978 Sep 25 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1005	2443779.16	1978 Sep 27 1551:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1014	2443781.18	1978 Sep 29 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1019	2443781.50	1978 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1020	2443781.50	1978 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1021	2443781.50	1978 Oct	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1025	2443784.19	1978 Oct 2 1634:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1037	2443788.10	1978 Oct 6 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1046	2443793.10	1978 Oct 11 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1057	2443795.10	1978 Oct 13 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1074	2443800.21	1978 Oct 18 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1094	2443807.14	1978 Oct 25 1525:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1102	2443809.10	1978 Oct 27 1430:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1112	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1113	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1114	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1115	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1116	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1117	2443812.50	1978 Nov	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1978-W1121	2443814.18	1978 Nov 1 1622:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1127	2443815.17	1978 Nov 2 1602:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1130	2443816.15	1978 Nov 3 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1135	2443819.16	1978 Nov 6 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1139	2443820.15	1978 Nov 7 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1144	2443821.20	1978 Nov 8 1652:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1151	2443822.26	1978 Nov 9 1814:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1153	2443823.15	1978 Nov 10 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1157	2443826.18	1978 Nov 13 1619:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1162	2443827.15	1978 Nov 14 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1165	2443828.19	1978 Nov 15 1637:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1171	2443829.17	1978 Nov 16 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1175	2443830.16	1978 Nov 17 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1182	2443832.17	1978 Nov 19 1559:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1186	2443833.15	1978 Nov 20 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1192	2443834.18	1978 Nov 21 1620:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1198	2443835.16	1978 Nov 22 1548:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1203	2443836.15	1978 Nov 23 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1211	2443840.16	1978 Nov 27 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1218	2443841.34	1978 Nov 28 2012:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W1220	2443842.19	1978 Nov 29 1640:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1226	2443843.15	1978 Nov 30 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1230	2443844.29	1978 Dec 1 1859:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1241	2443849.22	1978 Dec 6 1715:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1247	2443850.32	1978 Dec 7 1940:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1250	2443851.34	1978 Dec 8 2011:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1256	2443854.15	1978 Dec 11 1537:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1259	2443855.16	1978 Dec 12 1556:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1275	2443858.31	1978 Dec 15 1926:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1277	2443861.15	1978 Dec 18 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1282	2443862.32	1978 Dec 19 1941:59	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1285	2443863.18	1978 Dec 20 1618:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1292	2443864.15	1978 Dec 21 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W01	2443873.50	1979 Jan	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W39	2443879.32	1979 Jan 5 1941:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W48	2443882.33	1979 Jan 8 1955:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W53	2443883.16	1979 Jan 9 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W63	2443884.28	1979 Jan 10 1840:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W68	2443885.18	1979 Jan 11 1618:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W79	2443886.30	1979 Jan 12 1917:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W84	2443889.37	1979 Jan 15 2049:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W86	2443890.31	1979 Jan 16 1929:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W97	2443891.31	1979 Jan 17 1932:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W103	2443892.32	1979 Jan 18 1937:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W108	2443893.15	1979 Jan 19 1533:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W123	2443896.56	1979 Jan 23 0124:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W152	2443900.58	1979 Jan 27 0202:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W160	2443903.30	1979 Jan 29 1908:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-A05	2443904.33	1979 Jan 30 1951:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W173	2443905.17	1979 Jan 31 1601:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W164	2443904.50	1979 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W165	2443904.50	1979 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W166	2443904.50	1979 Feb	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W180	2443906.17	1979 Feb 1 1557:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W188	2443907.27	1979 Feb 2 1835:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-A06	2443910.34	1979 Feb 5 2011:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W200	2443911.33	1979 Feb 6 2001:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W207	2443912.15	1979 Feb 7 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W216	2443913.28	1979 Feb 8 1844:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W225	2443914.29	1979 Feb 9 1857:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W233	2443917.37	1979 Feb 12 2048:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W236	2443918.36	1979 Feb 13 2033:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W243	2443919.32	1979 Feb 14 1935:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W251	2443920.32	1979 Feb 15 1935:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W260	2443921.35	1979 Feb 16 2030:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W266	2443924.27	1979 Feb 19 1831:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W269	2443925.28	1979 Feb 20 1848:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W280	2443926.30	1979 Feb 21 1907:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W285	2443927.36	1979 Feb 22 2038:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W292	2443928.35	1979 Feb 23 2029:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W301	2443931.21	1979 Feb 26 1700:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W304	2443931.27	1979 Feb 26 1823:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W312	2443932.15	1979 Feb 27 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W322	2443933.15	1979 Feb 28 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W330	2443934.15	1979 Mar 1 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W333	2443935.15	1979 Mar 2 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W342	2443938.33	1979 Mar 5 1952:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W352	2443940.34	1979 Mar 7 2004:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W355	2443941.33	1979 Mar 8 1954:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W359	2443942.28	1979 Mar 9 1847:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W370	2443946.36	1979 Mar 13 2045:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W379	2443948.17	1979 Mar 15 1607:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W390	2443952.16	1979 Mar 19 1549:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W397	2443953.15	1979 Mar 20 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W401	2443954.29	1979 Mar 21 1858:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W406	2443955.15	1979 Mar 22 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W411	2443956.36	1979 Mar 23 2043:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W418	2443959.33	1979 Mar 26 1949:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W423	2443960.32	1979 Mar 27 1933:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W429	2443961.33	1979 Mar 28 1951:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W436	2443963.16	1979 Mar 30 1555:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W440	2443963.50	1979 Apr	Loki Dart	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W445	2443966.15	1979 Apr 2 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W451	2443968.15	1979 Apr 4 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W470	2443970.16	1979 Apr 6 1552:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-A20	2443973.17	1979 Apr 9 1559:59	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1979-W485	2443975.15	1979 Apr 11 1530:00	Loki Dart	-	-	0.000	MRN	SS	-	MRN/	Meteo	DSI-5850	-	-
1980-W794	2444472.24	1980 Aug 20 1750:00	Loki Dart	-	FLIGHT 281 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1982-W30	2444985.97	1982 Jan 16 1119:00	Loki Dart	-	TM1-0224	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W31	2444985.99	1982 Jan 16 1144:00	Loki Dart	-	TM1-0225	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W32	2444986.99	1982 Jan 17 1140:00	Loki Dart	-	TM1-0226	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W34	2444987.98	1982 Jan 18 1127:00	Loki Dart	-	TM1-0227	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W41	2444989.73	1982 Jan 20 0530:00	Loki Dart	-	TM1-0229	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W40	2444989.56	1982 Jan 20 0127:00	Loki Dart	-	TM1-0228	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W52	2444993.08	1982 Jan 23 1348:00	Loki Dart	-	TM1-0231	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W53	2444994.05	1982 Jan 24 1305:00	Loki Dart	-	TM1-0232	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W54	2444994.11	1982 Jan 24 1432:00	Loki Dart	-	TM1-0233	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W151	2445028.29	1982 Feb 27 1900:00	Loki Dart	-	T 1-0109	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W163	2445035.29	1982 Mar 06 1902:00	Loki Dart	-	T 1-0120	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W165	2445036.29	1982 Mar 07 1901:00	Loki Dart	-	T 1-0121	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W177	2445042.29	1982 Mar 13 1903:00	Loki Dart	-	T 1-0127	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	DSI-5850	-
1982-W178	2445043.29	1982 Mar 14 1901:00	Loki Dart	-	T 1-0128	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W179	2445044.29	1982 Mar 15 1900:00	Loki Dart	-	T 1-0129	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W188	2445049.29	1982 Mar 20 1900:00	Loki Dart	-	T 1-0134	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W190	2445050.31	1982 Mar 21 1920:00	Loki Dart	-	T 1-0288	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W197	2445052.29	1982 Mar 23 1900:00	Loki Dart	-	T 1-0291	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W437	2445264.85	1982 Oct 22 0822:00	Loki Dart	-	T 1-0442	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W463	2445289.85	1982 Nov 16 0824:00	Loki Dart	-	T 1-0443	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W478	2445297.86	1982 Nov 24 0833:00	Loki Dart	-	T 1-0444	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W489	2445305.85	1982 Dec 02 0827:00	Loki Dart	-	T 1-0450	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W491	2445306.84	1982 Dec 03 0815:00	Loki Dart	-	T 1-0451	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W506	2445323.84	1982 Dec 20 0810:00	Loki Dart	-	T 1-0452	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W10	2445348.85	1983 Jan 14 0822:00	Loki Dart	-	T 1-0471	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W17	2445355.85	1983 Jan 21 0825:00	Loki Dart	-	T 1-0472	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W27	2445372.85	1983 Feb 07 0817:00	Loki Dart	-	T 1-0482	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W35	2445380.85	1983 Feb 15 0822:00	Loki Dart	-	T 1-0484	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W48	2445388.87	1983 Feb 23 0848:00	Loki Dart	-	T 1-0517	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W60	2445397.84	1983 Mar 04 0815:00	Loki Dart	-	T 1-0492	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W71	2445404.86	1983 Mar 11 0835:00	Loki Dart	-	T 1-0494	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W76	2445408.31	1983 Mar 14 1920:00	Loki Dart	-	T 1-0496	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W89	2445416.31	1983 Mar 22 1925:00	Loki Dart	-	T 1-0500	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W97	2445421.85	1983 Mar 28 0830:00	Loki Dart	-	T 1-0502	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W102	2445424.31	1983 Mar 30 1925:00	Loki Dart	-	T 1-0506	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W107	2445430.85	1983 Apr 06 0820:00	Loki Dart	-	T 1-0490	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W108	2445430.86	1983 Apr 06 0841:00	Loki Dart	-	T 1-0529	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W123	2445440.32	1983 Apr 15 1935:00	Loki Dart	-	T 1-0166	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W133	2445457.32	1983 May 02 1935:00	Loki Dart	-	T 1-0498	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W145	2445465.31	1983 May 10 1930:00	Loki Dart	-	T 1-0525	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W158	2445471.85	1983 May 17 0820:00	Loki Dart	-	T 1-0527	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W164	2445479.10	1983 May 24 1430:00	Loki Dart	-	T 1-0541	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W177	2445487.85	1983 Jun 02 0825:00	Loki Dart	-	T 1-0530	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W184	2445495.84	1983 Jun 10 0815:00	Loki Dart	-	T 1-0532	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W186	2445499.30	1983 Jun 13 1915:00	Loki Dart	-	T 1-0550	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W192	2445506.31	1983 Jun 20 1920:00	Loki Dart	-	T 1-0534	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W201	2445512.84	1983 Jun 27 0815:00	Loki Dart	-	T 1-0536	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W203	2445514.32	1983 Jun 28 1938:00	Loki Dart	-	T 1-0538	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W207	2445516.50	1983 Jul 01 0001:00	Loki Dart	-	T 1-0642	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W210	2445523.29	1983 Jul 07 1900:00	Loki Dart	-	T 1-0644	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W211	2445528.84	1983 Jul 13 0815:00	Loki Dart	-	T 1-0646	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W215	2445531.32	1983 Jul 15 1938:00	Loki Dart	-	T 1-0648	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W219	2445536.85	1983 Jul 21 0829:00	Loki Dart	-	T 1-0661	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W224	2445544.84	1983 Jul 29 0815:00	Loki Dart	-	T 1-0654	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W225	2445545.03	1983 Jul 29 1250:00	Loki Dart	-	T 1-0656	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W234	2445557.02	1983 Aug 10 1230:00	Loki Dart	-	T 1-0658	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W249	2445579.03	1983 Sep 01 1245:00	Loki Dart	-	T 1-0666	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W270	2445593.03	1983 Sep 15 1245:00	Loki Dart	-	T 1-0668	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W274	2445597.30	1983 Sep 19 1914:00	Loki Dart	-	T 1-0670	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W275	2445598.03	1983 Sep 20 1245:00	Loki Dart	-	T 1-0672	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W286	2445612.50	1983 Oct 04 2355:00	Loki Dart	-	T 1-0712	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W292	2445621.50	1983 Oct 14 0000:00	Loki Dart	-	T 1-0714	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W302	2445635.51	1983 Oct 28 0012:00	Loki Dart	-	T 1-0791	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W304	2445639.04	1983 Oct 31 1258:00	Loki Dart	-	T 1-0718	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W315	2445649.49	1983 Nov 10 2350:00	Loki Dart	-	T 1-0779	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W316	2445653.03	1983 Nov 14 1245:00	Loki Dart	-	T 1-0781	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W325	2445662.03	1983 Nov 23 1250:00	Loki Dart	-	T 1-0783	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W344	2445676.04	1983 Dec 07 1255:00	Loki Dart	-	T 1-0787	0.000	WFC	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W373	2445690.04	1983 Dec 21 1255:00	Loki Dart	-	T 1-0789	0.000	WFC	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1984-W09	2445709.50	1984 Jan 09 2359:00	Loki Dart	-	T 1-0800	0.000	WFC	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1984-W68	2445742.02	1984 Feb 11 1230:00	Loki Dart	-	T 1-0785	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W99	2445760.50	1984 Feb 29 2359:00	Loki Dart	-	T 1-0863	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W108	2445774.51	1984 Mar 15 0014	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W122	2445788.52	1984 Mar 29 0026:00	Loki Dart	-	T 1-0867	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W166	2445816.49	1984 Apr 25 2345	Loki Dart	-	-	0.000	WFC	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W175	2445828.99	1984 May 08 1145:00	Loki Dart	-	T 1-0857	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1985-W220	2446285.12	1985 Aug 07 1500:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W227	2446308.12	1985 Aug 30 1500:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W236	2446314.04	1985 Sep 05 1300:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W240	2446320.29	1985 Sep 11 1855:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W249	2446328.56	1985 Sep 20 0130:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W250	2446329.55	1985 Sep 21 0119:00	Loki Dart	-	LOKI DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W251	2446329.60	1985 Sep 21 0219	Loki Dart	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1985-W252	2446329.64	1985 Sep 21 0319	Loki Dart	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1985-W263	2446348.26	1985 Oct 09 1813:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W268	2446355.32	1985 Oct 16 1947:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W274	2446367.28	1985 Oct 28 1845:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W294	2446376.28	1985 Nov 06 1850:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-A12	2446385.08	1985 Nov 15 1400:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W300	2446390.29	1985 Nov 20 1900:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-A14	2446395.29	1985 Nov 25 1857:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W322	2446405.29	1985 Dec 05 1900:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W324	2446407.64	1985 Dec 8 0315	Loki Dart	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1985-W326	2446409.50	1985 Dec 10 0000:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W329	2446410.54	1985 Dec 11 0100:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W332	2446411.48	1985 Dec 11 2330:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W336	2446416.25	1985 Dec 16 1800:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-A17	2446416.60	1985 Dec 17 0230:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-A18	2446417.50	1985 Dec 18 0000:00	Loki Dart	-	LOKI	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W342	2446417.61	1985 Dec 18 0236:00	Loki Dart	-	PWN-8B	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W344	2446423.29	1985 Dec 23 1900:00	Loki Dart	-	LOKI PWN-8B	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W348	2446430.12	1985 Dec 30 1500:00	Loki Dart	-	LOKI PWN-8B	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-

						Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S115	2436111.50	1957 Oct	Long Tom	-	LT1	-	-	-	-	WOO	LA2 SL	-	-	100?	-	-
1958-S01	2436203.50	1958	Long Tom	-	LT2?	-	-	-	-	WOO	LA2 SL	-	-	100?	-	-
1958-S02	2436203.50	1958	Long Tom	-	LT3?	-	-	-	-	WOO	LA2 SL	-	-	100?	-	-
1958-S03	2436203.50	1958	Long Tom	-	LT4?	-	-	-	-	WOO	LA2 LT	-	-	100?	-	-
1958-S04	2436203.50	1958	Long Tom	-	LT5?	-	-	-	-	WOO	LA2 LT	-	-	100?	-	-
1958-S05	2436203.50	1958	Long Tom	-	LT6?	-	-	-	-	WOO	LA2 LT	-	-	100?	-	-
1958-M27	2436541.55	1958 Dec 4 0113	Aeolus	-	-	AL1	-	-	-	WOO	LA2 LT	-	-	78	-	-
1959-S58	2436688.50	1959 May	Long Tom	-	LT7?	-	-	-	-	WOO	LA2 LT	-	-	100?	-	-
1959-S02	2436568.50	1959?	Aeolus	-	-	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1959-S292	2436568.50	1959?	Long Tom	-	LT8	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1960-S01	2436933.50	1960?	Aeolus	-	-	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1960-S02	2436933.50	1960?	Aeolus	-	-	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1960-S431	2436933.50	1960	HAT	-	HAT01	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1960-S432	2436933.50	1960?	Long Tom	-	LT9	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1960-S433	2436933.50	1960?	Long Tom	-	LT10	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1960-S434	2436933.50	1960?	Long Tom	-	LT11	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1960-S59	2437016.97	1960 Mar 23 1120	Aeolus	-	-	AL5	-	-	-	WOO	LA2 LT	-	-	81	-	-
1960-S202	2437144.32	1960 Jul 28 1936	Long Tom	-	LT12	-	-	-	-	WOO	LA2 LT	-	-	126	-	-
1961-S02	2437299.50	1961?	Aeolus	-	-	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1961-S03	2437299.50	1961?	Aeolus	-	-	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1961-S458	2437299.50	1961?	Long Tom	-	LT13	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1962-S151	2437815.63	1962 May 31 0301	Long Tom	-	LT14	Weather imaging	-	-	-	WOO	LA2 LT	-	-	137	-	-
1963-Y01	2438198.69	1963 Jun 18 0430:00	HAT	?	-	-	-	-	-	WOO	LA2 LT	-	-	88	-	-
1963-Y08	2438318.13	1963 Oct 15 1509:00	HAT	?	-	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1963-Y09	2438318.31	1963 Oct 15 1922:00	HAT	?	-	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1964-S788	2438394.50	1964?	Long Tom	-	LT15	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1968-S665	2439855.50	1968	HAT	-	-	Explorer 37 cal	-	-	-	WOO	LA2 LT?	-	-	80?	-	-
1969-S717	2440427.50	1969 Jul 25	HAT	-	WRE HAT 54	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1971-S647	2441279.90	1971 Nov 24 0936	HAT	-	WRE HAT 637	-	-	-	-	WOO	LA2 LT	-	-	81	-	-
1972-S472	2441517.84	1972 Jul 19 0815	HAT	-	WRE HAT 638	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-
1972-S473	2441601.88	1972 Oct 11 0903	HAT	-	WRE HAT 639	-	-	-	-	WOO	LA2 LT	-	-	80?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S115	2436111.50	1957 Oct	Long Tom	-	LT1	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-S01	2436203.50	1958	Long Tom	-	LT2?	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-S02	2436203.50	1958	Long Tom	-	LT3?	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-S03	2436203.50	1958	Long Tom	-	LT4?	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-S04	2436203.50	1958	Long Tom	-	LT5?	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-S05	2436203.50	1958	Long Tom	-	LT6?	0.000	WRE	SS	-	WRE/	Test	Morton	-	-
1958-M27	2436541.55	1958 Dec 4 0113	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	IGY36-579	-	-
1959-S58	2436688.50	1959 May	Long Tom	-	LT7?	0.000	WRE	SS	-	WRE/	Test/Aeron	Morton	-	-
1959-S02	2436568.50	1959?	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	Alway	-	-
1959-S292	2436568.50	1959?	Long Tom	-	LT8	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1960-S01	2436933.50	1960?	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	Alway	-	-
1960-S02	2436933.50	1960?	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	Alway	-	-
1960-S431	2436933.50	1960	HAT	-	HAT01	0.000	WRE	SS	-	WRE/	Aeron	JBIS25,61	-	-
1960-S432	2436933.50	1960?	Long Tom	-	LT9	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1960-S433	2436933.50	1960?	Long Tom	-	LT10	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1960-S434	2436933.50	1960?	Long Tom	-	LT11	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1960-S59	2437016.97	1960 Mar 23 1120	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1960-S202	2437144.32	1960 Jul 28 1936	Long Tom	-	LT12	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1961-S02	2437299.50	1961?	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	Alway	-	-
1961-S03	2437299.50	1961?	Aeolus	-	-	0.000	WRE	SS	-	WRE/	Aeron	Alway	-	-
1961-S458	2437299.50	1961?	Long Tom	-	LT13	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1962-S151	2437815.63	1962 May 31 0301	Long Tom	-	LT14	0.000	WRE	SS	-	WRE/	Aeron	IGY36	WRE-TN-SAD184	WDCRF
1963-Y01	2438198.69	1963 Jun 18 0430:00	HAT	?	-	0.000	WRE	SU	-	WRE/	Ionos	WDCRF	-	-
1963-Y08	2438318.13	1963 Oct 15 1509:00	HAT	?	-	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	-	-
1963-Y09	2438318.31	1963 Oct 15 1922:00	HAT	?	-	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	-	-
1964-S788	2438394.50	1964?	Long Tom	-	LT15	0.000	WRE	SU	-	WRE/	Aeron	JBIS25,61	-	-
1968-S665	2439855.50	1968	HAT	-	-	0.000	WRE	SS	-	WRE/	Aeron	Morton	-	-
1969-S717	2440427.50	1969 Jul 25	HAT	-	WRE HAT 54	0.000	WRE	SS	-	WRE/	Aeron	FDC	JBIS25,61	-
1971-S647	2441279.90	1971 Nov 24 0936	HAT	-	WRE HAT 637	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S472	2441517.84	1972 Jul 19 0815	HAT	-	WRE HAT 638	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S473	2441601.88	1972 Oct 11 0903	HAT	-	WRE HAT 639	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-M38	2437660.50	1961 Dec 27	Luna-M	-	-	First launch	-	-	-	GTsP-4	-	-	-	70?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-M38	2437660.50	1961 Dec 27	Luna-M	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-M34	2440084.56	1968 Aug 16 0133	Kookaburra	-	WRE K113	Met	-	-	-	WOO	-	-	-	74	-	-
1968-M35	2440103.95	1968 Sep 4 1042	Kookaburra	-	WRE K115	Met	-	-	-	WOO	-	-	-	73	-	-
1968-M36	2440118.02	1968 Sep 18 1233	Kookaburra	-	WRE K114	Met	-	-	-	WOO	-	-	-	76	-	-
1968-M37	2440138.52	1968 Oct 9 0026	Kookaburra	-	WRE K119	Met	-	-	-	WOO	-	-	-	78	-	-
1968-M38	2440139.56	1968 Oct 10 0133	Kookaburra	-	WRE K117	Met	-	-	-	WOO	-	-	-	70	-	-
1968-S663	2440168.37	1968 Nov 7 2047	Kookaburra	-	WRE K118	Met	-	-	-	WOO	-	-	-	91	-	-
1968-M39	2440179.98	1968 Nov 19 1134	Kookaburra	-	WRE K120	Met	-	-	-	WOO	-	-	-	73	-	-
1968-S664	2440181.25	1968 Nov 20 1803	Kookaburra	-	WRE K123	Met	-	-	-	WOO	-	-	-	80	-	-
1969-M35	2440564.57	1969 Dec 09 0141:00	Kookaburra	-	WRE K138	-	-	-	-	WOO	LA2	-	-	73	-	-
1970-S198	2440651.60	1970 Mar 06 0231:00	Kookaburra	-	WRE K140	-	-	-	-	WOO	LA2	-	-	93	-	-
1970-S240	2440655.65	1970 Mar 10 0333:00	Kookaburra	-	WRE K139	-	-	-	-	WOO	LA2	-	-	88	-	-
1970-M10	2440657.66	1970 Mar 12 0348:00	Kookaburra	-	WRE K141	-	-	-	-	WOO	LA2	-	-	80?	-	-
1970-A32	2440661.60	1970 Mar 16 0229:00	Kookaburra	-	WRE K142	-	-	-	-	WOO	LA2	-	-	38	-	-
1970-S362	2440727.62	1970 May 21 0256:00	Kookaburra	-	WRE K143	-	-	-	-	WOO	LA2	-	-	85	-	-
1970-S370	2440732.65	1970 May 26 0338:00	Kookaburra	-	WRE K144	-	-	-	-	WOO	LA2	-	-	87	-	-
1970-S673	2440733.12	1970 May 26 1453	Kookaburra	-	WRE K145	-	-	-	-	WOO	LA2	-	-	43?	-	-
1970-S429	2440781.62	1970 Jul 14 0247:00	Kookaburra	-	WRE K146	-	-	-	-	WOO	LA2	-	-	85	-	-
1970-S674	2440829.88	1970 Aug 31 0903	Kookaburra	-	WRE K147	-	-	-	-	WOO	LA2	-	-	85?	-	-
1970-S675	2440880.89	1970 Oct 21 0918	Kookaburra	-	WRE K148	-	-	-	-	WOO	LA2	-	-	85?	-	-
1970-A167	2440880.90	1970 Oct 21 0939	Kookaburra	-	WRE K149	-	-	-	-	WOO	LA2	-	-	20?	-	-
1970-S676	2440896.19	1970 Nov 5 1633	Kookaburra	-	WRE K151	-	-	-	-	WOO	LA2	-	-	85?	-	-
1970-A168	2440896.65	1970 Nov 6 0336	Kookaburra	-	WRE K150	-	-	-	-	WOO	LA2	-	-	20?	-	-
1971-S638	2440984.61	1971 Feb 2 0232	Kookaburra	-	WRE K152	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-A169	2441013.26	1971 Mar 2 1810	Kookaburra	-	WRE K153	-	-	-	-	WOO	LA2	-	-	0?	-	-
1971-S639	2441089.61	1971 May 18 0237	Kookaburra	-	WRE K154	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S640	2441089.86	1971 May 18 0839	Kookaburra	-	WRE K155	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S641	2441124.61	1971 Jun 22 0245	Kookaburra	-	WRE K156	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S642	2441151.86	1971 Jul 19 0837	Kookaburra	-	WRE K1057	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S643	2441152.62	1971 Jul 20 0248	Kookaburra	-	WRE K1058	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S644	2441215.56	1971 Sep 21 0130	Kookaburra	-	WRE K1059	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S645	2441242.90	1971 Oct 18 0939	Kookaburra	-	WRE K1060	-	-	-	-	WOO	LA2	-	-	85?	-	-
1971-S646	2441281.60	1971 Nov 26 0230	Kookaburra	-	WRE K1061	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S465	2441370.65	1972 Feb 23 0334	Kookaburra	-	WRE K1062	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S466	2441398.62	1972 Mar 22 0300	Kookaburra	-	WRE K1063	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S467	2441426.61	1972 Apr 19 0245	Kookaburra	-	WRE K1064	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-A131	2441455.60	1972 May 18 0230	Kookaburra	-	WRE K1065	-	-	-	-	WOO	LA2	-	-	20?	-	-
1972-S468	2441552.60	1972 Aug 23 0230	Kookaburra	-	WRE K1066	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S469	2441573.67	1972 Sep 13 0400	Kookaburra	-	WRE K1067	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S470	2441636.62	1972 Nov 15 0250	Kookaburra	-	WRE K1069	-	-	-	-	WOO	LA2	-	-	85?	-	-
1972-S471	2441664.63	1972 Dec 13 0306	Kookaburra	-	WRE K1070	-	-	-	-	WOO	LA2	-	-	85?	-	-
1973-S546	2441762.50	1973 Mar 21	Kookaburra	-	WRE K1072	-	-	-	-	WOO	LA2	-	-	85?	-	-
1973-S547	2441791.50	1973 Apr 19	Kookaburra	-	WRE K1073	-	-	-	-	WOO	LA2	-	-	85?	-	-
1973-S548	2441881.50	1973 Jul 18	Kookaburra	-	WRE K1074	-	-	-	-	WOO	LA2	-	-	85?	-	-
1973-S311	2441944.89	1973 Sep 19 0917:00	Kookaburra 2	-	WRE K2007	-	-	-	-	WOO	LA2	-	-	121	-	-
1973-S348	2441972.90	1973 Oct 17 0933:00	Kookaburra 2	-	WRE K2008	-	-	-	-	WOO	LA2	-	-	118	-	-
1973-S399	2442007.92	1973 Nov 21 1008:00	Kookaburra 2	-	WRE K2009	-	-	-	-	WOO	LA2	-	-	114	-	-
1976-S367	2442833.92	1976 Feb 25 1003	Kookaburra 2	-	WRE K2021	-	-	-	-	WOO	LA2	-	-	100?	-	-
1976-S220	2442959.50	1976 Jun 30	Kookaburra 3	-	-	-	-	-	-	WOO	LA2	-	-	120?	-	-
1976-A89	2443112.50	1976 Nov 30	ADTV	-	WSRL ADTV1	-	-	-	-	WOO	LA2?	-	-	1?	-	-
1977-A54	2443379.50	1977 Aug 24	ADTV	-	WSRL ADTV2	-	-	-	-	WOO	LA2?	-	-	1?	-	-
1977-A55	2443441.50	1977 Oct 25	ADTV	-	WSRL ADTV3	Falling Sphere	-	-	-	WOO	LA2?	-	-	17	-	-
1977-A56	2443469.50	1977 Nov 22	ADTV	-	WSRL ADTV4	Falling Sphere	-	-	-	WOO	LA2?	-	-	18	-	-
1977-A57	2443470.50	1977 Nov 23	ADTV	-	WSRL ADTV4	Falling Sphere	-	-	-	WOO	LA2?	-	-	18	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-M34	2440084.56	1968 Aug 16 0133	Kookaburra	-	WRE K113	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M35	2440103.95	1968 Sep 4 1042	Kookaburra	-	WRE K115	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M36	2440118.02	1968 Sep 18 1233	Kookaburra	-	WRE K114	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M37	2440138.52	1968 Oct 9 0026	Kookaburra	-	WRE K119	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M38	2440139.56	1968 Oct 10 0133	Kookaburra	-	WRE K117	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S663	2440168.37	1968 Nov 7 2047	Kookaburra	-	WRE K118	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M39	2440179.98	1968 Nov 19 1134	Kookaburra	-	WRE K120	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S664	2440181.25	1968 Nov 20 1803	Kookaburra	-	WRE K123	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1969-M35	2440564.57	1969 Dec 09 0141:00	Kookaburra	-	WRE K138	0.000	WRE	SU	-	WRE/	Aeron	WDCRF	-	-
1970-S198	2440651.60	1970 Mar 06 0231:00	Kookaburra	-	WRE K140	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1970-S240	2440655.65	1970 Mar 10 0333:00	Kookaburra	-	WRE K139	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1970-M10	2440657.66	1970 Mar 12 0348:00	Kookaburra	-	WRE K141	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1970-A32	2440661.60	1970 Mar 16 0229:00	Kookaburra	-	WRE K142	0.000	WRE	SF	U	WRE/	Aeron	WDCRF	-	-
1970-S362	2440727.62	1970 May 21 0256:00	Kookaburra	-	WRE K143	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	-	-
1970-S370	2440732.65	1970 May 26 0338:00	Kookaburra	-	WRE K144	0.000	WRE	SS	-	WRE/	Aeron	WDCRF	WRE-TN1089	-
1970-S673	2440733.12	1970 May 26 1453	Kookaburra	-	WRE K145	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1970-S429	2440781.62	1970 Jul 14 0247:00	Kookaburra	-	WRE K146	0.000	WRE	SS	-	WRE/	Aeron	FDC	WDCRF	-
1970-S674	2440829.88	1970 Aug 31 0903	Kookaburra	-	WRE K147	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1970-S675	2440880.89	1970 Oct 21 0918	Kookaburra	-	WRE K148	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1970-A167	2440880.90	1970 Oct 21 0939	Kookaburra	-	WRE K149	0.000	WRE	SF	U	WRE/	Aeron	WRE-TN988	-	-
1970-S676	2440896.19	1970 Nov 5 1633	Kookaburra	-	WRE K151	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1970-A168	2440896.65	1970 Nov 6 0336	Kookaburra	-	WRE K150	0.000	WRE	SF	U	WRE/	Aeron	WRE-TN988	-	-
1971-S638	2440984.61	1971 Feb 2 0232	Kookaburra	-	WRE K152	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-A169	2441013.26	1971 Mar 2 1810	Kookaburra	-	WRE K153	0.000	WRE	SF	U	WRE/	Aeron	WRE-TN988	-	-
1971-S639	2441089.61	1971 May 18 0237	Kookaburra	-	WRE K154	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S640	2441089.86	1971 May 18 0839	Kookaburra	-	WRE K155	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S641	2441124.61	1971 Jun 22 0245	Kookaburra	-	WRE K156	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S642	2441151.86	1971 Jul 19 0837	Kookaburra	-	WRE K1057	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S643	2441152.62	1971 Jul 20 0248	Kookaburra	-	WRE K1058	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S644	2441215.56	1971 Sep 21 0130	Kookaburra	-	WRE K1059	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S645	2441242.90	1971 Oct 18 0939	Kookaburra	-	WRE K1060	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1971-S646	2441281.60	1971 Nov 26 0230	Kookaburra	-	WRE K1061	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	Note FDC Nov 25
1972-S465	2441370.65	1972 Feb 23 0334	Kookaburra	-	WRE K1062	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S466	2441398.62	1972 Mar 22 0300	Kookaburra	-	WRE K1063	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S467	2441426.61	1972 Apr 19 0245	Kookaburra	-	WRE K1064	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-A131	2441455.60	1972 May 18 0230	Kookaburra	-	WRE K1065	0.000	WRE	SF	U	WRE/	Aeron	WRE-TN988	-	-
1972-S468	2441552.60	1972 Aug 23 0230	Kookaburra	-	WRE K1066	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S469	2441573.67	1972 Sep 13 0400	Kookaburra	-	WRE K1067	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S470	2441636.62	1972 Nov 15 0250	Kookaburra	-	WRE K1069	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1972-S471	2441664.63	1972 Dec 13 0306	Kookaburra	-	WRE K1070	0.000	WRE	SS	-	WRE/	Aeron	WRE-TN988	-	-
1973-S546	2441762.50	1973 Mar 21	Kookaburra	-	WRE K1072	0.000	WRE	SS	-	WRE/	Aeron	WSRL-0012-TR	-	-
1973-S547	2441791.50	1973 Apr 19	Kookaburra	-	WRE K1073	0.000	WRE	SS	-	WRE/	Aeron	WSRL-0012-TR	-	-
1973-S548	2441881.50	1973 Jul 18	Kookaburra	-	WRE K1074	0.000	WRE	SS	-	WRE/	Aeron	WSRL-0012-TR	-	-
1973-S311	2441944.89	1973 Sep 19 0917:00	Kookaburra 2	-	WRE K2007	0.000	WRE	SU	-	WRE/Pearson	Aeron	WDCRF	-	-
1973-S348	2441972.90	1973 Oct 17 0933:00	Kookaburra 2	-	WRE K2008	0.000	WRE	SU	-	WRE/Pearson	Aeron	WDCRF	-	-
1973-S399	2442007.92	1973 Nov 21 1008:00	Kookaburra 2	-	WRE K2009	0.000	WRE	SU	-	WRE/Pearson	Aeron	WDCRF	-	-
1976-S367	2442833.92	1976 Feb 25 1003	Kookaburra 2	-	WRE K2021	0.000	WRE	SS	-	WRE/	Aeron	FDC/Ulrich	-	-
1976-S220	2442959.50	1976 Jun 30	Kookaburra 3	-	-	0.000	WRE	SS	-	WRE/	Aeron?	users.senet.com.au	-	-
1976-A89	2443112.50	1976 Nov 30	ADTV	-	WSRL ADTV1	0.000	WRE	AF	U	WRE/	Test	WSRL-0004-TR	-	-
1977-A54	2443379.50	1977 Aug 24	ADTV	-	WSRL ADTV2	0.000	WRE	AF	U	WRE/	Test	WSRL-0004-TR	-	-
1977-A55	2443441.50	1977 Oct 25	ADTV	-	WSRL ADTV3	0.000	WRE	AS	-	WRE/	Test	WSRL-0004-TR	-	No eject
1977-A56	2443469.50	1977 Nov 22	ADTV	-	WSRL ADTV4	0.000	WRE	AS	-	WRE/	Test	WSRL-0004-TR	-	No eject
1977-A57	2443470.50	1977 Nov 23	ADTV	-	WSRL ADTV4	0.000	WRE	AS	-	WRE/	Test	WSRL-0004-TR	-	No eject

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-Y01	2436030.59	1957 Jul 11 0205	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y02	2436046.60	1957 Jul 27 0220	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y03	2436064.68	1957 Aug 14 0423	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y04	2436069.63	1957 Aug 19 0313	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y05	2436095.62	1957 Sep 14 0300	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y06	2436098.62	1957 Sep 17 0300	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y07	2436101.60	1957 Sep 20 0230	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y08	2436146.83	1957 Nov 4 0755	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1957-Y09	2436188.69	1957 Dec 16 0435	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y10	2436188.69	1957 Dec 16 0435	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1957-Y11	2436193.69	1957 Dec 21 0440	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1957-Y12	2436193.69	1957 Dec 21 0440	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1957-Y13	2436193.86	1957 Dec 21 0845	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y01	2436213.81	1958 Jan 10 0727	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y02	2436222.86	1958 Jan 19 0845	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y03	2436222.91	1958 Jan 19 0945	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y04	2436223.47	1958 Jan 19 2321	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y10	2436244.86	1958 Feb 10 0845	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y06	2436245.91	1958 Feb 11 0944	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y07	2436253.05	1958 Feb 18 1310	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y08	2436253.10	1958 Feb 18 1431	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y09	2436260.65	1958 Feb 26 0335	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-S35	2436260.69	1958 Feb 26 0435	M-100	?	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-Y11	2436279.62	1958 Mar 17 0300	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y12	2436283.41	1958 Mar 20 2145	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y13	2436283.65	1958 Mar 21 0335	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y14	2436290.65	1958 Mar 28 0335	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y15	2436295.00	1958 Apr 1 1200	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y16	2436314.15	1958 Apr 20 1540	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y17	2436341.53	1958 May 18 0050	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y18	2436341.58	1958 May 18 0156	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y19	2436342.55	1958 May 19 0105	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y20	2436352.54	1958 May 29 0100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y21	2436354.57	1958 May 31 0145	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y22	2436363.53	1958 Jun 9 0050	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y23	2436378.53	1958 Jun 24 0045	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y24	2436378.57	1958 Jun 24 0145	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y25	2436383.56	1958 Jun 29 0130	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y26	2436400.36	1958 Jul 15 2045	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y27	2436400.41	1958 Jul 15 2145	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y28	2436400.58	1958 Jul 16 0200	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y29	2436401.55	1958 Jul 17 0105	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y30	2436411.60	1958 Jul 27 0220	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y31	2436412.13	1958 Jul 27 1510	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y32	2436415.60	1958 Jul 31 0220	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y33	2436422.86	1958 Aug 7 0845	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y34	2436427.63	1958 Aug 12 0310	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y35	2436427.69	1958 Aug 12 0440	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y36	2436429.57	1958 Aug 14 0140	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y37	2436430.69	1958 Aug 15 0440	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y38	2436452.68	1958 Sep 6 0425	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y39	2436460.69	1958 Sep 14 0440	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y40	2436463.60	1958 Sep 17 0230	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y41	2436463.70	1958 Sep 17 0443	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y42	2436465.66	1958 Sep 19 0350	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y43	2436466.73	1958 Sep 20 0535	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y44	2436468.60	1958 Sep 22 0230	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-S204	2436468.66	1958 Sep 22 0347	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S207	2436473.66	1958 Sep 27 0348	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-Y45	2436477.90	1958 Oct 1 0941	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-A131	2436477.95	1958 Oct 1 1045	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	24	-	-
1958-S211	2436479.65	1958 Oct 3 0332	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S214	2436482.94	1958 Oct 6 1030	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S216	2436484.66	1958 Oct 8 0350	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S230	2436492.67	1958 Oct 16 0400	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S231	2436493.67	1958 Oct 17 0405	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1958-S237	2436499.60	1958 Oct 23 0220	M-100 (A-1)	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y46	2436499.64	1958 Oct 23 0320	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y47	2436501.83	1958 Oct 25 0800	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y48	2436505.33	1958 Oct 28 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y49	2436507.83	1958 Oct 31 0800	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y50	2436512.01	1958 Nov 4 1220	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y51	2436518.36	1958 Nov 10 2045	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y52	2436521.83	1958 Nov 14 0800	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y53	2436525.86	1958 Nov 18 0845	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y54	2436536.34	1958 Nov 28 2006	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y55	2436546.29	1958 Dec 8 1900	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y56	2436547.96	1958 Dec 10 1100	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y57	2436549.00	1958 Dec 11 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-Y58	2436549.96	1958 Dec 12 1100	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1958-S301	2436564.91	1958 Dec 27 0950	M-100 (A-1)	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y01	2436571.50	1959 Jan 3 0000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y02	2436579.00	1959 Jan 10 1200	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y03	2436611.50	1959 Feb 12 0000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y04	2436639.96	1959 Mar 12 1109	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y05	2436640.15	1959 Mar 12 1540	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-Y06	2436641.13	1959 Mar 13 1510	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y07	2436660.83	1959 Apr 2 0800	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y08	2436694.00	1959 May 5 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y09	2436751.65	1959 Jul 2 0341	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y10	2436752.66	1959 Jul 3 0345	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y11	2436819.03	1959 Sep 7 1245	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y12	2436821.51	1959 Sep 10 0020	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y13	2436825.38	1959 Sep 13 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y14	2436830.29	1959 Sep 18 1900	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y15	2436836.38	1959 Sep 24 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y16	2436850.38	1959 Oct 8 2100	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y17	2436857.38	1959 Oct 15 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-S212	2436856.50	1959 Oct 15	M-100	?	-	-	-	-	-	OK	-	-	-	86?	-	-
1959-S213	2436856.50	1959 Oct 15	M-100	?	-	-	-	-	-	OK	-	-	-	86?	-	-
1959-Y18	2436862.05	1959 Oct 20 1315	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y19	2436863.66	1959 Oct 22 0356	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y20	2436863.77	1959 Oct 22 0629	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y21	2436863.91	1959 Oct 22 0955	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y22	2436864.38	1959 Oct 22 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y23	2436871.38	1959 Oct 29 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y24	2436885.38	1959 Nov 12 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y25	2436892.38	1959 Nov 19 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-S262	2436905.50	1959 Dec 3	M-100	?	-	-	-	-	-	OK	-	-	-	86?	-	-
1959-S263	2436905.50	1959 Dec 3	M-100	?	-	-	-	-	-	OK	-	-	-	86?	-	-
1959-Y26	2436905.83	1959 Dec 3 0800	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y27	2436905.92	1959 Dec 3 1004	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y28	2436906.02	1959 Dec 3 1228	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y29	2436906.38	1959 Dec 3 2100	M-100	?	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-Y30	2436906.71	1959 Dec 4 0507	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y31	2436906.79	1959 Dec 4 0700	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y32	2436906.93	1959 Dec 4 1025	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1959-Y33	2436927.38	1959 Dec 24 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1959-S03	2436579.00	1959 Jan 10 1200	M-100	?	-	-	-	-	-	OK	-	-	-	100?	-	-
1960-A19	2436957.79	1960 Jan 24 0659:59	M-100	-	-	-	-	-	VOKV	GMS60A	M9002	-	-	44	-	-
1960-A23	2436964.00	1960 Jan 30 1154:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9003	-	-	42	-	-
1960-A28	2436965.94	1960 Feb 1 1030:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9004	-	-	45	-	-
1960-A29	2436966.94	1960 Feb 2 1037:59	M-100	-	-	-	-	-	VOKV	GMS60A	M9005	-	-	46	-	-
1960-A30	2436967.97	1960 Feb 3 1121:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9006	-	-	43	-	-
1960-A32	2436968.96	1960 Feb 4 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9007	-	-	44	-	-
1960-A34	2436969.96	1960 Feb 5 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9008	-	-	38	-	-
1960-A35	2436970.96	1960 Feb 6 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9009	-	-	38	-	-
1960-A36	2436971.96	1960 Feb 7 1103:59	M-100	-	-	-	-	-	VOKV	GMS60A	M9010	-	-	44	-	-
1960-A37	2436972.96	1960 Feb 8 1102:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9011	-	-	43	-	-
1960-A38	2436973.96	1960 Feb 9 1107:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9012	-	-	42	-	-
1960-A40	2436975.00	1960 Feb 10 1200:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9013	-	-	42	-	-
1960-A42	2436975.96	1960 Feb 11 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9014	-	-	42	-	-
1960-A45	2436976.95	1960 Feb 12 1054:59	M-100	-	-	-	-	-	VOKV	GMS60A	M9015	-	-	35	-	-
1960-A47	2436977.87	1960 Feb 13 0855:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9016	-	-	42	-	-
1960-A66	2437005.96	1960 Mar 12 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9017	-	-	41	-	-
1960-A67	2437008.96	1960 Mar 15 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9018	-	-	42	-	-
1960-A71	2437011.96	1960 Mar 18 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9019	-	-	45	-	-
1960-A75	2437017.96	1960 Mar 24 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9020	-	-	43	-	-
1960-A77	2437020.96	1960 Mar 27 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9021	-	-	45	-	-
1960-A79	2437023.96	1960 Mar 30 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9022	-	-	45	-	-
1960-A89	2437024.96	1960 Mar 31 1100:00	M-100	-	-	-	-	-	VOKV	GMS60A	M9023	-	-	44	-	-
1960-A184	2437147.96	1960 Aug 1 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9024	-	-	42	-	-
1960-A187	2437148.96	1960 Aug 2 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9025	-	-	44	-	-
1960-A189	2437149.96	1960 Aug 3 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9026	-	-	40	-	-
1960-A191	2437151.96	1960 Aug 5 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9027	-	-	43	-	-
1960-A192	2437152.96	1960 Aug 6 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9028	-	-	44	-	-
1960-A193	2437155.96	1960 Aug 9 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9029	-	-	43	-	-
1960-A198	2437158.96	1960 Aug 12 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9030	-	-	39	-	-
1960-A200	2437159.96	1960 Aug 13 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9031	-	-	33	-	-
1960-A201	2437160.96	1960 Aug 14 1100:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9032	-	-	47	-	-
1960-A202	2437162.46	1960 Aug 15 2300:00	M-100	-	-	-	-	-	VOKV	GMS60B	M9033	-	-	44	-	-
1960-W40	2437247.09	1960 Nov 8 1404:59	M-100	-	-	-	-	-	SHOK	GMS60C	M9034	-	-	50	-	-
1960-A260	2437251.96	1960 Nov 13 1104:59	M-100	-	-	-	-	-	SHOK	GMS60C	M9035	-	-	44	-	-
1960-A263	2437253.96	1960 Nov 15 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9035	-	-	40	-	-
1960-A267	2437255.96	1960 Nov 17 1104:59	M-100	-	-	-	-	-	SHOK	GMS60C	M9035	-	-	35	-	-
1960-A269	2437257.96	1960 Nov 19 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9035	-	-	45	-	-
1960-A270	2437259.96	1960 Nov 21 1107:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9035	-	-	44	-	-
1960-A274	2437264.96	1960 Nov 26 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9036	-	-	44	-	-
1960-A275	2437266.99	1960 Nov 28 1142:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9036	-	-	42	-	-
1960-A282	2437268.99	1960 Nov 30 1148:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9036	-	-	46	-	-
1960-A285	2437269.96	1960 Dec 1 1104:59	M-100	-	-	-	-	-	SHOK	GMS60C	M9037	-	-	41	-	-
1960-A286	2437270.96	1960 Dec 2 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9038	-	-	39	-	-
1960-A288	2437272.96	1960 Dec 4 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9039	-	-	41	-	-
1960-W43	2437273.96	1960 Dec 5 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9040	-	-	55	-	-
1960-A290	2437274.96	1960 Dec 6 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9041	-	-	39	-	-
1960-W44	2437276.96	1960 Dec 8 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9042	-	-	50	-	-
1960-W45	2437277.95	1960 Dec 9 1054:59	M-100	-	-	-	-	-	SHOK	GMS60C	M9043	-	-	52	-	-
1960-A298	2437279.94	1960 Dec 11 1030:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9044	-	-	46	-	-
1960-A299	2437280.96	1960 Dec 12 1100:00	M-100	-	-	-	-	-	SHOK	GMS60C	M9045	-	-	48	-	-
1962-A23	2437721.38	1962 Feb 25 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	43	-	-
1962-A51	2437770.71	1962 Apr 16 0500:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1962-W06	2437771.04	1962 Apr 16 1259:59	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A52	2437772.04	1962 Apr 17 1259:59	M-100	-	-	-	-	-	-	OK	-	-	-	42	-	-
1962-A79	2437804.38	1962 May 19 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	47	-	-
1962-A81	2437807.38	1962 May 22 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	47	-	-
1962-A82	2437808.38	1962 May 23 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	37	-	-
1962-A86	2437812.38	1962 May 27 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	41	-	-
1962-A127	2437878.38	1962 Aug 1 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1962-A129	2437882.38	1962 Aug 5 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	46	-	-
1962-A130	2437884.38	1962 Aug 7 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1962-A134	2437886.38	1962 Aug 9 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	41	-	-
1962-A137	2437890.38	1962 Aug 13 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	47	-	-
1962-A138	2437892.38	1962 Aug 15 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	45	-	-
1962-A141	2437896.38	1962 Aug 19 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	46	-	-
1962-A143	2437899.38	1962 Aug 22 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	31	-	-
1962-A144	2437900.38	1962 Aug 23 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	39	-	-
1962-A205	2437998.38	1962 Nov 29 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	38	-	-
1962-A210	2438001.38	1962 Dec 2 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	43	-	-
1962-A215	2438007.38	1962 Dec 8 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	45	-	-
1962-A218	2438009.38	1962 Dec 10 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	45	-	-
1962-A221	2438011.38	1962 Dec 12 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	41	-	-
1962-A227	2438013.38	1962 Dec 14 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	40	-	-
1962-A234	2438019.38	1962 Dec 20 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	48	-	-
1962-A237	2438023.38	1962 Dec 24 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	48	-	-
1963-S23	2438056.54	1963 Jan 27 0100	M-100	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1963-A19	2438061.38	1963 Jan 31 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	49	-	-
1963-A20	2438064.38	1963 Feb 3 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1963-W07	2438073.38	1963 Feb 12 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	51	-	-
1963-A38	2438101.38	1963 Mar 12 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1963-A56	2438132.38	1963 Apr 12 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	35	-	-
1964-Y03	2438400.42	1964 Jan 5 2200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y04	2438408.38	1964 Jan 13 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y05	2438410.38	1964 Jan 15 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y06	2438412.42	1964 Jan 17 2200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y12	2438504.42	1964 Apr 18 2200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y13	2438505.33	1964 Apr 19 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y14	2438506.38	1964 Apr 20 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y15	2438508.44	1964 Apr 22 2230	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y16	2438510.38	1964 Apr 24 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y17	2438512.34	1964 Apr 26 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y18	2438513.23	1964 Apr 27 1732	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y19	2438513.34	1964 Apr 27 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y20	2438514.21	1964 Apr 28 1700	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y21	2438515.23	1964 Apr 29 1733	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y22	2438515.34	1964 Apr 29 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y23	2438520.23	1964 May 4 1729	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y24	2438520.34	1964 May 4 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y25	2438522.30	1964 May 6 1908	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y26	2438523.34	1964 May 7 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y27	2438524.34	1964 May 8 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y28	2438526.34	1964 May 10 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y30	2438528.34	1964 May 12 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y29	2438528.21	1964 May 12 1706	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y31	2438528.44	1964 May 12 2230	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y32	2438529.34	1964 May 13 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y33	2438530.23	1964 May 14 1736	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y34	2438531.34	1964 May 15 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y35	2438533.34	1964 May 17 2008	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y36	2438534.33	1964 May 18 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y37	2438535.21	1964 May 19 1702	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y38	2438535.33	1964 May 19 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y39	2438536.21	1964 May 20 1700	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y40	2438536.38	1964 May 20 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y41	2438537.21	1964 May 21 1700	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y42	2438537.25	1964 May 21 1805	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y43	2438537.33	1964 May 21 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y44	2438538.42	1964 May 22 2200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y45	2438554.33	1964 Jun 7 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y46	2438555.33	1964 Jun 8 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y47	2438557.33	1964 Jun 10 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y48	2438559.33	1964 Jun 12 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y49	2438561.33	1964 Jun 14 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y50	2438563.33	1964 Jun 16 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y51	2438564.33	1964 Jun 17 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y52	2438565.33	1964 Jun 18 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y53	2438585.33	1964 Jul 8 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y54	2438586.33	1964 Jul 9 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y55	2438587.38	1964 Jul 10 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y56	2438589.33	1964 Jul 12 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y57	2438590.33	1964 Jul 13 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y58	2438591.33	1964 Jul 14 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y59	2438592.33	1964 Jul 15 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y60	2438593.33	1964 Jul 16 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y61	2438594.33	1964 Jul 17 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y62	2438597.33	1964 Jul 20 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y63	2438599.33	1964 Jul 22 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y64	2438601.33	1964 Jul 24 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y65	2438618.33	1964 Aug 10 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-Y66	2438620.33	1964 Aug 12 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y67	2438622.33	1964 Aug 14 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y68	2438624.33	1964 Aug 16 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y69	2438626.17	1964 Aug 18 1600	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y70	2438626.33	1964 Aug 18 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y71	2438627.08	1964 Aug 19 1400	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y72	2438627.38	1964 Aug 19 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y73	2438628.22	1964 Aug 20 1711	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y74	2438628.38	1964 Aug 20 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y75	2438630.33	1964 Aug 22 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y76	2438632.23	1964 Aug 24 1736	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y77	2438632.38	1964 Aug 24 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y78	2438634.26	1964 Aug 26 1808	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y79	2438634.33	1964 Aug 26 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y80	2438639.23	1964 Aug 31 1731	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y81	2438640.22	1964 Sep 1 1715	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y82	2438641.25	1964 Sep 2 1753	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y83	2438648.21	1964 Sep 9 1705	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1964-Y84	2438648.33	1964 Sep 9 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y85	2438649.38	1964 Sep 10 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y86	2438651.33	1964 Sep 12 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y87	2438653.33	1964 Sep 14 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y88	2438663.33	1964 Sep 24 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y89	2438681.33	1964 Oct 12 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y92	2438683.33	1964 Oct 14 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y93	2438685.33	1964 Oct 16 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y94	2438686.33	1964 Oct 17 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y95	2438688.33	1964 Oct 19 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y96	2438688.38	1964 Oct 19 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y97	2438689.33	1964 Oct 20 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y98	2438690.35	1964 Oct 21 2030	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y99	2438690.40	1964 Oct 21 2140	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y100	2438691.33	1964 Oct 22 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y101	2438692.33	1964 Oct 23 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y102	2438692.38	1964 Oct 23 2100	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y103	2438695.33	1964 Oct 26 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y104	2438696.33	1964 Oct 27 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y105	2438697.42	1964 Oct 28 2200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y106	2438698.33	1964 Oct 29 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y107	2438699.33	1964 Oct 30 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y108	2438715.33	1964 Nov 15 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1964-Y109	2438718.33	1964 Nov 18 2000	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y02	2438772.01	1965 Jan 11 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y03	2438774.04	1965 Jan 13 1300	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y04	2438776.00	1965 Jan 15 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y05	2438779.00	1965 Jan 18 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y06	2438781.00	1965 Jan 20 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y07	2438781.20	1965 Jan 20 1646	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y08	2438783.02	1965 Jan 22 1230	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y09	2438783.24	1965 Jan 22 1742	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y10	2438783.28	1965 Jan 22 1842	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y11	2438802.00	1965 Feb 10 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y12	2438808.00	1965 Feb 16 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y13	2438810.00	1965 Feb 18 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y14	2438811.00	1965 Feb 19 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y17	2438828.00	1965 Mar 8 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y18	2438828.14	1965 Mar 8 1517	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y19	2438829.82	1965 Mar 10 0745	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y20	2438830.00	1965 Mar 10 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y21	2438830.14	1965 Mar 10 1515	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y22	2438830.22	1965 Mar 10 1715	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y23	2438832.00	1965 Mar 12 1200	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y24	2438834.82	1965 Mar 15 0745	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y25	2438835.00	1965 Mar 15 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y26	2438837.00	1965 Mar 17 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y27	2438837.08	1965 Mar 17 1400	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y28	2438838.00	1965 Mar 18 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y29	2438838.02	1965 Mar 18 1230	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y30	2438839.00	1965 Mar 19 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y31	2438839.11	1965 Mar 19 1441	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y32	2438865.01	1965 Apr 14 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y33	2438867.91	1965 Apr 17 0944	M-100	-	-	-	-	-	SHOK	GMS65A	LP1	-	-	85?	-	-
1965-Y34	2438869.09	1965 Apr 18 1416	M-100	-	-	-	-	-	SHOK	GMS65A	LP2	-	-	85?	-	-
1965-Y35	2438871.01	1965 Apr 20 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y36	2438873.01	1965 Apr 22 1210	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y37	2438879.04	1965 Apr 28 1303	M-100	-	-	-	-	-	SHOK	GMS65A	LP3	-	-	85?	-	-
1965-Y38	2438880.94	1965 Apr 30 1030	M-100	-	-	-	-	-	VOKV	GMS65B	LP2	-	-	85?	-	-
1965-Y39	2438881.00	1965 Apr 30 1200	M-100	-	-	Ion density	-	-	SHOK	GMS65A	LP4	-	-	85?	-	-
1965-Y40	2438881.10	1965 Apr 30 1417:30	M-100	-	-	-	-	-	VOKV	GMS65B	LP1	-	-	85?	-	-
1965-Y41	2438881.98	1965 May 1 1124	M-100	-	-	-	-	-	VOKV	GMS65B	LP3	-	-	85?	-	-
1965-Y42	2438882.00	1965 May 1 1159	M-100	-	-	-	-	-	SHOK	GMS65A	LP5	-	-	85?	-	-
1965-Y43	2438883.01	1965 May 2 1209	M-100	-	-	-	-	-	SHOK	GMS65A	LP6	-	-	85?	-	-
1965-Y44	2438884.01	1965 May 3 1211	M-100	-	-	-	-	-	SHOK	GMS65A	LP7	-	-	85?	-	-
1965-Y45	2438884.90	1965 May 4 0941	M-100	-	-	-	-	-	VOKV	GMS65B	LP5	-	-	85?	-	-
1965-Y46	2438885.01	1965 May 4 1211	M-100	-	-	-	-	-	VOKV	GMS65B	LP4	-	-	85?	-	-
1965-W67	2438885.13	1965 May 4 1507:00	M-100	-	-	Error for May 5?	-	-	SHOK	GMS65A	LP8	-	-	85?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-Y48	2438886.13	1965 May 5 1507	M-100	-	-	-	-	-	SHOK	GMS65A	LP8	-	-	85?	-	-
1965-Y47	2438886.05	1965 May 5 1305	M-100	-	-	-	-	-	SHOK	GMS65A	LP9	-	-	85?	-	-
1965-Y49	2438886.87	1965 May 6 0858	M-100	-	-	-	-	-	VOKV	GMS65B	LP6	-	-	85?	-	-
1965-Y50	2438887.00	1965 May 6 1158	M-100	-	-	-	-	-	SHOK	GMS65A	LP10	-	-	85?	-	-
1965-Y51	2438887.91	1965 May 7 0957	M-100	-	-	-	-	-	VOKV	GMS65B	LP7	-	-	85?	-	-
1965-Y52	2438888.02	1965 May 7 1222	M-100	-	-	-	-	-	SHOK	GMS65A	LP11	-	-	85?	-	-
1965-Y53	2438889.00	1965 May 8 1200	M-100	-	-	-	-	-	SHOK	GMS65A	LP12	-	-	85?	-	-
1965-Y54	2438889.08	1965 May 8 1351:00	M-100	-	-	Error for May 9?	-	-	VOKV	GMS65B	LP8	-	-	85?	-	-
1965-Y55	2438889.87	1965 May 9 0859	M-100	-	-	-	-	-	VOKV	GMS65B	LP9	-	-	85?	-	-
1965-Y56	2438890.00	1965 May 9 1200	M-100	-	-	-	-	-	SHOK	GMS65A	LP13	-	-	85?	-	-
1965-Y57	2438890.08	1965 May 9 1351	M-100	-	-	-	-	-	VOKV	GMS65B	LP8	-	-	85?	-	-
1965-Y58	2438890.90	1965 May 10 0943	M-100	-	-	-	-	-	VOKV	GMS65B	LP10	-	-	85?	-	-
1965-Y59	2438891.03	1965 May 10 1242	M-100	-	-	-	-	-	SHOK	GMS65A	LP14	-	-	85?	-	-
1965-Y60	2438891.92	1965 May 11 0959	M-100	-	-	-	-	-	VOKV	GMS65B	LP11	-	-	85?	-	-
1965-Y61	2438891.96	1965 May 11 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP15	-	-	85?	-	-
1965-Y62	2438892.88	1965 May 12 0905	M-100	-	-	-	-	-	VOKV	GMS65B	LP12	-	-	85?	-	-
1965-Y63	2438892.98	1965 May 12 1132	M-100	-	-	-	-	-	SHOK	GMS65A	LP16	-	-	85?	-	-
1965-Y64	2438893.01	1965 May 12 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y65	2438893.92	1965 May 13 1000	M-100	-	-	0230LT?	-	-	SHOK	GMS65A	LP17	-	-	85?	-	-
1965-Y66	2438894.87	1965 May 14 0859	M-100	-	-	-	-	-	VOKV	GMS65B	LP13	-	-	85?	-	-
1965-Y67	2438895.88	1965 May 15 0913	M-100	-	-	-	-	-	VOKV	GMS65B	LP14	-	-	85?	-	-
1965-Y68	2438895.95	1965 May 15 1041	M-100	-	-	-	-	-	SHOK	GMS65A	LP18	-	-	85?	-	-
1965-Y69	2438896.92	1965 May 16 1000	M-100	-	-	-	-	-	SHOK	GMS65A	LP19	-	-	85?	-	-
1965-Y70	2438897.92	1965 May 17 1000	M-100	-	-	-	-	-	SHOK	GMS65A	LP20	-	-	85?	-	-
1965-Y71	2438899.01	1965 May 18 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y72	2438900.01	1965 May 19 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y73	2438901.00	1965 May 20 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y75	2438906.96	1965 May 26 1058	M-100	-	-	-	-	-	VOKV	GMS65B	LP15	-	-	85?	-	-
1965-Y76	2438907.95	1965 May 27 1053	M-100	-	-	-	-	-	SHOK	GMS65A	LP21	-	-	85?	-	-
1965-Y77	2438908.95	1965 May 28 1042	M-100	-	-	-	-	-	SHOK	GMS65A	LP22	-	-	85?	-	-
1965-Y78	2438909.42	1965 May 28 2203	M-100	-	-	-	-	-	VOKV	GMS65B	LP16	-	-	85?	-	-
1965-Y79	2438909.96	1965 May 29 1058	M-100	-	-	-	-	-	SHOK	GMS65A	LP23	-	-	85?	-	-
1965-Y80	2438910.42	1965 May 29 2206	M-100	-	-	-	-	-	VOKV	GMS65B	LP17	-	-	85?	-	-
1965-Y87	2438911.42	1965 May 30 2201	M-100	-	-	-	-	-	VOKV	GMS65B	LP18	-	-	85?	-	-
1965-Y88	2438911.46	1965 May 30 2309	M-100	-	-	-	-	-	VOKV	GMS65B	LP19	-	-	85?	-	-
1965-Y89	2438914.11	1965 Jun 2 1445	M-100	-	-	-	-	-	VOKV	GMS65B	LP20	-	-	85?	-	-
1965-Y90	2438914.96	1965 Jun 3 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP24	-	-	85?	-	-
1965-Y91	2438915.02	1965 Jun 3 1232	M-100	-	-	-	-	-	VOKV	GMS65B	LP21	-	-	85?	-	-
1965-Y92	2438916.00	1965 Jun 4 1206	M-100	-	-	-	-	-	VOKV	GMS65B	LP22	-	-	85?	-	-
1965-Y93	2438916.96	1965 Jun 5 1102	M-100	-	-	-	-	-	SHOK	GMS65A	LP25	-	-	85?	-	-
1965-Y94	2438917.00	1965 Jun 5 1155	M-100	-	-	-	-	-	VOKV	GMS65B	LP23	-	-	85?	-	-
1965-Y95	2438917.96	1965 Jun 6 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP26	-	-	85?	-	-
1965-Y96	2438918.00	1965 Jun 6 1200	M-100	-	-	-	-	-	VOKV	GMS65B	LP24	-	-	85?	-	-
1965-Y97	2438918.98	1965 Jun 7 1130	M-100	-	-	-	-	-	SHOK	GMS65A	LP27	-	-	85?	-	-
1965-Y98	2438919.00	1965 Jun 7 1158	M-100	-	-	-	-	-	VOKV	GMS65B	LP25	-	-	85?	-	-
1965-Y99	2438920.02	1965 Jun 8 1235	M-100	-	-	-	-	-	VOKV	GMS65B	LP26	-	-	85?	-	-
1965-Y100	2438920.96	1965 Jun 9 1102	M-100	-	-	-	-	-	SHOK	GMS65A	LP28	-	-	85?	-	-
1965-Y101	2438921.01	1965 Jun 9 1216	M-100	-	-	-	-	-	VOKV	GMS65B	LP27	-	-	85?	-	-
1965-Y102	2438921.96	1965 Jun 10 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP29	-	-	85?	-	-
1965-Y103	2438922.00	1965 Jun 10 1201	M-100	-	-	-	-	-	VOKV	GMS65B	LP28	-	-	85?	-	-
1965-Y104	2438922.96	1965 Jun 11 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP30	-	-	85?	-	-
1965-Y105	2438923.00	1965 Jun 11 1200	M-100	-	-	-	-	-	VOKV	GMS65B	LP29	-	-	85?	-	-
1965-A83	2438924.02	1965 Jun 12 1224:59	M-100	-	-	Prob. SHOK?	-	-	SHOK	GMS65A	M9072	-	-	48	-	-
1965-Y106	2438925.00	1965 Jun 13 1205	M-100	-	-	-	-	-	VOKV	GMS65B	LP31	-	-	85?	-	-
1965-Y107	2438925.01	1965 Jun 13 1221	M-100	-	-	-	-	-	SHOK	GMS65A	LP31	-	-	85?	-	-
1965-Y108	2438925.14	1965 Jun 13 1525	M-100	-	-	-	-	-	VOKV	GMS65B	LP30	-	-	85?	-	-
1965-Y109	2438925.96	1965 Jun 14 1100	M-100	-	-	-	-	-	SHOK	GMS65A	LP32	-	-	85?	-	-
1965-Y110	2438926.00	1965 Jun 14 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y111	2438926.00	1965 Jun 14 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y112	2438926.01	1965 Jun 14 1217	M-100	-	-	-	-	-	VOKV	GMS65B	LP32	-	-	85?	-	-
1965-Y113	2438926.98	1965 Jun 15 1127	M-100	-	-	-	-	-	VOKV	GMS65B	LP33	-	-	85?	-	-
1965-Y114	2438926.99	1965 Jun 15 1151	M-100	-	-	-	-	-	SHOK	GMS65A	LP33	-	-	85?	-	-
1965-Y115	2438927.02	1965 Jun 15 1225	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y116	2438927.13	1965 Jun 15 1509	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y117	2438928.00	1965 Jun 16 1153	M-100	-	-	-	-	-	SHOK	GMS65A	LP34	-	-	85?	-	-
1965-Y118	2438928.00	1965 Jun 16 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y119	2438930.01	1965 Jun 18 1210	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y120	2438930.21	1965 Jun 18 1705	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y121	2438931.04	1965 Jun 19 1251	M-100	-	-	-	-	-	VOKV	GMS65B	LP34	-	-	85?	-	-
1965-Y122	2438933.12	1965 Jun 21 1500	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y123	2438933.39	1965 Jun 21 2115	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y125	2438935.01	1965 Jun 23 1210	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y124	2438935.00	1965 Jun 23 1153	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y126	2438935.01	1965 Jun 23 1210	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y127	2438947.90	1965 Jul 6 0930	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y128	2438950.84	1965 Jul 9 0815	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y129	2438954.84	1965 Jul 13 0815	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y130	2438962.83	1965 Jul 21 0802	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y131	2438963.85	1965 Jul 22 0817	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y132	2438964.05	1965 Jul 22 1315	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y133	2438964.84	1965 Jul 23 0816	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y134	2438968.01	1965 Jul 26 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y135	2438968.85	1965 Jul 27 0817	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y136	2438970.01	1965 Jul 28 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y137	2438984.84	1965 Aug 12 0816	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y138	2438986.01	1965 Aug 13 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-Y139	2438990.00	1965 Aug 17 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y140	2438991.01	1965 Aug 18 1215	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y141	2439011.85	1965 Sep 8 0817	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y142	2439018.85	1965 Sep 15 0817	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y143	2439023.02	1965 Sep 19 1235	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y144	2439024.03	1965 Sep 20 1240	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y145	2439025.93	1965 Sep 22 1013	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y146	2439026.02	1965 Sep 22 1225	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y147	2439026.89	1965 Sep 23 0916	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y148	2439028.00	1965 Sep 24 1205	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y149	2439039.97	1965 Oct 6 1116	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y150	2439053.01	1965 Oct 19 1211	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y151	2439054.00	1965 Oct 20 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y152	2439061.00	1965 Oct 27 1206	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y153	2439061.96	1965 Oct 28 1107	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y154	2439062.86	1965 Oct 29 0836	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1965-Y155	2439081.00	1965 Nov 16 1203	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y156	2439082.00	1965 Nov 17 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y157	2439083.07	1965 Nov 18 1344	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y158	2439089.00	1965 Nov 24 1202	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y161	2439108.02	1965 Dec 13 1235	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y162	2439110.01	1965 Dec 15 1210	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1965-Y163	2439112.00	1965 Dec 17 1200	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1966-W08	2439130.01	1966 Jan 4 1214:59	M-100	-	-	-	-	-	-	OK	-	-	-	60	-	-
1966-W12	2439134.01	1966 Jan 8 1214:59	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-
1966-A15	2439138.01	1966 Jan 12 1221:00	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1966-W18	2439143.02	1966 Jan 17 1222:59	M-100	-	-	-	-	-	-	OK	-	-	-	55	-	-
1966-W23	2439145.02	1966 Jan 19 1230:00	M-100	-	-	-	-	-	-	OK	-	-	-	70	-	-
1966-A19	2439147.02	1966 Jan 21 1222:00	M-100	-	-	-	-	-	-	OK	-	-	-	47	-	-
1966-A20	2439148.00	1966 Jan 22 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	45	-	-
1966-A21	2439149.04	1966 Jan 23 1257:59	M-100	-	-	-	-	-	-	OK	-	-	-	44	-	-
1966-Y01	2439150.02	1966 Jan 24 1233:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W25	2439151.00	1966 Jan 25 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	75	-	-
1966-W28	2439153.00	1966 Jan 27 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-
1966-Y02	2439154.00	1966 Jan 28 1204:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W30	2439155.02	1966 Jan 29 1225:59	M-100	-	-	-	-	-	-	OK	-	-	-	60	-	-
1966-Y03	2439157.00	1966 Jan 31 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W32	2439158.02	1966 Feb 1 1225:59	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-
1966-W37	2439159.02	1966 Feb 2 1223:59	M-100	-	-	-	-	-	-	OK	-	-	-	60	-	-
1966-W47	2439160.03	1966 Feb 3 1236:59	M-100	-	-	-	-	-	-	OK	-	-	-	70	-	-
1966-W56	2439161.00	1966 Feb 4 1201:59	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1966-Y04	2439164.00	1966 Feb 7 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y05	2439165.00	1966 Feb 8 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W79	2439166.00	1966 Feb 9 1201:59	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-
1966-A32	2439166.26	1966 Feb 9 1820:00	M-100	-	-	-	-	-	-	OK	-	-	-	41	-	-
1966-W221	2439193.00	1966 Mar 8 1207:00	M-100	-	-	-	-	-	-	OK	-	-	-	55	-	-
1966-Y06	2439195.00	1966 Mar 10 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A45	2439196.00	1966 Mar 11 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	45	-	-
1966-Y07	2439199.00	1966 Mar 14 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W223	2439201.00	1966 Mar 16 1200:59	M-100	-	-	-	-	-	-	OK	-	-	-	59	-	-
1966-A54	2439236.01	1966 Apr 20 1213:59	M-100	-	-	-	-	-	-	OK	-	-	-	30	-	-
1966-W235	2439236.27	1966 Apr 20 1834:59	M-100	-	-	-	-	-	-	OK	-	-	-	52	-	-
1966-Y09	2439238.00	1966 Apr 22 1204:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y10	2439239.00	1966 Apr 23 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A56	2439241.00	1966 Apr 25 1207:00	M-100	-	-	-	-	-	-	OK	-	-	-	28	-	-
1966-W237	2439243.01	1966 Apr 27 1208:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1966-W256	2439262.00	1966 May 16 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	62	-	-
1966-Y13	2439264.00	1966 May 18 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y23	2439266.00	1966 May 20 1204:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A70	2439270.01	1966 May 24 1208:00	M-100	-	-	-	-	-	-	OK	-	-	-	46	-	-
1966-W273	2439290.00	1966 Jun 13 1207:00	M-100	-	-	-	-	-	-	OK	-	-	-	52	-	-
1966-W274	2439291.00	1966 Jun 14 1206:00	M-100	-	-	-	-	-	-	OK	-	-	-	60	-	-
1966-A77	2439292.00	1966 Jun 15 1201:59	M-100	-	-	-	-	-	-	OK	-	-	-	48	-	-
1966-Y26	2439293.01	1966 Jun 16 1212:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y28	2439318.00	1966 Jul 11 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y29	2439319.00	1966 Jul 12 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y30	2439321.00	1966 Jul 14 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W294	2439321.72	1966 Jul 15 0514:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1966-Y31	2439322.00	1966 Jul 15 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y33	2439355.00	1966 Aug 17 1201:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y35	2439357.00	1966 Aug 19 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y36	2439358.00	1966 Aug 20 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-W310	2439363.79	1966 Aug 26 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1966-Y39	2439369.00	1966 Aug 31 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A104	2439382.00	1966 Sep 13 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	42	-	-
1966-Y41	2439384.00	1966 Sep 15 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A106	2439385.00	1966 Sep 16 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	37	-	-
1966-Y42	2439393.00	1966 Sep 24 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-Y43	2439404.00	1966 Oct 5 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1966-A122	2439415.79	1966 Oct 17 0702:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	42	-	-
1966-W353	2439422.82	1966 Oct 24 0736:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1966-W362	2439429.80	1966 Oct 31 0712:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1966-Y57	2439443.79	1966 Nov 14 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1966-A141	2439450.79	1966 Nov 21 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	47	-	-
1966-Y58	2439459.92	1966 Nov 30 1007:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1966-W393	2439473.77	1966 Dec 14 0630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-W396	2439474.79	1966 Dec 15 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1966-A154	2439478.79	1966 Dec 19 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	48	-	-
1966-A155	2439479.00	1966 Dec 19 1200:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9115	-	-	45	-	-
1966-W397	2439479.13	1966 Dec 19 1501:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9193	-	-	52	-	-
1966-W398	2439480.97	1966 Dec 21 1121:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9199	-	-	78	-	-
1966-A156	2439481.00	1966 Dec 21 1200:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9114	-	-	40	-	-
1966-A157	2439481.09	1966 Dec 21 1410:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	47	-	-
1966-W399	2439481.96	1966 Dec 22 1100:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9113	-	-	50	-	-
1966-W400	2439482.92	1966 Dec 23 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9112	-	-	79	-	-
1966-Y60	2439483.79	1966 Dec 24 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1966-W401	2439484.87	1966 Dec 25 0847:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9194	-	-	50	-	-
1966-W402	2439484.92	1966 Dec 25 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9111	-	-	78	-	-
1966-Y61	2439485.88	1966 Dec 26 0912:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9195	-	-	80	-	-
1966-W403	2439487.37	1966 Dec 27 2046:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9196	-	-	78	-	-
1966-W404	2439487.79	1966 Dec 28 0659:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1966-W405	2439488.85	1966 Dec 29 0830:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9197	-	-	78	-	-
1966-W406	2439488.92	1966 Dec 29 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9110	-	-	60	-	-
1966-A160	2439489.85	1966 Dec 30 0830:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9198	-	-	42	-	-
1966-Y62	2439490.85	1966 Dec 31 0820:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9169	-	-	80	-	-
1966-Y63	2439490.92	1966 Dec 31 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9109	-	-	80	-	-
1967-A44	2439491.81	1967 Jan 1 0732:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9192	-	-	39	-	-
1967-Y01	2439492.92	1967 Jan 2 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9108	-	-	83	-	-
1967-W19	2439493.83	1967 Jan 3 0800:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9191	-	-	64	-	-
1967-W20	2439493.93	1967 Jan 3 1025:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9107	-	-	60	-	-
1967-Y02	2439494.88	1967 Jan 4 0906:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-W21	2439494.88	1967 Jan 4 0912:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9190	-	-	78	-	-
1967-Y03	2439494.92	1967 Jan 4 0959:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9209	-	-	83	-	-
1967-W22	2439495.86	1967 Jan 5 0834:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9189	-	-	78	-	-
1967-Y04	2439496.84	1967 Jan 6 0803:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9188	-	-	180	-	-
1967-Y05	2439496.92	1967 Jan 6 0959:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9208	-	-	85	-	-
1967-A45	2439497.41	1967 Jan 6 2153:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9187	-	-	45	-	-
1967-A46	2439497.87	1967 Jan 7 0853:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9186	-	-	44	-	-
1967-Y06	2439498.92	1967 Jan 8 1002:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9185	-	-	80	-	-
1967-W23	2439500.88	1967 Jan 10 0904:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9184	-	-	75	-	-
1967-Y07	2439500.92	1967 Jan 10 1009:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9210	-	-	83	-	-
1967-A47	2439501.89	1967 Jan 11 0920:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9183	-	-	48	-	-
1967-Y08	2439505.30	1967 Jan 14 1911:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9207	-	-	84	-	-
1967-Y09	2439506.92	1967 Jan 16 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9154	-	-	80	-	-
1967-A49	2439507.91	1967 Jan 17 0944:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9182	-	-	33	-	-
1967-Y10	2439507.92	1967 Jan 17 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9155	-	-	83	-	-
1967-Y11	2439508.89	1967 Jan 18 0922:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9181	-	-	80	-	-
1967-W24	2439508.90	1967 Jan 18 0935:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1967-Y12	2439508.92	1967 Jan 18 0959:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9156	-	-	83	-	-
1967-Y13	2439509.98	1967 Jan 19 1134:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9180	-	-	80	-	-
1967-Y14	2439510.96	1967 Jan 20 1104:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9157	-	-	83	-	-
1967-W27	2439511.96	1967 Jan 21 1100:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9158	-	-	79	-	-
1967-W28	2439511.96	1967 Jan 21 1104:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9200	-	-	50	-	-
1967-A51	2439513.00	1967 Jan 22 1204:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9159	-	-	42	-	-
1967-W32	2439513.94	1967 Jan 23 1030:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9179	-	-	58	-	-
1967-A52	2439514.00	1967 Jan 23 1200:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9160	-	-	43	-	-
1967-Y15	2439514.95	1967 Jan 24 1048:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9178	-	-	80	-	-
1967-Y16	2439515.67	1967 Jan 25 0400:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1967-Y17	2439516.96	1967 Jan 26 1100:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9173	-	-	80	-	-
1967-W35	2439517.96	1967 Jan 27 1108:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9174	-	-	70	-	-
1967-W36	2439518.97	1967 Jan 28 1113:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9175	-	-	78	-	-
1967-W37	2439520.97	1967 Jan 30 1113:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9177	-	-	78	-	-
1967-Y19	2439522.98	1967 Feb 1 1133:00	M-100	-	-	-	-	-	VOKV?	GMS66B	M9176	-	-	80	-	-
1967-Y20	2439525.96	1967 Feb 4 1055:59	M-100	-	-	-	-	-	VOKV?	GMS66B	M9170	-	-	80	-	-
1967-Y21	2439527.94	1967 Feb 6 1026:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9106	-	-	80	-	-
1967-A56	2439528.92	1967 Feb 7 0957:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9105	-	-	46	-	-
1967-W46	2439529.88	1967 Feb 8 0902:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1967-A59	2439531.91	1967 Feb 10 0953:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9104	-	-	48	-	-
1967-Y22	2439536.63	1967 Feb 15 0310:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1967-W47	2439536.88	1967 Feb 15 0900:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9119	-	-	78	-	-
1967-Y23	2439538.01	1967 Feb 16 1212:59	M-100	-	-	-	-	-	SHOK?	GMS66A	M9118	-	-	80	-	-
1967-A60	2439539.91	1967 Feb 18 0953:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9117	-	-	31	-	-
1967-Y24	2439541.91	1967 Feb 20 0953:00	M-100	-	-	-	-	-	SHOK?	GMS66A	M9116	-	-	80	-	-
1967-Y25	2439571.93	1967 Mar 22 1019:59	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1967-W60	2439571.96	1967 Mar 22 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	52	-	-
1967-Y26	2439578.92	1967 Mar 29 1008:59	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1967-W61	2439578.96	1967 Mar 29 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	68	-	-
1967-W95	2439590.92	1967 Apr 10 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1967-W96	2439593.04	1967 Apr 12 1256:59	M-100	-	-	-	-	-	-	OK	-	-	-	73	-	-
1967-W98	2439595.96	1967 Apr 15 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1967-W99	2439596.00	1967 Apr 15 1204:59	M-100	-	-	-	-	-	-	OK	-	-	-	74	-	-
1967-W100	2439598.00	1967 Apr 17 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1967-W101	2439599.92	1967 Apr 19 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	65	-	-
1967-W102	2439603.00	1967 Apr 22 1202:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	65	-	-
1967-W103	2439604.92	1967 Apr 24 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	68	-	-
1967-W104	2439607.71	1967 Apr 27 0503:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1967-W113	2439616.92	1967 May 6 1000:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1967-Y37	2439617.92	1967 May 7 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-S252	2439618.14	1967 May 7 1526	M-100	-	-	-	-	-	VOKV	GMS67A	LP1	-	-	90?	-	-
1967-A79	2439620.92	1967 May 10 1004:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	38	-	-
1967-Y38	2439621.00	1967 May 10 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W114	2439623.67	1967 May 13 0404:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-Y39	2439623.88	1967 May 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W115	2439625.88	1967 May 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1967-S598	2439625.22	1967 May 14 1720	M-100	-	-	-	-	-	VOKV	GMS67A	LP2	-	-	90?	-	-
1967-W116	2439625.92	1967 May 15 1003:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1967-W117	2439627.92	1967 May 17 1006:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	62	-	-
1967-S300	2439655.19	1967 Jun 13 1636	M-100	-	-	-	-	-	VOKV	GMS67A	LP3	-	-	90?	-	-
1967-S303	2439657.19	1967 Jun 15 1638:00	M-100	?	-	-	-	-	VOKV	GMS67A	LP4	-	-	90?	-	-
1967-S306	2439659.19	1967 Jun 17 1628	M-100	-	-	-	-	-	VOKV	GMS67A	LP5	-	-	90?	-	-
1967-S307	2439659.39	1967 Jun 17 2115	M-100	-	-	-	-	-	VOKV	GMS67A	LP6	-	-	90?	-	-
1967-W131	2439661.92	1967 Jun 20 1006:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	64	-	-
1967-Y40	2439662.92	1967 Jun 21 1007:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-W133	2439665.88	1967 Jun 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1967-W134	2439667.90	1967 Jun 26 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	63	-	-
1967-W135	2439668.96	1967 Jun 27 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1967-W136	2439669.88	1967 Jun 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	53	-	-
1967-W137	2439669.92	1967 Jun 28 1003:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1967-W148	2439681.88	1967 Jul 10 0902:59	M-100	-	-	-	-	-	-	OK	-	-	-	73	-	-
1967-W149	2439683.89	1967 Jul 12 0924:59	M-100	-	-	-	-	-	-	OK	-	-	-	53	-	-
1967-W150	2439683.92	1967 Jul 12 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1967-W152	2439686.88	1967 Jul 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1967-W153	2439688.88	1967 Jul 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1967-W154	2439688.92	1967 Jul 17 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1967-Y42	2439690.88	1967 Jul 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W155	2439690.92	1967 Jul 19 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1967-S385	2439714.35	1967 Aug 11 2025	M-100	-	-	-	-	-	VOKV	GMS67A	LP7	-	-	90?	-	-
1967-W168	2439720.92	1967 Aug 18 1001:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	71	-	-
1967-Y43	2439721.88	1967 Aug 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W169	2439723.88	1967 Aug 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	72	-	-
1967-Y44	2439723.92	1967 Aug 21 1001:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1967-W172	2439725.92	1967 Aug 23 1001:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	53	-	-
1967-Y45	2439727.94	1967 Aug 25 1035:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1967-W173	2439732.88	1967 Aug 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1967-W177	2439734.92	1967 Sep 1 1006:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1967-Y46	2439737.92	1967 Sep 4 1000:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1967-Y47	2439739.89	1967 Sep 6 0917:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1967-W180	2439747.92	1967 Sep 14 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	67	-	-
1967-W182	2439751.88	1967 Sep 18 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	75	-	-
1967-W183	2439751.92	1967 Sep 18 1006:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1967-Y48	2439753.88	1967 Sep 20 0909:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W188	2439753.92	1967 Sep 20 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	52	-	-
1967-Y49	2439779.92	1967 Oct 16 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1967-Y50	2439781.92	1967 Oct 18 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-W199	2439783.92	1967 Oct 20 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1967-W201	2439786.92	1967 Oct 23 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1967-W205	2439790.92	1967 Oct 27 1000:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1967-W216	2439805.88	1967 Nov 11 0901:59	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1967-Y51	2439809.92	1967 Nov 15 1003:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1967-Y52	2439811.92	1967 Nov 17 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-W221	2439816.92	1967 Nov 22 1001:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1967-W222	2439816.98	1967 Nov 22 1130:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1967-W223	2439818.87	1967 Nov 24 0849:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1967-W224	2439821.94	1967 Nov 27 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1967-W225	2439822.71	1967 Nov 28 0503:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1967-W227	2439823.92	1967 Nov 29 1007:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1967-Y53	2439824.71	1967 Nov 30 0501:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-Y54	2439832.92	1967 Dec 8 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1967-W235	2439835.92	1967 Dec 11 0959:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1967-Y55	2439840.88	1967 Dec 16 0909:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1967-W238	2439844.88	1967 Dec 20 0900:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1967-Y56	2439844.88	1967 Dec 20 0900:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-W25	2439858.88	1968 Jan 3 0900:59	M-100	-	-	-	-	-	-	OK	-	-	-	74	-	-
1968-Y01	2439858.92	1968 Jan 3 1003:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-A53	2439864.92	1968 Jan 9 1003:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	46	-	-
1968-W26	2439868.88	1968 Jan 13 0901:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	52	-	-
1968-Y02	2439872.52	1968 Jan 17 0027:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y03	2439872.54	1968 Jan 17 0059:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-W27	2439872.71	1968 Jan 17 0500:00	M-100	-	-	-	-	-	-	OK	-	-	-	56	-	-
1968-Y04	2439872.85	1968 Jan 17 0826:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y05	2439873.02	1968 Jan 17 1227:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1968-W28	2439873.04	1968 Jan 17 1259:59	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1968-Y06	2439873.18	1968 Jan 17 1623:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y07	2439875.91	1968 Jan 20 0953:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-W31	2439879.92	1968 Jan 24 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	51	-	-
1968-W32	2439880.04	1968 Jan 24 1256:59	M-100	-	-	-	-	-	-	OK	-	-	-	74	-	-
1968-Y09	2439886.92	1968 Jan 31 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W45	2439891.90	1968 Feb 5 0940:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1968-W46	2439891.92	1968 Feb 5 1000:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	64	-	-
1968-W47	2439898.92	1968 Feb 12 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1968-A61	2439900.69	1968 Feb 14 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	38	-	-
1968-W49	2439902.67	1968 Feb 16 0402:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1968-Y13	2439905.88	1968 Feb 19 0901:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y14	2439912.88	1968 Feb 26 0901:59	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1968-W50	2439914.67	1968 Feb 28 0401:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	52	-	-
1968-Y15	2439916.37	1968 Feb 29 2049:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W67	2439919.92	1968 Mar 4 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	55	-	-
1968-Y19	2439928.88	1968 Mar 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-Y20	2439930.62	1968 Mar 15 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W84	2439951.88	1968 Apr 5 0901:59	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-W90	2439965.88	1968 Apr 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1968-W98	2439980.88	1968 May 4 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-Y26	2439982.92	1968 May 6 1006:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1968-W101	2439984.88	1968 May 8 0912:59	M-100	-	-	-	-	-	-	OK	-	-	-	68	-	-
1968-W102	2439991.88	1968 May 15 0904:59	M-100	-	-	-	-	-	-	OK	-	-	-	70	-	-
1968-W104	2439992.92	1968 May 16 1007:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	50	-	-
1968-Y31	2439999.90	1968 May 23 0934:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1968-Y32	2440005.63	1968 May 29 0301:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y33	2440005.88	1968 May 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y34	2440012.63	1968 Jun 5 0301:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1968-W123	2440019.63	1968 Jun 12 0301:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1968-W124	2440019.89	1968 Jun 12 0927:59	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-Y36	2440026.63	1968 Jun 19 0300:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W126	2440026.96	1968 Jun 19 1102:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-Y38	2440033.63	1968 Jun 26 0303:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1968-W127	2440033.88	1968 Jun 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-Y39	2440038.88	1968 Jul 1 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-W146	2440040.35	1968 Jul 2 2027:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1968-Y41	2440040.52	1968 Jul 3 0027:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W147	2440040.54	1968 Jul 3 0059:59	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1968-Y42	2440040.69	1968 Jul 3 0432:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W148	2440040.71	1968 Jul 3 0503:59	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1968-Y43	2440040.85	1968 Jul 3 0827:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W149	2440040.88	1968 Jul 3 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1968-Y44	2440041.02	1968 Jul 3 1227:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1968-Y45	2440041.11	1968 Jul 3 1437:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y46	2440041.21	1968 Jul 3 1700:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1968-W150	2440043.92	1968 Jul 6 1006:00	M-100	-	-	-	-	-	-	OK	-	-	-	50	-	-
1968-Y48	2440047.21	1968 Jul 09 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9161	-	-	92	-	-
1968-Y49	2440047.62	1968 Jul 10 0300	M-100	-	-	Particles	-	-	-	GTsP-4	-	-	-	100	-	-
1968-Y50	2440047.65	1968 Jul 10 0332:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1968-W151	2440047.88	1968 Jul 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1968-W153	2440054.59	1968 Jul 17 0203:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1968-Y51	2440058.88	1968 Jul 21 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y52	2440062.69	1968 Jul 25 0432:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y53	2440065.88	1968 Jul 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-W162	2440068.88	1968 Jul 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1968-Y57	2440077.92	1968 Aug 9 0959:59	M-100	-	-	-	-	-	SHIR?	GMS68B	M9162	-	-	80	-	-
1968-W164	2440082.29	1968 Aug 13 1859:59	M-100	-	-	-	-	-	SHIR?	IOLZ	IOCOR	-	-	78	-	-
1968-Y59	2440082.88	1968 Aug 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y60	2440083.17	1968 Aug 14 1600:00	M-100	-	-	-	-	-	SHIR?	IOLZ	IOCOR	-	-	93	-	-
1968-Y61	2440083.25	1968 Aug 14 1800:00	M-100	-	-	-	-	-	SHIR?	IOLZ	IOCOR	-	-	80	-	-
1968-Y62	2440084.21	1968 Aug 15 1700:00	M-100	-	-	-	-	-	SHIR?	IOLZ	IOCOR	-	-	80	-	-
1968-W165	2440085.29	1968 Aug 16 1859:59	M-100	-	-	-	-	-	SHIR?	IOLZ	IOCOR	-	-	78	-	-
1968-Y63	2440088.29	1968 Aug 19 1859:59	M-100	-	-	-	-	-	SHIR?	GMS68B	M9164	-	-	80	-	-
1968-W166	2440089.46	1968 Aug 20 2300:00	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	78	-	-
1968-W167	2440089.88	1968 Aug 21 0907:00	M-100	-	-	-	-	-	-	OK	-	-	-	74	-	-
1968-W168	2440090.21	1968 Aug 21 1700:00	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	76	-	-
1968-Y64	2440091.17	1968 Aug 22 1600:00	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	90	-	-
1968-Y65	2440091.29	1968 Aug 22 1859:59	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	80	-	-
1968-Y66	2440092.21	1968 Aug 23 1700:00	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	92	-	-
1968-W169	2440092.29	1968 Aug 23 1859:59	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	76	-	-
1968-Y67	2440093.17	1968 Aug 24 1559:59	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	80	-	-
1968-Y68	2440093.21	1968 Aug 24 1700:00	M-100	-	-	-	-	-	SHIR?	IOLZ	RODR	-	-	80	-	-
1968-Y70	2440096.88	1968 Aug 28 0900:59	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y71	2440101.17	1968 Sep 01 1600:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9136	-	-	91	-	-
1968-Y72	2440101.29	1968 Sep 01 1900:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9136	-	-	90	-	-
1968-Y73	2440102.21	1968 Sep 2 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9135	-	-	82	-	-
1968-W179	2440102.25	1968 Sep 2 1800:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9135	-	-	78	-	-
1968-W180	2440103.25	1968 Sep 3 1800:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9135	-	-	78	-	-
1968-W181	2440104.29	1968 Sep 4 1859:59	M-100	-	-	-	-	-	SHIR?	GMS68B	M9135	-	-	78	-	-
1968-Y74	2440105.21	1968 Sep 5 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9172	-	-	80	-	-
1968-Y75	2440107.21	1968 Sep 7 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9132	-	-	80	-	-
1968-W182	2440110.38	1968 Sep 10 2100:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9171	-	-	54	-	-
1968-W183	2440110.46	1968 Sep 10 2300:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9171	-	-	74	-	-
1968-Y76	2440110.88	1968 Sep 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y77	2440112.33	1968 Sep 12 2000:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9168	-	-	90	-	-
1968-W186	2440115.17	1968 Sep 15 1559:59	M-100	-	-	-	-	-	SHIR?	GMS68B	M9167	-	-	76	-	-
1968-Y78	2440117.88	1968 Sep 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1968-Y79	2440117.92	1968 Sep 18 1002:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y80	2440118.21	1968 Sep 18 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9166	-	-	93	-	-
1968-Y81	2440121.08	1968 Sep 21 1400:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9165	-	-	80	-	-
1968-Y82	2440121.17	1968 Sep 21 1600:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9165	-	-	94	-	-
1968-W188	2440121.21	1968 Sep 21 1700:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9165	-	-	76	-	-
1968-Y83	2440121.29	1968 Sep 21 1900:00	M-100	-	-	-	-	-	SHIR?	GMS68B	M9165	-	-	96	-	-
1968-Y84	2440121.89	1968 Sep 22 0914:59	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1968-Y85	2440124.88	1968 Sep 25 0900:00	M-100	-	-	Particle flux 1	-	-	-	OK	-	-	-	80	-	-
1968-Y86	2440127.00	1968 Sep 27 1202:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1968-W226	2440131.89	1968 Oct 2 0915:59	M-100	-	-	Particle flux 2	-	-	-	OK	-	-	-	60	-	-
1968-S530	2440138.88	1968 Oct 9 0906	M-100	-	-	Particle flux 3	-	-	-	OK	-	-	-	60?	-	-
1968-Y87	2440139.09	1968 Oct 9 1403:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W229	2440145.92	1968 Oct 16 1001:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1968-Y88	2440152.88	1968 Oct 23 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1968-Y90	2440159.88	1968 Oct 30 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W230	2440160.00	1968 Oct 30 1202:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1968-W243	2440164.84	1968 Nov 4 0803:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	65	-	-
1968-Y94	2440173.89	1968 Nov 13 0914:59	M-100	-	-	Particle flux 4	-	-	-	OK	-	-	-	82	-	-
1968-W244	2440175.75	1968 Nov 15 0602:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1968-Y96	2440180.89	1968 Nov 20 0924:59	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1968-W247	2440183.04	1968 Nov 22 1302:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1968-W248	2440187.63	1968 Nov 27 0302:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1968-Y98	2440187.88	1968 Nov 27 0901:59	M-100	-	-	Particle flux 5	-	-	-	OK	-	-	-	80	-	-
1968-W249	2440189.85	1968 Nov 29 0820:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1968-W264	2440194.88	1968 Dec 4 0904:59	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1968-Y101	2440201.67	1968 Dec 11 0402:59	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-Y102	2440201.88	1968 Dec 11 0900:00	M-100	-	-	Particle flux 6	-	-	-	OK	-	-	-	88	-	-
1968-W290	2440208.88	1968 Dec 18 0912	M-100	-	-	Particle flux 7	-	-	-	OK	-	-	-	88?	-	-
1968-Y105	2440210.96	1968 Dec 20 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1968-W274	2440213.85	1968 Dec 23 0830:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1968-A116	2440215.71	1968 Dec 25 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	40	-	-
1968-W291	2440215.88	1968 Dec 25 0911	M-100	-	-	Particle flux 8	-	-	-	OK	-	-	-	88?	-	-
1968-Y106	2440217.17	1968 Dec 26 1559:59	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	80	-	-
1968-W275	2440217.48	1968 Dec 26 2330:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	74	-	-
1968-Y107	2440217.72	1968 Dec 27 0511:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	80	-	-
1968-W276	2440220.71	1968 Dec 30 0502:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	78	-	-
1968-Y108	2440220.96	1968 Dec 30 1100:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	80	-	-
1968-Y109	2440221.16	1968 Dec 30 1549:59	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	80	-	-
1968-W277	2440221.25	1968 Dec 30 1753:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	74	-	-
1968-Y110	2440221.49	1968 Dec 30 2351:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	80	-	-
1969-Y02	2440223.66	1969 Jan 2 0350	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	89	-	-
1969-Y03	2440223.90	1969 Jan 2 0942	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	88	-	-
1969-Y04	2440224.19	1969 Jan 2 1640	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	93	-	-
1969-Y05	2440224.20	1969 Jan 2 1645	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	91	-	-
1969-Y06	2440224.42	1969 Jan 2 2205	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	92	-	-
1969-Y07	2440224.50	1969 Jan 3 0000	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	91	-	-
1969-Y08	2440228.62	1969 Jan 7 0300	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	94	-	-
1969-Y09	2440228.66	1969 Jan 7 0352	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	90	-	-
1969-Y10	2440228.91	1969 Jan 7 0950	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	91	-	-
1969-Y11	2440228.92	1969 Jan 7 1000	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	90	-	-
1969-Y12	2440228.92	1969 Jan 7 1001	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1969-Y14	2440229.41	1969 Jan 7 2147	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	90	-	-
1969-Y15	2440229.88	1969 Jan 8 0900	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1969-Y17	2440232.66	1969 Jan 11 0351	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	91	-	-
1969-Y18	2440232.91	1969 Jan 11 0945	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	94	-	-
1969-Y19	2440232.92	1969 Jan 11 1000	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	92	-	-
1969-Y20	2440233.16	1969 Jan 11 1556	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	93	-	-
1969-Y21	2440233.19	1969 Jan 11 1630	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	92	-	-
1969-Y22	2440233.41	1969 Jan 11 2145	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	91	-	-
1969-Y23	2440233.42	1969 Jan 11 2200	M-100	-	MR-12?	-	-	-	VOKV?	GMS69A	M9127	-	-	89	-	-
1969-Y24	2440234.88	1969 Jan 13 0900	M-100	-	MR-12?	-	-	-	-	OK	-	-	-	88	-	-
1969-Y26	2440236.84	1969 Jan 15 0808	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y27	2440236.89	1969 Jan 15 0928	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1969-Y29	2440237.88	1969 Jan 16 0900	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1969-Y30	2440238.88	1969 Jan 17 0905	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1969-Y31	2440239.88	1969 Jan 18 0900	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y33	2440240.88	1969 Jan 19 0900	M-100	-	-	Particle flux 9	-	-	-	OK	-	-	-	91	-	-
1969-Y36	2440243.88	1969 Jan 22 0903	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1969-Y38	2440244.66	1969 Jan 23 0350	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	93	-	-
1969-Y39	2440244.67	1969 Jan 23 0400	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	93	-	-
1969-Y41	2440244.88	1969 Jan 23 0900	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1969-Y42	2440244.91	1969 Jan 23 0948	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	93	-	-
1969-Y43	2440244.92	1969 Jan 23 1000	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	89	-	-
1969-Y44	2440245.18	1969 Jan 23 1620	M-100	-	-	-	-	-	SHOK?	IOLZ	RODR	-	-	92	-	-
1969-Y46	2440245.41	1969 Jan 23 2149	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	94	-	-
1969-Y47	2440245.88	1969 Jan 24 0900	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1969-Y48	2440246.17	1969 Jan 24 1558	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	87	-	-
1969-Y51	2440246.88	1969 Jan 25 0900	M-100	-	-	Particle flux 10	-	-	-	OK	-	-	-	96	-	-
1969-Y52	2440247.88	1969 Jan 26 0900	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y53	2440248.66	1969 Jan 27 0353	M-100	-	-	-	-	-	VOKV?	GMS69A	M9127	-	-	91	-	-
1969-Y54	2440248.67	1969 Jan 27 0400	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	92	-	-
1969-Y55	2440248.90	1969 Jan 27 0943	M-100	-	-	Particle flux 11	-	-	-	OK	-	-	-	90	-	-
1969-Y56	2440248.91	1969 Jan 27 0945	M-100	-	-	-	-	-	VOKV	GMS69A	M9127	-	-	92	-	-
1969-Y57	2440249.16	1969 Jan 27 1545	M-100	-	-	-	-	-	VOKV	GMS69A	M9127	-	-	96	-	-
1969-Y59	2440249.19	1969 Jan 27 1640	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	96	-	-
1969-Y61	2440249.41	1969 Jan 27 2145	M-100	-	-	-	-	-	VOKV	GMS69A	M9127	-	-	96	-	-
1969-Y63	2440249.42	1969 Jan 27 2200	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	96	-	-
1969-Y64	2440249.88	1969 Jan 28 0907:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	94	-	-
1969-Y65	2440250.29	1969 Jan 28 1852:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	M9138	-	-	92	-	-
1969-Y66	2440250.88	1969 Jan 29 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	87	-	-
1969-Y67	2440250.92	1969 Jan 29 1002:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	92	-	-
1969-Y68	2440251.88	1969 Jan 30 0902:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y69	2440251.92	1969 Jan 30 1003:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	M9135	-	-	92	-	-
1969-Y70	2440252.34	1969 Jan 30 2004:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	M9206	-	-	91	-	-
1969-Y71	2440252.88	1969 Jan 31 0904:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	87	-	-
1969-Y72	2440253.29	1969 Jan 31 1900:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO6540	-	-	91	-	-
1969-Y73	2440254.29	1969 Feb 01 1900:00	M-100	-	M-100	-	MR-12	-	VOKV	GMS69A	M9205	-	-	87	-	-
1969-Y74	2440254.88	1969 Feb 02 0900:00	M-100	-	M-100	Particle flux 12	MR-12	-	-	OK	-	-	-	87	-	-
1969-Y75	2440255.25	1969 Feb 02 1805:00	M-100	-	M-100	-	MR-12	-	SHOK	GMS69B	M9126	-	-	91	-	-
1969-Y76	2440255.29	1969 Feb 02 1900:00	M-100	-	M-100	-	MR-12	-	VOKV	GMS69A	M9204	-	-	84	-	-
1969-Y77	2440256.25	1969 Feb 03 1806:00	M-100	-	M-100	-	MR-12	-	SHOK	GMS69B	M9125	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-Y78	2440256.33	1969 Feb 03 2000:00	M-100	-	M-100	-	MR-12	-	VOKV	KER	M9128	-	-	90	-	-
1969-Y79	2440257.25	1969 Feb 04 1800:00	M-100	-	M-100	-	MR-12	-	SHOK	GMS69B	M9124	-	-	96	-	-
1969-Y80	2440257.33	1969 Feb 04 2000:00	M-100	-	M-100	-	MR-12	-	VOKV	GMS69A	M9203	-	-	98	-	-
1969-Y81	2440257.83	1969 Feb 05 0802:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	85	-	-
1969-Y82	2440257.88	1969 Feb 05 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y83	2440258.25	1969 Feb 05 1800:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	M9123	-	-	89	-	-
1969-Y84	2440258.33	1969 Feb 05 2000:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	M9201	-	-	90	-	-
1969-Y85	2440258.88	1969 Feb 06 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	87	-	-
1969-Y86	2440259.24	1969 Feb 06 1745:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	LP01	-	-	90	-	-
1969-Y87	2440259.27	1969 Feb 06 1825:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	M9122	-	-	94	-	-
1969-Y88	2440259.33	1969 Feb 06 2000:00	M-100	-	M-100	-	-	-	VOKV	GMS69A	M9202	-	-	95	-	-
1969-Y89	2440259.88	1969 Feb 07 0900:00	M-100	-	M-100	Particle flux 13	-	-	-	OK	-	-	-	89	-	-
1969-Y90	2440260.22	1969 Feb 07 1720:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	M9120	-	-	86	-	-
1969-Y91	2440262.42	1969 Feb 09 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	LP02	-	-	91	-	-
1969-Y92	2440262.88	1969 Feb 10 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	89	-	-
1969-Y93	2440263.42	1969 Feb 10 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	M9121	-	-	93	-	-
1969-Y94	2440264.42	1969 Feb 11 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69B	M9166	-	-	93	-	-
1969-Y95	2440264.88	1969 Feb 12 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y96	2440265.04	1969 Feb 12 1303:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	81	-	-
1969-Y97	2440266.88	1969 Feb 14 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y98	2440269.88	1969 Feb 17 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	85	-	-
1969-Y99	2440271.89	1969 Feb 19 0928:00	M-100	-	M-100	Particle flux 14	-	-	-	OK	-	-	-	90	-	-
1969-Y100	2440272.08	1969 Feb 19 1348:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	84	-	-
1969-Y102	2440274.88	1969 Feb 22 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	94	-	-
1969-S164	2440285.88	1969 Mar 5 0900	M-100	-	-	Particle flux 16	-	-	-	OK	-	-	-	80?	-	-
1969-S183	2440292.88	1969 Mar 12 0900	M-100	-	-	Particle flux 17	-	-	-	OK	-	-	-	80?	-	-
1969-W1746	2440294.26	1969 Mar 13 1817	M-100	-	-	Particle flux 18	-	-	-	OK	-	-	-	80?	-	-
1969-S186	2440294.40	1969 Mar 13 2133	M-100	-	-	Particle flux 19	-	-	-	OK	-	-	-	80?	-	-
1969-S190	2440295.40	1969 Mar 14 2130	M-100	-	-	Particle flux 20	-	-	-	OK	-	-	-	80?	-	-
1969-W434	2440304.92	1969 Mar 24 1010:00	M-100	-	-	Particle study 1	-	-	-	GTsP-4	-	-	-	75	-	-
1969-S220	2440306.88	1969 Mar 26 0902	M-100	-	-	Particle flux 21	-	-	-	OK	-	-	-	80?	-	-
1969-Y105	2440310.02	1969 Mar 29 1230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1969-Y106	2440310.07	1969 Mar 29 1334:59	M-100	-	-	Particle study 2	-	-	-	GTsP-4	-	-	-	83	-	-
1969-Y107	2440310.15	1969 Mar 29 1530:00	M-100	-	-	Particle study 3	-	-	-	GTsP-4	-	-	-	83	-	-
1969-S248	2440313.31	1969 Apr 1 1930	M-100	-	-	Particle flux 22	-	-	-	OK	-	-	-	80?	-	-
1969-S250	2440313.86	1969 Apr 2 0832	M-100	-	-	Particle flux 23	-	-	-	OK	-	-	-	80?	-	-
1969-Y108	2440320.92	1969 Apr 9 1003	M-100	-	Sun-Atm 69	Particle study 4	-	-	-	GTsP-4	-	-	-	89	-	-
1969-Y112	2440327.28	1969 Apr 15 1849:00	M-100	-	M-100	Particle flux 24	-	-	-	OK	-	-	-	94	-	-
1969-Y113	2440327.83	1969 Apr 16 0800:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y114	2440327.92	1969 Apr 16 1003:00	M-100	-	Sun-Atm 69	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y115	2440330.06	1969 Apr 18 1330:00	M-100	-	Sun-Atm 69	Particle study 5	-	-	-	GTsP-4	-	-	-	87	-	-
1969-Y116	2440330.16	1969 Apr 18 1550:00	M-100	-	Sun-Atm 69	Particle study 6	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y119	2440331.06	1969 Apr 19 1332:00	M-100	-	Sun-Atm 69	Particle study 7	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y120	2440331.15	1969 Apr 19 1529:00	M-100	-	Sun-Atm 69	Particle study 8	-	-	-	GTsP-4	-	-	-	81	-	-
1969-Y122	2440332.02	1969 Apr 20 1234:00	M-100	-	Sun-Atm 69	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1969-Y123	2440332.16	1969 Apr 20 1554:00	M-100	-	Sun-Atm 69	Particle study 9	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y124	2440333.07	1969 Apr 21 1336:00	M-100	-	Sun-Atm 69	Particle study 10	-	-	-	GTsP-4	-	-	-	89	-	-
1969-Y125	2440333.16	1969 Apr 21 1556:00	M-100	-	Sun-Atm 69	Particle study 11	-	-	-	GTsP-4	-	-	-	87	-	-
1969-Y126	2440334.83	1969 Apr 23 0800:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	97	-	-
1969-Y127	2440335.01	1969 Apr 23 1210:00	M-100	-	Sun-Atm 69	Particle study 12	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y128	2440335.17	1969 Apr 23 1600:00	M-100	-	Sun-Atm 69	Particle study 13	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y129	2440335.53	1969 Apr 24 0045:00	M-100	-	M-100	Particle flux 25	-	-	-	OK	-	-	-	94	-	-
1969-Y131	2440341.67	1969 Apr 30 0401:00	M-100	-	M-100	Particle study 14	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y132	2440341.83	1969 Apr 30 0800:00	M-100	-	M-100	Particle flux 26	-	-	-	OK	-	-	-	94	-	-
1969-Y133	2440348.63	1969 May 07 0303:00	M-100	-	M-100	Particle study 15	-	-	-	GTsP-4	-	-	-	89	-	-
1969-Y137	2440355.83	1969 May 14 0800:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	92	-	-
1969-W726	2440360.67	1969 May 19 0400:00	M-100	-	M-100	-	-	-	SHOK	KER	M9128	-	-	76	-	-
1969-Y140	2440361.17	1969 May 19 1600:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9129	-	-	80	-	-
1969-Y141	2440361.42	1969 May 19 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9130	-	-	86	-	-
1969-Y142	2440362.42	1969 May 20 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9131	-	-	91	-	-
1969-Y143	2440362.84	1969 May 21 0803:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	92	-	-
1969-Y144	2440362.96	1969 May 21 1103:00	M-100	-	M-100	Particle study 16	-	-	-	GTsP-4	-	-	-	86	-	-
1969-Y145	2440363.17	1969 May 21 1600:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9132	-	-	83	-	-
1969-Y146	2440363.42	1969 May 21 2200:00	M-100	-	M-100	-	-	-	SHOK	IOLZ	IO6540	-	-	82	-	-
1969-Y147	2440363.67	1969 May 22 0400:00	M-100	-	M-100	-	-	-	SHOK	IOLZ	IO6540	-	-	88	-	-
1969-Y148	2440363.92	1969 May 22 1000:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9134	-	-	88	-	-
1969-Y149	2440365.42	1969 May 23 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9135	-	-	89	-	-
1969-Y150	2440365.96	1969 May 24 1100:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9136	-	-	89	-	-
1969-Y151	2440366.17	1969 May 24 1600:00	M-100	-	M-100	-	-	-	SHOK	IOLZ	IOSWR	-	-	92	-	-
1969-Y152	2440366.58	1969 May 25 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1969-Y153	2440366.67	1969 May 25 0400:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9138	-	-	92	-	-
1969-Y154	2440367.46	1969 May 25 2300:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9127	-	-	92	-	-
1969-Y155	2440368.42	1969 May 26 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9139	-	-	92	-	-
1969-Y156	2440369.17	1969 May 27 1600:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9140	-	-	88	-	-
1969-Y157	2440369.58	1969 May 28 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y158	2440369.86	1969 May 28 0835:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	91	-	-
1969-Y159	2440369.98	1969 May 28 1126:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	87	-	-
1969-Y160	2440371.63	1969 May 30 0302:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	86	-	-
1969-Y161	2440372.58	1969 May 31 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1969-Y162	2440375.42	1969 Jun 02 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9141	-	-	91	-	-
1969-Y163	2440376.42	1969 Jun 03 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9142	-	-	91	-	-
1969-Y164	2440376.58	1969 Jun 04 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y165	2440376.67	1969 Jun 04 0400:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9143	-	-	90	-	-
1969-Y166	2440376.67	1969 Jun 04 0400:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y167	2440376.84	1969 Jun 04 0811:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	93	-	-
1969-W793	2440377.17	1969 Jun 4 1559:59	M-100	-	-	-	-	-	SHOK	GMS69C	M9144	-	-	72	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-Y168	2440379.42	1969 Jun 06 2200:00	M-100	-	M-100	-	-	-	SHOK	IOLZ	IO65	-	-	92	-	-
1969-Y169	2440379.67	1969 Jun 07 0400:00	M-100	-	M-100	-	-	-	SHOK	IOLZ	IO65	-	-	89	-	-
1969-Y170	2440379.92	1969 Jun 07 1000:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9146	-	-	93	-	-
1969-Y171	2440380.17	1969 Jun 07 1600:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9147	-	-	92	-	-
1969-Y172	2440381.42	1969 Jun 08 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9148	-	-	89	-	-
1969-Y173	2440382.42	1969 Jun 09 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9149	-	-	87	-	-
1969-Y174	2440382.67	1969 Jun 10 0400:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9150	-	-	86	-	-
1969-Y175	2440383.43	1969 Jun 10 2214:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	87	-	-
1969-Y176	2440383.58	1969 Jun 11 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1969-Y177	2440383.84	1969 Jun 11 0805:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y178	2440384.42	1969 Jun 11 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9151	-	-	85	-	-
1969-Y180	2440385.42	1969 Jun 12 2200:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	LP1	-	-	90?	-	-
1969-Y181	2440385.67	1969 Jun 13 0400:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9152	-	-	91	-	-
1969-Y182	2440386.17	1969 Jun 13 1600:00	M-100	-	M-100	-	-	-	SHOK	GMS69C	M9153	-	-	86	-	-
1969-Y183	2440390.86	1969 Jun 18 0837:00	M-100	-	M-100	Particle flux 27	-	-	-	OK	-	-	-	91	-	-
1969-Y184	2440397.83	1969 Jun 25 0800:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	92	-	-
1969-Y185	2440397.92	1969 Jun 25 1001:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y187	2440404.88	1969 Jul 02 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	94	-	-
1969-Y188	2440404.92	1969 Jul 02 1001:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	87	-	-
1969-Y190	2440411.88	1969 Jul 09 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y192	2440418.88	1969 Jul 16 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	92	-	-
1969-Y193	2440418.92	1969 Jul 16 1004:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	86	-	-
1969-Y195	2440425.88	1969 Jul 23 0903:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90	-	-
1969-Y196	2440425.92	1969 Jul 23 1001:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y197	2440426.38	1969 Jul 23 2100:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y198	2440427.38	1969 Jul 24 2102:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1969-Y202	2440432.63	1969 Jul 30 0301:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y203	2440432.88	1969 Jul 30 0900:00	M-100	-	MR-12	-	-	-	-	OK	-	-	-	90	-	-
1969-Y205	2440439.88	1969 Aug 06 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	89	-	-
1969-Y209	2440453.88	1969 Aug 20 0900:00	M-100	-	MP-12	-	-	-	-	OK	-	-	-	90	-	-
1969-Y211	2440460.94	1969 Aug 27 1037:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	90?	-	-
1969-Y212	2440467.58	1969 Sep 03 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y213	2440467.88	1969 Sep 03 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	93	-	-
1969-Y214	2440467.92	1969 Sep 03 1003:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	93	-	-
1969-Y215	2440474.58	1969 Sep 10 0200:00	M-100	?	MR-12	-	-	-	-	MLD	-	-	-	91	-	-
1969-Y216	2440474.88	1969 Sep 10 0900:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	93	-	-
1969-Y217	2440481.33	1969 Sep 16 1950:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	88	-	-
1969-Y218	2440481.40	1969 Sep 16 2143:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	90?	-	-
1969-Y219	2440481.58	1969 Sep 17 0200:00	M-100	-	M-100	-	-	-	-	MLD	-	-	-	89	-	-
1969-Y220	2440481.88	1969 Sep 17 0910:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	98	-	-
1969-Y221	2440481.92	1969 Sep 17 1002:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	90	-	-
1969-Y222	2440482.33	1969 Sep 17 1950:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	90	-	-
1969-Y223	2440482.40	1969 Sep 17 2140:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	87	-	-
1969-Y224	2440482.99	1969 Sep 18 1145:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	89	-	-
1969-Y225	2440483.42	1969 Sep 18 2159:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	87	-	-
1969-Y226	2440483.46	1969 Sep 18 2308:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	89	-	-
1969-Y227	2440484.34	1969 Sep 19 2010:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	88	-	-
1969-Y228	2440484.44	1969 Sep 19 2232:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	88	-	-
1969-W1276	2440484.92	1969 Sep 20 1007:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	77	-	-
1969-Y229	2440485.34	1969 Sep 20 2008:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	IO65	-	-	90	-	-
1969-Y230	2440488.58	1969 Sep 24 0200:00	M-100	-	M-100	-	-	-	-	MLD	-	-	-	95	-	-
1969-Y231	2440488.67	1969 Sep 24 0408:00	M-100	-	M-100	-	-	-	-	GTsP-4	-	-	-	89	-	-
1969-Y232	2440488.89	1969 Sep 24 0920:00	M-100	-	M-100	-	-	-	-	OK	-	-	-	87	-	-
1969-Y233	2440490.47	1969 Sep 25 2315:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	RODR	-	-	90	-	-
1969-Y234	2440491.34	1969 Sep 26 2005:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	RODR	-	-	89	-	-
1969-Y235	2440491.42	1969 Sep 26 2200:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	RODR	-	-	91	-	-
1969-Y236	2440492.29	1969 Sep 27 1900	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	88	-	-
1969-Y237	2440493.34	1969 Sep 28 2003	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	89	-	-
1969-Y238	2440493.42	1969 Sep 28 2200	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	90	-	-
1969-Y239	2440494.39	1969 Sep 29 2123:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	RODR	-	-	88	-	-
1969-Y240	2440494.44	1969 Sep 29 2231:00	M-100	-	M-100	-	-	-	VOKV	IOLZ	RODR	-	-	89	-	-
1969-Y241	2440495.88	1969 Oct 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y243	2440497.08	1969 Oct 02 1401:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y244	2440497.86	1969 Oct 03 0841:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y245	2440502.58	1969 Oct 08 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1969-Y246	2440502.67	1969 Oct 08 0405:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1969-Y247	2440502.88	1969 Oct 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1969-Y249	2440506.33	1969 Oct 11 2000:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	87	-	-
1969-Y250	2440506.41	1969 Oct 11 2154:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	88	-	-
1969-Y251	2440507.33	1969 Oct 12 1950:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	88	-	-
1969-Y252	2440507.41	1969 Oct 12 2144:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	87	-	-
1969-Y253	2440508.33	1969 Oct 13 1955:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	87	-	-
1969-Y254	2440508.41	1969 Oct 13 2155:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	87	-	-
1969-Y255	2440509.41	1969 Oct 14 2145:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	87	-	-
1969-Y256	2440509.58	1969 Oct 15 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1969-Y257	2440509.88	1969 Oct 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y258	2440510.33	1969 Oct 15 1957:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	89	-	-
1969-Y259	2440510.41	1969 Oct 15 2145:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	93	-	-
1969-Y260	2440510.58	1969 Oct 16 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1969-Y261	2440510.92	1969 Oct 16 1002:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y263	2440513.40	1969 Oct 18 2136:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	88	-	-
1969-Y264	2440513.44	1969 Oct 18 2236:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	87	-	-
1969-Y265	2440514.30	1969 Oct 19 1906:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	91	-	-
1969-Y266	2440514.42	1969 Oct 19 2200:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	83	-	-
1969-Y267	2440515.31	1969 Oct 20 1920:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	95	-	-
1969-Y268	2440515.43	1969 Oct 20 2217:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	94	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-Y269	2440515.91	1969 Oct 21 0949:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	89	-	-
1969-Y270	2440516.29	1969 Oct 21 1854:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	88	-	-
1969-Y271	2440516.37	1969 Oct 21 2058:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	88	-	-
1969-Y272	2440516.62	1969 Oct 22 0300:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1969-Y273	2440516.88	1969 Oct 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1969-Y276	2440523.59	1969 Oct 29 0207:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y277	2440523.88	1969 Oct 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1969-Y278	2440530.59	1969 Nov 05 0207:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y279	2440530.88	1969 Nov 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1969-Y280	2440537.60	1969 Nov 12 0219:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y281	2440537.88	1969 Nov 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1969-Y284	2440544.58	1969 Nov 19 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y285	2440544.88	1969 Nov 19 0903:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y286	2440551.58	1969 Nov 26 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1969-Y287	2440551.88	1969 Nov 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y288	2440552.92	1969 Nov 27 1003:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1969-Y289	2440565.58	1969 Dec 10 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1969-Y290	2440566.92	1969 Dec 11 1001:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1969-Y292	2440572.58	1969 Dec 17 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1969-Y293	2440572.89	1969 Dec 17 0915:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1969-Y295	2440573.67	1969 Dec 18 0407:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y296	2440579.69	1969 Dec 24 0430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1969-Y297	2440579.70	1969 Dec 24 0452:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1969-Y298	2440585.22	1969 Dec 29 1710:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1969-Y299	2440586.58	1969 Dec 31 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1969-Y300	2440586.88	1969 Dec 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y01	2440593.42	1970 Jan 06 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	91	-	-
1970-Y02	2440593.50	1970 Jan 07 0001:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	93	-	-
1970-Y03	2440593.58	1970 Jan 07 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y04	2440594.35	1970 Jan 07 2025:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	89	-	-
1970-Y05	2440594.43	1970 Jan 07 2218:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	87	-	-
1970-Y07	2440595.36	1970 Jan 08 2034:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	86	-	-
1970-Y08	2440595.44	1970 Jan 08 2239:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	85?	-	-
1970-Y10	2440596.35	1970 Jan 09 2020:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	92	-	-
1970-Y11	2440596.42	1970 Jan 09 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	87	-	-
1970-Y12	2440597.33	1970 Jan 10 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	93	-	-
1970-Y13	2440598.33	1970 Jan 11 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	87	-	-
1970-Y15	2440600.58	1970 Jan 14 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1970-Y17	2440600.68	1970 Jan 14 0417:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1970-Y18	2440600.89	1970 Jan 14 0917:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y19	2440600.94	1970 Jan 14 1035:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y21	2440604.33	1970 Jan 17 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	88	-	-
1970-Y22	2440605.34	1970 Jan 18 2006:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	81	-	-
1970-Y23	2440605.42	1970 Jan 18 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	86	-	-
1970-Y24	2440606.33	1970 Jan 19 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	90	-	-
1970-Y25	2440606.42	1970 Jan 19 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	84	-	-
1970-Y26	2440607.31	1970 Jan 20 1920:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	87	-	-
1970-Y27	2440607.37	1970 Jan 20 2049:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	87	-	-
1970-Y28	2440607.44	1970 Jan 20 2237:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	86	-	-
1970-Y29	2440607.58	1970 Jan 21 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1970-Y31	2440608.39	1970 Jan 21 2115:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	88	-	-
1970-Y32	2440611.88	1970 Jan 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y33	2440614.58	1970 Jan 28 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y34	2440614.88	1970 Jan 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y35	2440614.93	1970 Jan 28 1015:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y37	2440616.88	1970 Jan 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y38	2440618.88	1970 Feb 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1970-Y39	2440621.58	1970 Feb 04 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1970-Y40	2440621.88	1970 Feb 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y41	2440621.88	1970 Feb 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y42	2440622.33	1970 Feb 04 2001:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	87	-	-
1970-Y43	2440622.42	1970 Feb 04 2201:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	87	-	-
1970-Y44	2440622.92	1970 Feb 05 1005:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1970-Y45	2440623.36	1970 Feb 05 2045:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	83	-	-
1970-Y46	2440623.56	1970 Feb 06 0123:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	86	-	-
1970-Y47	2440623.89	1970 Feb 06 0919:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y48	2440624.33	1970 Feb 06 2001:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	87	-	-
1970-Y49	2440624.42	1970 Feb 06 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	86	-	-
1970-Y50	2440625.37	1970 Feb 07 2050:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	89	-	-
1970-Y51	2440625.44	1970 Feb 07 2232:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	91	-	-
1970-Y52	2440625.88	1970 Feb 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y53	2440628.59	1970 Feb 11 0210:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1970-Y54	2440628.70	1970 Feb 11 0441:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y55	2440628.88	1970 Feb 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y56	2440628.92	1970 Feb 11 1010:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y57	2440629.42	1970 Feb 11 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	88	-	-
1970-Y58	2440630.33	1970 Feb 12 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	90	-	-
1970-Y59	2440631.33	1970 Feb 13 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	90	-	-
1970-Y60	2440631.42	1970 Feb 13 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	93	-	-
1970-Y61	2440631.88	1970 Feb 14 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y62	2440632.33	1970 Feb 14 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	90	-	-
1970-Y63	2440632.42	1970 Feb 14 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO6540	-	-	90	-	-
1970-Y64	2440633.88	1970 Feb 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y65	2440635.36	1970 Feb 17 2043:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	83	-	-
1970-Y353	2440635.38	1970 Feb 17 2100	M-100	-	-	Atomic O	[Same as 2043Z?]	-	SHOK	KER	LEC	-	-	90?	-	-
1970-Y66	2440635.45	1970 Feb 17 2245:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-Y67	2440635.58	1970 Feb 18 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1970-Y68	2440635.68	1970 Feb 18 0418:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y69	2440635.88	1970 Feb 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y72	2440636.35	1970 Feb 18 2017:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	87	-	-
1970-Y73	2440636.43	1970 Feb 18 2218:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	88	-	-
1970-Y74	2440638.88	1970 Feb 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y75	2440642.59	1970 Feb 25 0210:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1970-Y76	2440642.59	1970 Feb 25 0210:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1970-Y77	2440643.02	1970 Feb 25 1230:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y78	2440643.88	1970 Feb 26 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1970-Y79	2440646.13	1970 Feb 28 1510:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y80	2440649.64	1970 Mar 04 0315:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1970-Y81	2440649.88	1970 Mar 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y82	2440650.94	1970 Mar 05 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1970-Y83	2440652.88	1970 Mar 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1970-Y84	2440654.34	1970 Mar 08 2010:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	85?	-	-
1970-Y85	2440654.42	1970 Mar 08 2211:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	85?	-	-
1970-Y86	2440656.36	1970 Mar 10 2034:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	96	-	-
1970-Y87	2440656.45	1970 Mar 10 2242:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	94	-	-
1970-Y88	2440656.58	1970 Mar 11 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y89	2440656.88	1970 Mar 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y90	2440657.33	1970 Mar 11 1954:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	94	-	-
1970-Y91	2440657.41	1970 Mar 11 2144:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	96	-	-
1970-Y92	2440657.92	1970 Mar 12 1001:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1970-Y93	2440658.35	1970 Mar 12 2025:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	94	-	-
1970-Y94	2440658.41	1970 Mar 12 2154:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	91	-	-
1970-Y95	2440659.34	1970 Mar 13 2013:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	92	-	-
1970-Y96	2440659.40	1970 Mar 13 2134:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO65	-	-	90	-	-
1970-Y97	2440663.58	1970 Mar 18 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1970-Y98	2440663.88	1970 Mar 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y99	2440664.67	1970 Mar 19 0405:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1970-Y100	2440666.88	1970 Mar 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1970-Y101	2440670.31	1970 Mar 24 1923:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	94	-	-
1970-Y102	2440670.40	1970 Mar 24 2132:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	93	-	-
1970-Y103	2440670.58	1970 Mar 25 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1970-Y104	2440670.88	1970 Mar 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1970-Y105	2440671.32	1970 Mar 25 1947:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	85?	-	-
1970-Y107	2440671.37	1970 Mar 25 2059:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	94	-	-
1970-Y108	2440671.38	1970 Mar 25 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1970-Y109	2440672.36	1970 Mar 26 2032:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	91	-	-
1970-Y110	2440672.39	1970 Mar 26 2120:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	90	-	-
1970-Y114	2440673.88	1970 Mar 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1970-Y115	2440675.33	1970 Mar 29 1953:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	89	-	-
1970-Y116	2440675.40	1970 Mar 29 2137:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	92	-	-
1970-Y117	2440676.33	1970 Mar 30 1956:00	M-100	-	-	-	-	-	VOKV	IOLZ	RODR	-	-	93	-	-
1970-Y118	2440677.58	1970 Apr 01 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y119	2440677.71	1970 Apr 01 0501:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1970-Y120	2440677.88	1970 Apr 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y121	2440680.88	1970 Apr 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y122	2440683.33	1970 Apr 06 1954:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	95	-	-
1970-Y123	2440683.41	1970 Apr 06 2145:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	88	-	-
1970-Y124	2440684.31	1970 Apr 07 1931:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	91	-	-
1970-Y125	2440684.88	1970 Apr 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y127	2440685.32	1970 Apr 08 1940:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	92	-	-
1970-Y128	2440685.40	1970 Apr 08 2130:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	92	-	-
1970-Y132	2440686.33	1970 Apr 09 1949:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	94	-	-
1970-Y133	2440686.38	1970 Apr 09 2110:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	95	-	-
1970-Y134	2440687.31	1970 Apr 10 1931:00	M-100	-	-	-	-	-	VOKV	IOLZ	IOSWR	-	-	94	-	-
1970-Y135	2440687.88	1970 Apr 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y138	2440690.33	1970 Apr 13 2000:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	93	-	-
1970-Y141	2440691.33	1970 Apr 14 2000:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	87	-	-
1970-Y142	2440691.59	1970 Apr 15 0205:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1970-Y143	2440691.88	1970 Apr 15 0911:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y145	2440692.31	1970 Apr 15 1925:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	92	-	-
1970-Y147	2440692.39	1970 Apr 15 2126:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	95	-	-
1970-Y149	2440692.83	1970 Apr 16 0802:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1970-Y150	2440693.33	1970 Apr 16 1950:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	96	-	-
1970-Y151	2440693.39	1970 Apr 16 2128:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	95	-	-
1970-Y153	2440694.32	1970 Apr 17 1940:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	92	-	-
1970-Y154	2440694.39	1970 Apr 17 2127:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	93	-	-
1970-Y155	2440695.30	1970 Apr 18 1917:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	94	-	-
1970-Y156	2440695.40	1970 Apr 18 2133:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO6540	-	-	94	-	-
1970-Y157	2440698.95	1970 Apr 22 1050:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y158	2440703.71	1970 Apr 27 0501:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1970-Y159	2440705.59	1970 Apr 29 0205:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1970-Y160	2440705.88	1970 Apr 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y161	2440712.58	1970 May 06 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y162	2440712.88	1970 May 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y163	2440719.58	1970 May 13 0150:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1970-Y164	2440719.88	1970 May 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y165	2440720.88	1970 May 14 0901:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y166	2440720.94	1970 May 14 1032:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y167	2440726.58	1970 May 20 0150:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1970-Y168	2440726.88	1970 May 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y169	2440727.81	1970 May 21 0731:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1970-Y170	2440727.88	1970 May 21 0901:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-Y171	2440733.59	1970 May 27 0205:00	M-100	-	-	-	-	-	-	MLD	-	-	-	97	-	-
1970-Y172	2440733.88	1970 May 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1970-Y173	2440741.92	1970 Jun 04 1001:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1970-Y175	2440747.59	1970 Jun 10 0210:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y176	2440747.88	1970 Jun 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1970-Y177	2440749.67	1970 Jun 12 0359:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y178	2440754.58	1970 Jun 17 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1970-Y179	2440754.88	1970 Jun 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y180	2440755.46	1970 Jun 17 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1970-Y181	2440756.33	1970 Jun 18 2000:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP1	-	-	91	-	-
1970-Y182	2440758.33	1970 Jun 20 2000:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP2	-	-	90	-	-
1970-Y183	2440759.38	1970 Jun 21 2100:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP3	-	-	91	-	-
1970-Y184	2440761.88	1970 Jun 24 0905:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y186	2440768.59	1970 Jul 01 0205:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y187	2440768.88	1970 Jul 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y189	2440769.34	1970 Jul 01 2010:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	89	-	-
1970-Y190	2440769.42	1970 Jul 01 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	92	-	-
1970-Y191	2440773.34	1970 Jul 05 2005:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP4	-	-	88	-	-
1970-Y192	2440774.27	1970 Jul 06 1824:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1970-Y193	2440774.34	1970 Jul 06 2015:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP5	-	-	94	-	-
1970-Y194	2440774.50	1970 Jul 07 0005:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1970-Y195	2440775.50	1970 Jul 08 0005:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1970-Y196	2440775.88	1970 Jul 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y197	2440775.92	1970 Jul 08 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y198	2440776.33	1970 Jul 08 1956:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP6	-	-	85?	-	-
1970-Y199	2440778.27	1970 Jul 10 1830:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP7	-	-	85?	-	-
1970-Y200	2440781.33	1970 Jul 13 2000:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP8	-	-	86	-	-
1970-Y201	2440781.44	1970 Jul 13 2230:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP8	-	-	92	-	-
1970-Y202	2440782.81	1970 Jul 15 0720:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y203	2440782.88	1970 Jul 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y204	2440783.25	1970 Jul 15 1800:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP9	-	-	95	-	-
1970-Y205	2440783.33	1970 Jul 15 2000:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP9	-	-	93	-	-
1970-Y206	2440785.35	1970 Jul 17 2024:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP10	-	-	85?	-	-
1970-Y207	2440785.43	1970 Jul 17 2222:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP11	-	-	86	-	-
1970-Y208	2440786.34	1970 Jul 18 2015:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP10	-	-	90	-	-
1970-Y209	2440786.42	1970 Jul 18 2205:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP10	-	-	89	-	-
1970-Y210	2440788.33	1970 Jul 20 2000:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP12	-	-	91	-	-
1970-Y211	2440788.41	1970 Jul 20 2150:00	M-100	-	-	-	-	-	SHOK	GMS7OA	LP12	-	-	91	-	-
1970-Y212	2440789.33	1970 Jul 21 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	92	-	-
1970-Y213	2440789.88	1970 Jul 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y214	2440790.07	1970 Jul 22 1335:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y215	2440790.37	1970 Jul 22 2054:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y216	2440796.58	1970 Jul 29 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1970-Y217	2440796.88	1970 Jul 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y218	2440803.60	1970 Aug 05 0220:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1970-Y219	2440804.21	1970 Aug 05 1700:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1970-Y220	2440806.88	1970 Aug 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y221	2440810.58	1970 Aug 12 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y222	2440810.88	1970 Aug 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y223	2440811.75	1970 Aug 13 0602:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1970-Y224	2440817.58	1970 Aug 19 0150:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y225	2440817.88	1970 Aug 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y226	2440818.96	1970 Aug 20 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y227	2440820.88	1970 Aug 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y228	2440824.58	1970 Aug 26 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y229	2440824.88	1970 Aug 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y230	2440825.88	1970 Aug 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y231	2440825.92	1970 Aug 27 1002:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y232	2440831.88	1970 Sep 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y233	2440832.07	1970 Sep 02 1335:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1970-Y236	2440832.71	1970 Sep 03 0501:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y237	2440838.58	1970 Sep 09 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y238	2440838.88	1970 Sep 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y240	2440839.92	1970 Sep 10 1002:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1970-Y241	2440844.92	1970 Sep 15 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y242	2440845.59	1970 Sep 16 0205:00	M-100	-	-	-	-	-	-	MLD	-	-	-	98	-	-
1970-Y244	2440852.88	1970 Sep 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y247	2440859.58	1970 Sep 30 0155:00	M-100	-	-	-	-	-	-	MLD	-	-	-	97	-	-
1970-Y248	2440859.88	1970 Sep 30 0905:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1970-Y250	2440860.30	1970 Sep 30 1910:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1970-Y251	2440866.58	1970 Oct 07 0150:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y252	2440866.67	1970 Oct 07 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1970-Y257	2440873.58	1970 Oct 14 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1970-Y259	2440873.67	1970 Oct 14 0403:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y260	2440873.91	1970 Oct 14 0955:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y261	2440880.59	1970 Oct 21 0215:00	M-100	-	-	-	-	-	-	MLD	-	-	-	97	-	-
1970-Y262	2440880.67	1970 Oct 21 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1970-Y263	2440880.88	1970 Oct 21 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y266	2440887.58	1970 Oct 28 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1970-Y267	2440887.88	1970 Oct 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1970-Y270	2440888.29	1970 Oct 28 1900:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	92	-	-
1970-Y271	2440892.42	1970 Nov 01 2200:00	M-100	-	-	-	-	-	SHIR	GMS7OC	LP1	-	-	96	-	-
1970-Y272	2440894.58	1970 Nov 04 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y273	2440894.67	1970 Nov 04 0401:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1970-Y274	2440894.89	1970 Nov 04 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1970-Y277	2440897.17	1970 Nov 06 1600:00	M-100	-	-	-	-	-	VOKV	GMS7OD	LP1	-	-	94	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-Y278	2440897.54	1970 Nov 07 0100:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	96	-	-
1970-Y279	2440901.88	1970 Nov 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1970-Y280	2440902.88	1970 Nov 12 0901:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y283	2440905.12	1970 Nov 14 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP2	-	-	93	-	-
1970-Y284	2440908.12	1970 Nov 17 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP3	-	-	90	-	-
1970-Y285	2440908.64	1970 Nov 18 0320:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1970-Y286	2440908.88	1970 Nov 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1970-Y287	2440909.12	1970 Nov 18 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP4	-	-	90	-	-
1970-Y290	2440910.12	1970 Nov 19 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP5	-	-	91	-	-
1970-Y291	2440910.50	1970 Nov 20 0000:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP2	-	-	91	-	-
1970-Y292	2440910.67	1970 Nov 20 0401:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1970-Y293	2440911.17	1970 Nov 20 1600:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP6	-	-	87	-	-
1970-Y294	2440912.12	1970 Nov 21 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP7	-	-	91	-	-
1970-Y295	2440912.50	1970 Nov 22 0000:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP3	-	-	94	-	-
1970-Y296	2440913.54	1970 Nov 23 0100:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP4	-	-	96	-	-
1970-Y297	2440914.12	1970 Nov 23 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP8	-	-	88	-	-
1970-Y298	2440915.12	1970 Nov 24 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP9	-	-	90	-	-
1970-Y299	2440915.29	1970 Nov 24 1900:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP5	-	-	95	-	-
1970-Y301	2440916.83	1970 Nov 26 0801:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1970-Y302	2440917.21	1970 Nov 26 1700:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP6	-	-	93	-	-
1970-Y303	2440917.73	1970 Nov 27 0525:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1970-Y304	2440920.12	1970 Nov 29 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP10	-	-	87	-	-
1970-Y305	2440920.62	1970 Nov 30 0300:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP7	-	-	92	-	-
1970-Y306	2440922.88	1970 Dec 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1970-Y308	2440923.29	1970 Dec 02 1900:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP8	-	-	93	-	-
1970-Y309	2440923.38	1970 Dec 02 2100:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP9	-	-	92	-	-
1970-Y310	2440923.79	1970 Dec 03 0703:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y311	2440923.92	1970 Dec 03 1000:00	M-100	-	-	-	-	-	VOKV	OJP	-	-	-	87	-	-
1970-Y313	2440926.29	1970 Dec 05 1900:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP10	-	-	93	-	-
1970-Y314	2440926.92	1970 Dec 06 1000:00	M-100	-	-	-	-	-	VOKV	OJP	-	-	-	92	-	-
1970-Y315	2440928.17	1970 Dec 07 1600:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP11	-	-	91	-	-
1970-Y316	2440929.12	1970 Dec 08 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP11	-	-	90	-	-
1970-Y317	2440929.58	1970 Dec 09 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1970-Y318	2440929.88	1970 Dec 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y319	2440929.92	1970 Dec 09 1000:00	M-100	-	-	-	-	-	KORO	GMS70E	LP1	-	-	90	-	-
1970-Y321	2440930.24	1970 Dec 09 1745:00	M-100	-	-	ISRO-8.001	TERLS-258	-	-	TERLS	-	-	-	91	-	-
1970-Y322	2440931.65	1970 Dec 11 0341:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y323	2440931.92	1970 Dec 11 1000:00	M-100	-	-	-	-	-	KORO	GMS70E	LP2	-	-	90	-	-
1970-Y324	2440934.12	1970 Dec 13 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP12	-	-	88	-	-
1970-Y326	2440935.12	1970 Dec 14 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP13	-	-	85	-	-
1970-Y327	2440936.58	1970 Dec 16 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y328	2440936.88	1970 Dec 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1970-Y329	2440937.12	1970 Dec 16 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP14	-	-	94	-	-
1970-Y331	2440937.23	1970 Dec 16 1736:00	M-100	-	-	ISRO-8.002	TERLS-270	-	-	TERLS	-	-	-	93	-	-
1970-Y332	2440938.25	1970 Dec 17 1800:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP12	-	-	92	-	-
1970-Y333	2440940.08	1970 Dec 19 1400:00	M-100	-	-	-	-	-	KORO	GMS70E	LP3	-	-	92	-	-
1970-Y334	2440942.65	1970 Dec 22 0332:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1970-Y335	2440942.79	1970 Dec 22 0700:00	M-100	-	-	-	-	-	KORO	GMS70E	LP4	-	-	92	-	-
1970-Y336	2440943.58	1970 Dec 23 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1970-Y337	2440943.88	1970 Dec 23 0906:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1970-Y338	2440944.08	1970 Dec 23 1400:00	M-100	-	-	-	-	-	KORO	GMS70E	LP5	-	-	91	-	-
1970-Y340	2440944.23	1970 Dec 23 1730:00	M-100	-	-	ISRO-8.003	TERLS-271	-	-	TERLS	-	-	-	93	-	-
1970-Y341	2440944.96	1970 Dec 24 1103:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y342	2440947.12	1970 Dec 26 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP15	-	-	94	-	-
1970-Y343	2440948.08	1970 Dec 27 1400:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP13	-	-	88	-	-
1970-Y344	2440949.08	1970 Dec 28 1400:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP13	-	-	89	-	-
1970-Y345	2440949.33	1970 Dec 28 2000:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP13	-	-	94	-	-
1970-Y346	2440949.96	1970 Dec 29 1100:00	M-100	-	-	-	-	-	KORO	GMS70E	LP6	-	-	92	-	-
1970-Y347	2440950.58	1970 Dec 30 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1970-Y348	2440950.69	1970 Dec 30 0431:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1970-Y349	2440950.87	1970 Dec 30 0855:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1970-Y350	2440951.12	1970 Dec 30 1500:00	M-100	-	-	-	-	-	VOKV	ANTIM	-	-	-	94	-	-
1970-Y351	2440951.23	1970 Dec 30 1735:00	M-100	-	-	ISRO-8.004	TERLS-272	-	-	TERLS	-	-	-	94	-	-
1970-Y352	2440951.79	1970 Dec 31 0700:00	M-100	-	-	-	-	-	KORO	GMS70E	LP7	-	-	91	-	-
1971-Y01	2440953.34	1971 Jan 01 2003:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP14	-	-	90	-	-
1971-Y02	2440957.58	1971 Jan 06 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y03	2440957.88	1971 Jan 06 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	97	-	-
1971-Y05	2440958.23	1971 Jan 06 1730:00	M-100	-	-	ISRO-8.005	TERLS-275	-	-	TERLS	-	-	-	89	-	-
1971-Y06	2440958.88	1971 Jan 07 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y07	2440959.88	1971 Jan 08 0900:00	M-100	-	-	-	-	-	KORO	GMS70E	LP8	-	-	85	-	-
1971-Y09	2440962.96	1971 Jan 11 1100:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP15	-	-	90	-	-
1971-Y10	2440963.42	1971 Jan 11 2206:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP16	-	-	90	-	-
1971-Y11	2440963.75	1971 Jan 12 0555:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP16	-	-	90	-	-
1971-Y12	2440963.98	1971 Jan 12 1130:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP16	-	-	90	-	-
1971-Y13	2440964.21	1971 Jan 12 1657:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP16	-	-	90	-	-
1971-Y14	2440964.35	1971 Jan 12 2030:00	M-100	-	-	-	-	-	SHIR	GMS70C	LP16	-	-	90	-	-
1971-Y15	2440964.58	1971 Jan 13 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y16	2440964.88	1971 Jan 13 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y17	2440965.12	1971 Jan 13 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP16	-	-	90	-	-
1971-Y19	2440965.21	1971 Jan 13 1700:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP17	-	-	92	-	-
1971-Y20	2440965.23	1971 Jan 13 1735:00	M-100	-	-	ISRO-8.006	TERLS-277	-	-	TERLS	-	-	-	94	-	-
1971-Y21	2440965.75	1971 Jan 14 0600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1971-Y22	2440966.00	1971 Jan 14 1200:00	M-100	-	-	-	-	-	KORO	GMS70E	LP9	-	-	87	-	-
1971-Y23	2440966.12	1971 Jan 14 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP18	-	-	85?	-	-
1971-Y24	2440967.96	1971 Jan 16 1100:00	M-100	-	-	-	-	-	KORO	GMS70E	LP10	-	-	88	-	-
1971-Y25	2440968.12	1971 Jan 16 1500:00	M-100	-	-	-	-	-	VOKV	GMS70D	LP19	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-Y26	2440969.88	1971 Jan 18 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y27	2440969.96	1971 Jan 18 1100:00	M-100	-	-	-	-	-	KORO	GMS70E	LP11	-	-	90	-	-
1971-Y29	2440971.58	1971 Jan 20 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1971-Y30	2440971.69	1971 Jan 20 0430:00	M-100	-	-	ISRO-8.007	TERLS-278	-	-	TERLS	-	-	-	91	-	-
1971-Y31	2440971.88	1971 Jan 20 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y32	2440971.96	1971 Jan 20 1100:00	M-100	-	-	-	-	-	KORO	GMS70E	LP12	-	-	92	-	-
1971-Y34	2440972.23	1971 Jan 20 1730:00	M-100	-	-	ISRO-8.008	TERLS-279	-	-	TERLS	-	-	-	90	-	-
1971-Y36	2440972.92	1971 Jan 21 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y37	2440973.88	1971 Jan 22 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y38	2440973.96	1971 Jan 22 1100:00	M-100	-	-	-	-	-	KORO	GMS70E	LP13	-	-	93	-	-
1971-Y40	2440976.08	1971 Jan 24 1400:00	M-100	-	-	-	-	-	KORO	GMS70E	LP14	-	-	92	-	-
1971-Y41	2440976.88	1971 Jan 25 0912:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y42	2440978.62	1971 Jan 27 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y43	2440978.88	1971 Jan 27 0912:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y45	2440980.88	1971 Jan 29 0902:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y47	2440981.72	1971 Jan 30 0522:00	M-100	-	-	ISRO-8.009	TERLS-283	-	-	TERLS	-	-	-	89	-	-
1971-Y48	2440983.75	1971 Feb 01 0600:00	M-100	-	-	-	-	-	KORO	GMS70E	LP15	-	-	82	-	-
1971-Y49	2440983.88	1971 Feb 01 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y50	2440985.58	1971 Feb 03 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y51	2440985.71	1971 Feb 03 0500:00	M-100	-	-	-	-	-	KORO	GMS70E	LP16	-	-	89	-	-
1971-Y54	2440986.30	1971 Feb 03 1905:00	M-100	-	-	ISRO-8.010	TERLS-284	-	-	TERLS	-	-	-	91	-	-
1971-Y56	2440986.62	1971 Feb 04 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y57	2440987.75	1971 Feb 05 0600:00	M-100	-	-	-	-	-	KORO	GMS70E	LP17	-	-	89	-	-
1971-Y58	2440987.88	1971 Feb 05 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y59	2440990.83	1971 Feb 08 0800:00	M-100	-	-	-	-	-	KORO	GMS70E	LP18	-	-	91	-	-
1971-Y60	2440990.88	1971 Feb 08 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1971-Y62	2440992.88	1971 Feb 10 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y64	2440992.92	1971 Feb 10 1000:00	M-100	-	-	-	-	-	KORO	GMS70E	LP19	-	-	87	-	-
1971-Y65	2440993.25	1971 Feb 10 1800:00	M-100	-	-	ISRO-8.011	TERLS-285	-	-	TERLS	-	-	-	91	-	-
1971-Y66	2440994.88	1971 Feb 12 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y67	2440995.88	1971 Feb 13 0900:00	M-100	-	-	-	-	-	KORO	GMS70E	LP20	-	-	90	-	-
1971-Y68	2440997.88	1971 Feb 15 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y69	2440999.54	1971 Feb 17 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y70	2440999.58	1971 Feb 17 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y71	2440999.88	1971 Feb 17 0900:00	M-100	-	-	-	-	-	KORO	GMS70E	LP21	-	-	87	-	-
1971-Y72	2440999.88	1971 Feb 17 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y74	2441000.23	1971 Feb 17 1730:00	M-100	-	-	ISRO-8.012	TERLS-286	-	-	TERLS	-	-	-	84	-	-
1971-Y76	2441004.88	1971 Feb 22 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y77	2441006.58	1971 Feb 24 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1971-Y78	2441006.83	1971 Feb 24 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y79	2441006.88	1971 Feb 24 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y82	2441007.23	1971 Feb 24 1730:00	M-100	-	-	ISRO-8.013	TERLS-289	-	-	TERLS	-	-	-	91	-	-
1971-Y84	2441008.90	1971 Feb 26 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y85	2441013.58	1971 Mar 03 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y86	2441013.58	1971 Mar 03 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y87	2441013.88	1971 Mar 03 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y89	2441014.25	1971 Mar 03 1800:00	M-100	-	-	ISRO-8.014	TERLS-290	-	-	TERLS	-	-	-	90	-	-
1971-Y91	2441020.58	1971 Mar 10 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y92	2441020.58	1971 Mar 10 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y93	2441020.88	1971 Mar 10 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y94	2441021.23	1971 Mar 10 1730:00	M-100	-	-	ISRO-8.015	TERLS-291	-	-	TERLS	-	-	-	90	-	-
1971-Y96	2441027.58	1971 Mar 17 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1971-Y97	2441027.88	1971 Mar 17 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y98	2441028.12	1971 Mar 17 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y99	2441028.19	1971 Mar 17 1630:00	M-100	-	-	ISRO-8.016	TERLS-292	-	-	TERLS	-	-	-	92	-	-
1971-Y101	2441030.12	1971 Mar 19 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y102	2441034.67	1971 Mar 24 0400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1971-Y103	2441034.88	1971 Mar 24 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y104	2441035.20	1971 Mar 24 1650:00	M-100	-	-	ISRO-8.017	TERLS-299	-	-	TERLS	-	-	-	89	-	-
1971-Y107	2441037.88	1971 Mar 27 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y108	2441041.61	1971 Mar 31 0236:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y109	2441041.62	1971 Mar 31 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y110	2441041.88	1971 Mar 31 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y113	2441042.19	1971 Mar 31 1630:00	M-100	-	-	ISRO-8.018	TERLS-300	-	-	TERLS	-	-	-	89	-	-
1971-Y116	2441047.06	1971 Apr 05 1327:00	M-100	-	-	ISRO-8.019	TERLS-301	-	-	TERLS	-	-	-	88	-	-
1971-Y117	2441047.08	1971 Apr 05 1402:00	M-100	-	-	ISRO-8.020	TERLS-302	-	-	TERLS	-	-	-	90	-	-
1971-Y118	2441048.59	1971 Apr 07 0209:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1971-Y119	2441048.62	1971 Apr 07 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y120	2441048.88	1971 Apr 07 0905:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y123	2441051.88	1971 Apr 10 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y124	2441055.61	1971 Apr 14 0235:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1971-Y125	2441055.62	1971 Apr 14 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y127	2441062.60	1971 Apr 21 0226:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y128	2441062.88	1971 Apr 21 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y129	2441063.00	1971 Apr 21 1200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y132	2441069.58	1971 Apr 28 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y133	2441069.88	1971 Apr 28 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y135	2441070.17	1971 Apr 28 1603:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1971-Y137	2441074.91	1971 May 03 0948:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y138	2441076.58	1971 May 05 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1971-Y139	2441076.88	1971 May 05 0903:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1971-Y141	2441077.62	1971 May 06 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y142	2441079.88	1971 May 08 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y143	2441083.56	1971 May 12 0130:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y144	2441083.88	1971 May 12 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-W689	2441089.37	1971 May 17 2048:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP1	-	-	78	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-Y148	2441090.58	1971 May 19 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y149	2441090.88	1971 May 19 0914:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y151	2441091.11	1971 May 19 1435:00	M-100	-	-	ISRO-8.21	TERLS-309	-	-	TERLS	-	-	-	90	-	-
1971-Y152	2441091.11	1971 May 19 1445:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1971-Y156	2441092.35	1971 May 20 2022:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP2	-	-	93	-	-
1971-Y157	2441092.42	1971 May 20 2200:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP3	-	-	88	-	-
1971-Y159	2441094.35	1971 May 22 2030:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP4	-	-	88	-	-
1971-Y160	2441096.38	1971 May 24 2100:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	92	-	-
1971-Y161	2441097.90	1971 May 26 0931:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1971-Y162	2441098.10	1971 May 26 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1971-Y163	2441098.11	1971 May 26 1440:00	M-100	-	-	ISRO-8.22	TERLS-310	-	-	TERLS	-	-	-	92	-	-
1971-Y165	2441099.40	1971 May 27 2130:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP5	-	-	85	-	-
1971-Y166	2441099.58	1971 May 28 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y167	2441101.23	1971 May 29 1734:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP6	-	-	92	-	-
1971-Y168	2441104.10	1971 Jun 01 1427:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y169	2441104.91	1971 Jun 02 0956:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y170	2441105.11	1971 Jun 02 1440:00	M-100	-	-	ISRO-8.23	TERLS-311	-	-	TERLS	-	-	-	89	-	-
1971-Y173	2441109.33	1971 Jun 06 1957:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP7	-	-	87	-	-
1971-Y174	2441111.58	1971 Jun 09 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y176	2441112.11	1971 Jun 09 1440:00	M-100	-	-	ISRO-8.24	TERLS-312	-	-	TERLS	-	-	-	85?	-	-
1971-Y178	2441112.30	1971 Jun 09 1905:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP8	-	-	87	-	-
1971-Y179	2441113.33	1971 Jun 10 2000:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP9	-	-	87	-	-
1971-Y180	2441115.29	1971 Jun 12 1859:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP10	-	-	87	-	-
1971-Y181	2441116.29	1971 Jun 13 1859:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP11	-	-	82	-	-
1971-Y182	2441117.29	1971 Jun 14 1853:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP12	-	-	87	-	-
1971-Y183	2441118.88	1971 Jun 16 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y184	2441119.10	1971 Jun 16 1430:00	M-100	-	-	ISRO-8.25	TERLS-318	-	-	TERLS	-	-	-	91	-	-
1971-Y185	2441119.11	1971 Jun 16 1440:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y186	2441119.29	1971 Jun 16 1856:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP13	-	-	90	-	-
1971-Y189	2441126.11	1971 Jun 23 1445:00	M-100	-	-	ISRO-8.26	TERLS-322	-	-	TERLS	-	-	-	91	-	-
1971-Y191	2441127.33	1971 Jun 24 2000:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP14	-	-	89	-	-
1971-Y193	2441129.21	1971 Jun 26 1707:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP15	-	-	89	-	-
1971-Y194	2441131.33	1971 Jun 28 2001:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP16	-	-	88	-	-
1971-Y195	2441131.95	1971 Jun 29 1043:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	92	-	-
1971-Y196	2441132.58	1971 Jun 30 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y197	2441132.88	1971 Jun 30 0901:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y198	2441133.17	1971 Jun 30 1606:00	M-100	-	-	ISRO-8.27	TERLS-323	-	-	TERLS	-	-	-	88	-	-
1971-Y199	2441133.34	1971 Jun 30 2003:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP17	-	-	86	-	-
1971-Y202	2441134.33	1971 Jul 01 2000:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP18	-	-	90	-	-
1971-Y204	2441135.38	1971 Jul 02 2100:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP19	-	-	91	-	-
1971-Y205	2441136.33	1971 Jul 03 2000:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP20	-	-	89	-	-
1971-Y206	2441139.08	1971 Jul 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1971-Y208	2441139.88	1971 Jul 07 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y210	2441140.10	1971 Jul 07 1430:00	M-100	-	-	ISRO-8.28	TERLS-324	-	-	TERLS	-	-	-	94	-	-
1971-Y212	2441141.21	1971 Jul 08 1700:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP21	-	-	91	-	-
1971-Y213	2441142.29	1971 Jul 09 1900:00	M-100	-	-	-	-	-	SHIR	GMS71A	LP22	-	-	90	-	-
1971-Y214	2441146.58	1971 Jul 14 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y215	2441146.88	1971 Jul 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1971-Y218	2441147.11	1971 Jul 14 1434:00	M-100	-	-	ISRO-8.29	TERLS-325	-	-	TERLS	-	-	-	89	-	-
1971-Y219	2441147.12	1971 Jul 14 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1971-Y222	2441153.88	1971 Jul 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y224	2441154.10	1971 Jul 21 1430:00	M-100	-	-	ISRO-8.30	TERLS-326	-	-	TERLS	-	-	-	92	-	-
1971-Y225	2441154.12	1971 Jul 21 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1971-Y227	2441160.88	1971 Jul 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y229	2441161.11	1971 Jul 28 1437:00	M-100	-	-	ISRO-8.31	TERLS-327	-	-	TERLS	-	-	-	91	-	-
1971-Y232	2441167.58	1971 Aug 04 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y233	2441167.88	1971 Aug 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y235	2441168.10	1971 Aug 04 1430:00	M-100	-	-	ISRO-8.32	TERLS-337	-	-	TERLS	-	-	-	91	-	-
1971-Y236	2441168.12	1971 Aug 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1971-Y237	2441168.12	1971 Aug 04 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	91	-	-
1971-Y241	2441174.88	1971 Aug 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y243	2441175.11	1971 Aug 11 1433:00	M-100	-	-	ISRO-8.33	TERLS-338	-	-	TERLS	-	-	-	87	-	-
1971-Y244	2441175.12	1971 Aug 11 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1971-Y245	2441175.12	1971 Aug 11 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1971-Y248	2441175.54	1971 Aug 12 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y249	2441181.58	1971 Aug 18 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y250	2441181.88	1971 Aug 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y251	2441182.10	1971 Aug 18 1430:00	M-100	-	-	ISRO-8.34	TERLS-343	-	-	TERLS	-	-	-	92	-	-
1971-Y252	2441182.12	1971 Aug 18 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1971-Y255	2441188.12	1971 Aug 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1971-Y256	2441188.58	1971 Aug 25 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1971-Y257	2441188.92	1971 Aug 25 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1971-Y259	2441189.10	1971 Aug 25 1430:00	M-100	-	-	ISRO-8.35	TERLS-344	-	-	TERLS	-	-	-	90	-	-
1971-Y261	2441194.58	1971 Aug 31 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y262	2441194.88	1971 Aug 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y263	2441195.58	1971 Sep 01 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y264	2441195.88	1971 Sep 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y266	2441196.10	1971 Sep 01 1430:00	M-100	-	TERLS-345	ISRO-8.36	TERLS-345	-	-	TERLS	-	-	-	90	-	-
1971-Y267	2441196.12	1971 Sep 01 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1971-Y268	2441197.58	1971 Sep 03 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1971-Y269	2441197.88	1971 Sep 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y271	2441203.00	1971 Sep 08 1206:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1971-Y272	2441203.10	1971 Sep 08 1430:00	M-100	-	TERLS-346?	ISRO-8.37	TERLS-346	-	-	TERLS	-	-	-	90	-	-
1971-Y273	2441207.12	1971 Sep 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1971-Y274	2441209.46	1971 Sep 14 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y275	2441209.88	1971 Sep 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-Y277	2441210.09	1971 Sep 15 1405:00	M-100	-	TERLS-347	ISRO-8.38	TERLS-347	-	-	TERLS	-	-	-	91	-	-
1971-Y278	2441210.12	1971 Sep 15 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1971-Y279	2441210.25	1971 Sep 15 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y280	2441210.33	1971 Sep 15 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1971-Y281	2441216.89	1971 Sep 22 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y283	2441217.10	1971 Sep 22 1430:00	M-100	-	-	ISRO-8.39	TERLS-349	-	-	TERLS	-	-	-	90	-	-
1971-Y285	2441217.17	1971 Sep 22 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1971-Y286	2441219.11	1971 Sep 24 1440:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y287	2441223.62	1971 Sep 29 0300:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y288	2441223.88	1971 Sep 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y289	2441224.10	1971 Sep 29 1430:00	M-100	-	-	ISRO-8.40	TERLS-350	-	-	TERLS	-	-	-	88	-	-
1971-Y290	2441226.17	1971 Oct 01 1600:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y291	2441226.65	1971 Oct 02 0330:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y292	2441227.65	1971 Oct 03 0330:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1971-Y293	2441228.15	1971 Oct 03 1530:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1971-Y294	2441228.65	1971 Oct 04 0330:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1971-Y295	2441229.15	1971 Oct 04 1530:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y296	2441229.65	1971 Oct 05 0330:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1971-Y297	2441230.12	1971 Oct 05 1455:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y298	2441230.58	1971 Oct 06 0200:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	91	-	-
1971-Y299	2441230.88	1971 Oct 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y301	2441231.10	1971 Oct 06 1430:00	M-100	-	TERLS-363	ISRO-8.41	TERLS-363	-	-	TERLS	-	-	-	90	-	-
1971-Y302	2441231.11	1971 Oct 06 1445:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	89	-	-
1971-Y303	2441231.12	1971 Oct 06 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1971-Y304	2441231.65	1971 Oct 07 0330:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y305	2441231.73	1971 Oct 07 0535:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y306	2441232.11	1971 Oct 07 1440:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	86	-	-
1971-Y307	2441232.65	1971 Oct 08 0330:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1971-Y308	2441232.65	1971 Oct 08 0340:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	89	-	-
1971-Y309	2441233.12	1971 Oct 08 1500:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y310	2441234.08	1971 Oct 09 1400:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y311	2441237.58	1971 Oct 13 0200:00	M-100	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y312	2441237.88	1971 Oct 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y313	2441238.10	1971 Oct 13 1431:00	M-100	-	-	ISRO-8.42	TERLS-364	-	-	TERLS	-	-	-	87	-	-
1971-Y314	2441238.12	1971 Oct 13 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y316	2441244.58	1971 Oct 20 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y317	2441244.88	1971 Oct 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1971-Y319	2441245.10	1971 Oct 20 1430:00	M-100	-	-	ISRO-8.43	TERLS-371	-	-	TERLS	-	-	-	80	-	-
1971-Y320	2441245.12	1971 Oct 20 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1971-Y321	2441251.58	1971 Oct 27 0150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1971-Y322	2441251.88	1971 Oct 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y323	2441252.12	1971 Oct 27 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	97	-	-
1971-Y324	2441252.18	1971 Oct 27 1620:00	M-100	-	-	ISRO-8.44	TERLS-372	-	-	TERLS	-	-	-	89	-	-
1971-Y326	2441258.58	1971 Nov 03 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1971-Y327	2441258.88	1971 Nov 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1971-Y329	2441259.10	1971 Nov 03 1430:00	M-100	-	-	ISRO-8.45	TERLS-376	-	-	TERLS	-	-	-	90	-	-
1971-W1454	2441259.12	1971 Nov 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	73	-	-
1971-Y332	2441265.58	1971 Nov 10 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y333	2441266.10	1971 Nov 10 1430:00	M-100	-	-	ISRO-8.46	TERLS-383	-	-	TERLS	-	-	-	87	-	-
1971-Y334	2441266.12	1971 Nov 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1971-Y336	2441272.58	1971 Nov 17 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1971-Y337	2441272.88	1971 Nov 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1971-Y339	2441273.10	1971 Nov 17 1430:00	M-100	-	-	ISRO-8.47	TERLS-384	-	-	TERLS	-	-	-	90	-	-
1971-Y340	2441273.10	1971 Nov 17 1430:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	92	-	-
1971-Y341	2441273.12	1971 Nov 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1971-Y344	2441279.88	1971 Nov 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1971-Y345	2441280.10	1971 Nov 24 1430:00	M-100	-	-	ISRO-8.48	TERLS-385	-	-	TERLS	-	-	-	90	-	-
1971-Y346	2441280.12	1971 Nov 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1971-Y347	2441280.58	1971 Nov 25 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y349	2441286.58	1971 Dec 01 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y350	2441286.88	1971 Dec 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1971-Y352	2441287.10	1971 Dec 01 1430:00	M-100	-	-	ISRO-8.49	TERLS-386	-	-	TERLS	-	-	-	90	-	-
1971-Y354	2441287.33	1971 Dec 01 2000:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1971-Y355	2441293.62	1971 Dec 08 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y356	2441293.88	1971 Dec 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1971-Y357	2441294.10	1971 Dec 08 1430:00	M-100	-	TERLS-390	ISRO-8.50	TERLS-390	-	-	TERLS	-	-	-	87	-	-
1971-Y358	2441294.17	1971 Dec 08 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1971-Y359	2441300.25	1971 Dec 14 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1971-Y360	2441300.58	1971 Dec 15 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1971-Y361	2441300.89	1971 Dec 15 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1971-Y363	2441301.12	1971 Dec 15 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1971-Y364	2441301.12	1971 Dec 15 1500:00	M-100	-	TERLS-391	ISRO-8.51	TERLS-391	-	-	TERLS	-	-	-	87	-	-
1971-Y368	2441307.29	1971 Dec 21 1900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1971-Y369	2441307.58	1971 Dec 22 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1971-Y370	2441307.88	1971 Dec 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1971-Y371	2441308.12	1971 Dec 22 1500:00	M-100	-	TERLS-396	ISRO-8.52	TERLS-396	-	-	TERLS	-	-	-	86	-	-
1971-Y372	2441308.12	1971 Dec 22 1500:00	M-100	-	-	-	Spurious	-	-	TERLS	-	-	-	90	-	-
1971-Y373	2441314.38	1971 Dec 28 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1971-Y374	2441314.58	1971 Dec 29 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1971-Y375	2441314.88	1971 Dec 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1971-Y376	2441315.10	1971 Dec 29 1430:00	M-100	-	TERLS-397	ISRO-8.53	TERLS-397	-	-	TERLS	-	-	-	92	-	-
1971-Y377	2441315.12	1971 Dec 29 1500:00	M-100	-	-	-	Spurious	-	-	TERLS	-	-	-	87	-	-
1972-Y01	2441320.04	1972 Jan 03 1300:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP1	-	-	91	-	-
1972-Y02	2441320.96	1972 Jan 04 1100:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP2	-	-	90	-	-
1972-Y03	2441321.58	1972 Jan 05 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y04	2441321.91	1972 Jan 05 0950:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y05	2441322.11	1972 Jan 05 1433:00	M-100	-	TERLS-400	ISRO-8.54	TERLS-400	-	-	TERLS	-	-	-	87	-	-
1972-Y06	2441322.12	1972 Jan 05 1450:00	M-100	-	-	Chaff	-	-	-	MLD	-	-	-	83	-	-
1972-Y07	2441324.88	1972 Jan 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y08	2441325.83	1972 Jan 09 0800:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP3	-	-	90	-	-
1972-Y09	2441327.00	1972 Jan 10 1200:00	M-100	-	-	-	-	-	KORO	GMS72B	LP1	-	-	91	-	-
1972-Y10	2441327.83	1972 Jan 11 0800:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP4	-	-	90	-	-
1972-Y12	2441328.58	1972 Jan 12 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y13	2441328.88	1972 Jan 12 0900:00	M-100	-	-	-	-	-	KORO	GMS72B	LP2	-	-	90	-	-
1972-Y14	2441328.88	1972 Jan 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1972-Y15	2441328.88	1972 Jan 12 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP5	-	-	90	-	-
1972-Y16	2441329.10	1972 Jan 12 1430:00	M-100	-	TERLS-403	ISRO-8.55	TERLS-403	-	-	TERLS	-	-	-	89	-	-
1972-Y17	2441329.12	1972 Jan 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1972-Y18	2441329.12	1972 Jan 12 1500:00	M-100	-	-	-	Spurious?	-	-	TERLS	-	-	-	89	-	-
1972-Y21	2441329.83	1972 Jan 13 0800:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP6	-	-	90	-	-
1972-Y22	2441331.83	1972 Jan 15 0800:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP7	-	-	93	-	-
1972-Y23	2441331.88	1972 Jan 15 0900:00	M-100	-	-	-	-	-	KORO	GMS72B	LP3	-	-	92	-	-
1972-Y24	2441331.88	1972 Jan 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1972-Y26	2441333.12	1972 Jan 16 1500:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP8	-	-	93	-	-
1972-Y27	2441333.92	1972 Jan 17 1000:00	M-100	-	-	-	-	-	KORO	GMS72B	LP4	-	-	90	-	-
1972-Y28	2441334.88	1972 Jan 18 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP9	-	-	90	-	-
1972-W89	2441335.58	1972 Jan 19 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1972-Y29	2441335.92	1972 Jan 19 1000:00	M-100	-	-	-	-	-	KORO	GMS72B	LP5	-	-	91	-	-
1972-Y30	2441336.10	1972 Jan 19 1431:00	M-100	-	TERLS-407	ISRO-8.56	TERLS-407	-	-	TERLS	-	-	-	91	-	-
1972-Y31	2441336.11	1972 Jan 19 1440:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1972-Y32	2441336.92	1972 Jan 20 1000:00	M-100	-	-	-	-	-	KORO	GMS72B	LP6	-	-	94	-	-
1972-Y33	2441337.92	1972 Jan 21 1000:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	91	-	-
1972-Y34	2441338.88	1972 Jan 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y35	2441338.92	1972 Jan 22 1000:00	M-100	-	-	-	-	-	KORO	GMS72B	LP7	-	-	90	-	-
1972-Y37	2441342.58	1972 Jan 26 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1972-Y38	2441343.11	1972 Jan 26 1435:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y39	2441343.12	1972 Jan 26 1500:00	M-100	-	TERLS-408	ISRO-8.57	TERLS-408	-	-	TERLS	-	-	-	89	-	-
1972-Y40	2441343.20	1972 Jan 26 1655:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1972-Y42	2441345.88	1972 Jan 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1972-Y43	2441346.88	1972 Jan 30 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP10	-	-	90	-	-
1972-Y45	2441349.58	1972 Feb 02 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1972-Y46	2441349.88	1972 Feb 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1972-Y47	2441350.10	1972 Feb 02 1430:00	M-100	-	TERLS-411	ISRO-8.58	TERLS-411	-	-	TERLS	-	-	-	91	-	-
1972-Y48	2441350.12	1972 Feb 02 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1972-Y49	2441350.12	1972 Feb 02 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	91	-	-
1972-Y50	2441352.88	1972 Feb 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1972-Y51	2441354.00	1972 Feb 06 1200:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP11	-	-	88	-	-
1972-Y52	2441355.88	1972 Feb 08 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP8	-	-	89	-	-
1972-Y53	2441355.96	1972 Feb 08 1100:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP7	-	-	89	-	-
1972-Y54	2441356.58	1972 Feb 09 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1972-Y55	2441356.88	1972 Feb 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	98	-	-
1972-Y56	2441357.10	1972 Feb 09 1430:00	M-100	-	TERLS-413	ISRO-8.59	TERLS-413	-	-	TERLS	-	-	-	85?	-	-
1972-Y60	2441359.88	1972 Feb 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1972-Y61	2441361.92	1972 Feb 14 1000:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP12	-	-	87	-	-
1972-Y65	2441363.58	1972 Feb 16 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y66	2441363.88	1972 Feb 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1972-Y67	2441363.96	1972 Feb 16 1100:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP13	-	-	89	-	-
1972-Y68	2441364.15	1972 Feb 16 1535:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1972-Y70	2441365.00	1972 Feb 17 1200:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP14	-	-	86	-	-
1972-Y71	2441365.10	1972 Feb 17 1430:00	M-100	-	TERLS-417	ISRO-8.60	TERLS-417	-	-	TERLS	-	-	-	90	-	-
1972-Y72	2441365.12	1972 Feb 17 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1972-Y74	2441365.88	1972 Feb 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1972-Y77	2441366.88	1972 Feb 19 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP15	-	-	91	-	-
1972-Y78	2441368.42	1972 Feb 20 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1972-Y79	2441368.88	1972 Feb 21 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP16	-	-	89	-	-
1972-Y80	2441369.88	1972 Feb 22 0900:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP17	-	-	89	-	-
1972-Y81	2441370.58	1972 Feb 23 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1972-Y82	2441370.88	1972 Feb 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1972-Y83	2441371.10	1972 Feb 23 1430:00	M-100	-	TERLS-418	ISRO-8.61	TERLS-418	-	-	TERLS	-	-	-	88	-	-
1972-Y84	2441371.12	1972 Feb 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1972-Y85	2441371.12	1972 Feb 23 1500:00	M-100	-	-	-	Spurious?	-	-	TERLS	-	-	-	87	-	-
1972-Y88	2441373.88	1972 Feb 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y89	2441377.58	1972 Mar 01 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1972-Y307	2441377.65	1972 Mar 1 0330	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y90	2441377.88	1972 Mar 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y91	2441378.10	1972 Mar 01 1430:00	M-100	-	TERLS-419	ISRO-8.62	TERLS-419	-	-	TERLS	-	-	-	85?	-	-
1972-Y92	2441378.12	1972 Mar 01 1500:00	M-100	-	-	-	Spurious?	-	-	TERLS	-	-	-	90	-	-
1972-Y93	2441384.58	1972 Mar 08 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1972-Y94	2441385.12	1972 Mar 08 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y95	2441385.12	1972 Mar 08 1500:00	M-100	-	-	-	Spurious?	-	-	TERLS	-	-	-	90	-	-
1972-Y96	2441385.19	1972 Mar 08 1630:00	M-100	-	TERLS-421	ISRO-8.63	TERLS-421	-	-	TERLS	-	-	-	91	-	-
1972-Y99	2441391.58	1972 Mar 15 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1972-Y100	2441391.88	1972 Mar 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y101	2441391.96	1972 Mar 15 1100:00	M-100	-	-	-	-	-	KORO	GMS72B	LP8	-	-	93	-	-
1972-Y102	2441392.00	1972 Mar 15 1200:00	M-100	-	-	-	-	-	SHIR	GMS72A	LP18	-	-	90	-	-
1972-Y103	2441392.11	1972 Mar 15 1434:00	M-100	-	TERLS-425	ISRO-8.64	TERLS-425	-	-	TERLS	-	-	-	89	-	-
1972-Y104	2441392.12	1972 Mar 15 1500:00	M-100	-	-	-	Spurious?	-	-	TERLS	-	-	-	91	-	-
1972-Y105	2441394.21	1972 Mar 17 1700:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	91	-	-
1972-Y106	2441394.96	1972 Mar 18 1100:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	90	-	-
1972-Y107	2441396.00	1972 Mar 19 1200:00	M-100	-	-	-	-	-	KORO	GMS72B	LP6	-	-	91	-	-
1972-Y108	2441397.00	1972 Mar 20 1200:00	M-100	-	-	-	-	-	KORO	GMS72B	LP9	-	-	87	-	-
1972-Y109	2441398.04	1972 Mar 21 1300:00	M-100	-	-	-	-	-	KORO	GMS72B	LP10	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y110	2441398.42	1972 Mar 21 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1972-Y111	2441398.88	1972 Mar 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1972-Y112	2441399.10	1972 Mar 22 1430:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	91	-	-
1972-Y113	2441399.10	1972 Mar 22 1430:00	M-100	-	TERLS-427	ISRO-8.65	TERLS-427	-	-	TERLS	-	-	-	92	-	-
1972-Y114	2441399.12	1972 Mar 22 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1972-Y117	2441399.96	1972 Mar 23 1100:00	M-100	-	-	-	-	-	KORO	GMS72B	LP11	-	-	90	-	-
1972-Y118	2441400.96	1972 Mar 24 1100:00	M-100	-	-	-	-	-	KORO	GMS72B	LP12	-	-	90	-	-
1972-Y119	2441402.00	1972 Mar 25 1200:00	M-100	-	-	-	-	-	KORO	GMS72B	LP13	-	-	90	-	-
1972-Y120	2441403.96	1972 Mar 27 1100:00	M-100	-	-	-	-	-	KORO	GMS72B	LP14	-	-	83	-	-
1972-Y121	2441405.58	1972 Mar 29 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1972-Y122	2441405.88	1972 Mar 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1972-Y123	2441406.10	1972 Mar 29 1430:00	M-100	-	TERLS-428	ISRO-8.66	TERLS-428	-	-	TERLS	-	-	-	90	-	-
1972-Y124	2441406.12	1972 Mar 29 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1972-Y125	2441406.12	1972 Mar 29 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1972-Y126	2441413.10	1972 Apr 05 1430:00	M-100	-	TERLS-429	ISRO-8.67	TERLS-429	-	-	TERLS	-	-	-	91	-	-
1972-Y127	2441420.10	1972 Apr 12 1430:00	M-100	-	TERLS-431	ISRO-8.68	TERLS-431	-	-	TERLS	-	-	-	85?	-	-
1972-Y130	2441427.10	1972 Apr 19 1430:00	M-100	-	TERLS-432	ISRO-8.69	TERLS-432	-	-	TERLS	-	-	-	87	-	-
1972-Y133	2441434.10	1972 Apr 26 1430:00	M-100	-	TERLS-433	ISRO-8.70	TERLS-433	-	-	TERLS	-	-	-	85?	-	-
1972-Y308	2441441.08	1972 May 3 1400	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y135	2441441.10	1972 May 03 1430:00	M-100	-	TERLS-434	ISRO-8.71	TERLS-434	-	-	TERLS	-	-	-	92	-	-
1972-Y309	2441444.09	1972 May 6 1410	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y137	2441448.19	1972 May 10 1627:00	M-100	-	TERLS-435	ISRO-8.72	TERLS-435	-	-	TERLS	-	-	-	91	-	-
1972-Y139	2441455.13	1972 May 17 1505:00	M-100	-	TERLS-436	ISRO-8.73	TERLS-436	-	-	TERLS	-	-	-	88	-	-
1972-Y310	2441455.24	1972 May 17 1750	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y142	2441469.11	1972 May 31 1437:00	M-100	-	TERLS-444	ISRO-8.74	TERLS-444	-	-	TERLS	-	-	-	90	-	-
1972-Y144	2441476.10	1972 Jun 07 1430:00	M-100	-	TERLS-445	ISRO-8.75	TERLS-445	-	-	TERLS	-	-	-	90	-	-
1972-Y145	2441483.10	1972 Jun 14 1430:00	M-100	-	TERLS-446	ISRO-8.76	TERLS-446	-	-	TERLS	-	-	-	89	-	-
1972-Y311	2441490.08	1972 Jun 21 1400	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y147	2441490.10	1972 Jun 21 1430:00	M-100	-	TERLS-447	ISRO-8.77	TERLS-447	-	-	TERLS	-	-	-	90	-	-
1972-Y312	2441490.09	1972 Jun 21 1405	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y148	2441497.11	1972 Jun 28 1440:00	M-100	-	TERLS-448	ISRO-8.78	TERLS-448	-	-	TERLS	-	-	-	88	-	-
1972-Y150	2441500.08	1972 Jul 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1972-Y151	2441500.33	1972 Jul 01 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP1	-	-	89	-	-
1972-Y152	2441502.33	1972 Jul 03 2000:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO6540	-	-	88	-	-
1972-Y153	2441503.88	1972 Jul 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1972-Y154	2441504.08	1972 Jul 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1972-Y155	2441504.11	1972 Jul 05 1432:00	M-100	-	TERLS-449	ISRO-8.79	TERLS-449	-	-	TERLS	-	-	-	87	-	-
1972-Y156	2441505.21	1972 Jul 06 1700:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP3	-	-	83	-	-
1972-Y157	2441506.21	1972 Jul 07 1700:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP4	-	-	90	-	-
1972-Y158	2441507.21	1972 Jul 08 1700:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO6540	-	-	83	-	-
1972-Y159	2441508.21	1972 Jul 09 1700:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP5	-	-	84	-	-
1972-Y160	2441509.08	1972 Jul 10 1400:00	M-100	-	-	-	-	-	SHIR	KER	LEC	-	-	91	-	-
1972-Y161	2441511.08	1972 Jul 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y162	2441511.10	1972 Jul 12 1430:00	M-100	-	TERLS-451	ISRO-8.80	TERLS-451	-	-	TERLS	-	-	-	87	-	-
1972-Y164	2441512.08	1972 Jul 13 1400:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP7	-	-	89	-	-
1972-Y165	2441514.12	1972 Jul 15 1500:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOSWR	-	-	89	-	-
1972-Y166	2441515.33	1972 Jul 16 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP9	-	-	90	-	-
1972-Y167	2441517.88	1972 Jul 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1972-Y168	2441518.08	1972 Jul 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1972-Y169	2441518.09	1972 Jul 19 1405:00	M-100	-	TERLS-452	ISRO-8.81	TERLS-452	-	-	TERLS	-	-	-	89	-	-
1972-Y170	2441521.08	1972 Jul 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1972-Y171	2441524.88	1972 Jul 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1972-Y172	2441525.08	1972 Jul 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1972-Y173	2441525.10	1972 Jul 26 1430:00	M-100	-	TERLS-453	ISRO-8.82	TERLS-453	-	-	TERLS	-	-	-	89	-	-
1972-Y176	2441525.33	1972 Jul 26 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP10	-	-	88	-	-
1972-Y178	2441530.33	1972 Jul 31 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP11	-	-	88	-	-
1972-Y179	2441531.33	1972 Aug 01 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP12	-	-	89	-	-
1972-Y180	2441531.88	1972 Aug 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1972-Y181	2441532.08	1972 Aug 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1972-Y182	2441532.11	1972 Aug 02 1444:00	M-100	-	TERLS-454	ISRO-8.83	TERLS-454	-	-	TERLS	-	-	-	88	-	-
1972-Y184	2441532.25	1972 Aug 02 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1972-Y185	2441536.08	1972 Aug 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1972-Y186	2441538.42	1972 Aug 08 2200:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP13	-	-	91	-	-
1972-Y187	2441538.88	1972 Aug 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1972-Y188	2441539.08	1972 Aug 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1972-Y189	2441539.10	1972 Aug 09 1430:00	M-100	-	TERLS-462	ISRO-8.84	TERLS-462	-	-	TERLS	-	-	-	87	-	-
1972-Y190	2441539.33	1972 Aug 09 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP14	-	-	92	-	-
1972-Y191	2441539.58	1972 Aug 10 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1972-Y192	2441542.33	1972 Aug 12 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP15	-	-	88	-	-
1972-Y193	2441543.33	1972 Aug 13 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP13	-	-	88	-	-
1972-Y194	2441544.33	1972 Aug 14 2000:00	M-100	-	-	-	-	-	SHIR	GMS72C	LP16	-	-	91	-	-
1972-Y195	2441545.58	1972 Aug 16 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1972-Y196	2441545.88	1972 Aug 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y197	2441546.08	1972 Aug 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1972-Y198	2441546.10	1972 Aug 16 1430:00	M-100	-	TERLS-464	ISRO-8.85	TERLS-464	-	-	TERLS	-	-	-	88	-	-
1972-Y199	2441550.08	1972 Aug 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1972-Y200	2441552.54	1972 Aug 23 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1972-Y201	2441553.08	1972 Aug 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y203	2441554.10	1972 Aug 24 1430:00	M-100	-	-	ISRO-8.86	TERLS-472	-	-	TERLS	-	-	-	87	-	-
1972-Y204	2441559.54	1972 Aug 30 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1972-Y205	2441560.08	1972 Aug 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1972-Y206	2441560.10	1972 Aug 30 1430:00	M-100	-	TERLS-473	ISRO-8.87	TERLS-473	-	-	TERLS	-	-	-	90	-	-
1972-Y207	2441566.42	1972 Sep 05 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y208	2441566.90	1972 Sep 06 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1972-Y209	2441567.08	1972 Sep 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1972-Y210	2441567.10	1972 Sep 06 1430:00	M-100	-	TERLS-474	ISRO-8.88	TERLS-474	-	-	TERLS	-	-	-	87	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y211	2441568.42	1972 Sep 07 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1972-Y212	2441568.88	1972 Sep 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1972-Y213	2441571.88	1972 Sep 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1972-Y214	2441573.46	1972 Sep 12 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y215	2441573.88	1972 Sep 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1972-Y216	2441574.08	1972 Sep 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1972-Y218	2441574.21	1972 Sep 13 1657:00	M-100	-	TERLS-475	ISRO-8.89	TERLS-475	-	-	TERLS	-	-	-	86	-	-
1972-Y219	2441575.42	1972 Sep 14 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y220	2441578.46	1972 Sep 17 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1972-Y221	2441580.50	1972 Sep 20 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1972-Y222	2441580.58	1972 Sep 20 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1972-Y223	2441580.88	1972 Sep 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y224	2441581.09	1972 Sep 20 1405:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1972-Y225	2441581.11	1972 Sep 20 1435:00	M-100	-	TERLS-484	ISRO-8.90	TERLS-484	-	-	TERLS	-	-	-	86	-	-
1972-Y228	2441587.44	1972 Sep 26 2240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y229	2441587.90	1972 Sep 27 0940:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1972-Y230	2441588.08	1972 Sep 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1972-Y231	2441588.10	1972 Sep 27 1430:00	M-100	-	TERLS-485	ISRO-8.91	TERLS-485	-	-	TERLS	-	-	-	87	-	-
1972-Y232	2441594.42	1972 Oct 03 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y233	2441594.88	1972 Oct 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y234	2441595.10	1972 Oct 04 1430:00	M-100	-	TERLS-486	ISRO-8.92	TERLS-486	-	-	TERLS	-	-	-	89	-	-
1972-Y235	2441595.08	1972 Oct 04 1353:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1972-Y237	2441601.42	1972 Oct 10 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y238	2441601.88	1972 Oct 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1972-Y239	2441602.08	1972 Oct 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1972-Y240	2441602.10	1972 Oct 11 1430:00	M-100	-	TERLS-487	ISRO-8.93	TERLS-487	-	-	TERLS	-	-	-	90	-	-
1972-Y242	2441608.42	1972 Oct 17 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y243	2441608.88	1972 Oct 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1972-Y244	2441609.08	1972 Oct 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y245	2441609.13	1972 Oct 18 1506:00	M-100	-	TERLS-490	ISRO-8.94	TERLS-490	-	-	TERLS	-	-	-	91	-	-
1972-Y249	2441615.38	1972 Oct 24 2110:00	M-100	?	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1972-Y250	2441615.88	1972 Oct 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1972-Y251	2441616.10	1972 Oct 25 1430:00	M-100	-	TERLS-497	ISRO-8.95	TERLS-497	-	-	TERLS	-	-	-	86	-	-
1972-Y252	2441616.12	1972 Oct 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1972-Y253	2441616.21	1972 Oct 25 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1972-Y254	2441623.11	1972 Nov 01 1444:00	M-100	-	TERLS-498	ISRO-8.96	TERLS-498	-	-	TERLS	-	-	-	86	-	-
1972-Y255	2441623.12	1972 Nov 01 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1972-Y258	2441630.89	1972 Nov 09 0916:00	M-100	-	-	Atomic O	-	-	-	OK	-	-	-	91	-	-
1972-Y259	2441631.10	1972 Nov 09 1430:00	M-100	-	TERLS-499	ISRO-8.97	TERLS-499	-	-	TERLS	-	-	-	88	-	-
1972-Y260	2441631.12	1972 Nov 09 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y261	2441636.54	1972 Nov 15 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y262	2441636.89	1972 Nov 15 0926:00	M-100	-	-	Atomic O	-	-	-	OK	-	-	-	91	-	-
1972-Y263	2441637.08	1972 Nov 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1972-Y264	2441637.10	1972 Nov 15 1430:00	M-100	-	TERLS-500	ISRO-8.98	TERLS-500	-	-	TERLS	-	-	-	91	-	-
1972-Y267	2441641.88	1972 Nov 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1972-Y268	2441643.88	1972 Nov 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1972-Y269	2441644.08	1972 Nov 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	98	-	-
1972-Y270	2441644.10	1972 Nov 22 1430:00	M-100	-	TERLS-501	ISRO-8.99	TERLS-501	-	-	TERLS	-	-	-	86	-	-
1972-Y272	2441644.58	1972 Nov 23 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y273	2441648.88	1972 Nov 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1972-Y274	2441650.88	1972 Nov 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1972-Y275	2441651.00	1972 Nov 29 1200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1972-Y276	2441651.08	1972 Nov 29 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1972-Y277	2441651.08	1972 Nov 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1972-Y278	2441651.10	1972 Nov 29 1430:00	M-100	-	TERLS-502	ISRO-8.100	TERLS-502	-	-	TERLS	-	-	-	88	-	-
1972-Y279	2441651.17	1972 Nov 29 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1972-Y281	2441652.83	1972 Dec 01 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1972-Y284	2441657.88	1972 Dec 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1972-Y285	2441658.08	1972 Dec 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y286	2441658.11	1972 Dec 06 1433:00	M-100	-	TERLS-503	ISRO-8.101	TERLS-503	-	-	TERLS	-	-	-	83	-	-
1972-Y287	2441658.17	1972 Dec 06 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1972-Y288	2441664.88	1972 Dec 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1972-Y289	2441665.08	1972 Dec 13 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1972-Y290	2441665.08	1972 Dec 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1972-Y291	2441665.10	1972 Dec 13 1430:00	M-100	-	TERLS-504	ISRO-8.102	TERLS-504	-	-	TERLS	-	-	-	89	-	-
1972-Y292	2441671.58	1972 Dec 20 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1972-Y293	2441672.10	1972 Dec 20 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1972-Y294	2441672.10	1972 Dec 20 1430:00	M-100	-	TERLS-509	ISRO-8.103	TERLS-509	-	-	TERLS	-	-	-	88	-	-
1972-Y296	2441673.62	1972 Dec 22 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1972-Y297	2441677.04	1972 Dec 25 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP1	-	-	92	-	-
1972-Y298	2441678.62	1972 Dec 27 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1972-Y299	2441679.00	1972 Dec 27 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP1	-	-	92	-	-
1972-Y300	2441679.08	1972 Dec 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1972-Y301	2441679.10	1972 Dec 27 1430:00	M-100	-	TERLS-510	ISRO-8.104	TERLS-510	-	-	TERLS	-	-	-	87	-	-
1972-Y304	2441680.00	1972 Dec 28 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP2	-	-	85	-	-
1972-Y305	2441681.00	1972 Dec 29 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP3	-	-	83	-	-
1972-Y306	2441682.00	1972 Dec 30 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP4	-	-	87	-	-
1973-Y13	2441684.04	1973 Jan 01 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP5	-	-	86	-	-
1973-Y14	2441685.04	1973 Jan 02 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP6	-	-	91	-	-
1973-Y16	2441686.10	1973 Jan 03 1430:00	M-100	-	TERLS-511	ISRO-8.105	TERLS-511	-	-	TERLS	-	-	-	89	-	-
1973-Y17	2441686.12	1973 Jan 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y18	2441686.16	1973 Jan 03 1550:00	M-100	-	TERLS-512	ISRO-8.106	TERLS-512	-	-	TERLS	-	-	-	86	-	-
1973-Y19	2441687.04	1973 Jan 04 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP7	-	-	81	-	-
1973-Y20	2441687.21	1973 Jan 04 1700:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP8	-	-	89	-	-
1973-Y21	2441688.12	1973 Jan 05 1500:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP9	-	-	86	-	-
1973-Y22	2441689.08	1973 Jan 06 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y23	2441689.12	1973 Jan 06 1500:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP10	-	-	87	-	-
1973-Y24	2441689.17	1973 Jan 06 1600:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP10	-	-	86	-	-
1973-Y25	2441692.89	1973 Jan 10 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1973-Y26	2441693.10	1973 Jan 10 1430:00	M-100	-	TERLS-517	ISRO-8.107	TERLS-517	-	-	TERLS	-	-	-	84	-	-
1973-Y27	2441693.12	1973 Jan 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-A01	2441694.17	1973 Jan 11 1610:00	M-100	-	TERLS-518	ISRO-8.108	TERLS-518	-	-	TERLS	-	-	-	23	-	-
1973-Y30	2441695.88	1973 Jan 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1973-Y32	2441699.88	1973 Jan 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1973-Y33	2441700.08	1973 Jan 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1973-Y34	2441700.10	1973 Jan 17 1430:00	M-100	-	TERLS-519	ISRO-8.109	TERLS-519	-	-	TERLS	-	-	-	86	-	-
1973-Y37	2441701.59	1973 Jan 19 0210:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y38	2441706.74	1973 Jan 24 0540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1973-Y39	2441706.88	1973 Jan 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1973-Y40	2441707.00	1973 Jan 24 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP8	-	-	89	-	-
1973-Y41	2441707.10	1973 Jan 24 1430:00	M-100	-	TERLS-521	ISRO-8.110	TERLS-521	-	-	TERLS	-	-	-	90	-	-
1973-Y42	2441707.12	1973 Jan 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1973-Y45	2441709.00	1973 Jan 26 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP11	-	-	89	-	-
1973-Y46	2441709.04	1973 Jan 26 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP11	-	-	89	-	-
1973-Y47	2441709.88	1973 Jan 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y48	2441711.00	1973 Jan 28 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP12	-	-	90	-	-
1973-Y49	2441711.08	1973 Jan 28 1400:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP12	-	-	87	-	-
1973-Y50	2441712.62	1973 Jan 30 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y51	2441713.88	1973 Jan 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1973-Y52	2441714.04	1973 Jan 31 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP13	-	-	88	-	-
1973-Y53	2441714.08	1973 Jan 31 1400:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP13	-	-	88	-	-
1973-Y54	2441714.11	1973 Jan 31 1437:00	M-100	-	TERLS-522	ISRO-8.111	TERLS-522	-	-	TERLS	-	-	-	85	-	-
1973-Y55	2441714.12	1973 Jan 31 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1973-Y59	2441715.33	1973 Feb 01 2000:00	M-100	-	-	-	-	-	KORO	GMS73A	LP1	-	-	85	-	-
1973-Y62	2441716.88	1973 Feb 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y63	2441717.12	1973 Feb 03 1500:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP14	-	-	83	-	-
1973-Y64	2441717.33	1973 Feb 03 2000:00	M-100	-	-	-	-	-	KORO	GMS73A	LP2	-	-	88	-	-
1973-Y65	2441718.29	1973 Feb 04 1900:00	M-100	-	-	-	-	-	KORO	GMS73A	LP3	-	-	90	-	-
1973-Y66	2441719.29	1973 Feb 05 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	85	-	-
1973-Y67	2441720.88	1973 Feb 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1973-Y68	2441721.12	1973 Feb 07 1500:00	M-100	-	-	18th Sov Ant.Exp.	-	-	-	MLD	-	-	-	87	-	-
1973-Y71	2441721.33	1973 Feb 07 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCOR	-	-	89	-	-
1973-Y72	2441722.11	1973 Feb 08 1435:00	M-100	-	TERLS-524	ISRO-8.112	TERLS-524	-	-	TERLS	-	-	-	90	-	-
1973-Y74	2441723.88	1973 Feb 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1973-Y75	2441723.92	1973 Feb 10 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y76	2441727.42	1973 Feb 13 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y77	2441727.88	1973 Feb 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y78	2441728.08	1973 Feb 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y82	2441730.88	1973 Feb 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y83	2441734.46	1973 Feb 20 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y84	2441734.90	1973 Feb 21 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1973-Y85	2441735.08	1973 Feb 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y86	2441735.08	1973 Feb 21 1400:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP9	-	-	85	-	-
1973-Y87	2441736.10	1973 Feb 22 1430:00	M-100	-	TERLS-529	ISRO-8.113	TERLS-529	-	-	TERLS	-	-	-	85	-	-
1973-Y88	2441737.12	1973 Feb 23 1500:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP9	-	-	84	-	-
1973-Y90	2441737.33	1973 Feb 23 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	RODR	-	-	88	-	-
1973-Y91	2441737.42	1973 Feb 23 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	RODR	-	-	85	-	-
1973-Y92	2441737.46	1973 Feb 23 2300:00	M-100	-	-	-	-	-	KORO	IOLZ	RODR	-	-	85	-	-
1973-Y93	2441737.88	1973 Feb 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y94	2441740.29	1973 Feb 26 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	85	-	-
1973-Y95	2441740.33	1973 Feb 26 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	86	-	-
1973-Y96	2441740.38	1973 Feb 26 2100:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	87	-	-
1973-Y526	2441740.83	1973 Feb 27 0800	M-100	-	-	Atomic O	-	-	-	GTsP-4	-	-	-	85?	-	-
1973-Y97	2441741.12	1973 Feb 27 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1973-Y98	2441741.12	1973 Feb 27 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	91	-	-
1973-Y99	2441741.54	1973 Feb 28 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y100	2441741.88	1973 Feb 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y101	2441742.00	1973 Feb 28 1200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-A10	2441742.10	1973 Feb 28 1430:00	M-100	-	TERLS-530	ISRO-8.114	TERLS-530	-	-	TERLS	-	-	-	23	-	-
1973-Y103	2441743.12	1973 Mar 01 1450:00	M-100	-	TERLS-531	ISRO-8.115	TERLS-531	-	-	TERLS	-	-	-	88	-	-
1973-Y104	2441743.29	1973 Mar 01 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IO6540	-	-	86	-	-
1973-Y105	2441743.38	1973 Mar 01 2100:00	M-100	-	-	-	-	-	KORO	IOLZ	IO6540	-	-	86	-	-
1973-Y106	2441743.42	1973 Mar 01 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IO6540	-	-	86	-	-
1973-Y108	2441746.25	1973 Mar 04 1800:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	89	-	-
1973-Y109	2441746.33	1973 Mar 04 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	87	-	-
1973-Y110	2441748.00	1973 Mar 06 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP10	-	-	88	-	-
1973-Y111	2441748.42	1973 Mar 06 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1973-Y112	2441748.88	1973 Mar 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y113	2441749.00	1973 Mar 07 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP9	-	-	88	-	-
1973-Y114	2441749.08	1973 Mar 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y115	2441749.10	1973 Mar 07 1430:00	M-100	-	TERLS-534	ISRO-8.116	TERLS-534	-	-	TERLS	-	-	-	87	-	-
1973-Y117	2441749.38	1973 Mar 07 2100:00	M-100	-	-	-	-	-	KORO	GMS73A	LP5	-	-	87	-	-
1973-Y118	2441749.42	1973 Mar 07 2200:00	M-100	-	-	-	-	-	KORO	GMS73A	LP5	-	-	87	-	-
1973-Y119	2441750.12	1973 Mar 08 1500:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP15	-	-	88	-	-
1973-Y120	2441751.04	1973 Mar 09 1300:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP16	-	-	90	-	-
1973-Y121	2441751.12	1973 Mar 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1973-Y123	2441752.08	1973 Mar 10 1400:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP17	-	-	92	-	-
1973-Y124	2441752.33	1973 Mar 10 2000:00	M-100	-	-	-	-	-	KORO	GMS73A	LP6	-	-	89	-	-
1973-Y125	2441753.33	1973 Mar 11 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	89	-	-
1973-Y126	2441754.17	1973 Mar 12 1600:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP18	-	-	86	-	-
1973-Y127	2441754.33	1973 Mar 12 2000:00	M-100	-	-	-	-	-	KORO	GMS73A	LP7	-	-	88	-	-
1973-Y128	2441755.88	1973 Mar 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y129	2441756.00	1973 Mar 14 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP19	-	-	86	-	-
1973-Y130	2441756.08	1973 Mar 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y131	2441756.12	1973 Mar 14 1450:00	M-100	-	TERLS-545	ISRO-8.117	TERLS-545	-	-	TERLS	-	-	-	86	-	-
1973-Y132	2441756.12	1973 Mar 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1973-Y135	2441756.58	1973 Mar 15 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y136	2441757.00	1973 Mar 15 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP20	-	-	89	-	-
1973-Y137	2441761.00	1973 Mar 19 1200:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP21	-	-	88	-	-
1973-Y138	2441761.29	1973 Mar 19 1900:00	M-100	-	-	-	-	-	KORO	GMS73A	LP8	-	-	89	-	-
1973-Y139	2441761.88	1973 Mar 20 0900:00	M-100	-	-	-	-	-	SHIR	GMS72D	LP22	-	-	89	-	-
1973-Y140	2441762.29	1973 Mar 20 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	83	-	-
1973-Y141	2441762.33	1973 Mar 20 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	90	-	-
1973-Y142	2441762.42	1973 Mar 20 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y143	2441762.88	1973 Mar 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1973-Y144	2441763.08	1973 Mar 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y145	2441763.10	1973 Mar 21 1430:00	M-100	-	TERLS-548	ISRO-8.118	TERLS-548	-	-	TERLS	-	-	-	87	-	-
1973-Y146	2441763.12	1973 Mar 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1973-Y148	2441763.29	1973 Mar 21 1900:00	M-100	-	-	-	-	-	KORO	GMS73A	LP3	-	-	90	-	-
1973-Y149	2441764.29	1973 Mar 22 1900:00	M-100	-	-	-	-	-	KORO	GMS73A	LP2	-	-	86	-	-
1973-Y151	2441765.88	1973 Mar 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1973-Y152	2441766.12	1973 Mar 24 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1973-Y153	2441766.29	1973 Mar 24 1900:00	M-100	-	-	-	-	-	KORO	GMS73A	LP1	-	-	86	-	-
1973-Y154	2441769.54	1973 Mar 28 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y155	2441769.88	1973 Mar 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1973-Y156	2441770.08	1973 Mar 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y157	2441770.10	1973 Mar 28 1430:00	M-100	-	TERLS-549	ISRO-8.119	TERLS-549	-	-	TERLS	-	-	-	91	-	-
1973-Y158	2441770.12	1973 Mar 28 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	81	-	-
1973-Y159	2441772.12	1973 Mar 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1973-Y160	2441776.54	1973 Apr 04 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y161	2441776.88	1973 Apr 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1973-Y162	2441777.08	1973 Apr 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y163	2441777.10	1973 Apr 04 1430:00	M-100	-	TERLS-550	ISRO-8.120	TERLS-550	-	-	TERLS	-	-	-	90	-	-
1973-Y165	2441777.21	1973 Apr 04 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1973-Y166	2441778.00	1973 Apr 05 1200:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1973-Y167	2441779.88	1973 Apr 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1973-Y168	2441782.54	1973 Apr 10 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y169	2441784.08	1973 Apr 11 1400:00	M-100	-	TERLS-551	ISRO-8.121	TERLS-551	-	-	TERLS	-	-	-	90	-	-
1973-Y170	2441784.12	1973 Apr 11 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1973-Y174	2441786.12	1973 Apr 13 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1973-Y175	2441790.65	1973 Apr 18 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y176	2441790.88	1973 Apr 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1973-Y177	2441791.08	1973 Apr 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1973-Y178	2441791.10	1973 Apr 18 1430:00	M-100	-	TERLS-553	ISRO-8.122	TERLS-553	-	-	TERLS	-	-	-	84	-	-
1973-Y179	2441791.12	1973 Apr 18 1500:00	M-100	-	-	Atomic 0	-	-	-	KER	-	-	-	83	-	-
1973-Y183	2441793.12	1973 Apr 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	83	-	-
1973-Y184	2441793.88	1973 Apr 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1973-Y185	2441797.58	1973 Apr 25 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y186	2441797.88	1973 Apr 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1973-Y187	2441798.08	1973 Apr 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1973-Y188	2441798.10	1973 Apr 25 1430:00	M-100	-	TERLS-554	ISRO-8.123	TERLS-554	-	-	TERLS	-	-	-	89	-	-
1973-Y189	2441798.12	1973 Apr 25 1456:00	M-100	-	-	Atomic 0	-	-	-	KER	-	-	-	84	-	-
1973-Y191	2441800.12	1973 Apr 27 1458:00	M-100	-	-	Atomic 0	-	-	-	KER	-	-	-	86	-	-
1973-Y193	2441804.90	1973 May 02 0940:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1973-Y194	2441805.10	1973 May 02 1430:00	M-100	-	TERLS-555	ISRO-8.124	TERLS-555	-	-	TERLS	-	-	-	84	-	-
1973-Y195	2441805.12	1973 May 02 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1973-Y196	2441805.58	1973 May 03 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y197	2441810.12	1973 May 07 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1973-Y198	2441811.88	1973 May 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y199	2441812.10	1973 May 09 1430:00	M-100	-	TERLS-556	ISRO-8.125	TERLS-556	-	-	TERLS	-	-	-	88	-	-
1973-Y200	2441812.12	1973 May 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1973-Y201	2441812.58	1973 May 10 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y204	2441817.10	1973 May 14 1430:00	M-100	-	TERLS-557	ISRO-8.126	TERLS-557	-	-	TERLS	-	-	-	86	-	-
1973-Y205	2441819.08	1973 May 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1973-Y206	2441819.10	1973 May 16 1430:00	M-100	-	TERLS-558	ISRO-8.127	TERLS-558	-	-	TERLS	-	-	-	84	-	-
1973-Y208	2441819.42	1973 May 16 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1973-Y209	2441821.10	1973 May 18 1430:00	M-100	-	TERLS-559	ISRO-8.128	TERLS-559	-	-	TERLS	-	-	-	88	-	-
1973-Y211	2441822.17	1973 May 19 1600:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP1	-	-	83	-	-
1973-Y212	2441824.10	1973 May 21 1430:00	M-100	-	TERLS-562	ISRO-8.129	TERLS-562	-	-	TERLS	-	-	-	87	-	-
1973-Y213	2441825.88	1973 May 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y214	2441826.08	1973 May 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1973-Y215	2441826.10	1973 May 23 1430:00	M-100	-	TERLS-566	ISRO-8.130	TERLS-566	-	-	TERLS	-	-	-	89	-	-
1973-Y218	2441828.10	1973 May 25 1430:00	M-100	-	TERLS-567	ISRO-8.131	TERLS-567	-	-	TERLS	-	-	-	90	-	-
1973-Y219	2441828.29	1973 May 25 1900:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP2	-	-	84	-	-
1973-Y220	2441829.08	1973 May 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y221	2441832.33	1973 May 29 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	85	-	-
1973-Y222	2441832.54	1973 May 30 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y223	2441832.88	1973 May 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1973-Y224	2441833.08	1973 May 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1973-Y225	2441833.10	1973 May 30 1430:00	M-100	-	TERLS-568	ISRO-8.132	TERLS-568	-	-	TERLS	-	-	-	86	-	-
1973-Y227	2441835.33	1973 Jun 01 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	87	-	-
1973-Y228	2441838.33	1973 Jun 04 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	86	-	-
1973-Y229	2441839.79	1973 Jun 06 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y230	2441839.88	1973 Jun 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y232	2441840.08	1973 Jun 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1973-Y233	2441840.10	1973 Jun 06 1430:00	M-100	-	TERLS-570	ISRO-8.133	TERLS-570	-	-	TERLS	-	-	-	88	-	-
1973-Y234	2441840.33	1973 Jun 06 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	86	-	-
1973-Y236	2441842.33	1973 Jun 08 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP4	-	-	85	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y239	2441843.08	1973 Jun 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y240	2441845.69	1973 Jun 12 0430:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y241	2441845.75	1973 Jun 12 0600:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y242	2441845.94	1973 Jun 12 1040:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y243	2441846.03	1973 Jun 12 1250:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y244	2441846.28	1973 Jun 12 1850:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y246	2441846.46	1973 Jun 12 2300:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y249	2441847.08	1973 Jun 13 1400:00	M-100	-	Diurnal Variation	-	-	-	-	GTsP-4	-	-	-	86	-	-
1973-Y248	2441847.12	1973 Jun 13 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1973-Y251	2441848.08	1973 Jun 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1973-Y252	2441848.10	1973 Jun 14 1430:00	M-100	-	TERLS-573	ISRO-8.134	TERLS-573	-	-	TERLS	-	-	-	83	-	-
1973-Y254	2441853.58	1973 Jun 20 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y255	2441853.88	1973 Jun 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y256	2441854.08	1973 Jun 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1973-Y257	2441854.10	1973 Jun 20 1430:00	M-100	-	TERLS-574	ISRO-8.135	TERLS-574	-	-	TERLS	-	-	-	88	-	-
1973-Y262	2441857.58	1973 Jun 24 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y263	2441858.33	1973 Jun 24 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	84	-	-
1973-Y264	2441860.54	1973 Jun 27 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y265	2441861.08	1973 Jun 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y266	2441861.10	1973 Jun 27 1430:00	M-100	-	TERLS-577	ISRO-8.136	TERLS-577	-	-	TERLS	-	-	-	88	-	-
1973-Y267	2441861.29	1973 Jun 27 1900:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP5	-	-	85	-	-
1973-Y269	2441864.33	1973 Jun 30 2000:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP5	-	-	84	-	-
1973-Y270	2441865.12	1973 Jul 01 1500:00	M-100	-	-	-	-	-	KORO	GMS73D	LP1	-	-	82	-	-
1973-Y271	2441866.29	1973 Jul 02 1900:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP3	-	-	86	-	-
1973-Y273	2441866.62	1973 Jul 03 0250:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1973-Y274	2441866.79	1973 Jul 03 0700:00	M-100	-	-	-	-	-	KORO	GMS73D	LP2	-	-	82	-	-
1973-Y275	2441867.88	1973 Jul 04 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1973-Y276	2441868.10	1973 Jul 04 1430:00	M-100	-	TERLS-579	ISRO-8.137	TERLS-579	-	-	TERLS	-	-	-	88	-	-
1973-Y277	2441868.29	1973 Jul 04 1900:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP6	-	-	84	-	-
1973-Y278	2441869.96	1973 Jul 06 1100:00	M-100	-	-	-	-	-	KORO	GMS73D	LP3	-	-	92	-	-
1973-Y280	2441871.04	1973 Jul 07 1300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP3	-	-	90	-	-
1973-Y281	2441874.88	1973 Jul 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1973-Y283	2441875.08	1973 Jul 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y284	2441875.10	1973 Jul 11 1430:00	M-100	-	TERLS-580	ISRO-8.138	TERLS-580	-	-	TERLS	-	-	-	89	-	-
1973-Y288	2441878.17	1973 Jul 14 1600:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP7	-	-	89	-	-
1973-Y289	2441879.17	1973 Jul 15 1600:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP8	-	-	85	-	-
1973-Y291	2441881.12	1973 Jul 17 1500:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP9	-	-	89	-	-
1973-Y300	2441881.88	1973 Jul 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1973-Y301	2441882.08	1973 Jul 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1973-Y302	2441882.10	1973 Jul 18 1430:00	M-100	-	TERLS-583	ISRO-8.139	TERLS-583	-	-	TERLS	-	-	-	88	-	-
1973-Y303	2441882.21	1973 Jul 18 1700:00	M-100	-	-	-	-	-	VOKV	GMS73B	LP10	-	-	88	-	-
1973-Y304	2441883.00	1973 Jul 19 1200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP4	-	-	87	-	-
1973-Y307	2441885.08	1973 Jul 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y309	2441889.08	1973 Jul 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1973-Y310	2441889.10	1973 Jul 25 1430:00	M-100	-	TERLS-584	ISRO-8.140	TERLS-584	-	-	TERLS	-	-	-	87	-	-
1973-Y313	2441892.08	1973 Jul 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y314	2441895.60	1973 Aug 01 0230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1973-Y315	2441895.88	1973 Aug 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1973-Y316	2441896.08	1973 Aug 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1973-Y317	2441896.10	1973 Aug 01 1430:00	M-100	-	TERLS-587	ISRO-8.141	TERLS-587	-	-	TERLS	-	-	-	88	-	-
1973-Y323	2441902.88	1973 Aug 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1973-Y324	2441903.08	1973 Aug 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y325	2441903.10	1973 Aug 08 1430:00	M-100	-	TERLS-588	ISRO-8.142	TERLS-588	-	-	TERLS	-	-	-	87	-	-
1973-Y329	2441903.58	1973 Aug 09 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1973-Y330	2441905.71	1973 Aug 11 0500:00	M-100	-	-	-	-	-	KORO	GMS73D	LP5	-	-	86	-	-
1973-Y332	2441909.88	1973 Aug 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1973-Y333	2441910.08	1973 Aug 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1973-Y337	2441911.10	1973 Aug 16 1430:00	M-100	-	TERLS-589	ISRO-8.143	TERLS-589	-	-	TERLS	-	-	-	86	-	-
1973-Y338	2441913.67	1973 Aug 19 0400:00	M-100	-	-	-	-	-	KORO	GMS73D	LP6	-	-	84	-	-
1973-Y339	2441915.62	1973 Aug 21 0300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP7	-	-	85	-	-
1973-Y340	2441916.88	1973 Aug 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1973-Y341	2441917.08	1973 Aug 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y342	2441917.10	1973 Aug 22 1430:00	M-100	-	TERLS-590	ISRO-8.144	TERLS-590	-	-	TERLS	-	-	-	88	-	-
1973-Y343	2441917.62	1973 Aug 23 0300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP8	-	-	89	-	-
1973-Y344	2441918.88	1973 Aug 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y346	2441921.46	1973 Aug 26 2300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP9	-	-	85	-	-
1973-Y347	2441921.52	1973 Aug 27 0030:00	M-100	-	-	-	-	-	KORO	GMS73D	LP9	-	-	84	-	-
1973-Y348	2441922.71	1973 Aug 28 0500:00	M-100	-	-	-	-	-	KORO	GMS73D	LP10	-	-	83	-	-
1973-Y349	2441923.54	1973 Aug 29 0100:00	M-100	-	-	-	-	-	KORO	GMS73D	LP11	-	-	87	-	-
1973-Y350	2441923.58	1973 Aug 29 0200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP11	-	-	81	-	-
1973-Y351	2441923.88	1973 Aug 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y353	2441924.08	1973 Aug 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1973-Y354	2441924.10	1973 Aug 29 1430:00	M-100	-	TERLS-593	ISRO-8.145	TERLS-593	-	-	TERLS	-	-	-	87	-	-
1973-Y356	2441924.54	1973 Aug 30 0100:00	M-100	-	-	-	-	-	KORO	GMS73D	LP12	-	-	86	-	-
1973-Y357	2441925.46	1973 Aug 30 2300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP13	-	-	86	-	-
1973-Y358	2441925.58	1973 Aug 31 0200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP13	-	-	89	-	-
1973-Y359	2441925.73	1973 Aug 31 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1973-Y360	2441925.88	1973 Aug 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y364	2441926.42	1973 Aug 31 2200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP12	-	-	87	-	-
1973-Y365	2441926.50	1973 Sep 01 0000:00	M-100	-	-	-	-	-	KORO	GMS73D	LP14	-	-	84	-	-
1973-Y366	2441927.50	1973 Sep 02 0000:00	M-100	-	-	-	-	-	KORO	GMS73D	LP14	-	-	89	-	-
1973-Y367	2441929.42	1973 Sep 03 2200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP15	-	-	87	-	-
1973-Y368	2441929.46	1973 Sep 03 2300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP15	-	-	84	-	-
1973-Y369	2441930.57	1973 Sep 05 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1973-Y370	2441930.89	1973 Sep 05 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y371	2441931.08	1973 Sep 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y372	2441931.10	1973 Sep 05 1430:00	M-100	-	TERLS-594	ISRO-8.146	TERLS-594	-	-	TERLS	-	-	-	86	-	-
1973-Y375	2441935.42	1973 Sep 09 2200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP8	-	-	87	-	-
1973-Y376	2441935.46	1973 Sep 09 2300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP8	-	-	83	-	-
1973-Y377	2441937.08	1973 Sep 11 1400:00	M-100	-	-	-	-	-	KORO	GMS73D	LP16	-	-	82	-	-
1973-Y378	2441937.90	1973 Sep 12 0940:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y379	2441938.08	1973 Sep 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y380	2441938.10	1973 Sep 12 1430:00	M-100	-	TERLS-595	ISRO-8.147	TERLS-595	-	-	TERLS	-	-	-	84	-	-
1973-Y381	2441939.54	1973 Sep 14 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1973-Y382	2441940.33	1973 Sep 14 2000:00	M-100	-	Pre CIMO	-	-	-	KORO	CSG	MER	-	-	87	-	-
1973-Y383	2441944.21	1973 Sep 18 1700:00	M-100	-	Pre CIMO	-	-	-	KORO	CSG	MER	-	-	84	-	-
1973-Y384	2441944.54	1973 Sep 19 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1973-Y385	2441944.88	1973 Sep 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y386	2441945.08	1973 Sep 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1973-Y387	2441945.10	1973 Sep 19 1430:00	M-100	-	TERLS-596	ISRO-8.148	TERLS-596	-	-	TERLS	-	-	-	85	-	-
1973-W1613	2441946.11	1973 Sep 20 1440	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	77	-	-
1973-Y521	2441946.68	1973 Sep 21 0420	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-W1614	2441947.14	1973 Sep 21 1520	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-W1615	2441947.67	1973 Sep 22 0410	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	68	-	-
1973-W1616	2441950.22	1973 Sep 24 1720	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	79	-	-
1973-W1617	2441950.52	1973 Sep 25 0030	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	78	-	-
1973-Y394	2441951.08	1973 Sep 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1973-W1618	2441951.26	1973 Sep 25 1810	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	77	-	-
1973-W1619	2441951.51	1973 Sep 26 0020	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	78	-	-
1973-Y397	2441951.88	1973 Sep 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1973-Y522	2441952.09	1973 Sep 26 1410	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-Y523	2441953.09	1973 Sep 27 1410	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-Y399	2441953.10	1973 Sep 27 1430:00	M-100	-	TERLS-597	ISRO-8.149	TERLS-597	-	-	TERLS	-	-	-	84	-	-
1973-Y524	2441953.61	1973 Sep 28 0240	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-Y402	2441954.62	1973 Sep 29 0300:00	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	78	-	-
1973-Y525	2441956.65	1973 Oct 1 0340	M-100	-	CIMO	-	-	-	KORO	CSG	MER	-	-	80	-	-
1973-Y404	2441958.54	1973 Oct 03 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1973-Y405	2441959.05	1973 Oct 03 1316:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1973-Y406	2441959.10	1973 Oct 03 1430:00	M-100	-	TERLS-598	ISRO-8.150	TERLS-598	-	-	TERLS	-	-	-	91	-	-
1973-Y407	2441959.12	1973 Oct 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1973-Y419	2441961.88	1973 Oct 06 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP1	-	-	85?	-	-
1973-Y420	2441963.88	1973 Oct 08 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP2	-	-	89	-	-
1973-Y421	2441965.54	1973 Oct 10 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1973-Y422	2441965.88	1973 Oct 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1973-Y423	2441966.10	1973 Oct 10 1430:00	M-100	-	TERLS-599	ISRO-8.151	TERLS-599	-	-	TERLS	-	-	-	89	-	-
1973-Y424	2441966.12	1973 Oct 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y426	2441969.88	1973 Oct 14 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP3	-	-	90	-	-
1973-Y429	2441971.88	1973 Oct 16 0900:00	M-100	-	-	-	-	-	VOKV	ANTIM	-	-	-	88	-	-
1973-Y431	2441972.88	1973 Oct 17 0900:00	M-100	-	-	-	-	-	VOKV	ANTIM	-	-	-	88	-	-
1973-Y432	2441972.88	1973 Oct 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y433	2441973.10	1973 Oct 17 1430:00	M-100	-	TERLS-600	ISRO-8.152	TERLS-600	-	-	TERLS	-	-	-	85	-	-
1973-Y434	2441973.12	1973 Oct 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y437	2441973.88	1973 Oct 18 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP5	-	-	87	-	-
1973-Y440	2441979.04	1973 Oct 23 1300:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y441	2441980.10	1973 Oct 24 1430:00	M-100	-	TERLS-601	ISRO-8.153	TERLS-601	-	-	TERLS	-	-	-	91	-	-
1973-Y443	2441980.12	1973 Oct 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y448	2441986.00	1973 Oct 30 1200:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP6	-	-	88	-	-
1973-Y449	2441987.00	1973 Oct 31 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y450	2441987.10	1973 Oct 31 1430:00	M-100	-	TERLS-602	ISRO-8.154	TERLS-602	-	-	TERLS	-	-	-	86	-	-
1973-Y451	2441987.12	1973 Oct 31 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1973-Y452	2441987.46	1973 Oct 31 2300:00	M-100	-	-	-	-	-	KORO	GMS73D	LP17	-	-	89	-	-
1973-Y454	2441987.54	1973 Nov 01 0100:00	M-100	-	-	-	-	-	KORO	GMS73D	LP18	-	-	89	-	-
1973-Y456	2441988.92	1973 Nov 02 1000:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP7	-	-	84	-	-
1973-Y457	2441993.11	1973 Nov 06 1440:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1973-Y458	2441993.12	1973 Nov 06 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y459	2441994.08	1973 Nov 07 1400:00	M-100	-	-	-	-	-	KORO	GMS73D	LP19	-	-	92	-	-
1973-Y460	2441994.10	1973 Nov 07 1430:00	M-100	-	-	ISRO-8.155	TERLS-603	-	-	TERLS	-	-	-	87	-	-
1973-Y465	2441998.00	1973 Nov 11 1200:00	M-100	-	-	-	-	-	KORO	GMS73D	LP20	-	-	82	-	-
1973-Y466	2441999.88	1973 Nov 13 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP8	-	-	88	-	-
1973-Y467	2442000.88	1973 Nov 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y468	2442001.10	1973 Nov 14 1430:00	M-100	-	-	ISRO-8.156	TERLS-604	-	-	TERLS	-	-	-	85	-	-
1973-Y469	2442001.12	1973 Nov 14 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1973-Y471	2442002.88	1973 Nov 16 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP9	-	-	88	-	-
1973-Y472	2442004.10	1973 Nov 17 1430:00	M-100	-	-	ISRO-8.157	TERLS-605	-	-	TERLS	-	-	-	87	-	-
1973-Y473	2442004.92	1973 Nov 18 1000:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP10	-	-	85?	-	-
1973-Y474	2442007.88	1973 Nov 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1973-Y475	2442008.12	1973 Nov 21 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y476	2442008.14	1973 Nov 21 1515:00	M-100	-	-	ISRO-8.158	TERLS-612	-	-	TERLS	-	-	-	85?	-	-
1973-Y479	2442010.88	1973 Nov 24 0910:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP5	-	-	88	-	-
1973-Y480	2442011.10	1973 Nov 24 1430:00	M-100	-	-	ISRO-8.159	TERLS-614	-	-	TERLS	-	-	-	90	-	-
1973-Y481	2442012.10	1973 Nov 25 1430:00	M-100	-	-	-	-	-	VOKV	ANTIM	-	-	-	90	-	-
1973-Y482	2442013.88	1973 Nov 27 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP11	-	-	87	-	-
1973-Y483	2442014.30	1973 Nov 27 1910:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y484	2442015.11	1973 Nov 28 1438:00	M-100	-	-	ISRO-8.160	TERLS-615	-	-	TERLS	-	-	-	86	-	-
1973-Y485	2442015.12	1973 Nov 28 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y486	2442015.43	1973 Nov 28 2215:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1973-Y488	2442018.10	1973 Dec 01 1430:00	M-100	-	-	ISRO-8.161	TERLS-616	-	-	TERLS	-	-	-	83	-	-
1973-Y489	2442020.56	1973 Dec 04 0120:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y490	2442020.88	1973 Dec 04 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP12	-	-	87	-	-
1973-Y491	2442022.10	1973 Dec 05 1430:00	M-100	-	-	ISRO-8.162	TERLS-617	-	-	TERLS	-	-	-	84	-	-
1973-Y492	2442022.12	1973 Dec 05 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1973-Y493	2442022.88	1973 Dec 06 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP13	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y494	2442023.25	1973 Dec 06 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1973-Y495	2442025.88	1973 Dec 09 0900:00	M-100	-	-	-	-	-	VOKV	GMS73E	LP14	-	-	86	-	-
1973-Y496	2442027.56	1973 Dec 11 0120:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1973-Y497	2442028.26	1973 Dec 11 1820:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1973-Y498	2442029.01	1973 Dec 12 1220:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP1	-	-	87	-	-
1973-Y499	2442029.10	1973 Dec 12 1430:00	M-100	-	-	ISRO-8.163	TERLS-618	-	-	TERLS	-	-	-	85	-	-
1973-Y500	2442029.12	1973 Dec 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1973-Y504	2442032.10	1973 Dec 15 1430:00	M-100	-	-	ISRO-8.164	TERLS-619	-	-	TERLS	-	-	-	87	-	-
1973-Y505	2442034.04	1973 Dec 17 1300:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP2	-	-	82	-	-
1973-Y506	2442034.56	1973 Dec 18 0120:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1973-Y507	2442035.92	1973 Dec 19 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1973-Y508	2442036.04	1973 Dec 19 1300:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP3	-	-	82	-	-
1973-Y509	2442036.10	1973 Dec 19 1430:00	M-100	-	-	ISRO-8.165	TERLS-620	-	-	TERLS	-	-	-	83	-	-
1973-Y510	2442036.12	1973 Dec 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1973-Y512	2442040.04	1973 Dec 23 1300:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP4	-	-	84	-	-
1973-Y513	2442041.04	1973 Dec 24 1300:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP5	-	-	91	-	-
1973-Y514	2442041.56	1973 Dec 25 0130:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1973-Y515	2442042.04	1973 Dec 25 1300:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP6	-	-	89	-	-
1973-Y516	2442042.42	1973 Dec 25 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1973-Y517	2442043.10	1973 Dec 26 1430:00	M-100	-	-	ISRO-8.166	TERLS-621	-	-	TERLS	-	-	-	86	-	-
1973-Y518	2442043.12	1973 Dec 26 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1974-Y01	2442049.88	1974 Jan 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y02	2442050.08	1974 Jan 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y03	2442050.10	1974 Jan 02 1430:00	M-100	-	-	ISRO-8.167	TERLS-622	-	-	TERLS	-	-	-	85	-	-
1974-Y04	2442050.42	1974 Jan 02 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y06	2442052.92	1974 Jan 05 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y07	2442056.42	1974 Jan 08 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1974-Y08	2442056.88	1974 Jan 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y09	2442057.08	1974 Jan 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y10	2442057.10	1974 Jan 09 1430:00	M-100	-	-	ISRO-8.168	TERLS-623	-	-	TERLS	-	-	-	86	-	-
1974-Y13	2442059.88	1974 Jan 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1974-Y14	2442063.42	1974 Jan 15 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1974-Y15	2442063.88	1974 Jan 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1974-Y17	2442064.12	1974 Jan 16 1500:00	M-100	-	-	ISRO-8.169	TERLS-624	-	-	TERLS	-	-	-	86	-	-
1974-Y19	2442064.25	1974 Jan 16 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y22	2442065.88	1974 Jan 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y23	2442066.88	1974 Jan 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y24	2442068.88	1974 Jan 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y25	2442070.88	1974 Jan 23 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y26	2442070.88	1974 Jan 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y27	2442071.10	1974 Jan 23 1430:00	M-100	-	-	ISRO-8.170	TERLS-625	-	-	TERLS	-	-	-	87	-	-
1974-Y28	2442071.12	1974 Jan 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1974-Y31	2442074.08	1974 Jan 26 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1974-Y32	2442074.08	1974 Jan 26 1400:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP7	-	-	85	-	-
1974-Y33	2442075.92	1974 Jan 28 1000:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP1	-	-	95	-	-
1974-Y34	2442077.21	1974 Jan 29 1700:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP8	-	-	81	-	-
1974-Y35	2442077.88	1974 Jan 30 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y36	2442077.88	1974 Jan 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y37	2442078.10	1974 Jan 30 1430:00	M-100	-	-	ISRO-8.171	TERLS-626	-	-	TERLS	-	-	-	82	-	-
1974-Y38	2442078.12	1974 Jan 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y40	2442079.88	1974 Feb 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y41	2442079.96	1974 Feb 01 1100:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP2	-	-	85	-	-
1974-Y42	2442082.21	1974 Feb 03 1700:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP9	-	-	86	-	-
1974-Y43	2442084.42	1974 Feb 05 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y44	2442084.88	1974 Feb 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y45	2442085.10	1974 Feb 06 1430:00	M-100	-	-	ISRO-8.172	TERLS-627	-	-	TERLS	-	-	-	84	-	-
1974-Y46	2442085.25	1974 Feb 06 1800:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP10	-	-	87	-	-
1974-Y47	2442085.88	1974 Feb 07 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP3	-	-	89	-	-
1974-Y49	2442086.88	1974 Feb 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1974-Y50	2442086.88	1974 Feb 08 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP4	-	-	90	-	-
1974-Y51	2442087.88	1974 Feb 09 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP5	-	-	90	-	-
1974-Y52	2442088.29	1974 Feb 09 1900:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP11	-	-	86	-	-
1974-Y53	2442089.88	1974 Feb 11 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP6	-	-	91	-	-
1974-Y54	2442090.12	1974 Feb 11 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y55	2442090.19	1974 Feb 11 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y56	2442090.29	1974 Feb 11 1900:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP12	-	-	88	-	-
1974-Y57	2442091.88	1974 Feb 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y58	2442092.08	1974 Feb 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y59	2442092.08	1974 Feb 13 1400:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP7	-	-	91	-	-
1974-Y60	2442092.10	1974 Feb 13 1430:00	M-100	-	-	ISRO-8.173	TERLS-633	-	-	TERLS	-	-	-	85	-	-
1974-Y61	2442092.29	1974 Feb 13 1900:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP13	-	-	89	-	-
1974-Y62	2442093.29	1974 Feb 14 1900:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP14	-	-	87	-	-
1974-Y63	2442094.00	1974 Feb 15 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y64	2442094.25	1974 Feb 15 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-W216	2442096.29	1974 Feb 17 1900:00	M-100	-	-	-	-	-	KORO	GMS74B	LP1	-	-	79	-	-
1974-Y66	2442097.12	1974 Feb 18 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	81	-	-
1974-Y67	2442097.12	1974 Feb 18 1500:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP7	-	-	90	-	-
1974-Y68	2442098.42	1974 Feb 19 2200:00	M-100	-	-	-	-	-	KORO	GMS74B	LP2	-	-	95	-	-
1974-Y69	2442098.88	1974 Feb 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1974-Y70	2442099.08	1974 Feb 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1974-Y71	2442099.10	1974 Feb 20 1430:00	M-100	-	-	ISRO-8.174	TLERS-634	-	-	TERLS	-	-	-	86	-	-
1974-Y72	2442099.12	1974 Feb 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1974-Y73	2442099.29	1974 Feb 20 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1974-Y74	2442100.88	1974 Feb 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	97	-	-
1974-Y75	2442102.17	1974 Feb 23 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1974-Y76	2442102.88	1974 Feb 24 0900:00	M-100	-	-	-	-	-	SHOK	ANTIM	-	-	-	91	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-Y77	2442105.33	1974 Feb 26 2000:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	85	-	-
1974-Y78	2442105.42	1974 Feb 26 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y79	2442105.92	1974 Feb 27 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y80	2442106.08	1974 Feb 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1974-Y81	2442106.12	1974 Feb 27 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1974-Y82	2442106.17	1974 Feb 27 1600:00	M-100	-	-	ISRO-8.175	TERLS-641	-	-	TERLS	-	-	-	89	-	-
1974-Y85	2442107.21	1974 Feb 28 1700:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP16	-	-	92	-	-
1974-Y86	2442108.25	1974 Mar 01 1800:00	M-100	-	-	-	-	-	SHIR	GMS73F	LP17	-	-	89	-	-
1974-Y88	2442108.88	1974 Mar 02 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP9	-	-	93	-	-
1974-Y89	2442109.12	1974 Mar 02 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1974-Y90	2442111.08	1974 Mar 04 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y91	2442111.29	1974 Mar 04 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y92	2442111.58	1974 Mar 05 0200:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP10	-	-	90	-	-
1974-Y93	2442112.08	1974 Mar 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1974-Y95	2442112.42	1974 Mar 05 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1974-Y96	2442112.58	1974 Mar 06 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y97	2442112.88	1974 Mar 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y98	2442113.12	1974 Mar 06 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y99	2442113.12	1974 Mar 06 1500:00	M-100	-	-	ISRO 8.176	TERLS-646	-	-	TERLS	-	-	-	83	-	-
1974-Y101	2442113.88	1974 Mar 07 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP11	-	-	93	-	-
1974-Y102	2442117.38	1974 Mar 10 2100:00	M-100	-	-	-	-	-	KORO	GMS74B	LP3	-	-	88	-	-
1974-Y103	2442120.12	1974 Mar 13 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1974-Y104	2442120.12	1974 Mar 13 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y105	2442120.12	1974 Mar 13 1500:00	M-100	-	-	ISRO 8.177	TERLS-647	-	-	TERLS	-	-	-	83	-	-
1974-Y106	2442120.15	1974 Mar 13 1530:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1974-Y110	2442121.42	1974 Mar 14 2200:00	M-100	-	-	-	-	-	KORO	GMS74B	LP4	-	-	84	-	-
1974-Y111	2442124.42	1974 Mar 17 2200:00	M-100	-	-	-	-	-	KORO	GMS74B	LP5	-	-	84	-	-
1974-Y112	2442126.83	1974 Mar 20 0800:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP12	-	-	90	-	-
1974-Y113	2442127.12	1974 Mar 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1974-Y114	2442127.12	1974 Mar 20 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1974-Y115	2442127.12	1974 Mar 20 1500:00	M-100	-	-	ISRO 8.178	TERLS-654	-	-	TERLS	-	-	-	86	-	-
1974-Y117	2442127.38	1974 Mar 20 2100:00	M-100	-	-	-	-	-	KORO	GMS74B	LP6	-	-	88	-	-
1974-Y119	2442127.46	1974 Mar 20 2300:00	M-100	-	-	-	-	-	KORO	GMS74B	LP7	-	-	85	-	-
1974-Y120	2442128.88	1974 Mar 22 0900:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP13	-	-	91	-	-
1974-Y122	2442129.12	1974 Mar 22 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1974-Y123	2442130.21	1974 Mar 23 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1974-Y124	2442130.38	1974 Mar 23 2100:00	M-100	-	-	-	-	-	KORO	GMS74B	LP8	-	-	82	-	-
1974-Y125	2442130.38	1974 Mar 23 2100:00	M-100	-	-	-	-	-	KORO	GMS74B	LP8	-	-	86	-	-
1974-Y126	2442130.83	1974 Mar 24 0800:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP14	-	-	88	-	-
1974-Y127	2442131.12	1974 Mar 24 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1974-Y129	2442133.46	1974 Mar 26 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y130	2442133.88	1974 Mar 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y131	2442133.96	1974 Mar 27 1100:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP15	-	-	93	-	-
1974-Y132	2442134.00	1974 Mar 27 1200:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP15	-	-	82	-	-
1974-Y133	2442134.08	1974 Mar 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1974-Y134	2442134.12	1974 Mar 27 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1974-Y135	2442134.12	1974 Mar 27 1500:00	M-100	-	-	ISRO 8.179	TERLS-655	-	-	TERLS	-	-	-	88	-	-
1974-Y137	2442137.92	1974 Mar 31 1000:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP16	-	-	87	-	-
1974-Y138	2442137.92	1974 Mar 31 1000:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP16	-	-	93	-	-
1974-Y139	2442140.42	1974 Apr 02 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y140	2442140.88	1974 Apr 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y141	2442141.12	1974 Apr 03 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1974-Y142	2442141.12	1974 Apr 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y143	2442141.12	1974 Apr 03 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y144	2442141.17	1974 Apr 03 1600:00	M-100	-	-	ISRO 8.180	TERLS-656	-	-	TERLS	-	-	-	87	-	-
1974-Y146	2442142.33	1974 Apr 04 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y147	2442142.50	1974 Apr 05 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y148	2442142.88	1974 Apr 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y149	2442147.33	1974 Apr 09 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y150	2442147.42	1974 Apr 09 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1974-Y151	2442147.50	1974 Apr 10 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y152	2442147.88	1974 Apr 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y153	2442148.12	1974 Apr 10 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1974-Y154	2442148.12	1974 Apr 10 1500:00	M-100	-	-	ISRO 8.181	TERLS-660	-	-	TERLS	-	-	-	88	-	-
1974-Y155	2442148.21	1974 Apr 10 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1974-Y156	2442149.50	1974 Apr 12 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y157	2442149.88	1974 Apr 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1974-Y159	2442154.54	1974 Apr 17 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y160	2442154.88	1974 Apr 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y161	2442155.08	1974 Apr 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y162	2442155.12	1974 Apr 17 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1974-Y163	2442155.10	1974 Apr 17 1430	M-100	-	-	ISRO 8.182	TERLS-661	-	-	TERLS	-	-	-	84	-	-
1974-Y164	2442155.27	1974 Apr 17 1830:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y166	2442157.12	1974 Apr 19 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1974-Y167	2442158.17	1974 Apr 20 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1974-Y168	2442159.12	1974 Apr 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	97	-	-
1974-Y173	2442161.42	1974 Apr 23 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y174	2442161.90	1974 Apr 24 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y175	2442162.12	1974 Apr 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y176	2442162.17	1974 Apr 24 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1974-Y177	2442162.17	1974 Apr 24 1600:00	M-100	-	-	ISRO 8.183	TERLS-662	-	-	TERLS	-	-	-	84	-	-
1974-Y179	2442163.42	1974 Apr 25 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y180	2442168.08	1974 Apr 30 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1974-Y181	2442168.12	1974 Apr 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1974-Y182	2442168.12	1974 Apr 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y183	2442168.25	1974 Apr 30 1800:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-Y184	2442168.42	1974 Apr 30 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y185	2442169.12	1974 May 01 1500:00	M-100	-	-	ISRO 8.184	TERLS-674	-	-	TERLS	-	-	-	86	-	-
1974-Y186	2442172.92	1974 May 05 1000:00	M-100	-	-	-	-	-	SHOK	GMS74A	LP17	-	-	87	-	-
1974-Y187	2442175.44	1974 May 07 2240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y188	2442176.04	1974 May 08 1300:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1974-Y189	2442176.12	1974 May 08 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	99	-	-
1974-Y190	2442176.12	1974 May 08 1500:00	M-100	-	-	ISRO 8.185	TERLS-681	-	-	TERLS	-	-	-	83	-	-
1974-Y191	2442177.04	1974 May 09 1300:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	89	-	-
1974-Y193	2442182.42	1974 May 14 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y194	2442182.82	1974 May 15 0745:00	M-100	-	-	-	-	-	KORO	GMS74B	LP9	-	-	87	-	-
1974-Y195	2442182.89	1974 May 15 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-W664	2442183.12	1974 May 15 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1974-Y197	2442184.12	1974 May 16 1500:00	M-100	-	-	ISRO 8.186	TERLS-684	-	-	TERLS	-	-	-	84	-	-
1974-Y198	2442185.78	1974 May 18 0640:00	M-100	-	-	-	-	-	KORO	GMS74B	LP10	-	-	85	-	-
1974-Y199	2442189.42	1974 May 21 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y200	2442189.78	1974 May 22 0640:00	M-100	-	-	-	-	-	KORO	GMS74B	LP11	-	-	87	-	-
1974-Y201	2442189.88	1974 May 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y202	2442190.12	1974 May 22 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y203	2442190.12	1974 May 22 1500:00	M-100	-	-	ISRO 8.187	TERLS-689	-	-	TERLS	-	-	-	81	-	-
1974-Y205	2442192.71	1974 May 25 0500:00	M-100	-	-	-	-	-	KORO	GMS74B	LP12	-	-	87	-	-
1974-Y206	2442194.67	1974 May 27 0400:00	M-100	-	-	-	-	-	KORO	GMS74B	LP13	-	-	85	-	-
1974-Y208	2442196.42	1974 May 28 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y209	2442196.88	1974 May 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1974-Y210	2442197.12	1974 May 29 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	97	-	-
1974-Y211	2442197.12	1974 May 29 1500:00	M-100	-	-	ISRO 8.188	TERLS-692	-	-	TERLS	-	-	-	86	-	-
1974-Y388	2442198.50	1974 Jun	M-100	-	-	ISRO 8.189	TERLS-693	-	-	TERLS	-	-	-	80?	-	-
1974-Y212	2442203.51	1974 Jun 05 0010:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y213	2442203.88	1974 Jun 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y215	2442210.88	1974 Jun 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y216	2442211.12	1974 Jun 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1974-Y217	2442211.12	1974 Jun 12 1500:00	M-100	-	-	ISRO 8.190	TERLS-694	-	-	TERLS	-	-	-	84	-	-
1974-Y221	2442217.42	1974 Jun 18 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-W803	2442217.88	1974 Jun 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	66	-	-
1974-Y222	2442218.12	1974 Jun 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y223	2442220.12	1974 Jun 21 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1974-S537	2442220.52	1974 Jun 22 0030	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y224	2442224.88	1974 Jun 26 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y225	2442225.12	1974 Jun 26 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1974-Y229	2442231.88	1974 Jul 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1974-Y230	2442232.12	1974 Jul 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y232	2442238.89	1974 Jul 10 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y233	2442239.12	1974 Jul 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1974-Y237	2442245.88	1974 Jul 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y238	2442246.12	1974 Jul 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1974-Y241	2442252.88	1974 Jul 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1974-Y242	2442253.12	1974 Jul 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y245	2442259.88	1974 Jul 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y246	2442260.12	1974 Jul 31 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1974-Y250	2442266.88	1974 Aug 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1974-Y251	2442267.12	1974 Aug 07 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y254	2442273.88	1974 Aug 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y255	2442274.12	1974 Aug 14 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y257	2442274.29	1974 Aug 14 1900:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP1	-	-	90	-	-
1974-Y258	2442276.12	1974 Aug 16 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1974-Y259	2442278.31	1974 Aug 18 1930:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP2	-	-	91	-	-
1974-Y260	2442280.27	1974 Aug 20 1830:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP3	-	-	87	-	-
1974-Y262	2442280.42	1974 Aug 20 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1974-Y263	2442280.99	1974 Aug 21 1140:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y265	2442282.81	1974 Aug 23 0720:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y266	2442283.12	1974 Aug 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1974-Y267	2442283.29	1974 Aug 23 1900:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP4	-	-	85	-	-
1974-Y268	2442284.31	1974 Aug 24 1930:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOCOR	-	-	90	-	-
1974-Y269	2442285.88	1974 Aug 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y270	2442286.07	1974 Aug 26 1340:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y271	2442287.46	1974 Aug 27 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1974-Y272	2442287.88	1974 Aug 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y273	2442288.12	1974 Aug 28 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1974-Y276	2442289.88	1974 Aug 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1974-Y277	2442292.90	1974 Sep 02 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1974-Y278	2442294.31	1974 Sep 03 1930:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP6	-	-	88	-	-
1974-Y279	2442294.42	1974 Sep 03 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y280	2442294.88	1974 Sep 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y281	2442295.08	1974 Sep 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1974-Y284	2442296.32	1974 Sep 05 1940:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP7	-	-	80	-	-
1974-W1155	2442301.32	1974 Sep 10 1940:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP8	-	-	79	-	-
1974-Y286	2442301.42	1974 Sep 10 2200:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y287	2442301.88	1974 Sep 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1974-Y289	2442302.08	1974 Sep 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y291	2442304.33	1974 Sep 13 2000:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	91	-	-
1974-Y292	2442306.25	1974 Sep 15 1800:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP10	-	-	86	-	-
1974-Y293	2442307.29	1974 Sep 16 1900:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	83	-	-
1974-Y294	2442308.89	1974 Sep 18 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y295	2442309.04	1974 Sep 18 1300:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y297	2442310.11	1974 Sep 19 1440:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y298	2442310.38	1974 Sep 19 2100:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	91	-	-
1974-Y299	2442310.52	1974 Sep 20 0030:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-Y300	2442310.63	1974 Sep 20 0310:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y301	2442310.82	1974 Sep 20 0740:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y302	2442311.10	1974 Sep 20 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y303	2442311.21	1974 Sep 20 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1974-Y304	2442311.28	1974 Sep 20 1840:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y305	2442311.29	1974 Sep 20 1900:00	M-100	-	-	-	-	-	SHOK	GMS74C	LP11	-	-	88	-	-
1974-Y306	2442311.69	1974 Sep 21 0440:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	91	-	-
1974-Y307	2442311.90	1974 Sep 21 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y308	2442311.98	1974 Sep 21 1130:00	M-100	-	-	Diurnal Variation	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y309	2442315.42	1974 Sep 24 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y310	2442315.88	1974 Sep 25 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y311	2442316.12	1974 Sep 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y313	2442322.27	1974 Oct 01 1825:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y314	2442322.33	1974 Oct 01 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y315	2442322.47	1974 Oct 01 2320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y316	2442322.88	1974 Oct 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1974-Y317	2442323.12	1974 Oct 02 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-W1288	2442329.32	1974 Oct 08 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1974-W1290	2442329.42	1974 Oct 08 2210:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1974-Y323	2442329.47	1974 Oct 08 2320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y324	2442329.50	1974 Oct 09 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y325	2442329.88	1974 Oct 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1974-Y326	2442330.08	1974 Oct 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1974-Y327	2442331.31	1974 Oct 10 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1974-Y329	2442336.46	1974 Oct 15 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y330	2442337.00	1974 Oct 16 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1974-Y334	2442342.62	1974 Oct 22 0300:00	M-100	-	-	-	-	-	KORO	GMS74D	LP1	-	-	87	-	-
1974-Y335	2442343.42	1974 Oct 22 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y336	2442343.89	1974 Oct 23 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y337	2442344.08	1974 Oct 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1974-Y339	2442347.67	1974 Oct 27 0400:00	M-100	-	-	-	-	-	KORO	GMS74D	LP1	-	-	84	-	-
1974-Y340	2442350.67	1974 Oct 30 0400:00	M-100	-	-	-	-	-	KORO	GMS74D	LP2	-	-	90	-	-
1974-Y341	2442350.88	1974 Oct 30 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1974-Y342	2442351.12	1974 Oct 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1974-Y344	2442351.42	1974 Oct 30 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y345	2442353.79	1974 Nov 02 0700:00	M-100	-	-	-	-	-	KORO	GMS74D	LP3	-	-	81	-	-
1974-Y346	2442356.83	1974 Nov 05 0800:00	M-100	-	-	-	-	-	KORO	GMS74D	LP4	-	-	84	-	-
1974-Y347	2442357.25	1974 Nov 05 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1974-Y348	2442357.42	1974 Nov 05 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y349	2442357.92	1974 Nov 06 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1974-Y350	2442364.88	1974 Nov 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1974-Y351	2442365.08	1974 Nov 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1974-Y353	2442371.33	1974 Nov 19 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y354	2442371.75	1974 Nov 20 0600:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1974-Y355	2442372.12	1974 Nov 20 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1974-Y357	2442377.94	1974 Nov 26 1030:00	M-100	-	-	-	-	-	KORO	GMS74D	LP5	-	-	88	-	-
1974-Y358	2442378.11	1974 Nov 26 1440:00	M-100	-	-	-	-	-	KORO	GMS74D	LP5	-	-	91	-	-
1974-Y359	2442378.89	1974 Nov 27 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	97	-	-
1974-Y361	2442379.38	1974 Nov 27 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y363	2442379.44	1974 Nov 27 2230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1974-Y364	2442381.79	1974 Nov 30 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y365	2442384.17	1974 Dec 02 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1974-Y366	2442385.31	1974 Dec 03 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1974-Y367	2442386.00	1974 Dec 04 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1974-Y368	2442386.12	1974 Dec 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1974-Y371	2442392.54	1974 Dec 11 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y372	2442393.08	1974 Dec 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1974-Y373	2442393.10	1974 Dec 11 1430:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1974-Y375	2442395.88	1974 Dec 14 0910:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1974-Y376	2442399.58	1974 Dec 18 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1974-Y377	2442399.88	1974 Dec 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1974-Y378	2442400.08	1974 Dec 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1974-Y380	2442404.46	1974 Dec 22 2300:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	88	-	-
1974-Y381	2442406.28	1974 Dec 24 1850:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1974-Y382	2442406.50	1974 Dec 25 0000:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP2	-	-	86	-	-
1974-Y383	2442406.57	1974 Dec 25 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1974-Y384	2442407.12	1974 Dec 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1974-Y386	2442409.50	1974 Dec 28 0000:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP3	-	-	91	-	-
1974-Y387	2442413.12	1974 Dec 31 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1975-Y01	2442415.06	1975 Jan 02 1320:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y02	2442415.21	1975 Jan 02 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y05	2442417.06	1975 Jan 04 1320:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y06	2442417.29	1975 Jan 04 1900:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	92	-	-
1975-Y07	2442418.58	1975 Jan 06 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y08	2442418.88	1975 Jan 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y09	2442420.42	1975 Jan 07 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y10	2442421.08	1975 Jan 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1975-Y11	2442421.17	1975 Jan 08 1600:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y13	2442422.42	1975 Jan 09 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1975-Y14	2442422.88	1975 Jan 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1975-Y16	2442423.31	1975 Jan 10 1930:00	M-100	-	-	Indian Ocean?	-	-	SHIR	GMS74E	LP5	-	-	80	-	-
1975-Y17	2442424.31	1975 Jan 11 1930:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP6	-	-	81	-	-
1975-Y18	2442425.33	1975 Jan 12 2000:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP7	-	-	83	-	-
1975-Y19	2442426.37	1975 Jan 13 2050:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	87	-	-
1975-Y20	2442427.33	1975 Jan 14 2000:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP8	-	-	89	-	-
1975-Y21	2442427.88	1975 Jan 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y22	2442427.90	1975 Jan 15 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y23	2442428.12	1975 Jan 15 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1975-Y25	2442428.33	1975 Jan 15 1950:00	M-100	-	-	-	-	-	SHIR	GMS74E	LP9	-	-	85	-	-
1975-Y27	2442429.33	1975 Jan 16 2000:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOCOR	-	-	87	-	-
1975-Y28	2442429.88	1975 Jan 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y31	2442434.89	1975 Jan 22 0920:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1975-Y32	2442435.12	1975 Jan 22 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y35	2442435.47	1975 Jan 22 2310:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y36	2442442.08	1975 Jan 29 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y38	2442442.25	1975 Jan 29 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y39	2442443.90	1975 Jan 31 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-W130	2442447.40	1975 Feb 03 2140:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1975-W134	2442448.42	1975 Feb 04 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1975-Y42	2442449.25	1975 Feb 05 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1975-W147	2442450.98	1975 Feb 07 1130:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1975-Y45	2442455.67	1975 Feb 12 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1975-Y46	2442455.88	1975 Feb 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y47	2442457.88	1975 Feb 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y50	2442462.30	1975 Feb 18 1915:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y51	2442462.36	1975 Feb 18 2035:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y52	2442462.67	1975 Feb 19 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1975-Y53	2442462.88	1975 Feb 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1975-Y54	2442463.12	1975 Feb 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y55	2442465.17	1975 Feb 21 1600:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1975-Y57	2442469.42	1975 Feb 25 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y58	2442469.88	1975 Feb 26 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y59	2442470.12	1975 Feb 26 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y61	2442471.88	1975 Feb 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y63	2442473.17	1975 Mar 01 1600:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP1	-	-	91	-	-
1975-Y64	2442475.17	1975 Mar 03 1600:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP2	-	-	89	-	-
1975-Y65	2442475.22	1975 Mar 03 1720:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP2	-	-	88	-	-
1975-Y66	2442476.42	1975 Mar 04 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y67	2442476.88	1975 Mar 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y68	2442477.33	1975 Mar 05 2000:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1975-Y69	2442478.26	1975 Mar 06 1820:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP3	-	-	83	-	-
1975-Y70	2442479.25	1975 Mar 07 1800:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP4	-	-	86	-	-
1975-Y71	2442479.32	1975 Mar 07 1940:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP4	-	-	89	-	-
1975-Y72	2442481.19	1975 Mar 09 1630:00	M-100	-	-	-	-	-	KORO	GMS75B	LP1	-	-	81	-	-
1975-Y73	2442483.20	1975 Mar 11 1650:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP5	-	-	82	-	-
1975-Y74	2442483.42	1975 Mar 11 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1975-Y75	2442483.97	1975 Mar 12 1120:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y76	2442484.12	1975 Mar 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1975-Y77	2442485.17	1975 Mar 13 1600:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP6	-	-	89	-	-
1975-Y78	2442486.26	1975 Mar 14 1820:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP7	-	-	89	-	-
1975-Y79	2442487.16	1975 Mar 15 1550:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP8	-	-	87	-	-
1975-Y80	2442488.08	1975 Mar 16 1400:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP9	-	-	87	-	-
1975-Y81	2442490.21	1975 Mar 18 1700:00	M-100	-	-	-	-	-	KORO	GMS75B	LP2	-	-	83	-	-
1975-Y82	2442490.28	1975 Mar 18 1840:00	M-100	-	-	-	-	-	KORO	GMS75B	LP2	-	-	81	-	-
1975-Y83	2442490.42	1975 Mar 18 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1975-Y84	2442490.88	1975 Mar 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y85	2442491.12	1975 Mar 19 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1975-Y86	2442491.12	1975 Mar 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1975-Y87	2442491.21	1975 Mar 19 1700:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	88	-	-
1975-Y88	2442492.21	1975 Mar 20 1700:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP11	-	-	87	-	-
1975-Y89	2442494.21	1975 Mar 22 1700:00	M-100	-	-	-	-	-	SHIR	GMS75A	LP12	-	-	89	-	-
1975-Y90	2442497.42	1975 Mar 25 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y91	2442497.96	1975 Mar 26 1105:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y92	2442498.12	1975 Mar 26 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1975-Y93	2442498.12	1975 Mar 26 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1975-Y94	2442504.88	1975 Apr 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y95	2442505.12	1975 Apr 02 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1975-Y96	2442505.12	1975 Apr 02 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y99	2442505.71	1975 Apr 03 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1975-Y100	2442511.42	1975 Apr 08 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1975-Y101	2442511.96	1975 Apr 09 1100:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y102	2442512.12	1975 Apr 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1975-Y103	2442512.12	1975 Apr 09 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y104	2442513.88	1975 Apr 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y106	2442515.12	1975 Apr 12 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1975-Y107	2442515.12	1975 Apr 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y108	2442517.12	1975 Apr 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1975-Y109	2442518.88	1975 Apr 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y110	2442519.12	1975 Apr 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85?	-	-
1975-Y111	2442519.12	1975 Apr 16 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1975-Y113	2442521.02	1975 Apr 18 1230:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y114	2442521.12	1975 Apr 18 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1975-Y115	2442525.57	1975 Apr 23 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y116	2442525.88	1975 Apr 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y117	2442526.12	1975 Apr 23 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1975-Y118	2442526.12	1975 Apr 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y120	2442527.83	1975 Apr 25 0800:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP1	-	-	90	-	-
1975-Y121	2442527.88	1975 Apr 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y122	2442528.12	1975 Apr 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1975-Y123	2442530.54	1975 Apr 28 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y124	2442530.88	1975 Apr 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y125	2442531.12	1975 Apr 28 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y126	2442533.12	1975 Apr 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1975-Y129	2442536.12	1975 May 03 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1975-Y130	2442538.17	1975 May 05 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	94	-	-
1975-Y131	2442539.04	1975 May 06 1300:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP2	-	-	88	-	-
1975-Y132	2442539.58	1975 May 07 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y133	2442539.88	1975 May 07 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y134	2442540.00	1975 May 07 1200:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP3	-	-	87	-	-
1975-Y135	2442540.12	1975 May 07 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1975-Y136	2442540.12	1975 May 07 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y138	2442541.00	1975 May 08 1200:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	95	-	-
1975-Y139	2442541.06	1975 May 08 1330:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	87	-	-
1975-Y140	2442541.33	1975 May 08 2000:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP1	-	-	88	-	-
1975-Y141	2442541.92	1975 May 09 1000:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP4	-	-	89	-	-
1975-Y142	2442542.12	1975 May 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1975-Y144	2442543.83	1975 May 11 0800:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP5	-	-	85?	-	-
1975-Y145	2442546.17	1975 May 13 1600:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP6	-	-	85?	-	-
1975-Y146	2442546.88	1975 May 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1975-Y147	2442547.12	1975 May 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1975-Y148	2442547.12	1975 May 14 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y150	2442547.35	1975 May 14 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y152	2442550.27	1975 May 17 1830:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP2	-	-	81	-	-
1975-W576	2442550.36	1975 May 17 2040:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP2	-	-	79	-	-
1975-Y153	2442552.12	1975 May 19 1500:00	M-100	-	-	ISRO 8.191	TERLS-749	-	-	TERLS	-	-	-	89	-	-
1975-Y154	2442553.42	1975 May 20 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y155	2442553.88	1975 May 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1975-Y156	2442553.92	1975 May 21 1000:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP7	-	-	92	-	-
1975-W590	2442554.12	1975 May 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	66	-	-
1975-Y157	2442554.12	1975 May 21 1500:00	M-100	-	-	ISRO 8.192	TERLS-751	-	-	TERLS	-	-	-	86	-	-
1975-Y158	2442555.17	1975 May 22 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y159	2442556.12	1975 May 23 1500:00	M-100	-	-	ISRO 8.193	TERLS-752	-	-	TERLS	-	-	-	86	-	-
1975-Y163	2442556.94	1975 May 24 1030:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP8	-	-	89	-	-
1975-Y164	2442558.36	1975 May 25 2040:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	86	-	-
1975-Y165	2442559.12	1975 May 26 1500:00	M-100	-	-	ISRO 8.194	TERLS-753	-	-	TERLS	-	-	-	84	-	-
1975-Y166	2442560.58	1975 May 28 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y167	2442560.88	1975 May 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1975-Y168	2442561.11	1975 May 28 1440:00	M-100	-	-	ISRO 8.195	TERLS-755	-	-	TERLS	-	-	-	84	-	-
1975-Y169	2442561.12	1975 May 28 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1975-Y170	2442561.21	1975 May 28 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1975-Y174	2442562.26	1975 May 29 1820:00	M-100	-	-	-	-	-	SHIR	IOLZ	RODR	-	-	87	-	-
1975-Y175	2442563.17	1975 May 30 1600:00	M-100	-	-	ISRO 8.196	TERLS-757	-	-	TERLS	-	-	-	86	-	-
1975-Y176	2442567.46	1975 Jun 03 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y177	2442567.88	1975 Jun 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y178	2442568.12	1975 Jun 04 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1975-Y179	2442568.12	1975 Jun 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1975-Y180	2442568.12	1975 Jun 04 1500:00	M-100	-	-	ISRO 8.197	TERLS-758	-	-	TERLS	-	-	-	88	-	-
1975-Y181	2442570.12	1975 Jun 06 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1975-Y182	2442570.31	1975 Jun 06 1930:00	M-100	-	-	-	-	-	SHIR	IOLZ	RODR	-	-	81	-	-
1975-Y184	2442571.38	1975 Jun 07 2110:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP5	-	-	90	-	-
1975-Y185	2442572.21	1975 Jun 08 1700:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOCOR	-	-	86	-	-
1975-Y186	2442573.83	1975 Jun 10 0800:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	86	-	-
1975-Y187	2442574.46	1975 Jun 10 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y188	2442574.88	1975 Jun 11 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y189	2442575.12	1975 Jun 11 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1975-Y190	2442575.12	1975 Jun 11 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1975-Y191	2442575.12	1975 Jun 11 1500:00	M-100	-	-	ISRO 8.198	TERLS-760	-	-	TERLS	-	-	-	88	-	-
1975-Y192	2442575.27	1975 Jun 11 1830:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP7	-	-	89	-	-
1975-W696	2442576.12	1975 Jun 12 1500:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP9	-	-	78	-	-
1975-Y193	2442576.25	1975 Jun 12 1800:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP8	-	-	90	-	-
1975-Y194	2442577.25	1975 Jun 13 1800:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP9	-	-	87	-	-
1975-Y195	2442578.25	1975 Jun 14 1800:00	M-100	-	-	-	-	-	SHIR	GMS75E	LP10	-	-	83	-	-
1975-Y196	2442581.12	1975 Jun 17 1500:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP10	-	-	88	-	-
1975-Y197	2442581.29	1975 Jun 17 1900:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	86	-	-
1975-Y198	2442581.42	1975 Jun 17 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y199	2442581.49	1975 Jun 17 2340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y200	2442581.81	1975 Jun 18 0730:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1975-Y201	2442581.88	1975 Jun 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y202	2442581.92	1975 Jun 18 1000:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1975-Y203	2442582.12	1975 Jun 18 1500:00	M-100	-	-	ISRO 8.199	TERLS-763	-	-	TERLS	-	-	-	88	-	-
1975-Y204	2442584.17	1975 Jun 20 1600:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP10	-	-	81	-	-
1975-Y207	2442585.12	1975 Jun 21 1500:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	86	-	-
1975-Y208	2442588.25	1975 Jun 24 1800:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP11	-	-	82	-	-
1975-Y209	2442588.92	1975 Jun 25 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y210	2442589.12	1975 Jun 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y211	2442589.12	1975 Jun 25 1500:00	M-100	-	-	ISRO 8.200	TERLS-765	-	-	TERLS	-	-	-	88	-	-
1975-Y213	2442590.17	1975 Jun 26 1600:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP12	-	-	87	-	-
1975-Y214	2442590.21	1975 Jun 26 1700:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP12	-	-	83	-	-
1975-Y215	2442592.15	1975 Jun 28 1540:00	M-100	-	-	-	-	-	SHOK	GMS75C	LP13	-	-	83	-	-
1975-Y216	2442595.88	1975 Jul 02 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1975-Y217	2442596.12	1975 Jul 02 1500:00	M-100	-	-	ISRO 8.201	TERLS-766	-	-	TERLS	-	-	-	87	-	-
1975-Y219	2442597.12	1975 Jul 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	96	-	-
1975-Y220	2442602.88	1975 Jul 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y221	2442603.12	1975 Jul 09 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y222	2442603.12	1975 Jul 09 1500:00	M-100	-	-	ISRO 8.202	TERLS-768	-	-	TERLS	-	-	-	87	-	-
1975-Y226	2442609.88	1975 Jul 16 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y227	2442610.12	1975 Jul 16 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1975-Y228	2442610.12	1975 Jul 16 1500:00	M-100	-	-	ISRO 8.203	TERLS-769	-	-	TERLS	-	-	-	87	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y230	2442616.90	1975 Jul 23 0930:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1975-Y231	2442617.12	1975 Jul 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1975-Y232	2442617.12	1975 Jul 23 1500:00	M-100	-	-	ISRO 8.204	TERLS-770	-	-	TERLS	-	-	-	87	-	-
1975-Y235	2442623.96	1975 Jul 30 1100:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1975-Y236	2442624.12	1975 Jul 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1975-Y237	2442624.12	1975 Jul 30 1500:00	M-100	-	-	ISRO 8.205	TERLS-771	-	-	TERLS	-	-	-	88	-	-
1975-Y239	2442630.46	1975 Aug 05 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y240	2442630.88	1975 Aug 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1975-Y241	2442631.12	1975 Aug 06 1500:00	M-100	-	-	ISRO 8.206	TERLS-772	-	-	TERLS	-	-	-	87	-	-
1975-Y243	2442631.21	1975 Aug 06 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1975-Y245	2442638.00	1975 Aug 13 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y246	2442638.12	1975 Aug 13 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1975-Y247	2442638.12	1975 Aug 13 1500:00	M-100	-	-	ISRO 8.207	TERLS-773	-	-	TERLS	-	-	-	89	-	-
1975-Y249	2442638.31	1975 Aug 13 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y252	2442644.12	1975 Aug 19 1500:00	M-100	-	-	ISRO 8.208	TERLS-774	-	-	TERLS	-	-	-	87	-	-
1975-Y253	2442644.53	1975 Aug 20 0040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1975-Y254	2442644.88	1975 Aug 20 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1975-Y255	2442645.12	1975 Aug 20 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1975-Y258	2442646.88	1975 Aug 22 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1975-Y259	2442651.85	1975 Aug 27 0830:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1975-Y260	2442651.88	1975 Aug 27 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y261	2442652.12	1975 Aug 27 1500:00	M-100	-	-	ISRO 8.209	TERLS-775	-	-	TERLS	-	-	-	84	-	-
1975-Y262	2442653.88	1975 Aug 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1975-Y263	2442657.71	1975 Sep 02 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y265	2442658.83	1975 Sep 03 0800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y266	2442658.88	1975 Sep 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1975-Y267	2442659.12	1975 Sep 03 1500:00	M-100	-	-	ISRO 8.210	TERLS-782	-	-	TERLS	-	-	-	85	-	-
1975-Y268	2442659.22	1975 Sep 03 1710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1975-Y269	2442659.33	1975 Sep 03 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y271	2442665.44	1975 Sep 09 2230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y272	2442665.83	1975 Sep 10 0800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1975-Y273	2442665.88	1975 Sep 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1975-Y274	2442666.12	1975 Sep 10 1500:00	M-100	-	-	ISRO 8.211	TERLS-783	-	-	TERLS	-	-	-	84	-	-
1975-Y275	2442666.67	1975 Sep 11 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1975-Y276	2442667.67	1975 Sep 12 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1975-Y279	2442672.48	1975 Sep 16 2330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y280	2442672.88	1975 Sep 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1975-Y281	2442673.12	1975 Sep 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1975-Y282	2442673.12	1975 Sep 17 1500:00	M-100	-	-	ISRO 8.212	TERLS-786	-	-	TERLS	-	-	-	87	-	-
1975-Y284	2442674.67	1975 Sep 19 0400:00	M-100	-	-	Ozone	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y286	2442677.83	1975 Sep 22 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1975-Y287	2442677.92	1975 Sep 22 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y288	2442679.43	1975 Sep 23 2220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y289	2442679.88	1975 Sep 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y290	2442680.12	1975 Sep 24 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1975-Y291	2442680.12	1975 Sep 24 1500:00	M-100	-	-	ISRO 8.213	TERLS-789	-	-	TERLS	-	-	-	88	-	-
1975-Y292	2442686.30	1975 Sep 30 1910:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1975-Y294	2442686.88	1975 Oct 01 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y295	2442687.12	1975 Oct 01 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1975-Y296	2442687.12	1975 Oct 01 1500:00	M-100	-	-	ISRO 8.214	TERLS-791	-	-	TERLS	-	-	-	83	-	-
1975-Y297	2442687.23	1975 Oct 01 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y300	2442693.88	1975 Oct 08 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y301	2442694.12	1975 Oct 08 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1975-Y302	2442694.12	1975 Oct 08 1500:00	M-100	-	-	ISRO 8.215	TERLS-794	-	-	TERLS	-	-	-	86	-	-
1975-Y303	2442694.31	1975 Oct 08 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y305	2442700.38	1975 Oct 14 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y306	2442700.88	1975 Oct 15 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y307	2442701.12	1975 Oct 15 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1975-Y308	2442701.12	1975 Oct 15 1500:00	M-100	-	-	ISRO 8.216	TERLS-795	-	-	TERLS	-	-	-	85?	-	-
1975-Y310	2442708.01	1975 Oct 22 1220:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y312	2442708.12	1975 Oct 22 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1975-Y313	2442708.12	1975 Oct 22 1500:00	M-100	-	-	ISRO 8.217	TERLS-796	-	-	TERLS	-	-	-	85?	-	-
1975-Y314	2442708.21	1975 Oct 22 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y315	2442714.88	1975 Oct 29 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y316	2442715.12	1975 Oct 29 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y317	2442715.12	1975 Oct 29 1500:00	M-100	-	-	ISRO 8.218	TERLS-797	-	-	TERLS	-	-	-	84	-	-
1975-Y318	2442715.21	1975 Oct 29 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1975-Y320	2442721.40	1975 Nov 04 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y321	2442721.88	1975 Nov 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y322	2442722.12	1975 Nov 05 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y323	2442722.12	1975 Nov 05 1500:00	M-100	-	-	ISRO 8.219	TERLS-798	-	-	TERLS	-	-	-	83	-	-
1975-Y327	2442728.12	1975 Nov 11 1500:00	M-100	-	-	ISRO 8.220	TERLS-800	-	-	TERLS	-	-	-	85	-	-
1975-Y328	2442728.88	1975 Nov 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1975-Y329	2442729.12	1975 Nov 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1975-Y330	2442729.21	1975 Nov 12 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1975-Y333	2442735.31	1975 Nov 18 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y334	2442735.40	1975 Nov 18 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y335	2442735.88	1975 Nov 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1975-Y336	2442736.12	1975 Nov 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1975-Y337	2442736.12	1975 Nov 19 1500:00	M-100	-	-	ISRO 8.221	TERLS-802	-	-	TERLS	-	-	-	91	-	-
1975-Y340	2442738.21	1975 Nov 21 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y341	2442738.29	1975 Nov 21 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y342	2442742.92	1975 Nov 26 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y392	2442743.10	1975 Nov 26 1430:00	M-100	-	-	ISRO 8.222	TERLS-803	-	-	TERLS	-	-	-	84	-	-
1975-Y343	2442743.12	1975 Nov 26 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y344	2442743.21	1975 Nov 26 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y346	2442745.12	1975 Nov 28 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y347	2442746.21	1975 Nov 29 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1975-Y348	2442749.88	1975 Dec 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1975-Y349	2442750.12	1975 Dec 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y350	2442750.12	1975 Dec 03 1500:00	M-100	-	-	ISRO 8.223	TERLS-807	-	-	TERLS	-	-	-	83	-	-
1975-Y351	2442750.33	1975 Dec 03 1950:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1975-Y353	2442752.73	1975 Dec 06 0534	M-100	-	-	ISRO 8.224	TERLS-808	-	-	TERLS	-	-	-	92	-	-
1975-Y354	2442756.88	1975 Dec 10 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1975-Y355	2442757.12	1975 Dec 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1975-Y356	2442757.12	1975 Dec 10 1500:00	M-100	-	-	ISRO 8.225	TERLS-809	-	-	TERLS	-	-	-	90	-	-
1975-Y357	2442757.17	1975 Dec 10 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y359	2442758.20	1975 Dec 11 1650:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y365	2442763.88	1975 Dec 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1975-Y367	2442764.12	1975 Dec 17 1500:00	M-100	-	-	ISRO 8.226	TERLS-810	-	-	TERLS	-	-	-	87	-	-
1975-Y368	2442764.17	1975 Dec 17 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1975-Y369	2442764.42	1975 Dec 17 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1975-Y371	2442764.46	1975 Dec 17 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1975-Y373	2442765.12	1975 Dec 18 1500:00	M-100	-	-	ISRO 8.227	TERLS-811	-	-	TERLS	-	-	-	87	-	-
1975-Y374	2442766.36	1975 Dec 19 2035:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1975-Y375	2442766.42	1975 Dec 19 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1975-Y379	2442770.27	1975 Dec 23 1830:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1975-Y380	2442770.38	1975 Dec 23 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1975-Y381	2442770.88	1975 Dec 24 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1975-Y382	2442771.12	1975 Dec 24 1500:00	M-100	-	-	ISRO 8.228	TERLS-812	-	-	TERLS	-	-	-	84	-	-
1975-Y384	2442771.21	1975 Dec 24 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1975-Y385	2442774.47	1975 Dec 27 2315:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1975-Y386	2442774.90	1975 Dec 28 0935:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1975-Y388	2442777.38	1975 Dec 30 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1975-Y389	2442777.75	1975 Dec 31 0600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1975-Y390	2442777.88	1975 Dec 31 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1975-Y391	2442778.12	1975 Dec 31 1500:00	M-100	-	-	ISRO 8.229	TERLS-813	-	-	TERLS	-	-	-	81	-	-
1976-Y02	2442781.88	1976 Jan 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-W04	2442783.12	1976 Jan 05 1500:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	78	-	-
1976-Y03	2442785.10	1976 Jan 07 1430:00	M-100B	-	-	ISRO-8.230	-	-	-	TERLS	-	-	-	83	-	-
1976-Y04	2442785.12	1976 Jan 07 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1976-Y05	2442785.17	1976 Jan 07 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP2	-	-	82	-	-
1976-Y06	2442785.21	1976 Jan 07 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y08	2442786.88	1976 Jan 09 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y09	2442787.10	1976 Jan 09 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y10	2442787.17	1976 Jan 09 1600:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	92	-	-
1976-Y12	2442788.21	1976 Jan 10 1700:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	87	-	-
1976-Y13	2442789.21	1976 Jan 11 1700:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP4	-	-	92	-	-
1976-Y14	2442789.88	1976 Jan 12 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y15	2442791.88	1976 Jan 14 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y16	2442792.10	1976 Jan 14 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1976-Y17	2442792.10	1976 Jan 14 1430:00	M-100B	-	-	ISRO-8.231	-	-	-	TERLS	-	-	-	88	-	-
1976-Y18	2442792.21	1976 Jan 14 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y19	2442792.33	1976 Jan 14 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y22	2442794.25	1976 Jan 16 1800:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP5	-	-	87	-	-
1976-Y23	2442794.27	1976 Jan 16 1835:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1976-Y24	2442796.25	1976 Jan 18 1800:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP6	-	-	86	-	-
1976-Y25	2442797.17	1976 Jan 19 1600:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO65	-	-	87	-	-
1976-Y26	2442798.88	1976 Jan 21 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1976-Y27	2442799.10	1976 Jan 21 1430:00	M-100B	-	-	ISRO-8.232	-	-	-	TERLS	-	-	-	83	-	-
1976-Y28	2442799.12	1976 Jan 21 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-W98	2442799.21	1976 Jan 21 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1976-Y29	2442800.88	1976 Jan 23 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y30	2442802.17	1976 Jan 24 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP8	-	-	89	-	-
1976-Y31	2442805.88	1976 Jan 28 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y32	2442806.08	1976 Jan 28 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1976-Y33	2442806.10	1976 Jan 28 1430:00	M-100B	-	-	ISRO-8.233	-	-	-	TERLS	-	-	-	85	-	-
1976-Y34	2442806.12	1976 Jan 28 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y35	2442806.19	1976 Jan 28 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y36	2442807.17	1976 Jan 29 1600:00	M-100	-	-	-	-	-	SHIR	IOLZ	RODR	-	-	90	-	-
1976-Y38	2442807.92	1976 Jan 30 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y40	2442809.17	1976 Jan 31 1600:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOSWR	-	-	87	-	-
1976-Y41	2442809.25	1976 Jan 31 1800:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOSWR	-	-	88	-	-
1976-Y42	2442810.21	1976 Feb 01 1700:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP11	-	-	89	-	-
1976-Y43	2442811.17	1976 Feb 02 1600:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO6540	-	-	85	-	-
1976-Y44	2442811.25	1976 Feb 02 1800:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO6540	-	-	91	-	-
1976-Y45	2442812.29	1976 Feb 03 1900:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP13	-	-	87	-	-
1976-Y46	2442812.88	1976 Feb 04 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1976-Y47	2442813.08	1976 Feb 04 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1976-Y48	2442813.10	1976 Feb 04 1430:00	M-100B	-	-	ISRO-8.234	-	-	-	TERLS	-	-	-	84	-	-
1976-Y49	2442813.12	1976 Feb 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1976-Y50	2442813.15	1976 Feb 04 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y52	2442814.38	1976 Feb 05 2100:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP14	-	-	84	-	-
1976-Y53	2442814.44	1976 Feb 05 2230:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP15	-	-	88	-	-
1976-W192	2442814.88	1976 Feb 06 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1976-Y55	2442815.17	1976 Feb 06 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP16	-	-	91	-	-
1976-Y56	2442816.12	1976 Feb 07 1500:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP17	-	-	87	-	-
1976-Y57	2442816.21	1976 Feb 07 1700:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP17	-	-	98	-	-
1976-Y58	2442817.17	1976 Feb 08 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP18	-	-	87	-	-
1976-Y59	2442818.12	1976 Feb 09 1500:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP19	-	-	88	-	-
1976-Y60	2442818.21	1976 Feb 09 1700:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP19	-	-	89	-	-
1976-Y61	2442819.94	1976 Feb 11 1040:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y62	2442820.08	1976 Feb 11 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1976-Y63	2442820.10	1976 Feb 11 1430:00	M-100B	-	-	ISRO-8.235	-	-	-	TERLS	-	-	-	83	-	-
1976-Y64	2442820.12	1976 Feb 11 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1976-Y65	2442820.12	1976 Feb 11 1500:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP20	-	-	89	-	-
1976-Y67	2442821.10	1976 Feb 12 1430:00	M-100B	-	-	ISRO-8.236	-	-	-	TERLS	-	-	-	86	-	-
1976-Y68	2442821.88	1976 Feb 13 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y69	2442822.17	1976 Feb 13 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP21	-	-	90	-	-
1976-Y71	2442823.17	1976 Feb 14 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP22	-	-	89	-	-
1976-Y72	2442824.17	1976 Feb 15 1600:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP23	-	-	89	-	-
1976-Y73	2442825.12	1976 Feb 16 1500:00	M-100	-	-	-	-	-	SHIR	IOLZ	IO70	-	-	89	-	-
1976-Y74	2442825.28	1976 Feb 16 1843:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y75	2442826.88	1976 Feb 18 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1976-Y76	2442827.08	1976 Feb 18 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y77	2442827.10	1976 Feb 18 1430:00	M-100B	-	-	ISRO-8.237	-	-	-	TERLS	-	-	-	91	-	-
1976-W252	2442827.12	1976 Feb 18 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	79	-	-
1976-Y78	2442827.12	1976 Feb 18 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP1	-	-	85	-	-
1976-Y80	2442827.21	1976 Feb 18 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y83	2442828.12	1976 Feb 19 1500:00	M-100	-	-	-	-	-	SHIR	GMS76A	LP24	-	-	91	-	-
1976-Y84	2442828.12	1976 Feb 19 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP2	-	-	82	-	-
1976-Y85	2442828.92	1976 Feb 20 1000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y86	2442829.12	1976 Feb 20 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP3	-	-	83	-	-
1976-Y87	2442830.08	1976 Feb 21 1400:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	91	-	-
1976-Y88	2442830.12	1976 Feb 21 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP4	-	-	89	-	-
1976-Y89	2442831.12	1976 Feb 22 1500:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	88	-	-
1976-Y90	2442831.33	1976 Feb 22 2000:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	89	-	-
1976-Y91	2442833.12	1976 Feb 24 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP5	-	-	80	-	-
1976-Y92	2442833.38	1976 Feb 24 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y93	2442834.08	1976 Feb 25 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y94	2442834.12	1976 Feb 25 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1976-Y95	2442834.12	1976 Feb 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	94	-	-
1976-Y96	2442834.17	1976 Feb 25 1600:00	M-100B	-	-	ISRO-8.238	-	-	-	TERLS	-	-	-	87	-	-
1976-Y99	2442835.38	1976 Feb 26 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y101	2442838.12	1976 Feb 29 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP6	-	-	83	-	-
1976-Y102	2442840.38	1976 Mar 02 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1976-Y103	2442841.10	1976 Mar 03 1430:00	M-100B	-	-	ISRO-8.239	-	-	-	TERLS	-	-	-	84	-	-
1976-Y104	2442841.12	1976 Mar 03 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y105	2442841.12	1976 Mar 03 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1976-Y106	2442841.12	1976 Mar 03 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP7	-	-	83	-	-
1976-Y109	2442842.38	1976 Mar 04 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1976-Y110	2442846.12	1976 Mar 08 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP8	-	-	86	-	-
1976-Y111	2442847.38	1976 Mar 09 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1976-Y112	2442848.08	1976 Mar 10 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1976-Y113	2442848.10	1976 Mar 10 1430:00	M-100B	-	-	ISRO-8.240	-	-	-	TERLS	-	-	-	85	-	-
1976-Y114	2442848.12	1976 Mar 10 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1976-Y115	2442848.12	1976 Mar 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1976-W394	2442849.12	1976 Mar 11 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP9	-	-	76	-	-
1976-Y116	2442849.38	1976 Mar 11 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1976-Y118	2442851.12	1976 Mar 13 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP10	-	-	82	-	-
1976-Y119	2442852.12	1976 Mar 14 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP11	-	-	80	-	-
1976-Y120	2442852.17	1976 Mar 14 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP11	-	-	84	-	-
1976-Y121	2442853.12	1976 Mar 15 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP12	-	-	88	-	-
1976-Y122	2442854.12	1976 Mar 16 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP13	-	-	85	-	-
1976-Y123	2442854.38	1976 Mar 16 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1976-Y124	2442855.08	1976 Mar 17 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-W418	2442855.10	1976 Mar 17 1430:00	M-100B	-	-	ISRO-8.241	-	-	-	TERLS	-	-	-	78	-	-
1976-Y125	2442855.12	1976 Mar 17 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1976-Y126	2442855.12	1976 Mar 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-Y127	2442855.12	1976 Mar 17 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP9	-	-	83	-	-
1976-Y129	2442861.31	1976 Mar 23 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	98	-	-
1976-Y130	2442861.36	1976 Mar 23 2040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1976-Y131	2442861.38	1976 Mar 23 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y132	2442861.47	1976 Mar 23 2320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y133	2442862.12	1976 Mar 24 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1976-Y134	2442862.18	1976 Mar 24 1623:00	M-100B	-	-	ISRO-8.242	-	-	-	TERLS	-	-	-	86	-	-
1976-Y136	2442864.12	1976 Mar 26 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1976-Y138	2442864.17	1976 Mar 26 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP14	-	-	86	-	-
1976-Y140	2442865.38	1976 Mar 27 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-Y141	2442866.17	1976 Mar 28 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP15	-	-	84	-	-
1976-Y142	2442867.12	1976 Mar 29 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1976-Y143	2442868.38	1976 Mar 30 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y144	2442869.11	1976 Mar 31 1435:00	M-100B	-	-	ISRO-8.243	-	-	-	TERLS	-	-	-	90	-	-
1976-Y145	2442869.12	1976 Mar 31 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1976-Y146	2442869.12	1976 Mar 31 1500:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP7	-	-	86	-	-
1976-Y148	2442869.30	1976 Mar 31 1910:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y149	2442869.38	1976 Mar 31 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1976-Y151	2442871.46	1976 Apr 02 2300:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y152	2442872.29	1976 Apr 03 1900:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP6	-	-	86	-	-
1976-Y153	2442875.38	1976 Apr 06 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y154	2442875.38	1976 Apr 06 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-Y155	2442876.10	1976 Apr 07 1430:00	M-100B	-	-	ISRO-8.244	-	-	-	TERLS	-	-	-	88	-	-
1976-Y156	2442876.12	1976 Apr 07 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y157	2442876.12	1976 Apr 07 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1976-Y159	2442877.38	1976 Apr 08 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y160	2442878.21	1976 Apr 09 1700:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP16	-	-	86	-	-
1976-Y161	2442879.12	1976 Apr 10 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y162	2442879.17	1976 Apr 10 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP16	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y163	2442880.17	1976 Apr 11 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP3	-	-	83	-	-
1976-Y164	2442881.12	1976 Apr 12 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y165	2442881.17	1976 Apr 12 1600:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP2	-	-	87	-	-
1976-Y166	2442882.21	1976 Apr 13 1700:00	M-100	-	-	-	-	-	SHOK	GMS76C	LP1	-	-	90	-	-
1976-Y167	2442882.38	1976 Apr 13 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-W555	2442882.48	1976 Apr 13 2330:00	M-100	-	-	-	-	-	-	OK	-	-	-	61	-	-
1976-Y168	2442883.10	1976 Apr 14 1430:00	M-100B	-	-	ISRO-8.245	-	-	-	TERLS	-	-	-	83	-	-
1976-Y169	2442883.12	1976 Apr 14 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y170	2442883.12	1976 Apr 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y173	2442884.38	1976 Apr 15 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y174	2442885.12	1976 Apr 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85?	-	-
1976-Y176	2442889.38	1976 Apr 20 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1976-Y177	2442889.38	1976 Apr 20 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1976-Y178	2442890.10	1976 Apr 21 1430:00	M-100B	-	-	ISRO-8.246	-	-	-	TERLS	-	-	-	88	-	-
1976-Y179	2442890.12	1976 Apr 21 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1976-Y180	2442890.12	1976 Apr 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1976-Y181	2442890.22	1976 Apr 21 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1976-Y184	2442891.38	1976 Apr 22 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y187	2442896.38	1976 Apr 27 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1976-Y188	2442896.38	1976 Apr 27 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y189	2442897.10	1976 Apr 28 1430:00	M-100B	-	-	ISRO-8.247	-	-	-	TERLS	-	-	-	87	-	-
1976-Y191	2442897.12	1976 Apr 28 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y193	2442897.38	1976 Apr 28 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y194	2442897.97	1976 Apr 29 1120:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y196	2442903.38	1976 May 04 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y197	2442903.38	1976 May 04 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y198	2442904.10	1976 May 05 1430:00	M-100B	-	-	ISRO-8.248	-	-	-	TERLS	-	-	-	85	-	-
1976-Y199	2442904.12	1976 May 05 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y200	2442904.12	1976 May 05 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y203	2442905.38	1976 May 06 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y204	2442910.38	1976 May 11 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-Y205	2442910.38	1976 May 11 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y206	2442911.10	1976 May 12 1430:00	M-100B	-	-	ISRO-8.249	-	-	-	TERLS	-	-	-	88	-	-
1976-Y207	2442911.12	1976 May 12 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y208	2442911.12	1976 May 12 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y210	2442917.38	1976 May 18 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-W749	2442917.38	1976 May 18 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1976-Y211	2442917.88	1976 May 19 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1976-W753	2442918.10	1976 May 19 1430:00	M-100B	-	-	ISRO-8.250	-	-	-	TERLS	-	-	-	75	-	-
1976-Y212	2442918.12	1976 May 19 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y213	2442918.17	1976 May 19 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y214	2442918.21	1976 May 19 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1976-Y217	2442920.11	1976 May 21 1435:00	M-100B	-	-	ISRO-8.251	-	-	-	TERLS	-	-	-	86	-	-
1976-Y218	2442920.15	1976 May 21 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y219	2442920.21	1976 May 21 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y221	2442923.10	1976 May 24 1430:00	M-100B	-	-	ISRO-8.252	-	-	-	TERLS	-	-	-	84	-	-
1976-Y223	2442924.38	1976 May 25 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1976-Y224	2442924.38	1976 May 25 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y225	2442924.40	1976 May 25 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1976-Y226	2442924.55	1976 May 26 0110:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y227	2442925.10	1976 May 26 1430:00	M-100B	-	-	ISRO-8.253	-	-	-	TERLS	-	-	-	86	-	-
1976-Y230	2442927.11	1976 May 28 1433:00	M-100B	-	-	ISRO-8.254	-	-	-	TERLS	-	-	-	83	-	-
1976-Y233	2442930.10	1976 May 31 1430:00	M-100B	-	-	ISRO-8.255	-	-	-	TERLS	-	-	-	83	-	-
1976-Y234	2442931.38	1976 Jun 01 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y235	2442931.38	1976 Jun 01 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y236	2442932.11	1976 Jun 02 1438:00	M-100B	-	-	ISRO-8.256	-	-	-	TERLS	-	-	-	85	-	-
1976-Y237	2442932.12	1976 Jun 02 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1976-Y240	2442938.38	1976 Jun 08 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-W851	2442938.38	1976 Jun 08 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	53	-	-
1976-Y241	2442939.13	1976 Jun 09 1512:00	M-100B	-	-	ISRO-8.257	-	-	-	TERLS	-	-	-	85	-	-
1976-Y242	2442939.40	1976 Jun 09 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1976-Y245	2442945.38	1976 Jun 15 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1976-Y246	2442945.38	1976 Jun 15 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-W877	2442946.10	1976 Jun 16 1430:00	M-100B	-	-	ISRO-8.258	-	-	-	TERLS	-	-	-	56	-	-
1976-W879	2442946.12	1976 Jun 16 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1976-Y250	2442952.25	1976 Jun 22 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP1	-	-	90	-	-
1976-Y251	2442952.38	1976 Jun 22 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y252	2442952.88	1976 Jun 23 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-W902	2442953.11	1976 Jun 23 1435:00	M-100B	-	-	ISRO-8.259	-	-	-	TERLS	-	-	-	79	-	-
1976-Y253	2442953.17	1976 Jun 23 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP2	-	-	86	-	-
1976-Y256	2442955.25	1976 Jun 25 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP3	-	-	86	-	-
1976-Y257	2442955.38	1976 Jun 25 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1976-Y258	2442956.25	1976 Jun 26 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP4	-	-	89	-	-
1976-Y259	2442958.21	1976 Jun 28 1700:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO70	-	-	89	-	-
1976-Y261	2442959.38	1976 Jun 29 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y262	2442959.42	1976 Jun 29 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1976-Y263	2442960.11	1976 Jun 30 1434:00	M-100B	-	-	ISRO-8.260	-	-	-	TERLS	-	-	-	85	-	-
1976-Y265	2442960.25	1976 Jun 30 1800:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	89	-	-
1976-Y266	2442961.21	1976 Jul 01 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP6	-	-	89	-	-
1976-Y268	2442962.38	1976 Jul 02 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y269	2442966.38	1976 Jul 06 2106:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y270	2442966.38	1976 Jul 06 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1976-Y271	2442967.12	1976 Jul 07 1500:00	M-100B	-	-	ISRO-8.261	-	-	-	TERLS	-	-	-	86	-	-
1976-Y275	2442967.43	1976 Jul 07 2220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1976-Y276	2442967.56	1976 Jul 08 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y277	2442967.62	1976 Jul 08 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y278	2442969.38	1976 Jul 09 2106:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1976-Y279	2442973.38	1976 Jul 13 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1976-Y280	2442973.38	1976 Jul 13 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y281	2442974.12	1976 Jul 14 1450:00	M-100B	-	-	ISRO-8.262	-	-	-	TERLS	-	-	-	85	-	-
1976-Y283	2442974.25	1976 Jul 14 1800:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	82	-	-
1976-Y286	2442976.46	1976 Jul 16 2300:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y288	2442977.21	1976 Jul 17 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP7	-	-	89	-	-
1976-Y289	2442979.21	1976 Jul 19 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP8	-	-	92	-	-
1976-Y292	2442980.17	1976 Jul 20 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP9	-	-	85	-	-
1976-Y293	2442980.25	1976 Jul 20 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP9	-	-	82	-	-
1976-Y294	2442980.38	1976 Jul 20 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	95	-	-
1976-Y295	2442980.38	1976 Jul 20 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y296	2442981.11	1976 Jul 21 1445:00	M-100B	-	-	ISRO-8.263	-	-	-	TERLS	-	-	-	85	-	-
1976-Y297	2442981.21	1976 Jul 21 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP10	-	-	85	-	-
1976-Y300	2442983.12	1976 Jul 23 1500:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP11	-	-	86	-	-
1976-Y301	2442983.38	1976 Jul 23 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1976-Y302	2442986.17	1976 Jul 26 1600:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	86	-	-
1976-Y304	2442987.38	1976 Jul 27 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-W1030	2442987.42	1976 Jul 27 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	72	-	-
1976-Y305	2442988.10	1976 Jul 28 1430:00	M-100B	-	-	ISRO-8.264	-	-	-	TERLS	-	-	-	83	-	-
1976-Y306	2442988.12	1976 Jul 28 1455:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y308	2442988.30	1976 Jul 28 1910:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y309	2442988.38	1976 Jul 28 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y310	2442988.51	1976 Jul 29 0020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y311	2442988.63	1976 Jul 29 0305:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y312	2442988.76	1976 Jul 29 0615:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y313	2442988.88	1976 Jul 29 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y314	2442988.99	1976 Jul 29 1145:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y315	2442989.15	1976 Jul 29 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y316	2442989.17	1976 Jul 29 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP13	-	-	83	-	-
1976-Y317	2442989.24	1976 Jul 29 1740:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y318	2442989.38	1976 Jul 29 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y320	2442989.51	1976 Jul 30 0020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1976-Y321	2442989.61	1976 Jul 30 0240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y322	2442989.88	1976 Jul 30 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1976-Y323	2442989.99	1976 Jul 30 1150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y324	2442990.12	1976 Jul 30 1459:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y325	2442990.18	1976 Jul 30 1615:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y326	2442990.21	1976 Jul 30 1706:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y327	2442990.38	1976 Jul 30 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1976-W1061	2442991.17	1976 Jul 31 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP8	-	-	76	-	-
1976-Y328	2442992.17	1976 Aug 01 1600:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	85	-	-
1976-Y329	2442992.21	1976 Aug 01 1700:00	M-100	-	-	-	-	-	SHOK	KER	LEC	-	-	86	-	-
1976-Y330	2442994.25	1976 Aug 03 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP13	-	-	82	-	-
1976-Y331	2442994.38	1976 Aug 03 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-Y332	2442994.42	1976 Aug 03 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y333	2442995.11	1976 Aug 04 1433:00	M-100B	-	-	ISRO-8.265	-	-	-	TERLS	-	-	-	84	-	-
1976-Y334	2442995.12	1976 Aug 04 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y339	2442996.17	1976 Aug 05 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP11	-	-	87	-	-
1976-Y341	2442997.17	1976 Aug 06 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP14	-	-	86	-	-
1976-Y342	2442997.38	1976 Aug 06 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1976-Y343	2442999.17	1976 Aug 08 1600:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	86	-	-
1976-Y344	2442999.21	1976 Aug 08 1700:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	86	-	-
1976-Y345	2443001.38	1976 Aug 10 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1976-Y346	2443001.38	1976 Aug 10 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y347	2443002.10	1976 Aug 11 1430:00	M-100B	-	-	ISRO-8.266	-	-	-	TERLS	-	-	-	85	-	-
1976-Y349	2443002.21	1976 Aug 11 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y351	2443004.38	1976 Aug 13 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1976-Y352	2443008.38	1976 Aug 17 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1976-Y353	2443008.38	1976 Aug 17 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-Y354	2443009.10	1976 Aug 18 1427:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y355	2443009.10	1976 Aug 18 1430:00	M-100B	-	-	ISRO-8.267	-	-	-	TERLS	-	-	-	85	-	-
1976-Y357	2443009.25	1976 Aug 18 1805:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1976-Y358	2443009.35	1976 Aug 18 2030:00	M-100B	-	-	ISRO-8.268	-	-	-	TERLS	-	-	-	83	-	-
1976-Y359	2443009.38	1976 Aug 18 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y360	2443009.47	1976 Aug 18 2315:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1976-Y361	2443009.58	1976 Aug 19 0148:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1976-Y362	2443009.60	1976 Aug 19 0230:00	M-100B	-	-	ISRO-8.269	-	-	-	TERLS	-	-	-	84	-	-
1976-Y363	2443009.76	1976 Aug 19 0610:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1976-Y364	2443009.87	1976 Aug 19 0847:00	M-100B	-	-	ISRO-8.270	-	-	-	TERLS	-	-	-	83	-	-
1976-Y365	2443009.88	1976 Aug 19 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1976-Y366	2443009.99	1976 Aug 19 1146:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y367	2443010.08	1976 Aug 19 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-W1161	2443010.10	1976 Aug 19 1430:00	M-100B	-	-	ISRO-8.271	-	-	-	TERLS	-	-	-	68	-	-
1976-Y368	2443010.16	1976 Aug 19 1548:00	M-100B	-	-	ISRO-8.272	-	-	-	TERLS	-	-	-	85	-	-
1976-Y369	2443010.20	1976 Aug 19 1650:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP15	-	-	85?	-	-
1976-Y370	2443010.23	1976 Aug 19 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y371	2443010.35	1976 Aug 19 2030:00	M-100B	-	-	ISRO-8.273	-	-	-	TERLS	-	-	-	84	-	-
1976-Y372	2443010.38	1976 Aug 19 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y373	2443010.42	1976 Aug 19 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1976-Y374	2443010.47	1976 Aug 19 2315:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y375	2443010.60	1976 Aug 20 0230:00	M-100B	-	-	ISRO-8.274	-	-	-	TERLS	-	-	-	86	-	-
1976-Y376	2443010.65	1976 Aug 20 0333:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y377	2443010.76	1976 Aug 20 0612:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y378	2443010.85	1976 Aug 20 0825:00	M-100B	-	-	ISRO-8.275	-	-	-	TERLS	-	-	-	86	-	-
1976-Y379	2443010.88	1976 Aug 20 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y380	2443010.99	1976 Aug 20 1144:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y381	2443011.11	1976 Aug 20 1442:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1976-Y382	2443011.24	1976 Aug 20 1742:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y383	2443011.38	1976 Aug 20 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1976-Y385	2443012.24	1976 Aug 21 1750:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOCOR	-	-	89	-	-
1976-Y386	2443013.21	1976 Aug 22 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP17	-	-	84	-	-
1976-Y387	2443014.21	1976 Aug 23 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP6	-	-	92	-	-
1976-Y388	2443015.17	1976 Aug 24 1600:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	87	-	-
1976-Y389	2443015.21	1976 Aug 24 1700:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	86	-	-
1976-Y390	2443015.38	1976 Aug 24 2106:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y391	2443015.38	1976 Aug 24 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1976-Y392	2443016.10	1976 Aug 25 1430:00	M-100B	-	-	ISRO-8.276	-	-	-	TERLS	-	-	-	80	-	-
1976-Y393	2443016.17	1976 Aug 25 1610:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y394	2443016.21	1976 Aug 25 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP18	-	-	84	-	-
1976-Y396	2443017.17	1976 Aug 26 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP19	-	-	89	-	-
1976-Y397	2443017.21	1976 Aug 26 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP19	-	-	89	-	-
1976-Y398	2443017.38	1976 Aug 26 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1976-Y399	2443018.21	1976 Aug 27 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP20	-	-	85	-	-
1976-Y400	2443019.21	1976 Aug 28 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP20	-	-	88	-	-
1976-Y401	2443019.25	1976 Aug 28 1800:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP21	-	-	86	-	-
1976-Y402	2443021.17	1976 Aug 30 1600:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP22	-	-	89	-	-
1976-Y403	2443021.21	1976 Aug 30 1700:00	M-100	-	-	-	-	-	SHOK	GMS76E	LP22	-	-	86	-	-
1976-Y404	2443022.38	1976 Aug 31 2106:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1976-Y405	2443022.38	1976 Aug 31 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1976-Y406	2443023.10	1976 Sep 01 1430:00	M-100	-	-	ISRO-8.277	-	-	-	TERLS	-	-	-	81	-	-
1976-Y407	2443023.12	1976 Sep 01 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y410	2443024.38	1976 Sep 02 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-Y412	2443029.38	1976 Sep 07 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y415	2443030.23	1976 Sep 08 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y416	2443031.10	1976 Sep 09 1430:00	M-100	-	-	ISRO-8.278	-	-	-	TERLS	-	-	-	84	-	-
1976-Y417	2443031.38	1976 Sep 09 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-Y418	2443036.38	1976 Sep 14 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1976-Y419	2443036.42	1976 Sep 14 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1976-Y420	2443037.10	1976 Sep 15 1430:00	M-100	-	-	ISRO-8.279	-	-	-	TERLS	-	-	-	84	-	-
1976-Y421	2443037.12	1976 Sep 15 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y424	2443037.26	1976 Sep 15 1820:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y426	2443038.60	1976 Sep 17 0220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y427	2443043.38	1976 Sep 21 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1976-Y428	2443043.38	1976 Sep 21 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y429	2443044.12	1976 Sep 22 1454:00	M-100	-	-	ISRO-8.280	-	-	-	TERLS	-	-	-	86	-	-
1976-Y430	2443044.19	1976 Sep 22 1640:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1976-Y433	2443045.10	1976 Sep 23 1430:00	M-100	-	-	ISRO-8.281	-	-	-	TERLS	-	-	-	87	-	-
1976-Y434	2443046.16	1976 Sep 24 1550:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y435	2443046.22	1976 Sep 24 1710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1976-Y436	2443046.31	1976 Sep 24 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-Y437	2443046.37	1976 Sep 24 2050:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1976-Y438	2443046.80	1976 Sep 25 0715:00	M-100B	-	-	ISRO-8.282	-	-	-	TERLS	-	-	-	90	-	-
1976-S418	2443047.81	1976 Sep 26 0730	M-100	-	-	-	Ozone test	-	-	TERLS	-	-	-	80?	-	-
1976-Y440	2443050.38	1976 Sep 28 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y441	2443050.38	1976 Sep 28 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1976-Y442	2443051.10	1976 Sep 29 1430:00	M-100	-	-	ISRO-8.283	-	-	-	TERLS	-	-	-	86	-	-
1976-W1391	2443051.21	1976 Sep 29 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1976-Y444	2443052.40	1976 Sep 30 2140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y445	2443052.56	1976 Oct 01 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1976-Y446	2443052.62	1976 Oct 01 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y447	2443057.38	1976 Oct 05 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y448	2443057.42	1976 Oct 05 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1976-W1430	2443058.10	1976 Oct 06 1430:00	M-100B	-	-	ISRO-8.284	-	-	-	TERLS	-	-	-	66	-	-
1976-W1431	2443058.12	1976 Oct 06 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1976-Y449	2443058.19	1976 Oct 06 1640:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y451	2443058.27	1976 Oct 06 1830:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y453	2443060.20	1976 Oct 08 1652:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y454	2443064.38	1976 Oct 12 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1976-Y455	2443064.38	1976 Oct 12 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y456	2443064.92	1976 Oct 13 1005:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y457	2443065.10	1976 Oct 13 1430:00	M-100B	-	-	ISRO-8.285	-	-	-	TERLS	-	-	-	80	-	-
1976-Y460	2443065.96	1976 Oct 14 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y461	2443067.18	1976 Oct 15 1615:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y462	2443071.38	1976 Oct 19 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1976-Y463	2443071.38	1976 Oct 19 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y464	2443071.95	1976 Oct 20 1055:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1976-W1492	2443071.96	1976 Oct 20 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP1	-	-	78	-	-
1976-Y465	2443072.09	1976 Oct 20 1410:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y466	2443072.10	1976 Oct 20 1430:00	M-100B	-	-	ISRO-8.286	-	-	-	TERLS	-	-	-	82	-	-
1976-Y469	2443073.99	1976 Oct 22 1140:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP2	-	-	85?	-	-
1976-W1516	2443076.04	1976 Oct 24 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP3	-	-	76	-	-
1976-Y470	2443078.06	1976 Oct 26 1320:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP4	-	-	85?	-	-
1976-Y471	2443078.38	1976 Oct 26 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y472	2443078.38	1976 Oct 26 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y473	2443078.92	1976 Oct 27 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1976-Y474	2443078.97	1976 Oct 27 1110:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y475	2443079.00	1976 Oct 27 1200:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	85?	-	-
1976-Y477	2443079.10	1976 Oct 27 1430:00	M-100B	-	-	ISRO-8.287	-	-	-	TERLS	-	-	-	82	-	-
1976-W1538	2443080.00	1976 Oct 28 1200:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP6	-	-	76	-	-
1976-Y481	2443082.08	1976 Oct 30 1400:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP7	-	-	85	-	-
1976-Y482	2443085.04	1976 Nov 02 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP8	-	-	80	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y483	2443085.38	1976 Nov 02 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1976-Y484	2443085.38	1976 Nov 02 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y485	2443085.91	1976 Nov 03 0950:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y486	2443086.10	1976 Nov 03 1430:00	M-100B	-	-	ISRO-8.288	-	-	-	TERLS	-	-	-	83	-	-
1976-Y489	2443088.96	1976 Nov 06 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP9	-	-	83	-	-
1976-Y490	2443092.38	1976 Nov 09 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1976-Y491	2443092.38	1976 Nov 09 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1976-Y492	2443092.54	1976 Nov 10 0100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1976-Y493	2443093.12	1976 Nov 10 1500:00	M-100A	-	-	ISRO-8.289	-	-	-	TERLS	-	-	-	83	-	-
1976-Y494	2443093.16	1976 Nov 10 1545:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y498	2443098.96	1976 Nov 16 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP9	-	-	80	-	-
1976-Y499	2443099.38	1976 Nov 16 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1976-Y500	2443099.38	1976 Nov 16 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1976-Y501	2443100.10	1976 Nov 17 1430:00	M-100B	-	-	ISRO-8.290	-	-	-	TERLS	-	-	-	85	-	-
1976-Y502	2443100.21	1976 Nov 17 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1976-Y506	2443101.04	1976 Nov 18 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP10	-	-	85?	-	-
1976-Y507	2443105.04	1976 Nov 22 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP11	-	-	85?	-	-
1976-Y508	2443106.38	1976 Nov 23 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1976-Y509	2443106.38	1976 Nov 23 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1976-Y510	2443106.44	1976 Nov 23 2231:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1976-Y511	2443107.10	1976 Nov 24 1430:00	M-100B	-	-	ISRO-8.291	-	-	-	TERLS	-	-	-	82	-	-
1976-Y512	2443107.15	1976 Nov 24 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1976-W1702	2443107.96	1976 Nov 25 1100:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	77	-	-
1976-W1705	2443108.44	1976 Nov 25 2231:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1976-Y516	2443109.12	1976 Nov 26 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1976-Y517	2443110.08	1976 Nov 27 1400:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	81	-	-
1976-Y518	2443113.38	1976 Nov 30 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1976-Y519	2443113.38	1976 Nov 30 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1976-Y520	2443114.10	1976 Dec 01 1430:00	M-100B	-	-	ISRO-8.292	-	-	-	TERLS	-	-	-	81	-	-
1976-W1735	2443114.22	1976 Dec 01 1710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1976-Y522	2443114.25	1976 Dec 01 1800:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP1	-	-	86	-	-
1976-Y524	2443114.29	1976 Dec 01 1900:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP1	-	-	86	-	-
1976-W1739	2443115.21	1976 Dec 02 1700:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP2	-	-	79	-	-
1976-Y525	2443116.21	1976 Dec 03 1700:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP3	-	-	81	-	-
1976-Y526	2443118.17	1976 Dec 05 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP4	-	-	82	-	-
1976-Y527	2443119.04	1976 Dec 06 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP12	-	-	93	-	-
1976-Y528	2443119.85	1976 Dec 07 0830:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1976-Y529	2443120.38	1976 Dec 07 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1976-Y530	2443120.38	1976 Dec 07 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1976-S444	2443120.50	1976 Dec 8 0000:00	M-100	?	-	-	Elec conductivity	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y531	2443120.99	1976 Dec 08 1150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y532	2443121.10	1976 Dec 08 1430:00	M-100B	-	-	ISRO-8.293	-	-	-	TERLS	-	-	-	86	-	-
1976-Y534	2443121.22	1976 Dec 08 1710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y536	2443122.00	1976 Dec 09 1200:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP13	-	-	85	-	-
1976-Y537	2443123.11	1976 Dec 10 1440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1976-Y540	2443123.31	1976 Dec 10 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1976-Y542	2443124.96	1976 Dec 12 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP14	-	-	80	-	-
1976-Y543	2443125.00	1976 Dec 12 1200:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP14	-	-	82	-	-
1976-Y544	2443125.96	1976 Dec 13 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP15	-	-	82	-	-
1976-W1799	2443126.10	1976 Dec 13 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1976-Y545	2443126.23	1976 Dec 13 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1976-Y546	2443127.38	1976 Dec 14 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1976-Y547	2443127.38	1976 Dec 14 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1976-Y548	2443128.08	1976 Dec 15 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1976-Y550	2443128.21	1976 Dec 15 1700:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP5	-	-	87	-	-
1976-Y552	2443129.10	1976 Dec 16 1430:00	M-100B	-	-	ISRO-8.294	-	-	-	TERLS	-	-	-	85	-	-
1976-Y554	2443129.29	1976 Dec 16 1900:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP6	-	-	83	-	-
1976-Y555	2443129.82	1976 Dec 17 0736:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y556	2443129.88	1976 Dec 17 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y557	2443130.17	1976 Dec 17 1600:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	84	-	-
1976-Y558	2443130.21	1976 Dec 17 1700:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOSWR	-	-	84	-	-
1976-Y559	2443131.17	1976 Dec 18 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP6	-	-	87	-	-
1976-Y560	2443133.12	1976 Dec 20 1500:00	M-100	-	-	-	-	-	SHOK	IOLZ	RODR	-	-	87	-	-
1976-Y561	2443134.38	1976 Dec 21 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1976-Y562	2443134.38	1976 Dec 21 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1976-Y563	2443134.85	1976 Dec 22 0830:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1976-Y564	2443134.90	1976 Dec 22 0935:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1976-Y565	2443135.10	1976 Dec 22 1430:00	M-100A	-	-	ISRO-8.295	-	-	-	TERLS	-	-	-	81	-	-
1976-S441	2443135.50	1976 Dec 23	M-100	-	-	-	-	-	-	GTsP-4?	-	-	-	85?	-	-
1976-S442	2443135.50	1976 Dec 23	M-100	-	-	-	-	-	-	GTsP-4?	-	-	-	85?	-	-
1976-S443	2443135.50	1976 Dec 23	M-100	-	-	-	-	-	-	GTsP-4?	-	-	-	85?	-	-
1976-Y569	2443136.17	1976 Dec 23 1600:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOCOR	-	-	87	-	-
1976-Y570	2443136.25	1976 Dec 23 1800:00	M-100	-	-	-	-	-	SHOK	IOLZ	IOCOR	-	-	87	-	-
1976-Y571	2443138.17	1976 Dec 25 1600:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP16	-	-	87	-	-
1976-Y572	2443138.17	1976 Dec 25 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP8	-	-	90	-	-
1976-Y573	2443138.21	1976 Dec 25 1700:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP8	-	-	86	-	-
1976-Y574	2443139.17	1976 Dec 26 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP9	-	-	85	-	-
1976-Y575	2443139.21	1976 Dec 26 1700:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP9	-	-	85	-	-
1976-Y576	2443140.17	1976 Dec 27 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP10	-	-	81	-	-
1976-Y577	2443140.25	1976 Dec 27 1800:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP11	-	-	87	-	-
1976-Y578	2443141.04	1976 Dec 28 1300:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP17	-	-	88	-	-
1976-Y579	2443141.08	1976 Dec 28 1400:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP17	-	-	84	-	-
1976-Y580	2443141.38	1976 Dec 28 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1976-Y581	2443141.54	1976 Dec 29 0100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1976-W1881	2443141.88	1976 Dec 29 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1976-Y582	2443142.10	1976 Dec 29 1430:00	M-100B	-	-	ISRO 8.296	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y585	2443142.96	1976 Dec 30 1100:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP18	-	-	84	-	-
1976-Y586	2443143.17	1976 Dec 30 1600:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP12	-	-	86	-	-
1976-Y587	2443143.25	1976 Dec 30 1800:00	M-100	-	-	-	-	-	SHOK	GMS76K	LP12	-	-	86	-	-
1977-Y01	2443144.88	1977 Jan 01 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP19	-	-	85	-	-
1977-Y02	2443146.17	1977 Jan 02 1600:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	83	-	-
1977-Y03	2443146.21	1977 Jan 02 1700:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	83	-	-
1977-Y04	2443146.88	1977 Jan 03 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP20	-	-	87	-	-
1977-Y05	2443148.03	1977 Jan 04 1240:00	M-100	-	-	-	-	-	KORO	GMS77A	LP1	-	-	86	-	-
1977-Y06	2443148.38	1977 Jan 04 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1977-Y07	2443148.38	1977 Jan 04 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1977-Y08	2443148.88	1977 Jan 05 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP21	-	-	86	-	-
1977-Y09	2443148.91	1977 Jan 05 0950:00	M-100	-	-	-	-	-	KORO	GMS77A	LP2	-	-	87	-	-
1977-W27	2443148.94	1977 Jan 05 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-W28	2443148.99	1977 Jan 05 1140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-Y10	2443149.12	1977 Jan 05 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1977-W46	2443150.86	1977 Jan 07 0840:00	M-100	-	-	-	-	-	KORO	GMS77A	LP3	-	-	78	-	-
1977-Y13	2443155.38	1977 Jan 11 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1977-W69	2443155.38	1977 Jan 11 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1977-Y14	2443155.73	1977 Jan 12 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-W71	2443155.86	1977 Jan 12 0840:00	M-100	-	-	-	-	-	KORO	GMS77A	LP4	-	-	79	-	-
1977-Y15	2443156.12	1977 Jan 12 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1977-Y19	2443160.81	1977 Jan 17 0730:00	M-100	-	-	-	-	-	KORO	GMS77A	LP5	-	-	85	-	-
1977-Y21	2443162.38	1977 Jan 18 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-Y22	2443162.38	1977 Jan 18 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y25	2443162.83	1977 Jan 19 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-Y26	2443163.12	1977 Jan 19 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1977-Y30	2443163.79	1977 Jan 20 0700:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP22	-	-	87	-	-
1977-W139	2443164.88	1977 Jan 21 0900:00	M-100	-	-	-	-	-	KORO	GMS77A	LP6	-	-	78	-	-
1977-Y31	2443166.79	1977 Jan 23 0700:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP23	-	-	84	-	-
1977-W157	2443166.94	1977 Jan 23 1036:00	M-100	-	-	-	-	-	KORO	GMS77A	LP7	-	-	77	-	-
1977-Y32	2443167.13	1977 Jan 23 1510:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y33	2443168.12	1977 Jan 24 1500:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP24	-	-	87	-	-
1977-Y34	2443169.38	1977 Jan 25 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y35	2443169.83	1977 Jan 26 0800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1977-Y36	2443169.88	1977 Jan 26 0910:00	M-100	-	-	-	-	-	KORO	GMS77A	LP8	-	-	83	-	-
1977-Y37	2443169.93	1977 Jan 26 1020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y39	2443170.84	1977 Jan 27 0810:00	M-100	-	-	-	-	-	KORO	GMS77A	LP9	-	-	81	-	-
1977-Y40	2443171.12	1977 Jan 27 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1977-W202	2443172.12	1977 Jan 28 1450:00	M-100	-	-	-	-	-	KORO	GMS77A	LP10	-	-	77	-	-
1977-Y41	2443176.38	1977 Feb 01 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y42	2443176.42	1977 Feb 01 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-W251	2443176.94	1977 Feb 02 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1977-Y43	2443177.12	1977 Feb 02 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1977-Y45	2443177.88	1977 Feb 03 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP25	-	-	84	-	-
1977-Y46	2443177.92	1977 Feb 03 1000:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP25	-	-	82	-	-
1977-Y47	2443178.38	1977 Feb 03 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1977-Y48	2443178.88	1977 Feb 04 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP1	-	-	85	-	-
1977-Y49	2443178.92	1977 Feb 04 1000:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP1	-	-	86	-	-
1977-Y50	2443180.88	1977 Feb 06 0900:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP26	-	-	84	-	-
1977-Y51	2443180.92	1977 Feb 06 1000:00	M-100	-	-	-	-	-	SHIR	GMS76J	LP26	-	-	86	-	-
1977-Y52	2443183.38	1977 Feb 08 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1977-Y53	2443183.38	1977 Feb 08 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y54	2443183.90	1977 Feb 09 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-A10	2443184.12	1977 Feb 09 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	36	-	-
1977-W313	2443184.17	1977 Feb 09 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	79	-	-
1977-Y58	2443185.12	1977 Feb 10 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1977-Y59	2443185.38	1977 Feb 10 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1977-Y64	2443190.38	1977 Feb 15 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y65	2443190.38	1977 Feb 15 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y66	2443190.94	1977 Feb 16 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y67	2443191.12	1977 Feb 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	83	-	-
1977-Y68	2443192.12	1977 Feb 17 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y69	2443192.38	1977 Feb 17 2112:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-Y70	2443193.12	1977 Feb 18 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1977-W387	2443197.38	1977 Feb 22 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	66	-	-
1977-Y72	2443197.38	1977 Feb 22 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y73	2443197.40	1977 Feb 22 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y74	2443198.12	1977 Feb 23 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1977-Y75	2443198.12	1977 Feb 23 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1977-Y77	2443199.38	1977 Feb 24 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	95	-	-
1977-Y79	2443200.12	1977 Feb 25 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1977-Y81	2443204.38	1977 Mar 01 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y82	2443204.93	1977 Mar 02 1020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y83	2443205.12	1977 Mar 02 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1977-Y84	2443205.17	1977 Mar 02 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1977-Y87	2443205.38	1977 Mar 02 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1977-Y88	2443206.38	1977 Mar 03 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y90	2443207.40	1977 Mar 04 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y91	2443211.38	1977 Mar 08 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y92	2443211.42	1977 Mar 08 2200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1977-W476	2443211.94	1977 Mar 09 1032:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-Y93	2443212.12	1977 Mar 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	94	-	-
1977-Y94	2443212.12	1977 Mar 09 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y96	2443213.38	1977 Mar 10 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y97	2443214.12	1977 Mar 11 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1977-W500	2443214.71	1977 Mar 12 0500:00	M-100	-	-	-	-	-	KORO	GMS77C	LP1	-	-	78	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-Y98	2443216.71	1977 Mar 14 0500:00	M-100	-	-	-	-	-	KORO	GMS77C	LP2	-	-	84	-	-
1977-Y99	2443217.12	1977 Mar 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1977-Y100	2443218.38	1977 Mar 15 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1977-Y101	2443219.06	1977 Mar 16 1320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-Y102	2443219.08	1977 Mar 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-Y103	2443219.12	1977 Mar 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1977-W515	2443219.12	1977 Mar 16 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1977-Y104	2443219.15	1977 Mar 16 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1977-Y107	2443220.38	1977 Mar 17 2106:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1977-Y108	2443220.75	1977 Mar 18 0600:00	M-100	-	-	-	-	-	KORO	GMS77C	LP3	-	-	82	-	-
1977-Y109	2443221.09	1977 Mar 18 1410:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y110	2443221.14	1977 Mar 18 1520:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-Y111	2443221.19	1977 Mar 18 1640:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y113	2443221.75	1977 Mar 19 0600:00	M-100	-	-	-	-	-	KORO	GMS77C	LP4	-	-	84	-	-
1977-Y114	2443222.75	1977 Mar 20 0600:00	M-100	-	-	-	-	-	KORO	GMS77C	LP5	-	-	88	-	-
1977-Y115	2443223.75	1977 Mar 21 0600:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	83	-	-
1977-Y116	2443224.12	1977 Mar 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1977-Y117	2443224.75	1977 Mar 22 0600:00	M-100	-	-	-	-	-	KORO	GMS77C	LP6	-	-	83	-	-
1977-Y118	2443225.38	1977 Mar 22 2100:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y119	2443225.75	1977 Mar 23 0600:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCOR	-	-	85	-	-
1977-Y120	2443226.06	1977 Mar 23 1320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-Y121	2443226.12	1977 Mar 23 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	93	-	-
1977-W553	2443226.12	1977 Mar 23 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	75	-	-
1977-Y122	2443226.15	1977 Mar 23 1530:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y127	2443228.08	1977 Mar 25 1401:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-Y128	2443228.12	1977 Mar 25 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1977-Y129	2443228.75	1977 Mar 26 0600:00	M-100	-	-	-	-	-	KORO	GMS77C	LP7	-	-	85	-	-
1977-Y130	2443230.79	1977 Mar 28 0700:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	82	-	-
1977-Y131	2443230.88	1977 Mar 28 0900:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	81	-	-
1977-Y132	2443233.06	1977 Mar 30 1320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1977-Y133	2443233.08	1977 Mar 30 1401:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y134	2443233.12	1977 Mar 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1977-Y135	2443233.12	1977 Mar 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y136	2443233.12	1977 Mar 30 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1977-Y139	2443235.08	1977 Apr 01 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-Y142	2443239.90	1977 Apr 06 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1977-Y143	2443239.97	1977 Apr 06 1110:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1977-Y144	2443240.08	1977 Apr 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1977-Y145	2443240.08	1977 Apr 06 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1977-Y146	2443240.12	1977 Apr 06 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1977-Y147	2443240.12	1977 Apr 06 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1977-Y150	2443242.08	1977 Apr 08 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y152	2443246.82	1977 Apr 13 0740:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y153	2443247.08	1977 Apr 13 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y154	2443247.12	1977 Apr 13 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1977-Y155	2443247.12	1977 Apr 13 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1977-W671	2443247.71	1977 Apr 14 0500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1977-Y159	2443249.08	1977 Apr 15 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1977-Y160	2443250.12	1977 Apr 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1977-Y161	2443252.17	1977 Apr 18 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1977-W696	2443254.08	1977 Apr 20 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1977-Y162	2443254.12	1977 Apr 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1977-Y163	2443254.12	1977 Apr 20 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1977-W700	2443254.21	1977 Apr 20 1704:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	67	-	-
1977-W706	2443254.33	1977 Apr 20 2000:00	M-100	-	-	-	-	-	-	MLD	-	-	-	71	-	-
1977-Y166	2443255.89	1977 Apr 22 0920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-W711	2443256.08	1977 Apr 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1977-Y168	2443260.90	1977 Apr 27 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y169	2443261.08	1977 Apr 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y170	2443261.08	1977 Apr 27 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y171	2443261.12	1977 Apr 27 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1977-Y174	2443267.88	1977 May 04 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-Y175	2443268.08	1977 May 04 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y176	2443268.12	1977 May 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y177	2443268.12	1977 May 04 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y179	2443272.08	1977 May 08 1400:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP1	-	-	87	-	-
1977-Y180	2443274.88	1977 May 11 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y181	2443274.88	1977 May 11 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-Y182	2443275.08	1977 May 11 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1977-Y183	2443275.12	1977 May 11 1500:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP2	-	-	85	-	-
1977-Y184	2443275.12	1977 May 11 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y188	2443278.08	1977 May 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1977-Y189	2443280.12	1977 May 16 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y190	2443281.25	1977 May 17 1800:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP3	-	-	82	-	-
1977-Y191	2443282.08	1977 May 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y192	2443282.08	1977 May 18 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y193	2443282.12	1977 May 18 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y194	2443282.12	1977 May 18 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y198	2443283.08	1977 May 19 1400:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP4	-	-	85	-	-
1977-Y199	2443284.12	1977 May 20 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y201	2443285.29	1977 May 21 1900:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP5	-	-	85?	-	-
1977-Y202	2443285.42	1977 May 21 2200:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP6	-	-	80	-	-
1977-Y203	2443287.12	1977 May 23 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1977-Y204	2443289.08	1977 May 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1977-Y205	2443289.12	1977 May 25 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-W887	2443289.12	1977 May 25 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-Y207	2443289.23	1977 May 25 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-W901	2443291.12	1977 May 27 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	76	-	-
1977-Y211	2443291.32	1977 May 27 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y212	2443291.36	1977 May 27 2045:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y214	2443294.12	1977 May 30 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-W1922	2443294.50	1977 Jun	M-100B	-	Intercomp prep	-	[Dubious]	-	KORO	GMS77H	-	-	-	70	-	-
1977-W1923	2443294.50	1977 Jun	M-100B	-	Intercomp prep	-	[Dubious]	-	KORO	GMS77H	-	-	-	70	-	-
1977-S417	2443295.82	1977 Jun 1 0745	M-100	-	-	-	Ozone test	-	-	TERLS	-	-	-	80?	-	-
1977-Y215	2443296.08	1977 Jun 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1977-Y216	2443296.08	1977 Jun 01 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-Y217	2443296.12	1977 Jun 01 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y218	2443296.12	1977 Jun 01 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1977-Y219	2443296.12	1977 Jun 01 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1977-Y223	2443299.29	1977 Jun 04 1900:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP7	-	-	80	-	-
1977-Y224	2443299.46	1977 Jun 04 2300:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP7	-	-	81	-	-
1977-Y225	2443301.46	1977 Jun 06 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y226	2443302.90	1977 Jun 08 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y227	2443303.08	1977 Jun 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-W964	2443303.08	1977 Jun 08 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1977-Y228	2443303.12	1977 Jun 08 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1977-Y231	2443310.01	1977 Jun 15 1210:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y232	2443310.08	1977 Jun 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1977-Y233	2443310.08	1977 Jun 15 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-Y234	2443310.12	1977 Jun 15 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1977-Y237	2443312.08	1977 Jun 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y238	2443317.08	1977 Jun 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1977-Y239	2443317.08	1977 Jun 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y240	2443317.12	1977 Jun 22 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1977-Y244	2443319.08	1977 Jun 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y246	2443323.94	1977 Jun 29 1040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-Y247	2443324.08	1977 Jun 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1977-Y248	2443324.08	1977 Jun 29 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-W1095	2443324.12	1977 Jun 29 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	76	-	-
1977-Y252	2443326.08	1977 Jul 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1977-Y253	2443331.08	1977 Jul 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1977-W1126	2443331.12	1977 Jul 06 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1977-Y254	2443331.15	1977 Jul 06 1530:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1977-Y258	2443333.08	1977 Jul 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1977-Y259	2443338.08	1977 Jul 13 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y260	2443338.12	1977 Jul 13 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-Y261	2443338.12	1977 Jul 13 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1977-Y263	2443339.88	1977 Jul 15 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-Y264	2443340.12	1977 Jul 15 1500:00	M-100	-	-	-	-	-	SHOK	GMS77G	LP8	-	-	81	-	-
1977-W1912	2443342.77	1977 Jul 18 0631	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP01	-	-	70	-	-
1977-W1913	2443342.83	1977 Jul 18 0751	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP02	-	-	70	-	-
1977-Y266	2443344.88	1977 Jul 20 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-Y267	2443345.08	1977 Jul 20 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1977-Y268	2443345.08	1977 Jul 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-W1914	2443346.35	1977 Jul 21 2030	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP03	-	-	70	-	-
1977-W1915	2443346.42	1977 Jul 21 2200	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP04	-	-	70	-	-
1977-W1916	2443346.48	1977 Jul 21 2330	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP05	-	-	70	-	-
1977-Y270	2443347.08	1977 Jul 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-W1917	2443349.71	1977 Jul 25 0509	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP06	-	-	70	-	-
1977-W1918	2443349.78	1977 Jul 25 0640	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP07	-	-	70	-	-
1977-W1919	2443349.84	1977 Jul 25 0810	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP08	-	-	70	-	-
1977-W1920	2443351.63	1977 Jul 27 0304	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP09	-	-	70	-	-
1977-W1921	2443351.69	1977 Jul 27 0435	M-100B	-	Intercomp prep	-	-	-	KORO	GMS77H	LP10	-	-	70	-	-
1977-Y275	2443351.88	1977 Jul 27 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y276	2443352.08	1977 Jul 27 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-Y277	2443352.08	1977 Jul 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1977-W1269	2443353.88	1977 Jul 29 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1977-Y283	2443358.88	1977 Aug 03 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y284	2443358.94	1977 Aug 03 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1977-Y285	2443359.08	1977 Aug 03 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1977-Y286	2443359.08	1977 Aug 03 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1977-Y291	2443360.88	1977 Aug 05 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-S422	2443366.09	1977 Aug 10 1405	M-100B	-	US-USSR Intercomp	No. 1	-	-	KORO	WI	LP2	-	-	82	-	-
1977-W1341	2443365.79	1977 Aug 10 0700:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	72	-	-
1977-Y292	2443365.88	1977 Aug 10 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-Y293	2443365.94	1977 Aug 10 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y294	2443366.08	1977 Aug 10 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-S420	2443367.67	1977 Aug 12 0405	M-100B	-	US-USSR Intercomp	No. 2	-	-	KORO	WI	LP2	-	-	82	-	-
1977-Y297	2443367.88	1977 Aug 12 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-S333	2443367.75	1977 Aug 12 0606	M-100B	-	US-USSR Intercomp	No. 3	-	-	KORO	WI	LP2	-	-	82	-	-
1977-S334	2443367.96	1977 Aug 12 1105	M-100B	-	US-USSR Intercomp	No. 4	-	-	KORO	WI	LP2	-	-	81	-	-
1977-S335	2443371.23	1977 Aug 15 1735	M-100B	-	US-USSR Intercomp	No. 5	-	-	KORO	WI	LP2	-	-	84	-	-
1977-S424	2443371.32	1977 Aug 15 1935	M-100B	-	US-USSR Intercomp	No. 6	-	-	KORO	WI	LP2	-	-	80	-	-
1977-M15	2443371.55	1977 Aug 16 0105	M-100B	-	US-USSR Intercomp	No. 7	-	-	KORO	WI	LP2	-	-	79	-	-
1977-S425	2443372.28	1977 Aug 16 1840	M-100B	-	US-USSR Intercomp	No. 8	-	-	KORO	WI	LP2	-	-	85	-	-
1977-S337	2443372.35	1977 Aug 16 2029	M-100B	-	US-USSR Intercomp	No. 9	-	-	KORO	WI	LP2	-	-	84	-	-
1977-Y299	2443372.88	1977 Aug 17 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1977-Y300	2443373.08	1977 Aug 17 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-W1363	2443373.08	1977 Aug 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	69	-	-
1977-Y301	2443373.18	1977 Aug 17 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-S336	2443373.34	1977 Aug 17 2015	M-100B	-	US-USSR Intercomp	No. 10	-	-	KORO	WI	LP2	-	-	86	-	-
1977-S426	2443374.56	1977 Aug 19 0120	M-100B	-	US-USSR Intercomp	No. 11	-	-	KORO	WI	LP2	-	-	84	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S427	2443374.63	1977 Aug 19 0308	M-100B	-	US-USSR Intercomp	No. 12	-	-	KORO	WI	LP2	-	-	84	-	-
1977-S428	2443374.71	1977 Aug 19 0507	M-100B	-	US-USSR Intercomp	No. 13	-	-	KORO	WI	LP2	-	-	83	-	-
1977-Y303	2443374.88	1977 Aug 19 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-S429	2443375.34	1977 Aug 19 2005	M-100B	-	US-USSR Intercomp	No. 14	-	-	KORO	WI	LP2	-	-	83	-	-
1977-S421	2443375.42	1977 Aug 19 2205	M-100B	-	US-USSR Intercomp	No. 15	-	-	KORO	WI	LP2	-	-	82	-	-
1977-S430	2443375.55	1977 Aug 20 0105	M-100B	-	US-USSR Intercomp	No. 16	-	-	KORO	WI	LP2	-	-	83	-	-
1977-S431	2443378.47	1977 Aug 22 2312	M-100B	-	US-USSR Intercomp	No. 17	-	-	KORO	WI	LP2	-	-	83	-	-
1977-S432	2443378.55	1977 Aug 23 0105	M-100B	-	US-USSR Intercomp	No. 18	-	-	KORO	WI	LP2	-	-	84	-	-
1977-S433	2443378.65	1977 Aug 23 0343	M-100B	-	US-USSR Intercomp	No. 19	-	-	KORO	WI	LP2	-	-	84	-	-
1977-Y304	2443379.46	1977 Aug 23 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-S434	2443379.55	1977 Aug 24 0107	M-100B	-	US-USSR Intercomp	No. 20	-	-	KORO	WI	LP2	-	-	84	-	-
1977-W1911	2443379.63	1977 Aug 24 0308	M-100B	-	US-USSR Intercomp	No. 21	-	-	KORO	WI	LP2	-	-	84	-	-
1977-Y305	2443380.08	1977 Aug 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1977-Y306	2443380.08	1977 Aug 24 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y307	2443380.08	1977 Aug 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1977-Y309	2443382.08	1977 Aug 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1977-Y311	2443386.98	1977 Aug 31 1130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-Y312	2443387.08	1977 Aug 31 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y313	2443387.08	1977 Aug 31 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y314	2443387.12	1977 Aug 31 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y320	2443394.08	1977 Sep 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-Y321	2443394.08	1977 Sep 07 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1977-Y322	2443394.08	1977 Sep 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1977-Y324	2443394.32	1977 Sep 07 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-W1461	2443400.40	1977 Sep 13 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1977-Y325	2443401.08	1977 Sep 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y326	2443401.08	1977 Sep 14 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-W1463	2443401.08	1977 Sep 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	67	-	-
1977-Y331	2443408.08	1977 Sep 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-Y332	2443408.08	1977 Sep 21 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1977-W1492	2443408.21	1977 Sep 21 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1977-W1499	2443409.08	1977 Sep 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1977-S418	2443414.69	1977 Sep 28 0430	M-100	-	-	-	Ozonesonde	-	-	TERLS	-	-	-	80?	-	-
1977-W1522	2443415.08	1977 Sep 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	72	-	-
1977-Y338	2443415.08	1977 Sep 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1977-Y339	2443415.12	1977 Sep 28 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1977-W1525	2443415.16	1977 Sep 28 1545:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1977-Y342	2443416.08	1977 Sep 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1977-Y345	2443421.70	1977 Oct 5 0443:00	M-100	-	ISRO 8.345	-	Ozonesonde	-	-	TERLS	-	-	-	90	-	-
1977-Y346	2443422.08	1977 Oct 5 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1977-Y347	2443422.08	1977 Oct 5 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1977-Y348	2443422.12	1977 Oct 5 1500:00	M-100	-	ISRO 8.346?	-	-	-	-	TERLS	-	-	-	85	-	-
1977-W1556	2443422.15	1977 Oct 5 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1977-Y349	2443422.21	1977 Oct 5 1700:00	M-100	-	ISRO 8.347?	-	-	-	-	TERLS	-	-	-	81	-	-
1977-Y351	2443422.33	1977 Oct 5 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1977-Y352	2443422.39	1977 Oct 5 2116:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1977-Y353	2443428.08	1977 Oct 11 1400:00	M-100	-	ISRO 8.348?	-	-	-	-	TERLS	-	-	-	82	-	-
1977-Y354	2443429.02	1977 Oct 12 1230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y355	2443429.07	1977 Oct 12 1345:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y356	2443429.08	1977 Oct 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y357	2443429.08	1977 Oct 12 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1977-Y361	2443430.35	1977 Oct 13 2020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1977-Y362	2443435.39	1977 Oct 18 2128:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1977-Y363	2443436.08	1977 Oct 19 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y364	2443436.08	1977 Oct 19 1400:00	M-100	-	ISRO 8.349?	-	-	-	-	TERLS	-	-	-	82	-	-
1977-W1603	2443436.12	1977 Oct 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1977-W1604	2443436.20	1977 Oct 19 1645:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1977-Y367	2443437.99	1977 Oct 21 1140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-Y368	2443438.03	1977 Oct 21 1240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1977-Y369	2443441.97	1977 Oct 25 1120:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1977-Y370	2443442.02	1977 Oct 25 1230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1977-Y371	2443442.25	1977 Oct 25 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y372	2443443.08	1977 Oct 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-Y373	2443443.08	1977 Oct 26 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1977-W1635	2443443.17	1977 Oct 26 1600:00	M-100	-	ISRO 8.350?	-	-	-	-	TERLS	-	-	-	79	-	-
1977-Y379	2443450.08	1977 Nov 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-Y380	2443450.08	1977 Nov 02 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1977-W1665	2443450.15	1977 Nov 02 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-Y381	2443450.17	1977 Nov 02 1600:00	M-100	-	ISRO 8.351?	-	-	-	-	TERLS	-	-	-	85?	-	-
1977-Y382	2443450.21	1977 Nov 02 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1977-Y383	2443450.25	1977 Nov 02 1800:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1977-Y399	2443453.12	1977 Nov 05 1500:00	M-100	-	-	-	-	-	KORO	GMS77L	LP1	-	-	82	-	-
1977-Y405	2443455.33	1977 Nov 07 2000:00	M-100	-	-	-	-	-	KORO	GMS77L	LP2	-	-	82	-	-
1977-W1692	2443456.21	1977 Nov 08 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP3	-	-	75	-	-
1977-Y406	2443457.08	1977 Nov 09 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1977-Y407	2443457.10	1977 Nov 09 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-W1695	2443457.15	1977 Nov 09 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-Y408	2443457.21	1977 Nov 09 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP4	-	-	82	-	-
1977-Y409	2443457.21	1977 Nov 09 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-Y413	2443457.29	1977 Nov 09 1900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1977-Y415	2443458.12	1977 Nov 10 1500:00	M-100	-	ISRO 8.352?	-	-	-	-	TERLS	-	-	-	86	-	-
1977-Y416	2443459.21	1977 Nov 11 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP4	-	-	86	-	-
1977-Y417	2443461.21	1977 Nov 13 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP5	-	-	81	-	-
1977-W1723	2443463.12	1977 Nov 15 1500:00	M-100	-	-	-	-	-	KORO	GMS77L	LP6	-	-	79	-	-
1977-Y418	2443464.08	1977 Nov 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y419	2443464.08	1977 Nov 16 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-Y420	2443464.12	1977 Nov 16 1500:00	M-100	-	ISRO 8.353?	-	-	-	-	TERLS	-	-	-	86	-	-
1977-W1728	2443464.15	1977 Nov 16 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1977-W1732	2443464.21	1977 Nov 16 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP7	-	-	76	-	-
1977-Y425	2443464.96	1977 Nov 17 1100:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP1	-	-	85	-	-
1977-Y426	2443469.17	1977 Nov 21 1600:00	M-100	-	-	-	-	-	KORO	GMS77L	LP8	-	-	82	-	-
1977-Y427	2443470.12	1977 Nov 22 1500:00	M-100	-	ISRO 8.354?	-	-	-	-	TERLS	-	-	-	82	-	-
1977-Y428	2443470.20	1977 Nov 22 1650:00	M-100	-	-	-	-	-	KORO	GMS77L	LP9	-	-	84	-	-
1977-Y429	2443470.92	1977 Nov 23 1000:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP2	-	-	86	-	-
1977-Y430	2443471.08	1977 Nov 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-Y431	2443471.08	1977 Nov 23 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1977-Y432	2443471.12	1977 Nov 23 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y433	2443471.21	1977 Nov 23 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP10	-	-	84	-	-
1977-Y438	2443472.00	1977 Nov 24 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP3	-	-	86	-	-
1977-Y439	2443472.25	1977 Nov 24 1800:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	88	-	-
1977-W1772	2443473.92	1977 Nov 26 1000:00	M-100	-	-	-	-	-	SHOK	ANTIM	-	-	-	74	-	-
1977-W1773	2443474.21	1977 Nov 26 1700:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	71	-	-
1977-Y440	2443475.92	1977 Nov 28 1000:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP5	-	-	85	-	-
1977-Y441	2443476.12	1977 Nov 28 1500:00	M-100	-	ISRO 8.355?	-	-	-	-	TERLS	-	-	-	85	-	-
1977-W1777	2443476.21	1977 Nov 28 1700:00	M-100	-	-	-	-	-	KORO	IOLZ	IO6540	-	-	77	-	-
1977-W1779	2443476.25	1977 Nov 28 1800:00	M-100	-	-	-	-	-	KORO	GMS77L	LP11	-	-	70	-	-
1977-Y442	2443476.92	1977 Nov 29 1000:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP6	-	-	85	-	-
1977-W1784	2443477.21	1977 Nov 29 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP12	-	-	79	-	-
1977-Y443	2443477.29	1977 Nov 29 1900:00	M-100	-	-	-	-	-	KORO	GMS77L	LP12	-	-	82	-	-
1977-Y444	2443478.08	1977 Nov 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1977-W1794	2443478.08	1977 Nov 30 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1977-Y445	2443478.12	1977 Nov 30 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1977-Y446	2443478.17	1977 Nov 30 1600:00	M-100	-	-	-	-	-	KORO	GMS77L	LP13	-	-	85	-	-
1977-Y447	2443478.17	1977 Nov 30 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1977-Y453	2443478.88	1977 Dec 01 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	104	-	-
1977-Y454	2443479.25	1977 Dec 01 1800:00	M-100	-	-	-	-	-	KORO	GMS77L	LP14	-	-	84	-	-
1977-Y455	2443479.96	1977 Dec 02 1100:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP7	-	-	88	-	-
1977-Y456	2443480.38	1977 Dec 02 2100:00	M-100	-	-	-	-	-	KORO	IOLZ	IOSWR	-	-	82	-	-
1977-Y457	2443481.29	1977 Dec 03 1900:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	85	-	-
1977-Y458	2443485.08	1977 Dec 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1977-Y459	2443485.12	1977 Dec 07 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1977-W1826	2443485.14	1977 Dec 07 1520:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1977-Y461	2443487.25	1977 Dec 09 1800:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	85	-	-
1977-Y462	2443487.92	1977 Dec 10 1000:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP1	-	-	83	-	-
1977-Y463	2443489.21	1977 Dec 11 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	82	-	-
1977-W1856	2443491.88	1977 Dec 14 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1977-Y464	2443492.00	1977 Dec 14 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP1	-	-	80	-	-
1977-Y465	2443492.08	1977 Dec 14 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1977-Y466	2443492.17	1977 Dec 14 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1977-Y467	2443492.21	1977 Dec 14 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1977-Y468	2443492.25	1977 Dec 14 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1977-Y470	2443493.17	1977 Dec 15 1600:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	83	-	-
1977-Y471	2443494.21	1977 Dec 16 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	85	-	-
1977-Y472	2443495.96	1977 Dec 18 1100:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP8	-	-	80	-	-
1977-Y473	2443497.21	1977 Dec 19 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	85	-	-
1977-Y474	2443498.21	1977 Dec 20 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	87	-	-
1977-Y475	2443498.89	1977 Dec 21 0920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y476	2443499.08	1977 Dec 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1977-W1886	2443499.08	1977 Dec 21 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1977-Y477	2443499.19	1977 Dec 21 1630:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1977-Y478	2443499.21	1977 Dec 21 1700:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	85	-	-
1977-Y480	2443500.17	1977 Dec 22 1600:00	M-100	-	-	-	-	-	KORO	GMS77L	LP15	-	-	87	-	-
1977-Y481	2443504.12	1977 Dec 26 1500:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP9	-	-	84	-	-
1977-Y482	2443504.67	1977 Dec 27 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1977-Y483	2443504.82	1977 Dec 27 0740:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1977-Y484	2443505.39	1977 Dec 27 2117:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y485	2443505.46	1977 Dec 27 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y486	2443505.94	1977 Dec 28 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1977-Y487	2443506.08	1977 Dec 28 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1977-Y488	2443506.08	1977 Dec 28 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1977-Y489	2443506.21	1977 Dec 28 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1977-Y491	2443507.07	1977 Dec 29 1340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y492	2443507.12	1977 Dec 29 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1977-Y493	2443507.18	1977 Dec 29 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1977-Y494	2443507.24	1977 Dec 29 1740:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1978-Y03	2443512.90	1978 Jan 04 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1978-W06	2443513.08	1978 Jan 04 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1978-Y04	2443513.08	1978 Jan 04 1400:00	M-100	-	ISRO 8.356?	-	-	-	-	TERLS	-	-	-	86	-	-
1978-Y05	2443513.12	1978 Jan 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y09	2443514.12	1978 Jan 05 1500:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP10	-	-	82	-	-
1978-Y10	2443519.00	1978 Jan 10 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP11	-	-	81	-	-
1978-Y11	2443519.93	1978 Jan 11 1015:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1978-Y12	2443520.00	1978 Jan 11 1200:00	M-100	-	-	-	-	-	KORO	GMS77L	LP16	-	-	90	-	-
1978-Y13	2443520.08	1978 Jan 11 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y14	2443520.08	1978 Jan 11 1400:00	M-100	-	ISRO 8.357?	-	-	-	-	TERLS	-	-	-	86	-	-
1978-Y15	2443520.12	1978 Jan 11 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y19	2443520.85	1978 Jan 12 0820:00	M-100	-	-	-	-	-	KORO	GMS77L	LP17	-	-	84	-	-
1978-Y20	2443521.04	1978 Jan 12 1300:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	84	-	-
1978-Y21	2443522.08	1978 Jan 13 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y22	2443523.08	1978 Jan 14 1400:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	82	-	-
1978-Y23	2443525.08	1978 Jan 16 1400:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	84	-	-
1978-Y24	2443526.96	1978 Jan 18 1100:00	M-100	-	-	-	-	-	KORO	GMS77L	LP18	-	-	81	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y25	2443527.00	1978 Jan 18 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP12	-	-	82	-	-
1978-Y26	2443527.04	1978 Jan 18 1255:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y27	2443527.08	1978 Jan 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y28	2443527.08	1978 Jan 18 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1978-Y29	2443527.08	1978 Jan 18 1400:00	M-100	-	ISRO 8.358?	-	-	-	-	TERLS	-	-	-	86	-	-
1978-Y30	2443527.12	1978 Jan 18 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-Y34	2443528.92	1978 Jan 20 1000:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP13	-	-	85	-	-
1978-Y35	2443528.99	1978 Jan 20 1145:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP13	-	-	85	-	-
1978-Y36	2443532.00	1978 Jan 23 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP14	-	-	86	-	-
1978-Y37	2443533.94	1978 Jan 25 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-W89	2443534.08	1978 Jan 25 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1978-Y38	2443534.08	1978 Jan 25 1400:00	M-100	-	ISRO 8.359?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y39	2443534.12	1978 Jan 25 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y42	2443535.00	1978 Jan 26 1200:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP15	-	-	84	-	-
1978-Y43	2443535.12	1978 Jan 26 1500:00	M-100	-	-	-	-	-	SHOK	GMS77M	LP15	-	-	83	-	-
1978-Y44	2443536.00	1978 Jan 27 1200:00	M-100	-	-	-	-	-	KORO	GMS77L	LP19	-	-	90	-	-
1978-Y46	2443539.08	1978 Jan 30 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1978-Y48	2443540.58	1978 Feb 01 0200:00	M-100	-	-	-	-	-	KORO	GMS77L	LP20	-	-	81	-	-
1978-Y49	2443540.90	1978 Feb 01 0930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y50	2443541.08	1978 Feb 01 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y51	2443541.08	1978 Feb 01 1400:00	M-100	-	ISRO 8.360?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y52	2443541.12	1978 Feb 01 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85?	-	-
1978-Y54	2443542.92	1978 Feb 03 1000:00	M-100	-	-	-	-	-	KORO	GMS77L	LP21	-	-	82	-	-
1978-Y55	2443543.10	1978 Feb 03 1430:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-Y57	2443546.88	1978 Feb 07 0900:00	M-100	-	-	-	-	-	KORO	GMS77L	LP22	-	-	82	-	-
1978-Y59	2443547.92	1978 Feb 08 1010:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y60	2443548.08	1978 Feb 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1978-Y61	2443548.08	1978 Feb 08 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-Y62	2443548.08	1978 Feb 08 1400:00	M-100	-	ISRO 8.361?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y65	2443550.08	1978 Feb 10 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y66	2443554.83	1978 Feb 15 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y67	2443554.88	1978 Feb 15 0900:00	M-100	-	-	-	-	-	KORO	ANTIM	-	-	-	84	-	-
1978-Y68	2443555.08	1978 Feb 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y69	2443555.08	1978 Feb 15 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-Y70	2443555.08	1978 Feb 15 1400:00	M-100	-	ISRO 8.362?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y73	2443556.88	1978 Feb 17 0900:00	M-100	-	-	-	-	-	KORO	GMS77L	LP24	-	-	84	-	-
1978-Y74	2443557.08	1978 Feb 17 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-Y75	2443558.89	1978 Feb 19 0920:00	M-100	-	-	-	-	-	KORO	GMS77L	LP25	-	-	81	-	-
1978-Y79	2443561.88	1978 Feb 22 0900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1978-Y81	2443562.08	1978 Feb 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y82	2443562.08	1978 Feb 22 1400:00	M-100	-	ISRO 8.363?	-	-	-	-	TERLS	-	-	-	85	-	-
1978-Y84	2443562.85	1978 Feb 23 0830:00	M-100	-	-	-	-	-	KORO	GMS77L	LP26	-	-	88	-	-
1978-Y85	2443563.90	1978 Feb 24 0930:00	M-100	-	-	-	-	-	KORO	GMS77L	LP27	-	-	85	-	-
1978-Y87	2443564.08	1978 Feb 24 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y90	2443566.83	1978 Feb 27 0800:00	M-100	-	-	-	-	-	KORO	GMS77L	LP28	-	-	81	-	-
1978-Y93	2443568.81	1978 Mar 01 0730:00	M-100	-	-	-	-	-	KORO	GMS77L	LP29	-	-	87	-	-
1978-Y94	2443569.06	1978 Mar 01 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-Y95	2443569.08	1978 Mar 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y96	2443569.08	1978 Mar 01 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y97	2443569.08	1978 Mar 01 1400:00	M-100	-	ISRO 8.364?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-W260	2443569.12	1978 Mar 01 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1978-Y99	2443570.99	1978 Mar 03 1150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1978-Y100	2443571.06	1978 Mar 03 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1978-Y101	2443571.08	1978 Mar 03 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1978-Y102	2443572.88	1978 Mar 05 0900:00	M-100	-	-	-	-	-	KORO	GMS77L	LP30	-	-	91	-	-
1978-Y103	2443572.93	1978 Mar 05 1015:00	M-100	-	-	-	-	-	KORO	GMS77L	LP30	-	-	83	-	-
1978-Y105	2443574.79	1978 Mar 07 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-Y106	2443575.08	1978 Mar 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y107	2443575.08	1978 Mar 07 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y108	2443575.82	1978 Mar 08 0740:00	M-100	-	-	-	-	-	KORO	GMS77L	LP31	-	-	89	-	-
1978-Y109	2443575.88	1978 Mar 08 0910:00	M-100	-	-	-	-	-	KORO	GMS77L	LP32	-	-	83	-	-
1978-Y110	2443576.08	1978 Mar 08 1400:00	M-100	-	ISRO 8.365?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-W298	2443578.15	1978 Mar 10 1540:00	M-100	-	-	-	-	-	-	OK	-	-	-	68	-	-
1978-Y112	2443583.08	1978 Mar 15 1400:00	M-100	-	ISRO 8.366?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y113	2443583.17	1978 Mar 15 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y116	2443583.29	1978 Mar 15 1900:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y118	2443584.08	1978 Mar 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1978-Y120	2443587.04	1978 Mar 19 1300:00	M-100	-	-	-	-	-	SHIR	GMS78C	LP1	-	-	88	-	-
1978-Y121	2443590.08	1978 Mar 22 1350:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1978-Y122	2443590.08	1978 Mar 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1978-W339	2443590.08	1978 Mar 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	70	-	-
1978-Y123	2443590.08	1978 Mar 22 1400:00	M-100	-	ISRO 8.367?	-	-	-	-	TERLS	-	-	-	85?	-	-
1978-Y124	2443590.17	1978 Mar 22 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y127	2443593.96	1978 Mar 26 1100:00	M-100	-	-	-	-	-	SHIR	GMS78C	LP2	-	-	92	-	-
1978-Y128	2443594.04	1978 Mar 26 1300:00	M-100	-	-	-	-	-	SHIR	GMS78C	LP2	-	-	87	-	-
1978-Y129	2443597.08	1978 Mar 29 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1978-Y130	2443597.08	1978 Mar 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1978-Y131	2443597.08	1978 Mar 29 1400:00	M-100	-	ISRO 8.368?	-	-	-	-	TERLS	-	-	-	85?	-	-
1978-Y132	2443597.10	1978 Mar 29 1420:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y133	2443597.12	1978 Mar 29 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y135	2443598.04	1978 Mar 30 1300:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	88	-	-
1978-Y136	2443598.08	1978 Mar 30 1400:00	M-100	-	-	-	-	-	SHIR	GMS78C	LP4	-	-	83	-	-
1978-Y137	2443599.09	1978 Mar 31 1410:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y138	2443599.21	1978 Mar 31 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1978-Y139	2443602.00	1978 Apr 03 1200:00	M-100	-	-	-	-	-	KORO	GMS78E	LP1	-	-	88	-	-
1978-Y140	2443602.08	1978 Apr 03 1400:00	M-100	-	-	-	-	-	KORO	GMS78E	LP1	-	-	85	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y141	2443604.08	1978 Apr 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-Y142	2443604.12	1978 Apr 05 1500:00	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1978-Y145	2443604.31	1978 Apr 05 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y147	2443604.96	1978 Apr 06 1100:00	M-100	-	-	-	-	-	KORO	GMS78E	LP2	-	-	83	-	-
1978-Y148	2443605.96	1978 Apr 07 1100:00	M-100	-	-	-	-	-	KORO	GMS78E	LP3	-	-	87	-	-
1978-Y149	2443606.02	1978 Apr 07 1230:00	M-100	-	-	-	-	-	KORO	GMS78E	LP3	-	-	85	-	-
1978-Y150	2443606.08	1978 Apr 07 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-Y151	2443606.19	1978 Apr 07 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y152	2443611.08	1978 Apr 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y153	2443611.08	1978 Apr 12 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y154	2443611.18	1978 Apr 12 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y157	2443617.67	1978 Apr 19 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1978-Y158	2443618.08	1978 Apr 19 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-Y159	2443618.17	1978 Apr 19 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-Y163	2443619.21	1978 Apr 20 1700:00	M-100	-	ISRO 8.369?	-	-	-	-	TERLS	-	-	-	80	-	-
1978-Y164	2443619.92	1978 Apr 21 1000:00	M-100	-	-	-	-	-	KORO	GMS78E	LP4	-	-	84	-	-
1978-Y165	2443620.86	1978 Apr 22 0835:00	M-100	-	-	-	-	-	KORO	GMS78E	LP5	-	-	88	-	-
1978-Y166	2443620.92	1978 Apr 22 1000:00	M-100	-	-	-	-	-	KORO	GMS78E	LP5	-	-	88	-	-
1978-Y167	2443621.89	1978 Apr 23 0920:00	M-100	-	-	-	-	-	KORO	GMS78E	LP6	-	-	83	-	-
1978-Y168	2443622.87	1978 Apr 24 0850:00	M-100	-	-	-	-	-	KORO	GMS78E	LP7	-	-	87	-	-
1978-Y169	2443623.87	1978 Apr 25 0850:00	M-100	-	-	-	-	-	KORO	GMS78E	LP8	-	-	84	-	-
1978-Y170	2443624.69	1978 Apr 26 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y171	2443625.08	1978 Apr 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y172	2443625.08	1978 Apr 26 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-Y174	2443625.29	1978 Apr 26 1900:00	M-100	-	-	-	-	-	KORO	GMS78E	LP8	-	-	81	-	-
1978-Y175	2443625.88	1978 Apr 27 0900:00	M-100	-	-	-	-	-	KORO	GMS78E	LP9	-	-	81	-	-
1978-W481	2443631.67	1978 May 03 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1978-Y176	2443632.08	1978 May 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y177	2443632.08	1978 May 03 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-W504	2443638.67	1978 May 10 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	54	-	-
1978-W505	2443638.73	1978 May 10 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	62	-	-
1978-Y179	2443639.08	1978 May 10 1400:00	M-100	-	ISRO 8.370?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y180	2443639.10	1978 May 10 1417:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y181	2443639.12	1978 May 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-W521	2443644.08	1978 May 15 1400:00	M-100	-	ISRO 8.371?	-	-	-	-	TERLS	-	-	-	75	-	-
1978-W528	2443645.27	1978 May 16 1833:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1978-Y187	2443645.67	1978 May 17 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-W529	2443646.08	1978 May 17 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1978-Y188	2443646.08	1978 May 17 1400:00	M-100	-	ISRO 8.372?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y191	2443646.38	1978 May 17 2105:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1978-Y192	2443647.08	1978 May 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y193	2443648.08	1978 May 19 1400:00	M-100	-	ISRO 8.373?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y194	2443652.08	1978 May 23 1400:00	M-100	-	ISRO 8.374?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-W575	2443652.35	1978 May 23 2018:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1978-Y195	2443652.67	1978 May 24 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1978-W576	2443652.72	1978 May 24 0510:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	67	-	-
1978-Y196	2443653.08	1978 May 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-W577	2443653.08	1978 May 24 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1978-Y198	2443653.40	1978 May 24 2132:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-Y199	2443654.50	1978 May 26 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-Y200	2443654.54	1978 May 26 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1978-Y201	2443658.08	1978 May 29 1400:00	M-100	-	ISRO 8.375?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y202	2443659.40	1978 May 30 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1978-Y203	2443660.08	1978 May 31 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-W602	2443660.08	1978 May 31 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1978-Y204	2443660.08	1978 May 31 1400:00	M-100	-	ISRO 8.376?	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y208	2443662.08	1978 Jun 02 1400:00	M-100	-	ISRO 8.377?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-W623	2443666.50	1978 Jun 07 0000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1978-W624	2443666.88	1978 Jun 07 0900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	68	-	-
1978-Y209	2443667.08	1978 Jun 07 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y210	2443667.08	1978 Jun 07 1400:00	M-100	-	ISRO 8.378?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y211	2443667.13	1978 Jun 07 1506:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1978-Y214	2443669.08	1978 Jun 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1978-Y215	2443673.44	1978 Jun 13 2240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1978-Y216	2443674.08	1978 Jun 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y217	2443674.08	1978 Jun 14 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-W643	2443674.08	1978 Jun 14 1400:00	M-100	-	ISRO 8.379?	-	-	-	-	TERLS	-	-	-	78	-	-
1978-W644	2443674.11	1978 Jun 14 1433:00	M-100B	-	ISRO 8.?	-	-	-	-	TERLS	-	-	-	78	-	-
1978-Y218	2443674.13	1978 Jun 14 1506:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1978-Y220	2443676.08	1978 Jun 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y221	2443680.38	1978 Jun 20 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y222	2443681.08	1978 Jun 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1978-Y223	2443681.08	1978 Jun 21 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y224	2443681.18	1978 Jun 21 1613:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1978-Y226	2443681.22	1978 Jun 21 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y229	2443682.08	1978 Jun 22 1400:00	M-100	-	ISRO 8.380?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y230	2443682.09	1978 Jun 22 1412:00	M-100B	-	ISRO 8.?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y231	2443683.08	1978 Jun 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1978-Y232	2443687.38	1978 Jun 27 2105:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y233	2443688.08	1978 Jun 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-W690	2443688.08	1978 Jun 28 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1978-Y234	2443688.08	1978 Jun 28 1400:00	M-100	-	ISRO 8.381?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-W691	2443688.11	1978 Jun 28 1440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1978-Y236	2443688.23	1978 Jun 28 1725:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-Y239	2443690.08	1978 Jun 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y240	2443695.08	1978 Jul 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y241	2443695.08	1978 Jul 05 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-W712	2443695.08	1978 Jul 05 1400:00	M-100	-	ISRO 8.382?	-	-	-	-	TERLS	-	-	-	76	-	-
1978-Y242	2443695.17	1978 Jul 05 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	80	-	-
1978-Y246	2443697.08	1978 Jul 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y247	2443697.25	1978 Jul 07 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y248	2443700.17	1978 Jul 10 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1978-Y249	2443702.08	1978 Jul 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1978-Y250	2443702.08	1978 Jul 12 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y251	2443702.08	1978 Jul 12 1400:00	M-100	-	ISRO 8.383?	-	-	-	-	TERLS	-	-	-	85?	-	-
1978-Y252	2443702.09	1978 Jul 12 1407:00	M-100B	-	ISRO 8.?	-	-	-	-	TERLS	-	-	-	85?	-	-
1978-Y253	2443702.17	1978 Jul 12 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1978-Y258	2443703.08	1978 Jul 13 1400:00	M-100	-	ISRO 8.384?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y260	2443704.08	1978 Jul 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y261	2443705.08	1978 Jul 15 1400:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1978-Y262	2443709.08	1978 Jul 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y263	2443709.08	1978 Jul 19 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-Y264	2443709.11	1978 Jul 19 1434:00	M-100B	-	ISRO 8.385?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y265	2443709.12	1978 Jul 19 1500:00	M-100	-	ISRO 8.?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-W759	2443709.17	1978 Jul 19 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	76	-	-
1978-Y268	2443711.08	1978 Jul 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1978-Y269	2443716.08	1978 Jul 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y270	2443716.08	1978 Jul 26 1400:00	M-100	-	ISRO 8.386?	-	-	-	-	TERLS	-	-	-	82	-	-
1978-Y271	2443716.17	1978 Jul 26 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-Y275	2443723.08	1978 Aug 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1978-Y276	2443723.08	1978 Aug 02 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y277	2443723.12	1978 Aug 02 1500:00	M-100	-	ISRO 8.387?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y278	2443723.17	1978 Aug 02 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-Y283	2443725.08	1978 Aug 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1978-Y284	2443730.08	1978 Aug 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y285	2443730.08	1978 Aug 09 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y286	2443730.08	1978 Aug 09 1400:00	M-100B	-	ISRO 8.388?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y287	2443730.12	1978 Aug 09 1500:00	M-100	-	ISRO 8.?	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y288	2443730.17	1978 Aug 09 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1978-Y291	2443730.29	1978 Aug 09 1900:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y293	2443731.10	1978 Aug 10 1420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1978-Y294	2443731.10	1978 Aug 10 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y295	2443732.08	1978 Aug 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1978-Y296	2443735.10	1978 Aug 14 1420:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1978-Y297	2443735.10	1978 Aug 14 1420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1978-Y298	2443735.15	1978 Aug 14 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y299	2443737.04	1978 Aug 16 1300:00	M-100	-	-	-	-	-	-	KER	-	-	-	81	-	-
1978-Y300	2443737.08	1978 Aug 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1978-Y301	2443737.08	1978 Aug 16 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-W845	2443737.08	1978 Aug 16 1400:00	M-100	-	ISRO 8.389?	-	-	-	-	TERLS	-	-	-	74	-	-
1978-Y302	2443737.19	1978 Aug 16 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1978-Y304	2443737.31	1978 Aug 16 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y307	2443737.44	1978 Aug 16 2230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1978-Y308	2443739.08	1978 Aug 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y309	2443739.15	1978 Aug 18 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1978-Y310	2443740.21	1978 Aug 19 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-W870	2443744.08	1978 Aug 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1978-Y311	2443744.08	1978 Aug 23 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y312	2443744.08	1978 Aug 23 1400:00	M-100	-	ISRO 8.390?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y313	2443744.09	1978 Aug 23 1412:00	M-100B	-	ISRO 8.391?	-	-	-	-	TERLS	-	-	-	85	-	-
1978-Y314	2443744.18	1978 Aug 23 1625:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y316	2443744.21	1978 Aug 23 1700:00	M-100B	-	-	-	-	-	-	KER	-	-	-	89	-	-
1978-W880	2443744.57	1978 Aug 24 0145:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1978-Y318	2443746.10	1978 Aug 25 1417:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y319	2443749.04	1978 Aug 28 1300:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1978-Y320	2443750.17	1978 Aug 29 1606:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-Y321	2443750.68	1978 Aug 30 0420:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1978-Y322	2443750.68	1978 Aug 30 0420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1978-Y323	2443751.04	1978 Aug 30 1300:00	M-100	-	-	-	-	-	-	KER	-	-	-	92	-	-
1978-W898	2443751.08	1978 Aug 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1978-Y324	2443751.08	1978 Aug 30 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1978-Y325	2443751.08	1978 Aug 30 1400:00	M-100	-	ISRO 8.392?	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y327	2443752.57	1978 Sep 1 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y328	2443753.09	1978 Sep 1 1410:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y329	2443755.69	1978 Sep 4 0429:00	M-100	-	ISRO 8.393	O2 profile	-	-	-	TERLS	-	-	-	89	-	-
1978-Y330	2443756.25	1978 Sep 4 1800:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y331	2443756.58	1978 Sep 5 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y332	2443757.08	1978 Sep 5 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1978-Y333	2443757.68	1978 Sep 6 0420:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1978-Y334	2443758.10	1978 Sep 6 1417:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y335	2443758.13	1978 Sep 6 1505:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1978-Y336	2443758.17	1978 Sep 6 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1978-Y339	2443760.15	1978 Sep 8 1536:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1978-Y340	2443764.08	1978 Sep 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1978-Y341	2443764.60	1978 Sep 13 0220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1978-Y342	2443765.08	1978 Sep 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y343	2443765.08	1978 Sep 13 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1978-Y346	2443767.19	1978 Sep 15 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-Y347	2443767.31	1978 Sep 15 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y349	2443772.08	1978 Sep 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1978-Y350	2443772.08	1978 Sep 20 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y352	2443772.17	1978 Sep 20 1607:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y355	2443773.08	1978 Sep 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y357	2443778.40	1978 Sep 26 2132:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1978-Y358	2443779.08	1978 Sep 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y359	2443779.08	1978 Sep 27 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y360	2443779.08	1978 Sep 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1978-Y365	2443786.08	1978 Oct 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-Y366	2443786.08	1978 Oct 04 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y367	2443786.08	1978 Oct 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y370	2443786.39	1978 Oct 04 2125:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1978-Y371	2443786.47	1978 Oct 04 2317:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1978-Y372	2443787.33	1978 Oct 05 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-Y373	2443793.06	1978 Oct 11 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y374	2443793.08	1978 Oct 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y375	2443793.08	1978 Oct 11 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y376	2443793.08	1978 Oct 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1978-Y379	2443799.67	1978 Oct 18 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1978-Y380	2443799.71	1978 Oct 18 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y381	2443800.08	1978 Oct 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1978-Y382	2443800.08	1978 Oct 18 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y383	2443800.08	1978 Oct 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y389	2443806.56	1978 Oct 25 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y390	2443807.08	1978 Oct 25 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1978-Y391	2443807.08	1978 Oct 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y395	2443808.08	1978 Oct 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y396	2443814.08	1978 Nov 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y397	2443814.10	1978 Nov 01 1427:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y398	2443814.12	1978 Nov 01 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y400	2443814.19	1978 Nov 01 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y403	2443814.33	1978 Nov 01 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y405	2443821.08	1978 Nov 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y406	2443821.08	1978 Nov 08 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y407	2443821.12	1978 Nov 08 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1978-Y410	2443821.67	1978 Nov 09 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y411	2443827.67	1978 Nov 15 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y412	2443828.08	1978 Nov 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1978-Y413	2443828.08	1978 Nov 15 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y414	2443828.08	1978 Nov 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1978-W1193	2443834.67	1978 Nov 22 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1978-Y419	2443835.08	1978 Nov 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1978-Y420	2443835.08	1978 Nov 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1978-Y421	2443835.12	1978 Nov 22 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1978-Y424	2443842.08	1978 Nov 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1978-Y426	2443842.14	1978 Nov 29 1520:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y428	2443842.31	1978 Nov 29 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-Y429	2443843.08	1978 Nov 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1978-Y431	2443848.67	1978 Dec 06 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-Y432	2443849.00	1978 Dec 06 1200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1978-Y433	2443849.08	1978 Dec 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y434	2443849.08	1978 Dec 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y438	2443855.69	1978 Dec 13 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-Y439	2443856.08	1978 Dec 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1978-Y440	2443856.08	1978 Dec 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1978-Y441	2443856.11	1978 Dec 13 1440:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1978-Y444	2443862.67	1978 Dec 20 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1978-Y445	2443863.08	1978 Dec 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1978-Y446	2443863.08	1978 Dec 20 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1978-Y447	2443863.08	1978 Dec 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1978-Y451	2443869.71	1978 Dec 27 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1978-Y452	2443870.08	1978 Dec 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1978-Y453	2443870.08	1978 Dec 27 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1978-Y454	2443870.08	1978 Dec 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1979-Y01	2443876.08	1979 Jan 02 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y02	2443876.67	1979 Jan 03 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1979-Y03	2443877.08	1979 Jan 03 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y05	2443877.25	1979 Jan 03 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-Y07	2443879.08	1979 Jan 05 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y09	2443883.67	1979 Jan 10 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1979-Y10	2443884.08	1979 Jan 10 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y11	2443884.08	1979 Jan 10 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-Y12	2443884.08	1979 Jan 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y14	2443884.15	1979 Jan 10 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	88	-	-
1979-Y17	2443885.67	1979 Jan 12 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y18	2443886.08	1979 Jan 12 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y19	2443886.08	1979 Jan 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y20	2443887.15	1979 Jan 13 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	87	-	-
1979-Y21	2443888.15	1979 Jan 14 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y22	2443889.08	1979 Jan 15 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1979-Y23	2443890.15	1979 Jan 16 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	87	-	-
1979-Y24	2443890.67	1979 Jan 17 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y25	2443891.08	1979 Jan 17 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y26	2443891.12	1979 Jan 17 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1979-Y27	2443891.17	1979 Jan 17 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-W93	2443891.17	1979 Jan 17 1600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	74	-	-
1979-Y32	2443892.16	1979 Jan 18 1550:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	80	-	-
1979-Y33	2443892.65	1979 Jan 19 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1979-Y34	2443893.08	1979 Jan 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y35	2443893.15	1979 Jan 19 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y36	2443893.15	1979 Jan 19 1540:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1979-Y37	2443894.14	1979 Jan 20 1525:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	80	-	-
1979-Y38	2443895.15	1979 Jan 21 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	82	-	-
1979-Y40	2443896.08	1979 Jan 22 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y41	2443896.15	1979 Jan 22 1530:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	88	-	-
1979-Y42	2443897.13	1979 Jan 23 1510:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	85	-	-
1979-Y43	2443898.08	1979 Jan 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1979-Y44	2443898.08	1979 Jan 24 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y45	2443898.08	1979 Jan 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y46	2443898.15	1979 Jan 24 1535:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y47	2443898.19	1979 Jan 24 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1979-Y49	2443899.12	1979 Jan 25 1455:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	80	-	-
1979-Y51	2443900.12	1979 Jan 26 1500:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	84	-	-
1979-Y53	2443900.79	1979 Jan 27 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y54	2443901.08	1979 Jan 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y55	2443901.12	1979 Jan 27 1455:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y56	2443901.14	1979 Jan 27 1525:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y58	2443902.15	1979 Jan 28 1535:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	84	-	-
1979-Y59	2443903.08	1979 Jan 29 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y60	2443903.15	1979 Jan 29 1535:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	82	-	-
1979-Y61	2443904.25	1979 Jan 30 1755:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	82	-	-
1979-Y62	2443904.67	1979 Jan 31 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y63	2443905.08	1979 Jan 31 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1979-Y64	2443905.08	1979 Jan 31 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y65	2443905.08	1979 Jan 31 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y66	2443905.12	1979 Jan 31 1500:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y70	2443906.12	1979 Feb 01 1500:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	82	-	-
1979-Y71	2443906.67	1979 Feb 02 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y72	2443906.71	1979 Feb 02 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y73	2443907.08	1979 Feb 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y74	2443907.12	1979 Feb 02 1500:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y75	2443908.25	1979 Feb 03 1800:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y76	2443909.21	1979 Feb 04 1700:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP1	-	-	86	-	-
1979-Y77	2443909.33	1979 Feb 04 2000:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y78	2443910.25	1979 Feb 05 1800:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	86	-	-
1979-Y79	2443910.39	1979 Feb 05 2120:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y80	2443911.29	1979 Feb 06 1900:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	81	-	-
1979-Y81	2443911.67	1979 Feb 07 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y82	2443912.08	1979 Feb 07 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1979-Y83	2443912.12	1979 Feb 07 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y84	2443912.12	1979 Feb 07 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-W210	2443912.28	1979 Feb 07 1850:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	78	-	-
1979-Y87	2443913.64	1979 Feb 09 0320:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y88	2443914.08	1979 Feb 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y89	2443914.21	1979 Feb 09 1700:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP2	-	-	80	-	-
1979-Y90	2443914.35	1979 Feb 09 2020:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y91	2443915.31	1979 Feb 10 1930:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	82	-	-
1979-Y92	2443916.33	1979 Feb 11 1950:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	85	-	-
1979-Y93	2443917.08	1979 Feb 12 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y94	2443917.37	1979 Feb 12 2050:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	85	-	-
1979-Y95	2443918.33	1979 Feb 13 2000:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	80	-	-
1979-Y96	2443918.34	1979 Feb 13 2010:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y97	2443919.08	1979 Feb 14 1350:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	83	-	-
1979-Y98	2443919.08	1979 Feb 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y99	2443919.08	1979 Feb 14 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y100	2443919.08	1979 Feb 14 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y101	2443919.08	1979 Feb 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y102	2443919.17	1979 Feb 14 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y105	2443919.29	1979 Feb 14 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y107	2443919.42	1979 Feb 14 2200:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	84	-	-
1979-Y108	2443920.29	1979 Feb 15 1900:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP3	-	-	85	-	-
1979-Y109	2443921.08	1979 Feb 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y110	2443921.14	1979 Feb 16 1520:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-Y111	2443921.33	1979 Feb 16 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y112	2443921.33	1979 Feb 16 2000:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP4	-	-	91	-	-
1979-Y113	2443922.29	1979 Feb 17 1900:00	M-100	-	-	-	-	-	SHOK	IOLZ	IO65	-	-	83	-	-
1979-Y114	2443923.29	1979 Feb 18 1900:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP4	-	-	84	-	-
1979-Y115	2443925.56	1979 Feb 21 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y116	2443926.08	1979 Feb 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y117	2443926.08	1979 Feb 21 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y118	2443926.17	1979 Feb 21 1600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y120	2443928.25	1979 Feb 23 1800:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP5	-	-	86	-	-
1979-Y121	2443928.47	1979 Feb 23 2315:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y126	2443931.25	1979 Feb 26 1800:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP6	-	-	84	-	-
1979-W310	2443932.07	1979 Feb 27 1340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1979-W319	2443932.79	1979 Feb 28 0700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	57	-	-
1979-W318	2443933.08	1979 Feb 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	66	-	-
1979-Y129	2443933.08	1979 Feb 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1979-Y130	2443933.09	1979 Feb 28 1410:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y133	2443934.21	1979 Mar 01 1700:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP7	-	-	83	-	-
1979-Y134	2443934.29	1979 Mar 01 1900:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP7	-	-	81	-	-
1979-Y136	2443939.57	1979 Mar 07 0145:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-W346	2443940.08	1979 Mar 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	66	-	-
1979-Y138	2443940.22	1979 Mar 07 1715:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y140	2443941.08	1979 Mar 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y141	2443946.69	1979 Mar 14 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-W371	2443946.88	1979 Mar 14 0908:00	M-100	-	-	-	-	-	-	OK	-	-	-	74	-	-
1979-Y142	2443947.00	1979 Mar 14 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y143	2443947.04	1979 Mar 14 1300:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y147	2443947.38	1979 Mar 14 2100:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP8	-	-	84	-	-
1979-Y149	2443947.69	1979 Mar 15 0435:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y150	2443947.83	1979 Mar 15 0800:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-Y151	2443948.67	1979 Mar 16 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-W383	2443948.69	1979 Mar 16 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1979-Y152	2443948.83	1979 Mar 16 0750:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-Y153	2443949.00	1979 Mar 16 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y154	2443949.75	1979 Mar 17 0600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y155	2443949.83	1979 Mar 17 0750:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y156	2443950.67	1979 Mar 18 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y157	2443950.86	1979 Mar 18 0845:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y158	2443951.00	1979 Mar 18 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y159	2443951.21	1979 Mar 18 1700:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP9	-	-	84	-	-
1979-Y160	2443951.29	1979 Mar 18 1900:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP9	-	-	87	-	-
1979-Y161	2443951.67	1979 Mar 19 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y162	2443951.81	1979 Mar 19 0725:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y163	2443951.99	1979 Mar 19 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y164	2443952.67	1979 Mar 20 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1979-Y165	2443952.80	1979 Mar 20 0715:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y166	2443952.99	1979 Mar 20 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y167	2443953.23	1979 Mar 20 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1979-Y168	2443953.69	1979 Mar 21 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y169	2443953.80	1979 Mar 21 0705:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y170	2443953.99	1979 Mar 21 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y171	2443954.21	1979 Mar 21 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1979-Y176	2443954.67	1979 Mar 22 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y177	2443954.79	1979 Mar 22 0655:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y178	2443954.99	1979 Mar 22 1145:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y179	2443955.67	1979 Mar 23 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y180	2443955.78	1979 Mar 23 0645:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y181	2443956.67	1979 Mar 24 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y182	2443956.78	1979 Mar 24 0645:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y183	2443957.00	1979 Mar 24 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y184	2443957.08	1979 Mar 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y185	2443957.67	1979 Mar 25 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y186	2443957.77	1979 Mar 25 0630:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1979-Y187	2443958.67	1979 Mar 26 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y188	2443958.73	1979 Mar 26 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y189	2443958.91	1979 Mar 26 0955:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y190	2443958.99	1979 Mar 26 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y191	2443959.71	1979 Mar 27 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y192	2443959.76	1979 Mar 27 0610:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y193	2443960.25	1979 Mar 27 1800:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP9	-	-	86	-	-
1979-Y194	2443960.29	1979 Mar 27 1900:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP9	-	-	85	-	-
1979-Y195	2443960.67	1979 Mar 28 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y196	2443960.75	1979 Mar 28 0600:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y197	2443960.99	1979 Mar 28 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y199	2443961.21	1979 Mar 28 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y201	2443961.75	1979 Mar 29 0555:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y202	2443962.67	1979 Mar 30 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y203	2443962.74	1979 Mar 30 0545:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y204	2443962.99	1979 Mar 30 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y205	2443963.71	1979 Mar 31 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y206	2443963.73	1979 Mar 31 0535:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y207	2443964.12	1979 Mar 31 1500:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP8	-	-	86	-	-
1979-Y208	2443964.17	1979 Mar 31 1600:00	M-100	-	-	-	-	-	SHOK	GMS79A	LP10	-	-	84	-	-
1979-Y209	2443964.67	1979 Apr 01 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y210	2443964.73	1979 Apr 01 0525:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y211	2443965.00	1979 Apr 01 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-W442	2443965.67	1979 Apr 02 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1979-Y212	2443965.72	1979 Apr 02 0515:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y213	2443966.67	1979 Apr 03 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-Y214	2443966.72	1979 Apr 03 0510:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y215	2443967.00	1979 Apr 03 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y216	2443967.67	1979 Apr 04 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y217	2443967.71	1979 Apr 04 0500:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y219	2443968.25	1979 Apr 04 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1979-Y222	2443968.67	1979 Apr 05 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y223	2443968.70	1979 Apr 05 0450:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y224	2443969.00	1979 Apr 05 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y226	2443969.69	1979 Apr 06 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y227	2443969.69	1979 Apr 06 0440:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y228	2443969.71	1979 Apr 06 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1979-Y229	2443970.65	1979 Apr 07 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1979-Y230	2443970.69	1979 Apr 07 0430:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y231	2443971.00	1979 Apr 07 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y232	2443971.08	1979 Apr 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y233	2443971.65	1979 Apr 08 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y234	2443971.68	1979 Apr 08 0425:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y235	2443972.65	1979 Apr 09 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y236	2443972.68	1979 Apr 09 0415:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y237	2443972.75	1979 Apr 9 0553	M-100	-	-	-	Ozonesonde	-	-	TERLS	-	-	-	95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y238	2443973.00	1979 Apr 09 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y239	2443973.63	1979 Apr 10 0305:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y240	2443973.65	1979 Apr 10 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y241	2443973.70	1979 Apr 10 0450:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y242	2443974.65	1979 Apr 11 0330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y243	2443974.66	1979 Apr 11 0355:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y244	2443974.96	1979 Apr 11 1100:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y246	2443975.21	1979 Apr 11 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-Y247	2443975.65	1979 Apr 12 0330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y248	2443978.00	1979 Apr 14 1201:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-S293	2443980.92	1979 Apr 17 1002	M-100	-	-	-	Ozonesonde	-	-	TERLS	-	-	-	80?	-	-
1979-Y249	2443981.40	1979 Apr 17 2131:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y250	2443981.58	1979 Apr 18 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y251	2443982.08	1979 Apr 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y254	2443983.08	1979 Apr 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1979-Y255	2443984.29	1979 Apr 20 1900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1979-W526	2443985.00	1979 Apr 21 1202:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP1	-	-	78	-	-
1979-W528	2443985.38	1979 Apr 21 2100:00	M-100	-	-	-	-	-	KORO	GMS79C	LP1	-	-	78	-	-
1979-Y256	2443986.33	1979 Apr 22 2000:00	M-100	-	-	-	-	-	KORO	GMS79C	LP2	-	-	82	-	-
1979-Y257	2443987.99	1979 Apr 24 1139:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP2	-	-	84	-	-
1979-Y258	2443988.34	1979 Apr 24 2010:00	M-100	-	-	-	-	-	KORO	GMS79C	LP3	-	-	84	-	-
1979-Y259	2443988.62	1979 Apr 25 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y260	2443989.08	1979 Apr 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y262	2443989.21	1979 Apr 25 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y264	2443990.46	1979 Apr 26 2300:00	M-100	-	-	-	-	-	KORO	GMS79C	LP4	-	-	84	-	-
1979-Y265	2443991.02	1979 Apr 27 1222:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP3	-	-	84	-	-
1979-Y266	2443993.33	1979 Apr 29 2000:00	M-100	-	-	-	-	-	KORO	GMS79C	LP3	-	-	85	-	-
1979-Y267	2443995.33	1979 May 01 2000:00	M-100	-	-	-	-	-	KORO	GMS79C	LP5	-	-	85	-	-
1979-Y268	2443995.64	1979 May 02 0325:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP4	-	-	90	-	-
1979-Y269	2443995.98	1979 May 02 1130:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1979-Y272	2443996.29	1979 May 02 1900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y274	2443996.42	1979 May 02 2200:00	M-100	-	-	-	-	-	KORO	GMS79C	LP6	-	-	82	-	-
1979-Y275	2443996.58	1979 May 03 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y276	2443996.62	1979 May 03 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y278	2444002.58	1979 May 09 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y279	2444003.08	1979 May 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y280	2444003.21	1979 May 09 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1979-Y283	2444003.54	1979 May 10 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y284	2444003.62	1979 May 10 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-Y285	2444007.42	1979 May 13 2200:00	M-100	-	-	-	-	-	KORO	GMS79C	LP6	-	-	83	-	-
1979-Y286	2444009.53	1979 May 16 0040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y287	2444009.58	1979 May 16 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-W631	2444009.60	1979 May 16 0220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	61	-	-
1979-Y288	2444009.91	1979 May 16 0945	M-100	-	-	-	Ozonesonde	-	-	TERLS	-	-	-	94	-	-
1979-Y289	2444010.06	1979 May 16 1324:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP5	-	-	82	-	-
1979-Y290	2444010.08	1979 May 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1979-Y291	2444010.08	1979 May 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1979-Y293	2444010.38	1979 May 16 2100:00	M-100	-	-	-	-	-	KORO	GMS79C	LP7	-	-	82	-	-
1979-Y294	2444011.53	1979 May 18 0040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y295	2444012.06	1979 May 18 1324:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP6	-	-	83	-	-
1979-Y296	2444012.11	1979 May 18 1440:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1979-Y297	2444012.42	1979 May 18 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	84	-	-
1979-Y298	2444013.42	1979 May 19 2200:00	M-100	-	-	-	-	-	KORO	GMS79C	LP7	-	-	88	-	-
1979-Y299	2444015.06	1979 May 21 1325:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	84	-	-
1979-Y301	2444015.42	1979 May 21 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	84	-	-
1979-Y302	2444015.42	1979 May 21 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	84	-	-
1979-Y303	2444016.43	1979 May 22 2220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-W663	2444016.58	1979 May 23 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1979-Y304	2444016.58	1979 May 23 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1979-Y305	2444017.08	1979 May 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y306	2444017.08	1979 May 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-W666	2444017.11	1979 May 23 1432:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	78	-	-
1979-Y309	2444017.46	1979 May 23 2300:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	89	-	-
1979-Y310	2444018.42	1979 May 24 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	85	-	-
1979-Y311	2444019.06	1979 May 25 1323:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	85	-	-
1979-Y312	2444019.08	1979 May 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y313	2444019.53	1979 May 26 0040:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	84	-	-
1979-Y314	2444020.42	1979 May 26 2200:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	89	-	-
1979-W690	2444020.64	1979 May 27 0315:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	79	-	-
1979-W693	2444021.40	1979 May 27 2130:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	79	-	-
1979-Y315	2444021.59	1979 May 28 0211:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	83	-	-
1979-W694	2444021.64	1979 May 28 0316:00	M-100B	-	-	-	-	-	SHIR	GMS79B	LP7	-	-	79	-	-
1979-Y316	2444023.40	1979 May 29 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y317	2444023.40	1979 May 29 2130:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCHR	-	-	81	-	-
1979-Y319	2444024.11	1979 May 30 1440:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y320	2444024.21	1979 May 30 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-Y322	2444024.29	1979 May 30 1900:00	M-100	-	-	-	-	-	-	KER	-	-	-	80	-	-
1979-Y324	2444026.08	1979 Jun 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1979-Y325	2444027.12	1979 Jun 02 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1979-Y327	2444030.12	1979 Jun 05 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1979-Y328	2444030.40	1979 Jun 05 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-Y329	2444030.58	1979 Jun 06 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-S294	2444030.91	1979 Jun 6 0949	M-100	-	-	-	Ozonesonde	-	-	TERLS	-	-	-	80?	-	-
1979-Y330	2444031.08	1979 Jun 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y331	2444031.12	1979 Jun 06 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1979-Y333	2444032.99	1979 Jun 08 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y334	2444033.08	1979 Jun 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1979-Y335	2444033.12	1979 Jun 08 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1979-Y336	2444034.12	1979 Jun 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-W748	2444035.07	1979 Jun 10 1340:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP1	-	-	75	-	-
1979-Y337	2444037.94	1979 Jun 13 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-W758	2444038.07	1979 Jun 13 1340:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP2	-	-	75	-	-
1979-Y338	2444038.08	1979 Jun 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1979-Y340	2444038.12	1979 Jun 13 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1979-Y342	2444038.29	1979 Jun 13 1900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y343	2444040.08	1979 Jun 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y344	2444041.12	1979 Jun 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-W780	2444043.12	1979 Jun 18 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	73	-	-
1979-Y345	2444044.59	1979 Jun 20 0210:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1979-Y346	2444045.08	1979 Jun 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1979-Y347	2444045.08	1979 Jun 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y348	2444045.11	1979 Jun 20 1440:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP3	-	-	86	-	-
1979-Y349	2444045.12	1979 Jun 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-Y351	2444045.35	1979 Jun 20 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y353	2444047.08	1979 Jun 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y354	2444048.08	1979 Jun 23 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP4	-	-	88	-	-
1979-Y355	2444048.12	1979 Jun 23 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1979-Y356	2444049.12	1979 Jun 24 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1979-Y357	2444049.38	1979 Jun 24 2100:00	M-100	-	-	-	-	-	KORO	GMS79C	LP8	-	-	82	-	-
1979-Y358	2444050.03	1979 Jun 25 1240:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP5	-	-	88	-	-
1979-Y359	2444051.38	1979 Jun 26 2100:00	M-100	-	-	-	-	-	KORO	GMS79C	LP9	-	-	92	-	-
1979-Y360	2444051.40	1979 Jun 26 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y361	2444052.08	1979 Jun 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y363	2444052.12	1979 Jun 27 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1979-Y364	2444052.12	1979 Jun 27 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1979-Y365	2444052.12	1979 Jun 27 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y369	2444054.12	1979 Jun 29 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-Y370	2444054.12	1979 Jun 29 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1979-Y371	2444055.12	1979 Jun 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-Y372	2444058.40	1979 Jul 03 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y373	2444058.71	1979 Jul 04 0500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1979-Y374	2444058.71	1979 Jul 04 0500:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y375	2444059.12	1979 Jul 04 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1979-Y376	2444060.12	1979 Jul 05 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1979-Y377	2444061.08	1979 Jul 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1979-Y380	2444062.08	1979 Jul 07 1400:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1979-Y381	2444063.08	1979 Jul 08 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP6	-	-	84	-	-
1979-Y383	2444065.12	1979 Jul 10 1500:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP7	-	-	86	-	-
1979-Y384	2444066.00	1979 Jul 11 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y385	2444066.08	1979 Jul 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y386	2444066.12	1979 Jul 11 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-
1979-Y389	2444066.40	1979 Jul 11 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y392	2444068.08	1979 Jul 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1979-Y396	2444072.58	1979 Jul 18 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y397	2444073.06	1979 Jul 18 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y398	2444073.08	1979 Jul 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y399	2444073.08	1979 Jul 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y402	2444075.08	1979 Jul 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1979-Y403	2444075.08	1979 Jul 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y404	2444077.00	1979 Jul 22 1200:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP8	-	-	81	-	-
1979-Y405	2444077.17	1979 Jul 22 1600:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP8	-	-	82	-	-
1979-Y407	2444080.08	1979 Jul 25 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y408	2444080.08	1979 Jul 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y409	2444080.08	1979 Jul 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y410	2444080.17	1979 Jul 25 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1979-Y413	2444082.00	1979 Jul 27 1200:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP9	-	-	85	-	-
1979-Y414	2444082.08	1979 Jul 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1979-Y415	2444082.08	1979 Jul 27 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP9	-	-	87	-	-
1979-Y416	2444082.12	1979 Jul 27 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y417	2444086.58	1979 Aug 01 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y418	2444087.08	1979 Aug 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y419	2444087.12	1979 Aug 01 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1979-Y423	2444089.08	1979 Aug 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y425	2444089.12	1979 Aug 03 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1979-Y426	2444093.58	1979 Aug 08 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y427	2444094.08	1979 Aug 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1979-Y428	2444094.12	1979 Aug 08 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y429	2444095.08	1979 Aug 09 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP10	-	-	92	-	-
1979-Y430	2444096.08	1979 Aug 10 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y431	2444096.08	1979 Aug 10 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP11	-	-	85	-	-
1979-Y432	2444096.08	1979 Aug 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1979-W992	2444099.08	1979 Aug 13 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP4	-	-	78	-	-
1979-Y433	2444100.12	1979 Aug 14 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y434	2444100.44	1979 Aug 14 2230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y435	2444100.58	1979 Aug 15 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y436	2444101.08	1979 Aug 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y440	2444103.00	1979 Aug 17 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1979-Y441	2444103.08	1979 Aug 17 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP3	-	-	87	-	-
1979-Y442	2444106.08	1979 Aug 20 1400:00	M-100	-	-	-	-	-	KORO	GMS79C	LP1	-	-	82	-	-
1979-Y443	2444106.08	1979 Aug 20 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP12	-	-	85	-	-
1979-Y444	2444107.58	1979 Aug 22 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1979-Y445	2444107.69	1979 Aug 22 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y446	2444108.08	1979 Aug 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y447	2444108.08	1979 Aug 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1979-Y448	2444109.04	1979 Aug 23 1300:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP13	-	-	87	-	-
1979-Y449	2444109.08	1979 Aug 23 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP13	-	-	85	-	-
1979-Y450	2444110.08	1979 Aug 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1979-Y451	2444111.00	1979 Aug 25 1200:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP14	-	-	86	-	-
1979-Y452	2444114.00	1979 Aug 28 1200:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP2	-	-	85	-	-
1979-Y453	2444114.08	1979 Aug 28 1400:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP2	-	-	85	-	-
1979-Y454	2444114.52	1979 Aug 29 0030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y455	2444114.58	1979 Aug 29 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y456	2444115.08	1979 Aug 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y459	2444115.12	1979 Aug 29 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1979-W1050	2444116.00	1979 Aug 30 1200:00	M-100	-	-	-	-	-	SHOK	GMS79F	LP15	-	-	75	-	-
1979-Y461	2444121.40	1979 Sep 04 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y462	2444121.58	1979 Sep 05 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y465	2444122.19	1979 Sep 05 1630:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1979-Y466	2444123.00	1979 Sep 06 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1979-Y468	2444127.22	1979 Sep 10 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y469	2444128.40	1979 Sep 11 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y470	2444128.58	1979 Sep 12 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y471	2444129.08	1979 Sep 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1979-Y474	2444129.12	1979 Sep 12 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1979-Y478	2444131.10	1979 Sep 14 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1979-Y479	2444136.08	1979 Sep 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y480	2444136.08	1979 Sep 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1979-Y481	2444136.17	1979 Sep 19 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y484	2444142.45	1979 Sep 25 2250:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1979-Y485	2444142.58	1979 Sep 26 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-W1146	2444143.08	1979 Sep 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1979-Y489	2444149.45	1979 Oct 02 2245:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y490	2444149.58	1979 Oct 03 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1979-Y492	2444150.21	1979 Oct 03 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y493	2444156.46	1979 Oct 09 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y494	2444156.58	1979 Oct 10 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y496	2444157.12	1979 Oct 10 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-Y497	2444163.58	1979 Oct 17 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y498	2444164.08	1979 Oct 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y499	2444164.31	1979 Oct 17 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1979-Y503	2444170.43	1979 Oct 23 2220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1979-Y504	2444170.58	1979 Oct 24 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y505	2444171.08	1979 Oct 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y508	2444177.40	1979 Oct 30 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1979-Y509	2444177.58	1979 Oct 31 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y510	2444178.08	1979 Oct 31 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y514	2444179.58	1979 Nov 02 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y515	2444179.68	1979 Nov 02 0420:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y517	2444180.17	1979 Nov 02 1600:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP1	-	-	86	-	-
1979-Y520	2444183.12	1979 Nov 05 1500:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP2	-	-	82	-	-
1979-Y521	2444183.17	1979 Nov 05 1600:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP2	-	-	81	-	-
1979-Y522	2444183.40	1979 Nov 05 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-Y523	2444184.69	1979 Nov 07 0440:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y524	2444185.08	1979 Nov 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1979-Y526	2444186.21	1979 Nov 08 1700:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP3	-	-	81	-	-
1979-Y528	2444187.35	1979 Nov 09 2025:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y529	2444189.08	1979 Nov 11 1400:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	86	-	-
1979-Y530	2444189.12	1979 Nov 11 1500:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	85	-	-
1979-Y531	2444189.19	1979 Nov 11 1630:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	84	-	-
1979-Y532	2444189.21	1979 Nov 11 1700:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	86	-	-
1979-Y533	2444190.12	1979 Nov 12 1500:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	80	-	-
1979-Y534	2444190.17	1979 Nov 12 1600:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	85	-	-
1979-W1329	2444190.25	1979 Nov 12 1800:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	77	-	-
1979-Y535	2444191.08	1979 Nov 13 1400:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	82	-	-
1979-Y536	2444191.19	1979 Nov 13 1630:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	88	-	-
1979-Y537	2444191.24	1979 Nov 13 1740:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	85	-	-
1979-Y538	2444191.58	1979 Nov 14 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y539	2444192.08	1979 Nov 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-W1335	2444192.08	1979 Nov 14 1400:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	79	-	-
1979-Y540	2444192.15	1979 Nov 14 1540:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	82	-	-
1979-Y541	2444192.21	1979 Nov 14 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1979-Y543	2444192.29	1979 Nov 14 1900:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	81	-	-
1979-W1340	2444192.38	1979 Nov 14 2100:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	74	-	-
1979-W1342	2444193.33	1979 Nov 15 2000:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	79	-	-
1979-Y544	2444193.38	1979 Nov 15 2100:00	M-100	-	-	-	-	-	SHOK	NER	-	-	-	80	-	-
1979-Y545	2444193.58	1979 Nov 16 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1979-Y547	2444198.48	1979 Nov 20 2330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1979-Y548	2444198.58	1979 Nov 21 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1979-Y549	2444199.08	1979 Nov 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y552	2444200.58	1979 Nov 23 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1979-Y553	2444205.08	1979 Nov 27 1400:00	M-100	-	-	-	-	-	KORO	GMS79J	LP1	-	-	81	-	-
1979-Y554	2444205.12	1979 Nov 27 1500:00	M-100	-	-	-	-	-	KORO	GMS79J	LP1	-	-	82	-	-
1979-Y556	2444205.58	1979 Nov 28 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y557	2444206.08	1979 Nov 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1979-Y558	2444206.08	1979 Nov 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	91	-	-
1979-Y560	2444206.19	1979 Nov 28 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y562	2444207.08	1979 Nov 29 1400:00	M-100	-	-	-	-	-	KORO	GMS79J	LP2	-	-	84	-	-
1979-Y563	2444207.12	1979 Nov 29 1500:00	M-100	-	-	-	-	-	KORO	GMS79J	LP2	-	-	85	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-Y565	2444207.58	1979 Nov 30 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1979-Y566	2444208.08	1979 Nov 30 1400:00	M-100	-	-	-	-	-	KORO	GMS79J	LP3	-	-	82	-	-
1979-Y567	2444212.08	1979 Dec 04 1400:00	M-100	-	-	-	-	-	KORO	GMS79J	LP4	-	-	82	-	-
1979-Y569	2444212.58	1979 Dec 05 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y570	2444213.08	1979 Dec 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1979-Y571	2444213.22	1979 Dec 05 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y574	2444214.08	1979 Dec 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1979-Y576	2444214.58	1979 Dec 07 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1979-Y579	2444219.67	1979 Dec 12 0400:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y580	2444219.99	1979 Dec 12 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1979-Y581	2444220.10	1979 Dec 12 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1979-Y582	2444220.12	1979 Dec 12 1500:00	M-100	-	-	-	-	-	KORO	GMS79J	LP5	-	-	85	-	-
1979-W1408	2444220.19	1979 Dec 12 1630:00	M-100	-	-	-	-	-	KORO	GMS79J	LP5	-	-	76	-	-
1979-Y583	2444220.21	1979 Dec 12 1700:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	85	-	-
1979-Y584	2444220.33	1979 Dec 12 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1979-Y586	2444221.58	1979 Dec 14 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1979-Y587	2444222.08	1979 Dec 14 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1979-Y589	2444226.62	1979 Dec 19 0250:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1979-Y590	2444227.08	1979 Dec 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1979-Y591	2444227.12	1979 Dec 19 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1979-Y592	2444227.19	1979 Dec 19 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y594	2444227.29	1979 Dec 19 1900:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	83	-	-
1979-Y595	2444227.31	1979 Dec 19 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1979-Y598	2444228.59	1979 Dec 21 0215:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1979-W1448	2444231.92	1979 Dec 24 1000:00	M-100	-	-	-	-	-	SHOK	OJP	-	-	-	69	-	-
1979-Y599	2444233.58	1979 Dec 26 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1979-Y600	2444234.08	1979 Dec 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1979-Y601	2444234.08	1979 Dec 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1979-Y603	2444234.22	1979 Dec 26 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1979-Y604	2444235.60	1979 Dec 28 0220:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1979-Y605	2444236.08	1979 Dec 28 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y02	2444240.08	1980 Jan 01 1400:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP4	-	-	84	-	-
1980-Y03	2444240.96	1980 Jan 02 1100:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y04	2444241.08	1980 Jan 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y05	2444241.15	1980 Jan 02 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y07	2444241.31	1980 Jan 02 1930:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y08	2444241.79	1980 Jan 03 0700:00	M-100	-	-	-	-	-	KORO	GMS79J	LP6	-	-	84	-	-
1980-Y09	2444241.83	1980 Jan 03 0800:00	M-100	-	-	-	-	-	KORO	GMS79J	LP6	-	-	83	-	-
1980-Y10	2444242.60	1980 Jan 04 0230:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y11	2444243.08	1980 Jan 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y12	2444243.12	1980 Jan 04 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1980-W16	2444243.96	1980 Jan 05 1100:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP5	-	-	76	-	-
1980-Y14	2444244.00	1980 Jan 05 1200:00	M-100	-	-	-	-	-	SHOK	GMS79H	LP5	-	-	85	-	-
1980-Y15	2444245.67	1980 Jan 07 0400:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y16	2444246.08	1980 Jan 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y17	2444246.12	1980 Jan 07 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y19	2444247.62	1980 Jan 09 0300:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1980-Y20	2444248.08	1980 Jan 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1980-Y21	2444248.08	1980 Jan 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1980-Y22	2444248.12	1980 Jan 09 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1980-Y23	2444249.58	1980 Jan 11 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-Y24	2444250.08	1980 Jan 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y25	2444250.12	1980 Jan 11 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y26	2444252.58	1980 Jan 14 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y27	2444253.12	1980 Jan 14 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1980-Y28	2444253.12	1980 Jan 14 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y29	2444255.08	1980 Jan 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1980-Y30	2444255.10	1980 Jan 16 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-W58	2444255.17	1980 Jan 16 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1980-Y32	2444255.29	1980 Jan 16 1900:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y34	2444256.58	1980 Jan 18 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y37	2444257.08	1980 Jan 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-W67	2444257.17	1980 Jan 18 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1980-Y38	2444259.58	1980 Jan 21 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y39	2444259.79	1980 Jan 21 0700:00	M-100	-	-	-	-	-	KORO	GMS79J	LP7	-	-	84	-	-
1980-Y40	2444259.83	1980 Jan 21 0800:00	M-100	-	-	-	-	-	KORO	GMS79J	LP7	-	-	84	-	-
1980-Y41	2444260.08	1980 Jan 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y42	2444260.12	1980 Jan 21 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1980-W76	2444261.62	1980 Jan 23 0250:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1980-Y46	2444261.83	1980 Jan 23 0800:00	M-100	-	-	-	-	-	KORO	GMS79J	LP8	-	-	85	-	-
1980-Y47	2444262.08	1980 Jan 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1980-Y48	2444262.08	1980 Jan 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y49	2444262.17	1980 Jan 23 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1980-Y50	2444263.58	1980 Jan 25 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y51	2444264.12	1980 Jan 25 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y52	2444264.15	1980 Jan 25 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1980-Y53	2444266.58	1980 Jan 28 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1980-Y54	2444267.08	1980 Jan 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y55	2444267.12	1980 Jan 28 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1980-Y57	2444268.58	1980 Jan 30 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y58	2444269.08	1980 Jan 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y59	2444269.08	1980 Jan 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y61	2444269.21	1980 Jan 30 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y62	2444270.58	1980 Feb 01 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1980-Y63	2444270.71	1980 Feb 01 0500:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1980-Y64	2444273.58	1980 Feb 04 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-Y67	2444275.60	1980 Feb 06 0230:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y68	2444276.08	1980 Feb 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1980-Y69	2444276.10	1980 Feb 06 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1980-Y71	2444276.19	1980 Feb 06 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y72	2444277.08	1980 Feb 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y73	2444277.58	1980 Feb 08 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y75	2444280.58	1980 Feb 11 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y76	2444282.58	1980 Feb 13 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-Y77	2444282.83	1980 Feb 13 0800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y78	2444283.08	1980 Feb 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1980-Y79	2444283.21	1980 Feb 13 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y82	2444284.58	1980 Feb 15 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y84	2444285.25	1980 Feb 15 1800:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y85	2444285.81	1980 Feb 16 0723:00	M-100	-	ISRO 8.506	Met	-	-	-	TERLS	-	-	-	84	-	-
1980-Y87	2444285.96	1980 Feb 16 1105:00	M-100	-	ISRO 8.507	Met	-	-	-	TERLS	-	-	-	86	-	-
1980-Y88	2444289.62	1980 Feb 20 0300:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y89	2444290.08	1980 Feb 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1980-Y91	2444290.17	1980 Feb 20 1600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1980-Y92	2444290.19	1980 Feb 20 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1980-Y93	2444291.60	1980 Feb 22 0225:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1980-Y94	2444295.08	1980 Feb 25 1400:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	87	-	-
1980-Y95	2444295.08	1980 Feb 25 1400:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	81	-	-
1980-Y96	2444295.12	1980 Feb 25 1500:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	83	-	-
1980-Y97	2444295.12	1980 Feb 25 1500:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y98	2444295.19	1980 Feb 25 1630:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	86	-	-
1980-Y99	2444295.19	1980 Feb 25 1630:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y100	2444295.24	1980 Feb 25 1750:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	83	-	-
1980-Y101	2444295.25	1980 Feb 25 1800:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1980-Y104	2444296.10	1980 Feb 26 1430:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	89	-	-
1980-Y105	2444296.11	1980 Feb 26 1440:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	80	-	-
1980-Y106	2444296.17	1980 Feb 26 1600:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	82	-	-
1980-Y107	2444296.17	1980 Feb 26 1600:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	87	-	-
1980-Y108	2444296.23	1980 Feb 26 1730:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	89	-	-
1980-Y109	2444296.23	1980 Feb 26 1730:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	85	-	-
1980-Y110	2444296.27	1980 Feb 26 1830:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	86	-	-
1980-Y111	2444296.28	1980 Feb 26 1840:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	82	-	-
1980-Y112	2444296.69	1980 Feb 27 0430:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y113	2444297.01	1980 Feb 27 1210:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	84	-	-
1980-Y114	2444297.08	1980 Feb 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y115	2444297.10	1980 Feb 27 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y116	2444297.11	1980 Feb 27 1440:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	86	-	-
1980-Y117	2444297.12	1980 Feb 27 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y118	2444297.15	1980 Feb 27 1530:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	84	-	-
1980-Y119	2444297.15	1980 Feb 27 1540:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y120	2444297.23	1980 Feb 27 1730:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	82	-	-
1980-Y121	2444298.04	1980 Feb 28 1300:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	86	-	-
1980-Y122	2444298.08	1980 Feb 28 1400:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	88	-	-
1980-Y123	2444298.10	1980 Feb 28 1420:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y124	2444298.15	1980 Feb 28 1530:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	83	-	-
1980-Y125	2444298.15	1980 Feb 28 1540:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	85	-	-
1980-Y126	2444298.21	1980 Feb 28 1700:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y127	2444298.26	1980 Feb 28 1820:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1980-W203	2444298.58	1980 Feb 29 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1980-Y129	2444298.96	1980 Feb 29 1100:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	83	-	-
1980-Y130	2444298.96	1980 Feb 29 1100:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	87	-	-
1980-Y131	2444299.00	1980 Feb 29 1200:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	88	-	-
1980-Y132	2444299.06	1980 Feb 29 1330:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	84	-	-
1980-Y133	2444299.07	1980 Feb 29 1340:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1980-Y134	2444299.08	1980 Feb 29 1400:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1980-Y135	2444299.12	1980 Feb 29 1500:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1980-Y137	2444299.16	1980 Feb 29 1550:00	M-100	-	-	-	-	-	KORO	OJP	-	-	-	85	-	-
1980-Y138	2444303.67	1980 Mar 05 0400:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y139	2444304.00	1980 Mar 05 1200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y140	2444304.08	1980 Mar 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y141	2444304.17	1980 Mar 05 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y143	2444305.08	1980 Mar 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1980-Y144	2444305.62	1980 Mar 07 0300:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-Y145	2444306.21	1980 Mar 07 1700:00	M-100	-	-	-	-	-	SHIR	GMS80B	LP1	-	-	84	-	-
1980-Y147	2444310.58	1980 Mar 12 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-W250	2444311.08	1980 Mar 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	66	-	-
1980-Y148	2444311.08	1980 Mar 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y152	2444317.62	1980 Mar 19 0300:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y153	2444318.08	1980 Mar 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1980-Y154	2444318.08	1980 Mar 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1980-Y155	2444318.17	1980 Mar 19 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y156	2444318.21	1980 Mar 19 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1980-Y158	2444318.32	1980 Mar 19 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y160	2444320.08	1980 Mar 21 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y161	2444320.15	1980 Mar 21 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1980-Y162	2444322.12	1980 Mar 23 1500:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	83	-	-
1980-Y164	2444324.58	1980 Mar 26 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y165	2444325.08	1980 Mar 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y166	2444325.10	1980 Mar 26 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1980-W309	2444325.14	1980 Mar 26 1520:00	M-100	-	-	-	-	-	SHIR	GMS80B	LP2	-	-	79	-	-
1980-Y167	2444325.28	1980 Mar 26 1840:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y169	2444325.33	1980 Mar 26 1950:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-Y170	2444325.38	1980 Mar 26 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y174	2444328.17	1980 Mar 29 1600:00	M-100	-	-	-	-	-	SHIR	GMS80B	LP3	-	-	84	-	-
1980-Y175	2444329.10	1980 Mar 30 1420:00	M-100	-	-	-	-	-	SHIR	GMS80B	LP4	-	-	81	-	-
1980-Y178	2444331.58	1980 Apr 02 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y179	2444332.00	1980 Apr 02 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y180	2444332.08	1980 Apr 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y181	2444332.21	1980 Apr 02 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y183	2444338.58	1980 Apr 09 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y184	2444338.60	1980 Apr 09 0220:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y185	2444338.75	1980 Apr 09 0600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y186	2444338.92	1980 Apr 09 1000:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y187	2444339.08	1980 Apr 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y188	2444339.10	1980 Apr 09 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y189	2444339.21	1980 Apr 09 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y190	2444339.25	1980 Apr 09 1800:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y192	2444339.29	1980 Apr 09 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y193	2444339.38	1980 Apr 09 2100:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y194	2444339.58	1980 Apr 10 0200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y195	2444339.75	1980 Apr 10 0600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y196	2444339.92	1980 Apr 10 1004:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y197	2444340.08	1980 Apr 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y198	2444340.25	1980 Apr 10 1800:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y199	2444340.38	1980 Apr 10 2100:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y200	2444340.58	1980 Apr 11 0200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y201	2444340.75	1980 Apr 11 0600:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y203	2444345.60	1980 Apr 16 0220:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y204	2444346.17	1980 Apr 16 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1980-Y205	2444346.21	1980 Apr 16 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1980-Y206	2444352.46	1980 Apr 22 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y207	2444352.58	1980 Apr 23 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y208	2444353.08	1980 Apr 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y209	2444353.08	1980 Apr 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y211	2444356.12	1980 Apr 26 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85?	-	-
1980-Y212	2444359.08	1980 Apr 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y213	2444359.17	1980 Apr 29 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1980-Y214	2444359.17	1980 Apr 29 1600:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	82	-	-
1980-Y215	2444359.23	1980 Apr 29 1730:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-
1980-Y216	2444359.38	1980 Apr 29 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1980-Y217	2444359.58	1980 Apr 30 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y218	2444359.58	1980 Apr 30 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-Y219	2444359.69	1980 Apr 30 0440:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y220	2444360.08	1980 Apr 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1980-Y222	2444360.12	1980 Apr 30 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1980-Y223	2444361.00	1980 May 01 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP1	-	-	90	-	-
1980-Y224	2444361.19	1980 May 01 1630:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP2	-	-	81	-	-
1980-Y226	2444362.08	1980 May 02 1400:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1980-Y227	2444363.12	1980 May 03 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1980-Y228	2444365.12	1980 May 05 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1980-Y229	2444366.00	1980 May 06 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP2	-	-	94	-	-
1980-Y230	2444366.17	1980 May 06 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1980-Y231	2444366.38	1980 May 06 2100:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP3	-	-	84	-	-
1980-Y232	2444366.42	1980 May 06 2210:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP3	-	-	82	-	-
1980-Y233	2444366.58	1980 May 07 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y234	2444366.99	1980 May 07 1140:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y235	2444367.00	1980 May 07 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP2	-	-	89	-	-
1980-Y236	2444367.08	1980 May 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y237	2444367.12	1980 May 07 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1980-Y238	2444367.21	1980 May 07 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y241	2444367.40	1980 May 07 2140:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP4	-	-	84	-	-
1980-Y242	2444368.44	1980 May 08 2240:00	M-100	-	-	-	-	-	SHIR	IOLZ	IOCOR	-	-	83	-	-
1980-Y243	2444369.17	1980 May 09 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1980-Y245	2444369.42	1980 May 09 2210:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP6	-	-	83	-	-
1980-Y246	2444370.12	1980 May 10 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1980-Y247	2444372.12	1980 May 12 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1980-Y248	2444373.12	1980 May 13 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1980-Y249	2444373.58	1980 May 14 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y250	2444374.08	1980 May 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1980-Y251	2444374.08	1980 May 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y252	2444374.12	1980 May 14 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1980-Y253	2444374.21	1980 May 14 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y257	2444376.12	1980 May 16 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1980-Y258	2444377.12	1980 May 17 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1980-Y259	2444379.12	1980 May 19 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1980-Y260	2444379.40	1980 May 19 2130:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP7	-	-	86	-	-
1980-Y261	2444380.00	1980 May 20 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP3	-	-	91	-	-
1980-Y263	2444380.12	1980 May 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	80	-	-
1980-Y264	2444380.12	1980 May 20 1500:00	M-100	-	-	-	-	-	KORO	GMS80E	LP3	-	-	91	-	-
1980-Y265	2444380.40	1980 May 20 2130:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP8	-	-	85	-	-
1980-Y266	2444380.60	1980 May 21 0220:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1980-Y267	2444381.08	1980 May 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y268	2444381.12	1980 May 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	88	-	-
1980-Y269	2444381.17	1980 May 21 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1980-Y270	2444381.21	1980 May 21 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y271	2444381.40	1980 May 21 2130:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP9	-	-	85	-	-
1980-Y272	2444382.44	1980 May 22 2240:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP10	-	-	82	-	-
1980-Y273	2444383.12	1980 May 23 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W512	2444383.39	1980 May 23 2120:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP11	-	-	79	-	-
1980-Y274	2444384.35	1980 May 24 2030:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP12	-	-	82	-	-
1980-Y275	2444385.33	1980 May 25 2000:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP13	-	-	82	-	-
1980-Y276	2444386.00	1980 May 26 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP4	-	-	85	-	-
1980-Y277	2444386.04	1980 May 26 1300:00	M-100	-	-	-	-	-	KORO	GMS80E	LP4	-	-	84	-	-
1980-Y278	2444386.31	1980 May 26 1930:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP14	-	-	83	-	-
1980-Y281	2444387.25	1980 May 27 1800:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP15	-	-	84	-	-
1980-W517	2444387.31	1980 May 27 1920:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP15	-	-	79	-	-
1980-W520	2444387.61	1980 May 28 0240:00	M-100	-	-	-	-	-	-	OK	-	-	-	75	-	-
1980-Y282	2444388.00	1980 May 28 1200:00	M-100	-	-	-	-	-	KORO	GMS80E	LP5	-	-	82	-	-
1980-Y283	2444388.04	1980 May 28 1300:00	M-100	-	-	-	-	-	KORO	GMS80E	LP5	-	-	88	-	-
1980-Y284	2444388.08	1980 May 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y285	2444388.08	1980 May 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y287	2444388.32	1980 May 28 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1980-Y290	2444390.29	1980 May 30 1900:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP16	-	-	83	-	-
1980-Y291	2444392.23	1980 Jun 01 1730:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP17	-	-	84	-	-
1980-Y293	2444394.04	1980 Jun 03 1300:00	M-100	-	-	-	-	-	KORO	GMS80E	LP6	-	-	84	-	-
1980-Y294	2444394.08	1980 Jun 03 1400:00	M-100	-	-	-	-	-	KORO	GMS80E	LP6	-	-	81	-	-
1980-Y295	2444394.58	1980 Jun 04 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y296	2444395.00	1980 Jun 04 1200:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y297	2444395.08	1980 Jun 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y298	2444395.21	1980 Jun 04 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y299	2444395.27	1980 Jun 04 1830:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP18	-	-	85	-	-
1980-Y300	2444396.33	1980 Jun 05 2000:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP19	-	-	84	-	-
1980-Y302	2444397.08	1980 Jun 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y303	2444397.39	1980 Jun 06 2120:00	M-100	-	-	-	-	-	SHIR	GMS80F	LP20	-	-	85	-	-
1980-Y304	2444401.58	1980 Jun 11 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1980-Y305	2444402.08	1980 Jun 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y308	2444402.33	1980 Jun 11 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1980-Y310	2444403.08	1980 Jun 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y311	2444404.08	1980 Jun 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1980-Y312	2444408.64	1980 Jun 18 0320:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y313	2444409.08	1980 Jun 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y315	2444409.21	1980 Jun 18 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y316	2444410.08	1980 Jun 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y318	2444411.08	1980 Jun 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y319	2444415.46	1980 Jun 24 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1980-Y320	2444415.58	1980 Jun 25 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1980-Y321	2444415.59	1980 Jun 25 0210:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y323	2444416.17	1980 Jun 25 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1980-Y324	2444417.08	1980 Jun 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y326	2444418.08	1980 Jun 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1980-Y327	2444422.58	1980 Jul 02 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y328	2444423.08	1980 Jul 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y330	2444423.31	1980 Jul 02 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1980-Y331	2444425.12	1980 Jul 04 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y332	2444428.08	1980 Jul 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y333	2444429.58	1980 Jul 09 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y334	2444430.08	1980 Jul 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y336	2444430.12	1980 Jul 09 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y337	2444430.23	1980 Jul 09 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y338	2444430.31	1980 Jul 09 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1980-Y339	2444432.08	1980 Jul 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y340	2444433.08	1980 Jul 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1980-Y341	2444435.08	1980 Jul 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y342	2444437.08	1980 Jul 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1980-W685	2444437.08	1980 Jul 16 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	79	-	-
1980-Y343	2444437.08	1980 Jul 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y345	2444437.35	1980 Jul 16 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y346	2444439.08	1980 Jul 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1980-Y347	2444439.17	1980 Jul 18 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1980-Y348	2444443.58	1980 Jul 23 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-Y349	2444444.08	1980 Jul 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y350	2444444.08	1980 Jul 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y352	2444444.21	1980 Jul 23 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y355	2444444.35	1980 Jul 23 2020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y356	2444446.08	1980 Jul 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1980-W724	2444450.58	1980 Jul 30 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	67	-	-
1980-Y358	2444451.08	1980 Jul 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y359	2444451.10	1980 Jul 30 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y360	2444451.21	1980 Jul 30 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1980-Y363	2444451.31	1980 Jul 30 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1980-W743	2444457.56	1980 Aug 06 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1980-Y364	2444457.58	1980 Aug 06 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y365	2444457.62	1980 Aug 06 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y367	2444458.21	1980 Aug 06 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y369	2444464.58	1980 Aug 13 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1980-Y370	2444465.08	1980 Aug 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1980-Y371	2444465.08	1980 Aug 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y372	2444465.25	1980 Aug 13 1800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y373	2444465.31	1980 Aug 13 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y377	2444467.99	1980 Aug 16 1150:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y378	2444471.40	1980 Aug 19 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y379	2444471.60	1980 Aug 20 0220:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y380	2444472.08	1980 Aug 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1980-Y381	2444472.08	1980 Aug 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-Y384	2444478.33	1980 Aug 26 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-W808	2444478.46	1980 Aug 26 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1980-Y386	2444478.59	1980 Aug 27 0210:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y388	2444479.08	1980 Aug 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y389	2444479.08	1980 Aug 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y391	2444485.72	1980 Sep 03 0520:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y392	2444486.01	1980 Sep 03 1215:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y394	2444486.08	1980 Sep 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y395	2444486.17	1980 Sep 03 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y398	2444486.33	1980 Sep 03 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y399	2444492.38	1980 Sep 09 2110:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y400	2444492.60	1980 Sep 10 0220:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y401	2444493.08	1980 Sep 10 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y402	2444493.08	1980 Sep 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y405	2444500.08	1980 Sep 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y406	2444500.08	1980 Sep 17 1400:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y407	2444500.08	1980 Sep 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y409	2444500.17	1980 Sep 17 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1980-Y411	2444500.22	1980 Sep 17 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y413	2444506.58	1980 Sep 24 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y512	2444506.90	1980 Sep 24 0930	M-100	-	Ozone M-08-554	ISRO-8.554	-	-	-	TERLS	-	-	-	81?	-	-
1980-Y414	2444507.08	1980 Sep 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y415	2444507.08	1980 Sep 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1980-Y416	2444507.20	1980 Sep 24 1650:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y513	2444507.40	1980 Sep 24 2130	M-100	-	Ozone M-08-556	ISRO-8.556	-	-	-	TERLS	-	-	-	81?	-	-
1980-Y418	2444513.58	1980 Oct 01 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y420	2444514.08	1980 Oct 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1980-W923	2444514.08	1980 Oct 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1980-Y422	2444514.28	1980 Oct 01 1850:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y425	2444520.58	1980 Oct 08 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y426	2444521.08	1980 Oct 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y427	2444521.08	1980 Oct 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y428	2444521.20	1980 Oct 08 1650:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y434	2444527.58	1980 Oct 15 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y435	2444528.08	1980 Oct 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y436	2444528.08	1980 Oct 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1980-Y437	2444528.22	1980 Oct 15 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y438	2444528.33	1980 Oct 15 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y442	2444534.61	1980 Oct 22 0240:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1980-W985	2444535.08	1980 Oct 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1980-Y444	2444535.12	1980 Oct 22 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1980-W987	2444535.20	1980 Oct 22 1650:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1980-Y447	2444536.29	1980 Oct 23 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-Y449	2444541.58	1980 Oct 29 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1980-Y450	2444542.08	1980 Oct 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y451	2444542.08	1980 Oct 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1980-Y452	2444542.31	1980 Oct 29 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y453	2444542.69	1980 Oct 30 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y455	2444548.38	1980 Nov 04 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1980-Y456	2444548.40	1980 Nov 04 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1980-Y457	2444549.08	1980 Nov 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y458	2444549.08	1980 Nov 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1980-Y461	2444555.38	1980 Nov 11 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1980-W1036	2444556.08	1980 Nov 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	71	-	-
1980-Y463	2444556.12	1980 Nov 12 1450:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1980-Y464	2444556.19	1980 Nov 12 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1980-Y466	2444562.38	1980 Nov 18 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1980-Y467	2444562.92	1980 Nov 19 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1980-Y468	2444563.05	1980 Nov 19 1310:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y469	2444563.08	1980 Nov 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y472	2444564.08	1980 Nov 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y473	2444564.85	1980 Nov 21 0820:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1980-Y474	2444568.88	1980 Nov 25 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1980-Y475	2444569.38	1980 Nov 25 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1980-Y476	2444570.08	1980 Nov 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y477	2444570.08	1980 Nov 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y478	2444570.17	1980 Nov 26 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1980-Y480	2444576.58	1980 Dec 03 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1980-Y481	2444577.08	1980 Dec 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y482	2444577.09	1980 Dec 03 1410:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y483	2444577.21	1980 Dec 03 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y484	2444578.88	1980 Dec 05 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1980-W1103	2444583.38	1980 Dec 09 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	68	-	-
1980-Y486	2444584.04	1980 Dec 10 1300:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1980-Y487	2444584.10	1980 Dec 10 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1980-Y488	2444584.26	1980 Dec 10 1820:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1980-W1109	2444585.60	1980 Dec 12 0230:00	M-100	-	-	-	-	-	-	OK	-	-	-	70	-	-
1980-W1110	2444585.76	1980 Dec 12 0620:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1980-Y490	2444585.93	1980 Dec 12 1020:00	M-100	-	-	-	-	-	-	OK	-	-	-	96	-	-
1980-Y493	2444590.40	1980 Dec 16 2130:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1980-Y494	2444590.59	1980 Dec 17 0210:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1980-W1122	2444590.69	1980 Dec 17 0430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	69	-	-
1980-Y495	2444590.73	1980 Dec 17 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1980-W1123	2444590.92	1980 Dec 17 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1980-Y496	2444591.08	1980 Dec 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1980-Y497	2444591.08	1980 Dec 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W1130	2444592.48	1980 Dec 18 2330:00	M-100	-	-	-	-	-	-	OK	-	-	-	60	-	-
1980-Y501	2444597.33	1980 Dec 23 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1980-Y502	2444597.67	1980 Dec 24 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1980-Y503	2444598.08	1980 Dec 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	93	-	-
1980-Y504	2444598.08	1980 Dec 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1980-Y506	2444598.29	1980 Dec 24 1900:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1980-Y507	2444604.42	1980 Dec 30 2200:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1980-Y508	2444604.46	1980 Dec 30 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1980-Y510	2444604.58	1980 Dec 31 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1980-Y511	2444605.08	1980 Dec 31 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y01	2444606.33	1981 Jan 01 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-Y02	2444609.33	1981 Jan 04 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y03	2444610.17	1981 Jan 05 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y04	2444611.33	1981 Jan 06 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1981-Y05	2444612.08	1981 Jan 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-Y06	2444612.08	1981 Jan 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1981-Y07	2444612.17	1981 Jan 07 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1981-Y08	2444613.33	1981 Jan 08 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1981-Y09	2444614.17	1981 Jan 09 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y12	2444616.33	1981 Jan 11 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y13	2444617.17	1981 Jan 12 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y14	2444618.33	1981 Jan 13 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-Y15	2444618.58	1981 Jan 14 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-W12	2444618.69	1981 Jan 14 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1981-Y16	2444619.08	1981 Jan 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y17	2444619.08	1981 Jan 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1981-Y18	2444619.12	1981 Jan 14 1450:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y20	2444620.33	1981 Jan 15 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-Y21	2444621.12	1981 Jan 16 1450:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y22	2444623.33	1981 Jan 18 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-W21	2444624.17	1981 Jan 19 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1981-Y23	2444625.39	1981 Jan 20 2120:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-W25	2444625.69	1981 Jan 21 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1981-W28	2444626.07	1981 Jan 21 1340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1981-Y24	2444626.08	1981 Jan 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y25	2444626.08	1981 Jan 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-W29	2444626.12	1981 Jan 21 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	61	-	-
1981-Y27	2444627.33	1981 Jan 22 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-W35	2444628.12	1981 Jan 23 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1981-Y28	2444629.08	1981 Jan 24 1400:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP1	-	-	92	-	-
1981-Y29	2444630.36	1981 Jan 25 2040:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-W37	2444631.04	1981 Jan 26 1300:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP2	-	-	67	-	-
1981-Y30	2444631.17	1981 Jan 26 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y31	2444632.33	1981 Jan 27 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-Y32	2444632.71	1981 Jan 28 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y33	2444633.07	1981 Jan 28 1340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y34	2444633.08	1981 Jan 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1981-Y35	2444633.08	1981 Jan 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y37	2444633.42	1981 Jan 28 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y38	2444635.12	1981 Jan 30 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y39	2444635.42	1981 Jan 30 2200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-Y40	2444638.03	1981 Feb 02 1240:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP3	-	-	90	-	-
1981-Y41	2444639.04	1981 Feb 03 1300:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP4	-	-	90	-	-
1981-Y42	2444639.33	1981 Feb 03 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y43	2444640.08	1981 Feb 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y44	2444640.08	1981 Feb 04 1400:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP5	-	-	87	-	-
1981-W52	2444640.17	1981 Feb 04 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1981-Y46	2444641.33	1981 Feb 05 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y47	2444642.17	1981 Feb 06 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y48	2444646.04	1981 Feb 10 1300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y49	2444646.33	1981 Feb 10 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1981-Y50	2444647.06	1981 Feb 11 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y51	2444647.08	1981 Feb 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1981-Y52	2444647.08	1981 Feb 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1981-Y55	2444648.33	1981 Feb 12 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1981-Y56	2444649.21	1981 Feb 13 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-Y57	2444651.06	1981 Feb 15 1330:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP6	-	-	84	-	-
1981-Y58	2444653.06	1981 Feb 17 1330:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1981-Y59	2444653.11	1981 Feb 17 1440:00	M-100	-	-	-	-	-	SHIR	OJP	-	-	-	84	-	-
1981-W88	2444653.33	1981 Feb 17 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	72	-	-
1981-Y60	2444654.06	1981 Feb 18 1330:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP7	-	-	83	-	-
1981-Y61	2444654.08	1981 Feb 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y62	2444654.08	1981 Feb 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1981-Y63	2444654.11	1981 Feb 18 1440:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP7	-	-	83	-	-
1981-Y64	2444654.29	1981 Feb 18 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y65	2444655.33	1981 Feb 19 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y66	2444655.40	1981 Feb 19 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-Y69	2444657.12	1981 Feb 21 1500:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP8	-	-	80	-	-
1981-Y70	2444659.12	1981 Feb 23 1500:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP9	-	-	81	-	-
1981-Y71	2444660.08	1981 Feb 24 1350:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP10	-	-	87	-	-
1981-Y72	2444660.40	1981 Feb 24 2130:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y73	2444661.08	1981 Feb 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1981-Y74	2444661.09	1981 Feb 25 1407:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1981-Y76	2444661.12	1981 Feb 25 1500:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP11	-	-	90	-	-
1981-Y77	2444661.17	1981 Feb 25 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y78	2444661.21	1981 Feb 25 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-Y79	2444662.35	1981 Feb 26 2030:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y82	2444663.17	1981 Feb 27 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1981-Y84	2444665.53	1981 Mar 02 0040:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1981-W132	2444665.73	1981 Mar 02 0530:00	M-100	-	-	-	-	-	-	OK	-	-	-	63	-	-
1981-W139	2444667.24	1981 Mar 03 1740:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP12	-	-	77	-	-
1981-Y85	2444667.35	1981 Mar 03 2030:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y86	2444668.08	1981 Mar 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y87	2444668.08	1981 Mar 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1981-Y88	2444668.19	1981 Mar 04 1640:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP13	-	-	89	-	-
1981-Y89	2444668.21	1981 Mar 04 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1981-Y90	2444669.33	1981 Mar 05 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y92	2444670.40	1981 Mar 06 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y93	2444671.17	1981 Mar 07 1600:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP14	-	-	82	-	-
1981-W151	2444671.21	1981 Mar 07 1700:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP14	-	-	77	-	-
1981-Y94	2444674.33	1981 Mar 10 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1981-Y95	2444675.08	1981 Mar 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y96	2444675.08	1981 Mar 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y97	2444675.17	1981 Mar 11 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y98	2444676.59	1981 Mar 13 0210:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y99	2444677.17	1981 Mar 13 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-Y100	2444681.33	1981 Mar 17 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1981-Y101	2444682.08	1981 Mar 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1981-W176	2444682.08	1981 Mar 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	72	-	-
1981-Y102	2444682.17	1981 Mar 18 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1981-Y103	2444683.17	1981 Mar 19 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-W181	2444683.33	1981 Mar 19 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1981-Y104	2444683.80	1981 Mar 20 0710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y105	2444688.35	1981 Mar 24 2020:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y107	2444689.08	1981 Mar 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-Y108	2444689.08	1981 Mar 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y110	2444689.18	1981 Mar 25 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-W204	2444690.46	1981 Mar 26 2300:00	M-100	-	-	-	-	-	-	OK	-	-	-	72	-	-
1981-Y112	2444691.17	1981 Mar 27 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y113	2444692.17	1981 Mar 28 1600:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	83	-	-
1981-Y114	2444692.22	1981 Mar 28 1720:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	80	-	-
1981-Y115	2444692.27	1981 Mar 28 1830:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	84	-	-
1981-Y116	2444693.19	1981 Mar 29 1630:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	81	-	-
1981-Y117	2444693.24	1981 Mar 29 1740:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	87	-	-
1981-Y118	2444693.28	1981 Mar 29 1850:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	85	-	-
1981-Y120	2444694.18	1981 Mar 30 1620:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	87	-	-
1981-Y121	2444694.23	1981 Mar 30 1730:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	86	-	-
1981-Y122	2444694.27	1981 Mar 30 1833:00	M-100	-	-	-	-	-	SHIR	GMS81C	LP15	-	-	83	-	-
1981-Y123	2444695.39	1981 Mar 31 2120:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y125	2444696.08	1981 Apr 01 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y126	2444696.09	1981 Apr 01 1410:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y127	2444696.11	1981 Apr 01 1440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y130	2444700.85	1981 Apr 06 0820:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y131	2444700.94	1981 Apr 06 1040:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y132	2444701.80	1981 Apr 07 0710:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y133	2444702.35	1981 Apr 07 2030:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1981-W233	2444703.08	1981 Apr 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	70	-	-
1981-Y135	2444703.11	1981 Apr 08 1440:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-W274	2444709.33	1981 Apr 14 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	52	-	-
1981-Y147	2444710.08	1981 Apr 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y148	2444710.08	1981 Apr 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y150	2444710.21	1981 Apr 15 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1981-Y152	2444716.33	1981 Apr 21 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1981-Y153	2444716.56	1981 Apr 22 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y154	2444717.08	1981 Apr 22 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y155	2444717.08	1981 Apr 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1981-Y158	2444719.21	1981 Apr 24 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y159	2444723.33	1981 Apr 28 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y160	2444724.08	1981 Apr 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y161	2444724.08	1981 Apr 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y163	2444724.31	1981 Apr 29 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-Y164	2444727.27	1981 May 02 1830:00	M-100	-	-	-	-	-	KORO	GMS81E	LP1	-	-	85	-	-
1981-Y165	2444728.08	1981 May 03 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y166	2444729.33	1981 May 04 2000:00	M-100	-	-	-	-	-	KORO	GMS81E	LP2	-	-	84	-	-
1981-Y167	2444730.33	1981 May 05 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1981-Y168	2444731.08	1981 May 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1981-Y169	2444731.08	1981 May 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y171	2444734.27	1981 May 09 1835:00	M-100	-	-	-	-	-	KORO	GMS81E	LP3	-	-	84	-	-
1981-Y172	2444737.21	1981 May 12 1700:00	M-100	-	-	-	-	-	KORO	GMS81E	LP4	-	-	82	-	-
1981-W336	2444737.26	1981 May 12 1810:00	M-100	-	-	-	-	-	KORO	GMS81E	LP4	-	-	76	-	-
1981-Y173	2444737.33	1981 May 12 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1981-Y174	2444738.08	1981 May 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y175	2444738.08	1981 May 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y177	2444738.21	1981 May 13 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y179	2444739.25	1981 May 14 1800:00	M-100	-	-	-	-	-	KORO	GMS81E	LP5	-	-	88	-	-
1981-Y180	2444739.33	1981 May 14 2000:00	M-100	-	-	-	-	-	KORO	GMS81E	LP6	-	-	90	-	-
1981-Y181	2444740.08	1981 May 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1981-Y182	2444740.29	1981 May 15 1900:00	M-100	-	-	-	-	-	KORO	GMS81E	LP7	-	-	80	-	-
1981-Y183	2444742.12	1981 May 17 1500:00	M-100	-	-	-	-	-	KORO	GMS81E	LP8	-	-	92	-	-
1981-Y184	2444742.17	1981 May 17 1600:00	M-100	-	-	-	-	-	KORO	GMS81E	LP8	-	-	89	-	-
1981-W351	2444743.21	1981 May 18 1700:00	M-100	-	-	-	-	-	KORO	GMS81E	LP9	-	-	76	-	-
1981-W352	2444744.21	1981 May 19 1700:00	M-100	-	-	-	-	-	KORO	GMS81E	LP10	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-Y185	2444744.25	1981 May 19 1800:00	M-100	-	-	-	-	-	KORO	GMS81E	LP11	-	-	86	-	-
1981-Y186	2444744.33	1981 May 19 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1981-W357	2444745.08	1981 May 20 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1981-Y188	2444745.11	1981 May 20 1435:00	M-100	-	-	-	-	-	-	KER	-	-	-	85?	-	-
1981-Y189	2444745.19	1981 May 20 1630:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1981-Y190	2444745.21	1981 May 20 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y191	2444745.21	1981 May 20 1700:00	M-100	-	-	-	-	-	KORO	GMS81E	LP12	-	-	84	-	-
1981-Y192	2444745.25	1981 May 20 1800:00	M-100	-	-	-	-	-	KORO	GMS81E	LP12	-	-	86	-	-
1981-Y193	2444746.25	1981 May 21 1800:00	M-100	-	-	-	-	-	KORO	GMS81E	LP13	-	-	84	-	-
1981-Y194	2444746.61	1981 May 22 0245:00	M-100	-	-	-	-	-	-	KER	-	-	-	80	-	-
1981-Y195	2444747.19	1981 May 22 1630:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-W369	2444751.33	1981 May 26 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1981-Y197	2444752.08	1981 May 27 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-W375	2444752.08	1981 May 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	63	-	-
1981-W377	2444752.14	1981 May 27 1515:00	M-100	-	-	-	-	-	-	KER	-	-	-	75	-	-
1981-Y199	2444752.21	1981 May 27 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y201	2444754.08	1981 May 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1981-Y202	2444758.33	1981 Jun 02 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y203	2444759.08	1981 Jun 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y204	2444759.12	1981 Jun 03 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1981-Y206	2444759.21	1981 Jun 03 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y207	2444761.08	1981 Jun 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1981-Y209	2444764.08	1981 Jun 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y210	2444764.12	1981 Jun 08 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	89	-	-
1981-Y211	2444765.12	1981 Jun 09 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1981-Y212	2444765.33	1981 Jun 09 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y213	2444765.54	1981 Jun 10 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y214	2444765.64	1981 Jun 10 0315:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1981-Y216	2444766.08	1981 Jun 10 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1981-Y217	2444766.08	1981 Jun 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1981-Y218	2444766.12	1981 Jun 10 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	83	-	-
1981-Y219	2444766.15	1981 Jun 10 1530:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-Y220	2444767.12	1981 Jun 11 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1981-Y221	2444767.29	1981 Jun 11 1900:00	M-100	-	-	-	-	-	KORO	GMS81E	LP14	-	-	87	-	-
1981-Y222	2444768.08	1981 Jun 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1981-Y223	2444768.21	1981 Jun 12 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1981-Y224	2444768.29	1981 Jun 12 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IOCOR	-	-	82	-	-
1981-Y225	2444769.12	1981 Jun 13 1500:00	M-100	-	-	-	-	-	KORO	GMS81E	LP15	-	-	83	-	-
1981-Y226	2444770.33	1981 Jun 14 2000:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	86	-	-
1981-Y227	2444770.38	1981 Jun 14 2100:00	M-100	-	-	-	-	-	KORO	IOLZ	IO65	-	-	85	-	-
1981-Y228	2444771.08	1981 Jun 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y229	2444771.33	1981 Jun 15 2000:00	M-100	-	-	-	-	-	KORO	GMS81E	LP16	-	-	85	-	-
1981-Y230	2444772.38	1981 Jun 16 2100:00	M-100	-	-	-	-	-	KORO	GMS81E	LP17	-	-	82	-	-
1981-Y231	2444772.80	1981 Jun 17 0712:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y232	2444772.88	1981 Jun 17 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1981-Y233	2444772.93	1981 Jun 17 1020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	94	-	-
1981-Y234	2444773.04	1981 Jun 17 1300:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1981-Y236	2444773.08	1981 Jun 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1981-W424	2444773.08	1981 Jun 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1981-Y237	2444773.12	1981 Jun 17 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1981-Y239	2444773.46	1981 Jun 17 2300:00	M-100	-	-	-	-	-	KORO	GMS81E	LP18	-	-	84	-	-
1981-Y241	2444774.80	1981 Jun 19 0712:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y242	2444774.92	1981 Jun 19 1012:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y243	2444775.08	1981 Jun 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y244	2444777.29	1981 Jun 21 1900:00	M-100	-	-	-	-	-	KORO	IOLZ	IO70	-	-	87	-	-
1981-Y245	2444777.58	1981 Jun 22 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1981-Y247	2444778.86	1981 Jun 23 0840:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y248	2444779.08	1981 Jun 23 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1981-Y249	2444779.33	1981 Jun 23 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-W441	2444779.38	1981 Jun 23 2100:00	M-100	-	-	-	-	-	KORO	GMS81E	LP20	-	-	79	-	-
1981-Y250	2444780.08	1981 Jun 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-Y251	2444780.08	1981 Jun 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y252	2444780.12	1981 Jun 24 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1981-Y254	2444780.35	1981 Jun 24 2030:00	M-100	-	-	-	-	-	KORO	GMS81E	LP21	-	-	84	-	-
1981-Y255	2444781.08	1981 Jun 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-Y256	2444781.33	1981 Jun 25 2000:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	89	-	-
1981-Y257	2444781.38	1981 Jun 25 2100:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	85	-	-
1981-Y258	2444784.08	1981 Jun 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-Y259	2444786.34	1981 Jun 30 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1981-Y260	2444787.08	1981 Jul 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y261	2444787.21	1981 Jul 01 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y262	2444787.21	1981 Jul 01 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	85	-	-
1981-W464	2444787.58	1981 Jul 02 0200:00	M-100	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1981-Y265	2444789.08	1981 Jul 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y266	2444792.08	1981 Jul 06 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y267	2444793.33	1981 Jul 07 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-W473	2444793.58	1981 Jul 08 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1981-Y268	2444794.08	1981 Jul 08 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y269	2444794.08	1981 Jul 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y270	2444794.12	1981 Jul 08 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	81	-	-
1981-A18	2444796.08	1981 Jul 10 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	43	-	-
1981-Y272	2444799.08	1981 Jul 13 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y273	2444800.38	1981 Jul 14 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1981-Y274	2444801.08	1981 Jul 15 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y275	2444801.08	1981 Jul 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1981-Y276	2444801.12	1981 Jul 15 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-Y277	2444801.21	1981 Jul 15 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-W492	2444803.08	1981 Jul 17 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1981-Y279	2444806.12	1981 Jul 20 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	84	-	-
1981-Y280	2444807.12	1981 Jul 21 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	82	-	-
1981-Y281	2444807.33	1981 Jul 21 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y282	2444807.35	1981 Jul 21 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1981-Y283	2444808.08	1981 Jul 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1981-Y284	2444808.12	1981 Jul 22 1500:00	M-100	-	-	-	-	-	-	KER	-	-	-	87	-	-
1981-Y285	2444808.15	1981 Jul 22 1530:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y287	2444809.21	1981 Jul 23 1700:00	M-100	-	-	-	-	-	-	KER	-	-	-	83	-	-
1981-W509	2444810.08	1981 Jul 24 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1981-Y288	2444810.17	1981 Jul 24 1600:00	M-100	-	-	-	-	-	-	KER	-	-	-	86	-	-
1981-Y290	2444812.08	1981 Jul 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1981-Y291	2444814.33	1981 Jul 28 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1981-Y292	2444814.35	1981 Jul 28 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y293	2444814.42	1981 Jul 28 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-Y294	2444814.48	1981 Jul 28 2330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y295	2444815.08	1981 Jul 29 1400:00	M-100	-	-	-	-	-	-	KER	-	-	-	91	-	-
1981-Y296	2444815.08	1981 Jul 29 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1981-Y297	2444815.08	1981 Jul 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y298	2444816.35	1981 Jul 30 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-W523	2444817.08	1981 Jul 31 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1981-Y299	2444820.08	1981 Aug 03 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1981-Y300	2444820.81	1981 Aug 04 0720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y301	2444821.29	1981 Aug 04 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-Y302	2444821.33	1981 Aug 04 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y303	2444821.33	1981 Aug 04 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y304	2444821.42	1981 Aug 04 2200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y305	2444822.08	1981 Aug 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1981-Y306	2444822.08	1981 Aug 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y308	2444824.08	1981 Aug 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-Y310	2444828.33	1981 Aug 11 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-Y311	2444828.36	1981 Aug 11 2040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y312	2444829.08	1981 Aug 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y313	2444829.08	1981 Aug 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y318	2444835.33	1981 Aug 18 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	81	-	-
1981-Y319	2444835.35	1981 Aug 18 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y320	2444836.08	1981 Aug 19 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1981-Y321	2444836.08	1981 Aug 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1981-Y323	2444842.33	1981 Aug 25 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1981-Y324	2444842.35	1981 Aug 25 2030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1981-Y325	2444843.08	1981 Aug 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1981-Y326	2444843.08	1981 Aug 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1981-Y331	2444850.08	1981 Sep 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-W581	2444850.10	1981 Sep 02 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	66	-	-
1981-W582	2444850.17	1981 Sep 02 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1981-Y333	2444850.88	1981 Sep 03 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y334	2444850.98	1981 Sep 03 1130:00	M-100	-	-	-	-	-	-	OK	-	-	-	80	-	-
1981-Y336	2444856.36	1981 Sep 08 2035:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1981-Y337	2444857.08	1981 Sep 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1981-W597	2444857.08	1981 Sep 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	73	-	-
1981-Y338	2444857.21	1981 Sep 09 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-A26	2444863.33	1981 Sep 15 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	43	-	-
1981-Y339	2444863.40	1981 Sep 15 2130:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y340	2444864.08	1981 Sep 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y341	2444864.29	1981 Sep 16 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y342	2444864.33	1981 Sep 16 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1981-Y343	2444865.08	1981 Sep 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y345	2444870.10	1981 Sep 22 1420:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-W626	2444870.33	1981 Sep 22 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	64	-	-
1981-Y347	2444871.21	1981 Sep 23 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1981-Y348	2444871.23	1981 Sep 23 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y349	2444877.33	1981 Sep 29 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y351	2444878.08	1981 Sep 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1981-Y352	2444878.08	1981 Sep 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y353	2444878.21	1981 Sep 30 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y355	2444884.21	1981 Oct 06 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y356	2444884.33	1981 Oct 06 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y357	2444885.08	1981 Oct 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y358	2444885.08	1981 Oct 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y359	2444887.15	1981 Oct 09 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y360	2444891.34	1981 Oct 13 2015:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-Y361	2444892.08	1981 Oct 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-Y362	2444892.08	1981 Oct 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y364	2444892.15	1981 Oct 14 1540:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-Y365	2444892.21	1981 Oct 14 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1981-Y366	2444892.53	1981 Oct 15 0050:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y368	2444898.33	1981 Oct 20 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1981-Y369	2444898.40	1981 Oct 20 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1981-Y370	2444898.48	1981 Oct 20 2330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y371	2444898.52	1981 Oct 21 0030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y372	2444899.08	1981 Oct 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y373	2444899.12	1981 Oct 21 1450:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1981-Y376	2444905.33	1981 Oct 27 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y377	2444905.33	1981 Oct 27 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1981-Y378	2444905.40	1981 Oct 27 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W695	2444905.46	1981 Oct 27 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1981-Y379	2444906.08	1981 Oct 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y380	2444906.10	1981 Oct 28 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1981-Y382	2444911.08	1981 Nov 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y383	2444912.33	1981 Nov 03 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1981-Y384	2444912.51	1981 Nov 04 0010:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-Y385	2444913.08	1981 Nov 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1981-Y386	2444913.08	1981 Nov 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y387	2444913.33	1981 Nov 04 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1981-Y388	2444913.62	1981 Nov 05 0300:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y390	2444919.37	1981 Nov 10 2050:00	M-100	-	-	-	-	-	-	OK	-	-	-	94	-	-
1981-Y391	2444919.48	1981 Nov 10 2330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1981-Y392	2444919.89	1981 Nov 11 0920:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1981-Y393	2444920.08	1981 Nov 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1981-Y394	2444920.08	1981 Nov 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y395	2444920.40	1981 Nov 11 2135:00	M-100	-	Ozone M-08-621	ISRO-8.621	-	-	-	TERLS	-	-	-	82	-	-
1981-Y396	2444920.90	1981 Nov 12 0930:00	M-100	-	Ozone M-08-622	ISRO-8.622	-	-	-	TERLS	-	-	-	84	-	-
1981-Y407	2444925.15	1981 Nov 16 1540:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y408	2444926.40	1981 Nov 17 2130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y409	2444926.46	1981 Nov 17 2300:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y410	2444927.08	1981 Nov 18 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1981-Y411	2444927.08	1981 Nov 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y412	2444931.94	1981 Nov 23 1040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1981-Y413	2444932.08	1981 Nov 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1981-Y415	2444933.33	1981 Nov 24 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y416	2444934.08	1981 Nov 25 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1981-Y417	2444934.15	1981 Nov 25 1540:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1981-Y419	2444939.08	1981 Nov 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1981-Y450	2444938.50	1981 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1981-Y451	2444938.50	1981 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1981-Y452	2444938.50	1981 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1981-Y453	2444938.50	1981 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1981-Y420	2444940.33	1981 Dec 01 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y421	2444940.76	1981 Dec 02 0620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y422	2444941.08	1981 Dec 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1981-W785	2444942.33	1981 Dec 03 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	62	-	-
1981-Y424	2444942.71	1981 Dec 04 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1981-Y426	2444947.33	1981 Dec 08 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1981-Y429	2444947.96	1981 Dec 09 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-W795	2444948.08	1981 Dec 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1981-Y430	2444948.08	1981 Dec 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1981-Y431	2444948.17	1981 Dec 09 1600:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1981-W801	2444949.33	1981 Dec 10 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	59	-	-
1981-Y432	2444950.11	1981 Dec 11 1440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-Y434	2444954.33	1981 Dec 15 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1981-Y435	2444954.58	1981 Dec 16 0150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1981-W809	2444955.08	1981 Dec 16 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1981-Y438	2444956.33	1981 Dec 17 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1981-Y439	2444957.31	1981 Dec 18 1920:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1981-Y440	2444961.33	1981 Dec 22 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-Y441	2444962.08	1981 Dec 23 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y443	2444962.35	1981 Dec 23 2020:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1981-Y444	2444963.33	1981 Dec 24 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1981-Y445	2444964.29	1981 Dec 25 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1981-Y446	2444968.33	1981 Dec 29 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1981-Y447	2444969.08	1981 Dec 30 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1981-Y448	2444969.67	1981 Dec 31 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y01	2444971.34	1982 Jan 01 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y02	2444973.97	1982 Jan 04 1120:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y03	2444975.34	1982 Jan 05 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y04	2444975.66	1982 Jan 06 0345:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y05	2444976.10	1982 Jan 06 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1982-Y06	2444976.11	1982 Jan 06 1440:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-W11	2444977.34	1982 Jan 07 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	75	-	-
1982-Y09	2444982.34	1982 Jan 12 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y10	2444983.10	1982 Jan 13 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1982-Y13	2444983.50	1982 Jan 14 0000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y14	2444984.08	1982 Jan 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1982-Y15	2444984.34	1982 Jan 14 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y18	2444989.29	1982 Jan 19 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y19	2444989.34	1982 Jan 19 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y20	2444989.57	1982 Jan 20 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y22	2444989.79	1982 Jan 20 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1982-Y23	2444990.08	1982 Jan 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-W42	2444990.10	1982 Jan 20 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1982-Y24	2444991.34	1982 Jan 21 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1982-Y26	2444996.34	1982 Jan 26 2008:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1982-Y27	2444997.08	1982 Jan 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-W67	2444997.10	1982 Jan 27 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	56	-	-
1982-Y29	2444997.15	1982 Jan 27 1530:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1982-W72	2444998.34	1982 Jan 28 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	78	-	-
1982-Y30	2444998.65	1982 Jan 29 0330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y33	2445003.34	1982 Feb 02 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1982-Y34	2445003.64	1982 Feb 03 0325:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y35	2445004.08	1982 Feb 03 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-Y36	2445004.10	1982 Feb 03 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y38	2445005.34	1982 Feb 04 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1982-Y39	2445009.00	1982 Feb 08 1200:00	M-100	-	-	-	-	-	KORO	GMS82B	LP1	-	-	85	-	-
1982-Y40	2445010.34	1982 Feb 09 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-W103	2445011.00	1982 Feb 10 1200:00	M-100	-	-	-	-	-	KORO	GMS82B	LP2	-	-	79	-	-
1982-Y41	2445011.06	1982 Feb 10 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y42	2445011.08	1982 Feb 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y43	2445011.10	1982 Feb 10 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y44	2445011.12	1982 Feb 10 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y45	2445012.34	1982 Feb 11 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y46	2445017.34	1982 Feb 16 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y47	2445017.62	1982 Feb 17 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y48	2445018.08	1982 Feb 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-Y49	2445018.10	1982 Feb 17 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y50	2445019.00	1982 Feb 18 1200:00	M-100	-	-	-	-	-	KORO	GMS82B	LP3	-	-	86	-	-
1982-Y51	2445019.77	1982 Feb 19 0635:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y52	2445019.91	1982 Feb 19 0945:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1982-Y53	2445020.00	1982 Feb 19 1200:00	M-100	-	-	-	-	-	KORO	GMS82B	LP4	-	-	90	-	-
1982-Y54	2445024.38	1982 Feb 23 2105:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y55	2445024.62	1982 Feb 24 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y56	2445025.10	1982 Feb 24 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y57	2445025.12	1982 Feb 24 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-W147	2445026.34	1982 Feb 25 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	77	-	-
1982-Y63	2445031.34	1982 Mar 02 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y64	2445032.10	1982 Mar 03 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1982-Y65	2445032.12	1982 Mar 03 1500:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1982-Y67	2445032.29	1982 Mar 03 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y68	2445033.12	1982 Mar 04 1500:00	M-100	-	-	-	-	-	KORO	GMS82B	LP5	-	-	85	-	-
1982-Y69	2445033.34	1982 Mar 04 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y71	2445036.08	1982 Mar 07 1400:00	M-100	-	-	-	-	-	KORO	GMS82B	LP5	-	-	89	-	-
1982-W164	2445036.14	1982 Mar 07 1520:00	M-100	-	-	-	-	-	KORO	GMS82B	LP5	-	-	74	-	-
1982-Y73	2445038.34	1982 Mar 09 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y74	2445038.58	1982 Mar 10 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y75	2445039.08	1982 Mar 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1982-Y76	2445039.14	1982 Mar 10 1520:00	M-100	-	-	-	-	-	KORO	GMS82B	LP6	-	-	93	-	-
1982-Y78	2445039.28	1982 Mar 10 1850:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1982-Y79	2445040.34	1982 Mar 11 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-W174	2445041.21	1982 Mar 12 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP7	-	-	75	-	-
1982-Y80	2445041.27	1982 Mar 12 1825:00	M-100	-	-	-	-	-	KORO	GMS82B	LP8	-	-	91	-	-
1982-Y81	2445042.86	1982 Mar 14 0840:00	M-100	-	-	-	-	-	KORO	GMS82B	LP9	-	-	91	-	-
1982-Y82	2445044.21	1982 Mar 15 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP10	-	-	93	-	-
1982-Y84	2445045.21	1982 Mar 16 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP11	-	-	83	-	-
1982-Y85	2445045.34	1982 Mar 16 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1982-Y86	2445045.58	1982 Mar 17 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1982-Y87	2445046.10	1982 Mar 17 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y88	2445046.10	1982 Mar 17 1420:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y89	2445046.21	1982 Mar 17 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP12	-	-	87	-	-
1982-Y90	2445047.21	1982 Mar 18 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP13	-	-	88	-	-
1982-Y91	2445047.34	1982 Mar 18 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y92	2445048.25	1982 Mar 19 1800:00	M-100	-	-	-	-	-	KORO	GMS82B	LP14	-	-	91	-	-
1982-W189	2445049.29	1982 Mar 20 1900:00	M-100	-	-	-	-	-	KORO	GMS82B	LP15	-	-	74	-	-
1982-Y93	2445050.22	1982 Mar 21 1720:00	M-100	-	-	-	-	-	KORO	GMS82B	LP16	-	-	91	-	-
1982-Y96	2445051.33	1982 Mar 22 2000:00	M-100	-	-	-	-	-	KORO	GMS82B	LP17	-	-	89	-	-
1982-Y99	2445052.34	1982 Mar 23 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1982-Y100	2445052.58	1982 Mar 24 0150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y101	2445052.79	1982 Mar 24 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1982-Y102	2445052.94	1982 Mar 24 1040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y103	2445053.08	1982 Mar 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-W201	2445053.10	1982 Mar 24 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1982-Y106	2445054.23	1982 Mar 25 1725:00	M-100	-	-	-	-	-	KORO	GMS82B	LP18	-	-	88	-	-
1982-Y108	2445054.34	1982 Mar 25 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y111	2445056.17	1982 Mar 27 1600:00	M-100	-	-	-	-	-	KORO	GMS82B	LP19	-	-	85	-	-
1982-Y112	2445056.21	1982 Mar 27 1700:00	M-100	-	-	-	-	-	KORO	GMS82B	LP19	-	-	85	-	-
1982-Y114	2445057.19	1982 Mar 28 1630:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	90	-	-
1982-Y116	2445057.23	1982 Mar 28 1735:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	90	-	-
1982-Y118	2445058.17	1982 Mar 29 1600:00	M-100	-	-	-	-	-	KORO	GMS82B	LP20	-	-	89	-	-
1982-Y119	2445058.23	1982 Mar 29 1730:00	M-100	-	-	-	-	-	KORO	GMS82B	LP20	-	-	90	-	-
1982-Y127	2445059.34	1982 Mar 30 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1982-Y128	2445059.57	1982 Mar 31 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1982-W230	2445059.67	1982 Mar 31 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1982-Y129	2445060.08	1982 Mar 31 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y130	2445060.10	1982 Mar 31 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1982-Y132	2445066.33	1982 Apr 06 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y133	2445067.08	1982 Apr 07 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1982-Y134	2445067.08	1982 Apr 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-Y135	2445067.19	1982 Apr 07 1640:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y136	2445067.21	1982 Apr 07 1700:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1982-Y137	2445067.32	1982 Apr 07 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-W242	2445070.81	1982 Apr 11 0730:00	M-100	-	-	-	-	-	-	OK	-	-	-	63	-	-
1982-Y138	2445073.65	1982 Apr 14 0330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y139	2445074.08	1982 Apr 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y140	2445074.08	1982 Apr 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y142	2445078.83	1982 Apr 19 0800:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y143	2445078.88	1982 Apr 19 0900:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y145	2445080.38	1982 Apr 20 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y146	2445080.83	1982 Apr 21 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y147	2445081.08	1982 Apr 21 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y148	2445081.08	1982 Apr 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y151	2445087.33	1982 Apr 27 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1982-Y152	2445087.92	1982 Apr 28 1000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1982-Y153	2445088.08	1982 Apr 28 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1982-Y154	2445088.08	1982 Apr 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y156	2445088.23	1982 Apr 28 1730:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1982-Y158	2445088.28	1982 Apr 28 1840:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1982-Y159	2445088.40	1982 Apr 28 2140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y160	2445092.82	1982 May 03 0740:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1982-Y161	2445094.62	1982 May 05 0250:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y162	2445095.08	1982 May 05 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1982-Y163	2445095.08	1982 May 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y165	2445096.73	1982 May 07 0530:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y166	2445096.83	1982 May 07 0800:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y167	2445101.33	1982 May 11 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1982-Y168	2445102.08	1982 May 12 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y169	2445102.08	1982 May 12 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y171	2445102.96	1982 May 13 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y173	2445108.33	1982 May 18 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1982-Y174	2445109.10	1982 May 19 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y176	2445109.21	1982 May 19 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y177	2445109.33	1982 May 19 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y178	2445110.08	1982 May 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-Y179	2445116.08	1982 May 26 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1982-Y180	2445116.08	1982 May 26 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-W312	2445120.31	1982 May 30 1930:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	79	-	-
1982-Y182	2445120.36	1982 May 30 2045:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP2	-	-	84	-	-
1982-Y183	2445121.35	1982 May 31 2030:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP3	-	-	80	-	-
1982-Y184	2445122.00	1982 Jun 01 1200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP4	-	-	84	-	-
1982-Y185	2445122.33	1982 Jun 01 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y186	2445123.08	1982 Jun 02 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y187	2445123.08	1982 Jun 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y189	2445123.39	1982 Jun 02 2125:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP5	-	-	83	-	-
1982-Y190	2445124.60	1982 Jun 04 0220:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y191	2445125.08	1982 Jun 04 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1982-Y193	2445129.67	1982 Jun 09 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y194	2445129.83	1982 Jun 09 0800:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1982-Y195	2445130.08	1982 Jun 09 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y196	2445130.08	1982 Jun 09 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1982-Y197	2445130.08	1982 Jun 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y199	2445132.08	1982 Jun 11 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y200	2445135.08	1982 Jun 14 1400:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y201	2445136.33	1982 Jun 15 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y202	2445136.84	1982 Jun 16 0815:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y203	2445137.08	1982 Jun 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-Y204	2445137.24	1982 Jun 16 1750:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y205	2445137.94	1982 Jun 17 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y206	2445138.06	1982 Jun 17 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y207	2445139.33	1982 Jun 18 2000:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y208	2445144.08	1982 Jun 23 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y209	2445144.12	1982 Jun 23 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y210	2445146.10	1982 Jun 25 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y211	2445146.38	1982 Jun 25 2100:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP6	-	-	86	-	-
1982-Y220	2445150.33	1982 Jun 29 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-Y221	2445150.94	1982 Jun 30 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y222	2445151.10	1982 Jun 30 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y223	2445151.21	1982 Jun 30 1700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y225	2445151.38	1982 Jun 30 2100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y226	2445152.08	1982 Jul 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y227	2445152.15	1982 Jul 01 1530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y229	2445152.44	1982 Jul 01 2230:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP7	-	-	80	-	-
1982-Y230	2445153.10	1982 Jul 02 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y231	2445153.42	1982 Jul 02 2207:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP8	-	-	90	-	-
1982-Y236	2445154.42	1982 Jul 03 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP9	-	-	85	-	-
1982-Y246	2445155.42	1982 Jul 04 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP10	-	-	87	-	-
1982-Y247	2445156.42	1982 Jul 05 2210:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP11	-	-	89	-	-
1982-Y248	2445157.42	1982 Jul 06 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP12	-	-	85	-	-
1982-Y249	2445158.08	1982 Jul 07 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y250	2445158.10	1982 Jul 07 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y252	2445158.42	1982 Jul 07 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP13	-	-	84	-	-
1982-Y253	2445159.42	1982 Jul 08 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP14	-	-	80	-	-
1982-Y254	2445160.10	1982 Jul 09 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1982-Y256	2445160.42	1982 Jul 09 2200:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP15	-	-	82	-	-
1982-Y257	2445161.41	1982 Jul 10 2150:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP16	-	-	85	-	-
1982-Y258	2445162.33	1982 Jul 11 2000:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP17	-	-	83	-	-
1982-Y259	2445163.29	1982 Jul 12 1900:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP18	-	-	83	-	-
1982-Y261	2445164.22	1982 Jul 13 1720:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1982-Y262	2445164.31	1982 Jul 13 1930:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP19	-	-	90	-	-
1982-Y263	2445164.33	1982 Jul 13 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y264	2445164.34	1982 Jul 13 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y265	2445164.60	1982 Jul 14 0230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y266	2445165.08	1982 Jul 14 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y267	2445165.10	1982 Jul 14 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y268	2445165.31	1982 Jul 14 1930:00	M-100	-	-	-	-	-	SHIR	GMS82D	LP20	-	-	85	-	-
1982-Y269	2445167.10	1982 Jul 16 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y273	2445172.08	1982 Jul 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y274	2445172.10	1982 Jul 21 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1982-Y276	2445174.10	1982 Jul 23 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y278	2445178.34	1982 Jul 27 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y279	2445178.42	1982 Jul 27 2205:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-Y280	2445179.08	1982 Jul 28 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1982-Y281	2445179.10	1982 Jul 28 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y282	2445179.12	1982 Jul 28 1500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y283	2445181.12	1982 Jul 30 1500:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y284	2445186.08	1982 Aug 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y285	2445186.10	1982 Aug 04 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y288	2445188.10	1982 Aug 06 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1982-Y291	2445192.34	1982 Aug 10 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-Y292	2445192.62	1982 Aug 11 0300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y293	2445193.08	1982 Aug 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y294	2445193.10	1982 Aug 11 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1982-Y296	2445193.29	1982 Aug 11 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y297	2445199.34	1982 Aug 17 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y298	2445200.08	1982 Aug 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y299	2445200.10	1982 Aug 18 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y300	2445200.17	1982 Aug 18 1610:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1982-Y302	2445201.19	1982 Aug 19 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y304	2445206.34	1982 Aug 24 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y305	2445207.08	1982 Aug 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1982-Y306	2445207.10	1982 Aug 25 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1982-Y307	2445207.20	1982 Aug 25 1655:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y311	2445213.56	1982 Sep 01 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y312	2445213.58	1982 Sep 01 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y313	2445213.59	1982 Sep 01 0205:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y314	2445214.10	1982 Sep 01 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1982-Y315	2445214.29	1982 Sep 01 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y316	2445215.08	1982 Sep 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y317	2445220.34	1982 Sep 07 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y319	2445220.66	1982 Sep 08 0350:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y320	2445221.08	1982 Sep 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y321	2445221.10	1982 Sep 08 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1982-Y322	2445221.15	1982 Sep 08 1530:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1982-Y324	2445222.15	1982 Sep 09 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y326	2445227.34	1982 Sep 14 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y327	2445228.08	1982 Sep 15 1400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1982-Y328	2445228.08	1982 Sep 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y329	2445228.11	1982 Sep 15 1440:00	M-100	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1982-Y330	2445234.34	1982 Sep 21 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y332	2445234.67	1982 Sep 22 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y333	2445235.08	1982 Sep 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1982-Y334	2445235.10	1982 Sep 22 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y336	2445241.34	1982 Sep 28 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y337	2445241.39	1982 Sep 28 2120:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y338	2445241.79	1982 Sep 29 0700:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1982-Y339	2445242.10	1982 Sep 29 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y341	2445243.08	1982 Sep 30 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-Y343	2445248.34	1982 Oct 05 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y344	2445248.40	1982 Oct 05 2130:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y345	2445248.54	1982 Oct 06 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y346	2445249.08	1982 Oct 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-Y347	2445249.10	1982 Oct 06 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1982-Y350	2445255.33	1982 Oct 12 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-Y351	2445255.69	1982 Oct 13 0440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y352	2445256.08	1982 Oct 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y355	2445262.33	1982 Oct 19 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y356	2445262.70	1982 Oct 20 0450:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y357	2445263.08	1982 Oct 20 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y358	2445263.10	1982 Oct 20 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y359	2445269.34	1982 Oct 26 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1982-Y360	2445269.71	1982 Oct 27 0500:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1982-Y361	2445270.08	1982 Oct 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1982-Y363	2445276.36	1982 Nov 02 2040:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-W446	2445277.00	1982 Nov 03 1200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1982-Y364	2445277.08	1982 Nov 03 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y365	2445277.10	1982 Nov 03 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1982-Y366	2445283.33	1982 Nov 09 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1982-Y367	2445283.73	1982 Nov 10 0530:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-W451	2445284.08	1982 Nov 10 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	70	-	-
1982-Y368	2445284.29	1982 Nov 10 1900:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y379	2445289.94	1982 Nov 16 1030:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y384	2445290.06	1982 Nov 16 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y388	2445290.34	1982 Nov 16 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y389	2445291.08	1982 Nov 17 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1982-Y390	2445291.12	1982 Nov 17 1450:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1982-Y391	2445297.33	1982 Nov 23 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1982-Y392	2445297.38	1982 Nov 23 2100:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1982-Y396	2445297.97	1982 Nov 24 1120:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y397	2445298.08	1982 Nov 24 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1982-Y398	2445299.08	1982 Nov 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1982-Y399	2445299.24	1982 Nov 25 1751:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP1	-	-	82	-	-
1982-Y400	2445303.29	1982 Nov 29 1900:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP2	-	-	83	-	-
1982-Y440	2445302.72	1982 Nov 29 0521	M-100	-	-	Gerdien probe	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y401	2445304.33	1982 Nov 30 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1982-Y402	2445304.97	1982 Dec 01 1115:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y403	2445305.03	1982 Dec 01 1245:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1982-Y404	2445305.08	1982 Dec 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1982-Y405	2445305.10	1982 Dec 01 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y406	2445305.29	1982 Dec 01 1900:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP3	-	-	87	-	-
1982-Y407	2445306.08	1982 Dec 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1982-Y408	2445306.34	1982 Dec 02 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y409	2445307.18	1982 Dec 03 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1982-Y410	2445309.31	1982 Dec 05 1925:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP4	-	-	87	-	-
1982-Y411	2445311.29	1982 Dec 07 1900:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP5	-	-	87	-	-
1982-Y412	2445311.34	1982 Dec 07 2015:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1982-Y413	2445311.97	1982 Dec 08 1110:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1982-W496	2445312.11	1982 Dec 08 1441:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1982-Y415	2445313.29	1982 Dec 09 1900:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP6	-	-	85	-	-
1982-Y416	2445313.34	1982 Dec 09 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1982-Y417	2445313.96	1982 Dec 10 1100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1982-Y418	2445314.06	1982 Dec 10 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y419	2445318.34	1982 Dec 14 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1982-Y420	2445319.08	1982 Dec 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1982-W501	2445319.10	1982 Dec 15 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1982-Y421	2445319.14	1982 Dec 15 1515:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y422	2445320.34	1982 Dec 16 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1982-Y423	2445320.65	1982 Dec 17 0340:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y426	2445325.34	1982 Dec 21 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1982-Y427	2445326.08	1982 Dec 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1982-Y428	2445326.16	1982 Dec 22 1545:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1982-Y429	2445327.34	1982 Dec 23 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y430	2445328.09	1982 Dec 24 1410:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1982-Y431	2445332.34	1982 Dec 28 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1982-Y432	2445332.47	1982 Dec 28 2320:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP7	-	-	85	-	-
1982-Y433	2445333.08	1982 Dec 29 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1982-Y434	2445333.10	1982 Dec 29 1420:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1982-Y435	2445333.24	1982 Dec 29 1746:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1982-Y436	2445334.34	1982 Dec 30 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	85	-	-
1982-Y437	2445334.66	1982 Dec 31 0345:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1982-Y438	2445335.25	1982 Dec 31 1800:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP8	-	-	90	-	-
1982-Y439	2445335.33	1982 Dec 31 2000:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP9	-	-	90	-	-
1983-Y01	2445338.25	1983 Jan 03 1800:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP10	-	-	91	-	-
1983-Y02	2445339.29	1983 Jan 04 1900:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP11	-	-	88	-	-
1983-Y03	2445339.33	1983 Jan 04 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y04	2445340.08	1983 Jan 05 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y05	2445340.10	1983 Jan 05 1420:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1983-W03	2445340.33	1983 Jan 05 2000:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP12	-	-	52	-	-
1983-Y07	2445341.12	1983 Jan 06 1455:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y08	2445343.33	1983 Jan 08 2000:00	M-100	-	-	-	-	-	VOKV	IOLZ	IO70	-	-	82	-	-
1983-Y09	2445344.38	1983 Jan 09 2100:00	M-100	-	-	-	-	-	VOKV	GMS82E	LP14	-	-	85	-	-
1983-Y10	2445346.34	1983 Jan 11 2015:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y11	2445347.10	1983 Jan 12 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y12	2445347.10	1983 Jan 12 1430:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y13	2445347.12	1983 Jan 12 1455:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1983-Y14	2445347.26	1983 Jan 12 1820:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1983-Y15	2445348.17	1983 Jan 13 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1983-Y16	2445353.36	1983 Jan 18 2040:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y17	2445353.54	1983 Jan 19 0100:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1983-Y18	2445354.08	1983 Jan 19 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1983-Y19	2445355.33	1983 Jan 20 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	90	-	-
1983-Y20	2445355.56	1983 Jan 21 0130:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1983-Y21	2445360.33	1983 Jan 25 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1983-Y22	2445361.10	1983 Jan 26 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-W22	2445361.11	1983 Jan 26 1440:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1983-Y23	2445362.11	1983 Jan 27 1440:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1983-Y24	2445367.33	1983 Feb 01 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y25	2445368.08	1983 Feb 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1983-Y26	2445368.12	1983 Feb 02 1450:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1983-Y27	2445371.33	1983 Feb 05 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y28	2445371.57	1983 Feb 06 0140:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y33	2445373.33	1983 Feb 07 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y34	2445373.58	1983 Feb 08 0150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y35	2445375.10	1983 Feb 09 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1983-Y36	2445375.14	1983 Feb 09 1515:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y37	2445376.10	1983 Feb 10 1417:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1983-Y40	2445381.58	1983 Feb 16 0200:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1983-Y41	2445382.08	1983 Feb 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1983-Y42	2445382.20	1983 Feb 16 1650:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1983-Y44	2445387.29	1983 Feb 21 1900:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	91	-	-
1983-W43	2445388.28	1983 Feb 22 1845:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	71	-	-
1983-Y45	2445388.33	1983 Feb 22 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1983-Y46	2445388.39	1983 Feb 22 2120:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1983-Y48	2445389.10	1983 Feb 23 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1983-Y49	2445389.18	1983 Feb 23 1620:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1983-Y50	2445389.19	1983 Feb 23 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1983-Y51	2445389.35	1983 Feb 23 2030:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	81	-	-
1983-Y52	2445390.28	1983 Feb 24 1845:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-
1983-Y53	2445391.28	1983 Feb 25 1840:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	87	-	-
1983-Y54	2445392.28	1983 Feb 26 1850:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y55	2445393.28	1983 Feb 27 1845:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y56	2445394.29	1983 Feb 28 1852:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	81	-	-
1983-Y57	2445395.31	1983 Mar 01 1930:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y58	2445395.34	1983 Mar 01 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-W56	2445396.08	1983 Mar 02 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	74	-	-
1983-Y59	2445396.10	1983 Mar 02 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1983-Y60	2445396.16	1983 Mar 02 1545:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1983-Y61	2445396.21	1983 Mar 02 1705:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1983-Y62	2445396.29	1983 Mar 02 1900:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	86	-	-
1983-Y63	2445397.29	1983 Mar 03 1900:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y64	2445397.67	1983 Mar 04 0400:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1983-Y65	2445398.28	1983 Mar 04 1840:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-
1983-Y66	2445399.28	1983 Mar 05 1850:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	84	-	-
1983-Y67	2445400.28	1983 Mar 06 1850:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-
1983-Y68	2445401.28	1983 Mar 07 1850:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y71	2445402.33	1983 Mar 08 2000:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	90	-	-
1983-Y72	2445402.34	1983 Mar 08 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y76	2445402.60	1983 Mar 09 0230:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1983-Y86	2445403.08	1983 Mar 09 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1983-Y87	2445403.27	1983 Mar 09 1830:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	80	-	-
1983-Y88	2445403.31	1983 Mar 09 1920:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1983-Y90	2445404.27	1983 Mar 10 1835:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y91	2445405.27	1983 Mar 11 1830:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-W73	2445406.28	1983 Mar 12 1840:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	63	-	-
1983-Y93	2445407.27	1983 Mar 13 1825:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y94	2445408.27	1983 Mar 14 1830:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	87	-	-
1983-Y95	2445409.27	1983 Mar 15 1830:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	84	-	-
1983-Y96	2445409.34	1983 Mar 15 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	93	-	-
1983-Y97	2445409.94	1983 Mar 16 1040:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1983-W82	2445410.08	1983 Mar 16 1350:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	68	-	-
1983-Y98	2445410.08	1983 Mar 16 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1983-Y99	2445410.10	1983 Mar 16 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y101	2445410.29	1983 Mar 16 1900:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	83	-	-
1983-Y102	2445411.27	1983 Mar 17 1825:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	90	-	-
1983-Y103	2445412.25	1983 Mar 18 1800:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	86	-	-
1983-Y104	2445413.34	1983 Mar 19 2010:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	85	-	-
1983-Y105	2445414.28	1983 Mar 20 1850:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	88	-	-
1983-Y106	2445415.33	1983 Mar 21 1950:00	M-100	-	-	-	-	-	SHIR	NER	-	-	-	86	-	-
1983-Y107	2445416.34	1983 Mar 22 2015:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1983-Y108	2445416.39	1983 Mar 22 2115:00	M-100	-	-	-	-	-	-	OK	-	-	-	83	-	-
1983-Y109	2445416.70	1983 Mar 23 0450:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y110	2445416.74	1983 Mar 23 0545:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y111	2445416.88	1983 Mar 23 0910:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y112	2445416.93	1983 Mar 23 1020:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y113	2445416.99	1983 Mar 23 1150:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1983-Y114	2445417.08	1983 Mar 23 1355:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1983-Y115	2445417.10	1983 Mar 23 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y116	2445417.10	1983 Mar 23 1430:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y117	2445417.16	1983 Mar 23 1545:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y118	2445421.92	1983 Mar 28 1000:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y119	2445421.96	1983 Mar 28 1103:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y120	2445422.12	1983 Mar 28 1500:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y121	2445422.21	1983 Mar 28 1700:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y122	2445422.25	1983 Mar 28 1805:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y124	2445422.87	1983 Mar 29 0850:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y125	2445423.34	1983 Mar 29 2015:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y126	2445424.09	1983 Mar 30 1405:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1983-Y127	2445424.10	1983 Mar 30 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y128	2445424.94	1983 Mar 31 1030:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y129	2445424.99	1983 Mar 31 1150:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y130	2445425.09	1983 Mar 31 1410:00	M-100	-	-	Ozone Intercomp.	-	-	-	TERLS	-	-	-	85?	-	-
1983-Y134	2445431.05	1983 Apr 06 1315:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y135	2445431.08	1983 Apr 06 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1983-Y136	2445431.10	1983 Apr 06 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-Y137	2445431.31	1983 Apr 06 1920:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1983-Y147	2445438.08	1983 Apr 13 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1983-Y148	2445438.10	1983 Apr 13 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-Y150	2445438.33	1983 Apr 13 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1983-Y151	2445439.32	1983 Apr 14 1940:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y152	2445445.10	1983 Apr 20 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1983-Y154	2445445.33	1983 Apr 20 2000:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y155	2445445.34	1983 Apr 20 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y157	2445446.08	1983 Apr 21 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1983-Y160	2445450.33	1983 Apr 25 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y161	2445451.33	1983 Apr 26 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	82	-	-
1983-Y162	2445452.08	1983 Apr 27 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1983-Y163	2445452.14	1983 Apr 27 1520:00	M-100	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1983-Y165	2445453.17	1983 Apr 28 1600:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y166	2445458.34	1983 May 03 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1983-Y167	2445459.08	1983 May 04 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1983-Y168	2445459.10	1983 May 04 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y171	2445465.34	1983 May 10 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1983-W148	2445466.08	1983 May 11 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	71	-	-
1983-Y172	2445466.10	1983 May 11 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1983-Y173	2445473.08	1983 May 18 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1983-A22	2445473.10	1983 May 18 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	37	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y174	2445479.33	1983 May 24 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1983-W166	2445479.81	1983 May 25 0730:00	M-100	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1983-Y175	2445480.08	1983 May 25 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1983-Y177	2445485.46	1983 May 30 2300:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	92	-	-
1983-Y178	2445485.58	1983 May 31 0200:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1983-Y179	2445487.08	1983 Jun 01 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1983-Y180	2445487.10	1983 Jun 01 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y182	2445487.61	1983 Jun 02 0240:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1983-Y183	2445487.68	1983 Jun 02 0425:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1983-Y184	2445489.10	1983 Jun 03 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y185	2445493.34	1983 Jun 07 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	86	-	-
1983-Y186	2445494.08	1983 Jun 08 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1983-Y187	2445494.10	1983 Jun 08 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-Y188	2445494.15	1983 Jun 08 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1983-Y190	2445496.10	1983 Jun 10 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1983-Y192	2445501.04	1983 Jun 15 1300:00	M-100	-	-	-	-	-	KORO	GMS83A	LP1	-	-	85	-	-
1983-Y193	2445501.08	1983 Jun 15 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1983-Y194	2445501.10	1983 Jun 15 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1983-W190	2445503.10	1983 Jun 17 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	72	-	-
1983-Y199	2445505.06	1983 Jun 19 1330:00	M-100	-	-	-	-	-	KORO	GMS83A	LP2	-	-	90	-	-
1983-Y200	2445505.15	1983 Jun 19 1530:00	M-100	-	-	-	-	-	KORO	GMS83A	LP3	-	-	85	-	-
1983-Y202	2445507.04	1983 Jun 21 1300:00	M-100	-	-	-	-	-	KORO	GMS83A	LP4	-	-	83	-	-
1983-Y203	2445507.12	1983 Jun 21 1450:00	M-100	-	-	-	-	-	KORO	GMS83A	LP4	-	-	82	-	-
1983-Y204	2445507.33	1983 Jun 21 2000:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y205	2445507.60	1983 Jun 22 0220:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1983-Y206	2445508.08	1983 Jun 22 1400:00	M-100	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1983-Y207	2445508.15	1983 Jun 22 1540:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y215	2445510.10	1983 Jun 24 1420:00	M-100	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1983-Y218	2445513.91	1983 Jun 28 0945:00	M-100	-	-	-	-	-	KORO	GMS83A	LP5	-	-	85	-	-
1983-Y219	2445513.96	1983 Jun 28 1107:00	M-100	-	-	-	-	-	KORO	GMS83A	LP5	-	-	88	-	-
1983-Y220	2445515.10	1983 Jun 29 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1983-Y221	2445515.31	1983 Jun 29 1922:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y222	2445515.95	1983 Jun 30 1050:00	M-100	-	-	-	-	-	KORO	GMS83A	LP6	-	-	85	-	-
1983-Y224	2445517.14	1983 Jul 01 1520:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-Y225	2445519.92	1983 Jul 04 1000:00	M-100	-	-	-	-	-	KORO	GMS83A	LP7	-	-	87	-	-
1983-Y226	2445520.90	1983 Jul 05 0930:00	M-100	-	-	-	-	-	KORO	GMS83A	LP8	-	-	88	-	-
1983-Y228	2445521.34	1983 Jul 05 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	84	-	-
1983-Y230	2445522.10	1983 Jul 06 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y231	2445522.15	1983 Jul 06 1533:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y232	2445522.31	1983 Jul 06 1922:00	M-100	-	-	-	-	-	-	MLD	-	-	-	92	-	-
1983-Y233	2445524.10	1983 Jul 08 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y234	2445529.10	1983 Jul 13 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y235	2445531.10	1983 Jul 15 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1983-Y236	2445535.34	1983 Jul 19 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1983-Y238	2445536.10	1983 Jul 20 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1983-Y239	2445536.31	1983 Jul 20 1930:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y240	2445538.10	1983 Jul 22 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-Y241	2445538.16	1983 Jul 22 1545:00	M-100	-	-	-	-	-	KORO	GMS83A	LP9	-	-	88	-	-
1983-Y242	2445538.24	1983 Jul 22 1750:00	M-100	-	-	-	-	-	KORO	GMS83A	LP9	-	-	82	-	-
1983-Y243	2445543.10	1983 Jul 27 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1983-Y245	2445545.10	1983 Jul 29 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1983-Y247	2445549.36	1983 Aug 02 2045:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1983-Y248	2445550.13	1983 Aug 03 1511:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1983-Y249	2445551.19	1983 Aug 04 1632:00	M-100	-	-	-	-	-	KORO	GMS83A	LP10	-	-	83	-	-
1983-Y250	2445552.26	1983 Aug 05 1811:00	M-100	-	-	-	-	-	KORO	GMS83A	LP11	-	-	86	-	-
1983-Y251	2445553.24	1983 Aug 06 1746:00	M-100	-	-	-	-	-	KORO	GMS83A	LP12	-	-	87	-	-
1983-Y252	2445553.30	1983 Aug 06 1919:00	M-100	-	-	-	-	-	KORO	GMS83A	LP13	-	-	86	-	-
1983-Y253	2445554.09	1983 Aug 07 1411:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-W231	2445555.27	1983 Aug 08 1825:00	M-100	-	-	-	-	-	KORO	GMS83A	LP14	-	-	76	-	-
1983-Y254	2445557.10	1983 Aug 10 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y255	2445557.19	1983 Aug 10 1632:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	85	-	-
1983-Y256	2445557.25	1983 Aug 10 1756:00	M-100	-	-	-	-	-	KORO	NER	-	-	-	84	-	-
1983-Y258	2445563.34	1983 Aug 16 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	87	-	-
1983-Y259	2445564.10	1983 Aug 17 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1983-Y261	2445564.18	1983 Aug 17 1620:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1983-Y262	2445570.34	1983 Aug 23 2010:00	M-100	-	-	-	-	-	-	OK	-	-	-	89	-	-
1983-Y263	2445571.10	1983 Aug 24 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1983-Y264	2445571.19	1983 Aug 24 1630:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y266	2445578.10	1983 Aug 31 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1983-Y267	2445578.10	1983 Aug 31 1424:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1983-Y268	2445578.33	1983 Aug 31 2000:00	M-100	-	-	-	-	-	VOKV	GMS83C	LP1	-	-	87	-	-
1983-Y273	2445581.29	1983 Sep 03 1855:00	M-100	-	-	-	-	-	VOKV	GMS83C	LP2	-	-	87	-	-
1983-W253	2445581.37	1983 Sep 03 2050:00	M-100	-	-	-	-	-	VOKV	GMS83C	LP2	-	-	61	-	-
1983-Y278	2445585.10	1983 Sep 07 1422:00	M-100	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1983-Y279	2445585.21	1983 Sep 07 1705:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1983-Y282	2445591.34	1983 Sep 13 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	92	-	-
1983-Y283	2445591.41	1983 Sep 13 2145:00	M-100	-	-	-	-	-	-	OK	-	-	-	91	-	-
1983-Y284	2445592.08	1983 Sep 14 1354:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1983-Y285	2445598.34	1983 Sep 20 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	88	-	-
1983-Y287	2445599.06	1983 Sep 21 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1983-Y288	2445599.10	1983 Sep 21 1430:00	M-100	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1983-W282	2445605.34	1983 Sep 27 2005:00	M-100	-	-	-	-	-	-	OK	-	-	-	76	-	-
1983-W283	2445606.06	1983 Sep 28 1330:00	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1983-Y324	2445607.50	1983 Oct	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y325	2445607.50	1983 Oct	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y326	2445607.50	1983 Oct	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y327	2445607.50	1983 Oct	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y328	2445638.50	1983 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y329	2445638.50	1983 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y330	2445638.50	1983 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y331	2445638.50	1983 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y332	2445638.50	1983 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y333	2445668.50	1983 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y334	2445668.50	1983 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y335	2445668.50	1983 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1983-Y336	2445668.50	1983 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y137	2445699.50	1984 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y138	2445699.50	1984 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y139	2445699.50	1984 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y140	2445699.50	1984 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-S143	2445724.50	1984 Jan 25	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1984-S144	2445729.50	1984 Jan 30	M-100	-	-	-	-	-	-	AKHT	-	-	-	90?	-	-
1984-Y141	2445730.50	1984 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y142	2445730.50	1984 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y143	2445730.50	1984 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y144	2445730.50	1984 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-S145	2445731.50	1984 Feb 1	M-100	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1984-Y136	2445738.94	1984 Feb 8 1039	M-100	-	-	Gerdien probe	-	-	-	TERLS	-	-	-	85?	-	-
1984-S146	2445746.50	1984 Feb 16	M-100	-	-	-	-	-	-	AKHT	-	-	-	90?	-	-
1984-Y145	2445759.50	1984 Mar	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y146	2445759.50	1984 Mar	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y147	2445759.50	1984 Mar	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y148	2445759.50	1984 Mar	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y149	2445790.50	1984 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y150	2445790.50	1984 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y151	2445790.50	1984 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y152	2445790.50	1984 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y153	2445820.50	1984 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y154	2445820.50	1984 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y155	2445820.50	1984 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y156	2445820.50	1984 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y157	2445820.50	1984 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y158	2445851.50	1984 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y159	2445851.50	1984 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y160	2445851.50	1984 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y161	2445851.50	1984 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y162	2445881.50	1984 Jul	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y163	2445881.50	1984 Jul	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y164	2445881.50	1984 Jul	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y165	2445912.50	1984 Aug	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y166	2445912.50	1984 Aug	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y167	2445912.50	1984 Aug	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y168	2445912.50	1984 Aug	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y169	2445912.50	1984 Aug	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y170	2445943.50	1984 Sep	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y171	2445943.50	1984 Sep	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y172	2446034.50	1984 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y173	2446034.50	1984 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y174	2446034.50	1984 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1984-Y175	2446034.50	1984 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y166	2446065.50	1985 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y167	2446065.50	1985 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y168	2446065.50	1985 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y169	2446065.50	1985 Jan	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y170	2446096.50	1985 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y171	2446096.50	1985 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y172	2446096.50	1985 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y173	2446096.50	1985 Feb	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y174	2446155.50	1985 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y175	2446155.50	1985 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y176	2446155.50	1985 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y177	2446155.50	1985 Apr	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y178	2446185.50	1985 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y179	2446185.50	1985 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y180	2446185.50	1985 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y181	2446185.50	1985 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y182	2446185.50	1985 May	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y183	2446216.50	1985 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y184	2446216.50	1985 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y185	2446216.50	1985 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y186	2446216.50	1985 Jun	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1985-Y23	2446248.99	1985 Jul 02 1143:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1985-Y24	2446249.34	1985 Jul 02 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1985-Y25	2446250.10	1985 Jul 03 1422:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1985-Y26	2446250.26	1985 Jul 03 1821:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1985-W200	2446251.22	1985 Jul 04 1710:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1985-W201	2446251.29	1985 Jul 04 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1985-Y27	2446252.10	1985 Jul 05 1422:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1985-Y28	2446256.34	1985 Jul 09 2007:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1985-Y29	2446256.98	1985 Jul 10 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1985-Y30	2446257.08	1985 Jul 10 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-W204	2446257.27	1985 Jul 10 1827:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W206	2446257.34	1985 Jul 10 2007:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1985-Y31	2446259.09	1985 Jul 12 1408:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-Y33	2446263.34	1985 Jul 16 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1985-Y34	2446263.98	1985 Jul 17 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1985-Y35	2446264.09	1985 Jul 17 1409:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1985-Y36	2446264.14	1985 Jul 17 1526:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-Y37	2446265.00	1985 Jul 18 1155:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1985-Y38	2446266.09	1985 Jul 19 1410:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1985-Y39	2446268.98	1985 Jul 22 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1985-Y40	2446270.34	1985 Jul 23 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	90	-	-
1985-Y41	2446270.99	1985 Jul 24 1146:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-Y42	2446272.98	1985 Jul 26 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1985-Y43	2446273.09	1985 Jul 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1985-Y44	2446275.98	1985 Jul 29 1133:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1985-W218	2446277.34	1985 Jul 30 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	63	-	-
1985-Y46	2446277.99	1985 Jul 31 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-Y47	2446279.98	1985 Aug 02 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1985-Y48	2446284.34	1985 Aug 06 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	93	-	-
1985-Y49	2446284.99	1985 Aug 07 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1985-Y50	2446285.09	1985 Aug 07 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1985-Y51	2446285.09	1985 Aug 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1985-Y52	2446285.13	1985 Aug 07 1506:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1985-Y53	2446285.17	1985 Aug 07 1607:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-Y54	2446287.09	1985 Aug 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1985-Y55	2446291.34	1985 Aug 13 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1985-Y56	2446291.60	1985 Aug 14 0230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1985-Y57	2446291.99	1985 Aug 14 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1985-Y58	2446292.09	1985 Aug 14 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1985-Y59	2446294.09	1985 Aug 16 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1985-Y60	2446298.34	1985 Aug 20 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1985-Y61	2446299.10	1985 Aug 21 1422:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1985-Y62	2446299.99	1985 Aug 22 1142:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1985-Y63	2446300.25	1985 Aug 22 1800:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-Y64	2446305.34	1985 Aug 27 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1985-Y65	2446306.09	1985 Aug 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1985-Y66	2446306.10	1985 Aug 28 1417:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1985-Y67	2446306.99	1985 Aug 29 1142:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1985-W232	2446312.34	1985 Sep 03 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1985-Y71	2446312.99	1985 Sep 04 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-W234	2446313.09	1985 Sep 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1985-Y72	2446313.09	1985 Sep 04 1414:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-Y73	2446319.34	1985 Sep 10 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1985-Y74	2446319.98	1985 Sep 11 1131:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-Y75	2446320.10	1985 Sep 11 1431:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-Y76	2446320.18	1985 Sep 11 1615:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1985-Y77	2446326.34	1985 Sep 17 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	92	-	-
1985-Y78	2446326.66	1985 Sep 18 0355:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1985-Y79	2446326.98	1985 Sep 18 1125:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-Y80	2446328.09	1985 Sep 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1985-Y81	2446333.34	1985 Sep 24 2008:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1985-Y82	2446333.78	1985 Sep 25 0644:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1985-Y83	2446333.94	1985 Sep 25 1040:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1985-Y84	2446334.09	1985 Sep 25 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1985-Y85	2446340.38	1985 Oct 01 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1985-W258	2446340.81	1985 Oct 02 0730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1985-W259	2446340.92	1985 Oct 02 1000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1985-Y86	2446341.09	1985 Oct 02 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1985-Y87	2446341.09	1985 Oct 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1985-Y88	2446341.99	1985 Oct 03 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1985-Y90	2446347.38	1985 Oct 08 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1985-Y94	2446347.99	1985 Oct 09 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1985-Y95	2446348.04	1985 Oct 09 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1985-Y96	2446348.09	1985 Oct 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1985-Y97	2446354.38	1985 Oct 15 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1985-Y98	2446355.03	1985 Oct 16 1243:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-W266	2446355.07	1985 Oct 16 1335:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1985-Y99	2446355.13	1985 Oct 16 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1985-Y100	2446356.09	1985 Oct 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-Y101	2446361.38	1985 Oct 22 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1985-W269	2446362.09	1985 Oct 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1985-Y102	2446363.02	1985 Oct 24 1235:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1985-W270	2446363.03	1985 Oct 24 1239:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1985-Y103	2446363.24	1985 Oct 24 1749:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1985-W277	2446369.04	1985 Oct 30 1301:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1985-Y104	2446369.10	1985 Oct 30 1426:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1985-Y105	2446369.10	1985 Oct 30 1426:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	84	-	-
1985-Y107	2446372.99	1985 Nov 03 1152:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1985-Y108	2446374.11	1985 Nov 04 1438:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	86	-	-
1985-W285	2446375.11	1985 Nov 05 1433:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	79	-	-
1985-Y109	2446375.73	1985 Nov 06 0527:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1985-Y110	2446375.96	1985 Nov 06 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1985-Y112	2446378.10	1985 Nov 08 1421:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	87	-	-
1985-Y113	2446382.38	1985 Nov 12 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1985-Y114	2446382.97	1985 Nov 13 1115:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1985-Y115	2446382.99	1985 Nov 13 1144:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-Y116	2446383.09	1985 Nov 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-Y117	2446384.94	1985 Nov 15 1030:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1985-Y118	2446388.23	1985 Nov 18 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1985-Y119	2446389.04	1985 Nov 19 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1985-Y120	2446389.38	1985 Nov 19 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1985-Y121	2446390.00	1985 Nov 20 1154:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1985-Y122	2446390.02	1985 Nov 20 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1985-Y123	2446390.09	1985 Nov 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1985-Y124	2446395.08	1985 Nov 25 1400:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	87	-	-
1985-Y125	2446395.14	1985 Nov 25 1522:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	86	-	-
1985-Y126	2446396.38	1985 Nov 26 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1985-Y127	2446396.98	1985 Nov 27 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1985-W306	2446397.09	1985 Nov 27 1408:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1985-Y128	2446397.19	1985 Nov 27 1632:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1985-W308	2446398.03	1985 Nov 28 1240:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	71	-	-
1985-W309	2446398.81	1985 Nov 29 0730:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	79	-	-
1985-Y129	2446399.08	1985 Nov 29 1400:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	84	-	-
1985-Y130	2446399.13	1985 Nov 29 1510:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	85	-	-
1985-W310	2446400.98	1985 Dec 01 1129:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	77	-	-
1985-Y131	2446402.90	1985 Dec 03 0930:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	84	-	-
1985-W311	2446403.15	1985 Dec 03 1530:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	71	-	-
1985-Y132	2446403.20	1985 Dec 03 1650:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	90	-	-
1985-Y133	2446403.96	1985 Dec 04 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1985-Y134	2446404.02	1985 Dec 04 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1985-Y135	2446404.09	1985 Dec 04 1405:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1985-Y136	2446404.14	1985 Dec 04 1522:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1985-Y137	2446404.94	1985 Dec 05 1030:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	87	-	-
1985-Y138	2446405.08	1985 Dec 05 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	95	-	-
1985-Y139	2446405.19	1985 Dec 05 1633:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	85	-	-
1985-Y140	2446405.24	1985 Dec 05 1740:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	83	-	-
1985-Y141	2446406.07	1985 Dec 06 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1985-S296	2446407.82	1985 Dec 8 0740	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90?	-	-
1985-S297	2446407.87	1985 Dec 8 0850	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90?	-	-
1985-Y142	2446410.10	1985 Dec 10 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	93	-	-
1985-Y143	2446410.18	1985 Dec 10 1615:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1985-Y144	2446410.38	1985 Dec 10 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1985-Y145	2446410.96	1985 Dec 11 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1985-Y146	2446410.97	1985 Dec 11 1110:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y147	2446411.08	1985 Dec 11 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y148	2446411.09	1985 Dec 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1985-S298	2446413.99	1985 Dec 14 1140	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90?	-	-
1985-S299	2446414.03	1985 Dec 14 1240	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90?	-	-
1985-Y149	2446414.90	1985 Dec 15 0930:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	83	-	-
1985-Y150	2446415.17	1985 Dec 15 1602:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	85	-	-
1985-Y151	2446415.22	1985 Dec 15 1716:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	89	-	-
1985-Y153	2446417.38	1985 Dec 17 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1985-Y156	2446417.96	1985 Dec 18 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1985-Y157	2446418.02	1985 Dec 18 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y158	2446418.09	1985 Dec 18 1407:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y159	2446418.10	1985 Dec 18 1422:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1985-W346	2446424.40	1985 Dec 24 2140:00	M-100B	-	-	-	-	-	-	OK	-	-	-	75	-	-
1985-Y160	2446424.97	1985 Dec 25 1110:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y161	2446425.09	1985 Dec 25 1409:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1985-Y162	2446425.15	1985 Dec 25 1530:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1985-Y163	2446425.97	1985 Dec 26 1119:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1985-Y164	2446429.78	1985 Dec 30 0643:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1985-Y165	2446430.38	1985 Dec 30 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y01	2446431.97	1986 Jan 01 1116:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y02	2446432.10	1986 Jan 01 1422:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y03	2446434.94	1986 Jan 04 1030:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	86	-	-
1986-W02	2446435.20	1986 Jan 04 1655:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	75	-	-
1986-Y04	2446435.27	1986 Jan 04 1831:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	80	-	-
1986-Y05	2446435.34	1986 Jan 04 2015:00	M-100B	-	-	-	-	-	SHIR	GMS85C	ULP1	-	-	80	-	-
1986-Y06	2446435.97	1986 Jan 05 1115:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-W03	2446436.38	1986 Jan 05 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1986-Y07	2446436.97	1986 Jan 06 1120:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y08	2446438.38	1986 Jan 07 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1986-Y09	2446439.00	1986 Jan 08 1207:00	M-100B	-	STRATWARM	ISRO 8.845	-	-	-	TERLS	-	-	-	85	-	-
1986-Y10	2446439.06	1986 Jan 08 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y11	2446439.10	1986 Jan 08 1420:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y12	2446443.38	1986 Jan 12 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1986-Y13	2446443.98	1986 Jan 13 1130:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1986-Y14	2446445.38	1986 Jan 14 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y225	2446445.97	1986 Jan 15 1115	M-100B	-	STRATWARM	ISRO 8.846	-	-	-	TERLS	-	-	-	85	-	-
1986-W12	2446446.02	1986 Jan 15 1235:00	M-100B	-	-	-	-	-	-	OK	-	-	-	76	-	-
1986-Y15	2446446.12	1986 Jan 15 1446:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1986-Y16	2446446.15	1986 Jan 15 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1986-Y17	2446450.00	1986 Jan 19 1205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y226	2446450.96	1986 Jan 20 1100	M-100B	-	STRATWARM	ISRO 8.847	-	-	-	TERLS	-	-	-	85	-	-
1986-Y18	2446451.00	1986 Jan 20 1205:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y19	2446452.44	1986 Jan 21 2235:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y20	2446453.09	1986 Jan 22 1410:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y21	2446452.96	1986 Jan 22 1100:00	M-100B	-	STRATWARM	ISRO 8.848	-	-	-	TERLS	-	-	-	83	-	-
1986-Y22	2446454.38	1986 Jan 23 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y23	2446454.46	1986 Jan 23 2305:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y227	2446455.06	1986 Jan 24 1330	M-100B	-	STRATWARM	ISRO 8.849	-	-	-	TERLS	-	-	-	85	-	-
1986-Y24	2446457.38	1986 Jan 26 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-Y228	2446457.99	1986 Jan 27 1144	M-100B	-	STRATWARM	ISRO 8.850	-	-	-	TERLS	-	-	-	85	-	-
1986-Y25	2446459.38	1986 Jan 28 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y26	2446460.09	1986 Jan 29 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y27	2446460.12	1986 Jan 29 1449:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y28	2446460.96	1986 Jan 30 1100:00	M-100B	-	STRATWARM	ISRO 8.852	-	-	-	TERLS	-	-	-	82	-	-
1986-W23	2446461.38	1986 Jan 30 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1986-Y29	2446464.38	1986 Feb 02 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y30	2446465.02	1986 Feb 03 1227:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1986-Y249	2446465.06	1986 Feb 3 1330	M-100B	-	STRATWARM	ISRO 8.853	-	-	-	TERLS	-	-	-	85	-	-
1986-Y31	2446466.38	1986 Feb 04 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y32	2446466.96	1986 Feb 05 1106:00	M-100B	-	STRATWARM	ISRO 8.854	-	-	-	TERLS	-	-	-	85	-	-
1986-Y33	2446467.02	1986 Feb 05 1235:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y34	2446467.09	1986 Feb 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1986-Y35	2446472.03	1986 Feb 10 1240:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y36	2446473.38	1986 Feb 11 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1986-Y37	2446474.03	1986 Feb 12 1240:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1986-Y38	2446474.09	1986 Feb 12 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y39	2446475.10	1986 Feb 13 1430:00	M-100B	-	STRATWARM	ISRO 8.855	-	-	-	TERLS	-	-	-	84	-	-
1986-Y40	2446478.38	1986 Feb 16 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y41	2446479.02	1986 Feb 17 1234:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y229	2446478.98	1986 Feb 17 1135	M-100B	-	STRATWARM	ISRO 8.856	-	-	-	TERLS	-	-	-	85	-	-
1986-W36	2446480.38	1986 Feb 18 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1986-W37	2446480.42	1986 Feb 18 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1986-Y42	2446481.09	1986 Feb 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y230	2446482.00	1986 Feb 20 1200	M-100B	-	STRATWARM	ISRO 8.858	-	-	-	TERLS	-	-	-	85	-	-
1986-Y43	2446482.04	1986 Feb 20 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1986-Y44	2446483.07	1986 Feb 21 1347:00	M-100B	-	STRATWARM	ISRO 8.859	-	-	-	TERLS	-	-	-	86	-	-
1986-Y45	2446485.38	1986 Feb 23 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y46	2446486.05	1986 Feb 24 1318:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1986-Y231	2446486.07	1986 Feb 24 1347	M-100B	-	STRATWARM	ISRO 8.860	-	-	-	TERLS	-	-	-	85	-	-
1986-Y47	2446486.09	1986 Feb 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1986-Y48	2446488.05	1986 Feb 26 1310:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1986-Y49	2446488.09	1986 Feb 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y50	2446488.27	1986 Feb 26 1835:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y51	2446488.98	1986 Feb 27 1136:00	M-100B	-	STRATWARM	ISRO 8.861	-	-	-	TERLS	-	-	-	82	-	-
1986-Y52	2446492.38	1986 Mar 02 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-W48	2446493.08	1986 Mar 03 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1986-Y53	2446494.38	1986 Mar 04 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1986-Y54	2446494.38	1986 Mar 04 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1986-W51	2446494.98	1986 Mar 05 1137:00	M-100B	-	STRATWARM	ISRO 8.862	-	-	-	TERLS	-	-	-	79	-	-
1986-Y55	2446495.06	1986 Mar 05 1325:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y56	2446495.09	1986 Mar 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-S137	2446499.50	1986 Mar 10	M-100B	-	-	D-REG IONIZ. COMP.	-	-	-	TERLS	-	-	-	105	-	-
1986-Y57	2446500.12	1986 Mar 10 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y58	2446501.38	1986 Mar 11 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y59	2446502.04	1986 Mar 12 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y60	2446502.09	1986 Mar 12 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1986-Y61	2446503.06	1986 Mar 13 1326:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y62	2446506.38	1986 Mar 16 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y63	2446507.04	1986 Mar 17 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y64	2446508.38	1986 Mar 18 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y65	2446508.99	1986 Mar 19 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1986-Y66	2446509.04	1986 Mar 19 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1986-W64	2446509.09	1986 Mar 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1986-Y67	2446513.38	1986 Mar 23 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y68	2446514.04	1986 Mar 24 1302:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y69	2446515.38	1986 Mar 25 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y70	2446516.04	1986 Mar 26 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y71	2446516.12	1986 Mar 26 1447:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1986-Y72	2446516.98	1986 Mar 27 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y73	2446520.38	1986 Mar 30 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y74	2446521.08	1986 Mar 31 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1986-W72	2446522.34	1986 Apr 01 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	74	-	-
1986-Y75	2446522.98	1986 Apr 02 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y76	2446523.08	1986 Apr 02 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y77	2446523.17	1986 Apr 02 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	97	-	-
1986-Y78	2446523.17	1986 Apr 02 1607:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y79	2446527.34	1986 Apr 06 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y80	2446528.10	1986 Apr 07 1417:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y81	2446529.42	1986 Apr 08 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85?	-	-
1986-Y82	2446529.98	1986 Apr 09 1136:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y83	2446530.09	1986 Apr 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y84	2446530.10	1986 Apr 09 1431:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1986-Y85	2446530.16	1986 Apr 09 1545:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	97	-	-
1986-Y86	2446534.34	1986 Apr 13 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y87	2446535.10	1986 Apr 14 1420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y88	2446536.34	1986 Apr 15 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y89	2446537.09	1986 Apr 16 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y90	2446537.10	1986 Apr 16 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1986-Y91	2446537.98	1986 Apr 17 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y92	2446542.09	1986 Apr 21 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1986-W77	2446542.10	1986 Apr 21 1423:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y93	2446543.34	1986 Apr 22 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y94	2446544.11	1986 Apr 23 1435:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1986-Y95	2446544.12	1986 Apr 23 1450:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1986-Y96	2446544.98	1986 Apr 24 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-W83	2446547.88	1986 Apr 27 0900:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	79	-	-
1986-Y97	2446547.93	1986 Apr 27 1020:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	82	-	-
1986-Y98	2446548.34	1986 Apr 27 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y99	2446549.12	1986 Apr 28 1446:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1986-Y100	2446549.86	1986 Apr 29 0840:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	80	-	-
1986-Y101	2446549.91	1986 Apr 29 0946:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	84	-	-
1986-Y102	2446550.34	1986 Apr 29 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1986-W87	2446550.63	1986 Apr 30 0306:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y103	2446550.98	1986 Apr 30 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1986-Y104	2446551.30	1986 Apr 30 1907:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y105	2446552.83	1986 May 02 0756:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	87	-	-
1986-Y106	2446552.88	1986 May 02 0906:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	85	-	-
1986-Y107	2446554.83	1986 May 04 0756:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	86	-	-
1986-Y108	2446554.88	1986 May 04 0900:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	86	-	-
1986-Y109	2446557.38	1986 May 06 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1986-W90	2446557.98	1986 May 07 1136:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1986-W91	2446558.12	1986 May 07 1456:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1986-W92	2446558.17	1986 May 07 1607:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1986-Y110	2446564.38	1986 May 13 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y111	2446564.98	1986 May 14 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y112	2446565.15	1986 May 14 1530:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y113	2446565.30	1986 May 14 1915:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1986-Y114	2446571.34	1986 May 20 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1986-Y115	2446571.98	1986 May 21 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1986-W99	2446572.10	1986 May 21 1431:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1986-W100	2446572.17	1986 May 21 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y116	2446572.88	1986 May 22 0909:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	86	-	-
1986-Y117	2446572.94	1986 May 22 1036:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	85	-	-
1986-Y118	2446573.00	1986 May 22 1154:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1986-Y119	2446575.83	1986 May 25 0800:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	85	-	-
1986-Y120	2446575.88	1986 May 25 0900:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	80	-	-
1986-Y121	2446577.81	1986 May 27 0720:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	82	-	-
1986-Y122	2446578.35	1986 May 27 2020:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1986-Y123	2446578.79	1986 May 28 0703:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	84	-	-
1986-Y124	2446578.88	1986 May 28 0900:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	86	-	-
1986-Y125	2446579.15	1986 May 28 1531:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1986-W104	2446579.25	1986 May 28 1802:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1986-Y126	2446579.84	1986 May 29 0806:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	81	-	-
1986-Y127	2446579.90	1986 May 29 0935:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	82	-	-
1986-Y128	2446579.99	1986 May 29 1152:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y129	2446580.78	1986 May 30 0649:00	M-100B	-	-	-	-	-	SHIR	GMS86A	ULP1	-	-	80	-	-
1986-Y130	2446585.34	1986 Jun 03 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y131	2446585.98	1986 Jun 04 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1986-Y132	2446586.09	1986 Jun 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y133	2446586.14	1986 Jun 04 1524:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1986-Y134	2446591.20	1986 Jun 09 1655:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1986-Y135	2446591.29	1986 Jun 09 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1986-Y136	2446592.36	1986 Jun 10 2038:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1986-Y137	2446592.98	1986 Jun 11 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y138	2446593.09	1986 Jun 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1986-Y139	2446593.20	1986 Jun 11 1655:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	90	-	-
1986-Y140	2446593.29	1986 Jun 11 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y141	2446593.35	1986 Jun 11 2030:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1986-Y142	2446599.34	1986 Jun 17 2010:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1986-Y143	2446600.02	1986 Jun 18 1230:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y144	2446600.13	1986 Jun 18 1501:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y145	2446600.23	1986 Jun 18 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y146	2446606.34	1986 Jun 24 2003:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1986-Y147	2446606.99	1986 Jun 25 1150:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	90	-	-
1986-Y148	2446607.08	1986 Jun 25 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y149	2446607.09	1986 Jun 25 1412:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1986-W117	2446609.23	1986 Jun 27 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1986-Y150	2446613.34	1986 Jul 01 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	90	-	-
1986-Y151	2446614.09	1986 Jul 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y152	2446614.11	1986 Jul 02 1442:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-W119	2446614.15	1986 Jul 02 1529:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1986-W120	2446614.21	1986 Jul 02 1700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1986-Y153	2446615.07	1986 Jul 03 1340:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y154	2446619.09	1986 Jul 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y155	2446620.34	1986 Jul 08 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1986-Y156	2446620.98	1986 Jul 09 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1986-Y157	2446621.17	1986 Jul 09 1607:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1986-Y158	2446621.21	1986 Jul 09 1700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1986-Y159	2446627.99	1986 Jul 16 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y160	2446628.09	1986 Jul 16 1410:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y161	2446629.15	1986 Jul 17 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y162	2446634.34	1986 Jul 22 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1986-Y163	2446634.98	1986 Jul 23 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1986-Y164	2446635.09	1986 Jul 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1986-Y165	2446635.14	1986 Jul 23 1522:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y166	2446635.21	1986 Jul 23 1700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1986-Y167	2446636.98	1986 Jul 25 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-Y168	2446637.09	1986 Jul 25 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1986-Y170	2446640.98	1986 Jul 29 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1986-Y173	2446641.34	1986 Jul 29 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y174	2446642.09	1986 Jul 30 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-Y175	2446643.98	1986 Aug 01 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-Y178	2446647.02	1986 Aug 04 1226:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1986-Y179	2446648.34	1986 Aug 05 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1986-Y180	2446649.02	1986 Aug 06 1235:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y181	2446649.09	1986 Aug 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1986-Y182	2446649.13	1986 Aug 06 1506:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y183	2446651.12	1986 Aug 08 1447:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y184	2446652.02	1986 Aug 09 1225:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-Y185	2446655.34	1986 Aug 12 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y186	2446655.98	1986 Aug 13 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1986-W137	2446656.09	1986 Aug 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1986-Y187	2446656.85	1986 Aug 14 0830:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	88	-	-
1986-Y188	2446656.95	1986 Aug 14 1045:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	88	-	-
1986-Y189	2446657.05	1986 Aug 14 1315:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	88	-	-
1986-Y190	2446657.24	1986 Aug 14 1740:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1986-Y191	2446659.83	1986 Aug 17 0800:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	88	-	-
1986-Y192	2446659.97	1986 Aug 17 1110:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	87	-	-
1986-Y193	2446661.83	1986 Aug 19 0800:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	86	-	-
1986-Y194	2446661.88	1986 Aug 19 0900:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	87	-	-
1986-Y195	2446661.88	1986 Aug 19 0900:00	M-100B	-	-	-	-	-	VOKV	GMS86C	ULP1	-	-	88	-	-
1986-Y196	2446663.08	1986 Aug 20 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y197	2446663.12	1986 Aug 20 1453:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1986-Y198	2446663.14	1986 Aug 20 1515:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1986-Y199	2446663.17	1986 Aug 20 1600:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1986-Y200	2446663.17	1986 Aug 20 1610:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1986-Y201	2446668.11	1986 Aug 25 1432:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1986-Y202	2446669.34	1986 Aug 26 2015:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y203	2446669.98	1986 Aug 27 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-Y204	2446670.11	1986 Aug 27 1436:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1986-Y205	2446670.69	1986 Aug 28 0430:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1986-Y206	2446674.35	1986 Aug 31 2020:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1986-Y207	2446675.11	1986 Sep 01 1432:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1986-Y208	2446676.50	1986 Sep 03	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1986-Y209	2446677.09	1986 Sep 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1986-Y210	2446677.10	1986 Sep 03 1417:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1986-Y211	2446683.35	1986 Sep 09 2020:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1986-Y212	2446683.98	1986 Sep 10 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1986-Y213	2446684.09	1986 Sep 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1986-Y214	2446684.09	1986 Sep 10 1410:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1986-W157	2446690.34	1986 Sep 16 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1986-Y215	2446691.08	1986 Sep 17 1350:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1986-Y216	2446691.09	1986 Sep 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1986-Y217	2446691.98	1986 Sep 18 1136:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1986-Y218	2446697.34	1986 Sep 23 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-Y219	2446697.98	1986 Sep 24 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1986-Y220	2446698.09	1986 Sep 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1986-W170	2446698.10	1986 Sep 24 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y222	2446704.36	1986 Sep 30 2035:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1986-S138	2446704.50	1986 Oct 1	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y232	2446704.50	1986 Oct 1	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S147	2446704.50	1986 Oct 1	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S157	2446710.50	1986 Oct 7	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S148	2446711.50	1986 Oct 8	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-Y233	2446711.50	1986 Oct 8	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S139	2446711.50	1986 Oct 8	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S158	2446717.50	1986 Oct 14	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S140	2446718.50	1986 Oct 15	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S149	2446718.50	1986 Oct 15	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S141	2446719.50	1986 Oct 16	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S159	2446724.50	1986 Oct 21	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S160	2446724.50	1986 Oct 21	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S150	2446725.50	1986 Oct 22	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S142	2446725.50	1986 Oct 22	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y234	2446725.50	1986 Oct 22	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S143	2446727.50	1986 Oct 24	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S161	2446731.50	1986 Oct 28	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-Y235	2446732.50	1986 Oct 29	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S151	2446732.50	1986 Oct 29	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S152	2446737.50	1986 Nov 3	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-Y236	2446737.50	1986 Nov 3	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S162	2446738.50	1986 Nov 4	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S144	2446739.50	1986 Nov 5	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S153	2446739.50	1986 Nov 5	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S163	2446745.50	1986 Nov 11	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S154	2446746.50	1986 Nov 12	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-Y237	2446746.50	1986 Nov 12	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-S145	2446746.50	1986 Nov 12	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-S155	2446751.50	1986 Nov 17	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S164	2446752.50	1986 Nov 18	M-100B	-	-	-	-	-	-	OK	-	-	-	80?	-	-
1986-S156	2446753.50	1986 Nov 19	M-100B	-	-	-	-	-	-	MLD	-	-	-	80?	-	-
1986-S146	2446754.50	1986 Nov 20	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1986-Y238	2446734.50	1986 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-Y239	2446734.50	1986 Nov	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-Y240	2446764.50	1986 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-Y241	2446764.50	1986 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-
1986-Y242	2446764.50	1986 Dec	M-100	-	-	-	-	-	-	TERLS	-	-	-	80?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-Y01	2446797.00	1987 Jan 01 1200:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1987-W03	2446799.12	1987 Jan 03 1500:00	M-100B	-	-	-	-	-	SHIR	NER	-	-	-	77	-	-
1987-Y02	2446799.81	1987 Jan 04 0732:00	M-100B	-	-	-	-	-	SHIR	NER	-	-	-	86	-	-
1987-Y03	2446800.12	1987 Jan 04 1458:00	M-100B	-	-	-	-	-	SHIR	NER	-	-	-	84	-	-
1987-Y04	2446800.33	1987 Jan 04 2000:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-Y05	2446802.12	1987 Jan 06 1500:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP1	-	-	84	-	-
1987-Y06	2446802.34	1987 Jan 06 2015:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y07	2446802.98	1987 Jan 07 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1987-Y08	2446803.09	1987 Jan 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-Y09	2446803.12	1987 Jan 07 1457:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP2	-	-	85	-	-
1987-Y10	2446803.15	1987 Jan 07 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-W11	2446803.18	1987 Jan 07 1625:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1987-Y11	2446807.34	1987 Jan 11 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y12	2446808.25	1987 Jan 12 1800:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP3	-	-	85	-	-
1987-Y13	2446809.25	1987 Jan 13 1800:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP4	-	-	90	-	-
1987-Y14	2446809.34	1987 Jan 13 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y15	2446809.38	1987 Jan 13 2100:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP5	-	-	81	-	-
1987-W24	2446810.06	1987 Jan 14 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1987-Y16	2446810.09	1987 Jan 14 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-Y17	2446810.25	1987 Jan 14 1755:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP6	-	-	81	-	-
1987-Y19	2446811.25	1987 Jan 15 1755:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP7	-	-	83	-	-
1987-Y21	2446812.25	1987 Jan 16 1759:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP8	-	-	81	-	-
1987-Y22	2446813.21	1987 Jan 17 1700:00	M-100B	-	-	-	-	-	SHIR	GMS87B	LP9	-	-	82	-	-
1987-Y23	2446814.34	1987 Jan 18 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y26	2446816.98	1987 Jan 21 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-Y27	2446817.27	1987 Jan 21 1831:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1987-Y28	2446817.34	1987 Jan 21 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-W33	2446818.19	1987 Jan 22 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1987-Y29	2446818.25	1987 Jan 22 1757:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	85	-	-
1987-Y30	2446818.35	1987 Jan 22 2027:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	85	-	-
1987-Y31	2446820.33	1987 Jan 24 2000:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	83	-	-
1987-Y32	2446821.25	1987 Jan 25 1802:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	82	-	-
1987-Y33	2446821.34	1987 Jan 25 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y34	2446822.25	1987 Jan 26 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	87	-	-
1987-Y35	2446822.30	1987 Jan 26 1905:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	85	-	-
1987-Y36	2446823.25	1987 Jan 27 1800:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y37	2446823.29	1987 Jan 27 1900:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	83	-	-
1987-Y38	2446823.36	1987 Jan 27 2035:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y39	2446823.43	1987 Jan 27 2215:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y40	2446823.98	1987 Jan 28 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y41	2446824.09	1987 Jan 28 1404:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-Y42	2446824.25	1987 Jan 28 1800:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y43	2446824.25	1987 Jan 28 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	82	-	-
1987-Y44	2446825.25	1987 Jan 29 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	81	-	-
1987-Y45	2446825.25	1987 Jan 29 1805:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1987-Y46	2446826.25	1987 Jan 30 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	82	-	-
1987-Y47	2446826.25	1987 Jan 30 1806:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	81	-	-
1987-Y48	2446827.25	1987 Jan 31 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	88	-	-
1987-Y49	2446828.25	1987 Feb 01 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	82	-	-
1987-Y50	2446828.25	1987 Feb 01 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	83	-	-
1987-Y51	2446828.34	1987 Feb 01 2010:00	M-100B	-	-	-	-	-	-	OK	-	-	-	93	-	-
1987-Y52	2446829.25	1987 Feb 02 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	85	-	-
1987-Y53	2446829.25	1987 Feb 02 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	85	-	-
1987-Y54	2446830.25	1987 Feb 03 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	84	-	-
1987-W39	2446830.26	1987 Feb 03 1817:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	70	-	-
1987-Y55	2446830.34	1987 Feb 03 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y56	2446831.00	1987 Feb 04 1159:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-Y57	2446831.08	1987 Feb 04 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-W41	2446831.09	1987 Feb 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1987-Y58	2446831.25	1987 Feb 04 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	82	-	-
1987-Y59	2446831.29	1987 Feb 04 1900:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	82	-	-
1987-Y60	2446832.25	1987 Feb 05 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	85	-	-
1987-Y61	2446832.29	1987 Feb 05 1904:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	84	-	-
1987-Y62	2446833.25	1987 Feb 06 1800:00	M-100B	-	-	-	-	-	SHIR	SOMAP	-	-	-	83	-	-
1987-Y63	2446833.25	1987 Feb 06 1804:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	83	-	-
1987-Y64	2446834.25	1987 Feb 07 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	87	-	-
1987-Y65	2446835.25	1987 Feb 08 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	88	-	-
1987-Y66	2446835.34	1987 Feb 08 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y67	2446836.02	1987 Feb 09 1236:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1987-Y68	2446836.25	1987 Feb 09 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	82	-	-
1987-Y69	2446837.33	1987 Feb 10 2000:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	80	-	-
1987-Y70	2446838.01	1987 Feb 11 1212:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-Y71	2446838.11	1987 Feb 11 1440:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y72	2446838.14	1987 Feb 11 1523:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-Y73	2446838.25	1987 Feb 11 1805:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	83	-	-
1987-Y74	2446839.25	1987 Feb 12 1800:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	86	-	-
1987-Y76	2446842.34	1987 Feb 15 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-Y77	2446843.04	1987 Feb 16 1251:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1987-Y78	2446844.34	1987 Feb 17 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y79	2446844.98	1987 Feb 18 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-Y80	2446845.04	1987 Feb 18 1254:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y81	2446845.15	1987 Feb 18 1537:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-Y82	2446849.34	1987 Feb 22 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-Y83	2446850.05	1987 Feb 23 1305:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y84	2446850.09	1987 Feb 23 1404:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-Y85	2446851.34	1987 Feb 24 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-Y86	2446852.03	1987 Feb 25 1240:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-W52	2446852.09	1987 Feb 25 1404:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1987-Y87	2446854.08	1987 Feb 27 1350:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y88	2446856.34	1987 Mar 01 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y89	2446857.06	1987 Mar 02 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1987-Y90	2446857.09	1987 Mar 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1987-Y91	2446858.34	1987 Mar 03 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y92	2446858.98	1987 Mar 04 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-W58	2446859.06	1987 Mar 04 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1987-W59	2446859.09	1987 Mar 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y93	2446860.02	1987 Mar 05 1226:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	84	-	-
1987-W63	2446862.98	1987 Mar 08 1124:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	78	-	-
1987-Y94	2446863.38	1987 Mar 08 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y95	2446863.92	1987 Mar 09 1000:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	84	-	-
1987-W64	2446864.09	1987 Mar 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	76	-	-
1987-Y96	2446864.10	1987 Mar 09 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1987-Y97	2446865.36	1987 Mar 10 2040:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-Y98	2446865.92	1987 Mar 11 1006:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	87	-	-
1987-Y99	2446866.09	1987 Mar 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-Y100	2446866.99	1987 Mar 12 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1987-Y101	2446867.96	1987 Mar 13 1100:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	80	-	-
1987-Y102	2446870.34	1987 Mar 15 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y104	2446871.00	1987 Mar 16 1200:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	87	-	-
1987-Y105	2446871.04	1987 Mar 16 1300:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	89	-	-
1987-Y106	2446871.10	1987 Mar 16 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y107	2446872.34	1987 Mar 17 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y108	2446873.00	1987 Mar 18 1201:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	89	-	-
1987-Y109	2446873.09	1987 Mar 18 1415:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	88	-	-
1987-Y110	2446873.12	1987 Mar 18 1450:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	96	-	-
1987-Y111	2446874.00	1987 Mar 19 1205:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	90	-	-
1987-Y112	2446874.05	1987 Mar 19 1311:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	83	-	-
1987-Y113	2446875.00	1987 Mar 20 1203:00	M-100B	-	-	-	-	-	KORO	GMS87C	ULP1	-	-	91	-	-
1987-Y114	2446878.12	1987 Mar 23 1450:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y115	2446879.34	1987 Mar 24 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1987-Y116	2446879.98	1987 Mar 25 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1987-W79	2446880.12	1987 Mar 25 1500:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y117	2446880.31	1987 Mar 25 1930:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y118	2446884.34	1987 Mar 29 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y119	2446885.15	1987 Mar 30 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y120	2446886.34	1987 Mar 31 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y121	2446886.92	1987 Apr 01 1000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-W83	2446887.09	1987 Apr 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	74	-	-
1987-Y123	2446889.98	1987 Apr 04 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-Y124	2446891.34	1987 Apr 05 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-Y125	2446892.33	1987 Apr 06 2000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1987-Y126	2446893.34	1987 Apr 07 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-Y127	2446893.84	1987 Apr 08 0810:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y128	2446894.01	1987 Apr 08 1210:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y129	2446898.34	1987 Apr 12 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-Y130	2446899.10	1987 Apr 13 1426:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y131	2446900.34	1987 Apr 14 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-Y132	2446901.10	1987 Apr 15 1428:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y133	2446901.98	1987 Apr 16 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-Y134	2446905.34	1987 Apr 19 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-Y135	2446906.06	1987 Apr 20 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y136	2446906.11	1987 Apr 20 1435:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1987-Y137	2446906.16	1987 Apr 20 1545:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1987-Y138	2446907.34	1987 Apr 21 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y139	2446908.00	1987 Apr 22 1202:00	M-100B	-	-	Ion density	-	-	-	TERLS	-	-	-	89	-	-
1987-W106	2446908.09	1987 Apr 22 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y140	2446908.11	1987 Apr 22 1440:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1987-Y142	2446908.98	1987 Apr 23 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1987-Y144	2446912.34	1987 Apr 26 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y145	2446913.22	1987 Apr 27 1710:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85?	-	-
1987-Y146	2446914.34	1987 Apr 28 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y147	2446914.94	1987 Apr 29 1040:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-Y148	2446915.00	1987 Apr 29 1200:00	M-100B	-	-	Ion density	-	-	-	TERLS	-	-	-	83	-	-
1987-Y149	2446915.11	1987 Apr 29 1435:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1987-Y150	2446915.12	1987 Apr 29 1447:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y152	2446919.34	1987 May 03 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y153	2446920.12	1987 May 04 1454:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-W122	2446921.34	1987 May 05 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1987-Y154	2446921.98	1987 May 06 1138:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y155	2446922.09	1987 May 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1987-Y156	2446922.09	1987 May 06 1415:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y158	2446926.34	1987 May 10 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-Y159	2446927.13	1987 May 11 1501:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1987-Y160	2446928.34	1987 May 12 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y161	2446928.98	1987 May 13 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-W130	2446929.11	1987 May 13 1435:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1987-Y162	2446929.13	1987 May 13 1507:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y163	2446934.00	1987 May 18 1154:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP1	-	-	88	-	-
1987-Y164	2446934.98	1987 May 19 1130:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP2	-	-	87	-	-
1987-Y165	2446935.34	1987 May 19 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y166	2446935.99	1987 May 20 1140:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP3	-	-	86	-	-
1987-Y167	2446936.00	1987 May 20 1207:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-W136	2446936.09	1987 May 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y168	2446936.13	1987 May 20 1511:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y169	2446936.96	1987 May 21 1108:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP4	-	-	85	-	-
1987-Y170	2446940.01	1987 May 24 1210:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP5	-	-	88	-	-
1987-Y171	2446940.99	1987 May 25 1142:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP6	-	-	87	-	-
1987-Y172	2446942.34	1987 May 26 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y173	2446943.00	1987 May 27 1156:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-W141	2446943.09	1987 May 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y174	2446943.14	1987 May 27 1516:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y175	2446943.96	1987 May 28 1100:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP7	-	-	87	-	-
1987-W143	2446949.38	1987 Jun 02 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1987-Y176	2446949.46	1987 Jun 02 2305:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y177	2446949.98	1987 Jun 03 1125:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1987-W146	2446950.09	1987 Jun 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y178	2446950.18	1987 Jun 03 1620:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y179	2446956.99	1987 Jun 10 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-Y180	2446957.13	1987 Jun 10 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-W153	2446957.14	1987 Jun 10 1526:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1987-Y182	2446957.30	1987 Jun 10 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y183	2446960.30	1987 Jun 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y184	2446963.99	1987 Jun 17 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1987-W164	2446964.09	1987 Jun 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-Y185	2446964.19	1987 Jun 17 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y186	2446964.30	1987 Jun 17 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y187	2446967.30	1987 Jun 20 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y188	2446968.01	1987 Jun 21 1209:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP8	-	-	85	-	-
1987-Y189	2446969.04	1987 Jun 22 1300:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP9	-	-	80	-	-
1987-Y190	2446970.98	1987 Jun 24 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-Y191	2446971.01	1987 Jun 24 1213:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP10	-	-	83	-	-
1987-W171	2446971.09	1987 Jun 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1987-Y192	2446971.12	1987 Jun 24 1446:00	M-100B	-	-	-	-	-	VOKV	GMS87D	LP10	-	-	81	-	-
1987-Y194	2446972.27	1987 Jun 25 1830:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y195	2446972.35	1987 Jun 25 2020:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y196	2446974.30	1987 Jun 27 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-W176	2446978.09	1987 Jul 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1987-Y198	2446978.15	1987 Jul 01 1534:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y199	2446978.30	1987 Jul 01 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1987-Y205	2446978.98	1987 Jul 02 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y207	2446981.30	1987 Jul 04 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y209	2446984.98	1987 Jul 08 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y211	2446985.09	1987 Jul 08 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-W181	2446985.15	1987 Jul 08 1534:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1987-Y212	2446985.30	1987 Jul 08 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y214	2446988.30	1987 Jul 11 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y215	2446990.09	1987 Jul 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1987-Y228	2446991.98	1987 Jul 15 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-W187	2446992.13	1987 Jul 15 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1987-Y232	2446992.14	1987 Jul 15 1526:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1987-Y233	2446992.30	1987 Jul 15 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-Y242	2446995.30	1987 Jul 18 1907:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y245	2446997.80	1987 Jul 21 0707:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1987-Y246	2446998.30	1987 Jul 21 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-Y247	2446998.98	1987 Jul 22 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1987-Y248	2446999.09	1987 Jul 22 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-Y249	2446999.15	1987 Jul 22 1542:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y250	2446999.24	1987 Jul 22 1740:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1987-Y251	2446999.27	1987 Jul 22 1835:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y252	2447000.98	1987 Jul 24 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-Y253	2447003.98	1987 Jul 27 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-Y254	2447004.09	1987 Jul 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1987-Y255	2447005.30	1987 Jul 28 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y256	2447005.98	1987 Jul 29 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-W200	2447006.09	1987 Jul 29 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1987-W201	2447007.20	1987 Jul 30 1645:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1987-Y257	2447007.98	1987 Jul 31 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y258	2447010.98	1987 Aug 03 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-Y259	2447011.09	1987 Aug 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-Y260	2447012.30	1987 Aug 04 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y261	2447012.98	1987 Aug 05 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1987-Y262	2447013.13	1987 Aug 05 1506:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y263	2447013.13	1987 Aug 05 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1987-Y264	2447013.17	1987 Aug 05 1610:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1987-Y265	2447019.30	1987 Aug 11 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	90	-	-
1987-Y266	2447019.98	1987 Aug 12 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1987-Y267	2447020.09	1987 Aug 12 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-W207	2447020.19	1987 Aug 12 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1987-Y268	2447026.30	1987 Aug 18 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-W213	2447027.11	1987 Aug 19 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1987-Y269	2447027.12	1987 Aug 19 1450:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y270	2447031.30	1987 Aug 23 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y271	2447032.10	1987 Aug 24 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y272	2447033.30	1987 Aug 25 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y273	2447033.98	1987 Aug 26 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1987-Y274	2447034.09	1987 Aug 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1987-Y275	2447034.10	1987 Aug 26 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y276	2447038.30	1987 Aug 30 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-Y277	2447039.17	1987 Aug 31 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y278	2447040.30	1987 Sep 01 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1987-Y279	2447040.98	1987 Sep 02 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1987-Y280	2447041.11	1987 Sep 02 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-Y281	2447045.30	1987 Sep 06 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-W221	2447046.09	1987 Sep 07 1410:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	70	-	-
1987-Y283	2447047.30	1987 Sep 08 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y284	2447048.09	1987 Sep 09 1405:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y285	2447048.09	1987 Sep 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1987-Y286	2447052.30	1987 Sep 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1987-Y287	2447052.42	1987 Sep 13 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y288	2447054.30	1987 Sep 15 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y289	2447055.07	1987 Sep 16 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y290	2447055.17	1987 Sep 16 1600:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1987-Y291	2447061.98	1987 Sep 23 1132:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-W237	2447062.07	1987 Sep 23 1334:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1987-Y292	2447062.30	1987 Sep 23 1905:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1987-Y293	2447068.30	1987 Sep 29 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1987-Y294	2447069.06	1987 Sep 30 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y295	2447069.09	1987 Sep 30 1411:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1987-Y296	2447075.30	1987 Oct 06 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1987-Y297	2447075.98	1987 Oct 07 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1987-Y298	2447076.09	1987 Oct 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-Y299	2447081.30	1987 Oct 12 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y300	2447083.09	1987 Oct 14 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1987-W252	2447083.15	1987 Oct 14 1530:00	M-100B	-	M-100B	-	-	-	-	GTsP-4	-	-	-	77	-	-
1987-Y301	2447083.30	1987 Oct 14 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-W255	2447085.06	1987 Oct 16 1320:00	M-100B	-	M-100B	-	-	-	-	GTsP-4	-	-	-	79	-	-
1987-Y307	2447085.30	1987 Oct 16 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-Y308	2447088.02	1987 Oct 19 1235:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y309	2447088.30	1987 Oct 19 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y310	2447089.98	1987 Oct 21 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85?	-	-
1987-W257	2447090.13	1987 Oct 21 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-A16	2447090.30	1987 Oct 21 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	20	-	-
1987-W258	2447091.00	1987 Oct 22 1200:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	78	-	-
1987-W261	2447092.00	1987 Oct 23 1200:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	78	-	-
1987-Y317	2447092.02	1987 Oct 23 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y318	2447092.30	1987 Oct 23 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y319	2447092.96	1987 Oct 24 1100:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	85	-	-
1987-Y320	2447094.92	1987 Oct 26 1001:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	83	-	-
1987-Y321	2447095.02	1987 Oct 26 1222:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y322	2447095.12	1987 Oct 26 1500:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-A17	2447095.30	1987 Oct 26 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	20	-	-
1987-Y323	2447096.00	1987 Oct 27 1204:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	80	-	-
1987-W264	2447096.99	1987 Oct 28 1144:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	77	-	-
1987-Y326	2447096.99	1987 Oct 28 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1987-Y327	2447097.17	1987 Oct 28 1610:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-W265	2447097.20	1987 Oct 28 1653:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	76	-	-
1987-Y328	2447097.30	1987 Oct 28 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y329	2447099.19	1987 Oct 30 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1987-Y330	2447099.30	1987 Oct 30 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y332	2447102.00	1987 Nov 02 1204:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y333	2447102.30	1987 Nov 02 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y334	2447104.06	1987 Nov 04 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1987-Y335	2447104.09	1987 Nov 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1987-Y336	2447104.30	1987 Nov 04 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-Y337	2447105.72	1987 Nov 06 0522:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1987-Y338	2447106.30	1987 Nov 06 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-W271	2447108.99	1987 Nov 09 1152:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1987-Y339	2447109.09	1987 Nov 09 1416:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1987-Y340	2447109.38	1987 Nov 09 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y341	2447111.07	1987 Nov 11 1335:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1987-W273	2447111.09	1987 Nov 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1987-W274	2447111.12	1987 Nov 11 1448:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1987-Y342	2447111.30	1987 Nov 11 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y347	2447113.04	1987 Nov 13 1258:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	81	-	-
1987-Y348	2447113.30	1987 Nov 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-W276	2447114.02	1987 Nov 14 1234:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	78	-	-
1987-Y349	2447115.01	1987 Nov 15 1218:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	84	-	-
1987-W277	2447116.08	1987 Nov 16 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1987-Y350	2447116.09	1987 Nov 16 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1987-Y351	2447116.30	1987 Nov 16 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1987-Y352	2447118.17	1987 Nov 18 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1987-Y353	2447118.23	1987 Nov 18 1731:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-W280	2447118.30	1987 Nov 18 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	76	-	-
1987-Y354	2447119.98	1987 Nov 20 1132:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1987-Y355	2447120.30	1987 Nov 20 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1987-W283	2447120.97	1987 Nov 21 1122:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	74	-	-
1987-Y356	2447122.95	1987 Nov 23 1044:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	85	-	-
1987-W284	2447124.12	1987 Nov 24 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1987-Y357	2447124.30	1987 Nov 24 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y360	2447128.88	1987 Nov 29 0907:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	83	-	-
1987-Y361	2447129.80	1987 Nov 30 0705:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	82	-	-
1987-Y362	2447130.88	1987 Dec 01 0902:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	83	-	-
1987-Y363	2447131.30	1987 Dec 01 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1987-W294	2447131.88	1987 Dec 02 0911:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-W295	2447131.98	1987 Dec 02 1130:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1987-Y364	2447132.08	1987 Dec 02 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1987-Y365	2447132.64	1987 Dec 03 0320:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	88	-	-
1987-Y366	2447133.08	1987 Dec 03 1400:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	84	-	-
1987-Y367	2447134.64	1987 Dec 05 0320:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	85?	-	-
1987-Y368	2447134.85	1987 Dec 05 0820:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	80	-	-
1987-Y369	2447134.91	1987 Dec 05 0950:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	85?	-	-
1987-Y370	2447135.09	1987 Dec 05 1407:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	82	-	-
1987-W299	2447135.18	1987 Dec 05 1615:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	74	-	-
1987-Y371	2447135.24	1987 Dec 05 1745:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	85?	-	-
1987-Y372	2447135.29	1987 Dec 05 1853:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	82	-	-
1987-Y373	2447135.44	1987 Dec 05 2230:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	85?	-	-
1987-Y374	2447136.91	1987 Dec 07 0952:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	85?	-	-
1987-W300	2447136.92	1987 Dec 07 1005:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	76	-	-
1987-Y375	2447137.08	1987 Dec 07 1400:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	83	-	-
1987-Y376	2447137.17	1987 Dec 07 1600:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	80	-	-
1987-Y377	2447137.25	1987 Dec 07 1804:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	88	-	-
1987-Y378	2447137.45	1987 Dec 07 2255:00	M-100B	-	-	Ozone Diurnal	-	-	-	TERLS	-	-	-	84	-	-
1987-Y379	2447138.30	1987 Dec 08 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1987-W304	2447138.93	1987 Dec 09 1017:00	M-100B	-	-	-	-	-	SHIR	GMS87F	ULP1	-	-	79	-	-
1987-Y380	2447139.08	1987 Dec 09 1356:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y381	2447139.12	1987 Dec 09 1500:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1987-Y382	2447145.30	1987 Dec 15 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1987-W311	2447145.97	1987 Dec 16 1120:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1987-Y383	2447146.08	1987 Dec 16 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1987-Y384	2447152.30	1987 Dec 22 1910:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1987-Y385	2447152.74	1987 Dec 23 0540:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1987-Y386	2447153.09	1987 Dec 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1987-Y387	2447157.30	1987 Dec 27 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1987-Y388	2447159.30	1987 Dec 29 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1987-Y389	2447159.77	1987 Dec 30 0630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1987-Y390	2447160.09	1987 Dec 30 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y01	2447166.92	1988 Jan 06 1000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-Y02	2447167.09	1988 Jan 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1988-Y03	2447167.30	1988 Jan 06 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1988-Y04	2447171.98	1988 Jan 11 1137:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y05	2447172.30	1988 Jan 11 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y06	2447174.04	1988 Jan 13 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y07	2447174.09	1988 Jan 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1988-Y08	2447174.10	1988 Jan 13 1420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1988-Y09	2447174.30	1988 Jan 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y10	2447174.39	1988 Jan 13 2125:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y11	2447174.97	1988 Jan 14 1117:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	85	-	-
1988-Y12	2447179.30	1988 Jan 18 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1988-W04	2447179.42	1988 Jan 18 2205:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y13	2447179.42	1988 Jan 18 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1988-Y14	2447179.55	1988 Jan 19 0105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1988-Y15	2447179.57	1988 Jan 19 0135:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-W05	2447179.67	1988 Jan 19 0405:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y16	2447179.67	1988 Jan 19 0405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y17	2447179.80	1988 Jan 19 0705:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y18	2447179.80	1988 Jan 19 0705:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-W06	2447179.92	1988 Jan 19 1005:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1988-Y19	2447179.92	1988 Jan 19 1005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-W07	2447180.05	1988 Jan 19 1305:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1988-Y20	2447180.05	1988 Jan 19 1305:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-W08	2447180.17	1988 Jan 19 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1988-Y21	2447180.17	1988 Jan 19 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y22	2447180.30	1988 Jan 19 1905:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y23	2447180.30	1988 Jan 19 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-Y24	2447181.09	1988 Jan 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1988-Y25	2447181.30	1988 Jan 20 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1988-Y26	2447181.42	1988 Jan 20 2205:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y27	2447181.42	1988 Jan 20 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y28	2447181.55	1988 Jan 21 0105:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y29	2447181.57	1988 Jan 21 0135:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-W11	2447181.67	1988 Jan 21 0405:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y30	2447181.67	1988 Jan 21 0405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-W12	2447181.80	1988 Jan 21 0705:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y31	2447181.82	1988 Jan 21 0735:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y32	2447181.92	1988 Jan 21 1005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-W15	2447182.05	1988 Jan 21 1305:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y33	2447182.05	1988 Jan 21 1305:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-W16	2447182.17	1988 Jan 21 1605:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y34	2447182.17	1988 Jan 21 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y35	2447182.30	1988 Jan 21 1905:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y36	2447182.30	1988 Jan 21 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-W18	2447186.04	1988 Jan 25 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y37	2447186.30	1988 Jan 25 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y38	2447187.98	1988 Jan 27 1125:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	88	-	-
1988-W19	2447188.06	1988 Jan 27 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1988-W20	2447188.09	1988 Jan 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1988-Y39	2447188.30	1988 Jan 27 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y40	2447188.42	1988 Jan 27 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-W22	2447193.01	1988 Feb 01 1220:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1988-W24	2447194.30	1988 Feb 02 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	77	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-Y42	2447195.02	1988 Feb 03 1222:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1988-Y43	2447195.30	1988 Feb 03 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y44	2447195.38	1988 Feb 03 2100:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-Y46	2447200.30	1988 Feb 08 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y47	2447201.98	1988 Feb 10 1138:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1988-Y48	2447202.07	1988 Feb 10 1345:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1988-Y49	2447202.22	1988 Feb 10 1712:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1988-Y50	2447202.30	1988 Feb 10 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y51	2447207.06	1988 Feb 15 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1988-Y52	2447207.30	1988 Feb 15 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y53	2447209.04	1988 Feb 17 1253:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y54	2447209.30	1988 Feb 17 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y55	2447209.46	1988 Feb 17 2300:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1988-Y56	2447214.04	1988 Feb 22 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y57	2447214.30	1988 Feb 22 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-Y58	2447216.04	1988 Feb 24 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1988-W40	2447216.32	1988 Feb 24 1945:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1988-Y59	2447216.42	1988 Feb 24 2207:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y62	2447221.06	1988 Feb 29 1327:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1988-Y63	2447221.30	1988 Feb 29 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y64	2447223.06	1988 Mar 02 1331:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-W50	2447223.30	1988 Mar 02 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	76	-	-
1988-Y65	2447223.38	1988 Mar 02 2100:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y66	2447224.00	1988 Mar 03 1156:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1988-Y67	2447229.30	1988 Mar 08 1910:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y68	2447229.98	1988 Mar 09 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-W54	2447230.07	1988 Mar 09 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y69	2447230.38	1988 Mar 09 2100:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1988-Y70	2447236.30	1988 Mar 15 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y71	2447237.07	1988 Mar 16 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y72	2447237.09	1988 Mar 16 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1988-W59	2447237.98	1988 Mar 17 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1988-Y73	2447239.14	1988 Mar 18 1519:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	84	-	-
1988-Y74	2447239.19	1988 Mar 18 1634:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	80	-	-
1988-W62	2447241.18	1988 Mar 20 1624:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	74	-	-
1988-Y75	2447243.15	1988 Mar 22 1541:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	85	-	-
1988-Y76	2447243.99	1988 Mar 23 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y77	2447244.08	1988 Mar 23 1356:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y78	2447244.09	1988 Mar 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1988-Y79	2447244.16	1988 Mar 23 1551:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	85	-	-
1988-Y80	2447244.36	1988 Mar 23 2036:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y81	2447250.98	1988 Mar 30 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y82	2447251.08	1988 Mar 30 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y83	2447251.10	1988 Mar 30 1417:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y84	2447251.14	1988 Mar 30 1525:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1988-Y85	2447251.21	1988 Mar 30 1700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1988-Y86	2447251.34	1988 Mar 30 2005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y87	2447252.20	1988 Mar 31 1651:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	82	-	-
1988-Y88	2447257.18	1988 Apr 05 1620:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	80	-	-
1988-Y89	2447257.90	1988 Apr 06 0930:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1988-W73	2447257.96	1988 Apr 06 1100:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y90	2447257.98	1988 Apr 06 1137:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y91	2447258.09	1988 Apr 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y92	2447258.15	1988 Apr 06 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-Y93	2447258.17	1988 Apr 06 1602:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	80	-	-
1988-Y94	2447258.20	1988 Apr 06 1650:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1988-Y95	2447258.33	1988 Apr 06 1953:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1988-W75	2447259.17	1988 Apr 07 1604:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	77	-	-
1988-W79	2447263.16	1988 Apr 11 1554:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	76	-	-
1988-Y96	2447264.18	1988 Apr 12 1615:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	81	-	-
1988-W82	2447264.98	1988 Apr 13 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1988-Y97	2447265.09	1988 Apr 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-W84	2447265.10	1988 Apr 13 1427:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y98	2447265.30	1988 Apr 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1988-Y99	2447272.09	1988 Apr 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1988-Y100	2447272.11	1988 Apr 20 1435:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-W95	2447272.17	1988 Apr 20 1607:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1988-Y101	2447272.18	1988 Apr 20 1620:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y102	2447272.30	1988 Apr 20 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1988-Y103	2447272.38	1988 Apr 20 2105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y104	2447272.98	1988 Apr 21 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y105	2447274.20	1988 Apr 22 1645:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1988-Y106	2447278.98	1988 Apr 27 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-W99	2447279.08	1988 Apr 27 1400:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1988-Y107	2447279.14	1988 Apr 27 1522:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-W100	2447279.17	1988 Apr 27 1609:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	79	-	-
1988-Y108	2447279.20	1988 Apr 27 1650:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y109	2447279.30	1988 Apr 27 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y110	2447282.00	1988 Apr 30 1200:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	86	-	-
1988-W101	2447284.10	1988 May 02 1430:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	77	-	-
1988-W102	2447285.08	1988 May 03 1358:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	78	-	-
1988-Y111	2447285.86	1988 May 04 0842:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y112	2447285.98	1988 May 04 1134:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y113	2447286.08	1988 May 04 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-W103	2447286.08	1988 May 04 1400:00	M-100B	-	-	-	-	-	SHIR	GMS88A	ULP1	-	-	77	-	-
1988-Y114	2447286.25	1988 May 04 1803:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-Y115	2447292.96	1988 May 11 1109:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y116	2447292.99	1988 May 11 1142:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y117	2447293.14	1988 May 11 1525:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y118	2447293.30	1988 May 11 1915:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-W107	2447299.86	1988 May 18 0836:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1988-Y119	2447299.92	1988 May 18 1000:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-W108	2447300.15	1988 May 18 1540:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1988-Y120	2447300.25	1988 May 18 1807:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1988-Y121	2447300.99	1988 May 19 1151:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y122	2447306.96	1988 May 25 1104:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y123	2447306.98	1988 May 25 1138:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y124	2447307.27	1988 May 25 1831:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1988-Y125	2447307.33	1988 May 25 1950:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y126	2447307.35	1988 May 25 2031:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1988-Y127	2447313.85	1988 Jun 01 0831:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y128	2447313.98	1988 Jun 01 1136:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y129	2447314.08	1988 Jun 01 1354:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y130	2447314.17	1988 Jun 01 1601:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y131	2447319.09	1988 Jun 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y132	2447320.86	1988 Jun 08 0841:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y133	2447320.96	1988 Jun 08 1059:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y134	2447320.98	1988 Jun 08 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y135	2447321.17	1988 Jun 08 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y136	2447327.85	1988 Jun 15 0827:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y137	2447327.99	1988 Jun 15 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y138	2447328.18	1988 Jun 15 1620:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y139	2447328.24	1988 Jun 15 1749:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y140	2447330.11	1988 Jun 17 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1988-Y141	2447333.09	1988 Jun 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1988-Y142	2447334.95	1988 Jun 22 1054:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y143	2447334.99	1988 Jun 22 1148:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y144	2447335.23	1988 Jun 22 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y145	2447335.27	1988 Jun 22 1836:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-W131	2447340.09	1988 Jun 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1988-Y146	2447341.98	1988 Jun 29 1135:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y147	2447341.99	1988 Jun 29 1145:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y148	2447342.17	1988 Jun 29 1610:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-W133	2447342.24	1988 Jun 29 1744:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1988-Y149	2447347.09	1988 Jul 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1988-Y150	2447348.97	1988 Jul 06 1117:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y151	2447348.98	1988 Jul 06 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y152	2447349.13	1988 Jul 06 1503:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y153	2447349.27	1988 Jul 06 1832:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1988-Y154	2447354.11	1988 Jul 11 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y155	2447354.30	1988 Jul 11 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-Y156	2447354.38	1988 Jul 11 2100:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y157	2447354.42	1988 Jul 11 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y158	2447354.50	1988 Jul 12 0000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y159	2447354.55	1988 Jul 12 0105:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y160	2447354.62	1988 Jul 12 0300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y161	2447354.75	1988 Jul 12 0600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y162	2447354.80	1988 Jul 12 0705:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-Y163	2447354.88	1988 Jul 12 0900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y164	2447354.92	1988 Jul 12 1005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y165	2447355.05	1988 Jul 12 1305:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-W135	2447355.06	1988 Jul 12 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	71	-	-
1988-Y166	2447355.09	1988 Jul 12 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y167	2447355.12	1988 Jul 12 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y168	2447355.17	1988 Jul 12 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y169	2447355.25	1988 Jul 12 1800:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y170	2447355.38	1988 Jul 12 2100:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y171	2447355.50	1988 Jul 13 0000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y172	2447355.62	1988 Jul 13 0300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y173	2447355.71	1988 Jul 13 0500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y174	2447355.88	1988 Jul 13 0900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y175	2447355.99	1988 Jul 13 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y176	2447356.00	1988 Jul 13 1200:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1988-Y177	2447356.12	1988 Jul 13 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y178	2447356.24	1988 Jul 13 1739:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y179	2447356.25	1988 Jul 13 1800:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y180	2447356.30	1988 Jul 13 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y181	2447356.42	1988 Jul 13 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y182	2447356.54	1988 Jul 14 0103:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y183	2447356.69	1988 Jul 14 0428:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y184	2447356.80	1988 Jul 14 0706:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y185	2447356.92	1988 Jul 14 1005:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y186	2447357.13	1988 Jul 14 1507:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y187	2447361.09	1988 Jul 18 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1988-Y188	2447362.99	1988 Jul 20 1140:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y189	2447363.14	1988 Jul 20 1520:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y190	2447363.14	1988 Jul 20 1524:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1988-Y191	2447363.17	1988 Jul 20 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y192	2447368.09	1988 Jul 25 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1988-Y193	2447369.98	1988 Jul 27 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y194	2447370.09	1988 Jul 27 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y195	2447370.13	1988 Jul 27 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-Y196	2447370.14	1988 Jul 27 1516:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-W139	2447375.09	1988 Aug 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1988-Y197	2447376.98	1988 Aug 03 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y198	2447377.09	1988 Aug 03 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y199	2447377.09	1988 Aug 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-W140	2447377.33	1988 Aug 03 2000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1988-Y200	2447384.00	1988 Aug 10 1159:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y201	2447384.09	1988 Aug 10 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y202	2447384.09	1988 Aug 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-W143	2447389.10	1988 Aug 15 1420:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1988-Y203	2447390.98	1988 Aug 17 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y204	2447391.09	1988 Aug 17 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1988-Y205	2447391.09	1988 Aug 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-W145	2447391.29	1988 Aug 17 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1988-Y206	2447398.02	1988 Aug 24 1225:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y207	2447398.09	1988 Aug 24 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-W148	2447398.09	1988 Aug 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1988-Y208	2447398.16	1988 Aug 24 1550:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-Y210	2447404.98	1988 Aug 31 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y211	2447405.09	1988 Aug 31 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y212	2447405.09	1988 Aug 31 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y213	2447405.10	1988 Aug 31 1421:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1988-Y214	2447411.99	1988 Sep 07 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1988-Y215	2447412.09	1988 Sep 07 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y216	2447412.09	1988 Sep 07 1409:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y217	2447412.10	1988 Sep 07 1420:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1988-Y218	2447414.60	1988 Sep 10 0230:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1988-Y219	2447415.01	1988 Sep 10 1215:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	87	-	-
1988-Y220	2447415.05	1988 Sep 10 1315:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y221	2447418.98	1988 Sep 14 1128:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-W160	2447419.08	1988 Sep 14 1355:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1988-Y222	2447419.09	1988 Sep 14 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1988-Y223	2447419.09	1988 Sep 14 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-Y225	2447425.98	1988 Sep 21 1127:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1988-Y226	2447426.09	1988 Sep 21 1405:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1988-Y227	2447426.09	1988 Sep 21 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-W166	2447426.10	1988 Sep 21 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1988-Y228	2447432.99	1988 Sep 28 1139:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-W170	2447433.09	1988 Sep 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1988-Y229	2447433.13	1988 Sep 28 1514:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1988-Y230	2447433.15	1988 Sep 28 1536:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1988-Y235	2447439.97	1988 Oct 05 1117:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1988-Y236	2447440.09	1988 Oct 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1988-Y237	2447440.13	1988 Oct 05 1510:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y238	2447440.33	1988 Oct 05 2000:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1988-Y239	2447446.97	1988 Oct 12 1111:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y240	2447447.04	1988 Oct 12 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1988-Y241	2447447.11	1988 Oct 12 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1988-Y242	2447447.13	1988 Oct 12 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1988-Y243	2447453.21	1988 Oct 18 1700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1988-Y244	2447453.29	1988 Oct 18 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-Y245	2447453.96	1988 Oct 19 1107:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y246	2447454.09	1988 Oct 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y247	2447454.13	1988 Oct 19 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1988-Y248	2447460.96	1988 Oct 26 1103:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y249	2447461.09	1988 Oct 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-Y250	2447461.13	1988 Oct 26 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1988-Y252	2447467.96	1988 Nov 02 1101:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y253	2447468.09	1988 Nov 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-Y254	2447468.19	1988 Nov 02 1635:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y255	2447475.09	1988 Nov 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1988-Y256	2447475.13	1988 Nov 09 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1988-Y257	2447475.96	1988 Nov 10 1059:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-W196	2447480.67	1988 Nov 15 0410:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1988-Y258	2447480.73	1988 Nov 15 0530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1988-Y259	2447480.78	1988 Nov 15 0650:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1988-Y260	2447481.96	1988 Nov 16 1057:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1988-Y261	2447482.09	1988 Nov 16 1414:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1988-Y262	2447482.13	1988 Nov 16 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1988-Y263	2447483.19	1988 Nov 17 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1988-Y264	2447483.23	1988 Nov 17 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1988-Y265	2447488.23	1988 Nov 22 1730:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1988-Y266	2447488.29	1988 Nov 22 1900:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-W202	2447488.96	1988 Nov 23 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1988-Y267	2447489.09	1988 Nov 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1988-Y268	2447489.13	1988 Nov 23 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y269	2447489.35	1988 Nov 23 2030:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1988-Y270	2447495.96	1988 Nov 30 1057:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-Y271	2447495.97	1988 Nov 30 1115:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1988-Y272	2447496.09	1988 Nov 30 1412:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1988-Y273	2447496.13	1988 Nov 30 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1988-Y281	2447502.92	1988 Dec 07 1001:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1988-W215	2447502.97	1988 Dec 07 1115:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1988-Y282	2447503.13	1988 Dec 07 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	89	-	-
1988-Y283	2447509.96	1988 Dec 14 1101:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1988-W217	2447510.09	1988 Dec 14 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-Y284	2447510.13	1988 Dec 14 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1988-Y285	2447516.96	1988 Dec 21 1101:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y286	2447517.09	1988 Dec 21 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1988-Y287	2447517.13	1988 Dec 21 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1988-Y288	2447522.98	1988 Dec 27 1134:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	82	-	-
1988-Y289	2447523.96	1988 Dec 28 1108:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1988-Y290	2447524.09	1988 Dec 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1988-W230	2447524.13	1988 Dec 28 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1989-Y01	2447530.78	1989 Jan 04 0638:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y02	2447531.09	1989 Jan 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-W07	2447531.13	1989 Jan 04 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1989-Y03	2447535.98	1989 Jan 09 1125:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-Y04	2447537.78	1989 Jan 11 0650:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	86	-	-
1989-W21	2447537.97	1989 Jan 11 1116:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1989-Y05	2447538.13	1989 Jan 11 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y06	2447542.99	1989 Jan 16 1141:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1989-Y07	2447542.99	1989 Jan 16 1152:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y08	2447543.13	1989 Jan 16 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y09	2447544.08	1989 Jan 17 1400:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	80	-	-
1989-Y10	2447544.79	1989 Jan 18 0704:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1989-Y11	2447544.98	1989 Jan 18 1127:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y12	2447545.06	1989 Jan 18 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1989-Y13	2447545.11	1989 Jan 18 1437:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1989-Y14	2447545.13	1989 Jan 18 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y15	2447545.21	1989 Jan 18 1707:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1989-Y16	2447547.06	1989 Jan 20 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y17	2447547.67	1989 Jan 21 0400:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	81	-	-
1989-Y18	2447549.96	1989 Jan 23 1100:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y19	2447550.03	1989 Jan 23 1238:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y20	2447550.13	1989 Jan 23 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-W33	2447550.92	1989 Jan 24 1000:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	77	-	-
1989-Y21	2447551.80	1989 Jan 25 0719:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y22	2447551.99	1989 Jan 25 1146:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	84	-	-
1989-Y23	2447552.05	1989 Jan 25 1316:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-W38	2447552.13	1989 Jan 25 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1989-W40	2447552.96	1989 Jan 26 1100:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	78	-	-
1989-Y25	2447557.16	1989 Jan 30 1555:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y26	2447558.81	1989 Feb 01 0733:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	85	-	-
1989-Y27	2447558.98	1989 Feb 01 1133:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-Y28	2447559.09	1989 Feb 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1989-Y29	2447559.10	1989 Feb 01 1420:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1989-Y30	2447559.11	1989 Feb 01 1440:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1989-Y31	2447559.13	1989 Feb 01 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1989-Y32	2447559.33	1989 Feb 01 2000:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	83	-	-
1989-W48	2447561.12	1989 Feb 03 1500:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	67	-	-
1989-Y33	2447561.13	1989 Feb 03 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y34	2447563.98	1989 Feb 06 1131:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-Y35	2447564.02	1989 Feb 06 1229:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y36	2447564.13	1989 Feb 06 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-Y37	2447565.82	1989 Feb 08 0747:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y38	2447565.98	1989 Feb 08 1131:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-W51	2447566.02	1989 Feb 08 1234:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1989-Y39	2447566.14	1989 Feb 08 1527:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y40	2447566.23	1989 Feb 08 1735:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y41	2447566.35	1989 Feb 08 2020:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y42	2447566.41	1989 Feb 08 2145:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-W52	2447566.86	1989 Feb 09 0840:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	77	-	-
1989-Y43	2447568.03	1989 Feb 10 1240:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	84	-	-
1989-W54	2447568.13	1989 Feb 10 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1989-Y44	2447570.98	1989 Feb 13 1133:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-Y45	2447571.03	1989 Feb 13 1247:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y46	2447571.13	1989 Feb 13 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y47	2447572.99	1989 Feb 15 1141:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-Y48	2447573.08	1989 Feb 15 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y49	2447573.09	1989 Feb 15 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	91	-	-
1989-Y50	2447573.13	1989 Feb 15 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y51	2447573.21	1989 Feb 15 1705:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y52	2447573.29	1989 Feb 15 1855:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y53	2447573.84	1989 Feb 16 0810:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1989-Y54	2447575.04	1989 Feb 17 1254:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y55	2447575.16	1989 Feb 17 1555:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1989-Y56	2447578.13	1989 Feb 20 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y57	2447578.14	1989 Feb 20 1523:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y58	2447578.22	1989 Feb 20 1720:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y59	2447578.30	1989 Feb 20 1905:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y60	2447580.13	1989 Feb 22 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-W64	2447580.14	1989 Feb 22 1525:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	74	-	-
1989-Y61	2447580.19	1989 Feb 22 1640:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y62	2447581.91	1989 Feb 24 0945:00	M-100B	-	-	-	-	-	-	OK	-	-	-	90	-	-
1989-W67	2447582.13	1989 Feb 24 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	76	-	-
1989-Y63	2447585.15	1989 Feb 27 1532:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1989-Y64	2447585.17	1989 Feb 27 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y65	2447586.87	1989 Mar 01 0858:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y66	2447587.09	1989 Mar 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1989-Y67	2447587.13	1989 Mar 01 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y68	2447587.20	1989 Mar 01 1650:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-W72	2447587.26	1989 Mar 01 1820:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1989-Y69	2447588.10	1989 Mar 02 1417:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y70	2447588.85	1989 Mar 03 0825:00	M-100B	-	-	-	-	-	-	OK	-	-	-	95	-	-
1989-Y71	2447589.29	1989 Mar 03 1903:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y72	2447593.13	1989 Mar 07 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y73	2447593.90	1989 Mar 08 0940:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y74	2447595.09	1989 Mar 09 1415:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-W75	2447596.13	1989 Mar 10 1514:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	78	-	-
1989-W79	2447599.17	1989 Mar 13 1605:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	78	-	-
1989-W85	2447601.09	1989 Mar 15 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	74	-	-
1989-Y77	2447601.13	1989 Mar 15 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1989-W87	2447601.16	1989 Mar 15 1545:00	M-100B	-	-	-	-	-	KORO	GMS89A	ULP1	-	-	79	-	-
1989-Y78	2447601.90	1989 Mar 16 0931:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y80	2447603.07	1989 Mar 17 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	89	-	-
1989-Y84	2447607.91	1989 Mar 22 0946:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y85	2447608.08	1989 Mar 22 1354:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y86	2447614.87	1989 Mar 29 0857:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	85	-	-
1989-Y87	2447615.09	1989 Mar 29 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1989-Y88	2447615.09	1989 Mar 29 1410:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1989-Y89	2447615.13	1989 Mar 29 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1989-Y90	2447620.02	1989 Apr 03 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1989-Y91	2447621.88	1989 Apr 05 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1989-W105	2447622.13	1989 Apr 05 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	79	-	-
1989-Y92	2447627.17	1989 Apr 10 1600:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y93	2447629.09	1989 Apr 12 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y94	2447629.11	1989 Apr 12 1436:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y95	2447629.13	1989 Apr 12 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y96	2447629.97	1989 Apr 13 1123:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-W110	2447635.88	1989 Apr 19 0914:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	79	-	-
1989-Y97	2447636.13	1989 Apr 19 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y98	2447643.09	1989 Apr 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y99	2447643.13	1989 Apr 26 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-Y100	2447644.07	1989 Apr 27 1340:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1989-Y103	2447649.89	1989 May 03 0927:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y104	2447650.12	1989 May 03 1452:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y105	2447650.13	1989 May 03 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y106	2447650.88	1989 May 04 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-W124	2447650.98	1989 May 04 1133:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1989-Y116	2447656.97	1989 May 10 1120:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-W137	2447657.09	1989 May 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1989-Y117	2447657.12	1989 May 10 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1989-Y118	2447657.13	1989 May 10 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	92	-	-
1989-Y119	2447657.93	1989 May 11 1021:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	85	-	-
1989-Y120	2447663.92	1989 May 17 1000:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y121	2447663.96	1989 May 17 1102:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1989-Y122	2447664.13	1989 May 17 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-Y123	2447664.24	1989 May 17 1745:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-W148	2447670.91	1989 May 24 0954:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	79	-	-
1989-Y124	2447670.99	1989 May 24 1152:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y125	2447671.09	1989 May 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	89	-	-
1989-W151	2447671.13	1989 May 24 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	64	-	-
1989-Y126	2447671.18	1989 May 24 1620:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y127	2447677.94	1989 May 31 1027:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y128	2447677.97	1989 May 31 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y129	2447678.13	1989 May 31 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-W153	2447678.18	1989 May 31 1621:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1989-W154	2447679.05	1989 Jun 01 1306:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1989-Y130	2447684.92	1989 Jun 07 0958:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	85	-	-
1989-W159	2447684.98	1989 Jun 07 1130:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1989-Y131	2447685.09	1989 Jun 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1989-Y132	2447685.13	1989 Jun 07 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y133	2447687.08	1989 Jun 09 1400:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y134	2447691.92	1989 Jun 14 1005:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	85	-	-
1989-W163	2447691.97	1989 Jun 14 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1989-W165	2447692.13	1989 Jun 14 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	77	-	-
1989-W166	2447692.19	1989 Jun 14 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1989-W172	2447698.92	1989 Jun 21 1008:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	78	-	-
1989-W173	2447698.97	1989 Jun 21 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1989-Y135	2447699.09	1989 Jun 21 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1989-Y136	2447699.13	1989 Jun 21 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y137	2447699.19	1989 Jun 21 1630:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y138	2447703.89	1989 Jun 26 0920:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y139	2447705.92	1989 Jun 28 1010:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-W180	2447705.97	1989 Jun 28 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1989-Y140	2447706.13	1989 Jun 28 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1989-W182	2447706.19	1989 Jun 28 1633:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1989-Y141	2447712.92	1989 Jul 05 1010:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-Y142	2447712.98	1989 Jul 05 1126:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y143	2447713.09	1989 Jul 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1989-Y144	2447713.20	1989 Jul 05 1655:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-Y145	2447713.28	1989 Jul 05 1840:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y146	2447718.09	1989 Jul 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1989-Y147	2447718.25	1989 Jul 10 1800:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1989-Y148	2447718.29	1989 Jul 10 1900:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y150	2447719.97	1989 Jul 12 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	86	-	-
1989-Y151	2447720.13	1989 Jul 12 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-W183	2447720.14	1989 Jul 12 1515:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1989-W184	2447720.19	1989 Jul 12 1628:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1989-Y152	2447720.92	1989 Jul 13 1009:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	86	-	-
1989-Y153	2447725.09	1989 Jul 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1989-Y155	2447727.09	1989 Jul 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1989-Y156	2447727.13	1989 Jul 19 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y157	2447727.19	1989 Jul 19 1627:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y158	2447728.06	1989 Jul 20 1323:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1989-Y159	2447733.92	1989 Jul 26 1002:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y160	2447733.98	1989 Jul 26 1136:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y161	2447734.09	1989 Jul 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y162	2447734.13	1989 Jul 26 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1989-W185	2447734.19	1989 Jul 26 1628:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1989-W186	2447740.97	1989 Aug 02 1122:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	72	-	-
1989-Y163	2447741.09	1989 Aug 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-Y164	2447741.13	1989 Aug 02 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1989-Y165	2447741.17	1989 Aug 02 1610:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-W188	2447741.91	1989 Aug 03 0949:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	79	-	-
1989-Y168	2447747.90	1989 Aug 09 0937:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1989-Y169	2447747.97	1989 Aug 09 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-Y170	2447748.10	1989 Aug 09 1425:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1989-W193	2447748.13	1989 Aug 09 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	76	-	-
1989-Y171	2447748.17	1989 Aug 09 1611:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y174	2447754.97	1989 Aug 16 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-W206	2447755.13	1989 Aug 16 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1989-Y175	2447755.16	1989 Aug 16 1550:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y176	2447755.21	1989 Aug 16 1707:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y177	2447755.36	1989 Aug 16 2040:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1989-W207	2447760.09	1989 Aug 21 1405:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1989-Y178	2447761.95	1989 Aug 23 1047:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-Y179	2447761.97	1989 Aug 23 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y180	2447762.09	1989 Aug 23 1405:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1989-Y181	2447762.13	1989 Aug 23 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y182	2447762.15	1989 Aug 23 1537:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1989-Y183	2447765.21	1989 Aug 26 1701:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	83	-	-
1989-Y184	2447765.78	1989 Aug 27 0650:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	83	-	-
1989-W210	2447767.09	1989 Aug 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1989-W211	2447768.19	1989 Aug 29 1635:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	69	-	-
1989-Y185	2447768.28	1989 Aug 29 1845:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	87	-	-
1989-Y186	2447768.92	1989 Aug 30 1010:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-W212	2447769.09	1989 Aug 30 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1989-Y187	2447769.10	1989 Aug 30 1430:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y188	2447769.14	1989 Aug 30 1525:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y189	2447769.16	1989 Aug 30 1553:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y190	2447770.17	1989 Aug 31 1600:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	81	-	-
1989-Y191	2447770.79	1989 Sep 01 0700:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-W214	2447771.09	1989 Sep 01 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	76	-	-
1989-Y192	2447771.17	1989 Sep 01 1600:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	81	-	-
1989-W215	2447771.21	1989 Sep 01 1707:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	76	-	-
1989-Y193	2447771.23	1989 Sep 01 1727:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-Y194	2447771.29	1989 Sep 01 1900:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	81	-	-
1989-Y195	2447771.32	1989 Sep 01 1940:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1989-Y196	2447774.09	1989 Sep 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1989-W217	2447775.29	1989 Sep 05 1851:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	78	-	-
1989-Y197	2447775.92	1989 Sep 06 1005:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-W219	2447775.97	1989 Sep 06 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1989-Y198	2447776.09	1989 Sep 06 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y199	2447776.13	1989 Sep 06 1511:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1989-Y200	2447776.16	1989 Sep 06 1553:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y201	2447778.19	1989 Sep 08 1630:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	91	-	-
1989-Y202	2447780.76	1989 Sep 11 0620:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-Y203	2447781.09	1989 Sep 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y204	2447781.17	1989 Sep 11 1600:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	84	-	-
1989-Y205	2447781.24	1989 Sep 11 1745:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	83	-	-
1989-Y206	2447781.25	1989 Sep 11 1800:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y207	2447781.33	1989 Sep 11 2000:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1989-W222	2447781.34	1989 Sep 11 2015:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	71	-	-
1989-Y208	2447782.85	1989 Sep 13 0824:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-W223	2447782.99	1989 Sep 13 1145:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	76	-	-
1989-Y209	2447783.09	1989 Sep 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-Y210	2447783.12	1989 Sep 13 1457:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1989-Y211	2447783.42	1989 Sep 13 2205:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1989-Y212	2447788.09	1989 Sep 18 1415:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y213	2447789.91	1989 Sep 20 0955:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1989-Y214	2447789.97	1989 Sep 20 1120:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y215	2447790.09	1989 Sep 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y216	2447790.11	1989 Sep 20 1443:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y217	2447790.13	1989 Sep 20 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	88	-	-
1989-Y218	2447795.13	1989 Sep 25 1507:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1989-Y219	2447796.97	1989 Sep 27 1115:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	81	-	-
1989-Y220	2447797.06	1989 Sep 27 1325:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y221	2447797.09	1989 Sep 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-Y222	2447798.13	1989 Sep 28 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y223	2447802.09	1989 Oct 02 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1989-Y224	2447803.85	1989 Oct 04 0830:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-W228	2447803.97	1989 Oct 04 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	78	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-Y225	2447804.06	1989 Oct 04 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y226	2447804.09	1989 Oct 04 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y227	2447804.13	1989 Oct 04 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y228	2447805.09	1989 Oct 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y229	2447805.25	1989 Oct 05 1800:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	85	-	-
1989-Y230	2447805.25	1989 Oct 05 1802:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	85	-	-
1989-Y231	2447809.09	1989 Oct 09 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-W230	2447809.20	1989 Oct 09 1655:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	64	-	-
1989-W231	2447809.20	1989 Oct 09 1655:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	64	-	-
1989-Y232	2447809.26	1989 Oct 09 1814:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-W233	2447810.79	1989 Oct 11 0700:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1989-Y233	2447810.79	1989 Oct 11 0700:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	95	-	-
1989-Y234	2447810.79	1989 Oct 11 0701:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	95	-	-
1989-Y235	2447810.90	1989 Oct 11 0934:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-W234	2447810.97	1989 Oct 11 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	78	-	-
1989-Y236	2447811.09	1989 Oct 11 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1989-Y237	2447811.13	1989 Oct 11 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-Y238	2447811.21	1989 Oct 11 1700:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y239	2447811.21	1989 Oct 11 1700:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	84	-	-
1989-Y240	2447811.33	1989 Oct 11 2000:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-Y241	2447812.09	1989 Oct 12 1405:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	93	-	-
1989-Y242	2447812.09	1989 Oct 12 1405:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	93	-	-
1989-Y243	2447812.21	1989 Oct 12 1705:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-Y244	2447812.25	1989 Oct 12 1807:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	86	-	-
1989-W236	2447815.20	1989 Oct 15 1655:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	74	-	-
1989-Y245	2447815.27	1989 Oct 15 1836:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	84	-	-
1989-Y246	2447816.09	1989 Oct 16 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-W241	2447818.03	1989 Oct 18 1237:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1989-Y247	2447818.09	1989 Oct 18 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1989-Y248	2447818.13	1989 Oct 18 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y249	2447818.23	1989 Oct 18 1730:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1989-Y250	2447818.23	1989 Oct 18 1730:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	81	-	-
1989-Y253	2447818.85	1989 Oct 19 0830:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y254	2447820.09	1989 Oct 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y255	2447820.25	1989 Oct 20 1802:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	83	-	-
1989-Y256	2447820.37	1989 Oct 20 2050:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	88	-	-
1989-Y257	2447820.37	1989 Oct 20 2050:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	88	-	-
1989-Y258	2447820.39	1989 Oct 20 2126:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y259	2447821.31	1989 Oct 21 1928:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	82	-	-
1989-Y260	2447821.31	1989 Oct 21 1928:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	87	-	-
1989-Y261	2447822.71	1989 Oct 23 0500:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	90	-	-
1989-Y262	2447823.09	1989 Oct 23 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y263	2447823.20	1989 Oct 23 1652:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	84	-	-
1989-Y264	2447823.25	1989 Oct 23 1800:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	90	-	-
1989-Y265	2447824.83	1989 Oct 25 0800:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1989-Y266	2447824.90	1989 Oct 25 0930:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y267	2447824.97	1989 Oct 25 1118:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	83	-	-
1989-Y268	2447825.01	1989 Oct 25 1220:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y269	2447825.13	1989 Oct 25 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1989-W257	2447826.25	1989 Oct 26 1800:00	M-100B	-	-	-	-	-	SHIR	GMS89C	ULP1	-	-	78	-	-
1989-Y270	2447831.96	1989 Nov 01 1101:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y271	2447832.02	1989 Nov 01 1230:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y273	2447832.13	1989 Nov 01 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y274	2447832.21	1989 Nov 01 1709:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y275	2447838.88	1989 Nov 08 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1989-W265	2447838.97	1989 Nov 08 1118:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	77	-	-
1989-Y276	2447839.09	1989 Nov 08 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	87	-	-
1989-Y277	2447839.99	1989 Nov 09 1149:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y278	2447840.13	1989 Nov 09 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y279	2447844.09	1989 Nov 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y280	2447845.85	1989 Nov 15 0830:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1989-Y281	2447845.99	1989 Nov 15 1140:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y282	2447846.09	1989 Nov 15 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y283	2447846.13	1989 Nov 15 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	80	-	-
1989-Y284	2447851.09	1989 Nov 20 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1989-Y285	2447852.88	1989 Nov 22 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-W275	2447853.04	1989 Nov 22 1300:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1989-Y286	2447853.07	1989 Nov 22 1337:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1989-Y287	2447853.12	1989 Nov 22 1452:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	90	-	-
1989-Y288	2447853.13	1989 Nov 22 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1989-Y290	2447853.94	1989 Nov 23 1040:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	82	-	-
1989-Y293	2447858.09	1989 Nov 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-W288	2447859.87	1989 Nov 29 0855:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	79	-	-
1989-Y297	2447860.09	1989 Nov 29 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1989-Y298	2447860.09	1989 Nov 29 1408:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1989-W290	2447860.13	1989 Nov 29 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	72	-	-
1989-Y300	2447866.97	1989 Dec 06 1118:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-Y301	2447867.09	1989 Dec 06 1405:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1989-Y302	2447867.13	1989 Dec 06 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1989-Y303	2447873.88	1989 Dec 13 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y304	2447874.06	1989 Dec 13 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1989-Y305	2447874.09	1989 Dec 13 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1989-Y307	2447874.13	1989 Dec 13 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1989-Y310	2447880.89	1989 Dec 20 0918:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1989-Y311	2447880.97	1989 Dec 20 1118:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1989-W304	2447881.12	1989 Dec 20 1500:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-Y312	2447881.17	1989 Dec 20 1605:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1989-Y313	2447887.92	1989 Dec 27 1005:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1989-Y314	2447888.06	1989 Dec 27 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1989-Y315	2447888.09	1989 Dec 27 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1989-Y316	2447888.13	1989 Dec 27 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1990-Y01	2447894.33	1990 Jan 02 1957:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	84	-	-
1990-Y02	2447894.35	1990 Jan 02 2027:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y03	2447894.46	1990 Jan 02 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-Y04	2447894.51	1990 Jan 03 0015:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-W03	2447894.87	1990 Jan 03 0852:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	75	-	-
1990-Y05	2447894.97	1990 Jan 03 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1990-Y06	2447895.05	1990 Jan 03 1316:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1990-Y07	2447895.08	1990 Jan 03 1350:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1990-Y08	2447895.09	1990 Jan 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1990-Y09	2447895.09	1990 Jan 03 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1990-Y10	2447895.13	1990 Jan 03 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	91	-	-
1990-Y11	2447895.17	1990 Jan 03 1600:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1990-Y12	2447895.36	1990 Jan 03 2045:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-Y13	2447895.85	1990 Jan 04 0830:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1990-W10	2447901.34	1990 Jan 09 2010:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	79	-	-
1990-W11	2447901.35	1990 Jan 09 2030:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	76	-	-
1990-Y14	2447901.46	1990 Jan 09 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-W12	2447901.47	1990 Jan 09 2310:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	76	-	-
1990-Y15	2447901.97	1990 Jan 10 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1990-Y16	2447901.98	1990 Jan 10 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1990-Y17	2447901.98	1990 Jan 10 1134:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1990-Y18	2447902.06	1990 Jan 10 1320:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	86	-	-
1990-W16	2447902.09	1990 Jan 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1990-W17	2447902.09	1990 Jan 10 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	78	-	-
1990-Y19	2447902.13	1990 Jan 10 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	85	-	-
1990-W18	2447902.14	1990 Jan 10 1522:00	M-100B	-	-	-	-	-	-	OK	-	-	-	78	-	-
1990-W19	2447902.83	1990 Jan 11 0800:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	70	-	-
1990-Y25	2447906.97	1990 Jan 15 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1990-Y27	2447907.11	1990 Jan 15 1432:00	M-100B	-	-	DYANA DVM1	-	-	-	GTsP-4	-	-	-	84	-	-
1990-Y28	2447907.13	1990 Jan 15 1505:00	M-100B	-	-	DYANA DHM1	-	-	-	OK	-	-	-	80	-	-
1990-Y35	2447908.34	1990 Jan 16 2012:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y36	2447908.46	1990 Jan 16 2301:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	83	-	-
1990-W24	2447908.47	1990 Jan 16 2315:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	76	-	-
1990-W27	2447908.92	1990 Jan 17 1000:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	70	-	-
1990-Y37	2447908.97	1990 Jan 17 1110:00	M-100B	-	-	DYANA DTM2	-	-	-	TERLS	-	-	-	80	-	-
1990-Y38	2447908.98	1990 Jan 17 1135:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1990-W28	2447909.03	1990 Jan 17 1240:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1990-W29	2447909.09	1990 Jan 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1990-W30	2447909.09	1990 Jan 17 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1990-Y40	2447909.13	1990 Jan 17 1505:00	M-100B	-	-	DYANA DHM2	-	-	-	OK	-	-	-	82	-	-
1990-Y41	2447909.19	1990 Jan 17 1630:00	M-100B	-	-	DYANA DVM2	-	-	-	GTsP-4	-	-	-	83	-	-
1990-Y47	2447910.38	1990 Jan 18 2100:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	82	-	-
1990-Y53	2447910.97	1990 Jan 19 1110:00	M-100B	-	-	DYANA DTM3	-	-	-	TERLS	-	-	-	80	-	-
1990-Y56	2447913.97	1990 Jan 22 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1990-Y59	2447914.06	1990 Jan 22 1332:00	M-100B	-	-	DYANA DVM3	-	-	-	GTsP-4	-	-	-	85	-	-
1990-W40	2447914.13	1990 Jan 22 1505:00	M-100B	-	-	DYANA DHM3	-	-	-	OK	-	-	-	77	-	-
1990-Y64	2447915.37	1990 Jan 23 2054:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y66	2447915.46	1990 Jan 23 2301:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	80	-	-
1990-W42	2447915.47	1990 Jan 23 2310:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	76	-	-
1990-Y67	2447915.68	1990 Jan 24 0421:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	108	-	-
1990-W45	2447915.83	1990 Jan 24 0800:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	77	-	-
1990-W47	2447915.97	1990 Jan 24 1110:00	M-100B	-	-	DYANA DTM5	-	-	-	TERLS	-	-	-	77	-	-
1990-Y68	2447915.98	1990 Jan 24 1135:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1990-Y69	2447916.06	1990 Jan 24 1330:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1990-Y70	2447916.07	1990 Jan 24 1337:00	M-100B	-	-	DYANA DVM4	-	-	-	GTsP-4	-	-	-	80	-	-
1990-Y71	2447916.09	1990 Jan 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-Y72	2447916.09	1990 Jan 24 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	88	-	-
1990-Y73	2447916.13	1990 Jan 24 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1990-W48	2447916.17	1990 Jan 24 1605:00	M-100B	-	-	DYANA DHM4	-	-	-	OK	-	-	-	65	-	-
1990-Y77	2447917.35	1990 Jan 25 2020:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	82	-	-
1990-W52	2447917.97	1990 Jan 26 1110:00	M-100B	-	-	DYANA DTM6	-	-	-	TERLS	-	-	-	77	-	-
1990-Y84	2447921.07	1990 Jan 29 1342:00	M-100B	-	-	DYANA DVM5	-	-	-	GTsP-4	-	-	-	85	-	-
1990-Y85	2447921.13	1990 Jan 29 1505:00	M-100B	-	-	DYANA DHM5	-	-	-	OK	-	-	-	82	-	-
1990-Y89	2447922.46	1990 Jan 30 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	86	-	-
1990-Y90	2447922.49	1990 Jan 30 2350:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	82	-	-
1990-W56	2447922.70	1990 Jan 31 0445:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	66	-	-
1990-W57	2447922.80	1990 Jan 31 0707:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	60	-	-
1990-W60	2447922.88	1990 Jan 31 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	78	-	-
1990-Y91	2447922.97	1990 Jan 31 1115:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1990-W61	2447922.98	1990 Jan 31 1125:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	60	-	-
1990-Y93	2447923.07	1990 Jan 31 1347:00	M-100B	-	-	DYANA DVM6	-	-	-	GTsP-4	-	-	-	83	-	-
1990-Y94	2447923.09	1990 Jan 31 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1990-W62	2447923.12	1990 Jan 31 1453:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	55	-	-
1990-Y95	2447923.13	1990 Jan 31 1505:00	M-100B	-	-	DYANA DHM6	-	-	-	OK	-	-	-	80	-	-
1990-Y96	2447923.13	1990 Jan 31 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1990-W64	2447923.13	1990 Jan 31 1510:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1990-W65	2447923.29	1990 Jan 31 1853:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	76	-	-
1990-W66	2447923.47	1990 Jan 31 2320:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP1	-	-	60	-	-
1990-Y99	2447924.00	1990 Feb 1 1205	M-100B	-	-	DYANA DTM7	-	-	-	TERLS	-	-	-	80	-	-
1990-W67	2447925.05	1990 Feb 02 1305:00	M-100B	-	-	DYANA DTM8	-	-	-	TERLS	-	-	-	75	-	-
1990-Y106	2447927.99	1990 Feb 05 1145:00	M-100B	-	-	DYANA DTM9	-	-	-	TERLS	-	-	-	83	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-Y108	2447928.08	1990 Feb 05 1355:00	M-100B	-	-	DYANA DVM7	-	-	-	GTsP-4	-	-	-	83	-	-
1990-W68	2447928.13	1990 Feb 05 1505:00	M-100B	-	-	DYANA DHM7	-	-	-	OK	-	-	-	78	-	-
1990-Y114	2447929.33	1990 Feb 06 2000:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y115	2447929.46	1990 Feb 06 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	88	-	-
1990-Y116	2447929.51	1990 Feb 07 0015:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-W70	2447929.72	1990 Feb 07 0520:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1990-W71	2447929.88	1990 Feb 07 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	76	-	-
1990-Y117	2447930.09	1990 Feb 07 1408:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-Y118	2447930.09	1990 Feb 07 1410:00	M-100B	-	-	DYANA DTM10	-	-	-	TERLS	-	-	-	80	-	-
1990-W72	2447930.14	1990 Feb 7 1520	M-100B	-	-	DYANA DVM8	-	-	-	GTsP-4	-	-	-	78	-	-
1990-Y119	2447930.30	1990 Feb 07 1905:00	M-100B	-	-	DYANA DHM8	-	-	-	OK	-	-	-	82	-	-
1990-Y122	2447930.97	1990 Feb 08 1110:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-
1990-Y129	2447931.97	1990 Feb 09 1110:00	M-100B	-	-	DYANA DTM11	-	-	-	TERLS	-	-	-	80	-	-
1990-Y131	2447935.03	1990 Feb 12 1250:00	M-100B	-	-	DYANA DTM12	-	-	-	TERLS	-	-	-	80	-	-
1990-Y132	2447935.13	1990 Feb 12 1505:00	M-100B	-	-	DYANA DHM9	-	-	-	OK	-	-	-	80	-	-
1990-Y133	2447935.13	1990 Feb 12 1510:00	M-100B	-	-	DYANA DVM9	-	-	-	GTsP-4	-	-	-	81	-	-
1990-Y137	2447936.33	1990 Feb 13 2000:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y138	2447936.47	1990 Feb 13 2310:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	87	-	-
1990-W78	2447936.88	1990 Feb 14 0900:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	77	-	-
1990-Y139	2447936.99	1990 Feb 14 1145:00	M-100B	-	-	DYANA DTM13	-	-	-	TERLS	-	-	-	85	-	-
1990-W81	2447937.10	1990 Feb 14 1431:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1990-Y140	2447937.13	1990 Feb 14 1505:00	M-100B	-	-	DYANA DHM10	-	-	-	OK	-	-	-	80	-	-
1990-Y141	2447937.13	1990 Feb 14 1512:00	M-100B	-	-	DYANA DVM10	-	-	-	GTsP-4	-	-	-	82	-	-
1990-Y146	2447938.97	1990 Feb 16 1110:00	M-100B	-	-	DYANA DTM14	-	-	-	TERLS	-	-	-	87	-	-
1990-Y151	2447941.99	1990 Feb 19 1140:00	M-100B	-	-	DYANA DTM15	-	-	-	TERLS	-	-	-	81	-	-
1990-Y152	2447942.09	1990 Feb 19 1416:00	M-100B	-	-	DYANA DVM11	-	-	-	GTsP-4	-	-	-	85	-	-
1990-Y153	2447942.13	1990 Feb 19 1505:00	M-100B	-	-	DYANA DHM11	-	-	-	OK	-	-	-	82	-	-
1990-Y165	2447943.34	1990 Feb 20 2016:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-W84	2447943.47	1990 Feb 20 2310:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	77	-	-
1990-W87	2447943.62	1990 Feb 21 0254:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	75	-	-
1990-W88	2447943.79	1990 Feb 21 0652:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	67	-	-
1990-W90	2447943.95	1990 Feb 21 1053:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	70	-	-
1990-W91	2447943.97	1990 Feb 21 1118:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	75	-	-
1990-Y166	2447943.97	1990 Feb 21 1122:00	M-100B	-	-	DYANA DTM16	-	-	-	TERLS	-	-	-	86	-	-
1990-W92	2447944.09	1990 Feb 21 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	77	-	-
1990-Y167	2447944.10	1990 Feb 21 1420:00	M-100B	-	-	DYANA DVM12	-	-	-	GTsP-4	-	-	-	82	-	-
1990-W93	2447944.12	1990 Feb 21 1457:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	67	-	-
1990-Y168	2447944.17	1990 Feb 21 1610:00	M-100B	-	-	DYANA DHM12	-	-	-	OK	-	-	-	80	-	-
1990-W94	2447944.29	1990 Feb 21 1855:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	72	-	-
1990-W95	2447944.52	1990 Feb 22 0032:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP2	-	-	72	-	-
1990-Y175	2447945.97	1990 Feb 23 1110:00	M-100B	-	-	DYANA DTM17	-	-	-	TERLS	-	-	-	85	-	-
1990-Y182	2447948.98	1990 Feb 26 1135:00	M-100B	-	-	DYANA DTM18	-	-	-	TERLS	-	-	-	85	-	-
1990-W97	2447949.11	1990 Feb 26 1440	M-100B	-	-	DYANA DVM13	-	-	-	GTsP-4	-	-	-	75	-	-
1990-A02	2447949.13	1990 Feb 26 1505:00	M-100B	-	-	DYANA DHM13	-	-	-	OK	-	-	-	40	-	-
1990-Y187	2447950.34	1990 Feb 27 2004:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	81	-	-
1990-Y188	2447950.46	1990 Feb 27 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	88	-	-
1990-W100	2447950.89	1990 Feb 28 0925:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	60	-	-
1990-Y189	2447950.97	1990 Feb 28 1110	M-100B	-	-	DYANA DTM19	-	-	-	TERLS	-	-	-	80	-	-
1990-Y190	2447951.09	1990 Feb 28 1409:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1990-W101	2447951.13	1990 Feb 28 1505:00	M-100B	-	-	DYANA DHM14	-	-	-	OK	-	-	-	77	-	-
1990-W102	2447951.15	1990 Feb 28 1530:00	M-100B	-	-	DYANA DVM14	-	-	-	GTsP-4	-	-	-	77	-	-
1990-Y197	2447952.98	1990 Mar 02 1135:00	M-100B	-	-	DYANA DTM20	-	-	-	TERLS	-	-	-	85	-	-
1990-W106	2447956.11	1990 Mar 05 1435:00	M-100B	-	-	DYANA DVM15	-	-	-	GTsP-4	-	-	-	75	-	-
1990-W107	2447956.13	1990 Mar 05 1505:00	M-100B	-	-	DYANA DHM15	-	-	-	OK	-	-	-	73	-	-
1990-W108	2447957.31	1990 Mar 06 1920:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	77	-	-
1990-Y213	2447957.46	1990 Mar 06 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	86	-	-
1990-W111	2447957.97	1990 Mar 07 1110:00	M-100B	-	-	DYANA DTM21	-	-	-	TERLS	-	-	-	79	-	-
1990-W112	2447958.09	1990 Mar 07 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	75	-	-
1990-W113	2447958.11	1990 Mar 07 1437:00	M-100B	-	-	DYANA DVM16	-	-	-	GTsP-4	-	-	-	77	-	-
1990-Y214	2447958.13	1990 Mar 07 1505:00	M-100B	-	-	DYANA DHM16	-	-	-	OK	-	-	-	85	-	-
1990-W116	2447961.63	1990 Mar 11 0303:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	55	-	-
1990-W117	2447961.67	1990 Mar 11 0409:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	60	-	-
1990-W118	2447961.79	1990 Mar 11 0703:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	77	-	-
1990-W119	2447961.95	1990 Mar 11 1055:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	76	-	-
1990-W121	2447962.12	1990 Mar 11 1455:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	77	-	-
1990-W122	2447962.29	1990 Mar 11 1857:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	72	-	-
1990-W123	2447962.45	1990 Mar 11 2255:00	M-100B	-	-	-	-	-	SHIR	GMS90C	LP3	-	-	75	-	-
1990-Y240	2447963.08	1990 Mar 12 1400:00	M-100B	-	-	DYANA DTM22	-	-	-	TERLS	-	-	-	80	-	-
1990-W124	2447963.12	1990 Mar 12 1452:00	M-100B	-	-	DYANA DVM17	-	-	-	GTsP-4	-	-	-	73	-	-
1990-Y241	2447963.13	1990 Mar 12 1505:00	M-100B	-	-	DYANA DHM17	-	-	-	OK	-	-	-	81	-	-
1990-Y244	2447963.58	1990 Mar 13 0200:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-W125	2447964.33	1990 Mar 13 2000:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	77	-	-
1990-Y253	2447965.12	1990 Mar 14 1453:00	M-100B	-	-	DYANA DVM18	-	-	-	GTsP-4	-	-	-	85	-	-
1990-W128	2447965.13	1990 Mar 14 1505:00	M-100B	-	-	DYANA DHM18	-	-	-	OK	-	-	-	77	-	-
1990-Y258	2447971.32	1990 Mar 20 1940:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y259	2447971.46	1990 Mar 20 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	83	-	-
1990-W129	2447971.89	1990 Mar 21 0925:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	60	-	-
1990-W131	2447972.09	1990 Mar 21 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	79	-	-
1990-W132	2447972.10	1990 Mar 21 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1990-Y260	2447978.33	1990 Mar 27 1955:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y261	2447978.46	1990 Mar 27 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	86	-	-
1990-W134	2447978.93	1990 Mar 28 1025:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	60	-	-
1990-Y263	2447979.09	1990 Mar 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	80	-	-
1990-Y264	2447979.13	1990 Mar 28 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	87	-	-
1990-Y265	2447979.15	1990 Mar 28 1530:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1990-Y271	2448136.00	1990 Sep 01 1205:00	M-100B	-	-	-	-	-	-	TERLS	-	-	-	80	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-Y280	2448198.25	1990 Nov 02 1753:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	84	-	-
1990-Y281	2448201.97	1990 Nov 06 1115:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1990-Y282	2448202.10	1990 Nov 06 1425:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	83	-	-
1990-Y283	2448202.46	1990 Nov 06 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	83	-	-
1990-Y284	2448202.98	1990 Nov 07 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	81	-	-
1990-Y285	2448203.13	1990 Nov 07 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1990-Y286	2448205.21	1990 Nov 09 1700:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	82	-	-
1990-Y287	2448209.46	1990 Nov 13 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	83	-	-
1990-Y288	2448209.98	1990 Nov 14 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1990-Y289	2448209.99	1990 Nov 14 1145:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1990-Y290	2448210.13	1990 Nov 14 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1990-Y291	2448210.17	1990 Nov 14 1610:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	81	-	-
1990-Y292	2448210.25	1990 Nov 14 1807:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	86	-	-
1990-Y293	2448216.44	1990 Nov 20 2235:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	87	-	-
1990-Y294	2448216.98	1990 Nov 21 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	80	-	-
1990-Y295	2448217.10	1990 Nov 21 1430:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1990-Y296	2448217.13	1990 Nov 21 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	86	-	-
1990-Y297	2448217.28	1990 Nov 21 1837:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-W180	2448217.33	1990 Nov 21 2000:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	79	-	-
1990-Y298	2448223.46	1990 Nov 27 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	84	-	-
1990-Y299	2448224.09	1990 Nov 28 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-Y300	2448224.19	1990 Nov 28 1630:00	M-100B	-	-	-	-	-	-	OK	-	-	-	83	-	-
1990-Y301	2448224.28	1990 Nov 28 1846:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	84	-	-
1990-Y302	2448224.40	1990 Nov 28 2130:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	80	-	-
1990-Y303	2448224.98	1990 Nov 29 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	83	-	-
1990-Y304	2448230.33	1990 Dec 04 1955:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	83	-	-
1990-W182	2448230.39	1990 Dec 04 2115:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	72	-	-
1990-W183	2448230.43	1990 Dec 04 2220:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	72	-	-
1990-Y305	2448230.49	1990 Dec 04 2340:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	85	-	-
1990-Y306	2448230.98	1990 Dec 05 1130:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1990-Y307	2448230.98	1990 Dec 05 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	82	-	-
1990-Y308	2448231.09	1990 Dec 05 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	81	-	-
1990-Y309	2448231.16	1990 Dec 05 1545:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1990-Y310	2448235.98	1990 Dec 10 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1990-Y311	2448237.33	1990 Dec 11 1955:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	83	-	-
1990-Y312	2448237.46	1990 Dec 11 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	85	-	-
1990-Y313	2448237.98	1990 Dec 12 1130:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1990-Y314	2448238.09	1990 Dec 12 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	84	-	-
1990-Y315	2448238.13	1990 Dec 12 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	81	-	-
1990-Y316	2448240.03	1990 Dec 14 1250:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1990-Y317	2448244.33	1990 Dec 18 1955:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	82	-	-
1990-Y318	2448245.08	1990 Dec 19 1400:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1990-Y319	2448245.09	1990 Dec 19 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	82	-	-
1990-Y320	2448245.13	1990 Dec 19 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	82	-	-
1990-W188	2448245.88	1990 Dec 20 0905:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1990-Y321	2448251.36	1990 Dec 25 2040:00	M-100B	-	-	-	-	-	-	BALKH	-	-	-	82	-	-
1990-Y322	2448251.46	1990 Dec 25 2300:00	M-100B	-	-	-	-	-	-	AKHT	-	-	-	82	-	-
1990-Y323	2448251.98	1990 Dec 26 1130:00	M-100B	-	-	-	-	-	-	SAIN	-	-	-	84	-	-
1990-Y324	2448252.09	1990 Dec 26 1407:00	M-100B	-	-	-	-	-	-	MLD	-	-	-	85	-	-
1990-Y325	2448252.10	1990 Dec 26 1421:00	M-100B	-	-	-	-	-	-	GTsP-4	-	-	-	83	-	-
1990-Y326	2448252.13	1990 Dec 26 1505:00	M-100B	-	-	-	-	-	-	OK	-	-	-	84	-	-
1991-W01	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W02	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W03	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W04	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W05	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W06	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W07	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W08	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W09	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W10	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W11	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W12	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W13	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W14	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W15	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W16	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W17	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W18	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W19	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W20	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1991-W21	2448256.50	1991	M-100B	-	-	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y32	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y33	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y34	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y35	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y36	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y37	2448987.50	1993	M-100B	-	Meteo	-	-	-	-	TERLS	-	-	-	79	-	-
1993-Y23	2449230.50	1993 Sep	M-100B	-	-	TERLS M100 #1162	-	-	-	TERLS	-	-	-	80?	-	-
2007-S75	2454100.50	2007	M-100B	-	Ionos	[Restart launches]	-	-	-	OK	-	-	-	85?	-	-
2008-S64	2454465.50	2008	M-100B	-	Ionos	[Restart launches]	-	-	-	OK	-	-	-	85?	-	-
2008-A08	2454720.93	2008 Sep 11 1026	M-100B	-	Ionos	[Accidental launch]	-	-	-	OK	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-Y01	2436030.59	1957 Jul 11 0205	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y02	2436046.60	1957 Jul 27 0220	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y03	2436064.68	1957 Aug 14 0423	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y04	2436069.63	1957 Aug 19 0313	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y05	2436095.62	1957 Sep 14 0300	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y06	2436098.62	1957 Sep 17 0300	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y07	2436101.60	1957 Sep 20 0230	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y08	2436146.83	1957 Nov 4 0755	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1957-Y09	2436188.69	1957 Dec 16 0435	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y10	2436188.69	1957 Dec 16 0435	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1957-Y11	2436193.69	1957 Dec 21 0440	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1957-Y12	2436193.69	1957 Dec 21 0440	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1957-Y13	2436193.86	1957 Dec 21 0845	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y01	2436213.81	1958 Jan 10 0727	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y02	2436222.86	1958 Jan 19 0845	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y03	2436222.91	1958 Jan 19 0945	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y04	2436223.47	1958 Jan 19 2321	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y10	2436244.86	1958 Feb 10 0845	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y06	2436245.91	1958 Feb 11 0944	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y07	2436253.05	1958 Feb 18 1310	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y08	2436253.10	1958 Feb 18 1431	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y09	2436260.65	1958 Feb 26 0335	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-S35	2436260.69	1958 Feb 26 0435	M-100	?	-	0.000	MVS	SS	-	FIAN/	Ionos/Aeron	IGY36	-	-
1958-Y11	2436279.62	1958 Mar 17 0300	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y12	2436283.41	1958 Mar 20 2145	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y13	2436283.65	1958 Mar 21 0335	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y14	2436290.65	1958 Mar 28 0335	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y15	2436295.00	1958 Apr 1 1200	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y16	2436314.15	1958 Apr 20 1540	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y17	2436341.53	1958 May 18 0050	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y18	2436341.58	1958 May 18 0156	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y19	2436342.55	1958 May 19 0105	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y20	2436352.54	1958 May 29 0100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y21	2436354.57	1958 May 31 0145	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y22	2436363.53	1958 Jun 9 0050	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y23	2436378.53	1958 Jun 24 0045	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y24	2436378.57	1958 Jun 24 0145	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y25	2436383.56	1958 Jun 29 0130	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y26	2436400.36	1958 Jul 15 2045	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y27	2436400.41	1958 Jul 15 2145	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y28	2436400.58	1958 Jul 16 0200	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y29	2436401.55	1958 Jul 17 0105	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y30	2436411.60	1958 Jul 27 0220	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y31	2436412.13	1958 Jul 27 1510	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y32	2436415.60	1958 Jul 31 0220	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y33	2436422.86	1958 Aug 7 0845	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y34	2436427.63	1958 Aug 12 0310	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y35	2436427.69	1958 Aug 12 0440	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y36	2436429.57	1958 Aug 14 0140	M-100	?	-	0.000	AN	SS	-	FIAN/	Aeron	IGY36	-	-
1958-Y37	2436430.69	1958 Aug 15 0440	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y38	2436452.68	1958 Sep 6 0425	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y39	2436460.69	1958 Sep 14 0440	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y40	2436463.60	1958 Sep 17 0230	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y41	2436463.70	1958 Sep 17 0443	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y42	2436465.66	1958 Sep 19 0350	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y43	2436466.73	1958 Sep 20 0535	M-100	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y44	2436468.60	1958 Sep 22 0230	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-S204	2436468.66	1958 Sep 22 0347	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S207	2436473.66	1958 Sep 27 0348	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y45	2436477.90	1958 Oct 1 0941	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-A131	2436477.95	1958 Oct 1 1045	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S211	2436479.65	1958 Oct 3 0332	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S214	2436482.94	1958 Oct 6 1030	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron/SB	IGY36	-	-
1958-S216	2436484.66	1958 Oct 8 0350	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S230	2436492.67	1958 Oct 16 0400	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S231	2436493.67	1958 Oct 17 0405	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-S237	2436499.60	1958 Oct 23 0220	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1958-Y46	2436499.64	1958 Oct 23 0320	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y47	2436501.83	1958 Oct 25 0800	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y48	2436505.33	1958 Oct 28 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y49	2436507.83	1958 Oct 31 0800	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y50	2436512.01	1958 Nov 4 1220	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y51	2436518.36	1958 Nov 10 2045	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y52	2436521.83	1958 Nov 14 0800	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y53	2436525.86	1958 Nov 18 0845	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y54	2436536.34	1958 Nov 28 2006	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y55	2436546.29	1958 Dec 8 1900	M-100	?	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1958-Y56	2436547.96	1958 Dec 10 1100	M-100	?	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1958-Y57	2436549.00	1958 Dec 11 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1958-Y58	2436549.96	1958 Dec 12 1100	M-100	?	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1958-S301	2436564.91	1958 Dec 27 0950	M-100 (A-1)	-	-	0.000	MVS	SS	-	-	Aeron	IGY36	-	-
1959-Y01	2436571.50	1959 Jan 3 0000	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y02	2436579.00	1959 Jan 10 1200	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y03	2436611.50	1959 Feb 12 0000	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y04	2436639.96	1959 Mar 12 1109	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y05	2436640.15	1959 Mar 12 1540	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-Y06	2436641.13	1959 Mar 13 1510	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y07	2436660.83	1959 Apr 2 0800	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y08	2436694.00	1959 May 5 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y09	2436751.65	1959 Jul 2 0341	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y10	2436752.66	1959 Jul 3 0345	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y11	2436819.03	1959 Sep 7 1245	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y12	2436821.51	1959 Sep 10 0020	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y13	2436825.38	1959 Sep 13 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y14	2436830.29	1959 Sep 18 1900	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y15	2436836.38	1959 Sep 24 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y16	2436850.38	1959 Oct 8 2100	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y17	2436857.38	1959 Oct 15 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-S212	2436856.50	1959 Oct 15	M-100	?	-	0.000	AN	SS	-	AN/	Aeron?	JCM	-	-
1959-S213	2436856.50	1959 Oct 15	M-100	?	-	0.000	AN	SS	-	AN/	Aeron?	JCM	-	-
1959-Y18	2436862.05	1959 Oct 20 1315	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y19	2436863.66	1959 Oct 22 0356	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y20	2436863.77	1959 Oct 22 0629	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y21	2436863.91	1959 Oct 22 0955	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y22	2436864.38	1959 Oct 22 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y23	2436871.38	1959 Oct 29 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y24	2436885.38	1959 Nov 12 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y25	2436892.38	1959 Nov 19 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-S262	2436905.50	1959 Dec 3	M-100	?	-	0.000	AN	SS	-	AN/	Aeron?	JCM	-	-
1959-S263	2436905.50	1959 Dec 3	M-100	?	-	0.000	AN	SS	-	AN/	Aeron?	JCM	-	-
1959-Y26	2436905.83	1959 Dec 3 0800	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y27	2436905.92	1959 Dec 3 1004	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y28	2436906.02	1959 Dec 3 1228	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y29	2436906.38	1959 Dec 3 2100	M-100	?	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y30	2436906.71	1959 Dec 4 0507	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y31	2436906.79	1959 Dec 4 0700	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y32	2436906.93	1959 Dec 4 1025	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-Y33	2436927.38	1959 Dec 24 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	IGY36	-	-
1959-S03	2436579.00	1959 Jan 10 1200	M-100	?	-	0.000	AN	SS	-	FIAN/	Ionos/Aeron	IGY36	WDCRF	-
1960-A19	2436957.79	1960 Jan 24 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A23	2436964.00	1960 Jan 30 1154:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A28	2436965.94	1960 Feb 1 1030:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A29	2436966.94	1960 Feb 2 1037:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A30	2436967.97	1960 Feb 3 1121:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A32	2436968.96	1960 Feb 4 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A34	2436969.96	1960 Feb 5 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A35	2436970.96	1960 Feb 6 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A36	2436971.96	1960 Feb 7 1103:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A37	2436972.96	1960 Feb 8 1102:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A38	2436973.96	1960 Feb 9 1107:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A40	2436975.00	1960 Feb 10 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A42	2436975.96	1960 Feb 11 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A45	2436976.95	1960 Feb 12 1054:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A47	2436977.87	1960 Feb 13 0855:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A66	2437005.96	1960 Mar 12 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A67	2437008.96	1960 Mar 15 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A71	2437011.96	1960 Mar 18 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A75	2437017.96	1960 Mar 24 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A77	2437020.96	1960 Mar 27 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A79	2437023.96	1960 Mar 30 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A89	2437024.96	1960 Mar 31 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A184	2437147.96	1960 Aug 1 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A187	2437148.96	1960 Aug 2 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A189	2437149.96	1960 Aug 3 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A191	2437151.96	1960 Aug 5 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A192	2437152.96	1960 Aug 6 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A193	2437155.96	1960 Aug 9 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A198	2437158.96	1960 Aug 12 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A200	2437159.96	1960 Aug 13 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A201	2437160.96	1960 Aug 14 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A202	2437162.46	1960 Aug 15 2300:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-W40	2437247.09	1960 Nov 8 1404:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A260	2437251.96	1960 Nov 13 1104:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A263	2437253.96	1960 Nov 15 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A267	2437255.96	1960 Nov 17 1104:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A269	2437257.96	1960 Nov 19 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A270	2437259.96	1960 Nov 21 1107:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A274	2437264.96	1960 Nov 26 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A275	2437266.99	1960 Nov 28 1142:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A282	2437268.99	1960 Nov 30 1148:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A285	2437269.96	1960 Dec 1 1104:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A286	2437270.96	1960 Dec 2 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A288	2437272.96	1960 Dec 4 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-W43	2437273.96	1960 Dec 5 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A290	2437274.96	1960 Dec 6 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-W44	2437276.96	1960 Dec 8 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-W45	2437277.95	1960 Dec 9 1054:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A298	2437279.94	1960 Dec 11 1030:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1960-A299	2437280.96	1960 Dec 12 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A23	2437721.38	1962 Feb 25 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A51	2437770.71	1962 Apr 16 0500:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-W06	2437771.04	1962 Apr 16 1259:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A52	2437772.04	1962 Apr 17 1259:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A79	2437804.38	1962 May 19 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A81	2437807.38	1962 May 22 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A82	2437808.38	1962 May 23 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A86	2437812.38	1962 May 27 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A127	2437878.38	1962 Aug 1 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A129	2437882.38	1962 Aug 5 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A130	2437884.38	1962 Aug 7 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A134	2437886.38	1962 Aug 9 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A137	2437890.38	1962 Aug 13 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A138	2437892.38	1962 Aug 15 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A141	2437896.38	1962 Aug 19 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A143	2437899.38	1962 Aug 22 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A144	2437900.38	1962 Aug 23 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A205	2437998.38	1962 Nov 29 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A210	2438001.38	1962 Dec 2 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A215	2438007.38	1962 Dec 8 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A218	2438009.38	1962 Dec 10 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A221	2438011.38	1962 Dec 12 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A227	2438013.38	1962 Dec 14 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A234	2438019.38	1962 Dec 20 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1962-A237	2438023.38	1962 Dec 24 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1963-S23	2438056.54	1963 Jan 27 0100	M-100	?	-	0.000	AN	SS	-	AN/	Ionos?	JCM	-	-
1963-A19	2438061.38	1963 Jan 31 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1963-A20	2438064.38	1963 Feb 3 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1963-W07	2438073.38	1963 Feb 12 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1963-A38	2438101.38	1963 Mar 12 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1963-A56	2438132.38	1963 Apr 12 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1964-Y03	2438400.42	1964 Jan 5 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y04	2438408.38	1964 Jan 13 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y05	2438410.38	1964 Jan 15 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y06	2438412.42	1964 Jan 17 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y12	2438504.42	1964 Apr 18 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y13	2438505.33	1964 Apr 19 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y14	2438506.38	1964 Apr 20 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y15	2438508.44	1964 Apr 22 2230	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y16	2438510.38	1964 Apr 24 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y17	2438512.34	1964 Apr 26 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y18	2438513.23	1964 Apr 27 1732	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y19	2438513.34	1964 Apr 27 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y20	2438514.21	1964 Apr 28 1700	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y21	2438515.23	1964 Apr 29 1733	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y22	2438515.34	1964 Apr 29 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y23	2438520.23	1964 May 4 1729	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y24	2438520.34	1964 May 4 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y25	2438522.30	1964 May 6 1908	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y26	2438523.34	1964 May 7 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y27	2438524.34	1964 May 8 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y28	2438526.34	1964 May 10 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y30	2438528.34	1964 May 12 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y29	2438528.21	1964 May 12 1706	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y31	2438528.44	1964 May 12 2230	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y32	2438529.34	1964 May 13 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y33	2438530.23	1964 May 14 1736	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y34	2438531.34	1964 May 15 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y35	2438533.34	1964 May 17 2008	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y36	2438534.33	1964 May 18 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y37	2438535.21	1964 May 19 1702	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y38	2438535.33	1964 May 19 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y39	2438536.21	1964 May 20 1700	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y40	2438536.38	1964 May 20 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y41	2438537.21	1964 May 21 1700	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y42	2438537.25	1964 May 21 1805	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y43	2438537.33	1964 May 21 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y44	2438538.42	1964 May 22 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y45	2438554.33	1964 Jun 7 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y46	2438555.33	1964 Jun 8 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y47	2438557.33	1964 Jun 10 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y48	2438559.33	1964 Jun 12 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y49	2438561.33	1964 Jun 14 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y50	2438563.33	1964 Jun 16 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y51	2438564.33	1964 Jun 17 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y52	2438565.33	1964 Jun 18 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y53	2438585.33	1964 Jul 8 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y54	2438586.33	1964 Jul 9 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y55	2438587.38	1964 Jul 10 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y56	2438589.33	1964 Jul 12 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y57	2438590.33	1964 Jul 13 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y58	2438591.33	1964 Jul 14 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y59	2438592.33	1964 Jul 15 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y60	2438593.33	1964 Jul 16 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y61	2438594.33	1964 Jul 17 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y62	2438597.33	1964 Jul 20 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y63	2438599.33	1964 Jul 22 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y64	2438601.33	1964 Jul 24 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y65	2438618.33	1964 Aug 10 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-Y66	2438620.33	1964 Aug 12 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y67	2438622.33	1964 Aug 14 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y68	2438624.33	1964 Aug 16 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y69	2438626.17	1964 Aug 18 1600	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y70	2438626.33	1964 Aug 18 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y71	2438627.08	1964 Aug 19 1400	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y72	2438627.38	1964 Aug 19 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y73	2438628.22	1964 Aug 20 1711	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y74	2438628.38	1964 Aug 20 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y75	2438630.33	1964 Aug 22 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y76	2438632.23	1964 Aug 24 1736	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y77	2438632.38	1964 Aug 24 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y78	2438634.26	1964 Aug 26 1808	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y79	2438634.33	1964 Aug 26 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y80	2438639.23	1964 Aug 31 1731	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y81	2438640.22	1964 Sep 1 1715	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y82	2438641.25	1964 Sep 2 1753	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y83	2438648.21	1964 Sep 9 1705	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y84	2438648.33	1964 Sep 9 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y85	2438649.38	1964 Sep 10 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y86	2438651.33	1964 Sep 12 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y87	2438653.33	1964 Sep 14 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y88	2438663.33	1964 Sep 24 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y89	2438681.33	1964 Oct 12 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y92	2438683.33	1964 Oct 14 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y93	2438685.33	1964 Oct 16 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y94	2438686.33	1964 Oct 17 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y95	2438688.33	1964 Oct 19 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y96	2438688.38	1964 Oct 19 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y97	2438689.33	1964 Oct 20 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y98	2438690.35	1964 Oct 21 2030	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y99	2438690.40	1964 Oct 21 2140	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y100	2438691.33	1964 Oct 22 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y101	2438692.33	1964 Oct 23 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y102	2438692.38	1964 Oct 23 2100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y103	2438695.33	1964 Oct 26 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y104	2438696.33	1964 Oct 27 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y105	2438697.42	1964 Oct 28 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y106	2438698.33	1964 Oct 29 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y107	2438699.33	1964 Oct 30 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y108	2438715.33	1964 Nov 15 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1964-Y109	2438718.33	1964 Nov 18 2000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y02	2438772.01	1965 Jan 11 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y03	2438774.04	1965 Jan 13 1300	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y04	2438776.00	1965 Jan 15 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y05	2438779.00	1965 Jan 18 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y06	2438781.00	1965 Jan 20 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y07	2438781.20	1965 Jan 20 1646	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y08	2438783.02	1965 Jan 22 1230	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y09	2438783.24	1965 Jan 22 1742	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y10	2438783.28	1965 Jan 22 1842	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y11	2438802.00	1965 Feb 10 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y12	2438808.00	1965 Feb 16 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y13	2438810.00	1965 Feb 18 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y14	2438811.00	1965 Feb 19 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y17	2438828.00	1965 Mar 8 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y18	2438828.14	1965 Mar 8 1517	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y19	2438829.82	1965 Mar 10 0745	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y20	2438830.00	1965 Mar 10 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y21	2438830.14	1965 Mar 10 1515	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y22	2438830.22	1965 Mar 10 1715	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y23	2438832.00	1965 Mar 12 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y24	2438834.82	1965 Mar 15 0745	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y25	2438835.00	1965 Mar 15 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y26	2438837.00	1965 Mar 17 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y27	2438837.08	1965 Mar 17 1400	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y28	2438838.00	1965 Mar 18 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y29	2438838.02	1965 Mar 18 1230	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y30	2438839.00	1965 Mar 19 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y31	2438839.11	1965 Mar 19 1441	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y32	2438865.01	1965 Apr 14 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y33	2438867.91	1965 Apr 17 0944	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y34	2438869.09	1965 Apr 18 1416	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y35	2438871.01	1965 Apr 20 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y36	2438873.01	1965 Apr 22 1210	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y37	2438879.04	1965 Apr 28 1303	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y38	2438880.94	1965 Apr 30 1030	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y39	2438881.00	1965 Apr 30 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	SR-VII-391	-
1965-Y40	2438881.10	1965 Apr 30 1417:30	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y41	2438881.98	1965 May 1 1124	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y42	2438882.00	1965 May 1 1159	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y43	2438883.01	1965 May 2 1209	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y44	2438884.01	1965 May 3 1211	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y45	2438884.90	1965 May 4 0941	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y46	2438885.01	1965 May 4 1211	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-W67	2438885.13	1965 May 4 1507:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-Y48	2438886.13	1965 May 5 1507	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y47	2438886.05	1965 May 5 1305	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y49	2438886.87	1965 May 6 0858	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y50	2438887.00	1965 May 6 1158	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y51	2438887.91	1965 May 7 0957	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y52	2438888.02	1965 May 7 1222	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y53	2438889.00	1965 May 8 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y54	2438889.08	1965 May 8 1351:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	DSI-5850	-	-
1965-Y55	2438889.87	1965 May 9 0859	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y56	2438890.00	1965 May 9 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y57	2438890.08	1965 May 9 1351	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y58	2438890.90	1965 May 10 0943	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y59	2438891.03	1965 May 10 1242	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y60	2438891.92	1965 May 11 0959	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y61	2438891.96	1965 May 11 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y62	2438892.88	1965 May 12 0905	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y63	2438892.98	1965 May 12 1132	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y64	2438893.01	1965 May 12 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y65	2438893.92	1965 May 13 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y66	2438894.87	1965 May 14 0859	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y67	2438895.88	1965 May 15 0913	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y68	2438895.95	1965 May 15 1041	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y69	2438896.92	1965 May 16 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y70	2438897.92	1965 May 17 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y71	2438899.01	1965 May 18 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y72	2438900.01	1965 May 19 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y73	2438901.00	1965 May 20 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y75	2438906.96	1965 May 26 1058	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y76	2438907.95	1965 May 27 1053	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y77	2438908.95	1965 May 28 1042	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y78	2438909.42	1965 May 28 2203	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y79	2438909.96	1965 May 29 1058	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y80	2438910.42	1965 May 29 2206	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y87	2438911.42	1965 May 30 2201	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y88	2438911.46	1965 May 30 2309	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y89	2438914.11	1965 Jun 2 1445	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y90	2438914.96	1965 Jun 3 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y91	2438915.02	1965 Jun 3 1232	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y92	2438916.00	1965 Jun 4 1206	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y93	2438916.96	1965 Jun 5 1102	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y94	2438917.00	1965 Jun 5 1155	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y95	2438917.96	1965 Jun 6 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y96	2438918.00	1965 Jun 6 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y97	2438918.98	1965 Jun 7 1130	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y98	2438919.00	1965 Jun 7 1158	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y99	2438920.02	1965 Jun 8 1235	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y100	2438920.96	1965 Jun 9 1102	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y101	2438921.01	1965 Jun 9 1216	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y102	2438921.96	1965 Jun 10 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y103	2438922.00	1965 Jun 10 1201	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y104	2438922.96	1965 Jun 11 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y105	2438923.00	1965 Jun 11 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-A83	2438924.02	1965 Jun 12 1224:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1965-Y106	2438925.00	1965 Jun 13 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y107	2438925.01	1965 Jun 13 1221	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y108	2438925.14	1965 Jun 13 1525	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y109	2438925.96	1965 Jun 14 1100	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y110	2438926.00	1965 Jun 14 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y111	2438926.00	1965 Jun 14 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y112	2438926.01	1965 Jun 14 1217	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y113	2438926.98	1965 Jun 15 1127	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y114	2438926.99	1965 Jun 15 1151	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y115	2438927.02	1965 Jun 15 1225	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y116	2438927.13	1965 Jun 15 1509	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y117	2438928.00	1965 Jun 16 1153	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y118	2438928.00	1965 Jun 16 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y119	2438930.01	1965 Jun 18 1210	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y120	2438930.21	1965 Jun 18 1705	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y121	2438931.04	1965 Jun 19 1251	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y122	2438933.12	1965 Jun 21 1500	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y123	2438933.39	1965 Jun 21 2115	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y125	2438935.01	1965 Jun 23 1210	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y124	2438935.00	1965 Jun 23 1153	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y126	2438935.01	1965 Jun 23 1210	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y127	2438947.90	1965 Jul 6 0930	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y128	2438950.84	1965 Jul 9 0815	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y129	2438954.84	1965 Jul 13 0815	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y130	2438962.83	1965 Jul 21 0802	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y131	2438963.85	1965 Jul 22 0817	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y132	2438964.05	1965 Jul 22 1315	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y133	2438964.84	1965 Jul 23 0816	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y134	2438968.01	1965 Jul 26 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y135	2438968.85	1965 Jul 27 0817	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y136	2438970.01	1965 Jul 28 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y137	2438984.84	1965 Aug 12 0816	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y138	2438986.01	1965 Aug 13 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-Y139	2438990.00	1965 Aug 17 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y140	2438991.01	1965 Aug 18 1215	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y141	2439011.85	1965 Sep 8 0817	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y142	2439018.85	1965 Sep 15 0817	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y143	2439023.02	1965 Sep 19 1235	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y144	2439024.03	1965 Sep 20 1240	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y145	2439025.93	1965 Sep 22 1013	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y146	2439026.02	1965 Sep 22 1225	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y147	2439026.89	1965 Sep 23 0916	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y148	2439028.00	1965 Sep 24 1205	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y149	2439039.97	1965 Oct 6 1116	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y150	2439053.01	1965 Oct 19 1211	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y151	2439054.00	1965 Oct 20 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y152	2439061.00	1965 Oct 27 1206	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y153	2439061.96	1965 Oct 28 1107	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y154	2439062.86	1965 Oct 29 0836	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y155	2439081.00	1965 Nov 16 1203	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y156	2439082.00	1965 Nov 17 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y157	2439083.07	1965 Nov 18 1344	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y158	2439089.00	1965 Nov 24 1202	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y161	2439108.02	1965 Dec 13 1235	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y162	2439110.01	1965 Dec 15 1210	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1965-Y163	2439112.00	1965 Dec 17 1200	M-100	-	-	0.000	AN	SS	-	-	Aeron	SSP65	-	-
1966-W08	2439130.01	1966 Jan 4 1214:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W12	2439134.01	1966 Jan 8 1214:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A15	2439138.01	1966 Jan 12 1221:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W18	2439143.02	1966 Jan 17 1222:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W23	2439145.02	1966 Jan 19 1230:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A19	2439147.02	1966 Jan 21 1222:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A20	2439148.00	1966 Jan 22 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A21	2439149.04	1966 Jan 23 1257:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y01	2439150.02	1966 Jan 24 1233:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W25	2439151.00	1966 Jan 25 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W28	2439153.00	1966 Jan 27 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y02	2439154.00	1966 Jan 28 1204:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W30	2439155.02	1966 Jan 29 1225:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y03	2439157.00	1966 Jan 31 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W32	2439158.02	1966 Feb 1 1225:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W37	2439159.02	1966 Feb 2 1223:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W47	2439160.03	1966 Feb 3 1236:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W56	2439161.00	1966 Feb 4 1201:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y04	2439164.00	1966 Feb 7 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y05	2439165.00	1966 Feb 8 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W79	2439166.00	1966 Feb 9 1201:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A32	2439166.26	1966 Feb 9 1820:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W221	2439193.00	1966 Mar 8 1207:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y06	2439195.00	1966 Mar 10 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A45	2439196.00	1966 Mar 11 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y07	2439199.00	1966 Mar 14 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W223	2439201.00	1966 Mar 16 1200:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A54	2439236.01	1966 Apr 20 1213:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W235	2439236.27	1966 Apr 20 1834:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y09	2439238.00	1966 Apr 22 1204:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y10	2439239.00	1966 Apr 23 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A56	2439241.00	1966 Apr 25 1207:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W237	2439243.01	1966 Apr 27 1208:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W256	2439262.00	1966 May 16 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y13	2439264.00	1966 May 18 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y23	2439266.00	1966 May 20 1204:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A70	2439270.01	1966 May 24 1208:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W273	2439290.00	1966 Jun 13 1207:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W274	2439291.00	1966 Jun 14 1206:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A77	2439292.00	1966 Jun 15 1201:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y26	2439293.01	1966 Jun 16 1212:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y28	2439318.00	1966 Jul 11 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y29	2439319.00	1966 Jul 12 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y30	2439321.00	1966 Jul 14 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W294	2439321.72	1966 Jul 15 0514:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y31	2439322.00	1966 Jul 15 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y33	2439355.00	1966 Aug 17 1201:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y35	2439357.00	1966 Aug 19 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y36	2439358.00	1966 Aug 20 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W310	2439363.79	1966 Aug 26 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y39	2439369.00	1966 Aug 31 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A104	2439382.00	1966 Sep 13 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y41	2439384.00	1966 Sep 15 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A106	2439385.00	1966 Sep 16 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y42	2439393.00	1966 Sep 24 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y43	2439404.00	1966 Oct 5 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A122	2439415.79	1966 Oct 17 0702:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W353	2439422.82	1966 Oct 24 0736:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W362	2439429.80	1966 Oct 31 0712:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y57	2439443.79	1966 Nov 14 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A141	2439450.79	1966 Nov 21 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y58	2439459.92	1966 Nov 30 1007:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W393	2439473.77	1966 Dec 14 0630:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-W396	2439474.79	1966 Dec 15 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A154	2439478.79	1966 Dec 19 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A155	2439479.00	1966 Dec 19 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W397	2439479.13	1966 Dec 19 1501:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W398	2439480.97	1966 Dec 21 1121:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A156	2439481.00	1966 Dec 21 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A157	2439481.09	1966 Dec 21 1410:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W399	2439481.96	1966 Dec 22 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W400	2439482.92	1966 Dec 23 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y60	2439483.79	1966 Dec 24 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W401	2439484.87	1966 Dec 25 0847:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W402	2439484.92	1966 Dec 25 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y61	2439485.88	1966 Dec 26 0912:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W403	2439487.37	1966 Dec 27 2046:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W404	2439487.79	1966 Dec 28 0659:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W405	2439488.85	1966 Dec 29 0830:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-W406	2439488.92	1966 Dec 29 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-A160	2439489.85	1966 Dec 30 0830:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y62	2439490.85	1966 Dec 31 0820:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1966-Y63	2439490.92	1966 Dec 31 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A44	2439491.81	1967 Jan 1 0732:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y01	2439492.92	1967 Jan 2 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W19	2439493.83	1967 Jan 3 0800:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W20	2439493.93	1967 Jan 3 1025:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y02	2439494.88	1967 Jan 4 0906:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W21	2439494.88	1967 Jan 4 0912:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y03	2439494.92	1967 Jan 4 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W22	2439495.86	1967 Jan 5 0834:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y04	2439496.84	1967 Jan 6 0803:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y05	2439496.92	1967 Jan 6 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A45	2439497.41	1967 Jan 6 2153:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A46	2439497.87	1967 Jan 7 0853:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y06	2439498.92	1967 Jan 8 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W23	2439500.88	1967 Jan 10 0904:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y07	2439500.92	1967 Jan 10 1009:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A47	2439501.89	1967 Jan 11 0920:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y08	2439505.30	1967 Jan 14 1911:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y09	2439506.92	1967 Jan 16 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A49	2439507.91	1967 Jan 17 0944:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y10	2439507.92	1967 Jan 17 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y11	2439508.89	1967 Jan 18 0922:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W24	2439508.90	1967 Jan 18 0935:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y12	2439508.92	1967 Jan 18 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y13	2439509.98	1967 Jan 19 1134:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y14	2439510.96	1967 Jan 20 1104:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W27	2439511.96	1967 Jan 21 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W28	2439511.96	1967 Jan 21 1104:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A51	2439513.00	1967 Jan 22 1204:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W32	2439513.94	1967 Jan 23 1030:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A52	2439514.00	1967 Jan 23 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y15	2439514.95	1967 Jan 24 1048:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y16	2439515.67	1967 Jan 25 0400:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y17	2439516.96	1967 Jan 26 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W35	2439517.96	1967 Jan 27 1108:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W36	2439518.97	1967 Jan 28 1113:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W37	2439520.97	1967 Jan 30 1113:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y19	2439522.98	1967 Feb 1 1133:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y20	2439525.96	1967 Feb 4 1055:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y21	2439527.94	1967 Feb 6 1026:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A56	2439528.92	1967 Feb 7 0957:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W46	2439529.88	1967 Feb 8 0902:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A59	2439531.91	1967 Feb 10 0953:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y22	2439536.63	1967 Feb 15 0310:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W47	2439536.88	1967 Feb 15 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y23	2439538.01	1967 Feb 16 1212:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-A60	2439539.91	1967 Feb 18 0953:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y24	2439541.91	1967 Feb 20 0953:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y25	2439571.93	1967 Mar 22 1019:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W60	2439571.96	1967 Mar 22 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y26	2439578.92	1967 Mar 29 1008:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W61	2439578.96	1967 Mar 29 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W95	2439590.92	1967 Apr 10 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W96	2439593.04	1967 Apr 12 1256:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W98	2439595.96	1967 Apr 15 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W99	2439596.00	1967 Apr 15 1204:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W100	2439598.00	1967 Apr 17 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W101	2439599.92	1967 Apr 19 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W102	2439603.00	1967 Apr 22 1202:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W103	2439604.92	1967 Apr 24 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W104	2439607.71	1967 Apr 27 0503:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W113	2439616.92	1967 May 6 1000:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y37	2439617.92	1967 May 7 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-S252	2439618.14	1967 May 7 1526	M-100	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	SR9,231	-
1967-A79	2439620.92	1967 May 10 1004:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y38	2439621.00	1967 May 10 1200:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W114	2439623.67	1967 May 13 0404:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-Y39	2439623.88	1967 May 13 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W115	2439625.88	1967 May 15 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-S598	2439625.22	1967 May 14 1720	M-100	-	-	0.000	AN	SS	-	-	Ionos	SR9,231	SR9,231	-
1967-W116	2439625.92	1967 May 15 1003:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W117	2439627.92	1967 May 17 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-S300	2439655.19	1967 Jun 13 1636	M-100	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	SR9,231	-
1967-S303	2439657.19	1967 Jun 15 1638:00	M-100	?	-	0.000	AN	SU	-	-	Ionos	WDCRF	SR9,231	-
1967-S306	2439659.19	1967 Jun 17 1628	M-100	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	SR9,231	-
1967-S307	2439659.39	1967 Jun 17 2115	M-100	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	SR9,231	-
1967-W131	2439661.92	1967 Jun 20 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y40	2439662.92	1967 Jun 21 1007:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W133	2439665.88	1967 Jun 24 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W134	2439667.90	1967 Jun 26 0930:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W135	2439668.96	1967 Jun 27 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W136	2439669.88	1967 Jun 28 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W137	2439669.92	1967 Jun 28 1003:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W148	2439681.88	1967 Jul 10 0902:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W149	2439683.89	1967 Jul 12 0924:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W150	2439683.92	1967 Jul 12 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W152	2439686.88	1967 Jul 15 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W153	2439688.88	1967 Jul 17 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W154	2439688.92	1967 Jul 17 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y42	2439690.88	1967 Jul 19 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W155	2439690.92	1967 Jul 19 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-S385	2439714.35	1967 Aug 11 2025	M-100	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	SR9,231	-
1967-W168	2439720.92	1967 Aug 18 1001:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y43	2439721.88	1967 Aug 19 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W169	2439723.88	1967 Aug 21 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y44	2439723.92	1967 Aug 21 1001:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W172	2439725.92	1967 Aug 23 1001:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y45	2439727.94	1967 Aug 25 1035:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W173	2439732.88	1967 Aug 30 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W177	2439734.92	1967 Sep 1 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y46	2439737.92	1967 Sep 4 1000:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y47	2439739.89	1967 Sep 6 0917:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W180	2439747.92	1967 Sep 14 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W182	2439751.88	1967 Sep 18 0908:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W183	2439751.92	1967 Sep 18 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y48	2439753.88	1967 Sep 20 0909:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W188	2439753.92	1967 Sep 20 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y49	2439779.92	1967 Oct 16 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y50	2439781.92	1967 Oct 18 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W199	2439783.92	1967 Oct 20 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W201	2439786.92	1967 Oct 23 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W205	2439790.92	1967 Oct 27 1000:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W216	2439805.88	1967 Nov 11 0901:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y51	2439809.92	1967 Nov 15 1003:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y52	2439811.92	1967 Nov 17 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W221	2439816.92	1967 Nov 22 1001:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W222	2439816.98	1967 Nov 22 1130:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W223	2439818.87	1967 Nov 24 0849:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W224	2439821.94	1967 Nov 27 1030:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W225	2439822.71	1967 Nov 28 0503:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W227	2439823.92	1967 Nov 29 1007:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y53	2439824.71	1967 Nov 30 0501:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y54	2439832.92	1967 Dec 8 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W235	2439835.92	1967 Dec 11 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y55	2439840.88	1967 Dec 16 0909:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-W238	2439844.88	1967 Dec 20 0900:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1967-Y56	2439844.88	1967 Dec 20 0900:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W25	2439858.88	1968 Jan 3 0900:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y01	2439858.92	1968 Jan 3 1003:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-A53	2439864.92	1968 Jan 9 1003:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W26	2439868.88	1968 Jan 13 0901:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y02	2439872.52	1968 Jan 17 0027:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y03	2439872.54	1968 Jan 17 0059:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W27	2439872.71	1968 Jan 17 0500:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y04	2439872.85	1968 Jan 17 0826:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y05	2439873.02	1968 Jan 17 1227:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W28	2439873.04	1968 Jan 17 1259:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y06	2439873.18	1968 Jan 17 1623:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y07	2439875.91	1968 Jan 20 0953:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W31	2439879.92	1968 Jan 24 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W32	2439880.04	1968 Jan 24 1256:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y09	2439886.92	1968 Jan 31 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W45	2439891.90	1968 Feb 5 0940:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W46	2439891.92	1968 Feb 5 1000:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W47	2439898.92	1968 Feb 12 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-A61	2439900.69	1968 Feb 14 0440:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W49	2439902.67	1968 Feb 16 0402:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y13	2439905.88	1968 Feb 19 0901:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y14	2439912.88	1968 Feb 26 0901:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W50	2439914.67	1968 Feb 28 0401:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y15	2439916.37	1968 Feb 29 2049:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W67	2439919.92	1968 Mar 4 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y19	2439928.88	1968 Mar 13 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-Y20	2439930.62	1968 Mar 15 0300:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W84	2439951.88	1968 Apr 5 0901:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W90	2439965.88	1968 Apr 19 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W98	2439980.88	1968 May 4 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y26	2439982.92	1968 May 6 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W101	2439984.88	1968 May 8 0912:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W102	2439991.88	1968 May 15 0904:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W104	2439992.92	1968 May 16 1007:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y31	2439999.90	1968 May 23 0934:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y32	2440005.63	1968 May 29 0301:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y33	2440005.88	1968 May 29 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y34	2440012.63	1968 Jun 5 0301:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W123	2440019.63	1968 Jun 12 0301:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W124	2440019.89	1968 Jun 12 0927:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y36	2440026.63	1968 Jun 19 0300:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W126	2440026.96	1968 Jun 19 1102:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y38	2440033.63	1968 Jun 26 0303:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W127	2440033.88	1968 Jun 26 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y39	2440038.88	1968 Jul 1 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W146	2440040.35	1968 Jul 2 2027:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y41	2440040.52	1968 Jul 3 0027:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W147	2440040.54	1968 Jul 3 0059:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y42	2440040.69	1968 Jul 3 0432:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W148	2440040.71	1968 Jul 3 0503:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y43	2440040.85	1968 Jul 3 0827:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W149	2440040.88	1968 Jul 3 0910:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y44	2440041.02	1968 Jul 3 1227:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y45	2440041.11	1968 Jul 3 1437:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y46	2440041.21	1968 Jul 3 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W150	2440043.92	1968 Jul 6 1006:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y48	2440047.21	1968 Jul 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-Y49	2440047.62	1968 Jul 10 0300	M-100	-	-	0.000	AN	SS	-	SU/Tulinov	Aeron/Ionos	WDCRF	SR10,762	-
1968-Y50	2440047.65	1968 Jul 10 0332:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W151	2440047.88	1968 Jul 10 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W153	2440054.59	1968 Jul 17 0203:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y51	2440058.88	1968 Jul 21 0908:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y52	2440062.69	1968 Jul 25 0432:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y53	2440065.88	1968 Jul 28 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W162	2440068.88	1968 Jul 31 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y57	2440077.92	1968 Aug 9 0959:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W164	2440082.29	1968 Aug 13 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y59	2440082.88	1968 Aug 14 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y60	2440083.17	1968 Aug 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-Y61	2440083.25	1968 Aug 14 1800:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y62	2440084.21	1968 Aug 15 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W165	2440085.29	1968 Aug 16 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y63	2440088.29	1968 Aug 19 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W166	2440089.46	1968 Aug 20 2300:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W167	2440089.88	1968 Aug 21 0907:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W168	2440090.21	1968 Aug 21 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y64	2440091.17	1968 Aug 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	DSI-5850	-
1968-Y65	2440091.29	1968 Aug 22 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y66	2440092.21	1968 Aug 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-W169	2440092.29	1968 Aug 23 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y67	2440093.17	1968 Aug 24 1559:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y68	2440093.21	1968 Aug 24 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y70	2440096.88	1968 Aug 28 0900:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y71	2440101.17	1968 Sep 01 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-Y72	2440101.29	1968 Sep 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-Y73	2440102.21	1968 Sep 2 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W179	2440102.25	1968 Sep 2 1800:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W180	2440103.25	1968 Sep 3 1800:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W181	2440104.29	1968 Sep 4 1859:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y74	2440105.21	1968 Sep 5 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y75	2440107.21	1968 Sep 7 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W182	2440110.38	1968 Sep 10 2100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W183	2440110.46	1968 Sep 10 2300:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y76	2440110.88	1968 Sep 11 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y77	2440112.33	1968 Sep 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-W186	2440115.17	1968 Sep 15 1559:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y78	2440117.88	1968 Sep 18 0900:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y79	2440117.92	1968 Sep 18 1002:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y80	2440118.21	1968 Sep 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-Y81	2440121.08	1968 Sep 21 1400:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y82	2440121.17	1968 Sep 21 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-W188	2440121.21	1968 Sep 21 1700:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y83	2440121.29	1968 Sep 21 1900:00	M-100	-	-	0.000	AN	SF	U	-	Aeron	WDCRF	-	-
1968-Y84	2440121.89	1968 Sep 22 0914:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y85	2440124.88	1968 Sep 25 0900:00	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	DSI-5850	SR12,1459	-
1968-Y86	2440127.00	1968 Sep 27 1202:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W226	2440131.89	1968 Oct 2 0915:59	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	DSI-5850	SR12,1459	-
1968-S530	2440138.88	1968 Oct 9 0906	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	SR12,1459	-	-
1968-Y87	2440139.09	1968 Oct 9 1403:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W229	2440145.92	1968 Oct 16 1001:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y88	2440152.88	1968 Oct 23 0908:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y90	2440159.88	1968 Oct 30 0908:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W230	2440160.00	1968 Oct 30 1202:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W243	2440164.84	1968 Nov 4 0803:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y94	2440173.89	1968 Nov 13 0914:59	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	DSI-5850	SR12,1459	-
1968-W244	2440175.75	1968 Nov 15 0602:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y96	2440180.89	1968 Nov 20 0924:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W247	2440183.04	1968 Nov 22 1302:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W248	2440187.63	1968 Nov 27 0302:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y98	2440187.88	1968 Nov 27 0901:59	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	DSI-5850	SR12,1459	-
1968-W249	2440189.85	1968 Nov 29 0820:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W264	2440194.88	1968 Dec 4 0904:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y101	2440201.67	1968 Dec 11 0402:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y102	2440201.88	1968 Dec 11 0900:00	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	DSI-5850	SR12,1459	-
1968-W290	2440208.88	1968 Dec 18 0912	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	SR12,1459	-	-
1968-Y105	2440210.96	1968 Dec 20 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W274	2440213.85	1968 Dec 23 0830:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-A116	2440215.71	1968 Dec 25 0500:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W291	2440215.88	1968 Dec 25 0911	M-100	-	-	0.000	GMS?	SS	-	AN/Tulinov	Meteo	SR12,1459	-	-
1968-Y106	2440217.17	1968 Dec 26 1559:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W275	2440217.48	1968 Dec 26 2330:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y107	2440217.72	1968 Dec 27 0511:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W276	2440220.71	1968 Dec 30 0502:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y108	2440220.96	1968 Dec 30 1100:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y109	2440221.16	1968 Dec 30 1549:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-W277	2440221.25	1968 Dec 30 1753:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1968-Y110	2440221.49	1968 Dec 30 2351:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1969-Y02	2440223.66	1969 Jan 2 0350	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y03	2440223.90	1969 Jan 2 0942	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y04	2440224.19	1969 Jan 2 1640	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y05	2440224.20	1969 Jan 2 1645	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y06	2440224.42	1969 Jan 2 2205	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y07	2440224.50	1969 Jan 3 0000	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y08	2440228.62	1969 Jan 7 0300	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y09	2440228.66	1969 Jan 7 0352	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y10	2440228.91	1969 Jan 7 0950	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y11	2440228.92	1969 Jan 7 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y12	2440228.92	1969 Jan 7 1001	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y14	2440229.41	1969 Jan 7 2147	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y15	2440229.88	1969 Jan 8 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y17	2440232.66	1969 Jan 11 0351	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y18	2440232.91	1969 Jan 11 0945	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y19	2440232.92	1969 Jan 11 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y20	2440233.16	1969 Jan 11 1556	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y21	2440233.19	1969 Jan 11 1630	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y22	2440233.41	1969 Jan 11 2145	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y23	2440233.42	1969 Jan 11 2200	M-100	-	MR-12?	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y24	2440234.88	1969 Jan 13 0900	M-100	-	MR-12?	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y26	2440236.84	1969 Jan 15 0808	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y27	2440236.89	1969 Jan 15 0928	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y29	2440237.88	1969 Jan 16 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y30	2440238.88	1969 Jan 17 0905	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y31	2440239.88	1969 Jan 18 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y33	2440240.88	1969 Jan 19 0900	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Aeron	WDCRF	SR12,1459	-
1969-Y36	2440243.88	1969 Jan 22 0903	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y38	2440244.66	1969 Jan 23 0350	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y39	2440244.67	1969 Jan 23 0400	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y41	2440244.88	1969 Jan 23 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y42	2440244.91	1969 Jan 23 0948	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y43	2440244.92	1969 Jan 23 1000	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y44	2440245.18	1969 Jan 23 1620	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y46	2440245.41	1969 Jan 23 2149	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y47	2440245.88	1969 Jan 24 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y48	2440246.17	1969 Jan 24 1558	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y51	2440246.88	1969 Jan 25 0900	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Aeron	WDCRF	SR12,1459	-
1969-Y52	2440247.88	1969 Jan 26 0900	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y53	2440248.66	1969 Jan 27 0353	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y54	2440248.67	1969 Jan 27 0400	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y55	2440248.90	1969 Jan 27 0943	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	WDCRF	SR12,1459	-
1969-Y56	2440248.91	1969 Jan 27 0945	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y57	2440249.16	1969 Jan 27 1545	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y59	2440249.19	1969 Jan 27 1640	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y61	2440249.41	1969 Jan 27 2145	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y63	2440249.42	1969 Jan 27 2200	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-Y64	2440249.88	1969 Jan 28 0907:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y65	2440250.29	1969 Jan 28 1852:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y66	2440250.88	1969 Jan 29 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y67	2440250.92	1969 Jan 29 1002:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y68	2440251.88	1969 Jan 30 0902:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y69	2440251.92	1969 Jan 30 1003:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y70	2440252.34	1969 Jan 30 2004:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y71	2440252.88	1969 Jan 31 0904:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y72	2440253.29	1969 Jan 31 1900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y73	2440254.29	1969 Feb 01 1900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y74	2440254.88	1969 Feb 02 0900:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	WDCRF	SR12,1459	-
1969-Y75	2440255.25	1969 Feb 02 1805:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y76	2440255.29	1969 Feb 02 1900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y77	2440256.25	1969 Feb 03 1806:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-Y78	2440256.33	1969 Feb 03 2000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y79	2440257.25	1969 Feb 04 1800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y80	2440257.33	1969 Feb 04 2000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y81	2440257.83	1969 Feb 05 0802:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y82	2440257.88	1969 Feb 05 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y83	2440258.25	1969 Feb 05 1800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y84	2440258.33	1969 Feb 05 2000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y85	2440258.88	1969 Feb 06 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y86	2440259.24	1969 Feb 06 1745:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y87	2440259.27	1969 Feb 06 1825:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y88	2440259.33	1969 Feb 06 2000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y89	2440259.88	1969 Feb 07 0900:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	WDCRF	SR12,1459	-
1969-Y90	2440260.22	1969 Feb 07 1720:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y91	2440262.42	1969 Feb 09 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y92	2440262.88	1969 Feb 10 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y93	2440263.42	1969 Feb 10 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y94	2440264.42	1969 Feb 11 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y95	2440264.88	1969 Feb 12 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y96	2440265.04	1969 Feb 12 1303:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y97	2440266.88	1969 Feb 14 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y98	2440269.88	1969 Feb 17 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y99	2440271.89	1969 Feb 19 0928:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	WDCDF	SR12,1459	KI13,937
1969-Y100	2440272.08	1969 Feb 19 1348:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y102	2440274.88	1969 Feb 22 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S164	2440285.88	1969 Mar 5 0900	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-S183	2440292.88	1969 Mar 12 0900	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-W1746	2440294.26	1969 Mar 13 1817	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-S186	2440294.40	1969 Mar 13 2133	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-S190	2440295.40	1969 Mar 14 2130	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-W434	2440304.92	1969 Mar 24 1010:00	M-100	-	-	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	DSI-5850	-
1969-S220	2440306.88	1969 Mar 26 0902	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-Y105	2440310.02	1969 Mar 29 1230:00	M-100	-	-	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1969-Y106	2440310.07	1969 Mar 29 1334:59	M-100	-	-	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	DSI-5850	SR11,924	-
1969-Y107	2440310.15	1969 Mar 29 1530:00	M-100	-	-	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	DSI-5850	SR11,924	-
1969-S248	2440313.31	1969 Apr 1 1930	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-S250	2440313.86	1969 Apr 2 0832	M-100	-	-	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-Y108	2440320.92	1969 Apr 9 1003	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	WDCRF	SR11,924	-
1969-Y112	2440327.28	1969 Apr 15 1849:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-Y113	2440327.83	1969 Apr 16 0800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y114	2440327.92	1969 Apr 16 1003:00	M-100	-	Sun-Atm 69	0.000	AN	SU	-	-	Aeron	WDCRF	SR11,924	-
1969-Y115	2440330.06	1969 Apr 18 1330:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y116	2440330.16	1969 Apr 18 1550:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y119	2440331.06	1969 Apr 19 1332:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y120	2440331.15	1969 Apr 19 1529:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y122	2440332.02	1969 Apr 20 1234:00	M-100	-	Sun-Atm 69	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1969-Y123	2440332.16	1969 Apr 20 1554:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y124	2440333.07	1969 Apr 21 1336:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y125	2440333.16	1969 Apr 21 1556:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y126	2440334.83	1969 Apr 23 0800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y127	2440335.01	1969 Apr 23 1210:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y128	2440335.17	1969 Apr 23 1600:00	M-100	-	Sun-Atm 69	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y129	2440335.53	1969 Apr 24 0045:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-Y131	2440341.67	1969 Apr 30 0401:00	M-100	-	M-100	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y132	2440341.83	1969 Apr 30 0800:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	-	-
1969-Y133	2440348.63	1969 May 07 0303:00	M-100	-	M-100	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	WDCRF	SR11,924	-
1969-Y137	2440355.83	1969 May 14 0800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-W726	2440360.67	1969 May 19 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y140	2440361.17	1969 May 19 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y141	2440361.42	1969 May 19 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y142	2440362.42	1969 May 20 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y143	2440362.84	1969 May 21 0803:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y144	2440362.96	1969 May 21 1103:00	M-100	-	M-100	0.000	AN	SS	-	TSAO/Kokin,Popov	Aeron/Particles	SR11,924	WDCRF	-
1969-Y145	2440363.17	1969 May 21 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y146	2440363.42	1969 May 21 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y147	2440363.67	1969 May 22 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y148	2440363.92	1969 May 22 1000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y149	2440365.42	1969 May 23 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y150	2440365.96	1969 May 24 1100:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y151	2440366.17	1969 May 24 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y152	2440366.58	1969 May 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y153	2440366.67	1969 May 25 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y154	2440367.46	1969 May 25 2300:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y155	2440368.42	1969 May 26 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y156	2440369.17	1969 May 27 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y157	2440369.58	1969 May 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y158	2440369.86	1969 May 28 0835:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y159	2440369.98	1969 May 28 1126:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y160	2440371.63	1969 May 30 0302:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y161	2440372.58	1969 May 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y162	2440375.42	1969 Jun 02 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y163	2440376.42	1969 Jun 03 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y164	2440376.58	1969 Jun 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y165	2440376.67	1969 Jun 04 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y166	2440376.67	1969 Jun 04 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y167	2440376.84	1969 Jun 04 0811:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-W793	2440377.17	1969 Jun 4 1559:59	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-Y168	2440379.42	1969 Jun 06 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y169	2440379.67	1969 Jun 07 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y170	2440379.92	1969 Jun 07 1000:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y171	2440380.17	1969 Jun 07 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y172	2440381.42	1969 Jun 08 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y173	2440382.42	1969 Jun 09 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y174	2440382.67	1969 Jun 10 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y175	2440383.43	1969 Jun 10 2214:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y176	2440383.58	1969 Jun 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y177	2440383.84	1969 Jun 11 0805:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y178	2440384.42	1969 Jun 11 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y180	2440385.42	1969 Jun 12 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y181	2440385.67	1969 Jun 13 0400:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y182	2440386.17	1969 Jun 13 1600:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y183	2440390.86	1969 Jun 18 0837:00	M-100	-	M-100	0.000	AN	SS	-	AN/Tulinov	Plasma	SR12,1459	KI13,937	-
1969-Y184	2440397.83	1969 Jun 25 0800:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y185	2440397.92	1969 Jun 25 1001:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y187	2440404.88	1969 Jul 02 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y188	2440404.92	1969 Jul 02 1001:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y190	2440411.88	1969 Jul 09 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y192	2440418.88	1969 Jul 16 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y193	2440418.92	1969 Jul 16 1004:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y195	2440425.88	1969 Jul 23 0903:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y196	2440425.92	1969 Jul 23 1001:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y197	2440426.38	1969 Jul 23 2100:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y198	2440427.38	1969 Jul 24 2102:00	M-100	-	-	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1969-Y202	2440432.63	1969 Jul 30 0301:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y203	2440432.88	1969 Jul 30 0900:00	M-100	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y205	2440439.88	1969 Aug 06 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y209	2440453.88	1969 Aug 20 0900:00	M-100	-	MP-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y211	2440460.94	1969 Aug 27 1037:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y212	2440467.58	1969 Sep 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y213	2440467.88	1969 Sep 03 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y214	2440467.92	1969 Sep 03 1003:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y215	2440474.58	1969 Sep 10 0200:00	M-100	?	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y216	2440474.88	1969 Sep 10 0900:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y217	2440481.33	1969 Sep 16 1950:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y218	2440481.40	1969 Sep 16 2143:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y219	2440481.58	1969 Sep 17 0200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y220	2440481.88	1969 Sep 17 0910:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y221	2440481.92	1969 Sep 17 1002:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y222	2440482.33	1969 Sep 17 1950:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y223	2440482.40	1969 Sep 17 2140:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y224	2440482.99	1969 Sep 18 1145:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y225	2440483.42	1969 Sep 18 2159:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y226	2440483.46	1969 Sep 18 2308:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y227	2440484.34	1969 Sep 19 2010:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y228	2440484.44	1969 Sep 19 2232:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-W1276	2440484.92	1969 Sep 20 1007:00	M-100	-	-	0.000	GMS?	SS	-	-	Meteo	DSI-5850	-	-
1969-Y229	2440485.34	1969 Sep 20 2008:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y230	2440488.58	1969 Sep 24 0200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y231	2440488.67	1969 Sep 24 0408:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y232	2440488.89	1969 Sep 24 0920:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y233	2440490.47	1969 Sep 25 2315:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y234	2440491.34	1969 Sep 26 2005:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y235	2440491.42	1969 Sep 26 2200:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y236	2440492.29	1969 Sep 27 1900	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y237	2440493.34	1969 Sep 28 2003	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y238	2440493.42	1969 Sep 28 2200	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y239	2440494.39	1969 Sep 29 2123:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y240	2440494.44	1969 Sep 29 2231:00	M-100	-	M-100	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y241	2440495.88	1969 Oct 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y243	2440497.08	1969 Oct 02 1401:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y244	2440497.86	1969 Oct 03 0841:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y245	2440502.58	1969 Oct 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y246	2440502.67	1969 Oct 08 0405:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y247	2440502.88	1969 Oct 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y249	2440506.33	1969 Oct 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y250	2440506.41	1969 Oct 11 2154:00	M-100	-	-	0.000	AN	SF	U	-	Aeron	WDCRF	-	-
1969-Y251	2440507.33	1969 Oct 12 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y252	2440507.41	1969 Oct 12 2144:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y253	2440508.33	1969 Oct 13 1955:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y254	2440508.41	1969 Oct 13 2155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y255	2440509.41	1969 Oct 14 2145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y256	2440509.58	1969 Oct 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y257	2440509.88	1969 Oct 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y258	2440510.33	1969 Oct 15 1957:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y259	2440510.41	1969 Oct 15 2145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y260	2440510.58	1969 Oct 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y261	2440510.92	1969 Oct 16 1002:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y263	2440513.40	1969 Oct 18 2136:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y264	2440513.44	1969 Oct 18 2236:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y265	2440514.30	1969 Oct 19 1906:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y266	2440514.42	1969 Oct 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y267	2440515.31	1969 Oct 20 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y268	2440515.43	1969 Oct 20 2217:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-Y269	2440515.91	1969 Oct 21 0949:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y270	2440516.29	1969 Oct 21 1854:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y271	2440516.37	1969 Oct 21 2058:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y272	2440516.62	1969 Oct 22 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y273	2440516.88	1969 Oct 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y276	2440523.59	1969 Oct 29 0207:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y277	2440523.88	1969 Oct 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y278	2440530.59	1969 Nov 05 0207:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y279	2440530.88	1969 Nov 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y280	2440537.60	1969 Nov 12 0219:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y281	2440537.88	1969 Nov 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y284	2440544.58	1969 Nov 19 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y285	2440544.88	1969 Nov 19 0903:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y286	2440551.58	1969 Nov 26 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y287	2440551.88	1969 Nov 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y288	2440552.92	1969 Nov 27 1003:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y289	2440565.58	1969 Dec 10 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y290	2440566.92	1969 Dec 11 1001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y292	2440572.58	1969 Dec 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y293	2440572.89	1969 Dec 17 0915:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y295	2440573.67	1969 Dec 18 0407:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y296	2440579.69	1969 Dec 24 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y297	2440579.70	1969 Dec 24 0452:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y298	2440585.22	1969 Dec 29 1710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y299	2440586.58	1969 Dec 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y300	2440586.88	1969 Dec 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y01	2440593.42	1970 Jan 06 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	Note002	-
1970-Y02	2440593.50	1970 Jan 07 0001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y03	2440593.58	1970 Jan 07 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y04	2440594.35	1970 Jan 07 2025:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y05	2440594.43	1970 Jan 07 2218:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y07	2440595.36	1970 Jan 08 2034:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y08	2440595.44	1970 Jan 08 2239:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y10	2440596.35	1970 Jan 09 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y11	2440596.42	1970 Jan 09 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y12	2440597.33	1970 Jan 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y13	2440598.33	1970 Jan 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y15	2440600.58	1970 Jan 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y17	2440600.68	1970 Jan 14 0417:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y18	2440600.89	1970 Jan 14 0917:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y19	2440600.94	1970 Jan 14 1035:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y21	2440604.33	1970 Jan 17 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y22	2440605.34	1970 Jan 18 2006:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y23	2440605.42	1970 Jan 18 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y24	2440606.33	1970 Jan 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y25	2440606.42	1970 Jan 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y26	2440607.31	1970 Jan 20 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y27	2440607.37	1970 Jan 20 2049:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y28	2440607.44	1970 Jan 20 2237:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y29	2440607.58	1970 Jan 21 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y31	2440608.39	1970 Jan 21 2115:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y32	2440611.88	1970 Jan 25 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y33	2440614.58	1970 Jan 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y34	2440614.88	1970 Jan 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y35	2440614.93	1970 Jan 28 1015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y37	2440616.88	1970 Jan 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y38	2440618.88	1970 Feb 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y39	2440621.58	1970 Feb 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y40	2440621.88	1970 Feb 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y41	2440621.88	1970 Feb 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y42	2440622.33	1970 Feb 04 2001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y43	2440622.42	1970 Feb 04 2201:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y44	2440622.92	1970 Feb 05 1005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y45	2440623.36	1970 Feb 05 2045:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y46	2440623.56	1970 Feb 06 0123:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y47	2440623.89	1970 Feb 06 0919:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y48	2440624.33	1970 Feb 06 2001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y49	2440624.42	1970 Feb 06 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y50	2440625.37	1970 Feb 07 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y51	2440625.44	1970 Feb 07 2232:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y52	2440625.88	1970 Feb 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y53	2440628.59	1970 Feb 11 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y54	2440628.70	1970 Feb 11 0441:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y55	2440628.88	1970 Feb 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y56	2440628.92	1970 Feb 11 1010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y57	2440629.42	1970 Feb 11 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y58	2440630.33	1970 Feb 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y59	2440631.33	1970 Feb 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y60	2440631.42	1970 Feb 13 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y61	2440631.88	1970 Feb 14 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y62	2440632.33	1970 Feb 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y63	2440632.42	1970 Feb 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y64	2440633.88	1970 Feb 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y65	2440635.36	1970 Feb 17 2043:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y353	2440635.38	1970 Feb 17 2100	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15,237	Note001	-
1970-Y66	2440635.45	1970 Feb 17 2245:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-Y67	2440635.58	1970 Feb 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y68	2440635.68	1970 Feb 18 0418:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y69	2440635.88	1970 Feb 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y72	2440636.35	1970 Feb 18 2017:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y73	2440636.43	1970 Feb 18 2218:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y74	2440638.88	1970 Feb 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y75	2440642.59	1970 Feb 25 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y76	2440642.59	1970 Feb 25 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y77	2440643.02	1970 Feb 25 1230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y78	2440643.88	1970 Feb 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y79	2440646.13	1970 Feb 28 1510:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y80	2440649.64	1970 Mar 04 0315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y81	2440649.88	1970 Mar 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y82	2440650.94	1970 Mar 05 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y83	2440652.88	1970 Mar 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y84	2440654.34	1970 Mar 08 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y85	2440654.42	1970 Mar 08 2211:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y86	2440656.36	1970 Mar 10 2034:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y87	2440656.45	1970 Mar 10 2242:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y88	2440656.58	1970 Mar 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y89	2440656.88	1970 Mar 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y90	2440657.33	1970 Mar 11 1954:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y91	2440657.41	1970 Mar 11 2144:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y92	2440657.92	1970 Mar 12 1001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y93	2440658.35	1970 Mar 12 2025:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y94	2440658.41	1970 Mar 12 2154:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y95	2440659.34	1970 Mar 13 2013:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y96	2440659.40	1970 Mar 13 2134:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y97	2440663.58	1970 Mar 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y98	2440663.88	1970 Mar 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y99	2440664.67	1970 Mar 19 0405:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y100	2440666.88	1970 Mar 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y101	2440670.31	1970 Mar 24 1923:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y102	2440670.40	1970 Mar 24 2132:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y103	2440670.58	1970 Mar 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y104	2440670.88	1970 Mar 25 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y105	2440671.32	1970 Mar 25 1947:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y107	2440671.37	1970 Mar 25 2059:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y108	2440671.38	1970 Mar 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y109	2440672.36	1970 Mar 26 2032:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y110	2440672.39	1970 Mar 26 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y114	2440673.88	1970 Mar 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y115	2440675.33	1970 Mar 29 1953:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y116	2440675.40	1970 Mar 29 2137:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y117	2440676.33	1970 Mar 30 1956:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y118	2440677.58	1970 Apr 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y119	2440677.71	1970 Apr 01 0501:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y120	2440677.88	1970 Apr 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y121	2440680.88	1970 Apr 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y122	2440683.33	1970 Apr 06 1954:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y123	2440683.41	1970 Apr 06 2145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y124	2440684.31	1970 Apr 07 1931:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y125	2440684.88	1970 Apr 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y127	2440685.32	1970 Apr 08 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y128	2440685.40	1970 Apr 08 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y132	2440686.33	1970 Apr 09 1949:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y133	2440686.38	1970 Apr 09 2110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y134	2440687.31	1970 Apr 10 1931:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y135	2440687.88	1970 Apr 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y138	2440690.33	1970 Apr 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y141	2440691.33	1970 Apr 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y142	2440691.59	1970 Apr 15 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y143	2440691.88	1970 Apr 15 0911:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y145	2440692.31	1970 Apr 15 1925:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y147	2440692.39	1970 Apr 15 2126:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y149	2440692.83	1970 Apr 16 0802:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y150	2440693.33	1970 Apr 16 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y151	2440693.39	1970 Apr 16 2128:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y153	2440694.32	1970 Apr 17 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y154	2440694.39	1970 Apr 17 2127:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y155	2440695.30	1970 Apr 18 1917:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y156	2440695.40	1970 Apr 18 2133:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y157	2440698.95	1970 Apr 22 1050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y158	2440703.71	1970 Apr 27 0501:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y159	2440705.59	1970 Apr 29 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y160	2440705.88	1970 Apr 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y161	2440712.58	1970 May 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y162	2440712.88	1970 May 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y163	2440719.58	1970 May 13 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y164	2440719.88	1970 May 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y165	2440720.88	1970 May 14 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y166	2440720.94	1970 May 14 1032:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y167	2440726.58	1970 May 20 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y168	2440726.88	1970 May 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y169	2440727.81	1970 May 21 0731:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y170	2440727.88	1970 May 21 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-Y171	2440733.59	1970 May 27 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y172	2440733.88	1970 May 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y173	2440741.92	1970 Jun 04 1001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y175	2440747.59	1970 Jun 10 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y176	2440747.88	1970 Jun 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y177	2440749.67	1970 Jun 12 0359:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y178	2440754.58	1970 Jun 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y179	2440754.88	1970 Jun 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y180	2440755.46	1970 Jun 17 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y181	2440756.33	1970 Jun 18 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y182	2440758.33	1970 Jun 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y183	2440759.38	1970 Jun 21 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y184	2440761.88	1970 Jun 24 0905:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y186	2440768.59	1970 Jul 01 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y187	2440768.88	1970 Jul 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y189	2440769.34	1970 Jul 01 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y190	2440769.42	1970 Jul 01 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y191	2440773.34	1970 Jul 05 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y192	2440774.27	1970 Jul 06 1824:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y193	2440774.34	1970 Jul 06 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y194	2440774.50	1970 Jul 07 0005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y195	2440775.50	1970 Jul 08 0005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y196	2440775.88	1970 Jul 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y197	2440775.92	1970 Jul 08 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y198	2440776.33	1970 Jul 08 1956:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y199	2440778.27	1970 Jul 10 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y200	2440781.33	1970 Jul 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y201	2440781.44	1970 Jul 13 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y202	2440782.81	1970 Jul 15 0720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y203	2440782.88	1970 Jul 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y204	2440783.25	1970 Jul 15 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y205	2440783.33	1970 Jul 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y206	2440785.35	1970 Jul 17 2024:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y207	2440785.43	1970 Jul 17 2222:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y208	2440786.34	1970 Jul 18 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y209	2440786.42	1970 Jul 18 2205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y210	2440788.33	1970 Jul 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y211	2440788.41	1970 Jul 20 2150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y212	2440789.33	1970 Jul 21 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y213	2440789.88	1970 Jul 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y214	2440790.07	1970 Jul 22 1335:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y215	2440790.37	1970 Jul 22 2054:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y216	2440796.58	1970 Jul 29 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y217	2440796.88	1970 Jul 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y218	2440803.60	1970 Aug 05 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y219	2440804.21	1970 Aug 05 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y220	2440806.88	1970 Aug 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y221	2440810.58	1970 Aug 12 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y222	2440810.88	1970 Aug 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y223	2440811.75	1970 Aug 13 0602:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y224	2440817.58	1970 Aug 19 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y225	2440817.88	1970 Aug 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y226	2440818.96	1970 Aug 20 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y227	2440820.88	1970 Aug 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y228	2440824.58	1970 Aug 26 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y229	2440824.88	1970 Aug 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y230	2440825.88	1970 Aug 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y231	2440825.92	1970 Aug 27 1002:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y232	2440831.88	1970 Sep 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y233	2440832.07	1970 Sep 02 1335:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y236	2440832.71	1970 Sep 03 0501:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y237	2440838.58	1970 Sep 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y238	2440838.88	1970 Sep 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y240	2440839.92	1970 Sep 10 1002:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y241	2440844.92	1970 Sep 15 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y242	2440845.59	1970 Sep 16 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y244	2440852.88	1970 Sep 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y247	2440859.58	1970 Sep 30 0155:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y248	2440859.88	1970 Sep 30 0905:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y250	2440860.30	1970 Sep 30 1910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y251	2440866.58	1970 Oct 07 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y252	2440866.67	1970 Oct 07 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y257	2440873.58	1970 Oct 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y259	2440873.67	1970 Oct 14 0403:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y260	2440873.91	1970 Oct 14 0955:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y261	2440880.59	1970 Oct 21 0215:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y262	2440880.67	1970 Oct 21 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y263	2440880.88	1970 Oct 21 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y266	2440887.58	1970 Oct 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y267	2440887.88	1970 Oct 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y270	2440888.29	1970 Oct 28 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y271	2440892.42	1970 Nov 01 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y272	2440894.58	1970 Nov 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y273	2440894.67	1970 Nov 04 0401:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y274	2440894.89	1970 Nov 04 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y277	2440897.17	1970 Nov 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-Y278	2440897.54	1970 Nov 07 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y279	2440901.88	1970 Nov 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y280	2440902.88	1970 Nov 12 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y283	2440905.12	1970 Nov 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y284	2440908.12	1970 Nov 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y285	2440908.64	1970 Nov 18 0320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y286	2440908.88	1970 Nov 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y287	2440909.12	1970 Nov 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y290	2440910.12	1970 Nov 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y291	2440910.50	1970 Nov 20 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y292	2440910.67	1970 Nov 20 0401:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y293	2440911.17	1970 Nov 20 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y294	2440912.12	1970 Nov 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y295	2440912.50	1970 Nov 22 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y296	2440913.54	1970 Nov 23 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y297	2440914.12	1970 Nov 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y298	2440915.12	1970 Nov 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y299	2440915.29	1970 Nov 24 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y301	2440916.83	1970 Nov 26 0801:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y302	2440917.21	1970 Nov 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y303	2440917.73	1970 Nov 27 0525:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y304	2440920.12	1970 Nov 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y305	2440920.62	1970 Nov 30 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y306	2440922.88	1970 Dec 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y308	2440923.29	1970 Dec 02 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y309	2440923.38	1970 Dec 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y310	2440923.79	1970 Dec 03 0703:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y311	2440923.92	1970 Dec 03 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y313	2440926.29	1970 Dec 05 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y314	2440926.92	1970 Dec 06 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y315	2440928.17	1970 Dec 07 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y316	2440929.12	1970 Dec 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y317	2440929.58	1970 Dec 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y318	2440929.88	1970 Dec 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y319	2440929.92	1970 Dec 09 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y321	2440930.24	1970 Dec 09 1745:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	SR16,115	-
1970-Y322	2440931.65	1970 Dec 11 0341:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y323	2440931.92	1970 Dec 11 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y324	2440934.12	1970 Dec 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y326	2440935.12	1970 Dec 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y327	2440936.58	1970 Dec 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y328	2440936.88	1970 Dec 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y329	2440937.12	1970 Dec 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y331	2440937.23	1970 Dec 16 1736:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y332	2440938.25	1970 Dec 17 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y333	2440940.08	1970 Dec 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y334	2440942.65	1970 Dec 22 0332:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y335	2440942.79	1970 Dec 22 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y336	2440943.58	1970 Dec 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y337	2440943.88	1970 Dec 23 0906:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y338	2440944.08	1970 Dec 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y340	2440944.23	1970 Dec 23 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y341	2440944.96	1970 Dec 24 1103:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y342	2440947.12	1970 Dec 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y343	2440948.08	1970 Dec 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y344	2440949.08	1970 Dec 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y345	2440949.33	1970 Dec 28 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y346	2440949.96	1970 Dec 29 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y347	2440950.58	1970 Dec 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y348	2440950.69	1970 Dec 30 0431:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y349	2440950.87	1970 Dec 30 0855:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y350	2440951.12	1970 Dec 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y351	2440951.23	1970 Dec 30 1735:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-Y352	2440951.79	1970 Dec 31 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y01	2440953.34	1971 Jan 01 2003:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y02	2440957.58	1971 Jan 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y03	2440957.88	1971 Jan 06 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y05	2440958.23	1971 Jan 06 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y06	2440958.88	1971 Jan 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y07	2440959.88	1971 Jan 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y09	2440962.96	1971 Jan 11 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y10	2440963.42	1971 Jan 11 2206:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y11	2440963.75	1971 Jan 12 0555:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y12	2440963.98	1971 Jan 12 1130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y13	2440964.21	1971 Jan 12 1657:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y14	2440964.35	1971 Jan 12 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y15	2440964.58	1971 Jan 13 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y16	2440964.88	1971 Jan 13 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y17	2440965.12	1971 Jan 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y19	2440965.21	1971 Jan 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y20	2440965.23	1971 Jan 13 1735:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y21	2440965.75	1971 Jan 14 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y22	2440966.00	1971 Jan 14 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y23	2440966.12	1971 Jan 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y24	2440967.96	1971 Jan 16 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y25	2440968.12	1971 Jan 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-Y26	2440969.88	1971 Jan 18 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y27	2440969.96	1971 Jan 18 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y29	2440971.58	1971 Jan 20 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y30	2440971.69	1971 Jan 20 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y31	2440971.88	1971 Jan 20 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y32	2440971.96	1971 Jan 20 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y34	2440972.23	1971 Jan 20 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y36	2440972.92	1971 Jan 21 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y37	2440973.88	1971 Jan 22 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y38	2440973.96	1971 Jan 22 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y40	2440976.08	1971 Jan 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y41	2440976.88	1971 Jan 25 0912:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y42	2440978.62	1971 Jan 27 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y43	2440978.88	1971 Jan 27 0912:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y45	2440980.88	1971 Jan 29 0902:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y47	2440981.72	1971 Jan 30 0522:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y48	2440983.75	1971 Feb 01 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y49	2440983.88	1971 Feb 01 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y50	2440985.58	1971 Feb 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y51	2440985.71	1971 Feb 03 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y54	2440986.30	1971 Feb 03 1905:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y56	2440986.62	1971 Feb 04 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y57	2440987.75	1971 Feb 05 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y58	2440987.88	1971 Feb 05 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y59	2440990.83	1971 Feb 08 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y60	2440990.88	1971 Feb 08 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y62	2440992.88	1971 Feb 10 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y64	2440992.92	1971 Feb 10 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y65	2440993.25	1971 Feb 10 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y66	2440994.88	1971 Feb 12 0908:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y67	2440995.88	1971 Feb 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y68	2440997.88	1971 Feb 15 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y69	2440999.54	1971 Feb 17 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y70	2440999.58	1971 Feb 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y71	2440999.88	1971 Feb 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y72	2440999.88	1971 Feb 17 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y74	2441000.23	1971 Feb 17 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y76	2441004.88	1971 Feb 22 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y77	2441006.58	1971 Feb 24 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y78	2441006.83	1971 Feb 24 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y79	2441006.88	1971 Feb 24 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y82	2441007.23	1971 Feb 24 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y84	2441008.90	1971 Feb 26 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y85	2441013.58	1971 Mar 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y86	2441013.58	1971 Mar 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y87	2441013.88	1971 Mar 03 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y89	2441014.25	1971 Mar 03 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y91	2441020.58	1971 Mar 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y92	2441020.58	1971 Mar 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y93	2441020.88	1971 Mar 10 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y94	2441021.23	1971 Mar 10 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y96	2441027.58	1971 Mar 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y97	2441027.88	1971 Mar 17 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y98	2441028.12	1971 Mar 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y99	2441028.19	1971 Mar 17 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y101	2441030.12	1971 Mar 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y102	2441034.67	1971 Mar 24 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y103	2441034.88	1971 Mar 24 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y104	2441035.20	1971 Mar 24 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y107	2441037.88	1971 Mar 27 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y108	2441041.61	1971 Mar 31 0236:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y109	2441041.62	1971 Mar 31 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y110	2441041.88	1971 Mar 31 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y113	2441042.19	1971 Mar 31 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y116	2441047.06	1971 Apr 05 1327:00	M-100	-	-	0.000	AN	SS	-	PRL/Bhavsar,Desai	Aeron	WDCRF	-	-
1971-Y117	2441047.08	1971 Apr 05 1402:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y118	2441048.59	1971 Apr 07 0209:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y119	2441048.62	1971 Apr 07 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y120	2441048.88	1971 Apr 07 0905:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y123	2441051.88	1971 Apr 10 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y124	2441055.61	1971 Apr 14 0235:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y125	2441055.62	1971 Apr 14 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y127	2441062.60	1971 Apr 21 0226:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y128	2441062.88	1971 Apr 21 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y129	2441063.00	1971 Apr 21 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y132	2441069.58	1971 Apr 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y133	2441069.88	1971 Apr 28 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y135	2441070.17	1971 Apr 28 1603:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y137	2441074.91	1971 May 03 0948:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y138	2441076.58	1971 May 05 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y139	2441076.88	1971 May 05 0903:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y141	2441077.62	1971 May 06 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y142	2441079.88	1971 May 08 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y143	2441083.56	1971 May 12 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y144	2441083.88	1971 May 12 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-W689	2441089.37	1971 May 17 2048:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-Y148	2441090.58	1971 May 19 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y149	2441090.88	1971 May 19 0914:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y151	2441091.11	1971 May 19 1435:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y152	2441091.11	1971 May 19 1445:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y156	2441092.35	1971 May 20 2022:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y157	2441092.42	1971 May 20 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y159	2441094.35	1971 May 22 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y160	2441096.38	1971 May 24 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y161	2441097.90	1971 May 26 0931:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y162	2441098.10	1971 May 26 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y163	2441098.11	1971 May 26 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y165	2441099.40	1971 May 27 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y166	2441099.58	1971 May 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y167	2441101.23	1971 May 29 1734:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y168	2441104.10	1971 Jun 01 1427:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y169	2441104.91	1971 Jun 02 0956:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y170	2441105.11	1971 Jun 02 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y173	2441109.33	1971 Jun 06 1957:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y174	2441111.58	1971 Jun 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y176	2441112.11	1971 Jun 09 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y178	2441112.30	1971 Jun 09 1905:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y179	2441113.33	1971 Jun 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y180	2441115.29	1971 Jun 12 1859:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y181	2441116.29	1971 Jun 13 1859:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y182	2441117.29	1971 Jun 14 1853:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y183	2441118.88	1971 Jun 16 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y184	2441119.10	1971 Jun 16 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y185	2441119.11	1971 Jun 16 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y186	2441119.29	1971 Jun 16 1856:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y189	2441126.11	1971 Jun 23 1445:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y191	2441127.33	1971 Jun 24 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y193	2441129.21	1971 Jun 26 1707:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y194	2441131.33	1971 Jun 28 2001:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y195	2441131.95	1971 Jun 29 1043:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y196	2441132.58	1971 Jun 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y197	2441132.88	1971 Jun 30 0901:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y198	2441133.17	1971 Jun 30 1606:00	M-100	-	-	0.000	AN	SF	U	-	Aeron	WDCRF	-	-
1971-Y199	2441133.34	1971 Jun 30 2003:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y202	2441134.33	1971 Jul 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y204	2441135.38	1971 Jul 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y205	2441136.33	1971 Jul 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y206	2441139.08	1971 Jul 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y208	2441139.88	1971 Jul 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y210	2441140.10	1971 Jul 07 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y212	2441141.21	1971 Jul 08 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y213	2441142.29	1971 Jul 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y214	2441146.58	1971 Jul 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y215	2441146.88	1971 Jul 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y218	2441147.11	1971 Jul 14 1434:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y219	2441147.12	1971 Jul 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y222	2441153.88	1971 Jul 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y224	2441154.10	1971 Jul 21 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y225	2441154.12	1971 Jul 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y227	2441160.88	1971 Jul 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y229	2441161.11	1971 Jul 28 1437:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y232	2441167.58	1971 Aug 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y233	2441167.88	1971 Aug 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y235	2441168.10	1971 Aug 04 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y236	2441168.12	1971 Aug 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y237	2441168.12	1971 Aug 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y241	2441174.88	1971 Aug 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y243	2441175.11	1971 Aug 11 1433:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y244	2441175.12	1971 Aug 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y245	2441175.12	1971 Aug 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y248	2441175.54	1971 Aug 12 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y249	2441181.58	1971 Aug 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y250	2441181.88	1971 Aug 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y251	2441182.10	1971 Aug 18 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y252	2441182.12	1971 Aug 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y255	2441188.12	1971 Aug 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y256	2441188.58	1971 Aug 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y257	2441188.92	1971 Aug 25 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y259	2441189.10	1971 Aug 25 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y261	2441194.58	1971 Aug 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y262	2441194.88	1971 Aug 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y263	2441195.58	1971 Sep 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y264	2441195.88	1971 Sep 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y266	2441196.10	1971 Sep 01 1430:00	M-100	-	TERLS-345	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y267	2441196.12	1971 Sep 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y268	2441197.58	1971 Sep 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y269	2441197.88	1971 Sep 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y271	2441203.00	1971 Sep 08 1206:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y272	2441203.10	1971 Sep 08 1430:00	M-100	-	TERLS-346?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y273	2441207.12	1971 Sep 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y274	2441209.46	1971 Sep 14 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y275	2441209.88	1971 Sep 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-Y277	2441210.09	1971 Sep 15 1405:00	M-100	-	TERLS-347	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y278	2441210.12	1971 Sep 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y279	2441210.25	1971 Sep 15 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y280	2441210.33	1971 Sep 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y281	2441216.89	1971 Sep 22 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y283	2441217.10	1971 Sep 22 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y285	2441217.17	1971 Sep 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y286	2441219.11	1971 Sep 24 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y287	2441223.62	1971 Sep 29 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y288	2441223.88	1971 Sep 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y289	2441224.10	1971 Sep 29 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y290	2441226.17	1971 Oct 01 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y291	2441226.65	1971 Oct 02 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y292	2441227.65	1971 Oct 03 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y293	2441228.15	1971 Oct 03 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y294	2441228.65	1971 Oct 04 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y295	2441229.15	1971 Oct 04 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y296	2441229.65	1971 Oct 05 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y297	2441230.12	1971 Oct 05 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y298	2441230.58	1971 Oct 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y299	2441230.88	1971 Oct 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y301	2441231.10	1971 Oct 06 1430:00	M-100	-	TERLS-363	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y302	2441231.11	1971 Oct 06 1445:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y303	2441231.12	1971 Oct 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y304	2441231.65	1971 Oct 07 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y305	2441231.73	1971 Oct 07 0535:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y306	2441232.11	1971 Oct 07 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y307	2441232.65	1971 Oct 08 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y308	2441232.65	1971 Oct 08 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y309	2441233.12	1971 Oct 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y310	2441234.08	1971 Oct 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y311	2441237.58	1971 Oct 13 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y312	2441237.88	1971 Oct 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y313	2441238.10	1971 Oct 13 1431:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y314	2441238.12	1971 Oct 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y316	2441244.58	1971 Oct 20 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y317	2441244.88	1971 Oct 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y319	2441245.10	1971 Oct 20 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y320	2441245.12	1971 Oct 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y321	2441251.58	1971 Oct 27 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y322	2441251.88	1971 Oct 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y323	2441252.12	1971 Oct 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y324	2441252.18	1971 Oct 27 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y326	2441258.58	1971 Nov 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y327	2441258.88	1971 Nov 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y329	2441259.10	1971 Nov 03 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-W1454	2441259.12	1971 Nov 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y332	2441265.58	1971 Nov 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y333	2441266.10	1971 Nov 10 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y334	2441266.12	1971 Nov 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y336	2441272.58	1971 Nov 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y337	2441272.88	1971 Nov 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y339	2441273.10	1971 Nov 17 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y340	2441273.10	1971 Nov 17 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y341	2441273.12	1971 Nov 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y344	2441279.88	1971 Nov 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y345	2441280.10	1971 Nov 24 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y346	2441280.12	1971 Nov 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y347	2441280.58	1971 Nov 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y349	2441286.58	1971 Dec 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y350	2441286.88	1971 Dec 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y352	2441287.10	1971 Dec 01 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y354	2441287.33	1971 Dec 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y355	2441293.62	1971 Dec 08 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y356	2441293.88	1971 Dec 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y357	2441294.10	1971 Dec 08 1430:00	M-100	-	TERLS-390	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y358	2441294.17	1971 Dec 08 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y359	2441300.25	1971 Dec 14 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y360	2441300.58	1971 Dec 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y361	2441300.89	1971 Dec 15 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y363	2441301.12	1971 Dec 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y364	2441301.12	1971 Dec 15 1500:00	M-100	-	TERLS-391	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-Y368	2441307.29	1971 Dec 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y369	2441307.58	1971 Dec 22 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y370	2441307.88	1971 Dec 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y371	2441308.12	1971 Dec 22 1500:00	M-100	-	TERLS-396	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y372	2441308.12	1971 Dec 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y373	2441314.38	1971 Dec 28 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y374	2441314.58	1971 Dec 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y375	2441314.88	1971 Dec 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y376	2441315.10	1971 Dec 29 1430:00	M-100	-	TERLS-397	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-Y377	2441315.12	1971 Dec 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y01	2441320.04	1972 Jan 03 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y02	2441320.96	1972 Jan 04 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y03	2441321.58	1972 Jan 05 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y04	2441321.91	1972 Jan 05 0950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y05	2441322.11	1972 Jan 05 1433:00	M-100	-	TERLS-400	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y06	2441322.12	1972 Jan 05 1450:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y07	2441324.88	1972 Jan 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y08	2441325.83	1972 Jan 09 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y09	2441327.00	1972 Jan 10 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y10	2441327.83	1972 Jan 11 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y12	2441328.58	1972 Jan 12 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y13	2441328.88	1972 Jan 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y14	2441328.88	1972 Jan 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y15	2441328.88	1972 Jan 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y16	2441329.10	1972 Jan 12 1430:00	M-100	-	TERLS-403	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y17	2441329.12	1972 Jan 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y18	2441329.12	1972 Jan 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y21	2441329.83	1972 Jan 13 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y22	2441331.83	1972 Jan 15 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y23	2441331.88	1972 Jan 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y24	2441331.88	1972 Jan 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y26	2441333.12	1972 Jan 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y27	2441333.92	1972 Jan 17 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y28	2441334.88	1972 Jan 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-W89	2441335.58	1972 Jan 19 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y29	2441335.92	1972 Jan 19 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y30	2441336.10	1972 Jan 19 1431:00	M-100	-	TERLS-407	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y31	2441336.11	1972 Jan 19 1440:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y32	2441336.92	1972 Jan 20 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y33	2441337.92	1972 Jan 21 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y34	2441338.88	1972 Jan 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y35	2441338.92	1972 Jan 22 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y37	2441342.58	1972 Jan 26 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y38	2441343.11	1972 Jan 26 1435:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y39	2441343.12	1972 Jan 26 1500:00	M-100	-	TERLS-408	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y40	2441343.20	1972 Jan 26 1655:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y42	2441345.88	1972 Jan 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y43	2441346.88	1972 Jan 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y45	2441349.58	1972 Feb 02 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y46	2441349.88	1972 Feb 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y47	2441350.10	1972 Feb 02 1430:00	M-100	-	TERLS-411	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y48	2441350.12	1972 Feb 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y49	2441350.12	1972 Feb 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y50	2441352.88	1972 Feb 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y51	2441354.00	1972 Feb 06 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y52	2441355.88	1972 Feb 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y53	2441355.96	1972 Feb 08 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y54	2441356.58	1972 Feb 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y55	2441356.88	1972 Feb 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y56	2441357.10	1972 Feb 09 1430:00	M-100	-	TERLS-413	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y60	2441359.88	1972 Feb 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y61	2441361.92	1972 Feb 14 1000:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y65	2441363.58	1972 Feb 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y66	2441363.88	1972 Feb 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y67	2441363.96	1972 Feb 16 1100:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y68	2441364.15	1972 Feb 16 1535:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y70	2441365.00	1972 Feb 17 1200:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y71	2441365.10	1972 Feb 17 1430:00	M-100	-	TERLS-417	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y72	2441365.12	1972 Feb 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y74	2441365.88	1972 Feb 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y77	2441366.88	1972 Feb 19 0900:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y78	2441368.42	1972 Feb 20 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y79	2441368.88	1972 Feb 21 0900:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y80	2441369.88	1972 Feb 22 0900:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y81	2441370.58	1972 Feb 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y82	2441370.88	1972 Feb 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y83	2441371.10	1972 Feb 23 1430:00	M-100	-	TERLS-418	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y84	2441371.12	1972 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y85	2441371.12	1972 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y88	2441373.88	1972 Feb 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y89	2441377.58	1972 Mar 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y307	2441377.65	1972 Mar 1 0330	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y90	2441377.88	1972 Mar 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y91	2441378.10	1972 Mar 01 1430:00	M-100	-	TERLS-419	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y92	2441378.12	1972 Mar 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y93	2441384.58	1972 Mar 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y94	2441385.12	1972 Mar 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y95	2441385.12	1972 Mar 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y96	2441385.19	1972 Mar 08 1630:00	M-100	-	TERLS-421	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y99	2441391.58	1972 Mar 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y100	2441391.88	1972 Mar 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y101	2441391.96	1972 Mar 15 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y102	2441392.00	1972 Mar 15 1200:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y103	2441392.11	1972 Mar 15 1434:00	M-100	-	TERLS-425	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y104	2441392.12	1972 Mar 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y105	2441394.21	1972 Mar 17 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y106	2441394.96	1972 Mar 18 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y107	2441396.00	1972 Mar 19 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y108	2441397.00	1972 Mar 20 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y109	2441398.04	1972 Mar 21 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y110	2441398.42	1972 Mar 21 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y111	2441398.88	1972 Mar 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y112	2441399.10	1972 Mar 22 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y113	2441399.10	1972 Mar 22 1430:00	M-100	-	TERLS-427	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y114	2441399.12	1972 Mar 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y117	2441399.96	1972 Mar 23 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y118	2441400.96	1972 Mar 24 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y119	2441402.00	1972 Mar 25 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y120	2441403.96	1972 Mar 27 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y121	2441405.58	1972 Mar 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y122	2441405.88	1972 Mar 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y123	2441406.10	1972 Mar 29 1430:00	M-100	-	TERLS-428	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y124	2441406.12	1972 Mar 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y125	2441406.12	1972 Mar 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y126	2441413.10	1972 Apr 05 1430:00	M-100	-	TERLS-429	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y127	2441420.10	1972 Apr 12 1430:00	M-100	-	TERLS-431	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y130	2441427.10	1972 Apr 19 1430:00	M-100	-	TERLS-432	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y133	2441434.10	1972 Apr 26 1430:00	M-100	-	TERLS-433	0.000	AN	SU	-	-	Aeron	WDCRF	KI14,143	-
1972-Y308	2441441.08	1972 May 3 1400	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y135	2441441.10	1972 May 03 1430:00	M-100	-	TERLS-434	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y309	2441444.09	1972 May 6 1410	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y137	2441448.19	1972 May 10 1627:00	M-100	-	TERLS-435	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y139	2441455.13	1972 May 17 1505:00	M-100	-	TERLS-436	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y310	2441455.24	1972 May 17 1750	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y142	2441469.11	1972 May 31 1437:00	M-100	-	TERLS-444	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y144	2441476.10	1972 Jun 07 1430:00	M-100	-	TERLS-445	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y145	2441483.10	1972 Jun 14 1430:00	M-100	-	TERLS-446	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y311	2441490.08	1972 Jun 21 1400	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y147	2441490.10	1972 Jun 21 1430:00	M-100	-	TERLS-447	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y312	2441490.09	1972 Jun 21 1405	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y148	2441497.11	1972 Jun 28 1440:00	M-100	-	TERLS-448	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y150	2441500.08	1972 Jul 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y151	2441500.33	1972 Jul 01 2000:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y152	2441502.33	1972 Jul 03 2000:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y153	2441503.88	1972 Jul 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y154	2441504.08	1972 Jul 05 1400:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y155	2441504.11	1972 Jul 05 1432:00	M-100	-	TERLS-449	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y156	2441505.21	1972 Jul 06 1700:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y157	2441506.21	1972 Jul 07 1700:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y158	2441507.21	1972 Jul 08 1700:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y159	2441508.21	1972 Jul 09 1700:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y160	2441509.08	1972 Jul 10 1400:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y161	2441511.08	1972 Jul 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y162	2441511.10	1972 Jul 12 1430:00	M-100	-	TERLS-451	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y164	2441512.08	1972 Jul 13 1400:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y165	2441514.12	1972 Jul 15 1500:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y166	2441515.33	1972 Jul 16 2000:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1972-Y167	2441517.88	1972 Jul 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y168	2441518.08	1972 Jul 19 1400:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y169	2441518.09	1972 Jul 19 1405:00	M-100	-	TERLS-452	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y170	2441521.08	1972 Jul 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y171	2441524.88	1972 Jul 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y172	2441525.08	1972 Jul 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y173	2441525.10	1972 Jul 26 1430:00	M-100	-	TERLS-453	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y176	2441525.33	1972 Jul 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y178	2441530.33	1972 Jul 31 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y179	2441531.33	1972 Aug 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y180	2441531.88	1972 Aug 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y181	2441532.08	1972 Aug 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y182	2441532.11	1972 Aug 02 1444:00	M-100	-	TERLS-454	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y184	2441532.25	1972 Aug 02 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y185	2441536.08	1972 Aug 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y186	2441538.42	1972 Aug 08 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y187	2441538.88	1972 Aug 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y188	2441539.08	1972 Aug 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y189	2441539.10	1972 Aug 09 1430:00	M-100	-	TERLS-462	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y190	2441539.33	1972 Aug 09 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y191	2441539.58	1972 Aug 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y192	2441542.33	1972 Aug 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y193	2441543.33	1972 Aug 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y194	2441544.33	1972 Aug 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y195	2441545.58	1972 Aug 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y196	2441545.88	1972 Aug 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y197	2441546.08	1972 Aug 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y198	2441546.10	1972 Aug 16 1430:00	M-100	-	TERLS-464	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y199	2441550.08	1972 Aug 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y200	2441552.54	1972 Aug 23 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y201	2441553.08	1972 Aug 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y203	2441554.10	1972 Aug 24 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y204	2441559.54	1972 Aug 30 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y205	2441560.08	1972 Aug 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y206	2441560.10	1972 Aug 30 1430:00	M-100	-	TERLS-473	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y207	2441566.42	1972 Sep 05 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y208	2441566.90	1972 Sep 06 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y209	2441567.08	1972 Sep 06 1400:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y210	2441567.10	1972 Sep 06 1430:00	M-100	-	TERLS-474	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y211	2441568.42	1972 Sep 07 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y212	2441568.88	1972 Sep 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y213	2441571.88	1972 Sep 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y214	2441573.46	1972 Sep 12 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y215	2441573.88	1972 Sep 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y216	2441574.08	1972 Sep 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y218	2441574.21	1972 Sep 13 1657:00	M-100	-	TERLS-475	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y219	2441575.42	1972 Sep 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y220	2441578.46	1972 Sep 17 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y221	2441580.50	1972 Sep 20 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y222	2441580.58	1972 Sep 20 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y223	2441580.88	1972 Sep 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y224	2441581.09	1972 Sep 20 1405:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y225	2441581.11	1972 Sep 20 1435:00	M-100	-	TERLS-484	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y228	2441587.44	1972 Sep 26 2240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y229	2441587.90	1972 Sep 27 0940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y230	2441588.08	1972 Sep 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y231	2441588.10	1972 Sep 27 1430:00	M-100	-	TERLS-485	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y232	2441594.42	1972 Oct 03 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y233	2441594.88	1972 Oct 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y234	2441595.10	1972 Oct 04 1430:00	M-100	-	TERLS-486	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y235	2441595.08	1972 Oct 04 1353:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y237	2441601.42	1972 Oct 10 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y238	2441601.88	1972 Oct 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y239	2441602.08	1972 Oct 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y240	2441602.10	1972 Oct 11 1430:00	M-100	-	TERLS-487	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y242	2441608.42	1972 Oct 17 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y243	2441608.88	1972 Oct 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y244	2441609.08	1972 Oct 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y245	2441609.13	1972 Oct 18 1506:00	M-100	-	TERLS-490	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y249	2441615.38	1972 Oct 24 2110:00	M-100	?	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y250	2441615.88	1972 Oct 25 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y251	2441616.10	1972 Oct 25 1430:00	M-100	-	TERLS-497	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y252	2441616.12	1972 Oct 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y253	2441616.21	1972 Oct 25 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI19,641	-
1972-Y254	2441623.11	1972 Nov 01 1444:00	M-100	-	TERLS-498	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y255	2441623.12	1972 Nov 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y258	2441630.89	1972 Nov 09 0916:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15,237	WDCRF	-
1972-Y259	2441631.10	1972 Nov 09 1430:00	M-100	-	TERLS-499	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y260	2441631.12	1972 Nov 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y261	2441636.54	1972 Nov 15 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y262	2441636.89	1972 Nov 15 0926:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15,237	WDCRF	-
1972-Y263	2441637.08	1972 Nov 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y264	2441637.10	1972 Nov 15 1430:00	M-100	-	TERLS-500	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y267	2441641.88	1972 Nov 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y268	2441643.88	1972 Nov 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y269	2441644.08	1972 Nov 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y270	2441644.10	1972 Nov 22 1430:00	M-100	-	TERLS-501	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y272	2441644.58	1972 Nov 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y273	2441648.88	1972 Nov 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y274	2441650.88	1972 Nov 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y275	2441651.00	1972 Nov 29 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y276	2441651.08	1972 Nov 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y277	2441651.08	1972 Nov 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y278	2441651.10	1972 Nov 29 1430:00	M-100	-	TERLS-502	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y279	2441651.17	1972 Nov 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y281	2441652.83	1972 Dec 01 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y284	2441657.88	1972 Dec 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y285	2441658.08	1972 Dec 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y286	2441658.11	1972 Dec 06 1433:00	M-100	-	TERLS-503	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y287	2441658.17	1972 Dec 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y288	2441664.88	1972 Dec 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y289	2441665.08	1972 Dec 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y290	2441665.08	1972 Dec 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y291	2441665.10	1972 Dec 13 1430:00	M-100	-	TERLS-504	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y292	2441671.58	1972 Dec 20 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y293	2441672.10	1972 Dec 20 1430:00	M-100	-	-	0.000	AN	SS	-	AN/ISRO/	Aeron	Nature252,683	WDCRF	-
1972-Y294	2441672.10	1972 Dec 20 1430:00	M-100	-	TERLS-509	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y296	2441673.62	1972 Dec 22 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y297	2441677.04	1972 Dec 25 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y298	2441678.62	1972 Dec 27 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y299	2441679.00	1972 Dec 27 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y300	2441679.08	1972 Dec 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y301	2441679.10	1972 Dec 27 1430:00	M-100	-	TERLS-510	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y304	2441680.00	1972 Dec 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y305	2441681.00	1972 Dec 29 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-Y306	2441682.00	1972 Dec 30 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y13	2441684.04	1973 Jan 01 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y14	2441685.04	1973 Jan 02 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y16	2441686.10	1973 Jan 03 1430:00	M-100	-	TERLS-511	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y17	2441686.12	1973 Jan 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y18	2441686.16	1973 Jan 03 1550:00	M-100	-	TERLS-512	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y19	2441687.04	1973 Jan 04 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y20	2441687.21	1973 Jan 04 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y21	2441688.12	1973 Jan 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y22	2441689.08	1973 Jan 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y23	2441689.12	1973 Jan 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y24	2441689.17	1973 Jan 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y25	2441692.89	1973 Jan 10 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y26	2441693.10	1973 Jan 10 1430:00	M-100	-	TERLS-517	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y27	2441693.12	1973 Jan 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-A01	2441694.17	1973 Jan 11 1610:00	M-100	-	TERLS-518	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y30	2441695.88	1973 Jan 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y32	2441699.88	1973 Jan 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y33	2441700.08	1973 Jan 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y34	2441700.10	1973 Jan 17 1430:00	M-100	-	TERLS-519	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y37	2441701.59	1973 Jan 19 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y38	2441706.74	1973 Jan 24 0540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y39	2441706.88	1973 Jan 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y40	2441707.00	1973 Jan 24 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y41	2441707.10	1973 Jan 24 1430:00	M-100	-	TERLS-521	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y42	2441707.12	1973 Jan 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y45	2441709.00	1973 Jan 26 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y46	2441709.04	1973 Jan 26 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y47	2441709.88	1973 Jan 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y48	2441711.00	1973 Jan 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y49	2441711.08	1973 Jan 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y50	2441712.62	1973 Jan 30 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y51	2441713.88	1973 Jan 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y52	2441714.04	1973 Jan 31 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y53	2441714.08	1973 Jan 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y54	2441714.11	1973 Jan 31 1437:00	M-100	-	TERLS-522	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y55	2441714.12	1973 Jan 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y59	2441715.33	1973 Feb 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y62	2441716.88	1973 Feb 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y63	2441717.12	1973 Feb 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y64	2441717.33	1973 Feb 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y65	2441718.29	1973 Feb 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y66	2441719.29	1973 Feb 05 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y67	2441720.88	1973 Feb 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y68	2441721.12	1973 Feb 07 1500:00	M-100	-	-	0.000	AN	SS	-	GMS/Tulinov	Aeron	WDCRF	SR16,441	-
1973-Y71	2441721.33	1973 Feb 07 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y72	2441722.11	1973 Feb 08 1435:00	M-100	-	TERLS-524	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y74	2441723.88	1973 Feb 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y75	2441723.92	1973 Feb 10 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y76	2441727.42	1973 Feb 13 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y77	2441727.88	1973 Feb 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y78	2441728.08	1973 Feb 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y82	2441730.88	1973 Feb 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y83	2441734.46	1973 Feb 20 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y84	2441734.90	1973 Feb 21 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y85	2441735.08	1973 Feb 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y86	2441735.08	1973 Feb 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y87	2441736.10	1973 Feb 22 1430:00	M-100	-	TERLS-529	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y88	2441737.12	1973 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y90	2441737.33	1973 Feb 23 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y91	2441737.42	1973 Feb 23 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y92	2441737.46	1973 Feb 23 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y93	2441737.88	1973 Feb 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y94	2441740.29	1973 Feb 26 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y95	2441740.33	1973 Feb 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y96	2441740.38	1973 Feb 26 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y526	2441740.83	1973 Feb 27 0800	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15,237	-	-
1973-Y97	2441741.12	1973 Feb 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y98	2441741.12	1973 Feb 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y99	2441741.54	1973 Feb 28 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y100	2441741.88	1973 Feb 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y101	2441742.00	1973 Feb 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-A10	2441742.10	1973 Feb 28 1430:00	M-100	-	TERLS-530	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y103	2441743.12	1973 Mar 01 1450:00	M-100	-	TERLS-531	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y104	2441743.29	1973 Mar 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y105	2441743.38	1973 Mar 01 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y106	2441743.42	1973 Mar 01 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y108	2441746.25	1973 Mar 04 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y109	2441746.33	1973 Mar 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y110	2441748.00	1973 Mar 06 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y111	2441748.42	1973 Mar 06 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y112	2441748.88	1973 Mar 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y113	2441749.00	1973 Mar 07 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y114	2441749.08	1973 Mar 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y115	2441749.10	1973 Mar 07 1430:00	M-100	-	TERLS-534	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y117	2441749.38	1973 Mar 07 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y118	2441749.42	1973 Mar 07 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y119	2441750.12	1973 Mar 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y120	2441751.04	1973 Mar 09 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y121	2441751.12	1973 Mar 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y123	2441752.08	1973 Mar 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y124	2441752.33	1973 Mar 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y125	2441753.33	1973 Mar 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y126	2441754.17	1973 Mar 12 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y127	2441754.33	1973 Mar 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y128	2441755.88	1973 Mar 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y129	2441756.00	1973 Mar 14 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y130	2441756.08	1973 Mar 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y131	2441756.12	1973 Mar 14 1450:00	M-100	-	TERLS-545	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y132	2441756.12	1973 Mar 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y135	2441756.58	1973 Mar 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y136	2441757.00	1973 Mar 15 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y137	2441761.00	1973 Mar 19 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y138	2441761.29	1973 Mar 19 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y139	2441761.88	1973 Mar 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y140	2441762.29	1973 Mar 20 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y141	2441762.33	1973 Mar 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y142	2441762.42	1973 Mar 20 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y143	2441762.88	1973 Mar 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y144	2441763.08	1973 Mar 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y145	2441763.10	1973 Mar 21 1430:00	M-100	-	TERLS-548	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y146	2441763.12	1973 Mar 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y148	2441763.29	1973 Mar 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y149	2441764.29	1973 Mar 22 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y151	2441765.88	1973 Mar 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y152	2441766.12	1973 Mar 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y153	2441766.29	1973 Mar 24 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y154	2441769.54	1973 Mar 28 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y155	2441769.88	1973 Mar 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y156	2441770.08	1973 Mar 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y157	2441770.10	1973 Mar 28 1430:00	M-100	-	TERLS-549	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y158	2441770.12	1973 Mar 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y159	2441772.12	1973 Mar 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y160	2441776.54	1973 Apr 04 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y161	2441776.88	1973 Apr 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y162	2441777.08	1973 Apr 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y163	2441777.10	1973 Apr 04 1430:00	M-100	-	TERLS-550	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y165	2441777.21	1973 Apr 04 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y166	2441778.00	1973 Apr 05 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y167	2441779.88	1973 Apr 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y168	2441782.54	1973 Apr 10 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y169	2441784.08	1973 Apr 11 1400:00	M-100	-	TERLS-551	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y170	2441784.12	1973 Apr 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y174	2441786.12	1973 Apr 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y175	2441790.65	1973 Apr 18 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y176	2441790.88	1973 Apr 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y177	2441791.08	1973 Apr 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y178	2441791.10	1973 Apr 18 1430:00	M-100	-	TERLS-553	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y179	2441791.12	1973 Apr 18 1500:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15.237	WDCRF	-
1973-Y183	2441793.12	1973 Apr 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y184	2441793.88	1973 Apr 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y185	2441797.58	1973 Apr 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y186	2441797.88	1973 Apr 25 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y187	2441798.08	1973 Apr 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y188	2441798.10	1973 Apr 25 1430:00	M-100	-	TERLS-554	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y189	2441798.12	1973 Apr 25 1456:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15.237	WDCRF	-
1973-Y191	2441800.12	1973 Apr 27 1458:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	SR15.237	WDCRF	-
1973-Y193	2441804.90	1973 May 02 0940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y194	2441805.10	1973 May 02 1430:00	M-100	-	TERLS-555	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y195	2441805.12	1973 May 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y196	2441805.58	1973 May 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y197	2441810.12	1973 May 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y198	2441811.88	1973 May 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y199	2441812.10	1973 May 09 1430:00	M-100	-	TERLS-556	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y200	2441812.12	1973 May 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y201	2441812.58	1973 May 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y204	2441817.10	1973 May 14 1430:00	M-100	-	TERLS-557	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y205	2441819.08	1973 May 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y206	2441819.10	1973 May 16 1430:00	M-100	-	TERLS-558	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y208	2441819.42	1973 May 16 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y209	2441821.10	1973 May 18 1430:00	M-100	-	TERLS-559	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y211	2441822.17	1973 May 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y212	2441824.10	1973 May 21 1430:00	M-100	-	TERLS-562	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y213	2441825.88	1973 May 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y214	2441826.08	1973 May 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y215	2441826.10	1973 May 23 1430:00	M-100	-	TERLS-566	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y218	2441828.10	1973 May 25 1430:00	M-100	-	TERLS-567	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y219	2441828.29	1973 May 25 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y220	2441829.08	1973 May 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y221	2441832.33	1973 May 29 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y222	2441832.54	1973 May 30 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y223	2441832.88	1973 May 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y224	2441833.08	1973 May 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y225	2441833.10	1973 May 30 1430:00	M-100	-	TERLS-568	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y227	2441835.33	1973 Jun 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y228	2441838.33	1973 Jun 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y229	2441839.79	1973 Jun 06 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y230	2441839.88	1973 Jun 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y232	2441840.08	1973 Jun 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y233	2441840.10	1973 Jun 06 1430:00	M-100	-	TERLS-570	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y234	2441840.33	1973 Jun 06 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y236	2441842.33	1973 Jun 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y239	2441843.08	1973 Jun 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y240	2441845.69	1973 Jun 12 0430:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y241	2441845.75	1973 Jun 12 0600:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y242	2441845.94	1973 Jun 12 1040:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y243	2441846.03	1973 Jun 12 1250:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y244	2441846.28	1973 Jun 12 1850:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y246	2441846.46	1973 Jun 12 2300:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Butko	Aeron	SR16,327	KI14,147	WDCRF
1973-Y249	2441847.08	1973 Jun 13 1400:00	M-100	-	Diurnal Variation	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	KI14,147	WDCRF
1973-Y248	2441847.12	1973 Jun 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y251	2441848.08	1973 Jun 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y252	2441848.10	1973 Jun 14 1430:00	M-100	-	TERLS-573	0.000	AN	SU	-	-	Aeron	WDCRF	SR16,111	-
1973-Y254	2441853.58	1973 Jun 20 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y255	2441853.88	1973 Jun 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y256	2441854.08	1973 Jun 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y257	2441854.10	1973 Jun 20 1430:00	M-100	-	TERLS-574	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y262	2441857.58	1973 Jun 24 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y263	2441858.33	1973 Jun 24 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y264	2441860.54	1973 Jun 27 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KJ18,807	-
1973-Y265	2441861.08	1973 Jun 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y266	2441861.10	1973 Jun 27 1430:00	M-100	-	TERLS-577	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y267	2441861.29	1973 Jun 27 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y269	2441864.33	1973 Jun 30 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y270	2441865.12	1973 Jul 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y271	2441866.29	1973 Jul 02 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y273	2441866.62	1973 Jul 03 0250:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y274	2441866.79	1973 Jul 03 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y275	2441867.88	1973 Jul 04 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y276	2441868.10	1973 Jul 04 1430:00	M-100	-	TERLS-579	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y277	2441868.29	1973 Jul 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y278	2441869.96	1973 Jul 06 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y280	2441871.04	1973 Jul 07 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y281	2441874.88	1973 Jul 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y283	2441875.08	1973 Jul 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y284	2441875.10	1973 Jul 11 1430:00	M-100	-	TERLS-580	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y288	2441878.17	1973 Jul 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y289	2441879.17	1973 Jul 15 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y291	2441881.12	1973 Jul 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y300	2441881.88	1973 Jul 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y301	2441882.08	1973 Jul 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y302	2441882.10	1973 Jul 18 1430:00	M-100	-	TERLS-583	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y303	2441882.21	1973 Jul 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y304	2441883.00	1973 Jul 19 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y307	2441885.08	1973 Jul 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y309	2441889.08	1973 Jul 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y310	2441889.10	1973 Jul 25 1430:00	M-100	-	TERLS-584	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y313	2441892.08	1973 Jul 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y314	2441895.60	1973 Aug 01 0230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y315	2441895.88	1973 Aug 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y316	2441896.08	1973 Aug 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y317	2441896.10	1973 Aug 01 1430:00	M-100	-	TERLS-587	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y323	2441902.88	1973 Aug 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y324	2441903.08	1973 Aug 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y325	2441903.10	1973 Aug 08 1430:00	M-100	-	TERLS-588	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y329	2441903.58	1973 Aug 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y330	2441905.71	1973 Aug 11 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y332	2441909.88	1973 Aug 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y333	2441910.08	1973 Aug 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y337	2441911.10	1973 Aug 16 1430:00	M-100	-	TERLS-589	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y338	2441913.67	1973 Aug 19 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y339	2441915.62	1973 Aug 21 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y340	2441916.88	1973 Aug 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y341	2441917.08	1973 Aug 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y342	2441917.10	1973 Aug 22 1430:00	M-100	-	TERLS-590	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y343	2441917.62	1973 Aug 23 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y344	2441918.88	1973 Aug 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y346	2441921.46	1973 Aug 26 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y347	2441921.52	1973 Aug 27 0030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y348	2441922.71	1973 Aug 28 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y349	2441923.54	1973 Aug 29 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y350	2441923.58	1973 Aug 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y351	2441923.88	1973 Aug 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y353	2441924.08	1973 Aug 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y354	2441924.10	1973 Aug 29 1430:00	M-100	-	TERLS-593	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y356	2441924.54	1973 Aug 30 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y357	2441925.46	1973 Aug 30 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y358	2441925.58	1973 Aug 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y359	2441925.73	1973 Aug 31 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y360	2441925.88	1973 Aug 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y364	2441926.42	1973 Aug 31 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y365	2441926.50	1973 Sep 01 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y366	2441927.50	1973 Sep 02 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y367	2441929.42	1973 Sep 03 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y368	2441929.46	1973 Sep 03 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y369	2441930.57	1973 Sep 05 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y370	2441930.89	1973 Sep 05 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y371	2441931.08	1973 Sep 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y372	2441931.10	1973 Sep 05 1430:00	M-100	-	TERLS-594	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y375	2441935.42	1973 Sep 09 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y376	2441935.46	1973 Sep 09 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y377	2441937.08	1973 Sep 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y378	2441937.90	1973 Sep 12 0940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y379	2441938.08	1973 Sep 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y380	2441938.10	1973 Sep 12 1430:00	M-100	-	TERLS-595	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y381	2441939.54	1973 Sep 14 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y382	2441940.33	1973 Sep 14 2000:00	M-100	-	Pre CIMO	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y383	2441944.21	1973 Sep 18 1700:00	M-100	-	Pre CIMO	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y384	2441944.54	1973 Sep 19 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y385	2441944.88	1973 Sep 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y386	2441945.08	1973 Sep 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y387	2441945.10	1973 Sep 19 1430:00	M-100	-	TERLS-596	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-W1613	2441946.11	1973 Sep 20 1440	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y521	2441946.68	1973 Sep 21 0420	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-W1614	2441947.14	1973 Sep 21 1520	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-W1615	2441947.67	1973 Sep 22 0410	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-W1616	2441950.22	1973 Sep 24 1720	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-W1617	2441950.52	1973 Sep 25 0030	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y394	2441951.08	1973 Sep 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-W1618	2441951.26	1973 Sep 25 1810	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-W1619	2441951.51	1973 Sep 26 0020	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y397	2441951.88	1973 Sep 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y522	2441952.09	1973 Sep 26 1410	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y523	2441953.09	1973 Sep 27 1410	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y399	2441953.10	1973 Sep 27 1430:00	M-100	-	TERLS-597	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y524	2441953.61	1973 Sep 28 0240	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y402	2441954.62	1973 Sep 29 0300:00	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y525	2441956.65	1973 Oct 1 0340	M-100	-	CIMO	0.000	AN	SS	-	GMS/	Meteo	SR15,143	-	-
1973-Y404	2441958.54	1973 Oct 03 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y405	2441959.05	1973 Oct 03 1316:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y406	2441959.10	1973 Oct 03 1430:00	M-100	-	TERLS-598	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y407	2441959.12	1973 Oct 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y419	2441961.88	1973 Oct 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y420	2441963.88	1973 Oct 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y421	2441965.54	1973 Oct 10 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y422	2441965.88	1973 Oct 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y423	2441966.10	1973 Oct 10 1430:00	M-100	-	TERLS-599	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y424	2441966.12	1973 Oct 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y426	2441969.88	1973 Oct 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y429	2441971.88	1973 Oct 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y431	2441972.88	1973 Oct 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y432	2441972.88	1973 Oct 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y433	2441973.10	1973 Oct 17 1430:00	M-100	-	TERLS-600	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y434	2441973.12	1973 Oct 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y437	2441973.88	1973 Oct 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y440	2441979.04	1973 Oct 23 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y441	2441980.10	1973 Oct 24 1430:00	M-100	-	TERLS-601	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y443	2441980.12	1973 Oct 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y448	2441986.00	1973 Oct 30 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y449	2441987.00	1973 Oct 31 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y450	2441987.10	1973 Oct 31 1430:00	M-100	-	TERLS-602	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y451	2441987.12	1973 Oct 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y452	2441987.46	1973 Oct 31 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y454	2441987.54	1973 Nov 01 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y456	2441988.92	1973 Nov 02 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y457	2441993.11	1973 Nov 06 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y458	2441993.12	1973 Nov 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y459	2441994.08	1973 Nov 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y460	2441994.10	1973 Nov 07 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y465	2441998.00	1973 Nov 11 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y466	2441999.88	1973 Nov 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y467	2442000.88	1973 Nov 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y468	2442001.10	1973 Nov 14 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y469	2442001.12	1973 Nov 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y471	2442002.88	1973 Nov 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y472	2442004.10	1973 Nov 17 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y473	2442004.92	1973 Nov 18 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y474	2442007.88	1973 Nov 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y475	2442008.12	1973 Nov 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y476	2442008.14	1973 Nov 21 1515:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y479	2442010.88	1973 Nov 24 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y480	2442011.10	1973 Nov 24 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y481	2442012.10	1973 Nov 25 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y482	2442013.88	1973 Nov 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y483	2442014.30	1973 Nov 27 1910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y484	2442015.11	1973 Nov 28 1438:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y485	2442015.12	1973 Nov 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y486	2442015.43	1973 Nov 28 2215:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y488	2442018.10	1973 Dec 01 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y489	2442020.56	1973 Dec 04 0120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y490	2442020.88	1973 Dec 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y491	2442022.10	1973 Dec 05 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y492	2442022.12	1973 Dec 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y493	2442022.88	1973 Dec 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y494	2442023.25	1973 Dec 06 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y495	2442025.88	1973 Dec 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y496	2442027.56	1973 Dec 11 0120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y497	2442028.26	1973 Dec 11 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y498	2442029.01	1973 Dec 12 1220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y499	2442029.10	1973 Dec 12 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y500	2442029.12	1973 Dec 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y504	2442032.10	1973 Dec 15 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y505	2442034.04	1973 Dec 17 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y506	2442034.56	1973 Dec 18 0120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y507	2442035.92	1973 Dec 19 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y508	2442036.04	1973 Dec 19 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y509	2442036.10	1973 Dec 19 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y510	2442036.12	1973 Dec 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y512	2442040.04	1973 Dec 23 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y513	2442041.04	1973 Dec 24 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y514	2442041.56	1973 Dec 25 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y515	2442042.04	1973 Dec 25 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y516	2442042.42	1973 Dec 25 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y517	2442043.10	1973 Dec 26 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1973-Y518	2442043.12	1973 Dec 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y01	2442049.88	1974 Jan 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y02	2442050.08	1974 Jan 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y03	2442050.10	1974 Jan 02 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y04	2442050.42	1974 Jan 02 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y06	2442052.92	1974 Jan 05 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y07	2442056.42	1974 Jan 08 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y08	2442056.88	1974 Jan 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y09	2442057.08	1974 Jan 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y10	2442057.10	1974 Jan 09 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y13	2442059.88	1974 Jan 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y14	2442063.42	1974 Jan 15 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y15	2442063.88	1974 Jan 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y17	2442064.12	1974 Jan 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y19	2442064.25	1974 Jan 16 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y22	2442065.88	1974 Jan 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y23	2442066.88	1974 Jan 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y24	2442068.88	1974 Jan 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y25	2442070.88	1974 Jan 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y26	2442070.88	1974 Jan 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y27	2442071.10	1974 Jan 23 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y28	2442071.12	1974 Jan 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y31	2442074.08	1974 Jan 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y32	2442074.08	1974 Jan 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y33	2442075.92	1974 Jan 28 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y34	2442077.21	1974 Jan 29 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y35	2442077.88	1974 Jan 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y36	2442077.88	1974 Jan 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y37	2442078.10	1974 Jan 30 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y38	2442078.12	1974 Jan 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y40	2442079.88	1974 Feb 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y41	2442079.96	1974 Feb 01 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y42	2442082.21	1974 Feb 03 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y43	2442084.42	1974 Feb 05 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y44	2442084.88	1974 Feb 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y45	2442085.10	1974 Feb 06 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y46	2442085.25	1974 Feb 06 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y47	2442085.88	1974 Feb 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y49	2442086.88	1974 Feb 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y50	2442086.88	1974 Feb 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y51	2442087.88	1974 Feb 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y52	2442088.29	1974 Feb 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y53	2442089.88	1974 Feb 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y54	2442090.12	1974 Feb 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y55	2442090.19	1974 Feb 11 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y56	2442090.29	1974 Feb 11 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y57	2442091.88	1974 Feb 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y58	2442092.08	1974 Feb 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y59	2442092.08	1974 Feb 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y60	2442092.10	1974 Feb 13 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y61	2442092.29	1974 Feb 13 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y62	2442093.29	1974 Feb 14 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y63	2442094.00	1974 Feb 15 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y64	2442094.25	1974 Feb 15 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W216	2442096.29	1974 Feb 17 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y66	2442097.12	1974 Feb 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y67	2442097.12	1974 Feb 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y68	2442098.42	1974 Feb 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y69	2442098.88	1974 Feb 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y70	2442099.08	1974 Feb 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y71	2442099.10	1974 Feb 20 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y72	2442099.12	1974 Feb 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y73	2442099.29	1974 Feb 20 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y74	2442100.88	1974 Feb 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y75	2442102.17	1974 Feb 23 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y76	2442102.88	1974 Feb 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-Y77	2442105.33	1974 Feb 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y78	2442105.42	1974 Feb 26 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y79	2442105.92	1974 Feb 27 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y80	2442106.08	1974 Feb 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y81	2442106.12	1974 Feb 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y82	2442106.17	1974 Feb 27 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y85	2442107.21	1974 Feb 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y86	2442108.25	1974 Mar 01 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y88	2442108.88	1974 Mar 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y89	2442109.12	1974 Mar 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y90	2442111.08	1974 Mar 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y91	2442111.29	1974 Mar 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y92	2442111.58	1974 Mar 05 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y93	2442112.08	1974 Mar 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y95	2442112.42	1974 Mar 05 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y96	2442112.58	1974 Mar 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y97	2442112.88	1974 Mar 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y98	2442113.12	1974 Mar 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y99	2442113.12	1974 Mar 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y101	2442113.88	1974 Mar 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y102	2442117.38	1974 Mar 10 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y103	2442120.12	1974 Mar 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y104	2442120.12	1974 Mar 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y105	2442120.12	1974 Mar 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y106	2442120.15	1974 Mar 13 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y110	2442121.42	1974 Mar 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y111	2442124.42	1974 Mar 17 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y112	2442126.83	1974 Mar 20 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y113	2442127.12	1974 Mar 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y114	2442127.12	1974 Mar 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y115	2442127.12	1974 Mar 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y117	2442127.38	1974 Mar 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y119	2442127.46	1974 Mar 20 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y120	2442128.88	1974 Mar 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y122	2442129.12	1974 Mar 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y123	2442130.21	1974 Mar 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y124	2442130.38	1974 Mar 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y125	2442130.38	1974 Mar 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y126	2442130.83	1974 Mar 24 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y127	2442131.12	1974 Mar 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y129	2442133.46	1974 Mar 26 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y130	2442133.88	1974 Mar 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y131	2442133.96	1974 Mar 27 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y132	2442134.00	1974 Mar 27 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y133	2442134.08	1974 Mar 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y134	2442134.12	1974 Mar 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y135	2442134.12	1974 Mar 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y137	2442137.92	1974 Mar 31 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y138	2442137.92	1974 Mar 31 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y139	2442140.42	1974 Apr 02 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y140	2442140.88	1974 Apr 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y141	2442141.12	1974 Apr 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y142	2442141.12	1974 Apr 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y143	2442141.12	1974 Apr 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y144	2442141.17	1974 Apr 03 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y146	2442142.33	1974 Apr 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y147	2442142.50	1974 Apr 05 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y148	2442142.88	1974 Apr 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y149	2442147.33	1974 Apr 09 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y150	2442147.42	1974 Apr 09 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y151	2442147.50	1974 Apr 10 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y152	2442147.88	1974 Apr 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y153	2442148.12	1974 Apr 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y154	2442148.12	1974 Apr 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y155	2442148.21	1974 Apr 10 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y156	2442149.50	1974 Apr 12 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y157	2442149.88	1974 Apr 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y159	2442154.54	1974 Apr 17 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y160	2442154.88	1974 Apr 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y161	2442155.08	1974 Apr 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y162	2442155.12	1974 Apr 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y163	2442155.10	1974 Apr 17 1430	M-100	-	-	0.000	AN	SS	-	VSSC/Naranayan	Aeron	SR16,111	WDCRF	-
1974-Y164	2442155.27	1974 Apr 17 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y166	2442157.12	1974 Apr 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y167	2442158.17	1974 Apr 20 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y168	2442159.12	1974 Apr 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y173	2442161.42	1974 Apr 23 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y174	2442161.90	1974 Apr 24 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y175	2442162.12	1974 Apr 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y176	2442162.17	1974 Apr 24 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y177	2442162.17	1974 Apr 24 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y179	2442163.42	1974 Apr 25 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y180	2442168.08	1974 Apr 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y181	2442168.12	1974 Apr 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y182	2442168.12	1974 Apr 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y183	2442168.25	1974 Apr 30 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-Y184	2442168.42	1974 Apr 30 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y185	2442169.12	1974 May 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y186	2442172.92	1974 May 05 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y187	2442175.44	1974 May 07 2240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y188	2442176.04	1974 May 08 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y189	2442176.12	1974 May 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y190	2442176.12	1974 May 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y191	2442177.04	1974 May 09 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y193	2442182.42	1974 May 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y194	2442182.82	1974 May 15 0745:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y195	2442182.89	1974 May 15 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W664	2442183.12	1974 May 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y197	2442184.12	1974 May 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	SR16,111	-
1974-Y198	2442185.78	1974 May 18 0640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y199	2442189.42	1974 May 21 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y200	2442189.78	1974 May 22 0640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y201	2442189.88	1974 May 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y202	2442190.12	1974 May 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y203	2442190.12	1974 May 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	SR16,111	-
1974-Y205	2442192.71	1974 May 25 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y206	2442194.67	1974 May 27 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y208	2442196.42	1974 May 28 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y209	2442196.88	1974 May 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y210	2442197.12	1974 May 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y211	2442197.12	1974 May 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y388	2442198.50	1974 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1974-Y212	2442203.51	1974 Jun 05 0010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y213	2442203.88	1974 Jun 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y215	2442210.88	1974 Jun 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y216	2442211.12	1974 Jun 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y217	2442211.12	1974 Jun 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y221	2442217.42	1974 Jun 18 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W803	2442217.88	1974 Jun 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y222	2442218.12	1974 Jun 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y223	2442220.12	1974 Jun 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-S537	2442220.52	1974 Jun 22 0030	M-100	-	-	0.000	AN	SU	-	-	Aeron	KI13,940	-	-
1974-Y224	2442224.88	1974 Jun 26 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y225	2442225.12	1974 Jun 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y229	2442231.88	1974 Jul 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y230	2442232.12	1974 Jul 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y232	2442238.89	1974 Jul 10 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y233	2442239.12	1974 Jul 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y237	2442245.88	1974 Jul 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y238	2442246.12	1974 Jul 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y241	2442252.88	1974 Jul 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y242	2442253.12	1974 Jul 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y245	2442259.88	1974 Jul 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y246	2442260.12	1974 Jul 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y250	2442266.88	1974 Aug 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y251	2442267.12	1974 Aug 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y254	2442273.88	1974 Aug 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y255	2442274.12	1974 Aug 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y257	2442274.29	1974 Aug 14 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y258	2442276.12	1974 Aug 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y259	2442278.31	1974 Aug 18 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y260	2442280.27	1974 Aug 20 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y262	2442280.42	1974 Aug 20 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y263	2442280.99	1974 Aug 21 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y265	2442282.81	1974 Aug 23 0720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y266	2442283.12	1974 Aug 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y267	2442283.29	1974 Aug 23 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y268	2442284.31	1974 Aug 24 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y269	2442285.88	1974 Aug 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y270	2442286.07	1974 Aug 26 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y271	2442287.46	1974 Aug 27 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y272	2442287.88	1974 Aug 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y273	2442288.12	1974 Aug 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y276	2442289.88	1974 Aug 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y277	2442292.90	1974 Sep 02 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y278	2442294.31	1974 Sep 03 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y279	2442294.42	1974 Sep 03 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y280	2442294.88	1974 Sep 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y281	2442295.08	1974 Sep 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y284	2442296.32	1974 Sep 05 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W1155	2442301.32	1974 Sep 10 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y286	2442301.42	1974 Sep 10 2200:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y287	2442301.88	1974 Sep 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y289	2442302.08	1974 Sep 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y291	2442304.33	1974 Sep 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y292	2442306.25	1974 Sep 15 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y293	2442307.29	1974 Sep 16 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y294	2442308.89	1974 Sep 18 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y295	2442309.04	1974 Sep 18 1300:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	SR17,131	-
1974-Y297	2442310.11	1974 Sep 19 1440:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y298	2442310.38	1974 Sep 19 2100:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y299	2442310.52	1974 Sep 20 0030:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-Y300	2442310.63	1974 Sep 20 0310:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y301	2442310.82	1974 Sep 20 0740:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y302	2442311.10	1974 Sep 20 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y303	2442311.21	1974 Sep 20 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y304	2442311.28	1974 Sep 20 1840:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y305	2442311.29	1974 Sep 20 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y306	2442311.69	1974 Sep 21 0440:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y307	2442311.90	1974 Sep 21 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y308	2442311.98	1974 Sep 21 1130:00	M-100	-	-	0.000	AN	SS	-	GMS/Shibaeva	Aeron	SR16,503	WDCRF	-
1974-Y309	2442315.42	1974 Sep 24 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y310	2442315.88	1974 Sep 25 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y311	2442316.12	1974 Sep 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y313	2442322.27	1974 Oct 01 1825:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y314	2442322.33	1974 Oct 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y315	2442322.47	1974 Oct 01 2320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y316	2442322.88	1974 Oct 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y317	2442323.12	1974 Oct 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W1288	2442329.32	1974 Oct 08 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-W1290	2442329.42	1974 Oct 08 2210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y323	2442329.47	1974 Oct 08 2320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y324	2442329.50	1974 Oct 09 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y325	2442329.88	1974 Oct 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y326	2442330.08	1974 Oct 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y327	2442331.31	1974 Oct 10 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y329	2442336.46	1974 Oct 15 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y330	2442337.00	1974 Oct 16 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y334	2442342.62	1974 Oct 22 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y335	2442343.42	1974 Oct 22 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y336	2442343.89	1974 Oct 23 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y337	2442344.08	1974 Oct 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y339	2442347.67	1974 Oct 27 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y340	2442350.67	1974 Oct 30 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y341	2442350.88	1974 Oct 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y342	2442351.12	1974 Oct 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y344	2442351.42	1974 Oct 30 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y345	2442353.79	1974 Nov 02 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y346	2442356.83	1974 Nov 05 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y347	2442357.25	1974 Nov 05 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y348	2442357.42	1974 Nov 05 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y349	2442357.92	1974 Nov 06 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y350	2442364.88	1974 Nov 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y351	2442365.08	1974 Nov 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y353	2442371.33	1974 Nov 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y354	2442371.75	1974 Nov 20 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y355	2442372.12	1974 Nov 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y357	2442377.94	1974 Nov 26 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y358	2442378.11	1974 Nov 26 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y359	2442378.89	1974 Nov 27 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y361	2442379.38	1974 Nov 27 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y363	2442379.44	1974 Nov 27 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y364	2442381.79	1974 Nov 30 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y365	2442384.17	1974 Dec 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y366	2442385.31	1974 Dec 03 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y367	2442386.00	1974 Dec 04 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y368	2442386.12	1974 Dec 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y371	2442392.54	1974 Dec 11 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y372	2442393.08	1974 Dec 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y373	2442393.10	1974 Dec 11 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y375	2442395.88	1974 Dec 14 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y376	2442399.58	1974 Dec 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y377	2442399.88	1974 Dec 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y378	2442400.08	1974 Dec 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y380	2442404.46	1974 Dec 22 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y381	2442406.28	1974 Dec 24 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y382	2442406.50	1974 Dec 25 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y383	2442406.57	1974 Dec 25 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y384	2442407.12	1974 Dec 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y386	2442409.50	1974 Dec 28 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-Y387	2442413.12	1974 Dec 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y01	2442415.06	1975 Jan 02 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y02	2442415.21	1975 Jan 02 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y05	2442417.06	1975 Jan 04 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y06	2442417.29	1975 Jan 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y07	2442418.58	1975 Jan 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y08	2442418.88	1975 Jan 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y09	2442420.42	1975 Jan 07 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y10	2442421.08	1975 Jan 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y11	2442421.17	1975 Jan 08 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y13	2442422.42	1975 Jan 09 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y14	2442422.88	1975 Jan 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y16	2442423.31	1975 Jan 10 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	SR17,261	-
1975-Y17	2442424.31	1975 Jan 11 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y18	2442425.33	1975 Jan 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y19	2442426.37	1975 Jan 13 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y20	2442427.33	1975 Jan 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y21	2442427.88	1975 Jan 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y22	2442427.90	1975 Jan 15 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y23	2442428.12	1975 Jan 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y25	2442428.33	1975 Jan 15 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y27	2442429.33	1975 Jan 16 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y28	2442429.88	1975 Jan 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y31	2442434.89	1975 Jan 22 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y32	2442435.12	1975 Jan 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y35	2442435.47	1975 Jan 22 2310:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y36	2442442.08	1975 Jan 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y38	2442442.25	1975 Jan 29 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y39	2442443.90	1975 Jan 31 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W130	2442447.40	1975 Feb 03 2140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W134	2442448.42	1975 Feb 04 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y42	2442449.25	1975 Feb 05 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W147	2442450.98	1975 Feb 07 1130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y45	2442455.67	1975 Feb 12 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y46	2442455.88	1975 Feb 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y47	2442457.88	1975 Feb 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y50	2442462.30	1975 Feb 18 1915:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y51	2442462.36	1975 Feb 18 2035:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y52	2442462.67	1975 Feb 19 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y53	2442462.88	1975 Feb 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y54	2442463.12	1975 Feb 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y55	2442465.17	1975 Feb 21 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y57	2442469.42	1975 Feb 25 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y58	2442469.88	1975 Feb 26 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y59	2442470.12	1975 Feb 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y61	2442471.88	1975 Feb 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y63	2442473.17	1975 Mar 01 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y64	2442475.17	1975 Mar 03 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y65	2442475.22	1975 Mar 03 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y66	2442476.42	1975 Mar 04 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y67	2442476.88	1975 Mar 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y68	2442477.33	1975 Mar 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y69	2442478.26	1975 Mar 06 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y70	2442479.25	1975 Mar 07 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y71	2442479.32	1975 Mar 07 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y72	2442481.19	1975 Mar 09 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y73	2442483.20	1975 Mar 11 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y74	2442483.42	1975 Mar 11 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y75	2442483.97	1975 Mar 12 1120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y76	2442484.12	1975 Mar 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y77	2442485.17	1975 Mar 13 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y78	2442486.26	1975 Mar 14 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y79	2442487.16	1975 Mar 15 1550:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y80	2442488.08	1975 Mar 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y81	2442490.21	1975 Mar 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y82	2442490.28	1975 Mar 18 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y83	2442490.42	1975 Mar 18 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y84	2442490.88	1975 Mar 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y85	2442491.12	1975 Mar 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y86	2442491.12	1975 Mar 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y87	2442491.21	1975 Mar 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y88	2442492.21	1975 Mar 20 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y89	2442494.21	1975 Mar 22 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y90	2442497.42	1975 Mar 25 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y91	2442497.96	1975 Mar 26 1105:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y92	2442498.12	1975 Mar 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y93	2442498.12	1975 Mar 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y94	2442504.88	1975 Apr 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y95	2442505.12	1975 Apr 02 1500:00	M-100	-	-	0.000	AN	SS	-	GMS/Perov	Aeron	WDCRF	SR17,261	-
1975-Y96	2442505.12	1975 Apr 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y99	2442505.71	1975 Apr 03 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y100	2442511.42	1975 Apr 08 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y101	2442511.96	1975 Apr 09 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y102	2442512.12	1975 Apr 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y103	2442512.12	1975 Apr 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y104	2442513.88	1975 Apr 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y106	2442515.12	1975 Apr 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y107	2442515.12	1975 Apr 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y108	2442517.12	1975 Apr 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y109	2442518.88	1975 Apr 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y110	2442519.12	1975 Apr 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y111	2442519.12	1975 Apr 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y113	2442521.02	1975 Apr 18 1230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y114	2442521.12	1975 Apr 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y115	2442525.57	1975 Apr 23 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y116	2442525.88	1975 Apr 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y117	2442526.12	1975 Apr 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y118	2442526.12	1975 Apr 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y120	2442527.83	1975 Apr 25 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y121	2442527.88	1975 Apr 25 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y122	2442528.12	1975 Apr 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y123	2442530.54	1975 Apr 28 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y124	2442530.88	1975 Apr 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y125	2442531.12	1975 Apr 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y126	2442533.12	1975 Apr 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y129	2442536.12	1975 May 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y130	2442538.17	1975 May 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y131	2442539.04	1975 May 06 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y132	2442539.58	1975 May 07 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y133	2442539.88	1975 May 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y134	2442540.00	1975 May 07 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y135	2442540.12	1975 May 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y136	2442540.12	1975 May 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y138	2442541.00	1975 May 08 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y139	2442541.06	1975 May 08 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y140	2442541.33	1975 May 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y141	2442541.92	1975 May 09 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y142	2442542.12	1975 May 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y144	2442543.83	1975 May 11 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y145	2442546.17	1975 May 13 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y146	2442546.88	1975 May 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y147	2442547.12	1975 May 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y148	2442547.12	1975 May 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y150	2442547.35	1975 May 14 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y152	2442550.27	1975 May 17 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W576	2442550.36	1975 May 17 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y153	2442552.12	1975 May 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y154	2442553.42	1975 May 20 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y155	2442553.88	1975 May 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y156	2442553.92	1975 May 21 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W590	2442554.12	1975 May 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y157	2442554.12	1975 May 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y158	2442555.17	1975 May 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y159	2442556.12	1975 May 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y163	2442556.94	1975 May 24 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y164	2442558.36	1975 May 25 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y165	2442559.12	1975 May 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y166	2442560.58	1975 May 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y167	2442560.88	1975 May 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y168	2442561.11	1975 May 28 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y169	2442561.12	1975 May 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y170	2442561.21	1975 May 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y174	2442562.26	1975 May 29 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y175	2442563.17	1975 May 30 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y176	2442567.46	1975 Jun 03 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y177	2442567.88	1975 Jun 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y178	2442568.12	1975 Jun 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y179	2442568.12	1975 Jun 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y180	2442568.12	1975 Jun 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y181	2442570.12	1975 Jun 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y182	2442570.31	1975 Jun 06 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y184	2442571.38	1975 Jun 07 2110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y185	2442572.21	1975 Jun 08 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y186	2442573.83	1975 Jun 10 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y187	2442574.46	1975 Jun 10 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y188	2442574.88	1975 Jun 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y189	2442575.12	1975 Jun 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y190	2442575.12	1975 Jun 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y191	2442575.12	1975 Jun 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y192	2442575.27	1975 Jun 11 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-W696	2442576.12	1975 Jun 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y193	2442576.25	1975 Jun 12 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y194	2442577.25	1975 Jun 13 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y195	2442578.25	1975 Jun 14 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y196	2442581.12	1975 Jun 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y197	2442581.29	1975 Jun 17 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y198	2442581.42	1975 Jun 17 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y199	2442581.49	1975 Jun 17 2340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y200	2442581.81	1975 Jun 18 0730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y201	2442581.88	1975 Jun 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y202	2442581.92	1975 Jun 18 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y203	2442582.12	1975 Jun 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y204	2442584.17	1975 Jun 20 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y207	2442585.12	1975 Jun 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y208	2442588.25	1975 Jun 24 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y209	2442588.92	1975 Jun 25 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y210	2442589.12	1975 Jun 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y211	2442589.12	1975 Jun 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y213	2442590.17	1975 Jun 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y214	2442590.21	1975 Jun 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y215	2442592.15	1975 Jun 28 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y216	2442595.88	1975 Jul 02 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y217	2442596.12	1975 Jul 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y219	2442597.12	1975 Jul 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y220	2442602.88	1975 Jul 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y221	2442603.12	1975 Jul 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y222	2442603.12	1975 Jul 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y226	2442609.88	1975 Jul 16 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y227	2442610.12	1975 Jul 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y228	2442610.12	1975 Jul 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y230	2442616.90	1975 Jul 23 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y231	2442617.12	1975 Jul 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y232	2442617.12	1975 Jul 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y235	2442623.96	1975 Jul 30 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y236	2442624.12	1975 Jul 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y237	2442624.12	1975 Jul 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y239	2442630.46	1975 Aug 05 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y240	2442630.88	1975 Aug 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y241	2442631.12	1975 Aug 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y243	2442631.21	1975 Aug 06 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y245	2442638.00	1975 Aug 13 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y246	2442638.12	1975 Aug 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y247	2442638.12	1975 Aug 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y249	2442638.31	1975 Aug 13 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y252	2442644.12	1975 Aug 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y253	2442644.53	1975 Aug 20 0040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y254	2442644.88	1975 Aug 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y255	2442645.12	1975 Aug 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y258	2442646.88	1975 Aug 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y259	2442651.85	1975 Aug 27 0830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y260	2442651.88	1975 Aug 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y261	2442652.12	1975 Aug 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y262	2442653.88	1975 Aug 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y263	2442657.71	1975 Sep 02 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y265	2442658.83	1975 Sep 03 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y266	2442658.88	1975 Sep 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y267	2442659.12	1975 Sep 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y268	2442659.22	1975 Sep 03 1710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y269	2442659.33	1975 Sep 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y271	2442665.44	1975 Sep 09 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y272	2442665.83	1975 Sep 10 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y273	2442665.88	1975 Sep 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y274	2442666.12	1975 Sep 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y275	2442666.67	1975 Sep 11 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y276	2442667.67	1975 Sep 12 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y279	2442672.48	1975 Sep 16 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y280	2442672.88	1975 Sep 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y281	2442673.12	1975 Sep 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y282	2442673.12	1975 Sep 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y284	2442674.67	1975 Sep 19 0400:00	M-100	-	-	0.000	AN	SU	-	TSAO/Brezgin	Aeron	WDCRF	MetIssled23,30	-
1975-Y286	2442677.83	1975 Sep 22 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y287	2442677.92	1975 Sep 22 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y288	2442679.43	1975 Sep 23 2220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y289	2442679.88	1975 Sep 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y290	2442680.12	1975 Sep 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y291	2442680.12	1975 Sep 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y292	2442686.30	1975 Sep 30 1910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y294	2442686.88	1975 Oct 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y295	2442687.12	1975 Oct 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y296	2442687.12	1975 Oct 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y297	2442687.23	1975 Oct 01 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y300	2442693.88	1975 Oct 08 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y301	2442694.12	1975 Oct 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y302	2442694.12	1975 Oct 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y303	2442694.31	1975 Oct 08 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y305	2442700.38	1975 Oct 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y306	2442700.88	1975 Oct 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y307	2442701.12	1975 Oct 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y308	2442701.12	1975 Oct 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y310	2442708.01	1975 Oct 22 1220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y312	2442708.12	1975 Oct 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y313	2442708.12	1975 Oct 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y314	2442708.21	1975 Oct 22 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y315	2442714.88	1975 Oct 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y316	2442715.12	1975 Oct 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y317	2442715.12	1975 Oct 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y318	2442715.21	1975 Oct 29 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y320	2442721.40	1975 Nov 04 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y321	2442721.88	1975 Nov 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y322	2442722.12	1975 Nov 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y323	2442722.12	1975 Nov 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y327	2442728.12	1975 Nov 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y328	2442728.88	1975 Nov 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y329	2442729.12	1975 Nov 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y330	2442729.21	1975 Nov 12 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y333	2442735.31	1975 Nov 18 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y334	2442735.40	1975 Nov 18 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y335	2442735.88	1975 Nov 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y336	2442736.12	1975 Nov 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y337	2442736.12	1975 Nov 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y340	2442738.21	1975 Nov 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y341	2442738.29	1975 Nov 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y342	2442742.92	1975 Nov 26 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y392	2442743.10	1975 Nov 26 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y343	2442743.12	1975 Nov 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y344	2442743.21	1975 Nov 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y346	2442745.12	1975 Nov 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y347	2442746.21	1975 Nov 29 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y348	2442749.88	1975 Dec 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y349	2442750.12	1975 Dec 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y350	2442750.12	1975 Dec 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y351	2442750.33	1975 Dec 03 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y353	2442752.73	1975 Dec 06 0534	M-100	-	-	0.000	AN	SU	-	PRL/Prakash	Aeron	WDCRF	-	-
1975-Y354	2442756.88	1975 Dec 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y355	2442757.12	1975 Dec 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y356	2442757.12	1975 Dec 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y357	2442757.17	1975 Dec 10 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y359	2442758.20	1975 Dec 11 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y365	2442763.88	1975 Dec 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y367	2442764.12	1975 Dec 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y368	2442764.17	1975 Dec 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y369	2442764.42	1975 Dec 17 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y371	2442764.46	1975 Dec 17 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y373	2442765.12	1975 Dec 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y374	2442766.36	1975 Dec 19 2035:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y375	2442766.42	1975 Dec 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y379	2442770.27	1975 Dec 23 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y380	2442770.38	1975 Dec 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y381	2442770.88	1975 Dec 24 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y382	2442771.12	1975 Dec 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y384	2442771.21	1975 Dec 24 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y385	2442774.47	1975 Dec 27 2315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y386	2442774.90	1975 Dec 28 0935:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y388	2442777.38	1975 Dec 30 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y389	2442777.75	1975 Dec 31 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y390	2442777.88	1975 Dec 31 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-Y391	2442778.12	1975 Dec 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y02	2442781.88	1976 Jan 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W04	2442783.12	1976 Jan 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y03	2442785.10	1976 Jan 07 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y04	2442785.12	1976 Jan 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y05	2442785.17	1976 Jan 07 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y06	2442785.21	1976 Jan 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y08	2442786.88	1976 Jan 09 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y09	2442787.10	1976 Jan 09 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y10	2442787.17	1976 Jan 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y12	2442788.21	1976 Jan 10 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y13	2442789.21	1976 Jan 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y14	2442789.88	1976 Jan 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y15	2442791.88	1976 Jan 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y16	2442792.10	1976 Jan 14 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y17	2442792.10	1976 Jan 14 1430:00	M-100B	-	-	0.000	AN	SU	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1976-Y18	2442792.21	1976 Jan 14 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y19	2442792.33	1976 Jan 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y22	2442794.25	1976 Jan 16 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y23	2442794.27	1976 Jan 16 1835:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y24	2442796.25	1976 Jan 18 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y25	2442797.17	1976 Jan 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y26	2442798.88	1976 Jan 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y27	2442799.10	1976 Jan 21 1430:00	M-100B	-	-	0.000	AN	SU	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1976-Y28	2442799.12	1976 Jan 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W98	2442799.21	1976 Jan 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y29	2442800.88	1976 Jan 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y30	2442802.17	1976 Jan 24 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y31	2442805.88	1976 Jan 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y32	2442806.08	1976 Jan 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y33	2442806.10	1976 Jan 28 1430:00	M-100B	-	-	0.000	AN	SU	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1976-Y34	2442806.12	1976 Jan 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y35	2442806.19	1976 Jan 28 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y36	2442807.17	1976 Jan 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y38	2442807.92	1976 Jan 30 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y40	2442809.17	1976 Jan 31 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y41	2442809.25	1976 Jan 31 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y42	2442810.21	1976 Feb 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y43	2442811.17	1976 Feb 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y44	2442811.25	1976 Feb 02 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y45	2442812.29	1976 Feb 03 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y46	2442812.88	1976 Feb 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y47	2442813.08	1976 Feb 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y48	2442813.10	1976 Feb 04 1430:00	M-100B	-	-	0.000	AN	SU	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1976-Y49	2442813.12	1976 Feb 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y50	2442813.15	1976 Feb 04 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y52	2442814.38	1976 Feb 05 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y53	2442814.44	1976 Feb 05 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W192	2442814.88	1976 Feb 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y55	2442815.17	1976 Feb 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y56	2442816.12	1976 Feb 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y57	2442816.21	1976 Feb 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y58	2442817.17	1976 Feb 08 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y59	2442818.12	1976 Feb 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y60	2442818.21	1976 Feb 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y61	2442819.94	1976 Feb 11 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y62	2442820.08	1976 Feb 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y63	2442820.10	1976 Feb 11 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y64	2442820.12	1976 Feb 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y65	2442820.12	1976 Feb 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y67	2442821.10	1976 Feb 12 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y68	2442821.88	1976 Feb 13 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y69	2442822.17	1976 Feb 13 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y71	2442823.17	1976 Feb 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y72	2442824.17	1976 Feb 15 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y73	2442825.12	1976 Feb 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y74	2442825.28	1976 Feb 16 1843:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y75	2442826.88	1976 Feb 18 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y76	2442827.08	1976 Feb 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y77	2442827.10	1976 Feb 18 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W252	2442827.12	1976 Feb 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y78	2442827.12	1976 Feb 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y80	2442827.21	1976 Feb 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y83	2442828.12	1976 Feb 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y84	2442828.12	1976 Feb 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y85	2442828.92	1976 Feb 20 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y86	2442829.12	1976 Feb 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y87	2442830.08	1976 Feb 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y88	2442830.12	1976 Feb 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y89	2442831.12	1976 Feb 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y90	2442831.33	1976 Feb 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y91	2442833.12	1976 Feb 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y92	2442833.38	1976 Feb 24 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y93	2442834.08	1976 Feb 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y94	2442834.12	1976 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y95	2442834.12	1976 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y96	2442834.17	1976 Feb 25 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y99	2442835.38	1976 Feb 26 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y101	2442838.12	1976 Feb 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y102	2442840.38	1976 Mar 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y103	2442841.10	1976 Mar 03 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y104	2442841.12	1976 Mar 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y105	2442841.12	1976 Mar 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y106	2442841.12	1976 Mar 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y109	2442842.38	1976 Mar 04 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y110	2442846.12	1976 Mar 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y111	2442847.38	1976 Mar 09 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y112	2442848.08	1976 Mar 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y113	2442848.10	1976 Mar 10 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y114	2442848.12	1976 Mar 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y115	2442848.12	1976 Mar 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W394	2442849.12	1976 Mar 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y116	2442849.38	1976 Mar 11 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y118	2442851.12	1976 Mar 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y119	2442852.12	1976 Mar 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y120	2442852.17	1976 Mar 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y121	2442853.12	1976 Mar 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y122	2442854.12	1976 Mar 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y123	2442854.38	1976 Mar 16 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y124	2442855.08	1976 Mar 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W418	2442855.10	1976 Mar 17 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y125	2442855.12	1976 Mar 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y126	2442855.12	1976 Mar 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y127	2442855.12	1976 Mar 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y129	2442861.31	1976 Mar 23 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y130	2442861.36	1976 Mar 23 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y131	2442861.38	1976 Mar 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y132	2442861.47	1976 Mar 23 2320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y133	2442862.12	1976 Mar 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y134	2442862.18	1976 Mar 24 1623:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y136	2442864.12	1976 Mar 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y138	2442864.17	1976 Mar 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y140	2442865.38	1976 Mar 27 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y141	2442866.17	1976 Mar 28 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y142	2442867.12	1976 Mar 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y143	2442868.38	1976 Mar 30 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y144	2442869.11	1976 Mar 31 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y145	2442869.12	1976 Mar 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y146	2442869.12	1976 Mar 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y148	2442869.30	1976 Mar 31 1910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y149	2442869.38	1976 Mar 31 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y151	2442871.46	1976 Apr 02 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y152	2442872.29	1976 Apr 03 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y153	2442875.38	1976 Apr 06 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y154	2442875.38	1976 Apr 06 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y155	2442876.10	1976 Apr 07 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y156	2442876.12	1976 Apr 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y157	2442876.12	1976 Apr 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y159	2442877.38	1976 Apr 08 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y160	2442878.21	1976 Apr 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y161	2442879.12	1976 Apr 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y162	2442879.17	1976 Apr 10 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y163	2442880.17	1976 Apr 11 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y164	2442881.12	1976 Apr 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y165	2442881.17	1976 Apr 12 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y166	2442882.21	1976 Apr 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y167	2442882.38	1976 Apr 13 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W555	2442882.48	1976 Apr 13 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y168	2442883.10	1976 Apr 14 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y169	2442883.12	1976 Apr 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y170	2442883.12	1976 Apr 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y173	2442884.38	1976 Apr 15 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y174	2442885.12	1976 Apr 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y176	2442889.38	1976 Apr 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y177	2442889.38	1976 Apr 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y178	2442890.10	1976 Apr 21 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y179	2442890.12	1976 Apr 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y180	2442890.12	1976 Apr 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y181	2442890.22	1976 Apr 21 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y184	2442891.38	1976 Apr 22 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y187	2442896.38	1976 Apr 27 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y188	2442896.38	1976 Apr 27 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y189	2442897.10	1976 Apr 28 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y191	2442897.12	1976 Apr 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y193	2442897.38	1976 Apr 28 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y194	2442897.97	1976 Apr 29 1120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y196	2442903.38	1976 May 04 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y197	2442903.38	1976 May 04 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y198	2442904.10	1976 May 05 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y199	2442904.12	1976 May 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y200	2442904.12	1976 May 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y203	2442905.38	1976 May 06 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y204	2442910.38	1976 May 11 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y205	2442910.38	1976 May 11 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y206	2442911.10	1976 May 12 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y207	2442911.12	1976 May 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y208	2442911.12	1976 May 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y210	2442917.38	1976 May 18 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W749	2442917.38	1976 May 18 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y211	2442917.88	1976 May 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W753	2442918.10	1976 May 19 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y212	2442918.12	1976 May 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y213	2442918.17	1976 May 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y214	2442918.21	1976 May 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y217	2442920.11	1976 May 21 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y218	2442920.15	1976 May 21 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y219	2442920.21	1976 May 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y221	2442923.10	1976 May 24 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y223	2442924.38	1976 May 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y224	2442924.38	1976 May 25 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y225	2442924.40	1976 May 25 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y226	2442924.55	1976 May 26 0110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI19,641	-
1976-Y227	2442925.10	1976 May 26 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y230	2442927.11	1976 May 28 1433:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y233	2442930.10	1976 May 31 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y234	2442931.38	1976 Jun 01 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y235	2442931.38	1976 Jun 01 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y236	2442932.11	1976 Jun 02 1438:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y237	2442932.12	1976 Jun 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y240	2442938.38	1976 Jun 08 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W851	2442938.38	1976 Jun 08 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y241	2442939.13	1976 Jun 09 1512:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y242	2442939.40	1976 Jun 09 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y245	2442945.38	1976 Jun 15 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y246	2442945.38	1976 Jun 15 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W877	2442946.10	1976 Jun 16 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W879	2442946.12	1976 Jun 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y250	2442952.25	1976 Jun 22 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y251	2442952.38	1976 Jun 22 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y252	2442952.88	1976 Jun 23 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W902	2442953.11	1976 Jun 23 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y253	2442953.17	1976 Jun 23 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y256	2442955.25	1976 Jun 25 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y257	2442955.38	1976 Jun 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y258	2442956.25	1976 Jun 26 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y259	2442958.21	1976 Jun 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y261	2442959.38	1976 Jun 29 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y262	2442959.42	1976 Jun 29 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y263	2442960.11	1976 Jun 30 1434:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y265	2442960.25	1976 Jun 30 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y266	2442961.21	1976 Jul 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y268	2442962.38	1976 Jul 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y269	2442966.38	1976 Jul 06 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y270	2442966.38	1976 Jul 06 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y271	2442967.12	1976 Jul 07 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y275	2442967.43	1976 Jul 07 2220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y276	2442967.56	1976 Jul 08 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y277	2442967.62	1976 Jul 08 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y278	2442969.38	1976 Jul 09 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y279	2442973.38	1976 Jul 13 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y280	2442973.38	1976 Jul 13 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y281	2442974.12	1976 Jul 14 1450:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y283	2442974.25	1976 Jul 14 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y286	2442976.46	1976 Jul 16 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y288	2442977.21	1976 Jul 17 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y289	2442979.21	1976 Jul 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y292	2442980.17	1976 Jul 20 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y293	2442980.25	1976 Jul 20 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y294	2442980.38	1976 Jul 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y295	2442980.38	1976 Jul 20 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y296	2442981.11	1976 Jul 21 1445:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y297	2442981.21	1976 Jul 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y300	2442983.12	1976 Jul 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y301	2442983.38	1976 Jul 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y302	2442986.17	1976 Jul 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y304	2442987.38	1976 Jul 27 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1030	2442987.42	1976 Jul 27 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y305	2442988.10	1976 Jul 28 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y306	2442988.12	1976 Jul 28 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y308	2442988.30	1976 Jul 28 1910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y309	2442988.38	1976 Jul 28 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y310	2442988.51	1976 Jul 29 0020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y311	2442988.63	1976 Jul 29 0305:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y312	2442988.76	1976 Jul 29 0615:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y313	2442988.88	1976 Jul 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y314	2442988.99	1976 Jul 29 1145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y315	2442989.15	1976 Jul 29 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y316	2442989.17	1976 Jul 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y317	2442989.24	1976 Jul 29 1740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y318	2442989.38	1976 Jul 29 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y320	2442989.51	1976 Jul 30 0020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y321	2442989.61	1976 Jul 30 0240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y322	2442989.88	1976 Jul 30 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y323	2442989.99	1976 Jul 30 1150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y324	2442990.12	1976 Jul 30 1459:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y325	2442990.18	1976 Jul 30 1615:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y326	2442990.21	1976 Jul 30 1706:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y327	2442990.38	1976 Jul 30 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1061	2442991.17	1976 Jul 31 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y328	2442992.17	1976 Aug 01 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y329	2442992.21	1976 Aug 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y330	2442994.25	1976 Aug 03 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y331	2442994.38	1976 Aug 03 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y332	2442994.42	1976 Aug 03 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y333	2442995.11	1976 Aug 04 1433:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y334	2442995.12	1976 Aug 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y339	2442996.17	1976 Aug 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y341	2442997.17	1976 Aug 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y342	2442997.38	1976 Aug 06 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y343	2442999.17	1976 Aug 08 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y344	2442999.21	1976 Aug 08 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y345	2443001.38	1976 Aug 10 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y346	2443001.38	1976 Aug 10 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y347	2443002.10	1976 Aug 11 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y349	2443002.21	1976 Aug 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y351	2443004.38	1976 Aug 13 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y352	2443008.38	1976 Aug 17 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y353	2443008.38	1976 Aug 17 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y354	2443009.10	1976 Aug 18 1427:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y355	2443009.10	1976 Aug 18 1430:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y357	2443009.25	1976 Aug 18 1805:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y358	2443009.35	1976 Aug 18 2030:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y359	2443009.38	1976 Aug 18 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y360	2443009.47	1976 Aug 18 2315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y361	2443009.58	1976 Aug 19 0148:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y362	2443009.60	1976 Aug 19 0230:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y363	2443009.76	1976 Aug 19 0610:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y364	2443009.87	1976 Aug 19 0847:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y365	2443009.88	1976 Aug 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y366	2443009.99	1976 Aug 19 1146:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y367	2443010.08	1976 Aug 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1161	2443010.10	1976 Aug 19 1430:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y368	2443010.16	1976 Aug 19 1548:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y369	2443010.20	1976 Aug 19 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y370	2443010.23	1976 Aug 19 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y371	2443010.35	1976 Aug 19 2030:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y372	2443010.38	1976 Aug 19 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y373	2443010.42	1976 Aug 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y374	2443010.47	1976 Aug 19 2315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y375	2443010.60	1976 Aug 20 0230:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y376	2443010.65	1976 Aug 20 0333:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y377	2443010.76	1976 Aug 20 0612:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y378	2443010.85	1976 Aug 20 0825:00	M-100B	-	-	0.000	AN	SU	-	VSSC/	Aeron	WDCRF	IJRSP6,274	-
1976-Y379	2443010.88	1976 Aug 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y380	2443010.99	1976 Aug 20 1144:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y381	2443011.11	1976 Aug 20 1442:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y382	2443011.24	1976 Aug 20 1742:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y383	2443011.38	1976 Aug 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y385	2443012.24	1976 Aug 21 1750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y386	2443013.21	1976 Aug 22 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y387	2443014.21	1976 Aug 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y388	2443015.17	1976 Aug 24 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y389	2443015.21	1976 Aug 24 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y390	2443015.38	1976 Aug 24 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y391	2443015.38	1976 Aug 24 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y392	2443016.10	1976 Aug 25 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y393	2443016.17	1976 Aug 25 1610:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y394	2443016.21	1976 Aug 25 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y396	2443017.17	1976 Aug 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y397	2443017.21	1976 Aug 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y398	2443017.38	1976 Aug 26 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y399	2443018.21	1976 Aug 27 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y400	2443019.21	1976 Aug 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y401	2443019.25	1976 Aug 28 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y402	2443021.17	1976 Aug 30 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y403	2443021.21	1976 Aug 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y404	2443022.38	1976 Aug 31 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y405	2443022.38	1976 Aug 31 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y406	2443023.10	1976 Sep 01 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y407	2443023.12	1976 Sep 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y410	2443024.38	1976 Sep 02 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y412	2443029.38	1976 Sep 07 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y415	2443030.23	1976 Sep 08 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y416	2443031.10	1976 Sep 09 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y417	2443031.38	1976 Sep 09 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y418	2443036.38	1976 Sep 14 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y419	2443036.42	1976 Sep 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y420	2443037.10	1976 Sep 15 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y421	2443037.12	1976 Sep 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y424	2443037.26	1976 Sep 15 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y426	2443038.60	1976 Sep 17 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y427	2443043.38	1976 Sep 21 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y428	2443043.38	1976 Sep 21 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y429	2443044.12	1976 Sep 22 1454:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y430	2443044.19	1976 Sep 22 1640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y433	2443045.10	1976 Sep 23 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y434	2443046.16	1976 Sep 24 1550:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y435	2443046.22	1976 Sep 24 1710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y436	2443046.31	1976 Sep 24 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y437	2443046.37	1976 Sep 24 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y438	2443046.80	1976 Sep 25 0715:00	M-100B	-	-	0.000	AN	SU	-	-	Solar UV	WDCRF	-	-
1976-S418	2443047.81	1976 Sep 26 0730	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	-	-
1976-Y440	2443050.38	1976 Sep 28 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y441	2443050.38	1976 Sep 28 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y442	2443051.10	1976 Sep 29 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1391	2443051.21	1976 Sep 29 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y444	2443052.40	1976 Sep 30 2140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y445	2443052.56	1976 Oct 01 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y446	2443052.62	1976 Oct 01 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y447	2443057.38	1976 Oct 05 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y448	2443057.42	1976 Oct 05 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1430	2443058.10	1976 Oct 06 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1431	2443058.12	1976 Oct 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y449	2443058.19	1976 Oct 06 1640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y451	2443058.27	1976 Oct 06 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y453	2443060.20	1976 Oct 08 1652:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y454	2443064.38	1976 Oct 12 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y455	2443064.38	1976 Oct 12 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y456	2443064.92	1976 Oct 13 1005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y457	2443065.10	1976 Oct 13 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y460	2443065.96	1976 Oct 14 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y461	2443067.18	1976 Oct 15 1615:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y462	2443071.38	1976 Oct 19 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y463	2443071.38	1976 Oct 19 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y464	2443071.95	1976 Oct 20 1055:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1492	2443071.96	1976 Oct 20 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y465	2443072.09	1976 Oct 20 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y466	2443072.10	1976 Oct 20 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y469	2443073.99	1976 Oct 22 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1516	2443076.04	1976 Oct 24 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y470	2443078.06	1976 Oct 26 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y471	2443078.38	1976 Oct 26 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y472	2443078.38	1976 Oct 26 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y473	2443078.92	1976 Oct 27 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y474	2443078.97	1976 Oct 27 1110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y475	2443079.00	1976 Oct 27 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y477	2443079.10	1976 Oct 27 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1538	2443080.00	1976 Oct 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y481	2443082.08	1976 Oct 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y482	2443085.04	1976 Nov 02 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y483	2443085.38	1976 Nov 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y484	2443085.38	1976 Nov 02 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y485	2443085.91	1976 Nov 03 0950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y486	2443086.10	1976 Nov 03 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y489	2443088.96	1976 Nov 06 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y490	2443092.38	1976 Nov 09 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y491	2443092.38	1976 Nov 09 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y492	2443092.54	1976 Nov 10 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y493	2443093.12	1976 Nov 10 1500:00	M-100A	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y494	2443093.16	1976 Nov 10 1545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y498	2443098.96	1976 Nov 16 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y499	2443099.38	1976 Nov 16 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y500	2443099.38	1976 Nov 16 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y501	2443100.10	1976 Nov 17 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y502	2443100.21	1976 Nov 17 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y506	2443101.04	1976 Nov 18 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y507	2443105.04	1976 Nov 22 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y508	2443106.38	1976 Nov 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y509	2443106.38	1976 Nov 23 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y510	2443106.44	1976 Nov 23 2231:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y511	2443107.10	1976 Nov 24 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y512	2443107.15	1976 Nov 24 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1702	2443107.96	1976 Nov 25 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1705	2443108.44	1976 Nov 25 2231:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y516	2443109.12	1976 Nov 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y517	2443110.08	1976 Nov 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y518	2443113.38	1976 Nov 30 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y519	2443113.38	1976 Nov 30 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y520	2443114.10	1976 Dec 01 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1735	2443114.22	1976 Dec 01 1710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y522	2443114.25	1976 Dec 01 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y524	2443114.29	1976 Dec 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1739	2443115.21	1976 Dec 02 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y525	2443116.21	1976 Dec 03 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y526	2443118.17	1976 Dec 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y527	2443119.04	1976 Dec 06 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y528	2443119.85	1976 Dec 07 0830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y529	2443120.38	1976 Dec 07 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y530	2443120.38	1976 Dec 07 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-S444	2443120.50	1976 Dec 8 0000:00	M-100	?	-	0.000	AN	SS	-	AN/Kikhtenko	Ionos	KI16,626	-	-
1976-Y531	2443120.99	1976 Dec 08 1150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y532	2443121.10	1976 Dec 08 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y534	2443121.22	1976 Dec 08 1710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y536	2443122.00	1976 Dec 09 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y537	2443123.11	1976 Dec 10 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y540	2443123.31	1976 Dec 10 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y542	2443124.96	1976 Dec 12 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y543	2443125.00	1976 Dec 12 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y544	2443125.96	1976 Dec 13 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1799	2443126.10	1976 Dec 13 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y545	2443126.23	1976 Dec 13 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y546	2443127.38	1976 Dec 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y547	2443127.38	1976 Dec 14 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y548	2443128.08	1976 Dec 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y550	2443128.21	1976 Dec 15 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y552	2443129.10	1976 Dec 16 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y554	2443129.29	1976 Dec 16 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y555	2443129.82	1976 Dec 17 0736:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y556	2443129.88	1976 Dec 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y557	2443130.17	1976 Dec 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y558	2443130.21	1976 Dec 17 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y559	2443131.17	1976 Dec 18 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y560	2443133.12	1976 Dec 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y561	2443134.38	1976 Dec 21 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y562	2443134.38	1976 Dec 21 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y563	2443134.85	1976 Dec 22 0830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y564	2443134.90	1976 Dec 22 0935:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y565	2443135.10	1976 Dec 22 1430:00	M-100A	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-S441	2443135.50	1976 Dec 23	M-100	-	-	0.000	AN	SS	-	-	Aeron	KI19,641	-	-
1976-S442	2443135.50	1976 Dec 23	M-100	-	-	0.000	AN	SS	-	-	Aeron	KI19,641	-	-
1976-S443	2443135.50	1976 Dec 23	M-100	-	-	0.000	AN	SS	-	-	Aeron	KI19,641	-	-
1976-Y569	2443136.17	1976 Dec 23 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y570	2443136.25	1976 Dec 23 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y571	2443138.17	1976 Dec 25 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y572	2443138.17	1976 Dec 25 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y573	2443138.21	1976 Dec 25 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y574	2443139.17	1976 Dec 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y575	2443139.21	1976 Dec 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y576	2443140.17	1976 Dec 27 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y577	2443140.25	1976 Dec 27 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y578	2443141.04	1976 Dec 28 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y579	2443141.08	1976 Dec 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y580	2443141.38	1976 Dec 28 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y581	2443141.54	1976 Dec 29 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-W1881	2443141.88	1976 Dec 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y582	2443142.10	1976 Dec 29 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y585	2443142.96	1976 Dec 30 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y586	2443143.17	1976 Dec 30 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1976-Y587	2443143.25	1976 Dec 30 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y01	2443144.88	1977 Jan 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y02	2443146.17	1977 Jan 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y03	2443146.21	1977 Jan 02 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y04	2443146.88	1977 Jan 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y05	2443148.03	1977 Jan 04 1240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y06	2443148.38	1977 Jan 04 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y07	2443148.38	1977 Jan 04 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y08	2443148.88	1977 Jan 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y09	2443148.91	1977 Jan 05 0950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W27	2443148.94	1977 Jan 05 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W28	2443148.99	1977 Jan 05 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y10	2443149.12	1977 Jan 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W46	2443150.86	1977 Jan 07 0840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y13	2443155.38	1977 Jan 11 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W69	2443155.38	1977 Jan 11 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y14	2443155.73	1977 Jan 12 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W71	2443155.86	1977 Jan 12 0840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y15	2443156.12	1977 Jan 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y19	2443160.81	1977 Jan 17 0730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y21	2443162.38	1977 Jan 18 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y22	2443162.38	1977 Jan 18 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y25	2443162.83	1977 Jan 19 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y26	2443163.12	1977 Jan 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y30	2443163.79	1977 Jan 20 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W139	2443164.88	1977 Jan 21 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y31	2443166.79	1977 Jan 23 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W157	2443166.94	1977 Jan 23 1036:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y32	2443167.13	1977 Jan 23 1510:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y33	2443168.12	1977 Jan 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y34	2443169.38	1977 Jan 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y35	2443169.83	1977 Jan 26 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y36	2443169.88	1977 Jan 26 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y37	2443169.93	1977 Jan 26 1020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y39	2443170.84	1977 Jan 27 0810:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y40	2443171.12	1977 Jan 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W202	2443172.12	1977 Jan 28 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y41	2443176.38	1977 Feb 01 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y42	2443176.42	1977 Feb 01 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W251	2443176.94	1977 Feb 02 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y43	2443177.12	1977 Feb 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y45	2443177.88	1977 Feb 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y46	2443177.92	1977 Feb 03 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y47	2443178.38	1977 Feb 03 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y48	2443178.88	1977 Feb 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y49	2443178.92	1977 Feb 04 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y50	2443180.88	1977 Feb 06 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y51	2443180.92	1977 Feb 06 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y52	2443183.38	1977 Feb 08 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y53	2443183.38	1977 Feb 08 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y54	2443183.90	1977 Feb 09 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-A10	2443184.12	1977 Feb 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W313	2443184.17	1977 Feb 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y58	2443185.12	1977 Feb 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y59	2443185.38	1977 Feb 10 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y64	2443190.38	1977 Feb 15 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y65	2443190.38	1977 Feb 15 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y66	2443190.94	1977 Feb 16 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y67	2443191.12	1977 Feb 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y68	2443192.12	1977 Feb 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y69	2443192.38	1977 Feb 17 2112:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y70	2443193.12	1977 Feb 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W387	2443197.38	1977 Feb 22 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y72	2443197.38	1977 Feb 22 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y73	2443197.40	1977 Feb 22 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y74	2443198.12	1977 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y75	2443198.12	1977 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y77	2443199.38	1977 Feb 24 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y79	2443200.12	1977 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y81	2443204.38	1977 Mar 01 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y82	2443204.93	1977 Mar 02 1020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y83	2443205.12	1977 Mar 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y84	2443205.17	1977 Mar 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y87	2443205.38	1977 Mar 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y88	2443206.38	1977 Mar 03 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y90	2443207.40	1977 Mar 04 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y91	2443211.38	1977 Mar 08 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y92	2443211.42	1977 Mar 08 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W476	2443211.94	1977 Mar 09 1032:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y93	2443212.12	1977 Mar 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y94	2443212.12	1977 Mar 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y96	2443213.38	1977 Mar 10 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y97	2443214.12	1977 Mar 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W500	2443214.71	1977 Mar 12 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-Y98	2443216.71	1977 Mar 14 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y99	2443217.12	1977 Mar 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y100	2443218.38	1977 Mar 15 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y101	2443219.06	1977 Mar 16 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y102	2443219.08	1977 Mar 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y103	2443219.12	1977 Mar 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W515	2443219.12	1977 Mar 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y104	2443219.15	1977 Mar 16 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y107	2443220.38	1977 Mar 17 2106:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y108	2443220.75	1977 Mar 18 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y109	2443221.09	1977 Mar 18 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y110	2443221.14	1977 Mar 18 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y111	2443221.19	1977 Mar 18 1640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y113	2443221.75	1977 Mar 19 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y114	2443222.75	1977 Mar 20 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y115	2443223.75	1977 Mar 21 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y116	2443224.12	1977 Mar 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y117	2443224.75	1977 Mar 22 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y118	2443225.38	1977 Mar 22 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y119	2443225.75	1977 Mar 23 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y120	2443226.06	1977 Mar 23 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y121	2443226.12	1977 Mar 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W553	2443226.12	1977 Mar 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y122	2443226.15	1977 Mar 23 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y127	2443228.08	1977 Mar 25 1401:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y128	2443228.12	1977 Mar 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y129	2443228.75	1977 Mar 26 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y130	2443230.79	1977 Mar 28 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y131	2443230.88	1977 Mar 28 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y132	2443233.06	1977 Mar 30 1320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y133	2443233.08	1977 Mar 30 1401:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y134	2443233.12	1977 Mar 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y135	2443233.12	1977 Mar 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y136	2443233.12	1977 Mar 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y139	2443235.08	1977 Apr 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y142	2443239.90	1977 Apr 06 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y143	2443239.97	1977 Apr 06 1110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y144	2443240.08	1977 Apr 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y145	2443240.08	1977 Apr 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y146	2443240.12	1977 Apr 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y147	2443240.12	1977 Apr 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y150	2443242.08	1977 Apr 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y152	2443246.82	1977 Apr 13 0740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y153	2443247.08	1977 Apr 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y154	2443247.12	1977 Apr 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y155	2443247.12	1977 Apr 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W671	2443247.71	1977 Apr 14 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y159	2443249.08	1977 Apr 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y160	2443250.12	1977 Apr 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y161	2443252.17	1977 Apr 18 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W696	2443254.08	1977 Apr 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y162	2443254.12	1977 Apr 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y163	2443254.12	1977 Apr 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W700	2443254.21	1977 Apr 20 1704:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W706	2443254.33	1977 Apr 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y166	2443255.89	1977 Apr 22 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W711	2443256.08	1977 Apr 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y168	2443260.90	1977 Apr 27 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y169	2443261.08	1977 Apr 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y170	2443261.08	1977 Apr 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y171	2443261.12	1977 Apr 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y174	2443267.88	1977 May 04 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y175	2443268.08	1977 May 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y176	2443268.12	1977 May 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y177	2443268.12	1977 May 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y179	2443272.08	1977 May 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y180	2443274.88	1977 May 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y181	2443274.88	1977 May 11 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y182	2443275.08	1977 May 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y183	2443275.12	1977 May 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y184	2443275.12	1977 May 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y188	2443278.08	1977 May 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y189	2443280.12	1977 May 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y190	2443281.25	1977 May 17 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y191	2443282.08	1977 May 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y192	2443282.08	1977 May 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y193	2443282.12	1977 May 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y194	2443282.12	1977 May 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y198	2443283.08	1977 May 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y199	2443284.12	1977 May 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y201	2443285.29	1977 May 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y202	2443285.42	1977 May 21 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y203	2443287.12	1977 May 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y204	2443289.08	1977 May 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y205	2443289.12	1977 May 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W887	2443289.12	1977 May 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-Y207	2443289.23	1977 May 25 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W901	2443291.12	1977 May 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y211	2443291.32	1977 May 27 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y212	2443291.36	1977 May 27 2045:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y214	2443294.12	1977 May 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1922	2443294.50	1977 Jun	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	SR19,127	-	-
1977-W1923	2443294.50	1977 Jun	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	SR19,127	-	-
1977-S417	2443295.82	1977 Jun 1 0745	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	-	-
1977-Y215	2443296.08	1977 Jun 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y216	2443296.08	1977 Jun 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y217	2443296.12	1977 Jun 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y218	2443296.12	1977 Jun 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y219	2443296.12	1977 Jun 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y223	2443299.29	1977 Jun 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y224	2443299.46	1977 Jun 04 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y225	2443301.46	1977 Jun 06 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y226	2443302.90	1977 Jun 08 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y227	2443303.08	1977 Jun 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W964	2443303.08	1977 Jun 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y228	2443303.12	1977 Jun 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y231	2443310.01	1977 Jun 15 1210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y232	2443310.08	1977 Jun 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y233	2443310.08	1977 Jun 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y234	2443310.12	1977 Jun 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y237	2443312.08	1977 Jun 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y238	2443317.08	1977 Jun 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y239	2443317.08	1977 Jun 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y240	2443317.12	1977 Jun 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y244	2443319.08	1977 Jun 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y246	2443323.94	1977 Jun 29 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y247	2443324.08	1977 Jun 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y248	2443324.08	1977 Jun 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1095	2443324.12	1977 Jun 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y252	2443326.08	1977 Jul 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y253	2443331.08	1977 Jul 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1126	2443331.12	1977 Jul 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y254	2443331.15	1977 Jul 06 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y258	2443333.08	1977 Jul 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y259	2443338.08	1977 Jul 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y260	2443338.12	1977 Jul 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y261	2443338.12	1977 Jul 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y263	2443339.88	1977 Jul 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y264	2443340.12	1977 Jul 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1912	2443342.77	1977 Jul 18 0631	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1913	2443342.83	1977 Jul 18 0751	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-Y266	2443344.88	1977 Jul 20 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y267	2443345.08	1977 Jul 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y268	2443345.08	1977 Jul 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1914	2443346.35	1977 Jul 21 2030	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1915	2443346.42	1977 Jul 21 2200	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1916	2443346.48	1977 Jul 21 2330	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-Y270	2443347.08	1977 Jul 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1917	2443349.71	1977 Jul 25 0509	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1918	2443349.78	1977 Jul 25 0640	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1919	2443349.84	1977 Jul 25 0810	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1920	2443351.63	1977 Jul 27 0304	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-W1921	2443351.69	1977 Jul 27 0435	M-100B	-	Intercomp prep	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	RP-1053	SR19,127	-
1977-Y275	2443351.88	1977 Jul 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y276	2443352.08	1977 Jul 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y277	2443352.08	1977 Jul 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1269	2443353.88	1977 Jul 29 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y283	2443358.88	1977 Aug 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y284	2443358.94	1977 Aug 03 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y285	2443359.08	1977 Aug 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y286	2443359.08	1977 Aug 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y291	2443360.88	1977 Aug 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S422	2443366.09	1977 Aug 10 1405	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-W1341	2443365.79	1977 Aug 10 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y292	2443365.88	1977 Aug 10 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y293	2443365.94	1977 Aug 10 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y294	2443366.08	1977 Aug 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S420	2443367.67	1977 Aug 12 0405	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-Y297	2443367.88	1977 Aug 12 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S333	2443367.75	1977 Aug 12 0606	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S334	2443367.96	1977 Aug 12 1105	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S335	2443371.23	1977 Aug 15 1735	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S424	2443371.32	1977 Aug 15 1935	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-M15	2443371.55	1977 Aug 16 0105	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S425	2443372.28	1977 Aug 16 1840	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S337	2443372.35	1977 Aug 16 2029	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-Y299	2443372.88	1977 Aug 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y300	2443373.08	1977 Aug 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1363	2443373.08	1977 Aug 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y301	2443373.18	1977 Aug 17 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S336	2443373.34	1977 Aug 17 2015	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S426	2443374.56	1977 Aug 19 0120	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S427	2443374.63	1977 Aug 19 0308	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S428	2443374.71	1977 Aug 19 0507	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-Y303	2443374.88	1977 Aug 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S429	2443375.34	1977 Aug 19 2005	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S421	2443375.42	1977 Aug 19 2205	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S430	2443375.55	1977 Aug 20 0105	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S431	2443378.47	1977 Aug 22 2312	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S432	2443378.55	1977 Aug 23 0105	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-S433	2443378.65	1977 Aug 23 0343	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-Y304	2443379.46	1977 Aug 23 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S434	2443379.55	1977 Aug 24 0107	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovskiy	Meteo	RP-1053	-	-
1977-W1911	2443379.63	1977 Aug 24 0308	M-100B	-	US-USSR Intercomp	0.000	AN	SS	-	GMS/Ivanovksy	Meteo	SR19,127	-	-
1977-Y305	2443380.08	1977 Aug 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y306	2443380.08	1977 Aug 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y307	2443380.08	1977 Aug 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y309	2443382.08	1977 Aug 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y311	2443386.98	1977 Aug 31 1130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y312	2443387.08	1977 Aug 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y313	2443387.08	1977 Aug 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y314	2443387.12	1977 Aug 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y320	2443394.08	1977 Sep 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y321	2443394.08	1977 Sep 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y322	2443394.08	1977 Sep 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y324	2443394.32	1977 Sep 07 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1461	2443400.40	1977 Sep 13 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y325	2443401.08	1977 Sep 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y326	2443401.08	1977 Sep 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1463	2443401.08	1977 Sep 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y331	2443408.08	1977 Sep 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y332	2443408.08	1977 Sep 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1492	2443408.21	1977 Sep 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1499	2443409.08	1977 Sep 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-S418	2443414.69	1977 Sep 28 0430	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	-	-
1977-W1522	2443415.08	1977 Sep 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y338	2443415.08	1977 Sep 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y339	2443415.12	1977 Sep 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1525	2443415.16	1977 Sep 28 1545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y342	2443416.08	1977 Sep 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y345	2443421.70	1977 Oct 5 0443:00	M-100	-	ISRO 8.345	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	SR20,75	ProcIAS90,173	-
1977-Y346	2443422.08	1977 Oct 5 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y347	2443422.08	1977 Oct 5 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y348	2443422.12	1977 Oct 5 1500:00	M-100	-	ISRO 8.346?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1556	2443422.15	1977 Oct 5 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y349	2443422.21	1977 Oct 5 1700:00	M-100	-	ISRO 8.347?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y351	2443422.33	1977 Oct 5 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y352	2443422.39	1977 Oct 5 2116:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI19,641	-
1977-Y353	2443428.08	1977 Oct 11 1400:00	M-100	-	ISRO 8.348?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y354	2443429.02	1977 Oct 12 1230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y355	2443429.07	1977 Oct 12 1345:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y356	2443429.08	1977 Oct 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y357	2443429.08	1977 Oct 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y361	2443430.35	1977 Oct 13 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y362	2443435.39	1977 Oct 18 2128:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y363	2443436.08	1977 Oct 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y364	2443436.08	1977 Oct 19 1400:00	M-100	-	ISRO 8.349?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1603	2443436.12	1977 Oct 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1604	2443436.20	1977 Oct 19 1645:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y367	2443437.99	1977 Oct 21 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y368	2443438.03	1977 Oct 21 1240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y369	2443441.97	1977 Oct 25 1120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y370	2443442.02	1977 Oct 25 1230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y371	2443442.25	1977 Oct 25 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI19,641	-
1977-Y372	2443443.08	1977 Oct 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y373	2443443.08	1977 Oct 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1635	2443443.17	1977 Oct 26 1600:00	M-100	-	ISRO 8.350?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y379	2443450.08	1977 Nov 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y380	2443450.08	1977 Nov 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1665	2443450.15	1977 Nov 02 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y381	2443450.17	1977 Nov 02 1600:00	M-100	-	ISRO 8.351?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y382	2443450.21	1977 Nov 02 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y383	2443450.25	1977 Nov 02 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y399	2443453.12	1977 Nov 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y405	2443455.33	1977 Nov 07 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1692	2443456.21	1977 Nov 08 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y406	2443457.08	1977 Nov 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y407	2443457.10	1977 Nov 09 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1695	2443457.15	1977 Nov 09 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y408	2443457.21	1977 Nov 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y409	2443457.21	1977 Nov 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y413	2443457.29	1977 Nov 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y415	2443458.12	1977 Nov 10 1500:00	M-100	-	ISRO 8.352?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y416	2443459.21	1977 Nov 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y417	2443461.21	1977 Nov 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1723	2443463.12	1977 Nov 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y418	2443464.08	1977 Nov 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y419	2443464.08	1977 Nov 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-Y420	2443464.12	1977 Nov 16 1500:00	M-100	-	ISRO 8.353?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1728	2443464.15	1977 Nov 16 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1732	2443464.21	1977 Nov 16 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y425	2443464.96	1977 Nov 17 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y426	2443469.17	1977 Nov 21 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y427	2443470.12	1977 Nov 22 1500:00	M-100	-	ISRO 8.354?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y428	2443470.20	1977 Nov 22 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y429	2443470.92	1977 Nov 23 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y430	2443471.08	1977 Nov 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y431	2443471.08	1977 Nov 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y432	2443471.12	1977 Nov 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y433	2443471.21	1977 Nov 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y438	2443472.00	1977 Nov 24 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y439	2443472.25	1977 Nov 24 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1772	2443473.92	1977 Nov 26 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1773	2443474.21	1977 Nov 26 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y440	2443475.92	1977 Nov 28 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y441	2443476.12	1977 Nov 28 1500:00	M-100	-	ISRO 8.355?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1777	2443476.21	1977 Nov 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1779	2443476.25	1977 Nov 28 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y442	2443476.92	1977 Nov 29 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1784	2443477.21	1977 Nov 29 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y443	2443477.29	1977 Nov 29 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y444	2443478.08	1977 Nov 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1794	2443478.08	1977 Nov 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y445	2443478.12	1977 Nov 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y446	2443478.17	1977 Nov 30 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y447	2443478.17	1977 Nov 30 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y453	2443478.88	1977 Dec 01 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y454	2443479.25	1977 Dec 01 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y455	2443479.96	1977 Dec 02 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y456	2443480.38	1977 Dec 02 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y457	2443481.29	1977 Dec 03 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y458	2443485.08	1977 Dec 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y459	2443485.12	1977 Dec 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1826	2443485.14	1977 Dec 07 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y461	2443487.25	1977 Dec 09 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y462	2443487.92	1977 Dec 10 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y463	2443489.21	1977 Dec 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1856	2443491.88	1977 Dec 14 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y464	2443492.00	1977 Dec 14 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y465	2443492.08	1977 Dec 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y466	2443492.17	1977 Dec 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y467	2443492.21	1977 Dec 14 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y468	2443492.25	1977 Dec 14 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y470	2443493.17	1977 Dec 15 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y471	2443494.21	1977 Dec 16 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y472	2443495.96	1977 Dec 18 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y473	2443497.21	1977 Dec 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y474	2443498.21	1977 Dec 20 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y475	2443498.89	1977 Dec 21 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y476	2443499.08	1977 Dec 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-W1886	2443499.08	1977 Dec 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y477	2443499.19	1977 Dec 21 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y478	2443499.21	1977 Dec 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y480	2443500.17	1977 Dec 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y481	2443504.12	1977 Dec 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y482	2443504.67	1977 Dec 27 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y483	2443504.82	1977 Dec 27 0740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y484	2443505.39	1977 Dec 27 2117:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y485	2443505.46	1977 Dec 27 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y486	2443505.94	1977 Dec 28 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y487	2443506.08	1977 Dec 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y488	2443506.08	1977 Dec 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y489	2443506.21	1977 Dec 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y491	2443507.07	1977 Dec 29 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y492	2443507.12	1977 Dec 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y493	2443507.18	1977 Dec 29 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1977-Y494	2443507.24	1977 Dec 29 1740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y03	2443512.90	1978 Jan 04 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W06	2443513.08	1978 Jan 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y04	2443513.08	1978 Jan 04 1400:00	M-100	-	ISRO 8.356?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y05	2443513.12	1978 Jan 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y09	2443514.12	1978 Jan 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y10	2443519.00	1978 Jan 10 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y11	2443519.93	1978 Jan 11 1015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y12	2443520.00	1978 Jan 11 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y13	2443520.08	1978 Jan 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y14	2443520.08	1978 Jan 11 1400:00	M-100	-	ISRO 8.357?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y15	2443520.12	1978 Jan 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y19	2443520.85	1978 Jan 12 0820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y20	2443521.04	1978 Jan 12 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y21	2443522.08	1978 Jan 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y22	2443523.08	1978 Jan 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y23	2443525.08	1978 Jan 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y24	2443526.96	1978 Jan 18 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y25	2443527.00	1978 Jan 18 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y26	2443527.04	1978 Jan 18 1255:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y27	2443527.08	1978 Jan 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y28	2443527.08	1978 Jan 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y29	2443527.08	1978 Jan 18 1400:00	M-100	-	ISRO 8.358?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y30	2443527.12	1978 Jan 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y34	2443528.92	1978 Jan 20 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y35	2443528.99	1978 Jan 20 1145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y36	2443532.00	1978 Jan 23 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y37	2443533.94	1978 Jan 25 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W89	2443534.08	1978 Jan 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y38	2443534.08	1978 Jan 25 1400:00	M-100	-	ISRO 8.359?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y39	2443534.12	1978 Jan 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y42	2443535.00	1978 Jan 26 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y43	2443535.12	1978 Jan 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y44	2443536.00	1978 Jan 27 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y46	2443539.08	1978 Jan 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y48	2443540.58	1978 Feb 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y49	2443540.90	1978 Feb 01 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y50	2443541.08	1978 Feb 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y51	2443541.08	1978 Feb 01 1400:00	M-100	-	ISRO 8.360?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y52	2443541.12	1978 Feb 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y54	2443542.92	1978 Feb 03 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y55	2443543.10	1978 Feb 03 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y57	2443546.88	1978 Feb 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y59	2443547.92	1978 Feb 08 1010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y60	2443548.08	1978 Feb 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y61	2443548.08	1978 Feb 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y62	2443548.08	1978 Feb 08 1400:00	M-100	-	ISRO 8.361?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y65	2443550.08	1978 Feb 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y66	2443554.83	1978 Feb 15 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y67	2443554.88	1978 Feb 15 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y68	2443555.08	1978 Feb 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y69	2443555.08	1978 Feb 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y70	2443555.08	1978 Feb 15 1400:00	M-100	-	ISRO 8.362?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y73	2443556.88	1978 Feb 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y74	2443557.08	1978 Feb 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y75	2443558.89	1978 Feb 19 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y79	2443561.88	1978 Feb 22 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y81	2443562.08	1978 Feb 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y82	2443562.08	1978 Feb 22 1400:00	M-100	-	ISRO 8.363?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y84	2443562.85	1978 Feb 23 0830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y85	2443563.90	1978 Feb 24 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y87	2443564.08	1978 Feb 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y90	2443566.83	1978 Feb 27 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y93	2443568.81	1978 Mar 01 0730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y94	2443569.06	1978 Mar 01 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y95	2443569.08	1978 Mar 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y96	2443569.08	1978 Mar 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y97	2443569.08	1978 Mar 01 1400:00	M-100	-	ISRO 8.364?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W260	2443569.12	1978 Mar 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y99	2443570.99	1978 Mar 03 1150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y100	2443571.06	1978 Mar 03 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y101	2443571.08	1978 Mar 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y102	2443572.88	1978 Mar 05 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y103	2443572.93	1978 Mar 05 1015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y105	2443574.79	1978 Mar 07 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y106	2443575.08	1978 Mar 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y107	2443575.08	1978 Mar 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y108	2443575.82	1978 Mar 08 0740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y109	2443575.88	1978 Mar 08 0910:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y110	2443576.08	1978 Mar 08 1400:00	M-100	-	ISRO 8.365?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W298	2443578.15	1978 Mar 10 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y112	2443583.08	1978 Mar 15 1400:00	M-100	-	ISRO 8.366?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y113	2443583.17	1978 Mar 15 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y116	2443583.29	1978 Mar 15 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y118	2443584.08	1978 Mar 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y120	2443587.04	1978 Mar 19 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y121	2443590.08	1978 Mar 22 1350:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y122	2443590.08	1978 Mar 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W339	2443590.08	1978 Mar 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y123	2443590.08	1978 Mar 22 1400:00	M-100	-	ISRO 8.367?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y124	2443590.17	1978 Mar 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y127	2443593.96	1978 Mar 26 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y128	2443594.04	1978 Mar 26 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y129	2443597.08	1978 Mar 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y130	2443597.08	1978 Mar 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y131	2443597.08	1978 Mar 29 1400:00	M-100	-	ISRO 8.368?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y132	2443597.10	1978 Mar 29 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y133	2443597.12	1978 Mar 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y135	2443598.04	1978 Mar 30 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y136	2443598.08	1978 Mar 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y137	2443599.09	1978 Mar 31 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y138	2443599.21	1978 Mar 31 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y139	2443602.00	1978 Apr 03 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y140	2443602.08	1978 Apr 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y141	2443604.08	1978 Apr 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y142	2443604.12	1978 Apr 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y145	2443604.31	1978 Apr 05 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y147	2443604.96	1978 Apr 06 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y148	2443605.96	1978 Apr 07 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y149	2443606.02	1978 Apr 07 1230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y150	2443606.08	1978 Apr 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y151	2443606.19	1978 Apr 07 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y152	2443611.08	1978 Apr 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y153	2443611.08	1978 Apr 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y154	2443611.18	1978 Apr 12 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y157	2443617.67	1978 Apr 19 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y158	2443618.08	1978 Apr 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y159	2443618.17	1978 Apr 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y163	2443619.21	1978 Apr 20 1700:00	M-100	-	ISRO 8.369?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y164	2443619.92	1978 Apr 21 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y165	2443620.86	1978 Apr 22 0835:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y166	2443620.92	1978 Apr 22 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y167	2443621.89	1978 Apr 23 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y168	2443622.87	1978 Apr 24 0850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y169	2443623.87	1978 Apr 25 0850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y170	2443624.69	1978 Apr 26 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y171	2443625.08	1978 Apr 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y172	2443625.08	1978 Apr 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y174	2443625.29	1978 Apr 26 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y175	2443625.88	1978 Apr 27 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W481	2443631.67	1978 May 03 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y176	2443632.08	1978 May 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y177	2443632.08	1978 May 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W504	2443638.67	1978 May 10 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W505	2443638.73	1978 May 10 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y179	2443639.08	1978 May 10 1400:00	M-100	-	ISRO 8.370?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y180	2443639.10	1978 May 10 1417:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y181	2443639.12	1978 May 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W521	2443644.08	1978 May 15 1400:00	M-100	-	ISRO 8.371?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W528	2443645.27	1978 May 16 1833:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y187	2443645.67	1978 May 17 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W529	2443646.08	1978 May 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y188	2443646.08	1978 May 17 1400:00	M-100	-	ISRO 8.372?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y191	2443646.38	1978 May 17 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y192	2443647.08	1978 May 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y193	2443648.08	1978 May 19 1400:00	M-100	-	ISRO 8.373?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y194	2443652.08	1978 May 23 1400:00	M-100	-	ISRO 8.374?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W575	2443652.35	1978 May 23 2018:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y195	2443652.67	1978 May 24 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W576	2443652.72	1978 May 24 0510:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y196	2443653.08	1978 May 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W577	2443653.08	1978 May 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y198	2443653.40	1978 May 24 2132:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y199	2443654.50	1978 May 26 0000:00	M-100	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	KI20,765	KI19,641
1978-Y200	2443654.54	1978 May 26 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y201	2443658.08	1978 May 29 1400:00	M-100	-	ISRO 8.375?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y202	2443659.40	1978 May 30 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y203	2443660.08	1978 May 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W602	2443660.08	1978 May 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y204	2443660.08	1978 May 31 1400:00	M-100	-	ISRO 8.376?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y208	2443662.08	1978 Jun 02 1400:00	M-100	-	ISRO 8.377?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W623	2443666.50	1978 Jun 07 0000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI18,807	-
1978-W624	2443666.88	1978 Jun 07 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y209	2443667.08	1978 Jun 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y210	2443667.08	1978 Jun 07 1400:00	M-100	-	ISRO 8.378?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y211	2443667.13	1978 Jun 07 1506:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y214	2443669.08	1978 Jun 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y215	2443673.44	1978 Jun 13 2240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y216	2443674.08	1978 Jun 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y217	2443674.08	1978 Jun 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W643	2443674.08	1978 Jun 14 1400:00	M-100	-	ISRO 8.379?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W644	2443674.11	1978 Jun 14 1433:00	M-100B	-	ISRO 8.?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y218	2443674.13	1978 Jun 14 1506:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y220	2443676.08	1978 Jun 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y221	2443680.38	1978 Jun 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y222	2443681.08	1978 Jun 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y223	2443681.08	1978 Jun 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y224	2443681.18	1978 Jun 21 1613:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y226	2443681.22	1978 Jun 21 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y229	2443682.08	1978 Jun 22 1400:00	M-100	-	ISRO 8.380?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y230	2443682.09	1978 Jun 22 1412:00	M-100B	-	ISRO 8.?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y231	2443683.08	1978 Jun 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y232	2443687.38	1978 Jun 27 2105:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y233	2443688.08	1978 Jun 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W690	2443688.08	1978 Jun 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y234	2443688.08	1978 Jun 28 1400:00	M-100	-	ISRO 8.381?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W691	2443688.11	1978 Jun 28 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y236	2443688.23	1978 Jun 28 1725:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y239	2443690.08	1978 Jun 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y240	2443695.08	1978 Jul 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y241	2443695.08	1978 Jul 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W712	2443695.08	1978 Jul 05 1400:00	M-100	-	ISRO 8.382?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y242	2443695.17	1978 Jul 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y246	2443697.08	1978 Jul 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y247	2443697.25	1978 Jul 07 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y248	2443700.17	1978 Jul 10 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y249	2443702.08	1978 Jul 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y250	2443702.08	1978 Jul 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y251	2443702.08	1978 Jul 12 1400:00	M-100	-	ISRO 8.383?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y252	2443702.09	1978 Jul 12 1407:00	M-100B	-	ISRO 8.?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y253	2443702.17	1978 Jul 12 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y258	2443703.08	1978 Jul 13 1400:00	M-100	-	ISRO 8.384?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y260	2443704.08	1978 Jul 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y261	2443705.08	1978 Jul 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y262	2443709.08	1978 Jul 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y263	2443709.08	1978 Jul 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y264	2443709.11	1978 Jul 19 1434:00	M-100B	-	ISRO 8.385?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y265	2443709.12	1978 Jul 19 1500:00	M-100	-	ISRO 8.?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W759	2443709.17	1978 Jul 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y268	2443711.08	1978 Jul 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y269	2443716.08	1978 Jul 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y270	2443716.08	1978 Jul 26 1400:00	M-100	-	ISRO 8.386?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y271	2443716.17	1978 Jul 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y275	2443723.08	1978 Aug 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y276	2443723.08	1978 Aug 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y277	2443723.12	1978 Aug 02 1500:00	M-100	-	ISRO 8.387?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y278	2443723.17	1978 Aug 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y283	2443725.08	1978 Aug 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y284	2443730.08	1978 Aug 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y285	2443730.08	1978 Aug 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y286	2443730.08	1978 Aug 09 1400:00	M-100B	-	ISRO 8.388?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y287	2443730.12	1978 Aug 09 1500:00	M-100	-	ISRO 8.?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y288	2443730.17	1978 Aug 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y291	2443730.29	1978 Aug 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y293	2443731.10	1978 Aug 10 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-Y294	2443731.10	1978 Aug 10 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y295	2443732.08	1978 Aug 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y296	2443735.10	1978 Aug 14 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y297	2443735.10	1978 Aug 14 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-Y298	2443735.15	1978 Aug 14 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y299	2443737.04	1978 Aug 16 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y300	2443737.08	1978 Aug 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y301	2443737.08	1978 Aug 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W845	2443737.08	1978 Aug 16 1400:00	M-100	-	ISRO 8.389?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y302	2443737.19	1978 Aug 16 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y304	2443737.31	1978 Aug 16 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y307	2443737.44	1978 Aug 16 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y308	2443739.08	1978 Aug 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y309	2443739.15	1978 Aug 18 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y310	2443740.21	1978 Aug 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W870	2443744.08	1978 Aug 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y311	2443744.08	1978 Aug 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y312	2443744.08	1978 Aug 23 1400:00	M-100	-	ISRO 8.390?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y313	2443744.09	1978 Aug 23 1412:00	M-100B	-	ISRO 8.391?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y314	2443744.18	1978 Aug 23 1625:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y316	2443744.21	1978 Aug 23 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W880	2443744.57	1978 Aug 24 0145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y318	2443746.10	1978 Aug 25 1417:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y319	2443749.04	1978 Aug 28 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y320	2443750.17	1978 Aug 29 1606:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y321	2443750.68	1978 Aug 30 0420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y322	2443750.68	1978 Aug 30 0420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-Y323	2443751.04	1978 Aug 30 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W898	2443751.08	1978 Aug 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y324	2443751.08	1978 Aug 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y325	2443751.08	1978 Aug 30 1400:00	M-100	-	ISRO 8.392?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y327	2443752.57	1978 Sep 1 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y328	2443753.09	1978 Sep 1 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y329	2443755.69	1978 Sep 4 0429:00	M-100	-	ISRO 8.393	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	WDCRF	SR20,75	-
1978-Y330	2443756.25	1978 Sep 4 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y331	2443756.58	1978 Sep 5 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y332	2443757.08	1978 Sep 5 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y333	2443757.68	1978 Sep 6 0420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y334	2443758.10	1978 Sep 6 1417:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y335	2443758.13	1978 Sep 6 1505:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y336	2443758.17	1978 Sep 6 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y339	2443760.15	1978 Sep 8 1536:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y340	2443764.08	1978 Sep 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y341	2443764.60	1978 Sep 13 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y342	2443765.08	1978 Sep 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y343	2443765.08	1978 Sep 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y346	2443767.19	1978 Sep 15 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y347	2443767.31	1978 Sep 15 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y349	2443772.08	1978 Sep 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y350	2443772.08	1978 Sep 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y352	2443772.17	1978 Sep 20 1607:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y355	2443773.08	1978 Sep 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y357	2443778.40	1978 Sep 26 2132:00	M-100B	-	-	0.000	AN	SU	-	-	Bio	WDCRF	-	-
1978-Y358	2443779.08	1978 Sep 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y359	2443779.08	1978 Sep 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y360	2443779.08	1978 Sep 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y365	2443786.08	1978 Oct 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y366	2443786.08	1978 Oct 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y367	2443786.08	1978 Oct 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y370	2443786.39	1978 Oct 04 2125:00	M-100B	-	-	0.000	AN	SU	-	-	Bio	WDCRF	-	-
1978-Y371	2443786.47	1978 Oct 04 2317:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y372	2443787.33	1978 Oct 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y373	2443793.06	1978 Oct 11 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y374	2443793.08	1978 Oct 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y375	2443793.08	1978 Oct 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y376	2443793.08	1978 Oct 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y379	2443799.67	1978 Oct 18 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y380	2443799.71	1978 Oct 18 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y381	2443800.08	1978 Oct 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y382	2443800.08	1978 Oct 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y383	2443800.08	1978 Oct 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y389	2443806.56	1978 Oct 25 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y390	2443807.08	1978 Oct 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y391	2443807.08	1978 Oct 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y395	2443808.08	1978 Oct 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y396	2443814.08	1978 Nov 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y397	2443814.10	1978 Nov 01 1427:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y398	2443814.12	1978 Nov 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y400	2443814.19	1978 Nov 01 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y403	2443814.33	1978 Nov 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y405	2443821.08	1978 Nov 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y406	2443821.08	1978 Nov 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y407	2443821.12	1978 Nov 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y410	2443821.67	1978 Nov 09 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y411	2443827.67	1978 Nov 15 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y412	2443828.08	1978 Nov 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y413	2443828.08	1978 Nov 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y414	2443828.08	1978 Nov 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-W1193	2443834.67	1978 Nov 22 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y419	2443835.08	1978 Nov 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y420	2443835.08	1978 Nov 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y421	2443835.12	1978 Nov 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y424	2443842.08	1978 Nov 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y426	2443842.14	1978 Nov 29 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y428	2443842.31	1978 Nov 29 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y429	2443843.08	1978 Nov 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y431	2443848.67	1978 Dec 06 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y432	2443849.00	1978 Dec 06 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y433	2443849.08	1978 Dec 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y434	2443849.08	1978 Dec 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y438	2443855.69	1978 Dec 13 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y439	2443856.08	1978 Dec 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y440	2443856.08	1978 Dec 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y441	2443856.11	1978 Dec 13 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y444	2443862.67	1978 Dec 20 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y445	2443863.08	1978 Dec 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y446	2443863.08	1978 Dec 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y447	2443863.08	1978 Dec 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y451	2443869.71	1978 Dec 27 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y452	2443870.08	1978 Dec 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y453	2443870.08	1978 Dec 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-Y454	2443870.08	1978 Dec 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y01	2443876.08	1979 Jan 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y02	2443876.67	1979 Jan 03 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y03	2443877.08	1979 Jan 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y05	2443877.25	1979 Jan 03 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y07	2443879.08	1979 Jan 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y09	2443883.67	1979 Jan 10 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y10	2443884.08	1979 Jan 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y11	2443884.08	1979 Jan 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y12	2443884.08	1979 Jan 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y14	2443884.15	1979 Jan 10 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y17	2443885.67	1979 Jan 12 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y18	2443886.08	1979 Jan 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y19	2443886.08	1979 Jan 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y20	2443887.15	1979 Jan 13 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y21	2443888.15	1979 Jan 14 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y22	2443889.08	1979 Jan 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y23	2443890.15	1979 Jan 16 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y24	2443890.67	1979 Jan 17 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y25	2443891.08	1979 Jan 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y26	2443891.12	1979 Jan 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y27	2443891.17	1979 Jan 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W93	2443891.17	1979 Jan 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y32	2443892.16	1979 Jan 18 1550:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y33	2443892.65	1979 Jan 19 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y34	2443893.08	1979 Jan 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y35	2443893.15	1979 Jan 19 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y36	2443893.15	1979 Jan 19 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y37	2443894.14	1979 Jan 20 1525:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y38	2443895.15	1979 Jan 21 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y40	2443896.08	1979 Jan 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y41	2443896.15	1979 Jan 22 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y42	2443897.13	1979 Jan 23 1510:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y43	2443898.08	1979 Jan 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y44	2443898.08	1979 Jan 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y45	2443898.08	1979 Jan 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y46	2443898.15	1979 Jan 24 1535:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y47	2443898.19	1979 Jan 24 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y49	2443899.12	1979 Jan 25 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y51	2443900.12	1979 Jan 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y53	2443900.79	1979 Jan 27 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y54	2443901.08	1979 Jan 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y55	2443901.12	1979 Jan 27 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y56	2443901.14	1979 Jan 27 1525:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y58	2443902.15	1979 Jan 28 1535:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y59	2443903.08	1979 Jan 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y60	2443903.15	1979 Jan 29 1535:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y61	2443904.25	1979 Jan 30 1755:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y62	2443904.67	1979 Jan 31 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y63	2443905.08	1979 Jan 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y64	2443905.08	1979 Jan 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y65	2443905.08	1979 Jan 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y66	2443905.12	1979 Jan 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y70	2443906.12	1979 Feb 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y71	2443906.67	1979 Feb 02 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y72	2443906.71	1979 Feb 02 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y73	2443907.08	1979 Feb 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y74	2443907.12	1979 Feb 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y75	2443908.25	1979 Feb 03 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y76	2443909.21	1979 Feb 04 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y77	2443909.33	1979 Feb 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y78	2443910.25	1979 Feb 05 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y79	2443910.39	1979 Feb 05 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y80	2443911.29	1979 Feb 06 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y81	2443911.67	1979 Feb 07 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y82	2443912.08	1979 Feb 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y83	2443912.12	1979 Feb 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y84	2443912.12	1979 Feb 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W210	2443912.28	1979 Feb 07 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y87	2443913.64	1979 Feb 09 0320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y88	2443914.08	1979 Feb 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y89	2443914.21	1979 Feb 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y90	2443914.35	1979 Feb 09 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y91	2443915.31	1979 Feb 10 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y92	2443916.33	1979 Feb 11 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y93	2443917.08	1979 Feb 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y94	2443917.37	1979 Feb 12 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y95	2443918.33	1979 Feb 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y96	2443918.34	1979 Feb 13 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y97	2443919.08	1979 Feb 14 1350:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y98	2443919.08	1979 Feb 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y99	2443919.08	1979 Feb 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y100	2443919.08	1979 Feb 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y101	2443919.08	1979 Feb 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y102	2443919.17	1979 Feb 14 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y105	2443919.29	1979 Feb 14 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y107	2443919.42	1979 Feb 14 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y108	2443920.29	1979 Feb 15 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y109	2443921.08	1979 Feb 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y110	2443921.14	1979 Feb 16 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y111	2443921.33	1979 Feb 16 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y112	2443921.33	1979 Feb 16 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y113	2443922.29	1979 Feb 17 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y114	2443923.29	1979 Feb 18 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y115	2443925.56	1979 Feb 21 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y116	2443926.08	1979 Feb 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y117	2443926.08	1979 Feb 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y118	2443926.17	1979 Feb 21 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y120	2443928.25	1979 Feb 23 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y121	2443928.47	1979 Feb 23 2315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y126	2443931.25	1979 Feb 26 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W310	2443932.07	1979 Feb 27 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W319	2443932.79	1979 Feb 28 0700:00	M-100	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W318	2443933.08	1979 Feb 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y129	2443933.08	1979 Feb 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y130	2443933.09	1979 Feb 28 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y133	2443934.21	1979 Mar 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y134	2443934.29	1979 Mar 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y136	2443939.57	1979 Mar 07 0145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W346	2443940.08	1979 Mar 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y138	2443940.22	1979 Mar 07 1715:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y140	2443941.08	1979 Mar 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y141	2443946.69	1979 Mar 14 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W371	2443946.88	1979 Mar 14 0908:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y142	2443947.00	1979 Mar 14 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y143	2443947.04	1979 Mar 14 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y147	2443947.38	1979 Mar 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y149	2443947.69	1979 Mar 15 0435:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y150	2443947.83	1979 Mar 15 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y151	2443948.67	1979 Mar 16 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W383	2443948.69	1979 Mar 16 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y152	2443948.83	1979 Mar 16 0750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y153	2443949.00	1979 Mar 16 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y154	2443949.75	1979 Mar 17 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y155	2443949.83	1979 Mar 17 0750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y156	2443950.67	1979 Mar 18 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y157	2443950.86	1979 Mar 18 0845:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y158	2443951.00	1979 Mar 18 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y159	2443951.21	1979 Mar 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y160	2443951.29	1979 Mar 18 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y161	2443951.67	1979 Mar 19 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y162	2443951.81	1979 Mar 19 0725:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y163	2443951.99	1979 Mar 19 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y164	2443952.67	1979 Mar 20 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y165	2443952.80	1979 Mar 20 0715:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y166	2443952.99	1979 Mar 20 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y167	2443953.23	1979 Mar 20 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y168	2443953.69	1979 Mar 21 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y169	2443953.80	1979 Mar 21 0705:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y170	2443953.99	1979 Mar 21 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y171	2443954.21	1979 Mar 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y176	2443954.67	1979 Mar 22 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y177	2443954.79	1979 Mar 22 0655:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y178	2443954.99	1979 Mar 22 1145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y179	2443955.67	1979 Mar 23 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y180	2443955.78	1979 Mar 23 0645:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y181	2443956.67	1979 Mar 24 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y182	2443956.78	1979 Mar 24 0645:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y183	2443957.00	1979 Mar 24 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y184	2443957.08	1979 Mar 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y185	2443957.67	1979 Mar 25 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y186	2443957.77	1979 Mar 25 0630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y187	2443958.67	1979 Mar 26 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y188	2443958.73	1979 Mar 26 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y189	2443958.91	1979 Mar 26 0955:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y190	2443958.99	1979 Mar 26 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y191	2443959.71	1979 Mar 27 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y192	2443959.76	1979 Mar 27 0610:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y193	2443960.25	1979 Mar 27 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y194	2443960.29	1979 Mar 27 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y195	2443960.67	1979 Mar 28 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y196	2443960.75	1979 Mar 28 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y197	2443960.99	1979 Mar 28 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y199	2443961.21	1979 Mar 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y201	2443961.75	1979 Mar 29 0555:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y202	2443962.67	1979 Mar 30 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y203	2443962.74	1979 Mar 30 0545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y204	2443962.99	1979 Mar 30 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y205	2443963.71	1979 Mar 31 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y206	2443963.73	1979 Mar 31 0535:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y207	2443964.12	1979 Mar 31 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y208	2443964.17	1979 Mar 31 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y209	2443964.67	1979 Apr 01 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y210	2443964.73	1979 Apr 01 0525:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y211	2443965.00	1979 Apr 01 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W442	2443965.67	1979 Apr 02 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y212	2443965.72	1979 Apr 02 0515:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y213	2443966.67	1979 Apr 03 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y214	2443966.72	1979 Apr 03 0510:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y215	2443967.00	1979 Apr 03 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y216	2443967.67	1979 Apr 04 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y217	2443967.71	1979 Apr 04 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y219	2443968.25	1979 Apr 04 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y222	2443968.67	1979 Apr 05 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y223	2443968.70	1979 Apr 05 0450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y224	2443969.00	1979 Apr 05 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y226	2443969.69	1979 Apr 06 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y227	2443969.69	1979 Apr 06 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y228	2443969.71	1979 Apr 06 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y229	2443970.65	1979 Apr 07 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y230	2443970.69	1979 Apr 07 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y231	2443971.00	1979 Apr 07 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y232	2443971.08	1979 Apr 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y233	2443971.65	1979 Apr 08 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y234	2443971.68	1979 Apr 08 0425:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y235	2443972.65	1979 Apr 09 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y236	2443972.68	1979 Apr 09 0415:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y237	2443972.75	1979 Apr 9 0553	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	WDCRF	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y238	2443973.00	1979 Apr 09 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y239	2443973.63	1979 Apr 10 0305:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y240	2443973.65	1979 Apr 10 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y241	2443973.70	1979 Apr 10 0450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y242	2443974.65	1979 Apr 11 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y243	2443974.66	1979 Apr 11 0355:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y244	2443974.96	1979 Apr 11 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y246	2443975.21	1979 Apr 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y247	2443975.65	1979 Apr 12 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y248	2443978.00	1979 Apr 14 1201:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-S293	2443980.92	1979 Apr 17 1002	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	WDCRF	-
1979-Y249	2443981.40	1979 Apr 17 2131:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y250	2443981.58	1979 Apr 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y251	2443982.08	1979 Apr 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y254	2443983.08	1979 Apr 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y255	2443984.29	1979 Apr 20 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W526	2443985.00	1979 Apr 21 1202:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W528	2443985.38	1979 Apr 21 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y256	2443986.33	1979 Apr 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y257	2443987.99	1979 Apr 24 1139:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y258	2443988.34	1979 Apr 24 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y259	2443988.62	1979 Apr 25 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y260	2443989.08	1979 Apr 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y262	2443989.21	1979 Apr 25 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y264	2443990.46	1979 Apr 26 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y265	2443991.02	1979 Apr 27 1222:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y266	2443993.33	1979 Apr 29 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y267	2443995.33	1979 May 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y268	2443995.64	1979 May 02 0325:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y269	2443995.98	1979 May 02 1130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y272	2443996.29	1979 May 02 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y274	2443996.42	1979 May 02 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y275	2443996.58	1979 May 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y276	2443996.62	1979 May 03 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y278	2444002.58	1979 May 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y279	2444003.08	1979 May 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y280	2444003.21	1979 May 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y283	2444003.54	1979 May 10 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y284	2444003.62	1979 May 10 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y285	2444007.42	1979 May 13 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y286	2444009.53	1979 May 16 0040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y287	2444009.58	1979 May 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W631	2444009.60	1979 May 16 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y288	2444009.91	1979 May 16 0945	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	WDCRF	-
1979-Y289	2444010.06	1979 May 16 1324:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y290	2444010.08	1979 May 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y291	2444010.08	1979 May 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y293	2444010.38	1979 May 16 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y294	2444011.53	1979 May 18 0040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y295	2444012.06	1979 May 18 1324:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y296	2444012.11	1979 May 18 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y297	2444012.42	1979 May 18 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y298	2444013.42	1979 May 19 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y299	2444015.06	1979 May 21 1325:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y301	2444015.42	1979 May 21 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y302	2444015.42	1979 May 21 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y303	2444016.43	1979 May 22 2220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W663	2444016.58	1979 May 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y304	2444016.58	1979 May 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y305	2444017.08	1979 May 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y306	2444017.08	1979 May 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W666	2444017.11	1979 May 23 1432:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y309	2444017.46	1979 May 23 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y310	2444018.42	1979 May 24 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y311	2444019.06	1979 May 25 1323:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y312	2444019.08	1979 May 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y313	2444019.53	1979 May 26 0040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y314	2444020.42	1979 May 26 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W690	2444020.64	1979 May 27 0315:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W693	2444021.40	1979 May 27 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y315	2444021.59	1979 May 28 0211:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W694	2444021.64	1979 May 28 0316:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y316	2444023.40	1979 May 29 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y317	2444023.40	1979 May 29 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y319	2444024.11	1979 May 30 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y320	2444024.21	1979 May 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y322	2444024.29	1979 May 30 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y324	2444026.08	1979 Jun 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y325	2444027.12	1979 Jun 02 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y327	2444030.12	1979 Jun 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y328	2444030.40	1979 Jun 05 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y329	2444030.58	1979 Jun 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-S294	2444030.91	1979 Jun 6 0949	M-100	-	-	0.000	ISRO/AN	SS	-	-	Aeron	ProcIAS90,173	-	-
1979-Y330	2444031.08	1979 Jun 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y331	2444031.12	1979 Jun 06 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y333	2444032.99	1979 Jun 08 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y334	2444033.08	1979 Jun 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y335	2444033.12	1979 Jun 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y336	2444034.12	1979 Jun 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W748	2444035.07	1979 Jun 10 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y337	2444037.94	1979 Jun 13 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W758	2444038.07	1979 Jun 13 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y338	2444038.08	1979 Jun 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y340	2444038.12	1979 Jun 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y342	2444038.29	1979 Jun 13 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y343	2444040.08	1979 Jun 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y344	2444041.12	1979 Jun 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W780	2444043.12	1979 Jun 18 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y345	2444044.59	1979 Jun 20 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y346	2444045.08	1979 Jun 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y347	2444045.08	1979 Jun 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y348	2444045.11	1979 Jun 20 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y349	2444045.12	1979 Jun 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y351	2444045.35	1979 Jun 20 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y353	2444047.08	1979 Jun 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y354	2444048.08	1979 Jun 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y355	2444048.12	1979 Jun 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y356	2444049.12	1979 Jun 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y357	2444049.38	1979 Jun 24 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y358	2444050.03	1979 Jun 25 1240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y359	2444051.38	1979 Jun 26 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y360	2444051.40	1979 Jun 26 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y361	2444052.08	1979 Jun 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y363	2444052.12	1979 Jun 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y364	2444052.12	1979 Jun 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y365	2444052.12	1979 Jun 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y369	2444054.12	1979 Jun 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y370	2444054.12	1979 Jun 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y371	2444055.12	1979 Jun 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y372	2444058.40	1979 Jul 03 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y373	2444058.71	1979 Jul 04 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y374	2444058.71	1979 Jul 04 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y375	2444059.12	1979 Jul 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y376	2444060.12	1979 Jul 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y377	2444061.08	1979 Jul 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y380	2444062.08	1979 Jul 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y381	2444063.08	1979 Jul 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y383	2444065.12	1979 Jul 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y384	2444066.00	1979 Jul 11 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y385	2444066.08	1979 Jul 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y386	2444066.12	1979 Jul 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y389	2444066.40	1979 Jul 11 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y392	2444068.08	1979 Jul 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y396	2444072.58	1979 Jul 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y397	2444073.06	1979 Jul 18 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y398	2444073.08	1979 Jul 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y399	2444073.08	1979 Jul 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y402	2444075.08	1979 Jul 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y403	2444075.08	1979 Jul 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y404	2444077.00	1979 Jul 22 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y405	2444077.17	1979 Jul 22 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y407	2444080.08	1979 Jul 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y408	2444080.08	1979 Jul 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y409	2444080.08	1979 Jul 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y410	2444080.17	1979 Jul 25 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y413	2444082.00	1979 Jul 27 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y414	2444082.08	1979 Jul 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y415	2444082.08	1979 Jul 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y416	2444082.12	1979 Jul 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y417	2444086.58	1979 Aug 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y418	2444087.08	1979 Aug 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y419	2444087.12	1979 Aug 01 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y423	2444089.08	1979 Aug 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y425	2444089.12	1979 Aug 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y426	2444093.58	1979 Aug 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y427	2444094.08	1979 Aug 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y428	2444094.12	1979 Aug 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y429	2444095.08	1979 Aug 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y430	2444096.08	1979 Aug 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y431	2444096.08	1979 Aug 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y432	2444096.08	1979 Aug 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W992	2444099.08	1979 Aug 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y433	2444100.12	1979 Aug 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y434	2444100.44	1979 Aug 14 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y435	2444100.58	1979 Aug 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y436	2444101.08	1979 Aug 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y440	2444103.00	1979 Aug 17 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y441	2444103.08	1979 Aug 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y442	2444106.08	1979 Aug 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	KI20,765?	-
1979-Y443	2444106.08	1979 Aug 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y444	2444107.58	1979 Aug 22 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y445	2444107.69	1979 Aug 22 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y446	2444108.08	1979 Aug 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y447	2444108.08	1979 Aug 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y448	2444109.04	1979 Aug 23 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y449	2444109.08	1979 Aug 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y450	2444110.08	1979 Aug 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y451	2444111.00	1979 Aug 25 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y452	2444114.00	1979 Aug 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y453	2444114.08	1979 Aug 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y454	2444114.52	1979 Aug 29 0030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y455	2444114.58	1979 Aug 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y456	2444115.08	1979 Aug 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y459	2444115.12	1979 Aug 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1050	2444116.00	1979 Aug 30 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y461	2444121.40	1979 Sep 04 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y462	2444121.58	1979 Sep 05 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y465	2444122.19	1979 Sep 05 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y466	2444123.00	1979 Sep 06 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y468	2444127.22	1979 Sep 10 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y469	2444128.40	1979 Sep 11 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y470	2444128.58	1979 Sep 12 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y471	2444129.08	1979 Sep 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y474	2444129.12	1979 Sep 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y478	2444131.10	1979 Sep 14 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y479	2444136.08	1979 Sep 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y480	2444136.08	1979 Sep 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y481	2444136.17	1979 Sep 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y484	2444142.45	1979 Sep 25 2250:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y485	2444142.58	1979 Sep 26 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1146	2444143.08	1979 Sep 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y489	2444149.45	1979 Oct 02 2245:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y490	2444149.58	1979 Oct 03 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y492	2444150.21	1979 Oct 03 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y493	2444156.46	1979 Oct 09 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y494	2444156.58	1979 Oct 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y496	2444157.12	1979 Oct 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y497	2444163.58	1979 Oct 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y498	2444164.08	1979 Oct 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y499	2444164.31	1979 Oct 17 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y503	2444170.43	1979 Oct 23 2220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y504	2444170.58	1979 Oct 24 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y505	2444171.08	1979 Oct 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y508	2444177.40	1979 Oct 30 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y509	2444177.58	1979 Oct 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y510	2444178.08	1979 Oct 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y514	2444179.58	1979 Nov 02 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y515	2444179.68	1979 Nov 02 0420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y517	2444180.17	1979 Nov 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y520	2444183.12	1979 Nov 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y521	2444183.17	1979 Nov 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y522	2444183.40	1979 Nov 05 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y523	2444184.69	1979 Nov 07 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y524	2444185.08	1979 Nov 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y526	2444186.21	1979 Nov 08 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y528	2444187.35	1979 Nov 09 2025:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y529	2444189.08	1979 Nov 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y530	2444189.12	1979 Nov 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y531	2444189.19	1979 Nov 11 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y532	2444189.21	1979 Nov 11 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y533	2444190.12	1979 Nov 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y534	2444190.17	1979 Nov 12 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1329	2444190.25	1979 Nov 12 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y535	2444191.08	1979 Nov 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y536	2444191.19	1979 Nov 13 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y537	2444191.24	1979 Nov 13 1740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y538	2444191.58	1979 Nov 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y539	2444192.08	1979 Nov 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1335	2444192.08	1979 Nov 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y540	2444192.15	1979 Nov 14 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y541	2444192.21	1979 Nov 14 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y543	2444192.29	1979 Nov 14 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1340	2444192.38	1979 Nov 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1342	2444193.33	1979 Nov 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y544	2444193.38	1979 Nov 15 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y545	2444193.58	1979 Nov 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y547	2444198.48	1979 Nov 20 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y548	2444198.58	1979 Nov 21 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y549	2444199.08	1979 Nov 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y552	2444200.58	1979 Nov 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y553	2444205.08	1979 Nov 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y554	2444205.12	1979 Nov 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y556	2444205.58	1979 Nov 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y557	2444206.08	1979 Nov 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y558	2444206.08	1979 Nov 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y560	2444206.19	1979 Nov 28 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y562	2444207.08	1979 Nov 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y563	2444207.12	1979 Nov 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-Y565	2444207.58	1979 Nov 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y566	2444208.08	1979 Nov 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y567	2444212.08	1979 Dec 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y569	2444212.58	1979 Dec 05 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y570	2444213.08	1979 Dec 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y571	2444213.22	1979 Dec 05 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y574	2444214.08	1979 Dec 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y576	2444214.58	1979 Dec 07 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y579	2444219.67	1979 Dec 12 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y580	2444219.99	1979 Dec 12 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y581	2444220.10	1979 Dec 12 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y582	2444220.12	1979 Dec 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1408	2444220.19	1979 Dec 12 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y583	2444220.21	1979 Dec 12 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y584	2444220.33	1979 Dec 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y586	2444221.58	1979 Dec 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y587	2444222.08	1979 Dec 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y589	2444226.62	1979 Dec 19 0250:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y590	2444227.08	1979 Dec 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y591	2444227.12	1979 Dec 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y592	2444227.19	1979 Dec 19 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y594	2444227.29	1979 Dec 19 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y595	2444227.31	1979 Dec 19 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y598	2444228.59	1979 Dec 21 0215:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W1448	2444231.92	1979 Dec 24 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y599	2444233.58	1979 Dec 26 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y600	2444234.08	1979 Dec 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y601	2444234.08	1979 Dec 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y603	2444234.22	1979 Dec 26 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y604	2444235.60	1979 Dec 28 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-Y605	2444236.08	1979 Dec 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y02	2444240.08	1980 Jan 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y03	2444240.96	1980 Jan 02 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y04	2444241.08	1980 Jan 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y05	2444241.15	1980 Jan 02 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y07	2444241.31	1980 Jan 02 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y08	2444241.79	1980 Jan 03 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y09	2444241.83	1980 Jan 03 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y10	2444242.60	1980 Jan 04 0230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y11	2444243.08	1980 Jan 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y12	2444243.12	1980 Jan 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W16	2444243.96	1980 Jan 05 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y14	2444244.00	1980 Jan 05 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y15	2444245.67	1980 Jan 07 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y16	2444246.08	1980 Jan 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y17	2444246.12	1980 Jan 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y19	2444247.62	1980 Jan 09 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y20	2444248.08	1980 Jan 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y21	2444248.08	1980 Jan 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y22	2444248.12	1980 Jan 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y23	2444249.58	1980 Jan 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y24	2444250.08	1980 Jan 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y25	2444250.12	1980 Jan 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y26	2444252.58	1980 Jan 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y27	2444253.12	1980 Jan 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y28	2444253.12	1980 Jan 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y29	2444255.08	1980 Jan 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y30	2444255.10	1980 Jan 16 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W58	2444255.17	1980 Jan 16 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y32	2444255.29	1980 Jan 16 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y34	2444256.58	1980 Jan 18 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y37	2444257.08	1980 Jan 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W67	2444257.17	1980 Jan 18 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y38	2444259.58	1980 Jan 21 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y39	2444259.79	1980 Jan 21 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y40	2444259.83	1980 Jan 21 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y41	2444260.08	1980 Jan 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y42	2444260.12	1980 Jan 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W76	2444261.62	1980 Jan 23 0250:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y46	2444261.83	1980 Jan 23 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y47	2444262.08	1980 Jan 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y48	2444262.08	1980 Jan 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y49	2444262.17	1980 Jan 23 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y50	2444263.58	1980 Jan 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y51	2444264.12	1980 Jan 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y52	2444264.15	1980 Jan 25 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y53	2444266.58	1980 Jan 28 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y54	2444267.08	1980 Jan 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y55	2444267.12	1980 Jan 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y57	2444268.58	1980 Jan 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y58	2444269.08	1980 Jan 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y59	2444269.08	1980 Jan 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y61	2444269.21	1980 Jan 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y62	2444270.58	1980 Feb 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y63	2444270.71	1980 Feb 01 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y64	2444273.58	1980 Feb 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-Y67	2444275.60	1980 Feb 06 0230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y68	2444276.08	1980 Feb 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y69	2444276.10	1980 Feb 06 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y71	2444276.19	1980 Feb 06 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y72	2444277.08	1980 Feb 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y73	2444277.58	1980 Feb 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y75	2444280.58	1980 Feb 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y76	2444282.58	1980 Feb 13 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y77	2444282.83	1980 Feb 13 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y78	2444283.08	1980 Feb 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y79	2444283.21	1980 Feb 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y82	2444284.58	1980 Feb 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y84	2444285.25	1980 Feb 15 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y85	2444285.81	1980 Feb 16 0723:00	M-100	-	ISRO 8.506	0.000	ISRO	SS	-	PRL/Pisharoty	Meteo/Eclipse	ProcInNSA48,A3	WDCRF	-
1980-Y87	2444285.96	1980 Feb 16 1105:00	M-100	-	ISRO 8.507	0.000	ISRO	SS	-	PRL/Pisharoty	Meteo/Eclipse	ProcInNSA48,A3	WDCRF	-
1980-Y88	2444289.62	1980 Feb 20 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y89	2444290.08	1980 Feb 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y91	2444290.17	1980 Feb 20 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y92	2444290.19	1980 Feb 20 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y93	2444291.60	1980 Feb 22 0225:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y94	2444295.08	1980 Feb 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y95	2444295.08	1980 Feb 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y96	2444295.12	1980 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y97	2444295.12	1980 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y98	2444295.19	1980 Feb 25 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y99	2444295.19	1980 Feb 25 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y100	2444295.24	1980 Feb 25 1750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y101	2444295.25	1980 Feb 25 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y104	2444296.10	1980 Feb 26 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y105	2444296.11	1980 Feb 26 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y106	2444296.17	1980 Feb 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y107	2444296.17	1980 Feb 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y108	2444296.23	1980 Feb 26 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y109	2444296.23	1980 Feb 26 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y110	2444296.27	1980 Feb 26 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y111	2444296.28	1980 Feb 26 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y112	2444296.69	1980 Feb 27 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y113	2444297.01	1980 Feb 27 1210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y114	2444297.08	1980 Feb 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y115	2444297.10	1980 Feb 27 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y116	2444297.11	1980 Feb 27 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y117	2444297.12	1980 Feb 27 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y118	2444297.15	1980 Feb 27 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y119	2444297.15	1980 Feb 27 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y120	2444297.23	1980 Feb 27 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y121	2444298.04	1980 Feb 28 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y122	2444298.08	1980 Feb 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y123	2444298.10	1980 Feb 28 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y124	2444298.15	1980 Feb 28 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y125	2444298.15	1980 Feb 28 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y126	2444298.21	1980 Feb 28 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y127	2444298.26	1980 Feb 28 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W203	2444298.58	1980 Feb 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y129	2444298.96	1980 Feb 29 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y130	2444298.96	1980 Feb 29 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y131	2444299.00	1980 Feb 29 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y132	2444299.06	1980 Feb 29 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y133	2444299.07	1980 Feb 29 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y134	2444299.08	1980 Feb 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y135	2444299.12	1980 Feb 29 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y137	2444299.16	1980 Feb 29 1550:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y138	2444303.67	1980 Mar 05 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y139	2444304.00	1980 Mar 05 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y140	2444304.08	1980 Mar 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y141	2444304.17	1980 Mar 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y143	2444305.08	1980 Mar 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y144	2444305.62	1980 Mar 07 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y145	2444306.21	1980 Mar 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y147	2444310.58	1980 Mar 12 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W250	2444311.08	1980 Mar 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y148	2444311.08	1980 Mar 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y152	2444317.62	1980 Mar 19 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y153	2444318.08	1980 Mar 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y154	2444318.08	1980 Mar 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y155	2444318.17	1980 Mar 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y156	2444318.21	1980 Mar 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y158	2444318.32	1980 Mar 19 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y160	2444320.08	1980 Mar 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y161	2444320.15	1980 Mar 21 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y162	2444322.12	1980 Mar 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y164	2444324.58	1980 Mar 26 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y165	2444325.08	1980 Mar 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y166	2444325.10	1980 Mar 26 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W309	2444325.14	1980 Mar 26 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y167	2444325.28	1980 Mar 26 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y169	2444325.33	1980 Mar 26 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-Y170	2444325.38	1980 Mar 26 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y174	2444328.17	1980 Mar 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y175	2444329.10	1980 Mar 30 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y178	2444331.58	1980 Apr 02 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y179	2444332.00	1980 Apr 02 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y180	2444332.08	1980 Apr 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y181	2444332.21	1980 Apr 02 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y183	2444338.58	1980 Apr 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y184	2444338.60	1980 Apr 09 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y185	2444338.75	1980 Apr 09 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y186	2444338.92	1980 Apr 09 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y187	2444339.08	1980 Apr 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y188	2444339.10	1980 Apr 09 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y189	2444339.21	1980 Apr 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y190	2444339.25	1980 Apr 09 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y192	2444339.29	1980 Apr 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y193	2444339.38	1980 Apr 09 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y194	2444339.58	1980 Apr 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y195	2444339.75	1980 Apr 10 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	ProcInNSA48,A3,506	-
1980-Y196	2444339.92	1980 Apr 10 1004:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	ProcInNSA48,A3,506	WDCRF	-
1980-Y197	2444340.08	1980 Apr 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y198	2444340.25	1980 Apr 10 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y199	2444340.38	1980 Apr 10 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y200	2444340.58	1980 Apr 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y201	2444340.75	1980 Apr 11 0600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y203	2444345.60	1980 Apr 16 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y204	2444346.17	1980 Apr 16 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y205	2444346.21	1980 Apr 16 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y206	2444352.46	1980 Apr 22 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y207	2444352.58	1980 Apr 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y208	2444353.08	1980 Apr 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y209	2444353.08	1980 Apr 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y211	2444356.12	1980 Apr 26 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y212	2444359.08	1980 Apr 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y213	2444359.17	1980 Apr 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y214	2444359.17	1980 Apr 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y215	2444359.23	1980 Apr 29 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y216	2444359.38	1980 Apr 29 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y217	2444359.58	1980 Apr 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y218	2444359.58	1980 Apr 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y219	2444359.69	1980 Apr 30 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y220	2444360.08	1980 Apr 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y222	2444360.12	1980 Apr 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y223	2444361.00	1980 May 01 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y224	2444361.19	1980 May 01 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y226	2444362.08	1980 May 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y227	2444363.12	1980 May 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y228	2444365.12	1980 May 05 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y229	2444366.00	1980 May 06 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y230	2444366.17	1980 May 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y231	2444366.38	1980 May 06 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y232	2444366.42	1980 May 06 2210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y233	2444366.58	1980 May 07 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y234	2444366.99	1980 May 07 1140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y235	2444367.00	1980 May 07 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y236	2444367.08	1980 May 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y237	2444367.12	1980 May 07 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y238	2444367.21	1980 May 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y241	2444367.40	1980 May 07 2140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y242	2444368.44	1980 May 08 2240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y243	2444369.17	1980 May 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y245	2444369.42	1980 May 09 2210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y246	2444370.12	1980 May 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y247	2444372.12	1980 May 12 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y248	2444373.12	1980 May 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y249	2444373.58	1980 May 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y250	2444374.08	1980 May 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y251	2444374.08	1980 May 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y252	2444374.12	1980 May 14 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y253	2444374.21	1980 May 14 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y257	2444376.12	1980 May 16 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y258	2444377.12	1980 May 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y259	2444379.12	1980 May 19 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y260	2444379.40	1980 May 19 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y261	2444380.00	1980 May 20 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y263	2444380.12	1980 May 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y264	2444380.12	1980 May 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y265	2444380.40	1980 May 20 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y266	2444380.60	1980 May 21 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y267	2444381.08	1980 May 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y268	2444381.12	1980 May 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y269	2444381.17	1980 May 21 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y270	2444381.21	1980 May 21 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y271	2444381.40	1980 May 21 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y272	2444382.44	1980 May 22 2240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y273	2444383.12	1980 May 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W512	2444383.39	1980 May 23 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y274	2444384.35	1980 May 24 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y275	2444385.33	1980 May 25 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y276	2444386.00	1980 May 26 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y277	2444386.04	1980 May 26 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y278	2444386.31	1980 May 26 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y281	2444387.25	1980 May 27 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W517	2444387.31	1980 May 27 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W520	2444387.61	1980 May 28 0240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y282	2444388.00	1980 May 28 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y283	2444388.04	1980 May 28 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y284	2444388.08	1980 May 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y285	2444388.08	1980 May 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y287	2444388.32	1980 May 28 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y290	2444390.29	1980 May 30 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y291	2444392.23	1980 Jun 01 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y293	2444394.04	1980 Jun 03 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y294	2444394.08	1980 Jun 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y295	2444394.58	1980 Jun 04 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y296	2444395.00	1980 Jun 04 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y297	2444395.08	1980 Jun 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y298	2444395.21	1980 Jun 04 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y299	2444395.27	1980 Jun 04 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y300	2444396.33	1980 Jun 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y302	2444397.08	1980 Jun 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y303	2444397.39	1980 Jun 06 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y304	2444401.58	1980 Jun 11 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y305	2444402.08	1980 Jun 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y308	2444402.33	1980 Jun 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y310	2444403.08	1980 Jun 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y311	2444404.08	1980 Jun 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y312	2444408.64	1980 Jun 18 0320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y313	2444409.08	1980 Jun 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y315	2444409.21	1980 Jun 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y316	2444410.08	1980 Jun 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y318	2444411.08	1980 Jun 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y319	2444415.46	1980 Jun 24 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y320	2444415.58	1980 Jun 25 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y321	2444415.59	1980 Jun 25 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y323	2444416.17	1980 Jun 25 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y324	2444417.08	1980 Jun 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y326	2444418.08	1980 Jun 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y327	2444422.58	1980 Jul 02 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y328	2444423.08	1980 Jul 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y330	2444423.31	1980 Jul 02 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y331	2444425.12	1980 Jul 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y332	2444428.08	1980 Jul 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y333	2444429.58	1980 Jul 09 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y334	2444430.08	1980 Jul 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y336	2444430.12	1980 Jul 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y337	2444430.23	1980 Jul 09 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y338	2444430.31	1980 Jul 09 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y339	2444432.08	1980 Jul 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y340	2444433.08	1980 Jul 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y341	2444435.08	1980 Jul 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y342	2444437.08	1980 Jul 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W685	2444437.08	1980 Jul 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y343	2444437.08	1980 Jul 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y345	2444437.35	1980 Jul 16 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y346	2444439.08	1980 Jul 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y347	2444439.17	1980 Jul 18 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y348	2444443.58	1980 Jul 23 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y349	2444444.08	1980 Jul 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y350	2444444.08	1980 Jul 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y352	2444444.21	1980 Jul 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y355	2444444.35	1980 Jul 23 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y356	2444446.08	1980 Jul 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W724	2444450.58	1980 Jul 30 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y358	2444451.08	1980 Jul 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y359	2444451.10	1980 Jul 30 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y360	2444451.21	1980 Jul 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y363	2444451.31	1980 Jul 30 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W743	2444457.56	1980 Aug 06 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y364	2444457.58	1980 Aug 06 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y365	2444457.62	1980 Aug 06 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y367	2444458.21	1980 Aug 06 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y369	2444464.58	1980 Aug 13 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y370	2444465.08	1980 Aug 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y371	2444465.08	1980 Aug 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y372	2444465.25	1980 Aug 13 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y373	2444465.31	1980 Aug 13 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y377	2444467.99	1980 Aug 16 1150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y378	2444471.40	1980 Aug 19 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y379	2444471.60	1980 Aug 20 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y380	2444472.08	1980 Aug 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y381	2444472.08	1980 Aug 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-Y384	2444478.33	1980 Aug 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W808	2444478.46	1980 Aug 26 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y386	2444478.59	1980 Aug 27 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y388	2444479.08	1980 Aug 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y389	2444479.08	1980 Aug 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y391	2444485.72	1980 Sep 03 0520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y392	2444486.01	1980 Sep 03 1215:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y394	2444486.08	1980 Sep 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y395	2444486.17	1980 Sep 03 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y398	2444486.33	1980 Sep 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y399	2444492.38	1980 Sep 09 2110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y400	2444492.60	1980 Sep 10 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y401	2444493.08	1980 Sep 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y402	2444493.08	1980 Sep 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y405	2444500.08	1980 Sep 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y406	2444500.08	1980 Sep 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y407	2444500.08	1980 Sep 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y409	2444500.17	1980 Sep 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y411	2444500.22	1980 Sep 17 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y413	2444506.58	1980 Sep 24 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y512	2444506.90	1980 Sep 24 0930	M-100	-	Ozone M-08-554	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	IJRSP16,25	-	-
1980-Y414	2444507.08	1980 Sep 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y415	2444507.08	1980 Sep 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y416	2444507.20	1980 Sep 24 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y513	2444507.40	1980 Sep 24 2130	M-100	-	Ozone M-08-556	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	IJRSP16,25	-	-
1980-Y418	2444513.58	1980 Oct 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y420	2444514.08	1980 Oct 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W923	2444514.08	1980 Oct 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y422	2444514.28	1980 Oct 01 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y425	2444520.58	1980 Oct 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y426	2444521.08	1980 Oct 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y427	2444521.08	1980 Oct 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y428	2444521.20	1980 Oct 08 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y434	2444527.58	1980 Oct 15 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y435	2444528.08	1980 Oct 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y436	2444528.08	1980 Oct 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y437	2444528.22	1980 Oct 15 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y438	2444528.33	1980 Oct 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y442	2444534.61	1980 Oct 22 0240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W985	2444535.08	1980 Oct 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y444	2444535.12	1980 Oct 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W987	2444535.20	1980 Oct 22 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y447	2444536.29	1980 Oct 23 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y449	2444541.58	1980 Oct 29 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y450	2444542.08	1980 Oct 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y451	2444542.08	1980 Oct 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y452	2444542.31	1980 Oct 29 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y453	2444542.69	1980 Oct 30 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y455	2444548.38	1980 Nov 04 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y456	2444548.40	1980 Nov 04 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y457	2444549.08	1980 Nov 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y458	2444549.08	1980 Nov 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y461	2444555.38	1980 Nov 11 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W1036	2444556.08	1980 Nov 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y463	2444556.12	1980 Nov 12 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y464	2444556.19	1980 Nov 12 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y466	2444562.38	1980 Nov 18 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y467	2444562.92	1980 Nov 19 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y468	2444563.05	1980 Nov 19 1310:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y469	2444563.08	1980 Nov 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y472	2444564.08	1980 Nov 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y473	2444564.85	1980 Nov 21 0820:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y474	2444568.88	1980 Nov 25 0900:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y475	2444569.38	1980 Nov 25 2100:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y476	2444570.08	1980 Nov 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y477	2444570.08	1980 Nov 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y478	2444570.17	1980 Nov 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y480	2444576.58	1980 Dec 03 0200:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y481	2444577.08	1980 Dec 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y482	2444577.09	1980 Dec 03 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y483	2444577.21	1980 Dec 03 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y484	2444578.88	1980 Dec 05 0900:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-W1103	2444583.38	1980 Dec 09 2100:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y486	2444584.04	1980 Dec 10 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y487	2444584.10	1980 Dec 10 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y488	2444584.26	1980 Dec 10 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W1109	2444585.60	1980 Dec 12 0230:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-W1110	2444585.76	1980 Dec 12 0620:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y490	2444585.93	1980 Dec 12 1020:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y493	2444590.40	1980 Dec 16 2130:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y494	2444590.59	1980 Dec 17 0210:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-W1122	2444590.69	1980 Dec 17 0430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y495	2444590.73	1980 Dec 17 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-W1123	2444590.92	1980 Dec 17 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y496	2444591.08	1980 Dec 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y497	2444591.08	1980 Dec 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W1130	2444592.48	1980 Dec 18 2330:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y501	2444597.33	1980 Dec 23 2000:00	M-100	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron	WDCRF	-	-
1980-Y502	2444597.67	1980 Dec 24 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y503	2444598.08	1980 Dec 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y504	2444598.08	1980 Dec 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y506	2444598.29	1980 Dec 24 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y507	2444604.42	1980 Dec 30 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y508	2444604.46	1980 Dec 30 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y510	2444604.58	1980 Dec 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-Y511	2444605.08	1980 Dec 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y01	2444606.33	1981 Jan 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y02	2444609.33	1981 Jan 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y03	2444610.17	1981 Jan 05 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y04	2444611.33	1981 Jan 06 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y05	2444612.08	1981 Jan 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y06	2444612.08	1981 Jan 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y07	2444612.17	1981 Jan 07 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y08	2444613.33	1981 Jan 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y09	2444614.17	1981 Jan 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y12	2444616.33	1981 Jan 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y13	2444617.17	1981 Jan 12 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y14	2444618.33	1981 Jan 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y15	2444618.58	1981 Jan 14 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W12	2444618.69	1981 Jan 14 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y16	2444619.08	1981 Jan 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y17	2444619.08	1981 Jan 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y18	2444619.12	1981 Jan 14 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y20	2444620.33	1981 Jan 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y21	2444621.12	1981 Jan 16 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y22	2444623.33	1981 Jan 18 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W21	2444624.17	1981 Jan 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y23	2444625.39	1981 Jan 20 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W25	2444625.69	1981 Jan 21 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W28	2444626.07	1981 Jan 21 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y24	2444626.08	1981 Jan 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y25	2444626.08	1981 Jan 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W29	2444626.12	1981 Jan 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y27	2444627.33	1981 Jan 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W35	2444628.12	1981 Jan 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y28	2444629.08	1981 Jan 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y29	2444630.36	1981 Jan 25 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W37	2444631.04	1981 Jan 26 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y30	2444631.17	1981 Jan 26 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y31	2444632.33	1981 Jan 27 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y32	2444632.71	1981 Jan 28 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y33	2444633.07	1981 Jan 28 1340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y34	2444633.08	1981 Jan 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y35	2444633.08	1981 Jan 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y37	2444633.42	1981 Jan 28 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y38	2444635.12	1981 Jan 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y39	2444635.42	1981 Jan 30 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y40	2444638.03	1981 Feb 02 1240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y41	2444639.04	1981 Feb 03 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y42	2444639.33	1981 Feb 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y43	2444640.08	1981 Feb 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y44	2444640.08	1981 Feb 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W52	2444640.17	1981 Feb 04 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y46	2444641.33	1981 Feb 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y47	2444642.17	1981 Feb 06 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y48	2444646.04	1981 Feb 10 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y49	2444646.33	1981 Feb 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y50	2444647.06	1981 Feb 11 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y51	2444647.08	1981 Feb 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y52	2444647.08	1981 Feb 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y55	2444648.33	1981 Feb 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y56	2444649.21	1981 Feb 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y57	2444651.06	1981 Feb 15 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y58	2444653.06	1981 Feb 17 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y59	2444653.11	1981 Feb 17 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W88	2444653.33	1981 Feb 17 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y60	2444654.06	1981 Feb 18 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y61	2444654.08	1981 Feb 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y62	2444654.08	1981 Feb 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y63	2444654.11	1981 Feb 18 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y64	2444654.29	1981 Feb 18 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y65	2444655.33	1981 Feb 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y66	2444655.40	1981 Feb 19 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y69	2444657.12	1981 Feb 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y70	2444659.12	1981 Feb 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y71	2444660.08	1981 Feb 24 1350:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y72	2444660.40	1981 Feb 24 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y73	2444661.08	1981 Feb 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y74	2444661.09	1981 Feb 25 1407:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y76	2444661.12	1981 Feb 25 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y77	2444661.17	1981 Feb 25 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y78	2444661.21	1981 Feb 25 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-Y79	2444662.35	1981 Feb 26 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y82	2444663.17	1981 Feb 27 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y84	2444665.53	1981 Mar 02 0040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W132	2444665.73	1981 Mar 02 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W139	2444667.24	1981 Mar 03 1740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y85	2444667.35	1981 Mar 03 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y86	2444668.08	1981 Mar 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y87	2444668.08	1981 Mar 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y88	2444668.19	1981 Mar 04 1640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y89	2444668.21	1981 Mar 04 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y90	2444669.33	1981 Mar 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y92	2444670.40	1981 Mar 06 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y93	2444671.17	1981 Mar 07 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W151	2444671.21	1981 Mar 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y94	2444674.33	1981 Mar 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y95	2444675.08	1981 Mar 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y96	2444675.08	1981 Mar 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y97	2444675.17	1981 Mar 11 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y98	2444676.59	1981 Mar 13 0210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y99	2444677.17	1981 Mar 13 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y100	2444681.33	1981 Mar 17 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y101	2444682.08	1981 Mar 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W176	2444682.08	1981 Mar 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y102	2444682.17	1981 Mar 18 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y103	2444683.17	1981 Mar 19 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W181	2444683.33	1981 Mar 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y104	2444683.80	1981 Mar 20 0710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y105	2444688.35	1981 Mar 24 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y107	2444689.08	1981 Mar 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y108	2444689.08	1981 Mar 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y110	2444689.18	1981 Mar 25 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W204	2444690.46	1981 Mar 26 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y112	2444691.17	1981 Mar 27 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y113	2444692.17	1981 Mar 28 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y114	2444692.22	1981 Mar 28 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y115	2444692.27	1981 Mar 28 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y116	2444693.19	1981 Mar 29 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y117	2444693.24	1981 Mar 29 1740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y118	2444693.28	1981 Mar 29 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y120	2444694.18	1981 Mar 30 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y121	2444694.23	1981 Mar 30 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y122	2444694.27	1981 Mar 30 1833:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y123	2444695.39	1981 Mar 31 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y125	2444696.08	1981 Apr 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y126	2444696.09	1981 Apr 01 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y127	2444696.11	1981 Apr 01 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y130	2444700.85	1981 Apr 06 0820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y131	2444700.94	1981 Apr 06 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y132	2444701.80	1981 Apr 07 0710:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y133	2444702.35	1981 Apr 07 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W233	2444703.08	1981 Apr 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y135	2444703.11	1981 Apr 08 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W274	2444709.33	1981 Apr 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y147	2444710.08	1981 Apr 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y148	2444710.08	1981 Apr 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y150	2444710.21	1981 Apr 15 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y152	2444716.33	1981 Apr 21 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y153	2444716.56	1981 Apr 22 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y154	2444717.08	1981 Apr 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y155	2444717.08	1981 Apr 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y158	2444719.21	1981 Apr 24 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y159	2444723.33	1981 Apr 28 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y160	2444724.08	1981 Apr 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y161	2444724.08	1981 Apr 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y163	2444724.31	1981 Apr 29 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y164	2444727.27	1981 May 02 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y165	2444728.08	1981 May 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y166	2444729.33	1981 May 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y167	2444730.33	1981 May 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y168	2444731.08	1981 May 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y169	2444731.08	1981 May 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y171	2444734.27	1981 May 09 1835:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y172	2444737.21	1981 May 12 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W336	2444737.26	1981 May 12 1810:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y173	2444737.33	1981 May 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y174	2444738.08	1981 May 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y175	2444738.08	1981 May 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y177	2444738.21	1981 May 13 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y179	2444739.25	1981 May 14 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y180	2444739.33	1981 May 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y181	2444740.08	1981 May 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y182	2444740.29	1981 May 15 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y183	2444742.12	1981 May 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y184	2444742.17	1981 May 17 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W351	2444743.21	1981 May 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W352	2444744.21	1981 May 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-Y185	2444744.25	1981 May 19 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y186	2444744.33	1981 May 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W357	2444745.08	1981 May 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y188	2444745.11	1981 May 20 1435:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y189	2444745.19	1981 May 20 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y190	2444745.21	1981 May 20 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y191	2444745.21	1981 May 20 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y192	2444745.25	1981 May 20 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y193	2444746.25	1981 May 21 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y194	2444746.61	1981 May 22 0245:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y195	2444747.19	1981 May 22 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W369	2444751.33	1981 May 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y197	2444752.08	1981 May 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W375	2444752.08	1981 May 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W377	2444752.14	1981 May 27 1515:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y199	2444752.21	1981 May 27 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y201	2444754.08	1981 May 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y202	2444758.33	1981 Jun 02 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y203	2444759.08	1981 Jun 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y204	2444759.12	1981 Jun 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y206	2444759.21	1981 Jun 03 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y207	2444761.08	1981 Jun 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y209	2444764.08	1981 Jun 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y210	2444764.12	1981 Jun 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y211	2444765.12	1981 Jun 09 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y212	2444765.33	1981 Jun 09 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y213	2444765.54	1981 Jun 10 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y214	2444765.64	1981 Jun 10 0315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y216	2444766.08	1981 Jun 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y217	2444766.08	1981 Jun 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y218	2444766.12	1981 Jun 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y219	2444766.15	1981 Jun 10 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y220	2444767.12	1981 Jun 11 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y221	2444767.29	1981 Jun 11 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y222	2444768.08	1981 Jun 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y223	2444768.21	1981 Jun 12 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y224	2444768.29	1981 Jun 12 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y225	2444769.12	1981 Jun 13 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y226	2444770.33	1981 Jun 14 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y227	2444770.38	1981 Jun 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y228	2444771.08	1981 Jun 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y229	2444771.33	1981 Jun 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y230	2444772.38	1981 Jun 16 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y231	2444772.80	1981 Jun 17 0712:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y232	2444772.88	1981 Jun 17 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y233	2444772.93	1981 Jun 17 1020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y234	2444773.04	1981 Jun 17 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y236	2444773.08	1981 Jun 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W424	2444773.08	1981 Jun 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y237	2444773.12	1981 Jun 17 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y239	2444773.46	1981 Jun 17 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y241	2444774.80	1981 Jun 19 0712:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y242	2444774.92	1981 Jun 19 1012:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y243	2444775.08	1981 Jun 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y244	2444777.29	1981 Jun 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y245	2444777.58	1981 Jun 22 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y247	2444778.86	1981 Jun 23 0840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y248	2444779.08	1981 Jun 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y249	2444779.33	1981 Jun 23 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W441	2444779.38	1981 Jun 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y250	2444780.08	1981 Jun 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y251	2444780.08	1981 Jun 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y252	2444780.12	1981 Jun 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y254	2444780.35	1981 Jun 24 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y255	2444781.08	1981 Jun 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y256	2444781.33	1981 Jun 25 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y257	2444781.38	1981 Jun 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y258	2444784.08	1981 Jun 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y259	2444786.34	1981 Jun 30 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y260	2444787.08	1981 Jul 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y261	2444787.21	1981 Jul 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y262	2444787.21	1981 Jul 01 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W464	2444787.58	1981 Jul 02 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y265	2444789.08	1981 Jul 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y266	2444792.08	1981 Jul 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y267	2444793.33	1981 Jul 07 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W473	2444793.58	1981 Jul 08 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y268	2444794.08	1981 Jul 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y269	2444794.08	1981 Jul 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y270	2444794.12	1981 Jul 08 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-A18	2444796.08	1981 Jul 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y272	2444799.08	1981 Jul 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y273	2444800.38	1981 Jul 14 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y274	2444801.08	1981 Jul 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y275	2444801.08	1981 Jul 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y276	2444801.12	1981 Jul 15 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-Y277	2444801.21	1981 Jul 15 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W492	2444803.08	1981 Jul 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y279	2444806.12	1981 Jul 20 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y280	2444807.12	1981 Jul 21 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y281	2444807.33	1981 Jul 21 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y282	2444807.35	1981 Jul 21 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y283	2444808.08	1981 Jul 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y284	2444808.12	1981 Jul 22 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y285	2444808.15	1981 Jul 22 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y287	2444809.21	1981 Jul 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W509	2444810.08	1981 Jul 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y288	2444810.17	1981 Jul 24 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y290	2444812.08	1981 Jul 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y291	2444814.33	1981 Jul 28 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y292	2444814.35	1981 Jul 28 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y293	2444814.42	1981 Jul 28 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y294	2444814.48	1981 Jul 28 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y295	2444815.08	1981 Jul 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y296	2444815.08	1981 Jul 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y297	2444815.08	1981 Jul 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y298	2444816.35	1981 Jul 30 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W523	2444817.08	1981 Jul 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y299	2444820.08	1981 Aug 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y300	2444820.81	1981 Aug 04 0720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y301	2444821.29	1981 Aug 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y302	2444821.33	1981 Aug 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y303	2444821.33	1981 Aug 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y304	2444821.42	1981 Aug 04 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y305	2444822.08	1981 Aug 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y306	2444822.08	1981 Aug 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y308	2444824.08	1981 Aug 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y310	2444828.33	1981 Aug 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y311	2444828.36	1981 Aug 11 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y312	2444829.08	1981 Aug 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y313	2444829.08	1981 Aug 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y318	2444835.33	1981 Aug 18 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y319	2444835.35	1981 Aug 18 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y320	2444836.08	1981 Aug 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y321	2444836.08	1981 Aug 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y323	2444842.33	1981 Aug 25 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y324	2444842.35	1981 Aug 25 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y325	2444843.08	1981 Aug 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y326	2444843.08	1981 Aug 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y331	2444850.08	1981 Sep 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W581	2444850.10	1981 Sep 02 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W582	2444850.17	1981 Sep 02 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y333	2444850.88	1981 Sep 03 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y334	2444850.98	1981 Sep 03 1130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y336	2444856.36	1981 Sep 08 2035:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y337	2444857.08	1981 Sep 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W597	2444857.08	1981 Sep 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y338	2444857.21	1981 Sep 09 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-A26	2444863.33	1981 Sep 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y339	2444863.40	1981 Sep 15 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y340	2444864.08	1981 Sep 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y341	2444864.29	1981 Sep 16 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y342	2444864.33	1981 Sep 16 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y343	2444865.08	1981 Sep 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y345	2444870.10	1981 Sep 22 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W626	2444870.33	1981 Sep 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y347	2444871.21	1981 Sep 23 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y348	2444871.23	1981 Sep 23 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y349	2444877.33	1981 Sep 29 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y351	2444878.08	1981 Sep 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y352	2444878.08	1981 Sep 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y353	2444878.21	1981 Sep 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y355	2444884.21	1981 Oct 06 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y356	2444884.33	1981 Oct 06 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y357	2444885.08	1981 Oct 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y358	2444885.08	1981 Oct 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y359	2444887.15	1981 Oct 09 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y360	2444891.34	1981 Oct 13 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y361	2444892.08	1981 Oct 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y362	2444892.08	1981 Oct 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y364	2444892.15	1981 Oct 14 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y365	2444892.21	1981 Oct 14 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y366	2444892.53	1981 Oct 15 0050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y368	2444898.33	1981 Oct 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y369	2444898.40	1981 Oct 20 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y370	2444898.48	1981 Oct 20 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y371	2444898.52	1981 Oct 21 0030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y372	2444899.08	1981 Oct 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y373	2444899.12	1981 Oct 21 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y376	2444905.33	1981 Oct 27 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y377	2444905.33	1981 Oct 27 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y378	2444905.40	1981 Oct 27 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W695	2444905.46	1981 Oct 27 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y379	2444906.08	1981 Oct 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y380	2444906.10	1981 Oct 28 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y382	2444911.08	1981 Nov 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y383	2444912.33	1981 Nov 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y384	2444912.51	1981 Nov 04 0010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y385	2444913.08	1981 Nov 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y386	2444913.08	1981 Nov 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y387	2444913.33	1981 Nov 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y388	2444913.62	1981 Nov 05 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y390	2444919.37	1981 Nov 10 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y391	2444919.48	1981 Nov 10 2330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y392	2444919.89	1981 Nov 11 0920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y393	2444920.08	1981 Nov 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y394	2444920.08	1981 Nov 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y395	2444920.40	1981 Nov 11 2135:00	M-100	-	Ozone M-08-621	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	IJRSP16,25	-	-
1981-Y396	2444920.90	1981 Nov 12 0930:00	M-100	-	Ozone M-08-622	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron	IJRSP16,25	-	-
1981-Y407	2444925.15	1981 Nov 16 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y408	2444926.40	1981 Nov 17 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y409	2444926.46	1981 Nov 17 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y410	2444927.08	1981 Nov 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y411	2444927.08	1981 Nov 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y412	2444931.94	1981 Nov 23 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y413	2444932.08	1981 Nov 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y415	2444933.33	1981 Nov 24 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y416	2444934.08	1981 Nov 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y417	2444934.15	1981 Nov 25 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y419	2444939.08	1981 Nov 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y450	2444938.50	1981 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1981-Y451	2444938.50	1981 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1981-Y452	2444938.50	1981 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1981-Y453	2444938.50	1981 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1981-Y420	2444940.33	1981 Dec 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y421	2444940.76	1981 Dec 02 0620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y422	2444941.08	1981 Dec 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W785	2444942.33	1981 Dec 03 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y424	2444942.71	1981 Dec 04 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y426	2444947.33	1981 Dec 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y429	2444947.96	1981 Dec 09 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W795	2444948.08	1981 Dec 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y430	2444948.08	1981 Dec 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y431	2444948.17	1981 Dec 09 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W801	2444949.33	1981 Dec 10 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y432	2444950.11	1981 Dec 11 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y434	2444954.33	1981 Dec 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y435	2444954.58	1981 Dec 16 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-W809	2444955.08	1981 Dec 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y438	2444956.33	1981 Dec 17 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y439	2444957.31	1981 Dec 18 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y440	2444961.33	1981 Dec 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y441	2444962.08	1981 Dec 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y443	2444962.35	1981 Dec 23 2020:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y444	2444963.33	1981 Dec 24 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y445	2444964.29	1981 Dec 25 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y446	2444968.33	1981 Dec 29 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y447	2444969.08	1981 Dec 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1981-Y448	2444969.67	1981 Dec 31 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y01	2444971.34	1982 Jan 01 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y02	2444973.97	1982 Jan 04 1120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y03	2444975.34	1982 Jan 05 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y04	2444975.66	1982 Jan 06 0345:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y05	2444976.10	1982 Jan 06 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y06	2444976.11	1982 Jan 06 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W11	2444977.34	1982 Jan 07 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y09	2444982.34	1982 Jan 12 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y10	2444983.10	1982 Jan 13 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y13	2444983.50	1982 Jan 14 0000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y14	2444984.08	1982 Jan 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y15	2444984.34	1982 Jan 14 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y18	2444989.29	1982 Jan 19 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y19	2444989.34	1982 Jan 19 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y20	2444989.57	1982 Jan 20 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y22	2444989.79	1982 Jan 20 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y23	2444990.08	1982 Jan 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W42	2444990.10	1982 Jan 20 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y24	2444991.34	1982 Jan 21 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y26	2444996.34	1982 Jan 26 2008:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y27	2444997.08	1982 Jan 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W67	2444997.10	1982 Jan 27 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y29	2444997.15	1982 Jan 27 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W72	2444998.34	1982 Jan 28 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y30	2444998.65	1982 Jan 29 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y33	2445003.34	1982 Feb 02 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y34	2445003.64	1982 Feb 03 0325:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y35	2445004.08	1982 Feb 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y36	2445004.10	1982 Feb 03 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y38	2445005.34	1982 Feb 04 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y39	2445009.00	1982 Feb 08 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y40	2445010.34	1982 Feb 09 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W103	2445011.00	1982 Feb 10 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y41	2445011.06	1982 Feb 10 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y42	2445011.08	1982 Feb 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y43	2445011.10	1982 Feb 10 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y44	2445011.12	1982 Feb 10 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y45	2445012.34	1982 Feb 11 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y46	2445017.34	1982 Feb 16 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y47	2445017.62	1982 Feb 17 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y48	2445018.08	1982 Feb 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y49	2445018.10	1982 Feb 17 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y50	2445019.00	1982 Feb 18 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y51	2445019.77	1982 Feb 19 0635:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y52	2445019.91	1982 Feb 19 0945:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y53	2445020.00	1982 Feb 19 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y54	2445024.38	1982 Feb 23 2105:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y55	2445024.62	1982 Feb 24 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y56	2445025.10	1982 Feb 24 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y57	2445025.12	1982 Feb 24 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W147	2445026.34	1982 Feb 25 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y63	2445031.34	1982 Mar 02 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y64	2445032.10	1982 Mar 03 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y65	2445032.12	1982 Mar 03 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y67	2445032.29	1982 Mar 03 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y68	2445033.12	1982 Mar 04 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y69	2445033.34	1982 Mar 04 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y71	2445036.08	1982 Mar 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W164	2445036.14	1982 Mar 07 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y73	2445038.34	1982 Mar 09 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y74	2445038.58	1982 Mar 10 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y75	2445039.08	1982 Mar 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y76	2445039.14	1982 Mar 10 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y78	2445039.28	1982 Mar 10 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y79	2445040.34	1982 Mar 11 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W174	2445041.21	1982 Mar 12 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y80	2445041.27	1982 Mar 12 1825:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y81	2445042.86	1982 Mar 14 0840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y82	2445044.21	1982 Mar 15 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y84	2445045.21	1982 Mar 16 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y85	2445045.34	1982 Mar 16 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y86	2445045.58	1982 Mar 17 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y87	2445046.10	1982 Mar 17 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y88	2445046.10	1982 Mar 17 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y89	2445046.21	1982 Mar 17 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y90	2445047.21	1982 Mar 18 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y91	2445047.34	1982 Mar 18 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y92	2445048.25	1982 Mar 19 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W189	2445049.29	1982 Mar 20 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y93	2445050.22	1982 Mar 21 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y96	2445051.33	1982 Mar 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y99	2445052.34	1982 Mar 23 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y100	2445052.58	1982 Mar 24 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y101	2445052.79	1982 Mar 24 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y102	2445052.94	1982 Mar 24 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y103	2445053.08	1982 Mar 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W201	2445053.10	1982 Mar 24 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y106	2445054.23	1982 Mar 25 1725:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y108	2445054.34	1982 Mar 25 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y111	2445056.17	1982 Mar 27 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y112	2445056.21	1982 Mar 27 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y114	2445057.19	1982 Mar 28 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y116	2445057.23	1982 Mar 28 1735:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y118	2445058.17	1982 Mar 29 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y119	2445058.23	1982 Mar 29 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y127	2445059.34	1982 Mar 30 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y128	2445059.57	1982 Mar 31 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W230	2445059.67	1982 Mar 31 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y129	2445060.08	1982 Mar 31 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y130	2445060.10	1982 Mar 31 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y132	2445066.33	1982 Apr 06 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y133	2445067.08	1982 Apr 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y134	2445067.08	1982 Apr 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y135	2445067.19	1982 Apr 07 1640:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y136	2445067.21	1982 Apr 07 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y137	2445067.32	1982 Apr 07 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W242	2445070.81	1982 Apr 11 0730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y138	2445073.65	1982 Apr 14 0330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y139	2445074.08	1982 Apr 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y140	2445074.08	1982 Apr 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y142	2445078.83	1982 Apr 19 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y143	2445078.88	1982 Apr 19 0900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y145	2445080.38	1982 Apr 20 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y146	2445080.83	1982 Apr 21 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y147	2445081.08	1982 Apr 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

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Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y148	2445081.08	1982 Apr 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y151	2445087.33	1982 Apr 27 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y152	2445087.92	1982 Apr 28 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y153	2445088.08	1982 Apr 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y154	2445088.08	1982 Apr 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y156	2445088.23	1982 Apr 28 1730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y158	2445088.28	1982 Apr 28 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y159	2445088.40	1982 Apr 28 2140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y160	2445092.82	1982 May 03 0740:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y161	2445094.62	1982 May 05 0250:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y162	2445095.08	1982 May 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y163	2445095.08	1982 May 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y165	2445096.73	1982 May 07 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y166	2445096.83	1982 May 07 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y167	2445101.33	1982 May 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y168	2445102.08	1982 May 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y169	2445102.08	1982 May 12 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y171	2445102.96	1982 May 13 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y173	2445108.33	1982 May 18 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y174	2445109.10	1982 May 19 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y176	2445109.21	1982 May 19 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y177	2445109.33	1982 May 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y178	2445110.08	1982 May 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y179	2445116.08	1982 May 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y180	2445116.08	1982 May 26 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W312	2445120.31	1982 May 30 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y182	2445120.36	1982 May 30 2045:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y183	2445121.35	1982 May 31 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y184	2445122.00	1982 Jun 01 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y185	2445122.33	1982 Jun 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y186	2445123.08	1982 Jun 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y187	2445123.08	1982 Jun 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y189	2445123.39	1982 Jun 02 2125:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y190	2445124.60	1982 Jun 04 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y191	2445125.08	1982 Jun 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y193	2445129.67	1982 Jun 09 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y194	2445129.83	1982 Jun 09 0800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y195	2445130.08	1982 Jun 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y196	2445130.08	1982 Jun 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y197	2445130.08	1982 Jun 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y199	2445132.08	1982 Jun 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y200	2445135.08	1982 Jun 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y201	2445136.33	1982 Jun 15 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y202	2445136.84	1982 Jun 16 0815:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y203	2445137.08	1982 Jun 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y204	2445137.24	1982 Jun 16 1750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y205	2445137.94	1982 Jun 17 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y206	2445138.06	1982 Jun 17 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y207	2445139.33	1982 Jun 18 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y208	2445144.08	1982 Jun 23 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y209	2445144.12	1982 Jun 23 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y210	2445146.10	1982 Jun 25 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y211	2445146.38	1982 Jun 25 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y220	2445150.33	1982 Jun 29 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y221	2445150.94	1982 Jun 30 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y222	2445151.10	1982 Jun 30 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y223	2445151.21	1982 Jun 30 1700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y225	2445151.38	1982 Jun 30 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y226	2445152.08	1982 Jul 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y227	2445152.15	1982 Jul 01 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y229	2445152.44	1982 Jul 01 2230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y230	2445153.10	1982 Jul 02 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y231	2445153.42	1982 Jul 02 2207:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y236	2445154.42	1982 Jul 03 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y246	2445155.42	1982 Jul 04 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y247	2445156.42	1982 Jul 05 2210:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y248	2445157.42	1982 Jul 06 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y249	2445158.08	1982 Jul 07 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y250	2445158.10	1982 Jul 07 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y252	2445158.42	1982 Jul 07 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y253	2445159.42	1982 Jul 08 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y254	2445160.10	1982 Jul 09 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y256	2445160.42	1982 Jul 09 2200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y257	2445161.41	1982 Jul 10 2150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y258	2445162.33	1982 Jul 11 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y259	2445163.29	1982 Jul 12 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y261	2445164.22	1982 Jul 13 1720:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y262	2445164.31	1982 Jul 13 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y263	2445164.33	1982 Jul 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y264	2445164.34	1982 Jul 13 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y265	2445164.60	1982 Jul 14 0230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y266	2445165.08	1982 Jul 14 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y267	2445165.10	1982 Jul 14 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y268	2445165.31	1982 Jul 14 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y269	2445167.10	1982 Jul 16 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y273	2445172.08	1982 Jul 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y274	2445172.10	1982 Jul 21 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y276	2445174.10	1982 Jul 23 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y278	2445178.34	1982 Jul 27 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y279	2445178.42	1982 Jul 27 2205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y280	2445179.08	1982 Jul 28 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y281	2445179.10	1982 Jul 28 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y282	2445179.12	1982 Jul 28 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y283	2445181.12	1982 Jul 30 1500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y284	2445186.08	1982 Aug 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y285	2445186.10	1982 Aug 04 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y288	2445188.10	1982 Aug 06 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y291	2445192.34	1982 Aug 10 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y292	2445192.62	1982 Aug 11 0300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y293	2445193.08	1982 Aug 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y294	2445193.10	1982 Aug 11 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y296	2445193.29	1982 Aug 11 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y297	2445199.34	1982 Aug 17 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y298	2445200.08	1982 Aug 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y299	2445200.10	1982 Aug 18 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y300	2445200.17	1982 Aug 18 1610:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y302	2445201.19	1982 Aug 19 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y304	2445206.34	1982 Aug 24 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y305	2445207.08	1982 Aug 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y306	2445207.10	1982 Aug 25 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y307	2445207.20	1982 Aug 25 1655:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y311	2445213.56	1982 Sep 01 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y312	2445213.58	1982 Sep 01 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y313	2445213.59	1982 Sep 01 0205:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y314	2445214.10	1982 Sep 01 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y315	2445214.29	1982 Sep 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y316	2445215.08	1982 Sep 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y317	2445220.34	1982 Sep 07 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y319	2445220.66	1982 Sep 08 0350:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y320	2445221.08	1982 Sep 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y321	2445221.10	1982 Sep 08 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y322	2445221.15	1982 Sep 08 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y324	2445222.15	1982 Sep 09 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y326	2445227.34	1982 Sep 14 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y327	2445228.08	1982 Sep 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y328	2445228.08	1982 Sep 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y329	2445228.11	1982 Sep 15 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y330	2445234.34	1982 Sep 21 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y332	2445234.67	1982 Sep 22 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y333	2445235.08	1982 Sep 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y334	2445235.10	1982 Sep 22 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y336	2445241.34	1982 Sep 28 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y337	2445241.39	1982 Sep 28 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y338	2445241.79	1982 Sep 29 0700:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y339	2445242.10	1982 Sep 29 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y341	2445243.08	1982 Sep 30 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y343	2445248.34	1982 Oct 05 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y344	2445248.40	1982 Oct 05 2130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y345	2445248.54	1982 Oct 06 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y346	2445249.08	1982 Oct 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y347	2445249.10	1982 Oct 06 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y350	2445255.33	1982 Oct 12 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y351	2445255.69	1982 Oct 13 0440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y352	2445256.08	1982 Oct 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y355	2445262.33	1982 Oct 19 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y356	2445262.70	1982 Oct 20 0450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y357	2445263.08	1982 Oct 20 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y358	2445263.10	1982 Oct 20 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y359	2445269.34	1982 Oct 26 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y360	2445269.71	1982 Oct 27 0500:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y361	2445270.08	1982 Oct 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y363	2445276.36	1982 Nov 02 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W446	2445277.00	1982 Nov 03 1200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y364	2445277.08	1982 Nov 03 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y365	2445277.10	1982 Nov 03 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y366	2445283.33	1982 Nov 09 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y367	2445283.73	1982 Nov 10 0530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W451	2445284.08	1982 Nov 10 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y368	2445284.29	1982 Nov 10 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y379	2445289.94	1982 Nov 16 1030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y384	2445290.06	1982 Nov 16 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y388	2445290.34	1982 Nov 16 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y389	2445291.08	1982 Nov 17 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y390	2445291.12	1982 Nov 17 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y391	2445297.33	1982 Nov 23 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y392	2445297.38	1982 Nov 23 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y396	2445297.97	1982 Nov 24 1120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y397	2445298.08	1982 Nov 24 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y398	2445299.08	1982 Nov 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y399	2445299.24	1982 Nov 25 1751:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y400	2445303.29	1982 Nov 29 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y440	2445302.72	1982 Nov 29 0521	M-100	-	-	0.000	ISRO	SS	-	VSSC/	Aeron	IJRSP16,215	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y401	2445304.33	1982 Nov 30 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y402	2445304.97	1982 Dec 01 1115:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y403	2445305.03	1982 Dec 01 1245:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y404	2445305.08	1982 Dec 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y405	2445305.10	1982 Dec 01 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y406	2445305.29	1982 Dec 01 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y407	2445306.08	1982 Dec 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y408	2445306.34	1982 Dec 02 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y409	2445307.18	1982 Dec 03 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y410	2445309.31	1982 Dec 05 1925:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y411	2445311.29	1982 Dec 07 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y412	2445311.34	1982 Dec 07 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y413	2445311.97	1982 Dec 08 1110:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W496	2445312.11	1982 Dec 08 1441:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y415	2445313.29	1982 Dec 09 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y416	2445313.34	1982 Dec 09 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y417	2445313.96	1982 Dec 10 1100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y418	2445314.06	1982 Dec 10 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y419	2445318.34	1982 Dec 14 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y420	2445319.08	1982 Dec 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-W501	2445319.10	1982 Dec 15 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y421	2445319.14	1982 Dec 15 1515:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y422	2445320.34	1982 Dec 16 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y423	2445320.65	1982 Dec 17 0340:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y426	2445325.34	1982 Dec 21 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y427	2445326.08	1982 Dec 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y428	2445326.16	1982 Dec 22 1545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y429	2445327.34	1982 Dec 23 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y430	2445328.09	1982 Dec 24 1410:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y431	2445332.34	1982 Dec 28 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y432	2445332.47	1982 Dec 28 2320:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y433	2445333.08	1982 Dec 29 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y434	2445333.10	1982 Dec 29 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y435	2445333.24	1982 Dec 29 1746:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y436	2445334.34	1982 Dec 30 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y437	2445334.66	1982 Dec 31 0345:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y438	2445335.25	1982 Dec 31 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1982-Y439	2445335.33	1982 Dec 31 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y01	2445338.25	1983 Jan 03 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y02	2445339.29	1983 Jan 04 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y03	2445339.33	1983 Jan 04 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y04	2445340.08	1983 Jan 05 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y05	2445340.10	1983 Jan 05 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W03	2445340.33	1983 Jan 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y07	2445341.12	1983 Jan 06 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y08	2445343.33	1983 Jan 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y09	2445344.38	1983 Jan 09 2100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y10	2445346.34	1983 Jan 11 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y11	2445347.10	1983 Jan 12 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y12	2445347.10	1983 Jan 12 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y13	2445347.12	1983 Jan 12 1455:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y14	2445347.26	1983 Jan 12 1820:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y15	2445348.17	1983 Jan 13 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y16	2445353.36	1983 Jan 18 2040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y17	2445353.54	1983 Jan 19 0100:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y18	2445354.08	1983 Jan 19 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y19	2445355.33	1983 Jan 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y20	2445355.56	1983 Jan 21 0130:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y21	2445360.33	1983 Jan 25 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y22	2445361.10	1983 Jan 26 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W22	2445361.11	1983 Jan 26 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y23	2445362.11	1983 Jan 27 1440:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y24	2445367.33	1983 Feb 01 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y25	2445368.08	1983 Feb 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y26	2445368.12	1983 Feb 02 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y27	2445371.33	1983 Feb 05 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y28	2445371.57	1983 Feb 06 0140:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y33	2445373.33	1983 Feb 07 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y34	2445373.58	1983 Feb 08 0150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y35	2445375.10	1983 Feb 09 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y36	2445375.14	1983 Feb 09 1515:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y37	2445376.10	1983 Feb 10 1417:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y40	2445381.58	1983 Feb 16 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y41	2445382.08	1983 Feb 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y42	2445382.20	1983 Feb 16 1650:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y44	2445387.29	1983 Feb 21 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W43	2445388.28	1983 Feb 22 1845:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y45	2445388.33	1983 Feb 22 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y46	2445388.39	1983 Feb 22 2120:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y48	2445389.10	1983 Feb 23 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y49	2445389.18	1983 Feb 23 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y50	2445389.19	1983 Feb 23 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y51	2445389.35	1983 Feb 23 2030:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y52	2445390.28	1983 Feb 24 1845:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y53	2445391.28	1983 Feb 25 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y54	2445392.28	1983 Feb 26 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y55	2445393.28	1983 Feb 27 1845:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y56	2445394.29	1983 Feb 28 1852:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y57	2445395.31	1983 Mar 01 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y58	2445395.34	1983 Mar 01 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W56	2445396.08	1983 Mar 02 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y59	2445396.10	1983 Mar 02 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y60	2445396.16	1983 Mar 02 1545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y61	2445396.21	1983 Mar 02 1705:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y62	2445396.29	1983 Mar 02 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y63	2445397.29	1983 Mar 03 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y64	2445397.67	1983 Mar 04 0400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y65	2445398.28	1983 Mar 04 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y66	2445399.28	1983 Mar 05 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y67	2445400.28	1983 Mar 06 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y68	2445401.28	1983 Mar 07 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y71	2445402.33	1983 Mar 08 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y72	2445402.34	1983 Mar 08 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y76	2445402.60	1983 Mar 09 0230:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y86	2445403.08	1983 Mar 09 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y87	2445403.27	1983 Mar 09 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y88	2445403.31	1983 Mar 09 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y90	2445404.27	1983 Mar 10 1835:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y91	2445405.27	1983 Mar 11 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W73	2445406.28	1983 Mar 12 1840:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y93	2445407.27	1983 Mar 13 1825:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y94	2445408.27	1983 Mar 14 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y95	2445409.27	1983 Mar 15 1830:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y96	2445409.34	1983 Mar 15 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y97	2445409.94	1983 Mar 16 1040:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W82	2445410.08	1983 Mar 16 1350:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y98	2445410.08	1983 Mar 16 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y99	2445410.10	1983 Mar 16 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y101	2445410.29	1983 Mar 16 1900:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y102	2445411.27	1983 Mar 17 1825:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y103	2445412.25	1983 Mar 18 1800:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y104	2445413.34	1983 Mar 19 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y105	2445414.28	1983 Mar 20 1850:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y106	2445415.33	1983 Mar 21 1950:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y107	2445416.34	1983 Mar 22 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y108	2445416.39	1983 Mar 22 2115:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y109	2445416.70	1983 Mar 23 0450:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y110	2445416.74	1983 Mar 23 0545:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y111	2445416.88	1983 Mar 23 0910:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y112	2445416.93	1983 Mar 23 1020:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y113	2445416.99	1983 Mar 23 1150:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y114	2445417.08	1983 Mar 23 1355:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y115	2445417.10	1983 Mar 23 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y116	2445417.10	1983 Mar 23 1430:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y117	2445417.16	1983 Mar 23 1545:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y118	2445421.92	1983 Mar 28 1000:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y119	2445421.96	1983 Mar 28 1103:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y120	2445422.12	1983 Mar 28 1500:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y121	2445422.21	1983 Mar 28 1700:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y122	2445422.25	1983 Mar 28 1805:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y124	2445422.87	1983 Mar 29 0850:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y125	2445423.34	1983 Mar 29 2015:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y126	2445424.09	1983 Mar 30 1405:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y127	2445424.10	1983 Mar 30 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y128	2445424.94	1983 Mar 31 1030:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y129	2445424.99	1983 Mar 31 1150:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y130	2445425.09	1983 Mar 31 1410:00	M-100	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1983-Y134	2445431.05	1983 Apr 06 1315:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y135	2445431.08	1983 Apr 06 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y136	2445431.10	1983 Apr 06 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y137	2445431.31	1983 Apr 06 1920:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y147	2445438.08	1983 Apr 13 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y148	2445438.10	1983 Apr 13 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y150	2445438.33	1983 Apr 13 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y151	2445439.32	1983 Apr 14 1940:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y152	2445445.10	1983 Apr 20 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y154	2445445.33	1983 Apr 20 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y155	2445445.34	1983 Apr 20 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y157	2445446.08	1983 Apr 21 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y160	2445450.33	1983 Apr 25 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y161	2445451.33	1983 Apr 26 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y162	2445452.08	1983 Apr 27 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y163	2445452.14	1983 Apr 27 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y165	2445453.17	1983 Apr 28 1600:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y166	2445458.34	1983 May 03 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y167	2445459.08	1983 May 04 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y168	2445459.10	1983 May 04 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y171	2445465.34	1983 May 10 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W148	2445466.08	1983 May 11 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y172	2445466.10	1983 May 11 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y173	2445473.08	1983 May 18 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-A22	2445473.10	1983 May 18 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y174	2445479.33	1983 May 24 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W166	2445479.81	1983 May 25 0730:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y175	2445480.08	1983 May 25 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y177	2445485.46	1983 May 30 2300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y178	2445485.58	1983 May 31 0200:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y179	2445487.08	1983 Jun 01 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y180	2445487.10	1983 Jun 01 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y182	2445487.61	1983 Jun 02 0240:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y183	2445487.68	1983 Jun 02 0425:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y184	2445489.10	1983 Jun 03 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y185	2445493.34	1983 Jun 07 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y186	2445494.08	1983 Jun 08 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y187	2445494.10	1983 Jun 08 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y188	2445494.15	1983 Jun 08 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y190	2445496.10	1983 Jun 10 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y192	2445501.04	1983 Jun 15 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y193	2445501.08	1983 Jun 15 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y194	2445501.10	1983 Jun 15 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W190	2445503.10	1983 Jun 17 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y199	2445505.06	1983 Jun 19 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y200	2445505.15	1983 Jun 19 1530:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y202	2445507.04	1983 Jun 21 1300:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y203	2445507.12	1983 Jun 21 1450:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y204	2445507.33	1983 Jun 21 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y205	2445507.60	1983 Jun 22 0220:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y206	2445508.08	1983 Jun 22 1400:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y207	2445508.15	1983 Jun 22 1540:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y215	2445510.10	1983 Jun 24 1420:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y218	2445513.91	1983 Jun 28 0945:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y219	2445513.96	1983 Jun 28 1107:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y220	2445515.10	1983 Jun 29 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y221	2445515.31	1983 Jun 29 1922:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y222	2445515.95	1983 Jun 30 1050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y224	2445517.14	1983 Jul 01 1520:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y225	2445519.92	1983 Jul 04 1000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y226	2445520.90	1983 Jul 05 0930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y228	2445521.34	1983 Jul 05 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y230	2445522.10	1983 Jul 06 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y231	2445522.15	1983 Jul 06 1533:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y232	2445522.31	1983 Jul 06 1922:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y233	2445524.10	1983 Jul 08 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y234	2445529.10	1983 Jul 13 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y235	2445531.10	1983 Jul 15 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y236	2445535.34	1983 Jul 19 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y238	2445536.10	1983 Jul 20 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y239	2445536.31	1983 Jul 20 1930:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y240	2445538.10	1983 Jul 22 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y241	2445538.16	1983 Jul 22 1545:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y242	2445538.24	1983 Jul 22 1750:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y243	2445543.10	1983 Jul 27 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y245	2445545.10	1983 Jul 29 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y247	2445549.36	1983 Aug 02 2045:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y248	2445550.13	1983 Aug 03 1511:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y249	2445551.19	1983 Aug 04 1632:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y250	2445552.26	1983 Aug 05 1811:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y251	2445553.24	1983 Aug 06 1746:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y252	2445553.30	1983 Aug 06 1919:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y253	2445554.09	1983 Aug 07 1411:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W231	2445555.27	1983 Aug 08 1825:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y254	2445557.10	1983 Aug 10 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y255	2445557.19	1983 Aug 10 1632:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y256	2445557.25	1983 Aug 10 1756:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y258	2445563.34	1983 Aug 16 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y259	2445564.10	1983 Aug 17 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y261	2445564.18	1983 Aug 17 1620:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y262	2445570.34	1983 Aug 23 2010:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y263	2445571.10	1983 Aug 24 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y264	2445571.19	1983 Aug 24 1630:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y266	2445578.10	1983 Aug 31 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y267	2445578.10	1983 Aug 31 1424:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y268	2445578.33	1983 Aug 31 2000:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y273	2445581.29	1983 Sep 03 1855:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W253	2445581.37	1983 Sep 03 2050:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y278	2445585.10	1983 Sep 07 1422:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y279	2445585.21	1983 Sep 07 1705:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y282	2445591.34	1983 Sep 13 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y283	2445591.41	1983 Sep 13 2145:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y284	2445592.08	1983 Sep 14 1354:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y285	2445598.34	1983 Sep 20 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y287	2445599.06	1983 Sep 21 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y288	2445599.10	1983 Sep 21 1430:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W282	2445605.34	1983 Sep 27 2005:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-W283	2445606.06	1983 Sep 28 1330:00	M-100	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1983-Y324	2445607.50	1983 Oct	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y325	2445607.50	1983 Oct	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y326	2445607.50	1983 Oct	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y327	2445607.50	1983 Oct	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y328	2445638.50	1983 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y329	2445638.50	1983 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y330	2445638.50	1983 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y331	2445638.50	1983 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y332	2445638.50	1983 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y333	2445668.50	1983 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y334	2445668.50	1983 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y335	2445668.50	1983 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1983-Y336	2445668.50	1983 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y137	2445699.50	1984 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y138	2445699.50	1984 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y139	2445699.50	1984 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y140	2445699.50	1984 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-S143	2445724.50	1984 Jan 25	M-100	-	-	0.000	TSAO	SS	-	TSAO/Knyazev	Aeron	GeomagAeron35,515	-	-
1984-S144	2445729.50	1984 Jan 30	M-100	-	-	0.000	TSAO	SS	-	TSAO/Knyazev	Aeron	GeomagAeron35,515	-	-
1984-Y141	2445730.50	1984 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y142	2445730.50	1984 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y143	2445730.50	1984 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y144	2445730.50	1984 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-S145	2445731.50	1984 Feb 1	M-100	-	-	0.000	TSAO	SS	-	TSAO/Knyazev	Aeron	GeomagAeron35,515	-	-
1984-Y136	2445738.94	1984 Feb 8 1039	M-100	-	-	0.000	ISRO	SS	-	VSSC/	Aeron	IJRSP16,215	Ulrich	-
1984-S146	2445746.50	1984 Feb 16	M-100	-	-	0.000	TSAO	SS	-	TSAO/Knyazev	Aeron	GeomagAeron35,515	-	-
1984-Y145	2445759.50	1984 Mar	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y146	2445759.50	1984 Mar	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y147	2445759.50	1984 Mar	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y148	2445759.50	1984 Mar	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y149	2445790.50	1984 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y150	2445790.50	1984 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y151	2445790.50	1984 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y152	2445790.50	1984 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y153	2445820.50	1984 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y154	2445820.50	1984 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y155	2445820.50	1984 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y156	2445820.50	1984 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y157	2445820.50	1984 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y158	2445851.50	1984 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y159	2445851.50	1984 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y160	2445851.50	1984 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y161	2445851.50	1984 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y162	2445881.50	1984 Jul	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y163	2445881.50	1984 Jul	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y164	2445881.50	1984 Jul	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y165	2445912.50	1984 Aug	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y166	2445912.50	1984 Aug	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y167	2445912.50	1984 Aug	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y168	2445912.50	1984 Aug	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y169	2445912.50	1984 Aug	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y170	2445943.50	1984 Sep	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y171	2445943.50	1984 Sep	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y172	2446034.50	1984 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y173	2446034.50	1984 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y174	2446034.50	1984 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1984-Y175	2446034.50	1984 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y166	2446065.50	1985 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y167	2446065.50	1985 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y168	2446065.50	1985 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y169	2446065.50	1985 Jan	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y170	2446096.50	1985 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y171	2446096.50	1985 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y172	2446096.50	1985 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y173	2446096.50	1985 Feb	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y174	2446155.50	1985 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y175	2446155.50	1985 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y176	2446155.50	1985 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y177	2446155.50	1985 Apr	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y178	2446185.50	1985 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y179	2446185.50	1985 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y180	2446185.50	1985 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y181	2446185.50	1985 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y182	2446185.50	1985 May	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y183	2446216.50	1985 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y184	2446216.50	1985 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y185	2446216.50	1985 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y186	2446216.50	1985 Jun	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1985-Y23	2446248.99	1985 Jul 02 1143:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y24	2446249.34	1985 Jul 02 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y25	2446250.10	1985 Jul 03 1422:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y26	2446250.26	1985 Jul 03 1821:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W200	2446251.22	1985 Jul 04 1710:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W201	2446251.29	1985 Jul 04 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y27	2446252.10	1985 Jul 05 1422:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y28	2446256.34	1985 Jul 09 2007:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y29	2446256.98	1985 Jul 10 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y30	2446257.08	1985 Jul 10 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W204	2446257.27	1985 Jul 10 1827:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W206	2446257.34	1985 Jul 10 2007:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y31	2446259.09	1985 Jul 12 1408:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y33	2446263.34	1985 Jul 16 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y34	2446263.98	1985 Jul 17 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y35	2446264.09	1985 Jul 17 1409:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y36	2446264.14	1985 Jul 17 1526:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y37	2446265.00	1985 Jul 18 1155:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y38	2446266.09	1985 Jul 19 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y39	2446268.98	1985 Jul 22 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y40	2446270.34	1985 Jul 23 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y41	2446270.99	1985 Jul 24 1146:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y42	2446272.98	1985 Jul 26 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y43	2446273.09	1985 Jul 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y44	2446275.98	1985 Jul 29 1133:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W218	2446277.34	1985 Jul 30 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y46	2446277.99	1985 Jul 31 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y47	2446279.98	1985 Aug 02 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y48	2446284.34	1985 Aug 06 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y49	2446284.99	1985 Aug 07 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y50	2446285.09	1985 Aug 07 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y51	2446285.09	1985 Aug 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y52	2446285.13	1985 Aug 07 1506:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y53	2446285.17	1985 Aug 07 1607:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y54	2446287.09	1985 Aug 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y55	2446291.34	1985 Aug 13 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y56	2446291.60	1985 Aug 14 0230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y57	2446291.99	1985 Aug 14 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y58	2446292.09	1985 Aug 14 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y59	2446294.09	1985 Aug 16 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y60	2446298.34	1985 Aug 20 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y61	2446299.10	1985 Aug 21 1422:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y62	2446299.99	1985 Aug 22 1142:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y63	2446300.25	1985 Aug 22 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y64	2446305.34	1985 Aug 27 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y65	2446306.09	1985 Aug 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y66	2446306.10	1985 Aug 28 1417:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y67	2446306.99	1985 Aug 29 1142:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W232	2446312.34	1985 Sep 03 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y71	2446312.99	1985 Sep 04 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W234	2446313.09	1985 Sep 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y72	2446313.09	1985 Sep 04 1414:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y73	2446319.34	1985 Sep 10 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y74	2446319.98	1985 Sep 11 1131:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y75	2446320.10	1985 Sep 11 1431:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y76	2446320.18	1985 Sep 11 1615:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y77	2446326.34	1985 Sep 17 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y78	2446326.66	1985 Sep 18 0355:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y79	2446326.98	1985 Sep 18 1125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y80	2446328.09	1985 Sep 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y81	2446333.34	1985 Sep 24 2008:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y82	2446333.78	1985 Sep 25 0644:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y83	2446333.94	1985 Sep 25 1040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y84	2446334.09	1985 Sep 25 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y85	2446340.38	1985 Oct 01 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W258	2446340.81	1985 Oct 02 0730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W259	2446340.92	1985 Oct 02 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y86	2446341.09	1985 Oct 02 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y87	2446341.09	1985 Oct 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y88	2446341.99	1985 Oct 03 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y90	2446347.38	1985 Oct 08 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y94	2446347.99	1985 Oct 09 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y95	2446348.04	1985 Oct 09 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y96	2446348.09	1985 Oct 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y97	2446354.38	1985 Oct 15 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y98	2446355.03	1985 Oct 16 1243:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W266	2446355.07	1985 Oct 16 1335:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y99	2446355.13	1985 Oct 16 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y100	2446356.09	1985 Oct 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y101	2446361.38	1985 Oct 22 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W269	2446362.09	1985 Oct 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y102	2446363.02	1985 Oct 24 1235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W270	2446363.03	1985 Oct 24 1239:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y103	2446363.24	1985 Oct 24 1749:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W277	2446369.04	1985 Oct 30 1301:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y104	2446369.10	1985 Oct 30 1426:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y105	2446369.10	1985 Oct 30 1426:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y107	2446372.99	1985 Nov 03 1152:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y108	2446374.11	1985 Nov 04 1438:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W285	2446375.11	1985 Nov 05 1433:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y109	2446375.73	1985 Nov 06 0527:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y110	2446375.96	1985 Nov 06 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y112	2446378.10	1985 Nov 08 1421:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y113	2446382.38	1985 Nov 12 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y114	2446382.97	1985 Nov 13 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y115	2446382.99	1985 Nov 13 1144:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y116	2446383.09	1985 Nov 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-Y117	2446384.94	1985 Nov 15 1030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y118	2446388.23	1985 Nov 18 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y119	2446389.04	1985 Nov 19 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y120	2446389.38	1985 Nov 19 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y121	2446390.00	1985 Nov 20 1154:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y122	2446390.02	1985 Nov 20 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y123	2446390.09	1985 Nov 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y124	2446395.08	1985 Nov 25 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y125	2446395.14	1985 Nov 25 1522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y126	2446396.38	1985 Nov 26 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y127	2446396.98	1985 Nov 27 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W306	2446397.09	1985 Nov 27 1408:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y128	2446397.19	1985 Nov 27 1632:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W308	2446398.03	1985 Nov 28 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W309	2446398.81	1985 Nov 29 0730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y129	2446399.08	1985 Nov 29 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y130	2446399.13	1985 Nov 29 1510:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W310	2446400.98	1985 Dec 01 1129:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y131	2446402.90	1985 Dec 03 0930:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W311	2446403.15	1985 Dec 03 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y132	2446403.20	1985 Dec 03 1650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y133	2446403.96	1985 Dec 04 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y134	2446404.02	1985 Dec 04 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y135	2446404.09	1985 Dec 04 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y136	2446404.14	1985 Dec 04 1522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y137	2446404.94	1985 Dec 05 1030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y138	2446405.08	1985 Dec 05 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y139	2446405.19	1985 Dec 05 1633:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y140	2446405.24	1985 Dec 05 1740:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y141	2446406.07	1985 Dec 06 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-S296	2446407.82	1985 Dec 8 0740	M-100B	-	-	0.000	AN	SU	-	-	Aeron	KI26,475	-	-
1985-S297	2446407.87	1985 Dec 8 0850	M-100B	-	-	0.000	AN	SU	-	-	Aeron	KI26,475	-	-
1985-Y142	2446410.10	1985 Dec 10 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y143	2446410.18	1985 Dec 10 1615:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y144	2446410.38	1985 Dec 10 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y145	2446410.96	1985 Dec 11 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y146	2446410.97	1985 Dec 11 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y147	2446411.08	1985 Dec 11 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y148	2446411.09	1985 Dec 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-S298	2446413.99	1985 Dec 14 1140	M-100B	-	-	0.000	AN	SU	-	-	Aeron	KI26,475	-	-
1985-S299	2446414.03	1985 Dec 14 1240	M-100B	-	-	0.000	AN	SU	-	-	Aeron	KI26,475	-	-
1985-Y149	2446414.90	1985 Dec 15 0930:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y150	2446415.17	1985 Dec 15 1602:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y151	2446415.22	1985 Dec 15 1716:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y153	2446417.38	1985 Dec 17 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y156	2446417.96	1985 Dec 18 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y157	2446418.02	1985 Dec 18 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y158	2446418.09	1985 Dec 18 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y159	2446418.10	1985 Dec 18 1422:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-W346	2446424.40	1985 Dec 24 2140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y160	2446424.97	1985 Dec 25 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y161	2446425.09	1985 Dec 25 1409:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y162	2446425.15	1985 Dec 25 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y163	2446425.97	1985 Dec 26 1119:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y164	2446429.78	1985 Dec 30 0643:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1985-Y165	2446430.38	1985 Dec 30 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y01	2446431.97	1986 Jan 01 1116:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y02	2446432.10	1986 Jan 01 1422:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y03	2446434.94	1986 Jan 04 1030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W02	2446435.20	1986 Jan 04 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y04	2446435.27	1986 Jan 04 1831:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y05	2446435.34	1986 Jan 04 2015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y06	2446435.97	1986 Jan 05 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W03	2446436.38	1986 Jan 05 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y07	2446436.97	1986 Jan 06 1120:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y08	2446438.38	1986 Jan 07 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y09	2446439.00	1986 Jan 08 1207:00	M-100B	-	STRATWARM	0.000	AN	SS	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y10	2446439.06	1986 Jan 08 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y11	2446439.10	1986 Jan 08 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y12	2446443.38	1986 Jan 12 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y13	2446443.98	1986 Jan 13 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y14	2446445.38	1986 Jan 14 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y225	2446445.97	1986 Jan 15 1115	M-100B	-	STRATWARM	0.000	AN	SS	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-W12	2446446.02	1986 Jan 15 1235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y15	2446446.12	1986 Jan 15 1446:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y16	2446446.15	1986 Jan 15 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y17	2446450.00	1986 Jan 19 1205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y226	2446450.96	1986 Jan 20 1100	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y18	2446451.00	1986 Jan 20 1205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y19	2446452.44	1986 Jan 21 2235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y20	2446453.09	1986 Jan 22 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y21	2446452.96	1986 Jan 22 1100:00	M-100B	-	STRATWARM	0.000	AN	SS	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y22	2446454.38	1986 Jan 23 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y23	2446454.46	1986 Jan 23 2305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y227	2446455.06	1986 Jan 24 1330	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y24	2446457.38	1986 Jan 26 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-Y228	2446457.99	1986 Jan 27 1144	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y25	2446459.38	1986 Jan 28 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y26	2446460.09	1986 Jan 29 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y27	2446460.12	1986 Jan 29 1449:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y28	2446460.96	1986 Jan 30 1100:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-W23	2446461.38	1986 Jan 30 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y29	2446464.38	1986 Feb 02 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y30	2446465.02	1986 Feb 03 1227:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y249	2446465.06	1986 Feb 3 1330	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y31	2446466.38	1986 Feb 04 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y32	2446466.96	1986 Feb 05 1106:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y33	2446467.02	1986 Feb 05 1235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y34	2446467.09	1986 Feb 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y35	2446472.03	1986 Feb 10 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y36	2446473.38	1986 Feb 11 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y37	2446474.03	1986 Feb 12 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y38	2446474.09	1986 Feb 12 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y39	2446475.10	1986 Feb 13 1430:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y40	2446478.38	1986 Feb 16 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y41	2446479.02	1986 Feb 17 1234:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y229	2446478.98	1986 Feb 17 1135	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-W36	2446480.38	1986 Feb 18 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W37	2446480.42	1986 Feb 18 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y42	2446481.09	1986 Feb 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y230	2446482.00	1986 Feb 20 1200	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y43	2446482.04	1986 Feb 20 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y44	2446483.07	1986 Feb 21 1347:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y45	2446485.38	1986 Feb 23 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y46	2446486.05	1986 Feb 24 1318:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y231	2446486.07	1986 Feb 24 1347	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y47	2446486.09	1986 Feb 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y48	2446488.05	1986 Feb 26 1310:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y49	2446488.09	1986 Feb 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y50	2446488.27	1986 Feb 26 1835:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y51	2446488.98	1986 Feb 27 1136:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y52	2446492.38	1986 Mar 02 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W48	2446493.08	1986 Mar 03 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y53	2446494.38	1986 Mar 04 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y54	2446494.38	1986 Mar 04 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W51	2446494.98	1986 Mar 05 1137:00	M-100B	-	STRATWARM	0.000	AN	SU	-	IITM/VSSC/Mukherjee	Aeron	IJRSP19,29	-	-
1986-Y55	2446495.06	1986 Mar 05 1325:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y56	2446495.09	1986 Mar 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S137	2446499.50	1986 Mar 10	M-100B	-	-	0.000	ISRO	SS	-	PRL/NPL/Chakrabarty	Aeron	RC97	-	-
1986-Y57	2446500.12	1986 Mar 10 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y58	2446501.38	1986 Mar 11 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y59	2446502.04	1986 Mar 12 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y60	2446502.09	1986 Mar 12 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y61	2446503.06	1986 Mar 13 1326:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y62	2446506.38	1986 Mar 16 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y63	2446507.04	1986 Mar 17 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y64	2446508.38	1986 Mar 18 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y65	2446508.99	1986 Mar 19 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y66	2446509.04	1986 Mar 19 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W64	2446509.09	1986 Mar 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y67	2446513.38	1986 Mar 23 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y68	2446514.04	1986 Mar 24 1302:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y69	2446515.38	1986 Mar 25 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y70	2446516.04	1986 Mar 26 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y71	2446516.12	1986 Mar 26 1447:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y72	2446516.98	1986 Mar 27 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y73	2446520.38	1986 Mar 30 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y74	2446521.08	1986 Mar 31 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W72	2446522.34	1986 Apr 01 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y75	2446522.98	1986 Apr 02 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y76	2446523.08	1986 Apr 02 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y77	2446523.17	1986 Apr 02 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y78	2446523.17	1986 Apr 02 1607:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y79	2446527.34	1986 Apr 06 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y80	2446528.10	1986 Apr 07 1417:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y81	2446529.42	1986 Apr 08 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y82	2446529.98	1986 Apr 09 1136:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y83	2446530.09	1986 Apr 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y84	2446530.10	1986 Apr 09 1431:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y85	2446530.16	1986 Apr 09 1545:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y86	2446534.34	1986 Apr 13 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y87	2446535.10	1986 Apr 14 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y88	2446536.34	1986 Apr 15 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y89	2446537.09	1986 Apr 16 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y90	2446537.10	1986 Apr 16 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y91	2446537.98	1986 Apr 17 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y92	2446542.09	1986 Apr 21 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W77	2446542.10	1986 Apr 21 1423:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y93	2446543.34	1986 Apr 22 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y94	2446544.11	1986 Apr 23 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y95	2446544.12	1986 Apr 23 1450:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y96	2446544.98	1986 Apr 24 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-W83	2446547.88	1986 Apr 27 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y97	2446547.93	1986 Apr 27 1020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y98	2446548.34	1986 Apr 27 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y99	2446549.12	1986 Apr 28 1446:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y100	2446549.86	1986 Apr 29 0840:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y101	2446549.91	1986 Apr 29 0946:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y102	2446550.34	1986 Apr 29 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W87	2446550.63	1986 Apr 30 0306:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y103	2446550.98	1986 Apr 30 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y104	2446551.30	1986 Apr 30 1907:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y105	2446552.83	1986 May 02 0756:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y106	2446552.88	1986 May 02 0906:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y107	2446554.83	1986 May 04 0756:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y108	2446554.88	1986 May 04 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y109	2446557.38	1986 May 06 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W90	2446557.98	1986 May 07 1136:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W91	2446558.12	1986 May 07 1456:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W92	2446558.17	1986 May 07 1607:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y110	2446564.38	1986 May 13 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y111	2446564.98	1986 May 14 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y112	2446565.15	1986 May 14 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y113	2446565.30	1986 May 14 1915:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y114	2446571.34	1986 May 20 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y115	2446571.98	1986 May 21 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W99	2446572.10	1986 May 21 1431:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W100	2446572.17	1986 May 21 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y116	2446572.88	1986 May 22 0909:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y117	2446572.94	1986 May 22 1036:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y118	2446573.00	1986 May 22 1154:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y119	2446575.83	1986 May 25 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y120	2446575.88	1986 May 25 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y121	2446577.81	1986 May 27 0720:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y122	2446578.35	1986 May 27 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y123	2446578.79	1986 May 28 0703:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y124	2446578.88	1986 May 28 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y125	2446579.15	1986 May 28 1531:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W104	2446579.25	1986 May 28 1802:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y126	2446579.84	1986 May 29 0806:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y127	2446579.90	1986 May 29 0935:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y128	2446579.99	1986 May 29 1152:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y129	2446580.78	1986 May 30 0649:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y130	2446585.34	1986 Jun 03 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y131	2446585.98	1986 Jun 04 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y132	2446586.09	1986 Jun 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y133	2446586.14	1986 Jun 04 1524:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y134	2446591.20	1986 Jun 09 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y135	2446591.29	1986 Jun 09 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y136	2446592.36	1986 Jun 10 2038:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y137	2446592.98	1986 Jun 11 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y138	2446593.09	1986 Jun 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y139	2446593.20	1986 Jun 11 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y140	2446593.29	1986 Jun 11 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y141	2446593.35	1986 Jun 11 2030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y142	2446599.34	1986 Jun 17 2010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y143	2446600.02	1986 Jun 18 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y144	2446600.13	1986 Jun 18 1501:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y145	2446600.23	1986 Jun 18 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y146	2446606.34	1986 Jun 24 2003:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y147	2446606.99	1986 Jun 25 1150:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y148	2446607.08	1986 Jun 25 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y149	2446607.09	1986 Jun 25 1412:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W117	2446609.23	1986 Jun 27 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y150	2446613.34	1986 Jul 01 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y151	2446614.09	1986 Jul 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y152	2446614.11	1986 Jul 02 1442:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W119	2446614.15	1986 Jul 02 1529:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W120	2446614.21	1986 Jul 02 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y153	2446615.07	1986 Jul 03 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y154	2446619.09	1986 Jul 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y155	2446620.34	1986 Jul 08 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y156	2446620.98	1986 Jul 09 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y157	2446621.17	1986 Jul 09 1607:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y158	2446621.21	1986 Jul 09 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y159	2446627.99	1986 Jul 16 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y160	2446628.09	1986 Jul 16 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y161	2446629.15	1986 Jul 17 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y162	2446634.34	1986 Jul 22 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y163	2446634.98	1986 Jul 23 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y164	2446635.09	1986 Jul 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y165	2446635.14	1986 Jul 23 1522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y166	2446635.21	1986 Jul 23 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y167	2446636.98	1986 Jul 25 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y168	2446637.09	1986 Jul 25 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y170	2446640.98	1986 Jul 29 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y173	2446641.34	1986 Jul 29 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y174	2446642.09	1986 Jul 30 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-Y175	2446643.98	1986 Aug 01 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y178	2446647.02	1986 Aug 04 1226:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y179	2446648.34	1986 Aug 05 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y180	2446649.02	1986 Aug 06 1235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y181	2446649.09	1986 Aug 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y182	2446649.13	1986 Aug 06 1506:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y183	2446651.12	1986 Aug 08 1447:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y184	2446652.02	1986 Aug 09 1225:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y185	2446655.34	1986 Aug 12 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y186	2446655.98	1986 Aug 13 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W137	2446656.09	1986 Aug 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y187	2446656.85	1986 Aug 14 0830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y188	2446656.95	1986 Aug 14 1045:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y189	2446657.05	1986 Aug 14 1315:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y190	2446657.24	1986 Aug 14 1740:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y191	2446659.83	1986 Aug 17 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y192	2446659.97	1986 Aug 17 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y193	2446661.83	1986 Aug 19 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y194	2446661.88	1986 Aug 19 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y195	2446661.88	1986 Aug 19 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y196	2446663.08	1986 Aug 20 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y197	2446663.12	1986 Aug 20 1453:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y198	2446663.14	1986 Aug 20 1515:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y199	2446663.17	1986 Aug 20 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y200	2446663.17	1986 Aug 20 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y201	2446668.11	1986 Aug 25 1432:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y202	2446669.34	1986 Aug 26 2015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y203	2446669.98	1986 Aug 27 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y204	2446670.11	1986 Aug 27 1436:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y205	2446670.69	1986 Aug 28 0430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y206	2446674.35	1986 Aug 31 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y207	2446675.11	1986 Sep 01 1432:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y208	2446676.50	1986 Sep 03	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y209	2446677.09	1986 Sep 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y210	2446677.10	1986 Sep 03 1417:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y211	2446683.35	1986 Sep 09 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y212	2446683.98	1986 Sep 10 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y213	2446684.09	1986 Sep 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y214	2446684.09	1986 Sep 10 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W157	2446690.34	1986 Sep 16 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y215	2446691.08	1986 Sep 17 1350:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y216	2446691.09	1986 Sep 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y217	2446691.98	1986 Sep 18 1136:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y218	2446697.34	1986 Sep 23 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y219	2446697.98	1986 Sep 24 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y220	2446698.09	1986 Sep 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-W170	2446698.10	1986 Sep 24 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y222	2446704.36	1986 Sep 30 2035:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S138	2446704.50	1986 Oct 1	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y232	2446704.50	1986 Oct 1	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S147	2446704.50	1986 Oct 1	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S157	2446710.50	1986 Oct 7	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S148	2446711.50	1986 Oct 8	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y233	2446711.50	1986 Oct 8	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S139	2446711.50	1986 Oct 8	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S158	2446717.50	1986 Oct 14	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S140	2446718.50	1986 Oct 15	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S149	2446718.50	1986 Oct 15	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S141	2446719.50	1986 Oct 16	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S159	2446724.50	1986 Oct 21	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S160	2446724.50	1986 Oct 21	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S150	2446725.50	1986 Oct 22	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S142	2446725.50	1986 Oct 22	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y234	2446725.50	1986 Oct 22	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S143	2446727.50	1986 Oct 24	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S161	2446731.50	1986 Oct 28	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-Y235	2446732.50	1986 Oct 29	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S151	2446732.50	1986 Oct 29	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S152	2446737.50	1986 Nov 3	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y236	2446737.50	1986 Nov 3	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S162	2446738.50	1986 Nov 4	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S144	2446739.50	1986 Nov 5	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S153	2446739.50	1986 Nov 5	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S163	2446745.50	1986 Nov 11	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S154	2446746.50	1986 Nov 12	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y237	2446746.50	1986 Nov 12	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-S145	2446746.50	1986 Nov 12	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S155	2446751.50	1986 Nov 17	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S164	2446752.50	1986 Nov 18	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1986-S156	2446753.50	1986 Nov 19	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-S146	2446754.50	1986 Nov 20	M-100B	-	-	0.000	AN	SU	-	-	Aeron	RC97	-	-
1986-Y238	2446734.50	1986 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-Y239	2446734.50	1986 Nov	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-Y240	2446764.50	1986 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-Y241	2446764.50	1986 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-
1986-Y242	2446764.50	1986 Dec	M-100	-	-	0.000	AN	SU	-	-	Aeron	IJRSP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-Y01	2446797.00	1987 Jan 01 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W03	2446799.12	1987 Jan 03 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y02	2446799.81	1987 Jan 04 0732:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y03	2446800.12	1987 Jan 04 1458:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y04	2446800.33	1987 Jan 04 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y05	2446802.12	1987 Jan 06 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y06	2446802.34	1987 Jan 06 2015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y07	2446802.98	1987 Jan 07 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y08	2446803.09	1987 Jan 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y09	2446803.12	1987 Jan 07 1457:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y10	2446803.15	1987 Jan 07 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W11	2446803.18	1987 Jan 07 1625:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y11	2446807.34	1987 Jan 11 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y12	2446808.25	1987 Jan 12 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y13	2446809.25	1987 Jan 13 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y14	2446809.34	1987 Jan 13 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y15	2446809.38	1987 Jan 13 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W24	2446810.06	1987 Jan 14 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y16	2446810.09	1987 Jan 14 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y17	2446810.25	1987 Jan 14 1755:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y19	2446811.25	1987 Jan 15 1755:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y21	2446812.25	1987 Jan 16 1759:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y22	2446813.21	1987 Jan 17 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y23	2446814.34	1987 Jan 18 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y26	2446816.98	1987 Jan 21 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y27	2446817.27	1987 Jan 21 1831:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y28	2446817.34	1987 Jan 21 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W33	2446818.19	1987 Jan 22 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y29	2446818.25	1987 Jan 22 1757:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y30	2446818.35	1987 Jan 22 2027:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y31	2446820.33	1987 Jan 24 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y32	2446821.25	1987 Jan 25 1802:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y33	2446821.34	1987 Jan 25 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y34	2446822.25	1987 Jan 26 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y35	2446822.30	1987 Jan 26 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y36	2446823.25	1987 Jan 27 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y37	2446823.29	1987 Jan 27 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y38	2446823.36	1987 Jan 27 2035:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y39	2446823.43	1987 Jan 27 2215:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y40	2446823.98	1987 Jan 28 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y41	2446824.09	1987 Jan 28 1404:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y42	2446824.25	1987 Jan 28 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y43	2446824.25	1987 Jan 28 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y44	2446825.25	1987 Jan 29 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y45	2446825.25	1987 Jan 29 1805:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y46	2446826.25	1987 Jan 30 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y47	2446826.25	1987 Jan 30 1806:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y48	2446827.25	1987 Jan 31 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y49	2446828.25	1987 Feb 01 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y50	2446828.25	1987 Feb 01 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y51	2446828.34	1987 Feb 01 2010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y52	2446829.25	1987 Feb 02 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y53	2446829.25	1987 Feb 02 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y54	2446830.25	1987 Feb 03 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W39	2446830.26	1987 Feb 03 1817:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y55	2446830.34	1987 Feb 03 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y56	2446831.00	1987 Feb 04 1159:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y57	2446831.08	1987 Feb 04 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W41	2446831.09	1987 Feb 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y58	2446831.25	1987 Feb 04 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y59	2446831.29	1987 Feb 04 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y60	2446832.25	1987 Feb 05 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y61	2446832.29	1987 Feb 05 1904:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y62	2446833.25	1987 Feb 06 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y63	2446833.25	1987 Feb 06 1804:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y64	2446834.25	1987 Feb 07 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y65	2446835.25	1987 Feb 08 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y66	2446835.34	1987 Feb 08 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y67	2446836.02	1987 Feb 09 1236:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y68	2446836.25	1987 Feb 09 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y69	2446837.33	1987 Feb 10 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y70	2446838.01	1987 Feb 11 1212:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y71	2446838.11	1987 Feb 11 1440:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y72	2446838.14	1987 Feb 11 1523:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y73	2446838.25	1987 Feb 11 1805:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y74	2446839.25	1987 Feb 12 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y76	2446842.34	1987 Feb 15 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y77	2446843.04	1987 Feb 16 1251:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y78	2446844.34	1987 Feb 17 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y79	2446844.98	1987 Feb 18 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y80	2446845.04	1987 Feb 18 1254:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y81	2446845.15	1987 Feb 18 1537:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y82	2446849.34	1987 Feb 22 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y83	2446850.05	1987 Feb 23 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y84	2446850.09	1987 Feb 23 1404:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y85	2446851.34	1987 Feb 24 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-Y86	2446852.03	1987 Feb 25 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W52	2446852.09	1987 Feb 25 1404:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y87	2446854.08	1987 Feb 27 1350:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y88	2446856.34	1987 Mar 01 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y89	2446857.06	1987 Mar 02 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y90	2446857.09	1987 Mar 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y91	2446858.34	1987 Mar 03 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y92	2446858.98	1987 Mar 04 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W58	2446859.06	1987 Mar 04 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W59	2446859.09	1987 Mar 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y93	2446860.02	1987 Mar 05 1226:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W63	2446862.98	1987 Mar 08 1124:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y94	2446863.38	1987 Mar 08 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y95	2446863.92	1987 Mar 09 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W64	2446864.09	1987 Mar 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y96	2446864.10	1987 Mar 09 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y97	2446865.36	1987 Mar 10 2040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y98	2446865.92	1987 Mar 11 1006:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y99	2446866.09	1987 Mar 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y100	2446866.99	1987 Mar 12 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y101	2446867.96	1987 Mar 13 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y102	2446870.34	1987 Mar 15 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y104	2446871.00	1987 Mar 16 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y105	2446871.04	1987 Mar 16 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y106	2446871.10	1987 Mar 16 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y107	2446872.34	1987 Mar 17 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y108	2446873.00	1987 Mar 18 1201:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y109	2446873.09	1987 Mar 18 1415:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y110	2446873.12	1987 Mar 18 1450:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y111	2446874.00	1987 Mar 19 1205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y112	2446874.05	1987 Mar 19 1311:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y113	2446875.00	1987 Mar 20 1203:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y114	2446878.12	1987 Mar 23 1450:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y115	2446879.34	1987 Mar 24 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y116	2446879.98	1987 Mar 25 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W79	2446880.12	1987 Mar 25 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y117	2446880.31	1987 Mar 25 1930:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y118	2446884.34	1987 Mar 29 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y119	2446885.15	1987 Mar 30 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y120	2446886.34	1987 Mar 31 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y121	2446886.92	1987 Apr 01 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W83	2446887.09	1987 Apr 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y123	2446889.98	1987 Apr 04 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y124	2446891.34	1987 Apr 05 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y125	2446892.33	1987 Apr 06 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y126	2446893.34	1987 Apr 07 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y127	2446893.84	1987 Apr 08 0810:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y128	2446894.01	1987 Apr 08 1210:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y129	2446898.34	1987 Apr 12 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y130	2446899.10	1987 Apr 13 1426:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y131	2446900.34	1987 Apr 14 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y132	2446901.10	1987 Apr 15 1428:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y133	2446901.98	1987 Apr 16 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y134	2446905.34	1987 Apr 19 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y135	2446906.06	1987 Apr 20 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y136	2446906.11	1987 Apr 20 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y137	2446906.16	1987 Apr 20 1545:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y138	2446907.34	1987 Apr 21 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y139	2446908.00	1987 Apr 22 1202:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	JATP53,875	-
1987-W106	2446908.09	1987 Apr 22 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y140	2446908.11	1987 Apr 22 1440:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y142	2446908.98	1987 Apr 23 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y144	2446912.34	1987 Apr 26 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y145	2446913.22	1987 Apr 27 1710:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y146	2446914.34	1987 Apr 28 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y147	2446914.94	1987 Apr 29 1040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y148	2446915.00	1987 Apr 29 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	JATP53,875	-
1987-Y149	2446915.11	1987 Apr 29 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y150	2446915.12	1987 Apr 29 1447:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y152	2446919.34	1987 May 03 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y153	2446920.12	1987 May 04 1454:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W122	2446921.34	1987 May 05 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y154	2446921.98	1987 May 06 1138:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y155	2446922.09	1987 May 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y156	2446922.09	1987 May 06 1415:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y158	2446926.34	1987 May 10 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y159	2446927.13	1987 May 11 1501:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y160	2446928.34	1987 May 12 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y161	2446928.98	1987 May 13 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W130	2446929.11	1987 May 13 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y162	2446929.13	1987 May 13 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y163	2446934.00	1987 May 18 1154:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y164	2446934.98	1987 May 19 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y165	2446935.34	1987 May 19 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y166	2446935.99	1987 May 20 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y167	2446936.00	1987 May 20 1207:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-W136	2446936.09	1987 May 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y168	2446936.13	1987 May 20 1511:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y169	2446936.96	1987 May 21 1108:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y170	2446940.01	1987 May 24 1210:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y171	2446940.99	1987 May 25 1142:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y172	2446942.34	1987 May 26 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y173	2446943.00	1987 May 27 1156:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W141	2446943.09	1987 May 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y174	2446943.14	1987 May 27 1516:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y175	2446943.96	1987 May 28 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W143	2446949.38	1987 Jun 02 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y176	2446949.46	1987 Jun 02 2305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y177	2446949.98	1987 Jun 03 1125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W146	2446950.09	1987 Jun 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y178	2446950.18	1987 Jun 03 1620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y179	2446956.99	1987 Jun 10 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y180	2446957.13	1987 Jun 10 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W153	2446957.14	1987 Jun 10 1526:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y182	2446957.30	1987 Jun 10 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y183	2446960.30	1987 Jun 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y184	2446963.99	1987 Jun 17 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W164	2446964.09	1987 Jun 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y185	2446964.19	1987 Jun 17 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y186	2446964.30	1987 Jun 17 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y187	2446967.30	1987 Jun 20 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y188	2446968.01	1987 Jun 21 1209:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y189	2446969.04	1987 Jun 22 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y190	2446970.98	1987 Jun 24 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y191	2446971.01	1987 Jun 24 1213:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W171	2446971.09	1987 Jun 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y192	2446971.12	1987 Jun 24 1446:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y194	2446972.27	1987 Jun 25 1830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y195	2446972.35	1987 Jun 25 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y196	2446974.30	1987 Jun 27 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W176	2446978.09	1987 Jul 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y198	2446978.15	1987 Jul 01 1534:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y199	2446978.30	1987 Jul 01 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y205	2446978.98	1987 Jul 02 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y207	2446981.30	1987 Jul 04 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y209	2446984.98	1987 Jul 08 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y211	2446985.09	1987 Jul 08 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W181	2446985.15	1987 Jul 08 1534:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y212	2446985.30	1987 Jul 08 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y214	2446988.30	1987 Jul 11 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y215	2446990.09	1987 Jul 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y228	2446991.98	1987 Jul 15 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W187	2446992.13	1987 Jul 15 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y232	2446992.14	1987 Jul 15 1526:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y233	2446992.30	1987 Jul 15 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y242	2446995.30	1987 Jul 18 1907:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y245	2446997.80	1987 Jul 21 0707:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y246	2446998.30	1987 Jul 21 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y247	2446998.98	1987 Jul 22 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y248	2446999.09	1987 Jul 22 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y249	2446999.15	1987 Jul 22 1542:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y250	2446999.24	1987 Jul 22 1740:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y251	2446999.27	1987 Jul 22 1835:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y252	2447000.98	1987 Jul 24 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y253	2447003.98	1987 Jul 27 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y254	2447004.09	1987 Jul 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y255	2447005.30	1987 Jul 28 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y256	2447005.98	1987 Jul 29 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W200	2447006.09	1987 Jul 29 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W201	2447007.20	1987 Jul 30 1645:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y257	2447007.98	1987 Jul 31 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y258	2447010.98	1987 Aug 03 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y259	2447011.09	1987 Aug 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y260	2447012.30	1987 Aug 04 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y261	2447012.98	1987 Aug 05 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y262	2447013.13	1987 Aug 05 1506:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y263	2447013.13	1987 Aug 05 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y264	2447013.17	1987 Aug 05 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y265	2447019.30	1987 Aug 11 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y266	2447019.98	1987 Aug 12 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y267	2447020.09	1987 Aug 12 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W207	2447020.19	1987 Aug 12 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y268	2447026.30	1987 Aug 18 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W213	2447027.11	1987 Aug 19 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y269	2447027.12	1987 Aug 19 1450:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y270	2447031.30	1987 Aug 23 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y271	2447032.10	1987 Aug 24 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y272	2447033.30	1987 Aug 25 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y273	2447033.98	1987 Aug 26 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y274	2447034.09	1987 Aug 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y275	2447034.10	1987 Aug 26 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y276	2447038.30	1987 Aug 30 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-Y277	2447039.17	1987 Aug 31 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y278	2447040.30	1987 Sep 01 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y279	2447040.98	1987 Sep 02 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y280	2447041.11	1987 Sep 02 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y281	2447045.30	1987 Sep 06 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W221	2447046.09	1987 Sep 07 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y283	2447047.30	1987 Sep 08 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y284	2447048.09	1987 Sep 09 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y285	2447048.09	1987 Sep 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y286	2447052.30	1987 Sep 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y287	2447052.42	1987 Sep 13 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y288	2447054.30	1987 Sep 15 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y289	2447055.07	1987 Sep 16 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y290	2447055.17	1987 Sep 16 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y291	2447061.98	1987 Sep 23 1132:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W237	2447062.07	1987 Sep 23 1334:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y292	2447062.30	1987 Sep 23 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y293	2447068.30	1987 Sep 29 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y294	2447069.06	1987 Sep 30 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y295	2447069.09	1987 Sep 30 1411:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y296	2447075.30	1987 Oct 06 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y297	2447075.98	1987 Oct 07 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y298	2447076.09	1987 Oct 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y299	2447081.30	1987 Oct 12 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y300	2447083.09	1987 Oct 14 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W252	2447083.15	1987 Oct 14 1530:00	M-100B	-	M-100B	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y301	2447083.30	1987 Oct 14 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W255	2447085.06	1987 Oct 16 1320:00	M-100B	-	M-100B	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y307	2447085.30	1987 Oct 16 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y308	2447088.02	1987 Oct 19 1235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y309	2447088.30	1987 Oct 19 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y310	2447089.98	1987 Oct 21 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W257	2447090.13	1987 Oct 21 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-A16	2447090.30	1987 Oct 21 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W258	2447091.00	1987 Oct 22 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W261	2447092.00	1987 Oct 23 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y317	2447092.02	1987 Oct 23 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y318	2447092.30	1987 Oct 23 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y319	2447092.96	1987 Oct 24 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y320	2447094.92	1987 Oct 26 1001:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y321	2447095.02	1987 Oct 26 1222:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y322	2447095.12	1987 Oct 26 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-A17	2447095.30	1987 Oct 26 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y323	2447096.00	1987 Oct 27 1204:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W264	2447096.99	1987 Oct 28 1144:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y326	2447096.99	1987 Oct 28 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y327	2447097.17	1987 Oct 28 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W265	2447097.20	1987 Oct 28 1653:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y328	2447097.30	1987 Oct 28 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y329	2447099.19	1987 Oct 30 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y330	2447099.30	1987 Oct 30 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y332	2447102.00	1987 Nov 02 1204:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y333	2447102.30	1987 Nov 02 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y334	2447104.06	1987 Nov 04 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y335	2447104.09	1987 Nov 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y336	2447104.30	1987 Nov 04 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y337	2447105.72	1987 Nov 06 0522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y338	2447106.30	1987 Nov 06 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W271	2447108.99	1987 Nov 09 1152:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y339	2447109.09	1987 Nov 09 1416:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y340	2447109.38	1987 Nov 09 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y341	2447111.07	1987 Nov 11 1335:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W273	2447111.09	1987 Nov 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W274	2447111.12	1987 Nov 11 1448:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y342	2447111.30	1987 Nov 11 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y347	2447113.04	1987 Nov 13 1258:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y348	2447113.30	1987 Nov 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W276	2447114.02	1987 Nov 14 1234:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y349	2447115.01	1987 Nov 15 1218:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W277	2447116.08	1987 Nov 16 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y350	2447116.09	1987 Nov 16 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y351	2447116.30	1987 Nov 16 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y352	2447118.17	1987 Nov 18 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y353	2447118.23	1987 Nov 18 1731:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W280	2447118.30	1987 Nov 18 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y354	2447119.98	1987 Nov 20 1132:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y355	2447120.30	1987 Nov 20 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W283	2447120.97	1987 Nov 21 1122:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y356	2447122.95	1987 Nov 23 1044:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W284	2447124.12	1987 Nov 24 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y357	2447124.30	1987 Nov 24 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y360	2447128.88	1987 Nov 29 0907:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y361	2447129.80	1987 Nov 30 0705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y362	2447130.88	1987 Dec 01 0902:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y363	2447131.30	1987 Dec 01 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W294	2447131.88	1987 Dec 02 0911:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-W295	2447131.98	1987 Dec 02 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y364	2447132.08	1987 Dec 02 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y365	2447132.64	1987 Dec 03 0320:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y366	2447133.08	1987 Dec 03 1400:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y367	2447134.64	1987 Dec 05 0320:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y368	2447134.85	1987 Dec 05 0820:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y369	2447134.91	1987 Dec 05 0950:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y370	2447135.09	1987 Dec 05 1407:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-W299	2447135.18	1987 Dec 05 1615:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y371	2447135.24	1987 Dec 05 1745:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y372	2447135.29	1987 Dec 05 1853:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y373	2447135.44	1987 Dec 05 2230:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y374	2447136.91	1987 Dec 07 0952:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-W300	2447136.92	1987 Dec 07 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y375	2447137.08	1987 Dec 07 1400:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y376	2447137.17	1987 Dec 07 1600:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y377	2447137.25	1987 Dec 07 1804:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y378	2447137.45	1987 Dec 07 2255:00	M-100B	-	-	0.000	AN	SS	-	PRL/	Aeron	WDCRF	-	-
1987-Y379	2447138.30	1987 Dec 08 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W304	2447138.93	1987 Dec 09 1017:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y380	2447139.08	1987 Dec 09 1356:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y381	2447139.12	1987 Dec 09 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y382	2447145.30	1987 Dec 15 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-W311	2447145.97	1987 Dec 16 1120:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y383	2447146.08	1987 Dec 16 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y384	2447152.30	1987 Dec 22 1910:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y385	2447152.74	1987 Dec 23 0540:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y386	2447153.09	1987 Dec 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y387	2447157.30	1987 Dec 27 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y388	2447159.30	1987 Dec 29 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y389	2447159.77	1987 Dec 30 0630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1987-Y390	2447160.09	1987 Dec 30 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y01	2447166.92	1988 Jan 06 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y02	2447167.09	1988 Jan 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y03	2447167.30	1988 Jan 06 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y04	2447171.98	1988 Jan 11 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y05	2447172.30	1988 Jan 11 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y06	2447174.04	1988 Jan 13 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y07	2447174.09	1988 Jan 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y08	2447174.10	1988 Jan 13 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y09	2447174.30	1988 Jan 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y10	2447174.39	1988 Jan 13 2125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y11	2447174.97	1988 Jan 14 1117:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y12	2447179.30	1988 Jan 18 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W04	2447179.42	1988 Jan 18 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y13	2447179.42	1988 Jan 18 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y14	2447179.55	1988 Jan 19 0105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y15	2447179.57	1988 Jan 19 0135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W05	2447179.67	1988 Jan 19 0405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y16	2447179.67	1988 Jan 19 0405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y17	2447179.80	1988 Jan 19 0705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y18	2447179.80	1988 Jan 19 0705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W06	2447179.92	1988 Jan 19 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y19	2447179.92	1988 Jan 19 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W07	2447180.05	1988 Jan 19 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y20	2447180.05	1988 Jan 19 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W08	2447180.17	1988 Jan 19 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y21	2447180.17	1988 Jan 19 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y22	2447180.30	1988 Jan 19 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y23	2447180.30	1988 Jan 19 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y24	2447181.09	1988 Jan 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y25	2447181.30	1988 Jan 20 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y26	2447181.42	1988 Jan 20 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y27	2447181.42	1988 Jan 20 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y28	2447181.55	1988 Jan 21 0105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y29	2447181.57	1988 Jan 21 0135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W11	2447181.67	1988 Jan 21 0405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y30	2447181.67	1988 Jan 21 0405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W12	2447181.80	1988 Jan 21 0705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y31	2447181.82	1988 Jan 21 0735:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y32	2447181.92	1988 Jan 21 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W15	2447182.05	1988 Jan 21 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y33	2447182.05	1988 Jan 21 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W16	2447182.17	1988 Jan 21 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y34	2447182.17	1988 Jan 21 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y35	2447182.30	1988 Jan 21 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y36	2447182.30	1988 Jan 21 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W18	2447186.04	1988 Jan 25 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y37	2447186.30	1988 Jan 25 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y38	2447187.98	1988 Jan 27 1125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W19	2447188.06	1988 Jan 27 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W20	2447188.09	1988 Jan 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y39	2447188.30	1988 Jan 27 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y40	2447188.42	1988 Jan 27 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W22	2447193.01	1988 Feb 01 1220:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W24	2447194.30	1988 Feb 02 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-Y42	2447195.02	1988 Feb 03 1222:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y43	2447195.30	1988 Feb 03 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y44	2447195.38	1988 Feb 03 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y46	2447200.30	1988 Feb 08 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y47	2447201.98	1988 Feb 10 1138:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y48	2447202.07	1988 Feb 10 1345:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y49	2447202.22	1988 Feb 10 1712:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y50	2447202.30	1988 Feb 10 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y51	2447207.06	1988 Feb 15 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y52	2447207.30	1988 Feb 15 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y53	2447209.04	1988 Feb 17 1253:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y54	2447209.30	1988 Feb 17 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y55	2447209.46	1988 Feb 17 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y56	2447214.04	1988 Feb 22 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y57	2447214.30	1988 Feb 22 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y58	2447216.04	1988 Feb 24 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W40	2447216.32	1988 Feb 24 1945:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y59	2447216.42	1988 Feb 24 2207:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y62	2447221.06	1988 Feb 29 1327:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y63	2447221.30	1988 Feb 29 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y64	2447223.06	1988 Mar 02 1331:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W50	2447223.30	1988 Mar 02 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y65	2447223.38	1988 Mar 02 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y66	2447224.00	1988 Mar 03 1156:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y67	2447229.30	1988 Mar 08 1910:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y68	2447229.98	1988 Mar 09 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W54	2447230.07	1988 Mar 09 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y69	2447230.38	1988 Mar 09 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y70	2447236.30	1988 Mar 15 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y71	2447237.07	1988 Mar 16 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y72	2447237.09	1988 Mar 16 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W59	2447237.98	1988 Mar 17 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y73	2447239.14	1988 Mar 18 1519:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y74	2447239.19	1988 Mar 18 1634:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W62	2447241.18	1988 Mar 20 1624:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y75	2447243.15	1988 Mar 22 1541:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y76	2447243.99	1988 Mar 23 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y77	2447244.08	1988 Mar 23 1356:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y78	2447244.09	1988 Mar 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y79	2447244.16	1988 Mar 23 1551:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y80	2447244.36	1988 Mar 23 2036:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y81	2447250.98	1988 Mar 30 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y82	2447251.08	1988 Mar 30 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y83	2447251.10	1988 Mar 30 1417:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y84	2447251.14	1988 Mar 30 1525:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y85	2447251.21	1988 Mar 30 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y86	2447251.34	1988 Mar 30 2005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y87	2447252.20	1988 Mar 31 1651:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y88	2447257.18	1988 Apr 05 1620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y89	2447257.90	1988 Apr 06 0930:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W73	2447257.96	1988 Apr 06 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y90	2447257.98	1988 Apr 06 1137:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y91	2447258.09	1988 Apr 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y92	2447258.15	1988 Apr 06 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y93	2447258.17	1988 Apr 06 1602:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y94	2447258.20	1988 Apr 06 1650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y95	2447258.33	1988 Apr 06 1953:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W75	2447259.17	1988 Apr 07 1604:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W79	2447263.16	1988 Apr 11 1554:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y96	2447264.18	1988 Apr 12 1615:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W82	2447264.98	1988 Apr 13 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y97	2447265.09	1988 Apr 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W84	2447265.10	1988 Apr 13 1427:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y98	2447265.30	1988 Apr 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y99	2447272.09	1988 Apr 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y100	2447272.11	1988 Apr 20 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W95	2447272.17	1988 Apr 20 1607:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y101	2447272.18	1988 Apr 20 1620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y102	2447272.30	1988 Apr 20 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y103	2447272.38	1988 Apr 20 2105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y104	2447272.98	1988 Apr 21 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y105	2447274.20	1988 Apr 22 1645:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y106	2447278.98	1988 Apr 27 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W99	2447279.08	1988 Apr 27 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y107	2447279.14	1988 Apr 27 1522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W100	2447279.17	1988 Apr 27 1609:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y108	2447279.20	1988 Apr 27 1650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y109	2447279.30	1988 Apr 27 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y110	2447282.00	1988 Apr 30 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W101	2447284.10	1988 May 02 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W102	2447285.08	1988 May 03 1358:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y111	2447285.86	1988 May 04 0842:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y112	2447285.98	1988 May 04 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y113	2447286.08	1988 May 04 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W103	2447286.08	1988 May 04 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y114	2447286.25	1988 May 04 1803:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-Y115	2447292.96	1988 May 11 1109:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y116	2447292.99	1988 May 11 1142:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y117	2447293.14	1988 May 11 1525:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y118	2447293.30	1988 May 11 1915:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W107	2447299.86	1988 May 18 0836:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y119	2447299.92	1988 May 18 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W108	2447300.15	1988 May 18 1540:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y120	2447300.25	1988 May 18 1807:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y121	2447300.99	1988 May 19 1151:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y122	2447306.96	1988 May 25 1104:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y123	2447306.98	1988 May 25 1138:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y124	2447307.27	1988 May 25 1831:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y125	2447307.33	1988 May 25 1950:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y126	2447307.35	1988 May 25 2031:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y127	2447313.85	1988 Jun 01 0831:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y128	2447313.98	1988 Jun 01 1136:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y129	2447314.08	1988 Jun 01 1354:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y130	2447314.17	1988 Jun 01 1601:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y131	2447319.09	1988 Jun 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y132	2447320.86	1988 Jun 08 0841:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y133	2447320.96	1988 Jun 08 1059:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y134	2447320.98	1988 Jun 08 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y135	2447321.17	1988 Jun 08 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y136	2447327.85	1988 Jun 15 0827:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y137	2447327.99	1988 Jun 15 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y138	2447328.18	1988 Jun 15 1620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y139	2447328.24	1988 Jun 15 1749:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y140	2447330.11	1988 Jun 17 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y141	2447333.09	1988 Jun 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y142	2447334.95	1988 Jun 22 1054:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y143	2447334.99	1988 Jun 22 1148:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y144	2447335.23	1988 Jun 22 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y145	2447335.27	1988 Jun 22 1836:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W131	2447340.09	1988 Jun 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y146	2447341.98	1988 Jun 29 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y147	2447341.99	1988 Jun 29 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y148	2447342.17	1988 Jun 29 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W133	2447342.24	1988 Jun 29 1744:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y149	2447347.09	1988 Jul 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y150	2447348.97	1988 Jul 06 1117:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y151	2447348.98	1988 Jul 06 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y152	2447349.13	1988 Jul 06 1503:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y153	2447349.27	1988 Jul 06 1832:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y154	2447354.11	1988 Jul 11 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y155	2447354.30	1988 Jul 11 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y156	2447354.38	1988 Jul 11 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y157	2447354.42	1988 Jul 11 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y158	2447354.50	1988 Jul 12 0000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y159	2447354.55	1988 Jul 12 0105:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y160	2447354.62	1988 Jul 12 0300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y161	2447354.75	1988 Jul 12 0600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y162	2447354.80	1988 Jul 12 0705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y163	2447354.88	1988 Jul 12 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y164	2447354.92	1988 Jul 12 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y165	2447355.05	1988 Jul 12 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W135	2447355.06	1988 Jul 12 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y166	2447355.09	1988 Jul 12 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y167	2447355.12	1988 Jul 12 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y168	2447355.17	1988 Jul 12 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y169	2447355.25	1988 Jul 12 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y170	2447355.38	1988 Jul 12 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y171	2447355.50	1988 Jul 13 0000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y172	2447355.62	1988 Jul 13 0300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y173	2447355.71	1988 Jul 13 0500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y174	2447355.88	1988 Jul 13 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y175	2447355.99	1988 Jul 13 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y176	2447356.00	1988 Jul 13 1200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y177	2447356.12	1988 Jul 13 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y178	2447356.24	1988 Jul 13 1739:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y179	2447356.25	1988 Jul 13 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y180	2447356.30	1988 Jul 13 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y181	2447356.42	1988 Jul 13 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y182	2447356.54	1988 Jul 14 0103:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y183	2447356.69	1988 Jul 14 0428:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y184	2447356.80	1988 Jul 14 0706:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y185	2447356.92	1988 Jul 14 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y186	2447357.13	1988 Jul 14 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y187	2447361.09	1988 Jul 18 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y188	2447362.99	1988 Jul 20 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y189	2447363.14	1988 Jul 20 1520:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y190	2447363.14	1988 Jul 20 1524:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y191	2447363.17	1988 Jul 20 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y192	2447368.09	1988 Jul 25 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y193	2447369.98	1988 Jul 27 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y194	2447370.09	1988 Jul 27 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y195	2447370.13	1988 Jul 27 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

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Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-Y196	2447370.14	1988 Jul 27 1516:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W139	2447375.09	1988 Aug 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y197	2447376.98	1988 Aug 03 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y198	2447377.09	1988 Aug 03 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y199	2447377.09	1988 Aug 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W140	2447377.33	1988 Aug 03 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y200	2447384.00	1988 Aug 10 1159:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y201	2447384.09	1988 Aug 10 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y202	2447384.09	1988 Aug 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W143	2447389.10	1988 Aug 15 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y203	2447390.98	1988 Aug 17 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y204	2447391.09	1988 Aug 17 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y205	2447391.09	1988 Aug 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W145	2447391.29	1988 Aug 17 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y206	2447398.02	1988 Aug 24 1225:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y207	2447398.09	1988 Aug 24 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W148	2447398.09	1988 Aug 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y208	2447398.16	1988 Aug 24 1550:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y210	2447404.98	1988 Aug 31 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y211	2447405.09	1988 Aug 31 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y212	2447405.09	1988 Aug 31 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y213	2447405.10	1988 Aug 31 1421:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y214	2447411.99	1988 Sep 07 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y215	2447412.09	1988 Sep 07 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y216	2447412.09	1988 Sep 07 1409:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y217	2447412.10	1988 Sep 07 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y218	2447414.60	1988 Sep 10 0230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y219	2447415.01	1988 Sep 10 1215:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y220	2447415.05	1988 Sep 10 1315:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y221	2447418.98	1988 Sep 14 1128:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W160	2447419.08	1988 Sep 14 1355:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y222	2447419.09	1988 Sep 14 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y223	2447419.09	1988 Sep 14 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y225	2447425.98	1988 Sep 21 1127:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y226	2447426.09	1988 Sep 21 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y227	2447426.09	1988 Sep 21 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W166	2447426.10	1988 Sep 21 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y228	2447432.99	1988 Sep 28 1139:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W170	2447433.09	1988 Sep 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y229	2447433.13	1988 Sep 28 1514:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y230	2447433.15	1988 Sep 28 1536:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y235	2447439.97	1988 Oct 05 1117:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y236	2447440.09	1988 Oct 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y237	2447440.13	1988 Oct 05 1510:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y238	2447440.33	1988 Oct 05 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y239	2447446.97	1988 Oct 12 1111:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y240	2447447.04	1988 Oct 12 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y241	2447447.11	1988 Oct 12 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y242	2447447.13	1988 Oct 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y243	2447453.21	1988 Oct 18 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y244	2447453.29	1988 Oct 18 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y245	2447453.96	1988 Oct 19 1107:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y246	2447454.09	1988 Oct 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y247	2447454.13	1988 Oct 19 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y248	2447460.96	1988 Oct 26 1103:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y249	2447461.09	1988 Oct 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y250	2447461.13	1988 Oct 26 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y252	2447467.96	1988 Nov 02 1101:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y253	2447468.09	1988 Nov 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y254	2447468.19	1988 Nov 02 1635:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y255	2447475.09	1988 Nov 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y256	2447475.13	1988 Nov 09 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y257	2447475.96	1988 Nov 10 1059:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W196	2447480.67	1988 Nov 15 0410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y258	2447480.73	1988 Nov 15 0530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y259	2447480.78	1988 Nov 15 0650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y260	2447481.96	1988 Nov 16 1057:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y261	2447482.09	1988 Nov 16 1414:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y262	2447482.13	1988 Nov 16 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y263	2447483.19	1988 Nov 17 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y264	2447483.23	1988 Nov 17 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y265	2447488.23	1988 Nov 22 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y266	2447488.29	1988 Nov 22 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W202	2447488.96	1988 Nov 23 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y267	2447489.09	1988 Nov 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y268	2447489.13	1988 Nov 23 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y269	2447489.35	1988 Nov 23 2030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y270	2447495.96	1988 Nov 30 1057:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y271	2447495.97	1988 Nov 30 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y272	2447496.09	1988 Nov 30 1412:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y273	2447496.13	1988 Nov 30 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y281	2447502.92	1988 Dec 07 1001:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W215	2447502.97	1988 Dec 07 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y282	2447503.13	1988 Dec 07 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y283	2447509.96	1988 Dec 14 1101:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W217	2447510.09	1988 Dec 14 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-Y284	2447510.13	1988 Dec 14 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y285	2447516.96	1988 Dec 21 1101:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y286	2447517.09	1988 Dec 21 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y287	2447517.13	1988 Dec 21 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y288	2447522.98	1988 Dec 27 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y289	2447523.96	1988 Dec 28 1108:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-Y290	2447524.09	1988 Dec 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1988-W230	2447524.13	1988 Dec 28 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y01	2447530.78	1989 Jan 04 0638:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y02	2447531.09	1989 Jan 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W07	2447531.13	1989 Jan 04 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y03	2447535.98	1989 Jan 09 1125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y04	2447537.78	1989 Jan 11 0650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W21	2447537.97	1989 Jan 11 1116:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y05	2447538.13	1989 Jan 11 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y06	2447542.99	1989 Jan 16 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y07	2447542.99	1989 Jan 16 1152:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y08	2447543.13	1989 Jan 16 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y09	2447544.08	1989 Jan 17 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y10	2447544.79	1989 Jan 18 0704:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y11	2447544.98	1989 Jan 18 1127:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y12	2447545.06	1989 Jan 18 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y13	2447545.11	1989 Jan 18 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y14	2447545.13	1989 Jan 18 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y15	2447545.21	1989 Jan 18 1707:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y16	2447547.06	1989 Jan 20 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y17	2447547.67	1989 Jan 21 0400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y18	2447549.96	1989 Jan 23 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y19	2447550.03	1989 Jan 23 1238:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y20	2447550.13	1989 Jan 23 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W33	2447550.92	1989 Jan 24 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y21	2447551.80	1989 Jan 25 0719:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y22	2447551.99	1989 Jan 25 1146:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y23	2447552.05	1989 Jan 25 1316:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W38	2447552.13	1989 Jan 25 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W40	2447552.96	1989 Jan 26 1100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y25	2447557.16	1989 Jan 30 1555:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y26	2447558.81	1989 Feb 01 0733:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y27	2447558.98	1989 Feb 01 1133:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y28	2447559.09	1989 Feb 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y29	2447559.10	1989 Feb 01 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y30	2447559.11	1989 Feb 01 1440:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y31	2447559.13	1989 Feb 01 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y32	2447559.33	1989 Feb 01 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W48	2447561.12	1989 Feb 03 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y33	2447561.13	1989 Feb 03 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y34	2447563.98	1989 Feb 06 1131:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y35	2447564.02	1989 Feb 06 1229:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y36	2447564.13	1989 Feb 06 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y37	2447565.82	1989 Feb 08 0747:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y38	2447565.98	1989 Feb 08 1131:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W51	2447566.02	1989 Feb 08 1234:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y39	2447566.14	1989 Feb 08 1527:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y40	2447566.23	1989 Feb 08 1735:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y41	2447566.35	1989 Feb 08 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y42	2447566.41	1989 Feb 08 2145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W52	2447566.86	1989 Feb 09 0840:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y43	2447568.03	1989 Feb 10 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W54	2447568.13	1989 Feb 10 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y44	2447570.98	1989 Feb 13 1133:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y45	2447571.03	1989 Feb 13 1247:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y46	2447571.13	1989 Feb 13 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y47	2447572.99	1989 Feb 15 1141:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y48	2447573.08	1989 Feb 15 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y49	2447573.09	1989 Feb 15 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y50	2447573.13	1989 Feb 15 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y51	2447573.21	1989 Feb 15 1705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y52	2447573.29	1989 Feb 15 1855:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y53	2447573.84	1989 Feb 16 0810:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y54	2447575.04	1989 Feb 17 1254:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y55	2447575.16	1989 Feb 17 1555:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y56	2447578.13	1989 Feb 20 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y57	2447578.14	1989 Feb 20 1523:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y58	2447578.22	1989 Feb 20 1720:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y59	2447578.30	1989 Feb 20 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y60	2447580.13	1989 Feb 22 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W64	2447580.14	1989 Feb 22 1525:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y61	2447580.19	1989 Feb 22 1640:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y62	2447581.91	1989 Feb 24 0945:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W67	2447582.13	1989 Feb 24 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y63	2447585.15	1989 Feb 27 1532:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y64	2447585.17	1989 Feb 27 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y65	2447586.87	1989 Mar 01 0858:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y66	2447587.09	1989 Mar 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y67	2447587.13	1989 Mar 01 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y68	2447587.20	1989 Mar 01 1650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-W72	2447587.26	1989 Mar 01 1820:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y69	2447588.10	1989 Mar 02 1417:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y70	2447588.85	1989 Mar 03 0825:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y71	2447589.29	1989 Mar 03 1903:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y72	2447593.13	1989 Mar 07 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y73	2447593.90	1989 Mar 08 0940:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y74	2447595.09	1989 Mar 09 1415:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W75	2447596.13	1989 Mar 10 1514:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W79	2447599.17	1989 Mar 13 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W85	2447601.09	1989 Mar 15 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y77	2447601.13	1989 Mar 15 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W87	2447601.16	1989 Mar 15 1545:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y78	2447601.90	1989 Mar 16 0931:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y80	2447603.07	1989 Mar 17 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y84	2447607.91	1989 Mar 22 0946:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y85	2447608.08	1989 Mar 22 1354:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y86	2447614.87	1989 Mar 29 0857:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y87	2447615.09	1989 Mar 29 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y88	2447615.09	1989 Mar 29 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y89	2447615.13	1989 Mar 29 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y90	2447620.02	1989 Apr 03 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y91	2447621.88	1989 Apr 05 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W105	2447622.13	1989 Apr 05 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y92	2447627.17	1989 Apr 10 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y93	2447629.09	1989 Apr 12 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y94	2447629.11	1989 Apr 12 1436:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y95	2447629.13	1989 Apr 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y96	2447629.97	1989 Apr 13 1123:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W110	2447635.88	1989 Apr 19 0914:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y97	2447636.13	1989 Apr 19 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y98	2447643.09	1989 Apr 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y99	2447643.13	1989 Apr 26 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y100	2447644.07	1989 Apr 27 1340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y103	2447649.89	1989 May 03 0927:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y104	2447650.12	1989 May 03 1452:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y105	2447650.13	1989 May 03 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y106	2447650.88	1989 May 04 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W124	2447650.98	1989 May 04 1133:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y116	2447656.97	1989 May 10 1120:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W137	2447657.09	1989 May 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y117	2447657.12	1989 May 10 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y118	2447657.13	1989 May 10 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y119	2447657.93	1989 May 11 1021:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y120	2447663.92	1989 May 17 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y121	2447663.96	1989 May 17 1102:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y122	2447664.13	1989 May 17 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y123	2447664.24	1989 May 17 1745:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W148	2447670.91	1989 May 24 0954:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y124	2447670.99	1989 May 24 1152:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y125	2447671.09	1989 May 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W151	2447671.13	1989 May 24 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y126	2447671.18	1989 May 24 1620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y127	2447677.94	1989 May 31 1027:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y128	2447677.97	1989 May 31 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y129	2447678.13	1989 May 31 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W153	2447678.18	1989 May 31 1621:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W154	2447679.05	1989 Jun 01 1306:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y130	2447684.92	1989 Jun 07 0958:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W159	2447684.98	1989 Jun 07 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y131	2447685.09	1989 Jun 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y132	2447685.13	1989 Jun 07 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y133	2447687.08	1989 Jun 09 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y134	2447691.92	1989 Jun 14 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W163	2447691.97	1989 Jun 14 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W165	2447692.13	1989 Jun 14 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W166	2447692.19	1989 Jun 14 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W172	2447698.92	1989 Jun 21 1008:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W173	2447698.97	1989 Jun 21 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y135	2447699.09	1989 Jun 21 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y136	2447699.13	1989 Jun 21 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y137	2447699.19	1989 Jun 21 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y138	2447703.89	1989 Jun 26 0920:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y139	2447705.92	1989 Jun 28 1010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W180	2447705.97	1989 Jun 28 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y140	2447706.13	1989 Jun 28 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W182	2447706.19	1989 Jun 28 1633:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y141	2447712.92	1989 Jul 05 1010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y142	2447712.98	1989 Jul 05 1126:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y143	2447713.09	1989 Jul 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y144	2447713.20	1989 Jul 05 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y145	2447713.28	1989 Jul 05 1840:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y146	2447718.09	1989 Jul 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y147	2447718.25	1989 Jul 10 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y148	2447718.29	1989 Jul 10 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y150	2447719.97	1989 Jul 12 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y151	2447720.13	1989 Jul 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-W183	2447720.14	1989 Jul 12 1515:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W184	2447720.19	1989 Jul 12 1628:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y152	2447720.92	1989 Jul 13 1009:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y153	2447725.09	1989 Jul 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y155	2447727.09	1989 Jul 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y156	2447727.13	1989 Jul 19 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y157	2447727.19	1989 Jul 19 1627:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y158	2447728.06	1989 Jul 20 1323:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y159	2447733.92	1989 Jul 26 1002:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y160	2447733.98	1989 Jul 26 1136:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y161	2447734.09	1989 Jul 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y162	2447734.13	1989 Jul 26 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W185	2447734.19	1989 Jul 26 1628:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W186	2447740.97	1989 Aug 02 1122:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y163	2447741.09	1989 Aug 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y164	2447741.13	1989 Aug 02 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y165	2447741.17	1989 Aug 02 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W188	2447741.91	1989 Aug 03 0949:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y168	2447747.90	1989 Aug 09 0937:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y169	2447747.97	1989 Aug 09 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y170	2447748.10	1989 Aug 09 1425:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W193	2447748.13	1989 Aug 09 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y171	2447748.17	1989 Aug 09 1611:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y174	2447754.97	1989 Aug 16 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W206	2447755.13	1989 Aug 16 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y175	2447755.16	1989 Aug 16 1550:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y176	2447755.21	1989 Aug 16 1707:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y177	2447755.36	1989 Aug 16 2040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W207	2447760.09	1989 Aug 21 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y178	2447761.95	1989 Aug 23 1047:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y179	2447761.97	1989 Aug 23 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y180	2447762.09	1989 Aug 23 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y181	2447762.13	1989 Aug 23 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y182	2447762.15	1989 Aug 23 1537:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y183	2447765.21	1989 Aug 26 1701:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y184	2447765.78	1989 Aug 27 0650:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W210	2447767.09	1989 Aug 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W211	2447768.19	1989 Aug 29 1635:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y185	2447768.28	1989 Aug 29 1845:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y186	2447768.92	1989 Aug 30 1010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W212	2447769.09	1989 Aug 30 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y187	2447769.10	1989 Aug 30 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y188	2447769.14	1989 Aug 30 1525:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y189	2447769.16	1989 Aug 30 1553:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y190	2447770.17	1989 Aug 31 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y191	2447770.79	1989 Sep 01 0700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W214	2447771.09	1989 Sep 01 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y192	2447771.17	1989 Sep 01 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W215	2447771.21	1989 Sep 01 1707:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y193	2447771.23	1989 Sep 01 1727:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y194	2447771.29	1989 Sep 01 1900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y195	2447771.32	1989 Sep 01 1940:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y196	2447774.09	1989 Sep 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W217	2447775.29	1989 Sep 05 1851:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y197	2447775.92	1989 Sep 06 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W219	2447775.97	1989 Sep 06 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y198	2447776.09	1989 Sep 06 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y199	2447776.13	1989 Sep 06 1511:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y200	2447776.16	1989 Sep 06 1553:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y201	2447778.19	1989 Sep 08 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y202	2447780.76	1989 Sep 11 0620:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y203	2447781.09	1989 Sep 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y204	2447781.17	1989 Sep 11 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y205	2447781.24	1989 Sep 11 1745:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y206	2447781.25	1989 Sep 11 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y207	2447781.33	1989 Sep 11 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W222	2447781.34	1989 Sep 11 2015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y208	2447782.85	1989 Sep 13 0824:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W223	2447782.99	1989 Sep 13 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y209	2447783.09	1989 Sep 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y210	2447783.12	1989 Sep 13 1457:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y211	2447783.42	1989 Sep 13 2205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y212	2447788.09	1989 Sep 18 1415:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y213	2447789.91	1989 Sep 20 0955:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y214	2447789.97	1989 Sep 20 1120:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y215	2447790.09	1989 Sep 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y216	2447790.11	1989 Sep 20 1443:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y217	2447790.13	1989 Sep 20 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y218	2447795.13	1989 Sep 25 1507:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y219	2447796.97	1989 Sep 27 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y220	2447797.06	1989 Sep 27 1325:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y221	2447797.09	1989 Sep 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y222	2447798.13	1989 Sep 28 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y223	2447802.09	1989 Oct 02 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y224	2447803.85	1989 Oct 04 0830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W228	2447803.97	1989 Oct 04 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-Y225	2447804.06	1989 Oct 04 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y226	2447804.09	1989 Oct 04 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y227	2447804.13	1989 Oct 04 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y228	2447805.09	1989 Oct 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y229	2447805.25	1989 Oct 05 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y230	2447805.25	1989 Oct 05 1802:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y231	2447809.09	1989 Oct 09 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W230	2447809.20	1989 Oct 09 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W231	2447809.20	1989 Oct 09 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y232	2447809.26	1989 Oct 09 1814:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W233	2447810.79	1989 Oct 11 0700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y233	2447810.79	1989 Oct 11 0700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y234	2447810.79	1989 Oct 11 0701:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y235	2447810.90	1989 Oct 11 0934:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W234	2447810.97	1989 Oct 11 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y236	2447811.09	1989 Oct 11 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y237	2447811.13	1989 Oct 11 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y238	2447811.21	1989 Oct 11 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y239	2447811.21	1989 Oct 11 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y240	2447811.33	1989 Oct 11 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y241	2447812.09	1989 Oct 12 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y242	2447812.09	1989 Oct 12 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y243	2447812.21	1989 Oct 12 1705:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y244	2447812.25	1989 Oct 12 1807:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W236	2447815.20	1989 Oct 15 1655:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y245	2447815.27	1989 Oct 15 1836:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y246	2447816.09	1989 Oct 16 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W241	2447818.03	1989 Oct 18 1237:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y247	2447818.09	1989 Oct 18 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y248	2447818.13	1989 Oct 18 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y249	2447818.23	1989 Oct 18 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y250	2447818.23	1989 Oct 18 1730:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y253	2447818.85	1989 Oct 19 0830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y254	2447820.09	1989 Oct 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y255	2447820.25	1989 Oct 20 1802:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y256	2447820.37	1989 Oct 20 2050:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y257	2447820.37	1989 Oct 20 2050:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y258	2447820.39	1989 Oct 20 2126:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y259	2447821.31	1989 Oct 21 1928:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y260	2447821.31	1989 Oct 21 1928:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y261	2447822.71	1989 Oct 23 0500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y262	2447823.09	1989 Oct 23 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y263	2447823.20	1989 Oct 23 1652:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y264	2447823.25	1989 Oct 23 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y265	2447824.83	1989 Oct 25 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y266	2447824.90	1989 Oct 25 0930:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y267	2447824.97	1989 Oct 25 1118:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y268	2447825.01	1989 Oct 25 1220:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y269	2447825.13	1989 Oct 25 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W257	2447826.25	1989 Oct 26 1800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y270	2447831.96	1989 Nov 01 1101:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y271	2447832.02	1989 Nov 01 1230:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y273	2447832.13	1989 Nov 01 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y274	2447832.21	1989 Nov 01 1709:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y275	2447838.88	1989 Nov 08 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W265	2447838.97	1989 Nov 08 1118:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y276	2447839.09	1989 Nov 08 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y277	2447839.99	1989 Nov 09 1149:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y278	2447840.13	1989 Nov 09 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y279	2447844.09	1989 Nov 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y280	2447845.85	1989 Nov 15 0830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y281	2447845.99	1989 Nov 15 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y282	2447846.09	1989 Nov 15 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y283	2447846.13	1989 Nov 15 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y284	2447851.09	1989 Nov 20 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y285	2447852.88	1989 Nov 22 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W275	2447853.04	1989 Nov 22 1300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y286	2447853.07	1989 Nov 22 1337:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y287	2447853.12	1989 Nov 22 1452:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y288	2447853.13	1989 Nov 22 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y290	2447853.94	1989 Nov 23 1040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y293	2447858.09	1989 Nov 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W288	2447859.87	1989 Nov 29 0855:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y297	2447860.09	1989 Nov 29 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y298	2447860.09	1989 Nov 29 1408:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W290	2447860.13	1989 Nov 29 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y300	2447866.97	1989 Dec 06 1118:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y301	2447867.09	1989 Dec 06 1405:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y302	2447867.13	1989 Dec 06 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y303	2447873.88	1989 Dec 13 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y304	2447874.06	1989 Dec 13 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y305	2447874.09	1989 Dec 13 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y307	2447874.13	1989 Dec 13 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y310	2447880.89	1989 Dec 20 0918:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y311	2447880.97	1989 Dec 20 1118:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-W304	2447881.12	1989 Dec 20 1500:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-Y312	2447881.17	1989 Dec 20 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y313	2447887.92	1989 Dec 27 1005:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y314	2447888.06	1989 Dec 27 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y315	2447888.09	1989 Dec 27 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1989-Y316	2447888.13	1989 Dec 27 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y01	2447894.33	1990 Jan 02 1957:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y02	2447894.35	1990 Jan 02 2027:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y03	2447894.46	1990 Jan 02 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y04	2447894.51	1990 Jan 03 0015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W03	2447894.87	1990 Jan 03 0852:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y05	2447894.97	1990 Jan 03 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y06	2447895.05	1990 Jan 03 1316:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y07	2447895.08	1990 Jan 03 1350:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y08	2447895.09	1990 Jan 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y09	2447895.09	1990 Jan 03 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y10	2447895.13	1990 Jan 03 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y11	2447895.17	1990 Jan 03 1600:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y12	2447895.36	1990 Jan 03 2045:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y13	2447895.85	1990 Jan 04 0830:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W10	2447901.34	1990 Jan 09 2010:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W11	2447901.35	1990 Jan 09 2030:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y14	2447901.46	1990 Jan 09 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W12	2447901.47	1990 Jan 09 2310:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y15	2447901.97	1990 Jan 10 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y16	2447901.98	1990 Jan 10 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y17	2447901.98	1990 Jan 10 1134:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y18	2447902.06	1990 Jan 10 1320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W16	2447902.09	1990 Jan 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W17	2447902.09	1990 Jan 10 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y19	2447902.13	1990 Jan 10 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W18	2447902.14	1990 Jan 10 1522:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W19	2447902.83	1990 Jan 11 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y25	2447906.97	1990 Jan 15 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y27	2447907.11	1990 Jan 15 1432:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y28	2447907.13	1990 Jan 15 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y35	2447908.34	1990 Jan 16 2012:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y36	2447908.46	1990 Jan 16 2301:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W24	2447908.47	1990 Jan 16 2315:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W27	2447908.92	1990 Jan 17 1000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y37	2447908.97	1990 Jan 17 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y38	2447908.98	1990 Jan 17 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W28	2447909.03	1990 Jan 17 1240:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W29	2447909.09	1990 Jan 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W30	2447909.09	1990 Jan 17 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y40	2447909.13	1990 Jan 17 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y41	2447909.19	1990 Jan 17 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y47	2447910.38	1990 Jan 18 2100:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y53	2447910.97	1990 Jan 19 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y56	2447913.97	1990 Jan 22 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y59	2447914.06	1990 Jan 22 1332:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W40	2447914.13	1990 Jan 22 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y64	2447915.37	1990 Jan 23 2054:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y66	2447915.46	1990 Jan 23 2301:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W42	2447915.47	1990 Jan 23 2310:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y67	2447915.68	1990 Jan 24 0421:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W45	2447915.83	1990 Jan 24 0800:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W47	2447915.97	1990 Jan 24 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y68	2447915.98	1990 Jan 24 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y69	2447916.06	1990 Jan 24 1330:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y70	2447916.07	1990 Jan 24 1337:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y71	2447916.09	1990 Jan 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y72	2447916.09	1990 Jan 24 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y73	2447916.13	1990 Jan 24 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W48	2447916.17	1990 Jan 24 1605:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y77	2447917.35	1990 Jan 25 2020:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W52	2447917.97	1990 Jan 26 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y84	2447921.07	1990 Jan 29 1342:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y85	2447921.13	1990 Jan 29 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y89	2447922.46	1990 Jan 30 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y90	2447922.49	1990 Jan 30 2350:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W56	2447922.70	1990 Jan 31 0445:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W57	2447922.80	1990 Jan 31 0707:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W60	2447922.88	1990 Jan 31 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y91	2447922.97	1990 Jan 31 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W61	2447922.98	1990 Jan 31 1125:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y93	2447923.07	1990 Jan 31 1347:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	ESA-SP317-381	-	-
1990-Y94	2447923.09	1990 Jan 31 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W62	2447923.12	1990 Jan 31 1453:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y95	2447923.13	1990 Jan 31 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y96	2447923.13	1990 Jan 31 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W64	2447923.13	1990 Jan 31 1510:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W65	2447923.29	1990 Jan 31 1853:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W66	2447923.47	1990 Jan 31 2320:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y99	2447924.00	1990 Feb 1 1205	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W67	2447925.05	1990 Feb 02 1305:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y106	2447927.99	1990 Feb 05 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-Y108	2447928.08	1990 Feb 05 1355:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W68	2447928.13	1990 Feb 05 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y114	2447929.33	1990 Feb 06 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y115	2447929.46	1990 Feb 06 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y116	2447929.51	1990 Feb 07 0015:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W70	2447929.72	1990 Feb 07 0520:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W71	2447929.88	1990 Feb 07 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y117	2447930.09	1990 Feb 07 1408:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y118	2447930.09	1990 Feb 07 1410:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	ESA-SP317-381	-	-
1990-W72	2447930.14	1990 Feb 7 1520	M-100B	-	-	0.000	AN	SU	-	-	Aeron	ESA-SP317-381	-	-
1990-Y119	2447930.30	1990 Feb 07 1905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y122	2447930.97	1990 Feb 08 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y129	2447931.97	1990 Feb 09 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y131	2447935.03	1990 Feb 12 1250:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y132	2447935.13	1990 Feb 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y133	2447935.13	1990 Feb 12 1510:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y137	2447936.33	1990 Feb 13 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y138	2447936.47	1990 Feb 13 2310:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W78	2447936.88	1990 Feb 14 0900:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y139	2447936.99	1990 Feb 14 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W81	2447937.10	1990 Feb 14 1431:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y140	2447937.13	1990 Feb 14 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y141	2447937.13	1990 Feb 14 1512:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y146	2447938.97	1990 Feb 16 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y151	2447941.99	1990 Feb 19 1140:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y152	2447942.09	1990 Feb 19 1416:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y153	2447942.13	1990 Feb 19 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y165	2447943.34	1990 Feb 20 2016:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W84	2447943.47	1990 Feb 20 2310:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W87	2447943.62	1990 Feb 21 0254:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W88	2447943.79	1990 Feb 21 0652:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W90	2447943.95	1990 Feb 21 1053:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W91	2447943.97	1990 Feb 21 1118:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y166	2447943.97	1990 Feb 21 1122:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W92	2447944.09	1990 Feb 21 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y167	2447944.10	1990 Feb 21 1420:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W93	2447944.12	1990 Feb 21 1457:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y168	2447944.17	1990 Feb 21 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W94	2447944.29	1990 Feb 21 1855:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W95	2447944.52	1990 Feb 22 0032:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y175	2447945.97	1990 Feb 23 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y182	2447948.98	1990 Feb 26 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W97	2447949.11	1990 Feb 26 1440	M-100B	-	-	0.000	AN	SU	-	-	Aeron	ESA-SP317-381	-	-
1990-A02	2447949.13	1990 Feb 26 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y187	2447950.34	1990 Feb 27 2004:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y188	2447950.46	1990 Feb 27 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W100	2447950.89	1990 Feb 28 0925:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y189	2447950.97	1990 Feb 28 1110	M-100B	-	-	0.000	AN	SU	-	-	Aeron	ESA-SP317-381	-	-
1990-Y190	2447951.09	1990 Feb 28 1409:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W101	2447951.13	1990 Feb 28 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W102	2447951.15	1990 Feb 28 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y197	2447952.98	1990 Mar 02 1135:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W106	2447956.11	1990 Mar 05 1435:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W107	2447956.13	1990 Mar 05 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W108	2447957.31	1990 Mar 06 1920:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y213	2447957.46	1990 Mar 06 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W111	2447957.97	1990 Mar 07 1110:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W112	2447958.09	1990 Mar 07 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W113	2447958.11	1990 Mar 07 1437:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y214	2447958.13	1990 Mar 07 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W116	2447961.63	1990 Mar 11 0303:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W117	2447961.67	1990 Mar 11 0409:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W118	2447961.79	1990 Mar 11 0703:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W119	2447961.95	1990 Mar 11 1055:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W121	2447962.12	1990 Mar 11 1455:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W122	2447962.29	1990 Mar 11 1857:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W123	2447962.45	1990 Mar 11 2255:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y240	2447963.08	1990 Mar 12 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W124	2447963.12	1990 Mar 12 1452:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y241	2447963.13	1990 Mar 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y244	2447963.58	1990 Mar 13 0200:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W125	2447964.33	1990 Mar 13 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y253	2447965.12	1990 Mar 14 1453:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W128	2447965.13	1990 Mar 14 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y258	2447971.32	1990 Mar 20 1940:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y259	2447971.46	1990 Mar 20 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W129	2447971.89	1990 Mar 21 0925:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W131	2447972.09	1990 Mar 21 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W132	2447972.10	1990 Mar 21 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y260	2447978.33	1990 Mar 27 1955:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y261	2447978.46	1990 Mar 27 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W134	2447978.93	1990 Mar 28 1025:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y263	2447979.09	1990 Mar 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y264	2447979.13	1990 Mar 28 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y265	2447979.15	1990 Mar 28 1530:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y271	2448136.00	1990 Sep 01 1205:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-Y280	2448198.25	1990 Nov 02 1753:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y281	2448201.97	1990 Nov 06 1115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y282	2448202.10	1990 Nov 06 1425:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y283	2448202.46	1990 Nov 06 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y284	2448202.98	1990 Nov 07 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y285	2448203.13	1990 Nov 07 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y286	2448205.21	1990 Nov 09 1700:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y287	2448209.46	1990 Nov 13 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y288	2448209.98	1990 Nov 14 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y289	2448209.99	1990 Nov 14 1145:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y290	2448210.13	1990 Nov 14 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y291	2448210.17	1990 Nov 14 1610:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y292	2448210.25	1990 Nov 14 1807:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y293	2448216.44	1990 Nov 20 2235:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y294	2448216.98	1990 Nov 21 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y295	2448217.10	1990 Nov 21 1430:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y296	2448217.13	1990 Nov 21 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y297	2448217.28	1990 Nov 21 1837:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W180	2448217.33	1990 Nov 21 2000:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y298	2448223.46	1990 Nov 27 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y299	2448224.09	1990 Nov 28 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y300	2448224.19	1990 Nov 28 1630:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y301	2448224.28	1990 Nov 28 1846:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y302	2448224.40	1990 Nov 28 2130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y303	2448224.98	1990 Nov 29 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y304	2448230.33	1990 Dec 04 1955:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W182	2448230.39	1990 Dec 04 2115:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W183	2448230.43	1990 Dec 04 2220:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y305	2448230.49	1990 Dec 04 2340:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y306	2448230.98	1990 Dec 05 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y307	2448230.98	1990 Dec 05 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y308	2448231.09	1990 Dec 05 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y309	2448231.16	1990 Dec 05 1545:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y310	2448235.98	1990 Dec 10 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y311	2448237.33	1990 Dec 11 1955:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y312	2448237.46	1990 Dec 11 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y313	2448237.98	1990 Dec 12 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y314	2448238.09	1990 Dec 12 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y315	2448238.13	1990 Dec 12 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y316	2448240.03	1990 Dec 14 1250:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y317	2448244.33	1990 Dec 18 1955:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y318	2448245.08	1990 Dec 19 1400:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y319	2448245.09	1990 Dec 19 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y320	2448245.13	1990 Dec 19 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-W188	2448245.88	1990 Dec 20 0905:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y321	2448251.36	1990 Dec 25 2040:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y322	2448251.46	1990 Dec 25 2300:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y323	2448251.98	1990 Dec 26 1130:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y324	2448252.09	1990 Dec 26 1407:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y325	2448252.10	1990 Dec 26 1421:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1990-Y326	2448252.13	1990 Dec 26 1505:00	M-100B	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1991-W01	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W02	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W03	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W04	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W05	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W06	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W07	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W08	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W09	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W10	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W11	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W12	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W13	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W14	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W15	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W16	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W17	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W18	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W19	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W20	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1991-W21	2448256.50	1991	M-100B	-	-	0.000	AN	SU	-	-	Aeron	Janes94-95	-	-
1993-Y32	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y33	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y34	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y35	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y36	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y37	2448987.50	1993	M-100B	-	Meteo	0.000	AN	SU	-	-	Aeron	ISRO93-94	-	-
1993-Y23	2449230.50	1993 Sep	M-100B	-	-	0.000	AN	SS	-	-	Aeron	TERLSPrivCom	-	-
2007-S75	2454100.50	2007	M-100B	-	Ionos	0.000	TSAO	SS	-	TSAO/	Aeron/Ionos	ITAR-TASS	-	-
2008-S64	2454465.50	2008	M-100B	-	Ionos	0.000	TSAO	SS	-	TSAO/	Aeron/Ionos	SevernayaNed080917	-	-
2008-A08	2454720.93	2008 Sep 11 1026	M-100B	-	Ionos	0.000	TSAO	SF	U	TSAO/	Aeron/Ionos	SevernayaNed080917	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-S60	2454048.87	2006 Nov 9 0851	MSBS M51	-	1	-	-	-	-	CEL	-	-	-	1000?	-	-
2007-S25	2454273.13	2007 Jun 21 1514	MSBS M51	-	2	-	-	-	-	CEL	-	-	-	1000?	-	-
2008-S62	2454783.88	2008 Nov 13 0906	MSBS M51	-	3	-	-	-	-	CEL	BLB	-	-	1000?	-	-
2010-S11	2455223.85	2010 Jan 27 0825	MSBS M51	-	4	N Atlantic	-	-	S619	BRETA	LP1	-	-	1000?	-	N Atl
2010-S47	2455387.81	2010 Jul 10 0732	MSBS M51	-	5	N Atlantic	-	-	S619	BRETA	LP1	-	-	1000?	-	N Atl
2013-A09	2456417.81	2013 May 5 0730	MSBS M51	-	6	M51.2	-	-	S618	BRETA	LP1	-	-	1?	-	-
2015-S51	2457295.85	2015 Sep 30 0828	MSBS M51	-	7	-	-	-	-	CEL	-	-	-	1000?	-	N Atl
2016-S42	2457570.80	2016 Jul 1 0718	MSBS M51	-	8	-	-	-	S616	BRETA	LP1	-	-	1000?	-	N Atl
2020-S22	2459012.50	2020 Jun 12	MSBS M51	-	9	-	-	-	S617	BRETA	LP2	-	-	1200?	6000?	66.1W 24.4N
2021-S23	2459332.83	2021 Apr 28 0800?	MSBS M51	-	10	-	-	-	-	CEL	-	-	-	1000?	6000?	68W 35N?
2023-S20	2460053.50	2023 Apr 19	MSBS M51	-	11	-	-	-	S619	BRETA	LP1	-	-	1000?	3500?	45.7W 37.6N
2023-S63	2460267.26	2023 Nov 18 1819	MSBS M51	-	12	M51.3	-	-	-	CEL	-	-	-	1000?	5100?	57.7W 39.4N

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-S60	2454048.87	2006 Nov 9 0851	MSBS M51	-	1	0.000	DMA	MS	-	-	Test	defense.gouv.fr	-	-
2007-S25	2454273.13	2007 Jun 21 1514	MSBS M51	-	2	0.000	DMA	MS	-	-	Test	defense.gouv.fr	-	-
2008-S62	2454783.88	2008 Nov 13 0906	MSBS M51	-	3	0.000	DMA	MS	-	-	Test	Wire	-	-
2010-S11	2455223.85	2010 Jan 27 0825	MSBS M51	-	4	0.000	DMA	MS	-	-	Test	Wire	-	-
2010-S47	2455387.81	2010 Jul 10 0732	MSBS M51	-	5	0.000	DMA	MS	-	-	Test	Wire	-	-
2013-A09	2456417.81	2013 May 5 0730	MSBS M51	-	6	0.000	DMA	MF	U	-	Test	Wire	-	-
2015-S51	2457295.85	2015 Sep 30 0828	MSBS M51	-	7	0.000	DMA	MS	-	-	Test	defense.gouv.fr	-	-
2016-S42	2457570.80	2016 Jul 1 0718	MSBS M51	-	8	0.000	DMA	MS	-	-	Test	Wire	-	-
2020-S22	2459012.50	2020 Jun 12	MSBS M51	-	9	0.000	DMA	MS	-	-	Test	Wire	-	-
2021-S23	2459332.83	2021 Apr 28 0800?	MSBS M51	-	10	0.000	DMA	MS	-	-	Test	air-cosmos.com	-	-
2023-S20	2460053.50	2023 Apr 19	MSBS M51	-	11	0.000	DMA	MS	-	-	Test	air-cosmos.com	-	-
2023-S63	2460267.26	2023 Nov 18 1819	MSBS M51	-	12	0.000	DMA	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S89	2459854.23	2022 Oct 1 1730:58	MESOS	-	-	MESOS	-	-	-	BROCK	LP1	-	-	89	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Agency	Launch_Code	Group	Category	LTCite	Cite	Notes
2022-S89	2459854.23	2022 Oct 1 1730:58	MESOS	-	-	MESOS	SS	MESOS/	Test	rocketryforum.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2008-S20	2454593.26	2008 May 6 1808	Mesquito	-	NASA 12.066GT	-	-	-	-	WI	LA2	-	-	85?	-	-
2008-A01	2454594.30	2008 May 7 1918	Mesquito	-	NASA 12.065GT	-	-	-	-	WI	LA2	-	-	15?	-	-
2009-S69	2455182.07	2009 Dec 16 1346:00	Mesquito	-	NASA 12.068GT	-	-	-	-	WI	LA2	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2008-S20	2454593.26	2008 May 6 1808	Mesquito	-	NASA 12.066GT	0.000	WFF	SS	-	WFF/	Test	Wire	-	-
2008-A01	2454594.30	2008 May 7 1918	Mesquito	-	NASA 12.065GT	0.000	WFF	SF	U	WFF/	Test	Wire	-	-
2009-S69	2455182.07	2009 Dec 16 1346:00	Mesquito	-	NASA 12.068GT	0.000	WFF	SS	-	WFF/Hall,Hickman	Test	wff.nasa.gov	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-M39	2440507.50	1969 Oct 13	MMR-06	-	MMR-06	-	-	-	-	GTsP-4	-	-	-	65	-	-
1969-M40	2440508.50	1969 Oct 14	MMR-06	-	MMR-06	-	-	-	-	GTsP-4	-	-	-	65	-	-
1976-W208	2442818.79	1976 Feb 10 0700:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP1	-	-	57	-	-
1976-W220	2442820.79	1976 Feb 12 0700:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP2	-	-	58	-	-
1976-W230	2442821.88	1976 Feb 13 0900:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP2	-	-	59	-	-
1976-W240	2442824.79	1976 Feb 16 0700:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP3	-	-	61	-	-
1976-W244	2442825.88	1976 Feb 17 0900:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP4	-	-	57	-	-
1976-W303	2442835.79	1976 Feb 27 0700:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP5	-	-	63	-	-
1976-W338	2442840.88	1976 Mar 03 0900:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP6	-	-	60?	-	-
1976-W359	2442842.92	1976 Mar 05 1000:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP6	-	-	61	-	-
1976-W367	2442844.83	1976 Mar 07 0800:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP7	-	-	59	-	-
1976-W368	2442845.83	1976 Mar 08 0800:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP8	-	-	60?	-	-
1976-W391	2442848.88	1976 Mar 11 0900:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP1	-	-	59	-	-
1976-W392	2442848.92	1976 Mar 11 1000:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP1	-	-	62	-	-
1976-W405	2442852.88	1976 Mar 15 0900:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP9	-	-	61	-	-
1976-W406	2442852.92	1976 Mar 15 1000:00	MMR-06	-	MMR-06	-	-	-	VOLNA	GMS76B	LP9	-	-	61	-	-
1976-W589	2442889.62	1976 Apr 21 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP1	-	-	60?	-	-
1976-W622	2442896.58	1976 Apr 28 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP2	-	-	63	-	-
1976-W658	2442901.58	1976 May 03 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W713	2442910.62	1976 May 12 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1976-W751	2442917.58	1976 May 19 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1976-W787	2442923.62	1976 May 25 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1976-W800	2442925.62	1976 May 27 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP3	-	-	60	-	-
1976-W852	2442938.62	1976 Jun 09 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP4	-	-	62	-	-
1976-W875	2442944.71	1976 Jun 15 0500:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP5	-	-	62	-	-
1976-W887	2442946.75	1976 Jun 17 0600:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76D	LP6	-	-	61	-	-
1976-W1119	2443002.58	1976 Aug 12 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76G	LP1	-	-	60	-	-
1976-W1208	2443018.58	1976 Aug 28 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76G	LP2	-	-	61	-	-
1976-W1250	2443025.62	1976 Sep 04 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	GMS76G	LP3	-	-	62	-	-
1976-W1264	2443029.62	1976 Sep 08 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1277	2443030.58	1976 Sep 09 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1298	2443036.58	1976 Sep 15 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1330	2443042.58	1976 Sep 21 0200:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1383	2443050.62	1976 Sep 29 0300:00	MMR-06	-	MMR-06	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1426	2443056.58	1976 Oct 5 0200	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1976-W1457	2443064.58	1976 Oct 13 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1976-W1483	2443067.83	1976 Oct 16 0800:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP1	-	-	61	-	-
1976-W1490	2443070.92	1976 Oct 19 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP2	-	-	64	-	-
1976-W1641	2443096.92	1976 Nov 14 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP3	-	-	60	-	-
1976-W1665	2443100.79	1976 Nov 18 0700:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP4	-	-	60?	-	-
1976-W1854	2443133.88	1976 Dec 21 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP5	-	-	65	-	-
1976-W1896	2443143.88	1976 Dec 31 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP6	-	-	60	-	-
1976-W1897	2443143.92	1976 Dec 31 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP7	-	-	61	-	-
1977-W12	2443146.96	1977 Jan 03 1100:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP8	-	-	58	-	-
1977-W26	2443148.92	1977 Jan 05 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS76H	LP9	-	-	59	-	-
1977-W286	2443180.58	1977 Feb 06 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77B	LP1	-	-	60	-	-
1977-W341	2443187.62	1977 Feb 13 0300:00	MMR-06	-	-	-	-	-	KREN	GMS77B	LP2	-	-	61	-	-
1977-W414	2443201.58	1977 Feb 27 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77B	LP3	-	-	60	-	-
1977-W434	2443204.58	1977 Mar 02 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W453	2443206.58	1977 Mar 04 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W475	2443211.62	1977 Mar 09 0300:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	64	-	-
1977-W489	2443213.58	1977 Mar 11 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1977-W525	2443219.62	1977 Mar 17 0300:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1977-W526	2443219.92	1977 Mar 17 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP1	-	-	60	-	-
1977-W531	2443220.88	1977 Mar 18 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP2	-	-	61	-	-
1977-W550	2443225.67	1977 Mar 23 0400:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	64	-	-
1977-W551	2443225.96	1977 Mar 23 1100:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP3	-	-	62	-	-
1977-W565	2443227.58	1977 Mar 25 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W568	2443227.92	1977 Mar 25 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP4	-	-	57	-	-
1977-W591	2443232.92	1977 Mar 30 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP5	-	-	59	-	-
1977-W602	2443233.67	1977 Mar 31 0400:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1977-W603	2443233.75	1977 Mar 31 0600:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1977-W618	2443236.62	1977 Apr 03 0300:00	MMR-06	-	-	-	-	-	KREN	GMS77B	LP4	-	-	62	-	-
1977-W619	2443237.67	1977 Apr 04 0400:00	MMR-06	-	-	-	-	-	KREN	GMS77B	LP5	-	-	60	-	-
1977-W657	2443246.62	1977 Apr 13 0300:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77E	LP1	-	-	61	-	-
1977-W672	2443247.92	1977 Apr 14 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP6	-	-	60	-	-
1977-W691	2443252.92	1977 Apr 19 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP7	-	-	59	-	-
1977-W693	2443253.88	1977 Apr 20 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP8	-	-	60	-	-
1977-W708	2443254.88	1977 Apr 21 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP8	-	-	59	-	-
1977-W720	2443256.88	1977 Apr 23 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP9	-	-	62	-	-
1977-W728	2443259.88	1977 Apr 26 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP10	-	-	63	-	-
1977-W745	2443262.71	1977 Apr 29 0500:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77E	LP2	-	-	60?	-	-
1977-W758	2443263.96	1977 Apr 30 1100:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP1	-	-	68	-	-
1977-W770	2443266.96	1977 May 03 1100:00	MMR-06	-	-	-	-	-	VOLNA	GMS77D	LP11	-	-	62	-	-
1977-W773	2443267.58	1977 May 04 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1977-W788	2443269.71	1977 May 06 0500:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	62	-	-
1977-W812	2443274.58	1977 May 11 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1977-W846	2443281.58	1977 May 18 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	65	-	-
1977-W883	2443288.64	1977 May 25 0320:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60?	-	-
1977-W928	2443295.58	1977 Jun 01 0200:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77E	LP3	-	-	63	-	-
1977-W942	2443296.58	1977 Jun 02 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP1	-	-	56	-	-
1977-W945	2443297.67	1977 Jun 03 0400:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77E	LP4	-	-	60	-	-
1977-W953	2443298.67	1977 Jun 04 0400:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77E	LP5	-	-	61	-	-
1977-W961	2443302.58	1977 Jun 08 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP2	-	-	61	-	-
1977-W962	2443302.62	1977 Jun 08 0300:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP2	-	-	62	-	-
1977-W999	2443309.62	1977 Jun 15 0300:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP3	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1000	2443309.67	1977 Jun 15 0400:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP3	-	-	59	-	-
1977-W1024	2443311.58	1977 Jun 17 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP4	-	-	58	-	-
1977-W1043	2443315.58	1977 Jun 21 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP5	-	-	57	-	-
1977-W1048	2443317.08	1977 Jun 22 1400:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP6	-	-	60	-	-
1977-W1054	2443317.19	1977 Jun 22 1640:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP6	-	-	59	-	-
1977-W1074	2443320.58	1977 Jun 26 0200:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP7	-	-	58	-	-
1977-W1089	2443323.62	1977 Jun 29 0300:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP8	-	-	59	-	-
1977-W1090	2443323.67	1977 Jun 29 0400:00	MMR-06	-	-	-	-	-	KREN	GMS77J	LP8	-	-	59	-	-
1977-W1155	2443338.33	1977 Jul 13 2000:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1977-W1198	2443345.25	1977 Jul 20 1800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W1204	2443345.33	1977 Jul 20 2000:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W1251	2443351.67	1977 Jul 27 0400:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77K	LP1	-	-	60	-	-
1977-W1257	2443352.29	1977 Jul 27 1900:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1977-W1259	2443352.38	1977 Jul 27 2100:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1977-W1272	2443354.29	1977 Jul 29 1900:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1977-W1274	2443354.33	1977 Jul 29 2000:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1977-W1309	2443359.42	1977 Aug 03 2200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1977-W1322	2443361.38	1977 Aug 05 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	63	-	-
1977-W1347	2443366.38	1977 Aug 10 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	62	-	-
1977-W1355	2443368.38	1977 Aug 12 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1977-W1374	2443373.38	1977 Aug 17 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	63	-	-
1977-W1380	2443375.38	1977 Aug 19 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	63	-	-
1977-W1408	2443382.38	1977 Aug 26 2100:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1977-W1427	2443387.42	1977 Aug 31 2200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1977-W1441	2443393.58	1977 Sep 07 0200:00	MMR-06	-	-	-	-	-	USHAKOV	GMS77K	LP2	-	-	59	-	-
1977-W1569	2443424.58	1977 Oct 08 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1977-W1570	2443424.67	1977 Oct 08 0400:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1977-W1585	2443429.58	1977 Oct 13 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1977-W1592	2443431.58	1977 Oct 15 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1977-W1593	2443431.67	1977 Oct 15 0400:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	64	-	-
1977-W1611	2443436.54	1977 Oct 20 0100:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	66	-	-
1977-W1613	2443436.62	1977 Oct 20 0300:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1977-W1624	2443438.62	1977 Oct 22 0300:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1977-W1640	2443443.58	1977 Oct 27 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	62	-	-
1977-W1806	2443479.58	1977 Dec 02 0200:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	66	-	-
1977-W1825	2443484.58	1977 Dec 07 0200:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	65	-	-
1977-W1855	2443491.58	1977 Dec 14 0200:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	56	-	-
1977-W1885	2443498.58	1977 Dec 21 0200:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	66	-	-
1977-W1904	2443505.62	1977 Dec 28 0300:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1978-W118	2443540.58	1978 Feb 01 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1978-W128	2443542.62	1978 Feb 03 0300:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1978-W146	2443547.62	1978 Feb 08 0300:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	64	-	-
1978-W159	2443549.58	1978 Feb 10 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	62	-	-
1978-W175	2443554.67	1978 Feb 15 0400:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	69	-	-
1978-W176	2443554.97	1978 Feb 15 1110:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	64	-	-
1978-W193	2443556.62	1978 Feb 17 0300:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	65	-	-
1978-Y77	2443560.97	1978 Feb 21 1120:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	87	-	-
1978-W214	2443561.58	1978 Feb 22 0200:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	68	-	-
1978-W215	2443561.95	1978 Feb 22 1050:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	69	-	-
1978-Y80	2443562.01	1978 Feb 22 1210:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	91	-	-
1978-W232	2443563.65	1978 Feb 24 0335:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	64	-	-
1978-Y86	2443563.94	1978 Feb 24 1030:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	88	-	-
1978-W321	2443584.79	1978 Mar 17 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1978-W322	2443584.83	1978 Mar 17 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	64	-	-
1978-W328	2443586.88	1978 Mar 19 0900:00	MMR-06	-	-	-	-	-	VOLNA	GMS78B	LP1	-	-	59	-	-
1978-W336	2443588.79	1978 Mar 21 0700:00	MMR-06	-	-	-	-	-	VOLNA	GMS78B	LP2	-	-	60	-	-
1978-W353	2443591.83	1978 Mar 24 0800:00	MMR-06	-	-	-	-	-	VOLNA	GMS78B	LP3	-	-	60	-	-
1978-W359	2443593.79	1978 Mar 26 0700:00	MMR-06	-	-	-	-	-	VOLNA	GMS78B	LP4	-	-	60	-	-
1978-W369	2443596.79	1978 Mar 29 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1978-W370	2443596.83	1978 Mar 29 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	62	-	-
1978-W384	2443598.83	1978 Mar 31 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	62	-	-
1978-W390	2443600.17	1978 Apr 01 1600:00	MMR-06	-	-	-	-	-	USHAKOV	GMS78D	LP1	-	-	59	-	-
1978-W391	2443600.21	1978 Apr 01 1700:00	MMR-06	-	-	-	-	-	USHAKOV	GMS78D	LP1	-	-	58	-	-
1978-W409	2443607.79	1978 Apr 09 0700:00	MMR-06	-	-	-	-	-	MUSSON	GMS78F	LP1	-	-	61	-	-
1978-W417	2443610.79	1978 Apr 12 0700:00	MMR-06	-	-	-	-	-	MUSSON	GMS78F	LP2	-	-	59	-	-
1978-W418	2443610.83	1978 Apr 12 0800:00	MMR-06	-	-	-	-	-	MUSSON	GMS78F	LP2	-	-	60	-	-
1978-W437	2443613.83	1978 Apr 15 0800:00	MMR-06	-	-	-	-	-	MUSSON	GMS78F	LP3	-	-	58	-	-
1978-W673	2443681.16	1978 Jun 21 1545:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	65	-	-
1978-W695	2443688.16	1978 Jun 28 1545:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	66	-	-
1978-W788	2443718.12	1978 Jul 28 1500:00	MMR-06	-	-	-	-	-	KREN	GMS78G	LP1	-	-	59	-	-
1978-W789	2443718.17	1978 Jul 28 1600:00	MMR-06	-	-	-	-	-	KREN	GMS78G	LP1	-	-	58	-	-
1978-W795	2443720.12	1978 Jul 30 1500:00	MMR-06	-	-	-	-	-	KREN	GMS78G	LP1	-	-	59	-	-
1978-W796	2443720.17	1978 Jul 30 1600:00	MMR-06	-	-	-	-	-	KREN	GMS78G	LP2	-	-	57	-	-
1978-W806	2443723.25	1978 Aug 02 1800:00	MMR-06	-	-	-	-	-	KREN	GMS78G	LP3	-	-	58	-	-
1978-W913	2443752.58	1978 Sep 01 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1978-W925	2443757.58	1978 Sep 06 0200:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1978-W934	2443759.62	1978 Sep 08 0300:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1978-W949	2443764.83	1978 Sep 13 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1978-W959	2443766.83	1978 Sep 15 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1978-W971	2443771.83	1978 Sep 20 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1978-W987	2443773.88	1978 Sep 22 0900:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1978-W1003	2443778.88	1978 Sep 27 0900:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1978-W1012	2443780.83	1978 Sep 29 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1978-W1119	2443813.83	1978 Nov 01 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1978-W1128	2443815.79	1978 Nov 03 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1978-W1140	2443820.79	1978 Nov 08 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W1152	2443822.83	1978 Nov 10 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	62	-	-
1978-W1163	2443827.83	1978 Nov 15 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	63	-	-
1978-W1174	2443829.79	1978 Nov 17 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1979-W26	2443876.88	1979 Jan 03 0900:00	MMR-06	-	MMR-06	-	-	-	KREN	MINIA	-	-	-	60	-	-
1979-W144	2443899.83	1979 Jan 26 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1979-W167	2443904.83	1979 Jan 31 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1979-W183	2443906.83	1979 Feb 02 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1979-W202	2443911.79	1979 Feb 07 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1979-W219	2443913.79	1979 Feb 09 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1979-W237	2443918.79	1979 Feb 14 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1979-W316	2443932.79	1979 Feb 28 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1979-W531	2443987.21	1979 Apr 23 1700:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP1	-	-	60	-	-
1979-W536	2443988.83	1979 Apr 25 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1979-W548	2443990.83	1979 Apr 27 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1979-W639	2444010.38	1979 May 16 2100:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	55	-	-
1979-W651	2444012.33	1979 May 18 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	58	-	-
1979-W659	2444015.33	1979 May 21 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	59	-	-
1979-W673	2444017.33	1979 May 23 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP3	-	-	58	-	-
1979-W677	2444018.33	1979 May 24 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	60	-	-
1979-W692	2444021.33	1979 May 27 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	59	-	-
1979-W691	2444020.83	1979 May 27 0800:00	MMR-06	-	-	-	-	-	MUSSON	GMS79E	LP1	-	-	58	-	-
1979-W696	2444022.33	1979 May 28 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	58	-	-
1979-W700	2444023.33	1979 May 29 2000:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP2	-	-	58	-	-
1979-W714	2444025.83	1979 Jun 01 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1979-W730	2444030.83	1979 Jun 06 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1979-W743	2444032.79	1979 Jun 08 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1979-W756	2444037.83	1979 Jun 13 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1979-W768	2444039.79	1979 Jun 15 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1979-W786	2444044.83	1979 Jun 20 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1979-W794	2444046.79	1979 Jun 22 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1979-W814	2444051.79	1979 Jun 27 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1979-W845	2444058.83	1979 Jul 04 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1979-W865	2444065.83	1979 Jul 11 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1979-W876	2444067.08	1979 Jul 12 1400:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP4	-	-	57	-	-
1979-W877	2444067.12	1979 Jul 12 1500:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP4	-	-	58	-	-
1979-W878	2444067.17	1979 Jul 12 1600:00	MMR-06	-	-	-	-	-	PRILIV	GMS79D	LP4	-	-	58	-	-
1979-W903	2444072.83	1979 Jul 18 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1979-W1291	2444179.40	1979 Nov 01 2140:00	MMR-06	-	-	-	-	-	USHAKOV	GMS79G	LP1	-	-	55	-	-
1979-W1311	2444184.83	1979 Nov 07 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1979-W1312	2444184.88	1979 Nov 07 0900:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1979-Y546	2444193.83	1979 Nov 16 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	87	-	-
1979-W1354	2444198.82	1979 Nov 21 0740:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1979-W1379	2444207.81	1979 Nov 30 0730:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1979-Y578	2444218.96	1979 Dec 11 1100:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1979-W1405	2444219.81	1979 Dec 12 0730:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1979-W1430	2444226.83	1979 Dec 19 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1979-W1447	2444231.81	1979 Dec 24 0730:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1979-W1449	2444231.92	1979 Dec 24 1000:00	MMR-06	-	-	-	-	-	VOLNA	GMS79K	LP1	-	-	60	-	-
1979-W1451	2444232.16	1979 Dec 24 1545:00	MMR-06	-	-	-	-	-	VOLNA	GMS79K	LP1	-	-	62	-	-
1979-W1453	2444233.80	1979 Dec 26 0715:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1980-W43	2444252.94	1980 Jan 14 1030:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1980-W44	2444253.00	1980 Jan 14 1200:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1980-W45	2444253.06	1980 Jan 14 1330:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1980-W53	2444255.00	1980 Jan 16 1200:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	68	-	-
1980-W54	2444255.06	1980 Jan 16 1330:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1980-Y35	2444256.94	1980 Jan 18 1030:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1980-Y36	2444257.06	1980 Jan 18 1330:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1980-W66	2444257.12	1980 Jan 18 1500:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	64	-	-
1980-W119	2444275.79	1980 Feb 06 0700:00	MMR-06	-	-	-	-	-	PASSAT	GMS80A	LP1	-	-	56	-	-
1980-W126	2444278.17	1980 Feb 08 1600:00	MMR-06	-	-	-	-	-	VOLNA	GMS79K	LP2	-	-	56	-	-
1980-W128	2444279.15	1980 Feb 09 1540:00	MMR-06	-	-	-	-	-	VOLNA	GMS79K	LP2	-	-	59	-	-
1980-W149	2444284.85	1980 Feb 15 0830:00	MMR-06	-	-	-	-	-	PASSAT	GMS80A	LP1	-	-	60	-	-
1980-W165	2444289.83	1980 Feb 20 0800:00	MMR-06	-	-	-	-	-	PASSAT	GMS80A	LP1	-	-	59	-	-
1980-W180	2444295.08	1980 Feb 25 1400:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W183	2444295.19	1980 Feb 25 1630:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W184	2444295.27	1980 Feb 25 1830:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	60	-	-
1980-W186	2444296.10	1980 Feb 26 1430:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	60	-	-
1980-W187	2444296.28	1980 Feb 26 1840:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	58	-	-
1980-W189	2444297.06	1980 Feb 27 1320:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W192	2444297.23	1980 Feb 27 1730:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W188	2444296.83	1980 Feb 27 0800:00	MMR-06	-	-	-	-	-	PASSAT	GMS80A	LP1	-	-	52	-	-
1980-W194	2444298.06	1980 Feb 28 1320:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W195	2444298.10	1980 Feb 28 1420:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	60	-	-
1980-W196	2444298.15	1980 Feb 28 1530:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W197	2444298.21	1980 Feb 28 1700:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W198	2444298.25	1980 Feb 28 1800:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	60	-	-
1980-W206	2444299.01	1980 Feb 29 1220:00	MMR-06	-	-	-	-	-	VOLNA	OJP	-	-	-	59	-	-
1980-W204	2444298.81	1980 Feb 29 0730:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	57	-	-
1980-W205	2444298.88	1980 Feb 29 0900:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	57	-	-
1980-W215	2444301.67	1980 Mar 03 0400:00	MMR-06	-	-	-	-	-	PASSAT	GMS80A	LP1	-	-	57	-	-
1980-W224	2444303.88	1980 Mar 05 0900:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	57	-	-
1980-W247	2444310.83	1980 Mar 12 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	56	-	-
1980-W260	2444312.83	1980 Mar 14 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	57	-	-
1980-W279	2444317.79	1980 Mar 19 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	57	-	-
1980-W288	2444319.79	1980 Mar 21 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	57	-	-
1980-W306	2444324.83	1980 Mar 26 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W315	2444326.83	1980 Mar 28 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1980-W390	2444348.88	1980 Apr 19 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP1	-	-	56	-	-
1980-W402	2444352.88	1980 Apr 23 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP2	-	-	58	-	-
1980-W413	2444354.88	1980 Apr 25 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP3	-	-	61	-	-
1980-W487	2444376.96	1980 May 17 1100:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP4	-	-	58	-	-
1980-W529	2444388.92	1980 May 29 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP5	-	-	56	-	-
1980-W535	2444390.88	1980 May 31 0900:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP6	-	-	62	-	-
1980-W536	2444390.92	1980 May 31 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP6	-	-	57	-	-
1980-W538	2444392.96	1980 Jun 02 1100:00	MMR-06	-	-	-	-	-	PRILIV	GMS80D	LP5	-	-	58	-	-
1980-W606	2444409.27	1980 Jun 18 1830:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1980-W632	2444417.54	1980 Jun 27 0100:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1980-W638	2444418.50	1980 Jun 28 0000:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1980-Y385	2444478.39	1980 Aug 26 2120:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	82	-	-
1980-W825	2444486.10	1980 Sep 03 1430:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1980-Y396	2444486.23	1980 Sep 03 1730:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1980-W829	2444486.29	1980 Sep 03 1900:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1980-W833	2444487.85	1980 Sep 05 0820:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	54	-	-
1980-A35	2444492.12	1980 Sep 09 1500:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	49	-	-
1980-W846	2444492.19	1980 Sep 09 1630:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1980-W847	2444492.25	1980 Sep 09 1800:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1980-W850	2444492.82	1980 Sep 10 0735:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1980-W858	2444494.82	1980 Sep 12 0735:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1980-W882	2444501.81	1980 Sep 19 0730:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1980-W896	2444506.79	1980 Sep 24 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1980-W921	2444513.79	1980 Oct 01 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1980-W922	2444513.88	1980 Oct 01 0900:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W931	2444515.79	1980 Oct 03 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W945	2444520.79	1980 Oct 08 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W958	2444527.83	1980 Oct 15 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W972	2444529.79	1980 Oct 17 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W984	2444534.83	1980 Oct 22 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1980-W992	2444536.83	1980 Oct 24 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1980-W1007	2444541.88	1980 Oct 29 0900:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1980-W1040	2444557.81	1980 Nov 14 0720:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	78	-	-
1980-W1041	2444557.89	1980 Nov 14 0920:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1980-W1042	2444558.01	1980 Nov 14 1220:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1980-W1050	2444561.93	1980 Nov 18 1020:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1980-W1051	2444561.98	1980 Nov 18 1130:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1981-W15	2444619.12	1981 Jan 14 1500:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP1	-	-	55	-	-
1981-W13	2444619.04	1981 Jan 14 1300:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP1	-	-	54	-	-
1981-W16	2444620.04	1981 Jan 15 1300:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP2	-	-	61	-	-
1981-W19	2444622.08	1981 Jan 17 1400:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP2	-	-	58	-	-
1981-W23	2444625.04	1981 Jan 20 1300:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP3	-	-	58	-	-
1981-W24	2444625.04	1981 Jan 20 1300:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP3	-	-	55	-	-
1981-W26	2444626.06	1981 Jan 21 1330:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP4	-	-	60	-	-
1981-W51	2444639.79	1981 Feb 04 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	54	-	-
1981-W62	2444641.79	1981 Feb 06 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1981-W63	2444641.86	1981 Feb 06 0845:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1981-W72	2444646.08	1981 Feb 10 1400:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP4	-	-	60	-	-
1981-W82	2444648.85	1981 Feb 13 0830:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1981-W91	2444653.81	1981 Feb 18 0720:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1981-W92	2444653.86	1981 Feb 18 0840:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1981-W100	2444656.12	1981 Feb 20 1500:00	MMR-06	-	FLIGHT 296	-	-	-	PRILIV	GMS81B	LP5	-	-	64	-	-
1981-W101	2444656.21	1981 Feb 20 1700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1981-W105	2444658.06	1981 Feb 22 1320:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP5	-	-	58	-	-
1981-W107	2444659.12	1981 Feb 23 1500:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP6	-	-	62	-	-
1981-W113	2444660.07	1981 Feb 24 1340:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP7	-	-	57	-	-
1981-W116	2444661.02	1981 Feb 25 1230:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP6	-	-	56	-	-
1981-W188	2444687.12	1981 Mar 23 1500:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP7	-	-	58	-	-
1981-W199	2444690.12	1981 Mar 26 1500:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP8	-	-	55	-	-
1981-W201	2444690.17	1981 Mar 26 1600:00	MMR-06	-	-	-	-	-	VOLNA	GMS81A	LP8	-	-	58	-	-
1981-Y128	2444696.17	1981 Apr 01 1600:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-W219	2444697.12	1981 Apr 02 1500:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP9	-	-	55	-	-
1981-W225	2444700.17	1981 Apr 05 1600:00	MMR-06	-	-	-	-	-	PRILIV	GMS81B	LP9	-	-	56	-	-
1981-Y134	2444703.10	1981 Apr 08 1430:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	81	-	-
1981-W235	2444703.19	1981 Apr 08 1630:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1981-W289	2444716.62	1981 Apr 22 0300:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1981-W290	2444716.67	1981 Apr 22 0400:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1981-W300	2444722.04	1981 Apr 27 1300:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	71	-	-
1981-W303	2444722.10	1981 Apr 27 1420:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1981-W305	2444722.19	1981 Apr 27 1635:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	79	-	-
1981-W306	2444722.23	1981 Apr 27 1730:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	77	-	-
1981-W316	2444725.83	1981 May 01 0750:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1981-W323	2444730.85	1981 May 06 0830:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1981-W327	2444732.79	1981 May 08 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	55	-	-
1981-W346	2444739.83	1981 May 15 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1981-W355	2444744.83	1981 May 20 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1981-W362	2444746.83	1981 May 22 0800:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1981-W366	2444748.85	1981 May 24 0830:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1981-W373	2444751.81	1981 May 27 0730:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1981-W383	2444753.86	1981 May 29 0840:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1981-W396	2444758.81	1981 Jun 03 0730:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1981-W403	2444760.79	1981 Jun 05 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1981-W413	2444765.79	1981 Jun 10 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-W419	2444767.79	1981 Jun 12 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1981-W423	2444772.79	1981 Jun 17 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W429	2444774.79	1981 Jun 19 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-Y246	2444777.58	1981 Jun 22 0200:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	80	-	-
1981-W431	2444777.67	1981 Jun 22 0400:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1981-W432	2444777.75	1981 Jun 22 0600:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	52	-	-
1981-W433	2444777.83	1981 Jun 22 0800:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	53	-	-
1981-W434	2444777.92	1981 Jun 22 1000:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1981-W439	2444778.71	1981 Jun 23 0500:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1981-W440	2444778.75	1981 Jun 23 0600:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	72	-	-
1981-A15	2444778.79	1981 Jun 23 0700:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	48	-	-
1981-A16	2444778.83	1981 Jun 23 0800:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	46	-	-
1981-W443	2444779.83	1981 Jun 24 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-W451	2444781.79	1981 Jun 26 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-W455	2444783.79	1981 Jun 28 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-W584	2444851.88	1981 Sep 04 0900:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W595	2444856.88	1981 Sep 09 0900:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W601	2444858.82	1981 Sep 11 0740:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W615	2444863.88	1981 Sep 16 0900:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W632	2444872.83	1981 Sep 25 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1981-W642	2444877.83	1981 Sep 30 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W649	2444879.83	1981 Oct 02 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1981-W664	2444884.83	1981 Oct 07 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1981-W684	2444898.79	1981 Oct 21 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1981-W697	2444905.83	1981 Oct 28 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1981-W716	2444914.79	1981 Nov 06 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1981-W724	2444919.82	1981 Nov 11 0740:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	56	-	-
1981-W750	2444926.79	1981 Nov 18 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	62	-	-
1981-W767	2444933.79	1981 Nov 25 0700:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1982-W01	2444970.83	1982 Jan 01 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1982-W07	2444975.81	1982 Jan 06 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1982-W12	2444977.83	1982 Jan 08 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W21	2444982.79	1982 Jan 13 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W29	2444984.83	1982 Jan 15 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W49	2444991.81	1982 Jan 22 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1982-W66	2444997.00	1982 Jan 27 1200:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1982-W65	2444996.83	1982 Jan 27 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1982-W73	2444998.79	1982 Jan 29 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1982-W109	2445012.81	1982 Feb 12 0730:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1982-W122	2445017.79	1982 Feb 17 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1982-W129	2445019.88	1982 Feb 19 0900:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1982-W134	2445021.79	1982 Feb 21 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	58	-	-
1982-W136	2445022.79	1982 Feb 22 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W141	2445024.79	1982 Feb 24 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W149	2445026.79	1982 Feb 26 0700:00	MMR-06	-	MMR-06	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W152	2445028.87	1982 Feb 28 0850:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1982-W237	2445066.79	1982 Apr 07 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1982-W240	2445068.83	1982 Apr 09 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1982-W249	2445075.79	1982 Apr 16 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1982-W259	2445080.79	1982 Apr 21 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W264	2445082.79	1982 Apr 23 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W271	2445089.79	1982 Apr 30 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1982-W275	2445092.79	1982 May 03 0700:00	MMR-06	-	-	-	-	-	MUSSON	GMS82C	LP1	-	-	59	-	-
1982-W274	2445092.75	1982 May 03 0600:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	56	-	-
1982-W277	2445094.75	1982 May 05 0600:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	57	-	-
1982-W280	2445096.79	1982 May 07 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W282	2445099.79	1982 May 10 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	55	-	-
1982-W286	2445101.79	1982 May 12 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	58	-	-
1982-W289	2445103.79	1982 May 14 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1982-W291	2445106.79	1982 May 17 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1982-W297	2445110.79	1982 May 21 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W299	2445113.79	1982 May 24 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1982-W303	2445115.79	1982 May 26 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	59	-	-
1982-W442	2445274.81	1982 Nov 01 0730:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1982-W445	2445276.80	1982 Nov 03 0710:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1982-W448	2445278.79	1982 Nov 05 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1982-W450	2445283.79	1982 Nov 10 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1982-W456	2445285.79	1982 Nov 12 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1982-W460	2445288.80	1982 Nov 15 0710:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1982-W474	2445292.79	1982 Nov 19 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1982-W476	2445295.79	1982 Nov 22 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1982-W477	2445297.79	1982 Nov 24 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1982-W481	2445299.79	1982 Nov 26 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1982-W483	2445302.79	1982 Nov 29 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1982-W485	2445304.83	1982 Dec 01 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	59	-	-
1982-W490	2445306.83	1982 Dec 03 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	59	-	-
1982-W492	2445309.85	1982 Dec 06 0820:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	61	-	-
1982-W495	2445311.86	1982 Dec 08 0840:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	60	-	-
1982-W505	2445320.81	1982 Dec 17 0730:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	58	-	-
1982-W509	2445325.83	1982 Dec 22 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	59	-	-
1982-W511	2445332.81	1982 Dec 29 0720:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	64	-	-
1982-W512	2445332.86	1982 Dec 29 0845:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA?	-	-	-	61	-	-
1983-W28	2445374.80	1983 Feb 09 0710:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1983-W32	2445378.79	1983 Feb 13 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1983-W33	2445379.79	1983 Feb 14 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1983-W37	2445381.79	1983 Feb 16 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1983-W40	2445383.79	1983 Feb 18 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1983-W42	2445386.79	1983 Feb 21 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-W46	2445388.83	1983 Feb 23 0750:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1983-W52	2445392.79	1983 Feb 27 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1983-W55	2445395.87	1983 Mar 02 0855:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	56	-	-
1983-W61	2445397.86	1983 Mar 04 0840:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1983-W62	2445400.84	1983 Mar 07 0815:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1983-W67	2445402.85	1983 Mar 09 0820:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	62	-	-
1983-W70	2445404.85	1983 Mar 11 0820:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1983-W75	2445407.82	1983 Mar 14 0735:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1983-W81	2445409.86	1983 Mar 16 0840:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1983-W84	2445411.82	1983 Mar 18 0745:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1983-W91	2445416.82	1983 Mar 23 0740:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1983-W96	2445421.82	1983 Mar 28 0735:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1983-W136	2445459.18	1983 May 04 1625:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1983-W134	2445458.80	1983 May 04 0710:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W141	2445460.81	1983 May 06 0720:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W150	2445466.13	1983 May 11 1514:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1983-W147	2445465.79	1983 May 11 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W153	2445467.79	1983 May 13 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1983-W156	2445470.84	1983 May 16 0810:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W160	2445472.79	1983 May 18 0700:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1983-W162	2445474.82	1983 May 20 0740:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W165	2445479.74	1983 May 25 0540:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1983-W167	2445479.81	1983 May 25 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	63	-	-
1983-W173	2445481.81	1983 May 27 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1983-W179	2445494.22	1983 Jun 08 1715:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	56	-	-
1983-W181	2445494.27	1983 Jun 08 1830:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1983-W182	2445494.33	1983 Jun 08 2000:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60?	-	-
1983-W227	2445549.83	1983 Aug 03 0750:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1983-W230	2445551.82	1983 Aug 05 0740:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1983-W233	2445556.81	1983 Aug 10 0720:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1983-W236	2445558.82	1983 Aug 12 0740:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	56	-	-
1983-W239	2445564.84	1983 Aug 18 0803:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1983-W241	2445570.80	1983 Aug 24 0706:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1983-W244	2445572.81	1983 Aug 26 0723:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1983-W245	2445575.79	1983 Aug 29 0704:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1985-W221	2446291.85	1985 Aug 14 0820:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1985-W222	2446293.81	1985 Aug 16 0720:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1985-W223	2446298.82	1985 Aug 21 0745:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1985-W224	2446300.80	1985 Aug 23 0713:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1985-W225	2446305.79	1985 Aug 28 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1985-W226	2446307.79	1985 Aug 30 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1985-Y70	2446312.79	1985 Sep 04 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	81	-	-
1985-W246	2446324.79	1985 Sep 16 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1985-W272	2446366.82	1985 Oct 28 0741:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1985-W275	2446368.15	1985 Oct 29 1530:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1985-W276	2446368.81	1985 Oct 30 0721:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1985-W284	2446370.81	1985 Nov 01 0729:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	59	-	-
1985-W287	2446375.80	1985 Nov 06 0709:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1985-W286	2446375.79	1985 Nov 06 0700:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	58	-	-
1985-W296	2446382.81	1985 Nov 13 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	64	-	-
1985-W299	2446389.83	1985 Nov 20 0800:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1985-W301	2446391.81	1985 Nov 22 0730:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1986-W26	2446469.08	1986 Feb 07 1350:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1986-W27	2446469.23	1986 Feb 07 1730:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1986-W31	2446473.81	1986 Feb 12 0723:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1986-W34	2446475.86	1986 Feb 14 0842:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	64	-	-
1986-W35	2446478.79	1986 Feb 17 0703:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1986-W38	2446480.79	1986 Feb 19 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1986-W42	2446482.79	1986 Feb 21 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	64	-	-
1986-W44	2446487.79	1986 Feb 26 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1986-W46	2446489.80	1986 Feb 28 0710:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1986-W47	2446492.79	1986 Mar 03 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	59	-	-
1986-W50	2446494.79	1986 Mar 05 0702:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1986-W53	2446496.80	1986 Mar 07 0718:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	55	-	-
1986-W58	2446503.82	1986 Mar 14 0739:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1986-W59	2446506.81	1986 Mar 17 0733:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1986-W63	2446508.79	1986 Mar 19 0704:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1986-W65	2446510.80	1986 Mar 21 0706:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	54	-	-
1986-W67	2446515.79	1986 Mar 26 0704:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1986-W71	2446517.80	1986 Mar 28 0713:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1986-W73	2446522.80	1986 Apr 02 0712:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1986-W74	2446529.79	1986 Apr 09 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1986-W75	2446531.81	1986 Apr 11 0726:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1986-W153	2446680.83	1986 Sep 07 0748:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1986-W159	2446692.83	1986 Sep 19 0800:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1986-W162	2446694.84	1986 Sep 21 0804:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1986-W163	2446695.85	1986 Sep 22 0817:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1986-W167	2446697.83	1986 Sep 24 0759:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	62	-	-
1986-W172	2446701.82	1986 Sep 28 0742:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1987-W01	2446798.01	1987 Jan 02 1220:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	59	-	-
1987-W02	2446798.11	1987 Jan 02 1444:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	58	-	-
1987-W04	2446801.18	1987 Jan 05 1624:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	58	-	-
1987-W05	2446801.24	1987 Jan 05 1741:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	60	-	-
1987-W06	2446802.09	1987 Jan 06 1406:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	57	-	-
1987-W07	2446802.14	1987 Jan 06 1525:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	58	-	-
1987-W08	2446802.81	1987 Jan 07 0731:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-W09	2446802.99	1987 Jan 07 1139:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	62	-	-
1987-W14	2446803.96	1987 Jan 08 1105:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	59	-	-
1987-W17	2446804.84	1987 Jan 09 0803:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1987-W18	2446804.92	1987 Jan 09 1001:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	59	-	-
1987-W19	2446807.03	1987 Jan 11 1237:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	57	-	-
1987-W20	2446807.07	1987 Jan 11 1347:00	MMR-06	-	-	-	-	-	PRILIV	GMS87A	ULP1	-	-	57	-	-
1987-W23	2446809.82	1987 Jan 14 0741:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	62	-	-
1987-W29	2446811.82	1987 Jan 16 0740:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1987-W31	2446816.84	1987 Jan 21 0810:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	58	-	-
1987-W55	2446856.82	1987 Mar 02 0745:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1987-W57	2446858.85	1987 Mar 04 0819:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1987-W62	2446860.79	1987 Mar 06 0704:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1987-W69	2446872.79	1987 Mar 18 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1987-W72	2446874.81	1987 Mar 20 0723:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1987-W78	2446879.80	1987 Mar 25 0717:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	61	-	-
1987-W81	2446881.80	1987 Mar 27 0705:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1987-W82	2446886.85	1987 Apr 01 0822:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1987-W88	2446888.83	1987 Apr 03 0800:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1987-W91	2446893.84	1987 Apr 08 0811:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	54	-	-
1987-W95	2446895.85	1987 Apr 10 0830:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1987-W97	2446900.83	1987 Apr 15 0758:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1987-W104	2446905.83	1987 Apr 20 0750:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	57	-	-
1987-W105	2446907.81	1987 Apr 22 0732:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1987-W112	2446909.84	1987 Apr 24 0807:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1987-W115	2446912.83	1987 Apr 27 0753:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	59	-	-
1987-W149	2446951.80	1987 Jun 05 0705:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1987-W152	2446956.79	1987 Jun 10 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	57	-	-
1987-W156	2446958.79	1987 Jun 12 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1987-W158	2446961.80	1987 Jun 15 0705:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	58	-	-
1987-W162	2446963.79	1987 Jun 17 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1987-W165	2446965.79	1987 Jun 19 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1987-W170	2446970.79	1987 Jun 24 0703:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1987-W174	2446972.79	1987 Jun 26 0701:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	59	-	-
1987-W175	2446977.80	1987 Jul 01 0706:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1987-W180	2446984.87	1987 Jul 08 0847:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1987-W183	2446986.84	1987 Jul 10 0806:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1987-W184	2446988.82	1987 Jul 12 0741:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1987-W189	2446993.80	1987 Jul 17 0715:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1987-W191	2446995.81	1987 Jul 19 0723:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1987-W193	2446998.82	1987 Jul 22 0736:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	56	-	-
1987-W195	2447000.82	1987 Jul 24 0747:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	56	-	-
1987-W197	2447002.81	1987 Jul 26 0727:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	58	-	-
1987-W199	2447005.80	1987 Jul 29 0706:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	64	-	-
1987-W220	2447043.33	1987 Sep 04 2000:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W226	2447050.30	1987 Sep 11 1916:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W229	2447055.30	1987 Sep 16 1918:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W231	2447057.30	1987 Sep 18 1917:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W238	2447062.30	1987 Sep 23 1915:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W239	2447064.30	1987 Sep 25 1905:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W242	2447069.30	1987 Sep 30 1916:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60?	-	-
1987-W244	2447071.30	1987 Oct 02 1919:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	56	-	-
1987-W275	2447112.80	1987 Nov 13 0718:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1987-W279	2447117.87	1987 Nov 18 0856:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1987-W286	2447126.81	1987 Nov 27 0722:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1987-W289	2447128.91	1987 Nov 29 0951:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP1	-	-	57	-	-
1987-W290	2447130.88	1987 Dec 01 0906:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP2	-	-	58	-	-
1987-W293	2447131.80	1987 Dec 02 0717:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1987-W296	2447132.92	1987 Dec 03 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP3	-	-	60	-	-
1987-W298	2447133.82	1987 Dec 04 0740:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	62	-	-
1987-W301	2447137.09	1987 Dec 07 1405:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP4	-	-	56	-	-
1987-W303	2447138.79	1987 Dec 09 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1987-W306	2447140.79	1987 Dec 11 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W30	2447206.80	1988 Feb 15 0710:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	63	-	-
1988-W33	2447208.79	1988 Feb 17 0702:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W34	2447210.79	1988 Feb 19 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	57	-	-
1988-W35	2447214.93	1988 Feb 23 1018:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP5	-	-	59	-	-
1988-W37	2447215.79	1988 Feb 24 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W38	2447215.96	1988 Feb 24 1105:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP6	-	-	56	-	-
1988-W41	2447217.02	1988 Feb 25 1231:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP7	-	-	58	-	-
1988-W43	2447217.79	1988 Feb 26 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W44	2447217.96	1988 Feb 26 1108:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP8	-	-	57	-	-
1988-W45	2447218.96	1988 Feb 27 1105:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP9	-	-	59	-	-
1988-W47	2447219.97	1988 Feb 28 1113:00	MMR-06	-	-	-	-	-	PRILIV	GMS87G	LP10	-	-	60	-	-
1988-W48	2447220.79	1988 Feb 29 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W49	2447222.79	1988 Mar 02 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W51	2447224.79	1988 Mar 04 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W53	2447229.79	1988 Mar 09 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W56	2447231.79	1988 Mar 11 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	61	-	-
1988-W60	2447238.82	1988 Mar 18 0742:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1988-W64	2447243.79	1988 Mar 23 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W65	2447245.80	1988 Mar 25 0716:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1988-W68	2447250.76	1988 Mar 30 0609:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	59	-	-
1988-W70	2447252.78	1988 Apr 01 0648:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1988-W71	2447255.75	1988 Apr 04 0603:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1988-W72	2447257.75	1988 Apr 06 0605:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1988-W74	2447259.01	1988 Apr 07 1210:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP1	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-W77	2447261.92	1988 Apr 10 1006:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP2	-	-	57	-	-
1988-W78	2447262.11	1988 Apr 10 1445:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP3	-	-	58	-	-
1988-W81	2447264.79	1988 Apr 13 0702:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1988-W90	2447267.92	1988 Apr 16 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP4	-	-	58	-	-
1988-W91	2447268.93	1988 Apr 17 1025:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP5	-	-	59	-	-
1988-W92	2447269.93	1988 Apr 18 1025:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP6	-	-	55	-	-
1988-W93	2447270.05	1988 Apr 18 1312:00	MMR-06	-	-	-	-	-	PRILIV	GMS88B	LP7	-	-	60?	-	-
1988-W112	2447306.79	1988 May 25 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W113	2447308.79	1988 May 27 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W114	2447310.79	1988 May 29 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W116	2447313.79	1988 Jun 01 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W117	2447315.79	1988 Jun 03 0701:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W122	2447320.79	1988 Jun 08 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W123	2447322.79	1988 Jun 10 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W126	2447329.79	1988 Jun 17 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W128	2447334.79	1988 Jun 22 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W130	2447336.79	1988 Jun 24 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W151	2447401.75	1988 Aug 28 0606:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W153	2447404.79	1988 Aug 31 0701:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W155	2447406.79	1988 Sep 02 0701:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	60	-	-
1988-W157	2447413.79	1988 Sep 09 0701:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W158	2447415.79	1988 Sep 11 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W159	2447418.79	1988 Sep 14 0702:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W163	2447420.80	1988 Sep 16 0705:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-W164	2447425.80	1988 Sep 21 0707:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	58	-	-
1988-W168	2447427.80	1988 Sep 23 0707:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA	-	-	-	59	-	-
1988-A08	2447456.07	1988 Oct 21 1335	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	1	-	-
1988-W185	2447461.19	1988 Oct 26 1630:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	61	-	-
1988-W187	2447467.04	1988 Nov 1 1301	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	67	-	-
1988-W188	2447467.80	1988 Nov 02 0707:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W189	2447467.97	1988 Nov 02 1110:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	63	-	-
1988-A09	2447470.06	1988 Nov 4 1320	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	43	-	-
1988-W190	2447474.05	1988 Nov 8 1311	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	78	-	-
1988-W192	2447474.80	1988 Nov 09 0707:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1988-W193	2447474.88	1988 Nov 09 0900:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	63	-	-
1988-W194	2447476.79	1988 Nov 11 0703:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W195	2447479.79	1988 Nov 14 0700:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W198	2447481.79	1988 Nov 16 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1988-W199	2447483.79	1988 Nov 18 0702:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W200	2447488.06	1988 Nov 22 1320	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	53	-	-
1988-W201	2447488.80	1988 Nov 23 0716:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1988-W203	2447489.04	1988 Nov 23 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	76	-	-
1988-W204	2447493.80	1988 Nov 28 0705:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1988-W219	2447510.98	1988 Dec 15 1130:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	61	-	-
1988-W220	2447513.83	1988 Dec 18 0800:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP1	-	-	59	-	-
1988-W221	2447515.83	1988 Dec 20 0800:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP2	-	-	58	-	-
1988-W223	2447516.92	1988 Dec 21 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP3	-	-	55	-	-
1988-W224	2447517.92	1988 Dec 22 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP4	-	-	60	-	-
1988-W225	2447520.96	1988 Dec 25 1059:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP5	-	-	57	-	-
1988-W226	2447523.06	1988 Dec 27 1332:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1988-W227	2447523.12	1988 Dec 27 1500:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1988-W229	2447523.96	1988 Dec 28 1109:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP6	-	-	59	-	-
1988-W231	2447524.13	1988 Dec 28 1510:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1989-W01	2447528.22	1989 Jan 01 1711:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP7	-	-	60	-	-
1989-W02	2447528.89	1989 Jan 02 0924:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP8	-	-	60	-	-
1989-W03	2447529.97	1989 Jan 03 1114:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP9	-	-	55	-	-
1989-W04	2447530.84	1989 Jan 04 0810:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1989-W05	2447530.94	1989 Jan 04 1030:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	62	-	-
1989-W09	2447531.95	1989 Jan 05 1046:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP10	-	-	58	-	-
1989-W10	2447532.79	1989 Jan 06 0704:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	56	-	-
1989-W11	2447532.95	1989 Jan 06 1049:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP11	-	-	58	-	-
1989-W12	2447533.93	1989 Jan 07 1013:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP12	-	-	62	-	-
1989-W13	2447534.04	1989 Jan 07 1251:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP13	-	-	56	-	-
1989-W15	2447535.80	1989 Jan 09 0705:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1989-W18	2447536.04	1989 Jan 09 1252:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP14	-	-	55	-	-
1989-W20	2447537.85	1989 Jan 11 0830:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1989-W22	2447538.11	1989 Jan 11 1444:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP15	-	-	57	-	-
1989-W24	2447538.94	1989 Jan 12 1030:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	61	-	-
1989-W25	2447539.87	1989 Jan 13 0857:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	60	-	-
1989-W26	2447539.99	1989 Jan 13 1151:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP16	-	-	56	-	-
1989-W27	2447541.79	1989 Jan 15 0702:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	65	-	-
1989-W28	2447544.79	1989 Jan 18 0701:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	63	-	-
1989-W31	2447546.79	1989 Jan 20 0702:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1989-W34	2447551.81	1989 Jan 25 0721:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	61	-	-
1989-W35	2447552.04	1989 Jan 25 1300:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	63	-	-
1989-W41	2447553.22	1989 Jan 26 1720:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1989-W43	2447553.86	1989 Jan 27 0839:00	MMR-06	-	-	-	-	-	BUGAEV	MINIA	-	-	-	63	-	-
1989-W44	2447557.04	1989 Jan 30 1300:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	59	-	-
1989-W45	2447558.81	1989 Feb 01 0722:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	53	-	-
1989-W47	2447560.80	1989 Feb 03 0709:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	57	-	-
1989-W49	2447562.80	1989 Feb 05 0706:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1989-W50	2447565.79	1989 Feb 08 0704:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	61	-	-
1989-W57	2447569.79	1989 Feb 12 0704:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1989-W59	2447574.79	1989 Feb 17 0703:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	67	-	-
1989-W60	2447579.79	1989 Feb 22 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	60	-	-
1989-W62	2447580.08	1989 Feb 22 1400:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-W66	2447582.08	1989 Feb 24 1400:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	76	-	-
1989-W88	2447602.03	1989 Mar 16 1247:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP17	-	-	57	-	-
1989-W90	2447603.00	1989 Mar 17 1155:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP18	-	-	59	-	-
1989-W98	2447604.94	1989 Mar 19 1030:00	MMR-06	-	-	-	-	-	PRILIV	GMS88D	LP19	-	-	62	-	-
1989-W106	2447624.04	1989 Apr 7 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	72	-	-
1989-W103	2447620.06	1989 Apr 03 1330:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	63	-	-
1989-W109	2447629.04	1989 Apr 12 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	76	-	-
1989-W112	2447636.00	1989 Apr 19 1200:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	57	-	-
1989-W113	2447636.04	1989 Apr 19 1300:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	60	-	-
1989-W116	2447643.03	1989 Apr 26 1240	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	75	-	-
1989-W121	2447649.80	1989 May 03 0715:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1989-W135	2447656.80	1989 May 10 0711:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1989-W136	2447657.01	1989 May 10 1210	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1989-W139	2447658.79	1989 May 12 0703:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	65	-	-
1989-W141	2447663.79	1989 May 17 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1989-W144	2447665.79	1989 May 19 0701:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	65	-	-
1989-W147	2447670.80	1989 May 24 0715:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1989-W149	2447671.01	1989 May 24 1210	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	55	-	-
1989-W152	2447672.79	1989 May 26 0703:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	63	-	-
1989-W155	2447679.79	1989 Jun 02 0703:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	57	-	-
1989-W156	2447681.79	1989 Jun 04 0702:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	60	-	-
1989-W158	2447684.80	1989 Jun 07 0708:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	64	-	-
1989-W161	2447686.80	1989 Jun 09 0705:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1989-W167	2447693.79	1989 Jun 16 0703:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	62	-	-
1989-W171	2447698.79	1989 Jun 21 0704:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1989-W174	2447699.02	1989 Jun 21 1230	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1989-W177	2447700.80	1989 Jun 23 0717:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	61	-	-
1989-W179	2447705.80	1989 Jun 28 0714:00	MMR-06	-	-	-	-	-	MUSSON	MINIA	-	-	-	62	-	-
1989-W216	2447771.25	1989 Sep 01 1800:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	62	-	-
1989-W220	2447776.03	1989 Sep 6 1238	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1989-W221	2447778.08	1989 Sep 08 1400:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	73	-	-
1989-W232	2447810.05	1989 Oct 10 1310	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1989-W237	2447815.80	1989 Oct 16 0717:00	MMR-06	-	-	[M-100B in R.File]	-	-	USHAKOV	MINIA?	-	-	-	65	-	-
1989-W240	2447817.85	1989 Oct 18 0820:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	66	-	-
1989-W242	2447818.04	1989 Oct 18 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1989-W247	2447821.79	1989 Oct 22 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	64	-	-
1989-W248	2447821.84	1989 Oct 22 0809:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	64	-	-
1989-W249	2447822.79	1989 Oct 23 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	62	-	-
1989-W250	2447822.86	1989 Oct 23 0832:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	56	-	-
1989-W254	2447824.80	1989 Oct 25 0715:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	64	-	-
1989-A10	2447832.04	1989 Nov 1 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	35	-	-
1989-W262	2447834.79	1989 Nov 04 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	60	-	-
1989-W264	2447838.79	1989 Nov 08 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1989-W266	2447839.05	1989 Nov 8 1310	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	73	-	-
1989-W268	2447840.80	1989 Nov 10 0708:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	65	-	-
1989-W269	2447845.79	1989 Nov 15 0700:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	64	-	-
1989-W271	2447847.80	1989 Nov 17 0716:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	63	-	-
1989-W274	2447852.79	1989 Nov 22 0704:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	64	-	-
1989-W282	2447857.79	1989 Nov 27 0702:00	MMR-06	-	-	-	-	-	KREN	MINIA	-	-	-	63	-	-
1989-W294	2447869.04	1989 Dec 8 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	75	-	-
1989-W303	2447881.07	1989 Dec 20 1340	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	78	-	-
1990-W01	2447893.04	1990 Jan 01 1300:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP1	-	-	55	-	-
1990-W04	2447894.92	1990 Jan 03 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP2	-	-	55	-	-
1990-W02	2447894.84	1990 Jan 03 0815:00	MMR-06	-	-	-	-	-	PASSAT	MINIA	-	-	-	62	-	-
1990-W06	2447896.81	1990 Jan 05 0725:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W07	2447897.10	1990 Jan 05 1430:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP3	-	-	60	-	-
1990-W05	2447896.80	1990 Jan 05 0710:00	MMR-06	-	-	-	-	-	PASSAT	GMS90B	LP2	-	-	65	-	-
1990-W08	2447898.05	1990 Jan 06 1317:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP4	-	-	55	-	-
1990-W09	2447899.81	1990 Jan 08 0729:00	MMR-06	-	-	-	-	-	PASSAT	GMS90B	LP3	-	-	60	-	-
1990-W14	2447901.80	1990 Jan 10 0719:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W15	2447902.04	1990 Jan 10 1300	MMR-06	-	-	DYANA DZD1	-	-	-	ZINGST	-	-	-	75	-	-
1990-W20	2447902.97	1990 Jan 11 1115:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP5	-	-	55	-	-
1990-W21	2447903.80	1990 Jan 12 0705:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	57	-	-
1990-W22	2447903.85	1990 Jan 12 0824:00	MMR-06	-	-	-	-	-	PASSAT	GMS90B	LP4	-	-	61	-	-
1990-W23	2447904.92	1990 Jan 13 1010:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP5	-	-	58	-	-
1990-W25	2447908.79	1990 Jan 17 0704:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	55	-	-
1990-W26	2447908.88	1990 Jan 17 0908:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP5	-	-	55	-	-
1990-W33	2447910.79	1990 Jan 19 0704:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W35	2447911.04	1990 Jan 19 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	55	-	-
1990-W38	2447912.95	1990 Jan 21 1050:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP6	-	-	55	-	-
1990-W39	2447913.92	1990 Jan 22 1000:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP7	-	-	57	-	-
1990-W41	2447914.92	1990 Jan 23 1009:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP8	-	-	55	-	-
1990-W44	2447915.79	1990 Jan 24 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W46	2447915.93	1990 Jan 24 1023:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP9	-	-	55	-	-
1990-W50	2447916.95	1990 Jan 25 1044:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP10	-	-	55	-	-
1990-W51	2447917.79	1990 Jan 26 0700:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W53	2447918.05	1990 Jan 26 1313:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP11	-	-	50	-	-
1990-W54	2447920.82	1990 Jan 29 0739:00	MMR-06	-	-	-	-	-	PASSAT	GMS90B	LP5	-	-	60	-	-
1990-W59	2447922.80	1990 Jan 31 0711:00	MMR-06	-	-	-	-	-	USHAKOV	MINIA?	-	-	-	60	-	-
1990-W58	2447922.80	1990 Jan 31 0708:00	MMR-06	-	-	-	-	-	PASSAT	GMS90B	LP6	-	-	60	-	-
1990-W74	2447931.80	1990 Feb 09 0709:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	57	-	-
1990-W75	2447934.80	1990 Feb 12 0706:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	62	-	-
1990-W77	2447936.79	1990 Feb 14 0703:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	55	-	-
1990-W80	2447937.04	1990 Feb 14 1300	MMR-06	-	-	DYANA DZD2	-	-	-	ZINGST	-	-	-	79	-	-
1990-W83	2447938.79	1990 Feb 16 0703:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-
1990-W89	2447943.79	1990 Feb 21 0703:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-W96	2447945.79	1990 Feb 23 0703:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-
1990-W99	2447950.80	1990 Feb 28 0705:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	56	-	-
1990-W103	2447952.82	1990 Mar 02 0740:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-
1990-W110	2447957.79	1990 Mar 07 0702:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-
1990-W115	2447959.83	1990 Mar 09 0754:00	MMR-06	-	-	-	-	-	KREN	MINIA?	-	-	-	60	-	-
1990-W120	2447961.96	1990 Mar 11 1058:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP12	-	-	55	-	-
1990-W127	2447965.04	1990 Mar 14 1256:00	MMR-06	-	-	-	-	-	PRILIV	GMS90A	LP13	-	-	55	-	-
1990-W130	2447972.06	1990 Mar 21 1320	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	65	-	-
1990-W133	2447972.14	1990 Mar 21 1525:00	MMR-06	-	-	-	-	-	-	GTsP-4	-	-	-	75	-	-
1990-W135	2447979.08	1990 Mar 28 1400	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1990-W140	2448021.00	1990 May 9 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1990-W141	2448023.00	1990 May 11 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1990-W142	2448042.00	1990 May 30 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	66	-	-
1990-W143	2448051.00	1990 Jun 8 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	76	-	-
1990-W144	2448056.00	1990 Jun 13 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1990-W145	2448063.01	1990 Jun 20 1210	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1990-W157	2448147.00	1990 Sep 12 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1990-W161	2448161.00	1990 Sep 26 1200	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	79	-	-
1990-A07	2448170.04	1990 Oct 5 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	38	-	-
1990-W171	2448177.04	1990 Oct 12 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	53	-	-
1990-W172	2448182.04	1990 Oct 17 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1990-W174	2448182.07	1990 Oct 17 1340	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	79	-	-
1990-W176	2448197.83	1990 Nov 02 0801:00	MMR-06	-	-	-	-	-	PASSAT	GMS90E	LP1	-	-	63	-	-
1990-A08	2448198.04	1990 Nov 2 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	42	-	-
1990-W177	2448198.07	1990 Nov 2 1340	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1990-W178	2448200.84	1990 Nov 05 0814:00	MMR-06	-	-	-	-	-	PASSAT	GMS90E	-	-	-	64	-	-
1990-W179	2448202.81	1990 Nov 07 0726:00	MMR-06	-	-	-	-	-	PASSAT	GMS90E	-	-	-	64	-	-
1990-W181	2448219.04	1990 Nov 23 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	68	-	-
1990-W184	2448231.06	1990 Dec 5 1330	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	75	-	-
1990-W185	2448240.04	1990 Dec 14 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	72	-	-
1990-W186	2448245.04	1990 Dec 19 1300	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	66	-	-
1990-W187	2448245.06	1990 Dec 19 1330	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	71	-	-
1990-W189	2448256.80	1990 Dec 31 0706:00	MMR-06	-	-	-	-	-	BUGAEV	GMS90F	LP1	-	-	62	-	-
1992-W11	2448666.83	1992 Feb 14 0750	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	70	-	-
1992-W15	2448671.82	1992 Feb 19 0745	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	73	-	-
1992-W16	2448673.81	1992 Feb 21 0730	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	77	-	-
1992-W20	2448678.81	1992 Feb 26 0730	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	55	-	-
1992-W21	2448678.87	1992 Feb 26 0850	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	54	-	-
1992-W22	2448680.81	1992 Feb 28 0731	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	70	-	-
1992-A03	2448687.81	1992 Mar 6 0732	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	49	-	-
1992-W23	2448687.85	1992 Mar 6 0824	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	79	-	-
1992-W24	2448692.81	1992 Mar 11 0732	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	76	-	-
1992-W25	2448692.85	1992 Mar 11 0827	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	74	-	-
1992-A05	2448701.82	1992 Mar 20 0740	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	37	-	-
1992-W30	2448701.87	1992 Mar 20 0858	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	75	-	-
1992-W33	2448706.81	1992 Mar 25 0732	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	51	-	-
1992-W34	2448706.85	1992 Mar 25 0825	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	51?	-	-
1992-W35	2448708.81	1992 Mar 27 0733	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	73	-	-
1992-W36	2448713.77	1992 Apr 1 0633	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	52	-	-
1992-A07	2448715.77	1992 Apr 3 0630	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	20?	-	-
1992-W39	2448715.81	1992 Apr 3 0720	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	75	-	-
1992-W43	2448722.77	1992 Apr 10 0630	MMR-06	-	-	-	-	-	-	ZINGST	-	-	-	67	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-M39	2440507.50	1969 Oct 13	MMR-06	-	MMR-06	0.000	TSAO	SS	-	TSAO/Kokin	Aeron	TT-F-17507	-	-
1969-M40	2440508.50	1969 Oct 14	MMR-06	-	MMR-06	0.000	TSAO	SS	-	TSAO/Kokin	Aeron	TT-F-17507	-	-
1976-W208	2442818.79	1976 Feb 10 0700:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W220	2442820.79	1976 Feb 12 0700:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W230	2442821.88	1976 Feb 13 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W240	2442824.79	1976 Feb 16 0700:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W244	2442825.88	1976 Feb 17 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W303	2442835.79	1976 Feb 27 0700:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W338	2442840.88	1976 Mar 03 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W359	2442842.92	1976 Mar 05 1000:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W367	2442844.83	1976 Mar 07 0800:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W368	2442845.83	1976 Mar 08 0800:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W391	2442848.88	1976 Mar 11 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W392	2442848.92	1976 Mar 11 1000:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W405	2442852.88	1976 Mar 15 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W406	2442852.92	1976 Mar 15 1000:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W589	2442889.62	1976 Apr 21 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W622	2442896.58	1976 Apr 28 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W658	2442901.58	1976 May 03 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W713	2442910.62	1976 May 12 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W751	2442917.58	1976 May 19 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W787	2442923.62	1976 May 25 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W800	2442925.62	1976 May 27 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W852	2442938.62	1976 Jun 09 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W875	2442944.71	1976 Jun 15 0500:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W887	2442946.75	1976 Jun 17 0600:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1119	2443002.58	1976 Aug 12 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1208	2443018.58	1976 Aug 28 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1250	2443025.62	1976 Sep 04 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1264	2443029.62	1976 Sep 08 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1277	2443030.58	1976 Sep 09 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1298	2443036.58	1976 Sep 15 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1330	2443042.58	1976 Sep 21 0200:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1383	2443050.62	1976 Sep 29 0300:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1426	2443056.58	1976 Oct 5 0200	MMR-06	-	-	0.000	GMS	SS	-	GMS/?	Aeron	WDCRF	-	-
1976-W1457	2443064.58	1976 Oct 13 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1483	2443067.83	1976 Oct 16 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1490	2443070.92	1976 Oct 19 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1641	2443096.92	1976 Nov 14 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1665	2443100.79	1976 Nov 18 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1854	2443133.88	1976 Dec 21 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1896	2443143.88	1976 Dec 31 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1976-W1897	2443143.92	1976 Dec 31 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W12	2443146.96	1977 Jan 03 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W26	2443148.92	1977 Jan 05 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W286	2443180.58	1977 Feb 06 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W341	2443187.62	1977 Feb 13 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W414	2443201.58	1977 Feb 27 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W434	2443204.58	1977 Mar 02 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W453	2443206.58	1977 Mar 04 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W475	2443211.62	1977 Mar 09 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W489	2443213.58	1977 Mar 11 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W525	2443219.62	1977 Mar 17 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W526	2443219.92	1977 Mar 17 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W531	2443220.88	1977 Mar 18 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W550	2443225.67	1977 Mar 23 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W551	2443225.96	1977 Mar 23 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W565	2443227.58	1977 Mar 25 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W568	2443227.92	1977 Mar 25 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W591	2443232.92	1977 Mar 30 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W602	2443233.67	1977 Mar 31 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W603	2443233.75	1977 Mar 31 0600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W618	2443236.62	1977 Apr 03 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W619	2443237.67	1977 Apr 04 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W657	2443246.62	1977 Apr 13 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W672	2443247.92	1977 Apr 14 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W691	2443252.92	1977 Apr 19 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W693	2443253.88	1977 Apr 20 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W708	2443254.88	1977 Apr 21 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W720	2443256.88	1977 Apr 23 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W728	2443259.88	1977 Apr 26 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W745	2443262.71	1977 Apr 29 0500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W758	2443263.96	1977 Apr 30 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W770	2443266.96	1977 May 03 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W773	2443267.58	1977 May 04 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W788	2443269.71	1977 May 06 0500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W812	2443274.58	1977 May 11 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W846	2443281.58	1977 May 18 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W883	2443288.64	1977 May 25 0320:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W928	2443295.58	1977 Jun 01 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W942	2443296.58	1977 Jun 02 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W945	2443297.67	1977 Jun 03 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W953	2443298.67	1977 Jun 04 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W961	2443302.58	1977 Jun 08 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W962	2443302.62	1977 Jun 08 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W999	2443309.62	1977 Jun 15 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1000	2443309.67	1977 Jun 15 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1024	2443311.58	1977 Jun 17 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1043	2443315.58	1977 Jun 21 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1048	2443317.08	1977 Jun 22 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1054	2443317.19	1977 Jun 22 1640:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1074	2443320.58	1977 Jun 26 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1089	2443323.62	1977 Jun 29 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1090	2443323.67	1977 Jun 29 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1155	2443338.33	1977 Jul 13 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1198	2443345.25	1977 Jul 20 1800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1204	2443345.33	1977 Jul 20 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1251	2443351.67	1977 Jul 27 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1257	2443352.29	1977 Jul 27 1900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1259	2443352.38	1977 Jul 27 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1272	2443354.29	1977 Jul 29 1900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1274	2443354.33	1977 Jul 29 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1309	2443359.42	1977 Aug 03 2200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1322	2443361.38	1977 Aug 05 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1347	2443366.38	1977 Aug 10 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1355	2443368.38	1977 Aug 12 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1374	2443373.38	1977 Aug 17 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1380	2443375.38	1977 Aug 19 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1408	2443382.38	1977 Aug 26 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1427	2443387.42	1977 Aug 31 2200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1441	2443393.58	1977 Sep 07 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1569	2443424.58	1977 Oct 08 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1570	2443424.67	1977 Oct 08 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1585	2443429.58	1977 Oct 13 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1592	2443431.58	1977 Oct 15 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1593	2443431.67	1977 Oct 15 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1611	2443436.54	1977 Oct 20 0100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1613	2443436.62	1977 Oct 20 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1624	2443438.62	1977 Oct 22 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1640	2443443.58	1977 Oct 27 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1806	2443479.58	1977 Dec 02 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1825	2443484.58	1977 Dec 07 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1855	2443491.58	1977 Dec 14 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1885	2443498.58	1977 Dec 21 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1977-W1904	2443505.62	1977 Dec 28 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W118	2443540.58	1978 Feb 01 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W128	2443542.62	1978 Feb 03 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W146	2443547.62	1978 Feb 08 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W159	2443549.58	1978 Feb 10 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W175	2443554.67	1978 Feb 15 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W176	2443554.97	1978 Feb 15 1110:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W193	2443556.62	1978 Feb 17 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-Y77	2443560.97	1978 Feb 21 1120:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W214	2443561.58	1978 Feb 22 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W215	2443561.95	1978 Feb 22 1050:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-Y80	2443562.01	1978 Feb 22 1210:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W232	2443563.65	1978 Feb 24 0335:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-Y86	2443563.94	1978 Feb 24 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W321	2443584.79	1978 Mar 17 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W322	2443584.83	1978 Mar 17 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W328	2443586.88	1978 Mar 19 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W336	2443588.79	1978 Mar 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W353	2443591.83	1978 Mar 24 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W359	2443593.79	1978 Mar 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W369	2443596.79	1978 Mar 29 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W370	2443596.83	1978 Mar 29 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W384	2443598.83	1978 Mar 31 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W390	2443600.17	1978 Apr 01 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W391	2443600.21	1978 Apr 01 1700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W409	2443607.79	1978 Apr 09 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W417	2443610.79	1978 Apr 12 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W418	2443610.83	1978 Apr 12 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W437	2443613.83	1978 Apr 15 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W673	2443681.16	1978 Jun 21 1545:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W695	2443688.16	1978 Jun 28 1545:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W788	2443718.12	1978 Jul 28 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W789	2443718.17	1978 Jul 28 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W795	2443720.12	1978 Jul 30 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W796	2443720.17	1978 Jul 30 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W806	2443723.25	1978 Aug 02 1800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W913	2443752.58	1978 Sep 01 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W925	2443757.58	1978 Sep 06 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W934	2443759.62	1978 Sep 08 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W949	2443764.83	1978 Sep 13 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W959	2443766.83	1978 Sep 15 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W971	2443771.83	1978 Sep 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W987	2443773.88	1978 Sep 22 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1003	2443778.88	1978 Sep 27 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1012	2443780.83	1978 Sep 29 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1119	2443813.83	1978 Nov 01 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1128	2443815.79	1978 Nov 03 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1140	2443820.79	1978 Nov 08 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W1152	2443822.83	1978 Nov 10 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1163	2443827.83	1978 Nov 15 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1978-W1174	2443829.79	1978 Nov 17 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W26	2443876.88	1979 Jan 03 0900:00	MMR-06	-	MMR-06	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W144	2443899.83	1979 Jan 26 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W167	2443904.83	1979 Jan 31 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W183	2443906.83	1979 Feb 02 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W202	2443911.79	1979 Feb 07 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W219	2443913.79	1979 Feb 09 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W237	2443918.79	1979 Feb 14 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W316	2443932.79	1979 Feb 28 0700:00	MMR-06	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-W531	2443987.21	1979 Apr 23 1700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W536	2443988.83	1979 Apr 25 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W548	2443990.83	1979 Apr 27 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W639	2444010.38	1979 May 16 2100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W651	2444012.33	1979 May 18 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W659	2444015.33	1979 May 21 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W673	2444017.33	1979 May 23 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W677	2444018.33	1979 May 24 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W692	2444021.33	1979 May 27 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W691	2444020.83	1979 May 27 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W696	2444022.33	1979 May 28 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W700	2444023.33	1979 May 29 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W714	2444025.83	1979 Jun 01 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W730	2444030.83	1979 Jun 06 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W743	2444032.79	1979 Jun 08 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W756	2444037.83	1979 Jun 13 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W768	2444039.79	1979 Jun 15 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W786	2444044.83	1979 Jun 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W794	2444046.79	1979 Jun 22 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W814	2444051.79	1979 Jun 27 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W845	2444058.83	1979 Jul 04 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W865	2444065.83	1979 Jul 11 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W876	2444067.08	1979 Jul 12 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W877	2444067.12	1979 Jul 12 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W878	2444067.17	1979 Jul 12 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W903	2444072.83	1979 Jul 18 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1291	2444179.40	1979 Nov 01 2140:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1311	2444184.83	1979 Nov 07 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1312	2444184.88	1979 Nov 07 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-Y546	2444193.83	1979 Nov 16 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1354	2444198.82	1979 Nov 21 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1379	2444207.81	1979 Nov 30 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-Y578	2444218.96	1979 Dec 11 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1405	2444219.81	1979 Dec 12 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1430	2444226.83	1979 Dec 19 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1447	2444231.81	1979 Dec 24 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1449	2444231.92	1979 Dec 24 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1451	2444232.16	1979 Dec 24 1545:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1979-W1453	2444233.80	1979 Dec 26 0715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W43	2444252.94	1980 Jan 14 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W44	2444253.00	1980 Jan 14 1200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W45	2444253.06	1980 Jan 14 1330:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W53	2444255.00	1980 Jan 16 1200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W54	2444255.06	1980 Jan 16 1330:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-Y35	2444256.94	1980 Jan 18 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-Y36	2444257.06	1980 Jan 18 1330:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W66	2444257.12	1980 Jan 18 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W119	2444275.79	1980 Feb 06 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W126	2444278.17	1980 Feb 08 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W128	2444279.15	1980 Feb 09 1540:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W149	2444284.85	1980 Feb 15 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W165	2444289.83	1980 Feb 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W180	2444295.08	1980 Feb 25 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W183	2444295.19	1980 Feb 25 1630:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W184	2444295.27	1980 Feb 25 1830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W186	2444296.10	1980 Feb 26 1430:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W187	2444296.28	1980 Feb 26 1840:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W189	2444297.06	1980 Feb 27 1320:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W192	2444297.23	1980 Feb 27 1730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W188	2444296.83	1980 Feb 27 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W194	2444298.06	1980 Feb 28 1320:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W195	2444298.10	1980 Feb 28 1420:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W196	2444298.15	1980 Feb 28 1530:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W197	2444298.21	1980 Feb 28 1700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W198	2444298.25	1980 Feb 28 1800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W206	2444299.01	1980 Feb 29 1220:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W204	2444298.81	1980 Feb 29 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W205	2444298.88	1980 Feb 29 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W215	2444301.67	1980 Mar 03 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W224	2444303.88	1980 Mar 05 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W247	2444310.83	1980 Mar 12 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W260	2444312.83	1980 Mar 14 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W279	2444317.79	1980 Mar 19 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W288	2444319.79	1980 Mar 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W306	2444324.83	1980 Mar 26 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W315	2444326.83	1980 Mar 28 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W390	2444348.88	1980 Apr 19 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W402	2444352.88	1980 Apr 23 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W413	2444354.88	1980 Apr 25 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W487	2444376.96	1980 May 17 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W529	2444388.92	1980 May 29 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W535	2444390.88	1980 May 31 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W536	2444390.92	1980 May 31 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W538	2444392.96	1980 Jun 02 1100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W606	2444409.27	1980 Jun 18 1830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W632	2444417.54	1980 Jun 27 0100:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W638	2444418.50	1980 Jun 28 0000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-Y385	2444478.39	1980 Aug 26 2120:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W825	2444486.10	1980 Sep 03 1430:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-Y396	2444486.23	1980 Sep 03 1730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W829	2444486.29	1980 Sep 03 1900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W833	2444487.85	1980 Sep 05 0820:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-A35	2444492.12	1980 Sep 09 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W846	2444492.19	1980 Sep 09 1630:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W847	2444492.25	1980 Sep 09 1800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W850	2444492.82	1980 Sep 10 0735:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W858	2444494.82	1980 Sep 12 0735:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W882	2444501.81	1980 Sep 19 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W896	2444506.79	1980 Sep 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W921	2444513.79	1980 Oct 01 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W922	2444513.88	1980 Oct 01 0900:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W931	2444515.79	1980 Oct 03 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W945	2444520.79	1980 Oct 08 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W958	2444527.83	1980 Oct 15 0800:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W972	2444529.79	1980 Oct 17 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W984	2444534.83	1980 Oct 22 0800:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W992	2444536.83	1980 Oct 24 0800:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1007	2444541.88	1980 Oct 29 0900:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1040	2444557.81	1980 Nov 14 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1041	2444557.89	1980 Nov 14 0920:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1042	2444558.01	1980 Nov 14 1220:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1050	2444561.93	1980 Nov 18 1020:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1980-W1051	2444561.98	1980 Nov 18 1130:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W15	2444619.12	1981 Jan 14 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W13	2444619.04	1981 Jan 14 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W16	2444620.04	1981 Jan 15 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W19	2444622.08	1981 Jan 17 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W23	2444625.04	1981 Jan 20 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W24	2444625.04	1981 Jan 20 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W26	2444626.06	1981 Jan 21 1330:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W51	2444639.79	1981 Feb 04 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W62	2444641.79	1981 Feb 06 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W63	2444641.86	1981 Feb 06 0845:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W72	2444646.08	1981 Feb 10 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W82	2444648.85	1981 Feb 13 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W91	2444653.81	1981 Feb 18 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W92	2444653.86	1981 Feb 18 0840:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W100	2444656.12	1981 Feb 20 1500:00	MMR-06	-	FLIGHT 296	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W101	2444656.21	1981 Feb 20 1700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W105	2444658.06	1981 Feb 22 1320:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W107	2444659.12	1981 Feb 23 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W113	2444660.07	1981 Feb 24 1340:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W116	2444661.02	1981 Feb 25 1230:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W188	2444687.12	1981 Mar 23 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W199	2444690.12	1981 Mar 26 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W201	2444690.17	1981 Mar 26 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-Y128	2444696.17	1981 Apr 01 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W219	2444697.12	1981 Apr 02 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W225	2444700.17	1981 Apr 05 1600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-Y134	2444703.10	1981 Apr 08 1430:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W235	2444703.19	1981 Apr 08 1630:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W289	2444716.62	1981 Apr 22 0300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W290	2444716.67	1981 Apr 22 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W300	2444722.04	1981 Apr 27 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W303	2444722.10	1981 Apr 27 1420:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W305	2444722.19	1981 Apr 27 1635:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W306	2444722.23	1981 Apr 27 1730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W316	2444725.83	1981 May 01 0750:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W323	2444730.85	1981 May 06 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W327	2444732.79	1981 May 08 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W346	2444739.83	1981 May 15 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W355	2444744.83	1981 May 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W362	2444746.83	1981 May 22 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W366	2444748.85	1981 May 24 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W373	2444751.81	1981 May 27 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W383	2444753.86	1981 May 29 0840:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W396	2444758.81	1981 Jun 03 0730:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W403	2444760.79	1981 Jun 05 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W413	2444765.79	1981 Jun 10 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W419	2444767.79	1981 Jun 12 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W423	2444772.79	1981 Jun 17 0700:00	MMR-06	-	-	0.000	GOIG	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W429	2444774.79	1981 Jun 19 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-Y246	2444777.58	1981 Jun 22 0200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W431	2444777.67	1981 Jun 22 0400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W432	2444777.75	1981 Jun 22 0600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W433	2444777.83	1981 Jun 22 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W434	2444777.92	1981 Jun 22 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W439	2444778.71	1981 Jun 23 0500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W440	2444778.75	1981 Jun 23 0600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-A15	2444778.79	1981 Jun 23 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-A16	2444778.83	1981 Jun 23 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W443	2444779.83	1981 Jun 24 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W451	2444781.79	1981 Jun 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W455	2444783.79	1981 Jun 28 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W584	2444851.88	1981 Sep 04 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W595	2444856.88	1981 Sep 09 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W601	2444858.82	1981 Sep 11 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W615	2444863.88	1981 Sep 16 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W632	2444872.83	1981 Sep 25 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W642	2444877.83	1981 Sep 30 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W649	2444879.83	1981 Oct 02 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W664	2444884.83	1981 Oct 07 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W684	2444898.79	1981 Oct 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W697	2444905.83	1981 Oct 28 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W716	2444914.79	1981 Nov 06 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W724	2444919.82	1981 Nov 11 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W750	2444926.79	1981 Nov 18 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1981-W767	2444933.79	1981 Nov 25 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W01	2444970.83	1982 Jan 01 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W07	2444975.81	1982 Jan 06 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W12	2444977.83	1982 Jan 08 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W21	2444982.79	1982 Jan 13 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W29	2444984.83	1982 Jan 15 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W49	2444991.81	1982 Jan 22 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W66	2444997.00	1982 Jan 27 1200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W65	2444996.83	1982 Jan 27 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W73	2444998.79	1982 Jan 29 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W109	2445012.81	1982 Feb 12 0730:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W122	2445017.79	1982 Feb 17 0700:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W129	2445019.88	1982 Feb 19 0900:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W134	2445021.79	1982 Feb 21 0700:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W136	2445022.79	1982 Feb 22 0700:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W141	2445024.79	1982 Feb 24 0700:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W149	2445026.79	1982 Feb 26 0700:00	MMR-06	-	MMR-06	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W152	2445028.87	1982 Feb 28 0850:00	MMR-06	-	-	0.000	GMS	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W237	2445066.79	1982 Apr 07 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W240	2445068.83	1982 Apr 09 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W249	2445075.79	1982 Apr 16 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W259	2445080.79	1982 Apr 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W264	2445082.79	1982 Apr 23 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W271	2445089.79	1982 Apr 30 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W275	2445092.79	1982 May 03 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W274	2445092.75	1982 May 03 0600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W277	2445094.75	1982 May 05 0600:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W280	2445096.79	1982 May 07 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W282	2445099.79	1982 May 10 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W286	2445101.79	1982 May 12 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W289	2445103.79	1982 May 14 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W291	2445106.79	1982 May 17 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W297	2445110.79	1982 May 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W299	2445113.79	1982 May 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W303	2445115.79	1982 May 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W442	2445274.81	1982 Nov 01 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W445	2445276.80	1982 Nov 03 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W448	2445278.79	1982 Nov 05 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W450	2445283.79	1982 Nov 10 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W456	2445285.79	1982 Nov 12 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W460	2445288.80	1982 Nov 15 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W474	2445292.79	1982 Nov 19 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W476	2445295.79	1982 Nov 22 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W477	2445297.79	1982 Nov 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W481	2445299.79	1982 Nov 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W483	2445302.79	1982 Nov 29 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W485	2445304.83	1982 Dec 01 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W490	2445306.83	1982 Dec 03 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W492	2445309.85	1982 Dec 06 0820:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W495	2445311.86	1982 Dec 08 0840:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W505	2445320.81	1982 Dec 17 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W509	2445325.83	1982 Dec 22 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W511	2445332.81	1982 Dec 29 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1982-W512	2445332.86	1982 Dec 29 0845:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W28	2445374.80	1983 Feb 09 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W32	2445378.79	1983 Feb 13 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W33	2445379.79	1983 Feb 14 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W37	2445381.79	1983 Feb 16 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W40	2445383.79	1983 Feb 18 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W42	2445386.79	1983 Feb 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-W46	2445388.83	1983 Feb 23 0750:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W52	2445392.79	1983 Feb 27 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W55	2445395.87	1983 Mar 02 0855:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W61	2445397.86	1983 Mar 04 0840:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W62	2445400.84	1983 Mar 07 0815:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W67	2445402.85	1983 Mar 09 0820:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W70	2445404.85	1983 Mar 11 0820:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W75	2445407.82	1983 Mar 14 0735:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W81	2445409.86	1983 Mar 16 0840:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W84	2445411.82	1983 Mar 18 0745:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W91	2445416.82	1983 Mar 23 0740:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W96	2445421.82	1983 Mar 28 0735:00	MMR-06	-	-	0.000	GOIG?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W136	2445459.18	1983 May 04 1625:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W134	2445458.80	1983 May 04 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W141	2445460.81	1983 May 06 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W150	2445466.13	1983 May 11 1514:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W147	2445465.79	1983 May 11 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W153	2445467.79	1983 May 13 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W156	2445470.84	1983 May 16 0810:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W160	2445472.79	1983 May 18 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W162	2445474.82	1983 May 20 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W165	2445479.74	1983 May 25 0540:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W167	2445479.81	1983 May 25 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W173	2445481.81	1983 May 27 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W179	2445494.22	1983 Jun 08 1715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W181	2445494.27	1983 Jun 08 1830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W182	2445494.33	1983 Jun 08 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W227	2445549.83	1983 Aug 03 0750:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W230	2445551.82	1983 Aug 05 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W233	2445556.81	1983 Aug 10 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W236	2445558.82	1983 Aug 12 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W239	2445564.84	1983 Aug 18 0803:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W241	2445570.80	1983 Aug 24 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W244	2445572.81	1983 Aug 26 0723:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1983-W245	2445575.79	1983 Aug 29 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W221	2446291.85	1985 Aug 14 0820:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W222	2446293.81	1985 Aug 16 0720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W223	2446298.82	1985 Aug 21 0745:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W224	2446300.80	1985 Aug 23 0713:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W225	2446305.79	1985 Aug 28 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W226	2446307.79	1985 Aug 30 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-Y70	2446312.79	1985 Sep 04 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W246	2446324.79	1985 Sep 16 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W272	2446366.82	1985 Oct 28 0741:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W275	2446368.15	1985 Oct 29 1530:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W276	2446368.81	1985 Oct 30 0721:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W284	2446370.81	1985 Nov 01 0729:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W287	2446375.80	1985 Nov 06 0709:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W286	2446375.79	1985 Nov 06 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W296	2446382.81	1985 Nov 13 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W299	2446389.83	1985 Nov 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1985-W301	2446391.81	1985 Nov 22 0730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W26	2446469.08	1986 Feb 07 1350:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W27	2446469.23	1986 Feb 07 1730:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W31	2446473.81	1986 Feb 12 0723:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W34	2446475.86	1986 Feb 14 0842:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W35	2446478.79	1986 Feb 17 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W38	2446480.79	1986 Feb 19 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W42	2446482.79	1986 Feb 21 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W44	2446487.79	1986 Feb 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W46	2446489.80	1986 Feb 28 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W47	2446492.79	1986 Mar 03 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W50	2446494.79	1986 Mar 05 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W53	2446496.80	1986 Mar 07 0718:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W58	2446503.82	1986 Mar 14 0739:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W59	2446506.81	1986 Mar 17 0733:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W63	2446508.79	1986 Mar 19 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W65	2446510.80	1986 Mar 21 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W67	2446515.79	1986 Mar 26 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W71	2446517.80	1986 Mar 28 0713:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W73	2446522.80	1986 Apr 02 0712:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W74	2446529.79	1986 Apr 09 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W75	2446531.81	1986 Apr 11 0726:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W153	2446680.83	1986 Sep 07 0748:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W159	2446692.83	1986 Sep 19 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W162	2446694.84	1986 Sep 21 0804:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W163	2446695.85	1986 Sep 22 0817:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W167	2446697.83	1986 Sep 24 0759:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1986-W172	2446701.82	1986 Sep 28 0742:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W01	2446798.01	1987 Jan 02 1220:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W02	2446798.11	1987 Jan 02 1444:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W04	2446801.18	1987 Jan 05 1624:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W05	2446801.24	1987 Jan 05 1741:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W06	2446802.09	1987 Jan 06 1406:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W07	2446802.14	1987 Jan 06 1525:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W08	2446802.81	1987 Jan 07 0731:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-W09	2446802.99	1987 Jan 07 1139:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W14	2446803.96	1987 Jan 08 1105:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W17	2446804.84	1987 Jan 09 0803:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W18	2446804.92	1987 Jan 09 1001:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W19	2446807.03	1987 Jan 11 1237:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W20	2446807.07	1987 Jan 11 1347:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W23	2446809.82	1987 Jan 14 0741:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W29	2446811.82	1987 Jan 16 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W31	2446816.84	1987 Jan 21 0810:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W55	2446856.82	1987 Mar 02 0745:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W57	2446858.85	1987 Mar 04 0819:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W62	2446860.79	1987 Mar 06 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W69	2446872.79	1987 Mar 18 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W72	2446874.81	1987 Mar 20 0723:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W78	2446879.80	1987 Mar 25 0717:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W81	2446881.80	1987 Mar 27 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W82	2446886.85	1987 Apr 01 0822:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W88	2446888.83	1987 Apr 03 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W91	2446893.84	1987 Apr 08 0811:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W95	2446895.85	1987 Apr 10 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W97	2446900.83	1987 Apr 15 0758:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W104	2446905.83	1987 Apr 20 0750:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W105	2446907.81	1987 Apr 22 0732:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W112	2446909.84	1987 Apr 24 0807:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W115	2446912.83	1987 Apr 27 0753:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W149	2446951.80	1987 Jun 05 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W152	2446956.79	1987 Jun 10 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W156	2446958.79	1987 Jun 12 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W158	2446961.80	1987 Jun 15 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W162	2446963.79	1987 Jun 17 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W165	2446965.79	1987 Jun 19 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W170	2446970.79	1987 Jun 24 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W174	2446972.79	1987 Jun 26 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W175	2446977.80	1987 Jul 01 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W180	2446984.87	1987 Jul 08 0847:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W183	2446986.84	1987 Jul 10 0806:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W184	2446988.82	1987 Jul 12 0741:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W189	2446993.80	1987 Jul 17 0715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W191	2446995.81	1987 Jul 19 0723:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W193	2446998.82	1987 Jul 22 0736:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W195	2447000.82	1987 Jul 24 0747:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W197	2447002.81	1987 Jul 26 0727:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W199	2447005.80	1987 Jul 29 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W220	2447043.33	1987 Sep 04 2000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W226	2447050.30	1987 Sep 11 1916:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W229	2447055.30	1987 Sep 16 1918:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W231	2447057.30	1987 Sep 18 1917:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W238	2447062.30	1987 Sep 23 1915:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W239	2447064.30	1987 Sep 25 1905:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W242	2447069.30	1987 Sep 30 1916:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W244	2447071.30	1987 Oct 02 1919:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W275	2447112.80	1987 Nov 13 0718:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W279	2447117.87	1987 Nov 18 0856:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W286	2447126.81	1987 Nov 27 0722:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W289	2447128.91	1987 Nov 29 0951:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W290	2447130.88	1987 Dec 01 0906:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W293	2447131.80	1987 Dec 02 0717:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W296	2447132.92	1987 Dec 03 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W298	2447133.82	1987 Dec 04 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W301	2447137.09	1987 Dec 07 1405:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W303	2447138.79	1987 Dec 09 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1987-W306	2447140.79	1987 Dec 11 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W30	2447206.80	1988 Feb 15 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W33	2447208.79	1988 Feb 17 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W34	2447210.79	1988 Feb 19 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W35	2447214.93	1988 Feb 23 1018:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W37	2447215.79	1988 Feb 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W38	2447215.96	1988 Feb 24 1105:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W41	2447217.02	1988 Feb 25 1231:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W43	2447217.79	1988 Feb 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W44	2447217.96	1988 Feb 26 1108:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W45	2447218.96	1988 Feb 27 1105:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W47	2447219.97	1988 Feb 28 1113:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W48	2447220.79	1988 Feb 29 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W49	2447222.79	1988 Mar 02 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W51	2447224.79	1988 Mar 04 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W53	2447229.79	1988 Mar 09 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W56	2447231.79	1988 Mar 11 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W60	2447238.82	1988 Mar 18 0742:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W64	2447243.79	1988 Mar 23 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W65	2447245.80	1988 Mar 25 0716:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W68	2447250.76	1988 Mar 30 0609:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W70	2447252.78	1988 Apr 01 0648:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W71	2447255.75	1988 Apr 04 0603:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W72	2447257.75	1988 Apr 06 0605:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W74	2447259.01	1988 Apr 07 1210:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-W77	2447261.92	1988 Apr 10 1006:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W78	2447262.11	1988 Apr 10 1445:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W81	2447264.79	1988 Apr 13 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W90	2447267.92	1988 Apr 16 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W91	2447268.93	1988 Apr 17 1025:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W92	2447269.93	1988 Apr 18 1025:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W93	2447270.05	1988 Apr 18 1312:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W112	2447306.79	1988 May 25 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W113	2447308.79	1988 May 27 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W114	2447310.79	1988 May 29 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W116	2447313.79	1988 Jun 01 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W117	2447315.79	1988 Jun 03 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W122	2447320.79	1988 Jun 08 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W123	2447322.79	1988 Jun 10 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W126	2447329.79	1988 Jun 17 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W128	2447334.79	1988 Jun 22 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W130	2447336.79	1988 Jun 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W151	2447401.75	1988 Aug 28 0606:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W153	2447404.79	1988 Aug 31 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W155	2447406.79	1988 Sep 02 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W157	2447413.79	1988 Sep 09 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W158	2447415.79	1988 Sep 11 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W159	2447418.79	1988 Sep 14 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W163	2447420.80	1988 Sep 16 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W164	2447425.80	1988 Sep 21 0707:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W168	2447427.80	1988 Sep 23 0707:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-A08	2447456.07	1988 Oct 21 1335	MMR-06	-	-	0.000	GMS?	SF	U	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W185	2447461.19	1988 Oct 26 1630:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W187	2447467.04	1988 Nov 1 1301	MMR-06	-	-	0.000	GMS?	SS	-	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W188	2447467.80	1988 Nov 02 0707:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W189	2447467.97	1988 Nov 02 1110:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-A09	2447470.06	1988 Nov 4 1320	MMR-06	-	-	0.000	GMS?	SS	-	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W190	2447474.05	1988 Nov 8 1311	MMR-06	-	-	0.000	GMS?	SS	-	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W192	2447474.80	1988 Nov 09 0707:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W193	2447474.88	1988 Nov 09 0900:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W194	2447476.79	1988 Nov 11 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W195	2447479.79	1988 Nov 14 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W198	2447481.79	1988 Nov 16 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W199	2447483.79	1988 Nov 18 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W200	2447488.06	1988 Nov 22 1320	MMR-06	-	-	0.000	GMS?	SS	-	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W201	2447488.80	1988 Nov 23 0716:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W203	2447489.04	1988 Nov 23 1300	MMR-06	-	-	0.000	GMS?	SS	-	LINAO/	Aeron	raketenmodellbau.de	-	-
1988-W204	2447493.80	1988 Nov 28 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W219	2447510.98	1988 Dec 15 1130:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W220	2447513.83	1988 Dec 18 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W221	2447515.83	1988 Dec 20 0800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W223	2447516.92	1988 Dec 21 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W224	2447517.92	1988 Dec 22 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W225	2447520.96	1988 Dec 25 1059:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W226	2447523.06	1988 Dec 27 1332:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W227	2447523.12	1988 Dec 27 1500:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W229	2447523.96	1988 Dec 28 1109:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1988-W231	2447524.13	1988 Dec 28 1510:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W01	2447528.22	1989 Jan 01 1711:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W02	2447528.89	1989 Jan 02 0924:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W03	2447529.97	1989 Jan 03 1114:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W04	2447530.84	1989 Jan 04 0810:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W05	2447530.94	1989 Jan 04 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W09	2447531.95	1989 Jan 05 1046:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W10	2447532.79	1989 Jan 06 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W11	2447532.95	1989 Jan 06 1049:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W12	2447533.93	1989 Jan 07 1013:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W13	2447534.04	1989 Jan 07 1251:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W15	2447535.80	1989 Jan 09 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W18	2447536.04	1989 Jan 09 1252:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W20	2447537.85	1989 Jan 11 0830:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W22	2447538.11	1989 Jan 11 1444:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W24	2447538.94	1989 Jan 12 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W25	2447539.87	1989 Jan 13 0857:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W26	2447539.99	1989 Jan 13 1151:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W27	2447541.79	1989 Jan 15 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W28	2447544.79	1989 Jan 18 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W31	2447546.79	1989 Jan 20 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W34	2447551.81	1989 Jan 25 0721:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W35	2447552.04	1989 Jan 25 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W41	2447553.22	1989 Jan 26 1720:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W43	2447553.86	1989 Jan 27 0839:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W44	2447557.04	1989 Jan 30 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W45	2447558.81	1989 Feb 01 0722:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W47	2447560.80	1989 Feb 03 0709:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W49	2447562.80	1989 Feb 05 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W50	2447565.79	1989 Feb 08 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W57	2447569.79	1989 Feb 12 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W59	2447574.79	1989 Feb 17 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W60	2447579.79	1989 Feb 22 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W62	2447580.08	1989 Feb 22 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-W66	2447582.08	1989 Feb 24 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W88	2447602.03	1989 Mar 16 1247:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W90	2447603.00	1989 Mar 17 1155:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W98	2447604.94	1989 Mar 19 1030:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W106	2447624.04	1989 Apr 7 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W103	2447620.06	1989 Apr 03 1330:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W109	2447629.04	1989 Apr 12 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W112	2447636.00	1989 Apr 19 1200:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W113	2447636.04	1989 Apr 19 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W116	2447643.03	1989 Apr 26 1240	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W121	2447649.80	1989 May 03 0715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W135	2447656.80	1989 May 10 0711:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W136	2447657.01	1989 May 10 1210	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W139	2447658.79	1989 May 12 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W141	2447663.79	1989 May 17 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W144	2447665.79	1989 May 19 0701:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W147	2447670.80	1989 May 24 0715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W149	2447671.01	1989 May 24 1210	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W152	2447672.79	1989 May 26 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W155	2447679.79	1989 Jun 02 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W156	2447681.79	1989 Jun 04 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W158	2447684.80	1989 Jun 07 0708:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W161	2447686.80	1989 Jun 09 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W167	2447693.79	1989 Jun 16 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W171	2447698.79	1989 Jun 21 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W174	2447699.02	1989 Jun 21 1230	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W177	2447700.80	1989 Jun 23 0717:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W179	2447705.80	1989 Jun 28 0714:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W216	2447771.25	1989 Sep 01 1800:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W220	2447776.03	1989 Sep 6 1238	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W221	2447778.08	1989 Sep 08 1400:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W232	2447810.05	1989 Oct 10 1310	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W237	2447815.80	1989 Oct 16 0717:00	MMR-06	-	-	0.000	AN	SU	-	GMS/	Aeron	WDCRF	-	-
1989-W240	2447817.85	1989 Oct 18 0820:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W242	2447818.04	1989 Oct 18 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W247	2447821.79	1989 Oct 22 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W248	2447821.84	1989 Oct 22 0809:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W249	2447822.79	1989 Oct 23 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W250	2447822.86	1989 Oct 23 0832:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W254	2447824.80	1989 Oct 25 0715:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-A10	2447832.04	1989 Nov 1 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W262	2447834.79	1989 Nov 04 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W264	2447838.79	1989 Nov 08 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W266	2447839.05	1989 Nov 8 1310	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W268	2447840.80	1989 Nov 10 0708:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W269	2447845.79	1989 Nov 15 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W271	2447847.80	1989 Nov 17 0716:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W274	2447852.79	1989 Nov 22 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W282	2447857.79	1989 Nov 27 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1989-W294	2447869.04	1989 Dec 8 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1989-W303	2447881.07	1989 Dec 20 1340	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1990-W01	2447893.04	1990 Jan 01 1300:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W04	2447894.92	1990 Jan 03 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W02	2447894.84	1990 Jan 03 0815:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W06	2447896.81	1990 Jan 05 0725:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W07	2447897.10	1990 Jan 05 1430:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W05	2447896.80	1990 Jan 05 0710:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W08	2447898.05	1990 Jan 06 1317:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W09	2447899.81	1990 Jan 08 0729:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W14	2447901.80	1990 Jan 10 0719:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W15	2447902.04	1990 Jan 10 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1990-W20	2447902.97	1990 Jan 11 1115:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W21	2447903.80	1990 Jan 12 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W22	2447903.85	1990 Jan 12 0824:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W23	2447904.92	1990 Jan 13 1010:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W25	2447908.79	1990 Jan 17 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W26	2447908.88	1990 Jan 17 0908:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W33	2447910.79	1990 Jan 19 0704:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W35	2447911.04	1990 Jan 19 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	-	-
1990-W38	2447912.95	1990 Jan 21 1050:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W39	2447913.92	1990 Jan 22 1000:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W41	2447914.92	1990 Jan 23 1009:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W44	2447915.79	1990 Jan 24 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W46	2447915.93	1990 Jan 24 1023:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W50	2447916.95	1990 Jan 25 1044:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W51	2447917.79	1990 Jan 26 0700:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W53	2447918.05	1990 Jan 26 1313:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W54	2447920.82	1990 Jan 29 0739:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W59	2447922.80	1990 Jan 31 0711:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W58	2447922.80	1990 Jan 31 0708:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W74	2447931.80	1990 Feb 09 0709:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W75	2447934.80	1990 Feb 12 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W77	2447936.79	1990 Feb 14 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W80	2447937.04	1990 Feb 14 1300	MMR-06	-	-	0.000	MDD	SS	-	LINAO/Gernandt	Aeron	raketenmodellbau.de	ESA-SP317-381	-
1990-W83	2447938.79	1990 Feb 16 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W89	2447943.79	1990 Feb 21 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-W96	2447945.79	1990 Feb 23 0703:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W99	2447950.80	1990 Feb 28 0705:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W103	2447952.82	1990 Mar 02 0740:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W110	2447957.79	1990 Mar 07 0702:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W115	2447959.83	1990 Mar 09 0754:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W120	2447961.96	1990 Mar 11 1058:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W127	2447965.04	1990 Mar 14 1256:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W130	2447972.06	1990 Mar 21 1320	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W133	2447972.14	1990 Mar 21 1525:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W135	2447979.08	1990 Mar 28 1400	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W140	2448021.00	1990 May 9 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W141	2448023.00	1990 May 11 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W142	2448042.00	1990 May 30 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W143	2448051.00	1990 Jun 8 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W144	2448056.00	1990 Jun 13 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W145	2448063.01	1990 Jun 20 1210	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W157	2448147.00	1990 Sep 12 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W161	2448161.00	1990 Sep 26 1200	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-A07	2448170.04	1990 Oct 5 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W171	2448177.04	1990 Oct 12 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W172	2448182.04	1990 Oct 17 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W174	2448182.07	1990 Oct 17 1340	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W176	2448197.83	1990 Nov 02 0801:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-A08	2448198.04	1990 Nov 2 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W177	2448198.07	1990 Nov 2 1340	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W178	2448200.84	1990 Nov 05 0814:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W179	2448202.81	1990 Nov 07 0726:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1990-W181	2448219.04	1990 Nov 23 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W184	2448231.06	1990 Dec 5 1330	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W185	2448240.04	1990 Dec 14 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W186	2448245.04	1990 Dec 19 1300	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W187	2448245.06	1990 Dec 19 1330	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1990-W189	2448256.80	1990 Dec 31 0706:00	MMR-06	-	-	0.000	GMS?	SU	-	GMS/?	Aeron	WDCRF	-	-
1992-W11	2448666.83	1992 Feb 14 0750	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W15	2448671.82	1992 Feb 19 0745	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W16	2448673.81	1992 Feb 21 0730	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W20	2448678.81	1992 Feb 26 0730	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W21	2448678.87	1992 Feb 26 0850	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W22	2448680.81	1992 Feb 28 0731	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-A03	2448687.81	1992 Mar 6 0732	MMR-06	-	-	0.000	GMS?	SF	U	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W23	2448687.85	1992 Mar 6 0824	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W24	2448692.81	1992 Mar 11 0732	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W25	2448692.85	1992 Mar 11 0827	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-A05	2448701.82	1992 Mar 20 0740	MMR-06	-	-	0.000	GMS?	SF	U	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W30	2448701.87	1992 Mar 20 0858	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W33	2448706.81	1992 Mar 25 0732	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W34	2448706.85	1992 Mar 25 0825	MMR-06	-	-	0.000	GMS?	SF	U	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W35	2448708.81	1992 Mar 27 0733	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W36	2448713.77	1992 Apr 1 0633	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-A07	2448715.77	1992 Apr 3 0630	MMR-06	-	-	0.000	GMS?	SF	U	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W39	2448715.81	1992 Apr 3 0720	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-
1992-W43	2448722.77	1992 Apr 10 0630	MMR-06	-	-	0.000	GMS?	SS	-	IAP/Glode	Aeron	raketenmodellbau.de	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S115	2437784.50	1962 May	MR-12	-	D-75M LKI	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1962-S350	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S351	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S352	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S353	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S354	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S355	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S356	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1962-S357	2437937.50	1962 Oct?	MR-12	-	D-75M	-	-	-	-	BALKH?	-	-	-	150?	-	-
1964-S05	2438394.50	1964	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1964-S06	2438394.50	1964	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1964-S07	2438394.50	1964	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1964-S08	2438394.50	1964	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1965-S05	2438760.50	1965	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1965-S489	2439007.31	1965 Sep 3 1930	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	165	-	-
1965-S490	2439012.68	1965 Sep 9 0415	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	165	-	-
1965-S498	2439021.29	1965 Sep 17 1900	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	165	-	-
1965-S576	2439060.00	1965 Oct 26 1203	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	170	-	-
1966-S76	2439149.50	1966 Jan 24	MR-12	-	D-75M	-	-	-	-	OK	-	-	-	150?	-	-
1966-S504	2439393.32	1966 Sep 24 1947	MR-12	-	-	-	-	-	-	OK	-	-	-	144	-	-
1966-S514	2439398.88	1966 Sep 30 0907	MR-12	-	-	-	-	-	-	OK	-	-	-	174	-	-
1966-S520	2439399.88	1966 Oct 1 0907	MR-12	-	-	Thermosphere comp. 1	-	-	-	OK	-	-	-	174	-	-
1966-S536	2439408.80	1966 Oct 10 0715	MR-12	?	-	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1966-S551	2439419.03	1966 Oct 20 1238	MR-12	-	-	-	-	-	-	OK	-	-	-	186	-	-
1966-S564	2439425.09	1966 Oct 26 1416	MR-12	-	-	-	-	-	-	OK	-	-	-	176	-	-
1966-S586	2439434.14	1966 Nov 4 1516	MR-12	-	-	-	-	-	-	OK	-	-	-	164	-	-
1966-S650	2439453.41	1966 Nov 23 2144	MR-12	-	-	Thermosphere comp. 2	-	-	-	OK	-	-	-	163	-	-
1966-S666	2439461.36	1966 Dec 1 2040	MR-12	-	-	-	-	-	-	OK	-	-	-	168	-	-
1966-S670	2439465.86	1966 Dec 6 0839	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	167	-	-
1966-S678	2439472.24	1966 Dec 12 1739	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	160	-	-
1966-Y59	2439473.81	1966 Dec 14 0730:00	MR-12	-	-	Mass spectrometer	-	-	-	GTsP-4	-	-	-	167	-	-
1966-S690	2439475.34	1966 Dec 15 2012:00	MR-12	-	-	Mass spectrometer	-	-	-	GTsP-4	-	-	-	178	-	-
1966-S694	2439480.17	1966 Dec 20 1600	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	178	-	-
1966-S695	2439481.02	1966 Dec 21 1230	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	166	-	-
1966-S696	2439481.02	1966 Dec 21 1230	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	167	-	-
1967-S94	2439522.46	1967 Jan 31 2305	MR-12	-	-	Thermosphere comp. 3	-	-	-	OK	-	-	-	172	-	-
1967-S113	2439525.38	1967 Feb 3 2100?	MR-12	?	-	Airglow	-	-	-	GTsP-4	-	-	-	153	-	-
1967-S271	2439635.88	1967 May 25 0900:00	MR-12	-	MP 12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1967-S308	2439662.50	1967 Jun 21	MR-12	-	M-175	-	-	-	-	EMBA	-	-	-	90?	-	-
1967-S312	2439663.50	1967 Jun 22	MR-12	-	M-175	-	-	-	-	EMBA	-	-	-	90?	-	-
1967-S481	2439773.15	1967 Oct 9 1530	MR-12	-	D-75M	-	-	-	-	OK	-	-	-	120	-	-
1967-S483	2439774.12	1967 Oct 10 1455	MR-12	-	D-75M	-	-	-	-	OK	-	-	-	180	-	-
1967-S520	2439796.33	1967 Nov 1 1957	MR-12	-	-	Ion composition	-	-	-	OK	-	-	-	180	-	-
1967-S600	2439843.88	1967 Dec 19 0900?	MR-12	-	-	VV/RFMS/release	-	-	-	GTsP-4	-	-	-	170	-	-
1968-S154	2439913.56	1968 Feb 27 0130	MR-12	-	-	-	-	-	-	OK	-	-	-	170	-	-
1968-S157	2439915.11	1968 Feb 28 1440	MR-12	-	-	-	-	-	-	OK	-	-	-	168	-	-
1968-S160	2439916.22	1968 Feb 29 1715:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1968-S181	2439932.23	1968 Mar 16 1730	MR-12	-	-	Release	-	-	-	OK	-	-	-	174	-	-
1968-S189	2439934.40	1968 Mar 18 2130	MR-12	-	-	-	-	-	-	OK	-	-	-	174	-	-
1968-S190	2439934.43	1968 Mar 18 2215	MR-12	-	-	-	-	-	-	OK	-	-	-	181	-	-
1968-S192	2439935.26	1968 Mar 19 1820	MR-12	-	-	-	-	-	-	OK	-	-	-	176	-	-
1968-S193	2439935.30	1968 Mar 19 1905	MR-12	-	-	MX6407P mass spec	-	-	-	OK	-	-	-	178	-	-
1968-S197	2439936.35	1968 Mar 20 2025	MR-12	-	-	Release	-	-	-	OK	-	-	-	174	-	-
1968-S198	2439936.38	1968 Mar 20 2109	MR-12	-	-	-	-	-	-	OK	-	-	-	182	-	-
1968-S199	2439936.40	1968 Mar 20 2136	MR-12	-	-	Mass spec	-	-	-	GTsP-4	-	-	-	175	-	-
1968-S202	2439937.54	1968 Mar 22 0057	MR-12	-	-	-	-	-	-	OK	-	-	-	176	-	-
1968-S206	2439939.31	1968 Mar 23 1927	MR-12	-	-	Ion composition	-	-	-	OK	-	-	-	182	-	-
1968-S208	2439940.67	1968 Mar 25 0402	MR-12	-	-	Ion composition	-	-	-	OK	-	-	-	180	-	-
1968-S209	2439940.72	1968 Mar 25 0510	MR-12	-	-	Composition	-	-	-	OK	-	-	-	180	-	-
1968-S212	2439941.31	1968 Mar 25 1920	MR-12	-	-	-	-	-	-	OK	-	-	-	181	-	-
1968-S214	2439941.44	1968 Mar 25 2240	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	175	-	-
1968-S218	2439942.99	1968 Mar 27 1150	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	179	-	-
1968-S231	2439945.83	1968 Mar 30 0800	MR-12	-	-	Mass spec/Ne-Te 1	-	-	-	GTsP-4	-	-	-	170	-	-
1968-S233	2439946.10	1968 Mar 30 1430	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	176	-	-
1968-S310	2439985.81	1968 May 9 0730	MR-12	-	-	-	-	-	VIZE	GMS68A	LP1	-	-	162	-	-
1968-S311	2439987.54	1968 May 11 0100	MR-12	-	-	-	-	-	VIZE	GMS68A	LP2	-	-	167	-	-
1968-S312	2439988.04	1968 May 11 1300	MR-12	-	-	-	-	-	VIZE	GMS68A	LP3	-	-	167	-	-
1968-S315	2439989.05	1968 May 12 1315	MR-12	-	-	-	-	-	VIZE	GMS68A	LP4	-	-	171	-	-
1968-S321	2439993.27	1968 May 16 1833	MR-12	-	-	-	-	-	VIZE	GMS68A	LP5	-	-	168	-	-
1968-S326	2439994.27	1968 May 17 1825	MR-12	-	-	-	-	-	VIZE	GMS68A	LP6	-	-	159	-	-
1968-S330	2439995.25	1968 May 18 1805	MR-12	-	-	-	-	-	VIZE	GMS68A	LP7	-	-	167	-	-
1968-S334	2439998.08	1968 May 21 1400	MR-12	-	-	MX6407P	-	-	VIZE	GMS68A	LP8	-	-	174	-	-
1968-S335	2439998.34	1968 May 21 2009	MR-12	-	-	-	-	-	VIZE	GMS68A	LP9	-	-	167	-	-
1968-S338	2439998.53	1968 May 22 0050	MR-12	-	-	MX6407P	-	-	VIZE	GMS68A	LP10	-	-	169	-	-
1968-S352	2440007.06	1968 May 30 1332	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	172	-	-
1968-S353	2440007.38	1968 May 30 2100	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	168	-	-
1968-S361	2440014.06	1968 Jun 6 1331	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	174	-	-
1968-S362	2440014.25	1968 Jun 6 1800	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	171	-	-
1968-S378	2440022.12	1968 Jun 14 1455	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	169	-	-
1968-S384	2440033.69	1968 Jun 26 0430	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	173	-	-
1968-S385	2440033.89	1968 Jun 26 0921	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	168	-	-
1968-S386	2440035.69	1968 Jun 28 0437	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	174	-	-
1968-S390	2440040.50	1968 Jul 3	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	179	-	-
1968-S398	2440054.24	1968 Jul 16 1740	MR-12	-	-	Na release	-	-	-	GTsP-4	-	-	-	146	-	-
1968-S401	2440057.21	1968 Jul 19 1700	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	148	-	-
1968-S422	2440063.23	1968 Jul 25 1730	MR-12	-	-	Na release	-	-	-	GTsP-4	-	-	-	145	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S423	2440063.50	1968 Jul 26 0000	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	147	-	-
1968-S427	2440065.23	1968 Jul 27 1726	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1968-S434	2440069.04	1968 Jul 31 1300	MR-12	-	-	Electron fluxes	-	-	-	GTsP-4	-	-	-	178	-	-
1968-S435	2440069.29	1968 Jul 31 1854	MR-12	-	-	Electron fluxes	-	-	-	GTsP-4	-	-	-	173	-	-
1968-S437	2440069.50	1968 Aug 1 0000	MR-12	-	-	Electron fluxes	-	-	-	GTsP-4	-	-	-	168	-	-
1968-S438	2440069.58	1968 Aug 1 0200	MR-12	-	-	Electron fluxes	-	-	-	GTsP-4	-	-	-	176	-	-
1968-S494	2440113.21	1968 Sep 13 1658	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	155	-	-
1968-S501	2440120.19	1968 Sep 20 1630	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	155	-	-
1968-S510	2440125.42	1968 Sep 25 2202	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	180	-	-
1968-S519	2440131.60	1968 Oct 2 0217	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	174	-	-
1968-S524	2440137.60	1968 Oct 8 0226	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	125	-	-
1968-S528	2440138.65	1968 Oct 9 0332	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	130	-	-
1968-S539	2440145.83	1968 Oct 16 0802	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	171	-	-
1968-S547	2440151.84	1968 Oct 22 0803	MR-12	-	-	Ion composition	-	-	-	GTsP-4	-	-	-	168	-	-
1968-S548	2440151.92	1968 Oct 22 1002	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	164	-	-
1968-S553	2440154.92	1968 Oct 25 1004	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	130	-	-
1968-S555	2440156.92	1968 Oct 27 1003:00	MR-12	-	MP-12	-	-	-	-	GTsP-4	-	-	-	168	-	-
1968-S558	2440159.84	1968 Oct 30 0806	MR-12	-	-	Thermosphere comp 4	-	-	-	OK	-	-	-	171	-	-
1969-S67	2440236.34	1969 Jan 14 2014	MR-12	-	-	Thermosphere comp 5	-	-	-	OK	-	-	-	176	-	-
1969-S77	2440242.84	1969 Jan 21 0803	MR-12	-	-	Ne-Te 2	-	-	-	GTsP-4	-	-	-	170	-	-
1969-S81	2440245.00	1969 Jan 23 1202	MR-12	-	-	Ne-Te 3	-	-	-	GTsP-4	-	-	-	174	-	-
1969-S160	2440281.88	1969 Mar 1 0900	MR-12	-	-	-	-	-	-	OK	-	-	-	173	-	-
1969-S172	2440288.88	1969 Mar 8 0900	MR-12	-	-	-	-	-	-	OK	-	-	-	173	-	-
1969-S173	2440289.15	1969 Mar 8 1535	MR-12	-	-	Release?	-	-	-	OK	-	-	-	173	-	-
1969-S175	2440290.19	1969 Mar 9 1635	MR-12	-	-	Release?	-	-	-	OK	-	-	-	172	-	-
1969-S177	2440291.17	1969 Mar 10 1610	MR-12	-	-	Release?	-	-	-	OK	-	-	-	168	-	-
1969-S178	2440291.46	1969 Mar 10 2300	MR-12	-	-	Release?	-	-	-	OK	-	-	-	175	-	-
1969-S184	2440294.20	1969 Mar 13 1645	MR-12	-	-	-	-	-	-	OK	-	-	-	174	-	-
1969-S185	2440294.26	1969 Mar 13 1817	MR-12	-	-	Release?	-	-	-	OK	-	-	-	170	-	-
1969-S187	2440294.43	1969 Mar 13 2223	MR-12	-	-	Release?	-	-	-	OK	-	-	-	170	-	-
1969-S191	2440295.43	1969 Mar 14 2220	MR-12	-	-	-	-	-	-	OK	-	-	-	161	-	-
1969-S202	2440298.27	1969 Mar 17 1835	MR-12	-	-	-	-	-	-	OK	-	-	-	169	-	-
1969-S205	2440299.88	1969 Mar 19 0900	MR-12	-	-	-	-	-	-	OK	-	-	-	97	-	-
1969-S206	2440300.40	1969 Mar 19 2130	MR-12	-	-	-	-	-	-	OK	-	-	-	181	-	-
1969-S209	2440301.24	1969 Mar 20 1750	MR-12	-	-	-	-	-	-	OK	-	-	-	169	-	-
1969-S210	2440301.27	1969 Mar 20 1830	MR-12	-	-	Composition	-	-	-	OK	-	-	-	171	-	-
1969-S211	2440301.35	1969 Mar 20 2030	MR-12	-	-	-	-	-	-	OK	-	-	-	169	-	-
1969-S213	2440302.34	1969 Mar 21 2006	MR-12	-	-	E-region 1	-	-	-	OK	-	-	-	175	-	-
1969-S215	2440302.62	1969 Mar 22 0250	MR-12	-	-	-	-	-	-	OK	-	-	-	184	-	-
1969-S217	2440304.92	1969 Mar 24 1001	MR-12	-	-	-	-	-	-	OK	-	-	-	181	-	-
1969-S221	2440307.08	1969 Mar 26 1402	MR-12	-	-	-	-	-	-	OK	-	-	-	181	-	-
1969-S224	2440308.07	1969 Mar 27 1335	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	181	-	-
1969-S225	2440308.15	1969 Mar 27 1530	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	181	-	-
1969-S238	2440310.04	1969 Mar 29 1300	MR-12	-	-	Mass spectrometer	-	-	-	GTsP-4	-	-	-	175	-	-
1969-S258	2440320.90	1969 Apr 9 0933	MR-12	-	-	Sun-Atm 69 Manometer	-	-	-	GTsP-4	-	-	-	170	-	-
1969-S283	2440330.04	1969 Apr 18 1300	MR-12	-	-	Sun-Atm 69 E-reg 2	-	-	-	GTsP-4	-	-	-	174	-	-
1969-S284	2440330.14	1969 Apr 18 1520	MR-12	-	-	Sun-Atmosphere-69 1	-	-	-	GTsP-4	-	-	-	178	-	-
1969-S285	2440331.19	1969 Apr 19 1632	MR-12	-	-	Sun-Atmosphere-69 2	-	-	-	GTsP-4	-	-	-	174	-	-
1969-S286	2440332.04	1969 Apr 20 1304	MR-12	-	-	Sun-Atm 69 E-reg 3	-	-	-	GTsP-4	-	-	-	175	-	-
1969-S287	2440332.14	1969 Apr 20 1524	MR-12	-	-	Sun-Atmosphere-69 3	-	-	-	GTsP-4	-	-	-	171	-	-
1969-S288	2440333.05	1969 Apr 21 1306	MR-12	-	-	Sun-Atm 69 Mass spec	-	-	-	GTsP-4	-	-	-	173	-	-
1969-S289	2440333.14	1969 Apr 21 1526	MR-12	-	-	Sun-Atmosphere-69 4	-	-	-	GTsP-4	-	-	-	176	-	-
1969-S295	2440335.05	1969 Apr 23 1310	MR-12	-	-	Sun-Atm 69?	-	-	-	GTsP-4	-	-	-	169	-	-
1969-S296	2440335.15	1969 Apr 23 1530	MR-12	-	-	Sun-Atmosphere-69 5	-	-	-	GTsP-4	-	-	-	176	-	-
1969-S361	2440384.25	1969 Jun 11 1805	MR-12	-	-	Density/N2	-	-	-	GTsP-4	-	-	-	167	-	-
1969-S373	2440392.64	1969 Jun 20 0315	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	166	-	-
1969-S379	2440397.29	1969 Jun 24 1902	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	170	-	-
1969-S388	2440404.26	1969 Jul 1 1815	MR-12	-	-	N2 density	-	-	-	GTsP-4	-	-	-	141	-	-
1969-S391	2440405.65	1969 Jul 3 0329	MR-12	-	-	Density/N2	-	-	-	GTsP-4	-	-	-	165	-	-
1969-S395	2440411.26	1969 Jul 8 1820	MR-12	-	-	N2 density	-	-	-	GTsP-4	-	-	-	148	-	-
1969-S397	2440412.25	1969 Jul 9 1755	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150	-	-
1969-S400	2440412.84	1969 Jul 10 0807	MR-12	-	-	Ne-Te 4	-	-	-	GTsP-4	-	-	-	162	-	-
1969-S404	2440414.25	1969 Jul 11 1755	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	148	-	-
1969-S416	2440427.50	1969 Jul 24 2355	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	145	-	-
1969-S419	2440427.55	1969 Jul 25 0119:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP1	-	-	166	-	-
1969-S420	2440427.56	1969 Jul 25 0130:00	MR-12	-	MR-12	Thermosphere comp 6	-	-	-	GTsP-4	-	-	-	172	-	-
1969-S421	2440427.58	1969 Jul 25 0200:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	89	-	-
1969-Y199	2440427.58	1969 Jul 25 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	94	-	-
1969-S423	2440428.42	1969 Jul 25 2203:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1969-S424	2440428.49	1969 Jul 25 2350:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	145	-	-
1969-S425	2440430.41	1969 Jul 27 2147:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP2	-	-	168	-	-
1969-S426	2440430.44	1969 Jul 27 2237:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP3	-	-	164	-	-
1969-S427	2440430.48	1969 Jul 27 2327:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP4	-	-	170	-	-
1969-S428	2440430.51	1969 Jul 28 0017:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP5	-	-	167	-	-
1969-Y201	2440432.58	1969 Jul 30 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	84	-	-
1969-S433	2440433.34	1969 Jul 30 2007:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	171	-	-
1969-S436	2440436.64	1969 Aug 03 0325:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP6	-	-	164	-	-
1969-S437	2440436.68	1969 Aug 03 0415:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP7	-	-	168	-	-
1969-S438	2440436.71	1969 Aug 03 0505:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP8	-	-	165	-	-
1969-S439	2440436.74	1969 Aug 03 0551:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP9	-	-	169	-	-
1969-S440	2440436.79	1969 Aug 03 0700:00	MR-12	-	MR-12	-	-	-	ZUB	GMS69D	LP10	-	-	172	-	-
1969-Y204	2440439.58	1969 Aug 06 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	94	-	-
1969-Y207	2440446.58	1969 Aug 13 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	91	-	-
1969-Y208	2440453.58	1969 Aug 20 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	88	-	-
1969-Y210	2440460.58	1969 Aug 27 0200:00	MR-12	-	M-100?	-	-	-	-	MLD	-	-	-	90	-	-
1969-S524	2440503.50	1969 Oct 9?	MR-12	-	-	-	-	-	ZUB	GMS69E	LP1	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S538	2440505.96	1969 Oct 11 1105	MR-12	-	-	-	-	-	ZUB	GMS69E	LP2	-	-	158	-	-
1969-S543	2440508.85	1969 Oct 14 0822	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	120	-	-
1969-S553	2440512.42	1969 Oct 17 2209	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	166	-	-
1969-S555	2440512.96	1969 Oct 18 1107	MR-12	-	-	-	-	-	ZUB	GMS69E	LP3	-	-	165	-	-
1969-S556	2440513.24	1969 Oct 18 1747	MR-12	-	-	-	-	-	ZUB	GMS69E	LP4	-	-	160	-	-
1969-S566	2440516.02	1969 Oct 21 1232	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	164	-	-
1969-S569	2440516.85	1969 Oct 22 0831	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	116	-	-
1969-S574	2440518.69	1969 Oct 24 0433:00	MR-12	-	-	Particles	-	-	-	GTsP-4	-	-	-	160	-	-
1969-S616	2440530.84	1969 Nov 5 0811	MR-12	-	-	-	-	-	ZUB	GMS69E	LP5	-	-	160	-	-
1969-S617	2440530.97	1969 Nov 5 1112	MR-12	-	-	-	-	-	ZUB	GMS69E	LP5	-	-	162	-	-
1969-S625	2440535.20	1969 Nov 9 1647	MR-12	-	-	-	-	-	ZUB	GMS69E	LP6	-	-	162	-	-
1969-S657	2440565.83	1969 Dec 10 0800	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	165	-	-
1969-S660	2440566.37	1969 Dec 10 2059	MR-12	-	-	-	-	-	ZUB	GMS69E	LP7	-	-	160	-	-
1969-S661	2440566.43	1969 Dec 10 2213	MR-12	-	-	-	-	-	ZUB	GMS69E	LP7	-	-	160	-	-
1969-S678	2440571.83	1969 Dec 16 0800:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	163	-	-
1969-S683	2440573.51	1969 Dec 18 0015:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	166	-	-
1969-S684	2440573.75	1969 Dec 18 0600:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	162	-	-
1969-S688	2440574.85	1969 Dec 19 0830:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	90	-	-
1969-S689	2440574.97	1969 Dec 19 1115:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1969-S693	2440579.80	1969 Dec 24 0705:00	MR-12	-	MR-12	Particles	-	-	-	GTsP-4	-	-	-	162	-	-
1970-S115	2440629.63	1970 Feb 12 0314:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1970-S116	2440630.44	1970 Feb 12 2240:00	MR-12	-	MR-12	Polar Atm/pressure	-	-	-	OK	-	-	-	171	-	-
1970-S135	2440641.06	1970 Feb 23 1320:00	MR-12	-	MR-12	Wind trail	-	-	-	OK	-	-	-	163	-	-
1970-S147	2440642.55	1970 Feb 25 0105:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	164	-	-
1970-S160	2440644.06	1970 Feb 26 1330:00	MR-12	-	MR-12	Wind trail	-	-	-	OK	-	-	-	150?	-	-
1970-S161	2440644.09	1970 Feb 26 1415:00	MR-12	-	MR-12	Polar Atm/pressure	-	-	-	OK	-	-	-	181	-	-
1970-S178	2440646.08	1970 Feb 28 1351:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	166	-	-
1970-S179	2440646.11	1970 Feb 28 1436:00	MR-12	-	MR-12	Polar Atm/pressure	-	-	-	OK	-	-	-	182	-	-
1970-S170	2440645.50	1970 Mar?	MR-25	-	M-250	-	-	-	-	EMBA	-	-	-	250?	-	-
1970-S171	2440645.50	1970 Mar?	MR-25	-	M-250	-	-	-	-	EMBA	-	-	-	250?	-	-
1970-S181	2440647.52	1970 Mar 02 0025:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1970-S182	2440647.57	1970 Mar 02 0140:00	MR-12	-	MR-12	Polar Atm/pressure	-	-	-	OK	-	-	-	179	-	-
1970-S185	2440648.11	1970 Mar 02 1437:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1970-S194	2440651.49	1970 Mar 05 2350:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	162	-	-
1970-S200	2440652.48	1970 Mar 06 2335:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1970-S202	2440653.12	1970 Mar 07 1450:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	161	-	-
1970-S305	2440692.80	1970 Apr 16 0706:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1970-S306	2440692.81	1970 Apr 16 0730:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	175	-	-
1970-S309	2440692.96	1970 Apr 16 1102:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1970-S320	2440697.75	1970 Apr 21 0601:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	175	-	-
1970-S322	2440698.50	1970 Apr 22	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	170	-	-
1970-S325	2440699.79	1970 Apr 23 0700:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	175	-	-
1970-S326	2440699.81	1970 Apr 23 0732:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1970-S327	2440699.96	1970 Apr 23 1101:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1970-S330	2440700.81	1970 Apr 24 0730:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	175	-	-
1970-S333	2440703.05	1970 Apr 26 1305:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	175	-	-
1970-S407	2440764.26	1970 Jun 26 1820:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	145	-	-
1970-S413	2440769.21	1970 Jul 01 1702:00	MR-12	-	MR-12	Na-Li/Te	-	-	-	GTsP-4	-	-	-	149	-	-
1970-S415	2440771.16	1970 Jul 03 1547:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	167	-	-
1970-S417	2440774.20	1970 Jul 06 1644:00	MR-12	-	MR-12	Na-Li/Te	-	-	-	GTsP-4	-	-	-	149	-	-
1970-S418	2440774.44	1970 Jul 06 2240:00	MR-12	-	MR-12	Na-LI/Te	-	-	-	GTsP-4	-	-	-	171	-	-
1970-S419	2440774.49	1970 Jul 06 2343:00	MR-12	-	MR-12	TMA	-	-	-	GTsP-4	-	-	-	150	-	-
1970-S420	2440774.58	1970 Jul 07 0148:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	169	-	-
1970-S422	2440776.49	1970 Jul 08 2348:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	140	-	-
1970-S424	2440777.24	1970 Jul 09 1752:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	140	-	-
1970-S431	2440781.79	1970 Jul 14 0704:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP1	-	-	171	-	-
1970-S439	2440791.02	1970 Jul 23 1225:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP2	-	-	167	-	-
1970-S442	2440792.19	1970 Jul 24 1640:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP3	-	-	180	-	-
1970-S444	2440793.09	1970 Jul 25 1403:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP4	-	-	150	-	-
1970-S445	2440794.04	1970 Jul 26 1301:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP5	-	-	158	-	-
1970-S446	2440794.22	1970 Jul 26 1720:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP6	-	-	158	-	-
1970-S447	2440794.33	1970 Jul 26 1949:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP7	-	-	180	-	-
1970-S454	2440797.85	1970 Jul 30 0821:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP8	-	-	160	-	-
1970-S456	2440798.10	1970 Jul 30 1426:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP9	-	-	159	-	-
1970-S464	2440802.69	1970 Aug 04 0431:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP10	-	-	165	-	-
1970-S466	2440803.22	1970 Aug 04 1718:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP11	-	-	158	-	-
1970-S469	2440803.85	1970 Aug 05 0820:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP12	-	-	149	-	-
1970-S470	2440804.19	1970 Aug 05 1630:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP13	-	-	149	-	-
1970-S478	2440808.76	1970 Aug 10 0612:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP14	-	-	158	-	-
1970-S479	2440809.19	1970 Aug 10 1637:00	MR-12	-	MR-12	-	-	-	VIZE	GMS70B	LP15	-	-	150	-	-
1970-S571	2440880.05	1970 Oct 20 1305:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1970-S573	2440881.06	1970 Oct 21 1325:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	176	-	-
1970-S574	2440881.10	1970 Oct 21 1430:00	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1970-S575	2440881.13	1970 Oct 21 1503:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	168	-	-
1970-S627	2440918.34	1970 Nov 27 2015:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1970-S650	2440936.88	1970 Dec 16 0903:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1970-S654	2440938.73	1970 Dec 18 0530:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1970-S658	2440942.92	1970 Dec 22 1000:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1970-S659	2440943.27	1970 Dec 22 1825:00	MR-12	-	MR-12	Mass spectrometer	-	-	-	OK	-	-	-	185	-	-
1970-S660	2440943.48	1970 Dec 22 2330:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1970-S662	2440949.08	1970 Dec 28 1400:00	MR-12	-	MR-12	Mass spectrometer	-	-	-	OK	-	-	-	150	-	-
1970-S663	2440950.34	1970 Dec 29 2008:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1971-S83	2440975.34	1971 Jan 23 2008:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1971-S142	2441012.94	1971 Mar 02 1033:00	MR-12	-	MR-12	MX-6407 Mass spec	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S161	2441024.18	1971 Mar 13 1615:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1971-S162	2441024.45	1971 Mar 13 2255:00	MR-12	-	MR-12	Wind trail	-	-	-	OK	-	-	-	150	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S163	2441025.18	1971 Mar 14 1625:00	MR-12	-	MR-12	ne/Te 71-1	-	-	-	OK	-	-	-	158	-	-
1971-S168	2441026.26	1971 Mar 15 1817:00	MR-12	-	MR-12	Mass spectrometer	-	-	-	OK	-	-	-	150	-	-
1971-S174	2441028.20	1971 Mar 17 1655:00	MR-12	-	MR-12	Wind trail	-	-	-	OK	-	-	-	150	-	-
1971-S176	2441029.22	1971 Mar 18 1710:00	MR-12	-	MR-12	Wind trail	-	-	-	OK	-	-	-	150	-	-
1971-S207	2441037.13	1971 Mar 26 1506:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S210	2441039.32	1971 Mar 28 1946:00	MR-12	-	MR-12	ne/Te 71-2	-	-	-	OK	-	-	-	183	-	-
1971-S211	2441039.86	1971 Mar 29 0845:00	MR-12	-	MR-12	ne/Te 71-3	-	-	-	OK	-	-	-	183	-	-
1971-S212	2441040.34	1971 Mar 29 2010:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1971-S223	2441043.44	1971 Apr 1 2240:00	MR-12	-	MR-12	ne/Te 71-4	-	-	-	OK	-	-	-	186	-	-
1971-S243	2441064.04	1971 Apr 22 1300:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S244	2441064.09	1971 Apr 22 1415:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S425	2441195.91	1971 Sep 1 0945	MR-12	-	-	Magnetic	-	-	-	GTsP-4?	-	-	-	177	-	-
1971-S426	2441196.03	1971 Sep 1 1245	MR-12	-	-	Magnetic	-	-	-	GTsP-4?	-	-	-	177	-	-
1971-S444	2441209.30	1971 Sep 14 1910:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S445	2441209.44	1971 Sep 14 2240:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S446	2441210.21	1971 Sep 15 1700:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S447	2441210.30	1971 Sep 15 1918:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S470	2441218.91	1971 Sep 24 0945:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S471	2441218.97	1971 Sep 24 1115:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S472	2441219.03	1971 Sep 24 1245:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S475	2441219.62	1971 Sep 25 0253:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S476	2441220.05	1971 Sep 25 1317:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	165	-	-
1971-S479	2441222.05	1971 Sep 27 1317:00	MR-12	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S485	2441225.91	1971 Oct 01 0945:00	MR-12	-	MR-12	Sun-Atm 71 MX-6407P	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S486	2441225.97	1971 Oct 01 1113:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S487	2441226.03	1971 Oct 01 1243:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S488	2441226.05	1971 Oct 01 1317:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	171	-	-
1971-S490	2441226.63	1971 Oct 02 0306:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S498	2441230.91	1971 Oct 06 0954:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S501	2441231.02	1971 Oct 06 1233:00	MR-12	-	MR-12	Sun-Atm 71 Magnetic	-	-	-	GTsP-4	-	-	-	173	-	-
1971-S504	2441231.09	1971 Oct 06 1408:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S506	2441231.65	1971 Oct 07 0336:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S507	2441231.90	1971 Oct 07 0930:00	MR-12	-	MR-12	Sun-Atm 71 B/MX-6407	-	-	-	GTsP-4	-	-	-	185	-	-
1971-S509	2441231.96	1971 Oct 07 1101:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S510	2441231.96	1971 Oct 07 1101:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S511	2441232.05	1971 Oct 07 1306:00	MR-12	-	-	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S513	2441232.96	1971 Oct 08 1100:00	MR-12	-	MR-12	Sun-Atm 71 MassSp	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S514	2441233.02	1971 Oct 08 1230:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S515	2441233.09	1971 Oct 08 1405:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S518	2441233.96	1971 Oct 09 1100:00	MR-12	-	MR-12	Sun-Atm 71	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S519	2441234.02	1971 Oct 09 1225:00	MR-12	-	MR-12	Sun-Atm 71 Magnetic	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S626	2441240.31	1971 Oct 15 1928	MR-12	-	_	Sun-Atm 71 TMA rel	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S534	2441244.67	1971 Oct 20 0406:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1971-S547	2441258.92	1971 Nov 03 1010:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1971-S551	2441262.89	1971 Nov 07 0918:00	MR-12	-	M-180	-	-	-	-	OK	-	-	-	192	-	-
1971-S571	2441280.03	1971 Nov 24 1243:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S544	2441255.50	1971 Nov?	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP1	-	-	150?	-	-
1971-S576	2441287.03	1971 Dec 01 1250:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S590	2441292.06	1971 Dec 06 1330:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S592	2441292.15	1971 Dec 06 1530:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S593	2441292.19	1971 Dec 06 1630:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1971-S604	2441297.19	1971 Dec 11 1630:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	180	-	-
1971-S606	2441300.15	1971 Dec 14 1541:00	MR-12	-	MR-12	at CSG?	-	-	ZUB	GMS71B	LP2	-	-	151	-	-
1971-S611	2441301.75	1971 Dec 16 0559:00	MR-12	-	MR-12	at CSG?	-	-	ZUB	GMS71B	LP2	-	-	170	-	-
1971-S616	2441311.67	1971 Dec 26 0400:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP3	-	-	179	-	-
1971-S617	2441312.02	1971 Dec 26 1230:00	MR-12	-	MR-12 1054LT	MX-6407P Mass spec	-	-	ZUB	GMS71B	LP3	-	-	150?	-	-
1971-S618	2441312.10	1971 Dec 26 1430:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP3	-	-	175	-	-
1971-S619	2441312.24	1971 Dec 26 1746:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1971-S620	2441312.58	1971 Dec 27 0200:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP3	-	-	176	-	-
1971-S621	2441317.33	1971 Dec 31 1949:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP4	-	-	177	-	-
1971-S622	2441317.37	1971 Dec 31 2049:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP4	-	-	158	-	-
1971-S623	2441317.41	1971 Dec 31 2157:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP4	-	-	179	-	-
1971-S624	2441317.46	1971 Dec 31 2300:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP4	-	-	183	-	-
1972-S30	2441317.80	1972 Jan 01 0705:00	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP5	-	-	180	-	-
1972-S01	2441316.50	1972 Jan?	MR-12	-	MR-12	-	-	-	ZUB	GMS71B	LP5	-	-	150?	-	-
1972-S31	2441317.83	1972 Jan 01 0802:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	180	-	-
1972-S33	2441321.99	1972 Jan 05 1141:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	186	-	-
1972-S73	2441358.64	1972 Feb 11 0320:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	177	-	-
1972-S74	2441359.00	1972 Feb 11 1200:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	173	-	-
1972-S83	2441365.61	1972 Feb 18 0233:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	168	-	-
1972-S87	2441369.04	1972 Feb 21 1255:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1972-S88	2441369.07	1972 Feb 21 1335:00	MR-12	-	MR-12	Ionos	-	-	-	OK	-	-	-	187	-	-
1972-S94	2441378.55	1972 Mar 2 0117:00	MR-12	?	-	-	-	-	-	OK	-	-	-	170	-	-
1972-S449	2441380.50	1972 Mar 4 0003	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170?	-	-
1972-S97	2441380.99	1972 Mar 4 1152:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	174	-	-
1972-S98	2441381.06	1972 Mar 4 1322:00	MR-12	-	MR-12	Polar thermosphere	-	-	-	OK	-	-	-	184	-	-
1972-S99	2441381.28	1972 Mar 4 1848	MR-12	-	MR-12	Polar thermosphere	-	-	-	OK	-	-	-	173	-	-
1972-S451	2441381.49	1972 Mar 4 2352	MR-12	-	-	Composition	-	-	-	OK	-	-	-	150?	-	-
1972-S106	2441385.42	1972 Mar 8 2210:00	MR-12	-	MR-12	Polar thermosphere	-	-	-	OK	-	-	-	169	-	-
1972-S123	2441394.21	1972 Mar 17 1656:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	168	-	-
1972-S124	2441394.21	1972 Mar 17 1704:00	MR-12	-	MR-12	Ionos	-	-	-	OK	-	-	-	189	-	-
1972-S125	2441394.29	1972 Mar 17 1901:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	173	-	-
1972-S126	2441394.34	1972 Mar 17 2003:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	176	-	-
1972-S129	2441396.91	1972 Mar 20 0945:00	MR-12	-	M-180 (Mar 21?)	-	-	-	-	OK	-	-	-	192	-	-
1972-S150	2441412.85	1972 Apr 05 0831:00	MR-12	-	MR-12	Polar thermosphere	-	-	-	OK	-	-	-	150?	-	-
1972-S450	2441422.86	1972 Apr 15 0838	MR-12	-	-	Composition	-	-	-	OK	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S364	2441616.06	1972 Oct 25 1322	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	160	-	-
1972-S368	2441616.96	1972 Oct 26 1100	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	170	-	-
1972-S370	2441618.46	1972 Oct 27 2302	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	170	-	-
1972-S373	2441621.42	1972 Oct 30 2200?	MR-12	-	-	N2 concentration	-	-	-	GTsP-4	-	-	-	165	-	-
1972-S374	2441621.94	1972 Oct 31 1030	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	120	-	-
1972-S379	2441622.61	1972 Nov 1 0240	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	160	-	-
1972-S402	2441644.62	1972 Nov 23 0300	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	180	-	-
1972-S410	2441652.71	1972 Dec 1 0504	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	165	-	-
1972-S411	2441652.88	1972 Dec 1 0902	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	180	-	-
1972-S412	2441653.03	1972 Dec 1 1239	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	160	-	-
1972-S445	2441673.71	1972 Dec 22 0500	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	160	-	-
1973-S176	2441832.33	1973 May 29 2000	MR-12	-	-	Zarnitsa-1	-	-	-	GTsP-4	-	-	-	162	-	-
1973-W775	2441845.58	1973 Jun 12 0154:00	MR-12	-	MR-12	TOFMS/RFMS	-	-	-	GTsP-4	-	-	-	168	-	-
1973-S460	2441845.83	1973 Jun 12 0801	MR-12	-	GMS S-0173	-	-	-	VIZE	GMS73C	LP1	-	-	150?	-	-
1973-S454	2441845.99	1973 Jun 12 1150	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	120	-	-
1973-S455	2441846.18	1973 Jun 12 1624	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	120	-	-
1973-S162	2441846.30	1973 Jun 12 1917	MR-12	-	GMS S-0273	-	-	-	VIZE	GMS73C	LP2	-	-	150?	-	-
1973-S456	2441846.40	1973 Jun 12 2133	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1973-S177	2441847.09	1973 Jun 13 1407	MR-12	-	GMS S-0373	-	-	-	VIZE	GMS73C	LP3	-	-	150?	-	-
1973-S458	2441847.63	1973 Jun 14 0312	MR-12	-	GMS S-0473	-	-	-	VIZE	GMS73C	LP4	-	-	150?	-	-
1973-S459	2441847.83	1973 Jun 14 0759	MR-12	-	GMS S-0573	-	-	-	VIZE	GMS73C	LP5	-	-	150?	-	-
1973-S457	2441848.03	1973 Jun 14 1240	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1973-S485	2441852.50	1973 Jun 19	MR-12	-	-	Ozone	-	-	-	GTsP-4?	-	-	-	150?	-	-
1973-S212	2441862.50	1973 Jun 29	MR-12	?	-	FEYERVERK	-	-	-	OK?	-	-	-	160	-	-
1973-S252	2441862.93	1973 Jun 29 1019	MR-12	-	8	Eclipse control	-	-	VIZE	GMS73C	LP6	-	-	150?	-	-
1973-S219	2441863.93	1973 Jun 30 1014:38	MR-12	-	-	Eclipse	-	-	VIZE	GMS73C	LP6	-	-	150?	-	-
1973-S461	2441864.05	1973 Jun 30 1305	MR-12	-	-	Eclipse control	-	-	VIZE	GMS73C	LP6	-	-	150?	-	-
1973-S224	2441864.93	1973 Jul 1 1015:00	MR-12	-	B-37	Eclipse control	-	-	VIZE	GMS73C	LP6	-	-	175	-	-
1973-S232	2441876.12	1973 Jul 12 1449:00	MR-12	-	B-38	-	-	-	VIZE	GMS73C	LP7	-	-	175	-	-
1973-S242	2441883.39	1973 Jul 19 2121:00	MR-12	-	B-39	-	-	-	VIZE	GMS73C	LP8	-	-	175	-	-
1973-S245	2441883.78	1973 Jul 20 0648:00	MR-12	-	B-40	-	-	-	VIZE	GMS73C	LP9	-	-	175	-	-
1973-S253	2441863.50	1973 Jul?	MR-12	-	9	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S254	2441863.50	1973 Jul?	MR-12	-	10	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S255	2441863.50	1973 Jul?	MR-12	-	11	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S256	2441894.50	1973 Aug?	MR-12	-	12	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S257	2441894.50	1973 Aug?	MR-12	-	13	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S258	2441894.50	1973 Aug?	MR-12	-	14	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S259	2441894.50	1973 Aug	MR-12	-	15	-	-	-	VIZE	GMS73C	LP10	-	-	150?	-	-
1973-S306	2441940.85	1973 Sep 15 0823:00	MR-12	-	X-141	Composition	-	-	-	OK	-	-	-	150?	-	-
1973-S320	2441953.21	1973 Sep 27 1701:00	MR-12	-	X-142	Composition	-	-	-	OK	-	-	-	141	-	-
1973-S350	2441973.25	1973 Oct 17 1807:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	186	-	-
1973-S364	2441979.02	1973 Oct 23 1234:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	154	-	-
1973-S368	2441985.84	1973 Oct 30 0808:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	150?	-	-
1973-S410	2442015.43	1973 Nov 28 2213:00	MR-12	-	MR-12	D-75MG	-	-	-	GTsP-4	-	-	-	150	-	-
1973-S430	2442023.98	1973 Dec 07 1132:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	189	-	-
1973-S432	2442024.00	1973 Dec 07 1156:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150	-	-
1973-S447	2442041.84	1973 Dec 25 0808:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	190	-	-
1974-S99	2442092.15	1974 Feb 13 1536:00	MR-12	-	D-75MG	IPOCAMP?	-	-	-	OK	-	-	-	184	-	-
1974-S102	2442094.01	1974 Feb 15 1215:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1974-S117	2442103.09	1974 Feb 24 1410:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1974-S125	2442111.94	1974 Mar 05 1035:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	162	-	-
1974-S131	2442120.33	1974 Mar 13 1955:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	171	-	-
1974-S132	2442121.02	1974 Mar 14 1235:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	177	-	-
1974-S133	2442121.22	1974 Mar 14 1715:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	177	-	-
1974-S134	2442121.32	1974 Mar 14 1935:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	162	-	-
1974-S135	2442122.33	1974 Mar 15 2000:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	173	-	-
1974-S140	2442124.34	1974 Mar 17 2015:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	167	-	-
1974-S141	2442126.23	1974 Mar 19 1730:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	146	-	-
1974-S145	2442128.20	1974 Mar 21 1643:00	MR-12	-	MR-12	Ionos	-	-	-	OK	-	-	-	178	-	-
1974-S154	2442135.68	1974 Mar 29 0424:00	MR-12	-	IPOCAMP	Franco/Sov (1/4)	-	-	-	OK	-	-	-	167	-	-
1974-S163	2442141.10	1974 Apr 03 1422:00	MR-12	-	MR-12	Particles	-	-	-	OK	-	-	-	184	-	-
1974-S166	2442142.07	1974 Apr 04 1343:00	MR-12	-	MR-12	Ionos	-	-	-	OK	-	-	-	178	-	-
1974-S227	2442218.84	1974 Jun 20 0815:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	160	-	-
1974-S228	2442219.34	1974 Jun 20 2003:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	160	-	-
1974-S230	2442220.00	1974 Jun 21 1206:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1974-S307	2442310.10	1974 Sep 19 1426:00	MR-12	-	MR-12	Diurnal campaign	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S308	2442310.16	1974 Sep 19 1547:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S309	2442310.23	1974 Sep 19 1731:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S310	2442310.29	1974 Sep 19 1900:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S312	2442310.67	1974 Sep 20 0400:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S313	2442310.75	1974 Sep 20 0600:00	MR-12	-	MR-12	Impedance probe	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S314	2442310.80	1974 Sep 20 0718:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S315	2442310.92	1974 Sep 20 1000:00	MR-12	-	MR-12	Impedance probe	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S316	2442310.96	1974 Sep 20 1100:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S318	2442311.06	1974 Sep 20 1330:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S319	2442311.32	1974 Sep 20 1936:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S320	2442311.43	1974 Sep 20 2220:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S321	2442311.44	1974 Sep 20 2236:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S323	2442311.63	1974 Sep 21 0310:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S324	2442311.75	1974 Sep 21 0600:00	MR-12	-	MR-12	Ozone	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S353	2442336.12	1974 Oct 15 1453:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S354	2442336.35	1974 Oct 15 2030:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S355	2442336.59	1974 Oct 16 0214:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1974-S376	2442365.91	1974 Nov 14 0946:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	150?	-	-
1974-S377	2442367.71	1974 Nov 16 0506:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	150?	-	-
1974-S378	2442367.89	1974 Nov 16 0921:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S382	2442371.91	1974 Nov 20 0946:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1974-S424	2442402.89	1974 Dec 21 0926:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150?	-	-
1974-S426	2442406.26	1974 Dec 24 1813:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	150?	-	-
1975-S140	2442532.50	1975 May	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S141	2442532.50	1975 May?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S171	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S172	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	LP1	-	-	150?	-	-
1975-S173	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S174	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S175	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S176	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S177	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S178	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	LP2	-	-	150?	-	-
1975-S179	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S180	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S181	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S182	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S183	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S184	2442563.50	1975 Jun?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S217	2442593.50	1975 Jul?	MR-12	-	-	-	-	-	ZUB	GMS75D	ULP1	-	-	150?	-	-
1975-S218	2442593.50	1975 Jul	MR-12	-	-	-	-	-	ZUB	GMS75D	LP3	-	-	150?	-	-
1975-S266	2442660.19	1975 Sep 04 1635:00	MR-12	-	MR-12	Spolokh-1	-	-	-	GTsP-4	-	-	-	170	-	-
1975-S273	2442667.36	1975 Sep 11 2040:00	MR-12	-	MR-12	Zarnitsa-2	-	-	-	GTsP-4	-	-	-	154	-	-
1975-S292	2442687.15	1975 Oct 01 1535:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	162	-	-
1975-S294	2442687.88	1975 Oct 02 0900:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	168	-	-
1975-S295	2442688.15	1975 Oct 02 1535:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	164	-	-
1975-S296	2442688.38	1975 Oct 02 2105:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1975-S303	2442701.59	1975 Oct 16 0210:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1975-S309	2442715.10	1975 Oct 29 1428:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	164	-	-
1975-S313	2442716.97	1975 Oct 31 1117:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	152	-	-
1975-S311	2442716.50	1975 Nov	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1975-S312	2442716.50	1975 Nov?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1975-S331	2442746.50	1975 Dec?	MR-12	-	-	-	-	-	ZUB	GMS75F	LP1	-	-	150?	-	-
1975-S332	2442746.50	1975 Dec?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1975-S333	2442746.50	1975 Dec?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1975-S334	2442746.50	1975 Dec?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1976-S02	2442777.50	1976 Jan?	MR-12	-	-	-	-	-	ZUB	GMS75F	LP2	-	-	150?	-	-
1976-S03	2442777.50	1976 Jan?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1976-S04	2442777.50	1976 Jan?	MR-12	-	-	-	-	-	ZUB	GMS75F	LP3	-	-	150?	-	-
1976-S05	2442777.50	1976 Jan?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1976-S86	2442808.50	1976 Feb?	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1976-S87	2442808.50	1976 Feb	MR-12	-	-	-	-	-	ZUB	GMS75F	ULP1	-	-	150?	-	-
1976-S113	2442836.54	1976 Feb 28 0055:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	185	-	-
1976-S116	2442837.10	1976 Feb 28 1422:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	176	-	-
1976-S117	2442837.38	1976 Feb 28 2101:00	MR-12	-	MR-12	E Field	-	-	-	OK	-	-	-	190	-	-
1976-S118	2442837.55	1976 Feb 29 0115:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	180	-	-
1976-S121	2442840.51	1976 Mar 03 0010:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	164	-	-
1976-S124	2442841.50	1976 Mar 04 0001:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	175	-	-
1976-S129	2442843.49	1976 Mar 05 2345:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	176	-	-
1976-S127	2442844.28	1976 Mar 06 1848:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	180	-	-
1976-S130	2442844.48	1976 Mar 06 2330:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	142	-	-
1976-S131	2442846.46	1976 Mar 08 2256:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1976-S136	2442855.36	1976 Mar 17 2035:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1976-S137	2442855.52	1976 Mar 18 0028:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1976-S138	2442855.84	1976 Mar 18 0808:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	150	-	-
1976-S251	2443009.21	1976 Aug 18 1659:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S252	2443009.36	1976 Aug 18 2040:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S258	2443010.20	1976 Aug 19 1652:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S259	2443010.36	1976 Aug 19 2035:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S254	2443009.53	1976 Aug 19 0043:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S255	2443009.72	1976 Aug 19 0515:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S256	2443009.88	1976 Aug 19 0900:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S257	2443009.95	1976 Aug 19 1045:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S260	2443010.53	1976 Aug 20 0042:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S261	2443010.59	1976 Aug 20 0215:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S262	2443010.72	1976 Aug 20 0515:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S263	2443010.88	1976 Aug 20 0900:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S264	2443011.07	1976 Aug 20 1345:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S267	2443011.53	1976 Aug 21 0047:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1976-S234	2442990.50	1976 Aug	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S235	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S236	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S237	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S238	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S239	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S240	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S241	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S242	2442990.50	1976 Aug?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S275	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S276	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S277	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S278	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S279	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S280	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S281	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S282	2443021.50	1976 Sep?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-S299	2443051.50	1976 Oct?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S300	2443051.50	1976 Oct?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S301	2443051.50	1976 Oct?	MR-12	-	MR-12	-	-	-	VIZE	GMS76F	LP1	-	-	150?	-	-
1976-S316	2443082.50	1976 Nov?	MR-12	-	MR-12 IOR?	-	-	-	VIZE	GMS76F	LP2	-	-	150?	-	-
1976-S343	2443119.97	1976 Dec 07 1120:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1976-S344	2443120.97	1976 Dec 08 1120:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1977-S50	2443171.32	1977 Jan 27 1935:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	157	-	-
1977-S66	2443184.23	1977 Feb 09 1729:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	167	-	-
1977-S68	2443184.64	1977 Feb 10 0315:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	152	-	-
1977-S74	2443188.01	1977 Feb 13 1219:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	151	-	-
1977-S88	2443195.57	1977 Feb 21 0137:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	153	-	-
1977-S92	2443198.56	1977 Feb 24 0130:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1977-S100	2443209.48	1977 Mar 06 2331:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	170	-	-
1977-S102	2443210.16	1977 Mar 07 1553:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1977-S108	2443216.40	1977 Mar 13 2131:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	163	-	-
1977-S112	2443219.26	1977 Mar 16 1810:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	172	-	-
1977-S113	2443219.34	1977 Mar 16 2005:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	160	-	-
1977-S116	2443219.67	1977 Mar 17 0359:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1977-S119	2443221.38	1977 Mar 18 2105:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1977-S118	2443221.34	1977 Mar 18 2010:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	162	-	-
1977-S126	2443227.05	1977 Mar 24 1310:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1977-S132	2443231.30	1977 Mar 28 1906:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	155	-	-
1977-S133	2443231.44	1977 Mar 28 2231:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	169	-	-
1977-S134	2443231.50	1977 Mar 29 0006:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	170	-	-
1977-S135	2443231.59	1977 Mar 29 0216:00	MR-12	-	MR-12	Composition	-	-	-	OK	-	-	-	168	-	-
1977-S136	2443231.65	1977 Mar 29 0337:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1977-S142	2443239.58	1977 Apr 06 0155:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	174	-	-
1977-S143	2443239.63	1977 Apr 06 0301:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	171	-	-
1977-S152	2443263.50	1977 May	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S153	2443263.50	1977 May?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S175	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S176	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S177	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S178	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S179	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S180	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S181	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S182	2443294.50	1977 Jun?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S209	2443324.50	1977 Jul?	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S210	2443324.50	1977 Jul	MR-12	-	MR-12	-	-	-	VIZE	GMS77F	ULP1	-	-	150?	-	-
1977-S247	2443400.50	1977 Sep 14	MR-12	-	-	IKO	-	-	-	GTsP-4	-	-	-	93	-	-
1977-S257	2443420.60	1977 Oct 04 0220:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1977-S268	2443445.50	1977 Oct 29	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1977-S269	2443446.50	1977 Oct 30	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1977-S457	2443485.36	1977 Dec 7 2040	MR-12	-	-	Kust-1	Plasma engine test	-	-	GTsP-4	-	-	-	160	-	-
1978-S45	2443520.50	1978 Jan 11 2355	MR-12	-	MR-12	STERETOP	-	-	-	GTsP-4	-	-	-	150?	-	-
1978-S78	2443567.50	1978 Mar	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP1	-	-	150?	-	-
1978-S103	2443605.95	1978 Apr 07 1045:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP2	-	-	178	-	-
1978-S115	2443617.94	1978 Apr 19 1035:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP3	-	-	161	-	-
1978-S116	2443618.15	1978 Apr 19 1537:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP3	-	-	170	-	-
1978-S119	2443619.83	1978 Apr 21 0752:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP4	-	-	150?	-	-
1978-S120	2443620.24	1978 Apr 21 1740:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP4	-	-	170	-	-
1978-S121	2443620.27	1978 Apr 21 1830:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP4	-	-	170	-	-
1978-S118	2443619.77	1978 Apr 21 0626:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP4	-	-	170	-	-
1978-S117	2443619.73	1978 Apr 21 0529:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP4	-	-	170	-	-
1978-S127	2443632.76	1978 May 04 0614:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP5	-	-	168	-	-
1978-S128	2443632.80	1978 May 04 0705:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP5	-	-	165	-	-
1978-S129	2443633.27	1978 May 04 1829:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP6	-	-	168	-	-
1978-S130	2443633.77	1978 May 05 0630:00	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP7	-	-	160	-	-
1978-S145	2443659.36	1978 May 30 2035:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1978-S149	2443666.24	1978 Jun 06 1741:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	180	-	-
1978-S150	2443666.36	1978 Jun 06 2035:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	176	-	-
1978-S151	2443666.47	1978 Jun 06 2321:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	176	-	-
1978-S154	2443670.77	1978 Jun 11 0627:00	MR-12	-	D-75MG	JASPIC	Wallops I Coast	-	VIZE	GMS78A	LP8	-	-	170	-	-
1978-S159	2443679.67	1978 Jun 20 0410:00	MR-12	-	D-75MG	JASPIC	-	-	VIZE	GMS78A	LP8	-	-	175	-	-
1978-S164	2443683.59	1978 Jun 24 0213:00	MR-12	-	D-75MG	JASPIC	-	-	VIZE	GMS78A	LP8	-	-	168	-	-
1978-S166	2443685.56	1978 Jun 26 0131:00	MR-12	-	D-75MG	JASPIC	-	-	VIZE	GMS78A	LP8	-	-	165	-	-
1978-S270	2443685.60	1978 Jun 26 0231:00	MR-12	-	D-75MG	JASPIC	-	-	VIZE	GMS78A	LP8	-	-	165	-	-
1978-S337	2443689.25	1978 Jun 29 1805	MR-12	-	-	Spolokh-2	-	-	-	GTsP-4	-	-	-	155	-	-
1978-S171	2443689.50	1978 Jul?	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP9	-	-	150?	-	-
1978-S172	2443689.50	1978 Jul?	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP9	-	-	150?	-	-
1978-S173	2443689.50	1978 Jul	MR-12	-	MR-12	-	-	-	VIZE	GMS78A	LP9	-	-	150?	-	-
1978-S218	2443787.58	1978 Oct 06 0155:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	125	-	-
1978-S240	2443843.00	1978 Nov 30 1200:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1978-S241	2443843.17	1978 Nov 30 1600:00	MR-12	-	-	Kust-2	Plasma engine test	-	-	GTsP-4	-	-	-	161	-	-
1978-S242	2443843.29	1978 Nov 30 1855:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1978-S244	2443843.45	1978 Nov 30 2255:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	190	-	-
1978-S245	2443843.54	1978 Dec 01 0055:00	MR-12	-	MR-12	Stereotop	-	-	-	GTsP-4	-	-	-	165	-	-
1979-S01	2443873.50	1979	MR-20	-	MR-20	LKI	-	-	-	GTsP-4	-	-	-	250?	-	-
1979-S40	2443894.76	1979 Jan 21 0616:00	MR-12	-	MR-12	Kust-3	-	-	-	OK	-	-	-	190	-	-
1979-S58	2443912.69	1979 Feb 08 0437:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	155	-	-
1979-S71	2443928.09	1979 Feb 23 1409:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	187	-	-
1979-S92	2443939.14	1979 Mar 06 1527:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1979-S93	2443943.28	1979 Mar 10 1843:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	160	-	-
1979-S95	2443946.41	1979 Mar 13 2152:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	188	-	-
1979-S97	2443950.24	1979 Mar 17 1742:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	187	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-S105	2443958.62	1979 Mar 26 0253:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1979-S108	2443963.61	1979 Mar 31 0245:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	165	-	-
1979-S115	2443968.52	1979 Apr 05 0034:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	175	-	-
1979-S116	2443970.58	1979 Apr 07 0148:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	170	-	-
1979-S120	2443974.95	1979 Apr 11 1045:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	180	-	-
1979-S122	2443978.28	1979 Apr 14 1844:00	MR-12	-	MR-12	-	-	-	-	OK	-	-	-	175	-	-
1979-S148	2444040.27	1979 Jun 15 1830:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1979-S181	2444093.22	1979 Aug 07 1714:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1979-S183	2444096.22	1979 Aug 10 1712:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1979-S191	2444108.20	1979 Aug 22 1642:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	155	-	-
1979-S221	2444164.12	1979 Oct 17 1450:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	160	-	-
1979-S222	2444164.54	1979 Oct 18 0055:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1979-S227	2444168.88	1979 Oct 22 0900:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1979-S231	2444172.34	1979 Oct 25 2005:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1979-S253	2444226.58	1979 Dec 19 0157:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1979-S255	2444228.00	1979 Dec 20 1158:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1979-S257	2444234.09	1979 Dec 26 1405:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	170	-	-
1979-S258	2444235.09	1979 Dec 27 1407:00	MR-12	-	MR-12	-	-	-	-	GTsP-4	-	-	-	165	-	-
1980-S98	2444358.12	1980 Apr 28 1500:00	MR-12	-	-	Aelita-2	-	-	-	OK	-	-	-	155	-	-
1980-S96	2444357.59	1980 Apr 28 0209:00	MR-12	-	MMR-12	Ariel-4	-	-	-	GTsP-4	-	-	-	155	-	-
1980-S74	2444329.50	1980 Apr	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S75	2444329.50	1980 Apr?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S76	2444329.50	1980 Apr?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S77	2444329.50	1980 Apr?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S78	2444329.50	1980 Apr?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S79	2444329.50	1980 Apr?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S99	2444359.50	1980 May?	MR-12	-	-	-	-	-	ZUB	GMS80C	LP1	-	-	150?	-	-
1980-S100	2444359.50	1980 May?	MR-12	-	-	-	-	-	ZUB	GMS80C	LP2	-	-	150?	-	-
1980-S101	2444359.50	1980 May?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S102	2444359.50	1980 May?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S103	2444359.50	1980 May?	MR-12	-	-	-	-	-	ZUB	GMS80C	LP3	-	-	150?	-	-
1980-S118	2444390.50	1980 Jun?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S119	2444390.50	1980 Jun?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S120	2444390.50	1980 Jun?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S121	2444390.50	1980 Jun?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S122	2444390.50	1980 Jun?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S132	2444420.50	1980 Jul?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S133	2444420.50	1980 Jul?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S134	2444420.50	1980 Jul?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S135	2444420.50	1980 Jul?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S136	2444420.50	1980 Jul?	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S137	2444420.50	1980 Jul	MR-12	-	-	-	-	-	ZUB	GMS80C	ULP1	-	-	150?	-	-
1980-S211	2444564.83	1980 Nov 21 0752:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S212	2444568.84	1980 Nov 25 0810:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S223	2444578.85	1980 Dec 05 0820:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S230	2444585.55	1980 Dec 12 0105:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S231	2444585.57	1980 Dec 12 0145:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S232	2444585.80	1980 Dec 12 0715:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S237	2444590.56	1980 Dec 17 0120:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1980-S238	2444592.46	1980 Dec 18 2300:00	MR-12	-	-	Energy Budget	-	-	-	OK	-	-	-	166	-	-
1981-S102	2444724.50	1981 May	MR-12	-	-	-	-	-	ZUB	GMS81D	LP1	-	-	150?	-	-
1981-S103	2444724.50	1981 May?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S104	2444724.50	1981 May?	MR-12	-	-	-	-	-	ZUB	GMS81D	LP2	-	-	150?	-	-
1981-S105	2444724.50	1981 May?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S111	2444755.50	1981 Jun?	MR-12	-	-	-	-	-	ZUB	GMS81D	LP3	-	-	150?	-	-
1981-S112	2444755.50	1981 Jun?	MR-12	-	-	-	-	-	ZUB	GMS81D	LP4	-	-	150?	-	-
1981-S113	2444755.50	1981 Jun?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S114	2444755.50	1981 Jun?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S123	2444785.50	1981 Jul?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S124	2444785.50	1981 Jul?	MR-12	-	-	-	-	-	ZUB	GMS81D	LP5	-	-	150?	-	-
1981-S125	2444785.50	1981 Jul?	MR-12	-	-	-	-	-	ZUB	GMS81D	LP6	-	-	150?	-	-
1981-S132	2444816.50	1981 Aug?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S133	2444816.50	1981 Aug?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S134	2444816.50	1981 Aug?	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1981-S135	2444816.50	1981 Aug	MR-12	-	-	-	-	-	ZUB	GMS81D	ULP1	-	-	150?	-	-
1982-S50	2445000.50	1982 Feb	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S51	2445000.50	1982 Feb?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S63	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S64	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S65	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S66	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S67	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S68	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S69	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S70	2445028.50	1982 Mar?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	LP1	-	-	150?	-	-
1982-S95	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S96	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S97	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S98	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S99	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S100	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S101	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S102	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S103	2445059.50	1982 Apr?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S113	2445089.50	1982 May?	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-
1982-S114	2445089.50	1982 May	MR-12	-	D-75MG	-	-	-	VIZE	GMS82A	ULP1	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-S136	2445546.50	1983 Aug	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S137	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S138	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S139	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S140	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S141	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S142	2445546.50	1983 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S153	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S154	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S155	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S156	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S157	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S158	2445577.50	1983 Sep?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S176	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S177	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S178	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S179	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S180	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S181	2445607.50	1983 Oct?	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1983-S182	2445607.50	1983 Oct	MR-12	-	D-75MG	-	-	-	VIZE	GMS83B	ULP1	-	-	150?	-	-
1985-S30	2446096.50	1985 Feb	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S31	2446096.50	1985 Feb?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S32	2446096.50	1985 Feb?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S47	2446124.50	1985 Mar?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S48	2446124.50	1985 Mar?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S49	2446124.50	1985 Mar?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S50	2446124.50	1985 Mar?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S58	2446142.50	1985 Mar 18 0005	MR-20	-	-	Plazma	-	-	ZUB	GMS85A	LP1	-	-	250?	-	-
1985-S65	2446155.50	1985 Apr?	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S66	2446155.50	1985 Apr	MR-12	-	-	-	-	-	ZUB	GMS85A	ULP1	-	-	150?	-	-
1985-S102	2446277.50	1985 Aug	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S103	2446277.50	1985 Aug?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S106	2446308.50	1985 Sep?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S107	2446308.50	1985 Sep?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S108	2446308.50	1985 Sep?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S109	2446308.50	1985 Sep?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S123	2446338.50	1985 Oct?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S124	2446338.50	1985 Oct?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S125	2446338.50	1985 Oct?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S126	2446338.50	1985 Oct?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S127	2446338.50	1985 Oct?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S132	2446369.50	1985 Nov?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S133	2446369.50	1985 Nov?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S134	2446369.50	1985 Nov?	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1985-S135	2446369.50	1985 Nov	MR-12	-	-	-	-	-	ZUB	GMS85B	ULP1	-	-	150?	-	-
1986-S50	2446581.50	1986 Jun	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S51	2446581.50	1986 Jun?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S62	2446611.50	1986 Jul?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S63	2446611.50	1986 Jul?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S64	2446611.50	1986 Jul?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S65	2446611.50	1986 Jul?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S66	2446611.50	1986 Jul?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S74	2446642.50	1986 Aug?	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S75	2446642.50	1986 Aug	MR-12	-	D-75MG	-	-	-	VIZE	GMS86B	ULP1	-	-	150?	-	-
1986-S83	2446673.50	1986 Sep	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S84	2446673.50	1986 Sep?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S85	2446673.50	1986 Sep?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S86	2446673.50	1986 Sep?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S95	2446703.50	1986 Oct?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S96	2446703.50	1986 Oct?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S97	2446703.50	1986 Oct?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S98	2446703.50	1986 Oct?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S99	2446703.50	1986 Oct?	MR-12	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	150?	-	-
1986-S105	2446734.50	1986 Nov?	MR-20	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	250?	-	-
1986-S106	2446734.50	1986 Nov?	MR-20	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	250?	-	-
1986-S107	2446734.50	1986 Nov?	MR-20	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	250?	-	-
1986-S108	2446734.50	1986 Nov?	MR-20	?	-	-	-	-	ZUB	GMS86D	ULP1	-	-	250?	-	-
1987-S92	2446946.50	1987 Jun	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S93	2446946.50	1987 Jun?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S94	2446946.50	1987 Jun?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S95	2446946.50	1987 Jun?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S96	2446946.50	1987 Jun?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S101	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S102	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S103	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S104	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S105	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S106	2446976.50	1987 Jul?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S118	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S119	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S120	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S121	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S122	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S123	2447007.50	1987 Aug?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S237	2447014.50	1987 Aug 7	MR-12	?	Start	AMPDU-1	Plasma engine test	-	-	GTsP-4?	-	-	-	250?	-	-
1987-S136	2447038.50	1987 Sep?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S137	2447038.50	1987 Sep?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S138	2447038.50	1987 Sep?	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S139	2447038.50	1987 Sep	MR-20	-	-	-	-	-	ZUB	GMS87E	ULP1	-	-	250?	-	-
1987-S238	2447047.50	1987 Sep 9	MR-20	-	Start	AMPDU-2	Plasma engine test	-	-	GTsP-4?	-	-	-	250?	-	-
1988-S73	2447251.50	1988 Apr?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S85	2447281.50	1988 May?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S86	2447281.50	1988 May?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S87	2447281.50	1988 May?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S88	2447281.50	1988 May?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S89	2447281.50	1988 May?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S97	2447312.50	1988 Jun?	MR-20	-	MR-20	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1988-S101	2447342.50	1988 Jul?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S102	2447342.50	1988 Jul?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S108	2447373.50	1988 Aug?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S109	2447373.50	1988 Aug?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S110	2447373.50	1988 Aug?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S112	2447404.50	1988 Sep?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S113	2447404.50	1988 Sep?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S114	2447404.50	1988 Sep?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S121	2447434.50	1988 Oct?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S122	2447434.50	1988 Oct?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S123	2447434.50	1988 Oct?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S124	2447434.50	1988 Oct?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S131	2447465.50	1988 Nov?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S132	2447465.50	1988 Nov?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S140	2447495.50	1988 Dec?	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1988-S141	2447495.50	1988 Dec	MR-20	-	-	-	-	-	VIZE	GMS88C	ULP1	-	-	250?	-	-
1989-S64	2447707.50	1989 Jul	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S65	2447707.50	1989 Jul?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S66	2447707.50	1989 Jul?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S67	2447707.50	1989 Jul?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S75	2447738.50	1989 Aug?	MR-20	-	-	-	-	-	ZUB	GMS89B	LP1	-	-	250?	-	-
1989-S76	2447738.50	1989 Aug?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S77	2447738.50	1989 Aug?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S78	2447738.50	1989 Aug?	MR-20	-	-	-	-	-	ZUB	GMS89B	LP2	-	-	250?	-	-
1989-S84	2447769.50	1989 Sep?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S85	2447769.50	1989 Sep?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S86	2447769.50	1989 Sep?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S87	2447769.50	1989 Sep?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S98	2447799.50	1989 Oct?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S99	2447799.50	1989 Oct?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S100	2447799.50	1989 Oct?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S101	2447799.50	1989 Oct?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S136	2447827.50	1989 Oct 28	MR-12	-	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1989-S103	2447830.50	1989 Nov?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S104	2447830.50	1989 Nov?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S105	2447830.50	1989 Nov?	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1989-S106	2447830.50	1989 Nov	MR-20	-	-	-	-	-	ZUB	GMS89B	ULP1	-	-	250?	-	-
1990-S01	2447891.50	1990	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1990-S02	2447891.50	1990	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1990-S03	2447891.50	1990	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1990-S04	2447891.50	1990	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1990-S05	2447891.50	1990	MR-12	?	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1990-S107	2448103.50	1990 Aug	MR-20	-	-	-	-	-	ZUB	GMS90D	LP1	-	-	250?	-	-
1990-S108	2448103.50	1990 Aug?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S109	2448103.50	1990 Aug?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S110	2448103.50	1990 Aug?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S111	2448103.50	1990 Aug?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP2	-	-	250?	-	-
1990-S126	2448134.50	1990 Sep?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP3	-	-	250?	-	-
1990-S127	2448134.50	1990 Sep?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S128	2448134.50	1990 Sep?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S129	2448134.50	1990 Sep?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S130	2448134.50	1990 Sep?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP4	-	-	250?	-	-
1990-S135	2448164.50	1990 Oct?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP5	-	-	250?	-	-
1990-S136	2448164.50	1990 Oct?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S137	2448164.50	1990 Oct?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S138	2448164.50	1990 Oct?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP6	-	-	250?	-	-
1990-S143	2448195.50	1990 Nov?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP7	-	-	250?	-	-
1990-S144	2448195.50	1990 Nov?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S145	2448195.50	1990 Nov?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S146	2448195.50	1990 Nov?	MR-20	-	-	-	-	-	ZUB	GMS90D	LP8	-	-	250?	-	-
1990-S162	2448225.50	1990 Dec?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S163	2448225.50	1990 Dec?	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1990-S164	2448225.50	1990 Dec	MR-20	-	-	-	-	-	ZUB	GMS90D	ULP1	-	-	250?	-	-
1991-S01	2448256.50	1991	MR-20	?	-	-	-	-	-	GTsP-4?	-	-	-	250?	-	-
1991-S02	2448256.50	1991	MR-20	?	-	-	-	-	-	GTsP-4?	-	-	-	250?	-	-
1991-S61	2448294.23	1991 Feb 6 1730	MR-12	-	MR-12	E field	-	-	-	GTsP-4	-	-	-	150	-	-
1991-S117	2448437.50	1991 Jul	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S118	2448437.50	1991 Jul?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S119	2448437.50	1991 Jul?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S120	2448437.50	1991 Jul?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S128	2448468.50	1991 Aug?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S129	2448468.50	1991 Aug?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S130	2448468.50	1991 Aug?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S131	2448468.50	1991 Aug?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S139	2448499.50	1991 Sep?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-S140	2448499.50	1991 Sep?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S141	2448499.50	1991 Sep?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S142	2448499.50	1991 Sep?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S154	2448529.50	1991 Oct?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S155	2448529.50	1991 Oct?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S156	2448529.50	1991 Oct?	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1991-S157	2448529.50	1991 Oct	MR-20	-	-	-	-	-	ZUB	GMS91A	ULP1	-	-	250?	-	-
1992-S02	2448621.50	1992	MR-12	?	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1997-S07	2450479.58	1997 Jan 31 0155:08	MR-12	-	AGRE (D75MG)	Flaksus-1 (Fluxus)	-	-	-	GTsP-4	-	-	-	160	-	-
1997-S08	2450484.59	1997 Feb 5 0216:07	MR-12	-	AGRE (D75MG)	Flaksus-2	-	-	-	GTsP-4	-	-	-	160	-	-
2011-S65	2455914.50	2011 Dec 19?	MR-30	-	-	R&D	-	-	-	GTsP-4	-	-	-	150?	-	-
2012-S90	2456078.50	2012 May 31	MR-30	-	-	R&D	-	-	-	GTsP-4	-	-	-	300?	-	-
2014-S18	2456743.43	2014 Mar 26 2225	MN-300	-	MN-300	-	-	-	-	GTsP-4	-	-	-	300?	-	-
2015-S96	2457269.06	2015 Sep 3 1323	MN-300	-	MN-300	-	-	-	-	TIKSI	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S115	2437784.50	1962 May	MR-12	-	D-75M LKI	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1962-S350	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S351	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S352	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S353	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S354	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S355	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S356	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1962-S357	2437937.50	1962 Oct?	MR-12	-	D-75M	0.000	AN	SS	-	-	Nuc test	MRKS	-	-
1964-S05	2438394.50	1964	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1964-S06	2438394.50	1964	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1964-S07	2438394.50	1964	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1964-S08	2438394.50	1964	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1965-S05	2438760.50	1965	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1965-S489	2439007.31	1965 Sep 3 1930	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1965-S490	2439012.68	1965 Sep 9 0415	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1965-S498	2439021.29	1965 Sep 17 1900	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1965-S576	2439060.00	1965 Oct 26 1203	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1966-S76	2439149.50	1966 Jan 24	MR-12	-	D-75M	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1966-S504	2439393.32	1966 Sep 24 1947	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S514	2439398.88	1966 Sep 30 0907	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S520	2439399.88	1966 Oct 1 0907	MR-12	-	-	0.000	AN	SS	-	AN/Bjuro	Aeron	WDCRF	SR9,501	-
1966-S536	2439408.80	1966 Oct 10 0715	MR-12	?	-	0.000	AN	SS	-	-	Ionos/Solar UV/Sola	WDCRF	-	-
1966-S551	2439419.03	1966 Oct 20 1238	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S564	2439425.09	1966 Oct 26 1416	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S586	2439434.14	1966 Nov 4 1516	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S650	2439453.41	1966 Nov 23 2144	MR-12	-	-	0.000	AN	SS	-	AN/Bjuro	Aeron	WDCRF	SR9,501	-
1966-S666	2439461.36	1966 Dec 1 2040	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S670	2439465.86	1966 Dec 6 0839	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S678	2439472.24	1966 Dec 12 1739	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1966-Y59	2439473.81	1966 Dec 14 0730:00	MR-12	-	-	0.000	AN?	SS	-	AN/Pokhunkov	Aeron	SR8-955	WDCRF	-
1966-S690	2439475.34	1966 Dec 15 2012:00	MR-12	-	-	0.000	AN	SS	-	AN/Pokhunkov	Aeron	SR8-955	WDCRF	-
1966-S694	2439480.17	1966 Dec 20 1600	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1966-S695	2439481.02	1966 Dec 21 1230	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1966-S696	2439481.02	1966 Dec 21 1230	MR-12	-	-	0.000	AN	SS	-	-	Solar X	WDCRF	-	-
1967-S94	2439522.46	1967 Jan 31 2305	MR-12	-	-	0.000	AN	SS	-	AN/Bjuro	Aeron	WDCRF	SR9,501	-
1967-S113	2439525.38	1967 Feb 3 2100?	MR-12	?	-	0.000	AN	SS	-	AN/Tarasova	Solar/Aeron	SR9,329	WDCRF	-
1967-S271	2439635.88	1967 May 25 0900:00	MR-12	-	MP 12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1967-S308	2439662.50	1967 Jun 21	MR-12	-	M-175	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1967-S312	2439663.50	1967 Jun 22	MR-12	-	M-175	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1967-S481	2439773.15	1967 Oct 9 1530	MR-12	-	D-75M	0.000	AN/CNES	SS	-	CNRS/Blamont	Aeron	AnnalesGeo25,393	SP-4008	-
1967-S483	2439774.12	1967 Oct 10 1455	MR-12	-	D-75M	0.000	AN/CNES	SS	-	CNRS/Blamont	Aeron	AnnalesGeo25,393	SP-4008	-
1967-S520	2439796.33	1967 Nov 1 1957	MR-12	-	-	0.000	AN	SS	-	IEM/Zhloodko	Aeron/Ionos	WDCRF	SR10,746	-
1967-S600	2439843.88	1967 Dec 19 0900?	MR-12	-	-	0.000	AN	SS	-	AN/Danilov	Aeron/Ionos	SR10,736	-	-
1968-S154	2439913.56	1968 Feb 27 0130	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S157	2439915.11	1968 Feb 28 1440	MR-12	-	-	0.000	AN/CNES	SS	-	CNRS/Blamont	Aeron	AnnalesGeo25,393	WDCRF	-
1968-S160	2439916.22	1968 Feb 29 1715:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Auroral	WDCRF	-	-
1968-S181	2439932.23	1968 Mar 16 1730	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	AnnalesGeo25,393	WDCRF	-
1968-S189	2439934.40	1968 Mar 18 2130	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S190	2439934.43	1968 Mar 18 2215	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S192	2439935.26	1968 Mar 19 1820	MR-12	-	-	0.000	AN	SS	-	-	Aeron	AnnalesGeo25,393	WDCRF	-
1968-S193	2439935.30	1968 Mar 19 1905	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhunkov	Aeron	SR19,173	SR12,657	-
1968-S197	2439936.35	1968 Mar 20 2025	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	AnnalesGeo25,393	WDCRF	-
1968-S198	2439936.38	1968 Mar 20 2109	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S199	2439936.40	1968 Mar 20 2136	MR-12	-	-	0.000	AN	SS	-	SU/Martynkevitch,Bjuro	Aeron	WDCRF	SR10,534	-
1968-S202	2439937.54	1968 Mar 22 0057	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S206	2439939.31	1968 Mar 23 1927	MR-12	-	-	0.000	AN	SS	-	IEM/Zhloodko	Aeron/Ionos	WDCRF	SR10,746	-
1968-S208	2439940.67	1968 Mar 25 0402	MR-12	-	-	0.000	AN	SS	-	IEM/Zhloodko	Aeron/Ionos	WDCRF	SR10,746	-
1968-S209	2439940.72	1968 Mar 25 0510	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos	WDCRF	SR19,173	-
1968-S212	2439941.31	1968 Mar 25 1920	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S214	2439941.44	1968 Mar 25 2240	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S218	2439942.99	1968 Mar 27 1150	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S231	2439945.83	1968 Mar 30 0800	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhounkov	Ionos	SR11,893	SR11,1043	-
1968-S233	2439946.10	1968 Mar 30 1430	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S310	2439985.81	1968 May 9 0730	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	MRKS	-
1968-S311	2439987.54	1968 May 11 0100	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1968-S312	2439988.04	1968 May 11 1300	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1968-S315	2439989.05	1968 May 12 1315	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhunkov	Aeron/Ionos	WDCRF	SR12,657	-
1968-S321	2439993.27	1968 May 16 1833	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S326	2439994.27	1968 May 17 1825	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S330	2439995.25	1968 May 18 1805	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S334	2439998.08	1968 May 21 1400	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhunkov	Aeron/Ionos	WDCRF	SR12,657	-
1968-S335	2439998.34	1968 May 21 2009	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S338	2439998.53	1968 May 22 0050	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhunkov	Aeron/Ionos	WDCRF	SR12,657	-
1968-S352	2440007.06	1968 May 30 1332	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S353	2440007.38	1968 May 30 2100	MR-12	-	-	0.000	AN	SS	-	-	Auroral	WDCRF	-	-
1968-S361	2440014.06	1968 Jun 6 1331	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1968-S362	2440014.25	1968 Jun 6 1800	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Plasma	WDCRF	-	-
1968-S378	2440022.12	1968 Jun 14 1455	MR-12	-	-	0.000	AN	SS	-	-	Aeron/CR	WDCRF	-	-
1968-S384	2440033.69	1968 Jun 26 0430	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S385	2440033.89	1968 Jun 26 0921	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S386	2440035.69	1968 Jun 28 0437	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S390	2440040.50	1968 Jul 3	MR-12	-	-	0.000	AN	SS	-	-	Aeron/CR	WDCRF	-	-
1968-S398	2440054.24	1968 Jul 16 1740	MR-12	-	-	0.000	AN	SS	-	IEM/NIRFI/Andreeva	Aeron	WDCRF	SR11,1043	-
1968-S401	2440057.21	1968 Jul 19 1700	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S422	2440063.23	1968 Jul 25 1730	MR-12	-	-	0.000	AN	SS	-	IEM/NIRFI/Andreeva	Aeron	WDCRF	SR11,1043	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S423	2440063.50	1968 Jul 26 0000	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S427	2440065.23	1968 Jul 27 1726	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S434	2440069.04	1968 Jul 31 1300	MR-12	-	-	0.000	AN	SS	-	SU/Antonova	CR/Plasma	WDCRF	SR10,757	-
1968-S435	2440069.29	1968 Jul 31 1854	MR-12	-	-	0.000	AN	SS	-	SU/Antonova	CR/Plasma	WDCRF	SR10,757	-
1968-S437	2440069.50	1968 Aug 1 0000	MR-12	-	-	0.000	AN	SS	-	SU/Antonova	Aeron/Plasma	WDCRF	SR10,757	-
1968-S438	2440069.58	1968 Aug 1 0200	MR-12	-	-	0.000	AN	SS	-	SU/Antonova	Plasma/Fields	WDCRF	SR10,757	-
1968-S494	2440113.21	1968 Sep 13 1658	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S501	2440120.19	1968 Sep 20 1630	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S510	2440125.42	1968 Sep 25 2202	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S519	2440131.60	1968 Oct 2 0217	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S524	2440137.60	1968 Oct 8 0226	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S528	2440138.65	1968 Oct 9 0332	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S539	2440145.83	1968 Oct 16 0802	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S547	2440151.84	1968 Oct 22 0803	MR-12	-	-	0.000	AN	SS	-	SU/Danilov	Aeron	WDCRF	SR10,742	KI8,473
1968-S548	2440151.92	1968 Oct 22 1002	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S553	2440154.92	1968 Oct 25 1004	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1968-S555	2440156.92	1968 Oct 27 1003:00	MR-12	-	MP-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1968-S558	2440159.84	1968 Oct 30 0806	MR-12	-	-	0.000	AN	SS	-	AN/Martynkevich	Aeron	WDCRF	SR12,691	-
1969-S67	2440236.34	1969 Jan 14 2014	MR-12	-	-	0.000	AN	SS	-	AN/Martynkevich	Aeron	WDCRF	SR12,691	-
1969-S77	2440242.84	1969 Jan 21 0803	MR-12	-	-	0.000	AN	SS	-	IEM/NIRFI/Andreeva	Ionos	WDCRF	SR11,1043	-
1969-S81	2440245.00	1969 Jan 23 1202	MR-12	-	-	0.000	AN	SS	-	IEM/NIRFI/Andreeva	Ionos	WDCRF	SR11,1043	-
1969-S160	2440281.88	1969 Mar 1 0900	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S172	2440288.88	1969 Mar 8 0900	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S173	2440289.15	1969 Mar 8 1535	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S175	2440290.19	1969 Mar 9 1635	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S177	2440291.17	1969 Mar 10 1610	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S178	2440291.46	1969 Mar 10 2300	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S184	2440294.20	1969 Mar 13 1645	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S185	2440294.26	1969 Mar 13 1817	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S187	2440294.43	1969 Mar 13 2223	MR-12	-	-	0.000	AN	SS	-	CNRS/Blamont	Aeron	WDCRF	SR10,519	-
1969-S191	2440295.43	1969 Mar 14 2220	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Plasma	WDCRF	-	-
1969-S202	2440298.27	1969 Mar 17 1835	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Plasma	WDCRF	-	-
1969-S205	2440299.88	1969 Mar 19 0900	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S206	2440300.40	1969 Mar 19 2130	MR-12	-	-	0.000	AN	SS	-	-	Ionos/Plasma	WDCRF	-	-
1969-S209	2440301.24	1969 Mar 20 1750	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S210	2440301.27	1969 Mar 20 1830	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Aeron/Plasma	WDCRF	SR19,173	-
1969-S211	2440301.35	1969 Mar 20 2030	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Plasma	WDCRF	-	-
1969-S213	2440302.34	1969 Mar 21 2006	MR-12	-	-	0.000	AN	SS	-	IEM/Zholod'ko	Ionos	WDCRF	SR11,1052	-
1969-S215	2440302.62	1969 Mar 22 0250	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1969-S217	2440304.92	1969 Mar 24 1001	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S221	2440307.08	1969 Mar 26 1402	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1969-S224	2440308.07	1969 Mar 27 1335	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S225	2440308.15	1969 Mar 27 1530	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S238	2440310.04	1969 Mar 29 1300	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhounkov	Aeron/Ionos	SR11,893	WDCRF	-
1969-S258	2440320.90	1969 Apr 9 0933	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	SR11,915	-
1969-S283	2440330.04	1969 Apr 18 1300	MR-12	-	-	0.000	AN	SS	-	IEM/Zholod'ko	Ionos	WDCRF	SR11,1052	-
1969-S284	2440330.14	1969 Apr 18 1520	MR-12	-	-	0.000	AN	SS	-	UNK?/Antonova	Solar EUV/Plasma	WDCRF	SR11,1113	-
1969-S285	2440331.19	1969 Apr 19 1632	MR-12	-	-	0.000	AN	SS	-	UNK?/Antonova	Solar EUV/Plasma	WDCRF	SR11,1113	-
1969-S286	2440332.04	1969 Apr 20 1304	MR-12	-	-	0.000	AN	SS	-	IEM/Zholod'ko	Ionos	WDCRF	SR11,1052	-
1969-S287	2440332.14	1969 Apr 20 1524	MR-12	-	-	0.000	AN	SS	-	UNK?/Antonova	Solar EUV/Plasma	WDCRF	SR11,1113	-
1969-S288	2440333.05	1969 Apr 21 1306	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhounkov	Aeron/Plasma	SR11,893	WDCRF	-
1969-S289	2440333.14	1969 Apr 21 1526	MR-12	-	-	0.000	AN	SS	-	UNK?/Antonova	Solar EUV/Plasma	WDCRF	SR11,1113	-
1969-S295	2440335.05	1969 Apr 23 1310	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S296	2440335.15	1969 Apr 23 1530	MR-12	-	-	0.000	AN	SS	-	UNK?/Antonova	Solar EUV/Plasma	WDCRF	SR11,1113	-
1969-S361	2440384.25	1969 Jun 11 1805	MR-12	-	-	0.000	AN	SS	-	UNK?/Chizhov	Aeron/Plasma	WDCRF	SR11,888	-
1969-S373	2440392.64	1969 Jun 20 0315	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S379	2440397.29	1969 Jun 24 1902	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S388	2440404.26	1969 Jul 1 1815	MR-12	-	-	0.000	AN	SS	-	GMS/Balabanova	Aeron	WDCRF	SR15,247	-
1969-S391	2440405.65	1969 Jul 3 0329	MR-12	-	-	0.000	AN	SS	-	UNK?/Chizhov	Aeron	WDCRF	SR11,888	-
1969-S395	2440411.26	1969 Jul 8 1820	MR-12	-	-	0.000	AN	SS	-	GMS/Balabanova	Aeron	WDCRF	SR15,247	-
1969-S397	2440412.25	1969 Jul 9 1755	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S400	2440412.84	1969 Jul 10 0807	MR-12	-	-	0.000	AN	SS	-	IEM/NIRFI/Andreeva	Ionos	WDCRF	SR11,1043	-
1969-S404	2440414.25	1969 Jul 11 1755	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S416	2440427.50	1969 Jul 24 2355	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S419	2440427.55	1969 Jul 25 0119:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S420	2440427.56	1969 Jul 25 0130:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Martynkevich	Aeron	WDCRF	SR12,691	-
1969-S421	2440427.58	1969 Jul 25 0200:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	SR11,863	-
1969-Y199	2440427.58	1969 Jul 25 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S423	2440428.42	1969 Jul 25 2203:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S424	2440428.49	1969 Jul 25 2350:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S425	2440430.41	1969 Jul 27 2147:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S426	2440430.44	1969 Jul 27 2237:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S427	2440430.48	1969 Jul 27 2327:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S428	2440430.51	1969 Jul 28 0017:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y201	2440432.58	1969 Jul 30 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S433	2440433.34	1969 Jul 30 2007:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S436	2440436.64	1969 Aug 03 0325:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S437	2440436.68	1969 Aug 03 0415:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S438	2440436.71	1969 Aug 03 0505:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S439	2440436.74	1969 Aug 03 0551:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S440	2440436.79	1969 Aug 03 0700:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y204	2440439.58	1969 Aug 06 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y207	2440446.58	1969 Aug 13 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y208	2440453.58	1969 Aug 20 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-Y210	2440460.58	1969 Aug 27 0200:00	MR-12	-	M-100?	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1969-S524	2440503.50	1969 Oct 9?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MKRS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S538	2440505.96	1969 Oct 11 1105	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S543	2440508.85	1969 Oct 14 0822	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S553	2440512.42	1969 Oct 17 2209	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S555	2440512.96	1969 Oct 18 1107	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S556	2440513.24	1969 Oct 18 1747	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S566	2440516.02	1969 Oct 21 1232	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S569	2440516.85	1969 Oct 22 0831	MR-12	-	-	0.000	AN	SS	-	-	Aeron	WDCRF	-	-
1969-S574	2440518.69	1969 Oct 24 0433:00	MR-12	-	-	0.000	AN	SS	-	GMS/Tulinov	Aeron/Plasma/Solar UV,X	WDCRF	SR12,1305	-
1969-S616	2440530.84	1969 Nov 5 0811	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S617	2440530.97	1969 Nov 5 1112	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S625	2440535.20	1969 Nov 9 1647	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S657	2440565.83	1969 Dec 10 0800	MR-12	-	-	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1969-S660	2440566.37	1969 Dec 10 2059	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S661	2440566.43	1969 Dec 10 2213	MR-12	-	-	0.000	AN	SS	-	-	Ionos	WDCRF	-	-
1969-S678	2440571.83	1969 Dec 16 0800:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1969-S683	2440573.51	1969 Dec 18 0015:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1969-S684	2440573.75	1969 Dec 18 0600:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1969-S688	2440574.85	1969 Dec 19 0830:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1969-S689	2440574.97	1969 Dec 19 1115:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1969-S693	2440579.80	1969 Dec 24 0705:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Tulinov	Ionos/Solar UV,X	SR12,1305	WDCRF	-
1970-S115	2440629.63	1970 Feb 12 0314:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S116	2440630.44	1970 Feb 12 2240:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	GeomagAeron15,239	-
1970-S135	2440641.06	1970 Feb 23 1320:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR14,112	-
1970-S147	2440642.55	1970 Feb 25 0105:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S160	2440644.06	1970 Feb 26 1330:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR14,112	-
1970-S161	2440644.09	1970 Feb 26 1415:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos	SR19,173	GeomagAeron15,239	-
1970-S178	2440646.08	1970 Feb 28 1351:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S179	2440646.11	1970 Feb 28 1436:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos	SR19,173	GeomagAeron15,239	-
1970-S170	2440645.50	1970 Mar?	MR-25	-	M-250	0.000	AN	SS	-	AN/	Test	MRKS	-	-
1970-S171	2440645.50	1970 Mar?	MR-25	-	M-250	0.000	AN	SS	-	AN/	Test	MRKS	-	-
1970-S181	2440647.52	1970 Mar 02 0025:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S182	2440647.57	1970 Mar 02 0140:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	GeomagAeron15,239	-
1970-S185	2440648.11	1970 Mar 02 1437:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S194	2440651.49	1970 Mar 05 2350:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S200	2440652.48	1970 Mar 06 2335:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S202	2440653.12	1970 Mar 07 1450:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S305	2440692.80	1970 Apr 16 0706:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S306	2440692.81	1970 Apr 16 0730:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S309	2440692.96	1970 Apr 16 1102:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S320	2440697.75	1970 Apr 21 0601:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S322	2440698.50	1970 Apr 22	MR-12	?	-	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S325	2440699.79	1970 Apr 23 0700:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S326	2440699.81	1970 Apr 23 0732:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S327	2440699.96	1970 Apr 23 1101:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S330	2440700.81	1970 Apr 24 0730:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S333	2440703.05	1970 Apr 26 1305:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S407	2440764.26	1970 Jun 26 1820:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S413	2440769.21	1970 Jul 01 1702:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron/Ionos	WDCRF	SR12,1321	-
1970-S415	2440771.16	1970 Jul 03 1547:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1970-S417	2440774.20	1970 Jul 06 1644:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Ionos	WDCRF	SR12,1321	-
1970-S418	2440774.44	1970 Jul 06 2240:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	SR12,1321	WDCRF	-
1970-S419	2440774.49	1970 Jul 06 2343:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR13,191	-
1970-S420	2440774.58	1970 Jul 07 0148:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S422	2440776.49	1970 Jul 08 2348:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S424	2440777.24	1970 Jul 09 1752:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S431	2440781.79	1970 Jul 14 0704:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S439	2440791.02	1970 Jul 23 1225:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S442	2440792.19	1970 Jul 24 1640:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1970-S444	2440793.09	1970 Jul 25 1403:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S445	2440794.04	1970 Jul 26 1301:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S446	2440794.22	1970 Jul 26 1720:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S447	2440794.33	1970 Jul 26 1949:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S454	2440797.85	1970 Jul 30 0821:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S456	2440798.10	1970 Jul 30 1426:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S464	2440802.69	1970 Aug 04 0431:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S466	2440803.22	1970 Aug 04 1718:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S469	2440803.85	1970 Aug 05 0820:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S470	2440804.19	1970 Aug 05 1630:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1970-S478	2440808.76	1970 Aug 10 0612:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S479	2440809.19	1970 Aug 10 1637:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S571	2440880.05	1970 Oct 20 1305:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S573	2440881.06	1970 Oct 21 1325:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1970-S574	2440881.10	1970 Oct 21 1430:00	MR-12	-	-	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1970-S575	2440881.13	1970 Oct 21 1503:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Plasma	WDCRF	-	-
1970-S627	2440918.34	1970 Nov 27 2015:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zholod'ko	Aeron	WDCRF	SR14,277	-
1970-S650	2440936.88	1970 Dec 16 0903:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S654	2440938.73	1970 Dec 18 0530:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Konkov	Ionos/Aeron	WDCRF	SR12,685	-
1970-S658	2440942.92	1970 Dec 22 1000:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S659	2440943.27	1970 Dec 22 1825:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Martynkevich,Byuro	Aeron	WDCRF	SR13,261	-
1970-S660	2440943.48	1970 Dec 22 2330:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1970-S662	2440949.08	1970 Dec 28 1400:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Martynkevich,Byuro	Aeron	WDCRF	SR13,261	-
1970-S663	2440950.34	1970 Dec 29 2008:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S83	2440975.34	1971 Jan 23 2008:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S142	2441012.94	1971 Mar 02 1033:00	MR-12	-	MR-12	0.000	AN	SU	-	AN/Danilov	Aeron/Ionos	WDCRF	SR13,493	-
1971-S161	2441024.18	1971 Mar 13 1615:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S162	2441024.45	1971 Mar 13 2255:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR14.111	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S163	2441025.18	1971 Mar 14 1625:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Klyueva	Ionos	WDCRF	SR13,535	-
1971-S168	2441026.26	1971 Mar 15 1817:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Martynkevich,Byuro	Aeron	WDCRF	SR13,261	-
1971-S174	2441028.20	1971 Mar 17 1655:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR14,111	-
1971-S176	2441029.22	1971 Mar 18 1710:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron	WDCRF	SR14,111	-
1971-S207	2441037.13	1971 Mar 26 1506:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S210	2441039.32	1971 Mar 28 1946:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Klyueva	Ionos	SR19,173	SR13,535	-
1971-S211	2441039.86	1971 Mar 29 0845:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Klyueva	Ionos	WDCRF	SR13,535	-
1971-S212	2441040.34	1971 Mar 29 2010:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S223	2441043.44	1971 Apr 1 2240:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Klyueva	Ionos	WDCRF	SR13,535	-
1971-S243	2441064.04	1971 Apr 22 1300:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S244	2441064.09	1971 Apr 22 1415:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S425	2441195.91	1971 Sep 1 0945	MR-12	-	-	0.000	AN	SS	-	-	Ionos	MRKS	-	-
1971-S426	2441196.03	1971 Sep 1 1245	MR-12	-	-	0.000	AN	SS	-	-	Ionos	MRKS	-	-
1971-S444	2441209.30	1971 Sep 14 1910:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S445	2441209.44	1971 Sep 14 2240:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S446	2441210.21	1971 Sep 15 1700:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S447	2441210.30	1971 Sep 15 1918:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S470	2441218.91	1971 Sep 24 0945:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Butko	Ionos	WDCRF	SR14,117	-
1971-S471	2441218.97	1971 Sep 24 1115:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S472	2441219.03	1971 Sep 24 1245:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S475	2441219.62	1971 Sep 25 0253:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1971-S476	2441220.05	1971 Sep 25 1317:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S479	2441222.05	1971 Sep 27 1317:00	MR-12	-	-	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S485	2441225.91	1971 Oct 01 0945:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Danilov	Ionos	WDCRF	SR13,493	-
1971-S486	2441225.97	1971 Oct 01 1113:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S487	2441226.03	1971 Oct 01 1243:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S488	2441226.05	1971 Oct 01 1317:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S490	2441226.63	1971 Oct 02 0306:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S498	2441230.91	1971 Oct 06 0954:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S501	2441231.02	1971 Oct 06 1233:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Ionos	MRKS	WDCRF	-
1971-S504	2441231.09	1971 Oct 06 1408:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S506	2441231.65	1971 Oct 07 0336:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S507	2441231.90	1971 Oct 07 0930:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Danilov	Ionos	MRKS	SR13,493	-
1971-S509	2441231.96	1971 Oct 07 1101:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S510	2441231.96	1971 Oct 07 1101:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S511	2441232.05	1971 Oct 07 1306:00	MR-12	-	-	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1971-S513	2441232.96	1971 Oct 08 1100:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Martynkevich,Byuro	Aeron	WDCRF	SR13,261	-
1971-S514	2441233.02	1971 Oct 08 1230:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S515	2441233.09	1971 Oct 08 1405:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S518	2441233.96	1971 Oct 09 1100:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S519	2441234.02	1971 Oct 09 1225:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Ionos	MRKS	WDCRF	-
1971-S626	2441240.31	1971 Oct 15 1928	MR-12	-	_	0.000	AN	SS	-	GMS/Andreeva	Aeron	SR13,191	-	-
1971-S534	2441244.67	1971 Oct 20 0406:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S547	2441258.92	1971 Nov 03 1010:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S551	2441262.89	1971 Nov 07 0918:00	MR-12	-	M-180	0.000	AN	SU	-	-	Aeron	WDCRF	MRKS	-
1971-S571	2441280.03	1971 Nov 24 1243:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Test	WDCRF	-	-
1971-S544	2441255.50	1971 Nov?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S576	2441287.03	1971 Dec 01 1250:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Test	WDCRF	-	-
1971-S590	2441292.06	1971 Dec 06 1330:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S592	2441292.15	1971 Dec 06 1530:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S593	2441292.19	1971 Dec 06 1630:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S604	2441297.19	1971 Dec 11 1630:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S606	2441300.15	1971 Dec 14 1541:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Test	WDCRF	AASH32-340	-
1971-S611	2441301.75	1971 Dec 16 0559:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	AASH32-340	-
1971-S616	2441311.67	1971 Dec 26 0400:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S617	2441312.02	1971 Dec 26 1230:00	MR-12	-	MR-12 1054LT	0.000	AN	SS	-	AN/Danilov	Aeron	WDCRF	SR13,493	-
1971-S618	2441312.10	1971 Dec 26 1430:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S619	2441312.24	1971 Dec 26 1746:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S620	2441312.58	1971 Dec 27 0200:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1971-S621	2441317.33	1971 Dec 31 1949:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S622	2441317.37	1971 Dec 31 2049:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S623	2441317.41	1971 Dec 31 2157:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1971-S624	2441317.46	1971 Dec 31 2300:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S30	2441317.80	1972 Jan 01 0705:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S01	2441316.50	1972 Jan?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S31	2441317.83	1972 Jan 01 0802:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S33	2441321.99	1972 Jan 05 1141:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1972-S73	2441358.64	1972 Feb 11 0320:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1972-S74	2441359.00	1972 Feb 11 1200:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1972-S83	2441365.61	1972 Feb 18 0233:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zholod'ko	Aeron/Ionos/Plasma	WDCRF	SR14,277	-
1972-S87	2441369.04	1972 Feb 21 1255:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S88	2441369.07	1972 Feb 21 1335:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zholod'ko	Aeron/Plasma	WDCRF	SR14,277	-
1972-S94	2441378.55	1972 Mar 2 0117:00	MR-12	?	-	0.000	AN	SU	-	-	Plasma	WDCRF	-	-
1972-S449	2441380.50	1972 Mar 4 0003	MR-12	-	MR-12	0.000	AN	SS	-	TSAO/Tulinov	Aeron/Plasma	SR14,343	-	-
1972-S97	2441380.99	1972 Mar 4 1152:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1972-S98	2441381.06	1972 Mar 4 1322:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zhuchenko	Aeron/Ionos/CR	WDCRF	SR15,233	-
1972-S99	2441381.28	1972 Mar 4 1848	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zhuchenko	Aeron/Ionos/CR	SR19,173	SR15,233	-
1972-S451	2441381.49	1972 Mar 4 2352	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Aeron	SR19,173	-	-
1972-S106	2441385.42	1972 Mar 8 2210:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zhuchenko	Aeron/CR	WDCRF	SR15,233	-
1972-S123	2441394.21	1972 Mar 17 1656:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1972-S124	2441394.21	1972 Mar 17 1704:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Chasovitin	Aeron/Plasma	SR19,173	WDCRF	-
1972-S125	2441394.29	1972 Mar 17 1901:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1972-S126	2441394.34	1972 Mar 17 2003:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1972-S129	2441396.91	1972 Mar 20 0945:00	MR-12	-	M-180 (Mar 21?)	0.000	AN	SU	-	-	Aeron	WDCRF	MRKS	-
1972-S150	2441412.85	1972 Apr 05 0831:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Zhuchenko	CR	SR19,173	SR15,233	-
1972-S450	2441422.86	1972 Apr 15 0838	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Aeron	SR19,173	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S364	2441616.06	1972 Oct 25 1322	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S368	2441616.96	1972 Oct 26 1100	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S370	2441618.46	1972 Oct 27 2302	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S373	2441621.42	1972 Oct 30 2200?	MR-12	-	-	0.000	AN	SS	-	GMS/Balabanova	Aeron	SR15,247	WDC	-
1972-S374	2441621.94	1972 Oct 31 1030	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S379	2441622.61	1972 Nov 1 0240	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S402	2441644.62	1972 Nov 23 0300	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S410	2441652.71	1972 Dec 1 0504	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S411	2441652.88	1972 Dec 1 0902	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1972-S412	2441653.03	1972 Dec 1 1239	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Ionos	WDC	SR14,271	-
1972-S445	2441673.71	1972 Dec 22 0500	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	WDC	-	-
1973-S176	2441832.33	1973 May 29 2000	MR-12	-	-	0.000	AN	SS	-	IZM/IKI/CESR/Doukoukin	Active plasma	SR15,491	KI18,290	-
1973-W775	2441845.58	1973 Jun 12 0154:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Butko	Aeron	WDCRF	SR15,263	-
1973-S460	2441845.83	1973 Jun 12 0801	MR-12	-	GMS S-0173	0.000	AN	SS	-	GMS/Semenov	Ionos	SR16,355	KI13,517	-
1973-S454	2441845.99	1973 Jun 12 1150	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Butko	Aeron	SR15,199	SR16,327	-
1973-S455	2441846.18	1973 Jun 12 1624	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Butko	Aeron	SR16.509	SR16,327	-
1973-S162	2441846.30	1973 Jun 12 1917	MR-12	-	GMS S-0273	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	SR16,355	SR15,227	-
1973-S456	2441846.40	1973 Jun 12 2133	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	SR16.509	SR16,327	-
1973-S177	2441847.09	1973 Jun 13 1407	MR-12	-	GMS S-0373	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	SR16,355	SR15,227	-
1973-S458	2441847.63	1973 Jun 14 0312	MR-12	-	GMS S-0473	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	SR16,355	SR15,227	-
1973-S459	2441847.83	1973 Jun 14 0759	MR-12	-	GMS S-0573	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	SR16,355	SR15,227	-
1973-S457	2441848.03	1973 Jun 14 1240	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Mikhnevich	Aeron	KI13,517	SR16,327	-
1973-S485	2441852.50	1973 Jun 19	MR-12	-	-	0.000	AN	SS	-	TSAO/Brezgin	Aeron	MetIssled23,30	-	-
1973-S212	2441862.50	1973 Jun 29	MR-12	?	-	0.000	IZM	SS	-	-	Active plasma	GeomagAeron15,776	KI15,129	-
1973-S252	2441862.93	1973 Jun 29 1019	MR-12	-	8	0.000	AN	SS	-	GMS/Danilov	Ionos	SR15,227	MRKS	-
1973-S219	2441863.93	1973 Jun 30 1014:38	MR-12	-	-	0.000	AN	SS	-	GMS/Danilov	Eclipse	SR15,393	SP-4018	-
1973-S461	2441864.05	1973 Jun 30 1305	MR-12	-	-	0.000	AN	SS	-	GMS/Pokhunov	Aeron	SR16,351	-	-
1973-S224	2441864.93	1973 Jul 1 1015:00	MR-12	-	B-37	0.000	AN	SS	-	GMS/Danilov	Ionos	WDCRF	SR15,393	-
1973-S232	2441876.12	1973 Jul 12 1449:00	MR-12	-	B-38	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1973-S242	2441883.39	1973 Jul 19 2121:00	MR-12	-	B-39	0.000	AN	SS	-	GMS/Mikhnevich	Aeron/Ionos	KI13,517	SR15,227	-
1973-S245	2441883.78	1973 Jul 20 0648:00	MR-12	-	B-40	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1973-S253	2441863.50	1973 Jul?	MR-12	-	9	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S254	2441863.50	1973 Jul?	MR-12	-	10	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S255	2441863.50	1973 Jul?	MR-12	-	11	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S256	2441894.50	1973 Aug?	MR-12	-	12	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S257	2441894.50	1973 Aug?	MR-12	-	13	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S258	2441894.50	1973 Aug?	MR-12	-	14	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S259	2441894.50	1973 Aug	MR-12	-	15	0.000	AN	SS	-	-	Aeron?	MRKS	-	-
1973-S306	2441940.85	1973 Sep 15 0823:00	MR-12	-	X-141	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos	WDCRF	SR19,173	-
1973-S320	2441953.21	1973 Sep 27 1701:00	MR-12	-	X-142	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos	WDCRF	SR19,173	-
1973-S350	2441973.25	1973 Oct 17 1807:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1973-S364	2441979.02	1973 Oct 23 1234:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1973-S368	2441985.84	1973 Oct 30 0808:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Plasma	WDCRF	SR19,173	-
1973-S410	2442015.43	1973 Nov 28 2213:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	MRKS	-
1973-S430	2442023.98	1973 Dec 07 1132:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1973-S432	2442024.00	1973 Dec 07 1156:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1973-S447	2442041.84	1973 Dec 25 0808:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S99	2442092.15	1974 Feb 13 1536:00	MR-12	-	D-75MG	0.000	AN/CNES	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S102	2442094.01	1974 Feb 15 1215:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S117	2442103.09	1974 Feb 24 1410:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S125	2442111.94	1974 Mar 05 1035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1974-S131	2442120.33	1974 Mar 13 1955:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1974-S132	2442121.02	1974 Mar 14 1235:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1974-S133	2442121.22	1974 Mar 14 1715:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S134	2442121.32	1974 Mar 14 1935:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S135	2442122.33	1974 Mar 15 2000:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S140	2442124.34	1974 Mar 17 2015:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	SR19,173	WDCRF	-
1974-S141	2442126.23	1974 Mar 19 1730:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1974-S145	2442128.20	1974 Mar 21 1643:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Chasovitin	Aeron/Ionos	SR16,445	WDCRF	-
1974-S154	2442135.68	1974 Mar 29 0424:00	MR-12	-	IPOCAMP	0.000	AN	SS	-	ORL/ESTEC/GMS/Beghin	Aeron/Ionos	WDCRF	SR16,453	-
1974-S163	2442141.10	1974 Apr 03 1422:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Tulinov	Aeron/Ionos/CR/Plas	SR16,509	SR19,173	-
1974-S166	2442142.07	1974 Apr 04 1343:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Chasovitin	Aeron/Ionos/CR/Plas	SR16,445	SR19,173	-
1974-S227	2442218.84	1974 Jun 20 0815:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S228	2442219.34	1974 Jun 20 2003:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S230	2442220.00	1974 Jun 21 1206:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S307	2442310.10	1974 Sep 19 1426:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Solar UV/Solar EUV	WDCRF	-	-
1974-S308	2442310.16	1974 Sep 19 1547:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Ivanova	Aeron/Ionos/CR/Plas	WDCRF	SR17,131	-
1974-S309	2442310.23	1974 Sep 19 1731:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S310	2442310.29	1974 Sep 19 1900:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S312	2442310.67	1974 Sep 20 0400:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1974-S313	2442310.75	1974 Sep 20 0600:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Chasovitin	Aeron/Ionos/CR/Plas	WDCRF	SR16,365	-
1974-S314	2442310.80	1974 Sep 20 0718:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S315	2442310.92	1974 Sep 20 1000:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Chasovitin	Aeron/Ionos/CR/Plas	WDCRF	SR16,365	-
1974-S316	2442310.96	1974 Sep 20 1100:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1974-S318	2442311.06	1974 Sep 20 1330:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S319	2442311.32	1974 Sep 20 1936:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S320	2442311.43	1974 Sep 20 2220:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S321	2442311.44	1974 Sep 20 2236:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S323	2442311.63	1974 Sep 21 0310:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Solar UV/Solar EUV	WDCRF	-	-
1974-S324	2442311.75	1974 Sep 21 0600:00	MR-12	-	MR-12	0.000	AN	SS	-	TSAO/Brezgin	Aeron/Ionos/CR/Plas	WDCRF	MetIssled23,30	-
1974-S353	2442336.12	1974 Oct 15 1453:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S354	2442336.35	1974 Oct 15 2030:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S355	2442336.59	1974 Oct 16 0214:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1974-S376	2442365.91	1974 Nov 14 0946:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S377	2442367.71	1974 Nov 16 0506:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1974-S378	2442367.89	1974 Nov 16 0921:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S382	2442371.91	1974 Nov 20 0946:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1974-S424	2442402.89	1974 Dec 21 0926:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1974-S426	2442406.26	1974 Dec 24 1813:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/CR/Plasma	WDCRF	SR19,173	-
1975-S140	2442532.50	1975 May	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S141	2442532.50	1975 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S171	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S172	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S173	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S174	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S175	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S176	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S177	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S178	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S179	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S180	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S181	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S182	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S183	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S184	2442563.50	1975 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S217	2442593.50	1975 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S218	2442593.50	1975 Jul	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S266	2442660.19	1975 Sep 04 1635:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Plasma,Ba release	WDCRF	PlanSpSci31,849	-
1975-S273	2442667.36	1975 Sep 11 2040:00	MR-12	-	MR-12	0.000	AN	SS	-	IZM/Dzyubenko,Ivchenko	Plasma	KI18,290	WDCRF	-
1975-S292	2442687.15	1975 Oct 01 1535:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1975-S294	2442687.88	1975 Oct 02 0900:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1975-S295	2442688.15	1975 Oct 02 1535:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1975-S296	2442688.38	1975 Oct 02 2105:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1975-S303	2442701.59	1975 Oct 16 0210:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1975-S309	2442715.10	1975 Oct 29 1428:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1975-S313	2442716.97	1975 Oct 31 1117:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1975-S311	2442716.50	1975 Nov	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S312	2442716.50	1975 Nov?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S331	2442746.50	1975 Dec?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S332	2442746.50	1975 Dec?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S333	2442746.50	1975 Dec?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1975-S334	2442746.50	1975 Dec?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S02	2442777.50	1976 Jan?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S03	2442777.50	1976 Jan?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S04	2442777.50	1976 Jan?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S05	2442777.50	1976 Jan?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S86	2442808.50	1976 Feb?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S87	2442808.50	1976 Feb	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S113	2442836.54	1976 Feb 28 0055:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S116	2442837.10	1976 Feb 28 1422:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/CR/Plasma	WDCRF	SR19,173	-
1976-S117	2442837.38	1976 Feb 28 2101:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Vnuchkn'	Auroral	KI16,310	WDCRF	-
1976-S118	2442837.55	1976 Feb 29 0115:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S121	2442840.51	1976 Mar 03 0010:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	WDCRF	SR19,173	-
1976-S124	2442841.50	1976 Mar 04 0001:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	SR19,173	WDCRF	-
1976-S129	2442843.49	1976 Mar 05 2345:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	SR19,173	WDCRF	-
1976-S127	2442844.28	1976 Mar 06 1848:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Auroral	WDCRF	-	-
1976-S130	2442844.48	1976 Mar 06 2330:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/CR/Plas	SR19,173	WDCRF	-
1976-S131	2442846.46	1976 Mar 08 2256:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S136	2442855.36	1976 Mar 17 2035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S137	2442855.52	1976 Mar 18 0028:00	MR-12	-	MR-12	0.000	AN	SU	-	-	CR/Plasma/Fields	WDCRF	-	-
1976-S138	2442855.84	1976 Mar 18 0808:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S251	2443009.21	1976 Aug 18 1659:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Andreeva	Aeron/Ionos/CR/Plas	WDCRF	SR20,69	-
1976-S252	2443009.36	1976 Aug 18 2040:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S258	2443010.20	1976 Aug 19 1652:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S259	2443010.36	1976 Aug 19 2035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S254	2443009.53	1976 Aug 19 0043:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S255	2443009.72	1976 Aug 19 0515:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1976-S256	2443009.88	1976 Aug 19 0900:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1976-S257	2443009.95	1976 Aug 19 1045:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1976-S260	2443010.53	1976 Aug 20 0042:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1976-S261	2443010.59	1976 Aug 20 0215:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S262	2443010.72	1976 Aug 20 0515:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S263	2443010.88	1976 Aug 20 0900:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S264	2443011.07	1976 Aug 20 1345:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S267	2443011.53	1976 Aug 21 0047:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/CR/Plasma	WDCRF	-	-
1976-S234	2442990.50	1976 Aug	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S235	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S236	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S237	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S238	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S239	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S240	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S241	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S242	2442990.50	1976 Aug?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S275	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S276	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S277	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S278	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S279	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S280	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S281	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S282	2443021.50	1976 Sep?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-S299	2443051.50	1976 Oct?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S300	2443051.50	1976 Oct?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S301	2443051.50	1976 Oct?	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S316	2443082.50	1976 Nov?	MR-12	-	MR-12 IOR?	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1976-S343	2443119.97	1976 Dec 07 1120:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Solar UV/Solar EUV	WDCRF	-	-
1976-S344	2443120.97	1976 Dec 08 1120:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Solar UV/Solar EUV	WDCRF	-	-
1977-S50	2443171.32	1977 Jan 27 1935:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Auroral/Aeron/Ionos	WDCRF	-	-
1977-S66	2443184.23	1977 Feb 09 1729:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Auroral/Aeron/Ionos	WDCRF	-	-
1977-S68	2443184.64	1977 Feb 10 0315:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S74	2443188.01	1977 Feb 13 1219:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	MRKS	SR19,173	-
1977-S88	2443195.57	1977 Feb 21 0137:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Fields	WDCRF	-	-
1977-S92	2443198.56	1977 Feb 24 0130:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Fields	WDCRF	-	-
1977-S100	2443209.48	1977 Mar 06 2331:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1977-S102	2443210.16	1977 Mar 07 1553:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron	MRKS	WDCRF	-
1977-S108	2443216.40	1977 Mar 13 2131:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S112	2443219.26	1977 Mar 16 1810:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Fields	WDCRF	-	-
1977-S113	2443219.34	1977 Mar 16 2005:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1977-S116	2443219.67	1977 Mar 17 0359:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Fields	WDCRF	-	-
1977-S119	2443221.38	1977 Mar 18 2105:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Fields	WDCRF	-	-
1977-S118	2443221.34	1977 Mar 18 2010:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S126	2443227.05	1977 Mar 24 1310:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Plasma/Fields	WDCRF	-	-
1977-S132	2443231.30	1977 Mar 28 1906:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S133	2443231.44	1977 Mar 28 2231:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S134	2443231.50	1977 Mar 29 0006:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1977-S135	2443231.59	1977 Mar 29 0216:00	MR-12	-	MR-12	0.000	AN	SS	-	GMS/Danilov	Aeron/Ionos/Plasma	WDCRF	SR19,173	-
1977-S136	2443231.65	1977 Mar 29 0337:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1977-S142	2443239.58	1977 Apr 06 0155:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/CR/Plasma/Fie	WDCRF	-	-
1977-S143	2443239.63	1977 Apr 06 0301:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1977-S152	2443263.50	1977 May	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S153	2443263.50	1977 May?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S175	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S176	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S177	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S178	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S179	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S180	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S181	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S182	2443294.50	1977 Jun?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S209	2443324.50	1977 Jul?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S210	2443324.50	1977 Jul	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1977-S247	2443400.50	1977 Sep 14	MR-12	-	-	0.000	AN	SS	-	-	Test	MRKS	-	-
1977-S257	2443420.60	1977 Oct 04 0220:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1977-S268	2443445.50	1977 Oct 29	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	JCM	-	-
1977-S269	2443446.50	1977 Oct 30	MR-12	-	-	0.000	AN	SS	-	-	Aeron?	JCM	-	-
1977-S457	2443485.36	1977 Dec 7 2040	MR-12	-	-	0.000	AN	SS	-	-	Tech	PPK10	-	-
1978-S45	2443520.50	1978 Jan 11 2355	MR-12	-	MR-12	0.000	AN	SS	-	-	Active plasma	ASR1,2	-	-
1978-S78	2443567.50	1978 Mar	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	MRKS	-	-
1978-S103	2443605.95	1978 Apr 07 1045:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S115	2443617.94	1978 Apr 19 1035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S116	2443618.15	1978 Apr 19 1537:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S119	2443619.83	1978 Apr 21 0752:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S120	2443620.24	1978 Apr 21 1740:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S121	2443620.27	1978 Apr 21 1830:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S118	2443619.77	1978 Apr 21 0626:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S117	2443619.73	1978 Apr 21 0529:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S127	2443632.76	1978 May 04 0614:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S128	2443632.80	1978 May 04 0705:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma/Solar	WDCRF	-	-
1978-S129	2443633.27	1978 May 04 1829:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Plasma/Solar UV/Sol	WDCRF	-	-
1978-S130	2443633.77	1978 May 05 0630:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Plasma	WDCRF	-	-
1978-S145	2443659.36	1978 May 30 2035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Plasma/Fields	WDCRF	-	-
1978-S149	2443666.24	1978 Jun 06 1741:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S150	2443666.36	1978 Jun 06 2035:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S151	2443666.47	1978 Jun 06 2321:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1978-S154	2443670.77	1978 Jun 11 0627:00	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron/Ionos/Plasma/	NASA-PR78-93	WDCRF	-
1978-S159	2443679.67	1978 Jun 20 0410:00	MR-12	-	D-75MG	0.000	AN	SU	-	-	Plasma/Solar UV/Sol	NASA-PR78-93	WDCRF	-
1978-S164	2443683.59	1978 Jun 24 0213:00	MR-12	-	D-75MG	0.000	AN	SU	-	-	Plasma/Solar UV/Sol	NASA-PR78-93	WDCRF	-
1978-S166	2443685.56	1978 Jun 26 0131:00	MR-12	-	D-75MG	0.000	AN	SU	-	-	Plasma/Solar UV/Sol	NASA-PR78-93	WDCRF	-
1978-S270	2443685.60	1978 Jun 26 0231:00	MR-12	-	D-75MG	0.000	AN	SU	-	-	Plasma/Solar UV/Sol	NASA-PR78-93	WDCRF	-
1978-S337	2443689.25	1978 Jun 29 1805	MR-12	-	-	0.000	AN	SS	-	-	Ionos/Barium release	KI22,406	-	-
1978-S171	2443689.50	1978 Jul?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	MRKS	-	-
1978-S172	2443689.50	1978 Jul?	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	MRKS	-	-
1978-S173	2443689.50	1978 Jul	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	MRKS	-	-
1978-S218	2443787.58	1978 Oct 06 0155:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1978-S240	2443843.00	1978 Nov 30 1200:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1978-S241	2443843.17	1978 Nov 30 1600:00	MR-12	-	-	0.000	AN	SS	-	-	Tech	PPK10	-	-
1978-S242	2443843.29	1978 Nov 30 1855:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma/	WDCRF	-	-
1978-S244	2443843.45	1978 Nov 30 2255:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Plasma/Fields/Solar	WDCRF	-	-
1978-S245	2443843.54	1978 Dec 01 0055:00	MR-12	-	MR-12	0.000	AN	SS	-	AN/Adeyshvili,Managadze	Aeron/Ionos/Plasma	WDCRF	KI19,306	-
1979-S01	2443873.50	1979	MR-20	-	MR-20	0.000	AN	SS	-	-	Test	MRKS	-	-
1979-S40	2443894.76	1979 Jan 21 0616:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron/Ionos	WDCRF	-	-
1979-S58	2443912.69	1979 Feb 08 0437:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/CR/Plas	WDCRF	-	-
1979-S71	2443928.09	1979 Feb 23 1409:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron/Ionos/CR/Pla	MRKS	WDCRF	-
1979-S92	2443939.14	1979 Mar 06 1527:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1979-S93	2443943.28	1979 Mar 10 1843:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Plasma/Fields	KI24,794	WDCRF	-
1979-S95	2443946.41	1979 Mar 13 2152:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron/Ionos/Plasma	MRKS	WDCRF	-
1979-S97	2443950.24	1979 Mar 17 1742:00	MR-12	-	MR-12	0.000	AN	SS	-	-	Aeron/Ionos/Plasma	MRKS	WDCRF	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-S105	2443958.62	1979 Mar 26 0253:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1979-S108	2443963.61	1979 Mar 31 0245:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1979-S115	2443968.52	1979 Apr 05 0034:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1979-S116	2443970.58	1979 Apr 07 0148:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1979-S120	2443974.95	1979 Apr 11 1045:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1979-S122	2443978.28	1979 Apr 14 1844:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma	WDCRF	-	-
1979-S148	2444040.27	1979 Jun 15 1830:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1979-S181	2444093.22	1979 Aug 07 1714:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1979-S183	2444096.22	1979 Aug 10 1712:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1979-S191	2444108.20	1979 Aug 22 1642:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1979-S221	2444164.12	1979 Oct 17 1450:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Plasma/Fields	WDCRF	-	-
1979-S222	2444164.54	1979 Oct 18 0055:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos/Plasma/Fields	WDCRF	-	-
1979-S227	2444168.88	1979 Oct 22 0900:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Ionos	WDCRF	-	-
1979-S231	2444172.34	1979 Oct 25 2005:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos/Plasma/	WDCRF	-	-
1979-S253	2444226.58	1979 Dec 19 0157:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Solar UV/Solar EUV	WDCRF	-	-
1979-S255	2444228.00	1979 Dec 20 1158:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Solar UV/Solar EUV	WDCRF	-	-
1979-S257	2444234.09	1979 Dec 26 1405:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1979-S258	2444235.09	1979 Dec 27 1407:00	MR-12	-	MR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	KI19,638	-
1980-S98	2444358.12	1980 Apr 28 1500:00	MR-12	-	-	0.000	AN	SU	-	-	Aeron	WDCRF	-	-
1980-S96	2444357.59	1980 Apr 28 0209:00	MR-12	-	MMR-12	0.000	AN	SU	-	-	Aeron/Ionos	WDCRF	-	-
1980-S74	2444329.50	1980 Apr	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S75	2444329.50	1980 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S76	2444329.50	1980 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S77	2444329.50	1980 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S78	2444329.50	1980 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S79	2444329.50	1980 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S99	2444359.50	1980 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S100	2444359.50	1980 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S101	2444359.50	1980 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S102	2444359.50	1980 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S103	2444359.50	1980 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S118	2444390.50	1980 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S119	2444390.50	1980 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S120	2444390.50	1980 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S121	2444390.50	1980 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S122	2444390.50	1980 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S132	2444420.50	1980 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S133	2444420.50	1980 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S134	2444420.50	1980 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S135	2444420.50	1980 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S136	2444420.50	1980 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S137	2444420.50	1980 Jul	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1980-S211	2444564.83	1980 Nov 21 0752:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S212	2444568.84	1980 Nov 25 0810:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S223	2444578.85	1980 Dec 05 0820:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S230	2444585.55	1980 Dec 12 0105:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S231	2444585.57	1980 Dec 12 0145:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S232	2444585.80	1980 Dec 12 0715:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S237	2444590.56	1980 Dec 17 0120:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1980-S238	2444592.46	1980 Dec 18 2300:00	MR-12	-	-	0.000	GMS	SS	-	GMS/Danilov	Aeron/Ionos	ASR2,10,63	WDCRF	-
1981-S102	2444724.50	1981 May	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S103	2444724.50	1981 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S104	2444724.50	1981 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S105	2444724.50	1981 May?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S111	2444755.50	1981 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S112	2444755.50	1981 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S113	2444755.50	1981 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S114	2444755.50	1981 Jun?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S123	2444785.50	1981 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S124	2444785.50	1981 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S125	2444785.50	1981 Jul?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S132	2444816.50	1981 Aug?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S133	2444816.50	1981 Aug?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S134	2444816.50	1981 Aug?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1981-S135	2444816.50	1981 Aug	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1982-S50	2445000.50	1982 Feb	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S51	2445000.50	1982 Feb?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S63	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S64	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S65	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S66	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S67	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S68	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S69	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S70	2445028.50	1982 Mar?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S95	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S96	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S97	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S98	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S99	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S100	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S101	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S102	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S103	2445059.50	1982 Apr?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S113	2445089.50	1982 May?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1982-S114	2445089.50	1982 May	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-S136	2445546.50	1983 Aug	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S137	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S138	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S139	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S140	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S141	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S142	2445546.50	1983 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S153	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S154	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S155	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S156	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S157	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S158	2445577.50	1983 Sep?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S176	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S177	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S178	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S179	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S180	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S181	2445607.50	1983 Oct?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1983-S182	2445607.50	1983 Oct	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1985-S30	2446096.50	1985 Feb	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S31	2446096.50	1985 Feb?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S32	2446096.50	1985 Feb?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S47	2446124.50	1985 Mar?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S48	2446124.50	1985 Mar?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S49	2446124.50	1985 Mar?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S50	2446124.50	1985 Mar?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S58	2446142.50	1985 Mar 18 0005	MR-20	-	-	0.000	AN	SS	-	-	Plasma/Active	Powell	-	-
1985-S65	2446155.50	1985 Apr?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S66	2446155.50	1985 Apr	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S102	2446277.50	1985 Aug	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S103	2446277.50	1985 Aug?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S106	2446308.50	1985 Sep?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S107	2446308.50	1985 Sep?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S108	2446308.50	1985 Sep?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S109	2446308.50	1985 Sep?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S123	2446338.50	1985 Oct?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S124	2446338.50	1985 Oct?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S125	2446338.50	1985 Oct?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S126	2446338.50	1985 Oct?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S127	2446338.50	1985 Oct?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S132	2446369.50	1985 Nov?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S133	2446369.50	1985 Nov?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S134	2446369.50	1985 Nov?	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1985-S135	2446369.50	1985 Nov	MR-12	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1986-S50	2446581.50	1986 Jun	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S51	2446581.50	1986 Jun?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S62	2446611.50	1986 Jul?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S63	2446611.50	1986 Jul?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S64	2446611.50	1986 Jul?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S65	2446611.50	1986 Jul?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S66	2446611.50	1986 Jul?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S74	2446642.50	1986 Aug?	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S75	2446642.50	1986 Aug	MR-12	-	D-75MG	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S83	2446673.50	1986 Sep	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S84	2446673.50	1986 Sep?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S85	2446673.50	1986 Sep?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S86	2446673.50	1986 Sep?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S95	2446703.50	1986 Oct?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S96	2446703.50	1986 Oct?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S97	2446703.50	1986 Oct?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S98	2446703.50	1986 Oct?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S99	2446703.50	1986 Oct?	MR-12	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S105	2446734.50	1986 Nov?	MR-20	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S106	2446734.50	1986 Nov?	MR-20	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S107	2446734.50	1986 Nov?	MR-20	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1986-S108	2446734.50	1986 Nov?	MR-20	?	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S92	2446946.50	1987 Jun	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S93	2446946.50	1987 Jun?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S94	2446946.50	1987 Jun?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S95	2446946.50	1987 Jun?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S96	2446946.50	1987 Jun?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S101	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S102	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S103	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S104	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S105	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S106	2446976.50	1987 Jul?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S118	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S119	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S120	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S121	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S122	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S123	2447007.50	1987 Aug?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S237	2447014.50	1987 Aug 7	MR-12	?	Start	0.000	AN	SS	-	-	Tech	MRKS	-	-
1987-S136	2447038.50	1987 Sep?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S137	2447038.50	1987 Sep?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S138	2447038.50	1987 Sep?	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S139	2447038.50	1987 Sep	MR-20	-	-	0.000	AN	SU	-	-	Aeron	MRKS	-	-
1987-S238	2447047.50	1987 Sep 9	MR-20	-	Start	0.000	AN	SS	-	-	Tech	MRKS	-	-
1988-S73	2447251.50	1988 Apr?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S85	2447281.50	1988 May?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S86	2447281.50	1988 May?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S87	2447281.50	1988 May?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S88	2447281.50	1988 May?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S89	2447281.50	1988 May?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S97	2447312.50	1988 Jun?	MR-20	-	MR-20	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S101	2447342.50	1988 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S102	2447342.50	1988 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S108	2447373.50	1988 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S109	2447373.50	1988 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S110	2447373.50	1988 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S112	2447404.50	1988 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S113	2447404.50	1988 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S114	2447404.50	1988 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S121	2447434.50	1988 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S122	2447434.50	1988 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S123	2447434.50	1988 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S124	2447434.50	1988 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S131	2447465.50	1988 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S132	2447465.50	1988 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S140	2447495.50	1988 Dec?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1988-S141	2447495.50	1988 Dec	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S64	2447707.50	1989 Jul	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S65	2447707.50	1989 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S66	2447707.50	1989 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S67	2447707.50	1989 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S75	2447738.50	1989 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S76	2447738.50	1989 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S77	2447738.50	1989 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S78	2447738.50	1989 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S84	2447769.50	1989 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S85	2447769.50	1989 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S86	2447769.50	1989 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S87	2447769.50	1989 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S98	2447799.50	1989 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S99	2447799.50	1989 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S100	2447799.50	1989 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S101	2447799.50	1989 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S136	2447827.50	1989 Oct 28	MR-12	-	-	0.000	AN	SS	-	-	Aeron	KI29,722	-	-
1989-S103	2447830.50	1989 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S104	2447830.50	1989 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S105	2447830.50	1989 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1989-S106	2447830.50	1989 Nov	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S01	2447891.50	1990	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S02	2447891.50	1990	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S03	2447891.50	1990	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S04	2447891.50	1990	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S05	2447891.50	1990	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S107	2448103.50	1990 Aug	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S108	2448103.50	1990 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S109	2448103.50	1990 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S110	2448103.50	1990 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S111	2448103.50	1990 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S126	2448134.50	1990 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S127	2448134.50	1990 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S128	2448134.50	1990 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S129	2448134.50	1990 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S130	2448134.50	1990 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S135	2448164.50	1990 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S136	2448164.50	1990 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S137	2448164.50	1990 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S138	2448164.50	1990 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S143	2448195.50	1990 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S144	2448195.50	1990 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S145	2448195.50	1990 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S146	2448195.50	1990 Nov?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S162	2448225.50	1990 Dec?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S163	2448225.50	1990 Dec?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1990-S164	2448225.50	1990 Dec	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S01	2448256.50	1991	MR-20	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S02	2448256.50	1991	MR-20	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S61	2448294.23	1991 Feb 6 1730	MR-12	-	MR-12	0.000	AN	SS	-	-	Plasma/Active	RadQElec38,204	-	-
1991-S117	2448437.50	1991 Jul	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S118	2448437.50	1991 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S119	2448437.50	1991 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S120	2448437.50	1991 Jul?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S128	2448468.50	1991 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S129	2448468.50	1991 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S130	2448468.50	1991 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S131	2448468.50	1991 Aug?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S139	2448499.50	1991 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-S140	2448499.50	1991 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S141	2448499.50	1991 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S142	2448499.50	1991 Sep?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S154	2448529.50	1991 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S155	2448529.50	1991 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S156	2448529.50	1991 Oct?	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1991-S157	2448529.50	1991 Oct	MR-20	-	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1992-S02	2448621.50	1992	MR-12	?	-	0.000	AN	SS	-	-	Aeron	MRKS	-	-
1997-S07	2450479.58	1997 Jan 31 0155:08	MR-12	-	AGRE (D75MG)	0.000	IDG/APL	SS	-	IDG/APL/Partridge	Plasma/Active	KI38-244	SFLT40-207	-
1997-S08	2450484.59	1997 Feb 5 0216:07	MR-12	-	AGRE (D75MG)	0.000	IDG/APL	SS	-	IDG/APL/Partridge	Plasma/Active	KI38-244	SFLT40-207	-
2011-S65	2455914.50	2011 Dec 19?	MR-30	-	-	0.000	RGMS	SS	-	RGMS/	Test	Wire	-	-
2012-S90	2456078.50	2012 May 31	MR-30	-	-	0.000	RGMS	SS	-	RGMS/	Test	Wire	-	-
2014-S18	2456743.43	2014 Mar 26 2225	MN-300	-	MN-300	0.000	RGMS	SF	U	RGMS/	Test	Wire	-	-
2015-S96	2457269.06	2015 Sep 3 1323	MN-300	-	MN-300	0.000	RGMS	SF	U	RGMS/	Test	Krebs	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-A184	2441078.50	1971 May 7	MR-UR-100	-	-	15A15 BI-1-1	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A185	2441041.50	1971 Q2?	MR-UR-100	-	-	15A15 BI-1-2	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A186	2441041.50	1971 Q2?	MR-UR-100	-	-	15A15 BI-1-3	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A187	2441041.50	1971 Q2?	MR-UR-100	-	-	15A15 BI-1-4	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A188	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-5	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A189	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-6	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A190	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-7	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A191	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-8	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A192	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-9	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A193	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-10	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A194	2441132.50	1971 Q3?	MR-UR-100	-	-	15A15 BI-1-11	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A195	2441253.50	1971 Oct 29	MR-UR-100	-	-	15A15 BI-1-12	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A108	2441295.50	1971 Dec 10	MR-UR-100	-	51014-01	15A15 BI-2-1	Silo eject series 2	-	-	NIIP-5	LC67/21	-	-	0	-	-
1971-A172	2441307.80	1971 Dec 22 0705	MR-UR-100	-	51014-02	15A15 BI-2-2	-	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-A17	2441368.99	1972 Feb 21 1150	MR-UR-100	-	67014-03	15A15 BI-2-3	-	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-A25	2441398.04	1972 Mar 21 1304	MR-UR-100	-	45023-304	15A15 BI-2-4	-	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-A48	2441443.80	1972 May 6 0710	MR-UR-100	-	45023-301	15A15 BI-3-1	-	-	-	NIIP-5	LC67/21	-	-	10?	-	NIIP-5
1972-A58	2441461.98	1972 May 24 1130	MR-UR-100	-	45023-302	15A15 BI-3-2	-	-	-	NIIP-5	LC67/21	-	-	10?	-	NIIP-5
1972-A65	2441483.97	1972 Jun 15 1120	MR-UR-100	-	51023-303	15A15 BI-3-3	Dummy St2?	-	-	NIIP-5	LC67/21	-	-	10?	14	NIIP-5
1972-S305	2441575.83	1972 Sep 15 0802	MR-UR-100	-	45023-301	15A15 BI-4-1	4 BB 8F677	RGCh 15F152	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1972-S390	2441624.92	1972 Nov 3 1010	MR-UR-100	-	67023-302	15A15 BI-4-2	4 BB 8F677	RGCh 15F152	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1972-S446	2441677.83	1972 Dec 26 0800	MR-UR-100	-	45053-301-1L	15A15 LKI-1 (GSLI)	4 BB 8F677	RGCh 15F152	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1972-S12	2441680.54	1972 Dec 29 0100	MR-UR-100	-	51049-202-2L	15A15 LKI-2	GCh 15F161	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1973-S102	2441753.50	1973 Mar 12	MR-UR-100	-	-	15A15 LKI-3	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1973-S143	2441778.50	1973 Apr 6	MR-UR-100	-	-	15A15 LKI-4	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1973-A24	2441838.50	1973 Jun 5	MR-UR-100	-	-	15A15 LKI-5	-	-	-	NIIP-5	LC173/50	-	-	0?	-	(Kura)
1973-S204	2441854.50	1973 Jun 21	MR-UR-100	-	-	15A15 LKI-6	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1973-S231	2441872.50	1973 Jul 9	MR-UR-100	-	-	15A15 LKI-7	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1973-S247	2441888.50	1973 Jul 25	MR-UR-100	-	-	15A15 LKI-8	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1973-S336	2441957.50	1973 Oct 2	MR-UR-100	-	-	15A15 LKI-9	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1973-S352	2441973.50	1973 Oct 18	MR-UR-100	-	-	15A15 LKI-10	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1973-S381	2441990.50	1973 Nov 4	MR-UR-100	-	-	15A15 LKI-11	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1973-S444	2442037.50	1973 Dec 21	MR-UR-100	-	-	15A15 LKI-12	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1973-S449	2442043.50	1973 Dec 27	MR-UR-100	-	-	15A15 LKI-13	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1974-S86	2442082.50	1974 Feb 4	MR-UR-100	-	-	15A15 LKI-14	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S119	2442104.50	1974 Feb 26	MR-UR-100	-	-	15A15 LKI-15	4 BB	-	-	NIIP-5	LC173/50	-	-	1000?	-	Pacific
1974-S122	2442107.50	1974 Mar 1	MR-UR-100	-	-	15A15 LKI-16	-	-	-	NIIP-5	LC177	-	-	1000?	-	Pacific
1974-S159	2442140.50	1974 Apr 3	MR-UR-100	-	-	15A15 LKI-17	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S182	2442164.50	1974 Apr 27	MR-UR-100	-	-	15A15 LKI-18	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S183	2442165.50	1974 Apr 28	MR-UR-100	-	-	15A15 LKI-19	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1974-S204	2442195.50	1974 May 28	MR-UR-100	-	-	15A15 LKI-20	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S206	2442198.50	1974 May 31	MR-UR-100	-	-	15A15 LKI-21	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1974-S229	2442219.50	1974 Jun 21	MR-UR-100	-	-	15A15 LKI-22	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S286	2442287.50	1974 Aug 28	MR-UR-100	-	-	15A15 LKI-23	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1974-S302	2442304.50	1974 Sep 14	MR-UR-100	-	-	15A15 LKI-24	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S327	2442317.50	1974 Sep 27	MR-UR-100	-	-	15A15 LKI-25	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1974-S359	2442342.50	1974 Oct 22	MR-UR-100	-	-	15A15 LKI-26	-	-	-	NIIP-5	LC177	-	-	1000?	-	Pacific
1974-S365	2442343.50	1974 Oct 23	MR-UR-100	-	-	15A15 LKI-27	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Pacific
1974-S375	2442363.50	1974 Nov 12	MR-UR-100	-	-	15A15 K-1	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1974-S415	2442398.50	1974 Dec 17	MR-UR-100	-	-	15A15 LKI-28	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1975-S133	2442525.50	1975 Apr 23	MR-UR-100	-	-	15A15 K-2	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1975-S200	2442576.50	1975 Jun 13	MR-UR-100	-	-	15A15 LKI-29	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1975-S221	2442594.50	1975 Jul 1	MR-UR-100	-	-	15A15 LKI-30	-	-	-	NIIP-5	LC177	-	-	1000?	-	Kura
1975-S242	2442636.50	1975 Aug 12	MR-UR-100	-	-	15A15 K-4	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1976-S483	2442777.50	1976	MR-UR-100	-	-	15A15 K	RGCh	-	-	NIIP-5	-	-	-	1000?	-	Kura
1976-S134	2442849.50	1976 Mar 12	MR-UR-100	-	-	15A15 LKI-31	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1976-S182	2442915.50	1976 May 17	MR-UR-100	-	-	15A15 LKI-32	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1976-S202	2442944.50	1976 Jun 15	MR-UR-100	-	-	15A15 LKI-33	-	-	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1976-S210	2442955.50	1976 Jun 26	MR-UR-100	-	-	15A15 LKI-34	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1976-S216	2442958.62	1976 Jun 29 0300	MR-UR-100	-	67026-527 (27L)	15A15 LKI-35	Experimental	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1976-S247	2443002.50	1976 Aug 12	MR-UR-100	-	-	15A15 K-5	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1976-A69	2443072.50	1976 Oct 21	MR-UR-100	-	28L?	15A15 LKI-36	-	-	-	NIIP-5	LC170/43	-	-	0?	-	(Kura)
1976-S306	2443077.50	1976 Oct 26	MR-UR-100	-	-	15A15 LKI-37	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1976-S347	2443126.50	1976 Dec 14	MR-UR-100	-	-	15A15 LKI-38	-	-	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1976-S350	2443128.50	1976 Dec 16	MR-UR-100	-	-	15A15 LKI-39	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1976-A82	2443142.50	1976 Dec 30	MR-UR-100	-	10L	15A15 LKI-40	-	-	-	NIIP-5	LC177/47	-	-	0?	-	(Kura)
1977-S129	2443228.50	1977 Mar 26	MR-UR-100	-	-	15A15 K-6	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1977-S146	2443247.50	1977 Apr 14	MR-UR-100	-	-	15A15 LKI-41	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1977-S168	2443288.50	1977 May 25	MR-UR-100	-	-	15A15 LKI-42	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1977-S211	2443324.50	1977 Jun 30	MR-UR-100	-	-	15A15 K-7	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1977-S223	2443355.10	1977 Jul 30 1430	MR-UR-100	-	51052-105/34L	15A15 LKI-43	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1977-S265	2443441.52	1977 Oct 25 0030	MR-UR-100U 15A16	-	45028-201(1L)	15A16 LKI-1	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1977-S307	2443506.54	1977 Dec 29 0100	MR-UR-100U 15A16	-	51048-202(2L)	15A16 LKI-2	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1978-S75	2443566.50	1978 Feb 27	MR-UR-100	-	-	15A15 UBP-1	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1978-S95	2443593.50	1978 Mar 26	MR-UR-100	-	-	15A15 UBP-2	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1978-S99	2443598.65	1978 Mar 31 0330	MR-UR-100U 15A16	-	67048-803(3L)	15A16 LKI-3	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1978-A19	2443625.63	1978 Apr 27 0310	MR-UR-100U 15A16	-	51035-501(4L)	15A16 LKI-4	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	200?	-	(Kura)
1978-S147	2443664.50	1978 Jun 5	MR-UR-100	-	-	15A15 UBP-3	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1978-S148	2443665.28	1978 Jun 5 1850	MR-UR-100U 15A16	-	67035-502(5L)	15A16 LKI-5	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1978-S168	2443688.34	1978 Jun 28 2010	MR-UR-100U 15A16	-	51035-504(7L)	15A16 LKI-6	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1978-S289	2443711.50	1978 Jul 22	MR-UR-100	-	-	15A15 10 RD UBP-1	-	-	-	KOSTR	LC1/4	-	-	1000?	-	Pacific
1978-S194	2443731.50	1978 Aug 11	MR-UR-100	-	-	15A15 UBP-4?	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	-
1978-S290	2443743.50	1978 Aug 23	MR-UR-100	-	-	15A15 10 RD UBP-2	-	-	-	KOSTR	LC1/3	-	-	1000?	-	Pacific
1978-S199	2443745.62	1978 Aug 25 0300	MR-UR-100U 15A16	-	45035-503(6L)	15A16 LKI-7	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1978-S268	2443763.67	1978 Sep 12 0410	MR-UR-100U 15A16	-	45055-506(9L)	15A16 LKI-8	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC177/47	-	-	0	0	(Kura)
1978-S217	2443783.88	1978 Oct 2 0911	MR-UR-100U 15A16	-	67035-505(8L)	15A16 LKI-9	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-S269	2443840.06	1978 Nov 27 1320	MR-UR-100U 15A16	-	67055-508(11L)	15A16 LKI-10	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC181/52	-	-	50?	-	(Kura)
1979-A57	2443873.50	1979	MR-UR-100	-	-	15A15 UBP	-	-	-	KOSTR	-	-	-	50?	-	(Kura)
1979-A58	2443873.50	1979	MR-UR-100	-	-	15A15 UBP	-	-	-	KOSTR	-	-	-	50?	-	(Kura)
1979-S256	2443958.50	1979 Mar 26	MR-UR-100	-	-	15A15 UBP-5	-	-	-	NIIP-5	LC173/50	-	-	1000?	-	Kura
1979-S138	2444015.05	1979 May 21 1315	MR-UR-100U 15A16	-	45055-509(12L)	15A16 LKI-11	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1979-S142	2444025.03	1979 May 31 1245	MR-UR-100U 15A16	-	51055-510(13L)	15A16 LKI-12	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC181/52?	-	-	1000?	-	Kura
1979-S152	2444050.67	1979 Jun 26 0400	MR-UR-100U 15A16	-	67087-401(14L)	15A16 LKI-13	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1979-S153	2444054.04	1979 Jun 29 1255	MR-UR-100U 15A16	-	67087-514-20T	15A16 LKI-14 K	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1979-S166	2444075.01	1979 Jul 20 1220	MR-UR-100U 15A16	-	51055-507(10L)	15A16 LKI-15	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1979-S177	2444087.98	1979 Aug 2 1130	MR-UR-100U 15A16	-	51087-403(16L)	15A16 LKI-16	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1979-S178	2444089.29	1979 Aug 3 1854	MR-UR-100U 15A16	-	67087-404(17L)	15A16 LKI-17	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1979-S195	2444116.21	1979 Aug 30 1700	MR-UR-100U 15A16	-	45087-405(18L)	15A16 LKI-18	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1979-A51	2444116.50	1979 Sep?	MR-UR-100	-	-	15A15 UBP	-	-	-	KOSTR	-	-	-	1000?	-	Kura
1979-S201	2444131.31	1979 Sep 14 1920	MR-UR-100U 15A16	-	45087-402(15L)	15A16 LKI-19	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1979-S241	2444193.04	1979 Nov 15 1255	MR-UR-100U 15A16	-	45067-524-14T	15A16 UBP-1 ZP	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1979-S02	2444233.50	1979 Dec 26	Perimetr 15A11	-	67067-401(1L)	15A11 LKI-1	GCh 15B99 No. 01L	-	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1979-S752	2444234.50	1979 Dec 27?	MR-UR-100	-	-	15A15 UBP?	-	-	-	KOSTR	-	-	-	1000?	-	Kura
1980-S63	2444305.00	1980 Mar 6 1200	MR-UR-100U 15A16	-	45033-416-45	15A16 UBP-2 ZP	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC170/43	-	-	1000?	-	Kura
1980-S263	2444347.67	1980 Apr 18 0400	MR-UR-100U 15A16	-	45067-524-13T	15A16 UBP-3 ZP	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1980-S01	2444471.50	1980 Aug 20	MR-UR-100	-	-	15A15 UBP-6	-	-	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1981-S229	2444771.50	1981 Jun 16	MR-UR-100	-	-	15A15 10 RD UBP-3	-	-	-	KOSTR	LC4/10	-	-	1000?	-	Kura
1981-S230	2444794.50	1981 Jul 9	MR-UR-100	-	-	15A15 10 RD UBP-4	-	-	-	KOSTR	LC4/5	-	-	1000?	-	Kura
1981-S231	2444800.50	1981 Jul 15	MR-UR-100	-	-	15A15 10 RD UBP-5	-	-	-	KOSTR	LC4/3	-	-	1000?	-	Kura
1981-S232	2444808.50	1981 Jul 23	MR-UR-100	-	-	15A15 10 RD UBP-6	-	-	-	KOSTR	LC4/9	-	-	1000?	-	Kura
1981-S233	2444861.50	1981 Sep 14	MR-UR-100	-	-	15A15 10 RD UBP-7	-	-	-	KOSTR	LC4/7	-	-	1000?	-	Kura
1981-S100	2444865.31	1981 Sep 17 1920	MR-UR-100U 15A16	-	45067-524-11	15A16 UBP-4	4 BB 15F162/AA79	RGCh 15F161	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1981-S234	2444865.50	1981 Sep 18	MR-UR-100	-	-	15A15 10 RD UBP-8	-	-	-	KOSTR	LC4/2	-	-	1000?	-	Kura
1981-S01	2444929.87	1981 Nov 21 0849:23	Perimetr 15A11	-	51033-625(7L)	15A11 LKI-2	GCh 15B99	-	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1982-A01	2444998.14	1982 Jan 28 1515	Perimetr 15A11	-	45033-621(2L)	15A11 LKI-3	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1?	-	(Kura)
1982-S268	2445016.50	1982 Feb 16	MR-UR-100U 15A16	-	-	15A16 10 RD UBP-1	4 BB 15F162/AA79	RGCh 15F161	-	KOSTR	LC16/1	-	-	1000?	-	Kura
1982-S265	2445020.50	1982 Feb 20	MR-UR-100	-	-	15A15 10 RD UBP-9	-	-	-	KOSTR	LC4/2	-	-	1000?	-	Kura
1982-S266	2445050.50	1982 Mar 22	MR-UR-100	-	-	15A15 10 RD UBP-10	-	-	-	KOSTR	LC4/6	-	-	1000?	-	Kura
1982-S267	2445051.50	1982 Mar 23	MR-UR-100	-	-	15A15 10 RD UBP-11	-	-	-	KOSTR	LC4/2	-	-	1000?	-	Kura
1982-S01	2445086.14	1982 Apr 26 1519:59	Perimetr 15A11	-	67033-623(4L)	15A11 LKI-4	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1982-S02	2445150.15	1982 Jun 29 1530:07	Perimetr 15A11	-	45033-624(5L)	15A11 LKI-5	GCh 15B99	-	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1982-S03	2445264.97	1982 Oct 22 1114:55	Perimetr 15A11	-	45067-402(6L)	15A11 LKI-6	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1982-S04	2445297.50	1982 Nov 24	Perimetr 15A11	-	51033-622(3L)	15A11 LKI-7	GCh 15B99	-	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1983-S01	2445410.99	1983 Mar 17 1140	Perimetr 15A11	-	67083-626(8L)	15A11 LKI-8	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1983-S272	2445611.50	1983 Oct 4	MR-UR-100U 15A16	-	-	15A16 10 RD UBP-2	4 BB 15F162/AA79	RGCh 15F161	-	KOSTR	LC6/10	-	-	1000?	-	Kura
1984-S01	2445727.18	1984 Jan 27 1625	Perimetr 15A11	-	51099-801(9L)	15A11 LKI-9	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1984-S128	2445808.24	1984 Apr 17 1742	Perimetr 15A11	-	67099-802(10L)	15A11 LKI-10	GCh 15B99	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1984-S02	2446005.27	1984 Oct 31 1835	MR-UR-100	-	45026-31-510	15A15 UBP-7	4 BB 15F158U1	RGCh 15F154	-	NIIP-5	LC181/52	-	-	1000?	-	Kura
1987-S226	2446935.50	1987 May 20	MR-UR-100	-	51034-41-503	15A15 10 RD UBP-12	-	-	-	KOSTR	LC1/4	-	-	1000?	-	Kura
1987-S227	2446938.50	1987 May 23	MR-UR-100	-	51035-41-502	15A15 10 RD UBP-13	-	-	-	KOSTR	LC1/3	-	-	1000?	-	Kura
1988-S02	2447272.13	1988 Apr 20 1510	Perimetr 15A11	-	51029-804	15A11 UBP-4	GCh 15B99	-	-	NIIP-5	LC181/52	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-A184	2441078.50	1971 May 7	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A185	2441041.50	1971 Q2?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A186	2441041.50	1971 Q2?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A187	2441041.50	1971 Q2?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A188	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A189	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A190	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A191	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A192	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A193	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A194	2441132.50	1971 Q3?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A195	2441253.50	1971 Oct 29	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	RML	-	BMLX:Dec29
1971-A108	2441295.50	1971 Dec 10	MR-UR-100	-	51014-01	0.000	RVSN	MF	U	-	Test	Kosmodrom0104-10	-	BML0145/1940
1971-A172	2441307.80	1971 Dec 22 0705	MR-UR-100	-	51014-02	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-A17	2441368.99	1972 Feb 21 1150	MR-UR-100	-	67014-03	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-A25	2441398.04	1972 Mar 21 1304	MR-UR-100	-	45023-304	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-A48	2441443.80	1972 May 6 0710	MR-UR-100	-	45023-301	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-A58	2441461.98	1972 May 24 1130	MR-UR-100	-	45023-302	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-A65	2441483.97	1972 Jun 15 1120	MR-UR-100	-	51023-303	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-S305	2441575.83	1972 Sep 15 0802	MR-UR-100	-	45023-301	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-S390	2441624.92	1972 Nov 3 1010	MR-UR-100	-	67023-302	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-S446	2441677.83	1972 Dec 26 0800	MR-UR-100	-	45053-301-1L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0104-10	-
1972-S12	2441680.54	1972 Dec 29 0100	MR-UR-100	-	51049-202-2L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1973-S102	2441753.50	1973 Mar 12	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S143	2441778.50	1973 Apr 6	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-A24	2441838.50	1973 Jun 5	MR-UR-100	-	-	0.000	RVSN	MF	U	-	Test	Kosmodrom0104-10	-	-
1973-S204	2441854.50	1973 Jun 21	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S231	2441872.50	1973 Jul 9	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S247	2441888.50	1973 Jul 25	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S336	2441957.50	1973 Oct 2	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S352	2441973.50	1973 Oct 18	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S381	2441990.50	1973 Nov 4	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S444	2442037.50	1973 Dec 21	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1973-S449	2442043.50	1973 Dec 27	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S86	2442082.50	1974 Feb 4	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S119	2442104.50	1974 Feb 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S122	2442107.50	1974 Mar 1	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S159	2442140.50	1974 Apr 3	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S182	2442164.50	1974 Apr 27	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S183	2442165.50	1974 Apr 28	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S204	2442195.50	1974 May 28	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S206	2442198.50	1974 May 31	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S229	2442219.50	1974 Jun 21	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S286	2442287.50	1974 Aug 28	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S302	2442304.50	1974 Sep 14	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S327	2442317.50	1974 Sep 27	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1974-S359	2442342.50	1974 Oct 22	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	SFLT17-1	-
1974-S365	2442343.50	1974 Oct 23	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	SFLT17-1	-
1974-S375	2442363.50	1974 Nov 12	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1974-S415	2442398.50	1974 Dec 17	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1975-S133	2442525.50	1975 Apr 23	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1975-S200	2442576.50	1975 Jun 13	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1975-S221	2442594.50	1975 Jul 1	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1975-S242	2442636.50	1975 Aug 12	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S483	2442777.50	1976	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S134	2442849.50	1976 Mar 12	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S182	2442915.50	1976 May 17	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S202	2442944.50	1976 Jun 15	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S210	2442955.50	1976 Jun 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S216	2442958.62	1976 Jun 29 0300	MR-UR-100	-	67026-527 (27L)	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S247	2443002.50	1976 Aug 12	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1976-A69	2443072.50	1976 Oct 21	MR-UR-100	-	28L?	0.000	RVSN	MF	U	-	Test	Kosmodrom0104-10	-	-
1976-S306	2443077.50	1976 Oct 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S347	2443126.50	1976 Dec 14	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-S350	2443128.50	1976 Dec 16	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1976-A82	2443142.50	1976 Dec 30	MR-UR-100	-	10L	0.000	RVSN	MF	U	-	Test	Kosmodrom0104-10	-	-
1977-S129	2443228.50	1977 Mar 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1977-S146	2443247.50	1977 Apr 14	MR-UR-100	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0104-10	-	-
1977-S168	2443288.50	1977 May 25	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT?	Kosmodrom0104-10	-	-
1977-S211	2443324.50	1977 Jun 30	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1977-S223	2443355.10	1977 Jul 30 1430	MR-UR-100	-	51052-105/34L	0.000	RVSN	MS	-	-	Test	RML	Kosmodrom0104-10	-
1977-S265	2443441.52	1977 Oct 25 0030	MR-UR-100U 15A16	-	45028-201(1L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1977-S307	2443506.54	1977 Dec 29 0100	MR-UR-100U 15A16	-	51048-202(2L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1978-S75	2443566.50	1978 Feb 27	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1978-S95	2443593.50	1978 Mar 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1978-S99	2443598.65	1978 Mar 31 0330	MR-UR-100U 15A16	-	67048-803(3L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1978-A19	2443625.63	1978 Apr 27 0310	MR-UR-100U 15A16	-	51035-501(4L)	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0105	St2Fail258s
1978-S147	2443664.50	1978 Jun 5	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1978-S148	2443665.28	1978 Jun 5 1850	MR-UR-100U 15A16	-	67035-502(5L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1978-S168	2443688.34	1978 Jun 28 2010	MR-UR-100U 15A16	-	51035-504(7L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1978-S289	2443711.50	1978 Jul 22	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S194	2443731.50	1978 Aug 11	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	Kosmodrom0104-10	-	-
1978-S290	2443743.50	1978 Aug 23	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S199	2443745.62	1978 Aug 25 0300	MR-UR-100U 15A16	-	45035-503(6L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1978-S268	2443763.67	1978 Sep 12 0410	MR-UR-100U 15A16	-	45055-506(9L)	0.000	RVSN	ME	-	-	OT	BML	Kosmodrom0105	PP
1978-S217	2443783.88	1978 Oct 2 0911	MR-UR-100U 15A16	-	67035-505(8L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-S269	2443840.06	1978 Nov 27 1320	MR-UR-100U 15A16	-	67055-508(11L)	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0105	St2NoSep
1979-A57	2443873.50	1979	MR-UR-100	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1979-A58	2443873.50	1979	MR-UR-100	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1979-S256	2443958.50	1979 Mar 26	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1979-S138	2444015.05	1979 May 21 1315	MR-UR-100U 15A16	-	45055-509(12L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S142	2444025.03	1979 May 31 1245	MR-UR-100U 15A16	-	51055-510(13L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S152	2444050.67	1979 Jun 26 0400	MR-UR-100U 15A16	-	67087-401(14L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S153	2444054.04	1979 Jun 29 1255	MR-UR-100U 15A16	-	67087-514-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S166	2444075.01	1979 Jul 20 1220	MR-UR-100U 15A16	-	51055-507(10L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S177	2444087.98	1979 Aug 2 1130	MR-UR-100U 15A16	-	51087-403(16L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S178	2444089.29	1979 Aug 3 1854	MR-UR-100U 15A16	-	67087-404(17L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S195	2444116.21	1979 Aug 30 1700	MR-UR-100U 15A16	-	45087-405(18L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-A51	2444116.50	1979 Sep?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1979-S201	2444131.31	1979 Sep 14 1920	MR-UR-100U 15A16	-	45087-402(15L)	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S241	2444193.04	1979 Nov 15 1255	MR-UR-100U 15A16	-	45067-524-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	PP
1979-S02	2444233.50	1979 Dec 26	Perimetr 15A11	-	67067-401(1L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1979-S752	2444234.50	1979 Dec 27?	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1980-S63	2444305.00	1980 Mar 6 1200	MR-UR-100U 15A16	-	45033-416-45	0.000	RVSN	MS	-	-	OT	Kosmodrom0105	-	-
1980-S263	2444347.67	1980 Apr 18 0400	MR-UR-100U 15A16	-	45067-524-13T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0105	-
1980-S01	2444471.50	1980 Aug 20	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S229	2444771.50	1981 Jun 16	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S230	2444794.50	1981 Jul 9	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S231	2444800.50	1981 Jul 15	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S232	2444808.50	1981 Jul 23	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S233	2444861.50	1981 Sep 14	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S100	2444865.31	1981 Sep 17 1920	MR-UR-100U 15A16	-	45067-524-11	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S234	2444865.50	1981 Sep 18	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S01	2444929.87	1981 Nov 21 0849:23	Perimetr 15A11	-	51033-625(7L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1982-A01	2444998.14	1982 Jan 28 1515	Perimetr 15A11	-	45033-621(2L)	0.000	RVSN	MF	U	-	Test	BML	RPCA	-
1982-S268	2445016.50	1982 Feb 16	MR-UR-100U 15A16	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S265	2445020.50	1982 Feb 20	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S266	2445050.50	1982 Mar 22	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S267	2445051.50	1982 Mar 23	MR-UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S01	2445086.14	1982 Apr 26 1519:59	Perimetr 15A11	-	67033-623(4L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1982-S02	2445150.15	1982 Jun 29 1530:07	Perimetr 15A11	-	45033-624(5L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1982-S03	2445264.97	1982 Oct 22 1114:55	Perimetr 15A11	-	45067-402(6L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1982-S04	2445297.50	1982 Nov 24	Perimetr 15A11	-	51033-622(3L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-S01	2445410.99	1983 Mar 17 1140	Perimetr 15A11	-	67083-626(8L)	0.000	RVSN	MS	-	-	Test	RPCA	-	BML1238 or 1140
1983-S272	2445611.50	1983 Oct 4	MR-UR-100U 15A16	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1984-S01	2445727.18	1984 Jan 27 1625	Perimetr 15A11	-	51099-801(9L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1984-S128	2445808.24	1984 Apr 17 1742	Perimetr 15A11	-	67099-802(10L)	0.000	RVSN	MS	-	-	Test	BML	Zaloga	-
1984-S02	2446005.27	1984 Oct 31 1835	MR-UR-100	-	45026-31-510	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1987-S226	2446935.50	1987 May 20	MR-UR-100	-	51034-41-503	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1987-S227	2446938.50	1987 May 23	MR-UR-100	-	51035-41-502	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1988-S02	2447272.13	1988 Apr 20 1510	Perimetr 15A11	-	51029-804	0.000	RVSN	MS	-	-	Test	BML	RPCA	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-S213	2444571.50	1980 Nov 28	MSBS M4	-	1	-	-	-	-	CEL	BLB	-	-	800?	-	-
1981-S02	2444604.50	1981?	MSBS M4	-	2	-	-	-	-	CEL	BLB	-	-	800?	-	-
1981-A01	2444604.50	1981	MSBS M4	-	3	-	-	-	-	CEL	BLB	-	-	0?	-	-
1981-S03	2444604.50	1981	MSBS M4	-	4	-	-	-	-	CEL	BLB	-	-	800?	-	-
1981-S04	2444604.50	1981?	MSBS M4	-	5	-	-	-	-	CEL	BLB	-	-	800?	-	-
1982-S05	2444969.50	1982?	MSBS M4	-	6	-	-	-	-	CEL	BLB	-	-	800?	-	-
1982-S06	2444969.50	1982?	MSBS M4	-	7	-	-	-	-	CEL	BLB	-	-	800?	-	-
1982-S74	2445038.50	1982 Mar 10	MSBS M4	-	8	-	-	-	S655	CEL	-	-	-	800?	-	-
1982-S07	2444969.50	1982?	MSBS M4	-	-	-	-	-	S655	CEL	-	-	-	800?	-	-
1982-S08	2444969.50	1982?	MSBS M4	-	-	-	-	-	S655	CEL	-	-	-	800?	-	-
1983-S124	2445527.50	1983 Jul 12	MSBS M4	-	-	-	-	-	S655	CEL	-	-	-	800?	-	-
1983-S02	2445334.50	1983	MSBS M4	-	-	-	-	-	S655	BRET	-	-	-	800?	-	-
1983-S207	2445661.50	1983 Nov 23	MSBS M4	-	13	-	-	-	S655	CEL	-	-	-	800?	-	-
1984-S62	2445759.50	1984 Feb 29	MSBS M4	-	14	-	-	-	S655	CEL	-	-	-	800?	-	-
1984-S100	2445893.50	1984 Jul 12	MSBS M4	-	-	-	-	-	S615	CEL	-	-	-	800?	-	-
1986-S26	2446489.50	1986 Mar	MSBS M4	-	-	Long range test	M45 development?	-	S615?	CEL	-	-	-	800?	6000	-
1987-S271	2447053.50	1987 Sep 15	MSBS M4	-	-	Operational test	-	-	S614	BRET?	-	-	-	800?	-	-
1995-S13	2449762.50	1995 Feb 14	MSBS M45	-	1	-	-	-	S616	BRET?	-	-	-	800?	-	-
1996-A13	2450345.50	1996 Sep 19	MSBS M45	-	2	-	-	-	S616	BRET	-	-	-	10?	-	-
1999-S29	2451302.50	1999 May 4	MSBS M45	-	3	-	-	-	S617	BRET?	-	-	-	800?	-	-
1999-S30	2451302.50	1999 May 4	MSBS M4	?	-	Veuglaire	-	-	S615	BRET?	-	-	-	800?	-	-
2001-S17	2452017.42	2001 Apr 17 2200	MSBS M45	-	4	M51 R&D (to CSG)	-	-	S615	BRET	-	-	-	800?	-	-
2004-S20	2453158.42	2004 Jun 1 2201	MSBS M45	-	5	ME-34 Teutates	-	-	S618	BRET	-	-	-	800?	-	-
2005-S04	2453402.50	2005 Feb 1	MSBS M45	-	6?	-	-	-	S616	BRET	-	-	-	800?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-S213	2444571.50	1980 Nov 28	MSBS M4	-	1	0.000	DMA	MS	-	-	Test	deCordemoy	-	-
1981-S02	2444604.50	1981?	MSBS M4	-	2	0.000	DMA	MS	-	-	Test	JCM	-	-
1981-A01	2444604.50	1981	MSBS M4	-	3	0.000	DMA	MF	U	-	Test	Villain	-	-
1981-S03	2444604.50	1981	MSBS M4	-	4	0.000	DMA	MS	-	-	Test	Villain	-	-
1981-S04	2444604.50	1981?	MSBS M4	-	5	0.000	DMA	MS	-	-	Test	Villain	-	-
1982-S05	2444969.50	1982?	MSBS M4	-	6	0.000	DMA	MS	-	-	Test	Villain	-	-
1982-S06	2444969.50	1982?	MSBS M4	-	7	0.000	DMA	MS	-	-	Test	Villain	-	-
1982-S74	2445038.50	1982 Mar 10	MSBS M4	-	8	0.000	DMA	MS	-	-	Test	deCordemoy	-	-
1982-S07	2444969.50	1982?	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	Villain	-	-
1982-S08	2444969.50	1982?	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	Villain	-	-
1983-S124	2445527.50	1983 Jul 12	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	JCM	-	-
1983-S02	2445334.50	1983	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	Villain	-	-
1983-S207	2445661.50	1983 Nov 23	MSBS M4	-	13	0.000	DMA	MS	-	-	Test	JCM	-	-
1984-S62	2445759.50	1984 Feb 29	MSBS M4	-	14	0.000	DMA	MS	-	-	Test	fas.org	-	-
1984-S100	2445893.50	1984 Jul 12	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	deCordemoy	Villain	-
1986-S26	2446489.50	1986 Mar	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	www.fas.org	-	-
1987-S271	2447053.50	1987 Sep 15	MSBS M4	-	-	0.000	DMA	MS	-	-	Test	www.fas.org	-	-
1995-S13	2449762.50	1995 Feb 14	MSBS M45	-	1	0.000	DMA	MS	-	-	Test	Aerospatiale-WWW	www.netmarine.net	-
1996-A13	2450345.50	1996 Sep 19	MSBS M45	-	2	0.000	DMA	MF	U	-	Test	obsarm.org	-	-
1999-S29	2451302.50	1999 May 4	MSBS M45	-	3	0.000	DMA	MS	-	-	Test	www.netmarine.net	-	-
1999-S30	2451302.50	1999 May 4	MSBS M4	?	-	0.000	DMA	MS	-	-	Test	www.netmarine.net	-	-
2001-S17	2452017.42	2001 Apr 17 2200	MSBS M45	-	4	0.000	DMA	MS	-	-	Test	www.orbireport.com	-	-
2004-S20	2453158.42	2004 Jun 1 2201	MSBS M45	-	5	0.000	DMA	MS	-	-	Test	www.orbireport.com	-	-
2005-S04	2453402.50	2005 Feb 1	MSBS M45	-	6?	0.000	DMA	MS	-	-	Test	defense.gouv.fr	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-W16	2438483.59	1964 Mar 29 0212	MT-135	-	PT-135-1	Propellant Test	-	-	-	KASC	-	-	-	51	-	-
1964-A108	2438600.59	1964 Jul 24 0207:00	MT-135	-	MT-135-001	-	-	-	-	KASC	-	-	-	49	-	-
1964-W106	2438713.59	1964 Nov 14 0210:00	MT-135	-	MT-135-002	-	-	-	-	KASC	-	-	-	55	-	-
1964-W107	2438714.80	1964 Nov 15 0710:00	MT-135	-	MT-135-003	-	-	-	-	KASC	-	-	-	55	-	-
1965-W35	2438828.59	1965 Mar 09 0210:00	MT-135	-	MT-135-004	-	-	-	-	KASC	-	-	-	53	-	-
1965-W39	2438830.59	1965 Mar 11 0207:00	MT-135	-	MT-135-005	-	-	-	-	KASC	-	-	-	60	-	-
1965-W40	2438830.80	1965 Mar 11 0707:00	MT-135	-	MT-135-006	-	-	-	-	KASC	-	-	-	60	-	-
1965-W94	2438949.60	1965 Jul 08 0226:00	MT-135	-	MT-135-007	-	-	-	-	KASC	-	-	-	50	-	-
1965-W95	2438949.97	1965 Jul 08 1110:00	MT-135	-	MT-135-008	-	-	-	-	KASC	-	-	-	50	-	-
1965-W96	2438953.59	1965 Jul 12 0207:00	MT-135	-	MT-135-009	-	-	-	-	KASC	-	-	-	50?	-	-
1965-A137	2439032.58	1965 Sep 29 0200:00	MT-135	-	MT-135-010	-	-	-	-	KASC	-	-	-	48	-	-
1965-W136	2439032.79	1965 Sep 29 0700:00	MT-135	-	MT-135-011	-	-	-	-	KASC	-	-	-	51	-	-
1966-W19	2439143.59	1966 Jan 18 0210:00	MT-135	-	MT-135-012	-	-	-	-	KASC	-	-	-	54	-	-
1966-A17	2439144.94	1966 Jan 19 1030:00	MT-135	-	MT-135-014	-	-	-	-	KASC	-	-	-	49	-	-
1966-W21	2439144.58	1966 Jan 19 0200:00	MT-135	-	MT-135-013	-	-	-	-	KASC	-	-	-	59	-	-
1966-W246	2439245.60	1966 Apr 30 0220:00	MT-135	-	MT-135-015	-	-	-	-	KASC	-	-	-	53	-	-
1966-W247	2439245.94	1966 Apr 30 1040:00	MT-135	-	MT-135-016	-	-	-	-	KASC	-	-	-	54	-	-
1966-W249	2439247.58	1966 May 02 0200:00	MT-135	-	MT-135-017	-	-	-	-	KASC	-	-	-	55	-	-
1966-A98	2439348.73	1966 Aug 11 0530	MT-135	-	IT-135-1	-	-	-	-	KASC	-	-	-	45	-	-
1966-W307	2439355.58	1966 Aug 18 0200:00	MT-135	-	MT-135-018	-	-	-	-	KASC	-	-	-	52	-	-
1966-W336	2439389.59	1966 Sep 21 0210	MT-135	-	DT-135-1	-	-	-	-	KASC	-	-	-	56	-	-
1966-A120	2439411.60	1966 Oct 13 0225:00	MT-135	-	MT-135-019	-	-	-	-	KASC	-	-	-	44	-	-
1966-W351	2439411.68	1966 Oct 13 0420:00	MT-135	-	MT-135-A -020	-	-	-	-	KASC	-	-	-	65	-	-
1967-W26	2439509.58	1967 Jan 19 0200:00	MT-135	-	MT-135-021	-	-	-	-	KASC	-	-	-	60	-	-
1967-W29	2439512.58	1967 Jan 22 0200:00	MT-135	-	MT-135-022	-	-	-	-	KASC	-	-	-	63	-	-
1967-W30	2439512.71	1967 Jan 22 0500:00	MT-135	-	MT-135-023	-	-	-	-	KASC	-	-	-	62	-	-
1967-W31	2439512.83	1967 Jan 22 0800:00	MT-135	-	MT-135-024	-	-	-	-	KASC	-	-	-	59	-	-
1967-W33	2439514.58	1967 Jan 24 0200:00	MT-135	-	MT-135-025	-	-	-	-	KASC	-	-	-	59	-	-
1967-W74	2439581.27	1967 Mar 31 1828	MT-135	-	MT-135-026?	-	-	-	-	WI	-	-	-	54	-	-
1967-W76	2439584.88	1967 Apr 4 0910	MT-135	-	MT-135-027?	-	-	-	-	WI	-	-	-	54	-	-
1967-W78	2439584.91	1967 Apr 4 0955	MT-135	-	MT-135-028?	-	-	-	-	WI	-	-	-	57	-	-
1967-W80	2439584.96	1967 Apr 4 1107	MT-135	-	MT-135-029?	-	-	-	-	WI	-	-	-	54	-	-
1967-W82	2439585.00	1967 Apr 4 1156	MT-135	-	MT-135-030?	-	-	-	-	WI	-	-	-	57	-	-
1967-W83	2439585.19	1967 Apr 4 1628	MT-135	-	MT-135-031?	-	-	-	-	WI	-	-	-	55	-	-
1967-W86	2439585.45	1967 Apr 4 2244	MT-135	-	MT-135-032?	-	-	-	-	WI	-	-	-	56	-	-
1967-W88	2439585.51	1967 Apr 5 0015	MT-135	-	MT-135-033?	-	-	-	-	WI	-	-	-	56	-	-
1967-W90	2439585.54	1967 Apr 5 0101	MT-135	-	MT-135-034?	-	-	-	-	WI	-	-	-	54	-	-
1967-W92	2439585.65	1967 Apr 5 0333	MT-135	-	MT-135-035?	-	-	-	-	WI	-	-	-	56	-	-
1968-W184	2440114.58	1968 Sep 15 0200:00	MT-135	-	MT-135-036	-	-	-	-	KASC	-	-	-	55	-	-
1968-W185	2440114.72	1968 Sep 15 0518:00	MT-135	-	MT-135-037	-	-	-	-	KASC	-	-	-	56	-	-
1969-W18	2440225.58	1969 Jan 04 0200:00	MT-135	-	MT-135-038	-	-	-	-	KASC	-	-	-	57	-	-
1969-W19	2440225.71	1969 Jan 04 0500:00	MT-135	-	MT-135-039	-	-	-	-	KASC	-	-	-	59	-	-
1969-W20	2440226.58	1969 Jan 5 0200	MT-135	-	MT-135-40	-	-	-	-	KASC	-	-	-	59	-	-
1969-A06	2440226.71	1969 Jan 5 0500	MT-135P	-	MT-135P-1	-	-	-	-	KASC	-	-	-	44	-	-
1969-W1192	2440470.58	1969 Sep 06 0200:00	MT-135	-	MT-135-041	-	-	-	-	KASC	-	-	-	59	-	-
1969-W1195	2440471.71	1969 Sep 07 0500:00	MT-135	-	MT-135-042	-	-	-	-	KASC	-	-	-	57	-	-
1969-W1194	2440471.58	1969 Sep 07 0200:00	MT-135P	-	MT-135-P -002	-	-	-	-	KASC	-	-	-	53	-	-
1969-W1315	2440491.59	1969 Sep 27 0205:00	MT-135P	-	MT-135-P -003	-	-	-	-	KASC	-	-	-	52	-	-
1969-A164	2440491.71	1969 Sep 27 0500:00	MT-135	-	MT-135-043	-	-	-	-	KASC	-	-	-	49	-	-
1970-W142	2440608.71	1970 Jan 22 0500:00	MT-135P	-	MT-135-P -004	-	-	-	-	KASC	-	-	-	53	-	-
1970-W145	2440609.60	1970 Jan 23 0220:00	MT-135P	-	MT-135-P -005	-	-	-	-	KASC	-	-	-	53	-	-
1970-A142	2440782.58	1970 Jul 15 0200	MT-135P	-	MT135P-R1	Range Test	-	-	-	RYO	-	-	-	44	-	-
1970-W1144	2440803.58	1970 Aug 5 0200	MT-135P	-	MT135P-R2	Range Test	-	-	-	RYO	-	-	-	50	-	-
1970-A143	2440817.59	1970 Aug 19 0210	MT-135P	-	MT135P-R3	-	-	-	-	RYO	-	-	-	47	-	-
1970-A144	2440831.60	1970 Sep 2 0220	MT-135P	-	MT135P-R4	-	-	-	-	RYO	-	-	-	47	-	-
1970-A145	2440860.59	1970 Oct 1 0205	MT-135P	-	MT135P-R5	-	-	-	-	RYO	-	-	-	49	-	-
1970-A146	2440873.58	1970 Oct 14 0200	MT-135P	-	MT135P-R7	-	-	-	-	RYO	-	-	-	47	-	-
1970-W1898	2440887.58	1970 Oct 28 0200	MT-135P	-	MT135P-R8	-	-	-	-	RYO	-	-	-	50	-	-
1970-W1899	2440902.58	1970 Nov 12 0200	MT-135P	-	MT135P-R6	-	-	-	-	RYO	-	-	-	50	-	-
1970-A147	2440915.58	1970 Nov 25 0200	MT-135P	-	MT135P-R9	-	-	-	-	RYO	-	-	-	48	-	-
1970-A148	2440930.58	1970 Dec 10 0200	MT-135P	-	MT135P-R10	-	-	-	-	RYO	-	-	-	49	-	-
1970-W1900	2440943.60	1970 Dec 23 0220	MT-135P	-	MT135P-R11	-	-	-	-	RYO	-	-	-	54	-	-
1971-W1692	2440957.58	1971 Jan 6 0201	MT-135P	-	MT135P-R12	-	-	-	-	RYO	-	-	-	51	-	-
1971-A113	2440964.58	1971 Jan 13 0200	MT-135P	-	MT135P-R13	-	-	-	-	RYO	-	-	-	43	-	-
1971-W1693	2440971.58	1971 Jan 20 0200	MT-135P	-	MT135P-R14	-	-	-	-	RYO	-	-	-	50	-	-
1971-A114	2440978.58	1971 Jan 27 0200	MT-135P	-	MT135P-R15	-	-	-	-	RYO	-	-	-	48	-	-
1971-W1694	2440985.58	1971 Feb 3 0200	MT-135P	-	MT135P-R16	-	-	-	-	RYO	-	-	-	56	-	-
1971-W1695	2440993.58	1971 Feb 11 0200	MT-135P	-	MT135P-R17	-	-	-	-	RYO	-	-	-	51	-	-
1971-W1696	2441000.58	1971 Feb 18 0200	MT-135P	-	MT135P-R18	-	-	-	-	RYO	-	-	-	53	-	-
1971-A115	2441014.58	1971 Mar 4 0200	MT-135P	-	MT135P-R19	-	-	-	-	RYO	-	-	-	0?	-	-
1971-W1697	2441021.58	1971 Mar 11 0200	MT-135P	-	MT135P-R20	-	-	-	-	RYO	-	-	-	56	-	-
1971-W1698	2441034.58	1971 Mar 24 0200	MT-135P	-	MT135P-R21	-	-	-	-	RYO	-	-	-	54	-	-
1971-W1699	2441048.58	1971 Apr 7 0200	MT-135P	-	MT135P-R22	-	-	-	-	RYO	-	-	-	54	-	-
1971-W1700	2441062.58	1971 Apr 21 0200	MT-135P	-	MT135P-R23	-	-	-	-	RYO	-	-	-	54	-	-
1971-W1701	2441077.58	1971 May 6 0200	MT-135P	-	MT135P-R24	-	-	-	-	RYO	-	-	-	55	-	-
1971-W1702	2441083.58	1971 May 12 0200	MT-135P	-	MT135P-R25	-	-	-	-	RYO	-	-	-	49	-	-
1972-W170	2441349.79	1972 Feb 2 0656	MT-135P	-	MT135P T1	-	-	-	-	TNSC	T	-	-	50?	-	-
1972-W190	2441354.78	1972 Feb 7 0645	MT-135P	-	MT135P T2	-	-	-	-	TNSC	T	-	-	50?	-	-
1972-M26	2441393.14	1972 Mar 16 1516	MT-135P	-	-	-	-	-	-	WI	-	-	-	50?	-	-
1972-M25	2441397.36	1972 Mar 20 2032	MT-135P	-	-	-	-	-	-	WI	-	-	-	50?	-	-
1972-W1098	2441559.56	1972 Aug 30 0130	MT-135P	-	MT135P T3	-	-	-	-	TNSC	T	-	-	50?	-	-
1972-W1099	2441559.76	1972 Aug 30 0615	MT-135P	-	MT135P T4	-	-	-	-	TNSC	T	-	-	52	-	-
1973-W181	2441718.58	1973 Feb 5 0152	MT-135P	-	MT135P T5	-	-	-	-	TNSC	T	-	-	58	-	-
1973-W203	2441721.56	1973 Feb 8 0130	MT-135P	-	MT135P T6	-	-	-	-	TNSC	T	-	-	50?	-	-
1973-W1122	2441930.58	1973 Sep 5 0157	MT-135P	-	MT135P T7	-	-	-	-	TNSC	T	-	-	57	-	-
1973-W1123	2441930.77	1973 Sep 5 0630	MT-135P	-	MT135P T8	-	-	-	-	TNSC	T	-	-	50?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1626	2442076.58	1974 Jan 29 0200	MT-135P	-	MT135P-R139	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1627	2442056.58	1974 Jan 9 0200	MT-135P	-	MT135P-R144	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1628	2442070.58	1974 Jan 23 0200	MT-135P	-	MT135P-R145	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1629	2442078.58	1974 Jan 31 0200	MT-135P	-	MT135P-R146	-	-	-	-	RYO	-	-	-	60	-	-
1974-W159	2442080.56	1974 Feb 2 0130	MT-135P	-	MT135P T9	-	-	-	-	TNSC	T	-	-	50?	-	-
1974-W1630	2442084.59	1974 Feb 6 0205	MT-135P	-	MT135P-R147	-	-	-	-	RYO	-	-	-	60	-	-
1974-W183	2442088.77	1974 Feb 10 0630	MT-135P	-	MT135P T10	-	-	-	-	TNSC	T	-	-	50?	-	-
1974-W1631	2442098.58	1974 Feb 20 0200	MT-135P	-	MT135P-R148	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1632	2442105.58	1974 Feb 27 0200	MT-135P	-	MT135P-R149	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1633	2442119.59	1974 Mar 13 0204	MT-135P	-	MT135P-R150	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1634	2442126.58	1974 Mar 20 0200	MT-135P	-	MT135P-R160	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1635	2442133.58	1974 Mar 27 0200	MT-135P	-	MT135P-R151	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1636	2442141.58	1974 Apr 4 0200	MT-135P	-	MT135P-R152	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1637	2442147.59	1974 Apr 10 0209	MT-135P	-	MT135P-R153	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1638	2442154.59	1974 Apr 17 0205	MT-135P	-	MT135P-R154	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1639	2442161.58	1974 Apr 24 0200	MT-135P	-	MT135P-R155	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1640	2442168.58	1974 May 1 0200	MT-135P	-	MT135P-R156	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1641	2442175.58	1974 May 8 0200	MT-135P	-	MT135P-R158	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1642	2442183.58	1974 May 16 0200	MT-135P	-	MT135P-R157	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1643	2442189.59	1974 May 22 0210	MT-135P	-	MT135P-R159	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1644	2442211.60	1974 Jun 13 0230	MT-135P	-	MT135P-R161	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1645	2442224.58	1974 Jun 26 0200	MT-135P	-	MT135P-R162	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1646	2442245.59	1974 Jul 17 0205	MT-135P	-	MT135P-R163	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1647	2442252.60	1974 Jul 24 0220	MT-135P	-	MT135P-R164	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1648	2442266.58	1974 Aug 7 0200	MT-135P	-	MT135P-R165	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1649	2442280.58	1974 Aug 21 0200	MT-135P	-	MT135P-R166	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1650	2442287.59	1974 Aug 28 0205	MT-135P	-	MT135P-R167	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1119	2442293.56	1974 Sep 3 0130	MT-135P	-	MT135P T11	-	-	-	-	TNSC	T	-	-	50?	-	-
1974-W1120	2442293.75	1974 Sep 3 0600	MT-135P	-	MT135P T12	-	-	-	-	TNSC	T	-	-	50?	-	-
1974-W1651	2442294.59	1974 Sep 4 0210	MT-135P	-	MT135P-R169	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1652	2442301.58	1974 Sep 11 0200	MT-135P	-	MT135P-R170	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1653	2442308.60	1974 Sep 18 0230	MT-135P	-	MT135P-R168	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1654	2442322.58	1974 Oct 2 0200	MT-135P	-	MT135P-R171	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1655	2442329.58	1974 Oct 9 0200	MT-135P	-	MT135P-R172	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1656	2442336.58	1974 Oct 16 0200	MT-135P	-	MT135P-R173	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1657	2442350.58	1974 Oct 30 0200	MT-135P	-	MT135P-R174	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1658	2442357.58	1974 Nov 6 0200	MT-135P	-	MT135P-R175	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1659	2442364.58	1974 Nov 13 0200	MT-135P	-	MT135P-R176	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1660	2442371.58	1974 Nov 20 0200	MT-135P	-	MT135P-R177	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1661	2442378.58	1974 Nov 27 0202	MT-135P	-	MT135P-R178	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1662	2442385.58	1974 Dec 4 0200	MT-135P	-	MT135P-R179	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1663	2442392.58	1974 Dec 11 0200	MT-135P	-	MT135P-R180	-	-	-	-	RYO	-	-	-	60	-	-
1974-W1664	2442406.58	1974 Dec 25 0200	MT-135P	-	MT135P-R181	-	-	-	-	RYO	-	-	-	60	-	-
1975-W111	2442442.56	1975 Jan 30 0130	MT-135P	-	MT135P T13	-	-	-	-	TNSC	T	-	-	50?	-	-
1975-W146	2442450.54	1975 Feb 7 0100	MT-135P	-	MT135P T14	-	-	-	-	TNSC	T	-	-	50?	-	-
1975-W1009	2442665.56	1975 Sep 10 0130	MT-135P	-	MT135P T15	-	-	-	-	TNSC	T	-	-	50?	-	-
1976-W1346	2443044.56	1976 Sep 23 0130	MT-135P	-	MT135P T16	-	-	-	-	TNSC	T	-	-	50?	-	-
1976-W1362	2443046.56	1976 Sep 25 0130	MT-135P	-	MT135P T17	-	-	-	-	TNSC	T	-	-	50?	-	-
1977-W400	2443198.56	1977 Feb 24 0130	MT-135P	-	MT135P T18	-	-	-	-	TNSC	T	-	-	50?	-	-
1977-W1390	2443378.56	1977 Aug 23 0130	MT-135P	-	MT135P T19	-	-	-	-	TNSC	T	-	-	50?	-	-
1977-W1402	2443381.56	1977 Aug 26 0130	MT-135P	-	MT135P T20	-	-	-	-	TNSC	T	-	-	55	-	-
1978-W192	2443556.56	1978 Feb 17 0130	MT-135P	-	MT135P T21	-	-	-	-	TNSC	T	-	-	50?	-	-
1978-W881	2443744.57	1978 Aug 24 0145	MT-135P	-	MT135P T22	-	-	-	-	TNSC	T	-	-	50?	-	-
1978-W889	2443746.56	1978 Aug 26 0130	MT-135P	-	MT135P T23	-	-	-	-	TNSC	T	-	-	50?	-	-
1979-W1465	2443883.58	1979 Jan 10 0200	MT-135P	-	MT135P-R336	-	-	-	-	RYO	-	-	-	63	-	-
1979-W1466	2443890.59	1979 Jan 17 0210	MT-135P	-	MT135P-R337	-	-	-	-	RYO	-	-	-	64	-	-
1979-W1467	2443897.59	1979 Jan 24 0204	MT-135P	-	MT135P-R338	-	-	-	-	RYO	-	-	-	62	-	-
1979-W1468	2443904.59	1979 Jan 31 0207	MT-135P	-	MT135P-R339	-	-	-	-	RYO	-	-	-	63	-	-
1979-W201	2443911.56	1979 Feb 7 0130	MT-135P	-	MT135P T24	-	-	-	-	TNSC	T	-	-	50?	-	-
1979-W1469	2443911.58	1979 Feb 7 0200	MT-135P	-	MT135P-R340	-	-	-	-	RYO	-	-	-	60	-	-
1979-W1470	2443918.58	1979 Feb 14 0202	MT-135P	-	MT135P-R341	-	-	-	-	RYO	-	-	-	60	-	-
1979-W1471	2443925.58	1979 Feb 21 0200	MT-135P	-	MT135P-R342	-	-	-	-	RYO	-	-	-	63	-	-
1979-W1472	2443939.58	1979 Mar 7 0200	MT-135P	-	MT135P-R343	-	-	-	-	RYO	-	-	-	61	-	-
1979-W1473	2443946.58	1979 Mar 14 0200	MT-135P	-	MT135P-R344	-	-	-	-	RYO	-	-	-	64	-	-
1979-W1474	2443960.58	1979 Mar 28 0200	MT-135P	-	MT135P-R345	-	-	-	-	RYO	-	-	-	59	-	-
1979-W1475	2443974.59	1979 Apr 11 0204	MT-135P	-	MT135P-R346	-	-	-	-	RYO	-	-	-	64	-	-
1979-W1476	2443981.59	1979 Apr 18 0211	MT-135P	-	MT135P-R347	-	-	-	-	RYO	-	-	-	65	-	-
1979-W1477	2443988.58	1979 Apr 25 0200	MT-135P	-	MT135P-R348	-	-	-	-	RYO	-	-	-	65	-	-
1979-W1478	2444002.58	1979 May 9 0200	MT-135P	-	MT135P-R349	-	-	-	-	RYO	-	-	-	61	-	-
1979-W1479	2444009.59	1979 May 16 0215	MT-135P	-	MT135P-R350	-	-	-	-	RYO	-	-	-	60	-	-
1979-W1480	2444016.58	1979 May 23 0200	MT-135P	-	MT135P-R351	-	-	-	-	RYO	-	-	-	65	-	-
1979-W1481	2444023.58	1979 May 30 0200	MT-135P	-	MT135P-R352	-	-	-	-	RYO	-	-	-	61	-	-
1979-W1482	2444030.58	1979 Jun 6 0200	MT-135P	-	MT135P-R353	-	-	-	-	RYO	-	-	-	62	-	-
1979-W1483	2444044.58	1979 Jun 20 0200	MT-135P	-	MT135P-R354	-	-	-	-	RYO	-	-	-	64	-	-
1979-W843	2444058.58	1979 Jul 4 0200	MT-135P	-	MT135P-R355	-	-	-	-	RYO	-	-	-	64	-	-
1979-W902	2444072.58	1979 Jul 18 0200	MT-135P	-	MT135P-R356	-	-	-	-	RYO	-	-	-	59	-	-
1979-W952	2444086.58	1979 Aug 1 0200	MT-135P	-	MT135P-R357	-	-	-	-	RYO	-	-	-	62	-	-
1979-W997	2444100.58	1979 Aug 15 0200	MT-135P	-	MT135P-R358	-	-	-	-	RYO	-	-	-	61	-	-
1979-W1032	2444112.56	1979 Aug 27 0130	MT-135P	-	MT135P T25	-	-	-	-	TNSC	T	-	-	50?	-	-
1979-W1033	2444112.75	1979 Aug 27 0600	MT-135P	-	MT135P T26	-	-	-	-	TNSC	T	-	-	50?	-	-
1979-W1484	2444122.58	1979 Sep 6 0200	MT-135P	-	MT135P-R359	-	-	-	-	RYO	-	-	-	64	-	-
1979-W1086	2444128.59	1979 Sep 12 0203	MT-135P	-	MT135P-R360	-	-	-	-	RYO	-	-	-	59	-	-
1979-W1143	2444142.58	1979 Sep 26 0200:00	MT-135P	-	MT135P-R361	-	-	-	-	RYO	-	-	-	57	-	-
1979-W1172	2444149.58	1979 Oct 3 0200:00	MT-135P	-	MT135P-R362	-	-	-	-	RYO	-	-	-	59	-	-
1979-W1217	2444163.58	1979 Oct 17 0200:00	MT-135P	-	MT135P-R363	-	-	-	-	RYO	-	-	-	57	-	-
1979-W1249	2444170.58	1979 Oct 24 0200:00	MT-135P	-	MT135P-R364	-	-	-	-	RYO	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1310	2444184.59	1979 Nov 7 0214:00	MT-135P	-	MT135P-R365	-	-	-	-	RYO	-	-	-	59	-	-
1979-W1332	2444191.58	1979 Nov 14 0200:00	MT-135P	-	MT135P-R366	-	-	-	-	RYO	-	-	-	58	-	-
1979-W1485	2444205.58	1979 Nov 28 0200	MT-135P	-	MT135P-R367	-	-	-	-	RYO	-	-	-	57	-	-
1979-W1389	2444212.58	1979 Dec 5 0200:00	MT-135P	-	MT135P-R369	-	-	-	-	RYO	-	-	-	55	-	-
1979-W1404	2444219.58	1979 Dec 12 0200:00	MT-135P	-	MT135P-R368	-	-	-	-	RYO	-	-	-	57	-	-
1979-W1427	2444226.58	1979 Dec 19 0200:00	MT-135P	-	MT135P-R370	-	-	-	-	RYO	-	-	-	57	-	-
1979-W1452	2444233.58	1979 Dec 26 0201:00	MT-135P	-	MT135P-R371	-	-	-	-	RYO	-	-	-	54	-	-
1980-W28	2444247.58	1980 Jan 9 0200:00	MT-135P	-	MT135P-R372	-	-	-	-	RYO	-	-	-	54	-	-
1980-W52	2444254.58	1980 Jan 16 0200:00	MT-135P	-	MT135P-R373	-	-	-	-	RYO	-	-	-	54	-	-
1980-W75	2444261.58	1980 Jan 23 0200:00	MT-135P	-	MT135P-R374	-	-	-	-	RYO	-	-	-	53	-	-
1980-W137	2444282.58	1980 Feb 13 0200:00	MT-135P	-	MT135P-R375	-	-	-	-	RYO	-	-	-	55	-	-
1980-W164	2444289.58	1980 Feb 20 0200:00	MT-135P	-	MT135P-R376	-	-	-	-	RYO	-	-	-	57	-	-
1980-W176	2444292.58	1980 Feb 23 0155	MT-135P	-	MT135P T27	-	-	-	-	TNSC	T	-	-	55?	-	-
1980-W1149	2444296.58	1980 Feb 27 0200	MT-135P	-	MT135P-R377	-	-	-	-	RYO	-	-	-	60	-	-
1980-W223	2444303.58	1980 Mar 5 0202:00	MT-135P	-	MT135P-R378	-	-	-	-	RYO	-	-	-	53	-	-
1980-W1150	2444311.60	1980 Mar 13 0220	MT-135P	-	MT135P-R379	-	-	-	-	RYO	-	-	-	60	-	-
1980-W277	2444317.58	1980 Mar 19 0200:00	MT-135P	-	MT135P-R380	-	-	-	-	RYO	-	-	-	55	-	-
1980-W305	2444324.58	1980 Mar 26 0200:00	MT-135P	-	MT135P-R381	-	-	-	-	RYO	-	-	-	57	-	-
1980-W346	2444338.59	1980 Apr 9 0204:59	MT-135P	-	MT135P-R382	-	-	-	-	RYO	-	-	-	57	-	-
1980-W375	2444345.59	1980 Apr 16 0210:00	MT-135P	-	MT135P-R383	-	-	-	-	RYO	-	-	-	58	-	-
1980-W424	2444359.59	1980 Apr 30 0215:00	MT-135P	-	MT135P-R384	-	-	-	-	RYO	-	-	-	56	-	-
1980-W454	2444367.58	1980 May 8 0201:00	MT-135P	-	MT135P-R385	-	-	-	-	RYO	-	-	-	57	-	-
1980-W472	2444373.58	1980 May 14 0200:00	MT-135P	-	MT135P-R386	-	-	-	-	RYO	-	-	-	58	-	-
1980-W497	2444380.58	1980 May 21 0200:00	MT-135P	-	MT135P-R387	-	-	-	-	RYO	-	-	-	57	-	-
1980-W519	2444387.59	1980 May 28 0210:00	MT-135P	-	MT135P-R388	-	-	-	-	RYO	-	-	-	58	-	-
1980-W545	2444394.58	1980 Jun 4 0200:00	MT-135P	-	MT135P-R389	-	-	-	-	RYO	-	-	-	56	-	-
1980-W574	2444401.58	1980 Jun 11 0201:00	MT-135P	-	MT135P-R390	-	-	-	-	RYO	-	-	-	57	-	-
1980-W624	2444415.59	1980 Jun 25 0203:00	MT-135P	-	MT135P-R391	-	-	-	-	RYO	-	-	-	59	-	-
1980-W1151	2444429.60	1980 Jul 9 0228	MT-135P	-	MT135P-R392	-	-	-	-	RYO	-	-	-	60	-	-
1980-W701	2444443.58	1980 Jul 23 0200:00	MT-135P	-	MT135P-R393	-	-	-	-	RYO	-	-	-	53	-	-
1980-W744	2444457.58	1980 Aug 6 0200:00	MT-135P	-	MT135P-R394	-	-	-	-	RYO	-	-	-	58	-	-
1980-W786	2444471.58	1980 Aug 20 0201:00	MT-135P	-	MT135P-R395	-	-	-	-	RYO	-	-	-	59	-	-
1980-W821	2444485.58	1980 Sep 3 0200:00	MT-135P	-	MT135P-R396	-	-	-	-	RYO	-	-	-	58	-	-
1980-W862	2444495.56	1980 Sep 13 0130	MT-135P	-	MT135P T28	-	-	-	-	TNSC	T	-	-	50?	-	-
1980-W864	2444497.56	1980 Sep 15 0130	MT-135P	-	MT135P T29	-	-	-	-	TNSC	T	-	-	50?	-	-
1980-W874	2444499.58	1980 Sep 17 0200:00	MT-135P	-	MT135P-R397	-	-	-	-	RYO	-	-	-	58	-	-
1980-W920	2444513.59	1980 Oct 1 0213:00	MT-135P	-	MT135P-R398	-	-	-	-	RYO	-	-	-	55	-	-
1980-W943	2444520.59	1980 Oct 8 0204:59	MT-135P	-	MT135P-R399	-	-	-	-	RYO	-	-	-	58	-	-
1980-W983	2444534.59	1980 Oct 22 0210:00	MT-135P	-	MT135P-R400	-	-	-	-	RYO	-	-	-	58	-	-
1980-W1006	2444541.58	1980 Oct 29 0200:00	MT-135P	-	MT135P-R401	-	-	-	-	RYO	-	-	-	50	-	-
1980-W1034	2444555.58	1980 Nov 12 0200:00	MT-135P	-	MT135P-R402	-	-	-	-	RYO	-	-	-	57	-	-
1980-W1152	2444562.58	1980 Nov 19 0200	MT-135P	-	MT135P-R403	-	-	-	-	RYO	-	-	-	60	-	-
1980-W1069	2444569.58	1980 Nov 26 0200:00	MT-135P	-	MT135P-R404	-	-	-	-	RYO	-	-	-	56	-	-
1980-W1085	2444576.58	1980 Dec 3 0202:00	MT-135P	-	MT135P-R405	-	-	-	-	RYO	-	-	-	59	-	-
1980-W1104	2444583.58	1980 Dec 10 0200:00	MT-135P	-	MT135P-R406	-	-	-	-	RYO	-	-	-	52	-	-
1980-W1121	2444590.59	1980 Dec 17 0203:00	MT-135P	-	MT135P-R407	-	-	-	-	RYO	-	-	-	58	-	-
1981-W04	2444611.59	1981 Jan 7 0203:59	MT-135P	-	MT135P-R408	-	-	-	-	RYO	-	-	-	57	-	-
1981-W11	2444618.58	1981 Jan 14 0200:00	MT-135P	-	MT135P-R409	-	-	-	-	RYO	-	-	-	53	-	-
1981-W31	2444626.58	1981 Jan 22 0200:00	MT-135P	-	MT135P-R410	-	-	-	-	RYO	-	-	-	57	-	-
1981-W40	2444632.60	1981 Jan 28 0229:00	MT-135P	-	MT135P-R411	-	-	-	-	RYO	-	-	-	58	-	-
1981-W50	2444639.59	1981 Feb 4 0204:59	MT-135P	-	MT135P-R412	-	-	-	-	RYO	-	-	-	59	-	-
1981-W79	2444647.56	1981 Feb 12 0130	MT-135P	-	MT135P T30	-	-	-	-	TNSC	T	-	-	50?	-	-
1981-W90	2444653.58	1981 Feb 18 0200:00	MT-135P	-	MT135P-R413	-	-	-	-	RYO	-	-	-	57	-	-
1981-W120	2444661.58	1981 Feb 26 0200:00	MT-135P	-	MT135P-R414	-	-	-	-	RYO	-	-	-	61	-	-
1981-W159	2444674.58	1981 Mar 11 0201:00	MT-135P	-	MT135P-R415	-	-	-	-	RYO	-	-	-	56	-	-
1981-W175	2444681.59	1981 Mar 18 0203:59	MT-135P	-	MT135P-R416	-	-	-	-	RYO	-	-	-	58	-	-
1981-W198	2444689.59	1981 Mar 26 0203:59	MT-135P	-	MT135P-R417	-	-	-	-	RYO	-	-	-	52	-	-
1981-W232	2444702.58	1981 Apr 8 0200:00	MT-135P	-	MT135P-R418	-	-	-	-	RYO	-	-	-	55	-	-
1981-W277	2444709.58	1981 Apr 15 0200:00	MT-135P	-	MT135P-R419	-	-	-	-	RYO	-	-	-	56	-	-
1981-W288	2444716.59	1981 Apr 22 0203:59	MT-135P	-	MT135P-R420	-	-	-	-	RYO	-	-	-	56	-	-
1981-W308	2444723.58	1981 Apr 29 0200:00	MT-135P	-	MT135P-R421	-	-	-	-	RYO	-	-	-	55	-	-
1981-W337	2444737.59	1981 May 13 0215:59	MT-135P	-	MT135P-R422	-	-	-	-	RYO	-	-	-	58	-	-
1981-W354	2444744.58	1981 May 20 0200:00	MT-135P	-	MT135P-R423	-	-	-	-	RYO	-	-	-	56	-	-
1981-W372	2444751.59	1981 May 27 0203:00	MT-135P	-	MT135P-R424	-	-	-	-	RYO	-	-	-	57	-	-
1981-W412	2444765.58	1981 Jun 10 0200:00	MT-135P	-	MT135P-R425	-	-	-	-	RYO	-	-	-	55	-	-
1981-W442	2444779.58	1981 Jun 24 0200:00	MT-135P	-	MT135P-R426	-	-	-	-	RYO	-	-	-	54	-	-
1981-W474	2444793.58	1981 Jul 8 0200:00	MT-135P	-	MT135P-R427	-	-	-	-	RYO	-	-	-	57	-	-
1981-W503	2444808.58	1981 Jul 23 0200:00	MT-135P	-	MT135P-R428	-	-	-	-	RYO	-	-	-	53	-	-
1981-W534	2444822.59	1981 Aug 6 0207:00	MT-135P	-	MT135P-R429	-	-	-	-	RYO	-	-	-	54	-	-
1981-W558	2444836.58	1981 Aug 20 0200:00	MT-135P	-	MT135P-R430	-	-	-	-	RYO	-	-	-	54	-	-
1981-W579	2444849.60	1981 Sep 2 0220:00	MT-135P	-	MT135P-R431	-	-	-	-	RYO	-	-	-	56	-	-
1981-W828	2444864.58	1981 Sep 17 0200	MT-135P	-	MT135P-R432	-	-	-	-	RYO	-	-	-	60	-	-
1981-W641	2444877.58	1981 Sep 30 0200:00	MT-135P	-	MT135P-R433	-	-	-	-	RYO	-	-	-	54	-	-
1981-W663	2444884.58	1981 Oct 7 0200:00	MT-135P	-	MT135P-R434	-	-	-	-	RYO	-	-	-	51	-	-
1981-W829	2444898.58	1981 Oct 21 0200	MT-135P	-	MT135P-R435	-	-	-	-	RYO	-	-	-	60	-	-
1981-W696	2444905.58	1981 Oct 28 0200:00	MT-135P	-	MT135P-R436	-	-	-	-	RYO	-	-	-	54	-	-
1981-W723	2444919.58	1981 Nov 11 0202:00	MT-135P	-	MT135P-R437	-	-	-	-	RYO	-	-	-	52	-	-
1981-W756	2444927.58	1981 Nov 19 0200:00	MT-135P	-	MT135P-R438	-	-	-	-	RYO	-	-	-	56	-	-
1981-W766	2444933.59	1981 Nov 25 0204:59	MT-135P	-	MT135P-R439	-	-	-	-	RYO	-	-	-	55	-	-
1981-W782	2444941.58	1981 Dec 3 0200:00	MT-135P	-	MT135P-R440	-	-	-	-	RYO	-	-	-	58	-	-
1981-W794	2444947.59	1981 Dec 9 0204:59	MT-135P	-	MT135P-R441	-	-	-	-	RYO	-	-	-	56	-	-
1981-W808	2444954.58	1981 Dec 16 0200:00	MT-135P	-	MT135P-R442	-	-	-	-	RYO	-	-	-	54	-	-
1981-W821	2444961.58	1981 Dec 23 0200:00	MT-135P	-	MT135P-R443	-	-	-	-	RYO	-	-	-	55	-	-
1982-W06	2444975.58	1982 Jan 6 0200:00	MT-135P	-	MT135P-R444	-	-	-	-	RYO	-	-	-	57	-	-
1982-W20	2444982.58	1982 Jan 13 0200:00	MT-135P	-	MT135P-R445	-	-	-	-	RYO	-	-	-	53	-	-
1982-W47	2444990.58	1982 Jan 21 0200:00	MT-135P	-	MT135P-R446	-	-	-	-	RYO	-	-	-	52	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W64	2444996.58	1982 Jan 27 0200:00	MT-135P	-	MT135P-R447	-	-	-	-	RYO	-	-	-	55	-	-
1982-W86	2445002.56	1982 Feb 2 0130	MT-135P	-	MT135P T31	-	-	-	-	TNSC	T	-	-	50?	-	-
1982-W88	2445003.56	1982 Feb 3 0130	MT-135P	-	MT135P T32	-	-	-	-	TNSC	T	-	-	50?	-	-
1982-W89	2445003.59	1982 Feb 3 0215:59	MT-135P	-	MT135P-R448	-	-	-	-	RYO	-	-	-	56	-	-
1982-W121	2445017.58	1982 Feb 17 0200:00	MT-135P	-	MT135P-R449	-	-	-	-	RYO	-	-	-	55	-	-
1982-A04	2445024.58	1982 Feb 24 0200:00	MT-135P	-	MT135P-R450	-	-	-	-	RYO	-	-	-	45	-	-
1982-A06	2445038.58	1982 Mar 10 0201:00	MT-135P	-	MT135P-R451	-	-	-	-	RYO	-	-	-	24	-	-
1982-A08	2445045.60	1982 Mar 17 0220:00	MT-135P	-	MT135P-R452	-	-	-	-	RYO	-	-	-	49	-	-
1982-W200	2445052.58	1982 Mar 24 0201:00	MT-135P	-	MT135P-R453	-	-	-	-	RYO	-	-	-	58	-	-
1982-W236	2445066.58	1982 Apr 7 0200:00	MT-135P	-	MT135P-R454	-	-	-	-	RYO	-	-	-	53	-	-
1982-W243	2445073.58	1982 Apr 14 0202:00	MT-135P	-	MT135P-R455	-	-	-	-	RYO	-	-	-	55	-	-
1982-W258	2445080.58	1982 Apr 21 0200:00	MT-135P	-	MT135P-R456	-	-	-	-	RYO	-	-	-	55	-	-
1982-W515	2445087.58	1982 Apr 28 0200	MT-135P	-	MT135P-R457	-	-	-	-	RYO	-	-	-	60	-	-
1982-W285	2445101.58	1982 May 12 0200:00	MT-135P	-	MT135P-R458	-	-	-	-	RYO	-	-	-	54	-	-
1982-A12	2445108.58	1982 May 19 0200:00	MT-135P	-	MT135P-R459	-	-	-	-	RYO	-	-	-	43	-	-
1982-W302	2445115.58	1982 May 26 0200:00	MT-135P	-	MT135P-R460	-	-	-	-	RYO	-	-	-	53	-	-
1982-W313	2445122.58	1982 Jun 2 0202:00	MT-135P	-	MT135P-R461	-	-	-	-	RYO	-	-	-	57	-	-
1982-W322	2445129.58	1982 Jun 9 0202:00	MT-135P	-	MT135P-R462	-	-	-	-	RYO	-	-	-	56	-	-
1982-W331	2445143.58	1982 Jun 23 0200:00	MT-135P	-	MT135P-R463	-	-	-	-	RYO	-	-	-	56	-	-
1982-W355	2445157.58	1982 Jul 7 0200:00	MT-135P	-	MT135P-R464	-	-	-	-	RYO	-	-	-	56	-	-
1982-W371	2445171.60	1982 Jul 21 0225:00	MT-135P	-	MT135P-R465	-	-	-	-	RYO	-	-	-	53	-	-
1982-W378	2445186.58	1982 Aug 5 0200:00	MT-135P	-	MT135P-R466	-	-	-	-	RYO	-	-	-	55	-	-
1982-W384	2445199.59	1982 Aug 18 0212:00	MT-135P	-	MT135P-R467	-	-	-	-	RYO	-	-	-	54	-	-
1982-W396	2445213.58	1982 Sep 1 0200:00	MT-135P	-	MT135P-R468	-	-	-	-	RYO	-	-	-	55	-	-
1982-W401	2445217.56	1982 Sep 5 0130	MT-135P	-	MT135P T33	-	-	-	-	TNSC	T	-	-	50?	-	-
1982-W403	2445220.58	1982 Sep 8 0200:00	MT-135P	-	MT135P-R469	-	-	-	-	RYO	-	-	-	56	-	-
1982-W406	2445227.58	1982 Sep 15 0200:00	MT-135P	-	MT135P-R470	-	-	-	-	RYO	-	-	-	55	-	-
1982-W418	2445241.58	1982 Sep 29 0200:00	MT-135P	-	MT135P-R471	-	-	-	-	RYO	-	-	-	57	-	-
1982-W427	2445249.58	1982 Oct 7 0200:00	MT-135P	-	MT135P-R472	-	-	-	-	RYO	-	-	-	55	-	-
1982-W435	2445263.58	1982 Oct 21 0200:00	MT-135P	-	MT135P-R473	-	-	-	-	RYO	-	-	-	56	-	-
1982-W438	2445269.58	1982 Oct 27 0200:00	MT-135P	-	MT135P-R474	-	-	-	-	RYO	-	-	-	56	-	-
1982-W449	2445283.58	1982 Nov 10 0200:00	MT-135P	-	MT135P-R475	-	-	-	-	RYO	-	-	-	57	-	-
1982-W473	2445291.58	1982 Nov 18 0200:00	MT-135P	-	MT135P-R476	-	-	-	-	RYO	-	-	-	54	-	-
1982-W488	2445305.58	1982 Dec 2 0200:00	MT-135P	-	MT135P-R477	-	-	-	-	RYO	-	-	-	55	-	-
1982-W494	2445311.58	1982 Dec 8 0200:00	MT-135P	-	MT135P-R478	-	-	-	-	RYO	-	-	-	53	-	-
1982-W500	2445318.58	1982 Dec 15 0200:00	MT-135P	-	MT135P-R479	-	-	-	-	RYO	-	-	-	56	-	-
1982-W510	2445332.58	1982 Dec 29 0200:00	MT-135P	-	MT135P-R480	-	-	-	-	RYO	-	-	-	55	-	-
1983-W07	2445346.58	1983 Jan 12 0200:00	MT-135P	-	MT135P-R481	-	-	-	-	RYO	-	-	-	55	-	-
1983-W14	2445353.58	1983 Jan 19 0200:00	MT-135P	-	MT135P-R482	-	-	-	-	RYO	-	-	-	54	-	-
1983-W21	2445360.60	1983 Jan 26 0218:00	MT-135P	-	MT135P-R483	-	-	-	-	RYO	-	-	-	57	-	-
1983-W26	2445368.58	1983 Feb 3 0200:00	MT-135P	-	MT135P-R484	-	-	-	-	RYO	-	-	-	58	-	-
1983-W36	2445381.58	1983 Feb 16 0201:00	MT-135P	-	MT135P-R485	-	-	-	-	RYO	-	-	-	54	-	-
1983-W45	2445388.58	1983 Feb 23 0200:00	MT-135P	-	MT135P-R486	-	-	-	-	RYO	-	-	-	56	-	-
1983-W65	2445402.58	1983 Mar 9 0200:00	MT-135P	-	MT135P-R487	-	-	-	-	RYO	-	-	-	53	-	-
1983-W80	2445409.58	1983 Mar 16 0200:00	MT-135P	-	MT135P-R488	-	-	-	-	RYO	-	-	-	54	-	-
1983-W90	2445416.58	1983 Mar 23 0200:00	MT-135P	-	MT135P-R489	-	-	-	-	RYO	-	-	-	54	-	-
1983-W106	2445430.58	1983 Apr 6 0200:00	MT-135P	-	MT135P-R490	-	-	-	-	RYO	-	-	-	57	-	-
1983-W120	2445437.58	1983 Apr 13 0200:00	MT-135P	-	MT135P-R491	-	-	-	-	RYO	-	-	-	56	-	-
1983-W125	2445444.58	1983 Apr 20 0200:00	MT-135P	-	MT135P-R492	-	-	-	-	RYO	-	-	-	59	-	-
1983-W131	2445451.58	1983 Apr 27 0200:00	MT-135P	-	MT135P-R493	-	-	-	-	RYO	-	-	-	57	-	-
1983-W146	2445465.58	1983 May 11 0200:00	MT-135P	-	MT135P-R494	-	-	-	-	RYO	-	-	-	55	-	-
1983-W159	2445472.58	1983 May 18 0200:00	MT-135P	-	MT135P-R495	-	-	-	-	RYO	-	-	-	57	-	-
1983-W171	2445480.58	1983 May 26 0200:00	MT-135P	-	MT135P-R496	-	-	-	-	RYO	-	-	-	55	-	-
1983-W174	2445486.59	1983 Jun 1 0215:00	MT-135P	-	MT135P-R497	-	-	-	-	RYO	-	-	-	57	-	-
1983-W187	2445500.59	1983 Jun 15 0203:59	MT-135P	-	MT135P-R498	-	-	-	-	RYO	-	-	-	59	-	-
1983-W204	2445514.59	1983 Jun 29 0204:59	MT-135P	-	MT135P-R499	-	-	-	-	RYO	-	-	-	57	-	-
1983-W213	2445529.58	1983 Jul 14 0200:00	MT-135P	-	MT135P-R500	-	-	-	-	RYO	-	-	-	56	-	-
1983-W222	2445542.58	1983 Jul 27 0200:00	MT-135P	-	MT135P-R501	-	-	-	-	RYO	-	-	-	59	-	-
1983-W232	2445556.58	1983 Aug 10 0200:00	MT-135P	-	MT135P-R502	-	-	-	-	RYO	-	-	-	55	-	-
1983-W243	2445571.60	1983 Aug 25 0230:00	MT-135P	-	MT135P-R503	-	-	-	-	RYO	-	-	-	55	-	-
1983-W261	2445584.59	1983 Sep 7 0215:00	MT-135P	-	MT135P-R504	-	-	-	-	RYO	-	-	-	56	-	-
1983-W266	2445591.58	1983 Sep 14 0200:00	MT-135P	-	MT135P-R505	-	-	-	-	RYO	-	-	-	50	-	-
1983-W384	2445605.58	1983 Sep 28 0200	MT-135P	-	MT135P-R506	-	-	-	-	RYO	-	-	-	60	-	-
1983-W290	2445619.58	1983 Oct 12 0200:00	MT-135P	-	MT135P-R507	-	-	-	-	RYO	-	-	-	51	-	-
1983-W294	2445626.58	1983 Oct 19 0200:00	MT-135P	-	MT135P-R508	-	-	-	-	RYO	-	-	-	52	-	-
1983-W299	2445633.58	1983 Oct 26 0200:00	MT-135P	-	MT135P-R509	-	-	-	-	RYO	-	-	-	57	-	-
1983-W306	2445640.58	1983 Nov 2 0200:00	MT-135P	-	MT135P-R510	-	-	-	-	RYO	-	-	-	56	-	-
1983-W317	2445654.58	1983 Nov 16 0200:00	MT-135P	-	MT135P-R511	-	-	-	-	RYO	-	-	-	53	-	-
1983-W330	2445668.58	1983 Nov 30 0200:00	MT-135P	-	MT135P-R512	-	-	-	-	RYO	-	-	-	53	-	-
1983-W343	2445675.58	1983 Dec 7 0200:00	MT-135P	-	MT135P-R513	-	-	-	-	RYO	-	-	-	56	-	-
1983-W364	2445682.59	1983 Dec 14 0203:59	MT-135P	-	MT135P-R514	-	-	-	-	RYO	-	-	-	56	-	-
1983-W372	2445689.59	1983 Dec 21 0203:00	MT-135P	-	MT135P-R515	-	-	-	-	RYO	-	-	-	56	-	-
1983-W379	2445696.58	1983 Dec 28 0200:00	MT-135P	-	MT135P-R516	-	-	-	-	RYO	-	-	-	56	-	-
1984-W11	2445710.59	1984 Jan 11 0203:59	MT-135P	-	MT135P-R517	-	-	-	-	RYO	-	-	-	56	-	-
1984-W26	2445718.58	1984 Jan 19 0200:00	MT-135P	-	MT135P-R518	-	-	-	-	RYO	-	-	-	55	-	-
1984-W35	2445724.58	1984 Jan 25 0200:00	MT-135P	-	MT135P-R519	-	-	-	-	RYO	-	-	-	57	-	-
1984-W54	2445738.58	1984 Feb 8 0201:00	MT-135P	-	MT135P-R520	-	-	-	-	RYO	-	-	-	58	-	-
1984-W75	2445745.58	1984 Feb 15 0201:00	MT-135P	-	MT135P-R521	-	-	-	-	RYO	-	-	-	54	-	-
1984-W87	2445752.58	1984 Feb 22 0202:00	MT-135P	-	MT135P-R522	-	-	-	-	RYO	-	-	-	54	-	-
1984-W101	2445766.58	1984 Mar 7 0200:00	MT-135P	-	MT135P-R523	-	-	-	-	RYO	-	-	-	55	-	-
1984-W105	2445773.58	1984 Mar 14 0200:00	MT-135P	-	MT135P-R524	-	-	-	-	RYO	-	-	-	53	-	-
1984-W120	2445787.58	1984 Mar 28 0200:00	MT-135P	-	MT135P-R525	-	-	-	-	RYO	-	-	-	56	-	-
1984-W142	2445801.58	1984 Apr 11 0202:00	MT-135P	-	MT135P-R526	-	-	-	-	RYO	-	-	-	56	-	-
1984-A16	2445808.59	1984 Apr 18 0210:00	MT-135P	-	MT135P-R527	-	-	-	-	RYO	-	-	-	49	-	-
1984-W162	2445815.58	1984 Apr 25 0200:00	MT-135P	-	MT135P-R528	-	-	-	-	RYO	-	-	-	55	-	-
1984-W177	2445829.58	1984 May 9 0202:00	MT-135P	-	MT135P-R529	-	-	-	-	RYO	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W181	2445836.58	1984 May 16 0200:00	MT-135P	-	MT135P-R530	-	-	-	-	RYO	-	-	-	52	-	-
1984-W186	2445843.58	1984 May 23 0200:00	MT-135P	-	MT135P-R531	-	-	-	-	RYO	-	-	-	51	-	-
1984-W190	2445850.59	1984 May 30 0203:00	MT-135P	-	MT135P-R532	-	-	-	-	RYO	-	-	-	51	-	-
1984-W200	2445864.58	1984 Jun 13 0200:00	MT-135P	-	MT135P-R533	-	-	-	-	RYO	-	-	-	53	-	-
1984-W207	2445871.58	1984 Jun 20 0200:00	MT-135P	-	MT135P-R534	-	-	-	-	RYO	-	-	-	55	-	-
1984-W221	2445885.58	1984 Jul 4 0200:00	MT-135P	-	MT135P-R535	-	-	-	-	RYO	-	-	-	54	-	-
1984-W233	2445899.58	1984 Jul 18 0200:00	MT-135P	-	MT135P-R536	-	-	-	-	RYO	-	-	-	53	-	-
1984-W242	2445913.58	1984 Aug 1 0200:00	MT-135P	-	MT135P-R537	-	-	-	-	RYO	-	-	-	52	-	-
1984-W447	2445927.60	1984 Aug 15 0220	MT-135P	-	MT135P-R538	-	-	-	-	RYO	-	-	-	60	-	-
1984-W268	2445941.58	1984 Aug 29 0200:00	MT-135P	-	MT135P-R539	-	-	-	-	RYO	-	-	-	53	-	-
1984-W293	2445949.58	1984 Sep 6 0200:00	MT-135P	-	MT135P-R540	-	-	-	-	RYO	-	-	-	55	-	-
1984-W304	2445962.58	1984 Sep 19 0200:00	MT-135P	-	MT135P-R541	-	-	-	-	RYO	-	-	-	54	-	-
1984-W329	2445983.58	1984 Oct 10 0200:00	MT-135P	-	MT135P-R542	-	-	-	-	RYO	-	-	-	55	-	-
1984-W347	2445991.58	1984 Oct 18 0200:00	MT-135P	-	MT135P-R543	-	-	-	-	RYO	-	-	-	55	-	-
1984-W351	2445997.58	1984 Oct 24 0201:00	MT-135P	-	MT135P-R544	-	-	-	-	RYO	-	-	-	56	-	-
1984-W360	2446004.58	1984 Oct 31 0201:00	MT-135P	-	MT135P-R545	-	-	-	-	RYO	-	-	-	55	-	-
1984-W369	2446011.58	1984 Nov 7 0200:00	MT-135P	-	MT135P-R546	-	-	-	-	RYO	-	-	-	56	-	-
1984-W386	2446018.58	1984 Nov 14 0200:00	MT-135P	-	MT135P-R547	-	-	-	-	RYO	-	-	-	55	-	-
1984-W406	2446025.59	1984 Nov 21 0204:59	MT-135P	-	MT135P-R548	-	-	-	-	RYO	-	-	-	52	-	-
1984-W420	2446039.59	1984 Dec 5 0204:59	MT-135P	-	MT135P-R549	-	-	-	-	RYO	-	-	-	54	-	-
1984-W428	2446046.60	1984 Dec 12 0220:00	MT-135P	-	MT135P-R550	-	-	-	-	RYO	-	-	-	56	-	-
1984-W438	2446053.58	1984 Dec 19 0200:00	MT-135P	-	MT135P-R551	-	-	-	-	RYO	-	-	-	54	-	-
1985-W06	2446074.59	1985 Jan 9 0204:59	MT-135P	-	MT135P-R552	-	-	-	-	RYO	-	-	-	53	-	-
1985-W13	2446081.58	1985 Jan 16 0200:00	MT-135P	-	MT135P-R553	-	-	-	-	RYO	-	-	-	57	-	-
1985-W23	2446088.58	1985 Jan 23 0202:00	MT-135P	-	MT135P-R554	-	-	-	-	RYO	-	-	-	56	-	-
1985-W354	2446096.08	1985 Jan 30 1400	MT-135JA	-	MT135JA-1	-	-	-	-	SYW	-	-	-	60?	-	-
1985-W43	2446102.58	1985 Feb 6 0200:00	MT-135P	-	MT135P-R555	-	-	-	-	RYO	-	-	-	55	-	-
1985-W54	2446109.58	1985 Feb 13 0200:00	MT-135P	-	MT135P-R556	-	-	-	-	RYO	-	-	-	54	-	-
1985-W66	2446117.58	1985 Feb 21 0200:00	MT-135P	-	MT135P-R557	-	-	-	-	RYO	-	-	-	58	-	-
1985-W69	2446123.58	1985 Feb 27 0200:00	MT-135P	-	MT135P-R558	-	-	-	-	RYO	-	-	-	56	-	-
1985-W349	2446130.59	1985 Mar 6 0205	MT-135P	-	MT135P-R559	-	-	-	-	RYO	-	-	-	60	-	-
1985-W80	2446138.58	1985 Mar 14 0200:00	MT-135P	-	MT135P-R560	-	-	-	-	RYO	-	-	-	55	-	-
1985-W355	2446151.10	1985 Mar 26 1430	MT-135JA	-	MT135JA-2	-	-	-	-	SYW	-	-	-	60	-	-
1985-W89	2446151.58	1985 Mar 27 0200:00	MT-135P	-	MT135P-R561	-	-	-	-	RYO	-	-	-	57	-	-
1985-W350	2446165.58	1985 Apr 10 0200	MT-135P	-	MT135P-R562	-	-	-	-	RYO	-	-	-	60	-	-
1985-W110	2446172.58	1985 Apr 17 0200:00	MT-135P	-	MT135P-R563	-	-	-	-	RYO	-	-	-	55	-	-
1985-W125	2446179.58	1985 Apr 24 0200:00	MT-135P	-	MT135P-R564	-	-	-	-	RYO	-	-	-	56	-	-
1985-W151	2446193.58	1985 May 8 0200:00	MT-135P	-	MT135P-R565	-	-	-	-	RYO	-	-	-	55	-	-
1985-W153	2446200.58	1985 May 15 0200:00	MT-135P	-	MT135P-R566	-	-	-	-	RYO	-	-	-	56	-	-
1985-W163	2446207.58	1985 May 22 0200:00	MT-135P	-	MT135P-R567	-	-	-	-	RYO	-	-	-	59	-	-
1985-W170	2446215.58	1985 May 30 0200:00	MT-135P	-	MT135P-R568	-	-	-	-	RYO	-	-	-	59	-	-
1985-W178	2446228.59	1985 Jun 12 0203:00	MT-135P	-	MT135P-R569	-	-	-	-	RYO	-	-	-	55	-	-
1985-W190	2446236.58	1985 Jun 20 0200:00	MT-135P	-	MT135P-R570	-	-	-	-	RYO	-	-	-	56	-	-
1985-W356	2446245.07	1985 Jun 28 1335	MT-135JA	-	MT135JA-3	-	-	-	-	SYW	-	-	-	61	-	-
1985-W357	2446245.18	1985 Jun 28 1616	MT-135JA	-	MT135JA-5	-	-	-	-	SYW	-	-	-	71	-	-
1985-W358	2446245.26	1985 Jun 28 1810	MT-135JA	-	MT135JA-6	-	-	-	-	SYW	-	-	-	73	-	-
1985-W359	2446245.33	1985 Jun 28 2002	MT-135JA	-	MT135JA-7	-	-	-	-	SYW	-	-	-	69	-	-
1985-W360	2446245.42	1985 Jun 28 2158	MT-135JA	-	MT135JA-4	-	-	-	-	SYW	-	-	-	69	-	-
1985-W198	2446249.58	1985 Jul 3 0200:00	MT-135P	-	MT135P-R571	-	-	-	-	RYO	-	-	-	57	-	-
1985-W209	2446263.58	1985 Jul 17 0200:00	MT-135P	-	MT135P-R572	-	-	-	-	RYO	-	-	-	61	-	-
1985-W219	2446277.58	1985 Jul 31 0200:00	MT-135P	-	MT135P-R573	-	-	-	-	RYO	-	-	-	57	-	-
1985-W351	2446291.59	1985 Aug 14 0203	MT-135P	-	MT135P-R574	-	-	-	-	RYO	-	-	-	60	-	-
1985-W352	2446298.58	1985 Aug 21 0200	MT-135P	-	MT135P-R575	-	-	-	-	RYO	-	-	-	60	-	-
1985-W353	2446305.58	1985 Aug 28 0200	MT-135P	-	MT135P-R576	-	-	-	-	RYO	-	-	-	60	-	-
1985-W239	2446319.58	1985 Sep 11 0201:00	MT-135P	-	MT135P-R577	-	-	-	-	RYO	-	-	-	57	-	-
1985-W365	2446319.60	1985 Sep 11 0225	MT-135	-	MT-135-44	SONDE	-	-	-	KASC	-	-	-	63	-	-
1985-W248	2446327.58	1985 Sep 19 0200:00	MT-135P	-	MT135P-R578	-	-	-	-	RYO	-	-	-	59	-	-
1985-W361	2446334.08	1985 Sep 25 1400	MT-135JA	-	MT135JA-9	-	-	-	-	SYW	-	-	-	71	-	-
1985-W362	2446334.17	1985 Sep 25 1600	MT-135JA	-	MT135JA-8	-	-	-	-	SYW	-	-	-	71	-	-
1985-W363	2446334.25	1985 Sep 25 1800	MT-135JA	-	MT135JA-11	-	-	-	-	SYW	-	-	-	72	-	-
1985-W364	2446334.33	1985 Sep 25 2000	MT-135JA	-	MT135JA-10	-	-	-	-	SYW	-	-	-	73	-	-
1985-W257	2446340.58	1985 Oct 2 0200:00	MT-135P	-	MT135P-R579	-	-	-	-	RYO	-	-	-	51	-	-
1985-W265	2446354.58	1985 Oct 16 0200:00	MT-135P	-	MT135P-R580	-	-	-	-	RYO	-	-	-	54	-	-
1985-W282	2446369.58	1985 Oct 31 0200:00	MT-135P	-	MT135P-R581	-	-	-	-	RYO	-	-	-	54	-	-
1985-A10	2446375.59	1985 Nov 6 0203:00	MT-135P	-	MT135P-R582	-	-	-	-	RYO	-	-	-	46	-	-
1985-W295	2446382.58	1985 Nov 13 0200:00	MT-135P	-	MT135P-R583	-	-	-	-	RYO	-	-	-	58	-	-
1985-W298	2446389.58	1985 Nov 20 0200:00	MT-135P	-	MT135P-R584	-	-	-	-	RYO	-	-	-	54	-	-
1985-W321	2446404.58	1985 Dec 5 0201:00	MT-135P	-	MT135P-R585	-	-	-	-	RYO	-	-	-	55	-	-
1985-W330	2446410.59	1985 Dec 11 0204:59	MT-135P	-	MT135P-R586	-	-	-	-	RYO	-	-	-	55	-	-
1985-W341	2446417.59	1985 Dec 18 0204:59	MT-135P	-	MT135P-R587	-	-	-	-	RYO	-	-	-	57	-	-
1985-W347	2446424.58	1985 Dec 25 0200:00	MT-135P	-	MT135P-R588	-	-	-	-	RYO	-	-	-	59	-	-
1986-W05	2446438.58	1986 Jan 8 0200:00	MT-135P	-	MT135P-R589	-	-	-	-	RYO	-	-	-	57	-	-
1986-W13	2446446.58	1986 Jan 16 0200:00	MT-135P	-	MT135P-R590	-	-	-	-	RYO	-	-	-	56	-	-
1986-W17	2446452.58	1986 Jan 22 0200:00	MT-135P	-	MT135P-R591	-	-	-	-	RYO	-	-	-	57	-	-
1986-W25	2446466.58	1986 Feb 5 0200:00	MT-135P	-	MT135P-R592	-	-	-	-	RYO	-	-	-	57	-	-
1986-W30	2446473.58	1986 Feb 12 0200:00	MT-135P	-	MT135P-R593	-	-	-	-	RYO	-	-	-	53	-	-
1986-W230	2446481.58	1986 Feb 20 0200	MT-135P	-	MT135P-R594	-	-	-	-	RYO	-	-	-	60	-	-
1986-W49	2446494.58	1986 Mar 5 0200:00	MT-135P	-	MT135P-R595	-	-	-	-	RYO	-	-	-	52	-	-
1986-W56	2446501.58	1986 Mar 12 0200:00	MT-135P	-	MT135P-R596	-	-	-	-	RYO	-	-	-	56	-	-
1986-W66	2446515.58	1986 Mar 26 0200:00	MT-135P	-	MT135P-R597	-	-	-	-	RYO	-	-	-	56	-	-
1986-W231	2446530.58	1986 Apr 10 0200	MT-135P	-	MT135P-R598	-	-	-	-	RYO	-	-	-	60	-	-
1986-W76	2446537.59	1986 Apr 17 0204:59	MT-135P	-	MT135P-R599	-	-	-	-	RYO	-	-	-	57	-	-
1986-W80	2446544.58	1986 Apr 24 0200:00	MT-135P	-	MT135P-R600	-	-	-	-	RYO	-	-	-	57	-	-
1986-W93	2446558.58	1986 May 8 0200:00	MT-135P	-	MT135P-R601	-	-	-	-	RYO	-	-	-	59	-	-
1986-W97	2446564.58	1986 May 14 0200:00	MT-135P	-	MT135P-R602	-	-	-	-	RYO	-	-	-	54	-	-
1986-W98	2446571.58	1986 May 21 0200:00	MT-135P	-	MT135P-R603	-	-	-	-	RYO	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-W103	2446578.58	1986 May 28 0200:00	MT-135P	-	MT135P-R604	-	-	-	-	RYO	-	-	-	56	-	-
1986-W106	2446592.58	1986 Jun 11 0200:00	MT-135P	-	MT135P-R605	-	-	-	-	RYO	-	-	-	56	-	-
1986-W114	2446606.58	1986 Jun 25 0200:00	MT-135P	-	MT135P-R606	-	-	-	-	RYO	-	-	-	52	-	-
1986-W118	2446613.58	1986 Jul 2 0200:00	MT-135P	-	MT135P-R607	-	-	-	-	RYO	-	-	-	56	-	-
1986-W124	2446627.58	1986 Jul 16 0201:00	MT-135P	-	MT135P-R608	-	-	-	-	RYO	-	-	-	58	-	-
1986-W127	2446635.58	1986 Jul 24 0200:00	MT-135P	-	MT135P-R609	-	-	-	-	RYO	-	-	-	56	-	-
1986-W136	2446648.58	1986 Aug 6 0200:00	MT-135P	-	MT135P-R610	-	-	-	-	RYO	-	-	-	56	-	-
1986-W140	2446662.58	1986 Aug 20 0200:00	MT-135P	-	MT135P-R611	-	-	-	-	RYO	-	-	-	54	-	-
1986-W228	2446662.60	1986 Aug 20 0220	MT-135	-	MT-135-45	SONDE	-	-	-	KASC	-	-	-	58	-	-
1986-W229	2446662.67	1986 Aug 20 0400	MT-135	-	MT-135-46	SONDE	-	-	-	KASC	-	-	-	60?	-	-
1986-W148	2446669.58	1986 Aug 27 0200:00	MT-135P	-	MT135P-R612	-	-	-	-	RYO	-	-	-	52	-	-
1986-W154	2446683.58	1986 Sep 10 0200:00	MT-135P	-	MT135P-R613	-	-	-	-	RYO	-	-	-	54	-	-
1986-W166	2446697.58	1986 Sep 24 0202:00	MT-135P	-	MT135P-R614	-	-	-	-	RYO	-	-	-	54	-	-
1986-W232	2446711.58	1986 Oct 8 0200	MT-135P	-	MT135P-R615	-	-	-	-	RYO	-	-	-	60	-	-
1986-W186	2446718.58	1986 Oct 15 0200:00	MT-135P	-	MT135P-R616	-	-	-	-	RYO	-	-	-	54	-	-
1986-W193	2446726.58	1986 Oct 23 0200:00	MT-135P	-	MT135P-R617	-	-	-	-	RYO	-	-	-	54	-	-
1986-W195	2446732.59	1986 Oct 29 0210:00	MT-135P	-	MT135P-R618	-	-	-	-	RYO	-	-	-	52	-	-
1986-W202	2446746.58	1986 Nov 12 0200:00	MT-135P	-	MT135P-R619	-	-	-	-	RYO	-	-	-	54	-	-
1986-W206	2446753.58	1986 Nov 19 0200:00	MT-135P	-	MT135P-R620	-	-	-	-	RYO	-	-	-	53	-	-
1986-W213	2446767.58	1986 Dec 3 0200:00	MT-135P	-	MT135P-R621	-	-	-	-	RYO	-	-	-	54	-	-
1986-W218	2446774.58	1986 Dec 10 0200:00	MT-135P	-	MT135P-R622	-	-	-	-	RYO	-	-	-	55	-	-
1986-W222	2446781.58	1986 Dec 17 0200:00	MT-135P	-	MT135P-R623	-	-	-	-	RYO	-	-	-	56	-	-
1986-W225	2446788.58	1986 Dec 24 0200:00	MT-135P	-	MT135P-R624	-	-	-	-	RYO	-	-	-	55	-	-
1987-W314	2446802.58	1987 Jan 7 0200	MT-135P	-	MT135P-R625	-	-	-	-	RYO	-	-	-	60	-	-
1987-W22	2446809.58	1987 Jan 14 0200:00	MT-135P	-	MT135P-R626	-	-	-	-	RYO	-	-	-	51	-	-
1987-W30	2446816.58	1987 Jan 21 0200:00	MT-135P	-	MT135P-R627	-	-	-	-	RYO	-	-	-	55	-	-
1987-W42	2446831.58	1987 Feb 5 0200:00	MT-135P	-	MT135P-R628	-	-	-	-	RYO	-	-	-	57	-	-
1987-W47	2446844.58	1987 Feb 18 0200:00	MT-135P	-	MT135P-R629	-	-	-	-	RYO	-	-	-	57	-	-
1987-W51	2446851.58	1987 Feb 25 0200:00	MT-135P	-	MT135P-R630	-	-	-	-	RYO	-	-	-	56	-	-
1987-W65	2446865.58	1987 Mar 11 0200:00	MT-135P	-	MT135P-R631	-	-	-	-	RYO	-	-	-	56	-	-
1987-W68	2446872.58	1987 Mar 18 0200:00	MT-135P	-	MT135P-R632	-	-	-	-	RYO	-	-	-	56	-	-
1987-W77	2446879.58	1987 Mar 25 0200:00	MT-135P	-	MT135P-R633	-	-	-	-	RYO	-	-	-	56	-	-
1987-W90	2446893.58	1987 Apr 8 0200:00	MT-135P	-	MT135P-R634	-	-	-	-	RYO	-	-	-	56	-	-
1987-W109	2446908.58	1987 Apr 23 0200:00	MT-135P	-	MT135P-R635	-	-	-	-	RYO	-	-	-	56	-	-
1987-W117	2446914.58	1987 Apr 29 0200:00	MT-135P	-	MT135P-R636	-	-	-	-	RYO	-	-	-	55	-	-
1987-W129	2446928.58	1987 May 13 0200:00	MT-135P	-	MT135P-R637	-	-	-	-	RYO	-	-	-	57	-	-
1987-W135	2446935.58	1987 May 20 0200:00	MT-135P	-	MT135P-R638	-	-	-	-	RYO	-	-	-	61	-	-
1987-W140	2446942.59	1987 May 27 0215:00	MT-135P	-	MT135P-R639	-	-	-	-	RYO	-	-	-	57	-	-
1987-W151	2446956.60	1987 Jun 10 0230:00	MT-135P	-	MT135P-R640	-	-	-	-	RYO	-	-	-	56	-	-
1987-W161	2446963.58	1987 Jun 17 0200:00	MT-135P	-	MT135P-R641	-	-	-	-	RYO	-	-	-	56	-	-
1987-W169	2446970.58	1987 Jun 24 0200:00	MT-135P	-	MT135P-R642	-	-	-	-	RYO	-	-	-	57	-	-
1987-W178	2446984.58	1987 Jul 8 0200:00	MT-135P	-	MT135P-R643	-	-	-	-	RYO	-	-	-	56	-	-
1987-W194	2446999.58	1987 Jul 23 0200:00	MT-135P	-	MT135P-R644	-	-	-	-	RYO	-	-	-	55	-	-
1987-W203	2447013.58	1987 Aug 6 0200:00	MT-135P	-	MT135P-R645	-	-	-	-	RYO	-	-	-	55	-	-
1987-W212	2447026.58	1987 Aug 19 0200:00	MT-135P	-	MT135P-R646	-	-	-	-	RYO	-	-	-	55	-	-
1987-W218	2447040.58	1987 Sep 2 0200:00	MT-135P	-	MT135P-R647	-	-	-	-	RYO	-	-	-	56	-	-
1987-W312	2447047.58	1987 Sep 9 0200	MT-135	-	MT-135-47	SONDE	-	-	-	KASC	-	-	-	58	-	-
1987-W225	2447047.59	1987 Sep 9 0212:00	MT-135P	-	MT135P-R648	-	-	-	-	RYO	-	-	-	55	-	-
1987-W313	2447047.67	1987 Sep 9 0400	MT-135	-	MT-135-48	SONDE	-	-	-	KASC	-	-	-	58	-	-
1987-W315	2447061.58	1987 Sep 23 0200	MT-135P	-	MT135P-R649	-	-	-	-	RYO	-	-	-	60	-	-
1987-W316	2447068.58	1987 Sep 30 0200	MT-135P	-	MT135P-R650	-	-	-	-	RYO	-	-	-	60	-	-
1987-W248	2447075.58	1987 Oct 7 0200:00	MT-135P	-	MT135P-R651	-	-	-	-	RYO	-	-	-	56	-	-
1987-W256	2447089.60	1987 Oct 21 0217:00	MT-135P	-	MT135P-R652	-	-	-	-	RYO	-	-	-	57	-	-
1987-W263	2447096.58	1987 Oct 28 0200:00	MT-135P	-	MT135P-R653	-	-	-	-	RYO	-	-	-	55	-	-
1987-W272	2447110.58	1987 Nov 11 0200:00	MT-135P	-	MT135P-R654	-	-	-	-	RYO	-	-	-	55	-	-
1987-W278	2447117.58	1987 Nov 18 0200:00	MT-135P	-	MT135P-R655	-	-	-	-	RYO	-	-	-	56	-	-
1987-W285	2447125.58	1987 Nov 26 0200:00	MT-135P	-	MT135P-R656	-	-	-	-	RYO	-	-	-	55	-	-
1987-W302	2447138.58	1987 Dec 9 0200:00	MT-135P	-	MT135P-R657	-	-	-	-	RYO	-	-	-	52	-	-
1987-W310	2447145.59	1987 Dec 16 0213:00	MT-135P	-	MT135P-R658	-	-	-	-	RYO	-	-	-	54	-	-
1987-W317	2447152.58	1987 Dec 23 0200	MT-135P	-	MT135P-R659	-	-	-	-	RYO	-	-	-	60	-	-
1988-W01	2447166.60	1988 Jan 6 0224:00	MT-135P	-	MT135P-R660	-	-	-	-	RYO	-	-	-	60	-	-
1988-W233	2447173.58	1988 Jan 13 0200	MT-135P	-	MT135P-R661	-	-	-	-	RYO	-	-	-	60	-	-
1988-W09	2447180.58	1988 Jan 20 0200:00	MT-135P	-	MT135P-R662	-	-	-	-	RYO	-	-	-	56	-	-
1988-W28	2447201.58	1988 Feb 10 0201:00	MT-135P	-	MT135P-R663	-	-	-	-	RYO	-	-	-	55	-	-
1988-W32	2447208.58	1988 Feb 17 0200:00	MT-135P	-	MT135P-R664	-	-	-	-	RYO	-	-	-	55	-	-
1988-W36	2447215.58	1988 Feb 24 0200:00	MT-135P	-	MT135P-R665	-	-	-	-	RYO	-	-	-	55	-	-
1988-W234	2447223.58	1988 Mar 3 0200	MT-135P	-	MT135P-R666	-	-	-	-	RYO	-	-	-	60	-	-
1988-W235	2447229.59	1988 Mar 9 0205	MT-135P	-	MT135P-R667	-	-	-	-	RYO	-	-	-	60	-	-
1988-W58	2447237.58	1988 Mar 17 0200:00	MT-135P	-	MT135P-R668	-	-	-	-	RYO	-	-	-	57	-	-
1988-W67	2447250.58	1988 Mar 30 0200:00	MT-135P	-	MT135P-R669	-	-	-	-	RYO	-	-	-	57	-	-
1988-W86	2447265.58	1988 Apr 14 0200:00	MT-135P	-	MT135P-R670	-	-	-	-	RYO	-	-	-	55	-	-
1988-W94	2447271.58	1988 Apr 20 0200:00	MT-135P	-	MT135P-R671	-	-	-	-	RYO	-	-	-	55	-	-
1988-W97	2447278.58	1988 Apr 27 0202:00	MT-135P	-	MT135P-R672	-	-	-	-	RYO	-	-	-	54	-	-
1988-W105	2447292.59	1988 May 11 0203:00	MT-135P	-	MT135P-R673	-	-	-	-	RYO	-	-	-	58	-	-
1988-W111	2447306.58	1988 May 25 0200:00	MT-135P	-	MT135P-R674	-	-	-	-	RYO	-	-	-	53	-	-
1988-W115	2447313.58	1988 Jun 1 0200:00	MT-135P	-	MT135P-R675	-	-	-	-	RYO	-	-	-	52	-	-
1988-W121	2447320.58	1988 Jun 8 0200:00	MT-135P	-	MT135P-R676	-	-	-	-	RYO	-	-	-	55	-	-
1988-W236	2447327.58	1988 Jun 15 0200	MT-135P	-	MT135P-R677	-	-	-	-	RYO	-	-	-	60	-	-
1988-W132	2447341.58	1988 Jun 29 0200:00	MT-135P	-	MT135P-R678	-	-	-	-	RYO	-	-	-	57	-	-
1988-W136	2447355.59	1988 Jul 13 0214:00	MT-135P	-	MT135P-R679	-	-	-	-	RYO	-	-	-	56	-	-
1988-W138	2447369.58	1988 Jul 27 0200:00	MT-135P	-	MT135P-R680	-	-	-	-	RYO	-	-	-	56	-	-
1988-W141	2447377.58	1988 Aug 4 0200:00	MT-135P	-	MT135P-R681	-	-	-	-	RYO	-	-	-	53	-	-
1988-W146	2447391.58	1988 Aug 18 0200:00	MT-135P	-	MT135P-R682	-	-	-	-	RYO	-	-	-	55	-	-
1988-W152	2447404.58	1988 Aug 31 0200:00	MT-135P	-	MT135P-R683	-	-	-	-	RYO	-	-	-	54	-	-
1988-W232	2447415.60	1988 Sep 11 0225	MT-135	-	MT-135-49	NNP	-	-	-	KASC	-	-	-	58	-	-
1988-W237	2447418.58	1988 Sep 14 0200	MT-135P	-	MT135P-R684	-	-	-	-	RYO	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-W172	2447433.58	1988 Sep 29 0200:00	MT-135P	-	MT135P-R685	-	-	-	-	RYO	-	-	-	55	-	-
1988-W182	2447446.58	1988 Oct 12 0202:00	MT-135P	-	MT135P-R686	-	-	-	-	RYO	-	-	-	55	-	-
1988-W184	2447460.58	1988 Oct 26 0200:00	MT-135P	-	MT135P-R687	-	-	-	-	RYO	-	-	-	56	-	-
1988-W191	2447474.58	1988 Nov 9 0200:00	MT-135P	-	MT135P-R688	-	-	-	-	RYO	-	-	-	58	-	-
1988-W197	2447481.58	1988 Nov 16 0200:00	MT-135P	-	MT135P-R689	-	-	-	-	RYO	-	-	-	54	-	-
1988-W238	2447488.58	1988 Nov 23 0200	MT-135P	-	MT135P-R690	-	-	-	-	RYO	-	-	-	60	-	-
1988-W206	2447495.58	1988 Nov 30 0202:00	MT-135P	-	MT135P-R691	-	-	-	-	RYO	-	-	-	54	-	-
1988-W214	2447502.58	1988 Dec 7 0200:00	MT-135P	-	MT135P-R692	-	-	-	-	RYO	-	-	-	52	-	-
1988-W216	2447509.58	1988 Dec 14 0200:00	MT-135P	-	MT135P-R693	-	-	-	-	RYO	-	-	-	56	-	-
1988-W222	2447516.58	1988 Dec 21 0200:00	MT-135P	-	MT135P-R694	-	-	-	-	RYO	-	-	-	59	-	-
1988-W228	2447523.59	1988 Dec 28 0212:00	MT-135P	-	MT135P-R695	-	-	-	-	RYO	-	-	-	55	-	-
1989-W19	2447537.58	1989 Jan 11 0202:00	MT-135P	-	MT135P-R696	-	-	-	-	RYO	-	-	-	55	-	-
1989-W307	2447544.58	1989 Jan 18 0150	MT-135P	-	MT135P-R697	-	-	-	-	RYO	-	-	-	60	-	-
1989-W308	2447551.58	1989 Jan 25 0200	MT-135P	-	MT135P-R698	-	-	-	-	RYO	-	-	-	60	-	-
1989-W309	2447558.58	1989 Feb 1 0200	MT-135P	-	MT135P-R699	-	-	-	-	RYO	-	-	-	60	-	-
1989-W310	2447572.58	1989 Feb 15 0200	MT-135P	-	MT135P-R700	-	-	-	-	RYO	-	-	-	60	-	-
1989-W311	2447579.59	1989 Feb 22 0206	MT-135P	-	MT135P-R701	-	-	-	-	RYO	-	-	-	60	-	-
1989-W312	2447587.58	1989 Mar 2 0200	MT-135P	-	MT135P-R702	-	-	-	-	RYO	-	-	-	60	-	-
1989-W313	2447593.58	1989 Mar 8 0200	MT-135P	-	MT135P-R703	-	-	-	-	RYO	-	-	-	60	-	-
1989-W314	2447600.58	1989 Mar 15 0200	MT-135P	-	MT135P-R704	-	-	-	-	RYO	-	-	-	60	-	-
1989-W315	2447614.58	1989 Mar 29 0200	MT-135P	-	MT135P-R705	-	-	-	-	RYO	-	-	-	60	-	-
1989-W316	2447629.58	1989 Apr 13 0202	MT-135P	-	MT135P-R706	-	-	-	-	RYO	-	-	-	60	-	-
1989-W317	2447635.58	1989 Apr 19 0200	MT-135P	-	MT135P-R707	-	-	-	-	RYO	-	-	-	60	-	-
1989-W318	2447642.59	1989 Apr 26 0204	MT-135P	-	MT135P-R708	-	-	-	-	RYO	-	-	-	60	-	-
1989-W319	2447656.58	1989 May 10 0200	MT-135P	-	MT135P-R709	-	-	-	-	RYO	-	-	-	60	-	-
1989-W320	2447663.58	1989 May 17 0200	MT-135P	-	MT135P-R710	-	-	-	-	RYO	-	-	-	60	-	-
1989-W321	2447677.59	1989 May 31 0203	MT-135P	-	MT135P-R711	-	-	-	-	RYO	-	-	-	60	-	-
1989-W322	2447691.58	1989 Jun 14 0200	MT-135P	-	MT135P-R712	-	-	-	-	RYO	-	-	-	60	-	-
1989-W323	2447698.58	1989 Jun 21 0200	MT-135P	-	MT135P-R713	-	-	-	-	RYO	-	-	-	60	-	-
1989-W324	2447705.58	1989 Jun 28 0200	MT-135P	-	MT135P-R714	-	-	-	-	RYO	-	-	-	60	-	-
1989-W325	2447720.58	1989 Jul 13 0200	MT-135P	-	MT135P-R715	-	-	-	-	RYO	-	-	-	60	-	-
1989-W326	2447740.58	1989 Aug 2 0200	MT-135P	-	MT135P-R716	-	-	-	-	RYO	-	-	-	60	-	-
1989-W327	2447754.58	1989 Aug 16 0200	MT-135P	-	MT135P-R717	-	-	-	-	RYO	-	-	-	60	-	-
1989-W328	2447768.58	1989 Aug 30 0200	MT-135P	-	MT135P-R718	-	-	-	-	RYO	-	-	-	60	-	-
1989-W329	2447782.58	1989 Sep 13 0200	MT-135P	-	MT135P-R719	-	-	-	-	RYO	-	-	-	60	-	-
1989-W330	2447789.58	1989 Sep 20 0201	MT-135P	-	MT135P-R720	-	-	-	-	RYO	-	-	-	60	-	-
1989-W331	2447803.58	1989 Oct 4 0200	MT-135P	-	MT135P-R721	-	-	-	-	RYO	-	-	-	60	-	-
1989-W332	2447817.59	1989 Oct 18 0204	MT-135P	-	MT135P-R722	-	-	-	-	RYO	-	-	-	60	-	-
1989-W333	2447831.58	1989 Nov 1 0200	MT-135P	-	MT135P-R723	-	-	-	-	RYO	-	-	-	60	-	-
1989-W334	2447845.58	1989 Nov 15 0200	MT-135P	-	MT135P-R724	-	-	-	-	RYO	-	-	-	60	-	-
1989-W335	2447852.58	1989 Nov 22 0200	MT-135P	-	MT135P-R725	-	-	-	-	RYO	-	-	-	60	-	-
1989-W336	2447866.58	1989 Dec 6 0200	MT-135P	-	MT135P-R726	-	-	-	-	RYO	-	-	-	60	-	-
1989-W337	2447873.58	1989 Dec 13 0202	MT-135P	-	MT135P-R727	-	-	-	-	RYO	-	-	-	60	-	-
1989-W338	2447881.59	1989 Dec 21 0210	MT-135P	-	MT135P-R728	-	-	-	-	RYO	-	-	-	60	-	-
1989-W339	2447888.58	1989 Dec 28 0200	MT-135P	-	MT135P-R729	-	-	-	-	RYO	-	-	-	60	-	-
1989-W218	2447775.58	1989 Sep 6 0200	MT-135	-	MT-135-50	NNP-03	-	-	-	KASC	-	-	-	54	-	-
1990-W191	2447897.58	1990 Jan 6 0200	MT-135P	-	MT135P-R730	-	-	-	-	RYO	-	-	-	60	-	-
1990-W13	2447908.58	1990 Jan 17 0200:00	MT-135P	-	MT-135P-R731	DYANA	-	-	-	RYO	-	-	-	59	-	-
1990-W43	2447915.58	1990 Jan 24 0200:00	MT-135P	-	MT-135P-R732	DYANA	-	-	-	RYO	-	-	-	58	-	-
1990-W55	2447922.58	1990 Jan 31 0200:00	MT-135P	-	MT-135P-R733	DYANA	-	-	-	RYO	-	-	-	58	-	-
1990-W69	2447929.58	1990 Feb 7 0200	MT-135P	-	MT-135P-R734	DYANA	-	-	-	RYO	-	-	-	58	-	-
1990-W76	2447936.58	1990 Feb 14 0200	MT-135P	-	MT-135P-R735	DYANA	-	-	-	RYO	-	-	-	58	-	-
1990-W85	2447943.58	1990 Feb 21 0200	MT-135P	-	MT-135P-R736	DYANA	-	-	-	RYO	-	-	-	58	-	-
1990-W86	2447943.58	1990 Feb 21 0200	MT-135	-	MT-135-51	DYANA parachute	-	-	-	KASC	-	-	-	58	-	-
1990-W98	2447950.58	1990 Feb 28 0200	MT-135P	-	MT-135P-R737	DYANA	-	-	-	RYO	-	-	-	55	-	-
1990-W109	2447957.58	1990 Mar 7 0200	MT-135P	-	MT-135P-R738	DYANA	-	-	-	RYO	-	-	-	55	-	-
1990-W126	2447964.58	1990 Mar 14 0200	MT-135P	-	MT-135P-R739	DYANA	-	-	-	RYO	-	-	-	55	-	-
1990-W192	2447971.58	1990 Mar 21 0200	MT-135P	-	MT135P-R740	-	-	-	-	RYO	-	-	-	60	-	-
1990-W193	2447978.58	1990 Mar 28 0200	MT-135P	-	MT135P-R741	-	-	-	-	RYO	-	-	-	60	-	-
1990-W194	2447992.58	1990 Apr 11 0200	MT-135P	-	MT135P-R742	-	-	-	-	RYO	-	-	-	60	-	-
1990-W195	2447999.58	1990 Apr 18 0200	MT-135P	-	MT135P-R743	-	-	-	-	RYO	-	-	-	60	-	-
1990-W196	2448006.58	1990 Apr 25 0200	MT-135P	-	MT135P-R744	-	-	-	-	RYO	-	-	-	60	-	-
1990-W197	2448021.58	1990 May 10 0200	MT-135P	-	MT135P-R745	-	-	-	-	RYO	-	-	-	60	-	-
1990-W198	2448027.58	1990 May 16 0200	MT-135P	-	MT135P-R746	-	-	-	-	RYO	-	-	-	60	-	-
1990-W199	2448034.58	1990 May 23 0200	MT-135P	-	MT135P-R747	-	-	-	-	RYO	-	-	-	60	-	-
1990-W200	2448048.58	1990 Jun 6 0200	MT-135P	-	MT135P-R748	-	-	-	-	RYO	-	-	-	60	-	-
1990-W201	2448062.58	1990 Jun 20 0200	MT-135P	-	MT135P-R749	-	-	-	-	RYO	-	-	-	60	-	-
1990-W202	2448070.58	1990 Jun 28 0200	MT-135P	-	MT135P-R750	-	-	-	-	RYO	-	-	-	60	-	-
1990-W203	2448083.58	1990 Jul 11 0200	MT-135P	-	MT135P-R751	-	-	-	-	RYO	-	-	-	60	-	-
1990-W204	2448097.59	1990 Jul 25 0205	MT-135P	-	MT135P-R752	-	-	-	-	RYO	-	-	-	60	-	-
1990-W205	2448111.58	1990 Aug 8 0200	MT-135P	-	MT135P-R753	-	-	-	-	RYO	-	-	-	60	-	-
1990-W206	2448126.58	1990 Aug 23 0200	MT-135P	-	MT135P-R754	-	-	-	-	RYO	-	-	-	60	-	-
1990-W155	2448130.59	1990 Aug 27 0210:00	MT-135	-	MT-135-52	NNP-03	-	-	-	KASC	-	-	-	57	-	-
1990-W207	2448139.58	1990 Sep 5 0201	MT-135P	-	MT135P-R755	-	-	-	-	RYO	-	-	-	60	-	-
1990-W208	2448153.58	1990 Sep 19 0201	MT-135P	-	MT135P-R756	-	-	-	-	RYO	-	-	-	60	-	-
1990-W209	2448167.58	1990 Oct 3 0200	MT-135P	-	MT135P-R757	-	-	-	-	RYO	-	-	-	60	-	-
1990-W210	2448181.59	1990 Oct 17 0205	MT-135P	-	MT135P-R758	-	-	-	-	RYO	-	-	-	60	-	-
1990-W211	2448196.58	1990 Nov 1 0200	MT-135P	-	MT135P-R759	-	-	-	-	RYO	-	-	-	60	-	-
1990-W212	2448202.58	1990 Nov 7 0200	MT-135P	-	MT135P-R760	-	-	-	-	RYO	-	-	-	60	-	-
1990-W213	2448209.58	1990 Nov 14 0201	MT-135P	-	MT135P-R761	-	-	-	-	RYO	-	-	-	60	-	-
1990-W214	2448223.58	1990 Nov 28 0200	MT-135P	-	MT135P-R762	-	-	-	-	RYO	-	-	-	60	-	-
1990-W215	2448230.58	1990 Dec 5 0200	MT-135P	-	MT135P-R763	-	-	-	-	RYO	-	-	-	60	-	-
1990-W216	2448237.58	1990 Dec 12 0200	MT-135P	-	MT135P-R764	-	-	-	-	RYO	-	-	-	60	-	-
1990-W217	2448244.58	1990 Dec 19 0202	MT-135P	-	MT135P-R765	-	-	-	-	RYO	-	-	-	60	-	-
1990-W218	2448252.58	1990 Dec 27 0201	MT-135P	-	MT135P-R766	-	-	-	-	RYO	-	-	-	60	-	-
1991-W132	2448265.59	1991 Jan 9 0205	MT-135P	-	MT135P-R767	-	-	-	-	RYO	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-W133	2448272.59	1991 Jan 16 0203	MT-135P	-	MT135P-R768	-	-	-	-	RYO	-	-	-	60	-	-
1991-W134	2448279.58	1991 Jan 23 0201	MT-135P	-	MT135P-R769	-	-	-	-	RYO	-	-	-	60	-	-
1991-W135	2448286.59	1991 Jan 30 0208	MT-135P	-	MT135P-R770	-	-	-	-	RYO	-	-	-	60	-	-
1991-W136	2448293.60	1991 Feb 6 0225	MT-135P	-	MT135P-R771	-	-	-	-	RYO	-	-	-	60	-	-
1991-W29	2448296.58	1991 Feb 9 0200	MT-135	-	MT-135-53	NNP-03	-	-	-	KASC	-	-	-	57	-	-
1991-W30	2448298.59	1991 Feb 11 0210	MT-135	-	MT-135-54	NNP-03	-	-	-	KASC	-	-	-	62	-	-
1991-W137	2448300.58	1991 Feb 13 0202	MT-135P	-	MT135P-R772	-	-	-	-	RYO	-	-	-	60	-	-
1991-W138	2448307.60	1991 Feb 20 0220	MT-135P	-	MT135P-R773	-	-	-	-	RYO	-	-	-	60	-	-
1991-W139	2448314.59	1991 Feb 27 0204	MT-135P	-	MT135P-R774	-	-	-	-	RYO	-	-	-	60	-	-
1991-W140	2448328.59	1991 Mar 13 0213	MT-135P	-	MT135P-R775	-	-	-	-	RYO	-	-	-	60	-	-
1991-W141	2448335.58	1991 Mar 20 0200	MT-135P	-	MT135P-R776	-	-	-	-	RYO	-	-	-	60	-	-
1991-W142	2448342.58	1991 Mar 27 0200	MT-135P	-	MT135P-R777	-	-	-	-	RYO	-	-	-	60	-	-
1991-W143	2448356.59	1991 Apr 10 0203	MT-135P	-	MT135P-R778	-	-	-	-	RYO	-	-	-	60	-	-
1991-W144	2448363.59	1991 Apr 17 0205	MT-135P	-	MT135P-R779	-	-	-	-	RYO	-	-	-	60	-	-
1991-W145	2448370.58	1991 Apr 24 0200	MT-135P	-	MT135P-R780	-	-	-	-	RYO	-	-	-	60	-	-
1991-W146	2448384.58	1991 May 8 0202	MT-135P	-	MT135P-R781	-	-	-	-	RYO	-	-	-	60	-	-
1991-W147	2448391.58	1991 May 15 0200	MT-135P	-	MT135P-R782	-	-	-	-	RYO	-	-	-	60	-	-
1991-W148	2448398.58	1991 May 22 0200	MT-135P	-	MT135P-R783	-	-	-	-	RYO	-	-	-	60	-	-
1991-W149	2448412.60	1991 Jun 5 0225	MT-135P	-	MT135P-R784	-	-	-	-	RYO	-	-	-	60	-	-
1991-W150	2448426.59	1991 Jun 19 0210	MT-135P	-	MT135P-R785	-	-	-	-	RYO	-	-	-	60	-	-
1991-W151	2448433.58	1991 Jun 26 0200	MT-135P	-	MT135P-R786	-	-	-	-	RYO	-	-	-	60	-	-
1991-W152	2448448.58	1991 Jul 11 0200	MT-135P	-	MT135P-R787	-	-	-	-	RYO	-	-	-	60	-	-
1991-W153	2448454.58	1991 Jul 17 0200	MT-135P	-	MT135P-R788	-	-	-	-	RYO	-	-	-	60	-	-
1991-W154	2448469.58	1991 Aug 1 0200	MT-135P	-	MT135P-R789	-	-	-	-	RYO	-	-	-	60	-	-
1991-W155	2448482.58	1991 Aug 14 0200	MT-135P	-	MT135P-R790	-	-	-	-	RYO	-	-	-	60	-	-
1991-W156	2448496.59	1991 Aug 28 0205	MT-135P	-	MT135P-R791	-	-	-	-	RYO	-	-	-	60	-	-
1991-W157	2448503.58	1991 Sep 4 0200	MT-135P	-	MT135P-R792	-	-	-	-	RYO	-	-	-	60	-	-
1991-W104	2448510.58	1991 Sep 11 0200:00	MT-135	-	MT-135-55	NNP-03	-	-	-	KASC	-	-	-	56	-	-
1991-W108	2448511.58	1991 Sep 12 0200:00	MT-135	-	MT-135-56	NNP-03	-	-	-	KASC	-	-	-	57	-	-
1991-W158	2448511.58	1991 Sep 12 0200	MT-135P	-	MT135P-R793	-	-	-	-	RYO	-	-	-	60	-	-
1991-W159	2448524.59	1991 Sep 25 0210	MT-135P	-	MT135P-R794	-	-	-	-	RYO	-	-	-	60	-	-
1991-W160	2448532.58	1991 Oct 3 0200	MT-135P	-	MT135P-R795	-	-	-	-	RYO	-	-	-	60	-	-
1991-W161	2448545.58	1991 Oct 16 0200	MT-135P	-	MT135P-R796	-	-	-	-	RYO	-	-	-	60	-	-
1991-W162	2448552.59	1991 Oct 23 0203	MT-135P	-	MT135P-R797	-	-	-	-	RYO	-	-	-	60	-	-
1991-W163	2448566.59	1991 Nov 6 0214	MT-135P	-	MT135P-R798	-	-	-	-	RYO	-	-	-	60	-	-
1991-W164	2448573.58	1991 Nov 13 0200	MT-135P	-	MT135P-R799	-	-	-	-	RYO	-	-	-	60	-	-
1991-W165	2448587.58	1991 Nov 27 0200	MT-135P	-	MT135P-R800	-	-	-	-	RYO	-	-	-	60	-	-
1991-W166	2448594.58	1991 Dec 4 0200	MT-135P	-	MT135P-R801	-	-	-	-	RYO	-	-	-	60	-	-
1991-W167	2448601.59	1991 Dec 11 0203	MT-135P	-	MT135P-R802	-	-	-	-	RYO	-	-	-	60	-	-
1991-W168	2448608.58	1991 Dec 18 0200	MT-135P	-	MT135P-R803	-	-	-	-	RYO	-	-	-	60	-	-
1991-W169	2448615.58	1991 Dec 25 0200	MT-135P	-	MT135P-R804	-	-	-	-	RYO	-	-	-	60	-	-
1992-W115	2448630.58	1992 Jan 9 0200	MT-135P	-	MT135P-R805	-	-	-	-	RYO	-	-	-	60	-	-
1992-W02	2448636.58	1992 Jan 15 0200:00	MT-135P	-	MT135P-R806	-	-	-	-	RYO	-	-	-	57	-	-
1992-W04	2448643.58	1992 Jan 22 0200:00	MT-135P	-	MT135P-R807	-	-	-	-	RYO	-	-	-	58	-	-
1992-W06	2448657.59	1992 Feb 5 0203:00	MT-135P	-	MT135P-R808	-	-	-	-	RYO	-	-	-	54	-	-
1992-W14	2448671.59	1992 Feb 19 0211:00	MT-135P	-	MT135P-R809	-	-	-	-	RYO	-	-	-	56	-	-
1992-W19	2448678.59	1992 Feb 26 0208:00	MT-135P	-	MT135P-R810	-	-	-	-	RYO	-	-	-	56	-	-
1992-W116	2448692.58	1992 Mar 11 0200	MT-135P	-	MT135P-R811	-	-	-	-	RYO	-	-	-	60	-	-
1992-W28	2448699.58	1992 Mar 18 0200:00	MT-135P	-	MT135P-R812	-	-	-	-	RYO	-	-	-	54	-	-
1992-W32	2448706.58	1992 Mar 25 0200:00	MT-135P	-	MT135P-R813	-	-	-	-	RYO	-	-	-	51	-	-
1992-W117	2448720.58	1992 Apr 8 0200	MT-135P	-	MT135P-R814	-	-	-	-	RYO	-	-	-	60	-	-
1992-W44	2448727.59	1992 Apr 15 0204:59	MT-135P	-	MT135P-R815	-	-	-	-	RYO	-	-	-	58	-	-
1992-W45	2448734.58	1992 Apr 22 0202:00	MT-135P	-	MT135P-R816	-	-	-	-	RYO	-	-	-	58	-	-
1992-W47	2448742.58	1992 Apr 30 0200:00	MT-135P	-	MT135P-R817	-	-	-	-	RYO	-	-	-	56	-	-
1992-W118	2448755.58	1992 May 13 0200	MT-135P	-	MT135P-R818	-	-	-	-	RYO	-	-	-	60	-	-
1992-W119	2448762.58	1992 May 20 0200	MT-135P	-	MT135P-R819	-	-	-	-	RYO	-	-	-	60	-	-
1992-W52	2448769.58	1992 May 27 0200:00	MT-135P	-	MT135P-R820	-	-	-	-	RYO	-	-	-	59	-	-
1992-W57	2448783.58	1992 Jun 10 0200:00	MT-135P	-	MT135P-R821	-	-	-	-	RYO	-	-	-	58	-	-
1992-W58	2448790.59	1992 Jun 17 0210:00	MT-135P	-	MT135P-R822	-	-	-	-	RYO	-	-	-	53	-	-
1992-W63	2448797.58	1992 Jun 24 0200:00	MT-135P	-	MT135P-R823	-	-	-	-	RYO	-	-	-	55	-	-
1992-W73	2448812.58	1992 Jul 9 0200:00	MT-135P	-	MT135P-R824	-	-	-	-	RYO	-	-	-	58	-	-
1992-W76	2448825.58	1992 Jul 22 0200:00	MT-135P	-	MT135P-R825	-	-	-	-	RYO	-	-	-	58	-	-
1992-W83	2448839.58	1992 Aug 5 0200:00	MT-135P	-	MT135P-R826	-	-	-	-	RYO	-	-	-	55	-	-
1992-W85	2448853.60	1992 Aug 19 0230:00	MT-135P	-	MT135P-R827	-	-	-	-	RYO	-	-	-	55	-	-
1992-W120	2448867.58	1992 Sep 2 0200	MT-135P	-	MT135P-R828	-	-	-	-	RYO	-	-	-	60	-	-
1992-W90	2448874.58	1992 Sep 9 0200:00	MT-135P	-	MT135P-R829	-	-	-	-	RYO	-	-	-	55	-	-
1992-W91	2448874.58	1992 Sep 9 0200	MT-135	-	MT-135-57	NNP-03	-	-	-	KASC	-	-	-	57	-	-
1992-W123	2448888.58	1992 Sep 23 0200	MT-135P	-	MT135P-R830	-	-	-	-	RYO	-	-	-	60	-	-
1992-W95	2448902.59	1992 Oct 7 0210:00	MT-135P	-	MT135P-R831	-	-	-	-	RYO	-	-	-	57	-	-
1992-W121	2448917.58	1992 Oct 22 0200	MT-135P	-	MT135P-R832	-	-	-	-	RYO	-	-	-	60	-	-
1992-W102	2448923.58	1992 Oct 28 0200:00	MT-135P	-	MT135P-R833	-	-	-	-	RYO	-	-	-	54	-	-
1992-W103	2448931.58	1992 Nov 5 0200:00	MT-135P	-	MT135P-R834	-	-	-	-	RYO	-	-	-	55	-	-
1992-W106	2448944.58	1992 Nov 18 0200:00	MT-135P	-	MT135P-R835	-	-	-	-	RYO	-	-	-	53	-	-
1992-W108	2448951.58	1992 Nov 25 0200:00	MT-135P	-	MT135P-R836	-	-	-	-	RYO	-	-	-	54	-	-
1992-W110	2448958.60	1992 Dec 2 0220:00	MT-135P	-	MT135P-R837	-	-	-	-	RYO	-	-	-	52	-	-
1992-W111	2448972.59	1992 Dec 16 0209:00	MT-135P	-	MT135P-R838	-	-	-	-	RYO	-	-	-	56	-	-
1992-W122	2448979.58	1992 Dec 23 0200	MT-135P	-	MT135P-R839	-	-	-	-	RYO	-	-	-	60	-	-
1992-W114	2448987.59	1992 Dec 31 0203:00	MT-135P	-	MT135P-R840	-	-	-	-	RYO	-	-	-	54	-	-
1993-W01	2448993.59	1993 Jan 6 0204:59	MT-135P	-	MT135P-R841	-	-	-	-	RYO	-	-	-	56	-	-
1993-W03	2449007.58	1993 Jan 20 0201:00	MT-135P	-	MT135P-R842	-	-	-	-	RYO	-	-	-	58	-	-
1993-W04	2449014.58	1993 Jan 27 0200:00	MT-135P	-	MT135P-R843	-	-	-	-	RYO	-	-	-	55	-	-
1993-W06	2449021.58	1993 Feb 3 0200:00	MT-135P	-	MT135P-R844	-	-	-	-	RYO	-	-	-	57	-	-
1993-W07	2449036.58	1993 Feb 18 0200:00	MT-135P	-	MT135P-R845	-	-	-	-	RYO	-	-	-	56	-	-
1993-W62	2449042.58	1993 Feb 24 0200	MT-135P	-	MT135P-R846	-	-	-	-	RYO	-	-	-	60	-	-
1993-W08	2449049.58	1993 Mar 3 0200:00	MT-135P	-	MT135P-R847	-	-	-	-	RYO	-	-	-	56	-	-
1993-W09	2449063.58	1993 Mar 17 0200:00	MT-135P	-	MT135P-R848	-	-	-	-	RYO	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-W12	2449070.59	1993 Mar 24 0207:00	MT-135P	-	MT135P-R849	-	-	-	-	RYO	-	-	-	56	-	-
1993-W17	2449084.59	1993 Apr 7 0207:00	MT-135P	-	MT135P-R850	-	-	-	-	RYO	-	-	-	55	-	-
1993-W18	2449098.59	1993 Apr 21 0204:59	MT-135P	-	MT135P-R851	-	-	-	-	RYO	-	-	-	56	-	-
1993-W19	2449105.58	1993 Apr 28 0202:00	MT-135P	-	MT135P-R852	-	-	-	-	RYO	-	-	-	58	-	-
1993-W21	2449119.58	1993 May 12 0202:00	MT-135P	-	MT135P-R853	-	-	-	-	RYO	-	-	-	57	-	-
1993-W23	2449126.59	1993 May 19 0204:59	MT-135P	-	MT135P-R854	-	-	-	-	RYO	-	-	-	56	-	-
1993-W25	2449133.59	1993 May 26 0210:00	MT-135P	-	MT135P-R855	-	-	-	-	RYO	-	-	-	59	-	-
1993-W28	2449147.60	1993 Jun 9 0226:59	MT-135P	-	MT135P-R856	-	-	-	-	RYO	-	-	-	57	-	-
1993-W29	2449154.59	1993 Jun 16 0204:59	MT-135P	-	MT135P-R857	-	-	-	-	RYO	-	-	-	57	-	-
1993-W32	2449168.60	1993 Jun 30 0221:00	MT-135P	-	MT135P-R858	-	-	-	-	RYO	-	-	-	57	-	-
1993-W35	2449183.58	1993 Jul 15 0200:00	MT-135P	-	MT135P-R859	-	-	-	-	RYO	-	-	-	56	-	-
1993-W63	2449189.58	1993 Jul 21 0200	MT-135P	-	MT135P-R860	-	-	-	-	RYO	-	-	-	60	-	-
1993-W38	2449203.59	1993 Aug 4 0210:00	MT-135P	-	MT135P-R861	-	-	-	-	RYO	-	-	-	56	-	-
1993-W40	2449217.58	1993 Aug 18 0200:00	MT-135P	-	MT135P-R862	-	-	-	-	RYO	-	-	-	57	-	-
1993-W42	2449231.59	1993 Sep 1 0203:00	MT-135P	-	MT135P-R863	-	-	-	-	RYO	-	-	-	57	-	-
1993-W45	2449245.58	1993 Sep 15 0200:00	MT-135P	-	MT135P-R864	-	-	-	-	RYO	-	-	-	55	-	-
1993-W46	2449252.58	1993 Sep 22 0200:00	MT-135P	-	MT135P-R865	-	-	-	-	RYO	-	-	-	54	-	-
1993-W61	2449253.58	1993 Sep 23 0200	MT-135	-	MT-135-58	NNP-03	-	-	-	KASC	-	-	-	57	-	-
1993-W47	2449254.58	1993 Sep 24 0200	MT-135	-	MT-135-59	NNP-03	-	-	-	KASC	-	-	-	56	-	-
1993-W64	2449259.58	1993 Sep 29 0200	MT-135P	-	MT135P-R866	-	-	-	-	RYO	-	-	-	60	-	-
1993-W49	2449274.58	1993 Oct 14 0200:00	MT-135P	-	MT135P-R867	-	-	-	-	RYO	-	-	-	53	-	-
1993-W51	2449280.59	1993 Oct 20 0210:00	MT-135P	-	MT135P-R868	-	-	-	-	RYO	-	-	-	57	-	-
1993-W52	2449287.58	1993 Oct 27 0200:00	MT-135P	-	MT135P-R869	-	-	-	-	RYO	-	-	-	54	-	-
1993-W53	2449301.58	1993 Nov 10 0200:00	MT-135P	-	MT135P-R870	-	-	-	-	RYO	-	-	-	54	-	-
1993-W54	2449308.58	1993 Nov 17 0200:00	MT-135P	-	MT135P-R871	-	-	-	-	RYO	-	-	-	52	-	-
1993-W57	2449323.58	1993 Dec 2 0200:00	MT-135P	-	MT135P-R872	-	-	-	-	RYO	-	-	-	54	-	-
1993-W58	2449329.58	1993 Dec 8 0200:00	MT-135P	-	MT135P-R873	-	-	-	-	RYO	-	-	-	55	-	-
1993-W59	2449336.59	1993 Dec 15 0215:00	MT-135P	-	MT135P-R874	-	-	-	-	RYO	-	-	-	53	-	-
1993-W60	2449343.59	1993 Dec 22 0203:00	MT-135P	-	MT135P-R875	-	-	-	-	RYO	-	-	-	56	-	-
1994-A02	2449358.58	1994 Jan 6 0200:00	MT-135P	-	MT135P-R876	-	-	-	-	RYO	-	-	-	49	-	-
1994-W01	2449365.58	1994 Jan 13 0200:00	MT-135P	-	MT135P-R877	-	-	-	-	RYO	-	-	-	50	-	-
1994-W06	2449378.58	1994 Jan 26 0200	MT-135P	-	MT135P-R878	-	-	-	-	RYO	-	-	-	60	-	-
1994-W07	2449386.58	1994 Feb 3 0200	MT-135P	-	MT135P-R879	-	-	-	-	RYO	-	-	-	60	-	-
1994-W08	2449399.59	1994 Feb 16 0207	MT-135P	-	MT135P-R880	-	-	-	-	RYO	-	-	-	60	-	-
1994-W09	2449413.60	1994 Mar 2 0220	MT-135P	-	MT135P-R881	-	-	-	-	RYO	-	-	-	60	-	-
1994-W10	2449420.58	1994 Mar 9 0200	MT-135P	-	MT135P-R882	-	-	-	-	RYO	-	-	-	60	-	-
1994-W11	2449427.58	1994 Mar 16 0200	MT-135P	-	MT135P-R883	-	-	-	-	RYO	-	-	-	60	-	-
1994-W12	2449435.59	1994 Mar 24 0210	MT-135P	-	MT135P-R884	-	-	-	-	RYO	-	-	-	60	-	-
1994-W13	2449441.59	1994 Mar 30 0203	MT-135P	-	MT135P-R885	-	-	-	-	RYO	-	-	-	60	-	-
1994-W14	2449455.60	1994 Apr 13 0228	MT-135P	-	MT135P-R886	-	-	-	-	RYO	-	-	-	60	-	-
1994-W15	2449462.59	1994 Apr 20 0210	MT-135P	-	MT135P-R887	-	-	-	-	RYO	-	-	-	60	-	-
1994-W16	2449469.59	1994 Apr 27 0210	MT-135P	-	MT135P-R888	-	-	-	-	RYO	-	-	-	60	-	-
1994-W17	2449483.59	1994 May 11 0203	MT-135P	-	MT135P-R889	-	-	-	-	RYO	-	-	-	60	-	-
1994-W18	2449497.59	1994 May 25 0215	MT-135P	-	MT135P-R890	-	-	-	-	RYO	-	-	-	60	-	-
1994-W19	2449511.59	1994 Jun 8 0203	MT-135P	-	MT135P-R891	-	-	-	-	RYO	-	-	-	60	-	-
1994-W20	2449518.60	1994 Jun 15 0220	MT-135P	-	MT135P-R892	-	-	-	-	RYO	-	-	-	60	-	-
1994-W21	2449532.58	1994 Jun 29 0200	MT-135P	-	MT135P-R893	-	-	-	-	RYO	-	-	-	60	-	-
1994-W22	2449546.60	1994 Jul 13 0220	MT-135P	-	MT135P-R894	-	-	-	-	RYO	-	-	-	60	-	-
1994-W23	2449553.59	1994 Jul 20 0208	MT-135P	-	MT135P-R895	-	-	-	-	RYO	-	-	-	60	-	-
1994-W24	2449567.59	1994 Aug 3 0205	MT-135P	-	MT135P-R896	-	-	-	-	RYO	-	-	-	60	-	-
1994-W25	2449581.59	1994 Aug 17 0205	MT-135P	-	MT135P-R897	-	-	-	-	RYO	-	-	-	60	-	-
1994-W26	2449588.59	1994 Aug 24 0203	MT-135P	-	MT135P-R898	-	-	-	-	RYO	-	-	-	60	-	-
1994-W02	2449601.58	1994 Sep 6 0200	MT-135	-	MT-135-60	NNP-03	-	-	-	KASC	-	-	-	56	-	-
1994-W03	2449602.58	1994 Sep 7 0200	MT-135	-	MT-135-61	NNP-03	-	-	-	KASC	-	-	-	56	-	-
1994-W27	2449603.59	1994 Sep 8 0203	MT-135P	-	MT135P-R899	-	-	-	-	RYO	-	-	-	60	-	-
1994-W04	2449610.58	1994 Sep 15 0200	MT-135	-	MT-135-62	NNP-03	-	-	-	KASC	-	-	-	55	-	-
1994-W05	2449613.58	1994 Sep 18 0200	MT-135	-	MT-135-63	NNP-03	-	-	-	KASC	-	-	-	53	-	-
1994-W28	2449616.58	1994 Sep 21 0200	MT-135P	-	MT135P-R900	-	-	-	-	RYO	-	-	-	60	-	-
1994-W29	2449623.59	1994 Sep 28 0210	MT-135P	-	MT135P-R901	-	-	-	-	RYO	-	-	-	60	-	-
1994-W30	2449630.59	1994 Oct 5 0203	MT-135P	-	MT135P-R902	-	-	-	-	RYO	-	-	-	60	-	-
1994-W31	2449637.58	1994 Oct 12 0200	MT-135P	-	MT135P-R903	-	-	-	-	RYO	-	-	-	60	-	-
1994-W32	2449644.59	1994 Oct 19 0203	MT-135P	-	MT135P-R904	-	-	-	-	RYO	-	-	-	60	-	-
1994-W33	2449651.58	1994 Oct 26 0200	MT-135P	-	MT135P-R905	-	-	-	-	RYO	-	-	-	60	-	-
1994-W34	2449665.58	1994 Nov 9 0200	MT-135P	-	MT135P-R906	-	-	-	-	RYO	-	-	-	60	-	-
1994-W35	2449672.59	1994 Nov 16 0215	MT-135P	-	MT135P-R907	-	-	-	-	RYO	-	-	-	60	-	-
1994-W36	2449679.58	1994 Nov 23 0200	MT-135P	-	MT135P-R908	-	-	-	-	RYO	-	-	-	60	-	-
1994-W37	2449693.58	1994 Dec 7 0200	MT-135P	-	MT135P-R909	-	-	-	-	RYO	-	-	-	60	-	-
1994-W38	2449701.58	1994 Dec 15 0200	MT-135P	-	MT135P-R910	-	-	-	-	RYO	-	-	-	60	-	-
1994-W39	2449708.58	1994 Dec 22 0200	MT-135P	-	MT135P-R911	-	-	-	-	RYO	-	-	-	60	-	-
1994-W40	2449714.58	1994 Dec 28 0200	MT-135P	-	MT135P-R912	-	-	-	-	RYO	-	-	-	60	-	-
1995-W01	2449729.59	1995 Jan 12 0203	MT-135P	-	MT135P-R913	-	-	-	-	RYO	-	-	-	60	-	-
1995-W02	2449735.58	1995 Jan 18 0200	MT-135P	-	MT135P-R914	-	-	-	-	RYO	-	-	-	60	-	-
1995-W03	2449742.59	1995 Jan 25 0210	MT-135P	-	MT135P-R915	-	-	-	-	RYO	-	-	-	60	-	-
1995-W18	2449757.59	1995 Feb 9 0203	MT-135P	-	MT135P-R916	-	-	-	-	RYO	-	-	-	60	-	-
1995-W19	2449763.59	1995 Feb 15 0203	MT-135P	-	MT135P-R917	-	-	-	-	RYO	-	-	-	60	-	-
1995-W20	2449770.58	1995 Feb 22 0200	MT-135P	-	MT135P-R918	-	-	-	-	RYO	-	-	-	60	-	-
1995-W21	2449784.58	1995 Mar 8 0200	MT-135P	-	MT135P-R919	-	-	-	-	RYO	-	-	-	60	-	-
1995-W15	2449798.58	1995 Mar 22 0200	MT-135P	-	MT135P-R920	-	-	-	-	RYO	-	-	-	60	-	-
1995-W16	2449805.58	1995 Mar 29 0200	MT-135P	-	MT135P-R921	-	-	-	-	RYO	-	-	-	60	-	-
1995-W17	2449833.60	1995 Apr 26 0220	MT-135P	-	MT135P-R922	-	-	-	-	RYO	-	-	-	60	-	-
1995-W22	2449847.58	1995 May 10 0200	MT-135P	-	MT135P-R923	-	-	-	-	RYO	-	-	-	60	-	-
1995-W23	2449854.59	1995 May 17 0208	MT-135P	-	MT135P-R924	-	-	-	-	RYO	-	-	-	60	-	-
1995-W24	2449861.60	1995 May 24 0217	MT-135P	-	MT135P-R925	-	-	-	-	RYO	-	-	-	60	-	-
1995-W25	2449868.59	1995 May 31 0205	MT-135P	-	MT135P-R926	-	-	-	-	RYO	-	-	-	60	-	-
1995-W26	2449875.59	1995 Jun 7 0203	MT-135P	-	MT135P-R927	-	-	-	-	RYO	-	-	-	60	-	-
1995-W27	2449889.59	1995 Jun 21 0207	MT-135P	-	MT135P-R928	-	-	-	-	RYO	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1995-W28	2449896.58	1995 Jun 28 0200	MT-135P	-	MT135P-R929	-	-	-	-	RYO	-	-	-	60	-	-
1995-W29	2449903.58	1995 Jul 5 0200	MT-135P	-	MT135P-R930	-	-	-	-	RYO	-	-	-	60	-	-
1995-W30	2449910.58	1995 Jul 12 0200	MT-135P	-	MT135P-R931	-	-	-	-	RYO	-	-	-	60	-	-
1995-W31	2449917.58	1995 Jul 19 0200	MT-135P	-	MT135P-R932	-	-	-	-	RYO	-	-	-	60	-	-
1995-W32	2449931.58	1995 Aug 2 0200	MT-135P	-	MT135P-R933	-	-	-	-	RYO	-	-	-	60	-	-
1995-W33	2449938.59	1995 Aug 9 0203	MT-135P	-	MT135P-R934	-	-	-	-	RYO	-	-	-	60	-	-
1995-W34	2449952.59	1995 Aug 23 0205	MT-135P	-	MT135P-R935	-	-	-	-	RYO	-	-	-	60	-	-
1995-W35	2449966.58	1995 Sep 6 0200	MT-135P	-	MT135P-R936	-	-	-	-	RYO	-	-	-	60	-	-
1995-W36	2449980.59	1995 Sep 20 0203	MT-135P	-	MT135P-R937	-	-	-	-	RYO	-	-	-	60	-	-
1995-W37	2449994.59	1995 Oct 4 0203	MT-135P	-	MT135P-R938	-	-	-	-	RYO	-	-	-	60	-	-
1995-W38	2450001.58	1995 Oct 11 0200	MT-135P	-	MT135P-R939	-	-	-	-	RYO	-	-	-	60	-	-
1995-W39	2450008.58	1995 Oct 18 0200	MT-135P	-	MT135P-R940	-	-	-	-	RYO	-	-	-	60	-	-
1995-W40	2450016.58	1995 Oct 26 0200	MT-135P	-	MT135P-R941	-	-	-	-	RYO	-	-	-	60	-	-
1995-W41	2450030.59	1995 Nov 9 0215	MT-135P	-	MT135P-R942	-	-	-	-	RYO	-	-	-	60	-	-
1995-W42	2450037.58	1995 Nov 16 0200	MT-135P	-	MT135P-R943	-	-	-	-	RYO	-	-	-	60	-	-
1995-W43	2450043.59	1995 Nov 22 0203	MT-135P	-	MT135P-R944	-	-	-	-	RYO	-	-	-	60	-	-
1995-W44	2450050.59	1995 Nov 29 0205	MT-135P	-	MT135P-R945	-	-	-	-	RYO	-	-	-	60	-	-
1995-W12	2450065.58	1995 Dec 14 0200:00	MT-135P	-	MT135P-R946	-	-	-	-	RYO	-	-	-	51	-	-
1995-W13	2450071.58	1995 Dec 20 0200:00	MT-135P	-	MT135P-R947	-	-	-	-	RYO	-	-	-	53	-	-
1995-W14	2450078.58	1995 Dec 27 0200:00	MT-135P	-	MT135P-R948	-	-	-	-	RYO	-	-	-	52	-	-
1996-W02	2450093.59	1996 Jan 11 0215:00	MT-135P	-	MT135P-R949	-	-	-	-	RYO	-	-	-	56	-	-
1996-W03	2450099.58	1996 Jan 17 0200:00	MT-135P	-	MT135P-R950	-	-	-	-	RYO	-	-	-	55	-	-
1996-W05	2450106.58	1996 Jan 24 0200:00	MT-135P	-	MT135P-R951	-	-	-	-	RYO	-	-	-	54	-	-
1996-W07	2450113.59	1996 Jan 31 0204:59	MT-135P	-	MT135P-R952	-	-	-	-	RYO	-	-	-	54	-	-
1996-W14	2450127.58	1996 Feb 14 0200	MT-135P	-	MT135P-R953	-	-	-	-	RYO	-	-	-	60	-	-
1996-W08	2450341.60	1996 Sep 15 0230	MT-135	-	MT-135-64	NNP-03	-	-	-	KASC	-	-	-	56	-	-
1996-W09	2450421.59	1996 Dec 4 0203:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
1996-W10	2450428.58	1996 Dec 11 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1996-W11	2450435.58	1996 Dec 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1996-W13	2450442.58	1996 Dec 25 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W01	2450456.59	1997 Jan 8 0204:59	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W03	2450461.58	1997 Jan 13 0200	MT-135	-	MT-135-65	NNP-03	-	-	-	KASC	-	-	-	55	-	-
1997-W04	2450463.58	1997 Jan 15 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W05	2450470.58	1997 Jan 22 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W06	2450477.59	1997 Jan 29 0204:59	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W07	2450491.58	1997 Feb 12 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W08	2450498.59	1997 Feb 19 0210:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W10	2450512.58	1997 Mar 5 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W11	2450526.58	1997 Mar 19 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W12	2450533.58	1997 Mar 26 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W15	2450547.58	1997 Apr 9 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1997-W17	2450554.58	1997 Apr 16 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W19	2450568.58	1997 Apr 30 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
1997-W21	2450590.59	1997 May 22 0203:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W22	2450596.58	1997 May 28 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W24	2450610.58	1997 Jun 11 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W25	2450617.58	1997 Jun 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W27	2450624.58	1997 Jun 25 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W29	2450639.58	1997 Jul 10 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
1997-W33	2450646.58	1997 Jul 17 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1997-W34	2450652.58	1997 Jul 23 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W42	2450666.58	1997 Aug 6 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
1997-W57	2450673.58	1997 Aug 13 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
1997-W65	2450687.58	1997 Aug 27 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W68	2450699.58	1997 Sep 8 0200	MT-135	-	MT-135-66	-	-	-	-	KASC	-	-	-	50	-	-
1997-W69	2450700.58	1997 Sep 9 0200	MT-135	-	MT-135-67	-	-	-	-	KASC	-	-	-	52	-	-
1997-W70	2450701.59	1997 Sep 10 0210:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W72	2450709.58	1997 Sep 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W73	2450722.58	1997 Oct 1 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
1997-W74	2450729.58	1997 Oct 8 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W76	2450743.58	1997 Oct 22 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W79	2450757.58	1997 Nov 5 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-W80	2450764.58	1997 Nov 12 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1997-A35	2450771.58	1997 Nov 19 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	42	-	-
1997-W81	2450785.58	1997 Dec 3 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
1997-W82	2450792.58	1997 Dec 10 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1997-W83	2450799.58	1997 Dec 17 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1997-W84	2450806.58	1997 Dec 24 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W01	2450821.58	1998 Jan 8 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W02	2450827.58	1998 Jan 14 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W03	2450834.58	1998 Jan 21 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W04	2450848.58	1998 Feb 4 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W06	2450855.58	1998 Feb 11 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	51	-	-
1998-W07	2450862.58	1998 Feb 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W09	2450876.58	1998 Mar 4 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W10	2450890.58	1998 Mar 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W11	2450897.58	1998 Mar 25 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W12	2450911.59	1998 Apr 8 0207:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W14	2450919.58	1998 Apr 16 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W15	2450932.58	1998 Apr 29 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W17	2450953.58	1998 May 20 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	51	-	-
1998-W18	2450960.58	1998 May 27 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1998-W20	2450975.59	1998 Jun 11 0204:59	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W21	2450981.58	1998 Jun 17 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1998-W22	2450988.58	1998 Jun 24 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1998-W23	2451003.58	1998 Jul 9 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1998-W24	2451009.59	1998 Jul 15 0203:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W25	2451023.58	1998 Jul 29 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W26	2451030.58	1998 Aug 5 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
1998-W27	2451045.58	1998 Aug 20 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W28	2451063.58	1998 Sep 7 0200	MT-135	-	MT-135-68	Ozone	-	-	-	KASC	-	-	-	57	-	-
1998-W29	2451065.58	1998 Sep 9 0200	MT-135	-	MT-135-69	-	-	-	-	KASC	-	-	-	57	-	-
1998-W30	2451065.58	1998 Sep 9 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W31	2451073.58	1998 Sep 17 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W32	2451079.59	1998 Sep 23 0203:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W33	2451093.58	1998 Oct 7 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
1998-W34	2451100.58	1998 Oct 14 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W36	2451107.58	1998 Oct 21 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W37	2451121.58	1998 Nov 4 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
1998-W38	2451128.58	1998 Nov 11 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W39	2451135.58	1998 Nov 18 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
1998-W40	2451149.58	1998 Dec 2 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
1998-W41	2451170.58	1998 Dec 23 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
1999-W31	2451428.58	1999 Sep 7 0200	MT-135	-	MT-135-70	-	-	-	-	KASC	-	-	-	55	-	-
1999-W33	2451432.58	1999 Sep 11 0200	MT-135	-	MT-135-71	-	-	-	-	KASC	-	-	-	55	-	-
2000-W01	2451555.58	2000 Jan 12 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
2000-W02	2451562.58	2000 Jan 19 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
2000-W04	2451569.58	2000 Jan 26 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
2000-W05	2451583.58	2000 Feb 9 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	57	-	-
2000-W06	2451598.58	2000 Feb 24 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W07	2451618.58	2000 Mar 15 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W08	2451646.58	2000 Apr 12 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
2000-W09	2451653.59	2000 Apr 19 0210:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
2000-W14	2451689.58	2000 May 25 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
2000-W15	2451695.58	2000 May 31 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W16	2451716.58	2000 Jun 21 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	56	-	-
2000-W17	2451724.58	2000 Jun 29 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W18	2451731.58	2000 Jul 6 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W19	2451744.58	2000 Jul 19 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W20	2451759.58	2000 Aug 3 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	50	-	-
2000-W21	2451779.58	2000 Aug 23 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
2000-W22	2451794.58	2000 Sep 7 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
2000-W23	2451805.58	2000 Sep 18 0200:00	MT-135	-	MT-135-72	Ozone	-	-	-	KASC	-	-	-	55	-	-
2000-W24	2451806.58	2000 Sep 19 0200:00	MT-135	-	MT-135-73	Ozone	-	-	-	KASC	-	-	-	53	-	-
2000-W25	2451807.58	2000 Sep 20 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	54	-	-
2000-W26	2451821.58	2000 Oct 4 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	55	-	-
2000-W27	2451836.58	2000 Oct 19 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	51	-	-
2000-W28	2451849.59	2000 Nov 1 0215:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
2000-W29	2451863.58	2000 Nov 15 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
2000-W30	2451870.59	2000 Nov 22 0215:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
2000-W31	2451885.58	2000 Dec 7 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	53	-	-
2000-W34	2451898.58	2000 Dec 20 0200:00	MT-135P	-	-	-	-	-	-	RYO	-	-	-	52	-	-
2001-W01	2451989.50	2001 Mar 21	MT-135	-	MT-135 R1119	Last flight	-	-	-	KASC	-	-	-	55?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-W16	2438483.59	1964 Mar 29 0212	MT-135	-	PT-135-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1964-A108	2438600.59	1964 Jul 24 0207:00	MT-135	-	MT-135-001	0.000	ISAS	SS	-	JMA/	Aeron	WDCRF	-	-
1964-W106	2438713.59	1964 Nov 14 0210:00	MT-135	-	MT-135-002	0.000	ISAS	SS	-	JMA/	Aeron	WDCRF	SR6-1121	-
1964-W107	2438714.80	1964 Nov 15 0710:00	MT-135	-	MT-135-003	0.000	ISAS	SS	-	JMA/	Aeron	WDCRF	SR6-1121	-
1965-W35	2438828.59	1965 Mar 09 0210:00	MT-135	-	MT-135-004	0.000	ISAS	SS	-	JMA/	Aeron	WDCRF	-	-
1965-W39	2438830.59	1965 Mar 11 0207:00	MT-135	-	MT-135-005	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	SR6-1121	-
1965-W40	2438830.80	1965 Mar 11 0707:00	MT-135	-	MT-135-006	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	SR6-1121	-
1965-W94	2438949.60	1965 Jul 08 0226:00	MT-135	-	MT-135-007	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1965-W95	2438949.97	1965 Jul 08 1110:00	MT-135	-	MT-135-008	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1965-W96	2438953.59	1965 Jul 12 0207:00	MT-135	-	MT-135-009	0.000	ISAS	SF	U	JMA/Arizumi	Aeron	WDCRF	-	-
1965-A137	2439032.58	1965 Sep 29 0200:00	MT-135	-	MT-135-010	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1965-W136	2439032.79	1965 Sep 29 0700:00	MT-135	-	MT-135-011	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W19	2439143.59	1966 Jan 18 0210:00	MT-135	-	MT-135-012	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-A17	2439144.94	1966 Jan 19 1030:00	MT-135	-	MT-135-014	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W21	2439144.58	1966 Jan 19 0200:00	MT-135	-	MT-135-013	0.000	ISAS	SU	-	JMA/Yoshitake	Aeron	WDCRF	-	-
1966-W246	2439245.60	1966 Apr 30 0220:00	MT-135	-	MT-135-015	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W247	2439245.94	1966 Apr 30 1040:00	MT-135	-	MT-135-016	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W249	2439247.58	1966 May 02 0200:00	MT-135	-	MT-135-017	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-A98	2439348.73	1966 Aug 11 0530	MT-135	-	IT-135-1	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1966-W307	2439355.58	1966 Aug 18 0200:00	MT-135	-	MT-135-018	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W336	2439389.59	1966 Sep 21 0210	MT-135	-	DT-135-1	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1966-A120	2439411.60	1966 Oct 13 0225:00	MT-135	-	MT-135-019	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1966-W351	2439411.68	1966 Oct 13 0420:00	MT-135	-	MT-135-A -020	0.000	ISAS	SU	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W26	2439509.58	1967 Jan 19 0200:00	MT-135	-	MT-135-021	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W29	2439512.58	1967 Jan 22 0200:00	MT-135	-	MT-135-022	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W30	2439512.71	1967 Jan 22 0500:00	MT-135	-	MT-135-023	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W31	2439512.83	1967 Jan 22 0800:00	MT-135	-	MT-135-024	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W33	2439514.58	1967 Jan 24 0200:00	MT-135	-	MT-135-025	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-W74	2439581.27	1967 Mar 31 1828	MT-135	-	MT-135-026?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W76	2439584.88	1967 Apr 4 0910	MT-135	-	MT-135-027?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W78	2439584.91	1967 Apr 4 0955	MT-135	-	MT-135-028?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W80	2439584.96	1967 Apr 4 1107	MT-135	-	MT-135-029?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W82	2439585.00	1967 Apr 4 1156	MT-135	-	MT-135-030?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W83	2439585.19	1967 Apr 4 1628	MT-135	-	MT-135-031?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W86	2439585.45	1967 Apr 4 2244	MT-135	-	MT-135-032?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W88	2439585.51	1967 Apr 5 0015	MT-135	-	MT-135-033?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W90	2439585.54	1967 Apr 5 0101	MT-135	-	MT-135-034?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1967-W92	2439585.65	1967 Apr 5 0333	MT-135	-	MT-135-035?	0.000	NASA/JMA	SS	-	JMA/	Aeron	ISTS7	JApMeteo7,390	-
1968-W184	2440114.58	1968 Sep 15 0200:00	MT-135	-	MT-135-036	0.000	ISAS	SS	-	JMA/Sakai	Aeron	WDCRF	-	-
1968-W185	2440114.72	1968 Sep 15 0518:00	MT-135	-	MT-135-037	0.000	ISAS	SS	-	JMA/Sakai	Aeron	WDCRF	-	-
1969-W18	2440225.58	1969 Jan 04 0200:00	MT-135	-	MT-135-038	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1969-W19	2440225.71	1969 Jan 04 0500:00	MT-135	-	MT-135-039	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1969-W20	2440226.58	1969 Jan 5 0200	MT-135	-	MT-135-40	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1969-A06	2440226.71	1969 Jan 5 0500	MT-135P	-	MT-135P-1	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1969-W1192	2440470.58	1969 Sep 06 0200:00	MT-135	-	MT-135-041	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1969-W1195	2440471.71	1969 Sep 07 0500:00	MT-135	-	MT-135-042	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1969-W1194	2440471.58	1969 Sep 07 0200:00	MT-135P	-	MT-135-P -002	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1969-W1315	2440491.59	1969 Sep 27 0205:00	MT-135P	-	MT-135-P -003	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1969-A164	2440491.71	1969 Sep 27 0500:00	MT-135	-	MT-135-043	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1970-W142	2440608.71	1970 Jan 22 0500:00	MT-135P	-	MT-135-P -004	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1970-W145	2440609.60	1970 Jan 23 0220:00	MT-135P	-	MT-135-P -005	0.000	ISAS	SS	-	JMA/Shimizu	Aeron	WDCRF	-	-
1970-A142	2440782.58	1970 Jul 15 0200	MT-135P	-	MT135P-R1	0.000	JMA	SF	U	JMA/	Aeron	RISRJ	-	-
1970-W1144	2440803.58	1970 Aug 5 0200	MT-135P	-	MT135P-R2	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A143	2440817.59	1970 Aug 19 0210	MT-135P	-	MT135P-R3	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A144	2440831.60	1970 Sep 2 0220	MT-135P	-	MT135P-R4	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A145	2440860.59	1970 Oct 1 0205	MT-135P	-	MT135P-R5	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A146	2440873.58	1970 Oct 14 0200	MT-135P	-	MT135P-R7	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-W1898	2440887.58	1970 Oct 28 0200	MT-135P	-	MT135P-R8	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-W1899	2440902.58	1970 Nov 12 0200	MT-135P	-	MT135P-R6	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A147	2440915.58	1970 Nov 25 0200	MT-135P	-	MT135P-R9	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-A148	2440930.58	1970 Dec 10 0200	MT-135P	-	MT135P-R10	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1970-W1900	2440943.60	1970 Dec 23 0220	MT-135P	-	MT135P-R11	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1692	2440957.58	1971 Jan 6 0201	MT-135P	-	MT135P-R12	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-A113	2440964.58	1971 Jan 13 0200	MT-135P	-	MT135P-R13	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1693	2440971.58	1971 Jan 20 0200	MT-135P	-	MT135P-R14	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-A114	2440978.58	1971 Jan 27 0200	MT-135P	-	MT135P-R15	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1694	2440985.58	1971 Feb 3 0200	MT-135P	-	MT135P-R16	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1695	2440993.58	1971 Feb 11 0200	MT-135P	-	MT135P-R17	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1696	2441000.58	1971 Feb 18 0200	MT-135P	-	MT135P-R18	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-A115	2441014.58	1971 Mar 4 0200	MT-135P	-	MT135P-R19	0.000	JMA	SF	U	JMA/	Aeron	RISRJ	-	-
1971-W1697	2441021.58	1971 Mar 11 0200	MT-135P	-	MT135P-R20	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1698	2441034.58	1971 Mar 24 0200	MT-135P	-	MT135P-R21	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1699	2441048.58	1971 Apr 7 0200	MT-135P	-	MT135P-R22	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1700	2441062.58	1971 Apr 21 0200	MT-135P	-	MT135P-R23	0.000	JMA	SS	-	JMA/	Aeron	RISRJ	-	-
1971-W1701	2441077.58	1971 May 6 0200	MT-135P	-	MT135P-R24	0.000	JMA	SS	-	JMA/	Aeron	SR12,607	-	-
1971-W1702	2441083.58	1971 May 12 0200	MT-135P	-	MT135P-R25	0.000	JMA	SS	-	JMA/	Aeron	SR12,607	-	-
1972-W170	2441349.79	1972 Feb 2 0656	MT-135P	-	MT135P T1	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1972-W190	2441354.78	1972 Feb 7 0645	MT-135P	-	MT135P T2	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1972-M26	2441393.14	1972 Mar 16 1516	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Aeron	FDC	-	-
1972-M25	2441397.36	1972 Mar 20 2032	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Aeron	FDC	-	-
1972-W1098	2441559.56	1972 Aug 30 0130	MT-135P	-	MT135P T3	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1972-W1099	2441559.76	1972 Aug 30 0615	MT-135P	-	MT135P T4	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1973-W181	2441718.58	1973 Feb 5 0152	MT-135P	-	MT135P T5	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1973-W203	2441721.56	1973 Feb 8 0130	MT-135P	-	MT135P T6	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1973-W1122	2441930.58	1973 Sep 5 0157	MT-135P	-	MT135P T7	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1973-W1123	2441930.77	1973 Sep 5 0630	MT-135P	-	MT135P T8	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1626	2442076.58	1974 Jan 29 0200	MT-135P	-	MT135P-R139	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1627	2442056.58	1974 Jan 9 0200	MT-135P	-	MT135P-R144	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1628	2442070.58	1974 Jan 23 0200	MT-135P	-	MT135P-R145	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1629	2442078.58	1974 Jan 31 0200	MT-135P	-	MT135P-R146	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W159	2442080.56	1974 Feb 2 0130	MT-135P	-	MT135P T9	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1974-W1630	2442084.59	1974 Feb 6 0205	MT-135P	-	MT135P-R147	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W183	2442088.77	1974 Feb 10 0630	MT-135P	-	MT135P T10	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1974-W1631	2442098.58	1974 Feb 20 0200	MT-135P	-	MT135P-R148	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1632	2442105.58	1974 Feb 27 0200	MT-135P	-	MT135P-R149	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1633	2442119.59	1974 Mar 13 0204	MT-135P	-	MT135P-R150	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1634	2442126.58	1974 Mar 20 0200	MT-135P	-	MT135P-R160	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1635	2442133.58	1974 Mar 27 0200	MT-135P	-	MT135P-R151	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1636	2442141.58	1974 Apr 4 0200	MT-135P	-	MT135P-R152	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1637	2442147.59	1974 Apr 10 0209	MT-135P	-	MT135P-R153	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1638	2442154.59	1974 Apr 17 0205	MT-135P	-	MT135P-R154	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1639	2442161.58	1974 Apr 24 0200	MT-135P	-	MT135P-R155	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1640	2442168.58	1974 May 1 0200	MT-135P	-	MT135P-R156	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1641	2442175.58	1974 May 8 0200	MT-135P	-	MT135P-R158	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1642	2442183.58	1974 May 16 0200	MT-135P	-	MT135P-R157	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1643	2442189.59	1974 May 22 0210	MT-135P	-	MT135P-R159	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1644	2442211.60	1974 Jun 13 0230	MT-135P	-	MT135P-R161	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1645	2442224.58	1974 Jun 26 0200	MT-135P	-	MT135P-R162	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1646	2442245.59	1974 Jul 17 0205	MT-135P	-	MT135P-R163	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1647	2442252.60	1974 Jul 24 0220	MT-135P	-	MT135P-R164	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1648	2442266.58	1974 Aug 7 0200	MT-135P	-	MT135P-R165	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1649	2442280.58	1974 Aug 21 0200	MT-135P	-	MT135P-R166	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1650	2442287.59	1974 Aug 28 0205	MT-135P	-	MT135P-R167	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1119	2442293.56	1974 Sep 3 0130	MT-135P	-	MT135P T11	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1974-W1120	2442293.75	1974 Sep 3 0600	MT-135P	-	MT135P T12	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1974-W1651	2442294.59	1974 Sep 4 0210	MT-135P	-	MT135P-R169	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1652	2442301.58	1974 Sep 11 0200	MT-135P	-	MT135P-R170	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1653	2442308.60	1974 Sep 18 0230	MT-135P	-	MT135P-R168	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1654	2442322.58	1974 Oct 2 0200	MT-135P	-	MT135P-R171	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1655	2442329.58	1974 Oct 9 0200	MT-135P	-	MT135P-R172	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1656	2442336.58	1974 Oct 16 0200	MT-135P	-	MT135P-R173	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1657	2442350.58	1974 Oct 30 0200	MT-135P	-	MT135P-R174	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1658	2442357.58	1974 Nov 6 0200	MT-135P	-	MT135P-R175	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1659	2442364.58	1974 Nov 13 0200	MT-135P	-	MT135P-R176	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1660	2442371.58	1974 Nov 20 0200	MT-135P	-	MT135P-R177	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1661	2442378.58	1974 Nov 27 0202	MT-135P	-	MT135P-R178	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1662	2442385.58	1974 Dec 4 0200	MT-135P	-	MT135P-R179	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1663	2442392.58	1974 Dec 11 0200	MT-135P	-	MT135P-R180	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1974-W1664	2442406.58	1974 Dec 25 0200	MT-135P	-	MT135P-R181	0.000	JMA	SS	-	JMA/	Meteo	RISRJ	-	-
1975-W111	2442442.56	1975 Jan 30 0130	MT-135P	-	MT135P T13	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1975-W146	2442450.54	1975 Feb 7 0100	MT-135P	-	MT135P T14	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1975-W1009	2442665.56	1975 Sep 10 0130	MT-135P	-	MT135P T15	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1976-W1346	2443044.56	1976 Sep 23 0130	MT-135P	-	MT135P T16	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1976-W1362	2443046.56	1976 Sep 25 0130	MT-135P	-	MT135P T17	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1977-W400	2443198.56	1977 Feb 24 0130	MT-135P	-	MT135P T18	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1977-W1390	2443378.56	1977 Aug 23 0130	MT-135P	-	MT135P T19	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1977-W1402	2443381.56	1977 Aug 26 0130	MT-135P	-	MT135P T20	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1978-W192	2443556.56	1978 Feb 17 0130	MT-135P	-	MT135P T21	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1978-W881	2443744.57	1978 Aug 24 0145	MT-135P	-	MT135P T22	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1978-W889	2443746.56	1978 Aug 26 0130	MT-135P	-	MT135P T23	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1979-W1465	2443883.58	1979 Jan 10 0200	MT-135P	-	MT135P-R336	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1466	2443890.59	1979 Jan 17 0210	MT-135P	-	MT135P-R337	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1467	2443897.59	1979 Jan 24 0204	MT-135P	-	MT135P-R338	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1468	2443904.59	1979 Jan 31 0207	MT-135P	-	MT135P-R339	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W201	2443911.56	1979 Feb 7 0130	MT-135P	-	MT135P T24	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1979-W1469	2443911.58	1979 Feb 7 0200	MT-135P	-	MT135P-R340	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1470	2443918.58	1979 Feb 14 0202	MT-135P	-	MT135P-R341	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1471	2443925.58	1979 Feb 21 0200	MT-135P	-	MT135P-R342	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1472	2443939.58	1979 Mar 7 0200	MT-135P	-	MT135P-R343	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1473	2443946.58	1979 Mar 14 0200	MT-135P	-	MT135P-R344	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1474	2443960.58	1979 Mar 28 0200	MT-135P	-	MT135P-R345	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1475	2443974.59	1979 Apr 11 0204	MT-135P	-	MT135P-R346	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1476	2443981.59	1979 Apr 18 0211	MT-135P	-	MT135P-R347	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1477	2443988.58	1979 Apr 25 0200	MT-135P	-	MT135P-R348	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1478	2444002.58	1979 May 9 0200	MT-135P	-	MT135P-R349	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1479	2444009.59	1979 May 16 0215	MT-135P	-	MT135P-R350	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1480	2444016.58	1979 May 23 0200	MT-135P	-	MT135P-R351	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1481	2444023.58	1979 May 30 0200	MT-135P	-	MT135P-R352	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1482	2444030.58	1979 Jun 6 0200	MT-135P	-	MT135P-R353	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1483	2444044.58	1979 Jun 20 0200	MT-135P	-	MT135P-R354	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W843	2444058.58	1979 Jul 4 0200	MT-135P	-	MT135P-R355	0.000	JMA	SS	-	JMA/	Meteo	SRJ	DSI-5850	-
1979-W902	2444072.58	1979 Jul 18 0200	MT-135P	-	MT135P-R356	0.000	JMA	SS	-	JMA/	Meteo	SRJ	DSI-5850	-
1979-W952	2444086.58	1979 Aug 1 0200	MT-135P	-	MT135P-R357	0.000	JMA	SS	-	JMA/	Meteo	SRJ	DSI-5850	-
1979-W997	2444100.58	1979 Aug 15 0200	MT-135P	-	MT135P-R358	0.000	JMA	SS	-	JMA/	Meteo	SRJ	DSI-5850	-
1979-W1032	2444112.56	1979 Aug 27 0130	MT-135P	-	MT135P T25	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1979-W1033	2444112.75	1979 Aug 27 0600	MT-135P	-	MT135P T26	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1979-W1484	2444122.58	1979 Sep 6 0200	MT-135P	-	MT135P-R359	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1979-W1086	2444128.59	1979 Sep 12 0203	MT-135P	-	MT135P-R360	0.000	JMA	SS	-	JMA/	Meteo	SRJ	DSI-5850	-
1979-W1143	2444142.58	1979 Sep 26 0200:00	MT-135P	-	MT135P-R361	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1172	2444149.58	1979 Oct 3 0200:00	MT-135P	-	MT135P-R362	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1217	2444163.58	1979 Oct 17 0200:00	MT-135P	-	MT135P-R363	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1249	2444170.58	1979 Oct 24 0200:00	MT-135P	-	MT135P-R364	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1310	2444184.59	1979 Nov 7 0214:00	MT-135P	-	MT135P-R365	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1332	2444191.58	1979 Nov 14 0200:00	MT-135P	-	MT135P-R366	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1485	2444205.58	1979 Nov 28 0200	MT-135P	-	MT135P-R367	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1389	2444212.58	1979 Dec 5 0200:00	MT-135P	-	MT135P-R369	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1404	2444219.58	1979 Dec 12 0200:00	MT-135P	-	MT135P-R368	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1427	2444226.58	1979 Dec 19 0200:00	MT-135P	-	MT135P-R370	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1979-W1452	2444233.58	1979 Dec 26 0201:00	MT-135P	-	MT135P-R371	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W28	2444247.58	1980 Jan 9 0200:00	MT-135P	-	MT135P-R372	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W52	2444254.58	1980 Jan 16 0200:00	MT-135P	-	MT135P-R373	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W75	2444261.58	1980 Jan 23 0200:00	MT-135P	-	MT135P-R374	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W137	2444282.58	1980 Feb 13 0200:00	MT-135P	-	MT135P-R375	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W164	2444289.58	1980 Feb 20 0200:00	MT-135P	-	MT135P-R376	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W176	2444292.58	1980 Feb 23 0155	MT-135P	-	MT135P T27	0.000	NASDA	SS	-	NASDA/	Aeron-	NASDA-WWW	-	-
1980-W1149	2444296.58	1980 Feb 27 0200	MT-135P	-	MT135P-R377	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1980-W223	2444303.58	1980 Mar 5 0202:00	MT-135P	-	MT135P-R378	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1150	2444311.60	1980 Mar 13 0220	MT-135P	-	MT135P-R379	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1980-W277	2444317.58	1980 Mar 19 0200:00	MT-135P	-	MT135P-R380	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W305	2444324.58	1980 Mar 26 0200:00	MT-135P	-	MT135P-R381	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W346	2444338.59	1980 Apr 9 0204:59	MT-135P	-	MT135P-R382	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W375	2444345.59	1980 Apr 16 0210:00	MT-135P	-	MT135P-R383	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W424	2444359.59	1980 Apr 30 0215:00	MT-135P	-	MT135P-R384	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W454	2444367.58	1980 May 8 0201:00	MT-135P	-	MT135P-R385	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W472	2444373.58	1980 May 14 0200:00	MT-135P	-	MT135P-R386	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W497	2444380.58	1980 May 21 0200:00	MT-135P	-	MT135P-R387	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W519	2444387.59	1980 May 28 0210:00	MT-135P	-	MT135P-R388	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W545	2444394.58	1980 Jun 4 0200:00	MT-135P	-	MT135P-R389	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W574	2444401.58	1980 Jun 11 0201:00	MT-135P	-	MT135P-R390	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W624	2444415.59	1980 Jun 25 0203:00	MT-135P	-	MT135P-R391	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1151	2444429.60	1980 Jul 9 0228	MT-135P	-	MT135P-R392	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1980-W701	2444443.58	1980 Jul 23 0200:00	MT-135P	-	MT135P-R393	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W744	2444457.58	1980 Aug 6 0200:00	MT-135P	-	MT135P-R394	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W786	2444471.58	1980 Aug 20 0201:00	MT-135P	-	MT135P-R395	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W821	2444485.58	1980 Sep 3 0200:00	MT-135P	-	MT135P-R396	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W862	2444495.56	1980 Sep 13 0130	MT-135P	-	MT135P T28	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1980-W864	2444497.56	1980 Sep 15 0130	MT-135P	-	MT135P T29	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1980-W874	2444499.58	1980 Sep 17 0200:00	MT-135P	-	MT135P-R397	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W920	2444513.59	1980 Oct 1 0213:00	MT-135P	-	MT135P-R398	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W943	2444520.59	1980 Oct 8 0204:59	MT-135P	-	MT135P-R399	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W983	2444534.59	1980 Oct 22 0210:00	MT-135P	-	MT135P-R400	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1006	2444541.58	1980 Oct 29 0200:00	MT-135P	-	MT135P-R401	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1034	2444555.58	1980 Nov 12 0200:00	MT-135P	-	MT135P-R402	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1152	2444562.58	1980 Nov 19 0200	MT-135P	-	MT135P-R403	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1980-W1069	2444569.58	1980 Nov 26 0200:00	MT-135P	-	MT135P-R404	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1085	2444576.58	1980 Dec 3 0202:00	MT-135P	-	MT135P-R405	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1104	2444583.58	1980 Dec 10 0200:00	MT-135P	-	MT135P-R406	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1980-W1121	2444590.59	1980 Dec 17 0203:00	MT-135P	-	MT135P-R407	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W04	2444611.59	1981 Jan 7 0203:59	MT-135P	-	MT135P-R408	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W11	2444618.58	1981 Jan 14 0200:00	MT-135P	-	MT135P-R409	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W31	2444626.58	1981 Jan 22 0200:00	MT-135P	-	MT135P-R410	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W40	2444632.60	1981 Jan 28 0229:00	MT-135P	-	MT135P-R411	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W50	2444639.59	1981 Feb 4 0204:59	MT-135P	-	MT135P-R412	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W79	2444647.56	1981 Feb 12 0130	MT-135P	-	MT135P T30	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1981-W90	2444653.58	1981 Feb 18 0200:00	MT-135P	-	MT135P-R413	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W120	2444661.58	1981 Feb 26 0200:00	MT-135P	-	MT135P-R414	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W159	2444674.58	1981 Mar 11 0201:00	MT-135P	-	MT135P-R415	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W175	2444681.59	1981 Mar 18 0203:59	MT-135P	-	MT135P-R416	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W198	2444689.59	1981 Mar 26 0203:59	MT-135P	-	MT135P-R417	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W232	2444702.58	1981 Apr 8 0200:00	MT-135P	-	MT135P-R418	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W277	2444709.58	1981 Apr 15 0200:00	MT-135P	-	MT135P-R419	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W288	2444716.59	1981 Apr 22 0203:59	MT-135P	-	MT135P-R420	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W308	2444723.58	1981 Apr 29 0200:00	MT-135P	-	MT135P-R421	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W337	2444737.59	1981 May 13 0215:59	MT-135P	-	MT135P-R422	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W354	2444744.58	1981 May 20 0200:00	MT-135P	-	MT135P-R423	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W372	2444751.59	1981 May 27 0203:00	MT-135P	-	MT135P-R424	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W412	2444765.58	1981 Jun 10 0200:00	MT-135P	-	MT135P-R425	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W442	2444779.58	1981 Jun 24 0200:00	MT-135P	-	MT135P-R426	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W474	2444793.58	1981 Jul 8 0200:00	MT-135P	-	MT135P-R427	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W503	2444808.58	1981 Jul 23 0200:00	MT-135P	-	MT135P-R428	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W534	2444822.59	1981 Aug 6 0207:00	MT-135P	-	MT135P-R429	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W558	2444836.58	1981 Aug 20 0200:00	MT-135P	-	MT135P-R430	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W579	2444849.60	1981 Sep 2 0220:00	MT-135P	-	MT135P-R431	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W828	2444864.58	1981 Sep 17 0200	MT-135P	-	MT135P-R432	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1981-W641	2444877.58	1981 Sep 30 0200:00	MT-135P	-	MT135P-R433	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W663	2444884.58	1981 Oct 7 0200:00	MT-135P	-	MT135P-R434	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W829	2444898.58	1981 Oct 21 0200	MT-135P	-	MT135P-R435	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1981-W696	2444905.58	1981 Oct 28 0200:00	MT-135P	-	MT135P-R436	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W723	2444919.58	1981 Nov 11 0202:00	MT-135P	-	MT135P-R437	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W756	2444927.58	1981 Nov 19 0200:00	MT-135P	-	MT135P-R438	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W766	2444933.59	1981 Nov 25 0204:59	MT-135P	-	MT135P-R439	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W782	2444941.58	1981 Dec 3 0200:00	MT-135P	-	MT135P-R440	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W794	2444947.59	1981 Dec 9 0204:59	MT-135P	-	MT135P-R441	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W808	2444954.58	1981 Dec 16 0200:00	MT-135P	-	MT135P-R442	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1981-W821	2444961.58	1981 Dec 23 0200:00	MT-135P	-	MT135P-R443	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W06	2444975.58	1982 Jan 6 0200:00	MT-135P	-	MT135P-R444	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W20	2444982.58	1982 Jan 13 0200:00	MT-135P	-	MT135P-R445	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W47	2444990.58	1982 Jan 21 0200:00	MT-135P	-	MT135P-R446	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W64	2444996.58	1982 Jan 27 0200:00	MT-135P	-	MT135P-R447	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W86	2445002.56	1982 Feb 2 0130	MT-135P	-	MT135P T31	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1982-W88	2445003.56	1982 Feb 3 0130	MT-135P	-	MT135P T32	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1982-W89	2445003.59	1982 Feb 3 0215:59	MT-135P	-	MT135P-R448	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W121	2445017.58	1982 Feb 17 0200:00	MT-135P	-	MT135P-R449	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-A04	2445024.58	1982 Feb 24 0200:00	MT-135P	-	MT135P-R450	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-A06	2445038.58	1982 Mar 10 0201:00	MT-135P	-	MT135P-R451	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-A08	2445045.60	1982 Mar 17 0220:00	MT-135P	-	MT135P-R452	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W200	2445052.58	1982 Mar 24 0201:00	MT-135P	-	MT135P-R453	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W236	2445066.58	1982 Apr 7 0200:00	MT-135P	-	MT135P-R454	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W243	2445073.58	1982 Apr 14 0202:00	MT-135P	-	MT135P-R455	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W258	2445080.58	1982 Apr 21 0200:00	MT-135P	-	MT135P-R456	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W515	2445087.58	1982 Apr 28 0200	MT-135P	-	MT135P-R457	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1982-W285	2445101.58	1982 May 12 0200:00	MT-135P	-	MT135P-R458	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-A12	2445108.58	1982 May 19 0200:00	MT-135P	-	MT135P-R459	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W302	2445115.58	1982 May 26 0200:00	MT-135P	-	MT135P-R460	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W313	2445122.58	1982 Jun 2 0202:00	MT-135P	-	MT135P-R461	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W322	2445129.58	1982 Jun 9 0202:00	MT-135P	-	MT135P-R462	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W331	2445143.58	1982 Jun 23 0200:00	MT-135P	-	MT135P-R463	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W355	2445157.58	1982 Jul 7 0200:00	MT-135P	-	MT135P-R464	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W371	2445171.60	1982 Jul 21 0225:00	MT-135P	-	MT135P-R465	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W378	2445186.58	1982 Aug 5 0200:00	MT-135P	-	MT135P-R466	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W384	2445199.59	1982 Aug 18 0212:00	MT-135P	-	MT135P-R467	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W396	2445213.58	1982 Sep 1 0200:00	MT-135P	-	MT135P-R468	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W401	2445217.56	1982 Sep 5 0130	MT-135P	-	MT135P T33	0.000	NASDA	SS	-	NASDA/	Aeron?	NASDA-WWW	-	-
1982-W403	2445220.58	1982 Sep 8 0200:00	MT-135P	-	MT135P-R469	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W406	2445227.58	1982 Sep 15 0200:00	MT-135P	-	MT135P-R470	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W418	2445241.58	1982 Sep 29 0200:00	MT-135P	-	MT135P-R471	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W427	2445249.58	1982 Oct 7 0200:00	MT-135P	-	MT135P-R472	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W435	2445263.58	1982 Oct 21 0200:00	MT-135P	-	MT135P-R473	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W438	2445269.58	1982 Oct 27 0200:00	MT-135P	-	MT135P-R474	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W449	2445283.58	1982 Nov 10 0200:00	MT-135P	-	MT135P-R475	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W473	2445291.58	1982 Nov 18 0200:00	MT-135P	-	MT135P-R476	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W488	2445305.58	1982 Dec 2 0200:00	MT-135P	-	MT135P-R477	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W494	2445311.58	1982 Dec 8 0200:00	MT-135P	-	MT135P-R478	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W500	2445318.58	1982 Dec 15 0200:00	MT-135P	-	MT135P-R479	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1982-W510	2445332.58	1982 Dec 29 0200:00	MT-135P	-	MT135P-R480	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W07	2445346.58	1983 Jan 12 0200:00	MT-135P	-	MT135P-R481	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W14	2445353.58	1983 Jan 19 0200:00	MT-135P	-	MT135P-R482	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W21	2445360.60	1983 Jan 26 0218:00	MT-135P	-	MT135P-R483	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W26	2445368.58	1983 Feb 3 0200:00	MT-135P	-	MT135P-R484	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W36	2445381.58	1983 Feb 16 0201:00	MT-135P	-	MT135P-R485	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W45	2445388.58	1983 Feb 23 0200:00	MT-135P	-	MT135P-R486	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W65	2445402.58	1983 Mar 9 0200:00	MT-135P	-	MT135P-R487	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W80	2445409.58	1983 Mar 16 0200:00	MT-135P	-	MT135P-R488	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W90	2445416.58	1983 Mar 23 0200:00	MT-135P	-	MT135P-R489	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W106	2445430.58	1983 Apr 6 0200:00	MT-135P	-	MT135P-R490	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W120	2445437.58	1983 Apr 13 0200:00	MT-135P	-	MT135P-R491	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W125	2445444.58	1983 Apr 20 0200:00	MT-135P	-	MT135P-R492	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W131	2445451.58	1983 Apr 27 0200:00	MT-135P	-	MT135P-R493	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W146	2445465.58	1983 May 11 0200:00	MT-135P	-	MT135P-R494	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W159	2445472.58	1983 May 18 0200:00	MT-135P	-	MT135P-R495	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W171	2445480.58	1983 May 26 0200:00	MT-135P	-	MT135P-R496	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W174	2445486.59	1983 Jun 1 0215:00	MT-135P	-	MT135P-R497	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W187	2445500.59	1983 Jun 15 0203:59	MT-135P	-	MT135P-R498	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W204	2445514.59	1983 Jun 29 0204:59	MT-135P	-	MT135P-R499	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W213	2445529.58	1983 Jul 14 0200:00	MT-135P	-	MT135P-R500	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W222	2445542.58	1983 Jul 27 0200:00	MT-135P	-	MT135P-R501	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W232	2445556.58	1983 Aug 10 0200:00	MT-135P	-	MT135P-R502	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W243	2445571.60	1983 Aug 25 0230:00	MT-135P	-	MT135P-R503	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W261	2445584.59	1983 Sep 7 0215:00	MT-135P	-	MT135P-R504	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W266	2445591.58	1983 Sep 14 0200:00	MT-135P	-	MT135P-R505	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W384	2445605.58	1983 Sep 28 0200	MT-135P	-	MT135P-R506	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1983-W290	2445619.58	1983 Oct 12 0200:00	MT-135P	-	MT135P-R507	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W294	2445626.58	1983 Oct 19 0200:00	MT-135P	-	MT135P-R508	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W299	2445633.58	1983 Oct 26 0200:00	MT-135P	-	MT135P-R509	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W306	2445640.58	1983 Nov 2 0200:00	MT-135P	-	MT135P-R510	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W317	2445654.58	1983 Nov 16 0200:00	MT-135P	-	MT135P-R511	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W330	2445668.58	1983 Nov 30 0200:00	MT-135P	-	MT135P-R512	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W343	2445675.58	1983 Dec 7 0200:00	MT-135P	-	MT135P-R513	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W364	2445682.59	1983 Dec 14 0203:59	MT-135P	-	MT135P-R514	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W372	2445689.59	1983 Dec 21 0203:00	MT-135P	-	MT135P-R515	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1983-W379	2445696.58	1983 Dec 28 0200:00	MT-135P	-	MT135P-R516	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W11	2445710.59	1984 Jan 11 0203:59	MT-135P	-	MT135P-R517	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W26	2445718.58	1984 Jan 19 0200:00	MT-135P	-	MT135P-R518	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W35	2445724.58	1984 Jan 25 0200:00	MT-135P	-	MT135P-R519	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W54	2445738.58	1984 Feb 8 0201:00	MT-135P	-	MT135P-R520	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W75	2445745.58	1984 Feb 15 0201:00	MT-135P	-	MT135P-R521	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W87	2445752.58	1984 Feb 22 0202:00	MT-135P	-	MT135P-R522	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W101	2445766.58	1984 Mar 7 0200:00	MT-135P	-	MT135P-R523	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W105	2445773.58	1984 Mar 14 0200:00	MT-135P	-	MT135P-R524	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W120	2445787.58	1984 Mar 28 0200:00	MT-135P	-	MT135P-R525	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W142	2445801.58	1984 Apr 11 0202:00	MT-135P	-	MT135P-R526	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-A16	2445808.59	1984 Apr 18 0210:00	MT-135P	-	MT135P-R527	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W162	2445815.58	1984 Apr 25 0200:00	MT-135P	-	MT135P-R528	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W177	2445829.58	1984 May 9 0202:00	MT-135P	-	MT135P-R529	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W181	2445836.58	1984 May 16 0200:00	MT-135P	-	MT135P-R530	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W186	2445843.58	1984 May 23 0200:00	MT-135P	-	MT135P-R531	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W190	2445850.59	1984 May 30 0203:00	MT-135P	-	MT135P-R532	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W200	2445864.58	1984 Jun 13 0200:00	MT-135P	-	MT135P-R533	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W207	2445871.58	1984 Jun 20 0200:00	MT-135P	-	MT135P-R534	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W221	2445885.58	1984 Jul 4 0200:00	MT-135P	-	MT135P-R535	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W233	2445899.58	1984 Jul 18 0200:00	MT-135P	-	MT135P-R536	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W242	2445913.58	1984 Aug 1 0200:00	MT-135P	-	MT135P-R537	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W447	2445927.60	1984 Aug 15 0220	MT-135P	-	MT135P-R538	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1984-W268	2445941.58	1984 Aug 29 0200:00	MT-135P	-	MT135P-R539	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W293	2445949.58	1984 Sep 6 0200:00	MT-135P	-	MT135P-R540	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W304	2445962.58	1984 Sep 19 0200:00	MT-135P	-	MT135P-R541	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W329	2445983.58	1984 Oct 10 0200:00	MT-135P	-	MT135P-R542	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W347	2445991.58	1984 Oct 18 0200:00	MT-135P	-	MT135P-R543	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W351	2445997.58	1984 Oct 24 0201:00	MT-135P	-	MT135P-R544	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W360	2446004.58	1984 Oct 31 0201:00	MT-135P	-	MT135P-R545	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W369	2446011.58	1984 Nov 7 0200:00	MT-135P	-	MT135P-R546	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W386	2446018.58	1984 Nov 14 0200:00	MT-135P	-	MT135P-R547	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W406	2446025.59	1984 Nov 21 0204:59	MT-135P	-	MT135P-R548	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W420	2446039.59	1984 Dec 5 0204:59	MT-135P	-	MT135P-R549	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W428	2446046.60	1984 Dec 12 0220:00	MT-135P	-	MT135P-R550	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1984-W438	2446053.58	1984 Dec 19 0200:00	MT-135P	-	MT135P-R551	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W06	2446074.59	1985 Jan 9 0204:59	MT-135P	-	MT135P-R552	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W13	2446081.58	1985 Jan 16 0200:00	MT-135P	-	MT135P-R553	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W23	2446088.58	1985 Jan 23 0202:00	MT-135P	-	MT135P-R554	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W354	2446096.08	1985 Jan 30 1400	MT-135JA	-	MT135JA-1	0.000	NIPR	SU	-	NIPR/	Meteo	SRJ	-	-
1985-W43	2446102.58	1985 Feb 6 0200:00	MT-135P	-	MT135P-R555	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W54	2446109.58	1985 Feb 13 0200:00	MT-135P	-	MT135P-R556	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W66	2446117.58	1985 Feb 21 0200:00	MT-135P	-	MT135P-R557	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W69	2446123.58	1985 Feb 27 0200:00	MT-135P	-	MT135P-R558	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W349	2446130.59	1985 Mar 6 0205	MT-135P	-	MT135P-R559	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1985-W80	2446138.58	1985 Mar 14 0200:00	MT-135P	-	MT135P-R560	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W355	2446151.10	1985 Mar 26 1430	MT-135JA	-	MT135JA-2	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W89	2446151.58	1985 Mar 27 0200:00	MT-135P	-	MT135P-R561	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W350	2446165.58	1985 Apr 10 0200	MT-135P	-	MT135P-R562	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1985-W110	2446172.58	1985 Apr 17 0200:00	MT-135P	-	MT135P-R563	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W125	2446179.58	1985 Apr 24 0200:00	MT-135P	-	MT135P-R564	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W151	2446193.58	1985 May 8 0200:00	MT-135P	-	MT135P-R565	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W153	2446200.58	1985 May 15 0200:00	MT-135P	-	MT135P-R566	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W163	2446207.58	1985 May 22 0200:00	MT-135P	-	MT135P-R567	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W170	2446215.58	1985 May 30 0200:00	MT-135P	-	MT135P-R568	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W178	2446228.59	1985 Jun 12 0203:00	MT-135P	-	MT135P-R569	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W190	2446236.58	1985 Jun 20 0200:00	MT-135P	-	MT135P-R570	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W356	2446245.07	1985 Jun 28 1335	MT-135JA	-	MT135JA-3	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W357	2446245.18	1985 Jun 28 1616	MT-135JA	-	MT135JA-5	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W358	2446245.26	1985 Jun 28 1810	MT-135JA	-	MT135JA-6	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W359	2446245.33	1985 Jun 28 2002	MT-135JA	-	MT135JA-7	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W360	2446245.42	1985 Jun 28 2158	MT-135JA	-	MT135JA-4	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W198	2446249.58	1985 Jul 3 0200:00	MT-135P	-	MT135P-R571	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W209	2446263.58	1985 Jul 17 0200:00	MT-135P	-	MT135P-R572	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W219	2446277.58	1985 Jul 31 0200:00	MT-135P	-	MT135P-R573	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W351	2446291.59	1985 Aug 14 0203	MT-135P	-	MT135P-R574	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1985-W352	2446298.58	1985 Aug 21 0200	MT-135P	-	MT135P-R575	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1985-W353	2446305.58	1985 Aug 28 0200	MT-135P	-	MT135P-R576	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1985-W239	2446319.58	1985 Sep 11 0201:00	MT-135P	-	MT135P-R577	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W365	2446319.60	1985 Sep 11 0225	MT-135	-	MT-135-44	0.000	ISAS	SS	-	ISAS/	Meteo	SRJ	-	-
1985-W248	2446327.58	1985 Sep 19 0200:00	MT-135P	-	MT135P-R578	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W361	2446334.08	1985 Sep 25 1400	MT-135JA	-	MT135JA-9	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W362	2446334.17	1985 Sep 25 1600	MT-135JA	-	MT135JA-8	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W363	2446334.25	1985 Sep 25 1800	MT-135JA	-	MT135JA-11	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W364	2446334.33	1985 Sep 25 2000	MT-135JA	-	MT135JA-10	0.000	NIPR	SS	-	NIPR/	Meteo	SRJ	-	-
1985-W257	2446340.58	1985 Oct 2 0200:00	MT-135P	-	MT135P-R579	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W265	2446354.58	1985 Oct 16 0200:00	MT-135P	-	MT135P-R580	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W282	2446369.58	1985 Oct 31 0200:00	MT-135P	-	MT135P-R581	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-A10	2446375.59	1985 Nov 6 0203:00	MT-135P	-	MT135P-R582	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W295	2446382.58	1985 Nov 13 0200:00	MT-135P	-	MT135P-R583	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W298	2446389.58	1985 Nov 20 0200:00	MT-135P	-	MT135P-R584	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W321	2446404.58	1985 Dec 5 0201:00	MT-135P	-	MT135P-R585	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W330	2446410.59	1985 Dec 11 0204:59	MT-135P	-	MT135P-R586	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W341	2446417.59	1985 Dec 18 0204:59	MT-135P	-	MT135P-R587	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1985-W347	2446424.58	1985 Dec 25 0200:00	MT-135P	-	MT135P-R588	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W05	2446438.58	1986 Jan 8 0200:00	MT-135P	-	MT135P-R589	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W13	2446446.58	1986 Jan 16 0200:00	MT-135P	-	MT135P-R590	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W17	2446452.58	1986 Jan 22 0200:00	MT-135P	-	MT135P-R591	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W25	2446466.58	1986 Feb 5 0200:00	MT-135P	-	MT135P-R592	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W30	2446473.58	1986 Feb 12 0200:00	MT-135P	-	MT135P-R593	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W230	2446481.58	1986 Feb 20 0200	MT-135P	-	MT135P-R594	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1986-W49	2446494.58	1986 Mar 5 0200:00	MT-135P	-	MT135P-R595	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W56	2446501.58	1986 Mar 12 0200:00	MT-135P	-	MT135P-R596	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W66	2446515.58	1986 Mar 26 0200:00	MT-135P	-	MT135P-R597	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W231	2446530.58	1986 Apr 10 0200	MT-135P	-	MT135P-R598	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1986-W76	2446537.59	1986 Apr 17 0204:59	MT-135P	-	MT135P-R599	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W80	2446544.58	1986 Apr 24 0200:00	MT-135P	-	MT135P-R600	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W93	2446558.58	1986 May 8 0200:00	MT-135P	-	MT135P-R601	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W97	2446564.58	1986 May 14 0200:00	MT-135P	-	MT135P-R602	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W98	2446571.58	1986 May 21 0200:00	MT-135P	-	MT135P-R603	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-W103	2446578.58	1986 May 28 0200:00	MT-135P	-	MT135P-R604	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W106	2446592.58	1986 Jun 11 0200:00	MT-135P	-	MT135P-R605	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W114	2446606.58	1986 Jun 25 0200:00	MT-135P	-	MT135P-R606	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W118	2446613.58	1986 Jul 2 0200:00	MT-135P	-	MT135P-R607	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W124	2446627.58	1986 Jul 16 0201:00	MT-135P	-	MT135P-R608	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W127	2446635.58	1986 Jul 24 0200:00	MT-135P	-	MT135P-R609	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W136	2446648.58	1986 Aug 6 0200:00	MT-135P	-	MT135P-R610	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W140	2446662.58	1986 Aug 20 0200:00	MT-135P	-	MT135P-R611	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W228	2446662.60	1986 Aug 20 0220	MT-135	-	MT-135-45	0.000	ISAS	SS	-	ISAS/	Meteo	SRJ	-	-
1986-W229	2446662.67	1986 Aug 20 0400	MT-135	-	MT-135-46	0.000	ISAS	SU	-	ISAS/	Meteo	SRJ	-	-
1986-W148	2446669.58	1986 Aug 27 0200:00	MT-135P	-	MT135P-R612	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W154	2446683.58	1986 Sep 10 0200:00	MT-135P	-	MT135P-R613	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W166	2446697.58	1986 Sep 24 0202:00	MT-135P	-	MT135P-R614	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W232	2446711.58	1986 Oct 8 0200	MT-135P	-	MT135P-R615	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1986-W186	2446718.58	1986 Oct 15 0200:00	MT-135P	-	MT135P-R616	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W193	2446726.58	1986 Oct 23 0200:00	MT-135P	-	MT135P-R617	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W195	2446732.59	1986 Oct 29 0210:00	MT-135P	-	MT135P-R618	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W202	2446746.58	1986 Nov 12 0200:00	MT-135P	-	MT135P-R619	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W206	2446753.58	1986 Nov 19 0200:00	MT-135P	-	MT135P-R620	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W213	2446767.58	1986 Dec 3 0200:00	MT-135P	-	MT135P-R621	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W218	2446774.58	1986 Dec 10 0200:00	MT-135P	-	MT135P-R622	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W222	2446781.58	1986 Dec 17 0200:00	MT-135P	-	MT135P-R623	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1986-W225	2446788.58	1986 Dec 24 0200:00	MT-135P	-	MT135P-R624	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W314	2446802.58	1987 Jan 7 0200	MT-135P	-	MT135P-R625	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1987-W22	2446809.58	1987 Jan 14 0200:00	MT-135P	-	MT135P-R626	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W30	2446816.58	1987 Jan 21 0200:00	MT-135P	-	MT135P-R627	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W42	2446831.58	1987 Feb 5 0200:00	MT-135P	-	MT135P-R628	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W47	2446844.58	1987 Feb 18 0200:00	MT-135P	-	MT135P-R629	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W51	2446851.58	1987 Feb 25 0200:00	MT-135P	-	MT135P-R630	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W65	2446865.58	1987 Mar 11 0200:00	MT-135P	-	MT135P-R631	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W68	2446872.58	1987 Mar 18 0200:00	MT-135P	-	MT135P-R632	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W77	2446879.58	1987 Mar 25 0200:00	MT-135P	-	MT135P-R633	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W90	2446893.58	1987 Apr 8 0200:00	MT-135P	-	MT135P-R634	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W109	2446908.58	1987 Apr 23 0200:00	MT-135P	-	MT135P-R635	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W117	2446914.58	1987 Apr 29 0200:00	MT-135P	-	MT135P-R636	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W129	2446928.58	1987 May 13 0200:00	MT-135P	-	MT135P-R637	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W135	2446935.58	1987 May 20 0200:00	MT-135P	-	MT135P-R638	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W140	2446942.59	1987 May 27 0215:00	MT-135P	-	MT135P-R639	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W151	2446956.60	1987 Jun 10 0230:00	MT-135P	-	MT135P-R640	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W161	2446963.58	1987 Jun 17 0200:00	MT-135P	-	MT135P-R641	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W169	2446970.58	1987 Jun 24 0200:00	MT-135P	-	MT135P-R642	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W178	2446984.58	1987 Jul 8 0200:00	MT-135P	-	MT135P-R643	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W194	2446999.58	1987 Jul 23 0200:00	MT-135P	-	MT135P-R644	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W203	2447013.58	1987 Aug 6 0200:00	MT-135P	-	MT135P-R645	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W212	2447026.58	1987 Aug 19 0200:00	MT-135P	-	MT135P-R646	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W218	2447040.58	1987 Sep 2 0200:00	MT-135P	-	MT135P-R647	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W312	2447047.58	1987 Sep 9 0200	MT-135	-	MT-135-47	0.000	ISAS	SS	-	ISAS/	Meteo	SRJ	-	-
1987-W225	2447047.59	1987 Sep 9 0212:00	MT-135P	-	MT135P-R648	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W313	2447047.67	1987 Sep 9 0400	MT-135	-	MT-135-48	0.000	ISAS	SS	-	ISAS/	Meteo	SRJ	-	-
1987-W315	2447061.58	1987 Sep 23 0200	MT-135P	-	MT135P-R649	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1987-W316	2447068.58	1987 Sep 30 0200	MT-135P	-	MT135P-R650	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1987-W248	2447075.58	1987 Oct 7 0200:00	MT-135P	-	MT135P-R651	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W256	2447089.60	1987 Oct 21 0217:00	MT-135P	-	MT135P-R652	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W263	2447096.58	1987 Oct 28 0200:00	MT-135P	-	MT135P-R653	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W272	2447110.58	1987 Nov 11 0200:00	MT-135P	-	MT135P-R654	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W278	2447117.58	1987 Nov 18 0200:00	MT-135P	-	MT135P-R655	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W285	2447125.58	1987 Nov 26 0200:00	MT-135P	-	MT135P-R656	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W302	2447138.58	1987 Dec 9 0200:00	MT-135P	-	MT135P-R657	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W310	2447145.59	1987 Dec 16 0213:00	MT-135P	-	MT135P-R658	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1987-W317	2447152.58	1987 Dec 23 0200	MT-135P	-	MT135P-R659	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W01	2447166.60	1988 Jan 6 0224:00	MT-135P	-	MT135P-R660	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W233	2447173.58	1988 Jan 13 0200	MT-135P	-	MT135P-R661	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W09	2447180.58	1988 Jan 20 0200:00	MT-135P	-	MT135P-R662	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W28	2447201.58	1988 Feb 10 0201:00	MT-135P	-	MT135P-R663	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W32	2447208.58	1988 Feb 17 0200:00	MT-135P	-	MT135P-R664	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W36	2447215.58	1988 Feb 24 0200:00	MT-135P	-	MT135P-R665	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W234	2447223.58	1988 Mar 3 0200	MT-135P	-	MT135P-R666	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W235	2447229.59	1988 Mar 9 0205	MT-135P	-	MT135P-R667	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W58	2447237.58	1988 Mar 17 0200:00	MT-135P	-	MT135P-R668	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W67	2447250.58	1988 Mar 30 0200:00	MT-135P	-	MT135P-R669	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W86	2447265.58	1988 Apr 14 0200:00	MT-135P	-	MT135P-R670	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W94	2447271.58	1988 Apr 20 0200:00	MT-135P	-	MT135P-R671	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W97	2447278.58	1988 Apr 27 0202:00	MT-135P	-	MT135P-R672	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W105	2447292.59	1988 May 11 0203:00	MT-135P	-	MT135P-R673	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W111	2447306.58	1988 May 25 0200:00	MT-135P	-	MT135P-R674	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W115	2447313.58	1988 Jun 1 0200:00	MT-135P	-	MT135P-R675	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W121	2447320.58	1988 Jun 8 0200:00	MT-135P	-	MT135P-R676	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W236	2447327.58	1988 Jun 15 0200	MT-135P	-	MT135P-R677	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W132	2447341.58	1988 Jun 29 0200:00	MT-135P	-	MT135P-R678	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W136	2447355.59	1988 Jul 13 0214:00	MT-135P	-	MT135P-R679	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W138	2447369.58	1988 Jul 27 0200:00	MT-135P	-	MT135P-R680	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W141	2447377.58	1988 Aug 4 0200:00	MT-135P	-	MT135P-R681	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W146	2447391.58	1988 Aug 18 0200:00	MT-135P	-	MT135P-R682	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W152	2447404.58	1988 Aug 31 0200:00	MT-135P	-	MT135P-R683	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W232	2447415.60	1988 Sep 11 0225	MT-135	-	MT-135-49	0.000	ISAS	SS	-	ISAS/TSUK/	Meteo	SRJ	-	-
1988-W237	2447418.58	1988 Sep 14 0200	MT-135P	-	MT135P-R684	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-W172	2447433.58	1988 Sep 29 0200:00	MT-135P	-	MT135P-R685	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W182	2447446.58	1988 Oct 12 0202:00	MT-135P	-	MT135P-R686	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W184	2447460.58	1988 Oct 26 0200:00	MT-135P	-	MT135P-R687	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W191	2447474.58	1988 Nov 9 0200:00	MT-135P	-	MT135P-R688	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W197	2447481.58	1988 Nov 16 0200:00	MT-135P	-	MT135P-R689	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W238	2447488.58	1988 Nov 23 0200	MT-135P	-	MT135P-R690	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1988-W206	2447495.58	1988 Nov 30 0202:00	MT-135P	-	MT135P-R691	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W214	2447502.58	1988 Dec 7 0200:00	MT-135P	-	MT135P-R692	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W216	2447509.58	1988 Dec 14 0200:00	MT-135P	-	MT135P-R693	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W222	2447516.58	1988 Dec 21 0200:00	MT-135P	-	MT135P-R694	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1988-W228	2447523.59	1988 Dec 28 0212:00	MT-135P	-	MT135P-R695	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1989-W19	2447537.58	1989 Jan 11 0202:00	MT-135P	-	MT135P-R696	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1989-W307	2447544.58	1989 Jan 18 0150	MT-135P	-	MT135P-R697	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W308	2447551.58	1989 Jan 25 0200	MT-135P	-	MT135P-R698	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W309	2447558.58	1989 Feb 1 0200	MT-135P	-	MT135P-R699	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W310	2447572.58	1989 Feb 15 0200	MT-135P	-	MT135P-R700	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W311	2447579.59	1989 Feb 22 0206	MT-135P	-	MT135P-R701	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W312	2447587.58	1989 Mar 2 0200	MT-135P	-	MT135P-R702	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W313	2447593.58	1989 Mar 8 0200	MT-135P	-	MT135P-R703	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W314	2447600.58	1989 Mar 15 0200	MT-135P	-	MT135P-R704	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W315	2447614.58	1989 Mar 29 0200	MT-135P	-	MT135P-R705	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W316	2447629.58	1989 Apr 13 0202	MT-135P	-	MT135P-R706	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W317	2447635.58	1989 Apr 19 0200	MT-135P	-	MT135P-R707	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W318	2447642.59	1989 Apr 26 0204	MT-135P	-	MT135P-R708	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W319	2447656.58	1989 May 10 0200	MT-135P	-	MT135P-R709	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W320	2447663.58	1989 May 17 0200	MT-135P	-	MT135P-R710	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W321	2447677.59	1989 May 31 0203	MT-135P	-	MT135P-R711	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W322	2447691.58	1989 Jun 14 0200	MT-135P	-	MT135P-R712	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W323	2447698.58	1989 Jun 21 0200	MT-135P	-	MT135P-R713	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W324	2447705.58	1989 Jun 28 0200	MT-135P	-	MT135P-R714	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W325	2447720.58	1989 Jul 13 0200	MT-135P	-	MT135P-R715	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W326	2447740.58	1989 Aug 2 0200	MT-135P	-	MT135P-R716	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W327	2447754.58	1989 Aug 16 0200	MT-135P	-	MT135P-R717	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W328	2447768.58	1989 Aug 30 0200	MT-135P	-	MT135P-R718	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W329	2447782.58	1989 Sep 13 0200	MT-135P	-	MT135P-R719	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W330	2447789.58	1989 Sep 20 0201	MT-135P	-	MT135P-R720	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W331	2447803.58	1989 Oct 4 0200	MT-135P	-	MT135P-R721	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W332	2447817.59	1989 Oct 18 0204	MT-135P	-	MT135P-R722	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W333	2447831.58	1989 Nov 1 0200	MT-135P	-	MT135P-R723	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W334	2447845.58	1989 Nov 15 0200	MT-135P	-	MT135P-R724	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W335	2447852.58	1989 Nov 22 0200	MT-135P	-	MT135P-R725	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W336	2447866.58	1989 Dec 6 0200	MT-135P	-	MT135P-R726	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W337	2447873.58	1989 Dec 13 0202	MT-135P	-	MT135P-R727	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W338	2447881.59	1989 Dec 21 0210	MT-135P	-	MT135P-R728	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W339	2447888.58	1989 Dec 28 0200	MT-135P	-	MT135P-R729	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1989-W218	2447775.58	1989 Sep 6 0200	MT-135	-	MT-135-50	0.000	ISAS	SS	-	ISAS/TSUK/	Meteo	SRJ	-	-
1990-W191	2447897.58	1990 Jan 6 0200	MT-135P	-	MT135P-R730	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W13	2447908.58	1990 Jan 17 0200:00	MT-135P	-	MT-135P-R731	0.000	JMA	SS	-	JMA/	Aeron	SRJ/ESA-SP317-381	-	-
1990-W43	2447915.58	1990 Jan 24 0200:00	MT-135P	-	MT-135P-R732	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W55	2447922.58	1990 Jan 31 0200:00	MT-135P	-	MT-135P-R733	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W69	2447929.58	1990 Feb 7 0200	MT-135P	-	MT-135P-R734	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W76	2447936.58	1990 Feb 14 0200	MT-135P	-	MT-135P-R735	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W85	2447943.58	1990 Feb 21 0200	MT-135P	-	MT-135P-R736	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W86	2447943.58	1990 Feb 21 0200	MT-135	-	MT-135-51	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-W98	2447950.58	1990 Feb 28 0200	MT-135P	-	MT-135P-R737	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W109	2447957.58	1990 Mar 7 0200	MT-135P	-	MT-135P-R738	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W126	2447964.58	1990 Mar 14 0200	MT-135P	-	MT-135P-R739	0.000	JMA	SS	-	JMA/	Aeron	ESA-SP317-381	-	-
1990-W192	2447971.58	1990 Mar 21 0200	MT-135P	-	MT135P-R740	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W193	2447978.58	1990 Mar 28 0200	MT-135P	-	MT135P-R741	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W194	2447992.58	1990 Apr 11 0200	MT-135P	-	MT135P-R742	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W195	2447999.58	1990 Apr 18 0200	MT-135P	-	MT135P-R743	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W196	2448006.58	1990 Apr 25 0200	MT-135P	-	MT135P-R744	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W197	2448021.58	1990 May 10 0200	MT-135P	-	MT135P-R745	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W198	2448027.58	1990 May 16 0200	MT-135P	-	MT135P-R746	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W199	2448034.58	1990 May 23 0200	MT-135P	-	MT135P-R747	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W200	2448048.58	1990 Jun 6 0200	MT-135P	-	MT135P-R748	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W201	2448062.58	1990 Jun 20 0200	MT-135P	-	MT135P-R749	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W202	2448070.58	1990 Jun 28 0200	MT-135P	-	MT135P-R750	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W203	2448083.58	1990 Jul 11 0200	MT-135P	-	MT135P-R751	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W204	2448097.59	1990 Jul 25 0205	MT-135P	-	MT135P-R752	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W205	2448111.58	1990 Aug 8 0200	MT-135P	-	MT135P-R753	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W206	2448126.58	1990 Aug 23 0200	MT-135P	-	MT135P-R754	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W155	2448130.59	1990 Aug 27 0210:00	MT-135	-	MT-135-52	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISASRpt679	-	-
1990-W207	2448139.58	1990 Sep 5 0201	MT-135P	-	MT135P-R755	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W208	2448153.58	1990 Sep 19 0201	MT-135P	-	MT135P-R756	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W209	2448167.58	1990 Oct 3 0200	MT-135P	-	MT135P-R757	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W210	2448181.59	1990 Oct 17 0205	MT-135P	-	MT135P-R758	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W211	2448196.58	1990 Nov 1 0200	MT-135P	-	MT135P-R759	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W212	2448202.58	1990 Nov 7 0200	MT-135P	-	MT135P-R760	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W213	2448209.58	1990 Nov 14 0201	MT-135P	-	MT135P-R761	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W214	2448223.58	1990 Nov 28 0200	MT-135P	-	MT135P-R762	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W215	2448230.58	1990 Dec 5 0200	MT-135P	-	MT135P-R763	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W216	2448237.58	1990 Dec 12 0200	MT-135P	-	MT135P-R764	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W217	2448244.58	1990 Dec 19 0202	MT-135P	-	MT135P-R765	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1990-W218	2448252.58	1990 Dec 27 0201	MT-135P	-	MT135P-R766	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W132	2448265.59	1991 Jan 9 0205	MT-135P	-	MT135P-R767	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-W133	2448272.59	1991 Jan 16 0203	MT-135P	-	MT135P-R768	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W134	2448279.58	1991 Jan 23 0201	MT-135P	-	MT135P-R769	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W135	2448286.59	1991 Jan 30 0208	MT-135P	-	MT135P-R770	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W136	2448293.60	1991 Feb 6 0225	MT-135P	-	MT135P-R771	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W29	2448296.58	1991 Feb 9 0200	MT-135	-	MT-135-53	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISASRpt679	-	-
1991-W30	2448298.59	1991 Feb 11 0210	MT-135	-	MT-135-54	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISASRpt679	-	-
1991-W137	2448300.58	1991 Feb 13 0202	MT-135P	-	MT135P-R772	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W138	2448307.60	1991 Feb 20 0220	MT-135P	-	MT135P-R773	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W139	2448314.59	1991 Feb 27 0204	MT-135P	-	MT135P-R774	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W140	2448328.59	1991 Mar 13 0213	MT-135P	-	MT135P-R775	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W141	2448335.58	1991 Mar 20 0200	MT-135P	-	MT135P-R776	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W142	2448342.58	1991 Mar 27 0200	MT-135P	-	MT135P-R777	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W143	2448356.59	1991 Apr 10 0203	MT-135P	-	MT135P-R778	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W144	2448363.59	1991 Apr 17 0205	MT-135P	-	MT135P-R779	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W145	2448370.58	1991 Apr 24 0200	MT-135P	-	MT135P-R780	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W146	2448384.58	1991 May 8 0202	MT-135P	-	MT135P-R781	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W147	2448391.58	1991 May 15 0200	MT-135P	-	MT135P-R782	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W148	2448398.58	1991 May 22 0200	MT-135P	-	MT135P-R783	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W149	2448412.60	1991 Jun 5 0225	MT-135P	-	MT135P-R784	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W150	2448426.59	1991 Jun 19 0210	MT-135P	-	MT135P-R785	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W151	2448433.58	1991 Jun 26 0200	MT-135P	-	MT135P-R786	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W152	2448448.58	1991 Jul 11 0200	MT-135P	-	MT135P-R787	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W153	2448454.58	1991 Jul 17 0200	MT-135P	-	MT135P-R788	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W154	2448469.58	1991 Aug 1 0200	MT-135P	-	MT135P-R789	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W155	2448482.58	1991 Aug 14 0200	MT-135P	-	MT135P-R790	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W156	2448496.59	1991 Aug 28 0205	MT-135P	-	MT135P-R791	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W157	2448503.58	1991 Sep 4 0200	MT-135P	-	MT135P-R792	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W104	2448510.58	1991 Sep 11 0200:00	MT-135	-	MT-135-55	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISASRpt679	-	-
1991-W108	2448511.58	1991 Sep 12 0200:00	MT-135	-	MT-135-56	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISASRpt679	-	-
1991-W158	2448511.58	1991 Sep 12 0200	MT-135P	-	MT135P-R793	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W159	2448524.59	1991 Sep 25 0210	MT-135P	-	MT135P-R794	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W160	2448532.58	1991 Oct 3 0200	MT-135P	-	MT135P-R795	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W161	2448545.58	1991 Oct 16 0200	MT-135P	-	MT135P-R796	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W162	2448552.59	1991 Oct 23 0203	MT-135P	-	MT135P-R797	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W163	2448566.59	1991 Nov 6 0214	MT-135P	-	MT135P-R798	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W164	2448573.58	1991 Nov 13 0200	MT-135P	-	MT135P-R799	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W165	2448587.58	1991 Nov 27 0200	MT-135P	-	MT135P-R800	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W166	2448594.58	1991 Dec 4 0200	MT-135P	-	MT135P-R801	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W167	2448601.59	1991 Dec 11 0203	MT-135P	-	MT135P-R802	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W168	2448608.58	1991 Dec 18 0200	MT-135P	-	MT135P-R803	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1991-W169	2448615.58	1991 Dec 25 0200	MT-135P	-	MT135P-R804	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W115	2448630.58	1992 Jan 9 0200	MT-135P	-	MT135P-R805	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W02	2448636.58	1992 Jan 15 0200:00	MT-135P	-	MT135P-R806	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W04	2448643.58	1992 Jan 22 0200:00	MT-135P	-	MT135P-R807	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W06	2448657.59	1992 Feb 5 0203:00	MT-135P	-	MT135P-R808	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W14	2448671.59	1992 Feb 19 0211:00	MT-135P	-	MT135P-R809	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W19	2448678.59	1992 Feb 26 0208:00	MT-135P	-	MT135P-R810	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W116	2448692.58	1992 Mar 11 0200	MT-135P	-	MT135P-R811	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W28	2448699.58	1992 Mar 18 0200:00	MT-135P	-	MT135P-R812	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W32	2448706.58	1992 Mar 25 0200:00	MT-135P	-	MT135P-R813	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W117	2448720.58	1992 Apr 8 0200	MT-135P	-	MT135P-R814	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W44	2448727.59	1992 Apr 15 0204:59	MT-135P	-	MT135P-R815	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W45	2448734.58	1992 Apr 22 0202:00	MT-135P	-	MT135P-R816	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W47	2448742.58	1992 Apr 30 0200:00	MT-135P	-	MT135P-R817	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W118	2448755.58	1992 May 13 0200	MT-135P	-	MT135P-R818	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W119	2448762.58	1992 May 20 0200	MT-135P	-	MT135P-R819	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W52	2448769.58	1992 May 27 0200:00	MT-135P	-	MT135P-R820	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W57	2448783.58	1992 Jun 10 0200:00	MT-135P	-	MT135P-R821	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W58	2448790.59	1992 Jun 17 0210:00	MT-135P	-	MT135P-R822	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W63	2448797.58	1992 Jun 24 0200:00	MT-135P	-	MT135P-R823	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W73	2448812.58	1992 Jul 9 0200:00	MT-135P	-	MT135P-R824	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W76	2448825.58	1992 Jul 22 0200:00	MT-135P	-	MT135P-R825	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W83	2448839.58	1992 Aug 5 0200:00	MT-135P	-	MT135P-R826	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W85	2448853.60	1992 Aug 19 0230:00	MT-135P	-	MT135P-R827	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W120	2448867.58	1992 Sep 2 0200	MT-135P	-	MT135P-R828	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W90	2448874.58	1992 Sep 9 0200:00	MT-135P	-	MT135P-R829	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W91	2448874.58	1992 Sep 9 0200	MT-135	-	MT-135-57	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1992-W123	2448888.58	1992 Sep 23 0200	MT-135P	-	MT135P-R830	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W95	2448902.59	1992 Oct 7 0210:00	MT-135P	-	MT135P-R831	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W121	2448917.58	1992 Oct 22 0200	MT-135P	-	MT135P-R832	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W102	2448923.58	1992 Oct 28 0200:00	MT-135P	-	MT135P-R833	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W103	2448931.58	1992 Nov 5 0200:00	MT-135P	-	MT135P-R834	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W106	2448944.58	1992 Nov 18 0200:00	MT-135P	-	MT135P-R835	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W108	2448951.58	1992 Nov 25 0200:00	MT-135P	-	MT135P-R836	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W110	2448958.60	1992 Dec 2 0220:00	MT-135P	-	MT135P-R837	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W111	2448972.59	1992 Dec 16 0209:00	MT-135P	-	MT135P-R838	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1992-W122	2448979.58	1992 Dec 23 0200	MT-135P	-	MT135P-R839	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1992-W114	2448987.59	1992 Dec 31 0203:00	MT-135P	-	MT135P-R840	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W01	2448993.59	1993 Jan 6 0204:59	MT-135P	-	MT135P-R841	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W03	2449007.58	1993 Jan 20 0201:00	MT-135P	-	MT135P-R842	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W04	2449014.58	1993 Jan 27 0200:00	MT-135P	-	MT135P-R843	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W06	2449021.58	1993 Feb 3 0200:00	MT-135P	-	MT135P-R844	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W07	2449036.58	1993 Feb 18 0200:00	MT-135P	-	MT135P-R845	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W62	2449042.58	1993 Feb 24 0200	MT-135P	-	MT135P-R846	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1993-W08	2449049.58	1993 Mar 3 0200:00	MT-135P	-	MT135P-R847	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W09	2449063.58	1993 Mar 17 0200:00	MT-135P	-	MT135P-R848	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-W12	2449070.59	1993 Mar 24 0207:00	MT-135P	-	MT135P-R849	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W17	2449084.59	1993 Apr 7 0207:00	MT-135P	-	MT135P-R850	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W18	2449098.59	1993 Apr 21 0204:59	MT-135P	-	MT135P-R851	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W19	2449105.58	1993 Apr 28 0202:00	MT-135P	-	MT135P-R852	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W21	2449119.58	1993 May 12 0202:00	MT-135P	-	MT135P-R853	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W23	2449126.59	1993 May 19 0204:59	MT-135P	-	MT135P-R854	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W25	2449133.59	1993 May 26 0210:00	MT-135P	-	MT135P-R855	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W28	2449147.60	1993 Jun 9 0226:59	MT-135P	-	MT135P-R856	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W29	2449154.59	1993 Jun 16 0204:59	MT-135P	-	MT135P-R857	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W32	2449168.60	1993 Jun 30 0221:00	MT-135P	-	MT135P-R858	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W35	2449183.58	1993 Jul 15 0200:00	MT-135P	-	MT135P-R859	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W63	2449189.58	1993 Jul 21 0200	MT-135P	-	MT135P-R860	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1993-W38	2449203.59	1993 Aug 4 0210:00	MT-135P	-	MT135P-R861	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W40	2449217.58	1993 Aug 18 0200:00	MT-135P	-	MT135P-R862	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W42	2449231.59	1993 Sep 1 0203:00	MT-135P	-	MT135P-R863	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W45	2449245.58	1993 Sep 15 0200:00	MT-135P	-	MT135P-R864	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W46	2449252.58	1993 Sep 22 0200:00	MT-135P	-	MT135P-R865	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W61	2449253.58	1993 Sep 23 0200	MT-135	-	MT-135-58	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1993-W47	2449254.58	1993 Sep 24 0200	MT-135	-	MT-135-59	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1993-W64	2449259.58	1993 Sep 29 0200	MT-135P	-	MT135P-R866	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1993-W49	2449274.58	1993 Oct 14 0200:00	MT-135P	-	MT135P-R867	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W51	2449280.59	1993 Oct 20 0210:00	MT-135P	-	MT135P-R868	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W52	2449287.58	1993 Oct 27 0200:00	MT-135P	-	MT135P-R869	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W53	2449301.58	1993 Nov 10 0200:00	MT-135P	-	MT135P-R870	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W54	2449308.58	1993 Nov 17 0200:00	MT-135P	-	MT135P-R871	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W57	2449323.58	1993 Dec 2 0200:00	MT-135P	-	MT135P-R872	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W58	2449329.58	1993 Dec 8 0200:00	MT-135P	-	MT135P-R873	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W59	2449336.59	1993 Dec 15 0215:00	MT-135P	-	MT135P-R874	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1993-W60	2449343.59	1993 Dec 22 0203:00	MT-135P	-	MT135P-R875	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1994-A02	2449358.58	1994 Jan 6 0200:00	MT-135P	-	MT135P-R876	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1994-W01	2449365.58	1994 Jan 13 0200:00	MT-135P	-	MT135P-R877	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1994-W06	2449378.58	1994 Jan 26 0200	MT-135P	-	MT135P-R878	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W07	2449386.58	1994 Feb 3 0200	MT-135P	-	MT135P-R879	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W08	2449399.59	1994 Feb 16 0207	MT-135P	-	MT135P-R880	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W09	2449413.60	1994 Mar 2 0220	MT-135P	-	MT135P-R881	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W10	2449420.58	1994 Mar 9 0200	MT-135P	-	MT135P-R882	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W11	2449427.58	1994 Mar 16 0200	MT-135P	-	MT135P-R883	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W12	2449435.59	1994 Mar 24 0210	MT-135P	-	MT135P-R884	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W13	2449441.59	1994 Mar 30 0203	MT-135P	-	MT135P-R885	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W14	2449455.60	1994 Apr 13 0228	MT-135P	-	MT135P-R886	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W15	2449462.59	1994 Apr 20 0210	MT-135P	-	MT135P-R887	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W16	2449469.59	1994 Apr 27 0210	MT-135P	-	MT135P-R888	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W17	2449483.59	1994 May 11 0203	MT-135P	-	MT135P-R889	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W18	2449497.59	1994 May 25 0215	MT-135P	-	MT135P-R890	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W19	2449511.59	1994 Jun 8 0203	MT-135P	-	MT135P-R891	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W20	2449518.60	1994 Jun 15 0220	MT-135P	-	MT135P-R892	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W21	2449532.58	1994 Jun 29 0200	MT-135P	-	MT135P-R893	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W22	2449546.60	1994 Jul 13 0220	MT-135P	-	MT135P-R894	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W23	2449553.59	1994 Jul 20 0208	MT-135P	-	MT135P-R895	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W24	2449567.59	1994 Aug 3 0205	MT-135P	-	MT135P-R896	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W25	2449581.59	1994 Aug 17 0205	MT-135P	-	MT135P-R897	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W26	2449588.59	1994 Aug 24 0203	MT-135P	-	MT135P-R898	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W02	2449601.58	1994 Sep 6 0200	MT-135	-	MT-135-60	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1994-W03	2449602.58	1994 Sep 7 0200	MT-135	-	MT-135-61	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1994-W27	2449603.59	1994 Sep 8 0203	MT-135P	-	MT135P-R899	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W04	2449610.58	1994 Sep 15 0200	MT-135	-	MT-135-62	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1994-W05	2449613.58	1994 Sep 18 0200	MT-135	-	MT-135-63	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1994-W28	2449616.58	1994 Sep 21 0200	MT-135P	-	MT135P-R900	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W29	2449623.59	1994 Sep 28 0210	MT-135P	-	MT135P-R901	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W30	2449630.59	1994 Oct 5 0203	MT-135P	-	MT135P-R902	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W31	2449637.58	1994 Oct 12 0200	MT-135P	-	MT135P-R903	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W32	2449644.59	1994 Oct 19 0203	MT-135P	-	MT135P-R904	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W33	2449651.58	1994 Oct 26 0200	MT-135P	-	MT135P-R905	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W34	2449665.58	1994 Nov 9 0200	MT-135P	-	MT135P-R906	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W35	2449672.59	1994 Nov 16 0215	MT-135P	-	MT135P-R907	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W36	2449679.58	1994 Nov 23 0200	MT-135P	-	MT135P-R908	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W37	2449693.58	1994 Dec 7 0200	MT-135P	-	MT135P-R909	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W38	2449701.58	1994 Dec 15 0200	MT-135P	-	MT135P-R910	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W39	2449708.58	1994 Dec 22 0200	MT-135P	-	MT135P-R911	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1994-W40	2449714.58	1994 Dec 28 0200	MT-135P	-	MT135P-R912	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W01	2449729.59	1995 Jan 12 0203	MT-135P	-	MT135P-R913	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W02	2449735.58	1995 Jan 18 0200	MT-135P	-	MT135P-R914	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W03	2449742.59	1995 Jan 25 0210	MT-135P	-	MT135P-R915	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W18	2449757.59	1995 Feb 9 0203	MT-135P	-	MT135P-R916	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W19	2449763.59	1995 Feb 15 0203	MT-135P	-	MT135P-R917	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W20	2449770.58	1995 Feb 22 0200	MT-135P	-	MT135P-R918	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W21	2449784.58	1995 Mar 8 0200	MT-135P	-	MT135P-R919	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W15	2449798.58	1995 Mar 22 0200	MT-135P	-	MT135P-R920	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W16	2449805.58	1995 Mar 29 0200	MT-135P	-	MT135P-R921	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W17	2449833.60	1995 Apr 26 0220	MT-135P	-	MT135P-R922	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W22	2449847.58	1995 May 10 0200	MT-135P	-	MT135P-R923	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W23	2449854.59	1995 May 17 0208	MT-135P	-	MT135P-R924	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W24	2449861.60	1995 May 24 0217	MT-135P	-	MT135P-R925	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W25	2449868.59	1995 May 31 0205	MT-135P	-	MT135P-R926	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W26	2449875.59	1995 Jun 7 0203	MT-135P	-	MT135P-R927	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W27	2449889.59	1995 Jun 21 0207	MT-135P	-	MT135P-R928	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1995-W28	2449896.58	1995 Jun 28 0200	MT-135P	-	MT135P-R929	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W29	2449903.58	1995 Jul 5 0200	MT-135P	-	MT135P-R930	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W30	2449910.58	1995 Jul 12 0200	MT-135P	-	MT135P-R931	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W31	2449917.58	1995 Jul 19 0200	MT-135P	-	MT135P-R932	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W32	2449931.58	1995 Aug 2 0200	MT-135P	-	MT135P-R933	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W33	2449938.59	1995 Aug 9 0203	MT-135P	-	MT135P-R934	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W34	2449952.59	1995 Aug 23 0205	MT-135P	-	MT135P-R935	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W35	2449966.58	1995 Sep 6 0200	MT-135P	-	MT135P-R936	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W36	2449980.59	1995 Sep 20 0203	MT-135P	-	MT135P-R937	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W37	2449994.59	1995 Oct 4 0203	MT-135P	-	MT135P-R938	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W38	2450001.58	1995 Oct 11 0200	MT-135P	-	MT135P-R939	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W39	2450008.58	1995 Oct 18 0200	MT-135P	-	MT135P-R940	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W40	2450016.58	1995 Oct 26 0200	MT-135P	-	MT135P-R941	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W41	2450030.59	1995 Nov 9 0215	MT-135P	-	MT135P-R942	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W42	2450037.58	1995 Nov 16 0200	MT-135P	-	MT135P-R943	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W43	2450043.59	1995 Nov 22 0203	MT-135P	-	MT135P-R944	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W44	2450050.59	1995 Nov 29 0205	MT-135P	-	MT135P-R945	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1995-W12	2450065.58	1995 Dec 14 0200:00	MT-135P	-	MT135P-R946	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1995-W13	2450071.58	1995 Dec 20 0200:00	MT-135P	-	MT135P-R947	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1995-W14	2450078.58	1995 Dec 27 0200:00	MT-135P	-	MT135P-R948	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W02	2450093.59	1996 Jan 11 0215:00	MT-135P	-	MT135P-R949	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W03	2450099.58	1996 Jan 17 0200:00	MT-135P	-	MT135P-R950	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W05	2450106.58	1996 Jan 24 0200:00	MT-135P	-	MT135P-R951	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W07	2450113.59	1996 Jan 31 0204:59	MT-135P	-	MT135P-R952	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W14	2450127.58	1996 Feb 14 0200	MT-135P	-	MT135P-R953	0.000	JMA	SS	-	JMA/	Meteo	SRJ	-	-
1996-W08	2450341.60	1996 Sep 15 0230	MT-135	-	MT-135-64	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1996-W09	2450421.59	1996 Dec 4 0203:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W10	2450428.58	1996 Dec 11 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W11	2450435.58	1996 Dec 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1996-W13	2450442.58	1996 Dec 25 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W01	2450456.59	1997 Jan 8 0204:59	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W03	2450461.58	1997 Jan 13 0200	MT-135	-	MT-135-65	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1997-W04	2450463.58	1997 Jan 15 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W05	2450470.58	1997 Jan 22 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W06	2450477.59	1997 Jan 29 0204:59	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W07	2450491.58	1997 Feb 12 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W08	2450498.59	1997 Feb 19 0210:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W10	2450512.58	1997 Mar 5 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W11	2450526.58	1997 Mar 19 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W12	2450533.58	1997 Mar 26 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W15	2450547.58	1997 Apr 9 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W17	2450554.58	1997 Apr 16 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W19	2450568.58	1997 Apr 30 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W21	2450590.59	1997 May 22 0203:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W22	2450596.58	1997 May 28 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W24	2450610.58	1997 Jun 11 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W25	2450617.58	1997 Jun 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W27	2450624.58	1997 Jun 25 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W29	2450639.58	1997 Jul 10 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W33	2450646.58	1997 Jul 17 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W34	2450652.58	1997 Jul 23 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W42	2450666.58	1997 Aug 6 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W57	2450673.58	1997 Aug 13 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W65	2450687.58	1997 Aug 27 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W68	2450699.58	1997 Sep 8 0200	MT-135	-	MT-135-66	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1997-W69	2450700.58	1997 Sep 9 0200	MT-135	-	MT-135-67	0.000	ISAS	SS	-	TSUK/	Aeron	ISASRpt679	-	-
1997-W70	2450701.59	1997 Sep 10 0210:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W72	2450709.58	1997 Sep 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W73	2450722.58	1997 Oct 1 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W74	2450729.58	1997 Oct 8 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W76	2450743.58	1997 Oct 22 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W79	2450757.58	1997 Nov 5 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W80	2450764.58	1997 Nov 12 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-A35	2450771.58	1997 Nov 19 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W81	2450785.58	1997 Dec 3 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W82	2450792.58	1997 Dec 10 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W83	2450799.58	1997 Dec 17 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1997-W84	2450806.58	1997 Dec 24 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W01	2450821.58	1998 Jan 8 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W02	2450827.58	1998 Jan 14 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W03	2450834.58	1998 Jan 21 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W04	2450848.58	1998 Feb 4 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W06	2450855.58	1998 Feb 11 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W07	2450862.58	1998 Feb 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W09	2450876.58	1998 Mar 4 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W10	2450890.58	1998 Mar 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W11	2450897.58	1998 Mar 25 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W12	2450911.59	1998 Apr 8 0207:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W14	2450919.58	1998 Apr 16 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W15	2450932.58	1998 Apr 29 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W17	2450953.58	1998 May 20 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W18	2450960.58	1998 May 27 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W20	2450975.59	1998 Jun 11 0204:59	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W21	2450981.58	1998 Jun 17 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W22	2450988.58	1998 Jun 24 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W23	2451003.58	1998 Jul 9 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1998-W24	2451009.59	1998 Jul 15 0203:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W25	2451023.58	1998 Jul 29 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W26	2451030.58	1998 Aug 5 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W27	2451045.58	1998 Aug 20 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W28	2451063.58	1998 Sep 7 0200	MT-135	-	MT-135-68	0.000	ISAS	SS	-	ISAS/	Aeron	ISASRpt679	-	-
1998-W29	2451065.58	1998 Sep 9 0200	MT-135	-	MT-135-69	0.000	ISAS	SS	-	ISAS/	Aeron	ISASRpt679	-	-
1998-W30	2451065.58	1998 Sep 9 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W31	2451073.58	1998 Sep 17 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W32	2451079.59	1998 Sep 23 0203:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W33	2451093.58	1998 Oct 7 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W34	2451100.58	1998 Oct 14 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W36	2451107.58	1998 Oct 21 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W37	2451121.58	1998 Nov 4 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W38	2451128.58	1998 Nov 11 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W39	2451135.58	1998 Nov 18 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W40	2451149.58	1998 Dec 2 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1998-W41	2451170.58	1998 Dec 23 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
1999-W31	2451428.58	1999 Sep 7 0200	MT-135	-	MT-135-70	0.000	ISAS	SS	-	ISAS/	Aeron	ISASRpt679	-	-
1999-W33	2451432.58	1999 Sep 11 0200	MT-135	-	MT-135-71	0.000	ISAS	SS	-	ISAS/	Aeron	ISASRpt679	-	-
2000-W01	2451555.58	2000 Jan 12 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W02	2451562.58	2000 Jan 19 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W04	2451569.58	2000 Jan 26 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W05	2451583.58	2000 Feb 9 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W06	2451598.58	2000 Feb 24 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W07	2451618.58	2000 Mar 15 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W08	2451646.58	2000 Apr 12 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W09	2451653.59	2000 Apr 19 0210:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W14	2451689.58	2000 May 25 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W15	2451695.58	2000 May 31 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W16	2451716.58	2000 Jun 21 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W17	2451724.58	2000 Jun 29 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W18	2451731.58	2000 Jul 6 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W19	2451744.58	2000 Jul 19 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W20	2451759.58	2000 Aug 3 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W21	2451779.58	2000 Aug 23 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W22	2451794.58	2000 Sep 7 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W23	2451805.58	2000 Sep 18 0200:00	MT-135	-	MT-135-72	0.000	ISAS	SS	-	ISAS/	Aeron	isas.go.jp	-	-
2000-W24	2451806.58	2000 Sep 19 0200:00	MT-135	-	MT-135-73	0.000	ISAS	SS	-	ISAS/	Aeron	isas.go.jp	-	-
2000-W25	2451807.58	2000 Sep 20 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W26	2451821.58	2000 Oct 4 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W27	2451836.58	2000 Oct 19 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W28	2451849.59	2000 Nov 1 0215:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W29	2451863.58	2000 Nov 15 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W30	2451870.59	2000 Nov 22 0215:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W31	2451885.58	2000 Dec 7 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2000-W34	2451898.58	2000 Dec 20 0200:00	MT-135P	-	-	0.000	JMA	SS	-	JMA/	Meteo	DSI-5850	-	-
2001-W01	2451989.50	2001 Mar 21	MT-135	-	MT-135 R1119	0.000	ISAS	SS	-	ISAS/	Aeron	www.ihi.co.jp	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-005	2450491.70	1997 Feb 12 0450	M-V	-	M-V-1	VSOP/KM	MUSES-B	-	-	KASC	M-V	-	-	21527	-	-
1998-041	2450998.26	1998 Jul 3 1812	M-V	-	M-V-3	PLANET B/KM	Planet B	-	-	KASC	M-V	-	-	150000	-	-
2000-U01	2451584.56	2000 Feb 10 0130	M-V	-	M-V-4	ASTRO E	ASTRO E	-	-	KASC	M-V	-	-	200	-	-
2003-019	2452768.69	2003 May 9 0429:25	M-V	1	M-V-5	MUSES C/KM	MUSES C	-	-	KASC	M-V	-	-	150000	-	-
2005-025	2453561.65	2005 Jul 10 0330	M-V	1	M-V-6	ASTRO E2	ASTRO-E2	-	-	KASC	M-V	-	-	574	-	-
2006-005	2453788.39	2006 Feb 21 2128:00	M-V	1	M-V-8	ASTRO F	ASTRO-F	-	-	KASC	M-V	-	-	741	-	-
2006-041	2454001.40	2006 Sep 22 2136:00	M-V	1	M-V-7	SOLAR B	SOLAR-B	-	-	KASC	M-V	-	-	697	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-005	2450491.70	1997 Feb 12 0450	M-V	-	M-V-1	0.956	ISAS	OS	-	G	Sat MEO OO	Wire	-	-
1998-041	2450998.26	1998 Jul 3 1812	M-V	-	M-V-3	0.664	ISAS	DS	-	G	Sat DSO OO	Wire	-	-
2000-U01	2451584.56	2000 Feb 10 0130	M-V	-	M-V-4	1.650	ISAS	OF	S1P*	G	Sat LEO O	Wire	-	S1 nozzle fail, uppers fired
2003-019	2452768.69	2003 May 9 0429:25	M-V	1	M-V-5	0.511	ISAS	DS	-	G	Sat EEO SE	Wire	-	-
2005-025	2453561.65	2005 Jul 10 0330	M-V	1	M-V-6	1.700	ISAS	OS	-	G	Sat LEO O	Wire	-	-
2006-005	2453788.39	2006 Feb 21 2128:00	M-V	1	M-V-8	0.966	ISAS	OS	-	G	Sat SSO O	Wire	-	-
2006-041	2454001.40	2006 Sep 22 2136:00	M-V	1	M-V-7	0.910	ISAS	OS	-	G	Sat SSO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1948-A15	2432747.55	1948 Jul 15 0105	RTV-A-2	-	MX-774	-	-	-	-	WS	LC33	-	-	2	-	-
1948-A33	2432822.38	1948 Sep 27 2105	RTV-A-2	-	MX-774	-	-	-	-	WS	LC33	-	-	39	-	-
1948-M03	2432888.42	1948 Dec 2 2201	RTV-A-2	-	MX-774	-	-	-	-	WS	LC33	-	-	50	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1948-A15	2432747.55	1948 Jul 15 0105	RTV-A-2	-	MX-774	0.000	WRIGHT	MF	U	-	Test	Mitchell-Bossart	-	-
1948-A33	2432822.38	1948 Sep 27 2105	RTV-A-2	-	MX-774	0.000	WRIGHT	MF	U	-	Test	Mitchell-Bossart	-	-
1948-M03	2432888.42	1948 Dec 2 2201	RTV-A-2	-	MX-774	0.000	WRIGHT	MS	-	-	Test	Chapman	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-S115	2445503.59	1983 Jun 18 0210	Peacekeeper	-	FTM-1	Mk 12A RV? x 6	-	-	-	V	TP-01	-	-	1000?	6704	KMR BOA-N
1983-S194	2445622.20	1983 Oct 14 1655	Peacekeeper	-	FTM-2	Mk 12A RV? x 6	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-N
1983-S214	2445689.21	1983 Dec 20 1700	Peacekeeper	-	FTM-3	Mk 12A RV? x 8	-	-	-	V	TP-01	-	-	1000?	-	GUAM BOA-1
1984-S71	2445790.15	1984 Mar 30 1530	Peacekeeper	-	FTM-4	Mk 12A RV? x 10	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-N
1984-S94	2445867.20	1984 Jun 15 1650	Peacekeeper	-	FTM-5	Mk 12A RV x 5, Mk 21 RV	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-N
1984-S119	2445975.11	1984 Oct 1 1434	Peacekeeper	-	FTM-6	Mk 12A/21? RV x 6	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-N
1985-S33	2446098.43	1985 Feb 1 2215	Peacekeeper	-	FTM-7	Mk 21 RV x 6	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-N
1985-S80	2446220.22	1985 Jun 3 1722	Peacekeeper	-	FTM-8	Mk 21 RV x 6?	-	-	-	V	TP-01	-	-	1000?	-	KMR BOA-1
1985-S105	2446301.19	1985 Aug 23 1639	Peacekeeper	-	FTM-9	Mk 21 RV x 6	-	-	-	V	LF08	-	-	1000?	-	KMR
1985-S137	2446383.21	1985 Nov 13 1703	Peacekeeper	-	FTM-10	Mk 21 RV x 4	-	[700 km NE of Guam]	-	V	LF08	-	-	1000?	-	GUAM BOA
1986-S27	2446497.40	1986 Mar 7 2140	Peacekeeper	-	FTM-11	Mk 21 RV x 8	-	-	-	V	LF08	-	-	1000?	-	KMR BOA-N
1986-S49	2446572.17	1986 May 21 1600	Peacekeeper	-	FTM-12	Mk 21 RV x 10	-	-	-	V	LF08	-	-	1000?	-	KMR
1986-S81	2446666.27	1986 Aug 23 1825	Peacekeeper	-	FTM-15	Mk 21 RV x 9	-	-	-	V	LF02	-	-	1000?	-	KMR BOA-N,E
1986-S93	2446692.02	1986 Sep 18 1230	Peacekeeper	-	FTM-13	Mk 21 RV x 6	-	-	-	V	LF08	-	-	1000?	-	KMR BOA-N
1986-S115	2446770.17	1986 Dec 5 1600	Peacekeeper	-	FTM-14	Mk 21 RV x 10 (2 ft dep)	-	-	-	V	LF02	-	-	1000?	-	KMR BOA-N
1987-S51	2446840.18	1987 Feb 13 1615	Peacekeeper	-	FTM-16	Mk 21 RV x 7	-	-	-	V	LF08	-	-	1000?	-	KMR BOA-N
1987-S63	2446876.14	1987 Mar 21 1515	Peacekeeper	-	FTM-17	Mk 21 RV x 6	-	-	-	V	LF08	-	-	1000?	-	KMR BOA-N
1989-S46	2447605.24	1989 Mar 19 1745	Peacekeeper	-	FTM-18	Mk 21 RV x 7	-	-	-	V	LF08	-	-	1000?	-	KMR BOA-1
1989-S93	2447784.29	1989 Sep 14 1900	Peacekeeper	-	01PA 75/46/58/76	Mk 21 RV x 9	GT 01PA	-	-	V	LF02	-	-	200?	-	(KMR)
1990-S57	2447958.50	1990 Mar 8	Peacekeeper	-	02PA (85-161)	-	GT 02PA	-	-	V	LF05	-	-	1000?	-	KMR ILL
1990-S93	2448028.25	1990 May 16 1801	Peacekeeper	-	03PA (86-450)	-	GT 03PA	-	-	V	LF08	-	-	1000?	-	-
1990-S132	2448147.50	1990 Sep 13	Peacekeeper	-	04PA (85-163)	-	GT 04PA	-	-	V	LF05	-	-	1000?	-	-
1991-S86	2448327.93	1991 Mar 12 1023	Peacekeeper	-	05PA (85-176)	-	GT 05PA	-	-	V	LF02	-	-	1000?	-	-
1991-S112	2448419.24	1991 Jun 11 1747	Peacekeeper	-	06PA (84-546)	-	GT 06PA	-	-	V	LF08	-	-	1000?	-	-
1991-S149	2448516.92	1991 Sep 17 1008	Peacekeeper	-	07PA (86-442)	-	GT 07PA	-	-	V	LF02	-	-	1000?	-	-
1992-S26	2448686.11	1992 Mar 4 1445	Peacekeeper	-	08PA (85-173)	-	GT 08PA	-	-	V	LF05	-	-	1000?	-	-
1992-S60	2448804.60	1992 Jul 1 0220	Peacekeeper	-	09PA (84-549)	-	GT 09PA	-	-	V	LF02	-	-	1000?	-	-
1992-S85	2448881.64	1992 Sep 16 0315	Peacekeeper	-	10PA (87-146)	-	GT 10PA	-	-	V	LF05	-	-	1000?	-	KMR ILL
1993-S19	2449050.85	1993 Mar 4 0819	Peacekeeper	-	11PA (87-147)	Mk 21 RV x 3?	GT 11PA	5Tx3	-	V	LF02	-	-	1000?	-	KMR
1993-S47	2449182.64	1993 Jul 14 0319	Peacekeeper	-	12PA (84-542)	Mk 21 RV x 8	GT 12PA	5Fx4/5Tx2	-	V	LF05	-	-	1000?	-	BOA-1?
1993-S60	2449245.50	1993 Sep 15	Peacekeeper	-	13PA (88-336)	Mk 21 RV x 3?	GT 13PA	-	-	V	LF02	-	-	1000?	-	KMR
1994-S22	2449419.65	1994 Mar 8 0339	Peacekeeper	-	14PA (84-559)	Mk 21 RV x 8	GT 14PA	5F/5Tx2/SPO 5Tx5	-	V	LF05	-	-	1000?	-	KMR
1994-017	2449425.44	1994 Mar 13 2232	ARPA Taurus	-	T1 1110	STEP 0	P90-5	-	-	V	576E	-	-	643	-	-
1994-S34	2449489.50	1994 May 17	Peacekeeper	-	15PA (84-550)	Mk 21 RV x 8	GT 15PA	5F/5Tx2/SPO 5Tx5	-	V	LF02	-	-	1000?	-	-
1994-S62	2449603.11	1994 Sep 7 1441	Peacekeeper	-	16PA (84-551)	Mk 21 RV x 8	GT 16PA	5F/5Tx2/SPO 5Tx5	-	V	LF05	-	-	1000?	-	-
1995-S04	2449736.83	1995 Jan 19 0801	Peacekeeper	-	17PA (84-548)	Mk 21 RV x 3?	GT 17PA	5F/5Tx2	-	V	LF02	-	-	1000?	-	KMR ILL
1995-S44	2449882.50	1995 Jun 14	Peacekeeper	-	18PA (84-0544)	Mk 21 RV x 3?	GT 18PA	5F/5Tx2	-	V	LF05	-	-	1000?	-	-
1995-F04	2449945.44	1995 Aug 15 2230	LLV-1	-	DLV	Gemstar	Vitasat 1	-	-	VS	SLC6	-	-	147	-	-
1995-S60	2449959.50	1995 Aug 30	Peacekeeper	-	19PA (90-0394)	Mk 21 RV x 3?	GT 19PA	-	-	V	LF02	-	-	1000?	-	-
1996-S20	2450211.83	1996 May 8 0801	Peacekeeper	-	20PA (87-0144)	Mk 21 RV x 5?	GT 20PA	-	-	V	LF05	-	-	1000?	-	-
1996-S25	2450233.83	1996 May 30 0801	Peacekeeper	-	21PA (86-440)	Mk 21 RV x 5?	GT 21PA	-	-	V	LF02	-	-	1000?	-	-
1996-S55	2450337.83	1996 Sep 11 0801	Peacekeeper	-	22PA (86-165)	Mk 21 RV x 7?	GT 22PA	-	-	V	LF05	-	-	1000?	-	KMR ILL
1996-S68	2450394.05	1996 Nov 6 1306	Peacekeeper	-	23PA (85-169)	Mk 21 RV x 7?	GT 23PA	-	-	V	LF02	-	-	1000?	-	KMR ILL
1997-S38	2450576.83	1997 May 8 0801	Peacekeeper	-	24PA (84-555)	Mk 21 RV x 9	GT 24PA	-	-	V	LF05	-	-	1000?	-	-
1997-044	2450683.79	1997 Aug 23 0651:01	LMLV-1	-	LM-002	Lewis	SSTI/Lewis	-	-	VS	SLC6	-	-	321	-	-
1997-S60	2450708.83	1997 Sep 17 0801	Peacekeeper	-	25PA (86-448)	Mk 21 RV x 7	FDEP GT 25PA	-	-	V	LF05	-	-	1000?	-	-
1997-S73	2450758.38	1997 Nov 5 2101	Peacekeeper	-	26PA (86-443)	Mk 21 RV x 8	FDEP GT 26PA	-	-	V	LF02	-	-	1000?	-	-
1998-001	2450820.60	1998 Jan 7 0228:44	Athena-2	-	LM-004	Lunar Prospector	LP	-	-	SPFL	SLC46	-	-	150000	-	-
1998-007	2450855.06	1998 Feb 10 1320	Taurus 2210	-	T2	GFO/Orbcomm	GFO	-	-	V	576E	-	-	885	-	-
1998-S42	2450940.94	1998 May 7 1030	Peacekeeper	-	27PA (87-0049)	Mk 21 RV x 8	FDEP GT 27PA	-	-	V	LF05	-	-	1000?	-	-
1998-055	2451089.92	1998 Oct 3 1004:49	ARPA Taurus	-	T3 1110	STEX/USA 141	STEX	NROL-08	-	V	576E	-	-	766	-	-
1999-002	2451205.52	1999 Jan 27 0034:02	Athena-1	-	LM-006	ROCSAT	ROCSAT-1	-	-	SPFL	SLC46	-	-	655	-	-
1999-S11	2451247.83	1999 Mar 10 0801	Peacekeeper	-	28PA (88-0335)	Mk 21 RV x 8	FDEP GT 28PA	-	-	V	LF02	-	-	1000?	-	-
1999-F01	2451296.27	1999 Apr 27 1822:01	Athena-2	-	LM-005	Ikonos-1	Ikonos 1	-	-	VS	SLC6	-	-	200?	-	-
1999-051	2451446.26	1999 Sep 24 1821:08	Athena-2	-	LM-007	Ikonos-2	Ikonos 2	-	-	VS	SLC6	-	-	682	-	-
1999-070	2451533.80	1999 Dec 21 0713	Taurus 2110	-	T4	KOMPSAT/ACRIMSAT	KOMPSAT	-	-	V	576E	-	-	729	-	-
2000-S13	2451611.90	2000 Mar 8 0940:30	Peacekeeper	-	29PA (84-0553)	Mk 21 RV x 8	FDEP GT 29PA	-	-	V	LF05	-	-	1000	-	-
2000-014	2451615.90	2000 Mar 12 0929	Taurus 1110	-	T5	MTI	MTI	-	-	V	576E	-	-	614	-	-
2001-S38	2452117.83	2001 Jul 27 0801	Peacekeeper	-	30PA (85-0162)	Mk 21 RV x 9	FDEP GT 30PA	-	-	V	LF02	-	-	100	-	-
2001-U01	2452174.28	2001 Sep 21 1849:30	Taurus 2110	-	T6	Orbview-4/QuikTOMS	Warfighter-1	-	-	V	576E	-	-	427	-	-
2001-043	2452182.61	2001 Sep 30 0240	Athena-1	-	LM-001	Kodiak Star	Starshine 3	-	-	KLC	LP1	-	-	802	-	-
2002-S36	2452428.83	2002 Jun 3 0801	Peacekeeper	-	31PA (84-0543)	Mk 21 RV x 9	FDEP GT 31PA	-	-	V	LF02	-	-	1000?	-	-
2003-S07	2452710.90	2003 Mar 12 0929	Peacekeeper	-	32PA (85-0174)	Mk 21 RV x 8	FDEP GT 32PA	-	-	V	LF02	-	-	1000?	-	-
2004-018	2453146.24	2004 May 20 1747:03	Taurus 3210	-	T7 (XL)	ROCSAT-2	ROCSAT-2	-	-	V	576E	-	-	903	-	-
2004-S26	2453207.83	2004 Jul 21 0801	Peacekeeper	-	33PA (84-0554)	Mk 21 RV x 8	FDEP GT 33PA	-	-	V	LF05	-	-	1000?	-	-
2009-F01	2454886.91	2009 Feb 24 0955:30	Taurus 3110	-	T8 (XL)	OCO	Orbiting Carbon Observat	-	-	V	576E	-	-	500?	-	-
2010-S30	2455309.46	2010 Apr 22 2300	Minotaur IV Lite	-	1	HTV-2a	-	-	-	VS	SLC8	-	-	100?	-	-
2010-048	2455465.70	2010 Sep 26 0441:00	Minotaur IV	-	2	SBSS	SBSS Block 10	-	-	VS	SLC8	-	-	638	-	-
2010-062	2455520.56	2010 Nov 20 0125:00	Minotaur IV	H	3	STP S26	STP-SIV	-	-	KLC	LP1	-	-	1432	-	-
2011-F01	2455624.92	2011 Mar 4 1009:43	Taurus 3110	-	T9 (XL)	Glory	Glory	-	-	V	576E	-	-	550?	-	-
2011-S36	2455785.11	2011 Aug 11 1445	Minotaur IV Lite	-	4	HTV-2b	-	-	-	VS	SLC8	-	-	100?	-	-
2011-052	2455832.16	2011 Sep 27 1549	Minotaur IV+	-	5	Tacsat-4	TacSat-4	-	-	KLC	LP1	-	-	12337	-	-
2013-047	2456542.64	2013 Sep 7 0327:00	Minotaur V	-	1	LADEE	LADEE	-	-	MARS	Pad 0B	-	-	150000	-	-
2017-050	2457991.75	2017 Aug 26 0604	Minotaur IV	2	6	ORS-5	ORS-5	-	-	SPFLA	SLC46	-	-	605	-	-
2017-068	2458058.40	2017 Oct 31 2137	Minotaur-C 3210	-	T10 (XL)	Skysat-8-13/Flock 3m	Planet Express	-	-	V	576E	-	-	533	-	-
2019-A96	2458666.96	2019 Jul 2 1100	ATB	-	1	Orion AA-2	Orion AA-2	-	-	SPFLA	SLC46	-	-	10	-	-
2020-046	2459046.07	2020 Jul 15 1346:00	Minotaur IV	-	7	NROL-129	NROL-129	NROL-129	-	MARS	Pad 0B	-	-	593	-	-
2025-077	2460782.31	2025 Apr 16 1933	Minotaur IV	-	8	NROL-174	NROL-174 Asterion	NROL-174	-	VS	SLC8	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-S115	2445503.59	1983 Jun 18 0210	Peacekeeper	-	FTM-1	0.000	AFSMC	MS	-	-	Test	VAFB/Wire	-	-
1983-S194	2445622.20	1983 Oct 14 1655	Peacekeeper	-	FTM-2	0.000	AFSMC	MS	-	-	Test	Ulrich/Wire	VAFB	-
1983-S214	2445689.21	1983 Dec 20 1700	Peacekeeper	-	FTM-3	0.000	AFSMC	MS	-	-	Test	Ulrich/Wire	VAFB	-
1984-S71	2445790.15	1984 Mar 30 1530	Peacekeeper	-	FTM-4	0.000	AFSMC	MS	-	-	Test	Ulrich/Wire	VAFB	-
1984-S94	2445867.20	1984 Jun 15 1650	Peacekeeper	-	FTM-5	0.000	AFSMC	MS	-	-	Test	VAFB/Wire	-	-
1984-S119	2445975.11	1984 Oct 1 1434	Peacekeeper	-	FTM-6	0.000	AFSMC	MS	-	-	Test	BythevilleCN/Ulrich	VAFB	-
1985-S33	2446098.43	1985 Feb 1 2215	Peacekeeper	-	FTM-7	0.000	AFSMC	MS	-	-	Test	UPI/Ulrich	VAFB	-
1985-S80	2446220.22	1985 Jun 3 1722	Peacekeeper	-	FTM-8	0.000	AFSMC	MS	-	-	Test	Ulrich/SMT	VAFB	-
1985-S105	2446301.19	1985 Aug 23 1639	Peacekeeper	-	FTM-9	0.000	AFSMC	MS	-	-	Test	VAFB/Wire	-	-
1985-S137	2446383.21	1985 Nov 13 1703	Peacekeeper	-	FTM-10	0.000	AFSMC	MS	-	-	Test	SFChron851114	VAFB	AWST851118-25
1986-S27	2446497.40	1986 Mar 7 2140	Peacekeeper	-	FTM-11	0.000	AFSMC	MS	-	-	Test	Ulrich/Wire	VAFB	-
1986-S49	2446572.17	1986 May 21 1600	Peacekeeper	-	FTM-12	0.000	AFSMC	MS	-	-	Test	AP/Ulrich	VAFB	-
1986-S81	2446666.27	1986 Aug 23 1825	Peacekeeper	-	FTM-15	0.000	AFSMC/SAC	MS	-	SAC/	Test (SAC Crew)	VAFB/Wire	SanJoseMN860824	-
1986-S93	2446692.02	1986 Sep 18 1230	Peacekeeper	-	FTM-13	0.000	AFSMC	MS	-	-	Test	VAFB/Wire	-	-
1986-S115	2446770.17	1986 Dec 5 1600	Peacekeeper	-	FTM-14	0.000	AFSMC	MS	-	-	Test	VAFB	-	-
1987-S51	2446840.18	1987 Feb 13 1615	Peacekeeper	-	FTM-16	0.000	AFSMC	MS	-	-	Test	AP/Ulrich	VAFB	-
1987-S63	2446876.14	1987 Mar 21 1515	Peacekeeper	-	FTM-17	0.000	AFSMC	MS	-	-	Test	MM-newsletter	-	-
1989-S46	2447605.24	1989 Mar 19 1745	Peacekeeper	-	FTM-18	0.000	AFSMC	MS	-	-	Test	VAFB/Wire	-	-
1989-S93	2447784.29	1989 Sep 14 1900	Peacekeeper	-	01PA 75/46/58/76	0.000	SAC	MF	S1	-	OT	VAFB/Wire	-	-
1990-S57	2447958.50	1990 Mar 8	Peacekeeper	-	02PA (85-161)	0.000	SAC	MS	-	90MW/	OT	VAFB	AWST900312	-
1990-S93	2448028.25	1990 May 16 1801	Peacekeeper	-	03PA (86-450)	0.000	SAC	MS	-	90MW/	OT	AP/Ulrich	VAFB	-
1990-S132	2448147.50	1990 Sep 13	Peacekeeper	-	04PA (85-163)	0.000	SAC	MS	-	90MW/	OT	VAFB	-	-
1991-S86	2448327.93	1991 Mar 12 1023	Peacekeeper	-	05PA (85-176)	0.000	SAC	MS	-	90MW/	OT	PressCourier910313	VAFB	-
1991-S112	2448419.24	1991 Jun 11 1747	Peacekeeper	-	06PA (84-546)	0.000	SAC	MS	-	90MW/	OT	JCM	-	-
1991-S149	2448516.92	1991 Sep 17 1008	Peacekeeper	-	07PA (86-442)	0.000	SAC	MS	-	90MW/	OT	VAFB	-	-
1992-S26	2448686.11	1992 Mar 4 1445	Peacekeeper	-	08PA (85-173)	0.000	SAC	MS	-	90MW/	OT	Ulrich/Wire	VAFB	-
1992-S60	2448804.60	1992 Jul 1 0220	Peacekeeper	-	09PA (84-549)	0.000	ACC	MS	-	90MW/	OT	AWST920706-17	-	-
1992-S85	2448881.64	1992 Sep 16 0315	Peacekeeper	-	10PA (87-146)	0.000	ACC	MS	-	90MW/	OT	JCM	SanJoseMer920916	-
1993-S19	2449050.85	1993 Mar 4 0819	Peacekeeper	-	11PA (87-147)	0.000	ACC	MS	-	90MW/	OT	AP/Ulrich	VAFB	-
1993-S47	2449182.64	1993 Jul 14 0319	Peacekeeper	-	12PA (84-542)	0.000	AFSPC	MS	-	90MW/	OT	DailyNewsLA930715	Rigg	-
1993-S60	2449245.50	1993 Sep 15	Peacekeeper	-	13PA (88-336)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1994-S22	2449419.65	1994 Mar 8 0339	Peacekeeper	-	14PA (84-559)	0.000	AFSPC	MS	-	90MW/	OT	Wire/Ulrich	VAFB	-
1994-017	2449425.44	1994 Mar 13 2232	ARPA Taurus	-	T1 1110	0.700	OSCC	OS	-	CG/G	Sat LEO O	WSL	AWST940321-26	-
1994-S34	2449489.50	1994 May 17	Peacekeeper	-	15PA (84-550)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1994-S62	2449603.11	1994 Sep 7 1441	Peacekeeper	-	16PA (84-551)	0.000	AFSPC	MS	-	90MW/	OT	AWST940912-19	-	-
1995-S04	2449736.83	1995 Jan 19 0801	Peacekeeper	-	17PA (84-548)	0.000	AFSPC	MS	-	90MW/	OT	OrlandoSen950120	Rigg	-
1995-S44	2449882.50	1995 Jun 14	Peacekeeper	-	18PA (84-0544)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1995-F04	2449945.44	1995 Aug 15 2230	LLV-1	-	DLV	0.136	LMA	OF	S1G	C	Sat LEO SO	AWST950821-18	-	S1 TVC,IMU fail
1995-S60	2449959.50	1995 Aug 30	Peacekeeper	-	19PA (90-0394)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1996-S20	2450211.83	1996 May 8 0801	Peacekeeper	-	20PA (87-0144)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1996-S25	2450233.83	1996 May 30 0801	Peacekeeper	-	21PA (86-440)	0.000	AFSPC	MS	-	90MW/	OT	VAFB	-	-
1996-S55	2450337.83	1996 Sep 11 0801	Peacekeeper	-	22PA (86-165)	0.000	AFSPC	MS	-	90MW/	OT	Rigg	LMA-WWW	-
1996-S68	2450394.05	1996 Nov 6 1306	Peacekeeper	-	23PA (85-169)	0.000	AFSPC	MS	-	90MW/	OT	LMA-WWW	-	-
1997-S38	2450576.83	1997 May 8 0801	Peacekeeper	-	24PA (84-555)	0.000	AFSPC	MS	-	90MW/	OT	LMA-WWW	VAFB-WWW	-
1997-044	2450683.79	1997 Aug 23 0651:01	LMLV-1	-	LM-002	0.403	LMA	OS	-	C/G	Sat SSO SO	AWST970901-28	-	-
1997-S60	2450708.83	1997 Sep 17 0801	Peacekeeper	-	25PA (86-448)	0.000	90SW	MS	-	90MW/	OT	Wire	-	-
1997-S73	2450758.38	1997 Nov 5 2101	Peacekeeper	-	26PA (86-443)	0.000	90SW	MS	-	90MW/	OT	Wire	-	-
1998-001	2450820.60	1998 Jan 7 0228:44	Athena-2	-	LM-004	1.524	LMA	DS	-	C/G	Sat LEO SO	Wire	-	-
1998-007	2450855.06	1998 Feb 10 1320	Taurus 2210	-	T2	0.450	OSCC	OS	-	CG/G	Sat LEO O	Wire	-	-
1998-S42	2450940.94	1998 May 7 1030	Peacekeeper	-	27PA (87-0049)	0.000	90SW	MS	-	90SW/	OT	VAFB-WWW	-	-
1998-055	2451089.92	1998 Oct 3 1004:49	ARPA Taurus	-	T3 1110	0.700	OSCC	OS	-	CG/G	Sat LEO O	Rigg	-	-
1999-002	2451205.52	1999 Jan 27 0034:02	Athena-1	-	LM-006	0.403	LMA	OS	-	C/OG	Sat LEO SO	Wire	-	-
1999-S11	2451247.83	1999 Mar 10 0801	Peacekeeper	-	28PA (88-0335)	0.000	90SW	MS	-	90SW/	OT	VAFB-WWW	-	-
1999-F01	2451296.27	1999 Apr 27 1822:01	Athena-2	-	LM-005	0.726	LMA	OF	FF	C	Sat SSO OO	Wire	-	Fairing ft sep
1999-051	2451446.26	1999 Sep 24 1821:08	Athena-2	-	LM-007	0.726	LMA	OS	-	C	Sat SSO OO	www.spaceimaging.com	-	-
1999-070	2451533.80	1999 Dec 21 0713	Taurus 2110	-	T4	0.655	OSCC	OS	-	CG/OG	Sat SSO O	Wire	-	-
2000-S13	2451611.90	2000 Mar 8 0940:30	Peacekeeper	-	29PA (84-0553)	0.000	576FTS	MS	-	90SW/	OT	VAFB-WWW	-	-
2000-014	2451615.90	2000 Mar 12 0929	Taurus 1110	-	T5	0.597	OSCC	OS	-	CG/G	Sat SSO O	Wire	-	-
2001-S38	2452117.83	2001 Jul 27 0801	Peacekeeper	-	30PA (85-0162)	0.000	AFSPC	MF	U	90SW/	OT	VAFB-WWW	-	-
2001-U01	2452174.28	2001 Sep 21 1849:30	Taurus 2110	-	T6	0.610	OSCC	OF	S2G*	CG/G	Sat SSO O	Wire	-	TVC, S2 guidance
2001-043	2452182.61	2001 Sep 30 0240	Athena-1	-	LM-001	0.184	LMA	OS	-	C/G	Sat LEO SO	Wire	-	-
2002-S36	2452428.83	2002 Jun 3 0801	Peacekeeper	-	31PA (84-0543)	0.000	AFSMC	MS	-	90SW/	OT	VAFB-PAO	-	-
2003-S07	2452710.90	2003 Mar 12 0929	Peacekeeper	-	32PA (85-0174)	0.000	AFSMC	MS	-	90SW/	OT	vandenberg.af.mil	-	-
2004-018	2453146.24	2004 May 20 1747:03	Taurus 3210	-	T7 (XL)	0.764	OSCC	OS	-	CG/OG	Sat SSO O	Wire	-	-
2004-S26	2453207.83	2004 Jul 21 0801	Peacekeeper	-	33PA (84-0554)	0.000	AFSMC	MS	-	90SW/	OT	vandenberg.af.mil	-	-
2009-F01	2454886.91	2009 Feb 24 0955:30	Taurus 3110	-	T8 (XL)	0.441	OSCC	OF	FF	CG/G	Sat SSO O	Wire	-	Fairing ft sep
2010-S30	2455309.46	2010 Apr 22 2300	Minotaur IV Lite	-	1	0.000	RSLP	MS	-	-	Test	Wire	-	-
2010-048	2455465.70	2010 Sep 26 0441:00	Minotaur IV	-	2	1.031	RSLP	OS	-	CG/G	Sat SSO O	Wire	-	-
2010-062	2455520.56	2010 Nov 20 0125:00	Minotaur IV	H	3	0.809	RSLP	OS	-	CG/G	Sat LEO OO	Wire	-	-
2011-F01	2455624.92	2011 Mar 4 1009:43	Taurus 3110	-	T9 (XL)	0.528	OSCC	OF	FF	CG/G	Sat SSO O	Wire	-	Fairing ft sep
2011-S36	2455785.11	2011 Aug 11 1445	Minotaur IV Lite	-	4	0.000	OSCC/RSLP	MS	-	-	Test	Wire	-	-
2011-052	2455832.16	2011 Sep 27 1549	Minotaur IV+	-	5	0.460	OSCC/RSLP	OS	-	CG/G	Sat MTO O	Wire	-	-
2013-047	2456542.64	2013 Sep 7 0327:00	Minotaur V	-	1	0.383	OSCC	OS	-	CG/G	Sat DSO OO	Wire	-	-
2017-050	2457991.75	2017 Aug 26 0604	Minotaur IV	2	6	0.119	OATKC	OS	-	CG/G	Sat LEO OO	Wire	-	-
2017-068	2458058.40	2017 Oct 31 2137	Minotaur-C 3210	-	T10 (XL)	0.715	OATKC	OS	-	CG/C	Sat SSO O 1	Wire	-	-
2019-A96	2458666.96	2019 Jul 2 1100	ATB	-	1	0.000	LARCN	TS	-	-	Test	spacenews.com	-	-
2020-046	2459046.07	2020 Jul 15 1346:00	Minotaur IV	-	7	1.000	NGIS	OS	-	CG/G	Sat LEO O	Wire	-	-
2025-077	2460782.31	2025 Apr 16 1933	Minotaur IV	-	8	0.500	NGIS	OS	-	CG/G	Sat LEO O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-S228	2442981.50	1976 Jul 22	Malemute	-	Sandia 497-006	-	-	-	-	TTR	UL3	-	-	146	-	-
1976-A83	2442983.50	1976 Jul 24	Malemute	-	Sandia 497-007	-	-	-	-	TTR	UL3	-	-	17	-	-
1979-S127	2443982.50	1979 Apr 19	Malemute	-	Sandia 497-009	Malemute II	-	-	-	TTR	-	-	-	165	-	-
1999-S42	2451360.62	1999 Jul 1 0300	Malemute	-	TMBD Target	Malemute II Slugger	-	-	-	KAU	-	-	-	120	-	-
2008-A07	2454727.08	2008 Sep 17 1355	PAAT	?	TBM Target	Japan PAC-3 target	-	-	-	WS	-	-	-	40?	-	-
2013-A16	2456519.50	2013 Aug 15	PAAT	?	PAAT?	PAC-3 Target	-	-	-	WS	?	-	-	40?	-	-
2016-S41	2457569.91	2016 Jun 30 0943:18	Improved Malemute	-	MaxiDusty 1	ASC MaxiDusty 1	-	-	-	AND	U3	-	-	115	-	-
2016-S50	2457578.04	2016 Jul 8 1301:00	Improved Malemute	-	MaxiDusty 1b	ASC MaxiDusty 1b	-	-	-	AND	U3	-	-	117	-	-
2020-S52	2458881.50	2020 Feb 2	Improved Malemute	-	SPIDER 2	-	-	-	-	ESR	-	-	-	120?	-	-
2021-S27	2459358.73	2021 May 24 0535:00	IM/IM	-	MAPHEUS 11	DLR MAPHEUS 11	-	-	-	ESR	S	-	-	216	-	-
2021-S56	2459438.50	2021 Aug 12	Improved Malemute	-	ET-2	Economical Target 2	-	-	-	WS	-	-	-	100?	-	-
2021-S78	2459488.50	2021 Oct 1?	Improved Malemute	?	-	PMWE	-	-	-	AND	-	-	-	90?	-	-
2021-S79	2459489.50	2021 Oct 2?	Improved Malemute	?	-	PMWE	-	-	-	AND	-	-	-	90?	-	-
2021-S88	2459554.84	2021 Dec 6 0807:00	IM/IM	-	MAPHEUS 10	DLR MAPHEUS 10	-	-	-	ESR	S	-	-	250	-	-
2022-S12	2459608.79	2022 Jan 29 0700	IM/IM	-	MAPHEUS 9	DLR MAPHEUS 9	-	-	-	ESR	S	-	-	254	-	-
2022-S105	2459873.81	2022 Oct 21 0725:00	IM/IM	-	MAPHEUS 12	DLR MAPHEUS 12	-	-	-	ESR	S	-	-	254	-	-
2023-S10	2460027.27	2023 Mar 23 1823	IM/IO	-	BROR	BROR	-	-	-	ESR	S	-	-	240	-	-
2023-S28	2460086.71	2023 May 22 0500:32	IM/IM	-	MAPHEUS 13	DLR MAPHEUS 13	-	-	-	ESR	S	-	-	225	-	-
2025-S05	2460700.23	2025 Jan 24 1735	Improved Malemute	-	HCD 1	ORIGIN 1	-	-	-	ESR	LC3	-	-	100?	-	-
2025-S31	2460861.75	2025 Jul 5 0600	Improved Malemute	-	MaxiDusty 2	ASC MaxiDusty 2	MXD2	-	-	AND	U3	-	-	125	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-S228	2442981.50	1976 Jul 22	Malemute	-	Sandia 497-006	0.000	SAND	SS	-	SAND/Millard	Test	SRctCon6	CR-157116	-
1976-A83	2442983.50	1976 Jul 24	Malemute	-	Sandia 497-007	0.000	SAND	SF	U	SAND/Millard	Test	SRctCon6	-	-
1979-S127	2443982.50	1979 Apr 19	Malemute	-	Sandia 497-009	0.000	SAND	SS	-	SAND/	Test	SRctCon6	-	-
1999-S42	2451360.62	1999 Jul 1 0300	Malemute	-	TMBD Target	0.000	SAND/USNTB	SS	-	USNTB/	Target	SandiaASER99	Wire	-
2008-A07	2454727.08	2008 Sep 17 1355	PAAT	?	TBM Target	0.000	MDA	MS	-	-	Target	Wire	-	-
2013-A16	2456519.50	2013 Aug 15	PAAT	?	PAAT?	0.000	MDA	MS	-	-	Target	lockheedmartin.com	-	-
2016-S41	2457569.91	2016 Jun 30 0943:18	Improved Malemute	-	MaxiDusty 1	0.000	DLR/ARRS	SS	-	ARRS/TROM/Havnes	Aeron	andoyaspace.no	-	-
2016-S50	2457578.04	2016 Jul 8 1301:00	Improved Malemute	-	MaxiDusty 1b	0.000	DLR/ARRS	SS	-	ARRS/TROM/Havnes	Aeron	andoyaspace.no	-	-
2020-S52	2458881.50	2020 Feb 2	Improved Malemute	-	SPIDER 2	0.000	DLR	SS	-	DLR/	Aeron	sscspace.com	-	-
2021-S27	2459358.73	2021 May 24 0535:00	IM/IM	-	MAPHEUS 11	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2021-S56	2459438.50	2021 Aug 12	Improved Malemute	-	ET-2	0.000	SMDC	SS	-	SMDC/	Test	army.mil	-	-
2021-S78	2459488.50	2021 Oct 1?	Improved Malemute	?	-	0.000	ARRS	SS	-	ARRS/	Test	nasaspaceflight.com	-	-
2021-S79	2459489.50	2021 Oct 2?	Improved Malemute	?	-	0.000	ARRS	SS	-	ARRS/	Test	nasaspaceflight.com	-	-
2021-S88	2459554.84	2021 Dec 6 0807:00	IM/IM	-	MAPHEUS 10	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2022-S12	2459608.79	2022 Jan 29 0700	IM/IM	-	MAPHEUS 9	0.000	DLR	SS	-	DLR/	Micrograv	sscspace.com	-	-
2022-S105	2459873.81	2022 Oct 21 0725:00	IM/IM	-	MAPHEUS 12	0.000	DLR	SS	-	DLR/	Micrograv	sscspace.com	-	-
2023-S10	2460027.27	2023 Mar 23 1823	IM/IO	-	BROR	0.000	SNSB	SS	-	SNSB/IRF/DLR/	Auroral	sscspace.com	-	-
2023-S28	2460086.71	2023 May 22 0500:32	IM/IM	-	MAPHEUS 13	0.000	DLR	SS	-	DLR/	Micrograv	sscspace.com	-	-
2025-S05	2460700.23	2025 Jan 24 1735	Improved Malemute	-	HCD 1	0.000	SNSB?	SU	-	STO/KTH/	Aeron	linkedin.com	-	-
2025-S31	2460861.75	2025 Jul 5 0600	Improved Malemute	-	MaxiDusty 2	0.000	DLR/ARRS	SS	-	ARRS/TROM	Aeron	andoyaspace.no	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1948-A44	2432885.50	1948 Dec	Matador	-	-	-	-	-	-	HADC	ZEL	-	-	12?	-	-
1951-A31	2433818.15	1951 Jun 20 1543	Matador	-	GM-544	-	-	-	-	CC	LA	-	-	12?	-	-
1951-A38	2433826.50	1951 Jun 29	Matador	-	GM-545	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A45	2433845.50	1951 Jul 18	Matador	-	GM-546	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A53	2433868.50	1951 Aug 10	Matador	-	GM-548	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A58	2433889.50	1951 Aug 31	Matador	-	GM-549	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A60	2433895.50	1951 Sep 6	Matador	-	GM-550	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A78	2433945.50	1951 Oct 26	Matador	-	GM-551	-	-	-	-	CC	LA?	-	-	12?	-	-
1951-A91	2433987.50	1951 Dec 7	Matador	-	GM-547	First all military	-	-	-	CC	LA?	-	-	12?	-	-
1951-A95	2433993.50	1951 Dec 13	Matador	-	GM-552	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A06	2434026.50	1952 Jan 15	Matador	-	GM-554	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A30	2434055.50	1952 Feb 13	Matador	-	GM-555	-	-	-	-	CC	LA?	-	-	12	-	-
1952-A42	2434081.50	1952 Mar 10	Matador	-	GM-556	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A49	2434091.50	1952 Mar 20	Matador	-	GM-558	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A63	2434106.50	1952 Apr 4	Matador	-	GM-561	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A64	2434111.50	1952 Apr 9	Matador	-	GM-559	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A72	2434134.50	1952 May 2	Matador	-	GM-560	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A75	2434147.50	1952 May 15	Matador	-	GM-563	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A87	2434154.50	1952 May 22	Matador	-	GM-562	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A110	2434202.50	1952 Jul 9	Matador	-	GM-565	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A115	2434212.50	1952 Jul 19	Matador	-	GM-566	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A152	2434265.50	1952 Sep 10	Matador	-	GM-568	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A156	2434271.50	1952 Sep 16	Matador	-	GM-569	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A180	2434294.50	1952 Oct 9	Matador	-	GM-570	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A204	2434320.50	1952 Nov 4	Matador	-	GM-2353	New tail config	-	-	-	CC	LA?	-	-	12?	-	-
1952-A212	2434323.50	1952 Nov 7	Matador	-	GM-567	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A225	2434333.50	1952 Nov 17	Matador	-	GM-2354	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A226	2434333.50	1952 Nov 17	Matador	-	GM-11042	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A255	2434350.50	1952 Dec 4	Matador	-	GM-553	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A269	2434361.50	1952 Dec 15	Matador	-	GM-2356	-	-	-	-	CC	LA?	-	-	12?	-	-
1952-A279	2434365.50	1952 Dec 19	Matador	-	GM-11043	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A11	2434389.50	1953 Jan 12	Matador	-	GM-557	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A17	2434391.50	1953 Jan 14	Matador	-	GM-11046	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A41	2434407.50	1953 Jan 30	Matador	-	GM-11050	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A44	2434413.50	1953 Feb 5	Matador	-	GM-2357	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A64	2434425.50	1953 Feb 17	Matador	-	GM-11048	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A93	2434440.50	1953 Mar 4	Matador	-	GM-2358	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A124	2434454.50	1953 Mar 18	Matador	-	GM-11062	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A151	2434467.50	1953 Mar 31	Matador	-	GM-11045	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A155	2434468.50	1953 Apr 1	Matador	-	GM-11044	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A187	2434491.50	1953 Apr 24	Matador	-	GM-11049	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A192	2434496.50	1953 Apr 29	Matador	-	GM-2369	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A200	2434501.50	1953 May 4	Matador	-	GM-11053	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A244	2434540.50	1953 Jun 12	Matador	-	GM-11056	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A280	2434560.50	1953 Jul 2	Matador	-	GM-11059	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A284	2434567.50	1953 Jul 9	Matador	-	GM-11057	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A312	2434593.50	1953 Aug 4	Matador	-	GM-11081	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A335	2434613.50	1953 Aug 24	Matador	-	GM-11083	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A367	2434643.50	1953 Sep 23	Matador	-	GM-11082	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A410	2434671.50	1953 Oct 21	Matador	-	GM-2368	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A412	2434672.50	1953 Oct 22	Matador	-	GM-11072	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A423	2434683.50	1953 Nov 2	Matador	-	GM-11097	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A444	2434698.50	1953 Nov 17	Matador	-	GM-11100	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A445	2434699.50	1953 Nov 18	Matador	-	GM-11107	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A446	2434699.50	1953 Nov 18	Matador	-	GM-11104	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A448	2434700.50	1953 Nov 19	Matador	-	GM-11098	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A449	2434700.50	1953 Nov 19	Matador	-	GM-2359	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A465	2434708.50	1953 Nov 27	Matador	-	GM-11101	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A467	2434713.50	1953 Dec 2	Matador	-	GM-11099	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A476	2434722.50	1953 Dec 11	Matador	-	GM-11080	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A478	2434726.50	1953 Dec 15	Matador	-	GM-11105	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A479	2434726.50	1953 Dec 15	Matador	-	GM-11106	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A480	2434726.50	1953 Dec 15	Matador	-	GM-11110	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A481	2434726.50	1953 Dec 15	Matador	-	GM-12418	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A484	2434727.50	1953 Dec 16	Matador	-	GM-12419	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A485	2434727.50	1953 Dec 16	Matador	-	GM-11103	-	-	-	-	CC	LA?	-	-	12?	-	-
1953-A489	2434728.50	1953 Dec 17	Matador	-	GM-11102	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A06	2434749.50	1954 Jan 7	Matador	-	GM-12427	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A08	2434750.50	1954 Jan 8	Matador	-	GM-12421	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A09	2434750.50	1954 Jan 8	Matador	-	GM-12420	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A10	2434750.50	1954 Jan 8	Matador	-	GM-11109	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A30	2434763.50	1954 Jan 21	Matador	-	GM-12422	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A36	2434771.50	1954 Jan 29	Matador	-	GM-12423	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A43	2434777.50	1954 Feb 4	Matador	-	GM-12425	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A69	2434792.50	1954 Feb 19	Matador	-	GM-12424	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A80	2434798.50	1954 Feb 25	Matador	-	GM-12447	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A99	2434806.50	1954 Mar 5	Matador	-	GM-2360	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A100	2434806.50	1954 Mar 5	Matador	-	GM-12437	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A121	2434824.50	1954 Mar 23	Matador	-	GM-12445	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A122	2434824.50	1954 Mar 23	Matador	-	GM-12444	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A129	2434827.50	1954 Mar 26	Matador	-	GM-12446	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A134	2434831.50	1954 Mar 30	Matador	-	GM-12436	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A135	2434831.50	1954 Mar 30	Matador	-	GM-12432	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A156	2434841.50	1954 Apr 9	Matador	-	GM-12468	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A157	2434841.50	1954 Apr 9	Matador	-	GM-12429	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A158	2434841.50	1954 Apr 9	Matador	-	GM-12436	-	-	-	-	CC	LA?	-	-	12?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A159	2434841.50	1954 Apr 9	Matador	-	GM-12426	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A160	2434841.50	1954 Apr 9	Matador	-	GM-12452	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A166	2434845.50	1954 Apr 13	Matador	-	GM-12453	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A167	2434845.50	1954 Apr 13	Matador	-	GM-12439	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A174	2434847.50	1954 Apr 15	Matador	-	GM-12428	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A189	2434855.50	1954 Apr 23	Matador	-	GM-12470	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A190	2434855.50	1954 Apr 23	Matador	-	GM-12469	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A191	2434855.50	1954 Apr 23	Matador	-	GM-12462	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A192	2434855.50	1954 Apr 23	Matador	-	GM-12479	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A200	2434859.50	1954 Apr 27	Matador	-	GM-12440	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A222	2434862.50	1954 Apr 30	Matador	-	GM-12477	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A223	2434862.50	1954 Apr 30	Matador	-	GM-12476	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A224	2434862.50	1954 Apr 30	Matador	-	GM-12482	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A225	2434862.50	1954 Apr 30	Matador	-	GM-12480	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A272	2434876.50	1954 May 14	Matador	-	GM-12481	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A273	2434876.50	1954 May 14	Matador	-	GM-12478	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A274	2434876.50	1954 May 14	Matador	-	GM-12487	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A282	2434880.50	1954 May 18	Matador	-	GM-12441	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A284	2434881.50	1954 May 19	Matador	-	GM-12473	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A285	2434881.50	1954 May 19	Matador	-	GM-12484	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A289	2434882.50	1954 May 20	Matador	-	GM-12458	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A316	2434896.50	1954 Jun 3	Matador	-	GM-12472	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A320	2434897.50	1954 Jun 4	Matador	-	GM-12454	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A321	2434897.50	1954 Jun 4	Matador	-	GM-12471	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A332	2434902.50	1954 Jun 9	Matador	-	GM-12431	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A340	2434903.50	1954 Jun 10	Matador	-	GM-12460	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A341	2434903.50	1954 Jun 10	Matador	-	GM-12489	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A361	2434911.50	1954 Jun 18	Matador	-	GM-52-1824	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A374	2434917.50	1954 Jun 24	Matador	-	GM-52-1826	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A383	2434922.50	1954 Jun 29	Matador	-	GM-12442	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A388	2434923.50	1954 Jun 30	Matador	-	GM-12435	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A395	2434930.50	1954 Jul 7	Matador	-	GM-11067	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A422	2434943.50	1954 Jul 20	Matador	-	GM-12459	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A430	2434945.50	1954 Jul 22	Matador	-	GM-11070	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A512	2434995.50	1954 Sep 10	Matador	-	GM-11074	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A550	2435014.50	1954 Sep 29	Matador	-	GM-12443	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A582	2435035.50	1954 Oct 20	Matador	-	GM-12467	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A583	2435035.50	1954 Oct 20	Matador	-	GM-12455	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A584	2435035.50	1954 Oct 20	Matador	-	GM-12456	-	-	-	-	CC	LA?	-	-	12?	-	-
1954-A708	2435092.50	1954 Dec 16	Matador	-	GM-12430	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A18	2435121.50	1955 Jan 14	Matador	-	GM-12434	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A22	2435125.50	1955 Jan 18	Matador	-	GM-52-1849	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A23	2435125.50	1955 Jan 18	Matador	-	GM-52-1865	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A101	2435154.50	1955 Feb 16	Matador	-	GM-12450	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A115	2435159.50	1955 Feb 21	Matador	-	GM-12486	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A133	2435162.50	1955 Feb 24	Matador	-	GM-12449	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A142	2435168.50	1955 Mar 2	Matador	-	GM-12461	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A143	2435168.50	1955 Mar 2	Matador	-	GM-12448	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A162	2435175.50	1955 Mar 9	Matador	-	GM-52-1889	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A192	2435183.50	1955 Mar 17	Matador	-	GM-12483	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A193	2435183.50	1955 Mar 17	Matador	-	GM-12451	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A238	2435198.50	1955 Apr 1	Matador	-	GM-52-1900	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A300	2435217.50	1955 Apr 20	Matador	-	GM-11075	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A305	2435218.50	1955 Apr 21	Matador	-	GM-53-92	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A320	2435225.50	1955 Apr 28	Matador	-	GM-53-205	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A326	2435226.50	1955 Apr 29	Matador	-	Dummy #2	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A340	2435233.50	1955 May 6	Matador	-	GM-52-1895	-	-	-	-	CC	LC4	-	-	12?	-	-
1955-A351	2435237.50	1955 May 10	Matador	-	GM-53-203	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A365	2435244.50	1955 May 17	Matador	-	GM-52-1902	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A370	2435246.50	1955 May 19	Matador	-	GM-53-98	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A405	2435259.50	1955 Jun 1	Matador	-	GM-12463	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A406	2435259.50	1955 Jun 1	Matador	-	GM-52-1857	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A428	2435267.50	1955 Jun 9	Matador	-	GM-54-1	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A433	2435268.50	1955 Jun 10	Matador	-	GM-54-3	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A434	2435268.50	1955 Jun 10	Matador	-	GM-54-2	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A454	2435296.50	1955 Jul 8	Matador	-	GM-54-8	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A455	2435296.50	1955 Jul 8	Matador	-	GM-54-5	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A458	2435306.50	1955 Jul 18	Matador	-	GM-54-6	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A459	2435306.50	1955 Jul 18	Matador	-	GM-54-7	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A460	2435310.50	1955 Jul 22	Matador	-	GM-54-4	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A462	2435317.50	1955 Jul 29	Matador	-	GM-54-9	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A463	2435317.50	1955 Jul 29	Matador	-	GM-54-10	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A565	2435345.50	1955 Aug 26	Matador	-	5	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A470	2435351.50	1955 Sep 1	Matador	-	GM-11089	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A567	2435372.50	1955 Sep 22	Matador	-	214	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A568	2435386.50	1955 Oct 6	Matador	-	215	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A569	2435392.50	1955 Oct 12	Matador	-	3090	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A487	2435407.50	1955 Oct 27	Matador	-	GM-11051	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A570	2435418.50	1955 Nov 7	Matador	-	2	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A488	2435421.50	1955 Nov 10	Matador	-	GM-11055	-	-	-	-	CC	LA?	-	-	12?	-	-
1955-A571	2435442.50	1955 Dec 1	Matador	-	54-3092	-	-	-	-	HADC	-	-	-	12?	-	-
1955-A572	2435448.50	1955 Dec 7	Matador	-	53-189	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A219	2435477.50	1956 Jan 5	Matador	-	5	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A220	2435484.50	1956 Jan 12	Matador	-	RTV 9	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A04	2435491.50	1956 Jan 19	Matador	-	GM-54-17	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A06	2435497.50	1956 Jan 25	Matador	-	GM-54-18	-	-	-	-	CC	LA?	-	-	12?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A221	2435498.50	1956 Jan 26	Matador	-	54-3095	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A08	2435499.50	1956 Jan 27	Matador	-	GM-54-16	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A13	2435509.50	1956 Feb 6	Matador	-	GM-54-12	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A14	2435509.50	1956 Feb 6	Matador	-	GM-54-11	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A222	2435513.50	1956 Feb 10	Matador	-	GM-53-190	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A224	2435533.50	1956 Mar 1	Matador	-	53192	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A225	2435547.50	1956 Mar 15	Matador	-	6	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A34	2435555.50	1956 Mar 23	Matador	-	GM-54-22	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A35	2435555.50	1956 Mar 23	Matador	-	GM-54-26	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A36	2435558.50	1956 Mar 26	Matador	-	GM-54-31	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A37	2435558.50	1956 Mar 26	Matador	-	GM-54-19	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A38	2435558.50	1956 Mar 26	Matador	-	GM-54-35	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A39	2435560.50	1956 Mar 28	Matador	-	GM-54-21	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A40	2435560.50	1956 Mar 28	Matador	-	GM-54-30	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A41	2435560.50	1956 Mar 28	Matador	-	GM-54-25	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A42	2435560.50	1956 Mar 28	Matador	-	GM-54-36	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A226	2435561.50	1956 Mar 29	Matador	-	54-3098	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A43	2435567.50	1956 Apr 4	Matador	-	GM-54-28	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A44	2435569.50	1956 Apr 6	Matador	-	GM-54-34	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A45	2435569.50	1956 Apr 6	Matador	-	GM-54-23	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A227	2435579.50	1956 Apr 16	Matador	-	221	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A228	2435588.50	1956 Apr 25	Matador	-	GM 53-195	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A51	2435595.50	1956 May 2	Matador	-	GM-11065	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A229	2435607.50	1956 May 14	Matador	-	M-208	RTV	-	-	-	HADC	-	-	-	12?	-	-
1956-A55	2435614.38	1956 May 20 2100	Matador	-	GM-11091	-	-	-	-	CC	PAFB/800	-	-	12?	-	-
1956-A230	2435617.50	1956 May 24	Matador	-	543099	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A231	2435618.50	1956 May 25	Matador	-	53-191	RTV	-	-	-	HADC	-	-	-	12?	-	-
1956-A232	2435635.50	1956 Jun 11	Matador	-	GM 53-194	RTV	-	-	-	HADC	-	-	-	12?	-	-
1956-A81	2435714.50	1956 Aug 29	Matador	-	GM-55-528	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A82	2435715.50	1956 Aug 30	Matador	-	GM-55-529	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A85	2435728.50	1956 Sep 12	Matador	-	GM-55-527	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A86	2435728.50	1956 Sep 12	Matador	-	GM-54-132	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A88	2435736.50	1956 Sep 20	Matador	-	GM-54-13	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A91	2435742.50	1956 Sep 26	Matador	-	GM-54-133	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A92	2435742.50	1956 Sep 26	Matador	-	GM-54-230	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A233	2435749.50	1956 Oct 3	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A99	2435750.50	1956 Oct 4	Matador	-	GM-54-14	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A103	2435758.50	1956 Oct 12	Matador	-	GM-54-15	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A234	2435778.50	1956 Nov 1	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A110	2435786.50	1956 Nov 9	Matador	-	GM-54-127	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A235	2435791.50	1956 Nov 14	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1956-A112	2435798.50	1956 Nov 21	Matador	-	GM-54-128	-	-	-	-	CC	LA?	-	-	12?	-	-
1956-A115	2435808.15	1956 Nov 30 1530	Matador	-	GM-54-129	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A177	2435891.22	1957 Feb 21 1712	Matador	-	2096	Mace?	-	-	-	HADC	-	-	-	12?	-	-
1957-A23	2435938.50	1957 Apr 10	Matador	-	-	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A24	2435939.50	1957 Apr 11	Matador	-	-	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A39	2435974.50	1957 May 16	Matador	-	-	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A40	2435975.50	1957 May 17	Matador	-	-	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A88	2436079.50	1957 Aug 29	Matador	-	GM-54-137	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A93	2436084.50	1957 Sep 3	Matador	-	GM-54-20	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A94	2436086.50	1957 Sep 5	Matador	-	GM-54-139	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A95	2436086.50	1957 Sep 5	Matador	-	GM-54-32	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A104	2436106.50	1957 Sep 25	Matador	-	GM-54-177	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A178	2436106.50	1957 Sep 25	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1957-A108	2436107.50	1957 Sep 26	Matador	-	GM-54-27	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A113	2436112.50	1957 Oct 1	Matador	-	GM-54-140	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A114	2436112.50	1957 Oct 1	Matador	-	GM-54-38	-	-	-	-	CC	LA?	-	-	12?	-	-
1957-A130	2436156.50	1957 Nov 14	Matador	-	GM-54-138	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A223	2436240.50	1958 Feb 6	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	Wendover
1958-A221	2436252.50	1958 Feb 18	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A222	2436263.27	1958 Feb 28 1830	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A15	2436275.50	1958 Mar 13	Matador	-	GM-56-1963	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A16	2436275.50	1958 Mar 13	Matador	-	GM-54-24	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A17	2436275.50	1958 Mar 13	Matador	-	GM-54-142	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A18	2436275.50	1958 Mar 13	Matador	-	GM-56-1962	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A219	2436331.50	1958 May 8	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A220	2436365.22	1958 Jun 10 1720	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A142	2436520.18	1958 Nov 12 1615	Matador	-	Training #1	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A143	2436520.50	1958 Nov 13	Matador	-	Training #2	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A224	2436525.23	1958 Nov 17 1730	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A225	2436525.42	1958 Nov 17 2200?	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1958-A157	2436539.50	1958 Dec 2	Matador	-	Training #3	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A158	2436540.50	1958 Dec 3	Matador	-	Training #4	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A159	2436541.50	1958 Dec 4	Matador	-	Training #5	-	-	-	-	CC	LA?	-	-	12?	-	-
1958-A160	2436541.50	1958 Dec 4	Matador	-	Training #6	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A09	2436576.13	1959 Jan 7 1503	Matador	-	Training #7	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A10	2436576.50	1959 Jan 8	Matador	-	Training #8	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A276	2436593.50	1959 Jan 25	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	Wendover
1959-A269	2436598.50	1959 Jan 30	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	Wendover
1959-A270	2436609.50	1959 Feb 10	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1959-A32	2436624.50	1959 Feb 25	Matador	-	Training #9	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A33	2436624.50	1959 Feb 25	Matador	-	Training #10	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A34	2436624.50	1959 Feb 25	Matador	-	Training #11	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A35	2436625.50	1959 Feb 26	Matador	-	Training #12	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A271	2436653.50	1959 Mar 26	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1959-A272	2436675.50	1959 Apr 17	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A65	2436680.50	1959 Apr 22	Matador	-	Training #13	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A66	2436680.50	1959 Apr 22	Matador	-	Training #14	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A67	2436681.50	1959 Apr 23	Matador	-	Training #15	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A68	2436681.50	1959 Apr 23	Matador	-	Training #16	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A273	2436700.50	1959 May 12	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1959-A95	2436729.50	1959 Jun 10	Matador	-	Training #17	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A96	2436729.50	1959 Jun 10	Matador	-	Training #18	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A97	2436730.50	1959 Jun 11	Matador	-	Training #19	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A98	2436730.50	1959 Jun 11	Matador	-	Training #20	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A274	2436744.50	1959 Jun 25	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	Wendover
1959-A142	2436805.50	1959 Aug 25	Matador	-	GM-54-46	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A143	2436805.50	1959 Aug 25	Matador	-	GM-54-47	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A275	2436814.50	1959 Sep 3	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1959-A162	2436833.50	1959 Sep 22	Matador	-	GM-54-48	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A163	2436833.50	1959 Sep 22	Matador	-	GM-54-43	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A181	2436868.50	1959 Oct 27	Matador	-	GM-54-45	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A182	2436868.50	1959 Oct 27	Matador	-	GM-54-49	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A185	2436870.50	1959 Oct 29	Mace	-	56-2884	-	-	-	-	CC	LC22	-	-	12?	-	-
1959-A190	2436882.50	1959 Nov 10	Matador	-	GM-54-52	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A193	2436896.50	1959 Nov 24	Matador	-	GM-54-50	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A194	2436896.50	1959 Nov 24	Matador	-	GM-54-51	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A195	2436896.50	1959 Nov 24	Matador	-	GM-54-44	-	-	-	-	CC	LA?	-	-	12?	-	-
1959-A201	2436907.44	1959 Dec 4 2227	Mace	-	56-2893	-	-	-	-	CC	LC22	-	-	12?	-	-
1959-A202	2436911.50	1959 Dec 9	Matador	-	GM-54-53	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A15	2436946.50	1960 Jan 13	Matador	-	GM-54-54	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A16	2436946.50	1960 Jan 13	Matador	-	GM-54-55	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A373	2436970.21	1960 Feb 5 1700	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1960-A39	2436974.50	1960 Feb 10	Matador	-	GM-54-56	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A41	2436976.37	1960 Feb 11 2049	Mace	-	57-2445	-	-	-	-	CC	LC22	-	-	12?	-	-
1960-A64	2437002.50	1960 Mar 9	Matador	-	GM-54-58	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A88	2437025.35	1960 Mar 31 2025?	Mace	-	57-2452	-	-	-	-	CC	LC22	-	-	12?	-	-
1960-A95	2437037.50	1960 Apr 13	Matador	-	GM-54-57	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A96	2437037.50	1960 Apr 13	Matador	-	GM-56-1925	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A103	2437051.50	1960 Apr 27	Mace	-	58-1408	-	-	-	-	CC	LC22	-	-	12?	-	-
1960-A374	2437065.50	1960 May 11	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1960-A119	2437066.50	1960 May 12	Matador	-	GM-54-62	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A120	2437066.50	1960 May 12	Matador	-	GM-54-60	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A381	2437068.50	1960 May 14	Matador	-	-	-	-	-	-	HADC	-	-	-	12?	-	Belen
1960-A125	2437078.50	1960 May 24	Matador	-	GM-56-1928	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A126	2437078.50	1960 May 24	Matador	-	GM-54-67	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A375	2437080.50	1960 May 26	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1960-A140	2437088.50	1960 Jun 3	Mace	-	58-1391	-	-	-	-	CC	LC22	-	-	12?	-	-
1960-A142	2437093.50	1960 Jun 8	Matador	-	GM-56-1927	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A143	2437093.50	1960 Jun 8	Matador	-	GM-55-427	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A144	2437093.50	1960 Jun 8	Matador	-	GM-54-63	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A146	2437094.50	1960 Jun 9	Matador	-	GM-55-426	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A147	2437095.50	1960 Jun 10	Matador	-	GM-54-124	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A148	2437095.50	1960 Jun 10	Matador	-	GM-54-125	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A149	2437098.50	1960 Jun 13	Matador	-	GM-54-61	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A150	2437098.50	1960 Jun 13	Matador	-	GM-56-1918	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A151	2437100.50	1960 Jun 15	Matador	-	GM-56-1919	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A154	2437109.50	1960 Jun 24	Mace	-	56-2898	-	-	-	-	CC	LC22	-	-	12?	-	-
1960-A155	2437113.50	1960 Jun 28	Matador	-	GM-56-1914	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A156	2437113.50	1960 Jun 28	Matador	-	GM-56-1915	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A164	2437126.50	1960 Jul 11	Mace	-	58-1417 (20)	-	-	-	-	CC	LC21	-	-	12?	-	-
1960-A166	2437128.50	1960 Jul 13	Matador	-	GM-54-88	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A167	2437129.50	1960 Jul 14	Matador	-	GM-54-65	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A195	2437156.50	1960 Aug 10	Matador	-	GM-54-90	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A207	2437169.50	1960 Aug 23	Matador	-	GM-54-64	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A208	2437169.50	1960 Aug 23	Matador	-	GM-54-66	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A216	2437184.50	1960 Sep 7	Matador	-	GM-56-1929	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A224	2437198.50	1960 Sep 21	Mace	-	58-1226 (21)	-	-	-	-	CC	LC21	-	-	12?	-	-
1960-A231	2437205.50	1960 Sep 28	Matador	-	GM-56-1937	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A232	2437205.50	1960 Sep 28	Matador	-	GM-56-1932	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A239	2437215.40	1960 Oct 7 2131	Mace	-	58-1427 (22)	-	-	-	-	CC	LC21	-	-	12?	-	-
1960-A242	2437219.50	1960 Oct 12	Matador	-	GM-56-1940	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A248	2437229.34	1960 Oct 21 2006	Mace	-	59-4976 (23)	-	-	-	-	CC	LC21	-	-	12?	-	-
1960-A382	2437232.50	1960 Oct 25	Mace	-	58-1400	Mace-A	-	-	-	HADC	-	-	-	12?	-	-
1960-A251	2437233.50	1960 Oct 26	Matador	-	GM-56-1935	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A252	2437233.50	1960 Oct 26	Matador	-	GM-56-1939	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A255	2437240.50	1960 Nov 2	Matador	-	GM-55-40	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A259	2437247.50	1960 Nov 9	Matador	-	GM-56-1938	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A262	2437253.50	1960 Nov 15	Mace	-	59-4980 (27)	-	-	-	-	CC	LC21	-	-	12?	-	-
1960-A292	2437275.50	1960 Dec 7	Matador	-	GM-56-1930	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A293	2437275.50	1960 Dec 7	Matador	-	GM-54-89	-	-	-	-	CC	LA?	-	-	12?	-	-
1960-A303	2437285.58	1960 Dec 17 0200	Mace	-	56-2889 (8)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A24	2437317.50	1961 Jan 18	Matador	-	GM-56-1936	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A25	2437317.50	1961 Jan 18	Matador	-	GM-56-1943	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A46	2437338.50	1961 Feb 8	Matador	-	GM-56-1941	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A72	2437365.50	1961 Mar 7	Mace	-	59-4979 (26)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A74	2437366.50	1961 Mar 8	Matador	-	GM-56-1945	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A75	2437374.50	1961 Mar 16	Mace	-	59-4977 (24)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A83	2437387.30	1961 Mar 28 1906	Mace	-	59-4978 (25)	-	-	-	-	CC	LC21	-	-	0	-	-
1961-A101	2437402.50	1961 Apr 13	Matador	-	GM-56-1931	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A112	2437418.19	1961 Apr 28 1630	Mace	-	59-4874 (46)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A124	2437430.50	1961 May 11	Matador	-	GM-56-1942	-	-	-	-	CC	LA?	-	-	12?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A125	2437430.50	1961 May 11	Matador	-	GM-56-1946	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A141	2437452.04	1961 Jun 1 1300	Matador	-	GM-56-1949	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A142	2437452.17	1961 Jun 1 1600	Matador	-	GM-56-1948	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A143	2437452.30	1961 Jun 1 1915	Matador	-	GM-56-1947	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A144	2437452.42	1961 Jun 1 2201	Matador	-	GM-56-1944	-	-	-	-	CC	LA?	-	-	12?	-	-
1961-A145	2437452.50	1961 Jun 2	Mace	-	59-4876 (48)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A152	2437466.50	1961 Jun 16	Mace	-	59-4879 (51)	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A155	2437472.19	1961 Jun 21 1630	Mace	-	59-4883 (55)	Mace-B	-	-	-	CC	LC21	-	-	12?	-	-
1961-A169	2437498.50	1961 Jul 18	Mace	-	60-5397	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A185	2437516.28	1961 Aug 4 1840	Mace	-	60-5399	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A196	2437543.50	1961 Sep 1	Mace	-	60-5398	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A204	2437564.50	1961 Sep 22	Mace	-	60-5400	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A380	2437572.50	1961 Oct	Mace	-	-	-	-	-	-	HADC	-	-	-	12?	-	-
1961-A236	2437617.50	1961 Nov 14	Mace	-	60-5396	-	-	-	-	CC	LC21	-	-	12?	-	-
1961-A246	2437639.56	1961 Dec 6 0124	Mace	-	59-4887	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A06	2437676.50	1962 Jan 12	Mace	-	60-5401	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A07	2437677.30	1962 Jan 12 1908:02	Mace	-	60-5405	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A12	2437689.21	1962 Jan 24 1702:36	Mace	-	59-4885	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A13	2437691.08	1962 Jan 26 1402:04	Mace	-	59-2468	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A15	2437697.17	1962 Feb 1 1609	Mace	-	60-5403	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A19	2437704.25	1962 Feb 8 1800:01	Mace	-	60-5406	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A21	2437711.38	1962 Feb 15 2113:47	Mace	-	59-4886	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A22	2437717.35	1962 Feb 21 2023:34	Mace	-	59-4889	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A29	2437725.17	1962 Mar 1 1600:05	Mace	-	58-1425	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A31	2437726.17	1962 Mar 2 1600:00	Mace	-	59-4888	-	-	-	-	CC	LC21	-	-	12?	-	-
1962-A184	2437969.21	1962 Oct 31 1708:07	Mace	-	58-1443	-	-	-	-	CC	LC21/1	-	-	12?	-	-
1962-A192	2437977.54	1962 Nov 9 0058:01	Mace	-	59-4891	-	-	-	-	CC	LC21/1	-	-	12?	-	-
1962-A211	2438003.41	1962 Dec 4 2147:37	Mace	-	59-4892	-	-	-	-	CC	LC21/2	-	-	12?	-	-
1962-A219	2438010.32	1962 Dec 11 1945:34	Mace	-	59-4890	-	-	-	-	CC	LC21/2	-	-	12?	-	-
1963-A87	2438186.17	1963 Jun 5 1610:00	Mace	-	58-1423	-	-	-	-	CC	LC21/1	-	-	12?	-	-
1963-A89	2438193.22	1963 Jun 12 1723:26	Mace	-	58-1435	-	-	-	-	CC	LC21/1	-	-	12?	-	-
1963-A96	2438209.10	1963 Jun 28 1420:40	Mace	-	59-2484	-	-	-	-	CC	LC21/2	-	-	12?	-	-
1963-A105	2438228.08	1963 Jul 17 1359:59	Mace	-	59-4981	-	-	-	-	CC	LC21	-	-	12?	-	-
1967-A166	2439495.12	1967 Jan 4 1500	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1967-A167	2439830.50	1967 Dec 6	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1969-A226	2440376.42	1969 Jun 3 2200	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1969-A227	2440460.27	1969 Aug 26 1827	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1969-A228	2440503.14	1969 Oct 8 1520	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1969-A229	2440552.23	1969 Nov 26 1730	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A180	2440683.20	1970 Apr 6 1642	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A181	2440719.15	1970 May 12 1530	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A182	2440815.50	1970 Aug 17	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A183	2440818.44	1970 Aug 19 2230	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A184	2440859.25	1970 Sep 29 1805	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A188	2440882.17	1970 Oct 22 1610	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A185	2440895.14	1970 Nov 4 1515	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A186	2440914.28	1970 Nov 23 1845	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1970-A187	2440922.32	1970 Dec 1 1938	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A216	2440970.21	1971 Jan 18 1700	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A217	2440988.27	1971 Feb 5 1835	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A220	2441016.28	1971 Mar 5 1845	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A218	2441204.34	1971 Sep 9 2005	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A219	2441209.28	1971 Sep 14 1840	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A221	2441239.27	1971 Oct 14 1835	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1971-A222	2441244.27	1971 Oct 19 1832	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1974-A78	2442063.50	1974 Jan 16	Mace	-	-	-	-	-	-	EGL	A-10	-	-	12?	-	-
1974-A79	2442167.25	1974 Apr 29 1759	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1974-A80	2442196.50	1974 May 29	Mace	-	-	-	-	-	-	EGL	-	-	-	12?	-	-
1974-A81	2442228.27	1974 Jun 29 1822	Mace	-	-	-	-	-	-	EGL	A-10	-	-	12?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1948-A44	2432885.50	1948 Dec	Matador	-	-	0.000	WADD	MS	-	-	Test	uxb.cso.uiuc.edu	-	-
1951-A31	2433818.15	1951 Jun 20 1543	Matador	-	GM-544	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1951-A38	2433826.50	1951 Jun 29	Matador	-	GM-545	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1951-A45	2433845.50	1951 Jul 18	Matador	-	GM-546	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1951-A53	2433868.50	1951 Aug 10	Matador	-	GM-548	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1951-A58	2433889.50	1951 Aug 31	Matador	-	GM-549	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1951-A60	2433895.50	1951 Sep 6	Matador	-	GM-550	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1951-A78	2433945.50	1951 Oct 26	Matador	-	GM-551	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1951-A91	2433987.50	1951 Dec 7	Matador	-	GM-547	0.000	6555GMS	MS	-	-	Test	MT60-2544	-	-
1951-A95	2433993.50	1951 Dec 13	Matador	-	GM-552	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A06	2434026.50	1952 Jan 15	Matador	-	GM-554	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A30	2434055.50	1952 Feb 13	Matador	-	GM-555	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A42	2434081.50	1952 Mar 10	Matador	-	GM-556	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A49	2434091.50	1952 Mar 20	Matador	-	GM-558	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A63	2434106.50	1952 Apr 4	Matador	-	GM-561	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A64	2434111.50	1952 Apr 9	Matador	-	GM-559	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A72	2434134.50	1952 May 2	Matador	-	GM-560	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A75	2434147.50	1952 May 15	Matador	-	GM-563	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1952-A87	2434154.50	1952 May 22	Matador	-	GM-562	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A110	2434202.50	1952 Jul 9	Matador	-	GM-565	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A115	2434212.50	1952 Jul 19	Matador	-	GM-566	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A152	2434265.50	1952 Sep 10	Matador	-	GM-568	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A156	2434271.50	1952 Sep 16	Matador	-	GM-569	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A180	2434294.50	1952 Oct 9	Matador	-	GM-570	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A204	2434320.50	1952 Nov 4	Matador	-	GM-2353	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A212	2434323.50	1952 Nov 7	Matador	-	GM-567	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A225	2434333.50	1952 Nov 17	Matador	-	GM-2354	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A226	2434333.50	1952 Nov 17	Matador	-	GM-11042	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A255	2434350.50	1952 Dec 4	Matador	-	GM-553	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A269	2434361.50	1952 Dec 15	Matador	-	GM-2356	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1952-A279	2434365.50	1952 Dec 19	Matador	-	GM-11043	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A11	2434389.50	1953 Jan 12	Matador	-	GM-557	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1953-A17	2434391.50	1953 Jan 14	Matador	-	GM-11046	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1953-A41	2434407.50	1953 Jan 30	Matador	-	GM-11050	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A44	2434413.50	1953 Feb 5	Matador	-	GM-2357	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A64	2434425.50	1953 Feb 17	Matador	-	GM-11048	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A93	2434440.50	1953 Mar 4	Matador	-	GM-2358	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A124	2434454.50	1953 Mar 18	Matador	-	GM-11062	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A151	2434467.50	1953 Mar 31	Matador	-	GM-11045	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A155	2434468.50	1953 Apr 1	Matador	-	GM-11044	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A187	2434491.50	1953 Apr 24	Matador	-	GM-11049	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A192	2434496.50	1953 Apr 29	Matador	-	GM-2369	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A200	2434501.50	1953 May 4	Matador	-	GM-11053	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A244	2434540.50	1953 Jun 12	Matador	-	GM-11056	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A280	2434560.50	1953 Jul 2	Matador	-	GM-11059	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A284	2434567.50	1953 Jul 9	Matador	-	GM-11057	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A312	2434593.50	1953 Aug 4	Matador	-	GM-11081	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A335	2434613.50	1953 Aug 24	Matador	-	GM-11083	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A367	2434643.50	1953 Sep 23	Matador	-	GM-11082	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A410	2434671.50	1953 Oct 21	Matador	-	GM-2368	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A412	2434672.50	1953 Oct 22	Matador	-	GM-11072	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A423	2434683.50	1953 Nov 2	Matador	-	GM-11097	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A444	2434698.50	1953 Nov 17	Matador	-	GM-11100	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A445	2434699.50	1953 Nov 18	Matador	-	GM-11107	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A446	2434699.50	1953 Nov 18	Matador	-	GM-11104	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A448	2434700.50	1953 Nov 19	Matador	-	GM-11098	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A449	2434700.50	1953 Nov 19	Matador	-	GM-2359	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A465	2434708.50	1953 Nov 27	Matador	-	GM-11101	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A467	2434713.50	1953 Dec 2	Matador	-	GM-11099	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A476	2434722.50	1953 Dec 11	Matador	-	GM-11080	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1953-A478	2434726.50	1953 Dec 15	Matador	-	GM-11105	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A479	2434726.50	1953 Dec 15	Matador	-	GM-11106	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A480	2434726.50	1953 Dec 15	Matador	-	GM-11110	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A481	2434726.50	1953 Dec 15	Matador	-	GM-12418	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A484	2434727.50	1953 Dec 16	Matador	-	GM-12419	0.000	1PBS	MS	-	-	Test	MT60-2544	-	-
1953-A485	2434727.50	1953 Dec 16	Matador	-	GM-11103	0.000	1PBS?	MS	-	-	Test	MT60-2544	-	-
1953-A489	2434728.50	1953 Dec 17	Matador	-	GM-11102	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A06	2434749.50	1954 Jan 7	Matador	-	GM-12427	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A08	2434750.50	1954 Jan 8	Matador	-	GM-12421	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A09	2434750.50	1954 Jan 8	Matador	-	GM-12420	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A10	2434750.50	1954 Jan 8	Matador	-	GM-11109	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A30	2434763.50	1954 Jan 21	Matador	-	GM-12422	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A36	2434771.50	1954 Jan 29	Matador	-	GM-12423	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A43	2434777.50	1954 Feb 4	Matador	-	GM-12425	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A69	2434792.50	1954 Feb 19	Matador	-	GM-12424	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A80	2434798.50	1954 Feb 25	Matador	-	GM-12447	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A99	2434806.50	1954 Mar 5	Matador	-	GM-2360	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A100	2434806.50	1954 Mar 5	Matador	-	GM-12437	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A121	2434824.50	1954 Mar 23	Matador	-	GM-12445	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A122	2434824.50	1954 Mar 23	Matador	-	GM-12444	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A129	2434827.50	1954 Mar 26	Matador	-	GM-12446	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A134	2434831.50	1954 Mar 30	Matador	-	GM-12436	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A135	2434831.50	1954 Mar 30	Matador	-	GM-12432	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A156	2434841.50	1954 Apr 9	Matador	-	GM-12468	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A157	2434841.50	1954 Apr 9	Matador	-	GM-12429	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A158	2434841.50	1954 Apr 9	Matador	-	GM-12436	0.000	WADD	MS	-	-	Test	MT60-2544	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A159	2434841.50	1954 Apr 9	Matador	-	GM-12426	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A160	2434841.50	1954 Apr 9	Matador	-	GM-12452	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A166	2434845.50	1954 Apr 13	Matador	-	GM-12453	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A167	2434845.50	1954 Apr 13	Matador	-	GM-12439	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A174	2434847.50	1954 Apr 15	Matador	-	GM-12428	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A189	2434855.50	1954 Apr 23	Matador	-	GM-12470	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A190	2434855.50	1954 Apr 23	Matador	-	GM-12469	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A191	2434855.50	1954 Apr 23	Matador	-	GM-12462	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A192	2434855.50	1954 Apr 23	Matador	-	GM-12479	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A200	2434859.50	1954 Apr 27	Matador	-	GM-12440	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A222	2434862.50	1954 Apr 30	Matador	-	GM-12477	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A223	2434862.50	1954 Apr 30	Matador	-	GM-12476	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A224	2434862.50	1954 Apr 30	Matador	-	GM-12482	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1954-A225	2434862.50	1954 Apr 30	Matador	-	GM-12480	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1954-A272	2434876.50	1954 May 14	Matador	-	GM-12481	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A273	2434876.50	1954 May 14	Matador	-	GM-12478	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A274	2434876.50	1954 May 14	Matador	-	GM-12487	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A282	2434880.50	1954 May 18	Matador	-	GM-12441	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A284	2434881.50	1954 May 19	Matador	-	GM-12473	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A285	2434881.50	1954 May 19	Matador	-	GM-12484	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A289	2434882.50	1954 May 20	Matador	-	GM-12458	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A316	2434896.50	1954 Jun 3	Matador	-	GM-12472	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1954-A320	2434897.50	1954 Jun 4	Matador	-	GM-12454	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A321	2434897.50	1954 Jun 4	Matador	-	GM-12471	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1954-A332	2434902.50	1954 Jun 9	Matador	-	GM-12431	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A340	2434903.50	1954 Jun 10	Matador	-	GM-12460	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A341	2434903.50	1954 Jun 10	Matador	-	GM-12489	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A361	2434911.50	1954 Jun 18	Matador	-	GM-52-1824	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A374	2434917.50	1954 Jun 24	Matador	-	GM-52-1826	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A383	2434922.50	1954 Jun 29	Matador	-	GM-12442	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A388	2434923.50	1954 Jun 30	Matador	-	GM-12435	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A395	2434930.50	1954 Jul 7	Matador	-	GM-11067	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A422	2434943.50	1954 Jul 20	Matador	-	GM-12459	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A430	2434945.50	1954 Jul 22	Matador	-	GM-11070	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A512	2434995.50	1954 Sep 10	Matador	-	GM-11074	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A550	2435014.50	1954 Sep 29	Matador	-	GM-12443	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A582	2435035.50	1954 Oct 20	Matador	-	GM-12467	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A583	2435035.50	1954 Oct 20	Matador	-	GM-12455	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A584	2435035.50	1954 Oct 20	Matador	-	GM-12456	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1954-A708	2435092.50	1954 Dec 16	Matador	-	GM-12430	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A18	2435121.50	1955 Jan 14	Matador	-	GM-12434	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A22	2435125.50	1955 Jan 18	Matador	-	GM-52-1849	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A23	2435125.50	1955 Jan 18	Matador	-	GM-52-1865	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A101	2435154.50	1955 Feb 16	Matador	-	GM-12450	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A115	2435159.50	1955 Feb 21	Matador	-	GM-12486	0.000	11TMS	MS	-	-	Test	MT60-2544	-	-
1955-A133	2435162.50	1955 Feb 24	Matador	-	GM-12449	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A142	2435168.50	1955 Mar 2	Matador	-	GM-12461	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A143	2435168.50	1955 Mar 2	Matador	-	GM-12448	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A162	2435175.50	1955 Mar 9	Matador	-	GM-52-1889	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A192	2435183.50	1955 Mar 17	Matador	-	GM-12483	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A193	2435183.50	1955 Mar 17	Matador	-	GM-12451	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A238	2435198.50	1955 Apr 1	Matador	-	GM-52-1900	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A300	2435217.50	1955 Apr 20	Matador	-	GM-11075	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A305	2435218.50	1955 Apr 21	Matador	-	GM-53-92	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A320	2435225.50	1955 Apr 28	Matador	-	GM-53-205	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A326	2435226.50	1955 Apr 29	Matador	-	Dummy #2	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A340	2435233.50	1955 May 6	Matador	-	GM-52-1895	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1955-A351	2435237.50	1955 May 10	Matador	-	GM-53-203	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A365	2435244.50	1955 May 17	Matador	-	GM-52-1902	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A370	2435246.50	1955 May 19	Matador	-	GM-53-98	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A405	2435259.50	1955 Jun 1	Matador	-	GM-12463	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A406	2435259.50	1955 Jun 1	Matador	-	GM-52-1857	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A428	2435267.50	1955 Jun 9	Matador	-	GM-54-1	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A433	2435268.50	1955 Jun 10	Matador	-	GM-54-3	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A434	2435268.50	1955 Jun 10	Matador	-	GM-54-2	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A454	2435296.50	1955 Jul 8	Matador	-	GM-54-8	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A455	2435296.50	1955 Jul 8	Matador	-	GM-54-5	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A458	2435306.50	1955 Jul 18	Matador	-	GM-54-6	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A459	2435306.50	1955 Jul 18	Matador	-	GM-54-7	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A460	2435310.50	1955 Jul 22	Matador	-	GM-54-4	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A462	2435317.50	1955 Jul 29	Matador	-	GM-54-9	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A463	2435317.50	1955 Jul 29	Matador	-	GM-54-10	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A565	2435345.50	1955 Aug 26	Matador	-	5	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A470	2435351.50	1955 Sep 1	Matador	-	GM-11089	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A567	2435372.50	1955 Sep 22	Matador	-	214	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A568	2435386.50	1955 Oct 6	Matador	-	215	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A569	2435392.50	1955 Oct 12	Matador	-	3090	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A487	2435407.50	1955 Oct 27	Matador	-	GM-11051	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A570	2435418.50	1955 Nov 7	Matador	-	2	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A488	2435421.50	1955 Nov 10	Matador	-	GM-11055	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1955-A571	2435442.50	1955 Dec 1	Matador	-	54-3092	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1955-A572	2435448.50	1955 Dec 7	Matador	-	53-189	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A219	2435477.50	1956 Jan 5	Matador	-	5	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A220	2435484.50	1956 Jan 12	Matador	-	RTV 9	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A04	2435491.50	1956 Jan 19	Matador	-	GM-54-17	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A06	2435497.50	1956 Jan 25	Matador	-	GM-54-18	0.000	WADD	MS	-	-	Test	MT60-2544	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A221	2435498.50	1956 Jan 26	Matador	-	54-3095	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A08	2435499.50	1956 Jan 27	Matador	-	GM-54-16	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A13	2435509.50	1956 Feb 6	Matador	-	GM-54-12	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A14	2435509.50	1956 Feb 6	Matador	-	GM-54-11	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A222	2435513.50	1956 Feb 10	Matador	-	GM-53-190	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A224	2435533.50	1956 Mar 1	Matador	-	53192	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A225	2435547.50	1956 Mar 15	Matador	-	6	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A34	2435555.50	1956 Mar 23	Matador	-	GM-54-22	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A35	2435555.50	1956 Mar 23	Matador	-	GM-54-26	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A36	2435558.50	1956 Mar 26	Matador	-	GM-54-31	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A37	2435558.50	1956 Mar 26	Matador	-	GM-54-19	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A38	2435558.50	1956 Mar 26	Matador	-	GM-54-35	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A39	2435560.50	1956 Mar 28	Matador	-	GM-54-21	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A40	2435560.50	1956 Mar 28	Matador	-	GM-54-30	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A41	2435560.50	1956 Mar 28	Matador	-	GM-54-25	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A42	2435560.50	1956 Mar 28	Matador	-	GM-54-36	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A226	2435561.50	1956 Mar 29	Matador	-	54-3098	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A43	2435567.50	1956 Apr 4	Matador	-	GM-54-28	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A44	2435569.50	1956 Apr 6	Matador	-	GM-54-34	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A45	2435569.50	1956 Apr 6	Matador	-	GM-54-23	0.000	11TMS	MS	-	-	Test	MT60-2544	-	-
1956-A227	2435579.50	1956 Apr 16	Matador	-	221	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A228	2435588.50	1956 Apr 25	Matador	-	GM 53-195	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A51	2435595.50	1956 May 2	Matador	-	GM-11065	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1956-A229	2435607.50	1956 May 14	Matador	-	M-208	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A55	2435614.38	1956 May 20 2100	Matador	-	GM-11091	0.000	6555GMS	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1956-A230	2435617.50	1956 May 24	Matador	-	543099	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A231	2435618.50	1956 May 25	Matador	-	53-191	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A232	2435635.50	1956 Jun 11	Matador	-	GM 53-194	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A81	2435714.50	1956 Aug 29	Matador	-	GM-55-528	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A82	2435715.50	1956 Aug 30	Matador	-	GM-55-529	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A85	2435728.50	1956 Sep 12	Matador	-	GM-55-527	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1956-A86	2435728.50	1956 Sep 12	Matador	-	GM-54-132	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A88	2435736.50	1956 Sep 20	Matador	-	GM-54-13	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A91	2435742.50	1956 Sep 26	Matador	-	GM-54-133	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A92	2435742.50	1956 Sep 26	Matador	-	GM-54-230	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1956-A233	2435749.50	1956 Oct 3	Matador	-	-	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A99	2435750.50	1956 Oct 4	Matador	-	GM-54-14	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A103	2435758.50	1956 Oct 12	Matador	-	GM-54-15	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A234	2435778.50	1956 Nov 1	Matador	-	-	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A110	2435786.50	1956 Nov 9	Matador	-	GM-54-127	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A235	2435791.50	1956 Nov 14	Matador	-	-	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1956-A112	2435798.50	1956 Nov 21	Matador	-	GM-54-128	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1956-A115	2435808.15	1956 Nov 30 1530	Matador	-	GM-54-129	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1957-A177	2435891.22	1957 Feb 21 1712	Matador	-	2096	0.000	WADD	MS	-	-	Test	wsmr-history.org	-	-
1957-A23	2435938.50	1957 Apr 10	Matador	-	-	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A24	2435939.50	1957 Apr 11	Matador	-	-	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A39	2435974.50	1957 May 16	Matador	-	-	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A40	2435975.50	1957 May 17	Matador	-	-	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A88	2436079.50	1957 Aug 29	Matador	-	GM-54-137	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A93	2436084.50	1957 Sep 3	Matador	-	GM-54-20	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A94	2436086.50	1957 Sep 5	Matador	-	GM-54-139	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A95	2436086.50	1957 Sep 5	Matador	-	GM-54-32	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A104	2436106.50	1957 Sep 25	Matador	-	GM-54-177	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A178	2436106.50	1957 Sep 25	Matador	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1957-A108	2436107.50	1957 Sep 26	Matador	-	GM-54-27	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A113	2436112.50	1957 Oct 1	Matador	-	GM-54-140	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A114	2436112.50	1957 Oct 1	Matador	-	GM-54-38	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A130	2436156.50	1957 Nov 14	Matador	-	GM-54-138	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A223	2436240.50	1958 Feb 6	Matador	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1958-A221	2436252.50	1958 Feb 18	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A222	2436263.27	1958 Feb 28 1830	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A15	2436275.50	1958 Mar 13	Matador	-	GM-56-1963	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A16	2436275.50	1958 Mar 13	Matador	-	GM-54-24	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A17	2436275.50	1958 Mar 13	Matador	-	GM-54-142	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A18	2436275.50	1958 Mar 13	Matador	-	GM-56-1962	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A219	2436331.50	1958 May 8	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A220	2436365.22	1958 Jun 10 1720	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A142	2436520.18	1958 Nov 12 1615	Matador	-	Training #1	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A143	2436520.50	1958 Nov 13	Matador	-	Training #2	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A224	2436525.23	1958 Nov 17 1730	Matador	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1958-A225	2436525.42	1958 Nov 17 2200?	Matador	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1958-A157	2436539.50	1958 Dec 2	Matador	-	Training #3	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A158	2436540.50	1958 Dec 3	Matador	-	Training #4	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A159	2436541.50	1958 Dec 4	Matador	-	Training #5	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A160	2436541.50	1958 Dec 4	Matador	-	Training #6	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A09	2436576.13	1959 Jan 7 1503	Matador	-	Training #7	0.000	WADD	MS	-	-	Test	Ulrich	MT60-2544	-
1959-A10	2436576.50	1959 Jan 8	Matador	-	Training #8	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A276	2436593.50	1959 Jan 25	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1959-A269	2436598.50	1959 Jan 30	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A270	2436609.50	1959 Feb 10	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A32	2436624.50	1959 Feb 25	Matador	-	Training #9	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A33	2436624.50	1959 Feb 25	Matador	-	Training #10	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A34	2436624.50	1959 Feb 25	Matador	-	Training #11	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A35	2436625.50	1959 Feb 26	Matador	-	Training #12	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A271	2436653.50	1959 Mar 26	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A272	2436675.50	1959 Apr 17	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A65	2436680.50	1959 Apr 22	Matador	-	Training #13	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A66	2436680.50	1959 Apr 22	Matador	-	Training #14	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A67	2436681.50	1959 Apr 23	Matador	-	Training #15	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A68	2436681.50	1959 Apr 23	Matador	-	Training #16	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A273	2436700.50	1959 May 12	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A95	2436729.50	1959 Jun 10	Matador	-	Training #17	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A96	2436729.50	1959 Jun 10	Matador	-	Training #18	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A97	2436730.50	1959 Jun 11	Matador	-	Training #19	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A98	2436730.50	1959 Jun 11	Matador	-	Training #20	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A274	2436744.50	1959 Jun 25	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A142	2436805.50	1959 Aug 25	Matador	-	GM-54-46	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A143	2436805.50	1959 Aug 25	Matador	-	GM-54-47	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A275	2436814.50	1959 Sep 3	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1959-A162	2436833.50	1959 Sep 22	Matador	-	GM-54-48	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A163	2436833.50	1959 Sep 22	Matador	-	GM-54-43	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A181	2436868.50	1959 Oct 27	Matador	-	GM-54-45	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A182	2436868.50	1959 Oct 27	Matador	-	GM-54-49	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A185	2436870.50	1959 Oct 29	Mace	-	56-2884	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1959-A190	2436882.50	1959 Nov 10	Matador	-	GM-54-52	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A193	2436896.50	1959 Nov 24	Matador	-	GM-54-50	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A194	2436896.50	1959 Nov 24	Matador	-	GM-54-51	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A195	2436896.50	1959 Nov 24	Matador	-	GM-54-44	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1959-A201	2436907.44	1959 Dec 4 2227	Mace	-	56-2893	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1959-A202	2436911.50	1959 Dec 9	Matador	-	GM-54-53	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A15	2436946.50	1960 Jan 13	Matador	-	GM-54-54	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A16	2436946.50	1960 Jan 13	Matador	-	GM-54-55	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A373	2436970.21	1960 Feb 5 1700	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1960-A39	2436974.50	1960 Feb 10	Matador	-	GM-54-56	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A41	2436976.37	1960 Feb 11 2049	Mace	-	57-2445	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1960-A64	2437002.50	1960 Mar 9	Matador	-	GM-54-58	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A88	2437025.35	1960 Mar 31 2025?	Mace	-	57-2452	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1960-A95	2437037.50	1960 Apr 13	Matador	-	GM-54-57	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A96	2437037.50	1960 Apr 13	Matador	-	GM-56-1925	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A103	2437051.50	1960 Apr 27	Mace	-	58-1408	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A374	2437065.50	1960 May 11	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1960-A119	2437066.50	1960 May 12	Matador	-	GM-54-62	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A120	2437066.50	1960 May 12	Matador	-	GM-54-60	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A381	2437068.50	1960 May 14	Matador	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1960-A125	2437078.50	1960 May 24	Matador	-	GM-56-1928	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A126	2437078.50	1960 May 24	Matador	-	GM-54-67	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A375	2437080.50	1960 May 26	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1960-A140	2437088.50	1960 Jun 3	Mace	-	58-1391	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A142	2437093.50	1960 Jun 8	Matador	-	GM-56-1927	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A143	2437093.50	1960 Jun 8	Matador	-	GM-55-427	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A144	2437093.50	1960 Jun 8	Matador	-	GM-54-63	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A146	2437094.50	1960 Jun 9	Matador	-	GM-55-426	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A147	2437095.50	1960 Jun 10	Matador	-	GM-54-124	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A148	2437095.50	1960 Jun 10	Matador	-	GM-54-125	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A149	2437098.50	1960 Jun 13	Matador	-	GM-54-61	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A150	2437098.50	1960 Jun 13	Matador	-	GM-56-1918	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A151	2437100.50	1960 Jun 15	Matador	-	GM-56-1919	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A154	2437109.50	1960 Jun 24	Mace	-	56-2898	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A155	2437113.50	1960 Jun 28	Matador	-	GM-56-1914	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A156	2437113.50	1960 Jun 28	Matador	-	GM-56-1915	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A164	2437126.50	1960 Jul 11	Mace	-	58-1417 (20)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A166	2437128.50	1960 Jul 13	Matador	-	GM-54-88	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A167	2437129.50	1960 Jul 14	Matador	-	GM-54-65	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A195	2437156.50	1960 Aug 10	Matador	-	GM-54-90	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A207	2437169.50	1960 Aug 23	Matador	-	GM-54-64	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A208	2437169.50	1960 Aug 23	Matador	-	GM-54-66	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A216	2437184.50	1960 Sep 7	Matador	-	GM-56-1929	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A224	2437198.50	1960 Sep 21	Mace	-	58-1226 (21)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A231	2437205.50	1960 Sep 28	Matador	-	GM-56-1937	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A232	2437205.50	1960 Sep 28	Matador	-	GM-56-1932	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A239	2437215.40	1960 Oct 7 2131	Mace	-	58-1427 (22)	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1960-A242	2437219.50	1960 Oct 12	Matador	-	GM-56-1940	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A248	2437229.34	1960 Oct 21 2006	Mace	-	59-4976 (23)	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1960-A382	2437232.50	1960 Oct 25	Mace	-	58-1400	0.000	WADD	MS	-	-	Test	Ulrich/Wire	-	-
1960-A251	2437233.50	1960 Oct 26	Matador	-	GM-56-1935	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A252	2437233.50	1960 Oct 26	Matador	-	GM-56-1939	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A255	2437240.50	1960 Nov 2	Matador	-	GM-55-40	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A259	2437247.50	1960 Nov 9	Matador	-	GM-56-1938	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A262	2437253.50	1960 Nov 15	Mace	-	59-4980 (27)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1960-A292	2437275.50	1960 Dec 7	Matador	-	GM-56-1930	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A293	2437275.50	1960 Dec 7	Matador	-	GM-54-89	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1960-A303	2437285.58	1960 Dec 17 0200	Mace	-	56-2889 (8)	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary -
1961-A24	2437317.50	1961 Jan 18	Matador	-	GM-56-1936	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A25	2437317.50	1961 Jan 18	Matador	-	GM-56-1943	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A46	2437338.50	1961 Feb 8	Matador	-	GM-56-1941	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A72	2437365.50	1961 Mar 7	Mace	-	59-4979 (26)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A74	2437366.50	1961 Mar 8	Matador	-	GM-56-1945	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A75	2437374.50	1961 Mar 16	Mace	-	59-4977 (24)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A83	2437387.30	1961 Mar 28 1906	Mace	-	59-4978 (25)	0.000	WADD	MF	U	-	Test	Ulrich/Wire	MT60-2544	Cleary
1961-A101	2437402.50	1961 Apr 13	Matador	-	GM-56-1931	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A112	2437418.19	1961 Apr 28 1630	Mace	-	59-4874 (46)	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1961-A124	2437430.50	1961 May 11	Matador	-	GM-56-1942	0.000	WADD	MS	-	-	Test	MT60-2544	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A125	2437430.50	1961 May 11	Matador	-	GM-56-1946	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1961-A141	2437452.04	1961 Jun 1 1300	Matador	-	GM-56-1949	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1961-A142	2437452.17	1961 Jun 1 1600	Matador	-	GM-56-1948	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1961-A143	2437452.30	1961 Jun 1 1915	Matador	-	GM-56-1947	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1961-A144	2437452.42	1961 Jun 1 2201	Matador	-	GM-56-1944	0.000	4504MTW	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1961-A145	2437452.50	1961 Jun 2	Mace	-	59-4876 (48)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A152	2437466.50	1961 Jun 16	Mace	-	59-4879 (51)	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A155	2437472.19	1961 Jun 21 1630	Mace	-	59-4883 (55)	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1961-A169	2437498.50	1961 Jul 18	Mace	-	60-5397	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A185	2437516.28	1961 Aug 4 1840	Mace	-	60-5399	0.000	WADD	MS	-	-	Test	Ulrich/Wire	Cleary	EST
1961-A196	2437543.50	1961 Sep 1	Mace	-	60-5398	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A204	2437564.50	1961 Sep 22	Mace	-	60-5400	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A380	2437572.50	1961 Oct	Mace	-	-	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1961-A236	2437617.50	1961 Nov 14	Mace	-	60-5396	0.000	WADD	MS	-	-	Test	MT60-2544	Cleary	-
1961-A246	2437639.56	1961 Dec 6 0124	Mace	-	59-4887	0.000	WADD	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1962-A06	2437676.50	1962 Jan 12	Mace	-	60-5401	0.000	TAC	MS	-	-	Test	MT60-2544	Cleary	-
1962-A07	2437677.30	1962 Jan 12 1908:02	Mace	-	60-5405	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A12	2437689.21	1962 Jan 24 1702:36	Mace	-	59-4885	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A13	2437691.08	1962 Jan 26 1402:04	Mace	-	59-2468	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A15	2437697.17	1962 Feb 1 1609	Mace	-	60-5403	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A19	2437704.25	1962 Feb 8 1800:01	Mace	-	60-5406	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A21	2437711.38	1962 Feb 15 2113:47	Mace	-	59-4886	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A22	2437717.35	1962 Feb 21 2023:34	Mace	-	59-4889	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A29	2437725.17	1962 Mar 1 1600:05	Mace	-	58-1425	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A31	2437726.17	1962 Mar 2 1600:00	Mace	-	59-4888	0.000	TAC	MS	-	-	Test	MT60-2544/nsf-koenn	Cleary	-
1962-A184	2437969.21	1962 Oct 31 1708:07	Mace	-	58-1443	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1962-A192	2437977.54	1962 Nov 9 0058:01	Mace	-	59-4891	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1962-A211	2438003.41	1962 Dec 4 2147:37	Mace	-	59-4892	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1962-A219	2438010.32	1962 Dec 11 1945:34	Mace	-	59-4890	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1963-A87	2438186.17	1963 Jun 5 1610:00	Mace	-	58-1423	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1963-A89	2438193.22	1963 Jun 12 1723:26	Mace	-	58-1435	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1963-A96	2438209.10	1963 Jun 28 1420:40	Mace	-	59-2484	0.000	TAC	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1963-A105	2438228.08	1963 Jul 17 1359:59	Mace	-	59-4981	0.000	4505M	MS	-	-	Test	nsf-koenn	ETR-IDX	-
1967-A166	2439495.12	1967 Jan 4 1500	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1967-A167	2439830.50	1967 Dec 6	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1969-A226	2440376.42	1969 Jun 3 2200	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1969-A227	2440460.27	1969 Aug 26 1827	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1969-A228	2440503.14	1969 Oct 8 1520	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1969-A229	2440552.23	1969 Nov 26 1730	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A180	2440683.20	1970 Apr 6 1642	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A181	2440719.15	1970 May 12 1530	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A182	2440815.50	1970 Aug 17	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A183	2440818.44	1970 Aug 19 2230	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A184	2440859.25	1970 Sep 29 1805	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A188	2440882.17	1970 Oct 22 1610	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A185	2440895.14	1970 Nov 4 1515	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A186	2440914.28	1970 Nov 23 1845	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1970-A187	2440922.32	1970 Dec 1 1938	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A216	2440970.21	1971 Jan 18 1700	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A217	2440988.27	1971 Feb 5 1835	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A220	2441016.28	1971 Mar 5 1845	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A218	2441204.34	1971 Sep 9 2005	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A219	2441209.28	1971 Sep 14 1840	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A221	2441239.27	1971 Oct 14 1835	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1971-A222	2441244.27	1971 Oct 19 1832	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1974-A78	2442063.50	1974 Jan 16	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1974-A79	2442167.25	1974 Apr 29 1759	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1974-A80	2442196.50	1974 May 29	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1974-A81	2442228.27	1974 Jun 29 1822	Mace	-	-	0.000	TAC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1992-Y38	2448956.50	1992 Dec	MERA	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-
1992-Y39	2448956.50	1992 Dec	MERA	-	-	-	-	-	-	GTsP-4	-	-	-	85	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1992-Y38	2448956.50	1992 Dec	MERA	-	-	0.000	TSAO	SS	-	TSAO/	Test	crista.uni-wup	-	-
1992-Y39	2448956.50	1992 Dec	MERA	-	-	0.000	TSAO	SS	-	TSAO/	Test	crista.uni-wup	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-W51	2438005.50	1962 Dec 7	MD-01	-	MD-01/5 (105)	-	-	-	-	HMG	-	-	-	21	-	-
1962-W52	2438005.50	1962 Dec 7	MD-01	-	MD-01/6 (106)	-	-	-	-	HMG	-	-	-	17	-	-
1963-W20	2438173.50	1963 May 24	MD-01	-	MD-01/8 (108)	-	-	-	-	HMG	-	-	-	20?	-	-
1963-W21	2438178.50	1963 May 29	MD-01	-	Meteo M1A 01	-	-	-	-	HMG	-	-	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-W51	2438005.50	1962 Dec 7	MD-01	-	MD-01/5 (105)	0.000	CNES	SF	U	SUD/	Aeron	CNES	AASH35-355	-
1962-W52	2438005.50	1962 Dec 7	MD-01	-	MD-01/6 (106)	0.000	CNES	SF	U	SUD/	Aeron	CNES	AASH35-355	-
1963-W20	2438173.50	1963 May 24	MD-01	-	MD-01/8 (108)	0.000	CNES	SS	-	SUD/	Aeron	CNES	AASH35-355	-
1963-W21	2438178.50	1963 May 29	MD-01	-	Meteo M1A 01	0.000	CNES	SS	-	SUD/Blamont	Aeron	CNES	AASH35-355	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A04	2438029.50	1963	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A53	2438850.50	1965 Apr	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A84	2438927.50	1965 Jun 16	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A01	2438760.50	1965	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A02	2438760.50	1965	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A03	2438760.50	1965	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1965-A04	2438760.50	1965	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A02	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A03	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A04	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A05	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A06	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A07	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A08	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A09	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A10	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A11	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A12	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1966-A13	2439125.50	1966	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A02	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A03	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A04	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A05	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A06	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A07	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A08	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A09	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A10	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A11	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A12	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A13	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A14	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A15	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A16	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A17	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A18	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A19	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A20	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A21	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A22	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A23	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A24	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A25	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A26	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A27	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A28	2439490.50	1967	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A29	2439586.00	1967 Apr 5 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A30	2439587.00	1967 Apr 6 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A31	2439591.00	1967 Apr 10 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A32	2439592.00	1967 Apr 11 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A33	2439595.00	1967 Apr 14 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A34	2439598.00	1967 Apr 17 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A35	2439600.00	1967 Apr 19 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A36	2439601.00	1967 Apr 20 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A37	2439604.00	1967 Apr 23 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A38	2439613.00	1967 May 2 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A39	2439614.00	1967 May 3 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A40	2439617.00	1967 May 6 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A41	2439622.00	1967 May 11 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A67	2439623.00	1967 May 12 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1967-A81	2439624.00	1967 May 13 1200	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A02	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A03	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A04	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A05	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A06	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A07	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A08	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A09	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A10	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A11	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A12	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A13	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A14	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A15	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A16	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A17	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A18	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A19	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A20	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A21	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A22	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A23	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A24	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A25	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A26	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-A27	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A28	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A29	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A30	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A31	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A32	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A33	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A34	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A35	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A36	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A37	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A38	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A39	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A40	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A41	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A42	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A43	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A44	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A45	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-A46	2439855.50	1968	Meteor-1	-	-	-	-	-	-	LEBA	-	-	-	36	-	-
1968-W225	2440129.50	1968 Oct	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	65	-	-
1969-A168	2440498.35	1969 Oct 3 2030	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	45	-	-
1969-A169	2440498.40	1969 Oct 3 2133	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	48	-	-
1969-A170	2440498.44	1969 Oct 3 2230	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	49	-	-
1970-W1245	2440820.51	1970 Aug 22 0015:00	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	57	-	-
1970-W1292	2440832.34	1970 Sep 02 2015:00	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	63	-	-
1970-W1305	2440837.34	1970 Sep 07 2015:00	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	62	-	-
1970-W1322	2440839.34	1970 Sep 09 2015:00	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	61	-	-
1973-A26	2441845.15	1973 Jun 11 1540	Meteor-1	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	22	-	-
1973-A27	2441846.15	1973 Jun 12 1530	Meteor-1	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	23	-	-
1973-A28	2441848.15	1973 Jun 14 1530	Meteor-3	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	40?	-	-
1973-A29	2441849.15	1973 Jun 15 1530	Meteor-3	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	22	-	-
1973-A30	2441849.18	1973 Jun 15 1620	Meteor-1	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	40	-	-
1973-A49	2441941.15	1973 Sep 15 1530	Meteor-1	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	36	-	-
1973-A50	2441942.15	1973 Sep 16 1530:00	Meteor-3	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	44	-	-
1973-A51	2441943.16	1973 Sep 17 1550:00	Meteor-3	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	45	-	-
1973-A53	2441944.15	1973 Sep 18 1535:00	Meteor-3	-	Grot-Somit	-	-	-	-	LEBA	-	-	-	44	-	-
1974-W751	2442204.50	1974 Jun 6	Meteor-3	-	-	-	-	-	-	LEBA	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A04	2438029.50	1963	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1965-A53	2438850.50	1965 Apr	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	Alway	-	-
1965-A84	2438927.50	1965 Jun 16	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	MR650628-10	Alway	-
1965-A01	2438760.50	1965	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1965-A02	2438760.50	1965	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1965-A03	2438760.50	1965	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1965-A04	2438760.50	1965	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A02	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A03	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A04	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A05	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A06	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A07	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A08	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A09	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A10	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A11	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A12	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1966-A13	2439125.50	1966	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A02	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A03	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A04	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A05	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A06	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A07	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A08	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A09	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A10	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A11	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A12	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A13	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A14	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A15	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A16	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A17	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A18	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A19	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A20	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A21	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A22	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A23	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A24	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A25	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A26	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A27	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A28	2439490.50	1967	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1967-A29	2439586.00	1967 Apr 5 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A30	2439587.00	1967 Apr 6 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A31	2439591.00	1967 Apr 10 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A32	2439592.00	1967 Apr 11 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A33	2439595.00	1967 Apr 14 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A34	2439598.00	1967 Apr 17 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A35	2439600.00	1967 Apr 19 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A36	2439601.00	1967 Apr 20 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A37	2439604.00	1967 Apr 23 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A38	2439613.00	1967 May 2 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A39	2439614.00	1967 May 3 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A40	2439617.00	1967 May 6 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A41	2439622.00	1967 May 11 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	IMRM	-
1967-A67	2439623.00	1967 May 12 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	-	-
1967-A81	2439624.00	1967 May 13 1200	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	SR8-865	-	-
1968-A02	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A03	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A04	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A05	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A06	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A07	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A08	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A09	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A10	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A11	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A12	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A13	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A14	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A15	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A16	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A17	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A18	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A19	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A20	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A21	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A22	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A23	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A24	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A25	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A26	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-A27	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A28	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A29	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A30	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A31	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A32	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A33	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A34	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A35	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A36	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A37	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A38	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A39	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A40	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A41	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A42	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A43	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A44	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A45	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-A46	2439855.50	1968	Meteor-1	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	IMRM	-	-
1968-W225	2440129.50	1968 Oct	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	Alway	-	-
1969-A168	2440498.35	1969 Oct 3 2030	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1969-A169	2440498.40	1969 Oct 3 2133	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1969-A170	2440498.44	1969 Oct 3 2230	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1970-W1245	2440820.51	1970 Aug 22 0015:00	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1970-W1292	2440832.34	1970 Sep 02 2015:00	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1970-W1305	2440837.34	1970 Sep 07 2015:00	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1970-W1322	2440839.34	1970 Sep 09 2015:00	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	Alway	-
1973-A26	2441845.15	1973 Jun 11 1540	Meteor-1	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A27	2441846.15	1973 Jun 12 1530	Meteor-1	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A28	2441848.15	1973 Jun 14 1530	Meteor-3	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A29	2441849.15	1973 Jun 15 1530	Meteor-3	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A30	2441849.18	1973 Jun 15 1620	Meteor-1	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A49	2441941.15	1973 Sep 15 1530	Meteor-1	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	Alway	-
1973-A50	2441942.15	1973 Sep 16 1530:00	Meteor-3	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A51	2441943.16	1973 Sep 17 1550:00	Meteor-3	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1973-A53	2441944.15	1973 Sep 18 1535:00	Meteor-3	-	Grot-Somit	0.000	PIHM	SS	-	PIHM/	Aeron	WDCRF	-	-
1974-W751	2442204.50	1974 Jun 6	Meteor-3	-	-	0.000	PIHM	SS	-	PIHM/	Aeron	Alway	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-W23	2439855.50	1968?	Meteor-2H	-	1	-	-	-	-	LEBA?	-	-	-	68	-	-
1968-W24	2439855.50	1968?	Meteor-2H	-	2	-	-	-	-	LEBA?	-	-	-	68	-	-
1969-W05	2440221.50	1969?	Meteor-2H	-	3	-	-	-	-	LEBA?	-	-	-	68	-	-
1969-W06	2440221.50	1969?	Meteor-2H	-	4	-	-	-	-	LEBA?	-	-	-	68	-	-
1969-W07	2440221.50	1969?	Meteor-2H	-	5	-	-	-	-	LEBA?	-	-	-	68	-	-
1970-W13	2440586.50	1970?	Meteor-2H	-	6	-	-	-	-	LEBA?	-	-	-	68	-	-
1970-S426	2440777.70	1970 Jul 10 0445:00	Meteor-2K	-	-	-	-	-	-	LEBA	-	-	-	85	-	-
1970-S437	2440786.50	1970 Jul 19	Meteor-2K	-	8	-	-	-	-	LEBA?	-	-	-	90	-	-
1970-M25	2440866.90	1970 Oct 07 0930:00	Meteor-2K	-	-	-	-	-	-	LEBA	-	-	-	75	-	-
1970-S558	2440866.95	1970 Oct 07 1055:00	Meteor-2K	-	-	-	-	-	-	LEBA	-	-	-	89	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-W23	2439855.50	1968?	Meteor-2H	-	1	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1968-W24	2439855.50	1968?	Meteor-2H	-	2	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1969-W05	2440221.50	1969?	Meteor-2H	-	3	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1969-W06	2440221.50	1969?	Meteor-2H	-	4	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1969-W07	2440221.50	1969?	Meteor-2H	-	5	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1970-W13	2440586.50	1970?	Meteor-2H	-	6	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1970-S426	2440777.70	1970 Jul 10 0445:00	Meteor-2K	-	-	0.000	PIHM	SU	-	PIHM/	Aeron	WDCRF	-	-
1970-S437	2440786.50	1970 Jul 19	Meteor-2K	-	8	0.000	PIHM	SS	-	PIHM/	Test	Alway	-	-
1970-M25	2440866.90	1970 Oct 07 0930:00	Meteor-2K	-	-	0.000	PIHM	SU	-	PIHM/	Aeron	WDCRF	-	-
1970-S558	2440866.95	1970 Oct 07 1055:00	Meteor-2K	-	-	0.000	PIHM	SU	-	PIHM/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A159	2436826.50	1959 Sep 15	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1959-A168	2436843.50	1959 Oct 2	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1959-A177	2436863.50	1959 Oct 22	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1959-A209	2436924.50	1959 Dec 22	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1960-A21	2436960.50	1960 Jan 27	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1960-A61	2436997.50	1960 Mar 4	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL2?	-	-	0	-	-
1960-A91	2437029.50	1960 Apr 5	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1960-A118	2437061.61	1960 May 7 0233	Minuteman 1A	T	-	Silo Test	-	-	-	EAFB	TL1	-	-	0	-	-
1961-S33	2437332.17	1961 Feb 1 1559	Minuteman 1A	-	401	Mk 5 RV	R&D	-	-	CC	LC31A	-	-	1300?	7800	ASC BOA?
1961-S154	2437439.10	1961 May 19 1418	Minuteman 1A	-	402	Mk 5 RV	R&D	-	-	CC	LC31A	-	-	100	-	(ASC BOA)
1961-S222	2437508.13	1961 Jul 27 1509	Minuteman 1A	-	403	Mk 5 RV	R&D	-	-	CC	LC31A	-	-	1300?	-	ASC
1961-A192	2437542.23	1961 Aug 30 1730	Minuteman 1A	-	404	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	1	0	(ETR-M)
1961-S379	2437621.14	1961 Nov 17 1515	Minuteman 1A	-	405	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	5500	ETR-M
1961-S429	2437652.04	1961 Dec 18 1304	Minuteman 1A	-	406	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	6700	-
1962-S09	2437670.13	1962 Jan 5 1500:02	Minuteman 1A	-	407	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	5900	-
1962-S24	2437690.12	1962 Jan 25 1459:48	Minuteman 1A	-	408	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	5900	-
1962-S38	2437711.15	1962 Feb 15 1535:53	Minuteman 1A	-	410	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	7200	-
1962-S64	2437732.14	1962 Mar 8 1523:51	Minuteman 1A	-	409	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	-	-
1962-S74	2437746.56	1962 Mar 23 0130:02	Minuteman 1A	-	411	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	7400?	-
1962-A58	2437779.58	1962 Apr 25 0159:45	Minuteman 1A	-	412	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	20	5?	-
1962-S128	2437796.13	1962 May 11 1500:02	Minuteman 1A	-	413	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	6700	-
1962-S134	2437803.58	1962 May 19 0159:59	Minuteman 1A	-	414	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	6700	-
1962-S178	2437824.23	1962 Jun 8 1735:01	Minuteman 1A	-	415	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	6700	-
1962-S207	2437844.74	1962 Jun 29 0540:00	Minuteman 1A	-	416	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	5100	-
1962-A110	2437858.63	1962 Jul 13 0303:10	Minuteman 1A	-	417	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	1	10?	-
1962-A133	2437886.13	1962 Aug 9 1505:02	Minuteman 1A	-	418	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	1	10?	-
1962-S336	2437926.63	1962 Sep 19 0306:22	Minuteman 1A	-	421	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	5500?	-
1962-S337	2437927.66	1962 Sep 20 0345:41	Minuteman 1A	-	420	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	5500?	-
1962-M23	2437936.38	1962 Sep 28 2101	Minuteman 1A	-	503	Mk 5 RV	R&D Cat I	BIG GAME	-	V	394A3	-	-	50	-	-
1962-A172	2437955.54	1962 Oct 18 0051:54	Minuteman 1A	-	422	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	1	-	-
1962-S482	2437988.21	1962 Nov 19 1700:11	Minuteman 1A	-	421A	Mk 5 RV	R&D	-	-	CC	LC31B	-	-	900?	6500?	-
1962-S541	2438006.13	1962 Dec 7 1500:01	Minuteman 1B	-	424	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	6500?	-
1962-A216	2438009.33	1962 Dec 10 2000?	Minuteman 1A	-	502	Mk 5 RV	R&D Cat I	AMERICAN BEAUTY	-	V	394A4	-	-	20	-	-
1962-S563	2438013.63	1962 Dec 15 0300:10	Minuteman 1B	-	423	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	ASC
1962-M42	2438019.52	1962 Dec 21 0035:15	Minuteman 1A	-	426	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	50	-	-
1963-S09	2438037.44	1963 Jan 7 2230:10	Minuteman 1B	-	423A	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	100	-	-
1963-S19	2438053.26	1963 Jan 23 1810:13	Minuteman 1B	-	419	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	7400?	-
1963-S57	2438081.54	1963 Feb 21 0100:04	Minuteman 1A	-	421B	Mk 5 RV	R&D	-	-	CC	LC32B	-	-	900?	5500?	-
1963-S103	2438107.56	1963 Mar 19 0129:59	Minuteman 1B	-	425	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	100?	-	-
1963-S114	2438116.56	1963 Mar 28 0130:00	Minuteman 1B	-	419A	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	7400?	-
1963-S141	2438130.59	1963 Apr 11 0208:59	Minuteman 1B	-	425A	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	7400?	-
1963-S143	2438131.35	1963 Apr 11 2030	Minuteman 1A	-	534	Mk 5 RV	R&D	AFGHAN RUG	-	V	394A5	-	-	900?	9300?	-
1963-S145	2438131.50	1963 Apr 12	Minuteman 1A	-	565	Mk 5 RV	R&D	VELVET TOUCH	-	V	394A1	-	-	900?	-	-
1963-S168	2438142.50	1963 Apr 23	Minuteman 1A	-	585	Mk 5 RV	R&D	PAT HAND	-	V	394A4	-	-	900?	-	-
1963-S184	2438149.50	1963 Apr 30	Minuteman 1A	-	595	Mk 5 RV	R&D	BOLD JOURNEY	-	V	394A2	-	-	900?	9300?	-
1963-S191	2438158.58	1963 May 9 0200?	Minuteman 1A	-	604	Mk 5 RV	R&D	FINE SHOW	-	V	394A5	-	-	900?	-	-
1963-A78	2438167.72	1963 May 18 0514:00	Minuteman 1B	-	425B	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	10	-	-
1963-S232	2438174.74	1963 May 25 0550?	Minuteman 1B	-	658	Mk 11 RV	R&D	HEY DAY	-	V	394A6	-	-	900?	9300?	-
1963-S242	2438178.70	1963 May 29 0448:14	Minuteman 1B	-	428	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	7400?	-
1963-S260	2438186.68	1963 Jun 6 0414:59	Minuteman 1B	-	427	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1963-S281	2438198.50	1963 Jun 18	Minuteman 1A	-	521	Mk 5 RV	DASO	WAR AXE	-	V	394A3	-	-	900?	-	-
1963-S302	2438208.61	1963 Jun 28 0234:12	Minuteman 1B	-	429	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	7400?	-
1963-S306	2438209.50	1963 Jun 29	Minuteman 1A	-	546	Mk 5 RV	DASO	TRIM CHIEF	-	V	394A1	-	-	900?	-	-
1963-S316	2438212.41	1963 Jul 1 2143:55	Minuteman 1B	-	431	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1963-S329	2438216.38	1963 Jul 5 2100	Minuteman 1A	-	518	Mk 5 RV	R&D	GRAND TOUR	-	V	394A4	-	-	900?	-	-
1963-S336	2438222.46	1963 Jul 11 2300	Minuteman 1A	-	650	Mk 5 RV	DASO	TRIPLE PLAY	-	V	394A2	-	-	900?	-	-
1963-A104	2438227.60	1963 Jul 17 0230:02	Minuteman 1B	-	430	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	10	-	-
1963-S353	2438235.65	1963 Jul 25 0330:13	Minuteman 1B	-	432	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	3700?	-
1963-S363	2438237.50	1963 Jul 27	Minuteman 1A	-	514	Mk 5 RV	DASO	DIAL RIGHT	-	V	394A5?	-	-	900?	9300?	-
1963-S378	2438247.23	1963 Aug 5 1730:15	Minuteman 1B	-	433	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	100	-	-
1963-S381	2438249.50	1963 Aug 8	Minuteman 1A	-	520	Mk 5 RV	DASO	WELL DONE	-	V	394A1	-	-	900?	-	-
1963-S407	2438269.21	1963 Aug 27 1702:23	Minuteman 1B	-	435	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	-	-
1963-S410	2438271.50	1963 Aug 30 0000?	Minuteman 1B	-	625	Mk 11 RV	R&D	GLASS WAND	-	V	394A6	-	-	900?	9300?	-
1963-S459	2438299.55	1963 Sep 27 0115	Minuteman 1B	-	770	Mk 11 RV	R&D	STATE PARK	-	V	394A7	-	-	900?	9300?	-
1963-S476	2438307.50	1963 Oct 5	Minuteman 1B	-	695	Mk 11 RV	R&D	GOLD DUKE	-	V	394A6	-	-	900?	-	-
1963-S497	2438319.50	1963 Oct 17	Minuteman 1A	-	672	Mk 5 RV	OT, flew long	CEDAR LAKE	-	V	394A3	-	-	900?	10700?	-
1963-S526	2438333.50	1963 Oct 31	Minuteman 1A	-	664	Mk 5 RV	OT	DRAG CHUTE	-	V	394A5	-	-	900?	-	-
1963-S534	2438335.50	1963 Nov 2	Minuteman 1A	-	613	Mk 5 RV	OT	HARD LINE	-	V	394A2	-	-	900?	-	-
1963-A164	2438341.21	1963 Nov 7 1700:02	Minuteman 1B	-	434	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	1	-	-
1963-S549	2438347.19	1963 Nov 13 1627:57	Minuteman 1B	-	446	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1963-S570	2438360.50	1963 Nov 27	Minuteman 1B	-	842	Mk 11 RV	DASO-1	BIG CIRCLE	-	V	394A6	-	-	900?	-	-
1963-S575	2438362.50	1963 Nov 29	Minuteman 1A	-	642	Mk 5 RV	OT	ARM CHAIR	-	V	394A5	-	-	50?	-	-
1963-S600	2438376.50	1963 Dec 13	Minuteman 1B	-	854	Mk 11 RV	DASO-2	ANSWER MAN	-	V	394A1	-	-	900?	9300?	-
1963-S601	2438376.50	1963 Dec 13	Minuteman 1A	-	708	Mk 5 RV	OT	BAMBOO SHOOT	-	V	394A3	-	-	900?	-	-
1963-S606	2438381.62	1963 Dec 18 0300	Minuteman 1B	-	447	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	ASC
1963-S611	2438383.50	1963 Dec 20	Minuteman 1A	-	515	Mk 5 RV	OT	BENT HOOK	-	V	394A5	-	-	900?	-	-
1964-S23	2438404.50	1964 Jan 10	Minuteman 1B	-	883	Mk 11 RV	DASO-3	CLOCK WATCH	-	V	LF07	-	-	900?	-	ENW
1964-S35	2438410.50	1964 Jan 16	Minuteman 1B	-	870	Mk 11 RV	DASO-4	DOUBLE BARREL	-	V	LF02	-	-	900?	-	ENW
1964-S34	2438411.52	1964 Jan 17 0029:59	Minuteman 1B	-	438	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1964-S45	2438418.56	1964 Jan 24 0130	Minuteman 1A	-	551	Mk 5 RV	OT	BLACK BUSH	-	V	LF04	-	-	900?	-	ENW
1964-S55	2438423.46	1964 Jan 28 2301:38	Minuteman 1B	-	448	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1964-S58	2438424.50	1964 Jan 30 0004:49	Minuteman 1B	-	808/64-111	Mk 11 Mod 5B RV	DASO-5	ECHO HILL	-	V	LF03	-	-	921	-	ENW 18
1964-S84	2438436.50	1964 Feb 11	Minuteman 1A	-	692	Mk 5 RV	OT	BLUE PAINT	-	V	LF06	-	-	900?	-	ENW
1964-S85	2438438.57	1964 Feb 13 0136:22	Minuteman 1B	-	436	Mk 11 RV/Decoys	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1964-S113	2438450.58	1964 Feb 25 0200	Minuteman 1B	-	813	Mk 11 RV	R&D	SNAP ROLL	-	V	LF02	-	-	900?	-	ENW
1964-S114	2438450.61	1964 Feb 25 0245	Minuteman 1B	-	688	Mk 11 RV	OT	FAST ORBIT	-	V	LF03	-	-	900?	-	ENW

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S117	2438451.56	1964 Feb 26 0129:58	Minuteman 1B	-	437	Mk 11 RV/Decoys	R&D	-	-	CC	LC31B	-	-	900?	9300?	ASC
1964-S121	2438453.59	1964 Feb 28 0204:14	Minuteman 1B	-	439	Mk 11 RV/Decoys	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1964-S122	2438454.50	1964 Feb 29	Minuteman 1A	-	581	Mk 5 RV	OT Ripple	BRASS RING	-	V	LF04	-	-	900?	-	ENW
1964-S123	2438454.50	1964 Feb 29	Minuteman 1A	-	636	Mk 5 RV	OT Ripple	BOX SEAT	-	V	LF05	-	-	900?	-	ENW
1964-S133	2438460.50	1964 Mar 6	Minuteman 1B	-	686	Mk 11 RV	OT	KITE TAIL	-	V	LF07	-	-	900?	-	ENW
1964-S145	2438468.21	1964 Mar 13 1704:47	Minuteman 1B	-	440	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	-	-
1964-S159	2438475.22	1964 Mar 20 1720:11	Minuteman 1B	-	442	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1964-S161	2438478.50	1964 Mar 24	Minuteman 1B	-	812	Mk 11 RV	OT	BIG TREE	-	V	LF02	-	-	900?	-	ENW
1964-A41	2438479.50	1964 Mar 25	Minuteman 1B	-	738	Mk 11 RV	OT	CHROME PLATE	-	V	LF03	-	-	1?	-	ENW
1964-S170	2438480.50	1964 Mar 26	Minuteman 1A	-	597	Mk 5 RV	OT-12	CIGAR SMOKE	-	V	LF05	-	-	900?	9300?	ENW
1964-S174	2438485.61	1964 Mar 31 0233:11	Minuteman 1B	-	441	Mk 11 RV	R&D/TRUMP target	-	-	CC	LC32B	-	-	900?	9300?	-
1964-S178	2438485.50	1964 Mar 31	Minuteman 1A	-	557	Mk 5 RV	OT	CRACKER BOX	-	V	LF04	-	-	900?	9300?	ENW
1964-S190	2438493.55	1964 Apr 8 0112:56	Minuteman 1B	-	443	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1964-S202	2438499.29	1964 Apr 13 1900?	Minuteman 1B	-	734	Mk 11 RV	OT	COPPER FACE	-	V	LF07	-	-	900?	9300?	ENW
1964-S223	2438508.96	1964 Apr 23 1100	Minuteman 1B	-	917	Mk 11 RV	OT	DARK LADY	-	V	LF03	-	-	900?	-	ENW
1964-S225	2438510.34	1964 Apr 24 2014:17	Minuteman 1B	-	444	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1964-S227	2438512.50	1964 Apr 27	Minuteman 1A	-	605	Mk 5 RV	OT-13	DRAG OUT	-	V	LF05	-	-	900?	-	ENW
1964-S233	2438522.50	1964 May 7	Minuteman 1B	-	1002	Mk 11 RV	OT	BLACK WASP	-	V	LF02	-	-	900?	9300?	ENW
1964-S238	2438526.50	1964 May 11	Minuteman 1A	-	718	Mk 5 RV	OT	DIP NET	-	V	LF06	-	-	900?	-	ENW
1964-S249	2438533.50	1964 May 18	Minuteman 1B	-	997	Mk 11 RV	OT	DRESS BLUES	-	V	LF03	-	-	900?	-	ENW
1964-S262	2438540.50	1964 May 25	Minuteman 1B	-	889	Mk 11 RV	OT	DEER HORN	-	V	LF07	-	-	900?	-	ENW
1964-S285	2438555.50	1964 Jun 9	Minuteman 1A	-	532	Mk 5 RV	OT	GOLD CLUB	-	V	LF05	-	-	900?	9300?	ENW
1964-S290	2438557.50	1964 Jun 11	Minuteman 1A	-	715	Mk 5 RV	OT	HIGH OCTANE	-	V	LF06	-	-	900?	9300?	ENW
1964-S295	2438562.03	1964 Jun 15 1240	Minuteman 1B	-	910	Mk 11 RV	OT	CRUSH PROOF	-	V	LF02	-	-	900?	9300?	ENW
1964-S312	2438576.38	1964 Jun 29 2100	Minuteman 1B	-	1141	Mk 11 RV	R&D	ELM BRANCH	-	V	LF09	-	-	900?	9300?	ENW
1964-S313	2438576.50	1964 Jun 30 0000	Minuteman 1A	-	631	Mk 5 RV	OT	BLACK PEPPER	-	V	LF04	-	-	900?	9300?	ENW
1964-S327	2438584.29	1964 Jul 7 1900?	Minuteman 1B	-	1007	Mk 11 RV	OT	NORMAL TIMES	-	V	LF02	-	-	900?	9300?	ENW
1964-A103	2438584.31	1964 Jul 7 1930?	Minuteman 1A	-	663	Mk 5 RV	OT	FIVE POINTS	-	V	LF05	-	-	10?	-	ENW
1964-S336	2438586.29	1964 Jul 9 1900?	Minuteman 1B	-	973	Mk 11 RV	OT	GEORGIA BOY	-	V	LF07	-	-	900?	9300?	ENW
1964-S343	2438589.50	1964 Jul 13	Minuteman 1B	-	861	Mk 11 RV	OT	OLD FOX	-	V	LF03	-	-	900?	9300?	ENW
1964-S383	2438603.50	1964 Jul 27	Minuteman 1A	-	617	Mk 5 RV	OT	GINGER FOOT	-	V	LF06	-	-	900?	9300?	ENW
1964-S407	2438614.50	1964 Aug 7	Minuteman 1B	-	998	Mk 11 RV	OT	GOLD REEF	-	V	LF03	-	-	900?	9300?	ENW
1964-S430	2438624.50	1964 Aug 17	Minuteman 1A	-	556	Mk 5 RV	OT	LIMBER POLE	-	V	LF05	-	-	900?	9300?	ENW
1964-S440	2438628.50	1964 Aug 21	Minuteman 1B	-	1072	Mk 11 RV	OT	LIGHT HORSE	-	V	LF08	-	-	900?	-	ENW
1964-S442	2438632.50	1964 Aug 25	Minuteman 1B	-	989	Mk 11 RV	OT	IVY TOWER	-	V	LF07	-	-	900?	-	ENW
1964-S455	2438640.41	1964 Sep 1 2151	Minuteman 1A	-	668	Mk 5 RV	OT	DAWN PATROL	-	V	LF04	-	-	900?	9300?	ENW
1964-S460	2438647.49	1964 Sep 8 2340	Minuteman 1A	-	576	Mk 5 RV	OT	LONG LINE	-	V	LF06	-	-	900?	-	ENW
1964-S462	2438649.53	1964 Sep 11 0050	Minuteman 1B	-	1024	Mk 11 RV	OT	HOT ROOF	-	V	LF02	-	-	900?	-	ENW
1964-S466	2438654.30	1964 Sep 15 1910	Minuteman 1B	-	1179	Mk 11 RV	OT/ECP VER	QUICK LAUNCH	-	V	LF08	-	-	900?	9300?	ENW
1964-S475	2438660.30	1964 Sep 21 1916	Minuteman 1B	-	1108	Mk 11 RV	OT	LONG RANGE	-	V	LF09	-	-	900?	-	ENW
1964-S478	2438662.66	1964 Sep 24 0350	Minuteman 1B	-	906	Mk 11 RV	OT	MOUNT UP	-	V	LF03	-	-	900?	-	ENW
1964-S479	2438663.17	1964 Sep 24 1604:15	Minuteman 2	-	449	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	ASC
1964-S491	2438668.21	1964 Sep 29 1705	Minuteman 1B	-	994	Mk 11 RV	OT	PAINTED WARRIOR	-	V	LF07	-	-	900?	9300?	ENW
1964-A139	2438668.39	1964 Sep 29 2122:49	Minuteman 1B	-	445	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	1	-	-
1964-S548	2438698.19	1964 Oct 29 1628:13	Minuteman 2	-	450	Mk 11A RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	ASC?
1964-S563	2438702.50	1964 Nov 3 0000?	Minuteman 1B	-	853	Mk 11 RV	OT	PARIS ROYAL	-	V	LF08	-	-	900?	-	ENW
1964-S564	2438702.52	1964 Nov 3 0035?	Minuteman 1B	-	644	Mk 11 RV	OT [+35m]	NET GAIN	-	V	LF03	-	-	900?	-	ENW
1964-S571	2438704.39	1964 Nov 4 2120	Minuteman 1A	-	537	Mk 5 RV	OT	BLACK FROST	-	V	LF06	-	-	900?	-	ENW
1964-S575	2438704.50	1964 Nov 5	Minuteman 1B	-	873	Mk 11 RV	OT	LONG SHOT	-	V	LF09	-	-	900?	9300?	ENW
1964-S587	2438705.50	1964 Nov 6	Minuteman 1B	-	960	Mk 11 RV	OT	POP FLY	-	V	LF02	-	-	0?	-	-
1964-S588	2438705.50	1964 Nov 6	Minuteman 1B	-	848	Mk 11 RV	OT+45m	ORANGE CHUTE	-	V	LF07	-	-	900?	-	ENW
1964-S603	2438708.50	1964 Nov 9	Minuteman 1A	-	661	Mk 5 RV	OT	QUICK JUMP	-	V	LF05	-	-	900?	-	ENW
1964-S675	2438738.83	1964 Dec 9 0800?	Minuteman 1B	-	1101	Mk 11 RV	OT	TOP RAIL	-	V	LF08	-	-	0	0	-
1964-S676	2438739.33	1964 Dec 9 2000?	Minuteman 1B	-	1163	Mk 11 RV	OT	NICKED BLADE	-	V	LF02	-	-	900?	-	ENW
1964-S679	2438745.25	1964 Dec 15 1759:59	Minuteman 2	-	451	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1964-S693	2438747.50	1964 Dec 18	Minuteman 1B	-	1057	Mk 11 RV	OT	ROSY FUTURE	-	V	LF07	-	-	900?	-	ENW
1964-S692	2438748.55	1964 Dec 19 0106:12	Minuteman 2	-	452	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1965-S40	2438781.33	1965 Jan 20 1950	Minuteman 1B	-	777	Mk 11 RV	OT	PURPLE LIGHT	-	V	LF03	-	-	900?	9300?	-
1965-S56	2438789.56	1965 Jan 29 0121:15	Minuteman 2	-	453	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	7400?	-
1965-S67	2438793.50	1965 Feb 2	Minuteman 1B	-	714	Mk 11 RV	OT	RED BRIDGE	-	V	LF08	-	-	900?	-	-
1965-S68	2438793.50	1965 Feb 2	Minuteman 1B	-	1041	Mk 11 RV	OT	SIDE TRIP	-	V	LF02	-	-	900?	-	-
1965-S84	2438800.35	1965 Feb 8 2021	Minuteman 1B	-	1142	Mk 11 RV	OT	PRONTO ROSE	-	V	LF09	-	-	900?	9300?	-
1965-A43	2438821.29	1965 Mar 1 1900	Minuteman 1B	-	-	Mk 11 RV	LONG LIFE	LONG LIFE	-	ELLS	N2	-	-	1	2	-
1965-S120	2438821.55	1965 Mar 2 0110	Minuteman 1B	-	1093	Mk 11 RV	OT	GOLDEN ROSE	-	V	LF08	-	-	900?	9300?	-
1965-S142	2438827.50	1965 Mar 8	Minuteman 1B	-	1132	Mk 11 RV	OT	DOCK BELL	-	V	LF07	-	-	900?	-	-
1965-S162	2438835.50	1965 Mar 16	Minuteman 1B	-	801	Mk 11 RV	OT	TAIL FIN	-	V	LF02	-	-	900?	9300?	-
1965-S189	2438845.47	1965 Mar 25 2311	Minuteman 1B	-	756	Mk 11 RV	OT	QUICK NOTE	-	V	LF03	-	-	900?	9300?	-
1965-S224	2438860.84	1965 Apr 10 0810	Minuteman 1B	-	1150	Mk 11 RV	OT	SMOKEY RIVER	-	V	LF09	-	-	900?	-	-
1965-S229	2438864.38	1965 Apr 13 2100?	Minuteman 1B	-	851	Mk 11 RV	OT	SEA POINT	-	V	LF02	-	-	900?	-	-
1965-S230	2438864.38	1965 Apr 13 2100?	Minuteman 1B	-	1165	Mk 11 RV	OT	YELLOW LIGHT	-	V	LF08	-	-	900?	-	-
1965-S267	2438881.42	1965 Apr 30 2200?	Minuteman 1B	-	730	Mk 11 RV	OT	WINTER BREW	-	V	LF03	-	-	900?	-	-
1965-S276	2438888.58	1965 May 8 0159:59	Minuteman 2	-	455	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1965-S278	2438890.50	1965 May 10	Minuteman 1B	-	1003	Mk 11 RV	OT	VIOLET RAY	-	V	LF09	-	-	900?	9300?	-
1965-S295	2438898.50	1965 May 18	Minuteman 1B	-	1115	Mk 11 RV	OT	SILVER CLOUD	-	V	LF07	-	-	900?	-	-
1965-S311	2438906.58	1965 May 26 0200:00	Minuteman 2	-	456	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	-	-
1965-S333	2438913.94	1965 Jun 2 1040	Minuteman 1B	-	1054	Mk 11 RV	OT	SURF SPRAY	-	V	LF08	-	-	900?	9300?	-
1965-S346	2438918.50	1965 Jun 7	Minuteman 1B	-	810	Mk 11 RV	OT	WHEEL HORSE	-	V	LF03	-	-	900?	9300?	-
1965-S351	2438921.50	1965 Jun 10	Minuteman 1B	-	669	Mk 11 RV	OT	SPEED KING	-	V	LF02	-	-	1?	1?	-
1965-S372	2438934.50	1965 Jun 23	Minuteman 1B	-	1033	Mk 11 RV	OT	WHITE GLOVE	-	V	LF09	-	-	900?	9300?	-
1965-S389	2438941.00	1965 Jun 29 1200	Minuteman 1B	-	1148	Mk 11 RV	OT	MAPLE GROVE	-	V	LF08	-	-	900?	9300?	-
1965-S417	2438943.50	1965 Jul 2	Minuteman 1B	-	799	Mk 11A RV	OT	SWEET TALK	-	V	LF03	-	-	900?	-	-
1965-S419	2438947.50	1965 Jul 6	Minuteman 1B	-	1069	Mk 11 RV	OT	STAR DUST	-	V	LF07	-	-	900?	-	-
1965-S442	2438976.65	1965 Aug 4 0341:10	Minuteman 2	-	457	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1965-S470	2438990.98	1965 Aug 18 1130	Minuteman 2	-	2001	Mk 11A RV	R&D	REBEL RANGER	-	V	LF21	-	-	900?	9300?	ENW
1965-S473	2438996.33	1965 Aug 23 2000:27	Minuteman 2	-	454	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	-	-
1965-S475	2438997.19	1965 Aug 24 1637:28	Minuteman 1A	-	677	Mk 5 RV	FOT-1	SHUTTLE TRAIN	-	V	LF06	-	-	1000	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S477	2438998.19	1965 Aug 25 1628:07	Minuteman 1A	-	509	Mk 5 RV	FOT-2	PILOT ROCK	-	V	LF04	-	-	500?	-	-
1965-S510	2439028.60	1965 Sep 25 0220:13	Minuteman 2	-	458	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	-	-
1965-S532	2439035.54	1965 Oct 2 0059:59	Minuteman 2	-	459	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	-	-
1965-S544	2439039.50	1965 Oct 6	Minuteman 2	-	2002	Mk 11 RV	R&D	DICE SPOT	-	V	LF22	-	-	900?	8300?	ENW
1965-S603	2439073.50	1965 Nov 9	Minuteman 2	-	2009	Mk 11A RV	R&D	LOW TREE	-	V	LF21	-	-	900?	8300?	ENW
1965-S681	2439109.22	1965 Dec 14 1723	Minuteman 1A	-	516	Mk 5 RV	FOT-3	GRAND RIVER	-	V	LF04	-	-	900?	-	ENW
1965-S682	2439110.59	1965 Dec 16 0210	Minuteman 2	-	2017	Mk 11 RV	R&D	PUSH PULL	-	V	LF24	-	-	900?	-	ENW
1966-S58	2439130.52	1966 Jan 5 0030:01	Minuteman 2	-	461	Mk 11 RV	R&D	-	-	CC	LC32B	-	-	900?	-	-
1966-S65	2439143.50	1966 Jan 18	Minuteman 2	-	2053	Mk 11A RV	R&D	RESTLESS DRIFTER	-	V	LF26	-	-	900?	8300?	ENW
1966-S74	2439147.50	1966 Jan 22	Minuteman 2	-	2022	Mk 11 RV	Force Mod	SUPREME CHIEF	-	V	LF05	-	-	900?	-	-
1966-S82	2439152.50	1966 Jan 27	Minuteman 1B	-	1243	Mk 5 RV	FOT-1	ANCHOR POLE	-	V	LF09	-	-	900?	8300?	-
1966-S108	2439167.54	1966 Feb 11 0100:04	Minuteman 2	-	460	Mk 11 RV	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1966-S109	2439168.53	1966 Feb 12 0039	Minuteman 1B	-	1387	Mk 11 RV	FOT-2	CREEK BED	-	V	LF07	-	-	900?	-	-
1966-S112	2439172.50	1966 Feb 16	Minuteman 2	-	2033	Mk 11A RV	R&D	CALAMITY JANE	-	V	LF25	-	-	900?	-	-
1966-S129	2439181.32	1966 Feb 24 1940	Minuteman 1A	-	529 (63-005)	Mk 5 RV	FOT-4 Salvo	SEA DEVIL	-	V	LF06	-	-	900?	8300?	ENW
1966-S130	2439181.32	1966 Feb 24 1940	Minuteman 1A	-	629 (63-112)	Mk 5 RV	FOT-5 Salvo	BROAD ARROW	-	V	LF04	-	-	900?	8300?	ENW
1966-S152	2439192.50	1966 Mar 8	Minuteman 1B	-	1362	Mk 11 RV	FOT-3	BAIT CAN	-	V	LF02	-	-	900?	9300?	-
1966-S160	2439195.50	1966 Mar 11	Minuteman 1B	-	1211	Mk 11 RV	FOT-4	CLEAN SLATE	-	V	LF03	-	-	900?	-	-
1966-S170	2439201.50	1966 Mar 17	Minuteman 2	-	2049	Mk 12 RV	Force Mod/NTMP KX-80	FAINT CLICK	-	V	LF08	-	-	900?	-	KMR
1966-S178	2439205.50	1966 Mar 21	Minuteman 1A	-	569 (63-061)	Mk 5 RV	FOT-6	TULIP TREE	-	V	LF06	-	-	900?	-	-
1966-S188	2439210.42	1966 Mar 25 2200?	Minuteman 1A	-	649 (63-130)	Mk 5 RV	FOT-7	WHITE BOOK	-	V	LF04	-	-	900?	-	-
1966-S205	2439216.56	1966 Apr 1 0129:55	Minuteman 2	-	462	Mk 11 RV?	R&D	-	-	CC	LC31B	-	-	900?	9300?	-
1966-S207	2439220.10	1966 Apr 4 1420	Minuteman 1B	-	1258	Mk 11 RV	FOT-5	ARROW FEATHER	-	V	LF02	-	-	900?	9300?	-
1966-S208	2439220.40	1966 Apr 4 2130?	Minuteman 1B	-	1347	Mk 11 RV	FOT-6 /+7h	FLY BURNER	-	V	LF09	-	-	900?	9300?	-
1966-S221	2439230.50	1966 Apr 15	Minuteman 1B	-	1312	Mk 11 RV	FOT-7	GAY CROWD	-	V	LF07	-	-	900?	9300?	-
1966-S232	2439237.50	1966 Apr 22	Minuteman 1B	-	1252	Mk 11 RV	FOT-8	ECHO CANYON	-	V	LF03	-	-	900?	-	-
1966-S246	2439248.36	1966 May 2 2035	Minuteman 1B	-	1388	Mk 11 RV	FOT-9	LACE STRAP	-	V	LF02	-	-	900?	-	-
1966-S264	2439262.09	1966 May 16 1410	Minuteman 1A	-	710 (63-175)	Mk 5 RV	FOT-8	SAGE GREEN	-	V	LF06	-	-	900?	8300?	ENW
1966-S265	2439262.27	1966 May 16 1830	Minuteman 1B	-	1191	Mk 11 RV	FOT-10	DOCK WORKER	-	V	LF09	-	-	900?	9300?	-
1966-S266	2439262.50	1966 May 17	Minuteman 1B	-	1314	Mk 11 RV	FOT-11	TIGHT DRUM	-	V	LF07	-	-	900?	-	-
1966-S286	2439277.34	1966 May 31 2010	Minuteman 1B	-	1270	Mk 11 RV	FOT-12	GREEN PEA	-	V	LF03	-	-	900?	9300?	-
1966-S287	2439277.45	1966 May 31 2255	Minuteman 1A	-	622 (63-109)	Mk 5 RV	FOT-9	NIGHT STAND	-	V	LF04	-	-	900?	8300?	ENW
1966-S297	2439279.45	1966 Jun 2 2241	Minuteman 1B	-	1240	Mk 11 RV	FOT-13	FOUR ACES	-	V	LF02	-	-	900?	-	-
1966-S305	2439287.24	1966 Jun 10 1739	Minuteman 1B	-	1261	Mk 11 RV	FOT-14	EBONY ANGEL	-	V	LF09	-	-	900?	-	-
1966-S336	2439301.47	1966 Jun 24 2310	Minuteman 2	-	2083	Mk 12 RV	Force Mod	FOX TRAP	-	V	LF08	-	-	900?	-	-
1966-S362	2439315.60	1966 Jul 9 0230:15	Minuteman 2	-	463	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1966-S363	2439318.31	1966 Jul 11 1922	Minuteman 1B	-	1250	Mk 11 RV	FOT	SOLID GOLD	-	V	LF03	-	-	10?	-	-
1966-S366	2439318.82	1966 Jul 12 0745	Minuteman 1B	-	653	Mk 11 RV	FOT	SUGAR CANE	-	V	LF09	-	-	900?	9300?	-
1966-S368	2439319.86	1966 Jul 13 0845	Minuteman 1B	-	764	Mk 11 RV	LGM-30B FOT-17	YOUNG LION	-	V	LF02	-	-	10?	-	-
1966-S389	2439332.50	1966 Jul 26	Minuteman 2	-	2045	Mk 11 RV?	Force Mod	TATTERED COAT	-	V	LF08	-	-	900?	9300?	-
1966-S390	2439332.50	1966 Jul 26	Minuteman 1B	-	1219	Mk 11 RV	FOT	RED MAN	-	V	LF07	-	-	900?	9300?	-
1966-S407	2439338.50	1966 Aug 1	Minuteman 2	-	2061	Mk 11 RV?	DASO	STAR BRIGHT	-	V	LF24	-	-	900?	9300?	-
1966-S417	2439342.50	1966 Aug 5	Minuteman 1B	-	1377	Mk 11 RV	FOT	PLAY BUSTER	-	V	LF03	-	-	900?	9300?	-
1966-S442	2439353.50	1966 Aug 16	Minuteman 1A	-	522 (63-021)	Mk 5 RV	FOT	GIBSON GIRL	-	V	LF06	-	-	10?	-	-
1966-S443	2439353.50	1966 Aug 16	Minuteman 1B	-	1342	Mk 11 RV	FOT+-3h	WHITE ARC	-	V	LF02	-	-	900?	9300?	-
1966-S450	2439360.37	1966 Aug 22 2052	Minuteman 1A	-	621 (63-103)	Mk 5 RV	FOT	TOWN DOCTOR	-	V	LF04	-	-	900?	-	-
1966-S456	2439364.40	1966 Aug 26 2136	Minuteman 2	-	2056	Mk 11 RV	DASO	CAREER GIRL	-	V	LF23	-	-	900?	-	-
1966-S465	2439367.30	1966 Aug 29 1905	Minuteman 1B	-	1197	Mk 11 RV	FOT	MOTHER CAT	-	V	LF07	-	-	900?	9300?	-
1966-S487	2439384.50	1966 Sep 16	Minuteman 1B	-	1291	Mk 11 RV	FOT	SNOW HILL	-	V	LF03	-	-	100?	-	-
1966-S495	2439388.50	1966 Sep 20	Minuteman 1A	-	571 (63-068)	Mk 5 RV	FOT	RED SPIDER	-	V	LF04	-	-	900?	-	-
1966-S500	2439391.10	1966 Sep 22 1430	Minuteman 1B	-	1262	Mk 11 RV	FOT/NTMP KX-66	HOT SPRINGS	-	V	LF09	-	-	900?	-	-
1966-S526	2439401.50	1966 Oct 3	Minuteman 1A	-	578	Mk 5 RV	FOT	GROVE HILL	-	V	LF06	-	-	900?	-	-
1966-S540	2439412.42	1966 Oct 13 2210	Minuteman 1B	-	1247	Mk 11 RV	FOT	SEA RAVEN	-	V	LF03	-	-	900?	-	-
1966-S552	2439420.36	1966 Oct 21 2035	Minuteman 1B	-	914	Mk 11 RV	FOT	MATCHED CLUBS	-	V	LF07	-	-	900?	-	-
1966-S581	2439431.50	1966 Nov 2	Minuteman 2	-	2068	Mk 11 RV?	DASO	GOLDEN AGE	-	V	LF22	-	-	10?	-	-
1966-S623	2439445.50	1966 Nov 16	Minuteman 1B	-	1207	Mk 11 RV	FOT/NTMP KX-69	LONG DOZEN	-	V	LF09	-	-	900?	-	WAKE
1966-S649	2439452.40	1966 Nov 22 2140	Minuteman 1B	-	1183	Mk 11 RV	FOT	WORKING GIRL	-	V	LF03	-	-	900?	-	-
1966-S681	2439473.41	1966 Dec 13 2155	Minuteman 2	-	2036	ERCS 1	494L (WATER TEST)	WATER TEST	-	V	LF05	-	-	900?	-	BOA
1966-S693	2439479.50	1966 Dec 20	Minuteman 1B	-	1227	Mk 11 RV	FOT	SHELL BEACH	-	V	LF09	-	-	900?	-	-
1966-S697	2439482.41	1966 Dec 22 2150	Minuteman 1B	-	923	Mk 11 RV	FOT Salvo	WILD DUCK	-	V	LF03	-	-	900?	9300?	-
1966-S698	2439482.41	1966 Dec 22 2150	Minuteman 1B	-	1128	Mk 11 RV	FOT Salvo	STONE AXE	-	V	LF07	-	-	900?	9300?	-
1967-S53	2439501.90	1967 Jan 11 0935	Minuteman 2	-	2073 [2113?]	Mk 12 RV	R&D/Force Mod/NTMP KX-82	BONUS BOY	-	V	LF08	-	-	900?	9300?	-
1967-S62	2439507.54	1967 Jan 17 0059:59	Minuteman 2	-	464	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1967-S73	2439515.44	1967 Jan 24 2235	Minuteman 1B	-	828	Mk 11 RV	FOT	TRUCK TRAVEL	-	V	LF09	-	-	900?	-	-
1967-S90	2439521.40	1967 Jan 30 2135	Minuteman 1B	-	1206	Mk 11 RV	LGM-30B FOT-32	BUCCANEER SWORD	-	V	LF03	-	-	900?	-	-
1967-S112	2439524.66	1967 Feb 3 0345	Minuteman 2	-	2087	ERCS 2	494L (SYCAMORE TREE)	SYCAMORE TREE	-	V	LF05	-	-	900?	-	BOA
1967-S118	2439528.50	1967 Feb 7	Minuteman 1B	-	893	Mk 11 RV	FOT	PIANO TUNER	-	V	LF07	-	-	900?	-	-
1967-S123	2439543.44	1967 Feb 21 2240	Minuteman 1B	-	700	Mk 11 RV	FOT Ripple	GLORY TRAIL	-	V	LF03	-	-	900?	-	-
1967-S124	2439543.44	1967 Feb 21 2240	Minuteman 1B	-	1263	Mk 11 RV	FOT Ripple	BUDDY BOY	-	V	LF09	-	-	900?	-	-
1967-S128	2439546.59	1967 Feb 25 0205:02	Minuteman 2	-	465	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	9300?	-
1967-S144	2439556.50	1967 Mar 7	Minuteman 1B	-	(64-002)	Mk 11 RV	FOT	OLD SAL	-	V	LF07	-	-	900?	-	-
1967-S167	2439572.35	1967 Mar 22 2030	Minuteman 1B	-	1253	Mk 11 RV	FOT	GLYCOL JELL	-	V	LF03	-	-	900?	-	-
1967-S196	2439588.38	1967 Apr 7 2100	Minuteman 1B	-	1426	Mk 11 RV	FOT	BUCK PASSER	-	V	LF09	-	-	10?	-	-
1967-S217	2439597.50	1967 Apr 17	Minuteman 2	-	2143	ERCS 3	494L	BUSY MISSILE	-	V	LF08	-	-	900?	-	BOA
1967-S228	2439601.50	1967 Apr 21	Minuteman 1B	-	1296	Mk 11 RV	FOT	GIPSY CAMP	-	V	LF03	-	-	900?	9300?	-
1967-S229	2439601.50	1967 Apr 21	Minuteman 2	-	2137	Mk 11A RV	ST OLYMPIC TRIALS 1	OLYMPIC TRIALS 1	-	V	LF22	-	-	900?	9300?	-
1967-S232	2439607.50	1967 Apr 27	Minuteman 1B	-	1193	Mk 11 RV	FOT	OLEO KNIFE	-	V	LF07	-	-	900?	-	-
1967-S236	2439608.90	1967 Apr 28 0930	Minuteman 1B	-	1019	Mk 11 RV	R&D	BUSY MUMMY	-	V	LF02	-	-	900?	-	-
1967-S255	2439622.10	1967 May 11 1423	Minuteman 2	-	2095	Mk 12 RV	Force Mod	BUSY FELLOW	-	V	LF21	-	-	900?	-	-
1967-S261	2439627.50	1967 May 17	Minuteman 1B	-	774	Mk 11 RV	FOT	GLOSSY COAST	-	V	LF09	-	-	900?	-	-
1967-S264	2439629.50	1967 May 19	Minuteman 1B	-	667	Mk 11 RV	R&D	BUSY GIANT	-	V	LF02	-	-	900?	-	-
1967-S265	2439629.50	1967 May 19	Minuteman 2	-	2122	Mk 11A RV	ST OLYMPIC TRIALS 2	OLYMPIC TRIALS 2	-	V	LF24	-	-	900?	-	-
1967-S268	2439632.50	1967 May 22	Minuteman 1B	-	1188	Mk 11 RV	FOT	GLOSS TWINE	-	V	LF03	-	-	900?	-	-
1967-S274	2439641.50	1967 May 31	Minuteman 1B	-	726	Mk 11 RV	FOT	GLIB TALKER	-	V	LF07	-	-	900?	-	-
1967-S279	2439642.50	1967 Jun 1	Minuteman 1B	-	757	Mk 11 RV	ST Cold/Heat Soak 1	BUGGY ROAD	-	V	LF06	-	-	900?	9300?	-
1967-S309	2439662.50	1967 Jun 21	Minuteman 1B	-	1357	Mk 11 RV	FOT	OHIO FARM	-	V	LF03	-	-	900?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S326	2439669.90	1967 Jun 28 0937	Minuteman 1B	-	751	Mk 11B RV	R&D	BUSY COUSIN	-	V	LF02	-	-	900?	-	-
1967-S334	2439676.50	1967 Jul 5	Minuteman 1B	-	1126	Mk 11 RV	FOT GB40	GLOWING BRIGHT 40	-	V	LF07	-	-	900?	-	-
1967-S343	2439683.50	1967 Jul 12	Minuteman 1B	-	800	Mk 11 RV	FOT GB42	GLOWING BRIGHT 42	-	V	LF09	-	-	900?	-	-
1967-S346	2439684.50	1967 Jul 13	Minuteman 1B	-	779	Mk 11B RV	ST Cold/Heat Soak 2?	OLD COIN	-	V	LF06	-	-	900?	-	-
1967-S349	2439686.97	1967 Jul 15 1118	Minuteman 1B	-	755	Mk 11B RV	R&D GIN BABY I	GIN BABY I	-	V	LF02	-	-	900?	-	-
1967-S348	2439686.50	1967 Jul 15	Minuteman 2	-	2337 (2095?)	Mk 12 RV	R&D	BUSY JOKER	-	V	LF21	-	-	900?	-	-
1967-S350	2439691.88	1967 Jul 20 0900	Minuteman 2	-	2370	Mk 11B RV	ST OLYMPIC TRIALS 3	OLYMPIC TRIALS 3	-	V	LF22	-	-	900?	-	-
1967-S373	2439710.50	1967 Aug 8	Minuteman 1B	-	1212	Mk 11 RV	FOT GB45	GLOWING BRIGHT 45	-	V	LF09	-	-	900?	-	-
1967-S389	2439720.39	1967 Aug 17 2118:59	Minuteman 2	-	466	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	-	ASC
1967-S419	2439740.36	1967 Sep 6 2035	Minuteman 1B	-	1222	Mk 11 RV	FOT GB46	GLOWING BRIGHT 46	-	V	LF03	-	-	900?	-	-
1967-S442	2439755.60	1967 Sep 22 0228	Minuteman 1B	-	831	Mk 11 RV	FOT GB47	GLOWING BRIGHT 47	-	V	LF07	-	-	900?	-	-
1967-S451	2439760.58	1967 Sep 27 0200	Minuteman 1B	-	1151	Mk 11 RV	FOT GB48	GLOWING BRIGHT 48	-	V	LF09	-	-	900?	-	-
1967-S499	2439784.50	1967 Oct 21	Minuteman 2	-	2445	Mk 11B RV	ST OLYMPIC TRIALS 4	OLYMPIC TRIALS 4	-	V	LF24	-	-	900?	-	-
1967-S521	2439797.85	1967 Nov 3 0830	Minuteman 1B	-	820	Mk 11B RV	R&D GIN BABY II	GIN BABY II	-	V	LF02	-	-	900?	-	-
1967-S525	2439801.54	1967 Nov 7 0056:08	Minuteman 2	-	467	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	-	-
1967-S531	2439809.10	1967 Nov 14 1420	Minuteman 1B	-	1215	Mk 11 RV	FOT GB51	GLOWING BRIGHT 51	-	V	LF07	-	-	900?	-	-
1967-S532	2439809.14	1967 Nov 14 1522	Minuteman 1B	-	1028	Mk 11 RV	FOT GB52	GLOWING BRIGHT 52	-	V	LF09	-	-	900?	-	-
1967-S540	2439811.50	1967 Nov 17	Minuteman 2	-	2386	Mk 11B RV	R&D GIN BABY III	GIN BABY III	-	V	LF05	-	-	900?	-	-
1967-S543	2439816.09	1967 Nov 21 1412	Minuteman 2	-	2071	Mk 11 RV?	R&D/MOD	BUSY LOBBY	-	V	LF08	-	-	900?	-	-
1967-S556	2439825.50	1967 Dec 1	Minuteman 1B	-	1183	Mk 11 RV	FOT GB50	GLOWING BRIGHT 50	-	V	LF03	-	-	900?	-	-
1967-S574	2439833.38	1967 Dec 8 2103	Minuteman 1B	-	948	Mk 11B RV	R&D GIN BABY IV	GIN BABY IV	-	V	LF02	-	-	900?	-	-
1967-S587	2439842.50	1967 Dec 18	Minuteman 1B	-	1114	Mk 11 RV	FOT GT01B (GLORY TRIP)	GLORY TRIP 01B	-	V	LF07	-	-	900?	-	-
1967-S592	2439846.52	1967 Dec 22 0035	Minuteman 1B	-	1437	Mk 11 RV	FOT GT02B	GLORY TRIP 02B	-	V	LF03	-	-	900?	-	-
1967-S593	2439846.57	1967 Dec 22 0145	Minuteman 1B	-	1288	Mk 11 RV	FOT GT03B	GLORY TRIP 03B	-	V	LF09	-	-	900?	-	-
1967-S595	2439847.50	1967 Dec 23	Minuteman 2	-	2457	Mk 11B RV	ST OLYMPIC TRIALS 5	OLYMPIC TRIALS 5	-	V	LF24	-	-	900?	-	-
1967-S596	2439852.95	1967 Dec 28 1055	Minuteman 2	-	2435	Mk 11B RV	R&D GIN BABY V	GIN BABY V	-	V	LF05	-	-	900?	9300?	-
1968-S78	2439865.92	1968 Jan 10 0958	Minuteman 2	-	2437	Mk 11 RV?	ST OLYMPIC TRIALS 6	OLYMPIC TRIALS 6	-	V	LF25	-	-	900?	-	KMR
1968-S83	2439871.50	1968 Jan 16	Minuteman 1B	-	(64-011)	Mk 11 RV	ST Cold/Heat Soak 3?	GLOWING SAND	-	V	LF06	-	-	900?	-	KMR
1968-S100	2439880.50	1968 Jan 25	Minuteman 2	-	2448F	Mk 11B RV	ST OLYMPIC TRIALS 7	OLYMPIC TRIALS 7	-	V	LF22	-	-	900?	-	KMR
1968-S112	2439888.93	1968 Feb 2 1017	Minuteman 2	-	2464	Mk 11B RV	ST OLYMPIC TRIALS 8	OLYMPIC TRIALS 8	-	V	LF24	-	-	900?	-	KMR
1968-S113	2439889.04	1968 Feb 2 1255	Minuteman 1B	-	1274	Mk 11 RV	ST PACER KITE 1	OLYMPIC TRIALS B-1	-	V	LF09	-	-	10?	-	(KMR)
1968-S125	2439893.64	1968 Feb 7 0320:21	Minuteman 2	-	468	Mk 12 RV	R&D	-	-	CC	LC32B	-	-	900?	9000?	ASC
1968-S129	2439896.99	1968 Feb 10 1142	Minuteman 2	-	2307	Mk 12 RV	R&D/MOD	-	-	V	LF08	-	-	900?	-	-
1968-S225	2439944.50	1968 Mar 29	Minuteman 2	-	2522	Mk 11B RV	ST OLYMPIC TRIALS 9	OLYMPIC TRIALS 9	-	V	LF26	-	-	900?	-	KMR
1968-S261	2439956.86	1968 Apr 10 0839	Minuteman 1B	-	1411	Mk 11A RV	ST PACER KITE 2	OLYMPIC TRIALS B-2	-	V	LF03	-	-	900?	-	KMR
1968-S273	2439970.63	1968 Apr 24 0305	Minuteman 1B	-	892	Mk 11 RV	ST Cold/Heat Soak 4?	GLASS POLE	-	V	LF06	-	-	900?	-	KMR
1968-S297	2439976.50	1968 Apr 30	Minuteman 2	-	2503	Mk 11 RV?	DASO GIANT BLADE 1	GIANT BLADE 1	-	V	LF22	-	-	900?	-	ENW
1968-S336	2439998.93	1968 May 22 1020	Minuteman 1B	-	1359	Mk 11A RV	ST PACER KITE 3	OLYMPIC TRIALS B-3	-	V	LF03	-	-	900?	-	KMR
1968-S340	2439999.72	1968 May 23 0510	Minuteman 1B	-	1015	Mk 11 RV	ST Cold/Heat Soak 5?	OLD FAITHFUL	-	V	LF06	-	-	900?	-	KMR
1968-S393	2440046.26	1968 Jul 8 1819	Minuteman 2	-	FTM-2589	Mk 11 RV?	DASO GIANT FIST 1	GIANT FIST 1	-	V	LF04	-	-	900?	-	-
1968-S396	2440049.88	1968 Jul 12 0900	Minuteman 1B	-	1084 (343?)	Mk 11A RV	ST OLYMPIC TRIALS B-4	OLYMPIC TRIALS B-4	-	V	LF03	-	-	900?	-	KMR
1968-S459	2440085.35	1968 Aug 16 2030:02	Minuteman 3	-	FTM-201	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	900?	-	ASC
1968-S485	2440101.25	1968 Sep 1 1800	Minuteman 2	-	1442	Mk 11 RV?	ST GIANT BOOST	SHORT ROUND	-	V	LF21	-	-	1?	-	V
1968-S550	2440154.35	1968 Oct 24 2030:03	Minuteman 3	-	FTM-202	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	900?	-	ASC
1968-S552	2440154.21	1968 Oct 24 1700?	Minuteman 2	-	FTM-2191	Mk 11 RV?	DASO GIANT FIST 2A	GIANT FIST 2A	-	V	LF04	-	-	900?	-	-
1968-S557	2440159.85	1968 Oct 30 0823	Minuteman 1B	-	1136	Mk 11 RV	ST OLYMPIC T. B-5	OLYMPIC TRIALS B-5	-	V	LF09	-	-	900?	-	KMR
1968-S579	2440174.01	1968 Nov 13 1210	Minuteman 2	-	2537	Mk 11 RV?	DASO GIANT FIST 4	GIANT FIST 4	-	V	LF05	-	-	900?	-	KMR
1968-S600	2440182.27	1968 Nov 21 1828	Minuteman 2	-	2556	Mk 11 RV?	DASO GIANT BLADE 2	GIANT BLADE 2	-	V	LF25	-	-	900?	-	ENW
1968-S632	2440197.50	1968 Dec 7	Minuteman 1B	-	1375	Mk 11A RV	ST OLYMPIC T. B-6	OLYMPIC TRIALS B-6	-	V	LF09	-	-	900?	-	KMR
1968-S638	2440200.50	1968 Dec 10	Minuteman 1B	-	943	Mk 11 RV	ST Cold/Heat Soak 6	OLD FAITHFUL 2	-	V	LF06	-	-	900?	-	-
1968-S655	2440211.10	1968 Dec 20 1430	Minuteman 2	-	2418	Mk 11B RV	ST Mk 1A Penaids Test 1?	-	-	V	LF08	-	-	900?	-	KMR
1969-S76	2440242.90	1969 Jan 21 0940	Minuteman 1B	-	1089	Mk 11A RV	ST OLYMPIC T. B-7	OLYMPIC TRIALS B-7	-	V	LF09	-	-	1300?	-	-
1969-S90	2440250.94	1969 Jan 29 1034	Minuteman 2	-	2504	Mk 11 RV?	ST SAMSO Stage 3 Test	SPEC TEST 1	-	V	LF02	-	-	1300?	-	-
1969-S91	2440251.08	1969 Jan 29 1352	Minuteman 2	-	2240	Mk 11B RV	ST Mk 1A Penaids Test 2?	-	-	V	LF08	-	-	1300?	-	-
1969-S92	2440251.50	1969 Jan 30	Minuteman 1B	-	874	Mk 11 RV	FOT GT32B	GLORY TRIP 32B	-	V	LF03	-	-	1300?	-	-
1969-S104	2440254.85	1969 Feb 2 0825	Minuteman 2	-	FTM-2208	Mk 11C RV	DASO GIANT FIST 5	GIANT FIST 5	-	V	LF04	-	-	1300?	-	-
1969-S146	2440272.93	1969 Feb 20 1015	Minuteman 1B	-	1220	Mk 11A RV	ST OLYMPIC T. B-8	OLYMPIC TRIALS B-8	-	V	LF09	-	-	1300?	-	-
1969-S167	2440287.85	1969 Mar 7 0820	Minuteman 2	-	2252	Mk 11C RV	ST SAMSO Stage 3 Test?	SPEC TEST 2	-	V	LF05	-	-	1300?	-	-
1969-S182	2440292.97	1969 Mar 12 1120	Minuteman 2	-	FTM-2642	Mk 11C RV	DASO GIANT FIST 3	GIANT FIST 3	-	V	LF04	-	-	1300?	-	-
1969-S214	2440303.08	1969 Mar 22 1350	Minuteman 2	-	2415	Mk 11B RV	ST Mk 1A Penaids Test 3?	-	-	V	LF21	-	-	1300?	-	-
1969-S216	2440304.50	1969 Mar 24	Minuteman 1B	-	791	Mk 11 RV	FOT GT33B	GLORY TRIP 33B	-	V	LF07	-	-	1300?	-	-
1969-S218	2440306.29	1969 Mar 25 1900	Minuteman 1B	-	1308	Mk 11 RV	FOT GT34B	GLORY TRIP 34B	-	V	LF03	-	-	1300?	-	-
1969-S219	2440307.37	1969 Mar 26 2046:21	Minuteman 3	-	FTM-203	Mk 12 RV x3	R&D	-	-	CC	LC31B	-	-	1300?	-	ASC
1969-S260	2440322.87	1969 Apr 11 0855	Minuteman 3	-	FTM-301	Mk 12 RV x3	R&D	-	-	V	LF02	-	-	1300?	-	KMR
1969-S271	2440327.90	1969 Apr 16 0935	Minuteman 2	-	2339	Mk 11 RV?	OT GT19M	GLORY TRIP 19M	-	V	LF05	-	-	1300?	-	-
1969-S279	2440330.29	1969 Apr 18 1851	Minuteman 2	-	2287	SST M-3	ST 3	SPEC TEST 3	-	V	LF25	-	-	1300?	-	-
1969-S290	2440334.34	1969 Apr 22 2015:01	Minuteman 3	-	FTM-204	Mk 12 RV x 3	R&D	-	-	CC	LC31B	-	-	1300?	-	ASC
1969-S292	2440335.48	1969 Apr 23 2330	Minuteman 1B	-	1090	Mk 11 RV	FOT GT35B	GLORY TRIP 35B	-	V	LF07	-	-	1300?	-	-
1969-S297	2440337.21	1969 Apr 25 1700	Minuteman 2	-	2096	Mk 11 RV?	OT GT5F	GLORY TRIP 5F	-	V	LF22	-	-	1300?	-	-
1969-S315	2440343.86	1969 May 2 0842	Minuteman 2	-	2505	Mk 11 RV?	ST Mk 1A Penaids Test 4?	-	-	V	LF21	-	-	1300?	-	-
1969-S334	2440361.50	1969 May 20	Minuteman 2	-	(64-15525)	Mk 11 RV?	OT GT9F	GLORY TRIP 9F	-	V	LF26	-	-	1300?	-	-
1969-S343	2440369.37	1969 May 27 2055:13	Minuteman 3	-	FTM-205	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	ASC?
1969-S347	2440370.33	1969 May 28 2000	Minuteman 2	-	2131	Mk 11 RV?	OT GT7F	GLORY TRIP 7F	-	V	LF25	-	-	1300?	-	-
1969-S349	2440370.98	1969 May 29 1135	Minuteman 3	-	FTM-302	Mk 12 RV x 2	R&D	-	-	V	LF02	-	-	1300?	-	-
1969-S360	2440384.05	1969 Jun 11 1315	Minuteman 2	-	2059	Mk 11 RV?	OT GT11F	GLORY TRIP 11F	-	V	LF24	-	-	1300?	-	-
1969-S367	2440390.94	1969 Jun 18 1030	Minuteman 1B	-	1285	Mk 11 RV	FOT GT37B	GLORY TRIP 37B	-	V	LF07	-	-	1300?	-	-
1969-S371	2440392.50	1969 Jun 20	Minuteman 2	-	2320	Mk 11B RV	ST Mk 1A Penaids Test 5?	-	-	V	LF21	-	-	1300?	-	-
1969-S380	2440398.35	1969 Jun 25 2030:00	Minuteman 3	-	FTM-206	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	ASC
1969-S385	2440403.69	1969 Jul 1 0436	Minuteman 1B	-	1282	Mk 11 RV	FOT GT38B	GLORY TRIP 38B	-	V	LF03	-	-	1300?	-	-
1969-S390	2440404.88	1969 Jul 2 0900	Minuteman 1B	-	1279	Mk 11A RV	ST OLYMPIC TR. B-9	OLYMPIC TRIALS B-9	-	V	LF09	-	-	1300?	-	-
1969-S394	2440411.09	1969 Jul 8 1405	Minuteman 2	-	2062	Mk 11 RV?	OT GT14F	GLORY TRIP 14F	-	V	LF25	-	-	1300?	-	-
1969-S408	2440418.08	1969 Jul 15 1400	Minuteman 2	-	2012	Mk 11 RV?	OT GT13F	GLORY TRIP 13F	-	V	LF26	-	-	1300?	-	-
1969-S409	2440418.13	1969 Jul 15 1503	Minuteman 2	-	(64-15533)	Mk 11 RV?	OT GT12F	GLORY TRIP 12F	-	V	LF22	-	-	1300?	-	-
1969-S413	2440426.33	1969 Jul 23 1950	Minuteman 1B	-	1140	Mk 11 RV	FOT GT41B	GLORY TRIP 41B	-	V	LF07	-	-	1300?	-	-
1969-S417	2440427.87	1969 Jul 25 0855	Minuteman 2	-	2357	Mk 11B RV	ST Mk 1A Penaids test 6?	-	-	V	LF08	-	-	1300?	-	-
1969-S434	2440434.38	1969 Jul 31 2109:18	Minuteman 3	-	FTM-207	Mk 12 RV x 3	R&D	-	-	CC	LC31B	-	-	1300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S458	2440455.68	1969 Aug 22 0420	Minuteman 2	-	2108	Mk 11B RV	OT GT17F	GLORY TRIP 17F	-	V	LF24	-	-	1300?	-	-
1969-S468	2440460.61	1969 Aug 27 0235	Minuteman 2	-	2065	Mk 11B RV	OT GT15F	GLORY TRIP 15F	-	V	LF22	-	-	1300?	-	-
1969-S469	2440461.50	1969 Aug 28	Minuteman 1B	-	1358	Mk 11 RV	FOT GT42B	GLORY TRIP 42B	-	V	LF03	-	-	1300?	-	-
1969-S479	2440467.60	1969 Sep 3 0220	Minuteman 2	-	2145	Mk 11 RV?	OT GT20F	GLORY TRIP 20F	-	V	LF26	-	-	1300?	-	-
1969-S488	2440475.55	1969 Sep 11 0105	Minuteman 1B	-	1137	Mk 11 RV	FOT GT36B	GLORY TRIP 36B	-	V	LF07	-	-	1300?	-	-
1969-S499	2440477.50	1969 Sep 13	Minuteman 3	-	FTM-303	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	-
1969-S509	2440484.85	1969 Sep 20 0830	Minuteman 1B	-	1276	Mk 11 RV	ST OLYMPIC TR. B-10	OLYMPIC TRIALS B-10	-	V	LF09	-	-	1300?	-	-
1969-S513	2440487.50	1969 Sep 23	Minuteman 1B	-	STF-1	SSTTP 1	SSTTP 1	MR CLEAN	-	V	LF06	-	-	100?	-	(KMR)
1969-S515	2440488.34	1969 Sep 23 2010:26	Minuteman 3	-	FTM-208	Mk 12 RV x 3	R&D	-	-	CC	LC31B	-	-	1300?	-	-
1969-S516	2440488.50	1969 Sep 24	Minuteman 2	-	2129	Mk 11 RV?	OT GT21F	GLORY TRIP 21F	-	V	LF25	-	-	1300?	-	-
1969-S527	2440495.50	1969 Oct 1	Minuteman 2	-	2510	Mk 11 RV?	ST	-	-	V	LF21	-	-	1300?	-	-
1969-S530	2440497.54	1969 Oct 3 0100	Minuteman 1B	-	1173	Mk 11 RV	FOT GT44B	GLORY TRIP 44B	-	V	LF03	-	-	1300?	-	-
1969-S540	2440508.42	1969 Oct 13 2205	Minuteman 2	-	2054	Mk 11 RV?	OT GT22F	GLORY TRIP 22F	-	V	LF24	-	-	1300?	-	-
1969-S545	2440509.97	1969 Oct 15 1116	Minuteman 3	-	FTM-305	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	KMR
1969-S565	2440515.50	1969 Oct 21	Minuteman 1B	-	1134	Mk 11 RV	FOT GT45B	GLORY TRIP 45B	-	V	LF07	-	-	1300?	-	-
1969-S587	2440525.50	1969 Oct 31	Minuteman 3	-	FTM-304	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	-
1969-S621	2440532.33	1969 Nov 6 2000:02	Minuteman 3	-	FTM-209	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1969-S620	2440532.79	1969 Nov 7 0700	Minuteman 1B	-	1225	Mk 11 RV	ST OLYMPIC TR. B-11	OLYMPIC TRIALS B-11	-	V	LF09	-	-	1300?	-	-
1969-S631	2440544.50	1969 Nov 19	Minuteman 2	-	2508	Mk 11 RV	ST	-	-	V	LF21	-	-	1300?	-	-
1969-S634	2440551.73	1969 Nov 26 0527	Minuteman 1B	-	2063	Mk 11 RV	FOT GT49B	GLORY TRIP 49B	-	V	LF03	-	-	1300?	-	-
1969-A202	2440560.33	1969 Dec 4 2000:02	Minuteman 3	-	FTM-210	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	0?	-	-
1969-S647	2440561.44	1969 Dec 5 2240	Minuteman 1B	-	1068	Mk 11 RV	FOT GT50B	GLORY TRIP 50B	-	V	LF07	-	-	1300?	-	-
1969-S677	2440571.50	1969 Dec 16	Minuteman 1B	-	STF-2	SSTTP 2 (Mod Mk 11)	SSTTP 2	MR CLEAN II	-	V	LF06	-	-	1300?	-	-
1970-S145	2440643.56	1970 Feb 26 0125	Minuteman 1B	-	855	Mk 11 RV	FOT GT53B	GLORY TRIP 53B	-	V	LF07	-	-	1300?	-	-
1970-S188	2440650.63	1970 Mar 5 0305	Minuteman 1B	-	782	Mk 11 RV	FOT GT54B	GLORY TRIP 54B	-	V	LF09	-	-	1300?	-	-
1970-S239	2440655.50	1970 Mar 10	Minuteman 1B	-	1180	Mk 11 RV	FOT GT62B	GLORY TRIP 62B	-	V	LF03	-	-	1300?	-	-
1970-S241	2440657.46	1970 Mar 11 2300	Minuteman 2	-	2424	Mk 11 RV	OT GT24F	GLORY TRIP 24F	-	V	LF22	-	-	1300?	-	-
1970-A30	2440659.35	1970 Mar 13 2030:02	Minuteman 3	-	FTM-212	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	0?	-	-
1970-A31	2440660.25	1970 Mar 14 1800:15	Minuteman 2	-	Mobile Feasibility	Ballast RV	R&D Sheltered Base	-	-	CC	LC31A/Truck	-	-	1	-	-
1970-S259	2440668.50	1970 Mar 23	Minuteman 1B	-	1094	Mk 11 RV	FOT GT63B	GLORY TRIP 63B	-	V	LF07	-	-	1300?	-	-
1970-S264	2440671.88	1970 Mar 26 0900	Minuteman 2	-	2656	Mk 11C RV	OT GT25M	GLORY TRIP 25M	-	V	LF05	-	-	1300?	-	-
1970-S275	2440676.50	1970 Mar 31	Minuteman 2	-	2594	Mk 11 RV?	OT GT23F	GLORY TRIP 23F	-	V	LF26	-	-	1300?	-	-
1970-S277	2440678.50	1970 Apr 2	Minuteman 3	-	FTM-309	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	-
1970-S282	2440680.35	1970 Apr 3 2030:07	Minuteman 3	-	FTM-213	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1970-S312	2440698.54	1970 Apr 22 0101	Minuteman 2	-	2474	Mk 11 RV?	OT GT48F	GLORY TRIP 48F	-	V	LF24	-	-	1300?	-	-
1970-S323	2440699.07	1970 Apr 22 1345	Minuteman 3	-	FTM-308	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	-
1970-S332	2440701.50	1970 Apr 25	Minuteman 2	-	2588	Mk 11 RV?	OT GT57F (DSDD Targ)	GLORY TRIP 57F	-	V	LF22	-	-	1300?	-	-
1970-S337	2440706.17	1970 Apr 29 1602:06	Minuteman 3	-	FTM-214	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1970-S342	2440711.66	1970 May 5 0350	Minuteman 1B	-	1330	Mk 11A RV	FOT GT64B	GLORY TRIP 64B	-	V	LF07	-	-	1300?	-	-
1970-S347	2440714.83	1970 May 8 0749	Minuteman 3	-	FTM-310	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	KMR
1970-S360	2440728.26	1970 May 21 1816	Minuteman 2	-	2486	Mk 11 RV?	OT GT55F	GLORY TRIP 55F	-	V	LF25	-	-	1300?	-	-
1970-S373	2440733.86	1970 May 27 0840	Minuteman 1B	-	1404	Mk 11A RV	FOT GT65B	GLORY TRIP 65B	-	V	LF03	-	-	1300?	-	OENO
1970-S374	2440734.17	1970 May 27 1559:42	Minuteman 3	-	FTM-215	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1970-S391	2440746.46	1970 Jun 8 2300	Minuteman 1B	-	1242	Mk 11 RV	FOT GT72B	GLORY TRIP 72B	-	V	LF07	-	-	1300?	-	-
1970-S395	2440754.83	1970 Jun 17 0800	Minuteman 3	-	FTM-312	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	-
1970-S398	2440757.05	1970 Jun 19 1315	Minuteman 2	-	2478	Mk 11C RV	OT GT28M	GLORY TRIP 28M	-	V	LF05	-	-	1300?	-	-
1970-S399	2440757.50	1970 Jun 20	Minuteman 2	-	2338	Mk 11C RV	OT GT27M	GLORY TRIP 27M	-	V	LF04	-	-	1300?	-	-
1970-S402	2440761.69	1970 Jun 24 0433	Minuteman 3	-	FTM-313	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	KMR
1970-S404	2440763.47	1970 Jun 25 2310	Minuteman 1B	-	1413	Mk 11A RV	FOT GT73B	GLORY TRIP 73B	-	V	LF03	-	-	1300?	-	-
1970-S406	2440763.50	1970 Jun 26	Minuteman 2	-	2559	Mk 11 RV?	OT GT59F	GLORY TRIP 59F	-	V	LF22	-	-	1300?	-	-
1970-S423	2440777.50	1970 Jul 10	Minuteman 2	-	-	Mk 11 RV?	OT GT66F	GLORY TRIP 66F	-	V	LF24	-	-	1300?	-	-
1970-S428	2440781.50	1970 Jul 14	Minuteman 1B	-	-	Mk 11 RV	FOT GT71B-2	GLORY TRIP 71B-2	-	V	LF09	-	-	1300?	-	-
1970-S436	2440785.50	1970 Jul 18	Minuteman 2	-	-	Mk 11 RV?	OT GT30M	GLORY TRIP 30M	-	V	LF04	-	-	1300?	-	-
1970-S438	2440790.50	1970 Jul 23	Minuteman 1B	-	970	SSTTP	SSTTP M1-3	SSTTP M1-3	-	V	LF06	-	-	1300?	-	KMR
1970-S452	2440796.47	1970 Jul 28 2317	Minuteman 3	-	FTM-5008	Mk 12 RV x 3	R&D	-	-	V	LF02	-	-	1300?	-	KMR
1970-S460	2440801.50	1970 Aug 3	Minuteman 2	-	-	Mk 11 RV?	OT GT61F	GLORY TRIP 61F	-	V	LF25	-	-	1300?	-	-
1970-S463	2440803.29	1970 Aug 4 1900	Minuteman 2	-	-	ERCS	ERCS GT16L	GLORY TRIP 16L	-	V	LF05	-	-	1300?	-	BOA
1970-S480	2440810.46	1970 Aug 11 2300	Minuteman 2	-	-	Mk 11 RV?	OT GT06F	GLORY TRIP 06F	-	V	LF26	-	-	1300?	-	-
1970-S485	2440812.86	1970 Aug 14 0835	Minuteman 2	-	-	Mk 11 RV?	OT GT31M	GLORY TRIP 31M	-	V	LF04	-	-	1300?	-	-
1970-S490	2440819.77	1970 Aug 21 0625	Minuteman 1B	-	-	Mk 11 RV	FOT GT74B	GLORY TRIP 74B	-	V	LF09	-	-	1300?	-	-
1970-S492	2440824.84	1970 Aug 26 0805	Minuteman 2	-	-	Mk 11 RV?	OT GT43M	GLORY TRIP 43M	-	V	LF05	-	-	1300?	-	-
1970-S493	2440826.75	1970 Aug 28 0600	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 01M	OLD FOX 01M	-	V	LF08	-	-	1300?	-	-
1970-S494	2440827.64	1970 Aug 29 0315	Minuteman 1B	-	-	SSTTP	SSTTP M1-4	-	-	V	LF06	-	-	1300?	-	KMR
1970-S502	2440832.59	1970 Sep 3 0205	Minuteman 1B	-	-	Mk 11 RV	FOT GT75B	GLORY TRIP 75B	-	V	LF03	-	-	1300?	-	-
1970-S518	2440844.48	1970 Sep 14 2330	Minuteman 2	-	-	Mk 11 RV?	OT GT67F	GLORY TRIP 67F	-	V	LF25	-	-	1300?	-	-
1970-S520	2440846.31	1970 Sep 16 1930:00	Minuteman 3	-	STM-1	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	8000	-
1970-S521	2440847.25	1970 Sep 17 1800	Minuteman 2	-	-	Mk 11 RV?	OT GT68F	GLORY TRIP 68F	-	V	LF26	-	-	1300?	-	-
1970-S533	2440854.50	1970 Sep 25	Minuteman 1B	-	-	Mk 11 RV	OT GT76B	GLORY TRIP 76B	-	V	LF07	-	-	1300?	-	-
1970-S534	2440855.81	1970 Sep 26 0720	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 02M	OLD FOX 02M	-	V	LF02	-	-	1300?	-	-
1970-S547	2440862.50	1970 Oct 3	Minuteman 1B	-	-	SSTTP	SSTTP M1-27	-	-	V	LF06	-	-	1300?	-	KMR
1970-S548	2440862.50	1970 Oct 3	Minuteman 2	-	-	Mk 11 RV?	OT GT46M	GLORY TRIP 46M	-	V	LF04	-	-	1300?	-	-
1970-S551	2440865.46	1970 Oct 5 2300	Minuteman 1B	-	-	Mk 11 RV	FOT GT77B	GLORY TRIP 77B	-	V	LF09	-	-	1300?	-	-
1970-S556	2440866.97	1970 Oct 7 1115	Minuteman 2	-	-	Mk 11 RV?	OT GT47M	GLORY TRIP 47M	-	V	LF05	-	-	1300?	-	-
1970-S576	2440882.44	1970 Oct 22 2235	Minuteman 2	-	-	Mk 11 RV?	OT GT69F (Salvo)	GLORY TRIP 69F	-	V	LF25	-	-	1300?	-	-
1970-S577	2440882.44	1970 Oct 22 2235	Minuteman 2	-	-	Mk 11 RV?	OT GT70F (Salvo)	GLORY TRIP 70F	-	V	LF26	-	-	1300?	-	-
1970-S582	2440885.50	1970 Oct 26	Minuteman 1B	-	-	Mk 11 RV	FOT GT78B	GLORY TRIP 78B	-	V	LF03	-	-	1300?	-	-
1970-S590	2440893.46	1970 Nov 2 2305	Minuteman 2	-	-	Mk 11 RV?	OT GT51M	GLORY TRIP 51M	-	V	LF04	-	-	1300?	-	-
1970-S591	2440894.88	1970 Nov 4 0905	Minuteman 3	-	STM-1W	Mk 12 RV x 3	R&D STM-1W	STM-1W	-	V	LF21	-	-	1300?	-	KMR
1970-S592	2440896.58	1970 Nov 6 0200	Minuteman 2	-	-	Mk 11 RV?	OT GT52M	GLORY TRIP 52M	-	V	LF05	-	-	1300?	-	-
1970-S598	2440898.83	1970 Nov 8 0750?	Minuteman 1B	-	-	Mk 11 RV	FOT GT79B	GLORY TRIP 79B	-	V	LF09	-	-	1300?	-	-
1970-S604	2440904.50	1970 Nov 14	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 03M	OLD FOX 03M	-	V	LF08	-	-	1300?	-	-
1970-S633	2440923.25	1970 Dec 2 1802	Minuteman 3	-	STM-3	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1970-S635	2440927.91	1970 Dec 7 0950	Minuteman 2	-	-	Mk 11C RV	OT GT56M	GLORY TRIP 56M	-	V	LF04	-	-	1300?	-	-
1970-S644	2440935.15	1970 Dec 14 1530:38	Minuteman 3	-	STM-2	Mk 12 RV x 3	R&D	-	-	CC	LC32B	-	-	1300?	-	-
1970-S652	2440938.54	1970 Dec 18 0100	Minuteman 2	-	-	Mk 11 RV?	OT GT58M	GLORY TRIP 58M	-	V	LF05	-	-	1300?	-	-
1970-S661	2440944.58	1970 Dec 24 0155	Minuteman 1B	-	-	SSTTP	SSTTP M1-12	-	-	V	LF06	-	-	1300?	-	KMR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S56	2440962.50	1971 Jan 11	Minuteman 1B	-	-	SSTTP	SSTTP M1-30	-	-	V	LF06	-	-	1300?	-	KMR
1971-S95	2440978.91	1971 Jan 27 0945	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 04M	OLD FOX 04M	-	V	LF08	-	-	1300?	-	-
1971-S97	2440980.59	1971 Jan 29 0210	Minuteman 1B	-	-	Mk 5 RV	FOT GT90B	GLORY TRIP 90B	-	V	LF09	-	-	1300?	-	-
1971-S112	2440985.50	1971 Feb 3	Minuteman 2	-	-	Mk 11 RV?	FOT GT101F	GLORY TRIP 101F	-	V	LF24	-	-	1300?	-	-
1971-S113	2440987.72	1971 Feb 5 0520	Minuteman 2	-	-	Mk 11 RV?	OT GT60M	GLORY TRIP 60M	-	V	LF04	-	-	1300?	-	-
1971-S119	2440991.46	1971 Feb 8 2300	Minuteman 1B	-	-	Mk 11 RV	FOT GT91B	GLORY TRIP 91B	-	V	LF07	-	-	1300?	-	-
1971-S123	2440999.81	1971 Feb 17 0725	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 05M	OLD FOX 05M	-	V	LF02	-	-	1300?	-	-
1971-S128	2441005.50	1971 Feb 23	Minuteman 1B	-	-	SSTTP	SSTTP M1-28	-	-	V	LF06	-	-	1300?	-	KMR
1971-S130	2441007.58	1971 Feb 25 0200	Minuteman 2	-	-	Mk 11 RV?	FOT GT102F	GLORY TRIP 102F	-	V	LF25	-	-	1300?	-	-
1971-S134	2441009.50	1971 Feb 27	Minuteman 2	-	-	Mk 11 RV?	OT GT80M	GLORY TRIP 80M	-	V	LF04	-	-	1300?	-	-
1971-S140	2441012.50	1971 Mar 2	Minuteman 1B	-	-	Mk 11 RV	FOT GT92B-3	GLORY TRIP 92B-3	-	V	LF03	-	-	1300?	-	-
1971-S172	2441027.50	1971 Mar 17	Minuteman 1B	-	-	SSTTP	SSTTP M1-13	-	-	V	LF06	-	-	1300?	-	KMR
1971-S197	2441034.81	1971 Mar 24 0725	Minuteman 3	-	-	Mk 12 RV x 3	OT GT01GM	GLORY TRIP 01GM	-	V	LF08	-	-	1300?	-	-
1971-S221	2441042.86	1971 Apr 1 0840	Minuteman 2	-	-	Mk 11 RV?	OT GT82M	GLORY TRIP 82M	-	V	LF05	-	-	1300?	-	-
1971-S231	2441049.94	1971 Apr 8 1040	Minuteman 3	-	STM-2W	Mk 12 RV x 3	R&D	-	-	V	LF21	-	-	1300?	-	-
1971-S245	2441064.89	1971 Apr 23 0925	Minuteman 3	-	-	Mk 12 RV x 3	DASO OLD FOX 06F	OLD FOX 06F	-	V	LF26	-	-	1300?	-	-
1971-S251	2441067.50	1971 Apr 26	Minuteman 1B	-	-	Mk 11 RV	FOT GT93B	GLORY TRIP 93B	-	V	LF07	-	-	1300?	-	-
1971-S285	2441090.76	1971 May 19 0620	Minuteman 2	-	-	Mk 11 RV?	FOT GT105F	GLORY TRIP 105F	-	V	LF24	-	-	1300?	-	-
1971-S297	2441092.50	1971 May 21	Minuteman 2	-	-	Mk 11 RV?	OT GT83M	GLORY TRIP 83M	-	V	LF05	-	-	1300?	-	-
1971-S300	2441095.50	1971 May 24	Minuteman 2	-	-	Mk 11 RV?	FOT GT103F	GLORY TRIP 103F	-	V	LF22	-	-	1300?	-	-
1971-S302	2441098.79	1971 May 27 0656	Minuteman 3	-	-	Mk 12 RV x 3	OT GT02GM	GLORY TRIP 02GM	-	V	LF08	-	-	1300?	-	-
1971-S307	2441099.76	1971 May 28 0620	Minuteman 3	-	-	Mk 12 RV x 3	OT GT03GM	GLORY TRIP 03GM	-	V	LF02	-	-	1300?	-	-
1971-S321	2441106.50	1971 Jun 4	Minuteman 2	-	-	Mk 11 RV?	OT GT81M	GLORY TRIP 81M	-	V	LF04	-	-	1300?	-	-
1971-S327	2441114.12	1971 Jun 11 1455	Minuteman 3	-	STM-6W	Mk 12 RV x 3	R&D	-	-	V	LF21	-	-	1300?	-	KMR
1971-S332	2441120.50	1971 Jun 18	Minuteman 1B	-	-	Mk 11 RV	FOT GT94B	GLORY TRIP 94B	-	V	LF07	-	-	1300?	-	-
1971-S336	2441125.50	1971 Jun 23	Minuteman 2	-	-	Mk 11 RV?	OT GT84M	GLORY TRIP 84M	-	V	LF05	-	-	1300?	-	-
1971-S343	2441129.64	1971 Jun 27 0318	Minuteman 1B	-	-	SSTTP	SSTTP M1-14	-	-	V	LF06	-	-	1300?	-	KMR
1971-S359	2441140.50	1971 Jul 8	Minuteman 3	-	-	Mk 12 RV x 3	OT GT04GM	GLORY TRIP 04GM	-	V	LF02	-	-	1300?	-	-
1971-S361	2441144.96	1971 Jul 12 1100?	Minuteman 1B	-	-	Mk 11 RV	FOT GT95B	GLORY TRIP 95B	-	V	LF09	-	-	0	-	-
1971-S381	2441166.50	1971 Aug 3	Minuteman 1B	-	-	Mk 11 RV	FOT GT96B	GLORY TRIP 96B	-	V	LF07	-	-	1300?	-	-
1971-S382	2441167.92	1971 Aug 4 1000	Minuteman 2	-	-	Mk 11 RV?	FOT GT104F-1	GLORY TRIP 104F-1	-	V	LF25	-	-	1300?	-	-
1971-S384	2441170.03	1971 Aug 6 1250	Minuteman 2	-	-	Mk 11 RV?	OT GT85M	GLORY TRIP 85M	-	V	LF04	-	-	1300?	-	-
1971-S390	2441176.50	1971 Aug 13	Minuteman 2	-	-	Mk 11 RV?	OT GT87M	GLORY TRIP 87M	-	V	LF05	-	-	1300?	-	-
1971-S427	2441196.50	1971 Sep 2	Minuteman 2	-	-	Mk 11 RV?	OT GT29M	GLORY TRIP 29M	-	V	LF04	-	-	1300?	-	-
1971-S431	2441197.50	1971 Sep 3	Minuteman 3	-	-	Mk 12 RV x 3	OT GT05GM	GLORY TRIP 05GM	-	V	LF02	-	-	1300?	-	-
1971-S436	2441202.50	1971 Sep 8	Minuteman 1B	-	-	Mk 11 RV	FOT GT97B-1	GLORY TRIP 97B-1	-	V	LF07	-	-	1300?	-	-
1971-S439	2441204.96	1971 Sep 10 1100	Minuteman 2	-	-	Mk 11 RV?	OT GT89M	GLORY TRIP 89M	-	V	LF05	-	-	1300?	-	-
1971-S492	2441230.50	1971 Oct 6	Minuteman 2	-	-	Mk 11 RV?	OT GT86F	GLORY TRIP 86F	-	V	LF25	-	-	1300?	-	-
1971-S505	2441232.58	1971 Oct 8 0156	Minuteman 1B	-	-	SSTTP	SSTTP M2-2	-	-	V	LF06	-	-	1300?	-	KMR
1971-S524	2441239.88	1971 Oct 15 0905	Minuteman 3	-	-	Mk 12 RV x 3	OT GT06GM	GLORY TRIP 06GM	-	V	LF02	-	-	1300?	-	-
1971-S527	2441242.50	1971 Oct 18	Minuteman 1B	-	-	Mk 11 RV	FOT GT98B	GLORY TRIP 98B	-	V	LF09	-	-	1300?	-	-
1971-S533	2441245.18	1971 Oct 20 1616	Minuteman 3	-	STM-3W	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	KMR
1971-S536	2441246.57	1971 Oct 22 0140	Minuteman 2	-	-	ERCS	ERCS GT40L	GLORY TRIP 40L	-	V	LF05	-	-	1300?	-	BOA
1971-S561	2441273.79	1971 Nov 18 0700	Minuteman 3	-	-	Mk 12 RV x 3	OT GT07GM	GLORY TRIP 07GM	-	V	LF04	-	-	1300?	-	-
1971-S567	2441278.79	1971 Nov 23 0655	Minuteman 3	-	-	Mk 12 RV x 3	OT GT08GM	GLORY TRIP 08GM	-	V	LF02	-	-	1300?	-	-
1971-S569	2441279.76	1971 Nov 24 0615	Minuteman 3	-	(Chaser targ)	Mk 12 RV x 3	OT GT09GM	GLORY TRIP 09GM	-	V	LF05	-	-	1300?	-	-
1971-S578	2441288.66	1971 Dec 3 0345	Minuteman 1B	-	-	Mk 11 RV	FOT GT100B	GLORY TRIP 100B	-	V	LF09	-	-	1300?	-	-
1971-S598	2441295.54	1971 Dec 10 0100	Minuteman 1B	-	-	Mk 11 RV	FOT GT99B-1	GLORY TRIP 99B-1	-	V	LF03	-	-	1300?	-	-
1971-S607	2441300.50	1971 Dec 15	Minuteman 3	-	STM-4W	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	-
1971-S613	2441302.91	1971 Dec 17 0945	Minuteman 3	-	-	Mk 12 RV x 3	OT GT10GM	GLORY TRIP 10GM	-	V	LF04	-	-	1300?	-	-
1972-S51	2441342.98	1972 Jan 26 1125	Minuteman 3	-	-	Mk 12 RV x 3	OT GT11GM	GLORY TRIP 11GM	-	V	LF02	-	-	1300?	-	-
1972-S64	2441351.83	1972 Feb 4 0800?	Minuteman 3	-	-	Mk 12 RV x 3	OT GT12GM	GLORY TRIP 12GM	-	V	LF05	-	-	1300?	-	-
1972-S71	2441356.50	1972 Feb 9	Minuteman 3	-	-	Mk 12 RV x 3	OT GT13GM	GLORY TRIP 13GM	-	V	LF04	-	-	1300?	-	-
1972-S114	2441392.50	1972 Mar 16	Minuteman 1B	-	-	SSTTP	SSTTP M2-7	-	-	V	LF06	-	-	1300?	-	KMR
1972-S130	2441398.62	1972 Mar 22 0300	Minuteman 2	-	-	ERCS	ERCS GT200L	GLORY TRIP 200L	-	V	LF05	-	-	1300?	-	BOA
1972-S158	2441420.50	1972 Apr 13	Minuteman 2	-	-	Mk 11 RV?	OT GT88M	GLORY TRIP 88M	-	V	LF05	-	-	1300?	-	-
1972-S189	2441442.50	1972 May 5	Minuteman 1B	-	-	SSTTP	SSTTP M2-11	-	-	V	LF06	-	-	1300?	-	KMR
1972-S192	2441449.50	1972 May 12	Minuteman 2	-	-	Mk 11 RV?	FOT GT106M	GLORY TRIP 106M	-	V	LF05	-	-	1300?	-	-
1972-S212	2441469.10	1972 May 31 1420	Minuteman 3	-	PVM-1/FTM-5255	Mk 12 RV x 3	R&D	-	-	V	LF21	-	-	1300?	-	KMR
1972-S232	2441474.50	1972 Jun 6	Minuteman 3	-	-	Mk 12 RV x 3	OT GT15GM	GLORY TRIP 15GM	-	V	LF04	-	-	1300?	-	-
1972-S237	2441480.36	1972 Jun 11 2035	Minuteman 3	-	-	Mk 12 RV x 3	OT GT14GM	GLORY TRIP 14GM	-	V	LF02	-	-	1300?	-	-
1972-S238	2441482.24	1972 Jun 13 1745	Minuteman 2	-	-	Mk 11 RV?/OBLSS	OBL	GIANT PATRIOT 1	-	V	LF07	-	-	1300?	-	-
1972-S243	2441486.50	1972 Jun 18 0000	Minuteman 3	-	STM-5W	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	-
1972-S244	2441489.20	1972 Jun 20 1645?	Minuteman 2	-	-	Mk 11 RV?	FOT GT107M	GLORY TRIP 107M	-	V	LF05	-	-	1300?	-	-
1972-S270	2441513.50	1972 Jul 15	Minuteman 1B	-	-	SSTTP	SSTTP M2-15	-	-	V	LF06	-	-	1300?	-	KMR
1972-S272	2441524.72	1972 Jul 26 0510	Minuteman 2	-	Destruct test	OBLSS package	OBL	GIANT PATRIOT 2	-	V	LF07	-	-	21	25	V POR
1972-S276	2441531.50	1972 Aug 2	Minuteman 3	-	STM-7W	Mk 12 RV x 3	R&D	-	-	V	LF21	-	-	1300?	-	-
1972-S310	2441579.50	1972 Sep 19	Minuteman 3	-	-	Mk 12 RV x 3	OT GT16GB	GLORY TRIP 16GM	-	V	LF22	-	-	1300?	-	-
1972-S314	2441586.48	1972 Sep 25 2330	Minuteman 2	-	-	Mk 11 RV?	FOT GT108M	GLORY TRIP 108M	-	V	LF05	-	-	1300?	-	-
1972-S329	2441593.85	1972 Oct 3 0830	Minuteman 2	-	-	Mk 11 RV?	FOT GT109M	GLORY TRIP 109M	-	V	LF04	-	-	1300?	-	-
1972-S350	2441606.50	1972 Oct 16	Minuteman 3	-	-	Mk 12 RV x 3	OT GT17GB	GLORY TRIP 17GB	-	V	LF25	-	-	1300?	-	-
1972-S353	2441610.88	1972 Oct 20 0905	Minuteman 2	-	-	Mk 11 RV?	FOT GT110M	GLORY TRIP 110M	-	V	LF02	-	-	1300?	-	-
1972-S369	2441618.64	1972 Oct 28 0323	Minuteman 1B	-	-	HK-1	Army STP HK-1	XX-1	-	V	LF06	-	-	1300?	-	-
1972-S403	2441646.58	1972 Nov 25 0200	Minuteman 3	-	-	Mk 12 RV x 3	OT GT18GB	GLORY TRIP 18GB	-	V	LF22	-	-	1300?	-	-
1972-S413	2441656.61	1972 Dec 5 0235	Minuteman 3	-	First phase 2 OT	Mk 12 RV x 3	FOT GT41GM	GLORY TRIP 41GM	-	V	LF02	-	-	1300?	-	-
1972-S420	2441659.50	1972 Dec 8	Minuteman 1B	-	-	SSTTP	SSTTP M2-21	-	-	V	LF06	-	-	1300?	-	KMR
1972-S431	2441663.50	1972 Dec 12	Minuteman 3	-	-	Mk 12 RV x 3	OT GT19GB	GLORY TRIP 19GB	-	V	LF25	-	-	1300?	-	-
1972-S432	2441663.50	1972 Dec 12	Minuteman 3	-	-	Mk 12 RV x 3	OT GT20GB	GLORY TRIP 20GB	-	V	LF26	-	-	1300?	-	-
1972-S443	2441671.54	1972 Dec 20 0100	Minuteman 1B	-	-	HK-3	Army STP HK-3	XX-3	-	V	LF06	-	-	1300?	-	-
1972-S444	2441673.70	1972 Dec 22 0455	Minuteman 2	-	-	Mk 11 RV?	FOT GT111M	GLORY TRIP 111GM	-	V	LF07	-	-	1300?	-	-
1973-S39	2441713.58	1973 Jan 31 0150?	Minuteman 3	-	PVM-2	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	KMR
1973-S100	2441750.94	1973 Mar 9 1035	Minuteman 1B	-	FTM-1221	NTV-1 (Mk 12)	ABRES NTV-1 Nosetip	-	-	V	LF06	-	-	1300?	-	KMR?
1973-S151	2441790.68	1973 Apr 18 0425	Minuteman 2	-	-	Mk 11 RV?	FOT GT112M	GLORY TRIP 112GM	-	V	LF02	-	-	1300?	-	-
1973-S155	2441797.86	1973 Apr 25 0836	Minuteman 1B	-	FTM-1373	HK-2	Army STP HK-2	XX-2	-	V	LF03	-	-	1300?	-	-
1973-S157	2441799.64	1973 Apr 27 0323	Minuteman 3	-	-	Mk 12 RV x 3	OT GT21GB	GLORY TRIP 21GB	-	V	LF25	-	-	1300?	-	-
1973-S164	2441806.46	1973 May 3 2300	Minuteman 3	-	-	Mk 12 RV x 3	OT GT22GB	GLORY TRIP 22GB	-	V	LF22	-	-	1300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-S165	2441806.50	1973 May 4	Minuteman 1B	-	-	SSTTP	SSTTP M2-24	-	-	V	LF06	-	-	1300?	-	KMR
1973-S178	2441834.63	1973 Jun 1 0310	Minuteman 3	-	FTM-5376	Mk 12 RV x 3	PVM-4	-	-	V	LF09	-	-	1300?	-	KMR
1973-S195	2441841.63	1973 Jun 8 0308	Minuteman 1B	-	-	SSTTP	SSTTP M2-22	-	-	V	LF06	-	-	1300?	-	KMR
1973-S211	2441860.85	1973 Jun 27 0830	Minuteman 2	-	FTM-2644	Mk 11C RV	FOT GT114M	GLORY TRIP 114M	-	V	LF07	-	-	1300?	-	-
1973-S230	2441870.38	1973 Jul 6 2100	Minuteman 3	-	-	Mk 12 RV x 3	OT GT23GB	GLORY TRIP 23GB	-	V	LF25	-	-	1300?	-	-
1973-S243	2441884.54	1973 Jul 21 0100	Minuteman 1B	-	-	SSTTP	SSTTP M2-18	-	-	V	LF06	-	-	1300?	-	KMR
1973-S249	2441890.39	1973 Jul 26 2125	Minuteman 2	-	-	ERCS	ERCS GIANT MOON 4	GIANT MOON 4	-	V	LF05	-	-	1300?	-	BOA
1973-S264	2441896.50	1973 Aug 2	Minuteman 2	-	-	Mk 11 RV?	FOT GT113M	GLORY TRIP 113M	-	V	LF04	-	-	1300?	-	-
1973-S271	2441903.50	1973 Aug 9	Minuteman 1B	-	-	SSTTP	SSTTP M2-20	PVM-3	-	V	LF06	-	-	1300?	-	KMR
1973-S283	2441918.57	1973 Aug 24 0135	Minuteman 3	-	PVM-3	Mk 12 RV x 3	R&D	-	-	V	LF08	-	-	1300?	-	KMR
1973-S296	2441930.50	1973 Sep 5	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT43GM	GLORY TRIP 43GM	-	V	LF02	-	-	1300?	-	-
1973-S298	2441932.50	1973 Sep 7	Minuteman 1B	-	-	SSTTP	SSTTP M2-44	-	-	V	LF06	-	-	1300?	-	KMR
1973-S304	2441940.73	1973 Sep 15 0525	Minuteman 3	-	-	Mk 12 RV x 3	OT GT25GB	GLORY TRIP 25GB	-	V	LF26	-	-	1300?	-	-
1973-S314	2441951.65	1973 Sep 26 0335	Minuteman 2	-	-	Mk 11 RV?	FOT GT115M-1	GLORY TRIP 115M-1	-	V	LF04	-	-	1300?	-	-
1973-S337	2441958.77	1973 Oct 3 0630	Minuteman 2	-	-	Mk 11 RV?	FOT GT116M	GLORY TRIP 116M	-	V	LF07	-	-	1300?	-	-
1973-S379	2441989.52	1973 Nov 3 0030	Minuteman 1B	-	-	SSTTP	SSTTP M2-38	-	-	V	LF06	-	-	1300?	-	KMR
1973-S400	2442008.88	1973 Nov 22 0900	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT42GM-1	GLORY TRIP 42GM-1	-	V	LF04	-	-	1300?	-	-
1973-S411	2442016.54	1973 Nov 30 0100	Minuteman 1B	-	-	SSTTP	SSTTP M2-25	-	-	V	LF06	-	-	1300?	-	KMR
1973-S435	2442027.50	1973 Dec 11	Minuteman 1B	-	-	HK-4	Army STP HK-4	XX-4	-	V	LF03	-	-	1300?	-	KMR?
1973-S439	2442030.50	1973 Dec 14	Minuteman 1B	-	-	SSTTP	SSTTP M2-20A	EPCO	-	V	LF06	-	-	1300?	-	KMR
1973-S446	2442038.84	1973 Dec 22 0805	Minuteman 3	-	STM-8W	Mk 12 RV x 3	R&D	STM-8W	-	V	LF08	-	-	1300?	-	-
1974-S70	2442070.60	1974 Jan 23 0230	Minuteman 1B	-	-	SSTTP	SSTTP M2-28	-	-	V	LF06	-	-	1300?	-	KMR
1974-S78	2442074.08	1974 Jan 26 1400?	Minuteman 3	-	-	Mk 12 RV x 3	OT GT24GB-1/SL Targ	GLORY TRIP 24GB-1	-	V	LF25	-	-	1300?	-	-
1974-S130	2442119.71	1974 Mar 13 0505	Minuteman 2	-	-	ERCS	ERCS GIANT MOON 5	GIANT MOON 5	-	V	LF05	-	-	1300?	-	BOA
1974-S151	2442134.67	1974 Mar 28 0400	Minuteman 2	-	-	Mk 11 RV?	FOT GT117M-1	GLORY TRIP 117M-1	-	V	LF07	-	-	1300?	-	-
1974-S158	2442139.68	1974 Apr 2 0418	Minuteman 2	-	-	Mk 11 RV?	FOT GT119M	GLORY TRIP 119M	-	V	LF02	-	-	1300?	-	KMR
1974-S165	2442142.56	1974 Apr 5 0125	Minuteman 3	-	PVM-5	Mk 12 RV x 3	R&D	PVM-5	-	V	LF21	-	-	1300?	-	-
1974-S173	2442153.50	1974 Apr 16	Minuteman 1B	-	-	SSTTP	SSTTP M2-135	-	-	V	LF06	-	-	1300?	-	KMR
1974-S181	2442164.84	1974 Apr 27 0810?	Minuteman 1B	-	-	SSTTP	SSTTP M2-35	-	-	V	LF03	-	-	1300?	-	KMR
1974-S187	2442170.42	1974 May 2 2200	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT44GM	GLORY TRIP 44GM	-	V	LF02	-	-	1300?	-	-
1974-S267	2442237.50	1974 Jul 9	Minuteman 2	-	-	Mk 11C RV	FOT GT12OM	GLORY TRIP 12OGM	-	V	LF04	-	-	1300?	-	-
1974-S268	2442240.15	1974 Jul 11 1540	Minuteman 1B	-	-	SAMAST-02/MINT	ABRES SAMAST	-	-	V	LF03	-	-	1300?	-	KMR?
1974-S270	2442247.54	1974 Jul 19 0058	Minuteman 1B	-	-	SSTTP	SSTTP M2-146	-	-	V	LF06	-	-	1300?	-	KMR
1974-S277	2442260.50	1974 Aug 1	Minuteman 1B	-	-	SSTTP	SSTTP M2-46	-	-	V	LF03	-	-	1300?	-	KMR
1974-S280	2442277.18	1974 Aug 17 1620?	Minuteman 3	-	SAC OT-45	3 RV	FOT GT45GM	GLORY TRIP 45GM	-	V	LF02	-	-	1300?	-	KMR
1974-S329	2442319.15	1974 Sep 28 1534	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT46GB	GLORY TRIP 46GB	-	V	LF22	-	-	1300?	-	-
1974-S336	2442325.76	1974 Oct 5 0610?	Minuteman 3	-	PVM-8	2 RV	R&D	PVM-8	-	V	LF04	-	-	1300?	-	KMR
1974-S339	2442328.65	1974 Oct 8 0335	Minuteman 2	-	-	Mk 11 RV?	FOT GT118M	GLORY TRIP 118GM	-	V	LF02	-	-	1300?	-	-
1974-S345	2442332.75	1974 Oct 12 0554	Minuteman 3	-	PVM-6	Mk 12 RV x 3	R&D	PVM-6	-	V	LF21	-	-	1300?	-	-
1974-S346	2442332.85	1974 Oct 12 0830	Minuteman 3	-	PVM-7	Mk 12 RV x 3	R&D	PVM-7	-	V	LF25	-	-	1300?	-	-
1974-S360	2442343.12	1974 Oct 22 1455	Minuteman 2	-	-	ERCS	ERCS GIANT MOON 6	GIANT MOON 6	-	V	LF05	-	-	1300?	-	BOA
1974-A47	2442344.50	1974 Oct 24	Minuteman 1	-	-	Mk 5 RV?	-	AIR MOBILE FEASIBILITY	C-5A-014	EAFB	RW04/22	WTR	LP12	6	-	WTR LP3
1974-S367	2442346.12	1974 Oct 25 1455	Minuteman 3	-	-	Mk 12 RV x 3	OT GT28GM	GLORY TRIP 28GM	-	V	LF09	-	-	1300?	-	-
1974-S390	2442377.50	1974 Nov 26	Minuteman 3	-	PVM-9	Mk 12 RV x 3	R&D	PVM-9	-	V	LF08	-	-	1300?	-	-
1974-S400	2442385.81	1974 Dec 4 0720	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT47GB	GLORY TRIP 47GB	-	V	LF25	-	-	1300?	-	-
1974-S416	2442399.61	1974 Dec 18 0235	Minuteman 2	-	-	Mk 11 RV?	FOT GT121M	GLORY TRIP 121GM	-	V	LF04	-	-	1300?	-	-
1975-S42	2442431.97	1975 Jan 19 1112	Minuteman 1B	-	-	USN Mk 4 RV	Mk 4 SFT-04	SFT-04	-	V	LF03	-	-	1300?	-	-
1975-S51	2442442.14	1975 Jan 29 1520	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT48GM	GLORY TRIP 48GM	-	V	LF04	-	-	1300?	-	-
1975-S59	2442449.11	1975 Feb 5 1440	Minuteman 3	-	-	Mk 12 RV x 3	OT GT29GM-1	GLORY TRIP 29GM-1	-	V	LF09	-	-	500?	1500	-
1975-S90	2442477.86	1975 Mar 6 0836	Minuteman 1B	-	-	Mk 500 RB 101	Evader SFT-101	SFT-101	-	V	LF06	-	-	1300?	-	-
1975-S145	2442539.68	1975 May 7 0420	Minuteman 3	-	PVM-10	Mk 12 RV x 3	R&D	PVM-10	-	V	LF26	-	-	1300?	-	KMR
1975-S148	2442541.50	1975 May 9	Minuteman 1B	-	FTM 1328	Mk 500 RB 102	Evader SFT-102	SFT-102	-	V	LF06	-	-	1300?	-	-
1975-S157	2442548.50	1975 May 16	Minuteman 3	-	STM-9W/FTM 5647	Mk 12A RV x 3?	PAVE PEPPER	PAVE PEPPER 1	-	V	LF02	-	-	1300?	-	-
1975-S158	2442555.50	1975 May 23	Minuteman 1B	-	FTM 1406	NTV-3	ABRES NTV-3	-	-	V	LF03	-	-	1300?	-	-
1975-S197	2442575.10	1975 Jun 11 1430	Minuteman 3	-	-	Mk 12 RV x 3	OT GT30GM	GLORY TRIP 30GM	-	V	LF08	-	-	1300?	-	-
1975-S206	2442583.50	1975 Jun 20	Minuteman 3	-	-	Mk 12 RV x 3	OT GT31GM	GLORY TRIP 31GM	-	V	LF09	-	-	1300?	-	-
1975-S222	2442595.62	1975 Jul 2 0300?	Minuteman 3	-	PVM-11	Mk 12 RV x 3	R&D	-	-	V	LF26	-	-	1300?	-	KMR
1975-S232	2442619.50	1975 Jul 26	Minuteman 3	-	STM-10W	Mk 12A RV x 3?	PAVE PEPPER	PAVE PEPPER 2	-	V	LF02	-	-	1300?	-	-
1975-S243	2442639.68	1975 Aug 15 0425	Minuteman 2	-	FTM 2396	Mk 11C RV	FOT GT122M-1	GLORY TRIP 122M-1	-	V	LF04	-	-	1300?	-	-
1975-S249	2442646.50	1975 Aug 22	Minuteman 1B	-	-	Mk 500 RB 103	Evader SFT-103	SFT-103A	-	V	LF06	-	-	1300?	-	-
1975-S259	2442654.10	1975 Aug 29 1430	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT49GM	GLORY TRIP 49GM	-	V	LF08	-	-	1300?	-	-
1975-S267	2442660.68	1975 Sep 5 0425	Minuteman 2	-	-	ERCS	ERCS GIANT MOON 7	GIANT MOON 7	-	V	LF05	-	-	1300?	-	BOA
1975-S272	2442665.50	1975 Sep 10	Minuteman 1B	-	-	Mk 500 RB 104	Evader SFT-104	SFT-104A	-	V	LF06	-	-	1300?	-	-
1975-S274	2442671.50	1975 Sep 16	Minuteman 2	-	-	Mk 11 RV?	FOT GT123M-1	GLORY TRIP 123M-1	-	V	LF07	-	-	1300?	-	-
1975-S279	2442679.57	1975 Sep 24 0144	Minuteman 2	-	OSL	Mk 11 RV?	Ogden Special Launch	OSL	-	V	LF04	-	-	1300?	-	-
1975-S286	2442685.92	1975 Sep 30 1002	Minuteman 1B	-	-	USN Mk 4 RV	Mk 4 SFT-05	SFT-05	-	V	LF03	-	-	1300?	-	-
1975-S318	2442729.50	1975 Nov 13	Minuteman 1B	-	FTM 1349	USN Mk 4 RV	Mk 4 SFT-06	SFT-06	-	V	LF03	-	-	1300?	-	-
1975-S320	2442731.22	1975 Nov 14 1710	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT50GM	GLORY TRIP 50GM	-	V	LF08	-	-	1300?	-	-
1975-S353	2442763.50	1975 Dec 17	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT51GB	GLORY TRIP 51GB	-	V	LF22	-	-	1300?	-	-
1976-S52	2442785.50	1976 Jan 8	Minuteman 3	-	PVM-12	Mk 12 RV x 3	R&D	-	-	V	LF26	-	-	1300?	-	-
1976-S73	2442800.50	1976 Jan 23	Minuteman 1B	-	FTM 1313	Mk 500 RB 105	Evader SFT-105	SFT-105	-	V	LF06	-	-	1300?	-	-
1976-S83	2442807.70	1976 Jan 30 0450	Minuteman 2	-	-	Mk 11 RV?	FOT GT125M	GLORY TRIP 125M	-	V	LF07	-	-	1300?	-	-
1976-S96	2442814.50	1976 Feb 6	Minuteman 3	-	-	Mk 12 RV x 3	OT GT26GM-4	GLORY TRIP 26GM-4	-	V	LF09	-	-	200?	-	-
1976-S105	2442828.64	1976 Feb 20 0320	Minuteman 2	-	-	Mk 11 RV?	FOT GT126M	GLORY TRIP 126M	-	V	LF05	-	-	1300?	-	-
1976-S109	2442833.72	1976 Feb 25 0515	Minuteman 2	-	-	Mk 11 RV?	FOT GT124M	GLORY TRIP 124M	-	V	LF04	-	-	1300?	-	-
1976-S112	2442836.58	1976 Feb 28 0200	Minuteman 1B	-	-	ANT-1 RV x 4	ABRES ANT-1	-	-	V	LF03	-	-	1300?	-	-
1976-S123	2442841.50	1976 Mar 4	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT52GB	GLORY TRIP 52GB	-	V	LF25	-	-	1300?	-	-
1976-S135	2442851.50	1976 Mar 14	Minuteman 3	-	PVM-13	Mk 12 RV x 3	R&D	PVM-13	-	V	LF26	-	-	1300?	-	-
1976-S198	2442938.80	1976 Jun 9 0719	Minuteman 2	-	-	Mk 11 RV?	FOT GT127M	GLORY TRIP 127M	-	V	LF07	-	-	1300?	-	-
1976-S205	2442950.79	1976 Jun 21 0701	Minuteman 3	-	-	Mk 12 RV x 3	OT GT33GM	GLORY TRIP 33GM	-	V	LF08	-	-	1300?	-	-
1976-S206	2442952.75	1976 Jun 23 0600?	Minuteman 2	-	-	Mk 11 RV?	FOT GT128M	GLORY TRIP 128M	-	V	LF05	-	-	1300?	-	-
1976-S221	2442959.89	1976 Jun 30 0919	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT54GM	GLORY TRIP 54GM	-	V	LF09	-	-	1300?	-	-
1976-S226	2442974.50	1976 Jul 15	Minuteman 3	-	STM-11W	Mk 12 RV x 3	STM-11W	STM-11W	-	V	LF21	-	-	1300?	-	-
1976-S253	2443009.50	1976 Aug 19	Minuteman 1B	-	-	SAMAST	ABRES	SAMAST III/MINT II	-	V	LF06	-	-	1300?	-	KMR
1976-S270	2443016.50	1976 Aug 26	Minuteman 2	-	-	Mk 11 RV?	FOT GT129M	GLORY TRIP 129M	-	V	LF07	-	-	1300?	-	-
1976-S307	2443078.62	1976 Oct 27 0300	Minuteman 2	-	-	ERCS	ERCS GIANT MOON 8	GIANT MOON 8	-	V	LF05	-	-	1300?	-	BOA

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-S319	2443087.85	1976 Nov 5 0820	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT55GM	GLORY TRIP 55GM	-	V	LF08	-	-	1300?	-	-
1976-S320	2443090.95	1976 Nov 8 1054	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT56GB	GLORY TRIP 56GB	-	V	LF26	-	-	1300?	-	-
1976-S322	2443094.50	1976 Nov 12	Minuteman 3	-	STM-12W	Mk 12 RV x 3	R&D	STM-12W	-	V	LF21	-	-	1300?	-	-
1976-S340	2443113.77	1976 Dec 1 0630	Minuteman 3	-	-	Mk 12 RV x 3	OT GT32GM-1	GLORY TRIP 32GM-1	-	V	LF09	-	-	1300?	-	-
1977-S45	2443164.84	1977 Jan 21 0804	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT53GM-1	GLORY TRIP 35GM-1	-	V	LF08	-	-	1300?	-	-
1977-S55	2443174.71	1977 Jan 31 0505:00	Minuteman 3	-	STM-13W/5729	Mk 12A RV x 3?	R&D	STM-13W	-	V	LF21	-	-	1300?	-	-
1977-S56	2443175.50	1977 Feb 1	Minuteman 2	-	-	Mk 11 RV?	FOT GT132M	GLORY TRIP 132M	-	V	LF07	-	-	1300?	-	-
1977-S80	2443190.85	1977 Feb 16 0826	Minuteman 3	-	-	Mk 12 RV x 3	OT GT27GM-2	GLORY TRIP 27GM-2	-	V	LF09	-	-	1300?	-	-
1977-S96	2443204.85	1977 Mar 2 0817	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT57GB	GLORY TRIP 57GB	-	V	LF26	-	-	1300?	-	-
1977-S166	2443281.50	1977 May 18	Minuteman 1B	-	-	TDV-1	ABRES TDV-1	TDV-1	-	V	LF06	-	-	1300?	-	-
1977-S173	2443291.84	1977 May 28 0810	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT58GB	GLORY TRIP 58GB	-	V	LF26	-	-	1300?	-	-
1977-S191	2443296.80	1977 Jun 2 0708	Minuteman 3	-	-	Mk 12 RV x 3	OT GT34GM-1	GLORY TRIP 34GM-1	-	V	LF09	-	-	1300?	-	-
1977-S198	2443311.58	1977 Jun 17 0200:00	Minuteman 3	-	STM-14W/5747	Mk 12A RV x 3?	R&D	STM-14W	-	V	LF21	-	-	1300?	-	-
1977-S208	2443323.77	1977 Jun 29 0622	Minuteman 2	-	-	Mk 11 RV?	FOT GT134M	GLORY TRIP 134M	-	V	LF04	-	-	1300?	-	-
1977-S224	2443358.83	1977 Aug 3 0800	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT60GB	GLORY TRIP 60GB	-	V	LF26	-	-	1300?	-	-
1977-S227	2443365.80	1977 Aug 10 0710	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT59GM-1	GLORY TRIP 59GM-1	-	V	LF08	-	-	1300?	-	-
1977-S234	2443375.58	1977 Aug 20 0200	Minuteman 3	-	PVM-14	Mk 12 RV x 3	R&D	PVM-14	-	V	LF21	-	-	1300?	-	-
1977-S239	2443389.50	1977 Sep 3	Minuteman 1B	-	-	TDV-2	ABRES TDV-2	TDV-2	-	V	LF06	-	-	1300?	-	-
1977-S248	2443400.80	1977 Sep 14 0710	Minuteman 3	-	-	Mk 12 RV x 3	OT GT35GM	GLORY TRIP 35GM	-	V	LF09	-	-	1300?	-	-
1977-S277	2443450.50	1977 Nov 3	Minuteman 3	-	PVM-15	Mk 12 RV x 3	R&D	PVM-15	-	V	LF21	-	-	1300?	-	KMR
1977-S280	2443460.50	1977 Nov 13	Minuteman 1B	-	-	TDV-3	ABRES TDV-3	TDV-3	-	V	LF06	-	-	1300?	-	-
1977-S288	2443478.62	1977 Dec 1 0250	Minuteman 2	-	-	Mk 11 RV?	FOT GT135M	GLORY TRIP 135M	-	V	LF07	-	-	1300?	-	-
1977-S296	2443484.78	1977 Dec 7 0650	Minuteman 3	-	-	Mk 12 RV x 3	OT GT36GM	GLORY TRIP 36GM	-	V	LF09	-	-	1300?	-	KMR
1978-S42	2443514.50	1978 Jan 6	Minuteman 3	-	STM-15W	Mk 12A RV x 3?	R&D	STM-15W	-	V	LF21	-	-	1300?	-	KMR
1978-S65	2443547.50	1978 Feb 8	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT62GB	GLORY TRIP 62GB	-	V	LF26	-	-	1300?	-	KMR
1978-S71	2443554.50	1978 Feb 15	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT61GM	GLORY TRIP 61GM	-	V	LF08	-	-	1300?	-	KMR
1978-S87	2443570.70	1978 Mar 3 0441	Minuteman 3	-	-	Mk 12 RV x 3	OT GT37GM	GLORY TRIP 37GM	-	V	LF09	-	-	1300?	-	KMR
1978-S100	2443603.97	1978 Apr 5 1115	Minuteman 1B	-	-	TREP-1	ABRES TREP-1	TREP-1	-	V	LF06	-	-	1300?	-	-
1978-S146	2443662.50	1978 Jun 3	Minuteman 2	-	-	Mk 11 RV?	FOT GT136M	GLORY TRIP 136M	-	V	LF04	-	-	1300?	-	-
1978-S152	2443667.50	1978 Jun 8	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT63GB	GLORY TRIP 63GB	-	V	LF26	-	-	1300?	-	KMR
1978-S158	2443675.50	1978 Jun 16	Minuteman 1B	-	-	ANT-3	ABRES ANT-3	ANT-3	-	V	LF03	-	-	1300?	-	-
1978-S162	2443682.52	1978 Jun 23 0030	Minuteman 3	-	STM-16W	Mk 12A RV x 2	R&D	STM-16W	-	V	LF21	-	-	1300?	-	KMR
1978-S167	2443686.50	1978 Jun 27	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT64GM	GLORY TRIP 64GM	-	V	LF08	-	-	1300?	-	KMR
1978-S174	2443693.50	1978 Jul 4	Minuteman 1B	-	-	ANT-2	ABRES ANT-2	ANT-2	-	V	LF06	-	-	1300?	-	-
1978-S184	2443714.50	1978 Jul 25	Minuteman 2	-	-	Mk 11 RV?	FOT GT133M-1	GLORY TRIP 133M-1	-	V	LF09	-	-	1300?	-	-
1978-S205	2443757.50	1978 Sep 6	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT65GB	GLORY TRIP 65GB	-	V	LF26	-	-	1300?	-	KMR
1978-S231	2443828.50	1978 Nov 16	Minuteman 2	-	-	Mk 11 RV?	FOT GT130M-2	GLORY TRIP 130M-2	-	V	LF07	-	-	1300?	-	-
1978-S237	2443840.60	1978 Nov 28 0230	Minuteman 1B	-	-	ANT-3A	ABRES ANT-3A	ANT-3A	-	V	LF06	-	-	1300?	-	-
1978-S248	2443847.50	1978 Dec 5	Minuteman 3	-	-	Mk 12 RV x 3	OT GT38GM	GLORY TRIP 38GM	-	V	LF09	-	-	1300?	-	KMR
1978-S251	2443850.50	1978 Dec 8	Minuteman 3	-	STM-17W	Mk 12A RV x 3	R&D	STM-17W	-	V	LF21	-	-	1300?	-	KMR
1979-S38	2443892.50	1979 Jan 19	Minuteman 1B	-	-	STREP-1	ABRES STREP-1	STREP-1	-	V	LF06	-	-	1300?	-	KMR
1979-S43	2443897.50	1979 Jan 24	Minuteman 1B	-	-	ABRV-1	ABRES ABRV-1	ABRV-1	-	V	LF03	-	-	1300?	-	-
1979-S53	2443903.50	1979 Jan 30	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT66GM	GLORY TRIP 66GM	-	V	LF08	-	-	1300?	-	KMR
1979-S57	2443910.50	1979 Feb 6	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT67GB	GLORY TRIP 67GB	-	V	LF26	-	-	1300?	-	KMR
1979-S60	2443919.50	1979 Feb 15	Minuteman 3	-	PVM-16	Mk 12A RV x 3	R&D, Mk 12 Mod 1A	PVM-16	-	V	LF21	-	-	1300?	-	KMR
1979-S102	2443955.50	1979 Mar 23	Minuteman 2	-	-	Mk 11 RV?	FOT GT137M	GLORY TRIP 137M	-	V	LF07	-	-	1300?	-	-
1979-S106	2443960.50	1979 Mar 28	Minuteman 3	-	-	Mk 12 RV x 3	OT GT39GM	GLORY TRIP 39GM	-	V	LF09	-	-	1300?	-	KMR
1979-S128	2443983.54	1979 Apr 20 0100	Minuteman 3	-	PVM-17	Mk 12A RV x 2	R&D	PVM-17	-	V	LF21	-	-	1300?	-	KMR
1979-S157	2444060.50	1979 Jul 6	Minuteman 1B	-	-	Mk 12A LBRV-1	ABRES LBRV-1	LBRV-1	-	V	LF03	-	-	1300?	-	-
1979-S159	2444065.24	1979 Jul 10 1739:00	Minuteman 3	-	Global Shield 79	Mk 12 RV x 3	OT GT40GM	GLORY TRIP 40GM	-	V	LF09	-	-	1300?	-	KMR
1979-S160	2444065.24	1979 Jul 10 1739:12	Minuteman 3	-	Global Shield 79	Mk 12 RV x 3	FOT GT68GM	GLORY TRIP 68GM	-	V	LF08	-	-	1300?	-	KMR
1979-S163	2444070.50	1979 Jul 16	Minuteman 2	-	Global Shield 79	ECRS	ERCS GIANT MOON 9	GIANT MOON 9	-	V	LF04	-	-	1300?	-	BOA
1979-S173	2444080.50	1979 Jul 26	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT69GB	GLORY TRIP 69GB	-	V	LF26	-	-	1300?	-	KMR ILL
1979-S179	2444088.50	1979 Aug 3	Minuteman 1B	-	-	STREP-2	ABRES STREP-2	STREP-2	-	V	LF06	-	-	1300?	-	KMR
1979-S196	2444115.50	1979 Aug 30	Minuteman 3	-	STM-18W	Mk 12A RV x 3	R&D	STM-18W	-	V	LF21	-	-	1300?	-	KMR
1979-S206	2444138.50	1979 Sep 22	Minuteman 1B	-	-	ABRV-2	ABRES ABRV-2	ABRV-2	-	V	LF06	-	-	1300?	-	-
1979-S209	2444141.50	1979 Sep 25	Minuteman 2	-	-	Mk 11 RV?	FOT GT138M	GLORY TRIP 138GM	-	V	LF04	-	-	1300?	-	-
1979-S214	2444144.50	1979 Sep 28	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT70GM	GLORY TRIP 70GM	-	V	LF08	-	-	1300?	-	KMR ILL
1979-S248	2444220.50	1979 Dec 13	Minuteman 2	-	-	Mk 11 RV?	FOT GT139M	GLORY TRIP 139M	-	V	LF07	-	-	1300?	-	-
1979-S254	2444227.50	1979 Dec 20	Minuteman 1B	-	-	AMARV FTV-1	ABRES AMARV-1	AMARV-1	-	V	LF03	-	-	1300?	-	KMR
1980-S32	2444269.50	1980 Jan 31	Minuteman 3	-	PVM-18	Mk 12 RV x 3	R&D	PVM-18	-	V	LF21	-	-	1300?	-	KMR
1980-S38	2444274.50	1980 Feb 5	Minuteman 3	-	-	Mk 12 RV x 2	FOT GT71GM	GLORY TRIP 71GM	-	V	LF09	-	-	1300?	-	KMR
1980-S54	2444290.50	1980 Feb 21	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT72GB	GLORY TRIP 72GB	-	V	LF26	-	-	1300?	-	KMR
1980-S56	2444293.50	1980 Feb 24	Minuteman 2	-	-	Mk 11 RV?	FOT GT140M	GLORY TRIP 140M	-	V	LF04	-	-	1300?	-	-
1980-S58	2444296.50	1980 Feb 27	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT73GM	GLORY TRIP 73GM	-	V	LF08	-	-	1300?	-	KMR
1980-S65	2444313.50	1980 Mar 15	Minuteman 1B	-	-	ABRV-3	ABRES ABRV-3	ABRV-3	-	V	LF06	-	-	1300?	-	-
1980-S72	2444325.50	1980 Mar 27	Minuteman 3	-	PVM-19	Mk 12 RV x 3	R&D	PVM-19	-	V	LF21	-	-	1300?	-	KMR
1980-S85	2444339.50	1980 Apr 10	Minuteman 1B	-	-	STREP-4	ABRES STREP-4	STREP-4	-	V	LF03	-	-	1300?	-	KMR
1980-S125	2444413.10	1980 Jun 22 1430	Minuteman 3	-	Global Shield 80	Mk 12 RV x 3	FOT GT74GM	GLORY TRIP 74GM	-	V	LF08	-	-	1300?	-	KMR
1980-S153	2444471.50	1980 Aug 20	Minuteman 3	-	Long range OT	Mk 12 RV x 3	FOT GT76GB	GLORY TRIP 76GB	-	V	LF26	-	-	1300?	-	BOA
1980-S170	2444498.51	1980 Sep 16 0015	Minuteman 1B	-	-	STREP-3	ABRES STREP-3	-	-	V	LF06	-	-	1300?	-	KMR
1980-S171	2444499.50	1980 Sep 17	Minuteman 3	-	Long range OT	Mk 12 RV x 3	FOT GT77GM	GLORY TRIP 77GM	-	V	LF09	-	-	1400?	10400	BOA
1980-S176	2444507.08	1980 Sep 24 1400	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT78GM	GLORY TRIP 78GM	-	V	LF08	-	-	1300?	-	KMR
1980-S181	2444520.50	1980 Oct 8	Minuteman 1B	-	-	AMARV FTV-2	ABRES AMARV-2	-	-	V	LF03	-	-	1300?	-	KMR
1980-S236	2444589.50	1980 Dec 16	Minuteman 1B	-	-	ABRV-4	ABRES ABRV-4	-	-	V	LF06	-	-	1300?	-	-
1981-S65	2444645.10	1981 Feb 9 1431	Minuteman 3	-	Global Shield 81	Mk 12 RV x 3	FOT GT79GM	GLORY TRIP 79GM	-	V	LF08	-	-	1300?	-	KMR
1981-S66	2444645.19	1981 Feb 9 1638	Minuteman 3	-	Global Shield 81	Mk 12 RV x 3	FOT GT80GM	GLORY TRIP 80GM	-	V	LF09	-	-	1300?	-	KMR
1981-S72	2444653.50	1981 Feb 18	Minuteman 1B	-	-	IRS-1	ABRES IRS-1	-	-	V	LF06	-	-	1300?	-	-
1981-S73	2444657.08	1981 Feb 21 1400	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT81GB	GLORY TRIP 81GB	-	V	LF26	-	-	1300?	-	KMR
1981-S84	2444678.50	1981 Mar 15	Minuteman 1B	-	-	TDV-4	ABRES TDV-4	-	-	V	LF03	-	-	1300?	-	-
1981-S90	2444696.04	1981 Apr 1 1300	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT75GM-2	GLORY TRIP 75GM-2	-	V	LF04	-	-	1300?	-	KMR
1981-S96	2444698.50	1981 Apr 4	Minuteman 1B	-	-	Mk500-PAS-1	ABRES Mk500-PAS-1	-	-	V	LF06	-	-	1300?	-	-
1981-S116	2444768.64	1981 Jun 13 0325	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT82GM	GLORY TRIP 82GM	-	V	LF09	-	-	1300?	-	KMR
1981-S122	2444781.50	1981 Jun 26	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT83GB	GLORY TRIP 83GB	-	V	LF26	-	-	1300?	-	KMR
1981-S156	2444859.50	1981 Sep 12	Minuteman 1B	-	-	Mk500-PAS-2	ABRES Mk500-PAS-2	-	-	V	LF06	-	-	1300?	-	-
1981-S160	2444881.50	1981 Oct 4	Minuteman 1B	-	-	AMARV-3	ABRES AMARV-3	-	-	V	LF03	-	-	1300?	-	KMR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-S172	2444932.50	1981 Nov 24	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT84GM-1	GLORY TRIP 84GM-1	-	V	LF09	-	-	1300?	-	KMR
1981-S180	2444947.50	1981 Dec 9	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT85GB	GLORY TRIP 85GB	-	V	LF26	-	-	1300?	-	KMR
1982-S48	2444999.07	1982 Jan 29 1343	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT86GM	GLORY TRIP 86GM	-	V	LF08	-	-	1300?	-	KMR
1982-S86	2445046.50	1982 Mar 18	Minuteman 2	-	-	Mk 11 RV?	FOT GT141MS	GLORY TRIP 141MS	-	V	LF04	-	-	1300?	-	-
1982-S104	2445060.07	1982 Mar 31 1335	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT87GB	GLORY TRIP 87GB	-	V	LF26	-	-	1300?	-	KMR
1982-S129	2445143.10	1982 Jun 22 1427	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT88GM	GLORY TRIP 88GM	-	V	LF08	-	-	1300?	-	KMR
1982-S139	2445169.50	1982 Jul 19	Minuteman 2	-	-	Mk 11 RV?	FOT GT142M	GLORY TRIP 142M	-	V	LF04	-	-	1300?	-	-
1982-S148	2445186.59	1982 Aug 5 0205	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT89GM	GLORY TRIP 89GM	-	V	LF09	-	-	1300?	-	KMR
1982-S170	2445236.50	1982 Sep 24	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT90GB	GLORY TRIP 90GB	-	V	LF26	-	-	1300?	-	KMR
1982-S173	2445250.50	1982 Oct 8	Minuteman 1B	-	-	STREP-21	RSLP STREP-21	-	-	V	LF03	-	-	1300?	-	-
1982-S175	2445257.60	1982 Oct 15 0225	Minuteman 2	-	-	Mk 11 RV?	FOT GT143MS-1	GLORY TRIP 143MS-1	-	V	LF08	-	-	1300?	-	KMR
1982-S196	2445306.07	1982 Dec 2 1345	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT91GM	GLORY TRIP 91GM	-	V	LF09	-	-	1300?	-	KMR
1983-S41	2445342.50	1983 Jan 8 0000	Minuteman 1B	-	-	Mk 12A LBRV-2	RSLP LBRV-2	-	-	V	LF03	-	-	1300?	-	KMR
1983-S52	2445372.86	1983 Feb 7 0844	Minuteman 1B	-	-	HOE Target	RSLP STREP-11 (HOE)	-	-	V	LF06	-	-	1300?	-	-
1983-S53	2445372.88	1983 Feb 7 0910?	HOE	-	HOE 1	HOE 1	HOE 1	-	-	KMR	Meck	-	-	200?	-	KMR BOA?
1983-S61	2445390.16	1983 Feb 24 1557	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT92GB	GLORY TRIP 92GB	-	V	LF26	-	-	100?	-	(KMR)
1983-S72	2445404.50	1983 Mar 11	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT93GM	GLORY TRIP 93GM	-	V	LF04	-	-	1300?	-	KMR
1983-S77	2445409.50	1983 Mar 16	Minuteman 2	-	-	Mk 11 RV?	FOT GT144MS	GLORY TRIP 144MS	-	V	LF08	-	-	1300?	-	-
1983-S95	2445459.50	1983 May 5	Minuteman 1B	-	-	STREP-22	RSLP STREP-22	-	-	V	LF03	-	-	1300?	-	-
1983-S104	2445482.50	1983 May 28	Minuteman 1B	-	-	HOE Target	RSLP STREP-12 (HOE)	-	-	V	LF03	-	-	1300?	-	-
1983-S105	2445482.50	1983 May 28	HOE	-	HOE 2	HOE 2	HOE 2	-	-	KMR	Meck	-	-	200?	-	KMR BOA?
1983-S121	2445510.96	1983 Jun 25 1100	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT94GM	GLORY TRIP 94GM	-	V	LF09	-	-	1300?	-	KMR
1983-S120	2445511.08	1983 Jun 25 1400	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT95GB	GLORY TRIP 95GB	-	V	LF26	-	-	1300?	-	KMR
1983-S167	2445598.50	1983 Sep 21	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT96GM	GLORY TRIP 96GM	-	V	LF08	-	-	1300?	-	KMR
1983-S168	2445599.08	1983 Sep 21 1355	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT97GM	GLORY TRIP 97GM	-	V	LF09	-	-	1300?	-	KMR
1983-S175	2445606.58	1983 Sep 29 0200	Minuteman 2	-	-	Mk 11 RV?	FOT GT145MS	GLORY TRIP 145MS	-	V	LF04	-	-	1300?	-	-
1983-S205	2445660.50	1983 Nov 22	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT98GB	GLORY TRIP 98GB	-	V	LF26	-	-	1300?	-	KMR
1983-S211	2445683.50	1983 Dec 15	Minuteman 1B	-	-	HOE Target	RSLP STREP-12A (HOE)	-	-	V	LF03	-	-	1300?	-	-
1983-S212	2445683.50	1983 Dec 15	HOE	-	HOE 3	HOE 3	HOE 3	-	-	KMR	Meck	-	-	200?	-	KMR BOA?
1984-S45	2445724.97	1984 Jan 25 1115	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT99GM	GLORY TRIP 99GM	-	V	LF09	-	-	1300?	-	KMR
1984-S46	2445725.04	1984 Jan 25 1300	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT100GM	GLORY TRIP 100GM	-	V	LF08	-	-	1300?	-	KMR
1984-S67	2445759.50	1984 Feb 29	Minuteman 2	-	-	Mk 11 RV?	FOT GT146MS	GLORY TRIP 146MS	-	V	LF04	-	-	1300?	-	-
1984-S80	2445798.50	1984 Apr 8	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT101GB	GLORY TRIP 101GB	-	V	LF26	-	-	1300?	-	KMR
1984-S81	2445798.50	1984 Apr 8	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT102GM	GLORY TRIP 102GM	-	V	LF09	-	-	1300?	-	KMR
1984-S92	2445861.50	1984 Jun 10	Minuteman 1B	-	-	HOE Target	RSLP STREP-13 (HOE)	-	-	V	LF03	-	-	1300?	-	KMR
1984-S93	2445861.50	1984 Jun 10	HOE	-	HOE 4	HOE 4	HOE 4	-	-	KMR	Meck	-	-	200?	-	KMR BOA
1984-S114	2445956.96	1984 Sep 13 1100	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT103GM	GLORY TRIP 103GM	-	V	LF09	-	-	1300?	-	KMR
1984-S116	2445962.50	1984 Sep 19	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT104GB	GLORY TRIP 104GB	-	V	LF26	-	-	1300?	-	KMR
1984-S121	2445977.99	1984 Oct 4 1145	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT105GM	GLORY TRIP 105GM	-	V	LF04	-	-	1300?	-	KMR
1984-S124	2445991.50	1984 Oct 18	Minuteman 1B	-	-	IPA-1	RSLP IPA-1	-	-	V	LF03	-	-	1300?	-	KMR
1985-S34	2446103.05	1985 Feb 6 1318	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT106GM	GLORY TRIP 106GM	-	V	LF04	-	-	100?	-	(KMR)
1985-S44	2446117.04	1985 Feb 20 1300	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT107GB	GLORY TRIP 107GB	-	V	LF26	-	-	1300?	-	KMR
1985-S77	2446208.15	1985 May 22 1534	Minuteman 1B	-	-	IPA-2	RSLP IPA-2	-	-	V	LF03	-	-	1300?	-	KMR
1985-S88	2446232.85	1985 Jun 16 0822	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT108GM	GLORY TRIP 108GM	-	V	LF04	-	-	1300?	-	KMR
1985-S89	2446232.93	1985 Jun 16 1015	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT109GB	GLORY TRIP 109GB	-	V	LF26	-	-	1300?	-	KMR
1985-S101	2446261.50	1985 Jul 15	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT110GM	GLORY TRIP 110GM	-	V	LF09	-	-	1300?	-	KMR
1985-S121	2446334.85	1985 Sep 26 0825	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT111GM	GLORY TRIP 111GM	-	V	LF04	-	-	1300?	-	KMR
1986-S22	2446475.50	1986 Feb 14	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT112GB	GLORY TRIP 112GB	-	V	LF26	-	-	1300?	-	KMR
1986-S32	2446505.00	1986 Mar 15 1200	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT113GM-1	GLORY TRIP 113GM-1	-	V	LF09	-	-	1300?	-	KMR
1986-S33	2446505.19	1986 Mar 15 1633	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT114GM	GLORY TRIP 114GM	-	V	LF04	-	-	1300?	-	KMR
1986-S34	2446506.50	1986 Mar 17	Minuteman 1B	-	-	IPA-3	RSLP IPA-3	-	-	V	LF03	-	-	1300?	-	KMR
1986-S56	2446596.83	1986 Jun 15 0800	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT115GB	GLORY TRIP 115GB	-	V	LF26	-	-	1300?	-	KMR
1986-S76	2446643.03	1986 Jul 31 1240	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT116GM-1	GLORY TRIP 116GM-1	-	V	LF09	-	-	1300?	-	KMR
1986-S82	2446671.09	1986 Aug 28 1404	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT117GM	GLORY TRIP 117GM	-	V	LF04	-	-	1000?	-	(KMR)
1986-S94	2446698.83	1986 Sep 25 0800	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT118GB	GLORY TRIP 118GB	-	V	LF26	-	-	1300?	-	KMR
1987-S44	2446815.86	1987 Jan 20 0835	Minuteman 1B	-	-	SENT-1	SENT-1	-	-	V	LF03	-	-	90?	-	(KMR)
1987-S45	2446823.83	1987 Jan 28 0800?	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT119GM	GLORY TRIP 119GM	-	V	LF09	-	-	1300?	-	KMR
1987-S49	2446830.90	1987 Feb 4 0930	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT120GB	GLORY TRIP 120GB	-	V	LF26	-	-	1300?	-	KMR
1987-S60	2446870.85	1987 Mar 16 0822	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT121GM	GLORY TRIP 121GM	-	V	LF04	-	-	1300?	-	KMR
1987-S77	2446887.84	1987 Apr 2 0805?	Minuteman 3	-	-	Mk 12/12A RV x 3/IPMS	IPMS	-	-	V	LF06	-	-	1300?	-	KMR
1987-S100	2446972.06	1987 Jun 25 1320	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT122GB-1	GLORY TRIP 122GB-1	-	V	LF26	-	-	1000?	-	(KMR)
1987-S107	2446984.69	1987 Jul 8 0435	Minuteman 2	-	-	Mk 11 RV?	FOT GT148M	GLORY TRIP 148M	-	V	LF04	-	-	1300?	-	KMR
1987-S108	2446989.07	1987 Jul 12 1335	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT123GM-1	GLORY TRIP 123GM-1	-	V	LF10	-	-	1000?	-	(KMR)
1987-S140	2447039.83	1987 Sep 1 0758	Minuteman 3	-	-	Mk 12/12A RV x 3/IPMS	IPMS	-	-	V	LF06	-	-	1300?	-	KMR
1987-S146	2447059.50	1987 Sep 21	Minuteman 1B	-	-	SENT-2	SENT-2	-	-	V	LF03	-	-	1300?	-	KMR?
1987-S164	2447097.58	1987 Oct 29 0148	Minuteman 2	-	-	Mk 11 RV?	FOT GT150M	GLORY TRIP 150M	-	V	LF04	-	-	1300?	-	KMR
1987-S166	2447102.85	1987 Nov 3 0825	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT124GM	GLORY TRIP 124GM	-	V	LF09	-	-	1300?	-	KMR
1987-S168	2447109.59	1987 Nov 10 0210	Minuteman 2	-	-	Mk 11 RV?	FOT GT149M	GLORY TRIP 149M	-	V	LF07	-	-	1	-	(KMR)
1988-S44	2447179.61	1988 Jan 19 0240	Minuteman 1B	-	-	TDMaRV	RSLP TDMaRV	-	-	V	LF03	-	-	1300?	-	KMR
1988-S49	2447190.12	1988 Jan 29 1500	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT125GB-1	GLORY TRIP 125GB-1	-	V	LF26	-	-	1300?	-	KMR
1988-S98	2447316.06	1988 Jun 3 1328	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT127GB	GLORY TRIP 127GB	-	V	LF26	-	-	1300?	-	KMR
1988-S103	2447354.99	1988 Jul 12 1140	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT126GM	GLORY TRIP 126GM	-	V	LF09	-	-	1300?	-	KMR
1988-S104	2447355.06	1988 Jul 12 1321	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT128GM	GLORY TRIP 128GM	-	V	LF04	-	-	1300?	-	KMR
1988-S130	2447462.14	1988 Oct 27 1528	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT130GM	GLORY TRIP 130GM	-	V	LF10	-	-	1300?	-	KMR
1989-S30	2447552.08	1989 Jan 25 1357	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT131GB	GLORY TRIP 131GB	-	V	LF26	-	-	1300?	-	KMR
1989-S38	2447579.50	1989 Feb 22	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT132GM-1	GLORY TRIP 132GM-1	-	V	LF04	-	-	1300?	-	KMR
1989-S41	2447592.85	1989 Mar 7 0826	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT133GM	GLORY TRIP 133GM	-	V	LF10	-	-	1300?	-	KMR
1989-S69	2447714.05	1989 Jul 6 1316	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT129GB-2	GLORY TRIP 129GB-2	-	V	LF26	-	-	1300?	-	KMR
1989-S70	2447719.20	1989 Jul 11 1651	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT134GM	GLORY TRIP 134GM	-	V	LF09	-	-	1300?	-	KMR
1989-S95	2447796.05	1989 Sep 26 1314	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT135GB	GLORY TRIP 135GB	-	V	LF26	-	-	1300?	-	KMR
1989-S107	2447838.18	1989 Nov 7 1617	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT136GM	GLORY TRIP 136GM	-	V	LF10	-	-	1300?	-	KMR
1990-S36	2447928.83	1990 Feb 6 0801	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT137GB	GLORY TRIP 137GB	-	V	LF26	-	-	1300?	-	KMR
1990-S39	2447936.50	1990 Feb 14	Minuteman 1B	-	-	MAST	RSLP MAST (OSC CFE)	-	-	V	LF03	-	-	1300?	-	KMR?
1990-S65	2447971.50	1990 Mar 21	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT139GM	GLORY TRIP 139GM	-	V	LF09	-	-	1300?	-	KMR
1990-S68	2447974.50	1990 Mar 24	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT138GM-1	GLORY TRIP 138GM-1	-	V	LF04	-	-	1300?	-	KMR
1990-S102	2448068.50	1990 Jun 26	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT140GB	GLORY TRIP 140GB	-	V	LF26	-	-	1300?	-	KMR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-S133	2448153.86	1990 Sep 19 0840	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT141GM/AOA Target	GLORY TRIP 141GM	-	V	LF09	-	-	1300?	-	KMR
1990-S152	2448201.50	1990 Nov 6	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT142GM	GLORY TRIP 142GM	-	V	LF04	-	-	1300?	-	KMR
1991-S51	2448285.25	1991 Jan 28 1803:00	Minuteman 1B	-	-	ERIS Target	GBI-1 ERIS Target	-	-	V	LF03	-	-	1300?	-	KMR
1991-S108	2448388.36	1991 May 11 2040	Minuteman 1B	-	-	ERIS Target	GBI-2 ERIS Target	-	-	V	LF03	-	-	1300?	-	KMR BOA?
1991-S113	2448428.63	1991 Jun 21 0301	Minuteman 1B	-	-	AST	RSLP AST	-	-	V	LF03	-	-	1300?	-	KMR
1991-S115	2448433.61	1991 Jun 26 0239	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT144GB	GLORY TRIP 144GB	-	V	LF26	-	-	1300?	-	KMR
1991-S122	2448439.93	1991 Jul 2 1017	Minuteman 3	-	-	Mk 12 RV x 3?	FOT GT143GM	GLORY TRIP 143GM	-	V	LF10	-	-	1300?	-	KMR
1991-S143	2448503.52	1991 Sep 4 0032	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT145GM	GLORY TRIP 145GM	-	V	LF04	-	-	1300?	-	KMR
1991-S166	2448571.93	1991 Nov 11 1019	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT146GM	GLORY TRIP 146GM	-	V	LF09	-	-	1300?	-	KMR
1992-S29	2448695.26	1992 Mar 13 1815:00	Minuteman 1B	-	-	ERIS Target	GBI-2B ERIS Target	-	-	V	LF03	-	-	1300?	-	KMR
1992-S39	2448747.50	1992 May 5	Minuteman 3	-	-	Mk 12/12A RV x 3?	FOT GT147GM-1	GLORY TRIP 147GM-1	-	V	LF10	-	-	1300?	-	KMR
1992-S48	2448775.96	1992 Jun 2 1100	Minuteman 3	-	-	Mk 12 RV? x 3	FOT GT148GB	GLORY TRIP 148GB	-	V	LF26	-	-	1300?	-	KMR
1992-S86	2448894.52	1992 Sep 29 0022	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT149GB	GLORY TRIP 149GB	-	V	LF26	-	-	1300?	-	KMR
1992-S89	2448920.55	1992 Oct 25 0106	Minuteman 1B	-	-	AST-DT 2	RSLP AST-DT 2	-	-	V	LF03	-	-	100?	-	(KMR)
1992-S91	2448930.58	1992 Nov 4 0200	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT150GM	GLORY TRIP 150GM	-	V	LF04	-	-	100?	-	(KMR)
1993-S21	2449056.58	1993 Mar 10 0154	Minuteman 3	-	-	Mk 12 RV x 3	FOT GT151GB	GLORY TRIP 151GB	-	V	LF26	-	-	1300?	-	KMR
1993-A07	2449154.23	1993 Jun 15 1730	Minuteman 1B	-	-	TDT-1	RSLP TDT-1	-	-	V	LF03	-	-	1?	-	(KMR)
1993-S44	2449171.50	1993 Jul 3 0001	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT152GM	GLORY TRIP 152GM	-	V	LF09	-	-	1300?	-	KMR
1993-S57	2449231.51	1993 Sep 1 0009	Minuteman 3	-	-	Mk 12/12A RV x 3?	FOT GT153GB	GLORY TRIP 153GB	-	V	LF26	-	-	1300?	-	KMR
1994-S09	2449385.50	1994 Feb 2	Minuteman 3	-	-	Mk 12 RV x 3?	FOT GT154GB	GLORY TRIP 154GB	-	V	LF26	-	-	1300?	-	KMR
1994-S38	2449511.50	1994 Jun 8	Minuteman 3	-	-	Mk 12/12A RV x 3?	FOT GT155GM	GLORY TRIP 155GM	-	V	LF04	-	-	1300?	-	KMR
1994-S45	2449540.09	1994 Jul 6 1415	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT156GM	GLORY TRIP 156GM	-	V	LF09	-	-	1300?	-	KMR
1994-S75	2449630.83	1994 Oct 5 0800	Minuteman 3	-	-	Mk 12/12A RV	FOT GT157GM	GLORY TRIP 157GM	-	V	LF04	-	-	1300?	-	KMR
1995-S08	2449749.50	1995 Feb 1	Minuteman 3	-	-	Mk 12/12A RV x 3?	FOT GT158GM	GLORY TRIP 158GM	-	V	LF09	-	-	1300?	-	KMR
1995-S22	2449793.50	1995 Mar 17	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT159GM	GLORY TRIP 159GM	-	V	LF04	-	-	1300?	-	KMR
1996-S12	2450149.33	1996 Mar 6 2001	Minuteman 3	-	-	Mk 12 RV x 3?	FOT GT161GM	GLORY TRIP 161GM	-	V	LF09	-	-	1300?	-	KMR
1996-S31	2450261.01	1996 Jun 26 1217	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT162GM	GLORY TRIP 162GM	-	V	LF10	-	-	1300?	-	KMR
1996-S32	2450261.12	1996 Jun 26 1459	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT160GM-1	GLORY TRIP 160GM-1	-	V	LF04	-	-	1300?	-	KMR
1996-S57	2450354.20	1996 Sep 27 1651	Minuteman 2	-	MSLS IFT-Demo	MSLS IFT-Demo	MSLS	-	-	V	LF03	-	-	1600	-	KMR
1997-S04	2450465.55	1997 Jan 17 0117	Minuteman 2	-	MSLS IFT-1	MSLS IFT-1	IFT-1 EKV Target	-	-	V	LF03	-	-	1300?	-	KMR
1997-S06	2450478.86	1997 Jan 30 0842	Minuteman 3	-	-	Mk 12 RV x 3?	FOT GT163GB	GLORY TRIP 163GB	-	V	LF26	-	-	1300?	-	KMR
1997-S40	2450589.85	1997 May 21 0827	Minuteman 3	-	-	Mk 12A RV x 2/SHARP	FOT GT164GM/SHARP	GLORY TRIP 164GM	-	V	LF04	-	-	1300?	-	KMR/BOA
1997-S46	2450617.92	1997 Jun 18 1001	Minuteman 3	-	-	Mk 12 RV x 3?	FOT GT165GM	GLORY TRIP 165GM	-	V	LF10	-	-	1300?	-	KMR/BOA
1997-S47	2450623.65	1997 Jun 24 0339	Minuteman 2	-	MSLS IFT-1A	MSLS IFT-1A	MSLS IFT-1A	-	-	V	LF03	-	-	1600	-	KMR
1998-S02	2450829.64	1998 Jan 16 0325	Minuteman 2	-	MSLS IFT-2	MSLS IFT-2	MSLS IFT-2	-	-	V	LF03	-	-	1600	-	KMR
1998-S19	2450864.85	1998 Feb 20 0818	Minuteman 3	-	-	Mk 12A RV x 2	FOT GT166GM	GLORY TRIP 166GM	-	V	LF04	-	-	1000?	-	(KMR)
1998-S45	2450968.33	1998 Jun 3 1957	Minuteman 3	-	-	Mk 12/12A RV x 3?	FOT GT167GB	GLORY TRIP 167GB	-	V	LF26	-	-	1300?	-	KMR
1998-S48	2450988.83	1998 Jun 24 0801	Minuteman 3	-	-	Mk 12A RV x 3	GRP-IDF-1	GRP-IDF-1	-	V	LF09	-	-	1300?	-	KMR
1998-S49	2450989.03	1998 Jun 24 1246	Minuteman 3	-	-	Mk 12/12A RV x 3	FOT GT168GM (GB?)	GLORY TRIP 168GM	-	V	LF10	-	-	1300?	-	KMR
1998-S53	2451074.83	1998 Sep 18 0801	Minuteman 3	-	-	Mk 12/12A RV x 3?	GRP-IDF-2	GRP-IDF-2	-	V	LF26	-	-	1300?	-	KMR
1999-S08	2451219.84	1999 Feb 10 0806	Minuteman 3	-	-	Mk 12/12A RV	FDEP GT169GM	GLORY TRIP 169GM	-	V	LF04	-	-	1300?	-	KMR
1999-S54	2451410.87	1999 Aug 20 0845:59	Minuteman 3	-	-	Mk 12/12A RV x 2/RCT-1	RCT-1 GT170GM-1/RRF-6	GLORY TRIP 170GM-1	-	V	LF10	-	-	1300?	-	KMR/BOA
1999-S55	2451410.98	1999 Aug 20 1127:00	Minuteman 3	-	-	Mk 12A RV x 3	FOT GT171GM	GLORY TRIP 171GM	-	V	LF09	-	-	1300?	-	KMR
1999-S67	2451454.58	1999 Oct 3 0201	Minuteman 2	-	MSLS IFT-3	MSLS IFT-3	MSLS IFT-3	-	-	V	LF03	-	-	1600	-	KMR
1999-S74	2451495.85	1999 Nov 13 0819	Minuteman 3	-	SPO/576FTS	Mk 12/12A RV x 3	PRP FTM-01	PRP FTM-01	-	V	LF26	-	-	1300?	-	KMR
2000-S02	2451562.60	2000 Jan 19 0219	Minuteman 2	-	MSLS IFT-4	MSLS IFT-4	MSLS IFT-4	-	-	V	LF03	-	-	1600	-	KMR
2000-004	2451570.63	2000 Jan 27 0303:06	Minotaur I	-	1	P98-1 JAWSAT	JAWSAT	-	-	VS	SLC8	-	-	814	-	-
2000-S31	2451688.83	2000 May 24 0801	Minuteman 3	-	SPO/576FTS	Mk 12/12A RV x 3	PRP FTM-02	PRP FTM-02	-	V	LF09	-	-	1300?	-	(KMR)
2000-S32	2451693.33	2000 May 28 2000	Minotaur II	-	TLV Demo	TLV CFE	OSPTLV 1	-	-	V	LF06	-	-	1300?	-	KMR
2000-S33	2451704.83	2000 Jun 9 0801	Minuteman 3	-	-	Mk 12A RV x 3?	FOT GT172GM	GLORY TRIP 172GM	-	V	LF10	-	-	1300?	-	KMR
2000-S41	2451733.68	2000 Jul 8 0419	Minuteman 2	-	MSLS IFT-5	MSLS IFT-5	MSLS IFT-5	-	-	V	LF03	-	-	1300?	-	KMR
2000-042	2451745.34	2000 Jul 19 2009:00	Minotaur I	-	2	Mightysat 2.1	Mightysat 2.1	-	-	VS	SLC8	-	-	586	-	-
2000-S56	2451815.83	2000 Sep 28 0801	Minuteman 3	-	-	Mk 12A RV x2/SHARP	GT173GM/SHARP-B2	GLORY TRIP 173GM	-	V	LF09	-	-	1300?	-	KMR
2000-S57	2451815.92	2000 Sep 28 1001	Minuteman 3	-	-	Mk 12A RV x2/RCT-2	GT174GM/RCT-2 FOT	GLORY TRIP 174GM	-	V	LF04	-	-	1300?	-	KMR/BOA
2001-S06	2451947.89	2001 Feb 7 0928	Minuteman 3	-	-	Mk 12/12A RV x3	FDEP GT175GM	GLORY TRIP 175GM	-	V	LF10	-	-	1300?	-	KMR
2001-S35	2452105.61	2001 Jul 15 0240	Minuteman 2	-	MSLS IFT-6	MSLS IFT-6	GMDS	-	-	V	LF03	-	-	1600	-	KMR
2001-S50	2452220.84	2001 Nov 7 0815	Minuteman 3	-	-	Mk 12A RV x 3?	FDEP GT176GM	GLORY TRIP 176GM	-	V	LF04	-	-	1300?	-	KMR
2001-S51	2452247.62	2001 Dec 4 0259	Minotaur II	-	TLV-1	MSLS IFT-7	GMDS IFT-7	-	-	V	LF06	-	-	1600?	-	KMR
2002-S18	2452349.59	2002 Mar 16 0211	Minotaur II	-	TLV-2	MSLS IFT-8	GMDS IFT-8	-	-	V	LF06	-	-	1600?	-	KMR
2002-S23	2452372.90	2002 Apr 8 0929	Minuteman 3	-	-	Mk 12/12A RV x 3?	FDEP GT178GM	GLORY TRIP 178GM	-	V	LF10	-	-	1300?	-	KMR
2002-S41	2452432.85	2002 Jun 7 0824	Minuteman 3	-	-	Mk 12/12A RV x 3	FDEP GT179GM	GLORY TRIP 179GM	-	V	LF26	-	-	1300?	-	KMR
2002-S54	2452472.84	2002 Jul 17 0803	Minuteman 3	-	-	Mk 12/12A RV x 2	FDEP GT177GM	GLORY TRIP 177GM	-	V	LF09	-	-	1300?	-	KMR
2002-S59	2452537.60	2002 Sep 20 0231	Minuteman 3	-	-	Mk 12/12A RV x 2	FDEP GT180GM	GLORY TRIP 180GM	-	V	LF04	-	-	1300?	-	KMR/BOA
2002-S66	2452562.58	2002 Oct 15 0201	Minotaur II	-	TLV-3	MSLS IFT-9	GMDS IFT-9	-	-	V	LF06	-	-	1600?	-	KMR
2002-S78	2452619.85	2002 Dec 11 0826	Minotaur II	-	TLV-4	MSLS IFT-10	GMDS IFT-10	-	-	V	LF06	-	-	1600?	-	KMR
2003-S24	2452801.83	2003 Jun 11 0801	Minuteman 3	-	-	Mk 12/12A RV x 3	FDEP GT182GM	GLORY TRIP 182GM	-	V	LF04	-	-	1300?	-	KMR
2003-S37	2452857.88	2003 Aug 6 0906	Minuteman 3	-	-	Mk 12/12A RV x 3	FDEP GT183GB	GLORY TRIP 183GB	-	V	LF26	-	-	1300?	-	KMR
2003-S41	2452892.98	2003 Sep 10 1131	Minuteman 3	-	-	Mk 12/12A RV x 3	FDEP GT181GM	GLORY TRIP 181GM	-	V	LF10	-	-	1300?	-	KMR
2004-S23	2453179.86	2004 Jun 23 0832	Minuteman 3	-	-	Mk 12/12A RV	FDEP GT185GM	GLORY TRIP 185GM	-	V	LF10	-	-	1300?	-	KMR
2004-S27	2453209.86	2004 Jul 23 0837	Minuteman 3	-	-	Mk 12/12A RV	FDEP GT184GM-1	GLORY TRIP 184GM-1	-	V	LF09	-	-	1300?	-	KMR
2004-S44	2453263.83	2004 Sep 15 0801	Minuteman 3	-	-	Mk 12/12A RV x 3	FDEP GT186GB	GLORY TRIP 186GB	-	V	LF26	-	-	1300?	-	KMR
2005-011	2453472.07	2005 Apr 11 1335	Minotaur I	-	3	XSS-11	USA 165 (XSS-11)	-	-	VS	SLC8	-	-	873	-	-
2005-S30	2453572.83	2005 Jul 21 0801	Minuteman 3	-	-	Mk 21 RV	SERV-1-1	-	-	V	LF10	-	-	1300?	-	KMR
2005-S35	2453607.83	2005 Aug 25 0801	Minuteman 3	-	-	Mk 21 RV	SERV-2	-	-	V	LF26	-	-	1300?	-	KMR
2005-S36	2453620.87	2005 Sep 7 0853	Minuteman 3	-	-	Mk 12A RV x 2	FDEP GT187GM-1	GLORY TRIP 187GM-1	-	V	LF04	-	-	1300?	-	KMR
2005-S37	2453627.83	2005 Sep 14 0801	Minuteman 3	-	-	Mk 12A RV?	FDEP GT189GM	GLORY TRIP 189GM	-	V	LF09	-	-	1300?	-	KMR
2005-037	2453636.60	2005 Sep 23 0224:29	Minotaur I	-	4	Streak	Streak (STP-R1)	-	-	VS	SLC8	-	-	348	-	-
2006-S04	2453782.83	2006 Feb 16 0801	Minuteman 3	-	-	Mk 21 RV	SERV-3	-	-	V	LF10	-	-	1300?	-	KMR
2006-S13	2453833.04	2006 Apr 7 1300	Minuteman 3	-	-	Mk 12 RV?	FDEP GT190GB	GLORY TRIP 190GB	-	V	LF26	-	-	1300?	-	GUAM
2006-011	2453840.57	2006 Apr 15 0140:00	Minotaur I	-	5	FORMOSAT 3 FM6	COSMIC	-	-	VS	SLC8	-	-	853	-	-
2006-S27	2453900.85	2006 Jun 14 0822	Minuteman 3	-	-	Mk 12 RV	FDEP GT191GM	GLORY TRIP 191GM	-	V	LF04	-	-	1300?	-	KMR
2006-S43	2453936.93	2006 Jul 20 1014	Minuteman 3	-	-	Mk 12A RV x 3	FDEP GT192GM	GLORY TRIP 192GM	-	V	LF09	-	-	1300?	-	KMR
2006-058	2454086.00	2006 Dec 16 1200:00	Minotaur I	-	6	Tacsat 2	Tacsat-2	-	-	MARS	Pad 0B	-	-	426	-	-
2007-S09	2454138.84	2007 Feb 7 0814	Minuteman 3	-	-	Mk 21 RV	GT193GM	GLORY TRIP 193GM	-	V	LF10	-	-	1300?	-	KMR
2007-S17	2454180.69	2007 Mar 21 0427	Minotaur II	-	TLV-5	TLV Target	FTX-02 SBR Target	-	-	V	LF06	-	-	1300?	-	POR?
2007-014	2454214.78	2007 Apr 24 0648	Minotaur I	-	7	NFIRE	NFIRE	-	-	MARS	Pad 0B	-	-	497	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-S34	2454335.85	2007 Aug 23 0831	Minotaur II+	-	TLV-7	TLV Target	NFIRE 2a	-	-	V	LF06	-	-	1300?	-	-
2008-S13	2454558.83	2008 Apr 2 0801	Minuteman 3	-	-	Mk 21 RV?	GT196GM	GLORY TRIP 196GM	-	V	LF09	-	-	1300?	-	KMR
2008-S24	2454608.92	2008 May 22 1004	Minuteman 3	-	-	Mk 21 RV?	GT197GM	GLORY TRIP 197GM	-	V	LF10	-	-	1300?	9750	GUAM
2008-S38	2454691.83	2008 Aug 13 0801	Minuteman 3	-	-	2 x Mk12A,1 x Mk 21?	GT194GM-1	GLORY TRIP 194GM-1	-	V	LF04	-	-	1300?	-	KMR
2008-S45	2454733.79	2008 Sep 24 0657	Minotaur II+	-	TLV-8 Chimera	TLV Target	NFIRE 2b	-	-	V	LF06	-	-	1300?	-	KMR
2008-S59	2454775.88	2008 Nov 5 0900	Minuteman 3	-	-	Mk 21 RV?	GT198GM	GLORY TRIP 198GM	-	V	LF09	-	-	1300?	-	KMR
2009-028	2454971.50	2009 May 19 2355	Minotaur I	-	8	Tacsat 3	Tacsat 3	-	-	MARS	Pad 0B	-	-	467	-	-
2009-S31	2455011.92	2009 Jun 29 1001	Minuteman 3	-	-	Mk 12A RV x 3	GT199GM	GLORY TRIP 199GM	-	V	LF04	-	-	1300?	-	KMR
2009-S43	2455067.17	2009 Aug 23 1601	Minuteman 3	-	-	Mk 12/21 RV?	GT195GM-2	GLORY TRIP 195GM-2	-	V	LF09	-	-	1300?	-	KMR
2010-S42	2455363.92	2010 Jun 16 1001	Minuteman 3	-	-	Mk 21 RV	GT200GM-1	GLORY TRIP 200GM-1	-	V	LF10	-	-	1300?	-	KMR
2010-S44	2455377.94	2010 Jun 30 1040:01	Minuteman 3	-	-	Mk 21 RV	GT201GM	GLORY TRIP 201GM	-	V	LF04	-	-	1300?	-	KMR
2010-S56	2455456.92	2010 Sep 17 1003	Minuteman 3	-	-	Mk 21 RV	GT202GM	GLORY TRIP 220GM	-	V	LF09	-	-	1300?	-	GUAM
2011-006	2455599.02	2011 Feb 6 1226	Minotaur I	-	9	RPP	USA 225	NROL-66	-	VS	SLC8	-	-	1230	-	-
2011-S23	2455735.07	2011 Jun 22 1335	Minuteman 3	-	-	Mk 12/21 RV?	GT204GM	GLORY TRIP 204GM	-	V	LF10	-	-	1300?	-	KMR
2011-029	2455742.63	2011 Jun 30 0309:00	Minotaur I	-	10	ORS-1	ORS-1	-	-	MARS	Pad 0B	-	-	444	-	-
2011-S33	2455769.92	2011 Jul 27 1001	Minuteman 3	-	-	Mk 12/21 RV?	GT205GM	GLORY TRIP 205GM	-	V	LF04	-	-	500?	-	(KMR)
2012-S07	2455982.95	2012 Feb 25 1046	Minuteman 3	-	-	Mk 12/21 RV?	GT203GM	GLORY TRIP 203GM	-	V	LF09	-	-	1300?	-	KMR
2012-S66	2456245.96	2012 Nov 14 1107:01	Minuteman 3	-	-	Mk 12/21 RV?	GT206GM	GLORY TRIP 206GM	-	V	LF10	-	-	1300?	-	KMR
2013-S37	2456435.06	2013 May 22 1327	Minuteman 3	-	-	Mk 12/21 RV?	GT207GM	GLORY TRIP 207GM	-	V	LF04	-	-	1300?	-	KMR
2013-S79	2456557.92	2013 Sep 22 1001:00	Minuteman 3	-	-	Mk 12/21 RV?	GT209GM	GLORY TRIP 209GM	-	V	LF10	-	-	1300?	-	KMR
2013-S86	2456561.94	2013 Sep 26 1033	Minuteman 3	-	-	Mk 12/21 RV?	GT208GM-1	GLORY TRIP 208GM-1	-	V	LF09	-	-	1300?	-	KMR
2013-064	2456616.55	2013 Nov 20 0115	Minotaur I	-	11	ORS-3/STPSAT-3	ORS-3	-	-	MARS	Pad 0B	-	-	522	-	-
2013-S103	2456644.02	2013 Dec 17 1236	Minuteman 3	-	-	Mk 12/21 RV?	GT210GM	GLORY TRIP 210GM	-	V	LF04	-	-	1300?	-	KMR
2014-S57	2456924.11	2014 Sep 23 1445:00	Minuteman 3	-	-	Mk 12/21 RV?	GT211GM	GLORY TRIP 211GM	-	V	LF09	-	-	1300?	-	KMR
2015-S19	2457104.94	2015 Mar 23 1036:00	Minuteman 3	-	-	Mk 12/21 RV?	GT214GM	GLORY TRIP 214GM	-	V	LF10	-	-	1300?	-	GUAM
2015-S23	2457108.95	2015 Mar 27 1053:59	Minuteman 3	-	-	Mk 12/21 RV?	GT215GM	GLORY TRIP 215GM	-	V	LF04	-	-	1300?	-	GUAM
2015-S31	2457162.94	2015 May 20 1037:00	Minuteman 3	-	-	Mk 12/21 RV?	GT212GM	GLORY TRIP 212GM	-	V	LF09	-	-	1300?	-	KMR
2015-S44	2457253.92	2015 Aug 19 1003:00	Minuteman 3	-	-	Mk 12/21 RV?	GT213GM	GLORY TRIP 213GM	-	V	LF10	-	-	1300?	-	KMR
2015-S55	2457317.03	2015 Oct 21 1245:00	Minuteman 3	-	-	Mk 12/21 RV?	GT216GM	GLORY TRIP 216GM	-	V	LF04	-	-	1300?	-	KMR
2016-S07	2457439.82	2016 Feb 21 0734:02	Minuteman 3	-	-	Mk 12/21 RV?	GT217GM	GLORY TRIP 217GM	-	V	LF09	-	-	1300?	-	KMR BOA
2016-S08	2457444.79	2016 Feb 26 0701:00	Minuteman 3	-	-	Mk 12/21 RV?	GT218GM	GLORY TRIP 218GM	-	V	LF10	-	-	1300?	-	KMR
2016-S55	2457636.88	2016 Sep 5 0910	Minuteman 3	-	-	Mk 12/21 RV?	GT219GM	GLORY TRIP 219GM	-	V	LF04	-	-	1300?	-	KMR
2017-S09	2457793.82	2017 Feb 9 0738:59	Minuteman 3	-	-	Mk 12A RV x 3	GT221GM	GLORY TRIP 221GM	-	V	LF10	-	-	1300?	-	KMR
2017-S28	2457869.79	2017 Apr 26 0703:06	Minuteman 3	-	-	Mk 12/21 RV?	GT220GM	GLORY TRIP 220GM	-	V	LF09	-	-	1300?	-	KMR
2017-S32	2457876.79	2017 May 3 0701:59	Minuteman 3	-	-	Mk 12/21 RV?	GT222GM	GLORY TRIP 222GM	-	V	LF04	-	-	1300?	-	KMR
2017-S67	2457967.88	2017 Aug 2 0910:00	Minuteman 3	-	-	Mk 12/21 RV?	GT223GM	GLORY TRIP 223GM	-	V	LF10	-	-	1300?	-	KMR
2018-S23	2458234.02	2018 Apr 25 1226	Minuteman 3	-	-	Mk 12A RV x 3	GT226GM	GLORY TRIP 226GM	-	V	LF10	-	-	1300?	-	KMR
2018-S25	2458252.85	2018 May 14 0823	Minuteman 3	-	-	Mk 12/21 RV?	GT224GM	GLORY TRIP 224GM	-	V	LF04	-	-	1300?	-	KMR
2018-S43	2458330.98	2018 Jul 31 1138	Minuteman 3	-	-	Mk 12/21 RV?	GT225GM	GLORY TRIP 225GM	-	V	LF09?	-	-	200?	-	KMR
2018-S68	2458429.79	2018 Nov 7 0701	Minuteman 3	-	-	Mk 12/21 RV?	GT228GM	GLORY TRIP 228GM	-	V	LF10	-	-	1300?	-	KMR
2019-S06	2458520.79	2019 Feb 6 0701	Minuteman 3	-	-	Mk 21 RV	FTU-1	FTU-1	-	V	LF04	-	-	1300?	-	KMR BOA2
2019-S19	2458604.90	2019 May 1 0942	Minuteman 3	-	-	Mk 12/21 RV?	GT230GM	GLORY TRIP 230GM	-	V	LF10	-	-	1300?	-	KMR
2019-S21	2458612.82	2019 May 9 0740	Minuteman 3	-	-	Mk 12/21 RV?	GT229GM	GLORY TRIP 229GM	-	V	LF09	-	-	1300?	-	KMR?
2019-S58	2458758.84	2019 Oct 2 0813	Minuteman 3	-	-	Mk 12/21 RV?	GT232GM	GLORY TRIP 232GM	-	V	LF10	-	-	1300?	-	KMR
2020-S13	2458884.86	2020 Feb 5 0833	Minuteman 3	-	-	Mk 12/21 RV?	FTU-2	FTU-2	-	V	LF04	-	-	1300?	-	KMR
2020-S23	2459065.81	2020 Aug 4 0721	Minuteman 3	-	-	Mk 12A RV x 3	GT235GM	GLORY TRIP 235GM	-	V	LF10	-	-	1300?	-	KMR BOA
2020-S27	2459094.79	2020 Sep 2 0703	Minuteman 3	-	-	Mk 12/21 RV?	GT233GM	GLORY TRIP 233GM	-	V	LF04	-	-	1300?	-	KMR BOA
2020-S36	2459151.81	2020 Oct 29 0727	Minuteman 3	-	-	Mk 12/21 RV?	GT236GM-1	GLORY TRIP 236GM-1	-	V	LF09	-	-	1300?	-	KMR
2021-S17	2459269.83	2021 Feb 24 0749	Minuteman 3	-	-	Mk 12/21 RV?	GT237GM	GLORY TRIP 237GM	-	V	LF10	-	-	1300?	-	KMR
2021-052	2459381.07	2021 Jun 15 1335	Minotaur I	-	12	USA 316/317/318	NROL-111	NROL-111	-	MARS	Pad 0B	-	-	608	-	-
2021-S52	2459437.83	2021 Aug 11 0753	Minuteman 3	-	-	Mk 12/21 RV?	GT239GM	GLORY TRIP 239GM	-	V	LF09	-	-	1300?	-	KMR
2022-A17	2459767.75	2022 Jul 7 0601	Minotaur II+	-	-	Mk 21A RV	Mk 21A R&D Test	-	-	V	TP-01	-	-	0	-	KMR
2022-S80	2459807.83	2022 Aug 16 0749	Minuteman 3	-	-	Mk 12/21 RV?	GT243GM	GLORY TRIP 243GM	-	V	LF09	-	-	1300?	-	KMR
2022-S84	2459829.84	2022 Sep 7 0813	Minuteman 3	-	-	Mk 12A RV x 3	GT244GM	GLORY TRIP 244GM	-	V	LF10	-	-	1300?	-	KMR
2023-S01	2459985.79	2023 Feb 10 0701	Minuteman 3	-	-	Mk 12/21 RV?	GT245GM	GLORY TRIP 245GM	-	V	LF10	-	-	1300?	-	KMR
2023-S19	2460054.01	2023 Apr 19 1211	Minuteman 3	-	-	Mk 12/21 RV?	GT246	GLORY TRIP 246	-	V	LF09	-	-	1300?	-	KMR
2023-S37	2460193.85	2023 Sep 6 0826	Minuteman 3	-	-	Mk 12A RV x 3	GT247	GLORY TRIP 247	-	V	LF10	-	-	1300?	-	KMR
2023-S53	2460249.79	2023 Nov 1 0701	Minuteman 3	-	-	Mk 12/21 RV?	GT248	GLORY TRIP 248?	-	V	LF09?	-	-	100?	-	KMR
2024-S35	2460465.83	2024 Jun 4 0756	Minuteman 3	-	-	Mk 12/21 RV?	GT249	GLORY TRIP 249	-	V	LF10	-	-	1300?	-	KMR
2024-S36	2460467.87	2024 Jun 6 0846	Minuteman 3	-	-	Mk 12/21 RV?	GT250	GLORY TRIP 250	-	V	LF09	-	-	1300?	-	KMR
2024-S39	2460479.79	2024 Jun 18 0701	Minotaur I Lite	?	13	Mk 21A RV	-	-	-	V	TP-01	-	-	1000?	-	KMR
2024-S66	2460620.79	2024 Nov 6 0701	Minuteman 3	-	-	Mk 12A RV x 3	GT251	GLORY TRIP 251	-	V	LF10	-	-	1300?	-	KMR 168E 9N
2025-S07	2460725.88	2025 Feb 19 0900	Minuteman 3	-	-	Mk 12/21 RV?	GT252?	GLORY TRIP 252	-	V	LF09	-	-	1300?	-	KMR
2025-S23	2460816.79	2025 May 21 0701	Minuteman 3	-	-	Mk 12/21 RV?	GT253	GLORY TRIP 253	-	V	LF10	-	-	1300?	-	KMR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A159	2436826.50	1959 Sep 15	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1959-A168	2436843.50	1959 Oct 2	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1959-A177	2436863.50	1959 Oct 22	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1959-A209	2436924.50	1959 Dec 22	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1960-A21	2436960.50	1960 Jan 27	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1960-A61	2436997.50	1960 Mar 4	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1960-A91	2437029.50	1960 Apr 5	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1960-A118	2437061.61	1960 May 7 0233	Minuteman 1A	T	-	0.000	AFBMD	MS	-	-	Test	Rigg	CBMO	-
1961-S33	2437332.17	1961 Feb 1 1559	Minuteman 1A	-	401	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1961-S154	2437439.10	1961 May 19 1418	Minuteman 1A	-	402	0.000	AFBSL	MF	U	-	Test	CBMO/Wire	-	-
1961-S222	2437508.13	1961 Jul 27 1509	Minuteman 1A	-	403	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1961-A192	2437542.23	1961 Aug 30 1730	Minuteman 1A	-	404	0.000	AFBSL	MF	S1	-	Test	CBMO/Wire	-	-
1961-S379	2437621.14	1961 Nov 17 1515	Minuteman 1A	-	405	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1961-S429	2437652.04	1961 Dec 18 1304	Minuteman 1A	-	406	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1962-S09	2437670.13	1962 Jan 5 1500:02	Minuteman 1A	-	407	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1962-S24	2437690.12	1962 Jan 25 1459:48	Minuteman 1A	-	408	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1962-S38	2437711.15	1962 Feb 15 1535:53	Minuteman 1A	-	410	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1962-S64	2437732.14	1962 Mar 8 1523:51	Minuteman 1A	-	409	0.000	AFBSL	MS	-	-	Test	CBMO/nsf-koenn	-	-
1962-S74	2437746.56	1962 Mar 23 0130:02	Minuteman 1A	-	411	0.000	AFBSL	MS	-	-	Test	NRL-5825	CMBO	-
1962-A58	2437779.58	1962 Apr 25 0159:45	Minuteman 1A	-	412	0.000	AFBSL	MF	U	-	Test	nsf-koenn	CMBO	-
1962-S128	2437796.13	1962 May 11 1500:02	Minuteman 1A	-	413	0.000	AFBSL	MS	-	-	Test	nsf-koenn	CMBO	-
1962-S134	2437803.58	1962 May 19 0159:59	Minuteman 1A	-	414	0.000	AFBSL	MS	-	-	Test	nsf-koenn	CMBO	-
1962-S178	2437824.23	1962 Jun 8 1735:01	Minuteman 1A	-	415	0.000	AFBSL	MS	-	-	Test	nsf-koenn	CMBO	-
1962-S207	2437844.74	1962 Jun 29 0540:00	Minuteman 1A	-	416	0.000	AFBSL	MS	-	-	Test	CBMO/Wire	-	-
1962-A110	2437858.63	1962 Jul 13 0303:10	Minuteman 1A	-	417	0.000	AFBSL	MF	S1	-	Test	nsf-koenn	CMBO	-
1962-A133	2437886.13	1962 Aug 9 1505:02	Minuteman 1A	-	418	0.000	AFBSL	MF	S1	-	Test	nsf-koenn	CMBO	-
1962-S336	2437926.63	1962 Sep 19 0306:22	Minuteman 1A	-	421	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CMBO	-
1962-S337	2437927.66	1962 Sep 20 0345:41	Minuteman 1A	-	420	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CMBO	-
1962-M23	2437936.38	1962 Sep 28 2101	Minuteman 1A	-	503	0.000	AFBSD	MF	U	-	Test	CBMO/Wire	-	-
1962-A172	2437955.54	1962 Oct 18 0051:54	Minuteman 1A	-	422	0.000	AFBSD	MF	S1	-	Test	CBMO/Wire	-	-
1962-S482	2437988.21	1962 Nov 19 1700:11	Minuteman 1A	-	421A	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1962-S541	2438006.13	1962 Dec 7 1500:01	Minuteman 1B	-	424	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1962-A216	2438009.33	1962 Dec 10 2000?	Minuteman 1A	-	502	0.000	AFBSD	MF	U	-	Test	CBMO/Wire	-	-
1962-S563	2438013.63	1962 Dec 15 0300:10	Minuteman 1B	-	423	0.000	AFBSD	MS	-	-	Test	CBMO/Wire	-	-
1962-M42	2438019.52	1962 Dec 21 0035:15	Minuteman 1A	-	426	0.000	AFBSD	MF	S2	-	Test	CBMO/Wire	-	-
1963-S09	2438037.44	1963 Jan 7 2230:10	Minuteman 1B	-	423A	0.000	AFBSD	MF	S1	-	Test	nsf-koenn	CBMO	-
1963-S19	2438053.26	1963 Jan 23 1810:13	Minuteman 1B	-	419	0.000	AFBSD	MS	-	-	Test	CBMO/Wire	-	-
1963-S57	2438081.54	1963 Feb 21 0100:04	Minuteman 1A	-	421B	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1963-S103	2438107.56	1963 Mar 19 0129:59	Minuteman 1B	-	425	0.000	AFBSD	MF	S3	-	Test	nsf-koenn	CBMO	-
1963-S114	2438116.56	1963 Mar 28 0130:00	Minuteman 1B	-	419A	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1963-S141	2438130.59	1963 Apr 11 0208:59	Minuteman 1B	-	425A	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR/Wire	-
1963-S143	2438131.35	1963 Apr 11 2030	Minuteman 1A	-	534	0.000	AFBSD	MS	-	-	Test	CBMO/Wire	-	-
1963-S145	2438131.50	1963 Apr 12	Minuteman 1A	-	565	0.000	AFBSD	MS	-	-	Test	CBMO	-	-
1963-S168	2438142.50	1963 Apr 23	Minuteman 1A	-	585	0.000	AFBSD	MS	-	-	Test	CBMO	-	-
1963-S184	2438149.50	1963 Apr 30	Minuteman 1A	-	595	0.000	AFBSD	MS	-	-	Test	CBMO	-	-
1963-S191	2438158.58	1963 May 9 0200?	Minuteman 1A	-	604	0.000	AFBSD	MS	-	-	Test	Ulrich/Wire	CBMO	-
1963-A78	2438167.72	1963 May 18 0514:00	Minuteman 1B	-	425B	0.000	AFBSD	MF	U	-	Test	nsf-koenn	CBMO/Wire	-
1963-S232	2438174.74	1963 May 25 0550?	Minuteman 1B	-	658	0.000	AFBSD	MS	-	-	Test	Wire	CBMO	-
1963-S242	2438178.70	1963 May 29 0448:14	Minuteman 1B	-	428	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO/Wire	-
1963-S260	2438186.68	1963 Jun 6 0414:59	Minuteman 1B	-	427	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO/Wire	-
1963-S281	2438198.50	1963 Jun 18	Minuteman 1A	-	521	0.000	1STRAD	MS	-	-	Test	CBMO	-	-
1963-S302	2438208.61	1963 Jun 28 0234:12	Minuteman 1B	-	429	0.000	AFBSD	MS	-	-	Test	CBMO/Wire	-	-
1963-S306	2438209.50	1963 Jun 29	Minuteman 1A	-	546	0.000	1STRAD	MS	-	-	Test	Ulrich/Wire	CBMO	-
1963-S316	2438212.41	1963 Jul 1 2143:55	Minuteman 1B	-	431	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1963-S329	2438216.38	1963 Jul 5 2100	Minuteman 1A	-	518	0.000	AFBSD	MS	-	-	Test	CBMO/Wire	-	-
1963-S336	2438222.46	1963 Jul 11 2300	Minuteman 1A	-	650	0.000	1STRAD	MS	-	-	Test	CBMO/Wire	-	-
1963-A104	2438227.60	1963 Jul 17 0230:02	Minuteman 1B	-	430	0.000	AFBSD	MF	S1	-	Test	nsf-koenn	CBMO	-
1963-S353	2438235.65	1963 Jul 25 0330:13	Minuteman 1B	-	432	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1963-S363	2438237.50	1963 Jul 27	Minuteman 1A	-	514	0.000	1STRAD	MS	-	-	Test	CBMO	-	-
1963-S378	2438247.23	1963 Aug 5 1730:15	Minuteman 1B	-	433	0.000	AFBSD	MF	U	-	Test	nsf-koenn	CBMO/Wire	-
1963-S381	2438249.50	1963 Aug 8	Minuteman 1A	-	520	0.000	1STRAD	MS	-	-	Test	CBMO	-	-
1963-S407	2438269.21	1963 Aug 27 1702:23	Minuteman 1B	-	435	0.000	AFBSD	MS	-	-	Test	nsf-koenn	CBMO	-
1963-S410	2438271.50	1963 Aug 30 0000?	Minuteman 1B	-	625	0.000	AFBSD	MS	-	-	Test	ChiTrib630830	CBMO	-
1963-S459	2438299.55	1963 Sep 27 0115	Minuteman 1B	-	770	0.000	AFBSD	MS	-	-	Test	Wire	CBMO	-
1963-S476	2438307.50	1963 Oct 5	Minuteman 1B	-	695	0.000	AFBSD	MS	-	-	Test	Ulrich/VAFB	-	-
1963-S497	2438319.50	1963 Oct 17	Minuteman 1A	-	672	0.000	1STRAD	MF	U	-	OT	VAFB	-	Flew long
1963-S526	2438333.50	1963 Oct 31	Minuteman 1A	-	664	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1963-S534	2438335.50	1963 Nov 2	Minuteman 1A	-	613	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1963-A164	2438341.21	1963 Nov 7 1700:02	Minuteman 1B	-	434	0.000	AFBSD	MF	U	-	Test	ETR/Wire	-	-
1963-S549	2438347.19	1963 Nov 13 1627:57	Minuteman 1B	-	446	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1963-S570	2438360.50	1963 Nov 27	Minuteman 1B	-	842	0.000	1STRAD	MS	-	-	Test	VAFB	-	-
1963-S575	2438362.50	1963 Nov 29	Minuteman 1A	-	642	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1963-S600	2438376.50	1963 Dec 13	Minuteman 1B	-	854	0.000	1STRAD	MS	-	-	Test	VAFB	-	-
1963-S601	2438376.50	1963 Dec 13	Minuteman 1A	-	708	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1963-S606	2438381.62	1963 Dec 18 0300	Minuteman 1B	-	447	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1963-S611	2438383.50	1963 Dec 20	Minuteman 1A	-	515	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S23	2438404.50	1964 Jan 10	Minuteman 1B	-	883	0.000	1STRAD	MS	-	-	Test	VAFB	-	-
1964-S35	2438410.50	1964 Jan 16	Minuteman 1B	-	870	0.000	1STRAD	MS	-	-	Test	VAFB	-	-
1964-S34	2438411.52	1964 Jan 17 0029:59	Minuteman 1B	-	438	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S45	2438418.56	1964 Jan 24 0130	Minuteman 1A	-	551	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S55	2438423.46	1964 Jan 28 2301:38	Minuteman 1B	-	448	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S58	2438424.50	1964 Jan 30 0004:49	Minuteman 1B	-	808/64-111	0.000	1STRAD	MS	-	-	OT	SAC.ECHO.HILL	VAFB	-
1964-S84	2438436.50	1964 Feb 11	Minuteman 1A	-	692	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S85	2438438.57	1964 Feb 13 0136:22	Minuteman 1B	-	436	0.000	AFBSD	MS	-	-	Test	ETR	-	-
1964-S113	2438450.58	1964 Feb 25 0200	Minuteman 1B	-	813	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S114	2438450.61	1964 Feb 25 0245	Minuteman 1B	-	688	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S117	2438451.56	1964 Feb 26 0129:58	Minuteman 1B	-	437	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S121	2438453.59	1964 Feb 28 0204:14	Minuteman 1B	-	439	0.000	AFBSD	MS	-	-	Test	ETR/Wire	-	-
1964-S122	2438454.50	1964 Feb 29	Minuteman 1A	-	581	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S123	2438454.50	1964 Feb 29	Minuteman 1A	-	636	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S133	2438460.50	1964 Mar 6	Minuteman 1B	-	686	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S145	2438468.21	1964 Mar 13 1704:47	Minuteman 1B	-	440	0.000	AFBSD	MS	-	-	Test	ETR,Wire	-	-
1964-S159	2438475.22	1964 Mar 20 1720:11	Minuteman 1B	-	442	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S161	2438478.50	1964 Mar 24	Minuteman 1B	-	812	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-A41	2438479.50	1964 Mar 25	Minuteman 1B	-	738	0.000	1STRAD	MF	U	-	OT	VAFB	SP-4005	-
1964-S170	2438480.50	1964 Mar 26	Minuteman 1A	-	597	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S174	2438485.61	1964 Mar 31 0233:11	Minuteman 1B	-	441	0.000	AFBSD	MS	-	-	Test	ETR/Wire	-	-
1964-S178	2438485.50	1964 Mar 31	Minuteman 1A	-	557	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S190	2438493.55	1964 Apr 8 0112:56	Minuteman 1B	-	443	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S202	2438499.29	1964 Apr 13 1900?	Minuteman 1B	-	734	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S223	2438508.96	1964 Apr 23 1100	Minuteman 1B	-	917	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S225	2438510.34	1964 Apr 24 2014:17	Minuteman 1B	-	444	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S227	2438512.50	1964 Apr 27	Minuteman 1A	-	605	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S233	2438522.50	1964 May 7	Minuteman 1B	-	1002	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S238	2438526.50	1964 May 11	Minuteman 1A	-	718	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S249	2438533.50	1964 May 18	Minuteman 1B	-	997	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S262	2438540.50	1964 May 25	Minuteman 1B	-	889	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S285	2438555.50	1964 Jun 9	Minuteman 1A	-	532	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S290	2438557.50	1964 Jun 11	Minuteman 1A	-	715	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S295	2438562.03	1964 Jun 15 1240	Minuteman 1B	-	910	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S312	2438576.38	1964 Jun 29 2100	Minuteman 1B	-	1141	0.000	AFBSD	MS	-	-	Test	VAFB/Wire	-	-
1964-S313	2438576.50	1964 Jun 30 0000	Minuteman 1A	-	631	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S327	2438584.29	1964 Jul 7 1900?	Minuteman 1B	-	1007	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-A103	2438584.31	1964 Jul 7 1930?	Minuteman 1A	-	663	0.000	1STRAD	MF	U	-	OT	VAFB/Wire	-	-
1964-S336	2438586.29	1964 Jul 9 1900?	Minuteman 1B	-	973	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S343	2438589.50	1964 Jul 13	Minuteman 1B	-	861	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S383	2438603.50	1964 Jul 27	Minuteman 1A	-	617	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S407	2438614.50	1964 Aug 7	Minuteman 1B	-	998	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S430	2438624.50	1964 Aug 17	Minuteman 1A	-	556	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S440	2438628.50	1964 Aug 21	Minuteman 1B	-	1072	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S442	2438632.50	1964 Aug 25	Minuteman 1B	-	989	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S455	2438640.41	1964 Sep 1 2151	Minuteman 1A	-	668	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S460	2438647.49	1964 Sep 8 2340	Minuteman 1A	-	576	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S462	2438649.53	1964 Sep 11 0050	Minuteman 1B	-	1024	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S466	2438654.30	1964 Sep 15 1910	Minuteman 1B	-	1179	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S475	2438660.30	1964 Sep 21 1916	Minuteman 1B	-	1108	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S478	2438662.66	1964 Sep 24 0350	Minuteman 1B	-	906	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-S479	2438663.17	1964 Sep 24 1604:15	Minuteman 2	-	449	0.000	AFBSD	MS	-	-	Test	ETR/Wire	-	-
1964-S491	2438668.21	1964 Sep 29 1705	Minuteman 1B	-	994	0.000	1STRAD	MS	-	-	OT	Orthicon	VAFB	-
1964-A139	2438668.39	1964 Sep 29 2122:49	Minuteman 1B	-	445	0.000	AFBSD	MF	U	-	Test	nsf-koenn	ETR	-
1964-S548	2438698.19	1964 Oct 29 1628:13	Minuteman 2	-	450	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S563	2438702.50	1964 Nov 3 0000?	Minuteman 1B	-	853	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S564	2438702.52	1964 Nov 3 0035?	Minuteman 1B	-	644	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1964-S571	2438704.39	1964 Nov 4 2120	Minuteman 1A	-	537	0.000	1STRAD	MS	-	-	OT	AP	VAFB	-
1964-S575	2438704.50	1964 Nov 5	Minuteman 1B	-	873	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S587	2438705.50	1964 Nov 6	Minuteman 1B	-	960	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1964-S588	2438705.50	1964 Nov 6	Minuteman 1B	-	848	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S603	2438708.50	1964 Nov 9	Minuteman 1A	-	661	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S675	2438738.83	1964 Dec 9 0800?	Minuteman 1B	-	1101	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1964-S676	2438739.33	1964 Dec 9 2000?	Minuteman 1B	-	1163	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S679	2438745.25	1964 Dec 15 1759:59	Minuteman 2	-	451	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1964-S693	2438747.50	1964 Dec 18	Minuteman 1B	-	1057	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1964-S692	2438748.55	1964 Dec 19 0106:12	Minuteman 2	-	452	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S40	2438781.33	1965 Jan 20 1950	Minuteman 1B	-	777	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1965-S56	2438789.56	1965 Jan 29 0121:15	Minuteman 2	-	453	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S67	2438793.50	1965 Feb 2	Minuteman 1B	-	714	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S68	2438793.50	1965 Feb 2	Minuteman 1B	-	1041	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S84	2438800.35	1965 Feb 8 2021	Minuteman 1B	-	1142	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1965-A43	2438821.29	1965 Mar 1 1900	Minuteman 1B	-	-	0.000	44SMW	MS	-	-	Test	MR650309-10/Wire	MR650301	-
1965-S120	2438821.55	1965 Mar 2 0110	Minuteman 1B	-	1093	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S142	2438827.50	1965 Mar 8	Minuteman 1B	-	1132	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S162	2438835.50	1965 Mar 16	Minuteman 1B	-	801	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S189	2438845.47	1965 Mar 25 2311	Minuteman 1B	-	756	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1965-S224	2438860.84	1965 Apr 10 0810	Minuteman 1B	-	1150	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S229	2438864.38	1965 Apr 13 2100?	Minuteman 1B	-	851	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S230	2438864.38	1965 Apr 13 2100?	Minuteman 1B	-	1165	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S267	2438881.42	1965 Apr 30 2200?	Minuteman 1B	-	730	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S276	2438888.58	1965 May 8 0159:59	Minuteman 2	-	455	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S278	2438890.50	1965 May 10	Minuteman 1B	-	1003	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S295	2438898.50	1965 May 18	Minuteman 1B	-	1115	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S311	2438906.58	1965 May 26 0200:00	Minuteman 2	-	456	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S333	2438913.94	1965 Jun 2 1040	Minuteman 1B	-	1054	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S346	2438918.50	1965 Jun 7	Minuteman 1B	-	810	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S351	2438921.50	1965 Jun 10	Minuteman 1B	-	669	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1965-S372	2438934.50	1965 Jun 23	Minuteman 1B	-	1033	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S389	2438941.00	1965 Jun 29 1200	Minuteman 1B	-	1148	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1965-S417	2438943.50	1965 Jul 2	Minuteman 1B	-	799	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S419	2438947.50	1965 Jul 6	Minuteman 1B	-	1069	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1965-S442	2438976.65	1965 Aug 4 0341:10	Minuteman 2	-	457	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S470	2438990.98	1965 Aug 18 1130	Minuteman 2	-	2001	0.000	AFBSD	MS	-	-	Test	VAFB/Wire	-	-
1965-S473	2438996.33	1965 Aug 23 2000:27	Minuteman 2	-	454	0.000	AFBSD	MS	-	-	Test	GT5-TEC	-	-
1965-S475	2438997.19	1965 Aug 24 1637:28	Minuteman 1A	-	677	0.000	1STRAD	MS	-	-	Test	GT5-TEC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S477	2438998.19	1965 Aug 25 1628:07	Minuteman 1A	-	509	0.000	1STRAD	MF	U	-	OT	GT5-TEC	-	St3.ftig
1965-S510	2439028.60	1965 Sep 25 0220:13	Minuteman 2	-	458	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S532	2439035.54	1965 Oct 2 0059:59	Minuteman 2	-	459	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1965-S544	2439039.50	1965 Oct 6	Minuteman 2	-	2002	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1965-S603	2439073.50	1965 Nov 9	Minuteman 2	-	2009	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1965-S681	2439109.22	1965 Dec 14 1723	Minuteman 1A	-	516	0.000	1STRAD	MS	-	-	OT	AP	GT7-TEC	-
1965-S682	2439110.59	1965 Dec 16 0210	Minuteman 2	-	2017	0.000	AFBSD	MS	-	-	Test	Ulrich/Wire	VAFB	-
1966-S58	2439130.52	1966 Jan 5 0030:01	Minuteman 2	-	461	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1966-S65	2439143.50	1966 Jan 18	Minuteman 2	-	2053	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1966-S74	2439147.50	1966 Jan 22	Minuteman 2	-	2022	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1966-S82	2439152.50	1966 Jan 27	Minuteman 1B	-	1243	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S108	2439167.54	1966 Feb 11 0100:04	Minuteman 2	-	460	0.000	AFBSD	MS	-	-	Test	ETR/Wire	-	-
1966-S109	2439168.53	1966 Feb 12 0039	Minuteman 1B	-	1387	0.000	1STRAD	MS	-	-	OT	Ulrich/Wire	VAFB	-
1966-S112	2439172.50	1966 Feb 16	Minuteman 2	-	2033	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1966-S129	2439181.32	1966 Feb 24 1940	Minuteman 1A	-	529 (63-005)	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S130	2439181.32	1966 Feb 24 1940	Minuteman 1A	-	629 (63-112)	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S152	2439192.50	1966 Mar 8	Minuteman 1B	-	1362	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S160	2439195.50	1966 Mar 11	Minuteman 1B	-	1211	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S170	2439201.50	1966 Mar 17	Minuteman 2	-	2049	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1966-S178	2439205.50	1966 Mar 21	Minuteman 1A	-	569 (63-061)	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S188	2439210.42	1966 Mar 25 2200?	Minuteman 1A	-	649 (63-130)	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S205	2439216.56	1966 Apr 1 0129:55	Minuteman 2	-	462	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1966-S207	2439220.10	1966 Apr 4 1420	Minuteman 1B	-	1258	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1966-S208	2439220.40	1966 Apr 4 2130?	Minuteman 1B	-	1347	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1966-S221	2439230.50	1966 Apr 15	Minuteman 1B	-	1312	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S232	2439237.50	1966 Apr 22	Minuteman 1B	-	1252	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S246	2439248.36	1966 May 2 2035	Minuteman 1B	-	1388	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S264	2439262.09	1966 May 16 1410	Minuteman 1A	-	710 (63-175)	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S265	2439262.27	1966 May 16 1830	Minuteman 1B	-	1191	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S266	2439262.50	1966 May 17	Minuteman 1B	-	1314	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S286	2439277.34	1966 May 31 2010	Minuteman 1B	-	1270	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S287	2439277.45	1966 May 31 2255	Minuteman 1A	-	622 (63-109)	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1966-S297	2439279.45	1966 Jun 2 2241	Minuteman 1B	-	1240	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1966-S305	2439287.24	1966 Jun 10 1739	Minuteman 1B	-	1261	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1966-S336	2439301.47	1966 Jun 24 2310	Minuteman 2	-	2083	0.000	AFBSD	MS	-	-	Test	Ulrich/UPI	VAFB	-
1966-S362	2439315.60	1966 Jul 9 0230:15	Minuteman 2	-	463	0.000	AFBSD	MS	-	-	Test	ETR/Wire	-	-
1966-S363	2439318.31	1966 Jul 11 1922	Minuteman 1B	-	1250	0.000	1STRAD	MF	U	-	OT	VAFB/Wire	-	-
1966-S366	2439318.82	1966 Jul 12 0745	Minuteman 1B	-	653	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S368	2439319.86	1966 Jul 13 0845	Minuteman 1B	-	764	0.000	1STRAD	MF	U	-	OT	Ulrich/UPI	VAFB	-
1966-S389	2439332.50	1966 Jul 26	Minuteman 2	-	2045	0.000	AFBSD	MF	U	-	Test	VAFB	-	-
1966-S390	2439332.50	1966 Jul 26	Minuteman 1B	-	1219	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S407	2439338.50	1966 Aug 1	Minuteman 2	-	2061	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S417	2439342.50	1966 Aug 5	Minuteman 1B	-	1377	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S442	2439353.50	1966 Aug 16	Minuteman 1A	-	522 (63-021)	0.000	1STRAD	MF	U	-	OT	VAFB/Wire	-	-
1966-S443	2439353.50	1966 Aug 16	Minuteman 1B	-	1342	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S450	2439360.37	1966 Aug 22 2052	Minuteman 1A	-	621 (63-103)	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S456	2439364.40	1966 Aug 26 2136	Minuteman 2	-	2056	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S465	2439367.30	1966 Aug 29 1905	Minuteman 1B	-	1197	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S487	2439384.50	1966 Sep 16	Minuteman 1B	-	1291	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1966-S495	2439388.50	1966 Sep 20	Minuteman 1A	-	571 (63-068)	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S500	2439391.10	1966 Sep 22 1430	Minuteman 1B	-	1262	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1966-S526	2439401.50	1966 Oct 3	Minuteman 1A	-	578	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S540	2439412.42	1966 Oct 13 2210	Minuteman 1B	-	1247	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S552	2439420.36	1966 Oct 21 2035	Minuteman 1B	-	914	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S581	2439431.50	1966 Nov 2	Minuteman 2	-	2068	0.000	1STRAD	MF	U	-	OT	VAFB	-	-
1966-S623	2439445.50	1966 Nov 16	Minuteman 1B	-	1207	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S649	2439452.40	1966 Nov 22 2140	Minuteman 1B	-	1183	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1966-S681	2439473.41	1966 Dec 13 2155	Minuteman 2	-	2036	0.000	AFBSD	MS	-	-	Comms	Ulrich/AP	VAFB	-
1966-S693	2439479.50	1966 Dec 20	Minuteman 1B	-	1227	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1966-S697	2439482.41	1966 Dec 22 2150	Minuteman 1B	-	923	0.000	1STRAD	MS	-	-	OT	AP	VAFB	-
1966-S698	2439482.41	1966 Dec 22 2150	Minuteman 1B	-	1128	0.000	1STRAD	MS	-	-	OT	AP	VAFB	-
1967-S53	2439501.90	1967 Jan 11 0935	Minuteman 2	-	2073 [2113?]	0.000	AFBSD	MS	-	-	Test	Ulrich/UPI	VAFB	-
1967-S62	2439507.54	1967 Jan 17 0059:59	Minuteman 2	-	464	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1967-S73	2439515.44	1967 Jan 24 2235	Minuteman 1B	-	828	0.000	1STRAD	MS	-	-	OT	Ulrich/Wire	VAFB	-
1967-S90	2439521.40	1967 Jan 30 2135	Minuteman 1B	-	1206	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1967-S112	2439524.66	1967 Feb 3 0345	Minuteman 2	-	2087	0.000	AFBSD	MS	-	-	Comms	Ulrich/AP	VAFB	-
1967-S118	2439528.50	1967 Feb 7	Minuteman 1B	-	893	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S123	2439543.44	1967 Feb 21 2240	Minuteman 1B	-	700	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S124	2439543.44	1967 Feb 21 2240	Minuteman 1B	-	1263	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S128	2439546.59	1967 Feb 25 0205:02	Minuteman 2	-	465	0.000	AFBSD	MS	-	-	Test	nsf-koenn	ETR	-
1967-S144	2439556.50	1967 Mar 7	Minuteman 1B	-	(64-002)	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S167	2439572.35	1967 Mar 22 2030	Minuteman 1B	-	1253	0.000	1STRAD	MS	-	-	OT	Ulrich/Wire	VAFB	-
1967-S196	2439588.38	1967 Apr 7 2100	Minuteman 1B	-	1426	0.000	1STRAD	MF	U	-	OT	VAFB/Wire	-	-
1967-S217	2439597.50	1967 Apr 17	Minuteman 2	-	2143	0.000	AFBSD/ALCS	MS	-	-	Comms	VAFB	-	-
1967-S228	2439601.50	1967 Apr 21	Minuteman 1B	-	1296	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S229	2439601.50	1967 Apr 21	Minuteman 2	-	2137	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S232	2439607.50	1967 Apr 27	Minuteman 1B	-	1193	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S236	2439608.90	1967 Apr 28 0930	Minuteman 1B	-	1019	0.000	AFBSD/ALCS	MS	-	-	Test	Ulrich/UPI	VAFB	-
1967-S255	2439622.10	1967 May 11 1423	Minuteman 2	-	2095	0.000	AFBSD/ALCS	MS	-	-	Test	VAFB/Wire	-	-
1967-S261	2439627.50	1967 May 17	Minuteman 1B	-	774	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S264	2439629.50	1967 May 19	Minuteman 1B	-	667	0.000	AFBSD	MS	-	-	Test	VAFB	-	-
1967-S265	2439629.50	1967 May 19	Minuteman 2	-	2122	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S268	2439632.50	1967 May 22	Minuteman 1B	-	1188	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S274	2439641.50	1967 May 31	Minuteman 1B	-	726	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S279	2439642.50	1967 Jun 1	Minuteman 1B	-	757	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S309	2439662.50	1967 Jun 21	Minuteman 1B	-	1357	0.000	1STRAD	MS	-	-	OT	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S326	2439669.90	1967 Jun 28 0937	Minuteman 1B	-	751	0.000	AFBSD	MS	-	-	Test	Ulrich/UPI	VAFB	-
1967-S334	2439676.50	1967 Jul 5	Minuteman 1B	-	1126	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S343	2439683.50	1967 Jul 12	Minuteman 1B	-	800	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S346	2439684.50	1967 Jul 13	Minuteman 1B	-	779	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S349	2439686.97	1967 Jul 15 1118	Minuteman 1B	-	755	0.000	SAMSB	MS	-	-	Test	Ulrich/UPI	VAFB	-
1967-S348	2439686.50	1967 Jul 15	Minuteman 2	-	2337 (2095?)	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1967-S350	2439691.88	1967 Jul 20 0900	Minuteman 2	-	2370	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1967-S373	2439710.50	1967 Aug 8	Minuteman 1B	-	1212	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S389	2439720.39	1967 Aug 17 2118:59	Minuteman 2	-	466	0.000	SAMSB	MS	-	-	Test	nsf-koenn	ETR	-
1967-S419	2439740.36	1967 Sep 6 2035	Minuteman 1B	-	1222	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1967-S442	2439755.60	1967 Sep 22 0228	Minuteman 1B	-	831	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S451	2439760.58	1967 Sep 27 0200	Minuteman 1B	-	1151	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S499	2439784.50	1967 Oct 21	Minuteman 2	-	2445	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S521	2439797.85	1967 Nov 3 0830	Minuteman 1B	-	820	0.000	SAMSB	MS	-	-	Test	Ulrich/Wire	VAFB	-
1967-S525	2439801.54	1967 Nov 7 0056:08	Minuteman 2	-	467	0.000	SAMSB	MS	-	-	Test	ETR/UM	-	-
1967-S531	2439809.10	1967 Nov 14 1420	Minuteman 1B	-	1215	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S532	2439809.14	1967 Nov 14 1522	Minuteman 1B	-	1028	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S540	2439811.50	1967 Nov 17	Minuteman 2	-	2386	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1967-S543	2439816.09	1967 Nov 21 1412	Minuteman 2	-	2071	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1967-S556	2439825.50	1967 Dec 1	Minuteman 1B	-	1183	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S574	2439833.38	1967 Dec 8 2103	Minuteman 1B	-	948	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1967-S587	2439842.50	1967 Dec 18	Minuteman 1B	-	1114	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S592	2439846.52	1967 Dec 22 0035	Minuteman 1B	-	1437	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S593	2439846.57	1967 Dec 22 0145	Minuteman 1B	-	1288	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1967-S595	2439847.50	1967 Dec 23	Minuteman 2	-	2457	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1967-S596	2439852.95	1967 Dec 28 1055	Minuteman 2	-	2435	0.000	SAMSB	MS	-	-	Test	Wire/Ulrich	VAFB	-
1968-S78	2439865.92	1968 Jan 10 0958	Minuteman 2	-	2437	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S83	2439871.50	1968 Jan 16	Minuteman 1B	-	(64-011)	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S100	2439880.50	1968 Jan 25	Minuteman 2	-	2448F	0.000	1STRAD/ALCS	MS	-	-	OT	VAFB	-	-
1968-S112	2439888.93	1968 Feb 2 1017	Minuteman 2	-	2464	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S113	2439889.04	1968 Feb 2 1255	Minuteman 1B	-	1274	0.000	1STRAD	MF	U	-	OT	VAFB/Wire	-	-
1968-S125	2439893.64	1968 Feb 7 0320:21	Minuteman 2	-	468	0.000	SAMSB	MS	-	-	Test	nsf-koenn	ETR	-
1968-S129	2439896.99	1968 Feb 10 1142	Minuteman 2	-	2307	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1968-S225	2439944.50	1968 Mar 29	Minuteman 2	-	2522	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S261	2439956.86	1968 Apr 10 0839	Minuteman 1B	-	1411	0.000	1STRAD	MS	-	-	OT	PMRHist68	-	-
1968-S273	2439970.63	1968 Apr 24 0305	Minuteman 1B	-	892	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S297	2439976.50	1968 Apr 30	Minuteman 2	-	2503	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S336	2439998.93	1968 May 22 1020	Minuteman 1B	-	1359	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S340	2439999.72	1968 May 23 0510	Minuteman 1B	-	1015	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S393	2440046.26	1968 Jul 8 1819	Minuteman 2	-	FTM-2589	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S396	2440049.88	1968 Jul 12 0900	Minuteman 1B	-	1084 (343?)	0.000	1STRAD	MS	-	-	OT	PMRHist68	-	-
1968-S459	2440085.35	1968 Aug 16 2030:02	Minuteman 3	-	FTM-201	0.000	SAMSB	MS	-	-	Test	ETR/Wire	-	-
1968-S485	2440101.25	1968 Sep 1 1800	Minuteman 2	-	1442	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	LONG LIFE successor	-
1968-S550	2440154.35	1968 Oct 24 2030:03	Minuteman 3	-	FTM-202	0.000	SAMSB	MF	U	-	Test	ETR	-	-
1968-S552	2440154.21	1968 Oct 24 1700?	Minuteman 2	-	FTM-2191	0.000	1STRAD	MS	-	-	OT	Jenkins-Landis	VAFB	-
1968-S557	2440159.85	1968 Oct 30 0823	Minuteman 1B	-	1136	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S579	2440174.01	1968 Nov 13 1210	Minuteman 2	-	2537	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1968-S600	2440182.27	1968 Nov 21 1828	Minuteman 2	-	2556	0.000	1STRAD	MS	-	-	OT	Jenkins-Landis	VAFB	-
1968-S632	2440197.50	1968 Dec 7	Minuteman 1B	-	1375	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S638	2440200.50	1968 Dec 10	Minuteman 1B	-	943	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1968-S655	2440211.10	1968 Dec 20 1430	Minuteman 2	-	2418	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S76	2440242.90	1969 Jan 21 0940	Minuteman 1B	-	1089	0.000	1STRAD	MS	-	-	OT	Ulrich/AP	VAFB	-
1969-S90	2440250.94	1969 Jan 29 1034	Minuteman 2	-	2504	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S91	2440251.08	1969 Jan 29 1352	Minuteman 2	-	2240	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S92	2440251.50	1969 Jan 30	Minuteman 1B	-	874	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1969-S104	2440254.85	1969 Feb 2 0825	Minuteman 2	-	FTM-2208	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S146	2440272.93	1969 Feb 20 1015	Minuteman 1B	-	1220	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S167	2440287.85	1969 Mar 7 0820	Minuteman 2	-	2252	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S182	2440292.97	1969 Mar 12 1120	Minuteman 2	-	FTM-2642	0.000	1STRAD/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1969-S214	2440303.08	1969 Mar 22 1350	Minuteman 2	-	2415	0.000	SAMSB	MS	-	-	Test	Ulrich/UPI	VAFB	-
1969-S216	2440304.50	1969 Mar 24	Minuteman 1B	-	791	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1969-S218	2440306.29	1969 Mar 25 1900	Minuteman 1B	-	1308	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S219	2440307.37	1969 Mar 26 2046:21	Minuteman 3	-	FTM-203	0.000	SAMSB	MS	-	-	Test	ETR/Wire	-	-
1969-S260	2440322.87	1969 Apr 11 0855	Minuteman 3	-	FTM-301	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S271	2440327.90	1969 Apr 16 0935	Minuteman 2	-	2339	0.000	1STRAD	MF	U	-	OT	Ulrich/LompocR	VAFB	-
1969-S279	2440330.29	1969 Apr 18 1851	Minuteman 2	-	2287	0.000	AFSC/ALCS	MS	-	-	Test	Ulrich/LompocR	VAFB	-
1969-S290	2440334.34	1969 Apr 22 2015:01	Minuteman 3	-	FTM-204	0.000	SAMSB	MS	-	-	Test	nsf-koenn	ETR	-
1969-S292	2440335.48	1969 Apr 23 2330	Minuteman 1B	-	1090	0.000	1STRAD	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1969-S297	2440337.21	1969 Apr 25 1700	Minuteman 2	-	2096	0.000	1STRAD	MS	-	321SMW/	OT	Ulrich/LompocR	VAFB	Or Apr26?
1969-S315	2440343.86	1969 May 2 0842	Minuteman 2	-	2505	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1969-S334	2440361.50	1969 May 20	Minuteman 2	-	(64-15525)	0.000	1STRAD	MS	-	321SMW/	OT	VAFB	-	-
1969-S343	2440369.37	1969 May 27 2055:13	Minuteman 3	-	FTM-205	0.000	SAMSB	MS	-	-	Test	ETR/Wire	-	-
1969-S347	2440370.33	1969 May 28 2000	Minuteman 2	-	2131	0.000	1STRAD	MS	-	321SMW/	OT	Ulrich/LompocR	VAFB	-
1969-S349	2440370.98	1969 May 29 1135	Minuteman 3	-	FTM-302	0.000	SAMSB	MS	-	-	Test	Ulrich/LompocR	VAFB	-
1969-S360	2440384.05	1969 Jun 11 1315	Minuteman 2	-	2059	0.000	1STRAD	MS	-	321SMW/	OT	VAFB/Wire(Jun10?)	-	-
1969-S367	2440390.94	1969 Jun 18 1030	Minuteman 1B	-	1285	0.000	1STRAD/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1969-S371	2440392.50	1969 Jun 20	Minuteman 2	-	2320	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1969-S380	2440398.35	1969 Jun 25 2030:00	Minuteman 3	-	FTM-206	0.000	SAMSB	MF	U	-	Test	ETR/Wire	-	-
1969-S385	2440403.69	1969 Jul 1 0436	Minuteman 1B	-	1282	0.000	1STRAD	MS	-	-	OT	VAFB/Wire(PDT)	-	-
1969-S390	2440404.88	1969 Jul 2 0900	Minuteman 1B	-	1279	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S394	2440411.09	1969 Jul 8 1405	Minuteman 2	-	2062	0.000	1STRAD	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1969-S408	2440418.08	1969 Jul 15 1400	Minuteman 2	-	2012	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1969-S409	2440418.13	1969 Jul 15 1503	Minuteman 2	-	(64-15533)	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1969-S413	2440426.33	1969 Jul 23 1950	Minuteman 1B	-	1140	0.000	1STRAD/ALCS	MS	-	90MW/	OT	Ulrich/AP	VAFB	-
1969-S417	2440427.87	1969 Jul 25 0855	Minuteman 2	-	2357	0.000	SAMSB	MS	-	-	Test	Ulrich/LompocR	VAFB	-
1969-S434	2440434.38	1969 Jul 31 2109:18	Minuteman 3	-	FTM-207	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S458	2440455.68	1969 Aug 22 0420	Minuteman 2	-	2108	0.000	1STRAD	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1969-S468	2440460.61	1969 Aug 27 0235	Minuteman 2	-	2065	0.000	1STRAD/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1969-S469	2440461.50	1969 Aug 28	Minuteman 1B	-	1358	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1969-S479	2440467.60	1969 Sep 3 0220	Minuteman 2	-	2145	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S488	2440475.55	1969 Sep 11 0105	Minuteman 1B	-	1137	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S499	2440477.50	1969 Sep 13	Minuteman 3	-	FTM-303	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1969-S509	2440484.85	1969 Sep 20 0830	Minuteman 1B	-	1276	0.000	1STRAD	MS	-	-	OT	AP/Ulrich	VAFB	-
1969-S513	2440487.50	1969 Sep 23	Minuteman 1B	-	STF-1	0.000	SAMSB	MF	U	-	Target	VAFB	-	-
1969-S515	2440488.34	1969 Sep 23 2010:26	Minuteman 3	-	FTM-208	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-
1969-S516	2440488.50	1969 Sep 24	Minuteman 2	-	2129	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1969-S527	2440495.50	1969 Oct 1	Minuteman 2	-	2510	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1969-S530	2440497.54	1969 Oct 3 0100	Minuteman 1B	-	1173	0.000	1STRAD	MS	-	-	OT	VAFB/Wire(PDT)	-	-
1969-S540	2440508.42	1969 Oct 13 2205	Minuteman 2	-	2054	0.000	1STRAD/ALCS	MS	-	-	OT	Wire/Ulrich	VAFB	-
1969-S545	2440509.97	1969 Oct 15 1116	Minuteman 3	-	FTM-305	0.000	SAMSB	MS	-	-	Test	VAFB/Wire(PDT)	-	-
1969-S565	2440515.50	1969 Oct 21	Minuteman 1B	-	1134	0.000	1STRAD/ALCS	MS	-	-	OT	VAFB	-	-
1969-S587	2440525.50	1969 Oct 31	Minuteman 3	-	FTM-304	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1969-S621	2440532.33	1969 Nov 6 2000:02	Minuteman 3	-	FTM-209	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-
1969-S620	2440532.79	1969 Nov 7 0700	Minuteman 1B	-	1225	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-S631	2440544.50	1969 Nov 19	Minuteman 2	-	2508	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1969-S634	2440551.73	1969 Nov 26 0527	Minuteman 1B	-	2063	0.000	1STRAD	MS	-	-	OT	VAFB/Wire	-	-
1969-A202	2440560.33	1969 Dec 4 2000:02	Minuteman 3	-	FTM-210	0.000	SAMSB	MF	U	-	Test	CCMOPS	-	-
1969-S647	2440561.44	1969 Dec 5 2240	Minuteman 1B	-	1068	0.000	1STRAD/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1969-S677	2440571.50	1969 Dec 16	Minuteman 1B	-	STF-2	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1970-S145	2440643.56	1970 Feb 26 0125	Minuteman 1B	-	855	0.000	1STRAD	MS	-	-	OT	Ulrich/UPI	VAFB	-
1970-S188	2440650.63	1970 Mar 5 0305	Minuteman 1B	-	782	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1970-S239	2440655.50	1970 Mar 10	Minuteman 1B	-	1180	0.000	1STRAD	MS	-	-	OT	VAFB	-	-
1970-S241	2440657.46	1970 Mar 11 2300	Minuteman 2	-	2424	0.000	1STRAD	MS	-	-	OT	UPI/Ulrich	VAFB	-
1970-A30	2440659.35	1970 Mar 13 2030:02	Minuteman 3	-	FTM-212	0.000	SAMSB	MF	U	-	Test	CCMOPS	-	-
1970-A31	2440660.25	1970 Mar 14 1800:15	Minuteman 2	-	Mobile Feasibility	0.000	SAMSB	MS	-	-	Test	ETR-IDX-FY70	-	-
1970-S259	2440668.50	1970 Mar 23	Minuteman 1B	-	1094	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1970-S264	2440671.88	1970 Mar 26 0900	Minuteman 2	-	2656	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1970-S275	2440676.50	1970 Mar 31	Minuteman 2	-	2594	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S277	2440678.50	1970 Apr 2	Minuteman 3	-	FTM-309	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1970-S282	2440680.35	1970 Apr 3 2030:07	Minuteman 3	-	FTM-213	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-
1970-S312	2440698.54	1970 Apr 22 0101	Minuteman 2	-	2474	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1970-S323	2440699.07	1970 Apr 22 1345	Minuteman 3	-	FTM-308	0.000	SAMSB	MS	-	-	Test	Ulrich/LompocR	VAFB	-
1970-S332	2440701.50	1970 Apr 25	Minuteman 2	-	2588	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S337	2440706.17	1970 Apr 29 1602:06	Minuteman 3	-	FTM-214	0.000	SAMSB	MS	-	-	Test	ETR-IDX-FY70	-	-
1970-S342	2440711.66	1970 May 5 0350	Minuteman 1B	-	1330	0.000	SAC	MS	-	-	OT	VAFB/Wire(PDT)	-	-
1970-S347	2440714.83	1970 May 8 0749	Minuteman 3	-	FTM-310	0.000	SAMSB	MS	-	-	Test	VAFB/Wire(PDT)	-	-
1970-S360	2440728.26	1970 May 21 1816	Minuteman 2	-	2486	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/AP	VAFB	-
1970-S373	2440733.86	1970 May 27 0840	Minuteman 1B	-	1404	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1970-S374	2440734.17	1970 May 27 1559:42	Minuteman 3	-	FTM-215	0.000	SAMSB	MS	-	-	Test	ETR-IDX-FY70	-	-
1970-S391	2440746.46	1970 Jun 8 2300	Minuteman 1B	-	1242	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1970-S395	2440754.83	1970 Jun 17 0800	Minuteman 3	-	FTM-312	0.000	SAMSB	MS	-	-	Test	VAFB/Wire(PDT)	-	-
1970-S398	2440757.05	1970 Jun 19 1315	Minuteman 2	-	2478	0.000	SAC	MS	-	-	OT	Ulrich	VAFB	-
1970-S399	2440757.50	1970 Jun 20	Minuteman 2	-	2338	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S402	2440761.69	1970 Jun 24 0433	Minuteman 3	-	FTM-313	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1970-S404	2440763.47	1970 Jun 25 2310	Minuteman 1B	-	1413	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1970-S406	2440763.50	1970 Jun 26	Minuteman 2	-	2559	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S423	2440777.50	1970 Jul 10	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1970-S428	2440781.50	1970 Jul 14	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S436	2440785.50	1970 Jul 18	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S438	2440790.50	1970 Jul 23	Minuteman 1B	-	970	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1970-S452	2440796.47	1970 Jul 28 2317	Minuteman 3	-	FTM-5008	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1970-S460	2440801.50	1970 Aug 3	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1970-S463	2440803.29	1970 Aug 4 1900	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	LompocRecord700805	VAFB	-
1970-S480	2440810.46	1970 Aug 11 2300	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1970-S485	2440812.86	1970 Aug 14 0835	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S490	2440819.77	1970 Aug 21 0625	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1970-S492	2440824.84	1970 Aug 26 0805	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1970-S493	2440826.75	1970 Aug 28 0600	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB/Wire	-
1970-S494	2440827.64	1970 Aug 29 0315	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	Ulrich/Wire	-	-
1970-S502	2440832.59	1970 Sep 3 0205	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1970-S518	2440844.48	1970 Sep 14 2330	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S520	2440846.31	1970 Sep 16 1930:00	Minuteman 3	-	STM-1	0.000	SAMSB	MS	-	-	Test	nsf-koenn	CCMOPS	-
1970-S521	2440847.25	1970 Sep 17 1800	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1970-S533	2440854.50	1970 Sep 25	Minuteman 1B	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1970-S534	2440855.81	1970 Sep 26 0720	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S547	2440862.50	1970 Oct 3	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1970-S548	2440862.50	1970 Oct 3	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1970-S551	2440865.46	1970 Oct 5 2300	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S556	2440866.97	1970 Oct 7 1115	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	UPI/Ulrich	VAFB	-
1970-S576	2440882.44	1970 Oct 22 2235	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S577	2440882.44	1970 Oct 22 2235	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S582	2440885.50	1970 Oct 26	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1970-S590	2440893.46	1970 Nov 2 2305	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S591	2440894.88	1970 Nov 4 0905	Minuteman 3	-	STM-1W	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1970-S592	2440896.58	1970 Nov 6 0200	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1970-S598	2440898.83	1970 Nov 8 0750?	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1970-S604	2440904.50	1970 Nov 14	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire(night)	-	-
1970-S633	2440923.25	1970 Dec 2 1802	Minuteman 3	-	STM-3	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-
1970-S635	2440927.91	1970 Dec 7 0950	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/Wire	VAFB	-
1970-S644	2440935.15	1970 Dec 14 1530:38	Minuteman 3	-	STM-2	0.000	SAMSB	MS	-	-	Test	CCMOPS	-	-
1970-S652	2440938.54	1970 Dec 18 0100	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1970-S661	2440944.58	1970 Dec 24 0155	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB/Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S56	2440962.50	1971 Jan 11	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1971-S95	2440978.91	1971 Jan 27 0945	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/UPI	VAFB	-
1971-S97	2440980.59	1971 Jan 29 0210	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S112	2440985.50	1971 Feb 3	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S113	2440987.72	1971 Feb 5 0520	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S119	2440991.46	1971 Feb 8 2300	Minuteman 1B	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/Wire	VAFB	-
1971-S123	2440999.81	1971 Feb 17 0725	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S128	2441005.50	1971 Feb 23	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1971-S130	2441007.58	1971 Feb 25 0200	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1971-S134	2441009.50	1971 Feb 27	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S140	2441012.50	1971 Mar 2	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S172	2441027.50	1971 Mar 17	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1971-S197	2441034.81	1971 Mar 24 0725	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S221	2441042.86	1971 Apr 1 0840	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S231	2441049.94	1971 Apr 8 1040	Minuteman 3	-	STM-2W	0.000	SAMSB	MS	-	-	Test	Ulrich/LompocR	VAFB	-
1971-S245	2441064.89	1971 Apr 23 0925	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S251	2441067.50	1971 Apr 26	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S285	2441090.76	1971 May 19 0620	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S297	2441092.50	1971 May 21	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S300	2441095.50	1971 May 24	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S302	2441098.79	1971 May 27 0656	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S307	2441099.76	1971 May 28 0620	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1971-S321	2441106.50	1971 Jun 4	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S327	2441114.12	1971 Jun 11 1455	Minuteman 3	-	STM-6W	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1971-S332	2441120.50	1971 Jun 18	Minuteman 1B	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1971-S336	2441125.50	1971 Jun 23	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S343	2441129.64	1971 Jun 27 0318	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB/Wire	-	-
1971-S359	2441140.50	1971 Jul 8	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1971-S361	2441144.96	1971 Jul 12 1100?	Minuteman 1B	-	-	0.000	SAC	MF	U	-	OT	VAFB/Wire	-	240m RSO
1971-S381	2441166.50	1971 Aug 3	Minuteman 1B	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1971-S382	2441167.92	1971 Aug 4 1000	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/Wire	VAFB	-
1971-S384	2441170.03	1971 Aug 6 1250	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S390	2441176.50	1971 Aug 13	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S427	2441196.50	1971 Sep 2	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S431	2441197.50	1971 Sep 3	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S436	2441202.50	1971 Sep 8	Minuteman 1B	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1971-S439	2441204.96	1971 Sep 10 1100	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S492	2441230.50	1971 Oct 6	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S505	2441232.58	1971 Oct 8 0156	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB/Wire	-	-
1971-S524	2441239.88	1971 Oct 15 0905	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1971-S527	2441242.50	1971 Oct 18	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1971-S533	2441245.18	1971 Oct 20 1616	Minuteman 3	-	STM-3W	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1971-S536	2441246.57	1971 Oct 22 0140	Minuteman 2	-	-	0.000	SAC	MS	-	-	Comms	VAFB/Wire	-	-
1971-S561	2441273.79	1971 Nov 18 0700	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S567	2441278.79	1971 Nov 23 0655	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1971-S569	2441279.76	1971 Nov 24 0615	Minuteman 3	-	(Chaser targ)	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S578	2441288.66	1971 Dec 3 0345	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S598	2441295.54	1971 Dec 10 0100	Minuteman 1B	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1971-S607	2441300.50	1971 Dec 15	Minuteman 3	-	STM-4W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1971-S613	2441302.91	1971 Dec 17 0945	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1972-S51	2441342.98	1972 Jan 26 1125	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPD	VAFB	-
1972-S64	2441351.83	1972 Feb 4 0800?	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	LompocRecord700805	VAFB	-
1972-S71	2441356.50	1972 Feb 9	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1972-S114	2441392.50	1972 Mar 16	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1972-S130	2441398.62	1972 Mar 22 0300	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	Comms	VAFB/WirePST	-	-
1972-S158	2441420.50	1972 Apr 13	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1972-S189	2441442.50	1972 May 5	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1972-S192	2441449.50	1972 May 12	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1972-S212	2441469.10	1972 May 31 1420	Minuteman 3	-	PVM-1/FTM-5255	0.000	SAMSB	MS	-	-	Test	VAFB/WirePDT	-	-
1972-S232	2441474.50	1972 Jun 6	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1972-S237	2441480.36	1972 Jun 11 2035	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/WirePDT	-	-
1972-S238	2441482.24	1972 Jun 13 1745	Minuteman 2	-	-	0.000	SAMSB	MS	-	-	Test	Wire/Ulrich	VAFB	-
1972-S243	2441486.50	1972 Jun 18 0000	Minuteman 3	-	STM-5W	0.000	SAMSB	MS	-	-	Test	VAFB/WirePDT	-	-
1972-S244	2441489.20	1972 Jun 20 1645?	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1972-S270	2441513.50	1972 Jul 15	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1972-S272	2441524.72	1972 Jul 26 0510	Minuteman 2	-	Destruct test	0.000	SAMSB	MS	-	-	Test	VAFB/WirePDT	-	-
1972-S276	2441531.50	1972 Aug 2	Minuteman 3	-	STM-7W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1972-S310	2441579.50	1972 Sep 19	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1972-S314	2441586.48	1972 Sep 25 2330	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/WirePDT	-	-
1972-S329	2441593.85	1972 Oct 3 0830	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Wire/Ulrich	VAFB	-
1972-S350	2441606.50	1972 Oct 16	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1972-S353	2441610.88	1972 Oct 20 0905	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1972-S369	2441618.64	1972 Oct 28 0323	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test?	VAFB/WirePST	-	-
1972-S403	2441646.58	1972 Nov 25 0200	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1972-S413	2441656.61	1972 Dec 5 0235	Minuteman 3	-	First phase 2 OT	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1972-S420	2441659.50	1972 Dec 8	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1972-S431	2441663.50	1972 Dec 12	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1972-S432	2441663.50	1972 Dec 12	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1972-S443	2441671.54	1972 Dec 20 0100	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test?	Ulrich/Wire	VAFB	-
1972-S444	2441673.70	1972 Dec 22 0455	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1973-S39	2441713.58	1973 Jan 31 0150?	Minuteman 3	-	PVM-2	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1973-S100	2441750.94	1973 Mar 9 1035	Minuteman 1B	-	FTM-1221	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/AP	VAFB	-
1973-S151	2441790.68	1973 Apr 18 0425	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1973-S155	2441797.86	1973 Apr 25 0836	Minuteman 1B	-	FTM-1373	0.000	SAMSB	MS	-	-	Reentry Test?	Ulrich/LompocR	VAFB	-
1973-S157	2441799.64	1973 Apr 27 0323	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1973-S164	2441806.46	1973 May 3 2300	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire(PST)	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-S165	2441806.50	1973 May 4	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1973-S178	2441834.63	1973 Jun 1 0310	Minuteman 3	-	FTM-5376	0.000	SAMSB	MS	-	-	Test	UPI/Ulrich	VAFB	-
1973-S195	2441841.63	1973 Jun 8 0308	Minuteman 1B	-	-	0.000	SAC	MS	-	-	Target	UPI/Ulrich	VAFB	-
1973-S211	2441860.85	1973 Jun 27 0830	Minuteman 2	-	FTM-2644	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1973-S230	2441870.38	1973 Jul 6 2100	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/SMT	VAFB	-
1973-S243	2441884.54	1973 Jul 21 0100	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	Ulrich/AP	VAFB/Wire	-
1973-S249	2441890.39	1973 Jul 26 2125	Minuteman 2	-	-	0.000	SAC	MS	-	351SMW/	Comms	Ulrich/LompocR	VAFB	-
1973-S264	2441896.50	1973 Aug 2	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1973-S271	2441903.50	1973 Aug 9	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1973-S283	2441918.57	1973 Aug 24 0135	Minuteman 3	-	PVM-3	0.000	SAMSB	MS	-	-	Test	UPI/Ulrich	VAFB	-
1973-S296	2441930.50	1973 Sep 5	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1973-S298	2441932.50	1973 Sep 7	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1973-S304	2441940.73	1973 Sep 15 0525	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1973-S314	2441951.65	1973 Sep 26 0335	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1973-S337	2441958.77	1973 Oct 3 0630	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire(PST)	-	-
1973-S379	2441989.52	1973 Nov 3 0030	Minuteman 1B	-	-	0.000	SAC	MS	-	-	Target	VAFB/Wire	-	-
1973-S400	2442008.88	1973 Nov 22 0900	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1973-S411	2442016.54	1973 Nov 30 0100	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	Ulrich/UPI	VAFB	-
1973-S435	2442027.50	1973 Dec 11	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1973-S439	2442030.50	1973 Dec 14	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1973-S446	2442038.84	1973 Dec 22 0805	Minuteman 3	-	STM-8W	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1974-S70	2442070.60	1974 Jan 23 0230	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB/Wire	-	-
1974-S78	2442074.08	1974 Jan 26 1400?	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire(sunrise)	-	-
1974-S130	2442119.71	1974 Mar 13 0505	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	Comms	Ulrich/Wire	VAFB	-
1974-S151	2442134.67	1974 Mar 28 0400	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1974-S158	2442139.68	1974 Apr 2 0418	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich	VAFB/Wire	-
1974-S165	2442142.56	1974 Apr 5 0125	Minuteman 3	-	PVM-5	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1974-S173	2442153.50	1974 Apr 16	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1974-S181	2442164.84	1974 Apr 27 0810?	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB/Wire	-	-
1974-S187	2442170.42	1974 May 2 2200	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1974-S267	2442237.50	1974 Jul 9	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1974-S268	2442240.15	1974 Jul 11 1540	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1974-S270	2442247.54	1974 Jul 19 0058	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	Ulrich/UPI	VAFB	-
1974-S277	2442260.50	1974 Aug 1	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Target	VAFB	-	-
1974-S280	2442277.18	1974 Aug 17 1620?	Minuteman 3	-	SAC OT-45	0.000	SAC	MS	-	-	OT	VAFB	-	-
1974-S329	2442319.15	1974 Sep 28 1534	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1974-S336	2442325.76	1974 Oct 5 0610?	Minuteman 3	-	PVM-8	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1974-S339	2442328.65	1974 Oct 8 0335	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1974-S345	2442332.75	1974 Oct 12 0554	Minuteman 3	-	PVM-6	0.000	SAMSB	MS	-	-	Test	VAFB/Wire(PST)	-	-
1974-S346	2442332.85	1974 Oct 12 0830	Minuteman 3	-	PVM-7	0.000	SAMSB	MS	-	-	Test	VAFB/Wire(PST)	-	-
1974-S360	2442343.12	1974 Oct 22 1455	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	Comms	VAFB/Wire(orOct23?)	-	-
1974-A47	2442344.50	1974 Oct 24	Minuteman 1	-	-	0.000	SAMSB	MS	-	-	Test	Wire	-	-
1974-S367	2442346.12	1974 Oct 25 1455	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich	VAFB	-
1974-S390	2442377.50	1974 Nov 26	Minuteman 3	-	PVM-9	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1974-S400	2442385.81	1974 Dec 4 0720	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1974-S416	2442399.61	1974 Dec 18 0235	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1975-S42	2442431.97	1975 Jan 19 1112	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB/Wire	-	-
1975-S51	2442442.14	1975 Jan 29 1520	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1975-S59	2442449.11	1975 Feb 5 1440	Minuteman 3	-	-	0.000	SAC	MF	U	-	OT	VAFB/Wire	-	-
1975-S90	2442477.86	1975 Mar 6 0836	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/LompocR	VAFB	-
1975-S145	2442539.68	1975 May 7 0420	Minuteman 3	-	PVM-10	0.000	SAMSB	MS	-	-	Test	VAFB/Wire	-	-
1975-S148	2442541.50	1975 May 9	Minuteman 1B	-	FTM 1328	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1975-S157	2442548.50	1975 May 16	Minuteman 3	-	STM-9W/FTM 5647	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1975-S158	2442555.50	1975 May 23	Minuteman 1B	-	FTM 1406	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1975-S197	2442575.10	1975 Jun 11 1430	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1975-S206	2442583.50	1975 Jun 20	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1975-S222	2442595.62	1975 Jul 2 0300?	Minuteman 3	-	PVM-11	0.000	SAMSB	MS	-	-	Test	Ulrich/Wire	VAFB	-
1975-S232	2442619.50	1975 Jul 26	Minuteman 3	-	STM-10W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1975-S243	2442639.68	1975 Aug 15 0425	Minuteman 2	-	FTM 2396	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1975-S249	2442646.50	1975 Aug 22	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1975-S259	2442654.10	1975 Aug 29 1430	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1975-S267	2442660.68	1975 Sep 5 0425	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	Comms	VAFB/Wire	-	-
1975-S272	2442665.50	1975 Sep 10	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1975-S274	2442671.50	1975 Sep 16	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1975-S279	2442679.57	1975 Sep 24 0144	Minuteman 2	-	OSL	0.000	SAC	MS	-	44SMW/	Test	Ulrich/LompocR	VAFB	-
1975-S286	2442685.92	1975 Sep 30 1002	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB/Wire	-	-
1975-S318	2442729.50	1975 Nov 13	Minuteman 1B	-	FTM 1349	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1975-S320	2442731.22	1975 Nov 14 1710	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1975-S353	2442763.50	1975 Dec 17	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1976-S52	2442785.50	1976 Jan 8	Minuteman 3	-	PVM-12	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1976-S73	2442800.50	1976 Jan 23	Minuteman 1B	-	FTM 1313	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1976-S83	2442807.70	1976 Jan 30 0450	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1976-S96	2442814.50	1976 Feb 6	Minuteman 3	-	-	0.000	SAC	MF	U	-	OT	VAFB/Wire	-	-
1976-S105	2442828.64	1976 Feb 20 0320	Minuteman 2	-	-	0.000	SAC	MS	-	351SMW/	OT	Ulrich/UPI	VAFB	-
1976-S109	2442833.72	1976 Feb 25 0515	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1976-S112	2442836.58	1976 Feb 28 0200	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/UPI	VAFB	-
1976-S123	2442841.50	1976 Mar 4	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1976-S135	2442851.50	1976 Mar 14	Minuteman 3	-	PVM-13	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1976-S198	2442938.80	1976 Jun 9 0719	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1976-S205	2442950.79	1976 Jun 21 0701	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1976-S206	2442952.75	1976 Jun 23 0600?	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1976-S221	2442959.89	1976 Jun 30 0919	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1976-S226	2442974.50	1976 Jul 15	Minuteman 3	-	STM-11W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1976-S253	2443009.50	1976 Aug 19	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1976-S270	2443016.50	1976 Aug 26	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1976-S307	2443078.62	1976 Oct 27 0300	Minuteman 2	-	-	0.000	SAC	MS	-	-	Comms	Ulrich/Wire	VAFB	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-S319	2443087.85	1976 Nov 5 0820	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	UPI/Ulrich	VAFB	-
1976-S320	2443090.95	1976 Nov 8 1054	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	UPI/Ulrich	VAFB	-
1976-S322	2443094.50	1976 Nov 12	Minuteman 3	-	STM-12W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1976-S340	2443113.77	1976 Dec 1 0630	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1977-S45	2443164.84	1977 Jan 21 0804	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1977-S55	2443174.71	1977 Jan 31 0505:00	Minuteman 3	-	STM-13W/5729	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1977-S56	2443175.50	1977 Feb 1	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1977-S80	2443190.85	1977 Feb 16 0826	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1977-S96	2443204.85	1977 Mar 2 0817	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Wire/Ulrich	VAFB	-
1977-S166	2443281.50	1977 May 18	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1977-S173	2443291.84	1977 May 28 0810	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1977-S191	2443296.80	1977 Jun 2 0708	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1977-S198	2443311.58	1977 Jun 17 0200:00	Minuteman 3	-	STM-14W/5747	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1977-S208	2443323.77	1977 Jun 29 0622	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1977-S224	2443358.83	1977 Aug 3 0800	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1977-S227	2443365.80	1977 Aug 10 0710	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	Ulrich/UPI	VAFB	-
1977-S234	2443375.58	1977 Aug 20 0200	Minuteman 3	-	PVM-14	0.000	SAC	MS	-	-	Test	Ulrich/Wire	VAFB	-
1977-S239	2443389.50	1977 Sep 3	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1977-S248	2443400.80	1977 Sep 14 0710	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1977-S277	2443450.50	1977 Nov 3	Minuteman 3	-	PVM-15	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1977-S280	2443460.50	1977 Nov 13	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1977-S288	2443478.62	1977 Dec 1 0250	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1977-S296	2443484.78	1977 Dec 7 0650	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/LompocR	VAFB	-
1978-S42	2443514.50	1978 Jan 6	Minuteman 3	-	STM-15W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1978-S65	2443547.50	1978 Feb 8	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1978-S71	2443554.50	1978 Feb 15	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1978-S87	2443570.70	1978 Mar 3 0441	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1978-S100	2443603.97	1978 Apr 5 1115	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/SMT	VAFB	-
1978-S146	2443662.50	1978 Jun 3	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	UPI	-	-
1978-S152	2443667.50	1978 Jun 8	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1978-S158	2443675.50	1978 Jun 16	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1978-S162	2443682.52	1978 Jun 23 0030	Minuteman 3	-	STM-16W	0.000	SAMSB	MS	-	-	Test	Ulrich/SMT	VAFB	-
1978-S167	2443686.50	1978 Jun 27	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1978-S174	2443693.50	1978 Jul 4	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1978-S184	2443714.50	1978 Jul 25	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1978-S205	2443757.50	1978 Sep 6	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1978-S231	2443828.50	1978 Nov 16	Minuteman 2	-	-	0.000	SAC/ALCS	MF	U	-	OT	VAFB	FirstDayCover	-
1978-S237	2443840.60	1978 Nov 28 0230	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	Ulrich/Wire	VAFB	-
1978-S248	2443847.50	1978 Dec 5	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1978-S251	2443850.50	1978 Dec 8	Minuteman 3	-	STM-17W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1979-S38	2443892.50	1979 Jan 19	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1979-S43	2443897.50	1979 Jan 24	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1979-S53	2443903.50	1979 Jan 30	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1979-S57	2443910.50	1979 Feb 6	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1979-S60	2443919.50	1979 Feb 15	Minuteman 3	-	PVM-16	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1979-S102	2443955.50	1979 Mar 23	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1979-S106	2443960.50	1979 Mar 28	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1979-S128	2443983.54	1979 Apr 20 0100	Minuteman 3	-	PVM-17	0.000	SAMSB	MS	-	-	Test	Ulrich/Wire	VAFB	-
1979-S157	2444060.50	1979 Jul 6	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1979-S159	2444065.24	1979 Jul 10 1739:00	Minuteman 3	-	Global Shield 79	0.000	SAC	MS	-	-	OT	UPI	-	-
1979-S160	2444065.24	1979 Jul 10 1739:12	Minuteman 3	-	Global Shield 79	0.000	SAC	MS	-	-	OT	UPI	-	-
1979-S163	2444070.50	1979 Jul 16	Minuteman 2	-	Global Shield 79	0.000	SAC/ALCS	MS	-	-	Comms	VAFB	-	-
1979-S173	2444080.50	1979 Jul 26	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1979-S179	2444088.50	1979 Aug 3	Minuteman 1B	-	-	0.000	SAMSB	MF	U	-	Reentry Test	VAFB	-	PL deploy f
1979-S196	2444115.50	1979 Aug 30	Minuteman 3	-	STM-18W	0.000	SAMSB	MS	-	-	Test	VAFB	-	-
1979-S206	2444138.50	1979 Sep 22	Minuteman 1B	-	-	0.000	SAMSB	MS	-	-	Reentry Test	VAFB	-	-
1979-S209	2444141.50	1979 Sep 25	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1979-S214	2444144.50	1979 Sep 28	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1979-S248	2444220.50	1979 Dec 13	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1979-S254	2444227.50	1979 Dec 20	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1980-S32	2444269.50	1980 Jan 31	Minuteman 3	-	PVM-18	0.000	AFBMO	MS	-	-	Test	VAFB	-	-
1980-S38	2444274.50	1980 Feb 5	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1980-S54	2444290.50	1980 Feb 21	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1980-S56	2444293.50	1980 Feb 24	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/Wire	VAFB	-
1980-S58	2444296.50	1980 Feb 27	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1980-S65	2444313.50	1980 Mar 15	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1980-S72	2444325.50	1980 Mar 27	Minuteman 3	-	PVM-19	0.000	AFBMO	MS	-	-	Test	VAFB	-	-
1980-S85	2444339.50	1980 Apr 10	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1980-S125	2444413.10	1980 Jun 22 1430	Minuteman 3	-	Global Shield 80	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1980-S153	2444471.50	1980 Aug 20	Minuteman 3	-	Long range OT	0.000	SAC	MS	-	-	OT	VAFB	-	-
1980-S170	2444498.51	1980 Sep 16 0015	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	Ulrich/LATimes	VAFB	-
1980-S171	2444499.50	1980 Sep 17	Minuteman 3	-	Long range OT	0.000	SAC	MS	-	-	OT, Long Range test	VAFB	-	-
1980-S176	2444507.08	1980 Sep 24 1400	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/Wire	-	-
1980-S181	2444520.50	1980 Oct 8	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1980-S236	2444589.50	1980 Dec 16	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1981-S65	2444645.10	1981 Feb 9 1431	Minuteman 3	-	Global Shield 81	0.000	SAC	MS	-	-	OT	UPI/Ulrich	VAFB	-
1981-S66	2444645.19	1981 Feb 9 1638	Minuteman 3	-	Global Shield 81	0.000	SAC/ALCS	MS	-	-	OT	UPI/Ulrich	VAFB	-
1981-S72	2444653.50	1981 Feb 18	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1981-S73	2444657.08	1981 Feb 21 1400	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1981-S84	2444678.50	1981 Mar 15	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1981-S90	2444696.04	1981 Apr 1 1300	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1981-S96	2444698.50	1981 Apr 4	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1981-S116	2444768.64	1981 Jun 13 0325	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/Wire	VAFB	-
1981-S122	2444781.50	1981 Jun 26	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1981-S156	2444859.50	1981 Sep 12	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1981-S160	2444881.50	1981 Oct 4	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-S172	2444932.50	1981 Nov 24	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1981-S180	2444947.50	1981 Dec 9	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1982-S48	2444999.07	1982 Jan 29 1343	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/SMT	VAFB	-
1982-S86	2445046.50	1982 Mar 18	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1982-S104	2445060.07	1982 Mar 31 1335	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/SMT	VAFB	-
1982-S129	2445143.10	1982 Jun 22 1427	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1982-S139	2445169.50	1982 Jul 19	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1982-S148	2445186.59	1982 Aug 5 0205	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/Wire	VAFB	-
1982-S170	2445236.50	1982 Sep 24	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1982-S173	2445250.50	1982 Oct 8	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1982-S175	2445257.60	1982 Oct 15 0225	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/Wire	VAFB	-
1982-S196	2445306.07	1982 Dec 2 1345	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1983-S41	2445342.50	1983 Jan 8 0000	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	Ulrich/SMT	VAFB	-
1983-S52	2445372.86	1983 Feb 7 0844	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	Ulrich/SMT	VAFB	-
1983-S53	2445372.88	1983 Feb 7 0910?	HOE	-	HOE 1	0.000	AFBMO	MS	-	-	ABM Test	Ulrich/SMT	Wire	- -
1983-S61	2445390.16	1983 Feb 24 1557	Minuteman 3	-	-	0.000	SAC	MF	U	-	OT	AP/Ulrich	VAFB	-
1983-S72	2445404.50	1983 Mar 11	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1983-S77	2445409.50	1983 Mar 16	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1983-S95	2445459.50	1983 May 5	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1983-S104	2445482.50	1983 May 28	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Target	VAFB	-	-
1983-S105	2445482.50	1983 May 28	HOE	-	HOE 2	0.000	AFBMO	MS	-	-	ABM Test	VAFB	-	-
1983-S121	2445510.96	1983 Jun 25 1100	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/UPI	VAFB	-
1983-S120	2445511.08	1983 Jun 25 1400	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich/UPI	VAFB	-
1983-S167	2445598.50	1983 Sep 21	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1983-S168	2445599.08	1983 Sep 21 1355	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1983-S175	2445606.58	1983 Sep 29 0200	Minuteman 2	-	-	0.000	SAC	MS	-	-	OT	Ulrich/Wire	VAFB	-
1983-S205	2445660.50	1983 Nov 22	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1983-S211	2445683.50	1983 Dec 15	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Target	VAFB	-	-
1983-S212	2445683.50	1983 Dec 15	HOE	-	HOE 3	0.000	AFBMO	MS	-	-	ABM Test	VAFB	-	-
1984-S45	2445724.97	1984 Jan 25 1115	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1984-S46	2445725.04	1984 Jan 25 1300	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Ulrich/AP	VAFB	-
1984-S67	2445759.50	1984 Feb 29	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT Last M2 SOT	VAFB	-	-
1984-S80	2445798.50	1984 Apr 8	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1984-S81	2445798.50	1984 Apr 8	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1984-S92	2445861.50	1984 Jun 10	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Target	VAFB	-	-
1984-S93	2445861.50	1984 Jun 10	HOE	-	HOE 4	0.000	AFBMO	MS	-	-	ABM Test	VAFB	-	-
1984-S114	2445956.96	1984 Sep 13 1100	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Wire/Ulrich	VAFB	-
1984-S116	2445962.50	1984 Sep 19	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1984-S121	2445977.99	1984 Oct 4 1145	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Wire/Ulrich	VAFB	-
1984-S124	2445991.50	1984 Oct 18	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1985-S34	2446103.05	1985 Feb 6 1318	Minuteman 3	-	-	0.000	SAC	MF	U	-	OT	AP/Ulrich	-	-
1985-S44	2446117.04	1985 Feb 20 1300	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	Wire/Ulrich	VAFB	-
1985-S77	2446208.15	1985 May 22 1534	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	Ulrich/SMT	-	-
1985-S88	2446232.85	1985 Jun 16 0822	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	AP/Ulrich	-	-
1985-S89	2446232.93	1985 Jun 16 1015	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	-	-
1985-S101	2446261.50	1985 Jul 15	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1985-S121	2446334.85	1985 Sep 26 0825	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire(PDT)	-	-
1986-S22	2446475.50	1986 Feb 14	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-
1986-S32	2446505.00	1986 Mar 15 1200	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1986-S33	2446505.19	1986 Mar 15 1633	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1986-S34	2446506.50	1986 Mar 17	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1986-S56	2446596.83	1986 Jun 15 0800	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1986-S76	2446643.03	1986 Jul 31 1240	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/ACLS	OT	VAFB/Wire(PDT)	-	-
1986-S82	2446671.09	1986 Aug 28 1404	Minuteman 3	-	-	0.000	SAC	MF	S1	-	OT	VAFB/Wire(PDT)	-	-
1986-S94	2446698.83	1986 Sep 25 0800	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB/Wire	-	-
1987-S44	2446815.86	1987 Jan 20 0835	Minuteman 1B	-	-	0.000	AFBMO	MF	U	-	Reentry Test	VAFB	-	-
1987-S45	2446823.83	1987 Jan 28 0800?	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	VAFB	-	-
1987-S49	2446830.90	1987 Feb 4 0930	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	90SMW/321SMW/	OT	VAFB/Wire	-	-
1987-S60	2446870.85	1987 Mar 16 0822	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB/Wire	-	-
1987-S77	2446887.84	1987 Apr 2 0805?	Minuteman 3	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB/Wire	-	SICBM guidance test
1987-S100	2446972.06	1987 Jun 25 1320	Minuteman 3	-	-	0.000	SAC	MF	U	-	OT	AP/Ulrich	VAFB	-
1987-S107	2446984.69	1987 Jul 8 0435	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	SanJoseMerc	VAFB	-
1987-S108	2446989.07	1987 Jul 12 1335	Minuteman 3	-	-	0.000	SAC/ALCS	MF	U	-	OT	Ulrich/AP	-	-
1987-S140	2447039.83	1987 Sep 1 0758	Minuteman 3	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB/Wire	-	SICBM guidance test
1987-S146	2447059.50	1987 Sep 21	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	VAFB	-	-
1987-S164	2447097.58	1987 Oct 29 0148	Minuteman 2	-	-	0.000	SAC/ALCS	MS	-	-	OT	Ulrich	VAFB	-
1987-S166	2447102.85	1987 Nov 3 0825	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/	OT	VAFB/Wire	-	-
1987-S168	2447109.59	1987 Nov 10 0210	Minuteman 2	-	-	0.000	SAC	MF	S1	-	OT	VAFB/Wire	-	-
1988-S44	2447179.61	1988 Jan 19 0240	Minuteman 1B	-	-	0.000	AFBMO	MS	-	-	Reentry Test	AP/Ulrich	VAFB	-
1988-S49	2447190.12	1988 Jan 29 1500	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	AP/Ulrich	VAFB	-
1988-S98	2447316.06	1988 Jun 3 1328	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1988-S103	2447354.99	1988 Jul 12 1140	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	AP/Ulrich	VAFB	-
1988-S104	2447355.06	1988 Jul 12 1321	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1988-S130	2447462.14	1988 Oct 27 1528	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	91MW/	OT	VAFB/AP	-	-
1989-S30	2447552.08	1989 Jan 25 1357	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	VAFB	-
1989-S38	2447579.50	1989 Feb 22	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/	OT	VAFB	-	-
1989-S41	2447592.85	1989 Mar 7 0826	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	VAFB/Stars&Stripes	-	-
1989-S69	2447714.05	1989 Jul 6 1316	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	AP/Ulrich	-	-
1989-S70	2447719.20	1989 Jul 11 1651	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	90SMW/	OT	Ulrich/SMT	VAFB	-
1989-S95	2447796.05	1989 Sep 26 1314	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	SanJoseMerc890927	VAFB	-
1989-S107	2447838.18	1989 Nov 7 1617	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	AP/Ulrich	VAFB	-
1990-S36	2447928.83	1990 Feb 6 0801	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/321SMW/	OT	AP/Ulrich	VAFB	-
1990-S39	2447936.50	1990 Feb 14	Minuteman 1B	-	-	0.000	AFSC	MS	-	-	Reentry Test	VAFB	AWST900226-26	-
1990-S65	2447971.50	1990 Mar 21	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	91MW/	OT	VAFB	-	-
1990-S68	2447974.50	1990 Mar 24	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	91MW/	OT	VAFB	-	-
1990-S102	2448068.50	1990 Jun 26	Minuteman 3	-	-	0.000	SAC	MS	-	-	OT	VAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-S133	2448153.86	1990 Sep 19 0840	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	AP/Ulrich	VAFB	-
1990-S152	2448201.50	1990 Nov 6	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	VAFB	-	-
1991-S51	2448285.25	1991 Jan 28 1803:00	Minuteman 1B	-	-	0.000	AFBMO2	MS	-	-	Target	Desind	AWST910204-22	-
1991-S108	2448388.36	1991 May 11 2040	Minuteman 1B	-	-	0.000	AFBMO2	MS	-	-	Target	AWST910520-25	SN910518 (May 18)	-
1991-S113	2448428.63	1991 Jun 21 0301	Minuteman 1B	-	-	0.000	AFBMO2	MS	-	-	Reentry Test	LBPress-Tel/Ulrich	VAFB	-
1991-S115	2448433.61	1991 Jun 26 0239	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/321SMW/	OT	VAFB/Wire	-	-
1991-S122	2448439.93	1991 Jul 2 1017	Minuteman 3	-	-	0.000	SAC	MS	-	90SMW/	OT	Ulrich/Wire	VAFB	-
1991-S143	2448503.52	1991 Sep 4 0032	Minuteman 3	-	-	0.000	SAC	MS	-	91MW/	OT	Ulrich/SMT	VAFB	-
1991-S166	2448571.93	1991 Nov 11 1019	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	90MW/	OT	VAFB/Wire	-	-
1992-S29	2448695.26	1992 Mar 13 1815:00	Minuteman 1B	-	-	0.000	AFBMO2	MS	-	-	Target	VAFB	-	-
1992-S39	2448747.50	1992 May 5	Minuteman 3	-	-	0.000	SAC/ALCS	MS	-	-	OT	VAFB	-	-
1992-S48	2448775.96	1992 Jun 2 1100	Minuteman 3	-	-	0.000	ACC	MS	-	341SMW/564SMS/	OT	Ulrich/AP	VAFB	-
1992-S86	2448894.52	1992 Sep 29 0022	Minuteman 3	-	-	0.000	ACC	MS	-	90SMW/321SMW/	OT	Ulrich/SMT	VAFB	-
1992-S89	2448920.55	1992 Oct 25 0106	Minuteman 1B	-	-	0.000	AFBMO2	MF	S3	-	Target	AWST921109-62	-	-
1992-S91	2448930.58	1992 Nov 4 0200	Minuteman 3	-	-	0.000	ACC	MF	S1	91MW/	OT	JCM	-	-
1993-S21	2449056.58	1993 Mar 10 0154	Minuteman 3	-	-	0.000	ACC	MS	-	90SMW/321SMW/	OT	LBPress-Tel/Ulrich	VAFB	-
1993-A07	2449154.23	1993 Jun 15 1730	Minuteman 1B	-	-	0.000	AFBMO2	MF	S1	-	Target	SN930621-8	VAFB	-
1993-S44	2449171.50	1993 Jul 3 0001	Minuteman 3	-	-	0.000	AFSMB/ALCS	MS	-	91MW/	OT	Ulrich/Wire	VAFB	- -
1993-S57	2449231.51	1993 Sep 1 0009	Minuteman 3	-	-	0.000	AFSMB	MS	-	-	OT	Ulrich/SMT	VAFB	-
1994-S09	2449385.50	1994 Feb 2	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	90SMW/321SMW/	OT	VAFB	-	-
1994-S38	2449511.50	1994 Jun 8	Minuteman 3	-	-	0.000	AFSMC	MS	-	-	OT	VAFB	-	-
1994-S45	2449540.09	1994 Jul 6 1415	Minuteman 3	-	-	0.000	AFSMC	MS	-	91MW/	OT	Ulrich/SMT	VAFB	-
1994-S75	2449630.83	1994 Oct 5 0800	Minuteman 3	-	-	0.000	AFSMC	MS	-	91MW/	OT	AWST941010-19	-	-
1995-S08	2449749.50	1995 Feb 1	Minuteman 3	-	-	0.000	AFSMC	MS	-	-	OT	VAFB	-	-
1995-S22	2449793.50	1995 Mar 17	Minuteman 3	-	-	0.000	AFSMC	MS	-	91MW/	OT	VAFB	-	-
1996-S12	2450149.33	1996 Mar 6 2001	Minuteman 3	-	-	0.000	576FTS	MS	-	90MW/	OT	Rigg	-	-
1996-S31	2450261.01	1996 Jun 26 1217	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	91MW/	OT	VAFB	-	-
1996-S32	2450261.12	1996 Jun 26 1459	Minuteman 3	-	-	0.000	576FTS	MS	-	91MW/	OT	VAFB	-	-
1996-S57	2450354.20	1996 Sep 27 1651	Minuteman 2	-	MSLS IFT-Demo	0.000	RSLP	MS	-	-	Target	VAFB	-	-
1997-S04	2450465.55	1997 Jan 17 0117	Minuteman 2	-	MSLS IFT-1	0.000	RSLP	MS	-	-	Target	SN970120-2	-	-
1997-S06	2450478.86	1997 Jan 30 0842	Minuteman 3	-	-	0.000	576FTS	MS	-	90MW/321SMW/	OT	Wire	VAFB-WWW	-
1997-S40	2450589.85	1997 May 21 0827	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	341SMW/	OT/Reentry Test	NASA97-113	VAFB-WWW	-
1997-S46	2450617.92	1997 Jun 18 1001	Minuteman 3	-	-	0.000	576FTS	MS	-	90MW/	OT	VAFB-WWW	-	-
1997-S47	2450623.65	1997 Jun 24 0339	Minuteman 2	-	MSLS IFT-1A	0.000	RSLP	MS	-	-	Target	SN970630-15	FLATDY	-
1998-S02	2450829.64	1998 Jan 16 0325	Minuteman 2	-	MSLS IFT-2	0.000	RSLP	MS	-	-	Target	AWST980126-24	SN980119-2	-
1998-S19	2450864.85	1998 Feb 20 0818	Minuteman 3	-	-	0.000	576FTS	MF	S4	91MW/	Op Test	AP/Ulrich	VAFB-WWW	-
1998-S45	2450968.33	1998 Jun 3 1957	Minuteman 3	-	-	0.000	576FTS	MS	-	90MW/91MW/	Op Test	www.schnapp.org	VAFB-WWW	-
1998-S48	2450988.83	1998 Jun 24 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Test	VAFB-WWW	-	-
1998-S49	2450989.03	1998 Jun 24 1246	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Op Test	VAFB-WWW	-	-
1998-S53	2451074.83	1998 Sep 18 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	AFSMC/	Test	VAFB-WWW	-	-
1999-S08	2451219.84	1999 Feb 10 0806	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	Wire	-	-
1999-S54	2451410.87	1999 Aug 20 0845:59	Minuteman 3	-	-	0.000	576FTS	MS	-	341SMW/	Op Test	VAFB-PAO	-	-
1999-S55	2451410.98	1999 Aug 20 1127:00	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	VAFB-PAO	-	-
1999-S67	2451454.58	1999 Oct 3 0201	Minuteman 2	-	MSLS IFT-3	0.000	RSLP	MS	-	-	Target	VAFB-PAO	-	-
1999-S74	2451495.85	1999 Nov 13 0819	Minuteman 3	-	SPO/576FTS	0.000	576FTS	MS	-	-	Test	VAFB-PAO	-	-
2000-S02	2451562.60	2000 Jan 19 0219	Minuteman 2	-	MSLS IFT-4	0.000	RSLP	MS	-	-	Target	VAFB-PAO	-	-
2000-004	2451570.63	2000 Jan 27 0303:06	Minotaur I	-	1	0.123	RSLP	OS	-	CG/G	Sat SSO O	ASUSAT-WWW	-	-
2000-S31	2451688.83	2000 May 24 0801	Minuteman 3	-	SPO/576FTS	0.000	576FTS	MF	U	-	Test	VAFB-WWW	-	-
2000-S32	2451693.33	2000 May 28 2000	Minotaur II	-	TLV Demo	0.000	RSLP	MS	-	-	Target	VAFB-WWW	-	-
2000-S33	2451704.83	2000 Jun 9 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	ANSER	-	-
2000-S41	2451733.68	2000 Jul 8 0419	Minuteman 2	-	MSLS IFT-5	0.000	AFMC	MS	-	-	Target	VAFB-PAO	-	-
2000-042	2451745.34	2000 Jul 19 2009:00	Minotaur I	-	2	0.126	RSLP	OS	-	CG/G	Sat SSO O	Wire	-	-
2000-S56	2451815.83	2000 Sep 28 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	90SW/	Op Test	VAFB-PAO	-	-
2000-S57	2451815.92	2000 Sep 28 1001	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test/Target	VAFB-PAO	-	20 decoys
2001-S06	2451947.89	2001 Feb 7 0928	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test	VAFB-PAO	-	-
2001-S35	2452105.61	2001 Jul 15 0240	Minuteman 2	-	MSLS IFT-6	0.000	AFMC	MS	-	-	Target	Wire	-	-
2001-S50	2452220.84	2001 Nov 7 0815	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	Wire	-	-
2001-S51	2452247.62	2001 Dec 4 0259	Minotaur II	-	TLV-1	0.000	576FTS	MS	-	-	Target	Wire/BMDO	Rigg	-
2002-S18	2452349.59	2002 Mar 16 0211	Minotaur II	-	TLV-2	0.000	576FTS	MS	-	-	Target	Wire	-	-
2002-S23	2452372.90	2002 Apr 8 0929	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	AFSMC/	Op Test	Wire	-	-
2002-S41	2452432.85	2002 Jun 7 0824	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test	vandenberg.af.mil	-	-
2002-S54	2452472.84	2002 Jul 17 0803	Minuteman 3	-	-	0.000	576FTS	MS	-	AFSMC/	Op Test	www.orbireport.com	-	-
2002-S59	2452537.60	2002 Sep 20 0231	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test	Wire	vandenberg.af.mil	-
2002-S66	2452562.58	2002 Oct 15 0201	Minotaur II	-	TLV-3	0.000	576FTS	MS	-	-	Target	Wire	-	-
2002-S78	2452619.85	2002 Dec 11 0826	Minotaur II	-	TLV-4	0.000	576FTS	MS	-	-	Target	Wire	-	-
2003-S24	2452801.83	2003 Jun 11 0801	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	-	Op Test	vandenberg.af.mil	-	-
2003-S37	2452857.88	2003 Aug 6 0906	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Op Test	vandenberg.af.mil	-	-
2003-S41	2452892.98	2003 Sep 10 1131	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Op Test	vandenberg.af.mil	-	-
2004-S23	2453179.86	2004 Jun 23 0832	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test	vandenberg.af.mil	-	-
2004-S27	2453209.86	2004 Jul 23 0837	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	-	Op Test	vandenberg.af.mil	-	-
2004-S44	2453263.83	2004 Sep 15 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/564SMS/	Op Test	vandenberg.af.mil	-	-
2005-011	2453472.07	2005 Apr 11 1335	Minotaur I	-	3	0.125	RSLP	OS	-	CG/G	Sat SSO O	Wire	-	-
2005-S30	2453572.83	2005 Jul 21 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Test	Wire	-	-
2005-S35	2453607.83	2005 Aug 25 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Op Test	Wire	-	NB 188GB canc.
2005-S36	2453620.87	2005 Sep 7 0853	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	Wire	-	-
2005-S37	2453627.83	2005 Sep 14 0801	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	91SW/	Op Test	vandenberg.af.mil	-	-
2005-037	2453636.60	2005 Sep 23 0224:29	Minotaur I	-	4	0.417	RSLP	OS	-	CG/G	Sat SSO O	spaceflightnow.com	-	-
2006-S04	2453782.83	2006 Feb 16 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Test	vandenberg.af.mil	-	-
2006-S13	2453833.04	2006 Apr 7 1300	Minuteman 3	-	-	0.000	576FTS	MS	-	341SW/	Op Test (Guam)	vandenberg.af.mil	-	-
2006-011	2453840.57	2006 Apr 15 0140:00	Minotaur I	-	5	0.372	RSLP	OS	-	CG/OG	Sat LEO O	spaceflightnow.com	-	-
2006-S27	2453900.85	2006 Jun 14 0822	Minuteman 3	-	-	0.000	576FTS	MS	-	90SW/	Test	Wire	-	Last Mk12
2006-S43	2453936.93	2006 Jul 20 1014	Minuteman 3	-	-	0.000	AFSMC/ALCS	MS	-	91SW/NS20	Test	Wire	-	-
2006-058	2454086.00	2006 Dec 16 1200:00	Minotaur I	-	6	0.373	RSLP	OS	-	CG/G	Sat LEO O	RS5-2007-5002	-	-
2007-S09	2454138.84	2007 Feb 7 0814	Minuteman 3	-	-	0.000	576FTS	MS	-	91SW/	Op Test	vandenberg.af.mil	-	-
2007-S17	2454180.69	2007 Mar 21 0427	Minotaur II	-	TLV-5	0.000	576FTS	MS	-	-	Target	vandenberg.af.mil	-	-
2007-014	2454214.78	2007 Apr 24 0648	Minotaur I	-	7	0.494	RSLP	OS	-	CG/G	Sat LEO O	wff.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-S34	2454335.85	2007 Aug 23 0831	Minotaur II+	-	TLV-7	0.000	576FTS	MS	-	-	Target	vandenberg.af.mil	www.mda.mil	-
2008-S13	2454558.83	2008 Apr 2 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	90SMW/91MW/341MW/	Op Test	vandenberg.af.mil	-	-
2008-S24	2454608.92	2008 May 22 1004	Minuteman 3	-	-	0.000	576FTS	MS	-	-	Op Test (Guam)	vandenberg.af.mil	-	-
2008-S38	2454691.83	2008 Aug 13 0801	Minuteman 3	-	-	0.000	576FTS	MS	-	341MW/	Op Test	Wire	Rigg	-
2008-S45	2454733.79	2008 Sep 24 0657	Minotaur II+	-	TLV-8 Chimera	0.000	576FTS	MS	-	-	Target	www.mda.mil	-	-
2008-S59	2454775.88	2008 Nov 5 0900	Minuteman 3	-	-	0.000	576FTS/ALCS	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2009-028	2454971.50	2009 May 19 2355	Minotaur I	-	8	0.407	RSLP	OS	-	CG/G	Sat LEO O	Wire	-	-
2009-S31	2455011.92	2009 Jun 29 1001	Minuteman 3	-	-	0.000	AFGSC/ALCS	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2009-S43	2455067.17	2009 Aug 23 1601	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2010-S42	2455363.92	2010 Jun 16 1001	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2010-S44	2455377.94	2010 Jun 30 1040:01	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2010-S56	2455456.92	2010 Sep 17 1003	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test (Guam)	vandenberg.af.mil	[320 km SW Guam]	-
2011-006	2455599.02	2011 Feb 6 1226	Minotaur I	-	9	0.235	RSLP	OS	-	CG/G	Sat LEO O	spaceflightnow.com	-	-
2011-S23	2455735.07	2011 Jun 22 1335	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2011-029	2455742.63	2011 Jun 30 0309:00	Minotaur I	-	10	0.475	RSLP	OS	-	CG/G	Sat LEO O	Wire	-	-
2011-S33	2455769.92	2011 Jul 27 1001	Minuteman 3	-	-	0.000	AFGSC	MF	U	341MW/	Op Test	vandenberg.af.mil	-	-
2012-S07	2455982.95	2012 Feb 25 1046	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2012-S66	2456245.96	2012 Nov 14 1107:01	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2013-S37	2456435.06	2013 May 22 1327	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2013-S79	2456557.92	2013 Sep 22 1001:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2013-S86	2456561.94	2013 Sep 26 1033	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2013-064	2456616.55	2013 Nov 20 0115	Minotaur I	-	11	0.852	RSLP	OS	-	CG/G	Sat LEO O	Wire	-	-
2013-S103	2456644.02	2013 Dec 17 1236	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2014-S57	2456924.11	2014 Sep 23 1445:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2015-S19	2457104.94	2015 Mar 23 1036:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2015-S23	2457108.95	2015 Mar 27 1053:59	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2015-S31	2457162.94	2015 May 20 1037:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2015-S44	2457253.92	2015 Aug 19 1003:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2015-S55	2457317.03	2015 Oct 21 1245:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2016-S07	2457439.82	2016 Feb 21 0734:02	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	youtube.com	-
2016-S08	2457444.79	2016 Feb 26 0701:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	youtube.com	-
2016-S55	2457636.88	2016 Sep 5 0910	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2017-S09	2457793.82	2017 Feb 9 0738:59	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2017-S28	2457869.79	2017 Apr 26 0703:06	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2017-S32	2457876.79	2017 May 3 0701:59	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2017-S67	2457967.88	2017 Aug 2 0910:00	Minuteman 3	-	-	0.000	AFGSC	MS	-	90SMW/	Op Test	vandenberg.af.mil	-	-
2018-S23	2458234.02	2018 Apr 25 1226	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2018-S25	2458252.85	2018 May 14 0823	Minuteman 3	-	-	0.000	AFGSC	MS	-	91MW/	Op Test	vandenberg.af.mil	-	-
2018-S43	2458330.98	2018 Jul 31 1138	Minuteman 3	-	-	0.000	AFGSC	MF	U	-	Op Test	vandenberg.af.mil	-	-
2018-S68	2458429.79	2018 Nov 7 0701	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2019-S06	2458520.79	2019 Feb 6 0701	Minuteman 3	-	-	0.000	AFSMC?	MS	-	-	R&D	vandenberg.af.mil	-	-
2019-S19	2458604.90	2019 May 1 0942	Minuteman 3	-	-	0.000	AFGSC	MS	-	90MW/	Op Test	vandenberg.af.mil	-	-
2019-S21	2458612.82	2019 May 9 0740	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2019-S58	2458758.84	2019 Oct 2 0813	Minuteman 3	-	-	0.000	AFGSC	MS	-	341MW/	Op Test	vandenberg.af.mil	-	-
2020-S13	2458884.86	2020 Feb 5 0833	Minuteman 3	-	-	0.000	AFSMC?	MS	-	341MW/90MW/91MW/	R&D	vandenberg.af.mil	-	-
2020-S23	2459065.81	2020 Aug 4 0721	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2020-S27	2459094.79	2020 Sep 2 0703	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2020-S36	2459151.81	2020 Oct 29 0727	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2021-S17	2459269.83	2021 Feb 24 0749	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2021-052	2459381.07	2021 Jun 15 1335	Minotaur I	-	12	0.450	NGISC	OS	-	CG/G	Sat LEO O	spaceflightnow.com	-	-
2021-S52	2459437.83	2021 Aug 11 0753	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2022-A17	2459767.75	2022 Jul 7 0601	Minotaur II+	-	-	0.000	AFSMC?	MF	U	-	R&D	Wire	-	-
2022-S80	2459807.83	2022 Aug 16 0749	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2022-S84	2459829.84	2022 Sep 7 0813	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2023-S01	2459985.79	2023 Feb 10 0701	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2023-S19	2460054.01	2023 Apr 19 1211	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2023-S37	2460193.85	2023 Sep 6 0826	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2023-S53	2460249.79	2023 Nov 1 0701	Minuteman 3	-	-	0.000	AFGSC	MF	U	-	Op Test	twitter/m51-4ever	-	-
2024-S35	2460465.83	2024 Jun 4 0756	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2024-S36	2460467.87	2024 Jun 6 0846	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2024-S39	2460479.79	2024 Jun 18 0701	Minotaur I Lite	?	13	0.000	USAF	MS	-	-	R&D	spaceforce.mil	wpafb.af.mil	-
2024-S66	2460620.79	2024 Nov 6 0701	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2025-S07	2460725.88	2025 Feb 19 0900	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-
2025-S23	2460816.79	2025 May 21 0701	Minuteman 3	-	-	0.000	AFGSC	MS	-	-	Op Test	vandenberg.af.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-A16	2460224.51	2023 Oct 7 0019:04?	Miura 1	-	SN1	-	-	-	-	ELAR	-	-	-	47	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-A16	2460224.51	2023 Oct 7 0019:04?	Miura 1	-	SN1	0.000	PLDS	SF	S1U	-	Test	youtube.com	-	Underperformed

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1992-A17	2448956.50	1992 Dec	SM-2-IV	-	-	Block IV Demo	-	-	-	WS?	-	-	-	10?	-	-
1994-A01	2449352.50	1994	SM-2-IV	-	-	Block IVA Demo	-	-	-	WS?	-	-	-	10?	-	-
1996-A06	2450297.50	1996 Aug 2	SM-2-IV	-	Aegis ETR-1A	NTW	-	-	-	WS	LC35	-	-	10	-	-
1997-A03	2450473.15	1997 Jan 24 1532	SM-2-IV	-	Aegis DTR-1A	-	-	-	-	WS	LC35	-	-	10	-	-
1997-A33	2450717.50	1997 Sep 26	SM-2-IV	-	Aegis SM-2-IV RRF	-	-	-	-	KAU	-	-	-	10?	-	-
1999-A02	2451396.08	1999 Aug 5 1359	SM-2-IV	-	-	-	-	-	-	WS	LC35	-	-	10	-	-
1999-S62	2451445.50	1999 Sep 24	SM-3	-	Aegis CTV-1A	Stellar Phoenix	-	-	CG-67	KAU	POA	-	-	107?	-	-
2000-S38	2451739.50	2000 Jul 14	SM-3	-	Aegis FTR-1	Stellar Archer	-	-	CG-70	KAU	POA	-	-	100?	-	-
2000-A05	2451781.12	2000 Aug 24 1450	SM-2-IV	-	Aegis CTV-2	Block IVA	-	-	-	WS	LC35	-	-	10?	-	-
2001-S05	2451935.67	2001 Jan 26 0403	SM-3	-	Aegis FTR-1A	Stellar Gemini	-	-	CG-70	KAU	POA	-	-	100	-	-
2002-S05	2452300.59	2002 Jan 26 0208	SM-3	-	Aegis FM-2	Stellar Eagle	-	-	CG-70	KAU	POA	-	-	160	-	-
2002-A22	2452299.15	2002 Jan 24 1530?	SM-2-IV	-	-	Lance intercept	-	-	-	WS	LC35	-	-	10?	-	-
2002-S44	2452439.56	2002 Jun 14 0129	SM-3	-	Aegis FM-3	Stellar Impact	-	-	CG-70	KAU	POA	-	-	100	-	-
2002-S72	2452600.52	2002 Nov 22 0032	SM-3	-	Aegis FM-4	Stellar Viper (LEAP)	-	-	CG-70	KAU	POA	-	-	152	-	-
2003-S26	2452809.47	2003 Jun 18 2317	SM-3	-	Aegis FM-5	Stellar Hammer	-	-	CG-70	KAU	POA	-	-	150?	-	-
2003-S51	2452985.26	2003 Dec 11 1812	SM-3	-	Aegis FM-6	Stellar Defender	-	-	CG-70	KAU	POA	-	-	137	-	-
2005-S08	2453426.38	2005 Feb 24 2104	SM-3	-	Aegis FTM 04-1 (FM7)	Stellar Dragon	-	-	CG-70	KAU	POA	-	-	150?	-	-
2005-S52	2453692.26	2005 Nov 17 1816	SM-3	-	Aegis FTM 04-2 (FM8)	Stellar Valkyrie	-	-	CG-70	KAU	POA	-	-	150?	-	-
2006-S06	2453803.36	2006 Mar 8 2045	SM-3	-	Aegis JCTV-1	Stellar Tsuru	-	-	CG-70	KAU	POA2	-	-	150?	-	-
2006-A10	2453782.50	2006 Feb 16	SM-2-IV	-	-	Subsonic target	-	-	-	WS	-	-	-	10?	-	-
2006-A02	2453880.36	2006 May 24 2036	SM-2-IV	-	Aegis SBTT	Pacific Phoenix	-	-	CG-70	KAU	POA	-	-	10?	-	-
2006-S30	2453909.42	2006 Jun 22 2204?	SM-3	-	Aegis FTM-10	Stellar Predator	-	-	CG-67	KAU	POA	-	-	150?	-	-
2007-S21	2454217.40	2007 Apr 26 2132	SM-3	-	Aegis FTM-11E4	Stellar Hunters	-	-	CG-70	KAU	POA	-	-	160	-	-
2007-S28	2454274.61	2007 Jun 23 0244	SM-3	-	Aegis FTM-12	Stellar Athena	-	-	DDG-73	KAU	POA	-	-	160	-	-
2007-S79	2454343.50	2007 Aug 31	SM-3	-	Aegis FTM-11a	-	[Details classified]	-	CG-70?	KAU	POA?	-	-	160	-	-
2007-S57	2454411.68	2007 Nov 7 0414	SM-3	-	Aegis FTM-13a	Stellar Gryphon	-	-	CG-70	KAU	POA	-	-	160	-	-
2007-S58	2454411.68	2007 Nov 7 0414	SM-3	-	Aegis FTM-13b	-	-	-	CG-70	KAU	POA	-	-	160	-	-
2007-S69	2454452.42	2007 Dec 17 2208	SM-3	-	Aegis JFTM-1	Stellar Kiji	-	-	DDG-173	KAU	POA	-	-	160	-	-
2008-S10	2454517.64	2008 Feb 21 0326	SM-3	-	Op. Burnt Frost	USA 193 intercept	-	-	CG-70	KAU	POA	-	-	250?	-	-
2008-A04	2454623.26	2008 Jun 5 1817	SM-2-IV	-	Aegis FTM-14	Stellar Scorpion	-	-	CG-70	KAU	POA	-	-	19	-	-
2008-A05	2454623.26	2008 Jun 5 1817	SM-2-IV	-	Aegis FTM-14	Stellar Scorpion	-	-	CG-70	KAU	POA	-	-	19	-	-
2008-S56	2454771.50	2008 Nov 1	SM-3	-	Aegis	PacBlitz08	-	-	DDG-60	KAU	POA	-	-	150?	-	-
2008-S58	2454771.50	2008 Nov 1	SM-3	-	Aegis	PacBlitz08	-	-	DDG-70	KAU	POA	-	-	150?	-	-
2008-S66	2454790.60	2008 Nov 20 0224	SM-3	-	Aegis JFTM-2	Stellar Hayabusa	-	-	DDG-176	KAU	POA	-	-	150?	-	-
2009-A02	2454917.31	2009 Mar 26 1920?	SM-2-IV	-	Aegis BFI	Stellar Daggers	-	-	DDG-65	WTR	W1	-	-	10?	-	-
2009-S38	2455043.65	2009 Jul 31 0342	SM-3	-	Aegis FTM-17	Stellar Avenger	-	-	DDG-70	KAU	POA	-	-	160	-	-
2009-S57	2455132.67	2009 Oct 28 0404	SM-3	-	Aegis JFTM-3	Stellar Raicho	-	-	DDG-175	KAU	POA	-	-	150?	-	-
2010-S67	2455498.63	2010 Oct 29 0309	SM-3	-	Aegis JFTM-4	Stellar Taka	-	-	DDG-174	KAU	POA	-	-	150?	-	-
2011-S13	2455666.79	2011 Apr 15 0703	SM-3	-	Aegis FTM-15	Stellar Charon	-	-	DDG-77	KAU	POA4	-	-	160	-	-
2011-S39	2455806.08	2011 Sep 1 1354	SM-3-IB	-	Aegis FTM-16 E2	-	-	-	CG-70	KAU	POA	-	-	150?	-	-
2012-S21	2456057.76	2012 May 10 0620?	SM-3-IB	-	Aegis FTM-16 E2A	Stellar Vengeance	-	-	CG-70	KAU	POA	-	-	100?	-	-
2012-S33	2456105.89	2012 Jun 27 0920?	SM-3-IB	-	Aegis FTM-18	Stellar Minotaur	-	-	CG-70	KAU	POA	-	-	150?	-	-
2012-S62	2456225.50	2012 Oct 25?	SM-3	-	Aegis FTI-01	-	-	-	DDG-62	KMR	BOA	-	-	150?	-	-
2013-S09	2456336.89	2013 Feb 13 0915?	SM-3	-	Aegis FTM-20	Stellar Eyes	-	-	CG-70	KAU	POA	-	-	150?	-	-
2013-S36	2456428.65	2013 May 16 0330?	SM-3-IB	-	Aegis FTM-19	Stellar Hecate	-	-	CG-70	KAU	POA3	-	-	150?	-	-
2013-S59	2456545.50	2013 Sep 10	SM-3	-	Aegis FTO-01	-	-	-	DDG-73	KMR	BOA	-	-	150?	-	-
2013-S65	2456554.52	2013 Sep 19 0032?	SM-3-IB	-	Aegis FTM-21	Stellar Ninja	-	-	CG-70	KAU	POA	-	-	300?	-	-
2013-S66	2456554.52	2013 Sep 19 0032?	SM-3-IB	-	Aegis FTM-21	Stellar Ninja	-	-	CG-70	KAU	POA	-	-	300?	-	-
2013-S90	2456569.73	2013 Oct 4 0537?	SM-3-IB	-	Aegis FTM-22	Stellar Raven	-	-	CG-70	KAU	POA	-	-	200?	-	-
2014-S26	2456798.73	2014 May 21 0535	SM-3-IB	-	Aegis AA CTV-01	-	-	-	-	KAU	AAMDTC	-	-	150?	-	-
2014-A44	2456826.50	2014 Jun 18	SM-6	-	Test	-	-	-	DDG-53	SNI?	-	-	-	20?	-	-
2014-A45	2456827.50	2014 Jun 19?	SM-6	-	Test	-	-	-	DDG-53	SNI?	-	-	-	20?	-	-
2014-A46	2456828.50	2014 Jun 20?	SM-6	-	Test	-	-	-	DDG-53	SNI?	-	-	-	20?	-	-
2014-A47	2456828.50	2014 Jun 20?	SM-6	-	Test	-	-	-	DDG-53	SNI?	-	-	-	20?	-	-
2014-A48	2456883.50	2014 Aug 14	SM-6	-	Test FOT&E	-	-	-	-	WS	-	-	-	20?	-	-
2014-S70	2456968.42	2014 Nov 6 2206?	SM-3-IB	-	Aegis FTM-25	Stellar Wyvern	-	-	DDG-53	KAU	POA	-	-	150?	-	-
2015-S34	2457179.50	2015 Jun 6	SM-3-IIA	-	Aegis SCD CTV-01	-	-	-	-	SNI	-	-	-	150?	-	-
2015-A10	2457232.86	2015 Jul 29 0832?	SM-6	-	Aegis MMW E1	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2015-A11	2457233.76	2015 Jul 30 0617?	SM-2-IV	-	Aegis MMW E2	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2015-A12	2457235.52	2015 Aug 1 0032?	SM-2-IV	-	Aegis MMW E3	Cruise missile intercept	-	-	DDG-53	KAU	POA	-	-	10?	-	-
2015-A13	2457236.57	2015 Aug 2 0147?	SM-6	-	Aegis MMW E4	Cruise missile intercept	-	-	DDG-53	KAU	POA	-	-	10?	-	-
2015-S68	2457315.50	2015 Oct 20	SM-3	-	MTMD Forum ASD15	-	-	-	DDG-71	SUIST	D701	-	-	100?	-	-
2015-A20	2457315.50	2015 Oct 20	SM-2-IV	-	MTMD Forum ASD15	Aegis	-	-	DDG-68	SUIST	D701	-	-	10?	-	-
2015-A19	2457327.63	2015 Nov 1 0312?	SM-3-IB	-	Aegis FTO-02 E2a	eMRBM intercept	-	-	DDG-53	WAKE	-	-	-	10?	-	-
2015-S84	2457364.50	2015 Dec 8	SM-3-IIA	-	Aegis SCD CTV-02	Stellar Kirin	-	-	-	SNI	-	-	-	150?	-	-
2015-S88	2457366.50	2015 Dec 10	SM-3-IB	-	Aegis FTO-02 E1a	Aegis Ashore	-	-	-	KAU	AAMDTC	-	-	150?	-	-
2016-A01	2457387.50	2016 Jan	SM-6	-	FOT&E	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-A02	2457387.50	2016 Jan	SM-6	-	FOT&E	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-A03	2457387.50	2016 Jan	SM-6	-	FOT&E	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-A04	2457387.50	2016 Jan	SM-6	-	FOT&E	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-A05	2457387.50	2016 Jan	SM-6	-	FOT&E	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-S32	2457533.50	2016 May 25	SM-3-IB	-	Aegis TU CTV-01a	-	-	-	DDG-70	KAU	POA	-	-	100?	-	-
2016-S33	2457534.50	2016 May 26	SM-3-IB	-	Aegis TU CTV-02	-	-	-	DDG-70	KAU	POA	-	-	100?	-	-
2016-A47	2457737.50	2016 Dec 15	SM-6	-	Aegis FTM-27	Stellar Crossbow	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2016-A48	2457737.50	2016 Dec 15	SM-6	-	Aegis FTM-27	Stellar Crossbow	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2017-S08	2457788.86	2017 Feb 4 0833?	SM-3-IIA	-	Aegis SFTM-01	-	-	-	DDG-53	KAU	POA	-	-	150?	-	-
2017-S48	2457926.72	2017 Jun 22 0523?	SM-3-IIA	-	Aegis SFTM-02?	-	-	-	DDG-53	KAU	-	-	-	200?	-	-
2017-A11	2457994.50	2017 Aug 29	SM-6	-	Aegis FTM-27E2	-	-	-	DDG-53	KAU	POA	-	-	20?	-	-
2017-S89	2458041.50	2017 Oct 15	SM-3-IB	-	Aegis	Formidable Shield	-	-	DDG-75	SUIST	D701	-	-	100?	-	-
2017-A13	2458041.50	2017 Oct 15	SM-6	-	Aegis SM CTV-03	-	-	-	DDG-74	SUIST	D701	-	-	20?	-	-
2018-S07	2458149.50	2018 Jan 31	SM-3-IIA	-	Aegis FTM-29	Aegis Ashore	-	-	-	KAU	AAMDTC	-	-	150?	-	-
2018-S51	2458373.86	2018 Sep 12 0840?	SM-3-IB	-	Aegis JFTM-05	Stellar Fukurou	-	-	DDG-177	KAU	POA	-	-	150?	-	-
2018-S67	2458417.50	2018 Oct 26	SM-3-IIA	-	Aegis FTM-45	Stellar Alaris	-	-	DDG-113	KAU	POA	-	-	150?	-	-
2018-S77	2458462.50	2018 Dec 10	SM-3-IIA	-	Aegis FTI-03	Stellar Wawel	-	-	-	KAU	AAMDTC	-	-	150?	-	-
2019-S23	2458613.50	2019 May 10	SM-3-IB	-	Aegis	Formidable Shield 19E4	-	-	DDG-80	SUIST	D701	-	-	150?	-	-
2020-S41	2459170.75	2020 Nov 17 0605?	SM-3-IIA	-	Aegis FTM-44	Stellar Lancer	-	-	DDG-113	KAU	POA	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-S30	2459360.50	2021 May 26	SM-3	-	-	ASD/FS-21	Formidable Shield	-	DDG-117	SUIST	D701D?	-	-	300?	-	-
2021-A08	2459363.50	2021 May 29	SM-6	-	Aegis FTM-31E1	-	-	-	DDG-UNK	KAU	POA	-	-	20?	-	-
2021-A09	2459363.50	2021 May 29	SM-6	-	Aegis FTM-31E1	-	-	-	DDG-UNK	KAU	POA	-	-	20?	-	-
2021-S33	2459364.50	2021 May 30	SM-3	-	-	ASD/FS-21	Formidable Shield	-	DDG-117	SUIST	D701D?	-	-	300?	-	-
2021-A12	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	-	-	-	DDG-114	KAU	POA	-	-	20?	-	-
2021-A13	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	-	-	-	DDG-114	KAU	POA	-	-	20?	-	-
2021-A14	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	-	-	-	DDG-114	KAU	POA	-	-	20?	-	-
2021-A15	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	-	-	-	DDG-114	KAU	POA	-	-	20?	-	-
2022-S100	2459800.50	2022 Aug 9	SM-3	-	PD22	Pacific Dragon 22	-	-	DDG-62	KAU	POA	-	-	20?	-	-
2022-S124	2459899.50	2022 Nov 16	SM-3-IIA	-	Aegis JFTM-07	-	-	-	DDG-179	KAU	POA	-	-	200?	-	-
2022-S126	2459902.50	2022 Nov 19	SM-3-IB	-	Aegis JFTM-07	-	-	-	DDG-180	KAU	POA	-	-	150?	-	-
2023-A09	2460033.50	2023 Mar 30	SM-6	-	Aegis FTM-31E1a	Stellar Hydra	-	-	DDG-118	KAU	POA	-	-	20?	-	-
2023-A10	2460033.50	2023 Mar 30	SM-6	-	Aegis FTM-31E1a	Stellar Hydra	-	-	DDG-118	KAU	POA	-	-	20?	-	-
2023-S49	2460242.50	2023 Oct 25	SM-3	-	Aegis FTM-48	Vigilant Wyvern	-	-	DDG-120	KAU	POA	-	-	150?	-	-
2023-S50	2460242.50	2023 Oct 25	SM-3	-	Aegis FTM-48	Vigilant Wyvern	-	-	DDG-120	KAU	POA	-	-	150?	-	-
2024-S03	2460348.50	2024 Feb 8	SM-3-IIA	-	Aegis FTX-23	Stellar Sisyphus	-	-	DDG-85	KAU	LP7	-	-	150?	-	-
2024-A03	2460397.50	2024 Mar 28	SM-6	-	Aegis FTM-32	Stellar Laelaps	-	-	DDG-88	KAU	POA	-	-	20?	-	-
2024-A04	2460397.50	2024 Mar 28	SM-6	-	Aegis FTM-32	Stellar Laelaps	-	-	DDG-88	KAU	POA	-	-	20?	-	-
2024-S25	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-51	EMED	-	-	-	100?	-	-
2024-S26	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-51	EMED	-	-	-	100?	-	-
2024-S27	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-51	EMED	-	-	-	100?	-	-
2024-S28	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-64	EMED	-	-	-	100?	-	-
2024-S29	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-64	EMED	-	-	-	100?	-	-
2024-S30	2460414.48	2024 Apr 13 2330?	SM-3	-	-	-	-	-	DDG-64	EMED	-	-	-	100?	-	-
2024-S83	2460654.50	2024 Dec 10	SM-3-IIA	-	Aegis FEM-02	-	-	-	-	GUAMA	LA1	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1992-A17	2448956.50	1992 Dec	SM-2-IV	-	-	0.000	USNAEG	MS	-	-	Test	designation-systems	-	-
1994-A01	2449352.50	1994	SM-2-IV	-	-	0.000	USNAEG	MS	-	-	Test	designation-systems	-	-
1996-A06	2450297.50	1996 Aug 2	SM-2-IV	-	Aegis ETR-1A	0.000	USNAEG	MS	-	-	Test	www.dote.osd.mil	-	-
1997-A03	2450473.15	1997 Jan 24 1532	SM-2-IV	-	Aegis DTR-1A	0.000	USNAEG	MS	-	-	Test	www.chinfo.navy.mil	-	-
1997-A33	2450717.50	1997 Sep 26	SM-2-IV	-	Aegis SM-2-IV RRF	0.000	USNAEG	MF	U	-	Test	www.mda.mil	-	-
1999-A02	2451396.08	1999 Aug 5 1359	SM-2-IV	-	-	0.000	USNAEG	MS	-	-	Test	defensebriefing.com	-	-
1999-S62	2451445.50	1999 Sep 24	SM-3	-	Aegis CTV-1A	0.000	USNAEG	MS	-	-	Test	www.acq.osd.mil	-	-
2000-S38	2451739.50	2000 Jul 14	SM-3	-	Aegis FTR-1	0.000	USNAEG	MF	U	-	Test	cdi.org	AWST001127-36	-
2000-A05	2451781.12	2000 Aug 24 1450	SM-2-IV	-	Aegis CTV-2	0.000	USNAEG	MS	-	-	Test	www.mda.mil	www.acq.osd.mil	-
2001-S05	2451935.67	2001 Jan 26 0403	SM-3	-	Aegis FTR-1A	0.000	USNAEG	MS	-	-	Test	AWST010205-39	-	-
2002-S05	2452300.59	2002 Jan 26 0208	SM-3	-	Aegis FM-2	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2002-A22	2452299.15	2002 Jan 24 1530?	SM-2-IV	-	-	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2002-S44	2452439.56	2002 Jun 14 0129	SM-3	-	Aegis FM-3	0.000	USNAEG	MS	-	-	Test	www.dcmilitary.com	-	-
2002-S72	2452600.52	2002 Nov 22 0032	SM-3	-	Aegis FM-4	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2003-S26	2452809.47	2003 Jun 18 2317	SM-3	-	Aegis FM-5	0.000	USNAEG	MS	-	-	Interceptor	SN030623-4	-	-
2003-S51	2452985.26	2003 Dec 11 1812	SM-3	-	Aegis FM-6	0.000	USNAEG	MS	-	-	Interceptor	www.dod.mil	AWST031215-18	-
2005-S08	2453426.38	2005 Feb 24 2104	SM-3	-	Aegis FTM 04-1 (FM7)	0.000	USNAEG	MS	-	-	Interceptor	www.spaceref.com	-	-
2005-S52	2453692.26	2005 Nov 17 1816	SM-3	-	Aegis FTM 04-2 (FM8)	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2006-S06	2453803.36	2006 Mar 8 2045	SM-3	-	Aegis JCTV-1	0.000	USNAEG	MS	-	-	Test	www.mda.mil	AWST060313-18	-
2006-A10	2453782.50	2006 Feb 16	SM-2-IV	-	-	0.000	USNAEG	MS	-	-	Test	raytheon.mediaroom	-	-
2006-A02	2453880.36	2006 May 24 2036	SM-2-IV	-	Aegis SBTT	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2006-S30	2453909.42	2006 Jun 22 2204?	SM-3	-	Aegis FTM-10	0.000	USNAEG	MS	-	-	Test	www.boeing.com	-	-
2007-S21	2454217.40	2007 Apr 26 2132	SM-3	-	Aegis FTM-11E4	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2007-S28	2454274.61	2007 Jun 23 0244	SM-3	-	Aegis FTM-12	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2007-S79	2454343.50	2007 Aug 31	SM-3	-	Aegis FTM-11a	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2007-S57	2454411.68	2007 Nov 7 0414	SM-3	-	Aegis FTM-13a	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2007-S58	2454411.68	2007 Nov 7 0414	SM-3	-	Aegis FTM-13b	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2007-S69	2454452.42	2007 Dec 17 2208	SM-3	-	Aegis JFTM-1	0.000	JMSDF	MS	-	-	Test	www.mda.mil	-	-
2008-S10	2454517.64	2008 Feb 21 0326	SM-3	-	Op. Burnt Frost	0.000	USNAEG/ABMDA	MS	-	-	Test	Wire	-	-
2008-A04	2454623.26	2008 Jun 5 1817	SM-2-IV	-	Aegis FTM-14	0.000	USNAEG	MS	-	-	Test Sea-Based Terminal	www.mda.mil	-	-
2008-A05	2454623.26	2008 Jun 5 1817	SM-2-IV	-	Aegis FTM-14	0.000	USNAEG	MS	-	-	Test Sea-Based Terminal	www.mda.mil	-	-
2008-S56	2454771.50	2008 Nov 1	SM-3	-	Aegis	0.000	MDA	MS	-	-	Interceptor	mda.mil	-	-
2008-S58	2454771.50	2008 Nov 1	SM-3	-	Aegis	0.000	MDA	MS	-	-	Interceptor	mda.mil	-	-
2008-S66	2454790.60	2008 Nov 20 0224	SM-3	-	Aegis JFTM-2	0.000	JMSDF	MS	-	-	Interceptor	mda.mil	-	-
2009-A02	2454917.31	2009 Mar 26 1920?	SM-2-IV	-	Aegis BFI	0.000	USNAEG	MS	-	-	Interceptor	www.navy.mil	-	-
2009-S38	2455043.65	2009 Jul 31 0342	SM-3	-	Aegis FTM-17	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2009-S57	2455132.67	2009 Oct 28 0404	SM-3	-	Aegis JFTM-3	0.000	JMSDF	MS	-	-	Interceptor	mda.mil	-	-
2010-S67	2455498.63	2010 Oct 29 0309	SM-3	-	Aegis JFTM-4	0.000	JMSDF	MS	-	-	Interceptor	mda.mil	-	-
2011-S13	2455666.79	2011 Apr 15 0703	SM-3	-	Aegis FTM-15	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2011-S39	2455806.08	2011 Sep 1 1354	SM-3-IB	-	Aegis FTM-16 E2	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2012-S21	2456057.76	2012 May 10 0620?	SM-3-IB	-	Aegis FTM-16 E2A	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2012-S33	2456105.89	2012 Jun 27 0920?	SM-3-IB	-	Aegis FTM-18	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2012-S62	2456225.50	2012 Oct 25?	SM-3	-	Aegis FTI-01	0.000	MDA	MS	-	-	ABM Test	www.mda.mil	-	-
2013-S09	2456336.89	2013 Feb 13 0915?	SM-3	-	Aegis FTM-20	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2013-S36	2456428.65	2013 May 16 0330?	SM-3-IB	-	Aegis FTM-19	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2013-S59	2456545.50	2013 Sep 10	SM-3	-	Aegis FTO-01	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2013-S65	2456554.52	2013 Sep 19 0032?	SM-3-IB	-	Aegis FTM-21	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2013-S66	2456554.52	2013 Sep 19 0032?	SM-3-IB	-	Aegis FTM-21	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2013-S90	2456569.73	2013 Oct 4 0537?	SM-3-IB	-	Aegis FTM-22	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2014-S26	2456798.73	2014 May 21 0535	SM-3-IB	-	Aegis AA CTV-01	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2014-A44	2456826.50	2014 Jun 18	SM-6	-	Test	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2014-A45	2456827.50	2014 Jun 19?	SM-6	-	Test	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2014-A46	2456828.50	2014 Jun 20?	SM-6	-	Test	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2014-A47	2456828.50	2014 Jun 20?	SM-6	-	Test	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2014-A48	2456883.50	2014 Aug 14	SM-6	-	Test FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2014-S70	2456968.42	2014 Nov 6 2206?	SM-3-IB	-	Aegis FTM-25	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	180km off KAU
2015-S34	2457179.50	2015 Jun 6	SM-3-IIA	-	Aegis SCD CTV-01	0.000	MDA/JMSDF	MS	-	-	Test	mda.mil	-	-
2015-A10	2457232.86	2015 Jul 29 0832?	SM-6	-	Aegis MMW E1	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2015-A11	2457233.76	2015 Jul 30 0617?	SM-2-IV	-	Aegis MMW E2	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2015-A12	2457235.52	2015 Aug 1 0032?	SM-2-IV	-	Aegis MMW E3	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2015-A13	2457236.57	2015 Aug 2 0147?	SM-6	-	Aegis MMW E4	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2015-S68	2457315.50	2015 Oct 20	SM-3	-	MTMD Forum ASD15	0.000	USNAEG	MS	-	-	Interceptor	navy.mil	-	-
2015-A20	2457315.50	2015 Oct 20	SM-2-IV	-	MTMD Forum ASD15	0.000	USNAEG	MS	-	-	Interceptor	navy.mil	-	-
2015-A19	2457327.63	2015 Nov 1 0312?	SM-3-IB	-	Aegis FTO-02 E2a	0.000	USNAEG	MF	U	-	Interceptor	www.mda.mil	-	-
2015-S84	2457364.50	2015 Dec 8	SM-3-IIA	-	Aegis SCD CTV-02	0.000	MDA/JMSDF	MS	-	-	Test	mda.mil	-	-
2015-S88	2457366.50	2015 Dec 10	SM-3-IB	-	Aegis FTO-02 E1a	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2016-A01	2457387.50	2016 Jan	SM-6	-	FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2016-A02	2457387.50	2016 Jan	SM-6	-	FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2016-A03	2457387.50	2016 Jan	SM-6	-	FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2016-A04	2457387.50	2016 Jan	SM-6	-	FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2016-A05	2457387.50	2016 Jan	SM-6	-	FOT&E	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2016-S32	2457533.50	2016 May 25	SM-3-IB	-	Aegis TU CTV-01a	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2016-S33	2457534.50	2016 May 26	SM-3-IB	-	Aegis TU CTV-02	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2016-A47	2457737.50	2016 Dec 15	SM-6	-	Aegis FTM-27	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2016-A48	2457737.50	2016 Dec 15	SM-6	-	Aegis FTM-27	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2017-S08	2457788.86	2017 Feb 4 0833?	SM-3-IIA	-	Aegis SFTM-01	0.000	MDA	MS	-	-	Interceptor	mda.mil	-	-
2017-S48	2457926.72	2017 Jun 22 0523?	SM-3-IIA	-	Aegis SFTM-02?	0.000	MDA	MF	U	-	Target	mda.mil	-	-
2017-A11	2457994.50	2017 Aug 29	SM-6	-	Aegis FTM-27E2	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2017-S89	2458041.50	2017 Oct 15	SM-3-IB	-	Aegis	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2017-A13	2458041.50	2017 Oct 15	SM-6	-	Aegis SM CTV-03	0.000	USNAEG	MS	-	-	Test	www.mda.mil	-	-
2018-S07	2458149.50	2018 Jan 31	SM-3-IIA	-	Aegis FTM-29	0.000	USNAEG	MF	U	-	Interceptor	mda.mil	-	St3f
2018-S51	2458373.86	2018 Sep 12 0840?	SM-3-IB	-	Aegis JFTM-05	0.000	JMSDF	MS	-	-	Interceptor	mda.mil	-	-
2018-S67	2458417.50	2018 Oct 26	SM-3-IIA	-	Aegis FTM-45	0.000	JMSDF	MS	-	-	Interceptor	mda.mil	-	-
2018-S77	2458462.50	2018 Dec 10	SM-3-IIA	-	Aegis FTI-03	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-
2019-S23	2458613.50	2019 May 10	SM-3-IB	-	Aegis	0.000	USNAEG	MS	-	-	Interceptor	wire	-	-
2020-S41	2459170.75	2020 Nov 17 0605?	SM-3-IIA	-	Aegis FTM-44	0.000	USNAEG	MS	-	-	Interceptor	mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-S30	2459360.50	2021 May 26	SM-3	-	-	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2021-A08	2459363.50	2021 May 29	SM-6	-	Aegis FTM-31E1	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2021-A09	2459363.50	2021 May 29	SM-6	-	Aegis FTM-31E1	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2021-S33	2459364.50	2021 May 30	SM-3	-	-	0.000	USNAEG	MS	-	-	Target	Wire	-	-
2021-A12	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2021-A13	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2021-A14	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2021-A15	2459419.50	2021 Jul 24	SM-6	-	Aegis FTM-33	0.000	USNAEG	MS	-	-	Test	Wire	-	Uncertain
2022-S100	2459800.50	2022 Aug 9	SM-3	-	PD22	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2022-S124	2459899.50	2022 Nov 16	SM-3-IIA	-	Aegis JFTM-07	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2022-S126	2459902.50	2022 Nov 19	SM-3-IB	-	Aegis JFTM-07	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2023-A09	2460033.50	2023 Mar 30	SM-6	-	Aegis FTM-31E1a	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2023-A10	2460033.50	2023 Mar 30	SM-6	-	Aegis FTM-31E1a	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2023-S49	2460242.50	2023 Oct 25	SM-3	-	Aegis FTM-48	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2023-S50	2460242.50	2023 Oct 25	SM-3	-	Aegis FTM-48	0.000	USNAEG	MS	-	-	Test	Wire	-	-
2024-S03	2460348.50	2024 Feb 8	SM-3-IIA	-	Aegis FTX-23	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2024-A03	2460397.50	2024 Mar 28	SM-6	-	Aegis FTM-32	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2024-A04	2460397.50	2024 Mar 28	SM-6	-	Aegis FTM-32	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-
2024-S25	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S26	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S27	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S28	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S29	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S30	2460414.48	2024 Apr 13 2330?	SM-3	-	-	0.000	USNAEG	MS	-	-	Interceptor Weapon	Wire	-	-
2024-S83	2460654.50	2024 Dec 10	SM-3-IIA	-	Aegis FEM-02	0.000	USNAEG	MS	-	-	Interceptor	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-A08	2457964.81	2017 Jul 30 0732	Momo	-	-	TF-1	-	-	-	TAIKI	-	-	-	40?	-	-
2018-A90	2458299.35	2018 Jun 29 2030	Momo	-	-	TF-2	-	-	-	TAIKI	-	-	-	0	-	-
2019-S20	2458607.36	2019 May 3 2045	Momo	-	-	TF-3	-	-	-	TAIKI	-	-	-	118	-	-
2019-A99	2458691.81	2019 Jul 27 0720	Momo	-	-	TF-4	-	-	-	TAIKI	-	-	-	13	-	-
2020-A13	2459014.34	2020 Jun 13 2015:00	Momo	-	-	TF-5	-	-	-	TAIKI	-	-	-	12	4	-
2021-S39	2459398.86	2021 Jul 3 0845	Momo	-	-	TF-7	-	-	-	TAIKI	-	-	-	99	-	-
2021-S51	2459426.83	2021 Jul 31 0800	Momo	6	-	TF-6	Tenga	-	-	TAIKI	-	-	-	92	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-A08	2457964.81	2017 Jul 30 0732	Momo	-	-	0.000	IST	SF	U	-	-	youtube.com	-	-
2018-A90	2458299.35	2018 Jun 29 2030	Momo	-	-	0.000	IST	SF	U	-	-	youtube.com	-	-
2019-S20	2458607.36	2019 May 3 2045	Momo	-	-	0.000	IST	SS	-	-	-	twitter.com	-	-
2019-A99	2458691.81	2019 Jul 27 0720	Momo	-	-	0.000	IST	SF	U	-	-	twitter.com	-	-
2020-A13	2459014.34	2020 Jun 13 2015:00	Momo	-	-	0.000	IST	SF	U	-	-	twitter.com	-	-
2021-S39	2459398.86	2021 Jul 3 0845	Momo	-	-	0.000	IST	SS	-	-	-	twitter.com	-	-
2021-S51	2459426.83	2021 Jul 31 0800	Momo	6	-	0.000	IST	SS	-	-	-	twitter.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A400	2435163.50	1955 Feb 25?	Monica I	-	I	Camp. 1 to Mar 7	-	-	-	HMG	Bechar	-	-	40?	-	-
1955-A401	2435209.50	1955 Apr 12?	Monica I	-	I	Camp. 2 to Apr 19	-	-	-	HMG	Bechar	-	-	40?	-	-
1955-A402	2435260.50	1955 Jun 2?	Monica I	-	I	Camp. 3 to Jun 11	-	-	-	HMG	Bechar	-	-	40?	-	-
1955-A501	2435382.50	1955 Oct 2?	Monica I	-	I	Camp. 4 to Oct 11	-	-	-	HMG	Bechar	-	-	40?	-	-
1956-A03	2435489.50	1956 Jan 17?	Monica I	-	I	Camp. 5 to Feb 2	-	-	-	HMG	Bechar	-	-	40?	-	-
1956-S25	2435615.50	1956 May 22?	Monica I	-	I	Camp. 6 to jun 13	-	-	-	CERES	-	-	-	90?	-	-
1956-S26	2435593.50	1956 May	Monica I	-	I	-	-	-	-	CERES	-	-	-	90?	-	-
1957-S10	2435838.50	1957 Jan	Monica I	?	-	-	-	-	-	CERES	-	-	-	90?	-	-
1957-S11	2435869.50	1957 Feb	Monica I	?	-	-	-	-	-	CERES	-	-	-	90	-	-
1957-S28	2435986.50	1957 May 28	Monica I	?	-	-	-	-	-	CERES	-	-	-	90	-	-
1957-S29	2435958.50	1957 May	Monica I	?	-	-	-	-	-	CERES	-	-	-	90	-	-
1959-S189	2436841.50	1959 Oct	Monica IV	?	-	-	-	-	-	CERES	-	-	-	90	-	-
1959-S190	2436841.50	1959 Oct	Monica IV	?	-	-	-	-	-	CERES	-	-	-	90	-	-
1959-S285	2436872.50	1959 Nov	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-
1959-S286	2436872.50	1959 Nov?	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-
1959-S287	2436872.50	1959 Nov?	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-
1959-S288	2436902.50	1959 Dec?	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-
1959-S289	2436902.50	1959 Dec	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-
1960-S27	2436964.50	1960 Feb	Monica IV	?	-	-	-	-	-	HMG	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A400	2435163.50	1955 Feb 25?	Monica I	-	I	0.000	CASDN	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1955-A401	2435209.50	1955 Apr 12?	Monica I	-	I	0.000	CASDN	SS	-	CNRS/PARIS/Vassy	Test/Aeron	univ-perp.fr	-	-
1955-A402	2435260.50	1955 Jun 2?	Monica I	-	I	0.000	CASDN	SS	-	CNRS/PARIS/Vassy	Test/Aeron	univ-perp.fr	-	-
1955-A501	2435382.50	1955 Oct 2?	Monica I	-	I	0.000	CASDN	SS	-	CNRS/PARIS/Vassy	Test/Aeron	univ-perp.fr	-	-
1956-A03	2435489.50	1956 Jan 17?	Monica I	-	I	0.000	CASDN	SS	-	CNRS/PARIS/Vassy	Test/Release	univ-perp.fr	-	-
1956-S25	2435615.50	1956 May 22?	Monica I	-	I	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	univ-perp.fr	-	-
1956-S26	2435593.50	1956 May	Monica I	-	I	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	univ-perp.fr	-	-
1957-S10	2435838.50	1957 Jan	Monica I	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	IAA-00-IAA.2.203	-	-
1957-S11	2435869.50	1957 Feb	Monica I	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	IAA-00-IAA.2.203	-	-
1957-S28	2435986.50	1957 May 28	Monica I	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	IAC-02-IAA.2.3.01	-	-
1957-S29	2435958.50	1957 May	Monica I	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	univ-perp.fr	-	-
1959-S189	2436841.50	1959 Oct	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	IAA-00-IAA.2.203	-	-
1959-S190	2436841.50	1959 Oct	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	univ-perp.fr	-	-
1959-S285	2436872.50	1959 Nov	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1959-S286	2436872.50	1959 Nov?	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1959-S287	2436872.50	1959 Nov?	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1959-S288	2436902.50	1959 Dec?	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1959-S289	2436902.50	1959 Dec	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	Moulin/Serra	-	-
1960-S27	2436964.50	1960 Feb	Monica IV	?	-	0.000	ATEF	SS	-	CNRS/PARIS/Vassy	Test	IAA-00-IAA.2.203	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A132	2439429.71	1966 Oct 31 0504	Mu-1	-	M-1-1	-	-	-	-	KASC	M	-	-	34	-	-
1969-S455	2440450.75	1969 Aug 17 0600	Mu-3D	-	M-3D-1	-	-	-	-	KASC	M	-	-	160	-	-
1970-F08	2440854.71	1970 Sep 25 0500:00	Mu-4S	-	M-4S-1	MS-F1	MS-F1	-	-	KASC	M	-	-	712	-	-
1971-011	2440998.67	1971 Feb 16 0400:00	Mu-4S	-	M-4S-2	Tansei	MS-T1	-	-	KASC	M	-	-	1234	-	-
1971-080	2441222.67	1971 Sep 28 0400:00	Mu-4S	-	M-4S-3	Shinsei	MS-F2	-	-	KASC	M	-	-	1868	-	-
1972-064	2441548.61	1972 Aug 19 0240:00	Mu-4S	-	M-4S-4	Denpa	REXS	-	-	KASC	M	-	-	6360	-	-
1974-008	2442094.71	1974 Feb 16 0500:00	Mu-3C	-	M-3C-1	Tansei-2	MS-T2	-	-	KASC	M	-	-	3266	-	-
1974-S290	2442292.75	1974 Sep 2 0600	ETV	-	ETV-1	-	-	-	-	TNSC	Q	-	-	128	-	-
1975-S61	2442448.75	1975 Feb 5 0600	ETV	-	ETV-2	-	-	-	-	TNSC	Q	-	-	167	-	-
1975-014	2442467.73	1975 Feb 24 0525	Mu-3C	-	M-3C-2	Taiyo	SRATS	-	-	KASC	M	-	-	3132	-	-
1976-F01	2442812.75	1976 Feb 4 0600	Mu-3C	-	M-3C-3	CORSA	CORSA	-	-	KASC	M	-	-	84	-	-
1977-012	2443193.72	1977 Feb 19 0515	Mu-3H	-	M-3H-1	Tansei-3/KM-A	MS-T3	-	-	KASC	M	-	-	3820	-	-
1978-014	2443543.79	1978 Feb 4 0700	Mu-3H	-	M-3H-2	Kyokko/KM -A	EXOS-A	-	-	KASC	M	-	-	4062	-	-
1978-087	2443767.71	1978 Sep 16 0500	Mu-3H	-	M-3H-3	Jikiken/KM -B	EXOS-B	-	-	KASC	M	-	-	30064	-	-
1979-014	2443925.71	1979 Feb 21 0500	Mu-3C	-	M-3C-4	Hakucho	CORSA-b	-	-	KASC	M	-	-	573	-	-
1980-015	2444286.53	1980 Feb 17 0040	Mu-3S	-	M-3S-1	Tansei-4	MS-T4	-	-	KASC	M	-	-	606	-	-
1981-017	2444656.52	1981 Feb 21 0030	Mu-3S	-	M-3S-2	Hinotori	ASTRO-A	-	-	KASC	M	-	-	703	-	-
1983-011	2445385.72	1983 Feb 20 0510	Mu-3S	-	M-3S-3	Tenma	ASTRO-B	-	-	KASC	M1	-	-	558	-	-
1984-015	2445744.83	1984 Feb 14 0800	Mu-3S	-	M-3S-4	Ohzora	EXOS-C	-	-	KASC	M1	-	-	869	-	-
1985-001	2446073.31	1985 Jan 7 1926	Mu-3S-II	-	M-3S2-1	Sakigake/KM-P	MS-T5	-	-	KASC	M1	-	-	150000	-	-
1985-073	2446296.48	1985 Aug 18 2333	Mu-3S-II	-	M-3S2-2	Suisei/KM-P	PLANET-A	-	-	KASC	M1	-	-	150000	-	-
1987-012	2446831.77	1987 Feb 5 0630	Mu-3S-II	-	M-3S2-3	Ginga	ASTRO-C	-	-	KASC	M1	-	-	706	-	-
1989-016	2447579.48	1989 Feb 21 2330:00	Mu-3S-II	-	M-3S2-4	Akebono/KM-D	EXOS-D	-	-	KASC	M1	-	-	10474	-	-
1990-007	2447915.99	1990 Jan 24 1146:00	Mu-3S-II	-	M-3S2-5	Hiten/KM-M	MUSES-A	-	-	KASC	M1	-	-	150000	-	-
1991-062	2448498.60	1991 Aug 30 0230	Mu-3S-II	-	M-3S2-6	Yohkoh	SOLAR-A	-	-	KASC	M1	-	-	791	-	-
1993-011	2449038.60	1993 Feb 20 0220	Mu-3S-II	-	M-3S2-7	Asuka	ASTRO-D	-	-	KASC	M1	-	-	647	-	-
1995-U01	2449733.07	1995 Jan 15 1345	Mu-3S-II	-	M-3S2-8	EXPRESS/KM-M	EXPRESS	-	-	KASC	M1	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A132	2439429.71	1966 Oct 31 0504	Mu-1	-	M-1-1	0.000	ISAS	TS	-	-	Test	ISTS	SP-4007	-
1969-S455	2440450.75	1969 Aug 17 0600	Mu-3D	-	M-3D-1	0.000	ISAS	TS	-	-	Test	MU4S-304	WDCRF	-
1970-F08	2440854.71	1970 Sep 25 0500:00	Mu-4S	-	M-4S-1	0.062	ISAS	OF	S4G	G	Sat LEO O	ISAS-Doc320	Asahi700925	RCS stuck thruster
1971-011	2440998.67	1971 Feb 16 0400:00	Mu-4S	-	M-4S-2	0.063	ISAS	OS	-	G	Sat LEO O	ISAS-Doc320	ISST9	-
1971-080	2441222.67	1971 Sep 28 0400:00	Mu-4S	-	M-4S-3	0.066	ISAS	OS	-	G	Sat LEO O	ISAS-Doc320	-	-
1972-064	2441548.61	1972 Aug 19 0240:00	Mu-4S	-	M-4S-4	0.075	ISAS	OS	-	G	Sat MEO O	ISAS-Doc320	SP-4017	-
1974-008	2442094.71	1974 Feb 16 0500:00	Mu-3C	-	M-3C-1	0.056	ISAS	OS	-	G	Sat MEO O	ISAS-Doc312	-	-
1974-S290	2442292.75	1974 Sep 2 0600	ETV	-	ETV-1	0.000	NASDA	TS	-	-	Test	NASDA-WWW	-	-
1975-S61	2442448.75	1975 Feb 5 0600	ETV	-	ETV-2	0.000	NASDA	TS	-	-	Test	NASDA-WWW	-	-
1975-014	2442467.73	1975 Feb 24 0525	Mu-3C	-	M-3C-2	0.086	ISAS	OS	-	G	Sat MEO O	ISRJ29.3.99	-	-
1976-F01	2442812.75	1976 Feb 4 0600	Mu-3C	-	M-3C-3	0.085	ISAS	OF	S2G	G	Sat LEO O	Asahi760204	SRJ	TVC failed
1977-012	2443193.72	1977 Feb 19 0515	Mu-3H	-	M-3H-1	0.187	ISAS	OS	-	G	Sat MEO OO 1	Asahi770220	ISAS-Doc312	-
1978-014	2443543.79	1978 Feb 4 0700	Mu-3H	-	M-3H-2	0.184	ISAS	OS	-	G	Sat MEO OO	ISAS-Doc456	-	-
1978-087	2443767.71	1978 Sep 16 0500	Mu-3H	-	M-3H-3	0.374	ISAS	OS	-	G	Sat HEO SO	Asahi780917	-	-
1979-014	2443925.71	1979 Feb 21 0500	Mu-3C	-	M-3C-4	0.095	ISAS	OS	-	G	Sat LEO O	ISAS-Doc464	-	-
1980-015	2444286.53	1980 Feb 17 0040	Mu-3S	-	M-3S-1	0.187	ISAS	OS	-	G	Sat LEO O	ISASNews2007.1	-	-
1981-017	2444656.52	1981 Feb 21 0030	Mu-3S	-	M-3S-2	0.188	ISAS	OS	-	G	Sat LEO O	SRJ	-	-
1983-011	2445385.72	1983 Feb 20 0510	Mu-3S	-	M-3S-3	0.218	ISAS	OS	-	G	Sat LEO O	SRJ	-	-
1984-015	2445744.83	1984 Feb 14 0800	Mu-3S	-	M-3S-4	0.207	ISAS	OS90	S3P	G	Sat LEO O	SRJ	-	S3 low thrust, tailoff
1985-001	2446073.31	1985 Jan 7 1926	Mu-3S-II	-	M-3S2-1	0.601	ISAS	DS	-	G	Sat EEO OE	SRJ	-	-
1985-073	2446296.48	1985 Aug 18 2333	Mu-3S-II	-	M-3S2-2	0.596	ISAS	DS	-	G	Sat EEO OE	SRJ	-	-
1987-012	2446831.77	1987 Feb 5 0630	Mu-3S-II	-	M-3S2-3	0.420	ISAS	OS	-	G	Sat LEO O	SRJ	-	-
1989-016	2447579.48	1989 Feb 21 2330:00	Mu-3S-II	-	M-3S2-4	0.318	ISAS	OS	-	G	Sat MEO OO	ISASNews2007.1	-	-
1990-007	2447915.99	1990 Jan 24 1146:00	Mu-3S-II	-	M-3S2-5	0.722	ISAS	DS	-	G	Sat DSO OO	ISASNews2007.1	-	-
1991-062	2448498.60	1991 Aug 30 0230	Mu-3S-II	-	M-3S2-6	0.390	ISAS	OS	-	G	Sat LEO O	M3S2-6-Brochure	-	-
1993-011	2449038.60	1993 Feb 20 0220	Mu-3S-II	-	M-3S2-7	0.420	ISAS	OS	-	G	Sat LEO O	JCM	-	-
1995-U01	2449733.07	1995 Jan 15 1345	Mu-3S-II	-	M-3S2-8	0.765	ISAS	OF40	S2G*	G	Sat LEO O	WSL	-	TVC failed, marginal orbit

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-F05	2440273.89	1969 Feb 21 0918:07	N-1	11A52	-	3L	-	L-1S No. 3	11F92	-	-	NIIP-5	LC110R	-	-	30	-	-
1969-F10	2440406.35	1969 Jul 3 2018:32	N-1	11A52	-	5L/V15005	-	L-1S No. 5		-	-	NIIP-5	LC110R	-	-	0	-	-
1971-F06	2441129.47	1971 Jun 26 2315:08	N-1	11A52	-	6L/Kh15006	-	LK		-	-	NIIP-5	LC110L	-	-	2	-	-
1972-F07	2441644.76	1972 Nov 23 0611:55	N-1	11A52	-	7L/Kh15007	-	Mockup LK		-	-	NIIP-5	LC110L	-	-	40	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-F05	2440273.89	1969 Feb 21 0918:07	N-1 11A52	-	3L	8.550	RVSN	OF	S1P	G	Sat LEO O	JCM	-	Engine out
1969-F10	2440406.35	1969 Jul 3 2018:32	N-1 11A52	-	5L/V15005	8.550	RVSN	OF	S1P	G	Sat LEO O	JCM	-	Engine out, fell on pad
1971-F06	2441129.47	1971 Jun 26 2315:08	N-1 11A52	-	6L/Kh15006	9.350	RVSN	OF	S1G	G	Sat LEO O	JCM	-	Pitch over, breakup
1972-F07	2441644.76	1972 Nov 23 0611:55	N-1 11A52	-	7L/Kh15007	9.350	RVSN	OF	S1P	G	Sat LEO O	JCM	-	Engine fire

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-M21	2438928.81	1965 Jun 17 0730	NAL-16	-	HM-16-D	-	-	-	-	NIIJ	-	-	-	52?	-	-
1965-A86	2438929.82	1965 Jun 18 0743	NAL-16	-	HM-16-IT	-	-	-	-	NIIJ	-	-	-	38?	-	-
1965-A162	2439081.77	1965 Nov 17 0634	NAL-16	-	NAL-16TR	-	-	-	-	NIIJ	-	-	-	45?	-	-
1967-A43	2439490.50	1967	NAL-16	-	NAL-16TR	-	-	-	-	TNSC	T	-	-	45?	-	-
1968-S500	2440118.79	1968 Sep 19 0701	NAL-16	-	NAL-16H F1	-	-	-	-	TNSC	T	-	-	100?	-	-
1969-M02	2440251.56	1969 Jan 30 0131	NAL-16	-	NAL-16 31D	-	-	-	-	TNSC	T	-	-	50?	-	-
1969-M03	2440253.57	1969 Feb 1 0140	NAL-25	-	NAL-25 31	-	-	-	-	TNSC	T	-	-	50?	-	-
1969-S510	2440484.58	1969 Sep 20 0155	NAL-16	-	NAL-16H F2	-	-	-	-	TNSC	T	-	-	100?	-	-
1969-A156	2440484.77	1969 Sep 20 0630	NAL-7	-	NAL-7 F7	-	-	-	-	TNSC	T	-	-	20?	-	-
1970-A99	2440836.77	1970 Sep 7 0630	NAL-7	-	NAL-7 BS9	-	-	-	-	TNSC	T	-	-	20?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-M21	2438928.81	1965 Jun 17 0730	NAL-16	-	HM-16-D	0.000	STA	SS	-	STA/	Test	NASDA-WWW	ISTS7	-
1965-A86	2438929.82	1965 Jun 18 0743	NAL-16	-	HM-16-IT	0.000	STA	SS	-	STA/	Test	NASDA-WWW	ISTS7	-
1965-A162	2439081.77	1965 Nov 17 0634	NAL-16	-	NAL-16TR	0.000	STA	SS	-	STA/	Test	NASDA-WWW	ISTS7	-
1967-A43	2439490.50	1967	NAL-16	-	NAL-16TR	0.000	STA	SS	-	STA/	Test	NASDA-WWW	ISTS7	-
1968-S500	2440118.79	1968 Sep 19 0701	NAL-16	-	NAL-16H F1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	ISTS7	-
1969-M02	2440251.56	1969 Jan 30 0131	NAL-16	-	NAL-16 31D	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-M03	2440253.57	1969 Feb 1 0140	NAL-25	-	NAL-25 31	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-S510	2440484.58	1969 Sep 20 0155	NAL-16	-	NAL-16H F2	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-A156	2440484.77	1969 Sep 20 0630	NAL-7	-	NAL-7 F7	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1970-A99	2440836.77	1970 Sep 7 0630	NAL-7	-	NAL-7 BS9	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S564	2441273.80	1971 Nov 18 0704:52	Hydra Sandhawk	-	-	LRL BOX-17	-	-	AVM1	HYD	LP5	-	-	267	-	-
1973-S158	2441798.76	1973 Apr 26 0620:00	Hydra Sandhawk	-	-	LRL BOX-18	-	-	T-AGM-8	HYD	LP5	-	-	262	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S564	2441273.80	1971 Nov 18 0704:52	Hydra Sandhawk	-	-	0.000	NMC	SS	-	LRL/Seward	Test/XR Astron	FDS	LRL-ENN73-172	-
1973-S158	2441798.76	1973 Apr 26 0620:00	Hydra Sandhawk	-	-	0.000	NMC	SS	-	LRL/Seward	XR Astron	FDS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-A172	2437143.50	1960 Jul 28	NOTS EV2	-	NOTS EV-II	Caleb TV-1	TV-1	-	F-4D-747	NOTS	RW03/21?	WTR	LP7	20	-	-
1960-A249	2437231.50	1960 Oct 24	NOTS EV2	-	NOTS EV-II	Caleb TV-2	TV-2	-	F-4D-747	NOTS	RW03/21?	WTR	LP7	20	-	-
1961-A214	2437573.50	1961 Oct 1	NOTS EV2	-	SIP	-	EARLY SPRING 1	-	-	SNI	-	-	-	20?	-	-
1961-A216	2437578.30	1961 Oct 5 1910	NOTS EV2	-	NC17.116	Caleb	HI-HOE 1	-	F4H-389?	NOTS	RW03/21?	WTR	LP7	10	-	-
1962-A272	2437664.50	1962?	GFV	1	GFV	Guided Flight Vehicle	-	-	-	SNI	-	-	-	1?	-	-
1962-A37	2437750.29	1962 Mar 26 1903	NOTS EV2	-	NC17.121	Caleb	HI-HOE 2	-	F4H-389?	NOTS	RW03/21?	WTR	LP7	21	-	-
1962-A69	2437789.50	1962 May 5	GFV	2	GFV	Guided Flight Vehicle	-	-	-	SNI	-	-	-	20?	-	-
1962-S262	2437871.15	1962 Jul 25 1541	NOTS EV2	-	NC17.117	Caleb	HI-HOE 3	-	F4H-389	NOTS	RW03/21?	WTR	LP7	1166	-	-
1962-S676	2437999.08	1962 Nov 30 1400?	GFV	2	GFV	-	-	-	-	SNI	-	-	-	320	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-A172	2437143.50	1960 Jul 28	NOTS EV2	-	NOTS EV-II	0.000	NOTS	AS	-	NOTS/	Test	NOTS	-	-
1960-A249	2437231.50	1960 Oct 24	NOTS EV2	-	NOTS EV-II	0.000	NOTS	AF	S2	NOTS/	Test	NOTS	-	-
1961-A214	2437573.50	1961 Oct 1	NOTS EV2	-	SIP	0.000	NOTS	MF	U	NOTS/	Test	SFLT38-243	-	-
1961-A216	2437578.30	1961 Oct 5 1910	NOTS EV2	-	NC17.116	0.000	NOTS	SF	U	NOTS/NRL/Hoffman,Holmes	Test/Aeron	WDCRF	-	-
1962-A272	2437664.50	1962?	GFV	1	GFV	0.000	NOTS	MF	U	NOTS/	Test	NOTS4	-	-
1962-A37	2437750.29	1962 Mar 26 1903	NOTS EV2	-	NC17.121	0.000	NOTS	SF	U	NOTS/NRL/Hoffman,Holmes	Test/Aeron	WDCRF	-	-
1962-A69	2437789.50	1962 May 5	GFV	2	GFV	0.000	NOTS	MF	U	NOTS/	Test	SFLT38-243	-	-
1962-S262	2437871.15	1962 Jul 25 1541	NOTS EV2	-	NC17.117	0.000	NOTS	SS	-	NOTS/NRL/Hoffman,Holmes	Test/Aeron	WDCRF	-	-
1962-S676	2437999.08	1962 Nov 30 1400?	GFV	2	GFV	0.000	NOTS	MS	-	NOTS/	Test	Rocketeer621221-7	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1998-S70	2451162.50	1998 Dec 15	Sounding Rocket	-	1	Test flight	TK-2 Mod?	-	-	JP	-	-	-	250?	-	-
2001-A02	2452207.17	2001 Oct 24 1600	Sounding Rocket	-	2	TMA	-	-	-	JP	-	-	-	2?	-	-
2003-S53	2452998.14	2003 Dec 24 1525	Sounding Rocket	-	3	TMA	-	-	-	JP	-	-	-	265	-	-
2004-S70	2453354.10	2004 Dec 14 1430	Sounding Rocket	-	4	Space science	-	-	-	JP?	-	-	-	265	-	-
2006-S01	2453753.99	2006 Jan 18 1148	Sounding Rocket	-	5	Space science	-	-	-	JP	-	-	-	282	-	-
2007-S73	2454356.74	2007 Sep 13 0550	Sounding Rocket	-	6	Materials/Recovery	-	-	-	JP?	-	-	-	280	-	-
2010-S33	2455321.99	2010 May 5 1150	Sounding Rocket	-	7	-	-	-	-	JP	-	-	-	287	-	-
2013-S109	2456448.79	2013 Jun 5 0700	Sounding Rocket	-	8	H2O2 test/Recovery	-	-	-	JP	-	-	-	279	-	-
2014-S61	2456743.07	2014 Mar 26 1334	Sounding Rocket	-	9	-	-	-	-	JP	-	-	-	286	-	-
2014-S62	2456937.63	2014 Oct 7 0310	Sounding Rocket	-	10	-	-	-	-	JP	-	-	-	286	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1998-S70	2451162.50	1998 Dec 15	Sounding Rocket	-	1	0.000	NSPO	SS	-	NSPO/	Test	NSPO-WWW	-	-
2001-A02	2452207.17	2001 Oct 24 1600	Sounding Rocket	-	2	0.000	NSPO	SF	U	NCU/CLEM/Chu,Larsen	Aeron	NSPO-WWW	-	-
2003-S53	2452998.14	2003 Dec 24 1525	Sounding Rocket	-	3	0.000	NSPO	SS	-	NCU/CLEM/Chu,Larsen	Aeron	NSPO-WWW	-	-
2004-S70	2453354.10	2004 Dec 14 1430	Sounding Rocket	-	4	0.000	NSPO	SS	-	NCU/Hao	Ionos/Aeron	NSPO-WWW	-	-
2006-S01	2453753.99	2006 Jan 18 1148	Sounding Rocket	-	5	0.000	NSPO	SS	-	NCU/	Ionos/Aeron	NSPO-WWW	-	-
2007-S73	2454356.74	2007 Sep 13 0550	Sounding Rocket	-	6	0.000	NSPO	SS	-	NCU/	Micrograv/Aeron	NSPO-WWW	-	-
2010-S33	2455321.99	2010 May 5 1150	Sounding Rocket	-	7	0.000	NSPO	SS	-	NCU/Chu	Ionos	NSPO-WWW	-	-
2013-S109	2456448.79	2013 Jun 5 0700	Sounding Rocket	-	8	0.000	NSPO	SS	-	NCU/	Tech	NSPO-WWW	-	-
2014-S61	2456743.07	2014 Mar 26 1334	Sounding Rocket	-	9	0.000	NSPO	SS	-	NCU/	Ionos	NSPO-WWW	-	-
2014-S62	2456937.63	2014 Oct 7 0310	Sounding Rocket	-	10	0.000	NSPO	SS	-	NCU/	Ionos	NSPO-WWW	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A108	2435783.50	1956 Nov 6	Navaho II SM-64	-	03	G-26 No. 1	-	-	-	CC	LC9	-	-	2?	-	-
1957-A21	2435919.50	1957 Mar 22	Navaho II SM-64	-	06	G-26 No. 2	-	-	-	CC	LC9	-	-	9	-	-
1957-A29	2435953.50	1957 Apr 25	Navaho II SM-64	-	07	G-26 No. 5	-	-	-	CC	LC9	-	-	0	-	-
1957-A56	2436016.25	1957 Jun 26 1800	Navaho II SM-64	-	08	G-26 No. 3	-	-	-	CC	LC9	-	-	12	-	-
1957-A77	2436063.36	1957 Aug 12 2045	Navaho II SM-64	-	09	G-26 No. 4	-	-	-	CC	LC9	-	-	25	-	-
1957-A99	2436100.39	1957 Sep 18 2115	Navaho II SM-64	-	10	G-26 No. 6	-	-	-	CC	LC9	-	-	23	-	-
1957-A128	2436156.23	1957 Nov 13 1728	Navaho II SM-64	-	11	G-26 No. 7	-	-	-	CC	LC9	-	-	20	-	-
1958-A02	2436214.32	1958 Jan 10 1938	Navaho II SM-64	-	13	G-26 No. 9	-	-	-	CC	LC9	-	-	22	-	-
1958-A10	2436260.22	1958 Feb 25 1722	Navaho II SM-64	-	12	G-26 No. 8	-	-	-	CC	LC9	-	-	2?	-	-
1958-A113	2436457.50	1958 Sep 11	Navaho II SM-64	-	04	G-26 No. 15/RISE 1	-	-	-	CC	LC9	-	-	25?	-	-
1958-A145	2436526.38	1958 Nov 18 2103	Navaho II SM-64	-	14	G-26 No. 14/RISE 2	-	-	-	CC	LC9	-	-	23	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A108	2435783.50	1956 Nov 6	Navaho II SM-64	-	03	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1957-A21	2435919.50	1957 Mar 22	Navaho II SM-64	-	06	0.000	WADD	MF	U	-	Test	MT60-2544	Powell	-
1957-A29	2435953.50	1957 Apr 25	Navaho II SM-64	-	07	0.000	WADD	MF	U	-	Test	MT60-2544	-	-
1957-A56	2436016.25	1957 Jun 26 1800	Navaho II SM-64	-	08	0.000	WADD	MF	U	-	Test	PalmBeachPost570627	MT60-2544	-
1957-A77	2436063.36	1957 Aug 12 2045	Navaho II SM-64	-	09	0.000	WADD	MS	-	-	Test [Not LC10]	Ulrich	MT60-2544	-
1957-A99	2436100.39	1957 Sep 18 2115	Navaho II SM-64	-	10	0.000	WADD	MS	-	-	Test	BillingsGaz570919	MT60-2544	-
1957-A128	2436156.23	1957 Nov 13 1728	Navaho II SM-64	-	11	0.000	WADD	MS	-	-	Test	UPI	MT60-2544	-
1958-A02	2436214.32	1958 Jan 10 1938	Navaho II SM-64	-	13	0.000	WADD	MS	-	-	Test	AP	Powell/MT60-2544	-
1958-A10	2436260.22	1958 Feb 25 1722	Navaho II SM-64	-	12	0.000	WADD	MF	U	-	Test	UPI	MT60-2544	-
1958-A113	2436457.50	1958 Sep 11	Navaho II SM-64	-	04	0.000	WADD	MS	-	-	Test	MT60-2544	-	-
1958-A145	2436526.38	1958 Nov 18 2103	Navaho II SM-64	-	14	0.000	WADD	MF	U	-	Test	AP	MT60-2544	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2025-011	2460691.79	2025 Jan 16 0703	New Glenn	-	NG1	Blue Ring Pathfinder	DS-1	-	-	CC	LC36	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2025-011	2460691.79	2025 Jan 16 0703	New Glenn	-	NG1	10.000	BLOR	OS	-	C	Sat MEO	Blue	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-S29	2457142.12	2015 Apr 29 1500?	New Shepard	-	PM4-1 F1	New Shepard M1	New Shepard CC1.3?	-	-	WTEX	-	-	-	93	-	-
2015-S76	2457350.22	2015 Nov 23 1721	New Shepard	-	PM4-2 F1	New Shepard M2	New Shepard CC1.3?	-	-	WTEX	-	-	-	101	-	-
2016-S02	2457410.04	2016 Jan 22 1300?	New Shepard	-	PM4-2 F2	New Shepard M3	New Shepard CC1.3	-	-	WTEX	-	-	-	101	-	-
2016-S23	2457481.14	2016 Apr 2 1518	New Shepard	-	PM4-2 F3	New Shepard M4	New Shepard CC1.3	-	-	WTEX	-	-	-	101	-	-
2016-S37	2457559.11	2016 Jun 19 1436	New Shepard	-	PM4-2 F4	New Shepard M5	New Shepard CC1.3	-	-	WTEX	-	-	-	101	-	-
2016-S60	2457667.15	2016 Oct 5 1536	New Shepard	-	PM4-2 F5	New Shepard M6	New Shepard CC1.3 Abort	-	-	WTEX	-	-	-	94	-	-
2017-S104	2458100.21	2017 Dec 12 1659	New Shepard	-	PM4-3 F1	New Shepard M7	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	99	-	-
2018-S24	2458238.21	2018 Apr 29 1706	New Shepard	-	PM4-3 F2	New Shepard M8	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	107	-	-
2018-S41	2458318.13	2018 Jul 18 1511	New Shepard	-	PM4-3 F3	New Shepard M9	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	119	-	-
2019-S03	2458507.13	2019 Jan 23 1505	New Shepard	-	PM4-3 F4	New Shepard M10	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	107	-	-
2019-S18	2458606.06	2019 May 2 1332	New Shepard	-	PM4-3 F5	New Shepard M11	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	105	-	-
2019-S79	2458829.25	2019 Dec 11 1753	New Shepard	-	PM4-3 F6	New Shepard M12	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	105	-	-
2020-S35	2459136.07	2020 Oct 13 1336	New Shepard	-	PM4-3 F7	New Shepard NS13	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	106	-	-
2021-S01	2459229.22	2021 Jan 14 1719	New Shepard	-	PM4-4 F1	New Shepard NS14	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	106	-	-
2021-S21	2459319.20	2021 Apr 14 1651	New Shepard	-	PM4-4 F2	New Shepard NS15	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	106	-	-
2021-S45	2459416.05	2021 Jul 20 1311:00?	New Shepard	-	PM4-4 F3	New Shepard NS16	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2021-S55	2459453.11	2021 Aug 26 1431:20	New Shepard	-	PM4-3 F8	New Shepard NS17	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	106	-	-
2021-S69	2459501.12	2021 Oct 13 1449	New Shepard	-	PM4-4 F4	New Shepard NS18	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2021-S89	2459560.13	2021 Dec 11 1500:49	New Shepard	-	PM4-4 F5	New Shepard NS19	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2022-S22	2459670.08	2022 Mar 31 1358:02	New Shepard	-	PM4-4 F6	New Shepard NS20	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2022-S37	2459735.06	2022 Jun 4 1325:09	New Shepard	-	PM4-4 F7	New Shepard NS21	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2022-S77	2459796.08	2022 Aug 4 1356:14	New Shepard	-	PM4-4 F8	New Shepard NS22	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2022-A20	2459835.10	2022 Sep 12 1427	New Shepard	-	PM4-3 F9	New Shepard NS23	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	11	-	-
2023-S72	2460298.20	2023 Dec 19 1642:35	New Shepard	-	PM4-4 F9	New Shepard NS24	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	107	-	-
2024-S34	2460450.11	2024 May 19 1435:18	New Shepard	-	PM4-4 F10	New Shepard NS25	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2024-S49	2460552.05	2024 Aug 29 1307:11	New Shepard	-	PM4-4 F11	New Shepard NS26	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2024-S64	2460607.14	2024 Oct 23 1525:38?	New Shepard	-	PM4-5 F1	New Shepard NS27	New Shepard CC2.0-3	RSS Karman Line	-	WTEX	-	-	-	101?	-	-
2024-S75	2460637.15	2024 Nov 22 1530:09	New Shepard	-	PM4-5 F2	New Shepard NS28	New Shepard CC2.0-3	RSS Karman Line	-	WTEX	-	-	-	107	-	-
2025-S03	2460711.17	2025 Feb 4 1600:07	New Shepard	-	PM4-5 F3	New Shepard NS29	New Shepard CC2.0-1	RSS H.G. Wells	-	WTEX	-	-	-	105	-	-
2025-S08	2460732.16	2025 Feb 25 1549:18	New Shepard	-	PM4-4 F12	New Shepard NS30	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	107	-	-
2025-S16	2460780.06	2025 Apr 14 1330:07	New Shepard	-	PM4-5 F4	New Shepard NS31	New Shepard CC2.0-3	RSS Karman Line	-	WTEX	-	-	-	107	-	-
2025-S24	2460827.07	2025 May 31 1339:18	New Shepard	-	PM4-4 F13	New Shepard NS32	New Shepard CC2.0-2	RSS First Step	-	WTEX	-	-	-	105	-	-
2025-S29	2460856.11	2025 Jun 29 1440:03	New Shepard	-	PM4-5 F5	New Shepard NS33	New Shepard CC2.0-3	RSS Karman Line	-	WTEX	-	-	-	107	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-S29	2457142.12	2015 Apr 29 1500?	New Shepard	-	PM4-1 F1	0.000	BLOR	SS	-	BLOR/	Test	Wire	-	-
2015-S76	2457350.22	2015 Nov 23 1721	New Shepard	-	PM4-2 F1	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2016-S02	2457410.04	2016 Jan 22 1300?	New Shepard	-	PM4-2 F2	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2016-S23	2457481.14	2016 Apr 2 1518	New Shepard	-	PM4-2 F3	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2016-S37	2457559.11	2016 Jun 19 1436	New Shepard	-	PM4-2 F4	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2016-S60	2457667.15	2016 Oct 5 1536	New Shepard	-	PM4-2 F5	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2017-S104	2458100.21	2017 Dec 12 1659	New Shepard	-	PM4-3 F1	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2018-S24	2458238.21	2018 Apr 29 1706	New Shepard	-	PM4-3 F2	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2018-S41	2458318.13	2018 Jul 18 1511	New Shepard	-	PM4-3 F3	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2019-S03	2458507.13	2019 Jan 23 1505	New Shepard	-	PM4-3 F4	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2019-S18	2458606.06	2019 May 2 1332	New Shepard	-	PM4-3 F5	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2019-S79	2458829.25	2019 Dec 11 1753	New Shepard	-	PM4-3 F6	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2020-S35	2459136.07	2020 Oct 13 1336	New Shepard	-	PM4-3 F7	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2021-S01	2459229.22	2021 Jan 14 1719	New Shepard	-	PM4-4 F1	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2021-S21	2459319.20	2021 Apr 14 1651	New Shepard	-	PM4-4 F2	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2021-S45	2459416.05	2021 Jul 20 1311:00?	New Shepard	-	PM4-4 F3	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2021-S55	2459453.11	2021 Aug 26 1431:20	New Shepard	-	PM4-3 F8	0.000	BLOR	SS	-	BLOR/	Science Flight	nasaspaceflight.com	-	-
2021-S69	2459501.12	2021 Oct 13 1449	New Shepard	-	PM4-4 F4	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2021-S89	2459560.13	2021 Dec 11 1500:49	New Shepard	-	PM4-4 F5	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2022-S22	2459670.08	2022 Mar 31 1358:02	New Shepard	-	PM4-4 F6	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2022-S37	2459735.06	2022 Jun 4 1325:09	New Shepard	-	PM4-4 F7	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2022-S77	2459796.08	2022 Aug 4 1356:14	New Shepard	-	PM4-4 F8	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2022-A20	2459835.10	2022 Sep 12 1427	New Shepard	-	PM4-3 F9	0.000	BLOR	SF	S1P	BLOR/	Science Flight	nasaspaceflight.com	-	Abort, CC recovered
2023-S72	2460298.20	2023 Dec 19 1642:35	New Shepard	-	PM4-4 F9	0.000	BLOR	SS	-	BLOR/	Science Flight	nasaspaceflight.com	-	-
2024-S34	2460450.11	2024 May 19 1435:18	New Shepard	-	PM4-4 F10	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2024-S49	2460552.05	2024 Aug 29 1307:11	New Shepard	-	PM4-4 F11	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2024-S64	2460607.14	2024 Oct 23 1525:38?	New Shepard	-	PM4-5 F1	0.000	BLOR	SS	-	BLOR/	Test	nasaspaceflight.com	-	-
2024-S75	2460637.15	2024 Nov 22 1530:09	New Shepard	-	PM4-5 F2	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2025-S03	2460711.17	2025 Feb 4 1600:07	New Shepard	-	PM4-5 F3	0.000	BLOR	SS	-	BLOR/	Science Flight	nasaspaceflight.com	-	-
2025-S08	2460732.16	2025 Feb 25 1549:18	New Shepard	-	PM4-4 F12	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2025-S16	2460780.06	2025 Apr 14 1330:07	New Shepard	-	PM4-5 F4	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2025-S24	2460827.07	2025 May 31 1339:18	New Shepard	-	PM4-4 F13	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-
2025-S29	2460856.11	2025 Jun 29 1440:03	New Shepard	-	PM4-5 F5	0.000	BLOR	SS	-	BLOR/	Tourist Flight	nasaspaceflight.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1946-A12	2432088.22	1946 Sep 24 1715	Nike-46	-	46-A	Dummy Sustainer	-	-	-	WS	LC33	-	-	9	-	-
1946-A13	2432091.21	1946 Sep 27 1700	Nike-46	-	46-B	Dummy Sustainer	-	-	-	WS	LC33	-	-	13	-	-
1946-A14	2432095.23	1946 Oct 1 1729	Nike-46	-	46-C	Dummy Sustainer	-	-	-	WS	LC33	-	-	13	-	-
1946-A15	2432102.29	1946 Oct 8 1853	Nike-46	-	46-2	Nike-46 1R	-	-	-	WS	LC33	-	-	42	-	-
1946-A16	2432105.20	1946 Oct 11 1650	Nike-46	-	46-3	Nike-46 2R	-	-	-	WS	LC33	-	-	33	-	-
1946-A17	2432109.39	1946 Oct 15 2123	Nike-46	-	46-5	Nike-46 3R	-	-	-	WS	LC33	-	-	18	-	-
1946-A18	2432112.24	1946 Oct 18 1750	Nike-46	-	46-1	Nike-46 4R	-	-	-	WS	LC33	-	-	11	-	-
1946-A19	2432137.40	1946 Nov 12 2133	Nike-46	-	46-6	Nike-46 5R	-	-	-	WS	LC33	-	-	10	-	-
1946-A20	2432140.40	1946 Nov 15 2134	Nike-46	-	46-7	Nike-46 6R	-	-	-	WS	LC33	-	-	0	-	-
1947-A01	2432196.44	1947 Jan 10 2230	Nike-46	-	46-8	Nike-46 7R	-	-	-	WS	LC33	-	-	0	-	-
1947-A02	2432210.46	1947 Jan 24 2307	Nike-46	-	46-9	Nike-46 8R	-	-	-	WS	LC33	-	-	31	-	-
1947-A03	2432214.38	1947 Jan 28 2105	Nike-46	-	46-4	Nike-46 9R	-	-	-	WS	LC33	-	-	0	-	-
1947-A17	2432450.50	1947 Sep 22	Nike-47	-	47-E	Nike-47 Round D	-	-	-	WS	LC33	-	-	10	-	-
1947-A19	2432454.50	1947 Sep 26	Nike-47	-	47-F	Nike-47 Round E	-	-	-	WS	LC33	-	-	10	-	-
1947-A21	2432465.50	1947 Oct 7	Nike-47	-	47-G	Nike-47 Round F	-	-	-	WS	LC33	-	-	10	-	-
1947-A22	2432474.50	1947 Oct 16	Nike-47	-	47-H	Nike-47 Round G	-	-	-	WS	LC33	-	-	10	-	-
1947-A23	2432481.50	1947 Oct 23	Nike-47	-	47-I	Nike-47 Round H	-	-	-	WS	LC33	-	-	10	-	-
1947-A25	2432486.50	1947 Oct 28	Nike-47	-	47-12	Nike-47 10R	-	-	-	WS	LC33	-	-	35?	-	-
1947-A26	2432488.50	1947 Oct 30	Nike-47	-	47-13	Nike-47 11R	-	-	-	WS	LC33	-	-	10?	-	-
1947-A35	2432528.50	1947 Dec 9	Nike-47	-	47-15	Nike-47 12R	-	-	-	WS	LC33	-	-	35?	-	-
1947-A34	2432528.50	1947 Dec 9	Nike-47	-	47-16	Nike-47 13R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A05	2432718.44	1948 Jun 15 2230	Nike-481	-	47-J	Nike 48-1 I dummy	-	-	-	WS	LC33	-	-	10?	-	-
1948-A07	2432727.19	1948 Jun 24 1636	Nike-481	-	47-K	Nike 48-1 K dummy	-	-	-	WS	LC33	-	-	10?	-	-
1948-A11	2432734.42	1948 Jul 1 2200	Nike-481	-	47-M	Nike 48-1 L dummy	-	-	-	WS	LC33	-	-	10?	-	-
1948-A16	2432749.24	1948 Jul 16 1740	Nike-481	-	48-20	Nike 48-1 18R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A17	2432762.26	1948 Jul 29 1810	Nike-481	-	48-21	Nike 48-1 19R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A18	2432763.47	1948 Jul 30 2310	Nike-481	-	48-22	Nike 48-1 20R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A20	2432781.38	1948 Aug 17 2100	Nike-481	-	48-23	Nike 48-1 21R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A26	2432804.45	1948 Sep 9 2255	Nike-481	-	48-24	Nike 48-1 22R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A27	2432809.23	1948 Sep 14 1736	Nike-481	-	47-L	Nike 48-1 Q dummy	-	-	-	WS	LC33	-	-	10?	-	-
1948-A28	2432809.50	1948 Sep 15 0000	Nike-481	-	48-26	Nike 48-1 23R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A29	2432812.19	1948 Sep 17 1632	Nike-481	-	48-25	Nike 48-1 24R	-	-	-	WS	LC33	-	-	35	-	-
1948-A31	2432816.43	1948 Sep 21 2215	Nike-481	-	48-29	Nike 48-1 25R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A36	2432825.43	1948 Sep 30 2215	Nike-481	-	48-28	Nike 48-1 26R	-	-	-	WS	LC33	-	-	15	-	-
1948-A37	2432840.26	1948 Oct 15 1821	Nike-481	-	48-30	Nike 48-1 27R	-	-	-	WS	LC33	-	-	13	-	-
1948-A39	2432847.20	1948 Oct 22 1644	Nike-481	-	48-33	Nike 48-1 28R	-	-	-	WS	LC33	-	-	22	-	-
1948-A42	2432865.21	1948 Nov 9 1703	Nike-481	-	48-27	Nike 48-1 29R	-	-	-	WS	LC33	-	-	18	-	-
1948-A43	2432868.21	1948 Nov 12 1700	Nike-481	-	48-31	Nike 48-1 30R	-	-	-	WS	LC33	-	-	20	-	-
1949-A17	2433050.23	1949 May 13 1735	Nike-481	-	48-19	Nike 48-1 31R	-	-	-	WS	LC33	-	-	20	-	-
1949-A18	2433054.23	1949 May 17 1733	Nike-481	-	48-32	Nike 48-1 32R	-	-	-	WS	LC33	-	-	11	-	-
1949-A19	2433057.23	1949 May 20 1736	Nike-481	-	48-34	Nike 48-1 33R	-	-	-	WS	LC33	-	-	20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1946-A12	2432088.22	1946 Sep 24 1715	Nike-46	-	46-A	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1946-A13	2432091.21	1946 Sep 27 1700	Nike-46	-	46-B	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1946-A14	2432095.23	1946 Oct 1 1729	Nike-46	-	46-C	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1946-A15	2432102.29	1946 Oct 8 1853	Nike-46	-	46-2	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1946-A16	2432105.20	1946 Oct 11 1650	Nike-46	-	46-3	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1946-A17	2432109.39	1946 Oct 15 2123	Nike-46	-	46-5	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1946-A18	2432112.24	1946 Oct 18 1750	Nike-46	-	46-1	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1946-A19	2432137.40	1946 Nov 12 2133	Nike-46	-	46-6	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1946-A20	2432140.40	1946 Nov 15 2134	Nike-46	-	46-7	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1947-A01	2432196.44	1947 Jan 10 2230	Nike-46	-	46-8	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1947-A02	2432210.46	1947 Jan 24 2307	Nike-46	-	46-9	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A03	2432214.38	1947 Jan 28 2105	Nike-46	-	46-4	0.000	ORD	AF	U	-	Test	NikeAjaxHist	-	-
1947-A17	2432450.50	1947 Sep 22	Nike-47	-	47-E	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A19	2432454.50	1947 Sep 26	Nike-47	-	47-F	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A21	2432465.50	1947 Oct 7	Nike-47	-	47-G	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A22	2432474.50	1947 Oct 16	Nike-47	-	47-H	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A23	2432481.50	1947 Oct 23	Nike-47	-	47-I	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A25	2432486.50	1947 Oct 28	Nike-47	-	47-12	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A26	2432488.50	1947 Oct 30	Nike-47	-	47-13	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A35	2432528.50	1947 Dec 9	Nike-47	-	47-15	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1947-A34	2432528.50	1947 Dec 9	Nike-47	-	47-16	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A05	2432718.44	1948 Jun 15 2230	Nike-481	-	47-J	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A07	2432727.19	1948 Jun 24 1636	Nike-481	-	47-K	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A11	2432734.42	1948 Jul 1 2200	Nike-481	-	47-M	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A16	2432749.24	1948 Jul 16 1740	Nike-481	-	48-20	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A17	2432762.26	1948 Jul 29 1810	Nike-481	-	48-21	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A18	2432763.47	1948 Jul 30 2310	Nike-481	-	48-22	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A20	2432781.38	1948 Aug 17 2100	Nike-481	-	48-23	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A26	2432804.45	1948 Sep 9 2255	Nike-481	-	48-24	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A27	2432809.23	1948 Sep 14 1736	Nike-481	-	47-L	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A28	2432809.50	1948 Sep 15 0000	Nike-481	-	48-26	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A29	2432812.19	1948 Sep 17 1632	Nike-481	-	48-25	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A31	2432816.43	1948 Sep 21 2215	Nike-481	-	48-29	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A36	2432825.43	1948 Sep 30 2215	Nike-481	-	48-28	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A37	2432840.26	1948 Oct 15 1821	Nike-481	-	48-30	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A39	2432847.20	1948 Oct 22 1644	Nike-481	-	48-33	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A42	2432865.21	1948 Nov 9 1703	Nike-481	-	48-27	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1948-A43	2432868.21	1948 Nov 12 1700	Nike-481	-	48-31	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1949-A17	2433050.23	1949 May 13 1735	Nike-481	-	48-19	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1949-A18	2433054.23	1949 May 17 1733	Nike-481	-	48-32	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-
1949-A19	2433057.23	1949 May 20 1736	Nike-481	-	48-34	0.000	ORD	AS	-	-	Test	NikeAjaxHist	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1948-A06	2432720.45	1948 Jun 17 2244	Nike-480	-	47-N	Nike 48-0 J dummy	-	-	-	WS	LC33	-	-	1	-	-
1948-A08	2432732.19	1948 Jun 29 1630	Nike-480	-	47-17	Nike 48-0 14R	-	-	-	WS	LC33	-	-	29	-	-
1948-A10	2432734.19	1948 Jul 1 1639	Nike-480	-	47-18	Nike 48-0 15R	-	-	-	WS	LC33	-	-	10?	-	-
1948-A13	2432741.19	1948 Jul 8 1630	Nike-480	-	47-11	Nike 48-0 16R	-	-	-	WS	LC33	-	-	27	-	-
1948-A14	2432746.19	1948 Jul 13 1631	Nike-480	-	47-14	Nike 48-0 17R	-	-	-	WS	LC33	-	-	7	-	-
1948-A19	2432774.19	1948 Aug 10 1635	Nike-482	-	482-P	Nike 48-2 M dummy	-	-	-	WS	LC33	-	-	11	-	-
1948-A22	2432783.40	1948 Aug 19 2130	Nike-482	-	482-Q	Nike 48-2 N dummy	-	-	-	WS	LC33	-	-	11	-	-
1948-A24	2432784.20	1948 Aug 20 1645	Nike-482	-	482-R	Nike 48-2 P dummy	-	-	-	WS	LC33	-	-	11	-	-
1948-A34	2432822.47	1948 Sep 27 2315	Nike-482	-	482-S	Nike 48-2 R dummy	-	-	-	WS	LC33	-	-	11	-	-
1950-A65	2433304.50	1950 Jan 23	Nike-484	-	484-35	Nike 484 34R	-	-	-	WS	LC33	-	-	10?	-	-
1950-A03	2433312.50	1950 Jan 31	Nike-484	-	484-38	Nike 484 35R	-	-	-	WS	LC33	-	-	10?	-	-
1950-A04	2433314.50	1950 Feb 2	Nike-484	-	484-37	Nike 484 36R	-	-	-	WS	-	-	-	10?	-	-
1950-A05	2433321.50	1950 Feb 9	Nike-484	-	484-39	Nike 484 37R	-	-	-	WS	-	-	-	10?	-	-
1950-A06	2433326.50	1950 Feb 14	Nike-484	-	484-40	Nike 484 38R	-	-	-	WS	-	-	-	10?	-	-
1950-A08	2433335.50	1950 Feb 23	Nike-484	-	484-41	Nike 484 39R	-	-	-	WS	-	-	-	10?	-	-
1950-A09	2433342.50	1950 Mar 2	Nike-484	-	484-42	Nike 484 40R	-	-	-	WS	-	-	-	10?	-	-
1950-A10	2433354.50	1950 Mar 14	Nike-484	-	484-43	Nike 484 41R	-	-	-	WS	-	-	-	10?	-	-
1950-A12	2433361.50	1950 Mar 21	Nike-484	-	484-45	Nike 484 42R	-	-	-	WS	-	-	-	10?	-	-
1950-A13	2433363.50	1950 Mar 23	Nike-484	-	484-44	Nike 484 43R	-	-	-	WS	-	-	-	10?	-	-
1950-A15	2433368.50	1950 Mar 28	Nike-484	-	484-47	Nike 484 44R	-	-	-	WS	-	-	-	10?	-	-
1950-A16	2433371.50	1950 Mar 31	Nike-484	-	484-46	Nike 484 45R	-	-	-	WS	-	-	-	10?	-	-
1950-A17	2433378.50	1950 Apr 7	Nike-484	-	484-48	Nike 484 46R	-	-	-	WS	-	-	-	10?	-	-
1950-A18	2433382.50	1950 Apr 11	Nike-484	-	484-36	Nike 484 47R	-	-	-	WS	-	-	-	10?	-	-
1950-A19	2433385.50	1950 Apr 14	Nike-484	-	484-49	Nike 484 48R	-	-	-	WS	-	-	-	10?	-	-
1950-A20	2433391.50	1950 Apr 20	Nike-484	-	484-50	Nike 484 49R	-	-	-	WS	-	-	-	10?	-	-
1950-A42	2433571.50	1950 Oct 17	Nike X201 Ajax	-	490-57	Nike 490A 50R	-	-	-	WS	-	-	-	10?	-	-
1950-A43	2433578.50	1950 Oct 24	Nike X201 Ajax	-	490-59	Nike 490A 51R	-	-	-	WS	-	-	-	10?	-	-
1950-A47	2433581.50	1950 Oct 27	Nike X201 Ajax	-	490-60	Nike 490A 52R	-	-	-	WS	-	-	-	10?	-	-
1950-A49	2433587.50	1950 Nov 02	Nike X201 Ajax	-	490-61	Nike 490A 53R	-	-	-	WS	-	-	-	10?	-	-
1950-A50	2433592.50	1950 Nov 07	Nike X201 Ajax	-	490-58	Nike 490A 54R	-	-	-	WS	-	-	-	10?	-	-
1950-A54	2433601.50	1950 Nov 16	Nike X201 Ajax	-	490-67	Nike 490A 55R	-	-	-	WS	-	-	-	10?	-	-
1950-A55	2433605.50	1950 Nov 20	Nike X201 Ajax	-	490-62	Nike 490A 56R	-	-	-	WS	-	-	-	10?	-	-
1950-A58	2433619.50	1950 Dec 04	Nike X201 Ajax	-	490-69	Nike 490A 57R	-	-	-	WS	-	-	-	10?	-	-
1950-A60	2433622.50	1950 Dec 07	Nike X201 Ajax	-	490-63	Nike 490A 58R	-	-	-	WS	-	-	-	10?	-	-
1950-A61	2433626.50	1950 Dec 11	Nike X201 Ajax	-	490-64	Nike 490A 59R	-	-	-	WS	-	-	-	10?	-	-
1951-A11	2433748.50	1951 Apr 12	Nike X201 Ajax	-	490-65	Nike 490A 60R	-	-	-	WS	-	-	-	10?	-	-
1951-A19	2433776.50	1951 May 10	Nike X201 Ajax	-	490-66	Nike 490A 61R	-	-	-	WS	-	-	-	10?	-	-
1951-A27	2433804.50	1951 Jun 07	Nike X201 Ajax	-	490-70	Nike 490A 62R	-	-	-	WS	-	-	-	10?	-	-
1951-A30	2433812.50	1951 Jun 15	Nike X201 Ajax	-	490-69	Nike 490A 63R	-	-	-	WS	-	-	-	10?	-	-
1951-A35	2433825.50	1951 Jun 28	Nike X201 Ajax	-	490-71	Nike 490A 64R	-	-	-	WS	-	-	-	10?	-	-
1951-A41	2433841.50	1951 Jul 14	Nike X201 Ajax	-	490-72	Nike 490A 65R	-	-	-	WS	-	-	-	10?	-	-
1951-A71	2433935.50	1951 Oct 16	Nike X201 Ajax	-	490B	Nike 490B Elec Test	-	-	-	WS	-	-	-	10?	-	-
1951-A82	2433965.50	1951 Nov 15	Nike X201 Ajax	-	490B	System Test 67R	-	-	-	WS	-	-	-	10?	-	-
1951-A84	2433966.50	1951 Nov 16	Nike X201 Ajax	-	490B	System Test 68R	-	-	-	WS	-	-	-	10?	-	-
1951-A85	2433977.50	1951 Nov 27	Nike X201 Ajax	-	490B	System Test 69R	-	-	-	WS	-	-	-	10?	-	-
1951-A89	2433984.50	1951 Dec 04	Nike X201 Ajax	-	490B	System Test 70R	-	-	-	WS	-	-	-	10?	-	-
1951-A93	2433991.50	1951 Dec 11	Nike X201 Ajax	-	490B	System Test 71R	-	-	-	WS	-	-	-	10?	-	-
1951-A94	2433991.50	1951 Dec 11	Nike X201 Ajax	-	490B	System Test 72R	-	-	-	WS	-	-	-	10?	-	-
1951-A99	2433998.50	1951 Dec 18	Nike X201 Ajax	-	490B	System Test 73R	-	-	-	WS	-	-	-	10?	-	-
1952-A07	2434033.50	1952 Jan 22	Nike X201 Ajax	-	490B	System Test 74R	-	-	-	WS	-	-	-	10?	-	-
1952-A18	2434040.50	1952 Jan 29	Nike X201 Ajax	-	490B	System Test 75R	-	-	-	WS	-	-	-	10?	-	-
1952-A17	2434040.50	1952 Jan 29	Nike X201 Ajax	-	490B	System Test 76R	-	-	-	WS	-	-	-	10?	-	-
1952-A22	2434047.50	1952 Feb 05	Nike X201 Ajax	-	490B	System Test 77R	-	-	-	WS	-	-	-	10?	-	-
1952-A23	2434049.50	1952 Feb 07	Nike X201 Ajax	-	490B	System Test 78R	-	-	-	WS	-	-	-	10?	-	-
1952-A24	2434049.50	1952 Feb 07	Nike X201 Ajax	-	490B	System Test 79R	-	-	-	WS	-	-	-	10?	-	-
1952-A31	2434061.50	1952 Feb 19	Nike X201 Ajax	?	490B	System Test 80R	-	-	-	WS	-	-	-	10?	-	-
1952-A34	2434067.50	1952 Feb 25	Nike Ajax	-	1249-100	Nike 1249 R&D 81R	-	-	-	WS	-	-	-	10?	-	-
1952-A38	2434071.50	1952 Feb 29	Nike X201 Ajax	?	490B	System Test 82R	-	-	-	WS	-	-	-	10?	-	-
1952-A39	2434075.50	1952 Mar 04	Nike X201 Ajax	?	490B	System Test 83R	-	-	-	WS	-	-	-	10?	-	-
1952-A41	2434076.50	1952 Mar 05	Nike Ajax	-	1249-101	Nike 1249 R&D 84R	-	-	-	WS	-	-	-	10?	-	-
1952-A45	2434085.50	1952 Mar 14	Nike Ajax	-	1249-98	Nike 1249 R&D 85R	-	-	-	WS	-	-	-	10?	-	-
1952-A52	2434099.50	1952 Mar 28	Nike X201 Ajax	?	490B	System Test 86R	-	-	-	WS	-	-	-	10?	-	-
1952-A53	2434099.50	1952 Mar 28	Nike X201 Ajax	?	490B	System Test 87R	-	-	-	WS	-	-	-	10?	-	-
1952-A60	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	Warhead Test 88R	-	-	-	WS	-	-	-	10?	-	-
1952-A62	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	Warhead Test 89R	-	-	-	WS	-	-	-	10?	-	-
1952-A61	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	Warhead Test 90R	-	-	-	WS	-	-	-	10?	-	-
1952-A69	2434126.50	1952 Apr 24	Nike X201 Ajax	?	491	Warhead Test 91R	-	-	-	WS	-	-	-	10?	-	-
1952-A70	2434126.50	1952 Apr 24	Nike X201 Ajax	?	491	Warhead Test 92R	-	-	-	WS	-	-	-	10?	-	-
1952-A73	2434134.50	1952 May 02	Nike Ajax	-	1249-102	Nike 1249 R&D 93R	-	-	-	WS	-	-	-	10?	-	-
1952-A80	2434148.50	1952 May 16	Nike Ajax	-	1249-103	Nike 1249 R&D 94R	-	-	-	WS	-	-	-	10?	-	-
1952-A90	2434160.50	1952 May 28	Nike Ajax	-	1249-104	Nike 1249 R&D 95R	-	-	-	WS	-	-	-	10?	-	-
1952-A94	2434175.50	1952 Jun 12	Nike Ajax	-	1249-105 XM5 test	Nike 1249 R&D 96R	-	-	-	WS	-	-	-	10?	-	-
1952-A99	2434181.50	1952 Jun 18	Nike Ajax	-	1249-106 XM5 test	Nike 1249 R&D 97R	-	-	-	WS	-	-	-	10?	-	-
1952-A102	2434188.50	1952 Jun 25	Nike Ajax	-	1249-107 XM5 test	Nike 1249 R&D 98R	-	-	-	WS	-	-	-	10?	-	-
1952-A114	2434210.50	1952 Jul 17	Nike Ajax	-	1249-111 XM5 test	Nike 1249 R&D 100R	-	-	-	WS	-	-	-	10?	-	-
1952-A284	2434215.50	1952 Jul 22	Nike X201 Ajax	-	1249-108	Nike 1249 R&D 99R	-	-	-	WS	-	-	-	10?	-	-
1952-A116	2434215.50	1952 Jul 22	Nike Ajax	-	1249B-1001	Nike 1249 R&D 101R	-	-	-	WS	-	-	-	10?	-	-
1952-A122	2434222.50	1952 Jul 29	Nike Ajax	-	1249B-1002	Nike 1249 R&D 102R	-	-	-	WS	-	-	-	10?	-	-
1952-A123	2434224.50	1952 Jul 31	Nike Ajax	-	1249-109	Nike 1249 R&D 103R	-	-	-	WS	-	-	-	10?	-	-
1952-A130	2434232.50	1952 Aug 08	Nike Ajax	-	1249-112	Nike 1249 R&D 104R	-	-	-	WS	-	-	-	10?	-	-
1952-A131	2434232.50	1952 Aug 08	Nike Ajax	-	1249B-1003	Nike 1249 R&D 105R	-	-	-	WS	-	-	-	10?	-	-
1952-A135	2434239.50	1952 Aug 15	Nike Ajax	-	1249-113	Nike 1249 R&D 106R	-	-	-	WS	-	-	-	10?	-	-
1952-A136	2434239.50	1952 Aug 15	Nike Ajax	-	1249B-1004	Nike 1249 R&D 107R	-	-	-	WS	-	-	-	10?	-	-
1952-A137	2434243.50	1952 Aug 19	Nike Ajax	-	1249-115	Nike 1249 R&D 108R	-	-	-	WS	-	-	-	10?	-	-
1952-A140	2434245.50	1952 Aug 21	Nike Ajax	-	1249-110	Nike 1249 R&D 109R	-	-	-	WS	-	-	-	10?	-	-
1952-A154	2434266.50	1952 Sep 11	Nike Ajax	-	1249-114	Nike 1249 R&D 110R	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A157	2434271.50	1952 Sep 16	Nike Ajax	-	1249-117	Nike 1249 R&D 111R	-	-	-	WS	-	-	-	10?	-	-
1952-A163	2434279.50	1952 Sep 24	Nike Ajax	-	1249-116	Nike 1249 R&D 112R	-	-	-	WS	-	-	-	10?	-	-
1952-A166	2434280.50	1952 Sep 25	Nike Ajax	-	1249A-120	Nike 1249 R&D 113R	-	-	-	WS	-	-	-	10?	-	-
1952-A168	2434285.50	1952 Sep 30	Nike Ajax	-	1249A-118	Nike 1249 R&D 114R	-	-	-	WS	-	-	-	10?	-	-
1952-A171	2434287.50	1952 Oct 02	Nike Ajax	-	1249A-122	Nike 1249 R&D 115R	-	-	-	WS	-	-	-	10?	-	-
1952-A176	2434288.50	1952 Oct 03	Nike Ajax	-	1249A-121	Nike 1249 R&D 116R	-	-	-	WS	-	-	-	10?	-	-
1952-A177	2434288.50	1952 Oct 03	Nike Ajax	-	1249A-125	Nike 1249 R&D 117R	-	-	-	WS	-	-	-	10?	-	-
1952-A178	2434292.50	1952 Oct 07	Nike Ajax	-	1249A-123	Nike 1249 R&D 118R	-	-	-	WS	-	-	-	10?	-	-
1952-A179	2434292.50	1952 Oct 07	Nike Ajax	-	1249A-126	Nike 1249 R&D 119R	-	-	-	WS	-	-	-	10?	-	-
1952-A181	2434294.50	1952 Oct 09	Nike Ajax	-	1249A-127	Nike 1249 R&D 120R	-	-	-	WS	-	-	-	10?	-	-
1952-A182	2434295.50	1952 Oct 10	Nike Ajax	-	1249A-128	Nike 1249 R&D 121R	-	-	-	WS	-	-	-	10?	-	-
1952-A183	2434299.50	1952 Oct 14	Nike Ajax	-	1249A-129	Nike 1249 R&D 122R	-	-	-	WS	-	-	-	10?	-	-
1952-A188	2434302.50	1952 Oct 17	Nike Ajax	-	1249A-130	Nike 1249 R&D 123R	-	-	-	WS	-	-	-	10?	-	-
1952-A189	2434306.50	1952 Oct 21	Nike Ajax	-	1249A-131	Nike 1249 R&D 124R	-	-	-	WS	-	-	-	10?	-	-
1952-A190	2434306.50	1952 Oct 21	Nike Ajax	-	1249A-132	Nike 1249 R&D 125R	-	-	-	WS	-	-	-	10?	-	-
1952-A191	2434309.50	1952 Oct 24	Nike Ajax	-	1249A-133	Nike 1249 R&D 126R	-	-	-	WS	-	-	-	10?	-	-
1952-A192	2434309.50	1952 Oct 24	Nike Ajax	-	1249A-134	Nike 1249 R&D 127R	-	-	-	WS	-	-	-	10?	-	-
1952-A193	2434313.50	1952 Oct 28	Nike Ajax	-	1249A-135	Nike 1249 R&D 128R	-	-	-	WS	-	-	-	10?	-	-
1952-A194	2434313.50	1952 Oct 28	Nike Ajax	-	1249A-136	Nike 1249 R&D 129R	-	-	-	WS	-	-	-	10?	-	-
1952-A199	2434315.50	1952 Oct 30	Nike Ajax	-	1249A-138	Nike 1249 R&D 130R	-	-	-	WS	-	-	-	10?	-	-
1952-A200	2434315.50	1952 Oct 30	Nike Ajax	-	1249A-137	Nike 1249 R&D 131R	-	-	-	WS	-	-	-	10?	-	-
1952-A205	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-139	Nike 1249 R&D 132R	-	-	-	WS	-	-	-	10?	-	-
1952-A206	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-140	Nike 1249 R&D 133R	-	-	-	WS	-	-	-	10?	-	-
1952-A207	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-141	Nike 1249 R&D 134R	-	-	-	WS	-	-	-	10?	-	-
1952-A208	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-142	Nike 1249 R&D 135R	-	-	-	WS	-	-	-	10?	-	-
1952-A213	2434323.50	1952 Nov 07	Nike Ajax	-	1249B-1010	Nike Eng IE	-	-	-	WS	-	-	-	10?	-	-
1952-A219	2434329.50	1952 Nov 13	Nike Ajax	-	1249A-143	Nike 1249 R&D 136R	-	-	-	WS	-	-	-	10?	-	-
1952-A220	2434329.50	1952 Nov 13	Nike Ajax	-	1249A-144	Nike 1249 R&D 137R	-	-	-	WS	-	-	-	10?	-	-
1952-A228	2434334.50	1952 Nov 18	Nike Ajax	-	1249A-119	Nike 1249 R&D 138R	-	-	-	WS	-	-	-	10?	-	-
1952-A229	2434334.50	1952 Nov 18	Nike Ajax	-	1249A-147	Nike 1249 R&D 139R	-	-	-	WS	-	-	-	10?	-	-
1952-A237	2434336.50	1952 Nov 20	Nike Ajax	-	1249A-145	Nike 1249 R&D 140R	-	-	-	WS	-	-	-	10?	-	-
1952-A236	2434336.50	1952 Nov 20	Nike Ajax	-	1249A-146	Nike 1249 R&D 141R	-	-	-	WS	-	-	-	10?	-	-
1952-A241	2434341.50	1952 Nov 25	Nike Ajax	-	1249B-1014	Nike Eng 2E	-	-	-	WS	-	-	-	10?	-	-
1952-A240	2434341.50	1952 Nov 25	Nike Ajax	-	1249B-1020	Nike Eng 3E	-	-	-	WS	-	-	-	10?	-	-
1952-A247	2434342.50	1952 Nov 26	Nike Ajax	-	1249A-148	Nike 1249 R&D 142R	-	-	-	WS	-	-	-	10?	-	-
1952-A246	2434342.50	1952 Nov 26	Nike Ajax	-	1249A-149	Nike 1249 R&D 143R	-	-	-	WS	-	-	-	10?	-	-
1952-A253	2434349.50	1952 Dec 03	Nike Ajax	-	1249A-150	Nike 1249 R&D 144R	-	-	-	WS	-	-	-	10?	-	-
1952-A252	2434349.50	1952 Dec 03	Nike Ajax	-	1249B-1037	Nike 1249 R&D 145R	-	-	-	WS	-	-	-	10?	-	-
1952-A259	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-124	Nike 1249 R&D 146R	-	-	-	WS	-	-	-	10?	-	-
1952-A256	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-153	Nike 1249 R&D 147R	-	-	-	WS	-	-	-	10?	-	-
1952-A257	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-154	Nike 1249 R&D 148R	-	-	-	WS	-	-	-	10?	-	-
1952-A258	2434350.50	1952 Dec 04	Nike Ajax	-	1249B-1043	Nike 1249 R&D 149R	-	-	-	WS	-	-	-	10?	-	-
1952-A263	2434355.50	1952 Dec 09	Nike Ajax	-	1249A-156	Nike 1249 R&D 150R	-	-	-	WS	-	-	-	10?	-	-
1952-A265	2434357.50	1952 Dec 11	Nike Ajax	-	1249A-151	Nike 1249 R&D 151R	-	-	-	WS	-	-	-	10?	-	-
1952-A264	2434357.50	1952 Dec 11	Nike Ajax	-	1249A-155	Nike 1249 R&D 152R	-	-	-	WS	-	-	-	10?	-	-
1952-A273	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-158	Nike 1249 R&D 153R	-	-	-	WS	-	-	-	10?	-	-
1952-A274	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-152	Nike 1249 R&D 154R	-	-	-	WS	-	-	-	10?	-	-
1952-A272	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-157	Nike 1249 R&D 155R	-	-	-	WS	-	-	-	10?	-	-
1952-A281	2434365.50	1952 Dec 19	Nike Ajax	-	1249A-160	Nike 1249 R&D 156R	-	-	-	WS	-	-	-	10?	-	-
1952-A280	2434365.50	1952 Dec 19	Nike Ajax	-	1249A-159	Nike 1249 R&D 157R	-	-	-	WS	-	-	-	10?	-	-
1953-A06	2434385.50	1953 Jan 08	Nike Ajax	-	1249B	Nike Eng 5E	-	-	-	WS	-	-	-	10?	-	-
1953-A08	2434385.50	1953 Jan 08	Nike Ajax	-	1249A-161	Nike 1249 R&D 158R	-	-	-	WS	-	-	-	10?	-	-
1953-A07	2434385.50	1953 Jan 08	Nike Ajax	-	1249A-163	Nike 1249 R&D 159R	-	-	-	WS	-	-	-	10?	-	-
1953-A14	2434390.50	1953 Jan 13	Nike Ajax	-	1249A-167	Nike 1249 R&D 160R	-	-	-	WS	-	-	-	10?	-	-
1953-A15	2434390.50	1953 Jan 13	Nike Ajax	-	1249A-164	Nike 1249 R&D 161R	-	-	-	WS	-	-	-	10?	-	-
1953-A18	2434392.50	1953 Jan 15	Nike Ajax	-	1249A-176	Nike 1249 R&D 162R	-	-	-	WS	-	-	-	10?	-	-
1953-A21	2434393.50	1953 Jan 16	Nike Ajax	-	1249B	Nike Eng 6E	-	-	-	WS	-	-	-	10?	-	-
1953-A22	2434393.50	1953 Jan 16	Nike Ajax	-	1249A-173	Nike 1249 R&D 163R	-	-	-	WS	-	-	-	10?	-	-
1953-A27	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-174	Nike 1249 R&D 164R	-	-	-	WS	-	-	-	10?	-	-
1953-A26	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-171	Nike 1249 R&D 165R	-	-	-	WS	-	-	-	10?	-	-
1953-A25	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-170	Nike 1249 R&D 166R	-	-	-	WS	-	-	-	10?	-	-
1953-A30	2434400.50	1953 Jan 23	Nike Ajax	-	1249B	Nike Eng 7E	-	-	-	WS	-	-	-	10?	-	-
1953-A29	2434400.50	1953 Jan 23	Nike Ajax	-	1249B	Nike Eng 8E	-	-	-	WS	-	-	-	10?	-	-
1953-A31	2434400.50	1953 Jan 23	Nike Ajax	-	1249A-177	Nike 1249 R&D 167R	-	-	-	WS	-	-	-	10?	-	-
1953-A32	2434404.50	1953 Jan 27	Nike Ajax	-	301P	Nike 301P CET 1	-	-	-	WS	-	-	-	10?	-	-
1953-A33	2434404.50	1953 Jan 27	Nike Ajax	-	1249B-1073	Nike 1249 R&D 168R	-	-	-	WS	-	-	-	10?	-	-
1953-A34	2434404.50	1953 Jan 27	Nike Ajax	-	1249B-1075	Nike 1249 R&D 169R	-	-	-	WS	-	-	-	10?	-	-
1953-A35	2434404.50	1953 Jan 27	Nike Ajax	-	302P	Nike 302P CET 2	-	-	-	WS	-	-	-	10?	-	-
1953-A39	2434406.50	1953 Jan 29	Nike Ajax	-	1249A-179	Nike 1249 R&D 170R	-	-	-	WS	-	-	-	10?	-	-
1953-A04	2434411.50	1953 Feb 03	Nike Ajax	-	303P	Nike CET 3	-	-	-	WS	-	-	-	10?	-	-
1953-A42	2434411.50	1953 Feb 03	Nike Ajax	-	304P	Nike CET 4	-	-	-	WS	-	-	-	10?	-	-
1953-A46	2434413.50	1953 Feb 05	Nike Ajax	-	305P	Nike CET 5	-	-	-	WS	-	-	-	10?	-	-
1953-A45	2434413.50	1953 Feb 05	Nike Ajax	-	306P	Nike CET 6	-	-	-	WS	-	-	-	10?	-	-
1953-A48	2434417.50	1953 Feb 09	Nike Ajax	-	1249A-191	Nike 1249 R&D 171R	-	-	-	WS	-	-	-	10?	-	-
1953-A56	2434420.50	1953 Feb 12	Nike Ajax	-	307P	Nike CET 7	-	-	-	WS	-	-	-	10?	-	-
1953-A57	2434420.50	1953 Feb 12	Nike Ajax	-	1249A-182	Nike 1249 R&D 172R	-	-	-	WS	-	-	-	10?	-	-
1953-A61	2434421.50	1953 Feb 13	Nike Ajax	-	1249A-183	Nike 1249 R&D 173R	-	-	-	WS	-	-	-	10?	-	-
1953-A62	2434421.50	1953 Feb 13	Nike Ajax	-	1249B	Nike Eng 9E	-	-	-	WS	-	-	-	10?	-	-
1953-A63	2434421.50	1953 Feb 13	Nike Ajax	-	1249A-185	Nike 1249 R&D 174R	-	-	-	WS	-	-	-	10?	-	-
1953-A65	2434425.50	1953 Feb 17	Nike Ajax	-	1249A-166	Nike 1249 R&D 175R	-	-	-	WS	-	-	-	10?	-	-
1953-A66	2434425.50	1953 Feb 17	Nike Ajax	-	1249B-1100	Nike 1249 R&D 176R	-	-	-	WS	-	-	-	10?	-	-
1953-A67	2434425.50	1953 Feb 17	Nike Ajax	-	1249B-1090	Nike 1249 R&D 177R	-	-	-	WS	-	-	-	10?	-	-
1953-A68	2434425.50	1953 Feb 17	Nike Ajax	-	1249A-180	Nike 1249 R&D 178R	-	-	-	WS	-	-	-	10?	-	-
1953-A69	2434427.50	1953 Feb 19	Nike Ajax	-	1249B	Nike Eng 10E	-	-	-	WS	-	-	-	10?	-	-
1953-A72	2434428.50	1953 Feb 20	Nike Ajax	-	308P	Nike CET 8	-	-	-	WS	-	-	-	10?	-	-
1953-A73	2434428.50	1953 Feb 20	Nike Ajax	-	309P	Nike CET 9	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A77	2434433.50	1953 Feb 25	Nike Ajax	-	1249A-195	Nike 1249 R&D 179R	-	-	-	WS	-	-	-	10?	-	-
1953-A78	2434433.50	1953 Feb 25	Nike Ajax	-	1042E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A79	2434433.50	1953 Feb 25	Nike Ajax	-	1038E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A81	2434434.50	1953 Feb 26	Nike Ajax	-	310P	Nike CET 10	-	-	-	WS	-	-	-	10?	-	-
1953-A82	2434434.50	1953 Feb 26	Nike Ajax	-	311P	Nike CET 11	-	-	-	WS	-	-	-	10?	-	-
1953-A83	2434434.50	1953 Feb 26	Nike Ajax	-	1021E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A85	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-165	Nike 1249 R&D 180R	-	-	-	WS	-	-	-	10?	-	-
1953-A86	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-162	Nike 1249 R&D 181R	-	-	-	WS	-	-	-	10?	-	-
1953-A87	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-186	Nike 1249 R&D 182R	-	-	-	WS	-	-	-	10?	-	-
1953-A90	2434439.50	1953 Mar 03	Nike Ajax	-	1013E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A91	2434439.50	1953 Mar 03	Nike Ajax	-	1249A-169	Nike 1249 R&D 183R	-	-	-	WS	-	-	-	10?	-	-
1953-A92	2434439.50	1953 Mar 03	Nike Ajax	-	1249A-168	Nike 1249 R&D 184R	-	-	-	WS	-	-	-	10?	-	-
1953-A96	2434441.50	1953 Mar 05	Nike Ajax	-	312P	Nike CET 12	-	-	-	WS	-	-	-	10?	-	-
1953-A97	2434441.50	1953 Mar 05	Nike Ajax	-	313P	Nike CET 13	-	-	-	WS	-	-	-	10?	-	-
1953-A498	2434441.50	1953 Mar 05	Nike Ajax	-	1249A-192	Nike 1249 R&D 185R	-	-	-	WS	-	-	-	10?	-	-
1953-A98	2434441.50	1953 Mar 05	Nike Ajax	-	1249A-175	Nike 1249 R&D 186R	-	-	-	WS	-	-	-	10?	-	-
1953-A99	2434441.50	1953 Mar 05	Nike Ajax	-	1050E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A100	2434441.50	1953 Mar 05	Nike Ajax	-	1052E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A499	2434442.50	1953 Mar 06	Nike Ajax	-	1249A-188	Nike 1249 R&D 187R	-	-	-	WS	-	-	-	10?	-	-
1953-A102	2434446.50	1953 Mar 10	Nike Ajax	-	1249A-189	Nike 1249 R&D 188R	-	-	-	WS	-	-	-	10?	-	-
1953-A108	2434448.50	1953 Mar 12	Nike Ajax	-	314P	Nike CET 14	-	-	-	WS	-	-	-	10?	-	-
1953-A109	2434448.50	1953 Mar 12	Nike Ajax	-	315P	Nike CET 15	-	-	-	WS	-	-	-	10?	-	-
1953-A110	2434448.50	1953 Mar 12	Nike Ajax	-	316P	Nike CET 16	-	-	-	WS	-	-	-	10?	-	-
1953-A111	2434448.50	1953 Mar 12	Nike Ajax	-	1076E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A112	2434448.50	1953 Mar 12	Nike Ajax	-	1249A-200	Nike 1249 R&D 189R	-	-	-	WS	-	-	-	10?	-	-
1953-A113	2434448.50	1953 Mar 12	Nike Ajax	-	1249A-172	Nike 1249 R&D 190R	-	-	-	WS	-	-	-	10?	-	-
1953-A123	2434453.50	1953 Mar 17	Nike Ajax	-	1249A-201	Nike 1249 R&D 191R	-	-	-	WS	-	-	-	10?	-	-
1953-A120	2434453.50	1953 Mar 17	Nike Ajax	-	1249A-178	Nike 1249 R&D 192R	-	-	-	WS	-	-	-	10?	-	-
1953-A121	2434453.50	1953 Mar 17	Nike Ajax	-	1034E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A122	2434453.50	1953 Mar 17	Nike Ajax	-	1080E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A128	2434455.50	1953 Mar 19	Nike Ajax	-	1078E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A127	2434455.50	1953 Mar 19	Nike Ajax	-	317P	Nike CET 17	-	-	-	WS	-	-	-	10?	-	-
1953-A132	2434455.50	1953 Mar 19	Nike Ajax	-	318P	Nike CET 18	-	-	-	WS	-	-	-	10?	-	-
1953-A133	2434455.50	1953 Mar 19	Nike Ajax	-	319P	Nike CET 19	-	-	-	WS	-	-	-	10?	-	-
1953-A126	2434455.50	1953 Mar 19	Nike Ajax	-	320P	Nike CET 20	-	-	-	WS	-	-	-	10?	-	-
1953-A131	2434455.50	1953 Mar 19	Nike Ajax	-	321P	Nike CET 21	-	-	-	WS	-	-	-	10?	-	-
1953-A130	2434455.50	1953 Mar 19	Nike Ajax	-	322	Nike CET 22	-	-	-	WS	-	-	-	10?	-	-
1953-A129	2434455.50	1953 Mar 19	Nike Ajax	-	323P	Nike CET 23	-	-	-	WS	-	-	-	10?	-	-
1953-A142	2434460.50	1953 Mar 24	Nike Ajax	-	1088E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A144	2434462.50	1953 Mar 26	Nike Ajax	-	1046E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A145	2434462.50	1953 Mar 26	Nike Ajax	-	1074E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A146	2434462.50	1953 Mar 26	Nike Ajax	-	323P	Nike CET 23	-	-	-	WS	-	-	-	10?	-	-
1953-A147	2434462.50	1953 Mar 26	Nike Ajax	-	324P	Nike CET 24	-	-	-	WS	-	-	-	10?	-	-
1953-A143	2434462.50	1953 Mar 26	Nike Ajax	-	325P	Nike CET 25	-	-	-	WS	-	-	-	10?	-	-
1953-A148	2434462.50	1953 Mar 26	Nike Ajax	-	1249A-194	Nike 1249 R&D 193R	-	-	-	WS	-	-	-	10?	-	-
1953-A154	2434467.50	1953 Mar 31	Nike Ajax	-	1249B-1104	Nike 1249 R&D 194R	-	-	-	WS	-	-	-	10?	-	-
1953-A152	2434467.50	1953 Mar 31	Nike Ajax	-	1249B-1102	Nike 1249 R&D 195R	-	-	-	WS	-	-	-	10?	-	-
1953-A153	2434467.50	1953 Mar 31	Nike Ajax	-	1099E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A158	2434469.50	1953 Apr 02	Nike Ajax	-	326P	Nike CET 26	-	-	-	WS	-	-	-	10?	-	-
1953-A157	2434469.50	1953 Apr 02	Nike Ajax	-	327P	Nike CET 27	-	-	-	WS	-	-	-	10?	-	-
1953-A160	2434469.50	1953 Apr 02	Nike Ajax	-	1249B-1181	Nike 1249 R&D 196R	-	-	-	WS	-	-	-	10?	-	-
1953-A159	2434469.50	1953 Apr 02	Nike Ajax	-	1249B-1183	Nike 1249 R&D 197R	-	-	-	WS	-	-	-	10?	-	-
1953-A500	2434469.50	1953 Apr 2	Nike Ajax	-	1249A-197	Nike 1249 R&D 198R	-	-	-	WS	-	-	-	10?	-	-
1953-A138	2434470.50	1953 Apr 3	Nike Ajax	-	1249A-196	Nike 1249 R&D 199R	-	-	-	WS	-	-	-	10?	-	-
1953-A164	2434476.50	1953 Apr 09	Nike Ajax	-	328P	Nike CET 28	-	-	-	WS	-	-	-	10?	-	-
1953-A163	2434476.50	1953 Apr 09	Nike Ajax	-	329P	Nike CET 29	-	-	-	WS	-	-	-	10?	-	-
1953-A169	2434481.50	1953 Apr 14	Nike Ajax	-	1249A-198	Nike 1249 R&D 200R	-	-	-	WS	-	-	-	10?	-	-
1953-A166	2434481.50	1953 Apr 14	Nike Ajax	-	1249A-199	Nike 1249 R&D 201R	-	-	-	WS	-	-	-	10?	-	-
1953-A167	2434481.50	1953 Apr 14	Nike Ajax	-	1086E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A168	2434481.50	1953 Apr 14	Nike Ajax	-	1082E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A170	2434483.50	1953 Apr 16	Nike Ajax	-	1249A-203	Nike 1249 R&D 202R	-	-	-	WS	-	-	-	10?	-	-
1953-A171	2434483.50	1953 Apr 16	Nike Ajax	-	1249A-202	Nike 1249 R&D 203R	-	-	-	WS	-	-	-	10?	-	-
1953-A172	2434483.50	1953 Apr 16	Nike Ajax	-	1084E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A176	2434483.50	1953 Apr 16	Nike Ajax	-	330P	Nike CET 30	-	-	-	WS	-	-	-	10?	-	-
1953-A175	2434483.50	1953 Apr 16	Nike Ajax	-	331P	Nike CET 31	-	-	-	WS	-	-	-	10?	-	-
1953-A174	2434483.50	1953 Apr 16	Nike Ajax	-	332P	Nike CET 32	-	-	-	WS	-	-	-	10?	-	-
1953-A173	2434483.50	1953 Apr 16	Nike Ajax	-	333P	Nike CET 33	-	-	-	WS	-	-	-	10?	-	-
1953-A181	2434487.50	1953 Apr 20	Nike Ajax	-	334P	Nike CET 34	-	-	-	WS	-	-	-	10?	-	-
1953-A179	2434487.50	1953 Apr 20	Nike Ajax	-	335P	Nike CET 35	-	-	-	WS	-	-	-	10?	-	-
1953-A178	2434487.50	1953 Apr 20	Nike Ajax	-	336P	Nike CET 36	-	-	-	WS	-	-	-	10?	-	-
1953-A180	2434487.50	1953 Apr 20	Nike Ajax	-	337P	Nike CET 37	-	-	-	WS	-	-	-	10?	-	-
1953-A195	2434497.50	1953 Apr 30	Nike Ajax	-	338P	Nike CET 38	-	-	-	WS	-	-	-	10?	-	-
1953-A194	2434497.50	1953 Apr 30	Nike Ajax	-	339P	Nike CET 39	-	-	-	WS	-	-	-	10?	-	-
1953-A193	2434497.50	1953 Apr 30	Nike Ajax	-	340P	Nike CET 40	-	-	-	WS	-	-	-	10?	-	-
1953-A197	2434497.50	1953 Apr 30	Nike Ajax	-	1249A-204	Nike 1249 R&D 204R	-	-	-	WS	-	-	-	10?	-	-
1953-A196	2434497.50	1953 Apr 30	Nike Ajax	-	1249A-205	Nike 1249 R&D 205R	-	-	-	WS	-	-	-	10?	-	-
1953-A202	2434502.50	1953 May 05	Nike Ajax	-	1092E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A203	2434502.50	1953 May 05	Nike Ajax	-	1249B-1178	Nike 1249 R&D 206R	-	-	-	WS	-	-	-	10?	-	-
1953-A209	2434504.50	1953 May 07	Nike Ajax	-	341P	Nike CET 41	-	-	-	WS	-	-	-	10?	-	-
1953-A205	2434504.50	1953 May 07	Nike Ajax	-	342P	Nike CET 42	-	-	-	WS	-	-	-	10?	-	-
1953-A206	2434504.50	1953 May 07	Nike Ajax	-	343P	Nike CET 43	-	-	-	WS	-	-	-	10?	-	-
1953-A207	2434504.50	1953 May 07	Nike Ajax	-	344P	Nike CET 44	-	-	-	WS	-	-	-	10?	-	-
1953-A208	2434504.50	1953 May 07	Nike Ajax	-	1103E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A213	2434509.50	1953 May 12	Nike Ajax	-	345P	Nike CET 45	-	-	-	WS	-	-	-	10?	-	-
1953-A214	2434509.50	1953 May 12	Nike Ajax	-	346P	Nike CET 46	-	-	-	WS	-	-	-	10?	-	-
1953-A215	2434509.50	1953 May 12	Nike Ajax	-	347P	Nike CET 47	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A216	2434509.50	1953 May 12	Nike Ajax	-	348P	Nike CET 48	-	-	-	WS	-	-	-	10?	-	-
1953-A212	2434509.50	1953 May 12	Nike Ajax	-	349P	Nike CET 49	-	-	-	WS	-	-	-	10?	-	-
1953-A219	2434511.50	1953 May 14	Nike Ajax	-	1249B-1179	Nike 1249 R&D 207R	-	-	-	WS	-	-	-	10?	-	-
1953-A220	2434516.50	1953 May 19	Nike Ajax	-	1249A-181	Nike 1249 R&D 208R	-	-	-	WS	-	-	-	10?	-	-
1953-A221	2434516.50	1953 May 19	Nike Ajax	-	1249B-1180	Nike 1249 R&D 209R	-	-	-	WS	-	-	-	10?	-	-
1953-A228	2434525.50	1953 May 28	Nike Ajax	-	1249B-1151	Nike 1249 R&D 210R	-	-	-	WS	-	-	-	10?	-	-
1953-A230	2434530.50	1953 Jun 02	Nike Ajax	-	1249B-1153	Nike 1249 R&D 211R	-	-	-	WS	-	-	-	10?	-	-
1953-A231	2434530.50	1953 Jun 02	Nike Ajax	-	1249B-1106	Nike 1249 R&D 212R	-	-	-	WS	-	-	-	10?	-	-
1953-A232	2434532.50	1953 Jun 04	Nike Ajax	-	1249B-1192	Nike 1249 R&D 213R	-	-	-	WS	-	-	-	10?	-	-
1953-A233	2434532.50	1953 Jun 04	Nike Ajax	-	1249B-1098	Nike 1249 R&D 214R	-	-	-	WS	-	-	-	10?	-	-
1953-A234	2434533.50	1953 Jun 05	Nike Ajax	-	1188E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A237	2434537.50	1953 Jun 09	Nike Ajax	-	1187E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A240	2434539.50	1953 Jun 11	Nike Ajax	-	1249B-1124	Nike 1249 R&D 215R	-	-	-	WS	-	-	-	10?	-	-
1953-A241	2434539.50	1953 Jun 11	Nike Ajax	-	1249A-184	Nike 1249 R&D 216R	-	-	-	WS	-	-	-	10?	-	-
1953-A245	2434544.50	1953 Jun 16	Nike Ajax	-	1249B-1134	Nike 1249 R&D 217R	-	-	-	WS	-	-	-	10?	-	-
1953-A246	2434544.50	1953 Jun 16	Nike Ajax	-	1249B-1135	Nike 1249 R&D 218R	-	-	-	WS	-	-	-	10?	-	-
1953-A256	2434551.50	1953 Jun 23	Nike Ajax	-	1249B-1122	Nike 1249 R&D 219R	-	-	-	WS	-	-	-	10?	-	-
1953-A257	2434551.50	1953 Jun 23	Nike Ajax	-	1249B-1213	Nike 1249 R&D 220R	-	-	-	WS	-	-	-	10?	-	-
1953-A258	2434551.50	1953 Jun 23	Nike Ajax	-	1148E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A262	2434553.50	1953 Jun 25	Nike Ajax	-	1249B-1123	490B Booster/221R	-	-	-	WS	-	-	-	10?	-	-
1953-A276	2434558.50	1953 Jun 30	Nike Ajax	-	1249B-1205	Nike 1249 R&D 223R	-	-	-	WS	-	-	-	10?	-	-
1953-A277	2434558.50	1953 Jun 30	Nike Ajax	-	1249B-1207	Nike 1249 R&D 224R	-	-	-	WS	-	-	-	10?	-	-
1953-A278	2434559.50	1953 Jul 01	Nike Ajax	-	1160E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A281	2434564.50	1953 Jul 06	Nike Ajax	-	1137A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A285	2434567.50	1953 Jul 09	Nike Ajax	-	1204A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A286	2434567.50	1953 Jul 09	Nike Ajax	-	1161A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A287	2434567.50	1953 Jul 09	Nike Ajax	-	1249B-1203	Radford Booster/225R	-	-	-	WS	-	-	-	10?	-	-
1953-A288	2434567.50	1953 Jul 09	Nike Ajax	-	1249B-1219	Nike I Booster/226R	-	-	-	WS	-	-	-	10?	-	-
1953-A289	2434568.50	1953 Jul 10	Nike Ajax	-	1157A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A291	2434572.50	1953 Jul 14	Nike Ajax	-	1249B-1211	Nike 227R	-	-	-	WS	-	-	-	10?	-	-
1953-A292	2434572.50	1953 Jul 14	Nike Ajax	-	1152E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A295	2434575.50	1953 Jul 17	Nike Ajax	-	1249B-1231	Nike 228R	-	-	-	WS	-	-	-	10?	-	-
1953-A302	2434581.50	1953 Jul 23	Nike Ajax	-	1298R	-	-	-	-	WS	-	-	-	10?	-	-
1953-A303	2434581.50	1953 Jul 23	Nike Ajax	-	1249B-1277	Nike 230R	-	-	-	WS	-	-	-	10?	-	-
1953-A304	2434581.50	1953 Jul 23	Nike Ajax	-	1249B-1209	Nike 231R	-	-	-	WS	-	-	-	10?	-	-
1953-A308	2434586.50	1953 Jul 28	Nike Ajax	-	1249B-1221	Nike 232R	-	-	-	WS	-	-	-	10?	-	-
1953-A313	2434593.50	1953 Aug 04	Nike Ajax	-	1249B-1201	Nike 233R	-	-	-	WS	-	-	-	10?	-	-
1953-A319	2434600.50	1953 Aug 11	Nike Ajax	-	1249B-1215	Nike 234R	-	-	-	WS	-	-	-	10?	-	-
1953-A320	2434600.50	1953 Aug 11	Nike Ajax	-	1208E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A325	2434602.50	1953 Aug 13	Nike Ajax	-	1229R	Nike 235R	-	-	-	WS	-	-	-	10?	-	-
1953-A327	2434602.50	1953 Aug 13	Nike Ajax	-	1237R	Nike 236R	-	-	-	WS	-	-	-	10?	-	-
1953-A326	2434602.50	1953 Aug 13	Nike Ajax	-	1235R	Nike 237R	-	-	-	WS	-	-	-	10?	-	-
1953-A333	2434609.50	1953 Aug 20	Nike Ajax	-	1245R	Nike 238R	-	-	-	WS	-	-	-	10?	-	-
1953-A342	2434623.50	1953 Sep 03	Nike Ajax	-	1206A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A344	2434623.50	1953 Sep 03	Nike Ajax	-	1233R	Nike 239R	-	-	-	WS	-	-	-	10?	-	-
1953-A345	2434623.50	1953 Sep 03	Nike Ajax	-	1223R	Nike 240R	-	-	-	WS	-	-	-	10?	-	-
1953-A343	2434623.50	1953 Sep 03	Nike Ajax	-	1225R	Nike 241R	-	-	-	WS	-	-	-	10?	-	-
1953-A349	2434629.50	1953 Sep 09	Nike Ajax	-	1224A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A350	2434629.50	1953 Sep 09	Nike Ajax	-	1214A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A353	2434630.50	1953 Sep 10	Nike Ajax	-	1253R	Nike 242R	-	-	-	WS	-	-	-	10?	-	-
1953-A354	2434631.50	1953 Sep 11	Nike Ajax	-	1133A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A355	2434631.50	1953 Sep 11	Nike Ajax	-	1189A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A362	2434637.50	1953 Sep 17	Nike Ajax	-	1255R	Nike 243R	-	-	-	WS	-	-	-	10?	-	-
1953-A361	2434637.50	1953 Sep 17	Nike Ajax	-	1249R	Nike 244R	-	-	-	WS	-	-	-	10?	-	-
1953-A363	2434642.50	1953 Sep 22	Nike Ajax	-	1144E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A369	2434644.50	1953 Sep 24	Nike Ajax	-	1265R	Nike 245R	-	-	-	WS	-	-	-	10?	-	-
1953-A371	2434645.50	1953 Sep 25	Nike Ajax	-	1128E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A372	2434645.50	1953 Sep 25	Nike Ajax	-	1258E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A373	2434645.50	1953 Sep 25	Nike Ajax	-	1268E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A374	2434645.50	1953 Sep 25	Nike Ajax	-	1263E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A379	2434651.50	1953 Oct 01	Nike Ajax	-	1257R	Nike 246R	-	-	-	WS	-	-	-	10?	-	-
1953-A380	2434651.50	1953 Oct 01	Nike Ajax	-	1267R	Nike 247R	-	-	-	WS	-	-	-	10?	-	-
1953-A381	2434651.50	1953 Oct 01	Nike Ajax	-	1269R	Nike 248R	-	-	-	WS	-	-	-	10?	-	-
1953-A387	2434656.50	1953 Oct 06	Nike Ajax	-	1234A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A388	2434656.50	1953 Oct 06	Nike Ajax	-	1236A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A389	2434656.50	1953 Oct 06	Nike Ajax	-	1149A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A393	2434658.50	1953 Oct 08	Nike Ajax	-	1275R	Nike 249R	-	-	-	WS	-	-	-	10?	-	-
1953-A396	2434663.50	1953 Oct 13	Nike Ajax	-	1194A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A397	2434663.50	1953 Oct 13	Nike Ajax	-	1218A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A398	2434664.50	1953 Oct 14	Nike Ajax	-	1138E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A399	2434664.50	1953 Oct 14	Nike Ajax	-	1154E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A405	2434665.50	1953 Oct 15	Nike Ajax	-	1271R	Nike 250R	-	-	-	WS	-	-	-	10?	-	-
1953-A403	2434665.50	1953 Oct 15	Nike Ajax	-	1281R	Nike 251R	-	-	-	WS	-	-	-	10?	-	-
1953-A404	2434665.50	1953 Oct 15	Nike Ajax	-	1279R	Nike 252R	-	-	-	WS	-	-	-	10?	-	-
1953-A402	2434665.50	1953 Oct 15	Nike Ajax	-	1263R	Nike 253R	-	-	-	WS	-	-	-	10?	-	-
1953-A407	2434670.50	1953 Oct 20	Nike Ajax	-	1283R	Nike 254R	-	-	-	WS	-	-	-	10?	-	-
1953-A408	2434670.50	1953 Oct 20	Nike Ajax	-	1277R	Nike 255R	-	-	-	WS	-	-	-	10?	-	-
1953-A413	2434672.50	1953 Oct 22	Nike Ajax	-	1289R	Nike 256R	-	-	-	WS	-	-	-	10?	-	-
1953-A414	2434672.50	1953 Oct 22	Nike Ajax	-	1251R	Nike 257R	-	-	-	WS	-	-	-	10?	-	-
1953-A417	2434673.50	1953 Oct 23	Nike	-	-	Navaho Model	-	-	-	WI	-	-	-	1?	-	-
1953-A420	2434677.50	1953 Oct 27	Nike Ajax	-	1287R	Nike 258R	-	-	-	WS	-	-	-	10?	-	-
1953-A421	2434678.50	1953 Oct 28	Nike Ajax	-	1222A	-	Tactical Training	-	-	WS	RC	-	-	10?	-	-
1953-A428	2434684.50	1953 Nov 03	Nike Ajax	-	1241R	Nike 259R	-	-	-	WS	-	-	-	10?	-	-
1953-A430	2434684.50	1953 Nov 03	Nike Ajax	-	1273R	Nike 261R	-	-	-	WS	-	-	-	10?	-	-
1953-A427	2434684.50	1953 Nov 03	Nike Ajax	-	1259R	Nike 262R	-	-	-	WS	-	-	-	10?	-	-
1953-A429	2434684.50	1953 Nov 03	Nike Ajax	-	1293R	Nike 263R	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A438	2434693.50	1953 Nov 12	Nike Ajax	-	1136A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A440	2434694.50	1953 Nov 13	Nike Ajax	-	1210A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A441	2434694.50	1953 Nov 13	Nike Ajax	-	1225A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A450	2434700.50	1953 Nov 19	Nike Ajax	-	1282E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A451	2434700.50	1953 Nov 19	Nike Ajax	-	1278E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A452	2434700.50	1953 Nov 19	Nike Ajax	-	1262E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A453	2434700.50	1953 Nov 19	Nike Ajax	-	1276E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A454	2434700.50	1953 Nov 19	Nike Deacon	-	-	F40 Hypersonic Test	-	-	-	WI	-	-	-	10?	-	-
1953-A460	2434706.50	1953 Nov 25	Nike Ajax	-	1212A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A461	2434706.50	1953 Nov 25	Nike Ajax	-	?T	-	-	-	-	WS	-	-	-	10?	-	-
1953-A462	2434706.50	1953 Nov 25	Nike Ajax	-	1238A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A463	2434706.50	1953 Nov 25	Nike Ajax	-	1286A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A464	2434706.50	1953 Nov 25	Nike Ajax	-	?T	-	-	-	-	WS	-	-	-	10?	-	-
1953-A470	2434719.50	1953 Dec 08	Nike Ajax	-	1256E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A471	2434719.50	1953 Dec 08	Nike Ajax	-	1266E	-	-	-	-	WS	-	-	-	10?	-	-
1953-A473	2434720.50	1953 Dec 09	Nike Ajax	-	?T	-	-	-	-	WS	-	-	-	10?	-	-
1953-A482	2434726.50	1953 Dec 15	Nike Ajax	-	1198A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A486	2434727.50	1953 Dec 16	Nike Ajax	-	1216A	-	-	-	-	WS	-	-	-	10?	-	-
1953-A490	2434728.50	1953 Dec 17	Nike Ajax	-	1230A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A04	2434748.50	1954 Jan 06	Nike Ajax	-	1288T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A07	2434749.50	1954 Jan 07	Nike Ajax	-	1197A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A11	2434753.50	1954 Jan 11	Nike Ajax	-	1298T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A12	2434753.50	1954 Jan 11	Nike Ajax	-	1200A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A15	2434754.50	1954 Jan 12	Nike Ajax	-	1202E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A16	2434755.50	1954 Jan 13	Nike Ajax	-	1186A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A21	2434757.50	1954 Jan 15	Nike Ajax	-	1596E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A22	2434757.50	1954 Jan 15	Nike Ajax	-	1435E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A23	2434757.50	1954 Jan 15	Nike Ajax	-	1587E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A24	2434760.50	1954 Jan 18	Nike Ajax	-	1723E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A25	2434760.50	1954 Jan 18	Nike Ajax	-	1617E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A32	2434767.50	1954 Jan 25	Nike Ajax	-	1280T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A37	2434771.50	1954 Jan 29	Nike Ajax	-	1633A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A42	2434776.50	1954 Feb 3	Nike	-	-	Navaho Model	-	-	-	WI	-	-	-	10?	-	-
1954-A44	2434779.50	1954 Feb 06	Nike Ajax	-	1264T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A45	2434781.50	1954 Feb 08	Nike Ajax	-	1307R	Nike 264R	-	-	-	WS	-	-	-	10?	-	-
1954-A51	2434783.50	1954 Feb 10	Nike Ajax	-	1309R	Nike 265R	-	-	-	WS	-	-	-	10?	-	-
1954-A62	2434790.50	1954 Feb 17	Nike Ajax	-	1585A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A63	2434790.50	1954 Feb 17	Nike Ajax	-	1232A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A81	2434798.50	1954 Feb 25	Nike Ajax	-	1318A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A84	2434799.50	1954 Feb 26	Nike Ajax	-	1260T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A86	2434801.50	1954 Mar	Nike	-	-	Navaho Model	-	-	-	WI	-	-	-	1?	-	-
1954-A92	2434804.50	1954 Mar 03	Nike Ajax	-	1311R	Nike 266R	-	-	-	WS	-	-	-	10?	-	-
1954-A101	2434806.50	1954 Mar 05	Nike Ajax	-	1313R	Nike 267R	-	-	-	WS	-	-	-	10?	-	-
1954-A102	2434806.50	1954 Mar 05	Nike Ajax	-	1274A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A103	2434806.50	1954 Mar 05	Nike Ajax	-	1649E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A104	2434806.50	1954 Mar 05	Nike Ajax	-	1535E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A106	2434806.50	1954 Mar 05	Nike Ajax	-	1366T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A109	2434813.50	1954 Mar 12	Nike Ajax	-	1294T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A110	2434815.50	1954 Mar 14	Nike Ajax	-	1131T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A111	2434818.50	1954 Mar 17	Nike Ajax	-	1285R Bell motor	Nike 268R	-	-	-	WS	-	-	-	10?	-	-
1954-A114	2434819.50	1954 Mar 18	Nike Ajax	-	1610E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A115	2434819.50	1954 Mar 18	Nike Ajax	-	1785	-	-	-	-	WS	-	-	-	10?	-	-
1954-A118	2434820.50	1954 Mar 19	Nike Ajax	-	1374T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A119	2434821.50	1954 Mar 20	Nike Ajax	-	1300T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A120	2434823.50	1954 Mar 22	Nike Ajax	-	2245A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A130	2434827.50	1954 Mar 26	Nike Ajax	-	2358E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A131	2434827.50	1954 Mar 26	Nike Ajax	-	1372T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A132	2434827.50	1954 Mar 26	Nike Ajax	-	1336E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A136	2434831.50	1954 Mar 30	Nike Ajax	-	1295R AGC motor	Nike 269R	-	-	-	WS	-	-	-	10?	-	-
1954-A137	2434832.50	1954 Mar 31	Nike Ajax	-	1623E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A138	2434832.50	1954 Mar 31	Nike Ajax	-	1708E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A141	2434834.50	1954 Apr 02	Nike Ajax	-	1139T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A142	2434834.50	1954 Apr 02	Nike Ajax	-	1489E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A143	2434834.50	1954 Apr 02	Nike Ajax	-	1734E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A146	2434838.50	1954 Apr 06	Nike Ajax	-	1316A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A147	2434839.50	1954 Apr 07	Nike Ajax	-	1559E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A148	2434839.50	1954 Apr 07	Nike Ajax	-	1477E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A149	2434839.50	1954 Apr 07	Nike Ajax	-	1319R Bell motor	Nike 270R	-	-	-	WS	-	-	-	10?	-	-
1954-A150	2434839.50	1954 Apr 07	Nike Ajax	-	1430E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A153	2434840.50	1954 Apr 08	Nike Ajax	-	1369T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A161	2434842.50	1954 Apr 10	Nike Ajax	-	1270T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A162	2434842.50	1954 Apr 10	Nike Ajax	-	1378T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A164	2434843.50	1954 Apr 11	Nike Ajax	-	1380T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A165	2434844.50	1954 Apr 12	Nike Ajax	-	1381T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A168	2434845.50	1954 Apr 13	Nike Ajax	-	2294A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A170	2434846.50	1954 Apr 14	Nike Ajax	-	1299R Bell motor	Nike 271R	-	-	-	WS	-	-	-	10?	-	-
1954-A171	2434846.50	1954 Apr 14	Nike Ajax	-	1315R	Nike 272R	-	-	-	WS	-	-	-	10?	-	-
1954-A172	2434846.50	1954 Apr 14	Nike Ajax	-	1317R	Nike 273R	-	-	-	WS	-	-	-	10?	-	-
1954-A175	2434847.50	1954 Apr 15	Nike Ajax	-	1629E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A176	2434847.50	1954 Apr 15	Nike Ajax	-	1663E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A177	2434847.50	1954 Apr 15	Nike Ajax	-	1398E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A178	2434847.50	1954 Apr 15	Nike Ajax	-	1383T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A179	2434848.50	1954 Apr 16	Nike Ajax	-	1367T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A180	2434849.50	1954 Apr 17	Nike Ajax	-	1319R	-	-	-	-	WS	-	-	-	10?	-	-
1954-A181	2434852.50	1954 Apr 20	Nike Ajax	-	2263A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A182	2434852.50	1954 Apr 20	Nike Ajax	-	1375T	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A187	2434854.50	1954 Apr 22	Nike Ajax	-	1395T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A188	2434854.50	1954 Apr 22	Nike Ajax	-	1638E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A193	2434855.50	1954 Apr 23	Nike Ajax	-	1401T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A194	2434856.50	1954 Apr 24	Nike Ajax	-	1384T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A195	2434858.50	1954 Apr 26	Nike Ajax	-	2220A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A201	2434859.50	1954 Apr 27	Nike Ajax	-	2256T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A202	2434859.50	1954 Apr 27	Nike Ajax	-	2320A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A203	2434859.50	1954 Apr 27	Nike Ajax	-	1404E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A204	2434859.50	1954 Apr 27	Nike Ajax	-	1452E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A205	2434859.50	1954 Apr 27	Nike Ajax	-	1552E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A206	2434859.50	1954 Apr 27	Nike Ajax	-	1724E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A207	2434860.50	1954 Apr 28	Nike Ajax	-	1358A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A209	2434860.50	1954 Apr 28	Nike Ajax	-	1321R	Nike 274R	-	-	-	WS	-	-	-	10?	-	-
1954-A210	2434860.50	1954 Apr 28	Nike Ajax	-	1605E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A211	2434860.50	1954 Apr 28	Nike Ajax	-	1323R Bell motor	Nike 275R	-	-	-	WS	-	-	-	10?	-	-
1954-A208	2434860.50	1954 Apr 28	Nike Ajax	-	2163R	Nike 276R	-	-	-	WS	-	-	-	10?	-	-
1954-A212	2434860.50	1954 Apr 28	Nike Ajax	-	1468T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A213	2434860.50	1954 Apr 28	Nike Ajax	-	1676E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A217	2434861.50	1954 Apr 29	Nike Nike Deacon	-	-	F40 Hypersonic Test	-	-	-	WI	-	-	-	13	-	-
1954-A218	2434861.50	1954 Apr 29	Nike Ajax	-	2288T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A219	2434861.50	1954 Apr 29	Nike Ajax	-	2264T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A226	2434862.50	1954 Apr 30	Nike Ajax	-	1397T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A228	2434865.50	1954 May 03	Nike Ajax	-	1774E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A229	2434865.50	1954 May 03	Nike Ajax	-	1583E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A231	2434866.50	1954 May 04	Nike Ajax	-	1400T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A236	2434867.50	1954 May 05	Nike Ajax	-	1297R	Nike 277R	-	-	-	WS	-	-	-	10?	-	-
1954-A237	2434867.50	1954 May 05	Nike Ajax	-	187R	Nike 278R	-	-	-	WS	-	-	-	10?	-	-
1954-A235	2434867.50	1954 May 05	Nike Ajax	-	1325R	Nike 279R	-	-	-	WS	-	-	-	10?	-	-
1954-A234	2434867.50	1954 May 05	Nike Ajax	-	2199R Bell motor	Nike 280R	-	-	-	WS	-	-	-	10?	-	-
1954-A238	2434867.50	1954 May 05	Nike Ajax	-	1656E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A239	2434867.50	1954 May 05	Nike Ajax	-	1503E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A240	2434867.50	1954 May 05	Nike Ajax	-	1338T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A241	2434867.50	1954 May 05	Nike Ajax	-	1412T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A243	2434869.50	1954 May 07	Nike Ajax	-	1386T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A244	2434869.50	1954 May 07	Nike Ajax	-	2101E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A245	2434869.50	1954 May 07	Nike Ajax	-	1541E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A246	2434869.50	1954 May 07	Nike Ajax	-	1354T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A247	2434870.50	1954 May 08	Nike Ajax	-	1437T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A248	2434870.50	1954 May 08	Nike Ajax	-	1333T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A249	2434871.50	1954 May 09	Nike Ajax	-	1342T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A250	2434872.50	1954 May 10	Nike Ajax	-	1398E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A257	2434874.50	1954 May 12	Nike Ajax	-	1484E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A260	2434874.50	1954 May 12	Nike Ajax	-	1334T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A262	2434874.50	1954 May 12	Nike Ajax	-	2207R	Nike 281R	-	-	-	WS	-	-	-	10?	-	-
1954-A263	2434874.50	1954 May 12	Nike Ajax	-	1700E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A264	2434874.50	1954 May 12	Nike Ajax	-	1643E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A265	2434874.50	1954 May 12	Nike Ajax	-	1467E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A266	2434874.50	1954 May 12	Nike Ajax	-	1305R	Nike 282R	-	-	-	WS	-	-	-	10?	-	-
1954-A258	2434874.50	1954 May 12	Nike Ajax	-	2177R	Nike 283R	-	-	-	WS	-	-	-	10?	-	-
1954-A259	2434874.50	1954 May 12	Nike Ajax	-	2249R	Nike 284R	-	-	-	WS	-	-	-	10?	-	-
1954-A261	2434874.50	1954 May 12	Nike Ajax	-	1345R	Nike 285R	-	-	-	WS	-	-	-	10?	-	-
1954-A269	2434875.50	1954 May 13	Nike Ajax	-	1350T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A275	2434876.50	1954 May 14	Nike Ajax	-	1405T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A276	2434876.50	1954 May 14	Nike Ajax	-	1692E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A277	2434876.50	1954 May 14	Nike Ajax	-	1511E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A280	2434879.50	1954 May 17	Nike Ajax	-	1716E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A283	2434880.50	1954 May 18	Nike Ajax	-	1455T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A286	2434881.50	1954 May 19	Nike Ajax	-	1419R	Nike 286R	-	-	-	WS	-	-	-	10?	-	-
1954-A287	2434881.50	1954 May 19	Nike Ajax	-	1394T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A288	2434881.50	1954 May 19	Nike Ajax	-	1377E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A290	2434882.50	1954 May 20	Nike Ajax	-	1390T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A291	2434882.50	1954 May 20	Nike Ajax	-	1415	-	-	-	-	WS	-	-	-	10?	-	-
1954-A295	2434886.50	1954 May 24	Nike Ajax	-	1389T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A297	2434887.50	1954 May 25	Nike Ajax	-	1414TT	-	-	-	-	WS	-	-	-	10?	-	-
1954-A300	2434888.50	1954 May 26	Nike Ajax	-	1301R Bell motor	Nike 288R	-	-	-	WS	-	-	-	10?	-	-
1954-A302	2434889.50	1954 May 27	Nike Ajax	-	1393T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A303	2434890.50	1954 May 28	Nike Ajax	-	1475T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A304	2434890.50	1954 May 28	Nike Ajax	-	1335T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A305	2434890.50	1954 May 28	Nike Ajax	-	1408T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A308	2434895.50	1954 Jun 02	Nike Ajax	-	1346T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A311	2434895.50	1954 Jun 02	Nike Ajax	-	1465T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A309	2434895.50	1954 Jun 02	Nike Ajax	-	1249B-1423	Nike 291R	-	-	-	WS	-	-	-	10?	-	-
1954-A310	2434895.50	1954 Jun 02	Nike Ajax	-	1249B-1913	Nike 293R	-	-	-	WS	-	-	-	10?	-	-
1954-A322	2434897.50	1954 Jun 04	Nike Ajax	-	1344T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A325	2434900.50	1954 Jun 07	Nike Ajax	-	2266A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A326	2434900.50	1954 Jun 07	Nike Ajax	-	1356A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A327	2434900.50	1954 Jun 07	Nike Ajax	-	2166A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A328	2434900.50	1954 Jun 07	Nike Ajax	-	1340A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A331	2434901.50	1954 Jun 08	Nike Ajax	-	1332T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A333	2434902.50	1954 Jun 09	Nike Ajax	-	1387T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A334	2434902.50	1954 Jun 09	Nike Ajax	-	1348E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A335	2434902.50	1954 Jun 09	Nike Ajax	-	1249B-2291	Nike 294R	-	-	-	WS	-	-	-	10?	-	-
1954-A336	2434902.50	1954 Jun 09	Nike Ajax	-	1421R	Nike 295R	-	-	-	WS	-	-	-	10?	-	-
1954-A337	2434902.50	1954 Jun 09	Nike Ajax	-	1243R	Nike 296R	-	-	-	WS	-	-	-	10?	-	-
1954-A342	2434903.50	1954 Jun 10	Nike Ajax	-	1434A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A343	2434904.50	1954 Jun 11	Nike Ajax	-	1808E	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A344	2434904.50	1954 Jun 11	Nike Ajax	-	1519E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A347	2434907.50	1954 Jun 14	Nike Ajax	-	1388T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A348	2434908.50	1954 Jun 15	Nike Ajax	-	1424E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A349	2434909.50	1954 Jun 16	Nike Ajax	-	1420E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A350	2434909.50	1954 Jun 16	Nike Ajax	-	2341R	Nike 297R	-	-	-	WS	-	-	-	10?	-	-
1954-A352	2434909.50	1954 Jun 16	Nike Ajax	-	1385E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A353	2434909.50	1954 Jun 16	Nike Ajax	-	2363RR	Nike 298R	-	-	-	WS	-	-	-	10?	-	-
1954-A351	2434909.50	1954 Jun 16	Nike Ajax	-	2311R	Nike 299R	-	-	-	WS	-	-	-	10?	-	-
1954-A354	2434909.50	1954 Jun 16	Nike Ajax	-	2481T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A355	2434909.50	1954 Jun 16	Nike Ajax	-	1324E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A356	2434909.50	1954 Jun 16	Nike Ajax	-	1347T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A360	2434910.50	1954 Jun 17	Nike Ajax	-	1402T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A363	2434914.50	1954 Jun 21	Nike Ajax	-	2424A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A365	2434915.50	1954 Jun 22	Nike Ajax	-	2477T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A369	2434916.50	1954 Jun 23	Nike Ajax	-	1438A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A371	2434916.50	1954 Jun 23	Nike Ajax	-	1495E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A372	2434916.50	1954 Jun 23	Nike Ajax	-	2387R	Nike 300R	-	-	-	WS	-	-	-	10?	-	-
1954-A370	2434916.50	1954 Jun 23	Nike Ajax	-	2299R	Nike 350R	-	-	-	WS	-	-	-	10?	-	-
1954-A368	2434916.50	1954 Jun 23	Nike Ajax	-	2415R	Nike 351R	-	-	-	WS	-	-	-	10?	-	-
1954-A373	2434916.50	1954 Jun 23	Nike Ajax	-	1337E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A375	2434917.50	1954 Jun 24	Nike Ajax	-	1448E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A376	2434918.50	1954 Jun 25	Nike Ajax	-	2379T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A377	2434918.50	1954 Jun 25	Nike Ajax	-	1403T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A378	2434918.50	1954 Jun 25	Nike Ajax	-	1351T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A380	2434921.50	1954 Jun 28	Nike Ajax	-	1391E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A384	2434922.50	1954 Jun 29	Nike Ajax	-	2376A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A385	2434922.50	1954 Jun 29	Nike Ajax	-	1353	-	-	-	-	WS	-	-	-	10?	-	-
1954-A389	2434923.50	1954 Jun 30	Nike Ajax	-	2478T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A391	2434923.50	1954 Jun 30	Nike Ajax	-	2405R	Nike 352R	-	-	-	WS	-	-	-	10?	-	-
1954-A390	2434923.50	1954 Jun 30	Nike Ajax	-	2395R	Nike 353R	-	-	-	WS	-	-	-	10?	-	-
1954-A392	2434924.50	1954 Jul 01	Nike Ajax	-	1399T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A394	2434925.50	1954 Jul 02	Nike Ajax	-	2755T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A396	2434930.50	1954 Jul 07	Nike Ajax	-	2752T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A397	2434930.50	1954 Jul 07	Nike Ajax	-	1349R	Nike 354R	-	-	-	WS	-	-	-	10?	-	-
1954-A398	2434930.50	1954 Jul 07	Nike Ajax	-	2437R	Nike 355R	-	-	-	WS	-	-	-	10?	-	-
1954-A399	2434932.50	1954 Jul 09	Nike Ajax	-	2754T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A400	2434932.50	1954 Jul 09	Nike Ajax	-	1793E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A401	2434932.50	1954 Jul 09	Nike Ajax	-	1331E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A402	2434932.50	1954 Jul 09	Nike Ajax	-	1407E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A403	2434932.50	1954 Jul 09	Nike Ajax	-	1461E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A404	2434932.50	1954 Jul 09	Nike Ajax	-	1359E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A405	2434932.50	1954 Jul 09	Nike Ajax	-	1464E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A406	2434932.50	1954 Jul 09	Nike Ajax	-	1527E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A407	2434932.50	1954 Jul 09	Nike Ajax	-	1740E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A410	2434936.50	1954 Jul 13	Nike Ajax	-	2765T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A411	2434937.50	1954 Jul 14	Nike Ajax	-	2476T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A413	2434939.50	1954 Jul 16	Nike Ajax	-	2753T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A415	2434942.50	1954 Jul 19	Nike Ajax	-	1754E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A416	2434942.50	1954 Jul 19	Nike Ajax	-	1440E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A423	2434943.50	1954 Jul 20	Nike Ajax	-	1406E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A424	2434943.50	1954 Jul 20	Nike Ajax	-	1428E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A425	2434944.50	1954 Jul 21	Nike Ajax	-	2767T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A426	2434944.50	1954 Jul 21	Nike Ajax	-	2751T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A431	2434945.50	1954 Jul 22	Nike Ajax	-	1426E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A432	2434945.50	1954 Jul 22	Nike Ajax	-	2779T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A433	2434945.50	1954 Jul 22	Nike Ajax	-	1410A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A436	2434949.50	1954 Jul 26	Nike Ajax	-	1352E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A437	2434949.50	1954 Jul 26	Nike Ajax	-	1818E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A438	2434949.50	1954 Jul 26	Nike Ajax	-	1446E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A439	2434949.50	1954 Jul 26	Nike Ajax	-	1411E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A440	2434949.50	1954 Jul 26	Nike Ajax	-	1417E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A441	2434949.50	1954 Jul 26	Nike Ajax	-	1457E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A445	2434950.50	1954 Jul 27	Nike Ajax	-	1450A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A446	2434950.50	1954 Jul 27	Nike Ajax	-	1341E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A447	2434950.50	1954 Jul 27	Nike Ajax	-	1827E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A450	2434951.50	1954 Jul 28	Nike Ajax	-	1447E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A451	2434951.50	1954 Jul 28	Nike Ajax	-	2482A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A452	2434951.50	1954 Jul 28	Nike Ajax	-	1420E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A453	2434951.50	1954 Jul 28	Nike Ajax	-	2770T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A454	2434951.50	1954 Jul 28	Nike Ajax	-	1249B-2439	Nike 356R	-	-	-	WS	-	-	-	10?	-	-
1954-A455	2434951.50	1954 Jul 28	Nike Ajax	-	1432E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A456	2434951.50	1954 Jul 28	Nike Ajax	-	2567R	Nike 357R	-	-	-	WS	-	-	-	10?	-	-
1954-A458	2434956.50	1954 Aug 02	Nike Ajax	-	2773T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A459	2434957.50	1954 Aug 03	Nike Ajax	-	2758T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A461	2434958.50	1954 Aug 04	Nike Ajax	-	2445R	Nike 358R	-	-	-	WS	-	-	-	10?	-	-
1954-A462	2434958.50	1954 Aug 04	Nike Ajax	-	2449R	Nike 359R	-	-	-	WS	-	-	-	10?	-	-
1954-A460	2434958.50	1954 Aug 04	Nike Ajax	-	2455R	Nike 360R	-	-	-	WS	-	-	-	10?	-	-
1954-A464	2434960.50	1954 Aug 06	Nike Ajax	-	2822T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A465	2434960.50	1954 Aug 06	Nike Ajax	-	2756T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A470	2434965.50	1954 Aug 11	Nike Ajax	-	2775T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A471	2434965.50	1954 Aug 11	Nike Ajax	-	2540A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A472	2434965.50	1954 Aug 11	Nike Ajax	-	2527R	Nike 361R	-	-	-	WS	-	-	-	10?	-	-
1954-A473	2434965.50	1954 Aug 11	Nike Ajax	-	2776T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A476	2434967.50	1954 Aug 13	Nike Ajax	-	1156E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A477	2434971.50	1954 Aug 17	Nike Ajax	-	2564T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A479	2434972.50	1954 Aug 18	Nike Ajax	-	2825T	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A480	2434972.50	1954 Aug 18	Nike Ajax	-	2469R	Nike 362R	-	-	-	WS	-	-	-	10?	-	-
1954-A478	2434972.50	1954 Aug 18	Nike Ajax	-	2447R	Nike 363R	-	-	-	WS	-	-	-	10?	-	-
1954-A482	2434977.50	1954 Aug 23	Nike Ajax	-	2827T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A483	2434978.50	1954 Aug 24	Nike Ajax	-	2789T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A485	2434979.50	1954 Aug 25	Nike Ajax	-	2510E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A486	2434979.50	1954 Aug 25	Nike Ajax	-	2759T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A487	2434979.50	1954 Aug 25	Nike Ajax	-	2350E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A489	2434979.50	1954 Aug 25	Nike Ajax	-	2805T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A492	2434980.50	1954 Aug 26	Nike Ajax	-	2833T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A493	2434981.50	1954 Aug 27	Nike Ajax	-	2699T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A494	2434985.50	1954 Aug 31	Nike Ajax	-	2762T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A497	2434986.50	1954 Sep 01	Nike Ajax	-	2725R	Nike 368R	-	-	-	WS	-	-	-	10?	-	-
1954-A500	2434987.50	1954 Sep 02	Nike Ajax	-	2691T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A501	2434987.50	1954 Sep 02	Nike Ajax	-	2513R	Nike 369R	-	-	-	WS	-	-	-	10?	-	-
1954-A504	2434993.50	1954 Sep 08	Nike Ajax	-	2695T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A505	2434993.50	1954 Sep 08	Nike Ajax	-	2456A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A507	2434993.50	1954 Sep 08	Nike Ajax	-	2512A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A508	2434993.50	1954 Sep 08	Nike Ajax	-	2625R	Nike 370R	-	-	-	WS	-	-	-	10?	-	-
1954-A503	2434993.50	1954 Sep 08	Nike Ajax	-	2757R	Nike 371R	-	-	-	WS	-	-	-	10?	-	-
1954-A506	2434993.50	1954 Sep 08	Nike Ajax	-	2563R	Nike 372R	-	-	-	WS	-	-	-	10?	-	-
1954-A509	2434993.50	1954 Sep 08	Nike Ajax	-	2617R	Nike 373R	-	-	-	WS	-	-	-	10?	-	-
1954-A513	2434995.50	1954 Sep 10	Nike Ajax	-	2458A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A514	2434995.50	1954 Sep 10	Nike Ajax	-	2807T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A515	2434995.50	1954 Sep 10	Nike Ajax	-	2595A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A516	2434998.50	1954 Sep 13	Nike Ajax	-	2831T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A517	2434998.50	1954 Sep 13	Nike Ajax	-	2808T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A518	2434998.50	1954 Sep 13	Nike Ajax	-	2562E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A519	2434998.50	1954 Sep 13	Nike Ajax	-	2446E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A520	2434998.50	1954 Sep 13	Nike Ajax	-	2793T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A521	2434999.50	1954 Sep 14	Nike Ajax	-	2803T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A523	2435000.50	1954 Sep 15	Nike Ajax	-	2636A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A717	2435000.50	1954 Sep 15	Nike Ajax	-	1249B-2531	Nike 377R	-	-	-	WS	-	-	-	10?	-	-
1954-A527	2435000.50	1954 Sep 15	Nike Ajax	-	2823T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A528	2435005.50	1954 Sep 20	Nike Ajax	-	2802T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A534	2435007.50	1954 Sep 22	Nike Ajax	-	2797R	Nike 380R	-	-	-	WS	-	-	-	10?	-	-
1954-A535	2435007.50	1954 Sep 22	Nike Ajax	-	2715R	Nike 381R	-	-	-	WS	-	-	-	10?	-	-
1954-A541	2435008.50	1954 Sep 23	Nike Ajax	-	2826T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A542	2435008.50	1954 Sep 23	Nike	-	-	F-101A Model	-	-	-	WI	-	-	-	10?	-	-
1954-A543	2435009.50	1954 Sep 24	Nike	-	-	F23 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1954-A544	2435012.50	1954 Sep 27	Nike Ajax	-	3644A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A554	2435014.50	1954 Sep 29	Nike Ajax	-	2787R	Nike 384R	-	-	-	WS	-	-	-	10?	-	-
1954-A553	2435014.50	1954 Sep 29	Nike Ajax	-	2809T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A556	2435016.50	1954 Oct 01	Nike Ajax	-	1363T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A558	2435019.50	1954 Oct 04	Nike Ajax	-	3305T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A560	2435021.50	1954 Oct 06	Nike Ajax	-	2791T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A561	2435022.50	1954 Oct 07	Nike Ajax	-	2760T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A563	2435023.50	1954 Oct 08	Nike Ajax	-	3311T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A564	2435023.50	1954 Oct 08	Nike Ajax	-	3306T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A571	2435028.50	1954 Oct 13	Nike Ajax	-	3101R	Nike 385R	-	-	-	WS	-	-	-	10?	-	-
1954-A570	2435028.50	1954 Oct 13	Nike Ajax	-	2783R	Nike 386R	-	-	-	WS	-	-	-	10?	-	-
1954-A572	2435028.50	1954 Oct 13	Nike Ajax	-	2834T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A577	2435030.35	1954 Oct 14 2024	Nike Nike HPAG	-	-	Stability Test	-	-	-	WI	-	-	-	10?	-	-
1954-S77	2435030.39	1954 Oct 14 2120	Nike Nike T40 T55	-	-	Hypersonic Test	-	-	-	WI	-	-	-	352	-	-
1954-M02	2435030.42	1954 Oct 14 2212	Nike Nike T40	-	-	F40 Heat Transfer	-	-	-	WI	-	-	-	50?	-	-
1954-A575	2435029.50	1954 Oct 14	Nike Ajax	-	2798T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A576	2435029.50	1954 Oct 14	Nike Ajax	-	3323T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A579	2435033.50	1954 Oct 18	Nike Ajax	-	3326T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A585	2435035.50	1954 Oct 20	Nike Ajax	-	2987R	Nike 387R	-	-	-	WS	-	-	-	10?	-	-
1954-A586	2435035.50	1954 Oct 20	Nike Ajax	-	3337T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A587	2435035.50	1954 Oct 20	Nike Ajax	-	2443R	Nike 388R	-	-	-	WS	-	-	-	10?	-	-
1954-A592	2435040.50	1954 Oct 25	Nike Ajax	-	3282T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A595	2435042.50	1954 Oct 27	Nike Ajax	-	2557R	Nike 389R	-	-	-	WS	-	-	-	10?	-	-
1954-A596	2435042.50	1954 Oct 27	Nike Ajax	-	2799R	Nike 390R	-	-	-	WS	-	-	-	10?	-	-
1954-A594	2435042.50	1954 Oct 27	Nike Ajax	-	2909R	Nike 391R	-	-	-	WS	-	-	-	10?	-	-
1954-A599	2435043.50	1954 Oct 28	Nike Ajax	-	2821T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A601	2435047.50	1954 Nov 01	Nike Ajax	-	3316T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A605	2435049.50	1954 Nov 03	Nike Ajax	-	2785R	Nike 392R	-	-	-	WS	-	-	-	10?	-	-
1954-A608	2435050.50	1954 Nov 04	Nike Ajax	-	2835T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A609	2435050.50	1954 Nov 04	Nike Ajax	-	3255T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A611	2435051.50	1954 Nov 05	Nike Ajax	-	2608A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A612	2435054.50	1954 Nov 08	Nike Ajax	-	2766A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A613	2435054.50	1954 Nov 08	Nike Ajax	-	2586E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A614	2435054.50	1954 Nov 08	Nike Ajax	-	2708E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A615	2435054.50	1954 Nov 08	Nike Ajax	-	2813A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A618	2435055.50	1954 Nov 09	Nike Ajax	-	1470E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A619	2435055.50	1954 Nov 09	Nike Ajax	-	1670E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A620	2435055.50	1954 Nov 09	Nike Ajax	-	3331T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A622	2435056.50	1954 Nov 10	Nike Ajax	-	2817R	Nike 393R	-	-	-	WS	-	-	-	10?	-	-
1954-A624	2435056.50	1954 Nov 10	Nike Ajax	-	2801T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A625	2435056.50	1954 Nov 10	Nike Ajax	-	2750A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A627	2435056.50	1954 Nov 10	Nike Ajax	-	2811R	Nike 394R	-	-	-	WS	-	-	-	10?	-	-
1954-A626	2435056.50	1954 Nov 10	Nike Ajax	-	2969R	Nike 395R	-	-	-	WS	-	-	-	10?	-	-
1954-A623	2435056.50	1954 Nov 10	Nike Ajax	-	2535R	Nike 396R	-	-	-	WS	-	-	-	10?	-	-
1954-A628	2435057.50	1954 Nov 11	Nike Ajax	-	3320T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A629	2435058.50	1954 Nov 12	Nike Ajax	-	2777T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A634	2435062.50	1954 Nov 16	Nike Ajax	-	2786A	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A638	2435063.50	1954 Nov 17	Nike Ajax	-	3492T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A639	2435063.50	1954 Nov 17	Nike Ajax	-	1327R	Nike 397R	-	-	-	WS	-	-	-	10?	-	-
1954-A640	2435063.50	1954 Nov 17	Nike Ajax	-	2995R	Nike 398R	-	-	-	WS	-	-	-	10?	-	-
1954-A637	2435063.50	1954 Nov 17	Nike Ajax	-	3001R	Nike 399R	-	-	-	WS	-	-	-	10?	-	-
1954-A636	2435063.50	1954 Nov 17	Nike Ajax	-	2939R	Nike 400R	-	-	-	WS	-	-	-	10?	-	-
1954-A645	2435065.50	1954 Nov 19	Nike Ajax	-	3249T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A646	2435065.50	1954 Nov 19	Nike Ajax	-	3329T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A647	2435065.50	1954 Nov 19	Nike Ajax	-	3310T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A648	2435065.50	1954 Nov 19	Nike Ajax	-	2800E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A651	2435068.50	1954 Nov 22	Nike Ajax	-	3270T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A654	2435069.50	1954 Nov 23	Nike Ajax	-	2816E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A655	2435069.50	1954 Nov 23	Nike Ajax	-	3536T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A656	2435069.50	1954 Nov 23	Nike Ajax	-	1242E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A661	2435070.50	1954 Nov 24	Nike Ajax	-	3095R	Nike 401R	-	-	-	WS	-	-	-	10?	-	-
1954-A662	2435070.50	1954 Nov 24	Nike Ajax	-	3019R	Nike 402R	-	-	-	WS	-	-	-	10?	-	-
1954-A659	2435070.50	1954 Nov 24	Nike Ajax	-	2999R	Nike 403R	-	-	-	WS	-	-	-	10?	-	-
1954-A660	2435070.50	1954 Nov 24	Nike Ajax	-	2819R	Nike 404R	-	-	-	WS	-	-	-	10?	-	-
1954-A666	2435077.50	1954 Dec 01	Nike Ajax	-	3075R	Nike 405R	-	-	-	WS	-	-	-	10?	-	-
1954-A668	2435077.50	1954 Dec 01	Nike Ajax	-	3089R	Nike 406R	-	-	-	WS	-	-	-	10?	-	-
1954-A718	2435077.50	1954 Dec 1	Nike Ajax	-	3109R	Nike 407R	-	-	-	WS	-	-	-	10?	-	-
1954-A667	2435077.50	1954 Dec 01	Nike Ajax	-	2525R	Nike 408R	-	-	-	WS	-	-	-	10?	-	-
1954-A669	2435077.50	1954 Dec 01	Nike Ajax	-	2794A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A670	2435078.50	1954 Dec 02	Nike Ajax	-	2774A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A671	2435078.50	1954 Dec 02	Nike Ajax	-	3321T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A672	2435079.50	1954 Dec 03	Nike Ajax	-	3314T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A675	2435082.50	1954 Dec 06	Nike Ajax	-	2574E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A676	2435082.50	1954 Dec 06	Nike Ajax	-	1240E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A677	2435082.50	1954 Dec 06	Nike Ajax	-	2820A	-	-	-	-	WS	-	-	-	10?	-	-
1954-A678	2435082.50	1954 Dec 06	Nike Ajax	-	3518T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A679	2435083.50	1954 Dec 07	Nike Ajax	-	3317T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A681	2435084.50	1954 Dec 08	Nike Ajax	-	3315T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A682	2435084.50	1954 Dec 08	Nike Ajax	-	2959R	Nike 409R	-	-	-	WS	-	-	-	10?	-	-
1954-A683	2435084.50	1954 Dec 08	Nike Ajax	-	3099R	Nike 410R	-	-	-	WS	-	-	-	10?	-	-
1954-A684	2435085.50	1954 Dec 09	Nike Ajax	-	2772T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A685	2435086.50	1954 Dec 10	Nike Ajax	-	3333T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A686	2435086.50	1954 Dec 10	Nike Ajax	-	3324T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A687	2435086.50	1954 Dec 10	Nike Ajax	-	2810E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A688	2435086.50	1954 Dec 10	Nike Ajax	-	2818E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A690	2435087.50	1954 Dec 11	Nike Ajax	-	1498T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A691	2435088.50	1954 Dec 12	Nike Ajax	-	1505T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A692	2435088.50	1954 Dec 12	Nike Ajax	-	3272T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A696	2435089.50	1954 Dec 13	Nike Ajax	-	1513T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A697	2435089.50	1954 Dec 13	Nike Ajax	-	1497T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A700	2435090.50	1954 Dec 14	Nike Ajax	-	1514T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A701	2435090.50	1954 Dec 14	Nike Ajax	-	1516T	-	-	-	-	WS	-	-	-	10?	-	-
1954-A703	2435091.50	1954 Dec 15	Nike Ajax	-	1249B-3897	Nike 411R	-	-	-	WS	-	-	-	10?	-	-
1954-A704	2435091.50	1954 Dec 15	Nike Ajax	-	3031R	Nike 412R	-	-	-	WS	-	-	-	10?	-	-
1954-A705	2435091.50	1954 Dec 15	Nike Ajax	-	2792E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A706	2435091.50	1954 Dec 15	Nike Ajax	-	2804E	-	-	-	-	WS	-	-	-	10?	-	-
1954-A02	2434742.50	1954?	Nike Deacon	1	-	-	-	-	-	WI	-	-	-	10?	-	-
1955-A03	2435112.50	1955 Jan 05	Nike Ajax	-	2814A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A04	2435112.50	1955 Jan 5	Nike	-	-	F23 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1955-A05	2435113.50	1955 Jan 06	Nike Ajax	-	3090R	-	-	-	-	WS	-	-	-	10?	-	-
1955-A06	2435113.50	1955 Jan 06	Nike Ajax	-	3091R	Nike 413R	-	-	-	WS	-	-	-	10?	-	-
1955-A07	2435113.50	1955 Jan 06	Nike Ajax	-	2608A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A08	2435113.50	1955 Jan 06	Nike Ajax	-	2796A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A10	2435113.50	1955 Jan 06	Nike Ajax	-	3088R	Nike 414R	-	-	-	WS	-	-	-	10?	-	-
1955-A09	2435113.50	1955 Jan 06	Nike Ajax	-	3090R	Nike 415R	-	-	-	WS	-	-	-	10?	-	-
1955-A13	2435119.50	1955 Jan 12	Nike	-	-	Wing drag model	-	-	-	WI	-	-	-	10?	-	-
1955-A16	2435120.50	1955 Jan 13	Nike Ajax	-	2771T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A19	2435124.50	1955 Jan 17	Nike Ajax	-	3307T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A24	2435125.50	1955 Jan 18	Nike Ajax	-	3096R	Nike 416R	-	-	-	WS	-	-	-	10?	-	-
1955-A25	2435125.50	1955 Jan 18	Nike Ajax	-	3102R	Nike 417R	-	-	-	WS	-	-	-	10?	-	-
1955-A26	2435125.50	1955 Jan 18	Nike Ajax	-	3044R	Nike 418R	-	-	-	WS	-	-	-	10?	-	-
1955-A27	2435125.50	1955 Jan 18	Nike Ajax	-	3105R	-	-	-	-	WS	-	-	-	10?	-	-
1955-A31	2435126.50	1955 Jan 19	Nike Ajax	-	1526T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A32	2435126.50	1955 Jan 19	Nike Ajax	-	1673E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A33	2435126.50	1955 Jan 19	Nike Ajax	-	1650E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A34	2435127.50	1955 Jan 20	Nike Ajax	-	1518T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A39	2435128.50	1955 Jan 21	Nike Ajax	-	1486T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A40	2435128.50	1955 Jan 21	Nike Ajax	-	1252E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A41	2435128.50	1955 Jan 21	Nike Ajax	-	2828E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A42	2435131.50	1955 Jan 24	Nike Ajax	-	1530T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A47	2435132.50	1955 Jan 25	Nike Ajax	-	3267T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A48	2435132.50	1955 Jan 25	Nike Ajax	-	2882E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A49	2435133.50	1955 Jan 26	Nike Ajax	-	T 1532	-	-	-	-	WS	-	-	-	10?	-	-
1955-A53	2435134.50	1955 Jan 27	Nike Ajax	-	1947T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A54	2435134.50	1955 Jan 27	Nike Ajax	-	1416A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A58	2435135.50	1955 Jan 28	Nike Ajax	-	1960T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A59	2435135.50	1955 Jan 28	Nike Ajax	-	1481T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A60	2435135.50	1955 Jan 28	Nike Ajax	-	2838A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A61	2435135.50	1955 Jan 28	Nike Ajax	-	2790A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A64	2435139.50	1955 Feb 01	Nike Ajax	-	2812E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A65	2435139.50	1955 Feb 01	Nike Ajax	-	2866E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A66	2435140.50	1955 Feb 02	Nike Ajax	-	3328T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A68	2435141.50	1955 Feb 03	Nike Ajax	-	1483T	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A69	2435141.50	1955 Feb 03	Nike Ajax	-	1887T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A70	2435142.50	1955 Feb 04	Nike Ajax	-	1488T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A71	2435142.50	1955 Feb 04	Nike Ajax	-	1543T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A72	2435142.50	1955 Feb 04	Nike Ajax	-	3640T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A73	2435142.50	1955 Feb 04	Nike Ajax	-	1822T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A74	2435143.50	1955 Feb 05	Nike Ajax	-	1833T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A75	2435144.50	1955 Feb 06	Nike Ajax	-	1854T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A76	2435144.50	1955 Feb 06	Nike Ajax	-	1506T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A77	2435144.50	1955 Feb 06	Nike Ajax	-	1933T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A78	2435145.50	1955 Feb 07	Nike Ajax	-	1823T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A79	2435145.50	1955 Feb 07	Nike Ajax	-	1537T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A83	2435146.50	1955 Feb 08	Nike Ajax	-	1945T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A84	2435146.50	1955 Feb 08	Nike Ajax	-	2932E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A85	2435147.50	1955 Feb 09	Nike Ajax	-	1953T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A86	2435147.50	1955 Feb 09	Nike Ajax	-	3098R	Nike 419R	-	-	-	WS	-	-	-	10?	-	-
1955-A88	2435148.38	1955 Feb 9 2106	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1955-A89	2435148.39	1955 Feb 9 2119	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1955-A90	2435148.50	1955 Feb 10	Nike Ajax	-	1502T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A94	2435149.50	1955 Feb 11	Nike Ajax	-	1942T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A95	2435150.50	1955 Feb 12	Nike Ajax	-	1739T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A96	2435151.50	1955 Feb 13	Nike Ajax	-	1892T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A97	2435151.50	1955 Feb 13	Nike Ajax	-	1618T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A98	2435152.50	1955 Feb 14	Nike Ajax	-	1578T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A99	2435152.50	1955 Feb 14	Nike Ajax	-	1795T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A100	2435153.50	1955 Feb 15	Nike Ajax	-	1722T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A103	2435154.50	1955 Feb 16	Nike Ajax	-	4249E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A106	2435154.50	1955 Feb 16	Nike Ajax	-	2950R	Nike 420R	-	-	-	WS	-	-	-	10?	-	-
1955-A102	2435154.50	1955 Feb 16	Nike Ajax	-	3078R	Nike 421R	-	-	-	WS	-	-	-	10?	-	-
1955-A105	2435154.50	1955 Feb 16	Nike Ajax	-	4209R	Nike 422R	-	-	-	WS	-	-	-	10?	-	-
1955-A107	2435154.50	1955 Feb 16	Nike Ajax	-	4197R	Nike 423R	-	-	-	WS	-	-	-	10?	-	-
1955-A104	2435154.50	1955 Feb 16	Nike Ajax	-	3105R	Nike 424R	-	-	-	WS	-	-	-	10?	-	-
1955-A108	2435154.50	1955 Feb 16	Nike Ajax	-	1539T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A109	2435154.50	1955 Feb 16	Nike Ajax	-	1504T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A110	2435154.50	1955 Feb 16	Nike Ajax	-	4231E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A112	2435156.50	1955 Feb 18	Nike Ajax	-	1752T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A113	2435157.50	1955 Feb 19	Nike Ajax	-	1713T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A114	2435158.50	1955 Feb 20	Nike Ajax	-	1923T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A116	2435160.50	1955 Feb 22	Nike Ajax	-	1696T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A117	2435160.50	1955 Feb 22	Nike Ajax	-	1715T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A118	2435160.50	1955 Feb 22	Nike Ajax	-	1737T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A119	2435161.50	1955 Feb 23	Nike Ajax	-	1963T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A120	2435161.50	1955 Feb 23	Nike Ajax	-	1709T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A122	2435161.50	1955 Feb 23	Nike Ajax	-	4198E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A125	2435161.50	1955 Feb 23	Nike Ajax	-	1776T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A126	2435161.50	1955 Feb 23	Nike Ajax	-	4219R	Nike 425R	-	-	-	WS	-	-	-	10?	-	-
1955-A124	2435161.50	1955 Feb 23	Nike Ajax	-	2980R	Nike 426R	-	-	-	WS	-	-	-	10?	-	-
1955-A123	2435161.50	1955 Feb 23	Nike Ajax	-	2997R	Nike 427R	-	-	-	WS	-	-	-	10?	-	-
1955-A121	2435161.50	1955 Feb 23	Nike Ajax	-	2457R	Nike 428R	-	-	-	WS	-	-	-	10?	-	-
1955-A127	2435161.50	1955 Feb 23	Nike Ajax	-	4223E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A134	2435163.50	1955 Feb 25	Nike Ajax	-	1910T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A135	2435163.50	1955 Feb 25	Nike Ajax	-	1931T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A136	2435166.50	1955 Feb 28	Nike Ajax	-	3313T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A137	2435167.50	1955 Mar 01	Nike Ajax	-	1691T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A138	2435167.50	1955 Mar 01	Nike Ajax	-	1507T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A139	2435167.50	1955 Mar 01	Nike Ajax	-	1956T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A140	2435167.50	1955 Mar 01	Nike Ajax	-	1844T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A144	2435168.50	1955 Mar 02	Nike Ajax	-	1955T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A145	2435169.42	1955 Mar 2 2209	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1955-A147	2435169.50	1955 Mar 03	Nike Ajax	-	1751T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A148	2435169.50	1955 Mar 03	Nike Ajax	-	1711T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A149	2435169.50	1955 Mar 03	Nike Ajax	-	1726T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A150	2435169.50	1955 Mar 03	Nike Ajax	-	1613T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A151	2435170.50	1955 Mar 04	Nike Ajax	-	2763T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A152	2435170.50	1955 Mar 04	Nike Ajax	-	1517T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A153	2435170.50	1955 Mar 04	Nike Ajax	-	1904T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A154	2435170.50	1955 Mar 04	Nike Ajax	-	3309T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A155	2435170.50	1955 Mar 04	Nike Ajax	-	4211E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A156	2435170.50	1955 Mar 04	Nike Ajax	-	1644T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A157	2435171.50	1955 Mar 05	Nike Ajax	-	1764T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A158	2435174.50	1955 Mar 08	Nike Ajax	-	1976T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A159	2435174.50	1955 Mar 08	Nike Ajax	-	1899T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A160	2435174.50	1955 Mar 08	Nike Ajax	-	1741T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A163	2435175.50	1955 Mar 09	Nike Ajax	-	3097R	Nike 429R	-	-	-	WS	-	-	-	10?	-	-
1955-A164	2435175.50	1955 Mar 09	Nike Ajax	-	1702T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A165	2435175.50	1955 Mar 09	Nike Ajax	-	1727T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A166	2435175.50	1955 Mar 09	Nike Ajax	-	1886T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A167	2435175.50	1955 Mar 09	Nike Ajax	-	3014R	Nike 430R	-	-	-	WS	-	-	-	10?	-	-
1955-A168	2435175.50	1955 Mar 09	Nike Ajax	-	1927T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A169	2435175.50	1955 Mar 09	Nike Ajax	-	4351E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A170	2435176.50	1955 Mar 10	Nike Ajax	-	1975T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A171	2435176.50	1955 Mar 10	Nike Ajax	-	1753T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A172	2435176.50	1955 Mar 10	Nike Ajax	-	1949T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A173	2435176.50	1955 Mar 10	Nike	-	-	F-101A Model	-	-	-	WI	-	-	-	10?	-	-
1955-A174	2435177.32	1955 Mar 10 1942	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1955-A175	2435177.41	1955 Mar 10 2146	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1955-A176	2435177.50	1955 Mar 11	Nike Ajax	-	4199E	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A178	2435177.50	1955 Mar 11	Nike Ajax	-	3529T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A179	2435177.50	1955 Mar 11	Nike Ajax	-	1984T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A180	2435177.50	1955 Mar 11	Nike Ajax	-	1787T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A181	2435177.50	1955 Mar 11	Nike Ajax	-	1766T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A184	2435180.50	1955 Mar 14	Nike Ajax	-	1962T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A186	2435181.50	1955 Mar 15	Nike Ajax	-	1851T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A188	2435182.50	1955 Mar 16	Nike Ajax	-	1248E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A189	2435182.50	1955 Mar 16	Nike Ajax	-	1948T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A191	2435182.50	1955 Mar 16	Nike Ajax	-	2996R	Nike 431R	-	-	-	WS	-	-	-	10?	-	-
1955-A190	2435182.50	1955 Mar 16	Nike Ajax	-	3030R	Nike 432R	-	-	-	WS	-	-	-	10?	-	-
1955-A194	2435183.50	1955 Mar 17	Nike Ajax	-	1951T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A195	2435184.50	1955 Mar 18	Nike Ajax	-	1646T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A196	2435184.50	1955 Mar 18	Nike Ajax	-	1660T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A197	2435184.50	1955 Mar 18	Nike Ajax	-	1996T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A198	2435184.50	1955 Mar 18	Nike Ajax	-	1924T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A199	2435185.50	1955 Mar 19	Nike Ajax	-	1981T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A200	2435186.50	1955 Mar 20	Nike Ajax	-	1891T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A201	2435186.50	1955 Mar 20	Nike Ajax	-	1988T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A202	2435186.50	1955 Mar 20	Nike Ajax	-	1825T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A203	2435187.50	1955 Mar 21	Nike Ajax	-	1540T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A206	2435188.50	1955 Mar 22	Nike Ajax	-	1853T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A209	2435189.50	1955 Mar 23	Nike Ajax	-	3026R	Nike 433R	-	-	-	WS	-	-	-	10?	-	-
1955-A210	2435189.50	1955 Mar 23	Nike Ajax	-	4213R	Nike 434R	-	-	-	WS	-	-	-	10?	-	-
1955-A211	2435189.50	1955 Mar 23	Nike Ajax	-	2824	-	-	-	-	WS	-	-	-	10?	-	-
1955-A212	2435189.50	1955 Mar 23	Nike Ajax	-	1706T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A215	2435190.50	1955 Mar 24	Nike Ajax	-	1717T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A221	2435191.50	1955 Mar 25	Nike Ajax	-	1874T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A222	2435191.50	1955 Mar 25	Nike Ajax	-	1560T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A223	2435191.50	1955 Mar 25	Nike Ajax	-	1961T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A224	2435192.50	1955 Mar 26	Nike Ajax	-	1954T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A225	2435192.50	1955 Mar 26	Nike Ajax	-	1831T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A226	2435193.50	1955 Mar 27	Nike Ajax	-	1878T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A227	2435193.50	1955 Mar 27	Nike Ajax	-	1994T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A230	2435194.50	1955 Mar 28	Nike Ajax	-	1653T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A232	2435195.50	1955 Mar 29	Nike Ajax	-	4233	-	-	-	-	WS	-	-	-	10?	-	-
1955-A234	2435196.50	1955 Mar 30	Nike Ajax	-	1884T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A235	2435197.50	1955 Mar 31	Nike Ajax	-	1778T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A241	2435201.50	1955 Apr 04	Nike Ajax	-	1772T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A242	2435201.50	1955 Apr 04	Nike Ajax	-	1957T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A243	2435201.50	1955 Apr 04	Nike Ajax	-	1879T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A244	2435201.50	1955 Apr 04	Nike Ajax	-	1606T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A248	2435202.50	1955 Apr 05	Nike Ajax	-	1867T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A249	2435202.50	1955 Apr 05	Nike Ajax	-	1758T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A250	2435202.50	1955 Apr 05	Nike Ajax	-	1568T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A253	2435203.50	1955 Apr 06	Nike Ajax	-	1901T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A256	2435203.50	1955 Apr 06	Nike Ajax	-	4252R	Nike 435R	-	-	-	WS	-	-	-	10?	-	-
1955-A255	2435203.50	1955 Apr 06	Nike Ajax	-	4442R	Nike 436R	-	-	-	WS	-	-	-	10?	-	-
1955-A252	2435203.50	1955 Apr 06	Nike Ajax	-	4256R	Nike 437R	-	-	-	WS	-	-	-	10?	-	-
1955-A254	2435203.50	1955 Apr 06	Nike Ajax	-	4222R	Nike 438R	-	-	-	WS	-	-	-	10?	-	-
1955-A258	2435203.50	1955 Apr 06	Nike Ajax	-	1857T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A261	2435204.50	1955 Apr 07	Nike Ajax	-	1797T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A266	2435205.50	1955 Apr 8	Nike Nike Tri-Deacon T40	-	-	Heat Transfer	-	-	-	WI	-	-	-	18	-	-
1955-S27	2435206.14	1955 Apr 8 1519	Nike Deacon	-	-	DAN-1	-	-	-	WI	-	-	-	108	-	-
1955-A267	2435207.50	1955 Apr 10	Nike Ajax	-	1548T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A268	2435207.50	1955 Apr 10	Nike Ajax	-	1620T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A269	2435207.50	1955 Apr 10	Nike Ajax	-	1572T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A270	2435208.50	1955 Apr 11	Nike Ajax	-	1658T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A271	2435208.50	1955 Apr 11	Nike Ajax	-	1694T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A272	2435209.50	1955 Apr 12	Nike Ajax	-	1921T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A274	2435210.50	1955 Apr 13	Nike Ajax	-	1941T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A280	2435210.50	1955 Apr 13	Nike Ajax	-	4723R	Nike 439R	-	-	-	WS	-	-	-	10?	-	-
1955-A279	2435210.50	1955 Apr 13	Nike Ajax	-	4191R	Nike 440R	-	-	-	WS	-	-	-	10?	-	-
1955-A284	2435210.50	1955 Apr 13	Nike Ajax	-	4451R	Nike 441R	-	-	-	WS	-	-	-	10?	-	-
1955-A278	2435210.50	1955 Apr 13	Nike Ajax	-	4335R	Nike 442R	-	-	-	WS	-	-	-	10?	-	-
1955-A273	2435210.50	1955 Apr 13	Nike Ajax	-	4189R	Nike 443R	-	-	-	WS	-	-	-	10?	-	-
1955-A277	2435210.50	1955 Apr 13	Nike Ajax	-	4190R	Nike 444R	-	-	-	WS	-	-	-	10?	-	-
1955-A283	2435210.50	1955 Apr 13	Nike Ajax	-	4214R	Nike 445R	-	-	-	WS	-	-	-	10?	-	-
1955-A276	2435210.50	1955 Apr 13	Nike Ajax	-	4743R	Nike 446R	-	-	-	WS	-	-	-	10?	-	-
1955-A275	2435210.50	1955 Apr 13	Nike Ajax	-	4347R	Nike 447R	-	-	-	WS	-	-	-	10?	-	-
1955-A282	2435210.50	1955 Apr 13	Nike Ajax	-	4770R	Nike 448R	-	-	-	WS	-	-	-	10?	-	-
1955-A281	2435210.50	1955 Apr 13	Nike Ajax	-	4754R	Nike 449R	-	-	-	WS	-	-	-	10?	-	-
1955-A286	2435211.50	1955 Apr 14	Nike Ajax	-	1839T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A287	2435211.50	1955 Apr 14	Nike Ajax	-	1828T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A288	2435211.50	1955 Apr 14	Nike Ajax	-	1896T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A289	2435211.50	1955 Apr 14	Nike Ajax	-	1881T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A290	2435212.50	1955 Apr 15	Nike Ajax	-	1863T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A291	2435212.50	1955 Apr 15	Nike Ajax	-	1885T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A294	2435216.50	1955 Apr 19	Nike Ajax	-	1915T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A296	2435216.50	1955 Apr 19	Nike Ajax	-	1291R	Nike 450R	-	-	-	WS	-	-	-	10?	-	-
1955-A295	2435216.50	1955 Apr 19	Nike Ajax	-	4202R	Nike 451R	-	-	-	WS	-	-	-	10?	-	-
1955-A297	2435216.50	1955 Apr 19	Nike Ajax	-	4192R	Nike 452R	-	-	-	WS	-	-	-	10?	-	-
1955-A301	2435217.50	1955 Apr 20	Nike Ajax	-	1870T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A302	2435217.50	1955 Apr 20	Nike Ajax	-	1840T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A303	2435217.50	1955 Apr 20	Nike Ajax	-	4446A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A306	2435218.50	1955 Apr 21	Nike Ajax	-	1930T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A307	2435218.50	1955 Apr 21	Nike Ajax	-	1869T	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A308	2435218.50	1955 Apr 21	Nike Ajax	-	1841T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A310	2435218.50	1955 Apr 21	Nike Ajax	-	1855T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A311	2435219.50	1955 Apr 22	Nike Ajax	-	1883T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A312	2435219.50	1955 Apr 22	Nike Ajax	-	1784T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A313	2435223.50	1955 Apr 26	Nike Ajax	-	1762T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A314	2435223.50	1955 Apr 26	Nike Ajax	-	1794T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A315	2435223.50	1955 Apr 26	Nike Ajax	-	4204E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A317	2435224.50	1955 Apr 27	Nike Ajax	-	1597T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A318	2435224.50	1955 Apr 27	Nike Ajax	-	1919T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A319	2435224.50	1955 Apr 27	Nike Ajax	-	1800E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A321	2435225.50	1955 Apr 28	Nike Ajax	-	1834T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A322	2435225.50	1955 Apr 28	Nike Ajax	-	1654T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A323	2435225.50	1955 Apr 28	Nike Ajax	-	1664T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A324	2435225.50	1955 Apr 28	Nike Ajax	-	1874T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A325	2435225.50	1955 Apr 28	Nike Ajax	-	1893T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A327	2435226.50	1955 Apr 29	Nike Ajax	-	1837T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A328	2435226.50	1955 Apr 29	Nike Ajax	-	1905T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A329	2435229.50	1955 May 02	Nike Ajax	-	1860T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A332	2435230.50	1955 May 03	Nike Ajax	-	1918E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A333	2435230.50	1955 May 03	Nike Ajax	-	1761T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A334	2435231.50	1955 May 04	Nike Ajax	-	1533T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A335	2435231.50	1955 May 04	Nike Ajax	-	1922T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A336	2435231.50	1955 May 04	Nike Ajax	-	1738T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A338	2435232.50	1955 May 05	Nike Ajax	-	4445A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A339	2435232.50	1955 May 05	Nike Ajax	-	1888T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A341	2435233.50	1955 May 06	Nike Ajax	-	1920T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A342	2435233.50	1955 May 06	Nike Ajax	-	4782A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A343	2435234.50	1955 May 07	Nike Ajax	-	1625T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A344	2435235.50	1955 May 08	Nike Ajax	-	1615T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A345	2435235.50	1955 May 08	Nike Ajax	-	1616T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A346	2435235.50	1955 May 08	Nike Ajax	-	1630T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A347	2435235.50	1955 May 08	Nike Ajax	-	1601T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A348	2435236.50	1955 May 09	Nike Ajax	-	1600T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A352	2435238.50	1955 May 11	Nike Ajax	-	1875T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A353	2435238.50	1955 May 11	Nike Ajax	-	1868T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A354	2435238.50	1955 May 11	Nike Ajax	-	1744T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A355	2435238.50	1955 May 11	Nike	-	-	D22 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1955-A356	2435239.50	1955 May 12	Nike Ajax	-	1757T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A357	2435239.50	1955 May 12	Nike Ajax	-	4826A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A358	2435240.50	1955 May 13	Nike Ajax	-	1906T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A360	2435241.50	1955 May 14	Nike Ajax	-	1668T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A361	2435241.50	1955 May 14	Nike Ajax	-	1765T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A362	2435242.50	1955 May 15	Nike Ajax	-	1612T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A363	2435242.50	1955 May 15	Nike Ajax	-	1562T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A366	2435244.50	1955 May 17	Nike Ajax	-	1538T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A367	2435244.50	1955 May 17	Nike Ajax	-	1848T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A369	2435244.50	1955 May 17	Nike Ajax	-	1553T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A371	2435246.50	1955 May 19	Nike Ajax	-	1814T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A372	2435246.50	1955 May 19	Nike Ajax	-	1575T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A378	2435251.50	1955 May 24	Nike Ajax	-	1799T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A379	2435251.50	1955 May 24	Nike Ajax	-	1619T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A380	2435251.50	1955 May 24	Nike Ajax	-	1683T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A381	2435251.50	1955 May 24	Nike Ajax	-	5251A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A382	2435251.50	1955 May 24	Nike Ajax	-	1677T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A384	2435252.50	1955 May 25	Nike Ajax	-	1544T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A385	2435252.50	1955 May 25	Nike Ajax	-	1569T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A386	2435252.50	1955 May 25	Nike Ajax	-	1632T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A387	2435252.50	1955 May 25	Nike Ajax	-	1637T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A389	2435252.50	1955 May 25	Nike Ajax	-	4437R	Nike 453R	-	-	-	WS	-	-	-	10?	-	-
1955-A383	2435252.50	1955 May 25	Nike Ajax	-	4438R	Nike 454R	-	-	-	WS	-	-	-	10?	-	-
1955-A388	2435252.50	1955 May 25	Nike Ajax	-	4688R	Nike 455R	-	-	-	WS	-	-	-	10?	-	-
1955-A390	2435252.50	1955 May 25	Nike Ajax	-	1817T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A391	2435253.50	1955 May 26	Nike	-	-	10 deg nosecone	-	-	-	WI	-	-	-	10?	-	-
1955-A392	2435253.50	1955 May 26	Nike Ajax	-	4852A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A393	2435253.50	1955 May 26	Nike Ajax	-	1820T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A394	2435253.50	1955 May 26	Nike Ajax	-	5253A	-	-	-	-	WS	-	-	-	10?	-	-
1955-A395	2435253.50	1955 May 26	Nike Ajax	-	2788E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A396	2435253.50	1955 May 26	Nike Ajax	-	2742E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A399	2435254.50	1955 May 27	Nike Ajax	-	1890T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A403	2435258.50	1955 May 31	Nike Ajax	-	2213T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A404	2435258.50	1955 May 31	Nike Ajax	-	2248T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A407	2435259.50	1955 Jun 01	Nike Ajax	-	1582T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A408	2435259.50	1955 Jun 01	Nike Ajax	-	2317T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A409	2435259.50	1955 Jun 01	Nike Ajax	-	1439E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A410	2435259.50	1955 Jun 01	Nike Ajax	-	2253E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A411	2435259.50	1955 Jun 01	Nike Ajax	-	1581T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A412	2435259.50	1955 Jun 01	Nike Ajax	-	2271T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A414	2435260.50	1955 Jun 02	Nike Ajax	-	1917T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A415	2435260.50	1955 Jun 02	Nike Ajax	-	1815T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A416	2435260.50	1955 Jun 02	Nike Ajax	-	2314T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A417	2435260.50	1955 Jun 02	Nike Ajax	-	2255T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A420	2435261.50	1955 Jun 03	Nike Ajax	-	2285T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A421	2435261.50	1955 Jun 03	Nike Ajax	-	4436E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A422	2435261.50	1955 Jun 03	Nike Ajax	-	3856E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A423	2435261.50	1955 Jun 03	Nike Ajax	-	2239E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A424	2435261.50	1955 Jun 03	Nike Ajax	-	1407E	-	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A426	2435265.50	1955 Jun 07	Nike Ajax	-	1781T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A427	2435265.50	1955 Jun 07	Nike Ajax	-	1882T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A429	2435267.50	1955 Jun 09	Nike Ajax	-	1872T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A430	2435267.50	1955 Jun 09	Nike Ajax	-	1801T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A431	2435267.50	1955 Jun 09	Nike Ajax	-	1926T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A432	2435267.50	1955 Jun 09	Nike Ajax	-	1966T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A435	2435268.50	1955 Jun 10	Nike Ajax	-	2246T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A436	2435269.50	1955 Jun 11	Nike Ajax	-	3325T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A437	2435269.50	1955 Jun 11	Nike Ajax	-	2258T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A438	2435270.50	1955 Jun 12	Nike Ajax	-	2293T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A439	2435270.50	1955 Jun 12	Nike Ajax	-	2254T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A440	2435270.50	1955 Jun 12	Nike Ajax	-	2257T	-	-	-	-	WS	-	-	-	10?	-	-
1955-A441	2435272.40	1955 Jun 13 2131	X-17 HTV	1	Q-4	-	-	-	-	CC	LC3	-	-	1?	-	-
1955-A443	2435272.50	1955 Jun 14	Nike Ajax	-	4435E	-	-	-	-	WS	-	-	-	10?	-	-
1955-A446	2435273.50	1955 Jun 15	Nike Ajax	-	4654R	Nike 456R	-	-	-	WS	-	-	-	10?	-	-
1955-A444	2435273.50	1955 Jun 15	Nike Ajax	-	4667R	Nike 457R	-	-	-	WS	-	-	-	10?	-	-
1955-A447	2435273.50	1955 Jun 15	Nike Ajax	-	4704R	Nike 458R	-	-	-	WS	-	-	-	10?	-	-
1955-A448	2435273.50	1955 Jun 15	Nike Ajax	-	3025R	Nike 459R	-	-	-	WS	-	-	-	10?	-	-
1955-A504	2435280.50	1955 Jun 22	Nike Ajax	-	1249B-4695	Nike 460R	-	-	-	WS	-	-	-	10?	-	-
1955-A505	2435280.50	1955 Jun 22	Nike Ajax	-	1249B-5243	Nike 461R	-	-	-	WS	-	-	-	10?	-	-
1955-A450	2435282.33	1955 Jun 23 1957	X-17 HTV	-	H-1	-	-	-	-	CC	LC3	-	-	20?	-	-
1955-A451	2435281.50	1955 Jun 23	Nike Nike T40 T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	30	-	-
1955-S49	2435283.25	1955 Jun 24 1804	Nike Deacon	-	-	DAN-2 Sphere	AM7.02 ?	-	-	WI	-	-	-	105	-	-
1955-A506	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-4443	Nike 462R	-	-	-	WS	-	-	-	10?	-	-
1955-A507	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-5211	Nike 463R	-	-	-	WS	-	-	-	10?	-	-
1955-A508	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-5255	Nike 464R	-	-	-	WS	-	-	-	10?	-	-
1955-A509	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-4440	Nike 465R	-	-	-	WS	-	-	-	10?	-	-
1955-A453	2435289.32	1955 Jun 30 1941	X-17 HTV	-	H-3	-	-	-	-	CC	LC3	-	-	9	-	-
1955-A510	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1586	Nike 466R	-	-	-	WS	-	-	-	10?	-	-
1955-A511	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1974	Nike 467R	-	-	-	WS	-	-	-	10?	-	-
1955-A512	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1714	Nike 468R	-	-	-	WS	-	-	-	10?	-	-
1955-A513	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1972	Nike 469R	-	-	-	WS	-	-	-	10?	-	-
1955-A514	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1898	Nike 470R	-	-	-	WS	-	-	-	10?	-	-
1955-A457	2435303.40	1955 Jul 14 2134	X-17 HTV	-	H-2	-	-	-	-	CC	LC3	-	-	10	20	-
1955-A515	2435310.50	1955 Jul 22	Nike Ajax	-	1249B-1982	Nike 471R	-	-	-	WS	-	-	-	10?	-	-
1955-A516	2435310.50	1955 Jul 22	Nike Ajax	-	1249B-1864	Nike 472R	-	-	-	WS	-	-	-	10?	-	-
1955-A517	2435315.50	1955 Jul 27	Nike Ajax	-	1249B-1791	Nike 473R	-	-	-	WS	-	-	-	10?	-	-
1955-A518	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-5121	Nike 474R	-	-	-	WS	-	-	-	10?	-	-
1955-A519	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-5231	Nike 475R	-	-	-	WS	-	-	-	10?	-	-
1955-A520	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-4732	Nike 476R	-	-	-	WS	-	-	-	10?	-	-
1955-A521	2435329.50	1955 Aug 10	Nike Ajax	-	1249B-5123	Nike 477R	-	-	-	WS	-	-	-	10?	-	-
1955-A522	2435350.50	1955 Aug 31	Nike Ajax	-	1249B-5124	Nike 478R	-	-	-	WS	-	-	-	10?	-	-
1955-A469	2435350.50	1955 Sep	Nike	-	-	Navaho Model	-	-	-	WI	-	-	-	1?	-	-
1955-A523	2435364.50	1955 Sep 14	Nike Ajax	-	1249B-5126	Nike 479R	-	-	-	WS	-	-	-	10?	-	-
1955-A475	2435377.50	1955 Sep 27	Nike Deacon	-	-	Hemi-Cyl RV	-	-	-	WI	-	-	-	30?	-	-
1955-A524	2435378.50	1955 Sep 28	Nike Ajax	-	1249B-5136	Nike 480R	-	-	-	WS	-	-	-	10?	-	-
1955-A525	2435385.50	1955 Oct 5	Nike Ajax	-	1249B-5161	Nike 481R	-	-	-	WS	-	-	-	10?	-	-
1955-A526	2435385.50	1955 Oct 5	Nike Ajax	-	1249B-5234	Nike 482R	-	-	-	WS	-	-	-	10?	-	-
1955-A481	2435387.50	1955 Oct 7	Nike Nike T40 T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	30	-	-
1955-A527	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5237	Nike 483R	-	-	-	WS	-	-	-	10?	-	-
1955-A528	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5217	Nike 484R	-	-	-	WS	-	-	-	10?	-	-
1955-A529	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5174	Nike 485R	-	-	-	WS	-	-	-	10?	-	-
1955-A530	2435406.50	1955 Oct 26	Nike Ajax	-	1249B-5208	Nike 486R	-	-	-	WS	-	-	-	10?	-	-
1955-A531	2435413.50	1955 Nov 2	Nike Ajax	-	1249B-5651	Nike 487R	-	-	-	WS	-	-	-	10?	-	-
1955-A532	2435420.50	1955 Nov 9	Nike Ajax	-	1249B-5141	Nike 488R	-	-	-	WS	-	-	-	10?	-	-
1955-A533	2435427.50	1955 Nov 16	Nike Ajax	-	1249B-5652	Nike 489R	-	-	-	WS	-	-	-	10?	-	-
1955-A534	2435427.50	1955 Nov 16	Nike Ajax	-	1249B-5133	Nike 490R	-	-	-	WS	-	-	-	10?	-	-
1955-A535	2435429.50	1955 Nov 18	Nike Ajax	-	1249B-7024	Nike 491R	-	-	-	WS	-	-	-	10?	-	-
1955-A536	2435434.50	1955 Nov 23	Nike Ajax	-	1249B-5168	Nike 492R	-	-	-	WS	-	-	-	10?	-	-
1955-A537	2435442.50	1955 Dec 1	Nike Ajax	-	1249B-5151	Nike 493R	-	-	-	WS	-	-	-	10?	-	-
1955-A538	2435448.50	1955 Dec 7	Nike Ajax	-	1249B-5184	Nike 494R	-	-	-	WS	-	-	-	10?	-	-
1955-A539	2435455.50	1955 Dec 14	Nike Ajax	-	1249B-5860	Nike 495R	-	-	-	WS	-	-	-	10?	-	-
1955-A540	2435455.50	1955 Dec 14	Nike Ajax	-	1249B-	Nike 496R	-	-	-	WS	-	-	-	10?	-	-
1955-A497	2435455.50	1955 Dec 14	Nike	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1955-A541	2435457.50	1955 Dec 16	Nike Ajax	-	1249B-5139	Nike 497R	-	-	-	WS	-	-	-	10?	-	-
1956-A129	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-7033	Nike 498R	-	-	-	WS	-	-	-	10?	-	-
1956-A130	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-7027	Nike 499R	-	-	-	WS	-	-	-	10?	-	-
1956-A131	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-5840	Nike 500R	-	-	-	WS	-	-	-	10?	-	-
1956-A132	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-6204	Nike 501R	-	-	-	WS	-	-	-	10?	-	-
1956-A133	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-5154	Nike 502R	-	-	-	WS	-	-	-	10?	-	-
1956-A134	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-5179	Nike 503R	-	-	-	WS	-	-	-	10?	-	-
1956-A135	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-6961	Nike 504R	-	-	-	WS	-	-	-	10?	-	-
1956-A136	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-6972	Nike 505R	-	-	-	WS	-	-	-	10?	-	-
1956-A137	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-5155	Nike 506R	-	-	-	WS	-	-	-	10?	-	-
1956-A138	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-6962	Nike 507R	-	-	-	WS	-	-	-	10?	-	-
1956-A139	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-5250	Nike 508R	-	-	-	WS	-	-	-	10?	-	-
1956-A140	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5244	Nike 509R	-	-	-	WS	-	-	-	10?	-	-
1956-A141	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5252	Nike 510R	-	-	-	WS	-	-	-	10?	-	-
1956-A142	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5156	Nike 511R	-	-	-	WS	-	-	-	10?	-	-
1956-A143	2435511.50	1956 Feb 8	Nike Ajax	-	1249B-6390	Nike 512R	-	-	-	WS	-	-	-	10?	-	-
1956-A20	2435518.25	1956 Feb 14 1807	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A144	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-5160	Nike 513R	-	-	-	WS	-	-	-	10?	-	-
1956-A145	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-5224	Nike 514R	-	-	-	WS	-	-	-	10?	-	-
1956-A146	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-6717	Nike 515R	-	-	-	WS	-	-	-	10?	-	-
1956-A147	2435523.50	1956 Feb 20	Nike Ajax	-	1249B-6964	Nike 516R	-	-	-	WS	-	-	-	10?	-	-
1956-A148	2435523.50	1956 Feb 20	Nike Ajax	-	1249B-7022	Nike 517R	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A23	2435526.37	1956 Feb 22 2054	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A149	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-6188	Nike 518R	-	-	-	WS	-	-	-	10?	-	-
1956-A150	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-6162	Nike 519R	-	-	-	WS	-	-	-	10?	-	-
1956-A151	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-5687	Nike 520R	-	-	-	WS	-	-	-	10?	-	-
1956-A152	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6966	Nike 521R	-	-	-	WS	-	-	-	10?	-	-
1956-A153	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-5158	Nike 522R	-	-	-	WS	-	-	-	10?	-	-
1956-A154	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6970	Nike 523R	-	-	-	WS	-	-	-	10?	-	-
1956-A155	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6971	Nike 524R	-	-	-	WS	-	-	-	10?	-	-
1956-A156	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-5221	Nike 525R	-	-	-	WS	-	-	-	10?	-	-
1956-A157	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-5743	Nike 526R	-	-	-	WS	-	-	-	10?	-	-
1956-A158	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-6470	Nike 527R	-	-	-	WS	-	-	-	10?	-	-
1956-A24	2435532.43	1956 Feb 28 2216	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A25	2435532.44	1956 Feb 28 2227	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A159	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-5273	Nike 528R	-	-	-	WS	-	-	-	10?	-	-
1956-A160	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-6710	Nike 529R	-	-	-	WS	-	-	-	10?	-	-
1956-A161	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-5725	Nike 530R	-	-	-	WS	-	-	-	10?	-	-
1956-A26	2435537.08	1956 Mar 4 1358	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A27	2435537.09	1956 Mar 4 1406	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A28	2435537.12	1956 Mar 4 1448	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A29	2435537.12	1956 Mar 4 1459	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A30	2435537.15	1956 Mar 4 1543	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A31	2435537.16	1956 Mar 4 1553	Nike Ajax	-	-	Cold Weather Test	-	-	-	FC	-	-	-	10?	-	-
1956-A162	2435595.50	1956 May 2	Nike Ajax	-	1249B-5765	Nike 531R	-	-	-	WS	-	-	-	10?	-	-
1956-A52	2435602.50	1956 May 9	Nike	-	-	Avro Arrow Model	-	-	-	WI	-	-	-	10?	-	-
1956-A53	2435608.50	1956 May 15	Nike	-	-	Avro Arrow Model	-	-	-	WI	-	-	-	10?	-	-
1956-A54	2435608.50	1956 May 15	Nike	-	-	F4H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A60	2435631.50	1956 Jun 7	Nike Nike	-	-	E41 Model	-	-	-	WI	-	-	-	10?	-	-
1956-S37	2435631.50	1956 Jun 7	Nike Nike T40 T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	100?	-	-
1956-A163	2435638.50	1956 Jun 14	Nike Ajax	-	1249B-8951	Nike 532R	-	-	-	WS	-	-	-	10?	-	-
1956-A164	2435646.50	1956 Jun 22	Nike Ajax	-	1249B-7946	Nike 533R	-	-	-	WS	-	-	-	10?	-	-
1956-S51	2435661.25	1956 Jul 6 1800	Nike Cajun	-	N-C 1	UM AM6.01 Sphere	IGY AM6.01	-	-	WI	-	-	-	129	-	-
1956-S61	2435678.50	1956 Jul 24	Nike Cajun	-	N-C 4 (HUGO-1)	Hurricane photo	-	-	-	WI	-	-	-	112	-	-
1956-A165	2435679.50	1956 Jul 25	Nike Ajax	-	1249B-5220	Nike 534R	-	-	-	WS	-	-	-	10?	-	-
1956-A166	2435679.50	1956 Jul 25	Nike Ajax	-	1249B-5238	Nike 535R	-	-	-	WS	-	-	-	10?	-	-
1956-A167	2435686.50	1956 Aug 1	Nike Ajax	-	1249B-5771	Nike 536R	-	-	-	WS	-	-	-	10?	-	-
1956-A168	2435693.50	1956 Aug 8	Nike Ajax	-	1249B-3013	Nike 537R	-	-	-	WS	-	-	-	10?	-	-
1956-S72	2435694.46	1956 Aug 8 2300	Nike Cajun	-	N-C 2 (770A/5656)	UM AM6.30	IGY AM6.30	-	-	WS	-	-	-	100?	-	-
1956-A169	2435694.50	1956 Aug 9	Nike Ajax	-	1249B-8600	Nike 538R	-	-	-	WS	-	-	-	10?	-	-
1956-A170	2435694.50	1956 Aug 9	Nike Ajax	-	1249B-7531	Nike 539R	-	-	-	WS	-	-	-	10?	-	-
1956-S74	2435695.45	1956 Aug 9 2247	Nike Cajun	-	N-C 3 (5651/BRL)	BRL OB6.00	IGY OB6.00	-	-	WS	-	-	-	164	-	-
1956-A171	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-5778	Nike 540R	-	-	-	WS	-	-	-	10?	-	-
1956-A172	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-6949	Nike 541R	-	-	-	WS	-	-	-	10?	-	-
1956-A173	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-6978	Nike 542R	-	-	-	WS	-	-	-	10?	-	-
1956-A174	2435709.50	1956 Aug 24	Nike Ajax	-	1249B-5254	Nike 543R	-	-	-	WS	-	-	-	10?	-	-
1956-A175	2435721.50	1956 Sep 5	Nike Ajax	-	1249B-7966	Nike 544R	-	-	-	WS	-	-	-	10?	-	-
1956-A84	2435726.50	1956 Sep 10	Nike T40 T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	10?	-	-
1956-A176	2435728.50	1956 Sep 12	Nike Ajax	-	1249B-7918	Nike 545R	-	-	-	WS	-	-	-	10?	-	-
1956-A177	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-5773	Nike 546R	-	-	-	WS	-	-	-	10?	-	-
1956-A178	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-7787	Nike 547R	-	-	-	WS	-	-	-	10?	-	-
1956-A179	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-7025	Nike 549R	-	-	-	WS	-	-	-	10?	-	-
1956-A96	2435748.50	1956 Oct 2	Nike	-	-	F4H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A180	2435749.50	1956 Oct 3	Nike Ajax	-	1249B-9481	Nike 550R	-	-	-	WS	-	-	-	10?	-	-
1956-A98	2435749.50	1956 Oct 3	Nike	-	-	B-58 Model	-	-	-	WI	-	-	-	10?	-	-
1956-A100	2435751.50	1956 Oct 5	Nike Recruit	-	-	Heat Transfer	-	-	-	WI	-	-	-	4	-	-
1956-A101	2435755.50	1956 Oct 9	Nike	-	-	F23 Ramjet	-	-	-	WI	-	-	-	10?	-	-
1956-A128	2435756.50	1956 Oct 10	Nike Ajax	-	-	BTL PIT 1	-	-	-	WS	RC	-	-	10?	-	-
1956-A181	2435757.50	1956 Oct 11	Nike Ajax	-	1249B-7509	Nike 551R	-	-	-	WS	-	-	-	10?	-	-
1956-S87	2435767.42	1956 Oct 20 2201	Nike Cajun	-	N-C 13	UM AM6.31	IGY AM6.31	-	-	FC	-	-	-	113	-	-
1956-S90	2435774.39	1956 Oct 27 2124	Nike Cajun	-	N-C 8	UM AM6.08 Sphere	IGY AM6.08	-	LSD-14	USN56B	LP1	-	-	161	-	-
1956-A182	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-9946	Nike 552R	-	-	-	WS	-	-	-	10?	-	-
1956-A183	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-7930	Nike 553R	-	-	-	WS	-	-	-	10?	-	-
1956-A184	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-7460	Nike 554R	-	-	-	WS	-	-	-	10?	-	-
1956-A185	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-8601	Nike 555R	-	-	-	WS	-	-	-	10?	-	-
1956-S94	2435780.28	1956 Nov 2 1840	Nike Cajun	-	N-C 9	UM AM6.09 Sphere	IGY AM6.09	-	LSD-14	USN56B	LP2	-	-	131	-	-
1956-S95	2435782.29	1956 Nov 4 1854	Nike Cajun	-	N-C 10	UM AM6.10 Sphere	IGY AM6.09	-	LSD-14	USN56B	LP3	-	-	162	-	-
1956-A186	2435784.50	1956 Nov 7	Nike Ajax	-	1249B-7467	Nike 556R	-	-	-	WS	-	-	-	10?	-	-
1956-S97	2435785.13	1956 Nov 7 1502	Nike Cajun	-	N-C 11	UM AM6.11 Sphere	IGY AM6.11	-	LSD-14	USN56B	LP4	-	-	169	-	-
1956-S98	2435788.14	1956 Nov 10 1517	Nike Cajun	-	N-C 12	UM AM6.12 Sphere	IGY AM6.12	-	LSD-14	USN56B	LP5	-	-	161	-	-
1956-A187	2435798.50	1956 Nov 21	Nike Ajax	-	1249B-7534	Nike 560R	-	-	-	WS	-	-	-	10?	-	-
1956-A188	2435806.50	1956 Nov 29	Nike Ajax	-	1249B-6947	Nike 561R	-	-	-	WS	-	-	-	10?	-	-
1956-A118	2435814.50	1956 Dec 7	Nike Cajun	-	-	Hemi-Cyl RV	-	-	-	WI	-	-	-	30?	-	-
1956-A189	2435819.50	1956 Dec 12	Nike Ajax	-	1249B-9201	Nike 562R	-	-	-	WS	-	-	-	10?	-	-
1956-A190	2435821.50	1956 Dec 14	Nike Ajax	-	1249B-50003	Nike 564R	-	-	-	WS	-	-	-	10?	-	-
1956-A191	2435821.50	1956 Dec 14	Nike Ajax	-	1249B-50004	Nike 565R	-	-	-	WS	-	-	-	10?	-	-
1956-A192	2435826.50	1956 Dec 19	Nike Ajax	-	1249B-5170	Nike 566R	-	-	-	WS	-	-	-	10?	-	-
1957-A146	2435854.50	1957 Jan 16	Nike Ajax	-	1249B-7970	Nike 567R	-	-	-	WS	-	-	-	10?	-	-
1957-A147	2435875.50	1957 Feb 6	Nike Ajax	-	1249B-5775	Nike 572R	-	-	-	WS	-	-	-	10?	-	-
1957-A148	2435889.50	1957 Feb 20	Nike Ajax	-	1249B-7035	Nike 574R	-	-	-	WS	-	-	-	10?	-	-
1957-A145	2435910.50	1957 Mar 13	Nike Ajax	-	-	BTL PIT 100	-	-	-	WS	RC	-	-	10?	-	-
1957-A149	2435980.50	1957 May 22	Nike Ajax	-	1249B-50041	Nike 594R	-	-	-	WS	-	-	-	10?	-	-
1957-A150	2435980.50	1957 May 22	Nike Ajax	-	1249B-50042	Nike 595R	-	-	-	WS	-	-	-	10?	-	-
1957-A35	2435960.50	1957 May 2	Nike	-	-	Slender missile	-	-	-	WI	-	-	-	10?	-	-
1957-A52	2436008.50	1957 Jun 19	Nike	-	-	F4H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1957-S52	2436021.29	1957 Jul 1 1900	Nike Deacon	-	NN7.37F	NRL NN7.37F	IGY NN7.37F	-	-	SNI	-	-	-	93	-	-
1957-S53	2436023.19	1957 Jul 3 1629	Nike Deacon	-	NN7.38F	NRL NN7.38F	IGY NN7.38F	-	-	SNI	-	-	-	113	-	-
1957-A63	2436035.39	1957 Jul 15 2123	Nike Deacon	-	NN7.39F	NRL NN7.39F	IGY NN7.39F	-	-	SNI	-	-	-	28	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S65	2436043.48	1957 Jul 23 2331:52	Nike Deacon	-	NN7.40F	NRL NN7.40F	IGY NN7.40F	-	-	SNI	-	-	-	129	-	-
1957-A67	2436050.26	1957 Jul 30 1810:02	Nike Cajun	-	AM6.32	UM AM6.32	IGY AM6.32	-	-	FC	-	-	-	25	-	-
1957-A72	2436056.30	1957 Aug 5 1910	Nike Deacon	-	NN7.41F	NRL NN7.41F	IGY NN7.41F	-	-	SNI	-	-	-	14	-	-
1957-A151	2436071.50	1957 Aug 21	Nike Ajax	-	1249B-7956	Nike 600R	-	-	-	WS	-	-	-	10?	-	-
1957-A79	2436063.50	1957 Aug 13	Nike Recruit	-	-	Heat Transfer	-	-	-	WI	-	-	-	10?	-	-
1957-S91	2436071.20	1957 Aug 20 1650:04	Nike Deacon	-	NN7.42F/DAN-20	NRL NN7.42F	IGY NN7.42F	-	-	SNI	-	-	-	96	-	-
1957-S93	2436074.41	1957 Aug 23 2154:05	Nike Cajun	-	RP6.X1 igniter test	RP6.1	IGY RP6.X1	-	-	FC	-	-	-	114	-	-
1957-A84	2436074.75	1957 Aug 24 0600	Nike Cajun	-	SS6.38	Grenade test	IGY SS6.38	-	-	FC	-	-	-	1?	-	-
1957-A86	2436078.16	1957 Aug 27 1554	Nike Deacon	-	NN7.43F	NRL NN7.43F	IGY NN7.43F	-	-	SNI	-	-	-	16	-	-
1957-S97	2436078.68	1957 Aug 28 0415:03	Nike Cajun	-	II6.22F	Auroral particles	IGY II6.22F	-	-	FC	-	-	-	80?	-	-
1957-S98	2436079.35	1957 Aug 28 2021:40	Nike Deacon	-	NN7.44F	NRL NN7.44F	IGY NN7.44F	-	-	SNI	-	-	-	96	-	-
1957-S100	2436080.38	1957 Aug 29 2112:25	Nike Deacon	-	NN7.45F/DAN-23	NRL NN7.45F	IGY NN7.45F	-	-	SNI	-	-	-	113	-	-
1957-S102	2436081.71	1957 Aug 31 0457	Nike Cajun	-	II6.23F	Auroral particles	IGY II6.23F	-	-	FC	-	-	-	115	-	-
1957-A152	2436092.50	1957 Sep 11	Nike Ajax	-	1249B-5685	Nike 602R	-	-	-	WS	-	-	-	10?	-	-
1957-A96	2436094.14	1957 Sep 12 1519:30	Nike Deacon	-	NN7.46F	NRL NN7.46F	IGY NN7.46F	-	-	SNI	-	-	-	3	-	-
1957-A97	2436097.36	1957 Sep 15 2043	Nike Deacon	-	NN7.47F	NRL NN7.47F	IGY NN7.47F	-	-	SNI	-	-	-	90?	-	-
1957-A100	2436100.24	1957 Sep 18 1742	Nike Deacon	-	NN7.48F	-	IGY NN7.48F	-	-	SNI	-	-	-	21	-	-
1957-M13	2436100.25	1957 Sep 18 1754	Nike Deacon	-	NN7.49F	-	IGY NN7.49F	-	-	SNI	-	-	-	77	-	-
1957-A109	2436108.33	1957 Sep 26 2000	Nike Asp	-	NN8.50F	-	IGY NN8.50F	-	-	SNI	-	-	-	16	-	-
1957-A118	2436121.50	1957 Oct 10	Nike Recruit	-	-	Heat Transfer	-	-	-	WI	-	-	-	10?	-	-
1957-S174	2436183.23	1957 Dec 10 1735	Nike Cajun	-	OB6.02F	-	IGY OB6.02F	-	-	WS	-	-	-	145	-	-
1957-S175	2436183.26	1957 Dec 10 1812	Nike Asp	-	NN8.51F	NRL NN8.51F	IGY NN8.51F	-	-	SNI	-	-	-	169	-	-
1957-A137	2436183.40	1957 Dec 10 2136	Nike Cajun	-	SS6.39	-	IGY SS6.39	-	-	FC	-	-	-	2?	-	-
1957-A138	2436185.50	1957 Dec 13	Nike T40 T55	-	-	Heat Transfer	-	-	-	WI	-	-	-	10?	-	-
1957-A141	2436187.53	1957 Dec 15 0038	Nike Cajun	-	AM6.34	-	IGY AM6.34	-	-	FC	-	-	-	9	-	-
1957-A144	2436195.50	1957 Dec 23	Nike Cajun	-	HUGO 2	Hurricane photo	-	-	-	WI	-	-	-	10?	-	-
1958-S06	2436211.50	1958 Jan 8	Nike Asp	-	II8.35	-	-	-	-	WS	-	-	-	145	-	-
1958-A01	2436213.15	1958 Jan 9 1535	Nike Asp	-	II8.10	-	IGY II8.10	-	-	WS	-	-	-	15	-	-
1958-S11	2436229.30	1958 Jan 25 1911:05	Nike Cajun	-	AM6.02	Sphere	IGY AM6.02	-	-	FC	-	-	-	157	-	-
1958-S14	2436231.30	1958 Jan 27 1917:45	Nike Cajun	-	AM6.36	Pressure/Temp	IGY AM6.36	-	-	FC	-	-	-	129	-	-
1958-S16	2436233.30	1958 Jan 29 1906:17	Nike Cajun	-	AM6.03	Sphere	IGY AM6.03	-	-	FC	-	-	-	170	-	-
1958-S23	2436247.78	1958 Feb 13 0637:04	Nike Cajun	-	II6.24F	Auroral particles	IGY II6.24F	-	-	FC	-	-	-	129	-	-
1958-S24	2436250.76	1958 Feb 16 0616:38	Nike Cajun	-	II6.25F	Auroral particles	IGY II6.25F	-	-	FC	-	-	-	121	-	-
1958-S32	2436256.73	1958 Feb 22 0534:31	Nike Cajun	-	II6.26F	Auroral particles	IGY II6.26F	-	-	FC	-	-	-	129	-	-
1958-S34	2436258.82	1958 Feb 24 0734:42	Nike Cajun	-	AM6.37	-	IGY AM6.37	-	-	FC	-	-	-	145	-	-
1958-S36	2436259.74	1958 Feb 25 0548:32	Nike Cajun	-	II6.27F	Auroral particles	IGY II6.27F	-	-	FC	-	-	-	129	-	-
1958-A11	2436261.43	1958 Feb 26 2217:40	Nike Cajun	-	RP6.X2	Long nose cone test	IGY RP6.X2	-	-	FC	-	-	-	37	-	-
1958-S39	2436266.75	1958 Mar 4 0601:36	Nike Cajun	-	AM6.04	Sphere	IGY AM6.04	-	-	FC	-	-	-	100?	-	-
1958-S40	2436267.31	1958 Mar 4 1930:09	Nike Cajun	-	AM6.05	Sphere	IGY AM6.05	-	-	FC	-	-	-	181	-	-
1958-S42	2436280.50	1958 Mar 18	Nike Apache	-	AA5.025	-	-	-	-	WS	-	-	-	107	-	-
1958-A22	2436286.50	1958 Mar 24	Nike	-	-	F4H-1 Model	-	-	-	WI	-	-	-	10?	-	-
1958-S47	2436287.27	1958 Mar 24 1830:25	Nike Cajun	-	OB6.08	Horizon imaging	IGY OB6.08	-	-	FC	-	-	-	119	-	-
1958-S48	2436287.42	1958 Mar 24 2200	Nike Cajun	-	AM6.38	Pressure	IGY AM6.38	-	-	FC	-	-	-	137	-	-
1958-S53	2436300.50	1958 Apr 7	Nike Cajun	-	-	Hi Ball 1	-	-	-	WI	-	-	-	244	-	-
1958-S386	2436318.20	1958 Apr 24 1644	Nike Cajun	-	NC AF-1	-	-	-	-	HADC?	-	-	-	167	-	-
1958-S57	2436317.50	1958 Apr 24	Nike Cajun	-	-	Beacon Test 1	-	-	-	WI	-	-	-	122	-	-
1958-M03	2436318.50	1958 Apr 25	Nike Cajun	-	-	Beacon Test 1R	-	-	-	WI	-	-	-	73	-	-
1958-S60	2436325.02	1958 May 1 1233	Nike Cajun	-	NC AF-2	-	-	-	-	HADC	-	-	-	137	-	-
1958-S65	2436343.91	1958 May 20 0943:35	Nike Cajun	-	-	Release 2 Cs/Na	-	-	-	HADC	-	-	-	101	-	-
1958-S67	2436344.98	1958 May 21 1131:59	Nike Cajun	-	-	Release 3 Cs/Na	-	-	-	HADC	-	-	-	128	-	-
1958-S69	2436345.54	1958 May 22 0057	Nike Cajun	-	-	Hi Ball 2	-	-	-	WI	-	-	-	240	-	-
1958-S68	2436345.98	1958 May 22 1129:59	Nike Cajun	-	-	Release 4 (Na)	-	-	-	HADC	-	-	-	116	-	-
1958-S71	2436348.50	1958 May 25	Nike Cajun	-	-	Beacon Test 2	-	-	-	WI	-	-	-	122	-	-
1958-S385	2436353.60	1958 May 30 0231	Nike Cajun	-	SS6.49	Grenades	IGY SS6.49	-	-	WS	-	-	-	100	-	-
1958-A50	2436359.50	1958 Jun 5	Nike Ajax	-	-	Control test	-	-	-	WI	-	-	-	20	-	-
1958-S94	2436392.29	1958 Jul 7 1850:28	Nike Cajun	-	OB6.09	Horizon imaging	IGY OB6.09	-	-	FC	-	-	-	121	-	-
1958-S95	2436392.47	1958 Jul 7 2318	Nike Asp	-	NN8.52F	-	IGY NN8.52F	-	-	SNI	-	-	-	225?	-	-
1958-S96	2436393.47	1958 Jul 8 2315	Nike Asp	-	NN8.53F	-	IGY NN8.53F	-	-	SNI	-	-	-	225	-	-
1958-S99	2436397.35	1958 Jul 12 2030:00	Nike Cajun	-	OB6.10	Horizon imaging	IGY OB6.10	-	-	FC	-	-	-	114	-	-
1958-S101	2436400.34	1958 Jul 15 2007:31	Nike Cajun	-	AM6.39	-	IGY AM6.39	-	-	FC	-	-	-	126	-	-
1958-S102	2436401.44	1958 Jul 16 2240:28	Nike Cajun	-	OB6.04	B/ne probe	IGY OB6.04	-	-	FC	-	-	-	142	-	-
1958-S103	2436401.81	1958 Jul 17 0721:41	Nike Cajun	-	AA6.15	-	IGY AA6.15	-	-	FC	-	-	-	169	-	-
1958-S105	2436402.24	1958 Jul 17 1748	Nike Asp	-	NN8.54F	-	IGY NN8.54F	-	-	SNI	-	-	-	225	-	-
1958-S109	2436409.71	1958 Jul 25 0501	Nike Asp	-	NN8.55F	-	IGY NN8.55F	-	-	SNI	-	-	-	200?	-	-
1958-S110	2436413.71	1958 Jul 29 0503	Nike Asp	-	NN8.56F	-	IGY NN8.56F	-	-	SNI	-	-	-	200?	-	-
1958-S388	2436416.50	1958 Aug 1	Nike Asp	-	-	TEAK Falling Sphere	HARDTACK Project 9.1d	-	-	JI	-	-	-	90?	-	-
1958-S389	2436416.50	1958 Aug 1	Nike Asp	-	-	TEAK Falling Sphere	HARDTACK Project 9.1d	-	-	JI	-	-	-	90?	-	-
1958-S390	2436416.50	1958 Aug 1	Nike Asp	-	-	TEAK Falling Sphere	HARDTACK Project 9.1d	-	-	JI	-	-	-	90?	-	-
1958-S391	2436416.50	1958 Aug 1	Nike Asp	-	-	TEAK Falling Sphere	HARDTACK Project 9.1d	-	-	JI	-	-	-	90?	-	-
1958-S161	2436430.06	1958 Aug 14 1328	Nike Cajun	-	OB6.01F	-	IGY OB6.01F	-	-	WS	-	-	-	132	-	-
1958-A111	2436454.50	1958 Sep 8	Nike	-	-	E15 Model/Loki	-	-	-	WI	-	-	-	10?	-	-
1958-S196	2436458.49	1958 Sep 11 2352	Nike Cajun	-	-	Beacon Test 3	-	-	-	WI	-	-	-	122	-	-
1958-S198	2436462.19	1958 Sep 15 1632:00	Nike Cajun	-	-	Release 5 (Cs)	-	-	-	HADC	-	-	-	82	-	-
1958-S199	2436463.19	1958 Sep 16 1631:00	Nike Cajun	-	-	Release 6 (Cs) 69km	-	-	-	HADC	-	-	-	80?	-	-
1958-A119	2436464.50	1958 Sep 18	Nike Cajun	-	-	Polaris RV model	-	-	-	WI	-	-	-	9	-	-
1958-S201	2436465.20	1958 Sep 18 1649:58	Nike Cajun	-	-	Release 7 (Cs)	-	-	-	HADC	-	-	-	91	-	-
1958-S208	2436475.32	1958 Sep 28 1942	Nike Asp	-	NN8.57F	-	IGY NN8.57F	-	LSD-31	USN58C	LP1	-	-	225	-	-
1958-M15	2436478.32	1958 Oct 1 1942	Nike Asp	-	NN8.58F	-	IGY NN8.58F	-	LSD-31	USN58C	LP1	-	-	56	-	-
1958-S215	2436483.50	1958 Oct 7	Nike Cajun	-	-	Hi Ball 3	-	-	-	WI	-	-	-	244	-	-
1958-S220	2436489.31	1958 Oct 12 1932:06	Nike Asp	-	NN8.59F	-	IGY NN8.59F	-	LSD-31	USN58C	LP1	-	-	222	-	-
1958-S221	2436489.32	1958 Oct 12 1942:03	Nike Asp	-	NN8.60F	-	IGY NN8.60F	-	LSD-31	USN58C	LP1	-	-	236	-	-
1958-S222	2436489.32	1958 Oct 12 1943:18	Nike Asp	-	NN8.61F	-	IGY NN8.61F	-	LSD-31	USN58C	LP1	-	-	242	-	-
1958-S223	2436489.33	1958 Oct 12 1952:49	Nike Asp	-	NN8.62F	-	IGY NN8.62F	-	LSD-31	USN58C	LP1	-	-	240	-	-
1958-S224	2436489.34	1958 Oct 12 2010:09	Nike Asp	-	NN8.63F	-	IGY NN8.63F	-	LSD-31	USN58C	LP1	-	-	88	-	-
1958-S225	2436490.32	1958 Oct 13 1939:56	Nike Asp	-	NN8.64F	-	IGY NN8.64F	-	LSD-31	USN58C	LP1	-	-	225	-	-
1958-S226	2436491.00	1958 Oct 14 1200:42	Nike Cajun	-	AA6.204	-	IGY AA6.204	-	-	FC	-	-	-	137	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-S229	2436491.67	1958 Oct 15 0400:01	Nike Cajun	-	AA6.203	-	IGY AA6.203	-	-	FC	-	-	-	151	-	-
1958-S232	2436494.64	1958 Oct 18 0325:06	Nike Cajun	-	AA6.205	-	IGY AA6.205	-	-	FC	-	-	-	143	-	-
1958-S233	2436497.42	1958 Oct 20 2201:01	Nike Cajun	-	ABM6.207	Ionospheric Te	IGY ABM6.207	-	-	FC	-	-	-	130	-	-
1958-S234	2436498.66	1958 Oct 22 0345:00	Nike Cajun	-	AA6.206	-	IGY AA6.206	-	-	FC	-	-	-	158	-	-
1958-S235	2436499.10	1958 Oct 22 1422	Nike Asp	-	II8.11	-	IGY II8.11	-	-	WS	-	-	-	10?	-	-
1958-S243	2436508.36	1958 Oct 31 2036:19	Nike Cajun	-	OB6.11	Arctic cloud cover	IGY OB6.11	-	-	FC	-	-	-	119	-	-
1958-S249	2436512.20	1958 Nov 4 1650:24	Nike Cajun	-	OB6.12	Arctic cloud cover	IGY OB6.12	-	-	FC	-	-	-	122	-	-
1958-S254	2436515.58	1958 Nov 8 0153:19	Nike Cajun	-	CC6.01	IR airglow	IGY CC6.01	-	-	FC	-	-	-	139	-	-
1958-M18	2436519.99	1958 Nov 12 1140	Nike Cajun	-	SS6.52	Grenades	IGY SS6.52F	-	-	GUAM	-	-	-	74	-	-
1958-S255	2436520.87	1958 Nov 13 0859:05	Nike Cajun	-	CC6.02	IR airglow	IGY CC6.02	-	-	FC	-	-	-	142	-	-
1958-S256	2436521.23	1958 Nov 13 1734:06	Nike Cajun	-	OB6.13	Arctic cloud cover	IGY OB6.13F	-	-	FC	-	-	-	119	-	-
1958-M19	2436521.97	1958 Nov 14 1109:43	Nike Cajun	-	SS6.53	Grenades	IGY SS6.53F	-	-	GUAM	-	-	-	75	-	-
1958-S260	2436526.20	1958 Nov 18 1646:51	Nike Cajun	-	OB6.14	Arctic cloud cover	IGY OB6.14F	-	-	FC	-	-	-	116	-	-
1958-M20	2436527.25	1958 Nov 19 1801:40	Nike Cajun	-	SS6.54	Grenades	IGY SS6.54F	-	-	GUAM	-	-	-	71	-	-
1958-S262	2436527.41	1958 Nov 19 2150:54	Nike Cajun	-	OB6.06	B/ne probe	IGY OB6.06F	-	-	FC	-	-	-	140	-	-
1958-M23	2436528.11	1958 Nov 20 1438:40	Nike Cajun	-	SS6.55	Grenades	IGY SS6.55F	-	-	GUAM	-	-	-	69	-	-
1958-S266	2436529.92	1958 Nov 22 0957:59	Nike Cajun	-	SS6.56	Grenades	IGY SS6.56F	-	-	GUAM	-	-	-	85	-	-
1958-S267	2436531.42	1958 Nov 23 2202	Nike Cajun	-	AA6.16	Atm. p,rho, Sphere	IGY AA6.16	-	-	FC	-	-	-	131	-	-
1958-A151	2436531.83	1958 Nov 24 0800	Nike Cajun	-	AA6.17	Atm p,rho, Sphere	IGY AA6.17	-	-	FC	-	-	-	13	-	-
1958-M25	2436532.23	1958 Nov 24 1727:18	Nike Cajun	-	SS6.58	Grenades	IGY SS6.58F	-	-	GUAM	-	-	-	79	-	-
1958-S275	2436538.44	1958 Nov 30 2227:01	Nike Cajun	-	IGY OB6.15	B/ne probe	IGY OB6.15F	-	-	FC	-	-	-	152	-	-
1958-S281	2436542.50	1958 Dec 5	Nike Cajun	-	HUGO 3	Weather photo	-	-	-	WI	-	-	-	100?	-	-
1958-S282	2436542.50	1958 Dec 5	Nike Cajun	-	HUGO 4	Weather photo	-	-	-	WI	-	-	-	100?	-	-
1959-A268	2436568.50	1959	Mach 5 TV	-	-	M5TV Flight 15	-	-	-	TTR	-	-	-	16	-	-
1959-S10	2436596.50	1959 Jan 28	Nike Cajun	-	-	Beacon Test 4	-	-	-	WI	-	-	-	122	-	-
1959-A213	2436638.29	1959 Mar 10 1900	Nike	-	-	Cree Test 28-1	Cree III	-	-	EGL	A-11	-	-	10	-	-
1959-A56	2436658.50	1959 Apr	Nike Nike Cajun	-	F40	F40 Heat transfer	-	-	-	WI	-	-	-	45?	-	-
1959-S54	2436681.31	1959 Apr 22 1929	Nike Cajun	-	AA6.182C	-	-	-	-	HADC	-	-	-	100?	-	-
1959-A214	2436682.23	1959 Apr 23 1728	Nike Nike	-	-	Cree Test 29-2	Cree III	-	-	EGL	A-11	-	-	21	-	-
1959-M15	2436709.54	1959 May 21 0100	Nike Cajun	-	II6.20F	-	IGY II6.20F	-	-	WI	-	-	-	73	-	-
1959-M16	2436712.10	1959 May 23 1430	Nike Cajun	-	II6.21F	-	IGY II6.21F	-	-	WI	-	-	-	73	-	-
1959-S76	2436715.70	1959 May 27 0451	Nike Cajun	-	AA6.161C	-	-	-	-	WS	-	-	-	169	-	-
1959-S77	2436716.33	1959 May 27 1955	Nike Cajun	-	AA6.162C	-	-	-	-	WS	-	-	-	177	-	-
1959-A101	2436737.50	1959 Jun 18	Nike Recruit	-	-	Mercury model	-	-	-	WI	-	-	-	10?	-	-
1959-A215	2436738.50	1959 Jun 19	Nike Nike	-	-	Cree Test 30-3	Cree III	-	-	EGL	A-11	-	-	20	-	-
1959-M20	2436747.05	1959 Jun 27 1308	Nike Cajun	-	II6.31F	-	IGY II6.31F	-	-	WS	-	-	-	61	-	-
1959-S101	2436749.50	1959 Jun 30	Nike Cajun	-	ABME6.208	Dumbbell probe	-	-	-	WI	-	-	-	83	-	-
1959-S102	2436750.50	1959 Jul 1	Nike Cajun	-	ABME6.209	Tetrahedron probe	-	-	-	WI	-	-	-	99	-	-
1959-A216	2436760.03	1959 Jul 10 1245	Nike Nike	-	-	Cree Test 31-4	Cree III	-	-	EGL	A-11	-	-	20	-	-
1959-S109	2436764.24	1959 Jul 14 1745	Nike Asp	-	NN8.65	NRL Sunflare 1	-	-	-	PA	LC-A	-	-	200?	-	-
1959-A118	2436767.24	1959 Jul 17 1740	Nike Asp	-	NN8.66	NRL Sunflare 2	-	-	-	PA	LC-A	-	-	10?	-	-
1959-S125	2436774.19	1959 Jul 24 1634	Nike Asp	-	NN8.67	NRL Sunflare 3	-	-	-	PA	LC-A	-	-	227	-	-
1959-A131	2436784.50	1959 Aug 4	Nike Recruit	-	-	Mercury model	-	-	-	WI	-	-	-	10?	-	-
1959-S137	2436788.21	1959 Aug 7 1705	Nike Asp	-	NN8.68CF	NRL Sunflare 4	-	-	-	PA	LC-A	-	-	225	-	-
1959-S142	2436795.17	1959 Aug 14 1600	Nike Asp	-	NN8.69CF	NRL Sunflare 5	-	-	-	PA	LC-A	-	-	237	-	-
1959-S143	2436797.89	1959 Aug 17 0918	Nike Asp	-	NASA 03.13CA	GCA Release 1 Na	-	-	-	WI	-	-	-	236	-	-
1959-A140	2436799.52	1959 Aug 19 0034	Nike Asp	-	NASA 03.14CA	GCA Release 2 Na	-	-	-	WI	-	-	-	30	-	-
1959-S146	2436802.60	1959 Aug 22 0230	Nike Asp	-	NN8.70CF	NRL Sunflare 6	-	-	-	PA	LC-A	-	-	200?	-	-
1959-S148	2436805.45	1959 Aug 24 2247	Nike Asp	-	NN8.71CF	NRL Sunflare 7	-	-	-	PA	LC-A	-	-	200?	-	-
1959-S155	2436809.17	1959 Aug 28 1610	Nike Asp	-	NN8.72CF	NRL Sunflare 8	-	-	-	PA	LC-A	-	-	214	-	-
1959-S157	2436812.45	1959 Aug 31 2253	Nike Asp	-	NN8.73CF	NRL Sunflare 9	Sunflare II	-	-	PA	LC-A	-	-	200?	-	-
1959-S158	2436812.54	1959 Sep 1 0101	Nike Asp	-	NN8.74CF	NRL Sunflare 10	-	-	-	PA	LC-A	-	-	200?	-	-
1959-S159	2436813.29	1959 Sep 1 1900	Nike Asp	-	NN8.75CF	NRL Sunflare 11	-	-	-	PA	LC-A	-	-	210	-	-
1959-A217	2436813.50	1959 Sep 2	Nike Nike	-	-	Cree Test 32-5	Cree III	-	-	EGL	A-11	-	-	23	-	-
1959-S160	2436813.50	1959 Sep 2 0003	Nike Asp	-	NN8.76CF	NRL Sunflare 12	-	-	-	PA	LC-A	-	-	200?	-	-
1959-S180	2436830.20	1959 Sep 18 1655	Nike Cajun	-	AA6.300C	-	-	-	-	EGL	-	-	-	100?	-	-
1959-A161	2436833.33	1959 Sep 21 2000	Nike	-	Smoke 002	-	-	-	-	WI	-	-	-	12	-	-
1959-S422	2436837.05	1959 Sep 25 1317	Nike Cajun	-	HUGO 6	Weather photo	-	-	-	CC	LC43	-	-	100?	-	-
1959-S188	2436840.96	1959 Sep 29 1059	Nike Cajun	-	AA6.203C	-	-	-	-	EGL	-	-	-	124	-	-
1959-S192	2436841.96	1959 Sep 30 1057	Nike Cajun	-	AA6.204C	-	-	-	-	EGL	-	-	-	122	-	-
1959-S194	2436842.95	1959 Oct 1 1049	Nike Cajun	-	AA6.210C	-	-	-	-	EGL	-	-	-	138	-	-
1959-S195	2436843.96	1959 Oct 2 1100	Nike Cajun	-	AA6.211C	-	-	-	-	EGL	-	-	-	143	-	-
1959-S196	2436844.96	1959 Oct 3 1103	Nike Cajun	-	AA6.202C	-	-	-	-	EGL	-	-	-	122	-	-
1959-S197	2436846.96	1959 Oct 5 1101	Nike Cajun	-	AA6.212C	-	-	-	-	EGL	-	-	-	127	-	-
1959-S203	2436850.86	1959 Oct 9 0840	Nike Cajun	-	AA6.209C	-	-	-	-	EGL	-	-	-	143	-	-
1959-S204	2436850.97	1959 Oct 9 1117	Nike Cajun	-	AA6.213C	-	-	-	-	EGL	-	-	-	143	-	-
1959-S207	2436853.88	1959 Oct 12 0900	Nike Cajun	-	AA6.208C	-	-	-	-	EGL	-	-	-	123	-	-
1959-S208	2436853.92	1959 Oct 12 1012	Nike Cajun	-	AA6.216C	-	-	-	-	EGL	-	-	-	123	-	-
1959-S211	2436854.97	1959 Oct 13 1117	Nike Cajun	-	AA6.214C	-	-	-	-	EGL	-	-	-	116	-	-
1959-S214	2436856.96	1959 Oct 15 1105	Nike Cajun	-	AA6.207C	-	-	-	-	EGL	-	-	-	122	-	-
1959-S215	2436857.97	1959 Oct 16 1117	Nike Cajun	-	AA6.215C	-	-	-	-	EGL	-	-	-	139	-	-
1959-A180	2436868.21	1959 Oct 26 1700	Nike Cajun	-	AA6.188C	-	-	-	-	FC	-	-	-	0?	-	-
1959-S241	2436891.31	1959 Nov 18 1930	Nike Asp	-	AA8.241C	-	-	-	-	EGL	-	-	-	206	-	-
1959-S242	2436891.43	1959 Nov 18 2217	Nike Asp	-	NASA 03.15CA	GCA Release 3 Na	-	-	-	WI	-	-	-	250	-	-
1959-S246	2436891.94	1959 Nov 19 1036	Nike Cajun	-	AA6.163C	Diurnal density	-	-	-	FC	-	-	-	119	-	-
1959-S247	2436891.95	1959 Nov 19 1051	Nike Asp	-	NASA 03.16CA	GCA Release 4 Na	-	-	-	WI	-	-	-	255	-	-
1959-S249	2436892.95	1959 Nov 20 1051	Nike Asp	-	NASA 03.17CA	GCA Release 5 Na	-	-	-	WI	-	-	-	236	-	-
1959-S250	2436893.26	1959 Nov 20 1816	Nike Cajun	-	AA6.164C	Diurnal density	-	-	-	FC	-	-	-	119	-	-
1959-A197	2436897.50	1959 Nov 25	Nike Cajun	-	-	Paraglider test	-	-	-	WI	-	-	-	45	-	-
1960-S03	2436933.50	1960?	Nike Nike Recruit	-	-	Teflon nose	-	-	-	WI	-	-	-	120	-	-
1960-S04	2436933.50	1960 Jan	Nike Cajun	-	-	-	-	-	-	WS	-	-	-	100?	-	-
1960-S439	2436969.34	1960 Feb 4 2011	Nike Viper I	-	Sandia	Sandia Sampler	Tumbleweed?	-	-	PA	LC-B	-	-	400	-	-
1960-S37	2436981.54	1960 Feb 17 0100	Nike Cajun	-	AA6.103C	-	-	-	-	EGL	-	-	-	120?	-	-
1960-S44	2436995.42	1960 Mar 1 2211	Nike Asp	-	NASA 03.01GS	-	-	-	-	WI	-	-	-	212	-	-
1960-S47	2436997.45	1960 Mar 3 2250	Nike Asp	-	NASA 03.02GS	-	-	-	-	WI	-	-	-	212	-	-
1960-A340	2437001.50	1960 Mar 8	Nike Ajax	-	660	-	-	-	-	WS	ZURF	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-A68	2437010.58	1960 Mar 17 0152	Nike Asp	-	NASA 03.10UI	Dumbbell/Ion sphere	-	-	-	FC	-	-	-	0	-	-
1960-A93	2437032.39	1960 Apr 7 2125	Nike Cajun	-	Flight 7914	Launcher test	-	-	-	FC	-	-	-	2?	-	-
1960-S73	2437033.00	1960 Apr 8 1204	Nike Cajun	-	OB6.03	-	-	-	-	FC	-	-	-	100	-	-
1960-A104	2437052.41	1960 Apr 27 2156	Nike Asp	-	NASA 03.03GS	-	-	-	-	WI	-	-	-	24	-	-
1960-S440	2437053.50	1960 Apr 29	Nike Viper I	-	Sandia	Sandia Sampler	-	-	-	PA	LC-B	-	-	300?	-	-
1960-A343	2437075.50	1960 May 21	Nike Ajax	-	-	-	-	-	-	WS	-	-	-	10?	-	-
1960-A127	2437078.87	1960 May 24 0857	Nike Asp	-	NASA 03.23CA	GCA Release 6 Na	-	-	-	WI	-	-	-	24	-	-
1960-S105	2437079.53	1960 May 25 0048	Nike Asp	-	NASA 03.24CA	GCA Release 7 Na	-	-	-	WI	-	-	-	199	-	-
1960-S106	2437080.42	1960 May 25 2200	Nike Asp	-	NASA 03.04GS	-	-	-	-	WI	-	-	-	193	-	-
1960-S120	2437092.22	1960 Jun 6 1710	Nike Cajun	-	NASA 10.17GE	SBE Solar Beam Expt	-	-	-	FC	-	-	-	122	-	-
1960-A153	2437101.73	1960 Jun 16 0529	Nike Cajun	-	NASA 10.03GA	GSFC Grenade 1	-	-	-	WI	-	-	-	10	-	-
1960-S147	2437112.50	1960 Jun 27	Nike Asp	-	-	-	-	-	-	CC	-	-	-	150?	-	-
1960-S441	2437112.50	1960 Jun 27	Nike Viper I	-	Sandia	Sandia Sampler	-	-	-	PA	LC-B	-	-	300?	-	-
1960-S150	2437113.30	1960 Jun 27 1910	Nike Asp	-	AA8.243	NAsp-III [Not ASE!]	-	-	-	EGL	-	-	-	170	-	-
1960-S148	2437113.72	1960 Jun 28 0510	Nike Asp	-	AA8.242	NAsp-II	-	-	-	EGL	-	-	-	195	-	-
1960-S168	2437124.67	1960 Jul 9 0400	Nike Cajun	-	NASA 10.04GA	GSFC Grenade 2	-	-	-	WI	-	-	-	105	-	-
1960-S172	2437128.52	1960 Jul 13 0023	Nike Cajun	-	AA6.403	-	-	-	-	EGL	-	-	-	170	-	-
1960-A169	2437129.53	1960 Jul 14 0044	Nike Cajun	-	NASA 10.01GA	GSFC Grenade 3	-	-	-	WI	-	-	-	28	-	-
1960-S175	2437129.92	1960 Jul 14 1005	Nike Cajun	-	AA6.409	Firefly FRANCES	-	-	-	EGL	-	-	-	148	-	-
1960-A368	2437129.50	1960 Jul 14	Nike Nike	-	-	Cree Test 33-6	-	-	-	EGL	-	-	-	30?	-	-
1960-S178	2437130.92	1960 Jul 15 1002	Nike Cajun	-	AA6.401	-	-	-	-	EGL	-	-	-	120?	-	-
1960-S180	2437133.92	1960 Jul 18 1001	Nike Cajun	-	AA6.405	Firefly CARRY	-	-	-	EGL	-	-	-	130	-	-
1960-S182	2437135.50	1960 Jul 20	Nike Cajun	-	AEC probe	-	-	-	-	PA	LC-B	-	-	120?	-	-
1960-S186	2437136.56	1960 Jul 21 0132	Nike Cajun	-	AA6.413	Firefly IDA	-	-	-	EGL	-	-	-	130	-	-
1960-S187	2437136.92	1960 Jul 21 1002	Nike Cajun	-	AA6.406	Firefly LILY	-	-	-	EGL	-	-	-	151	-	-
1960-S188	2437137.70	1960 Jul 22 0453	Nike Cajun	-	NASA 10.18GE	SBE-2	-	-	-	FC	-	-	-	129	-	-
1960-S189	2437137.92	1960 Jul 22 1011	Nike Cajun	-	AA6.402	Firefly HEDY	-	-	-	EGL	-	-	-	108	-	-
1960-S193	2437140.85	1960 Jul 25 0830	Nike Cajun	-	AA6.420	-	-	-	-	EGL	-	-	-	120?	-	-
1960-S196	2437141.93	1960 Jul 26 1017	Nike Cajun	-	AA6.421	Firefly JANET	-	-	-	EGL	-	-	-	119	-	-
1960-S198	2437142.93	1960 Jul 27 1019	Nike Cajun	-	AA6.425	Firefly DOLLY	-	-	-	EGL	-	-	-	115	-	-
1960-S201	2437143.85	1960 Jul 28 0830:00	Nike Cajun	-	AA6.419	Firefly AMY	-	-	-	EGL	-	-	-	111	-	-
1960-S204	2437144.85	1960 Jul 29 0830	Nike Cajun	-	AA6.422	Firefly CATHY	-	-	-	EGL	-	-	-	94	-	-
1960-S205	2437144.93	1960 Jul 29 1014	Nike Cajun	-	AA6.407	Firefly MAVIS	-	-	-	EGL	-	-	-	94	-	-
1960-S214	2437147.85	1960 Aug 1 0830	Nike Cajun	-	AA6.408	Firefly RUTHY	-	-	-	EGL	-	-	-	113	-	-
1960-S215	2437147.93	1960 Aug 1 1023	Nike Cajun	-	AA6.410	Firefly HILDA	-	-	-	EGL	-	-	-	126	-	-
1960-S222	2437152.88	1960 Aug 6 0900	Nike Cajun	-	AA6.411	Firefly GERTA	-	-	-	EGL	-	-	-	138	-	-
1960-S224	2437154.93	1960 Aug 8 1015	Nike Cajun	-	AA6.412	Firefly BETSEY	-	-	-	EGL	-	-	-	109	-	-
1960-S225	2437155.94	1960 Aug 9 1037	Nike Cajun	-	AA6.414	Firefly MARIE	-	-	-	EGL	-	-	-	81	-	-
1960-A194	2437156.34	1960 Aug 9 2010	Nike Asp	-	NASA 03.28GT	-	-	-	-	WI	-	-	-	26	-	-
1960-S231	2437156.94	1960 Aug 10 1035	Nike Cajun	-	AA6.418	Firefly JEANNIE	-	-	-	EGL	-	-	-	104	-	-
1960-S239	2437162.57	1960 Aug 16 0142	Nike Asp	-	AA8.404	Firefly ARLENE	-	-	-	EGL	-	-	-	104	-	-
1960-S240	2437162.95	1960 Aug 16 1041	Nike Cajun	-	AA6.426	Firefly PEGGY	-	-	-	EGL	-	-	-	103	-	-
1960-S241	2437163.95	1960 Aug 17 1042	Nike Cajun	-	AA6.427	Firefly SUSAN	-	-	-	EGL	-	-	-	114	-	-
1960-S243	2437164.57	1960 Aug 18 0135	Nike Asp	-	AA8.415	-	-	-	-	EGL	-	-	-	150?	-	-
1960-S244	2437164.61	1960 Aug 18 0242	Nike Cajun	-	AA6.428	Firefly LINDA	-	-	-	EGL	-	-	-	133	-	-
1960-S245	2437164.93	1960 Aug 18 1015	Nike Asp	-	AA8.416	-	-	-	-	EGL	-	-	-	150?	-	-
1960-S246	2437165.94	1960 Aug 19 1040	Nike Cajun	-	AA6.429	Firefly OLIVE	-	-	-	EGL	-	-	-	106	-	-
1960-S247	2437166.33	1960 Aug 19 1956	Nike Cajun	-	AA6.430	Firefly RENA (SF6)	-	-	-	EGL	-	-	-	105	-	-
1960-A319	2437169.25	1960 Aug 22 1806	Nike Nike	-	GAC-1	Cree Test 34-7	Cree II	-	-	EGL	-	-	-	46	-	-
1960-A206	2437169.24	1960 Aug 22 1740:57	Nike Asp	-	NASA 03.12CI	GCA Ionos 1	-	-	-	WI	-	-	-	23	-	-
1960-S251	2437171.54	1960 Aug 25 0104	Nike Asp	-	AA8.244	Firefly	-	-	-	EGL	-	-	-	200	-	-
1960-S253	2437172.54	1960 Aug 26 0103	Nike Asp	-	AA8.417	Firefly	-	-	-	EGL	-	-	-	150?	-	-
1960-S257	2437176.50	1960 Aug 30	Nike Asp	-	-	Firefly	-	-	-	EGL	-	-	-	150?	-	-
1960-S264	2437181.09	1960 Sep 3 1408	Nike Cajun	-	NASA 10.19GE	SBE 3 flare part.	-	-	-	FC	-	-	-	122	-	-
1960-S265	2437181.23	1960 Sep 3 1729	Nike Cajun	-	NASA 10.20GE	SBE 4	-	-	-	FC	-	-	-	122	-	-
1960-A217	2437186.27	1960 Sep 8 1830	Nike	-	Smoke 005	-	-	-	-	WI	-	-	-	9	-	-
1960-A222	2437197.51	1960 Sep 20 0016	Nike Cajun	-	AA6.166	Sphere	-	-	-	FC	-	-	-	0?	-	-
1960-A223	2437198.35	1960 Sep 20 2018	Nike Cajun	-	NASA 10.05GA	GSFC Grenade 4	-	-	-	WI	-	-	-	100?	-	-
1960-A225	2437199.47	1960 Sep 21 2320	Nike Cajun	-	OB6.05	H2O/ne	-	-	-	FC	-	-	-	1?	-	-
1960-A228	2437201.17	1960 Sep 23 1610	Nike	-	Smoke 006	-	-	-	-	WI	-	-	-	13	-	-
1960-S288	2437205.11	1960 Sep 27 1444	Nike Cajun	-	NASA 10.21GE	SBE 5	-	-	-	FC	-	-	-	129	-	-
1960-S290	2437205.42	1960 Sep 27 2210	Nike Asp	-	AA8.350	AS&E-1 Lunar X-ray	-	-	-	EGL	-	-	-	233	-	-
1960-S294	2437206.45	1960 Sep 28 2245	Nike Cajun	-	OB6.07	H2O/ne	-	-	-	FC	-	-	-	105	-	-
1960-A369	2437205.50	1960 Sep 28	Nike Cree	-	-	Cree Test 35-8	-	-	-	EGL	-	-	-	48?	-	-
1960-M30	2437207.50	1960 Sep 30	Nike Viper I	-	-	-	-	-	-	PA	LC-B	-	-	80?	-	-
1960-S324	2437225.38	1960 Oct 17 2104	Nike Cajun	-	AA6.340	UM density/pressure	-	-	-	FC	-	-	-	132	-	-
1960-S343	2437241.43	1960 Nov 2 2225	Nike Cajun	-	NASA 10.09UA	Composition	-	-	-	WI	-	-	-	109	-	-
1960-S344	2437242.39	1960 Nov 3 2119	Nike Asp	-	NASA 03.29GT	-	-	-	-	WI	-	-	-	193	-	-
1960-S348	2437243.37	1960 Nov 4 2052	Nike Cajun	-	AA6.800	Antenna Breakdown Ex	-	-	-	EGL	-	-	-	100?	-	-
1960-S356	2437249.97	1960 Nov 11 1122	Nike Cajun	-	NASA 10.22GE	SBE 6	-	-	-	FC	-	-	-	129	-	-
1960-S357	2437250.01	1960 Nov 11 1211	Nike Cajun	-	NASA 10.23GE	SBE 7	-	-	-	FC	-	-	-	129	-	-
1960-S359	2437251.28	1960 Nov 12 1840	Nike Cajun	-	NASA 10.24GE	SBE 8 (LE SCR)	-	-	-	FC	-	-	-	129	-	-
1960-S360	2437251.48	1960 Nov 12 2332	Nike Cajun	-	NASA 10.15GE	SBE 9	-	-	-	FC	-	-	-	129	-	-
1960-S361	2437252.17	1960 Nov 13 1603	Nike Cajun	-	NASA 10.16GE	SBE 10 (LE SCR)	-	-	-	FC	-	-	-	129	-	-
1960-S365	2437255.23	1960 Nov 16 1737	Nike Cajun	-	NASA 10.10UA	Composition	-	-	-	WI	-	-	-	152	-	-
1960-S367	2437255.33	1960 Nov 16 1951	Nike Cajun	-	NASA 10.13GE	SBE 11	-	-	-	FC	-	-	-	129	-	-
1960-S369	2437255.75	1960 Nov 17 0600	Nike Cajun	-	NASA 10.14GE	SBE 12	-	-	-	FC	-	-	-	129	-	-
1960-S370	2437255.92	1960 Nov 17 1006	Nike Cajun	?	-	-	-	-	-	WS	-	-	-	152	-	-
1960-S373	2437256.65	1960 Nov 18 0339	Nike Cajun	-	NASA 10.26GE	SBE 13	-	-	-	FC	-	-	-	128	-	-
1960-S374	2437257.49	1960 Nov 18 2338:37	Nike Cajun	-	NASA 10.27GE	SBE 14	-	-	-	FC	-	-	-	129	-	-
1960-A320	2437260.21	1960 Nov 21 1700	Nike Nike	-	GAC-2	Cree Test 36-9	Cree II	-	-	EGL	-	-	-	34	-	-
1960-A370	2437259.50	1960 Nov 21	Nike Nike	-	-	Cree Test 37-10	Cree II	-	-	EGL	-	-	-	33?	-	-
1960-S375	2437259.50	1960 Nov 21	Nike Cajun	-	-	-	-	-	-	PA	LC-B	-	-	100?	-	-
1960-S376	2437260.50	1960 Nov 22	Nike Cajun	-	-	-	-	-	-	PA	LC-B	-	-	100?	-	-
1960-S384	2437268.50	1960 Dec?	Nike Nike Recruit	-	-	Teflon nose	-	-	-	WI	-	-	-	120?	-	-
1960-S396	2437277.20	1960 Dec 8 1652:09	Nike Cajun	-	NASA 10.25CI	GCA Ionos 2	-	-	-	WI	-	-	-	152	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S397	2437277.97	1960 Dec 9 1120	Nike Cajun	-	NASA 10.12CA	GCA Release 8 Na	-	-	-	WI	-	-	-	146	-	-
1960-A296	2437278.43	1960 Dec 9 2215	Nike Cajun	-	NASA 10.11CA	GCA Release 9 Na	-	-	-	WI	-	-	-	24	-	-
1960-S407	2437283.20	1960 Dec 14 1652	Nike Cajun	-	NASA 10.06GA	GSFC Grenade 5	-	-	-	WI	-	-	-	110	-	-
1961-M86	2437303.25	1961 Jan 3 1800	Nike Cree	-	-	Cree Test 38-11	-	-	-	EGL	A-11	-	-	51	-	-
1961-S15	2437312.20	1961 Jan 12 1654	Nike Cajun	-	ISRC-RS-01	-	-	-	-	SDQ	-	-	-	160	-	-
1961-S21	2437317.39	1961 Jan 17 2125	Nike Asp	-	NASA 03.36GT	-	-	-	-	WI	-	-	-	209	-	-
1961-A274	2437332.50	1961 Feb 2	Nike Cree	-	-	Cree Test 39-12	-	-	-	EGL	A-11?	-	-	40?	-	-
1961-S46	2437345.49	1961 Feb 14 2350	Nike Cajun	-	NASA 10.07GA	GSFC Grenade 6	-	-	-	WI	-	-	-	130	-	-
1961-A48	2437346.25	1961 Feb 15 1800	Nike	-	Smoke 007	Smoke	-	-	-	WI	-	-	-	10	-	-
1961-S50	2437347.60	1961 Feb 17 0226	Nike Cajun	-	NASA 10.08CA	GSFC Grenade 7	-	-	-	WI	-	-	-	85	-	-
1961-S51	2437347.80	1961 Feb 17 0717	Nike Apache	-	AA5.391	-	-	-	-	WI	-	-	-	200?	-	-
1961-S59	2437354.51	1961 Feb 24 0019	Nike Cajun	-	AA6.170	Sphere	-	-	-	EGL	-	-	-	133	-	-
1961-S454	2437358.50	1961 Mar	Nike Apache	-	-	SPEEDBALL	-	-	-	WS	LC35	-	-	160?	-	-
1961-S62	2437360.15	1961 Mar 1 1542	Nike Asp	-	AA8.820	VLF Propagation	-	-	-	EGL	-	-	-	200?	-	-
1961-S68	2437361.65	1961 Mar 3 0339	Nike Cajun	-	AA6.189	Electron density	-	-	-	EGL	-	-	-	100?	-	-
1961-S81	2437373.41	1961 Mar 14 2152	Nike Cajun	-	AA6.801	Antenna Breakdown Ex	-	-	-	EGL	-	-	-	118	-	-
1961-S83	2437374.24	1961 Mar 15 1747	Nike Cajun	-	NASA 10.49GT	Cajun fin test	-	-	-	WI	-	-	-	130	-	-
1961-S88	2437383.30	1961 Mar 24 1917	Nike Cajun	-	AA6.802	Antenna Breakdown Ex	-	-	-	EGL	-	-	-	100?	-	-
1961-S104	2437395.04	1961 Apr 5 1257	Nike Cajun	-	NASA 10.33GA	GSFC Grenade 8	-	-	-	WI	-	-	-	116	-	-
1961-A99	2437396.32	1961 Apr 6 1935	Nike	-	Smoke 009	Smoke	-	-	-	WI	-	-	-	12	-	-
1961-A100	2437396.50	1961 Apr 7	Nike Recruit	-	-	Reentry Stability	-	-	-	WI	-	-	-	10?	-	-
1961-A103	2437404.15	1961 Apr 14 1530	Nike	-	Smoke 010	Smoke	-	-	-	WI	-	-	-	10	-	-
1961-A104	2437404.32	1961 Apr 14 1935	Nike	-	Smoke 012	Smoke	-	-	-	WI	-	-	-	12	-	-
1961-S115	2437408.90	1961 Apr 19 0936	Nike Asp	-	NASA 03.05CA	GCA Release 10 Na	-	-	-	WI	-	-	-	164	-	-
1961-S116	2437409.28	1961 Apr 19 1837	Nike Asp	-	ISRC-RS-02	-	-	-	-	SDQ	-	-	-	200	-	-
1961-S117	2437409.66	1961 Apr 20 0346	Nike Asp	-	ISRC-RS-03	-	-	-	-	SDQ	-	-	-	190	-	-
1961-S118	2437410.28	1961 Apr 20 1839	Nike Asp	-	ISRC-RS-04	-	-	-	-	SDQ	-	-	-	188	-	-
1961-S119	2437410.28	1961 Apr 20 1843	Nike Asp	-	ISRC-RS-05	-	-	-	-	SDQ	-	-	-	190	-	-
1961-S120	2437410.51	1961 Apr 21 0012	Nike Asp	-	NASA 03.06CA	GCA Release 11 Na	-	-	-	WI	-	-	-	180	-	-
1961-S122	2437410.90	1961 Apr 21 0934	Nike Asp	-	NASA 03.07CA	GCA Release 12 Na	-	-	-	WI	-	-	-	200?	-	-
1961-S123	2437410.90	1961 Apr 21 0939	Nike Asp	-	NASA 03.08CA	GCA Release 13 Na	-	-	-	WI	-	-	-	165	-	-
1961-A111	2437417.44	1961 Apr 27 2232	Nike Cajun	-	NASA 10.34GA	GSFC Grenade 9	-	-	-	WI	-	-	-	18	-	-
1961-A122	2437422.39	1961 May 2 2115	Nike	-	NASA 12.01GT	Cone test	-	-	-	WI	-	-	-	14	-	-
1961-S136	2437425.46	1961 May 5 2300	Nike Cajun	-	NASA 10.02GA	GSFC Grenade 10	-	-	-	WI	-	-	-	117	-	-
1961-S137	2437425.70	1961 May 6 0454	Nike Cajun	-	NASA 10.28GA	GSFC Grenade 11	-	-	-	WI	-	-	-	117	-	-
1961-S139	2437429.00	1961 May 9 1153	Nike Cajun	-	NASA 10.29GA	GSFC Grenade 12	-	-	-	WI	-	-	-	117	-	-
1961-S159	2437445.21	1961 May 25 1703	Nike Apache	-	NASA 14.01GT	-	-	-	-	WI	-	-	-	116	-	-
1961-A252	2437451.50	1961 Jun 1	Nike Yardbird	-	Test Flight 1	Sphere	-	-	-	WI	-	-	-	10?	-	-
1961-S168	2437457.41	1961 Jun 6 2148	Nike Cajun	-	NASA 10.50UA	Sphere/Inf Sphere 1	-	-	-	WI	-	-	-	150	-	-
1961-S174	2437460.25	1961 Jun 9 1802	Nike Cajun	-	NASA 10.56UA	Composition	-	-	-	WI	-	-	-	142	-	-
1961-S185	2437474.12	1961 Jun 23 1500	Nike Cajun	-	AA6.104	Micrometeors	-	-	-	EGL	-	-	-	157	-	-
1961-A165	2437481.22	1961 Jun 30 1720	Astrobee 200	-	CRL AA15.303	-	-	-	-	EGL	-	-	-	29	-	-
1961-S205	2437494.42	1961 Jul 13 2207	Nike Cajun	-	NASA 10.30GA	GSFC Grenade 13	-	-	-	WI	-	-	-	119	-	-
1961-S206	2437494.62	1961 Jul 14 0257	Nike Apache	-	NASA 14.03UE	Magnetic Fields	-	-	-	WI	-	-	-	196	-	-
1961-S207	2437495.12	1961 Jul 14 1500	Nike Apache	-	NASA 14.04UE	Magnetic Fields	-	-	-	WI	-	-	-	200	-	-
1961-A166	2437495.17	1961 Jul 14 1600	Nike	-	Smoke 014	-	-	-	-	WI	-	-	-	14	-	-
1961-S208	2437495.17	1961 Jul 14 1602	Nike Cajun	-	NASA 10.31GA	GSFC Grenade 14	-	-	-	WI	-	-	-	101	-	-
1961-A167	2437495.39	1961 Jul 14 2120	Nike	-	Smoke 015	-	-	-	-	WI	-	-	-	14	-	-
1961-A168	2437495.39	1961 Jul 14 2120	Nike	-	Smoke 016	-	-	-	-	WI	-	-	-	14	-	-
1961-S213	2437500.94	1961 Jul 20 1030	Nike Cajun	-	NASA 10.32GA	GSFC Grenade 15	-	-	-	WI	-	-	-	124	-	-
1961-S214	2437501.05	1961 Jul 20 1312	Nike Apache	-	NASA 14.05UE	Magnetic Fields	-	-	-	WI	-	-	-	193	-	-
1961-M19	2437501.66	1961 Jul 21 0350	Nike Cajun	-	NASA 10.35GA	GSFC Grenade 16	-	-	-	WI	-	-	-	68	-	-
1961-A253	2437506.50	1961 Jul 26	Nike Yardbird	-	Test Flight 2	Sphere	-	-	-	WI	-	-	-	10?	-	-
1961-S221	2437507.31	1961 Jul 26 1922	Nike Cajun	-	NASA 10.57UA	Composition	-	-	-	WI	-	-	-	143	-	-
1961-S245	2437528.35	1961 Aug 16 2027	Nike Apache	-	NASA 14.02GT	-	-	-	-	WI	-	-	-	182	-	-
1961-S248	2437529.63	1961 Aug 18 0306	Nike Cajun	-	NASA 10.51CI	GCA Ionos 3	-	-	-	WI	-	-	-	141	-	-
1961-S257	2437540.24	1961 Aug 28 1741	Nike Asp	-	-	ELF D-region	-	-	-	EGL	-	-	-	200?	-	-
1961-S271	2437550.26	1961 Sep 7 1817	Nike Asp	-	ISRC-RS-06	-	-	-	-	SDQ	-	-	-	200	-	-
1961-S272	2437550.67	1961 Sep 8 0406	Nike Cajun	-	ISRC-RS-07	-	-	-	-	SDQ	-	-	-	100	-	-
1961-S273	2437550.67	1961 Sep 8 0411	Nike Cajun	-	ISRC-RS-08	-	-	-	-	SDQ	-	-	-	145	-	-
1961-A202	2437558.92	1961 Sep 16 1002	Nike Asp	-	NASA 03.09CA	GCA Release 14 Na	-	-	-	WI	-	-	-	27	-	-
1961-S287	2437559.50	1961 Sep 16 2355	Nike Cajun	-	NASA 10.36GA	GSFC Gren-Sphere 1	-	-	-	WI	-	-	-	88	-	-
1961-S286	2437559.53	1961 Sep 17 0039	Nike Asp	-	NASA 03.18CA	GCA Release 15 Na	-	-	-	WI	-	-	-	208	-	-
1961-S290	2437559.92	1961 Sep 17 1003	Nike Asp	-	NASA 03.19CA	GCA Release 16 Na	-	-	-	WI	-	-	-	273	-	-
1961-S291	2437559.93	1961 Sep 17 1013	Nike Cajun	-	NASA 10.37GA	GSFC Gren-Sphere 2	-	-	-	WI	-	-	-	92	-	-
1961-S299	2437569.41	1961 Sep 26 2156	Nike Cajun	-	OB6.16	-	-	-	-	WI	-	-	-	128	-	-
1961-A375	2437582.50	1961 Oct 10	Nike Nike	-	-	Cree Test 40-13	-	-	-	EGL	-	-	-	38	-	-
1961-A222	2437597.17	1961 Oct 24 1610	Nike	-	Smoke 018	-	-	-	-	WI	-	-	-	12	-	-
1961-S356	2437599.90	1961 Oct 27 0935	Nike Cajun	-	NASA 10.52CI	GCA Ionos 4	-	-	-	WI	-	-	-	148	-	-
1961-A273	2437604.50	1961 Nov 1	Nike Cree	-	-	Cree Test 41-14	-	-	-	EGL	-	-	-	45	-	-
1961-S373	2437618.50	1961 Nov 15	Nike Apache	-	-	Speedball	-	-	-	KMR	RN	-	-	100?	-	-
1961-S382	2437621.77	1961 Nov 18 0630	Nike Cajun	-	NASA 10.72NA	Airglow	-	-	-	WI	-	-	-	142	-	-
1961-A238	2437626.15	1961 Nov 22 1530	Nike	-	Smoke 019	-	-	-	-	WI	-	-	-	12	-	-
1961-S419	2437644.21	1961 Dec 10 1701	Nike Cajun	-	NASA 10.76GE	Auroral radiation	-	-	-	FC	-	-	-	132	-	-
1961-S432	2437655.33	1961 Dec 21 1954	Nike Cajun	-	NASA 10.64GA	Structure	-	-	-	WI	-	-	-	132	-	-
1961-S433	2437655.40	1961 Dec 21 2131	Nike Cajun	-	NASA 10.74GI	-	-	-	-	WI	-	-	-	99	-	-
1962-A08	2437681.38	1962 Jan 16 2110	Nike	-	Smoke 020	-	-	-	-	WI	-	-	-	16	-	-
1962-S30	2437694.33	1962 Jan 29 2000	Astrobee 200	-	CRL AA15.109	Day Airglow	-	-	-	EGL	-	-	-	250	-	-
1962-A17	2437702.29	1962 Feb 6 1900	Nike	-	Smoke 021	-	-	-	-	WI	-	-	-	17	-	-
1962-S627	2437696.50	1962 Feb 1	Nike Apache	-	-	SPEEDBALL II 11	-	-	-	WS	-	-	-	150?	-	-
1962-S628	2437701.50	1962 Feb 6	Nike Apache	-	-	SPEEDBALL SK-6	-	-	-	KMR	RN	-	-	150?	-	-
1962-S44	2437716.06	1962 Feb 20 1328	Nike Cajun	-	NASA 10.90UA	Composition	-	-	-	WI	-	-	-	132	-	-
1962-S52	2437725.21	1962 Mar 1 1707	Nike Cajun	-	AA6.167	7-inch Sphere	-	-	-	EGL	-	-	-	144	-	-
1962-S53	2437725.47	1962 Mar 1 2323	Nike Cajun	-	NASA 10.100CA	GCA Release 17 Na	-	-	-	WI	-	-	-	135	-	-
1962-A30	2437725.48	1962 Mar 1 2330	Nike Cajun	-	NASA 10.69GT	Water test	-	-	-	WI	-	-	-	16	-	-
1962-S629	2437725.50	1962 Mar 2	Nike Apache	-	-	SPEEDBALL SK-7	-	-	-	KMR	RN	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S54	2437725.50	1962 Mar 2 0001	Nike Cajun	-	NASA 10.38GA	GSFC Grenade 17	-	-	-	WI	-	-	-	113	-	-
1962-S55	2437725.95	1962 Mar 2 1047	Nike Cajun	-	NASA 10.70GT	Water test	-	-	-	WI	-	-	-	145	-	-
1962-S56	2437725.95	1962 Mar 2 1054	Nike Cajun	-	NASA 10.101CA	GCA Release 18 Na	-	-	-	WI	-	-	-	134	-	-
1962-S57	2437725.97	1962 Mar 2 1115	Nike Cajun	-	NASA 10.39GA	GSFC Grenade 18	-	-	-	WI	-	-	-	115	-	-
1962-S630	2437735.50	1962 Mar 12	Nike Apache	-	-	SPEEDBALL SK-8	-	-	-	KMR	RN	-	-	150?	-	-
1962-S631	2437735.50	1962 Mar 12	Nike Apache	-	-	SPEEDBALL SK-9	-	-	-	KMR	RN	-	-	150?	-	-
1962-S632	2437738.50	1962 Mar 15	Nike Apache	-	-	SPEEDBALL SK-10	-	-	-	KMR	RN	-	-	150?	-	-
1962-S69	2437739.50	1962 Mar 16	Nike Cajun	-	-	IR atmosphere	-	-	-	EGL	-	-	-	100?	-	-
1962-S633	2437743.50	1962 Mar 20	Nike Apache	-	-	SPEEDBALL SK-11	-	-	-	KMR	RN	-	-	150?	-	-
1962-S634	2437744.50	1962 Mar 21	Nike Apache	-	-	SPEEDBALL SK-12	-	-	-	KMR	RN	-	-	150?	-	-
1962-S75	2437747.49	1962 Mar 23 2344	Nike Cajun	-	NASA 10.102CA	GCA Release 19 Na	-	-	-	WI	-	-	-	142	-	-
1962-S76	2437747.50	1962 Mar 23 2354	Nike Cajun	-	NASA 10.40GA	GSFC Gren-Sphere 3	-	-	-	WI	-	-	-	121	-	-
1962-S78	2437751.49	1962 Mar 27 2348	Nike Cajun	-	NASA 10.103CA	GCA Release 20 Na	-	-	-	WI	-	-	-	117	-	-
1962-S80	2437751.50	1962 Mar 28 0003	Nike Cajun	-	NASA 10.41GA	GSFC Grenade 19	-	-	-	WI	-	-	-	123	-	-
1962-S82	2437754.50	1962 Apr	Nike Cajun	-	-	-	-	-	-	WS	-	-	-	100?	-	-
1962-S83	2437754.50	1962 Apr	Nike Cajun	-	-	-	-	-	-	WS	-	-	-	100?	-	-
1962-S84	2437754.50	1962 Apr	Nike Cajun	-	-	-	-	-	-	WS	-	-	-	100?	-	-
1962-A46	2437759.37	1962 Apr 4 2050	Nike	-	Smoke 022	-	-	-	-	WI	-	-	-	11	-	-
1962-M03	2437759.69	1962 Apr 5 0431	Nike Cajun	-	NASA 10.79NA	Ozone release	-	-	-	WI	-	-	-	70	-	-
1962-S100	2437771.89	1962 Apr 17 0928	Nike Cajun	-	NASA 10.42GA	GSFC Grenade 20	-	-	-	WI	-	-	-	119	-	-
1962-S101	2437771.90	1962 Apr 17 0943	Nike Asp	-	NASA 03.20CA	GCA Release 21 Na	-	-	-	WI	-	-	-	201	-	-
1962-S105	2437773.31	1962 Apr 18 1932	Astrobee 200	-	CRL AA15.285	Mid-latitude B field	-	-	-	EGL	-	-	-	221	-	-
1962-S110	2437781.17	1962 Apr 26 1600	Nike Cajun	-	NASA 10.110GI	Japan/US Ionos-1	-	-	-	WI	-	-	-	128	-	-
1962-S117	2437785.27	1962 Apr 30 1835	Astrobee 200	-	CRL AA15.196	-	-	-	-	EGL	-	-	-	255	-	-
1962-A66	2437789.35	1962 May 4 2030	Nike	-	Smoke 023	-	-	-	-	WI	-	-	-	9	-	-
1962-A67	2437789.35	1962 May 4 2030	Nike	-	Smoke 024	-	-	-	-	WI	-	-	-	12	-	-
1962-A68	2437789.35	1962 May 4 2030	Nike	-	Smoke 025	-	-	-	-	WI	-	-	-	18	-	-
1962-A72	2437790.28	1962 May 5 1840	Nike	-	Smoke 026	-	-	-	-	WI	-	-	-	15	-	-
1962-S131	2437801.21	1962 May 16 1703	Nike Cajun	-	NASA 10.112GI	Japan/US Ionos-2	-	-	-	WI	-	-	-	121	-	-
1962-S133	2437801.59	1962 May 17 0204	Nike Cajun	-	NASA 10.111GI	Japan/US Ionos-3	-	-	-	WI	-	-	-	127	-	-
1962-S136	2437803.25	1962 May 18 1801	Nike Cajun	-	NASA 10.91UA	Composition	-	-	-	WI	-	-	-	135	-	-
1962-A85	2437810.24	1962 May 25 1740	Nike	-	Smoke 027	-	-	-	-	WI	-	-	-	15	-	-
1962-S153	2437816.50	1962 Jun 1	Nike Cajun	-	FB-1	-	-	-	-	JI	-	-	-	100?	-	-
1962-S171	2437822.49	1962 Jun 6 2340:00	Nike Apache	-	NASA 14.19UA	UM Pitot 1	-	-	-	WI	-	-	-	125	-	-
1962-S175	2437822.50	1962 Jun 7 0005	Nike Cajun	-	NASA 10.43GA	GSFC Gren-Sphere 4	-	-	-	WI	-	-	-	120	-	-
1962-S176	2437822.54	1962 Jun 7 0056	Nike Asp	-	NASA 03.21CA	GCA Release 22 Na	-	-	-	WI	-	-	-	162	-	-
1962-A93	2437822.87	1962 Jun 7 0852	Nike Asp	-	NASA 03.22CA	GCA Release 23 Na	-	-	-	WI	-	-	-	34	-	-
1962-S177	2437823.11	1962 Jun 7 1445	Nike Cajun	-	Rehbar 1	Na release	-	-	-	SOM	-	-	-	126	-	-
1962-S180	2437823.54	1962 Jun 8 0053	Nike Cajun	-	NASA 10.44GA	GSFC Grenade 21	-	-	-	WI	-	-	-	117	-	-
1962-S182	2437827.12	1962 Jun 11 1450	Nike Cajun	-	Rehbar 2	Na release	-	-	-	SOM	-	-	-	116	-	-
1962-S188	2437831.20	1962 Jun 15 1648	Nike Apache	-	NASA 14.12GI	-	-	-	-	WI	-	-	-	143	-	-
1962-S190	2437834.50	1962 Jun 19	Nike Cajun	-	FB-2	-	-	-	-	JI	-	-	-	100?	-	-
1962-S204	2437843.09	1962 Jun 27 1410:00	Nike Asp	-	-	-	-	-	-	WI?	-	-	-	200?	-	-
1962-S206	2437843.51	1962 Jun 28 0010:00	Nike Asp	-	-	-	-	-	-	WI?	-	-	-	200?	-	-
1962-S217	2437846.50	1962 Jul 1	Nike Cajun	-	-	7-inch Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-S227	2437853.50	1962 Jul 8	Nike Cajun	-	FB-3	7-inch Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-S230	2437854.76	1962 Jul 9 0615?	Nike Cajun	-	Project 9.1 Na	STARFISH Na	-	-	-	JI	Pad 21	-	-	137?	-	-
1962-S231	2437854.85	1962 Jul 9 0830?	Nike Cajun	-	Project 9.1 Na	STARFISH Na	-	-	-	JI	Pad 20	-	-	137?	-	-
1962-S616	2437854.87	1962 Jul 9 0856:34	Nike Apache	-	SJI-152	STARFISH X-ray	-	-	-	JI	Pad 14	-	-	172	-	-
1962-S617	2437854.87	1962 Jul 9 0856:39	Nike Apache	-	SJI-152	STARFISH X-ray/Beta	-	-	-	JI	Pad 10	-	-	159	-	-
1962-S618	2437854.87	1962 Jul 9 0856:40	Nike Apache	-	SJI-111	STARFISH X-ray/RCS	-	-	-	JI	Pad 7	-	-	159	-	-
1962-S619	2437854.87	1962 Jul 9 0856:41	Nike Apache	-	SJI-151	STARFISH X-ray/RCS	-	-	-	JI	Pad 9	-	-	159	-	-
1962-S620	2437854.87	1962 Jul 9 0856:42	Nike Apache	-	SJI-112	STARFISH X-ray/RCS	-	-	-	JI	Pad 8	-	-	159	-	-
1962-S621	2437854.87	1962 Jul 9 0857:48	Nike Apache	-	SJS-151	STARFISH RCS	-	-	-	JI	Pad 13	-	-	176	-	-
1962-S591	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-153	STARFISH X-ray	-	-	-	KAU	-	-	-	167	-	-
1962-S592	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-111	STARFISH Neutron	-	-	-	KAU	-	-	-	157	-	-
1962-S593	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-112	STARFISH Neutron	-	-	-	KAU	-	-	-	157	-	-
1962-S594	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-115	STARFISH Alpha	-	-	-	KAU	-	-	-	156	-	-
1962-S595	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-131	STARFISH Neutron	-	-	-	KAU	-	-	-	157	-	-
1962-S596	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-137	STARFISH X-ray	-	-	-	KAU	-	-	-	156	-	-
1962-S597	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-151	STARFISH Timing	-	-	-	KAU	-	-	-	157	-	-
1962-S598	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-154	STARFISH Neut-Gamma	-	-	-	KAU	-	-	-	159	-	-
1962-S599	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-113	STARFISH X-gamma	-	-	-	KAU	-	-	-	159	-	-
1962-S600	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-114	STARFISH X-gamma	-	-	-	KAU	-	-	-	159	-	-
1962-S601	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-133	STARFISH X-ray	-	-	-	KAU	-	-	-	155	-	-
1962-S602	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-138	STARFISH X-ray	-	-	-	KAU	-	-	-	155	-	-
1962-S603	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-116	STARFISH Alpha	-	-	-	KAU	-	-	-	157	-	-
1962-S604	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-134	STARFISH X-ray	-	-	-	KAU	-	-	-	155	-	-
1962-S605	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-152	STARFISH Timing	-	-	-	KAU	-	-	-	157	-	-
1962-S606	2437854.87	1962 Jul 9 0857:05	Nike Apache	-	SKI-155	STARFISH Neut-Gamma	-	-	-	KAU	-	-	-	144	-	-
1962-S607	2437854.87	1962 Jul 9 0857:05	Nike Apache	-	SKI-157	STARFISH X-ray	-	-	-	KAU	-	-	-	143	-	-
1962-S608	2437854.87	1962 Jul 9 0857:14	Nike Apache	-	SKI-156	STARFISH Gamma	-	-	-	KAU	-	-	-	139	-	-
1962-S232	2437854.87	1962 Jul 9 0859?	Nike Cajun	-	Project 9.1 Sphere	STARFISH Mass spec	-	-	-	JI	Pad 16	-	-	118?	-	-
1962-S609	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-132	STARFISH Neutron	-	-	-	KAU	-	-	-	157	-	-
1962-S610	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-135	STARFISH Gamma	-	-	-	KAU	-	-	-	159	-	-
1962-S611	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-136	STARFISH Gamma	-	-	-	KAU	-	-	-	159	-	-
1962-S613	2437854.88	1962 Jul 9 0903:40?	Nike Apache	-	Project 6.13	STARFISH Speedball	-	-	-	JI	Pad 3	-	-	230?	-	-
1962-S614	2437854.88	1962 Jul 9 0911:50?	Nike Apache	-	Project 6.13	STARFISH Speedball	-	-	-	JI	Pad 26	-	-	230?	-	-
1962-S233	2437854.88	1962 Jul 9 0908?	Nike Cajun	-	Project 9.1 Sphere	STARFISH Mass spec	-	-	-	JI	Pad 15	-	-	118?	-	-
1962-S615	2437854.90	1962 Jul 9 0931?	Nike Apache	-	Project 6.13	STARFISH Speedball	-	-	-	JI	Pad 27	-	-	230?	-	-
1962-S622	2437854.92	1962 Jul 9 0959	Nike Apache	-	SJS-152	STARFISH RCS	-	-	-	JI	Pad 11	-	-	137	-	-
1962-S612	2437856.16	1962 Jul 10 1549?	Nike Cajun	-	Project 9.1 Na	STARFISH Na	-	-	-	JI	Pad 21	-	-	137?	-	-
1962-S246	2437864.86	1962 Jul 19 0840	Nike Cajun	-	FB-5	7-inch Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-S259	2437868.50	1962 Jul 23	Nike Cajun	-	FB-4	Sphere/Mass spec	-	-	-	JI	-	-	-	100?	-	-
1962-S281	2437883.53	1962 Aug 7 0047:08	Nike Cajun	-	RTG K62-1	Air sample	-	-	-	KRON	-	-	-	105	-	-
1962-A132	2437885.30	1962 Aug 8 1915	Nike	-	Smoke 303	-	-	-	-	CC	-	-	-	16	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S293	2437887.58	1962 Aug 11 0148:11	Nike Cajun	-	RTG K62-3	Air sample	-	-	-	KRON	-	-	-	105	-	-
1962-S297	2437894.80	1962 Aug 18 0709	Nike Cajun	-	Ferdinand 1	Ferdinand 1	-	-	-	AND	-	-	-	100	-	-
1962-S298	2437895.54	1962 Aug 19 0057:39	Nike Cajun	-	RTG K62-4	Air sample	-	-	-	KRON	-	-	-	109	-	-
1962-S309	2437900.22	1962 Aug 23 1710	Nike Apache	-	NASA 14.30CA	Structure	-	-	-	WI	-	-	-	129	-	-
1962-M54	2437903.79	1962 Aug 27 0653	Nike Cajun	-	-	Mariner Exhaust Expt.	-	-	-	VNC	-	-	-	61	-	-
1962-S315	2437905.32	1962 Aug 28 1934	Nike Cajun	-	AC6.829	EM Absorption	-	-	-	EGL	-	-	-	148	-	-
1962-S317	2437906.29	1962 Aug 29 1900	Nike Cajun	-	AC6.830	EM Absorption	-	-	-	EGL	-	-	-	100?	-	-
1962-S320	2437907.54	1962 Aug 31 0056:07	Nike Cajun	-	RTG K62-5	Air sample	-	-	-	KRON	-	-	-	111	-	-
1962-A158	2437933.35	1962 Sep 25 2028	Nike	-	Smoke 304	-	-	-	-	CC	-	-	-	11	-	-
1962-A160	2437934.84	1962 Sep 27 0808:00	Nike	-	-	-	-	-	-	EGL	-	-	-	10?	-	-
1962-A164	2437941.35	1962 Oct 3 2030	Nike	-	Smoke 302	-	-	-	-	CC	-	-	-	15	-	-
1962-S382	2437944.50	1962 Oct 7	Nike Cajun	-	-	-	-	-	-	EGL	-	-	-	100?	-	-
1962-A167	2437946.29	1962 Oct 8 1900	Nike	-	Smoke 305	-	-	-	-	CC	-	-	-	15	-	-
1962-A169	2437948.35	1962 Oct 10 2030	Nike	-	Smoke 306	-	-	-	-	CC	-	-	-	16	-	-
1962-S386	2437948.52	1962 Oct 11 0030	Nike Cajun	-	-	-	-	-	-	EGL	-	-	-	100?	-	-
1962-M26	2437949.36	1962 Oct 11 2033:00	Nike Cajun	?	-	-	-	-	-	EGL	-	-	-	67	-	-
1962-S391	2437952.97	1962 Oct 15 1115	Nike Cajun	-	AC6.441	Firefly III BONNIE	-	-	-	EGL	Pad 2	-	-	91	-	-
1962-S394	2437953.97	1962 Oct 16 1115	Nike Cajun	-	AC6.434	Firefly III ALICE	-	-	-	EGL	Pad 2	-	-	90	-	-
1962-S395	2437954.13	1962 Oct 16 1506	Nike Apache	-	NASA 14.31GI	GCA Ionos 5/CWPE	-	-	-	WI	-	-	-	166	-	-
1962-S397	2437954.53	1962 Oct 17 0040	Nike Cajun	-	AC6.443	Firefly III DAGMAR	-	-	-	EGL	Pad 2	-	-	89	-	-
1962-S398	2437954.97	1962 Oct 17 1116	Nike Cajun	-	AC6.442	Firefly III CINDY	-	-	-	EGL	Pad 2	-	-	86	-	-
1962-S399	2437955.16	1962 Oct 17 1552	Nike Cajun	-	AC6.832	VLF Propagation	-	-	-	WI	-	-	-	141	-	-
1962-S402	2437955.54	1962 Oct 18 0100	Nike Cajun	-	AC6.435	Firefly III BRENDA	-	-	-	EGL	Pad 2	-	-	86	-	-
1962-S404	2437956.97	1962 Oct 19 1117	Nike Cajun	-	AC6.438	Firefly III QUEENIE	-	-	-	EGL	Pad 2	-	-	91	-	-
1962-A174	2437957.33	1962 Oct 19 1953	Nike	-	Smoke 307	-	-	-	-	CC	-	-	-	16	-	-
1962-S407	2437957.88	1962 Oct 20 0900	Nike Cajun	-	FB-7	Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-S414	2437959.97	1962 Oct 22 1119:00	Nike Cajun	-	AC6.448	Firefly III LOUISE	-	-	-	EGL	Pad 2	-	-	100?	-	-
1962-S415	2437960.97	1962 Oct 23 1119:00	Nike Cajun	-	AC6.446	Firefly III KITTY	-	-	-	EGL	Pad 3	-	-	100?	-	-
1962-S419	2437962.50	1962 Oct 25	Nike Cajun	-	-	Mass spectrometer	-	-	-	JI	-	-	-	100?	-	-
1962-S421	2437962.77	1962 Oct 25 0630	Nike Cajun	-	AC6.444	Firefly III ENID	-	-	-	EGL	Pad 3	-	-	137	-	-
1962-S423	2437962.97	1962 Oct 25 1121:00	Nike Cajun	-	AC6.437	Firefly III PAULA	-	-	-	EGL	Pad 3	-	-	95	-	-
1962-S432	2437963.93	1962 Oct 26 1015	Nike Cajun	-	FB-6	Mass spectrometer	-	-	-	JI	-	-	-	100?	-	-
1962-S426	2437963.50	1962 Oct 26	Nike Cajun	-	-	Ionos winds	-	-	-	JI	-	-	-	100?	-	-
1962-S427	2437963.50	1962 Oct 26	Nike Cajun	-	-	Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-S436	2437964.50	1962 Oct 27	Nike Cajun	-	-	Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-A180	2437967.34	1962 Oct 29 2013	Nike	-	Smoke 308	-	-	-	-	CC	-	-	-	13	-	-
1962-S452	2437969.98	1962 Nov 1 1125	Nike Cajun	-	AC6.439	Firefly III RUBY	-	-	-	EGL	Pad 2	-	-	100?	-	-
1962-S456	2437970.01	1962 Nov 1 1220	Nike Cajun	-	FB-8	Sphere	-	-	-	JI	-	-	-	100?	-	-
1962-A186	2437970.33	1962 Nov 1 2002	Nike	-	Smoke 309	-	-	-	-	CC	-	-	-	13	-	-
1962-S460	2437970.82	1962 Nov 2 0734	Nike Cajun	-	FB-9	Ionos winds	-	-	-	JI	-	-	-	100?	-	-
1962-S461	2437970.98	1962 Nov 2 1125	Nike Cajun	-	AC6.436	Firefly III CAROL	-	-	-	EGL	Pad 2	-	-	10?	-	-
1962-S462	2437971.50	1962 Nov 3	Nike Cajun	-	-	Ionos winds	-	-	-	JI	-	-	-	100?	-	-
1962-S464	2437972.50	1962 Nov 4	Nike Cajun	-	-	Ionos winds	-	-	-	JI	-	-	-	100?	-	-
1962-S465	2437972.50	1962 Nov 4	Nike Cajun	-	-	Ionos winds	-	-	-	JI	-	-	-	100?	-	-
1962-S466	2437973.98	1962 Nov 5 1129	Nike Cajun	-	AC6.440	Firefly III SALLY	-	-	-	EGL	Pad 2	-	-	97	-	-
1962-A190	2437974.38	1962 Nov 5 2103	Nike	-	Smoke 310	-	-	-	-	CC	-	-	-	21	-	-
1962-S467	2437974.83	1962 Nov 6 0800	Nike Cajun	-	AC6.445	Firefly III BEVERLY	-	-	-	EGL	Pad 2	-	-	89	-	-
1962-A191	2437975.37	1962 Nov 6 2049	Nike	-	Smoke 311	-	-	-	-	CC	-	-	-	16	-	-
1962-S469	2437975.93	1962 Nov 7 1025	Nike Cajun	-	NASA 10.99CI	GCA Ionos 6	-	-	-	WI	-	-	-	132	-	-
1962-S470	2437975.95	1962 Nov 7 1053	Nike Apache	-	NASA 14.16CA	GCA Release 24 Na	-	-	-	WI	-	-	-	165	-	-
1962-A194	2437982.31	1962 Nov 13 1930	Nike	-	Smoke 312	-	-	-	-	CC	-	-	-	15	-	-
1962-A196	2437984.75	1962 Nov 16 0559	Nike Cajun	-	NASA 10.65GA	GSFC Grenade 22	-	-	-	FC	-	-	-	16	-	-
1962-A197	2437985.24	1962 Nov 16 1745	Nike	-	Smoke 368	-	-	-	-	CC	-	-	-	18	-	-
1962-A198	2437985.35	1962 Nov 16 2023	Nike	-	Smoke 313	-	-	-	-	CC	-	-	-	18	-	-
1962-S515	2437998.96	1962 Nov 30 1057	Nike Cajun	-	NASA 10.108CI	GCA Ionos 7	-	-	-	WI	-	-	-	122	-	-
1962-S516	2437998.97	1962 Nov 30 1115	Nike Apache	-	NASA 14.17CA	GCA Ionos 8/Rel Na	-	-	-	WI	-	-	-	170	-	-
1962-S503	2437998.50	1962 Dec	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1962-S504	2437998.50	1962 Dec	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1962-S505	2437998.50	1962 Dec	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1962-S517	2438000.25	1962 Dec 1 1806	Nike Apache	-	NASA 14.32GI	-	-	-	-	WI	-	-	-	169	-	-
1962-S518	2438000.36	1962 Dec 1 2034:00	Nike Apache	-	NASA 14.20UA	UM Pitot 2	-	-	-	WI	-	-	-	131	-	-
1962-S519	2438000.39	1962 Dec 1 2125	Nike Cajun	-	NASA 10.45GA	GSFC Grenade 23	-	-	-	WI	-	-	-	126	-	-
1962-S520	2438000.40	1962 Dec 1 2134	Nike Cajun	-	NASA 10.68GA	GSFC Grenade 24	-	-	-	FC	-	-	-	108	-	-
1962-S521	2438000.47	1962 Dec 1 2320	Nike Apache	-	NASA 14.45AA/AC5.465	Firefly III TERRY	-	-	-	EGL	Pad 2	-	-	222	-	-
1962-S522	2438002.47	1962 Dec 3 2320	Nike Apache	-	NASA 14.46AA/AC5.468	Firefly III SHARON	-	-	-	EGL	Pad 2	-	-	222	-	-
1962-S524	2438002.50	1962 Dec 4 0001	Nike Apache	-	AC5.466	Firefly III IVY	-	-	-	EGL	Pad 3	-	-	150?	-	-
1962-S525	2438002.66	1962 Dec 4 0345	Nike Apache	-	AC5.467	Firefly III ESTHER	-	-	-	EGL	Pad 3	-	-	135	-	-
1962-S527	2438002.80	1962 Dec 4 0706	Nike Cajun	-	NASA 10.67GA	GSFC Grenade 25	-	-	-	FC	-	-	-	114	-	-
1962-M38	2438002.80	1962 Dec 4 0719	Nike Cajun	-	NASA 10.46GA	GSFC Grenade 26	-	-	-	WI	-	-	-	50	-	-
1962-A212	2438003.34	1962 Dec 4 2007	Nike	-	Smoke 314	-	-	-	-	CC	-	-	-	16	-	-
1962-S534	2438004.42	1962 Dec 5 2200	Nike Cajun	-	NASA 10.109CI	GCA Ionos 9	-	-	-	WI	-	-	-	128	-	-
1962-S536	2438004.43	1962 Dec 5 2216	Nike Apache	-	NASA 14.18CA	GCA Ionos 10/Rel Na	-	-	-	WI	-	-	-	100?	-	-
1962-S537	2438004.73	1962 Dec 6 0532	Nike Cajun	-	NASA 10.47GA	GSFC Grenade 27	-	-	-	WI	-	-	-	119	-	-
1962-S538	2438004.74	1962 Dec 6 0543	Nike Cajun	-	NASA 10.66GA	GSFC Grenade 28	-	-	-	FC	-	-	-	122	-	-
1962-A214	2438005.39	1962 Dec 6 2120	Nike	-	Smoke 315	-	-	-	-	CC	-	-	-	14	-	-
1962-A217	2438009.23	1962 Dec 10 1730	Nike	-	Smoke 316	-	-	-	-	CC	-	-	-	16	-	-
1962-S549	2438009.50	1962 Dec 11	Nike Cajun	-	ISRC-RS-?	-	-	-	-	SDQ	-	-	-	100?	-	-
1962-S551	2438009.56	1962 Dec 11 0130	Nike Cajun	-	AC6.447	Firefly III DANA	-	-	-	EGL	Pad 3	-	-	108	-	-
1962-S552	2438009.64	1962 Dec 11 0327	Nike Cajun	-	Ferdinand 3	Ferdinand 3	-	-	-	AND	-	-	-	121	-	-
1962-A220	2438010.37	1962 Dec 11 2047	Nike	-	Smoke 317	-	-	-	-	CC	-	-	-	14	-	-
1962-A224	2438012.33	1962 Dec 13 2000	Nike	-	Smoke 318	-	-	-	-	CC	-	-	-	19	-	-
1962-A226	2438013.32	1962 Dec 14 1936	Nike	-	Smoke 319	-	-	-	-	CC	-	-	-	18	-	-
1962-S565	2438013.37	1962 Dec 14 2052	Nike Cajun	-	Ferdinand 2	Ferdinand 2	-	-	-	AND	-	-	-	123	-	-
1962-A228	2438016.35	1962 Dec 17 2026	Nike	-	Smoke 320	-	-	-	-	CC	-	-	-	17	-	-
1962-A229	2438017.21	1962 Dec 18 1703	Nike	-	Smoke 321	-	-	-	-	CC	-	-	-	14	-	-
1962-A231	2438018.21	1962 Dec 19 1700	Nike	-	Smoke 322	-	-	-	-	CC	-	-	-	18	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A233	2438019.32	1962 Dec 20 1947	Nike	-	Smoke 323	-	-	-	-	CC	-	-	-	16	-	-
1962-A235	2438020.23	1962 Dec 21 1726	Nike	-	Smoke 324	-	-	-	-	CC	-	-	-	15	-	-
1962-A238	2438027.25	1962 Dec 28 1807	Nike	-	Smoke 325	-	-	-	-	CC	-	-	-	21	-	-
1963-S02	2438029.50	1963 Jan	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S03	2438029.50	1963 Jan	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-A05	2438033.33	1963 Jan 3 1958	Nike	-	Smoke 326	-	-	-	-	CC	-	-	-	14	-	-
1963-A06	2438033.38	1963 Jan 3 2100	Nike	-	Smoke 327	-	-	-	-	CC	-	-	-	12	-	-
1963-A07	2438034.33	1963 Jan 4 2000	Nike	-	Smoke 328	-	-	-	-	CC	-	-	-	15	-	-
1963-A09	2438039.25	1963 Jan 9 1800	Nike	-	Smoke 330	-	-	-	-	CC	-	-	-	15	-	-
1963-A10	2438040.31	1963 Jan 10 1930	Nike	-	Smoke 331	-	-	-	-	CC	-	-	-	21	-	-
1963-A11	2438041.32	1963 Jan 11 1942	Nike	-	Smoke 332	-	-	-	-	CC	-	-	-	16	-	-
1963-M08	2438046.57	1963 Jan 17 0144	Nike Cajun	-	NASA 10.80NA	Ozone release	-	-	-	WI	-	-	-	74	-	-
1963-A12	2438047.39	1963 Jan 17 2117	Nike	-	Smoke 333	-	-	-	-	CC	-	-	-	15	-	-
1963-A13	2438048.43	1963 Jan 18 2217	Nike	-	Smoke 334	-	-	-	-	CC	-	-	-	15	-	-
1963-A14	2438052.32	1963 Jan 22 1946	Nike	-	Smoke 335	-	-	-	-	CC	-	-	-	15	-	-
1963-A15	2438058.25	1963 Jan 28 1800	Nike	-	Smoke 336	-	-	-	-	CC	-	-	-	16	-	-
1963-A18	2438061.33	1963 Jan 31 2000	Nike	-	Smoke 337	-	-	-	-	CC	-	-	-	15	-	-
1963-S28	2438060.50	1963 Feb	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-A21	2438068.24	1963 Feb 7 1745	Nike	-	Smoke 338	-	-	-	-	CC	-	-	-	22	-	-
1963-S639	2438072.50	1963 Feb 12?	Nike Cajun	-	TRUMP	-	-	-	-	CC	LC43D	-	-	100?	-	-
1963-A22	2438074.26	1963 Feb 13 1815	Nike	-	Smoke 339	-	-	-	-	CC	-	-	-	16	-	-
1963-A26	2438079.47	1963 Feb 18 2314	Nike Asp	-	NASA 03.11CA	GCA Release 25 Na	-	-	-	WI	-	-	-	25	-	-
1963-A27	2438081.31	1963 Feb 20 1930	Nike	-	Smoke 340	-	-	-	-	CC	-	-	-	18	-	-
1963-S59	2438081.47	1963 Feb 20 2318	Nike Apache	-	NASA 14.35CA	GCA Grenade 1/Rel Na	-	-	-	WI	-	-	-	164	-	-
1963-S60	2438081.48	1963 Feb 20 2334	Nike Cajun	-	NASA 10.58GA	GSFC Grenade 29	-	-	-	FC	-	-	-	113	-	-
1963-S61	2438081.49	1963 Feb 20 2347	Nike Cajun	-	NASA 10.48GA	GSFC Grenade 30	-	-	-	WI	-	-	-	113	-	-
1963-S63	2438082.47	1963 Feb 21 2316	Nike Apache	-	NASA 14.39CA	GCA Grenade 2	-	-	-	WI	-	-	-	172	-	-
1963-S67	2438088.31	1963 Feb 27 1930:00	Nike Apache	-	NASA 14.86CI	GCA Ionos 11	-	-	-	WI	-	-	-	151	-	-
1963-A28	2438088.31	1963 Feb 27 1930	Nike	-	Smoke 341	-	-	-	-	CC	-	-	-	14	-	-
1963-S74	2438089.41	1963 Feb 28 2148	Nike Cajun	-	NASA 10.59GA	GSFC Grenade 31	-	-	-	FC	-	-	-	113	-	-
1963-S75	2438089.42	1963 Feb 28 2211	Nike Cajun	-	NASA 10.53GA	GSFC Grenade 32	-	-	-	WI	-	-	-	103	-	-
1963-S70	2438088.50	1963 Mar	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S71	2438088.50	1963 Mar	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-A237	2438097.04	1963 Mar 8 1300	Nike Cree	-	-	Cree PDTP 4	-	-	-	EGL	-	-	-	68	-	-
1963-A33	2438097.31	1963 Mar 8 1920	Nike	-	Smoke 342	-	-	-	-	CC	-	-	-	20	-	-
1963-S84	2438097.31	1963 Mar 8 1930	Nike Apache	-	NASA 14.107GI	-	-	-	-	WI	-	-	-	155	-	-
1963-S85	2438097.50	1963 Mar 9 0001	Nike Cajun	-	NASA 10.60GA	GSFC Grenade 33	-	-	-	FC	-	-	-	117	-	-
1963-S86	2438097.50	1963 Mar 9 0001	Nike Cajun	-	NASA 10.54GA	GSFC Grenade 34	-	-	-	WI	-	-	-	119	-	-
1963-A36	2438100.40	1963 Mar 11 2130	Nike	-	Smoke 343	-	-	-	-	CC	-	-	-	14	-	-
1963-A37	2438101.31	1963 Mar 12 1925	Nike	-	Smoke 344	-	-	-	-	CC	-	-	-	14	-	-
1963-A40	2438107.31	1963 Mar 18 1930	Nike	-	Smoke 345	-	-	-	-	CC	-	-	-	15	-	-
1963-S638	2438107.56	1963 Mar 19 0130?	Nike Cajun	-	TRUMP	-	-	-	-	CC	LC43D	-	-	100?	-	-
1963-A41	2438110.30	1963 Mar 21 1910	Nike	-	Smoke 346	-	-	-	-	CC	-	-	-	15	-	-
1963-A42	2438111.27	1963 Mar 22 1830	Nike	-	Smoke 347	-	-	-	-	CC	-	-	-	16	-	-
1963-S122	2438114.56	1963 Mar 26 0130	Nike Cajun	-	Falling Sphere 1	Three-sphere payload	-	-	-	KMR	RN	-	-	93	-	-
1963-S117	2438116.83	1963 Mar 28 0754:59	Nike Apache	-	NASA 14.08UA	UM Composition 1	-	-	-	WI	-	-	-	190	-	-
1963-A238	2438117.07	1963 Mar 28 1345	Nike Cree	-	-	Cree PDTP 5	-	-	-	EGL	-	-	-	66	-	-
1963-S119	2438117.30	1963 Mar 28 1906	Nike Apache	-	NASA 14.09UA	UM Composition 2	-	-	-	WI	-	-	-	190	-	-
1963-A47	2438117.25	1963 Mar 28 1802	Nike	-	Smoke 348	-	-	-	-	CC	-	-	-	21	-	-
1963-S120	2438117.34	1963 Mar 28 2006:00	Nike Apache	-	NASA 14.87CI	GCA Ionos 12	-	-	-	WI	-	-	-	161	-	-
1963-A48	2438117.34	1963 Mar 28 2010	Nike	-	Smoke 408	-	-	-	-	CC	-	-	-	19	-	-
1963-S123	2438117.62	1963 Mar 29 0257	Nike Cajun	-	Falling Sphere 2	-	-	-	-	KMR	RN	-	-	177	-	-
1963-A49	2438122.31	1963 Apr 2 1923	Nike	-	Smoke 349	-	-	-	-	CC	-	-	-	13	-	-
1963-A50	2438123.31	1963 Apr 3 1920	Nike	-	Smoke 350	-	-	-	-	CC	-	-	-	14	-	-
1963-A51	2438125.29	1963 Apr 5 1903	Nike	-	Smoke 351	-	-	-	-	CC	-	-	-	15	-	-
1963-S140	2438129.35	1963 Apr 9 2028	Nike Apache	-	NASA 14.108GI	D-region	-	-	-	WI	-	-	-	163	-	-
1963-A54	2438131.36	1963 Apr 11 2035	Nike	-	Smoke 352	-	-	-	-	CC	-	-	-	15	-	-
1963-A55	2438132.31	1963 Apr 12 1925	Nike	-	Smoke 353	-	-	-	-	CC	-	-	-	12	-	-
1963-A57	2438135.31	1963 Apr 15 1930	Nike	-	Smoke 354	-	-	-	-	CC	-	-	-	16	-	-
1963-A58	2438136.31	1963 Apr 16 1930	Nike	-	Smoke 355	-	-	-	-	CC	-	-	-	21	-	-
1963-A59	2438137.31	1963 Apr 17 1930	Nike	-	Smoke 356	-	-	-	-	CC	-	-	-	16	-	-
1963-A61	2438142.31	1963 Apr 22 1930	Nike	-	Smoke 357	-	-	-	-	CC	-	-	-	12	-	-
1963-A63	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 028	-	-	-	-	WI	-	-	-	20	-	-
1963-A64	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 029	-	-	-	-	WI	-	-	-	11	-	-
1963-A65	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 030	-	-	-	-	WI	-	-	-	17	-	-
1963-A69	2438157.35	1963 May 7 2030	Nike	-	Smoke 358	-	-	-	-	CC	-	-	-	15	-	-
1963-S192	2438158.22	1963 May 8 1723	Nike Apache	-	NASA 14.110CA	-	-	-	-	WI	-	-	-	166	-	-
1963-A70	2438158.31	1963 May 8 1930	Nike	-	Smoke 359	-	-	-	-	CC	-	-	-	14	-	-
1963-A75	2438164.40	1963 May 14 2135	Nike	-	Smoke 360	-	-	-	-	CC	-	-	-	17	-	-
1963-S203	2438165.67	1963 May 16 0400	Nike Cajun	-	AC6.472	Firefly IV CLAIRE	-	-	-	EGL	-	-	-	156	-	-
1963-S205	2438166.11	1963 May 16 1438	Nike Cajun	-	NASA 10.77IA	Rehbar 3? (Na)	-	-	-	SOM	-	-	-	146	-	-
1963-S640	2438167.72	1963 May 18 0514?	Nike Cajun	-	TRUMP	-	-	-	-	CC	LC43D	-	-	100?	-	-
1963-S212	2438167.55	1963 May 18 0106	Nike Apache	-	NASA 14.141DA	Firefly IV SARAH	AC5.469	-	-	EGL	-	-	-	185	-	-
1963-S213	2438167.68	1963 May 18 0418	Nike Apache	-	AC5.470	Firefly IV STELLA	AC5.470	-	-	EGL	-	-	-	94	-	-
1963-S214	2438167.87	1963 May 18 0855	Nike Cajun	-	AC6.473	Firefly IV DORIS	AC6.473	-	-	EGL	-	-	-	167	-	-
1963-S215	2438167.92	1963 May 18 1006	Nike Apache	-	NASA 14.140DA	Firefly IV BLANCHE	AC5.471	-	-	EGL	-	-	-	187	-	-
1963-S216	2438169.50	1963 May 20	Nike Apache	-	NASA 14.137IA	Na	-	-	-	SDQ	-	-	-	200?	-	-
1963-S219	2438170.50	1963 May 21	Nike Apache	-	NASA 14.139IA	Na	-	-	-	SDQ	-	-	-	200?	-	-
1963-S220	2438170.50	1963 May 21	Nike Apache	-	NASA 14.138IA	Na	-	-	-	SDQ	-	-	-	200?	-	-
1963-S225	2438171.55	1963 May 22 0110	Nike Cajun	-	NASA 10.13DA	Firefly IV IRENE	-	-	-	EGL	-	-	-	135	-	-
1963-S227	2438171.72	1963 May 22 0510	Nike Apache	-	NASA 14.13CA	GCA-CNRS Na-Li 1	-	-	-	FC	-	-	-	186	-	-
1963-S228	2438171.87	1963 May 22 0851	Nike Apache	-	NASA 14.14CA	GCA-CNRS Na-Li 2	-	-	-	FC	-	-	-	184	-	-
1963-S230	2438172.72	1963 May 23 0513	Nike Apache	-	NASA 14.15CA	GCA-CNRS Na-Li 3	-	-	-	FC	-	-	-	200	-	-
1963-S235	2438173.53	1963 May 24 0045	Nike Apache	-	NASA 14.40CA	GCA Release 26 Na	-	-	-	WI	-	-	-	205	-	-
1963-S236	2438173.88	1963 May 24 0900	Nike Apache	-	NASA 14.41CA	GCA Release 27 Na	-	-	-	WI	-	-	-	204	-	-
1963-S239	2438174.53	1963 May 25 0047	Nike Apache	-	NASA 14.42CA	GCA Release 28 Na	-	-	-	WI	-	-	-	197	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S243	2438178.50	1963 May 29	Nike Javelin	-	TRUMP 1	TRUMP 1	-	-	-	EGL	-	-	-	131	-	-
1963-S654	2438149.50	1963 May	Nike Apache	-	Sandia	Sandia Na 1	-	-	-	KAU	-	-	-	160?	-	-
1963-S655	2438180.50	1963 Jun	Nike Apache	-	Sandia	Sandia Na 2	-	-	-	KAU	-	-	-	160?	-	-
1963-S247	2438180.50	1963 Jun	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S248	2438180.50	1963 Jun	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1963-S249	2438180.50	1963 Jun	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1963-S250	2438180.50	1963 Jun	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1963-A88	2438188.29	1963 Jun 7 1900	Nike	-	Smoke 361	-	-	-	-	CC	-	-	-	13	-	-
1963-S284	2438198.64	1963 Jun 18 0328	Nike Cajun	-	Falling Sphere 3	-	-	-	-	KMR	RN	-	-	177	-	-
1963-A93	2438200.36	1963 Jun 19 2045	Nike	-	Smoke 362	-	-	-	-	CC	-	-	-	16	-	-
1963-S287	2438200.62	1963 Jun 20 0300	Nike Cajun	-	Falling Sphere 4	-	-	-	-	KMR	RN	-	-	180	-	-
1963-S299	2438205.50	1963 Jun 25	Nike Tomahawk	9a	Sandia 152-2	Nitehawk-9	-	-	-	KAU	-	-	-	250	-	-
1963-S312	2438210.50	1963 Jul	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1963-S313	2438210.50	1963 Jul	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1963-S317	2438211.50	1963 Jul 1	Nike Tomahawk	9a	Sandia 152-3	Nitehawk-9	-	-	-	KAU	-	-	-	250	-	-
1963-A101	2438212.25	1963 Jul 1 1800	Nike	-	Smoke 363	-	-	-	-	CC	-	-	-	17	-	-
1963-A102	2438213.50	1963 Jul 3	Nike Tomahawk	9a	Sandia 152-4	Nitehawk-9	-	-	-	KAU	-	-	-	20	-	-
1963-S339	2438225.38	1963 Jul 14 2103:28	Nike Apache	-	NASA 14.88CI	GCA Probe High 1	-	-	-	FC	-	-	-	172	-	-
1963-A107	2438228.31	1963 Jul 17 1930	Nike	-	Smoke 364	-	-	-	-	CC	-	-	-	14	-	-
1963-A110	2438231.33	1963 Jul 20 2000:02	Nike Apache	-	NASA 14.89CI	GCA Probe High 2	-	-	-	FC	-	-	-	5?	-	-
1963-A111	2438231.35	1963 Jul 20 2030:00	Nike Apache	-	NASA 14.90CI	GCA Probe High 3	-	-	-	FC	-	-	-	5?	-	-
1963-S346	2438231.38	1963 Jul 20 2103:00	Nike Apache	-	NASA 14.91CI	GCA Probe High 4	-	-	-	FC	-	-	-	196	-	-
1963-S348	2438231.38	1963 Jul 20 2113:00	Nike Apache	-	NASA 14.92CI	GCA Probe High 5	-	-	-	FC	-	-	-	199	-	-
1963-S349	2438231.40	1963 Jul 20 2140:00	Nike Apache	-	NASA 14.93CI	GCA Probe High 6	-	-	-	FC	-	-	-	200	-	-
1963-S351	2438231.42	1963 Jul 20 2210:00	Nike Apache	-	NASA 14.94CI	GCA Probe High 7	-	-	-	FC	-	-	-	192	-	-
1963-A114	2438237.31	1963 Jul 26 1930	Nike	-	Smoke 365	-	-	-	-	CC	-	-	-	20	-	-
1963-S366	2438237.51	1963 Jul 27 0010	Nike Cajun	-	RTG K63-1	MISU Grenades 1	-	-	-	KRON	-	-	-	126	-	-
1963-S368	2438240.48	1963 Jul 29 2328	Nike Cajun	-	RTG K63-2	MISU Grenades 2	-	-	-	KRON	-	-	-	128	-	-
1963-A115	2438242.31	1963 Jul 31 1930	Nike	-	Smoke 366	-	-	-	-	CC	-	-	-	17	-	-
1963-S370	2438241.50	1963 Aug	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S371	2438241.50	1963 Aug	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S374	2438243.48	1963 Aug 1 2327	Nike Cajun	-	RTG K63-3	MISU Grenades 3	-	-	-	KRON	-	-	-	126	-	-
1963-S377	2438244.48	1963 Aug 2 2333	Nike Cajun	-	NASA 10.75UA	Density (SM Support)	-	-	-	WI	-	-	-	151	-	-
1963-A118	2438249.31	1963 Aug 7 1930	Nike	-	Smoke 367	-	-	-	-	CC	-	-	-	19	-	-
1963-S380	2438249.44	1963 Aug 7 2229	Nike Cajun	-	RTG K63-4	MISU Grenades 4	-	-	-	KRON	-	-	-	130	-	-
1963-A121	2438257.47	1963 Aug 15 2311	Nike	-	Smoke 031	-	-	-	-	WI	-	-	-	20	-	-
1963-S417	2438272.50	1963 Sep	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S418	2438272.50	1963 Sep	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S420	2438273.84	1963 Sep 1 0803	Nike Cajun	-	Ferdinand 5	Ferdinand 5	-	-	-	AND	-	-	-	100?	-	-
1963-S436	2438282.17	1963 Sep 9 1602	Nike Apache	-	NASA 14.06UE	Electrojet	-	-	-	WI	-	-	-	169	-	-
1963-S442	2438284.76	1963 Sep 12 0620	Nike Apache	-	Ferdinand 4	Ferdinand 4	-	-	-	AND	-	-	-	136	-	-
1963-A125	2438292.34	1963 Sep 19 2014	Nike	-	Smoke 032	-	-	-	-	WI	-	-	-	20	-	-
1963-A126	2438292.41	1963 Sep 19 2148	Nike	-	Smoke 033	-	-	-	-	WI	-	-	-	20	-	-
1963-A127	2438296.25	1963 Sep 23 1800	Nike	-	Smoke 034	-	-	-	-	WI	-	-	-	19	-	-
1963-S453	2438296.68	1963 Sep 24 0415	Nike Apache	-	AC5.475	Firefly IV IRMA	-	-	-	EGL	-	-	-	158	-	-
1963-S455	2438297.66	1963 Sep 25 0357	Nike Cajun	-	NASA 10.92NA	Release	-	-	-	WI	-	-	-	143	-	-
1963-S456	2438297.69	1963 Sep 25 0434	Nike Cajun	-	NASA 10.93NA	Release	-	-	-	WI	-	-	-	151	-	-
1963-S462	2438298.69	1963 Sep 26 0437	Nike Apache	-	AC5.476	Firefly IV WANDA	-	-	-	EGL	-	-	-	170	-	-
1963-S463	2438298.73	1963 Sep 26 0530	Nike Apache	-	AC5.478	Firefly IV VIOLET	-	-	-	EGL	-	-	-	170	-	-
1963-A134	2438303.31	1963 Sep 30 1930	Nike	-	Smoke 369	-	-	-	-	CC	-	-	-	20	-	-
1963-S469	2438302.50	1963 Oct	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1963-S473	2438303.95	1963 Oct 1 1047	Nike Apache	-	AC5.477	Firefly IV BECKY	-	-	-	EGL	-	-	-	182	-	-
1963-A135	2438304.34	1963 Oct 1 2012	Nike	-	Smoke 370	-	-	-	-	CC	-	-	-	20	-	-
1963-A136	2438304.40	1963 Oct 1 2134	Nike	-	Smoke 035	-	-	-	-	WI	-	-	-	20	-	-
1963-A137	2438304.50	1963 Oct 2	Nike Tomahawk	9a	Sandia 152-6	Ballistic	-	-	-	KAU	-	-	-	10	-	-
1963-A140	2438307.26	1963 Oct 4 1814	Nike	-	Smoke 036	-	-	-	-	WI	-	-	-	20	-	-
1963-S480	2438310.33	1963 Oct 7 2000	Nike Apache	-	NASA 14.36DI	B field probe	-	-	-	FC	-	-	-	165	-	-
1963-A143	2438312.35	1963 Oct 9 2030	Nike	-	Smoke 371	-	-	-	-	CC	-	-	-	13	-	-
1963-S481	2438312.47	1963 Oct 9 2314	Nike Apache	-	NASA 14.102NA	Release	-	-	-	WI	-	-	-	158	-	-
1963-S483	2438313.47	1963 Oct 10 2313	Nike Apache	-	NASA 14.103NA	Release	-	-	-	WI	-	-	-	158	-	-
1963-A145	2438314.26	1963 Oct 11 1809	Nike	-	Smoke 037	-	-	-	-	WI	-	-	-	22	-	-
1963-A147	2438318.32	1963 Oct 15 1938	Nike	-	Smoke 038	-	-	-	-	WI	-	-	-	16	-	-
1963-A149	2438325.30	1963 Oct 22 1917	Nike	-	Smoke 372	-	-	-	-	CC	-	-	-	16	-	-
1963-S634	2438330.64	1963 Oct 28 0315	Nike Javelin	-	-	TRUMP	-	-	-	CC	-	-	-	130?	-	-
1963-A153	2438333.31	1963 Oct 30 1930	Nike	-	Smoke 374	-	-	-	-	CC	-	-	-	18	-	-
1963-S528	2438334.25	1963 Oct 31 1800	Nike Cajun	-	AC6.341	D-region composition	-	-	-	EGL	-	-	-	112	-	-
1963-A161	2438334.35	1963 Oct 31 2030	Nike	-	Smoke 373	-	-	-	-	CC	-	-	-	19	-	-
1963-S529	2438334.39	1963 Oct 31 2117	Nike Apache	-	NASA 14.111GT	Vibration test	-	-	-	WI	LA2	-	-	134	-	-
1963-S536	2438337.92	1963 Nov 4 1000	Nike Apache	-	Sphere	-	-	-	-	WS	-	-	-	215	-	-
1963-S537	2438337.94	1963 Nov 4 1031	Nike Cajun	-	Falling Sphere 5	-	-	-	-	KMR	RN	-	-	150?	-	-
1963-S538	2438338.02	1963 Nov 4 1226	Nike Cajun	-	Falling Sphere 6	-	-	-	-	KMR	RN	-	-	150?	-	-
1963-S540	2438338.50	1963 Nov 5 0000	Nike Cajun	-	Sphere	-	-	-	-	WS	-	-	-	164	-	-
1963-S543	2438339.50	1963 Nov 6	Nike Cajun	-	Mass spectrometer	-	-	-	-	EGL	-	-	-	100?	-	-
1963-A163	2438340.31	1963 Nov 6 1930	Nike	-	Smoke 375	-	-	-	-	CC	-	-	-	19	-	-
1963-S546	2438343.18	1963 Nov 9 1626	Nike Cajun	-	Falling Sphere 7	-	-	-	-	KMR	RN	-	-	141	-	-
1963-A167	2438346.35	1963 Nov 12 2020	Nike	-	Smoke 039	-	-	-	-	WI	-	-	-	19	-	-
1963-A168	2438347.34	1963 Nov 13 2011	Nike	-	Smoke 376	-	-	-	-	CC	-	-	-	20	-	-
1963-S555	2438348.12	1963 Nov 14 1458	Nike Cajun	-	Falling Sphere 8	-	-	-	-	KMR	RN	-	-	127	-	-
1963-A170	2438349.31	1963 Nov 15 1933	Nike	-	Smoke 377	-	-	-	-	CC	-	-	-	20	-	-
1963-S562	2438354.50	1963 Nov 21	Nike Tomahawk	9a	Sandia 152-7	Ballistic	-	-	-	KAU	-	-	-	292	-	-
1963-S563	2438355.04	1963 Nov 21 1255	Nike Apache	-	NASA 14.128IA	ISRO 10.01 (Na)	TERLS-001	-	-	TERLS	-	-	-	208	-	-
1963-A175	2438355.31	1963 Nov 21 1930	Nike	-	Smoke 378	-	-	-	-	CC	-	-	-	19	-	-
1963-S565	2438356.38	1963 Nov 22 2100	Nike Tomahawk	9a	Sandia 152-9	HRT	-	-	-	KAU	-	-	-	292	-	-
1963-S568	2438360.26	1963 Nov 26 1816	Nike Apache	-	NASA 14.10UA	UM Composition 3/Den	-	-	-	WI	-	-	-	172	-	-
1963-S569	2438360.28	1963 Nov 26 1844	Nike Cajun	-	NASA 10.131UA	Sphere/Structure	-	-	-	WI	-	-	-	151	-	-
1963-S577	2438363.50	1963 Dec	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A182	2438369.35	1963 Dec 5 2025	Nike	-	Smoke 379	-	-	-	-	CC	-	-	-	15	-	-
1963-S587	2438371.05	1963 Dec 7 1311	Nike Cajun	-	NASA 10.55GA	GSFC Grenade 35	-	-	-	WI	-	-	-	103	-	-
1963-S588	2438371.07	1963 Dec 7 1343:00	Nike Apache	-	NASA 14.21UA	UM Pitot 3	-	-	-	WI	-	-	-	141	-	-
1963-S590	2438372.73	1963 Dec 9 0524	Astrobee 200	-	AC15.610	Ionization detector	-	-	-	FC	-	-	-	242	-	-
1963-M53	2438377.44	1963 Dec 13 2232	Nike Apache	-	NASA 14.37GI	-	-	-	-	WS	-	-	-	73	-	-
1963-S607	2438381.50	1963 Dec 18	Nike Cajun	-	Falling Sphere 9	-	-	-	-	KMR	RN	-	-	100?	-	-
1963-S608	2438381.50	1963 Dec 18	Nike Cajun	-	Falling Sphere 10	-	-	-	-	KMR	RN	-	-	100?	-	-
1963-A187	2438384.23	1963 Dec 20 1730	Nike	-	Smoke 380	-	-	-	-	CC	-	-	-	16	-	-
1964-S09	2438394.50	1964 Jan	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S10	2438394.50	1964 Jan	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S19	2438403.05	1964 Jan 8 1315	Nike Apache	-	NASA 14.129IA	ISRO 10.02	TERLS-002	-	-	TERLS	-	-	-	187	-	-
1964-S25	2438406.52	1964 Jan 12 0026	Nike Apache	-	NASA 14.130IA	ISRO 10.03	TERLS-003	-	-	TERLS	-	-	-	187	-	-
1964-S28	2438408.50	1964 Jan 14	Nike Tomahawk	9a	Sandia 152-21	Ballistic	-	-	-	KAU	-	-	-	292	-	-
1964-S32	2438409.60	1964 Jan 15 0231	Nike Apache	-	NASA 14.150UE Sammy	Rice Airglow/Aur. 1	-	-	-	WI	-	-	-	90	-	-
1964-A04	2438410.44	1964 Jan 15 2234	Nike Apache	-	NASA 14.38CA	GCA Release 29 Na	-	-	-	WI	-	-	-	45	-	-
1964-S33	2438410.44	1964 Jan 15 2240	Nike Apache	-	NASA 14.106CA	GCA Release 30 Na	-	-	-	WI	-	-	-	114	-	-
1964-S37	2438410.71	1964 Jan 16 0500	Nike Apache	-	NASA 14.125CA	GCA Release 31 Na	-	-	-	WI	-	-	-	170	-	-
1964-S38	2438410.98	1964 Jan 16 1134	Nike Apache	-	NASA 14.126CA	GCA Release 32 Na	-	-	-	WI	-	-	-	200	-	-
1964-A07	2438417.29	1964 Jan 22 1852	Nike	-	Smoke 381	-	-	-	-	CC	-	-	-	18	-	-
1964-A08	2438417.35	1964 Jan 22 2027	Nike	-	Smoke 040	-	-	-	-	WI	-	-	-	22	-	-
1964-S48	2438418.27	1964 Jan 23 1825	Nike Cajun	-	Falling Sphere 11	-	-	-	-	KMR	RN	-	-	172	-	-
1964-A09	2438417.50	1964 Jan 23	Nike Tomahawk	12	Sandia 152-11	LRL 12" Payload Test	-	-	-	KAU	-	-	-	5	-	-
1964-S49	2438418.51	1964 Jan 24 0016	Nike Cajun	-	NASA 10.61GA	GSFC Grenade 36 (1W)	-	-	-	WI	-	-	-	119	-	-
1964-A10	2438418.52	1964 Jan 24 0036	Nike Cajun	-	NASA 10.86GA	GSFC Grenade 37 (1C)	-	-	-	FC	-	-	-	21	-	-
1964-A11	2438419.29	1964 Jan 24 1900	Nike	-	Smoke 382	-	-	-	-	CC	-	-	-	18	-	-
1964-S51	2438419.72	1964 Jan 25 0514	Nike Apache	-	NASA 14.79UE UNH64-1	ISRO 20.01	TERLS-004	-	-	TERLS	-	-	-	164	-	-
1964-S54	2438421.69	1964 Jan 27 0430	Nike Apache	-	NASA 14.80UE UNH64-2	ISRO 20.02	TERLS-005	-	-	TERLS	-	-	-	164	-	-
1964-S56	2438422.50	1964 Jan 28	Nike Tomahawk	9a	Sandia 152-8	Density	-	-	-	KAU	-	-	-	290	-	-
1964-S60	2438423.67	1964 Jan 29 0411	Nike Cajun	-	NASA 10.71GA	GSFC Grenade 38 (2W)	-	-	-	WI	-	-	-	254	-	-
1964-S63	2438423.68	1964 Jan 29 0417	Nike Cajun	-	NASA 10.89GA	GSFC Grenade 39 (2C)	-	-	-	FC	-	-	-	122	-	-
1964-S61	2438423.68	1964 Jan 29 0418	Nike Cajun	-	NASA 10.81GA	GSFC Grenade 40 (2A)	-	-	-	ASC	-	-	-	124	-	-
1964-S62	2438423.92	1964 Jan 29 1000	Nike Apache	-	NASA 14.81UE UNH64-3	ISRO 20.03	TERLS-006	-	-	TERLS	-	-	-	167	-	-
1964-A15	2438424.30	1964 Jan 29 1919	Nike	-	Smoke 041	-	-	-	-	WI	-	-	-	20	-	-
1964-S67	2438426.06	1964 Jan 31 1330	Nike Apache	-	NASA 14.82UE UNH64-4	ISRO 20.04	TERLS-007	-	-	TERLS	-	-	-	167	-	-
1964-S822	2438427.50	1964 Feb 2	Nike Apache	-	Sandia	Sandia TMA	-	-	-	KAU	-	-	-	100?	-	-
1964-S823	2438429.50	1964 Feb 4?	Nike Apache	-	Sandia	Sandia TMA	-	-	-	KAU	-	-	-	100?	-	-
1964-S76	2438429.57	1964 Feb 4 0135:00	Nike Apache	-	NASA 14.22UA	UM Pitot 4	-	-	-	ASC	-	-	-	158	-	-
1964-S73	2438429.57	1964 Feb 4 0146	Nike Cajun	-	NASA 10.62GA	GSFC Grenade 41 (3W)	-	-	-	WI	-	-	-	116	-	-
1964-A17	2438430.26	1964 Feb 4 1820	Nike	-	Smoke 042	-	-	-	-	WI	-	-	-	19	-	-
1964-S77	2438430.53	1964 Feb 5 0039	Nike Cajun	-	NASA 10.87GA	GSFC Grenade 42 (4C)	-	-	-	FC	-	-	-	126	-	-
1964-S78	2438430.64	1964 Feb 5 0320	Nike Cajun	-	NASA 10.63GA	GSFC Grenade 43 (4W)	-	-	-	WI	-	-	-	119	-	-
1964-S824	2438431.50	1964 Feb 6?	Nike Apache	-	Sandia	Sandia TMA	-	-	-	KAU	-	-	-	100?	-	-
1964-S825	2438432.50	1964 Feb 7	Nike Apache	-	Sandia	Sandia Na	-	-	-	KAU	-	-	-	100?	-	-
1964-S89	2438438.35	1964 Feb 12 2030	Nike Apache	-	NASA 14.28GT	Fin test	-	-	-	WI	-	-	-	145	-	-
1964-S93	2438438.69	1964 Feb 13 0429	Nike Cajun	-	NASA 10.88GA	GSFC Grenade 44 (5C)	-	-	-	FC	-	-	-	119	-	-
1964-S94	2438438.69	1964 Feb 13 0430	Nike Cajun	-	NASA 10.136GA	GSFC Grenade 45 (5W)	-	-	-	WI	-	-	-	119	-	-
1964-S95	2438438.70	1964 Feb 13 0455	Nike Cajun	-	NASA 10.82GA	GSFC Grenade 46 (5A)	-	-	-	ASC	-	-	-	119	-	-
1964-S104	2438444.41	1964 Feb 18 2150	Nike Apache	-	ERDA 004	Sphere	-	-	-	WS	-	-	-	205	-	-
1964-A26	2438445.38	1964 Feb 19 2100	Nike	-	Smoke 383	-	-	-	-	CC	-	-	-	14	-	-
1964-S106	2438445.40	1964 Feb 19 2130	Nike Cajun	-	ERDA 005	Sphere	-	-	-	WS	-	-	-	154	-	-
1964-S112	2438445.81	1964 Feb 20 0723	Nike Apache	-	NASA 14.43GE	Auroral particles	-	-	-	FC	-	-	-	204	-	-
1964-A27	2438446.27	1964 Feb 20 1830	Nike	-	Smoke 384	-	-	-	-	CC	-	-	-	19	-	-
1964-A29	2438452.37	1964 Feb 26 2055	Nike	-	Smoke 385	-	-	-	-	CC	-	-	-	15	-	-
1964-S126	2438454.73	1964 Feb 29 0532	Nike Apache	-	NASA 14.44GE	Auroral particles	-	-	-	FC	-	-	-	204	-	-
1964-S124	2438454.50	1964 Mar	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S134	2438461.61	1964 Mar 7 0245	Nike Cajun	-	NASA 10.137GA	GSFC Grenade 47	-	-	-	WI	-	-	-	114	-	-
1964-S142	2438466.25	1964 Mar 11 1800	Nike Cajun	-	AC6.342	Ion composition	-	-	-	EGL	-	-	-	100	-	-
1964-U01	2438466.68	1964 Mar 12 0417	Nike Cajun	-	Meteor 2/3	-	Meteor 2	-	-	WI	-	-	-	110	-	-
1964-S144	2438466.62	1964 Mar 12 0258:40	Nike Apache	-	Ferdinand 6	Ferdinand 6	-	-	-	AND	-	-	-	146	-	-
1964-S148	2438468.26	1964 Mar 13 1820	Nike Cajun	-	Falling Sphere 12	-	-	-	-	KMR	RN	-	-	174	-	-
1964-A35	2438468.27	1964 Mar 13 1830	Nike	-	Smoke 386	-	-	-	-	CC	-	-	-	17	-	-
1964-A36	2438468.27	1964 Mar 13 1836	Nike	-	Smoke 043	-	-	-	-	WI	-	-	-	21	-	-
1964-S151	2438469.61	1964 Mar 15 0244	Nike Apache	-	Ferdinand 7	Ferdinand 7	-	-	-	AND	-	-	-	134	-	-
1964-A38	2438472.32	1964 Mar 17 1940	Nike	-	Smoke 044	-	-	-	-	WI	-	-	-	17	-	-
1964-S156	2438472.50	1964 Mar 18	Nike Tomahawk	9	Sandia 152-45	Ballistic	-	-	-	KAU	-	-	-	315	-	-
1964-S157	2438472.76	1964 Mar 18 0611	Nike Apache	-	NASA 14.151UE	Rice Airglow/Aur. 2	-	-	-	FC	-	-	-	151	-	-
1964-A39	2438473.27	1964 Mar 18 1830	Nike	-	Smoke 387	-	-	-	-	CC	-	-	-	17	-	-
1964-S158	2438474.15	1964 Mar 19 1542	Nike Apache	-	Ferdinand 8	Ferdinand 8	-	-	-	AND	-	-	-	139	-	-
1964-S160	2438474.72	1964 Mar 20 0523	Nike Apache	-	NASA 14.152UE	Rice Airglow/Aur. 3	-	-	-	FC	-	-	-	151	-	-
1964-A40	2438475.34	1964 Mar 20 2005	Nike	-	Smoke 388	-	-	-	-	CC	-	-	-	15	-	-
1964-A42	2438477.50	1964 Mar 23	Nike Tomahawk	12	Sandia 152-12	LRL 12" Payload Test	-	-	-	KAU	-	-	-	20	-	-
1964-S163	2438477.94	1964 Mar 23 1037	Nike Apache	-	NASA 14.153UE	Rice Airglow/Aur. 4	-	-	-	FC	-	-	-	153	-	-
1964-S166	2438478.68	1964 Mar 24 0422:54	Nike Apache	-	NASA 14.118GE	Auroral Electrons	-	-	-	FC	-	-	-	184	-	-
1964-S167	2438479.50	1964 Mar 25	Nike Apache	-	-	-	-	-	-	SMLC	Rita	-	-	200?	-	-
1964-S169	2438479.64	1964 Mar 25 0325	Nike Apache	-	NASA 14.120GE	-	-	-	-	FC	-	-	-	179	-	-
1964-S172	2438480.65	1964 Mar 26 0330	Nike Apache	-	NASA 14.119GE	-	-	-	-	FC	-	-	-	193	-	-
1964-A45	2438482.29	1964 Mar 27 1904	Nike	-	Smoke 046	-	-	-	-	WI	-	-	-	14	-	-
1964-S176	2438484.50	1964 Mar 30	Nike Apache	-	-	-	-	-	-	SMLC	Rita	-	-	200?	-	-
1964-S175	2438485.61	1964 Mar 31 0233:30	Nike Javelin	-	-	TRUMP (MM+30s)	-	-	-	CC	-	-	-	131	-	-
1964-A47	2438486.27	1964 Mar 31 1830	Nike	-	Smoke 389	-	-	-	-	CC	-	-	-	15	-	-
1964-S179	2438485.50	1964 Apr	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-A48	2438487.27	1964 Apr 1 1830	Nike	-	Smoke 390	-	-	-	-	CC	-	-	-	14	-	-
1964-S185	2438487.50	1964 Apr 2	Nike Apache	-	-	-	-	-	-	SMLC	Rita	-	-	200?	-	-
1964-A49	2438489.25	1964 Apr 3 1800	Nike	-	Smoke 391	-	-	-	-	CC	-	-	-	18	-	-
1964-S196	2438495.10	1964 Apr 9 1422	Nike Apache	-	NASA 14.134IA	Rehbar 4? (Na)	-	-	-	SOM	-	-	-	160	-	-
1964-A51	2438495.40	1964 Apr 9 2129	Nike	-	Smoke 047	-	-	-	-	WI	-	-	-	19	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S198	2438496.77	1964 Apr 11 0629	Nike Apache	-	NASA 14.121GE	Auroral emissions	-	-	-	FC	-	-	-	172	-	-
1964-A53	2438499.32	1964 Apr 13 1945	Nike	-	Smoke 392	-	-	-	-	CC	-	-	-	19	-	-
1964-S208	2438500.56	1964 Apr 15 0121:42	Nike Apache	-	NASA 14.24UA	UM Pitot 5/Fire cal	-	-	-	ASC	-	-	-	158	-	-
1964-S209	2438501.16	1964 Apr 15 1556:00	Nike Apache	-	NASA 14.23UA	UM Pitot 6/Fire cal	-	-	-	ASC	-	-	-	158	-	-
1964-S206	2438501.78	1964 Apr 16 0639	Nike Apache	-	NASA 14.122GE	Auroral emissions	-	-	-	FC	-	-	-	157	-	-
1964-S212	2438502.38	1964 Apr 16 2105:00	Nike Apache	-	NASA 14.143UI	UIUC-GCA Ionos 1	-	-	-	WI	-	-	-	168	-	-
1964-A55	2438503.28	1964 Apr 17 1844	Nike	-	Smoke 048	-	-	-	-	WI	-	-	-	17	-	-
1964-S214	2438503.47	1964 Apr 17 2315	Nike Cajun	-	NASA 10.142GA	Sphere	-	-	-	WI	-	-	-	149	-	-
1964-S215	2438503.53	1964 Apr 18 0038	Nike Cajun	-	NASA 10.73GA	GSFC Grenade 48	-	-	-	FC	-	-	-	119	-	-
1964-S216	2438503.54	1964 Apr 18 0059	Nike Cajun	-	NASA 10.83GA	GSFC Grenade 49	-	-	-	WI	-	-	-	119	-	-
1964-S787	2438507.50	1964 Apr 22	Nike Apache	-	-	SPEEDBALL 048 SN16	-	-	-	WS	-	-	-	150?	-	-
1964-S222	2438507.79	1964 Apr 22 0654	Nike Apache	-	NASA 14.123GE	Auroral emissions	-	-	-	FC	-	-	-	166	-	-
1964-A58	2438508.33	1964 Apr 22 2000	Nike	-	Smoke 393	-	-	-	-	CC	-	-	-	16	-	-
1964-S229	2438515.50	1964 May	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S230	2438515.50	1964 May	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-A62	2438520.26	1964 May 4 1815	Nike	-	Smoke 049	-	-	-	-	WI	-	-	-	18	-	-
1964-A63	2438521.23	1964 May 5 1734	Nike	-	Smoke 050	-	-	-	-	WI	-	-	-	18	-	-
1964-A64	2438522.26	1964 May 6 1818	Nike	-	Smoke 051	-	-	-	-	WI	-	-	-	19	-	-
1964-A65	2438522.28	1964 May 6 1843	Nike	-	Smoke 052	-	-	-	-	WI	-	-	-	14	-	-
1964-S234	2438522.60	1964 May 07 0231:00	Nike Cajun	?	-	-	-	-	-	PM	-	-	-	110	-	-
1964-S239	2438527.50	1964 May 12	Nike Tomahawk	9	Sandia 152-52	Ballistic	-	-	-	KAU	-	-	-	313	-	-
1964-S240	2438527.98	1964 May 12 1125	Nike Cajun	-	Falling Sphere 13	-	-	-	-	KMR	RN	-	-	144	-	-
1964-S789	2438529.50	1964 May 14	Nike Apache	-	-	SPEEDBALL 050 SN17	-	-	-	WS	-	-	-	150?	-	-
1964-S242	2438529.50	1964 May 14	Nike Tomahawk	9	Sandia 152-50	Ballistic	-	-	-	KAU	-	-	-	313	-	-
1964-S801	2438530.50	1964 May 15	Nike Cajun	-	Falling sphere	-	-	-	-	KMR	RN	-	-	110	-	-
1964-S246	2438530.50	1964 May 15	Nike Tomahawk	9	Sandia 152-51	Ballistic	-	-	-	KAU	-	-	-	325	-	-
1964-S250	2438533.50	1964 May 18	Nike Tomahawk	9	Sandia 152-46	Ballistic HRT	-	-	-	KAU	-	-	-	300	-	-
1964-S251	2438533.76	1964 May 18 0620	Nike Apache	-	AE5.479	-	-	-	-	EGL	-	-	-	208	-	-
1964-S252	2438533.76	1964 May 18 0620	Nike Apache	-	-	REDLAMP TMA	-	-	-	CC	-	-	-	152	-	-
1964-S253	2438534.27	1964 May 18 1835	Nike Apache	-	-	REDLAMP SF6	-	-	-	CC	-	-	-	190	-	-
1964-S254	2438534.78	1964 May 19 0645	Nike Apache	-	AE5.481 -	REDLAMP TMA	-	-	-	CC	-	-	-	150	-	-
1964-S255	2438535.25	1964 May 19 1800	Nike Apache	-	AE5.482 -	REDLAMP SF6	-	-	-	CC	-	-	-	267	-	-
1964-A70	2438535.27	1964 May 19 1822	Nike	-	Smoke 053	-	-	-	-	WI	-	-	-	13	-	-
1964-S256	2438535.50	1964 May 20	Nike Apache	-	-	Noctilucent clouds	-	-	-	WS	-	-	-	200?	-	-
1964-S257	2438535.50	1964 May 20	Nike Tomahawk	12	Sandia 152-22	Stovepipe Ballistic	-	-	-	KAU	-	-	-	142	-	-
1964-A71	2438536.27	1964 May 20 1830	Nike	-	Smoke 394	-	-	-	-	CC	-	-	-	17	-	-
1964-S260	2438536.50	1964 May 21	Nike Tomahawk	9a	Sandia 152-10	Density	-	-	-	KAU	-	-	-	329	-	-
1964-A73	2438537.27	1964 May 21 1830	Nike	-	Smoke 395	-	-	-	-	CC	-	-	-	14	-	-
1964-A74	2438538.32	1964 May 22 1943	Nike	-	Smoke 054	-	-	-	-	WI	-	-	-	15	-	-
1964-S263	2438540.50	1964 May 25	Nike Tomahawk	9	Sandia 152-28	LASL Sun	-	-	-	KAU	-	-	-	290	-	-
1964-A75	2438541.34	1964 May 25 2005	Nike	-	Smoke 396	-	-	-	-	CC	-	-	-	18	-	-
1964-S266	2438542.50	1964 May 27	Nike Tomahawk	9	Sandia 152-30	LASL Sun	-	-	-	KAU	-	-	-	290	-	-
1964-A76	2438543.31	1964 May 27 1930	Nike	-	Smoke 397	-	-	-	-	CC	-	-	-	17	-	-
1964-A77	2438543.59	1964 May 28 0215	Nike Apache	-	NASA 14.54DA	Air sampling	-	-	-	WS	-	-	-	48	-	-
1964-S273	2438546.50	1964 Jun	Nike Apache	-	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1964-S275	2438546.50	1964 Jun	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S807	2438546.50	1964 Jun	Nike Apache	-	ARPA PRESS	Mass Spec	-	-	-	KMR	-	-	-	100?	-	-
1964-S808	2438546.50	1964 Jun	Nike Apache	-	ARPA PRESS	Mass Spec	-	-	-	KMR	-	-	-	100?	-	-
1964-S274	2438550.50	1964 Jun 4	Nike Apache	-	-	Propagation study	-	-	-	WS	-	-	-	189	-	-
1964-S820	2438551.50	1964 Jun 5	Nike Apache	-	-	Propagation study	-	-	-	WS	-	-	-	189	-	-
1964-A210	2438551.50	1964 Jun 5	Nike Apache	-	ARPA PRESS	Mass Spec	-	-	-	WS	-	-	-	43	-	-
1964-S278	2438550.28	1964 Jun 3 1845	Nike Apache	-	NASA 14.33GI	-	-	-	-	WI	-	-	-	140	-	-
1964-A81	2438556.29	1964 Jun 9 1900	Nike	-	Smoke 398	-	-	-	-	CC	-	-	-	16	-	-
1964-S287	2438556.71	1964 Jun 10 0503	Astrobee 200	-	CRL AC15.373	Sphere	-	-	-	PA	-	-	-	343	-	-
1964-S289	2438557.13	1964 Jun 10 1510:00	Nike Apache	-	NASA 14.155GE	B Field 1	-	-	-	WI	-	-	-	146	-	-
1964-A82	2438557.26	1964 Jun 10 1815	Nike	-	Smoke 399	-	-	-	-	CC	-	-	-	16	-	-
1964-A84	2438558.27	1964 Jun 11 1834	Nike	-	Smoke 055	-	-	-	-	WI	-	-	-	15	-	-
1964-A85	2438559.29	1964 Jun 12 1900	Nike	-	Smoke 400	-	-	-	-	CC	-	-	-	17	-	-
1964-A88	2438562.29	1964 Jun 15 1900	Nike	-	Smoke 401	-	-	-	-	CC	-	-	-	17	-	-
1964-S297	2438563.54	1964 Jun 17 0101	Nike Cajun	-	Falling Sphere 14	-	-	-	-	KMR	RN	-	-	140	-	-
1964-A90	2438564.29	1964 Jun 17 1900	Nike	-	Smoke 402	-	-	-	-	CC	-	-	-	15	-	-
1964-S299	2438564.60	1964 Jun 18 0219	Nike Cajun	-	Falling Sphere 15	-	-	-	-	KMR	RN	-	-	149	-	-
1964-S301	2438565.19	1964 Jun 18 1630	Nike Cajun	-	Falling Sphere 16	-	-	-	-	KMR	RN	-	-	148	-	-
1964-S302	2438565.56	1964 Jun 19 0129	Nike Cajun	-	PMR-15	-	-	-	-	KMR	-	-	-	100?	-	-
1964-S304	2438566.15	1964 Jun 19 1540	Nike Cajun	-	PMR-16	-	-	-	-	KMR	-	-	-	100?	-	-
1964-S310	2438572.12	1964 Jun 25 1457:39	Nike Apache	-	NASA 14.156GE	B Field 2	-	-	-	WI	-	-	-	150	-	-
1964-S311	2438572.54	1964 Jun 26 0052:30	Nike Apache	-	NASA 14.157GE	B Field 3	-	-	-	WI	-	-	-	156	-	-
1964-S314	2438575.50	1964 Jun 29	Nike Tomahawk	9	Sandia 152-57	Ballistic	-	-	-	KAU	-	-	-	0	-	-
1964-S321	2438578.50	1964 Jul 2	Nike Tomahawk	9	Sandia 152-58	Ballistic	-	-	-	KAU	-	-	-	298	-	-
1964-S324	2438581.50	1964 Jul 05	Nike Apache	-	-	-	-	-	-	WS	-	-	-	200?	-	-
1964-S325	2438582.50	1964 Jul 6	Nike Tomahawk	9	Sandia 152-62	Ballistic (Sun)	-	-	-	KAU	-	-	-	288	-	-
1964-A102	2438583.32	1964 Jul 6 1945	Nike	-	Smoke 403	-	-	-	-	CC	-	-	-	17	-	-
1964-S338	2438585.68	1964 Jul 9 0413	Nike Apache	-	NASA 14.154UE	Rice Airglow/Aur. 5	-	-	-	WI	-	-	-	167	-	-
1964-S356	2438592.23	1964 Jul 15 1730	Nike Tomahawk	9	Sandia 152-18	LRL SAP Camera	-	-	-	KAU	-	-	-	270?	-	-
1964-S348	2438591.54	1964 Jul 15 0058	Nike Apache	-	NASA 14.49CA	GCA Release 33 Na	-	-	-	WI	-	-	-	191	-	-
1964-S350	2438591.67	1964 Jul 15 0409	Nike Apache	-	NASA 14.50CA	GCA Release 34 Na	-	-	-	WI	-	-	-	192	-	-
1964-S351	2438591.83	1964 Jul 15 0800	Nike Apache	-	NASA 14.144UI	UIUC-GCA Ionos 2/2a	-	-	-	WI	-	-	-	154	-	-
1964-S352	2438591.84	1964 Jul 15 0805	Nike Apache	-	NASA 14.51CA	GCA Release 35 Na	-	-	-	WI	-	-	-	190	-	-
1964-S353	2438591.88	1964 Jul 15 0906	Nike Apache	-	NASA 14.52CA	GCA Release 36 Na	-	-	-	WI	-	-	-	191	-	-
1964-S354	2438591.89	1964 Jul 15 0920	Nike Apache	-	NASA 14.145UI	UIUC-GCA Ionos 3/2b	-	-	-	WI	-	-	-	161	-	-
1964-S355	2438591.93	1964 Jul 15 1025	Nike Apache	-	NASA 14.146UI	UIUC-GCA Ionos 4/2c	-	-	-	WI	-	-	-	171	-	-
1964-A106	2438592.26	1964 Jul 15 1820	Nike	-	Smoke 404	-	-	-	-	CC	-	-	-	16	-	-
1964-S361	2438593.18	1964 Jul 16 1622	Nike Apache	-	NASA 14.127GI	Antenna impedance	-	-	-	WI	-	-	-	137	-	-
1964-S368	2438593.85	1964 Jul 17 0824	Nike Apache	-	Missile compression	REDLAMP	-	-	-	CC	-	-	-	105	-	-
1964-S370	2438595.02	1964 Jul 18 1222	Astrobee 200	-	CRL AC15.363	Dayglow spectra	-	-	-	FC	-	-	-	207	-	-
1964-S372	2438597.23	1964 Jul 20 1730	Nike Tomahawk	9	Sandia 152-20	LRL SAP Camera	-	-	-	KAU	-	-	-	287	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S373	2438597.50	1964 Jul 21	Nike Tomahawk	9	Sandia 152-31	LASL Sun	-	-	-	KAU	-	-	-	270?	-	-
1964-S375	2438598.50	1964 Jul 22	Nike Tomahawk	9	Sandia 152-33	LASL Sun	-	-	-	KAU	-	-	-	321	-	-
1964-A112	2438605.25	1964 Jul 28 1800	Nike	-	Smoke 405	-	-	-	-	CC	-	-	-	14	-	-
1964-S385	2438605.34	1964 Jul 28 2006	Nike Apache	-	-	Sphere	-	-	-	WS	LC33	-	-	200?	-	-
1964-S388	2438605.90	1964 Jul 29 0930	Nike Apache	-	-	Sphere	-	-	-	WS	-	-	-	200?	-	-
1964-A113	2438606.25	1964 Jul 29 1800	Nike	-	Smoke 406	-	-	-	-	CC	-	-	-	19	-	-
1964-S390	2438606.50	1964 Jul 30	Nike Tomahawk	9	Sandia 152-48	Density	-	-	-	KAU	-	-	-	311	-	-
1964-A115	2438607.39	1964 Jul 30 2117	Nike	-	Smoke 056	-	-	-	-	WI	-	-	-	16	-	-
1964-S394	2438607.50	1964 Aug	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	150?	-	-
1964-S395	2438607.50	1964 Aug	Nike Apache	-	BMTS	SPEEDBALL II 55 SN24	-	-	-	WS	-	-	-	150?	-	-
1964-S401	2438612.50	1964 Aug 5	Nike Tomahawk	9	Sandia 152-43	LASL Sun	-	-	-	KAU	-	-	-	300	-	-
1964-A117	2438612.59	1964 Aug 5 0207	Nike Cajun	-	NASA 10.114GA	GSFC Grenade 50	-	-	-	ASC	-	-	-	28	-	-
1964-S406	2438614.48	1964 Aug 6 2329	Nike Apache	-	NASA 14.55DA	RTG K64-S-1 Air samp	-	-	-	KRON	-	-	-	125	-	-
1964-S410	2438614.51	1964 Aug 7 0016	Nike Cajun	-	NASA 10.138GA	RTG K64-G-1 Grenades	-	-	-	KRON	-	-	-	130	-	-
1964-S411	2438614.54	1964 Aug 7 0100	Nike Cajun	-	NASA 10.78GA	GSFC Grenade 51 (W)	-	-	-	WI	-	-	-	119	-	-
1964-S413	2438615.50	1964 Aug 8	Nike Tomahawk	9	Sandia 152-42	LASL Sun	-	-	-	KAU	-	-	-	307	-	-
1964-S414	2438615.67	1964 Aug 8 0400	Nike Cajun	-	NASA 10.104GA	GSFC Grenade 52 (C)	-	-	-	FC	-	-	-	139	-	-
1964-S420	2438619.53	1964 Aug 12 0043	Nike Apache	-	NASA 14.56DA	RTG K64-S-2 Air samp	-	-	-	KRON	-	-	-	121	-	-
1964-S421	2438619.55	1964 Aug 12 0111	Nike Cajun	-	NASA 10.139GA	RTG K64-G-2 Grenades	-	-	-	KRON	-	-	-	130	-	-
1964-S422	2438619.58	1964 Aug 12 0149	Nike Cajun	-	NASA 10.84GA	GSFC Grenade 53 (W)	-	-	-	WI	-	-	-	114	-	-
1964-S423	2438619.59	1964 Aug 12 0215	Nike Cajun	-	NASA 10.105GA	GSFC Grenade 54 (C)	-	-	-	FC	-	-	-	126	-	-
1964-A122	2438622.45	1964 Aug 14 2254	Nike	-	Smoke 057	-	-	-	-	WI	-	-	-	17	-	-
1964-S426	2438623.54	1964 Aug 16 0053	Nike Apache	-	NASA 14.57DA	RTG K64-S-3 Air samp	-	-	-	KRON	-	-	-	119	-	-
1964-S427	2438623.55	1964 Aug 16 0113	Nike Cajun	-	NASA 10.140GA	RTG K64-G-3 Grenades	-	-	-	KRON	-	-	-	135	-	-
1964-S428	2438623.64	1964 Aug 16 0315	Nike Cajun	-	NASA 10.85GA	GSFC Grenade 55 (W)	-	-	-	WI	-	-	-	122	-	-
1964-S429	2438623.75	1964 Aug 16 0553	Nike Cajun	-	NASA 10.115GA	GSFC Grenade 56 (A)	-	-	-	ASC	-	-	-	123	-	-
1964-S431	2438624.52	1964 Aug 17 0029	Nike Apache	-	NASA 14.58DA	RTG K64-S-4 Air samp	-	-	-	KRON	-	-	-	124	-	-
1964-S432	2438624.53	1964 Aug 17 0049	Nike Cajun	-	NASA 10.141GA	RTG K64-G-4 Grenades	-	-	-	KRON	-	-	-	132	-	-
1964-S433	2438625.04	1964 Aug 17 1255	Nike Cajun	-	NASA 10.116GA	GSFC Grenade 57 (A)	-	-	-	ASC	-	-	-	122	-	-
1964-S434	2438625.55	1964 Aug 18 0115	Nike Cajun	-	NASA 10.106GA	GSFC Grenade 58 (C)	-	-	-	FC	-	-	-	124	-	-
1964-S435	2438625.56	1964 Aug 18 0125	Nike Cajun	-	NASA 10.113GA	GSFC Grenade 59 (W)	-	-	-	WI	-	-	-	120	-	-
1964-A123	2438627.26	1964 Aug 19 1811	Nike	-	Smoke 058	-	-	-	-	WI	-	-	-	17	-	-
1964-S443	2438633.50	1964 Aug 26	Nike Cajun	-	-	EM Absorption	-	-	-	EGL	-	-	-	100?	-	-
1964-S445	2438634.21	1964 Aug 26 1701	Nike Apache	-	NASA 14.34GI	-	-	-	-	WI	-	-	-	154	-	-
1964-S449	2438638.50	1964 Sep	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S450	2438638.50	1964 Sep	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S451	2438638.50	1964 Sep	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S452	2438638.50	1964 Sep	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-A129	2438642.27	1964 Sep 3 1836	Nike	-	Smoke 059	-	-	-	-	WI	-	-	-	16	-	-
1964-A130	2438643.21	1964 Sep 4 1701	Nike	-	Smoke 060	-	-	-	-	WI	-	-	-	16	-	-
1964-S453	2438643.50	1964 Sep 5	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-A132	2438648.23	1964 Sep 9 1735	Nike	-	Smoke 061	-	-	-	-	WI	-	-	-	15	-	-
1964-A133	2438654.25	1964 Sep 15 1758	Nike	-	Smoke 062	-	-	-	-	WI	-	-	-	19	-	-
1964-S474	2438657.23	1964 Sep 18 1725	Nike Apache	-	-	REDLAMP/ne,particles	-	-	-	CC	-	-	-	105	-	-
1964-S797	2438662.50	1964 Sep 24	Nike Apache	-	-	SPEEDBALL II 59 SN26	-	-	-	WS	-	-	-	150?	-	-
1964-A137	2438664.34	1964 Sep 25 2012	Nike	-	Smoke 063	-	-	-	-	WI	-	-	-	18	-	-
1964-S798	2438668.50	1964 Sep 30	Nike Apache	-	-	SPEEDBALL II 60 SN27	-	-	-	WS	-	-	-	150?	-	-
1964-S495	2438669.50	1964 Oct 1	Nike Apache	-	BMTS	SPEEDBALL II 61 SN28	-	-	-	WS	-	-	-	150?	-	-
1964-S507	2438676.46	1964 Oct 7 2304	Nike Apache	-	NASA 14.195CA	GCA Release 37 TMA	-	-	-	WI	-	-	-	172	-	-
1964-S776	2438676.47	1964 Oct 7 2319	Nike Apache	-	NASA 14.158GE	B Field 4	-	-	-	WI	-	-	-	140	-	-
1964-S510	2438676.93	1964 Oct 8 1023	Nike Apache	-	NASA 14.194CA	GCA Release 38 Na	-	-	-	WI	-	-	-	160	-	-
1964-S511	2438676.94	1964 Oct 8 1034:00	Nike Apache	-	NASA 14.159GE	B Field 5	-	-	-	WI	-	-	-	141	-	-
1964-A151	2438682.31	1964 Oct 13 1926	Nike	-	Smoke 064	-	-	-	-	WI	-	-	-	18	-	-
1964-S525	2438685.95	1964 Oct 17 1043	Nike Apache	-	AE5.487	Ionos wind,T (IQSY)	-	-	-	EGL	-	-	-	156	-	-
1964-S526	2438685.95	1964 Oct 17 1045	Nike Javelin	-	-	BLOSSOM wind,T	-	-	-	EGL	-	-	-	177	-	-
1964-A157	2438691.21	1964 Oct 22 1656	Nike	-	Smoke 065	-	-	-	-	WI	-	-	-	19	-	-
1964-S538	2438692.69	1964 Oct 24 0433	Nike Apache	-	-	Sandia 154-30	TMA	-	-	KAU	-	-	-	160	-	-
1964-S542	2438696.21	1964 Oct 27 1657	Nike Cajun	-	AB6.197	RPA	-	-	-	FC	-	-	-	136	-	-
1964-S543	2438695.81	1964 Oct 27 0725	Nike Apache	-	-	Sandia 154-31	TMA	-	-	KAU	-	-	-	160	-	-
1964-A160	2438699.27	1964 Oct 30 1828	Nike	-	Smoke 066	-	-	-	-	WI	-	-	-	15	-	-
1964-S555	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S556	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S557	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S558	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S561	2438700.72	1964 Nov 1 0510	Nike Cajun	-	-	Sandia 154-32	Balloon	-	-	KAU	-	-	-	140	-	-
1964-S560	2438700.75	1964 Nov 1 0600	Nike Apache	-	NASA 14.197CA	GCA Ionos 13/Rel Na	-	-	-	FC	-	-	-	182	-	-
1964-S562	2438700.76	1964 Nov 1 0618	Nike Apache	-	-	Sandia 154-34	TMA	-	-	KAU	-	-	-	160	-	-
1964-S569	2438702.69	1964 Nov 3 0432	Nike Apache	-	-	Sandia 154-36	TMA	-	-	KAU	-	-	-	160	-	-
1964-S568	2438702.92	1964 Nov 3 1002	Nike Apache	-	AE5.550	IQSY Ionos,Sphere	-	-	-	EGL	-	-	-	209	-	-
1964-S570	2438703.23	1964 Nov 3 1738	Nike Cajun	-	NASA 10.132GA	GSFC Grenade 60	-	-	-	WI	-	-	-	122	-	-
1964-S582	2438705.21	1964 Nov 5 1700	Nike Cajun	-	NASA 10.107GA	GSFC Grenade 61	-	-	-	WI	-	-	-	122	-	-
1964-S584	2438705.36	1964 Nov 5 2038	Nike Apache	-	NASA 14.104DI	Ionos/B field	-	-	-	FC	-	-	-	145	-	-
1964-S589	2438705.50	1964 Nov 6	Nike Tomahawk	9	Sandia 152-59	Ballistic HRT	-	-	-	KAU	-	-	-	289	-	-
1964-S592	2438705.50	1964 Nov 6 0002	Nike Cajun	-	NASA 10.133GA	GSFC Grenade 62	-	-	-	WI	-	-	-	120	-	-
1964-S593	2438705.51	1964 Nov 6 0008	Nike Apache	-	NASA 14.131IA	ISRO 10.04	TERLS-012	-	-	TERLS	-	-	-	192	-	-
1964-S594	2438705.72	1964 Nov 6 0520	Nike Cajun	-	NASA 10.134GA	GSFC Grenade 63	-	-	-	WI	-	-	-	120	-	-
1964-S596	2438705.92	1964 Nov 6 1000	Nike Cajun	-	NASA 10.135GA	GSFC Grenade 64	-	-	-	WI	-	-	-	125	-	-
1964-S599	2438706.72	1964 Nov 7 0513	Nike Apache	-	NASA 14.105DI	Ionos/B field	-	-	-	FC	-	-	-	149	-	-
1964-U05	2438706.57	1964 Nov 7 0138	Nike Cajun	-	Meteor 4/5	-	Meteor 4	-	-	WI	-	-	-	110	-	-
1964-S604	2438708.50	1964 Nov 9	Nike Tomahawk	9	Sandia 152-67	Ballistic HRT	-	-	-	KAU	-	-	-	289	-	-
1964-S605	2438709.04	1964 Nov 9 1254	Nike Apache	-	NASA 14.204IA	ISRO 10.05	TERLS-013	-	-	TERLS	-	-	-	192	-	-
1964-S606	2438709.50	1964 Nov 10	Nike Apache	-	-	-	-	-	-	EGL	-	-	-	200?	-	-
1964-S607	2438709.50	1964 Nov 10	Nike Apache	-	-	-	-	-	-	EGL	-	-	-	200?	-	-
1964-S608	2438709.50	1964 Nov 10 0005	Nike Apache	-	NASA 14.205IA	ISRO 10.06	TERLS-014	-	-	TERLS	-	-	-	192	-	-
1964-S610	2438709.96	1964 Nov 10 1107	Nike Apache	-	NASA 14.147UI	UIUC-GCA Ionos 5/3a	-	-	-	WI	-	-	-	251	-	-
1964-S611	2438710.43	1964 Nov 10 2225	Nike Apache	-	NASA 14.114CA	GCA Release 39 Na	-	-	CVE-25	NASA64	LP1	-	-	198	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S612	2438710.44	1964 Nov 10 2228	Nike Apache	-	NASA 14.53CA	GCA Release 40 Na	-	-	-	WI	-	-	-	198	-	-
1964-M27	2438710.48	1964 Nov 10 2326	Nike Apache	-	AE5.551 IQSY	IQSY Ionos,Sphere	-	-	-	EGL	-	-	-	75	-	-
1964-S613	2438710.55	1964 Nov 11 0119	Nike Apache	-	AE5.552 IQSY	IQSY Ionos,Sphere	-	-	-	EGL	-	-	-	81	-	-
1964-S615	2438711.43	1964 Nov 11 2224	Nike Apache	-	NASA 14.115CA	GCA Release 41 Na	-	-	CVE-25	NASA64	LP2	-	-	156	-	-
1964-S616	2438711.44	1964 Nov 11 2227	Nike Apache	-	NASA 14.112CA	GCA Release 42 Na	-	-	-	WI	-	-	-	202	-	-
1964-S553	2438711.50	1964 Nov 12	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S619	2438711.95	1964 Nov 12 1053	Nike Apache	-	NASA 14.116CA	GCA Release 43 Na	-	-	CVE-25	NASA64	LP3	-	-	204	-	-
1964-S620	2438711.96	1964 Nov 12 1056	Nike Apache	-	NASA 14.113CA	GCA Release 44 Na	-	-	-	WI	-	-	-	204	-	-
1964-S622	2438712.50	1964 Nov 13	Nike Tomahawk	9	Sandia 152-65	Ballistic	-	-	-	KAU	-	-	-	308	-	-
1964-A171	2438713.34	1964 Nov 13 2010	Nike	-	Smoke 068	-	-	-	-	WI	-	-	-	19	-	-
1964-S629	2438717.24	1964 Nov 17 1749	Nike Apache	-	NASA 14.233UA	Density	-	-	CVE-25	NASA64	LP4	-	-	194	-	-
1964-S630	2438717.38	1964 Nov 17 2110	Nike Cajun	-	NASA 10.153GA	Density	-	-	CVE-25	NASA64	LP5	-	-	160	-	-
1964-S631	2438717.50	1964 Nov 18	Nike Tomahawk	9	Sandia 152-66	Ballistic	-	-	-	KAU	-	-	-	309	-	-
1964-S634	2438717.97	1964 Nov 18 1123:00	Nike Apache	-	-	LILA	-	-	-	EGL	-	-	-	143	-	-
1964-S638	2438718.73	1964 Nov 19 0534	Nike Apache	-	AE5.490	TMA release	-	-	-	EGL	-	-	-	142	-	-
1964-A173	2438719.27	1964 Nov 19 1834	Nike Apache	-	NASA 14.29GA	UM Pitot 7?	-	-	CVE-25	NASA64	LP6	-	-	14	-	-
1964-S640	2438719.29	1964 Nov 19 1902	Nike Cajun	-	NASA 10.117GA	GSFC Grenade 65	-	-	-	WI	-	-	-	125	-	-
1964-S641	2438719.35	1964 Nov 19 2020	Nike Apache	-	NASA 14.149UI	UIUC-GCA Ionos 6/3b	-	-	-	WI	-	-	-	167	-	-
1964-S642	2438719.42	1964 Nov 19 2202	Nike Apache	-	NASA 14.148UI	UIUC IQSY Ionos	-	-	CVE-25	NASA64	LP7	-	-	170	-	-
1964-S643	2438719.49	1964 Nov 19 2343	Nike Apache	-	AE5.491 IQSY	IQSY release	-	-	-	EGL	-	-	-	200?	-	-
1964-S644	2438720.50	1964 Nov 21	Nike Tomahawk	9	Sandia 115-5	Sampler	-	-	-	KAU	-	-	-	270?	-	-
1964-S645	2438722.19	1964 Nov 22 1630	Nike Cajun	-	AD6.811	EM absorption	-	-	-	EGL	-	-	-	110	-	-
1964-S646	2438723.21	1964 Nov 23 1707	Nike Apache	-	NASA 14.117GI	-	-	-	-	WI	-	-	-	178	-	-
1964-A174	2438723.50	1964 Nov 24	Nike Javelin	-	-	-	-	-	-	EGL	-	-	-	1?	-	-
1964-S647	2438723.50	1964 Nov 24	Nike Tomahawk	9	Sandia 115-6	Sampler	-	-	-	KAU	-	-	-	300	-	-
1964-A175	2438724.26	1964 Nov 24 1810	Nike	-	Smoke 069	-	-	-	-	WI	-	-	-	18	-	-
1964-S554	2438724.50	1964 Nov 25	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S650	2438727.06	1964 Nov 27 1331	Nike Iroquois	-	AE07.312	Vehicle Test	-	-	-	EGL	-	-	-	201	-	-
1964-S654	2438729.50	1964 Nov 30	Nike Tomahawk	9	Sandia 152-71	HHRT	-	-	-	KAU	-	-	-	293	-	-
1964-S659	2438730.05	1964 Nov 30 1311	Nike Apache	-	NASA 14.135IA	Rehbar 5 (Na)	-	-	-	SOM	-	-	-	207	-	-
1964-S655	2438729.50	1964 Dec	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1964-S656	2438729.50	1964 Dec	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S657	2438729.50	1964 Dec	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1964-S661	2438730.50	1964 Dec 1	Nike Tomahawk	9	Sandia 152-55	ACS	-	-	-	KAU	-	-	-	270?	-	-
1964-S662	2438730.56	1964 Dec 1 0120	Nike Apache	-	NASA 14.136IA	Rehbar 6 (Na)	-	-	-	SOM	-	-	-	200	-	-
1964-S663	2438730.68	1964 Dec 1 0420	Nike Cajun	-	ION 64-1	-	-	-	-	CELPA	-	-	-	134	-	-
1964-A178	2438731.37	1964 Dec 1 2053	Nike	-	Smoke 070	-	-	-	-	WI	-	-	-	17	-	-
1964-S669	2438734.25	1964 Dec 4 1806	Nike Cajun	-	ION 64-2	-	-	-	-	CELPA	-	-	-	123	-	-
1964-S671	2438737.25	1964 Dec 7 1756	Nike Apache	-	NASA 14.60UE	UNH Particles	-	-	-	WI	-	-	-	145	-	-
1964-A181	2438738.26	1964 Dec 8 1813	Nike	-	Smoke 071	-	-	-	-	WI	-	-	-	20	-	-
1964-A185	2438741.25	1964 Dec 11 1800	Aerobee 350	-	NASA 12.02GT	Dummy sustainer	-	-	-	WI	-	-	-	2	-	-
1964-S686	2438746.12	1964 Dec 16 1457	Nike Apache	-	NASA 14.209GI	-	-	-	-	WS	-	-	-	195	-	-
1964-S690	2438747.33	1964 Dec 17 1954:00	Nike Cajun	?	-	-	-	-	-	PM	-	-	-	100?	-	-
1965-A177	2438760.50	1965?	Nike Cajun	-	Sandia 276-1	Dart/Parachute	-	-	-	TTR	-	-	-	2?	-	-
1965-S06	2438760.50	1965 Jan	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S07	2438760.50	1965 Jan	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-A06	2438766.33	1965 Jan 5 2000	Nike	-	Smoke 072	-	-	-	-	WI	-	-	-	16	-	-
1965-S29	2438767.66	1965 Jan 7 0350	Nike Apache	-	NASA 14.142NA	Airglow	-	-	-	WI	-	-	-	146	-	-
1965-A10	2438775.26	1965 Jan 14 1819	Nike	-	Smoke 074	-	-	-	-	WI	-	-	-	15	-	-
1965-A12	2438782.26	1965 Jan 21 1811	Nike	-	Smoke 075	-	-	-	-	WI	-	-	-	18	-	-
1965-S50	2438787.50	1965 Jan 27	Nike Tomahawk	9a	Sandia 152-23	Ballistic (TTR?)	-	-	-	KAU	-	-	-	302	-	-
1965-S51	2438788.40	1965 Jan 27 2132	Nike Cajun	-	NASA 10.124GA	GSFC Grenade 66 (PB)	-	-	-	PBA	-	-	-	100?	-	-
1965-S52	2438788.43	1965 Jan 27 2224	Nike Cajun	-	NASA 10.118GA	GSFC Grenade 67 (W)	-	-	-	WI	-	-	-	117	-	-
1965-S55	2438788.43	1965 Jan 27 2224	Nike Cajun	-	NASA 10.121GA	GSFC Grenade 68 (C)	-	-	-	FC	-	-	-	125	-	-
1965-S60	2438791.50	1965 Feb	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S61	2438791.50	1965 Feb	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S62	2438791.50	1965 Feb	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-S69	2438793.50	1965 Feb 2	Nike Javelin	-	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-A21	2438794.33	1965 Feb 2 1953	Nike	-	Smoke 076	-	-	-	-	WI	-	-	-	11	-	-
1965-S73	2438795.26	1965 Feb 3 1808	Nike Apache	-	NASA 14.61UE	UNH Particles	-	-	-	WI	-	-	-	141	-	-
1965-S74	2438795.70	1965 Feb 4 0445	Nike Cajun	-	NASA 10.125GA	GSFC Grenade 69 (PB)	-	-	-	PBA	-	-	-	121	-	-
1965-S75	2438795.72	1965 Feb 4 0510	Nike Cajun	-	NASA 10.119GA	GSFC Grenade 70 (W)	-	-	-	WI	-	-	-	118	-	-
1965-S76	2438796.23	1965 Feb 4 1734	Nike Cajun	-	NASA 10.122GA	GSFC Grenade 71 (C)	-	-	-	FC	-	-	-	150?	-	-
1965-A23	2438797.35	1965 Feb 5 2029	Nike	-	Smoke 077	-	-	-	-	WI	-	-	-	17	-	-
1965-S83	2438797.93	1965 Feb 6 1019	Nike Cajun	-	AP6.850	-	-	-	-	EGL	-	-	-	100?	-	-
1965-S86	2438800.43	1965 Feb 8 2215	Nike Cajun	-	NASA 10.126GA	GSFC Grenade 72 (PB)	-	-	-	PBA	-	-	-	124	-	-
1965-S87	2438800.45	1965 Feb 8 2253	Nike Cajun	-	NASA 10.120GA	GSFC Grenade 73 (W)	-	-	-	WI	-	-	-	107	-	-
1965-S88	2438800.46	1965 Feb 8 2258	Nike Cajun	-	NASA 10.123GA	GSFC Grenade 74 (C)	-	-	-	FC	-	-	-	165	-	-
1965-S97	2438810.34	1965 Feb 18 2009	Nike Apache	-	NASA 14.11UA	UM Composition 4?	-	-	-	FC	-	-	-	195	-	-
1965-S98	2438810.52	1965 Feb 19 0025	Nike Apache	-	AE5.492	TMA/Grenades	-	-	-	EGL	-	-	-	161	-	-
1965-S100	2438810.70	1965 Feb 19 0451:42	Nike Tomahawk	9	Sandia 152-72	Caribou I	LASL Aurora	-	-	FC	-	-	-	320	-	-
1965-S101	2438810.89	1965 Feb 19 0917:31	Nike Apache	-	NASA 14.95UA	UM Composition 5?	-	-	-	FC	-	-	-	187	-	-
1965-S102	2438815.22	1965 Feb 23 1715	Nike Javelin	-	Sphere 14	Sphere	-	-	-	EGL	-	-	-	200	-	-
1965-S103	2438816.50	1965 Feb 25	Nike Apache	-	-	Ionos winds,T	-	-	-	EGL	-	-	-	200?	-	-
1965-S105	2438817.97	1965 Feb 26 1110	Nike Apache	-	Sphere 24	Sphere	-	-	-	EGL	-	-	-	150	-	-
1965-S108	2438819.38	1965 Feb 27 2100	Nike Apache	-	AE5.556	Neutral/Ion/Sphere	-	-	-	EGL	-	-	-	157	-	-
1965-S109	2438819.40	1965 Feb 27 2133	Nike Cajun	-	NASA 10.155UA	Density	-	-	CVE-25	NASA65	LP1	-	-	100?	-	-
1965-S110	2438819.44	1965 Feb 27 2230	Nike Apache	-	AE5.486	Neutral/Ion/Sphere	-	-	-	EGL	-	-	-	132	-	-
1965-S115	2438819.51	1965 Feb 28 0021	Nike Apache	-	NASA 14.196CA	GCA Ionos-TMA 1	-	-	-	FC	-	-	-	170	-	-
1965-A38	2438819.52	1965 Feb 28 0030	Nike Apache	-	AE5.493	Ionos winds,T	-	-	-	EGL	-	-	-	46	-	-
1965-A39	2438819.65	1965 Feb 28 0330	Nike Apache	-	NASA 14.198GA	GCA Ionos-TMA 2	-	-	-	FC	-	-	-	5	-	-
1965-S116	2438819.68	1965 Feb 28 0415	Nike Apache	-	AE5.494	PENNY (TMA/Gren)	-	-	-	EGL	-	-	-	145	-	-
1965-A40	2438819.75	1965 Feb 28 0600	Nike Apache	-	NASA 14.199GA	GCA Ionos-TMA 3	-	-	-	FC	-	-	-	7	-	-
1965-M06	2438819.78	1965 Feb 28 0639	Nike Apache	-	AE5.495	-	-	-	-	EGL	-	-	-	61	-	-
1965-S117	2438819.89	1965 Feb 28 0915	Nike Apache	-	AE5.496	SHIRLEY (TMA/Gren)	-	-	-	EGL	-	-	-	200?	-	-
1965-S118	2438819.89	1965 Feb 28 0915	Nike Apache	-	AE5.553	Neutral/Ion/Sphere	-	-	-	EGL	-	-	-	143	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-A41	2438819.98	1965 Feb 28 1130	Nike Apache	-	AE5.554	TINA (TMA/Gren)	-	-	-	EGL	-	-	-	28	-	-
1965-S119	2438819.98	1965 Feb 28 1130	Nike Apache	-	AE5.497	Neutral/Ion/ImpProbe	-	-	-	EGL	-	-	-	139	-	-
1965-M07	2438820.01	1965 Feb 28 1211	Nike Apache	-	NASA 14.200CA	GCA Ionos-TMA 4	-	-	-	FC	-	-	-	55	-	-
1965-A42	2438820.05	1965 Feb 28 1315	Nike Apache	-	AE5.555	Neutral/Ion/ImpProbe	-	-	-	EGL	-	-	-	28	-	-
1965-S111	2438819.50	1965 Mar	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S112	2438819.50	1965 Mar	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S122	2438821.36	1965 Mar 1 2043	Nike Apache	-	NASA 14.253IA	UJO-6	-	-	-	AND	-	-	-	185	-	-
1965-S123	2438821.50	1965 Mar 2	Nike Tomahawk	9	Sandia 152-49	ACS	-	-	-	KAU	-	-	-	270?	-	-
1965-S124	2438821.50	1965 Mar 2	Nike Tomahawk	12	Sandia 152-53	Ballistic	-	-	-	KAU	-	-	-	175	-	-
1965-A44	2438823.44	1965 Mar 3 2228	Nike Apache	-	Ferdinand 9	Ferdinand 9	-	-	-	AND	-	-	-	22	-	-
1965-S137	2438825.37	1965 Mar 5 2057:50	Nike Apache	-	NASA 14.254IA	UJO-8	-	-	-	AND	-	-	-	180	-	-
1965-S138	2438825.81	1965 Mar 6 0730	Nike Tomahawk	9	Sandia 152-73	Caribou I	LASL Aurora	-	-	FC	-	-	-	184	-	-
1965-S143	2438828.15	1965 Mar 8 1535	Nike Apache	-	NASA 14.160GE	B Field	-	-	CVE-25	NASA65	LP2	-	-	151	-	-
1965-S144	2438828.24	1965 Mar 8 1748:08	Nike Apache	-	NASA 14.64UA	UM Pitot 8	-	-	CVE-25	NASA65	LP2	-	-	141	-	-
1965-S145	2438828.77	1965 Mar 9 0626:26	Nike Apache	-	NASA 14.65UA	UM Pitot 9	-	-	CVE-25	NASA65	LP3	-	-	143	-	-
1965-S146	2438829.18	1965 Mar 9 1625	Nike Apache	-	NASA 14.85UE	UNH 65-2	-	-	CVE-25	NASA65	LP4	-	-	200?	-	-
1965-S148	2438830.17	1965 Mar 10 1600	Nike Apache	-	NASA 14.83UE	UNH 65-3	-	-	CVE-25	NASA65	LP5	-	-	200?	-	-
1965-S149	2438830.90	1965 Mar 11 0935:14	Nike Apache	-	NASA 14.98UA	Composition(Tropics)	-	-	CVE-25	NASA65	LP6	-	-	197	-	-
1965-S150	2438830.94	1965 Mar 11 1038	Nike Cajun	-	NASA 10.156UA	-	-	-	CVE-25	NASA65	LP7	-	-	100?	-	-
1965-A45	2438831.26	1965 Mar 11 1811	Nike	-	Smoke 078	-	-	-	-	WI	-	-	-	16	-	-
1965-S151	2438831.34	1965 Mar 11 2007	Nike Apache	-	NASA 14.99UA	-	-	-	CVE-25	NASA65	LP8	-	-	200?	-	-
1965-S152	2438831.50	1965 Mar 12	Nike Tomahawk	9	Sandia 152-79	ACS	-	-	-	KAU	-	-	-	280	-	-
1965-S153	2438832.06	1965 Mar 12 1330	Nike Apache	-	NASA 14.07UE	UNH 65-4	-	-	CVE-25	NASA65	LP9	-	-	178	-	-
1965-S154	2438832.17	1965 Mar 12 1600	Nike Apache	-	NASA 14.84UE	UNH 65-5	-	-	CVE-25	NASA65	LP9	-	-	175	-	-
1965-A46	2438835.36	1965 Mar 15 2041	Nike Apache	-	Ferdinand 10	Ferdinand 10	-	-	-	AND	-	-	-	35	-	-
1965-S164	2438836.18	1965 Mar 16 1615	Nike Apache	-	NASA 14.171GE	B field	-	-	CVE-25	NASA65	LP10	-	-	172	-	-
1965-S165	2438836.20	1965 Mar 16 1651	Nike Apache	-	NASA 14.177GI	-	-	-	CVE-25	NASA65	LP11	-	-	200?	-	-
1965-S168	2438837.75	1965 Mar 18 0604	Nike Apache	-	NASA 14.172GE	B field	-	-	CVE-25	NASA65	LP12	-	-	150	-	-
1965-S169	2438837.78	1965 Mar 18 0641	Nike Apache	-	NASA 14.178GI	-	-	-	CVE-25	NASA65	LP13	-	-	200?	-	-
1965-S171	2438838.17	1965 Mar 18 1601	Nike Apache	-	NASA 14.176GE	B field	-	-	CVE-25	NASA65	LP14	-	-	149	-	-
1965-S172	2438838.19	1965 Mar 18 1638	Nike Apache	-	NASA 14.179GI	-	-	-	CVE-25	NASA65	LP15	-	-	200?	-	-
1965-S173	2438838.36	1965 Mar 18 2043	Nike Apache	-	NASA 14.62UA	Composition	-	-	-	WI	-	-	-	158	-	-
1965-S176	2438839.26	1965 Mar 19 1809	Nike Tomahawk	-	NASA 12.05/18.01GA	UM Thermosphere 1	-	-	-	WI	-	-	-	315	-	-
1965-S178	2438840.06	1965 Mar 20 1320:09	Nike Apache	-	NASA 14.228UI	-	-	-	CVE-25	NASA65	LP16	-	-	174	-	-
1965-S179	2438840.19	1965 Mar 20 1628	Nike Apache	-	AE5.293	B field	-	-	CVE-25	NASA65	LP17	-	-	201	-	-
1965-S180	2438840.21	1965 Mar 20 1704:13	Nike Cajun	-	AE6.252	Electron density	-	-	CVE-25	NASA65	LP18	-	-	122	-	-
1965-A48	2438842.43	1965 Mar 22 2219	Nike Apache	-	Ferdinand 11	Ferdinand 11	-	-	-	AND	-	-	-	20	-	-
1965-S183	2438841.82	1965 Mar 22 0744	Nike Apache	-	AE5.294	B field	-	-	CVE-25	NASA65	LP19	-	-	206	-	-
1965-S184	2438841.87	1965 Mar 22 0849:10	Nike Cajun	-	AE6.253	Electron density	-	-	CVE-25	NASA65	LP20	-	-	120	-	-
1965-S185	2438842.90	1965 Mar 23 0931:09	Nike Apache	-	NASA 14.229UI	-	-	-	CVE-25	NASA65	LP18	-	-	165	-	-
1965-S187	2438844.19	1965 Mar 24 1634	Nike Apache	-	NASA 14.174GE	B field	-	-	CVE-25	NASA65	LP22	-	-	200?	-	-
1965-S188	2438844.21	1965 Mar 24 1707	Nike Apache	-	NASA 14.180GI	-	-	-	CVE-25	NASA65	LP23	-	-	200?	-	-
1965-S194	2438845.17	1965 Mar 25 1600	Nike Apache	-	AE5.295	B field	-	-	CVE-25	NASA65	LP24	-	-	100	-	-
1965-S197	2438846.15	1965 Mar 26 1541	Nike Apache	-	NASA 14.173GE	B field	-	-	CVE-25	NASA65	LP25	-	-	155	-	-
1965-S198	2438846.18	1965 Mar 26 1613	Nike Apache	-	NASA 14.181GI	-	-	-	CVE-25	NASA65	LP26	-	-	200?	-	-
1965-S199	2438846.62	1965 Mar 27 0300	Nike Apache	-	NASA 14.182GI	-	-	-	CVE-25	NASA65	LP27	-	-	200?	-	-
1965-S201	2438847.26	1965 Mar 27 1808	Nike Apache	-	NASA 14.175GE	B field	-	-	CVE-25	NASA65	LP28	-	-	200?	-	-
1965-S203	2438848.16	1965 Mar 28 1550	Nike Apache	-	AE5.296	B field	-	-	CVE-25	NASA65	LP29	-	-	129	-	-
1965-S205	2438849.16	1965 Mar 29 1547	Nike Apache	-	NASA 14.70GE	B field	-	-	CVE-25	NASA65	LP30	-	-	172	-	-
1965-S206	2438849.16	1965 Mar 29 1547	Nike Cajun	-	NASA 10.143GE	-	-	-	CVE-25	NASA65	LP30	-	-	172	-	-
1965-A55	2438851.27	1965 Mar 31 1831	Nike	-	Smoke 079	-	-	-	-	WI	-	-	-	12	-	-
1965-S211	2438851.59	1965 Apr 1 0207	Nike Apache	-	NASA 14.132NA	Airglow	-	-	-	WI	-	-	-	139	-	-
1965-S212	2438853.06	1965 Apr 2 1322	Nike Apache	-	NASA 14.185UE	UNH Particles	-	-	CVE-25	NASA65	LP31	-	-	200?	-	-
1965-S214	2438854.42	1965 Apr 3 2159	Nike Apache	-	NASA 14.207UE	Auroral fluxes	-	-	-	FC	-	-	-	205	-	-
1965-S215	2438855.17	1965 Apr 4 1606:35	Nike Apache	-	NASA 14.66UA	UM Pitot 10	-	-	CVE-25	NASA65	LP32	-	-	139	-	-
1965-S217	2438856.07	1965 Apr 5 1345:53	Nike Apache	-	NASA 14.230UI	-	-	-	CVE-25	NASA65	LP33	-	-	177	-	-
1965-S218	2438856.32	1965 Apr 5 1942	Nike Apache	-	NASA 14.184UE	UNH Particles	-	-	CVE-25	NASA65	LP34	-	-	200?	-	-
1965-S220	2438857.19	1965 Apr 6 1634:05	Nike Apache	-	NASA 14.26UA	UM Pitot 11	-	-	CVE-25	NASA65	LP35	-	-	142	-	-
1965-S222	2438860.30	1965 Apr 9 1918:15	Nike Apache	-	NASA 14.231UI	-	-	-	CVE-25	NASA65	LP36	-	-	191	-	-
1965-S223	2438860.35	1965 Apr 9 2026:10	Nike Apache	-	NASA 14.63UA	UM Pitot 12	-	-	CVE-25	NASA65	LP37	-	-	147	-	-
1965-S227	2438863.22	1965 Apr 12 1714:02	Nike Apache	-	NASA 14.232UI	UIUC-GCA Ionos 7	-	-	CVE-25	NASA65	LP38	-	-	187	-	-
1965-S228	2438863.28	1965 Apr 12 1837	Nike Iroquois	-	AE07.313	Vehicle Test	-	-	-	EGL	-	-	-	143	-	-
1965-S231	2438863.67	1965 Apr 13 0405:06	Nike Apache	-	NASA 14.67UA	UM Pitot 13	-	-	CVE-25	NASA65	LP39	-	-	150	-	-
1965-S232	2438864.17	1965 Apr 13 1600:09	Nike Apache	-	NASA 14.27UA	UM Pitot 14	-	-	CVE-25	NASA65	LP39	-	-	146	-	-
1965-S233	2438864.22	1965 Apr 13 1710	Nike Apache	-	NASA 14.186UE	UNH Particles	-	-	CVE-25	NASA65	LP39	-	-	200?	-	-
1965-S234	2438864.30	1965 Apr 13 1906	Nike Apache	-	NASA 14.101UA	Composition	-	-	CVE-25	NASA65	LP40	-	-	200?	-	-
1965-S237	2438866.17	1965 Apr 15 1600:04	Nike Apache	-	NASA 14.25UA	UM Pitot 15	-	-	CVE-25	NASA65	LP41	-	-	140	-	-
1965-S238	2438866.25	1965 Apr 15 1802	Nike Apache	-	NASA 14.100UA	Composition	-	-	CVE-25	NASA65	LP42	-	-	200?	-	-
1965-M09	2438871.42	1965 Apr 20 2204	Nike Cajun	-	AD6.841	Antenna breakdown	-	-	-	WI	-	-	-	80	-	-
1965-S246	2438873.63	1965 Apr 23 0301	Nike Cajun	-	NASA 10.171NA	Release	-	-	-	WI	-	-	-	128	-	-
1965-S247	2438873.67	1965 Apr 23 0402	Nike Apache	-	NASA 14.255NA	Release	-	-	-	WI	-	-	-	145	-	-
1965-S210	2438878.50	1965 Apr 28	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S257	2438879.44	1965 Apr 28 2227	Nike Cajun	-	NASA 10.150GA	GSFC Grenade 75	-	-	-	PBA	-	-	-	100?	-	-
1965-S264	2438880.23	1965 Apr 29 1732	Nike Cajun	-	NASA 10.94IA	Rehbar 7 (Grenades)	-	-	-	SOM	-	-	-	100?	-	-
1965-A61	2438881.28	1965 Apr 30 1837	Nike Cajun	-	NASA 10.95IA	Rehbar 8 (Grenades)	-	-	-	SOM	-	-	-	40	-	-
1965-A62	2438881.33	1965 Apr 30 1953	Nike	-	Smoke 080	-	-	-	-	WI	-	-	-	23	-	-
1965-S268	2438880.50	1965 May	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-S273	2438884.27	1965 May 3 1823	Nike Cajun	-	NASA 10.127GA	GSFC Grenade 76	-	-	-	WI	-	-	-	100?	-	-
1965-U03	2438884.74	1965 May 4 0550	Nike Cajun	-	Meteor 6/7	Reentry physics	Meteor 6	-	-	WI	-	-	-	110	-	-
1965-A69	2438894.26	1965 May 13 1813	Nike	-	Smoke 081	-	-	-	-	WI	-	-	-	11	-	-
1965-A70	2438895.15	1965 May 14 1541	Nike	-	Smoke 082	-	-	-	-	WI	-	-	-	15	-	-
1965-A72	2438899.27	1965 May 18 1830	Nike	-	Smoke 083	-	-	-	-	WI	-	-	-	14	-	-
1965-S303	2438902.58	1965 May 22 0202:01	Nike Apache	-	NASA 14.47UA	UM Pitot 16/FIRE cal	-	-	-	ASC	-	-	-	147	-	-
1965-S305	2438903.08	1965 May 22 1400:00	Nike Apache	-	NASA 14.48UA	UM Pitot 17/FIRE cal	-	-	-	ASC	-	-	-	158	-	-
1965-S319	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-74	LASL Eclipse	-	-	-	RARO	-	-	-	270?	-	-
1965-S320	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-75	LASL Eclipse	-	-	-	RARO	-	-	-	270?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S321	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-76	LASL Eclipse	-	-	-	RARO	-	-	-	270?	-	-
1965-S322	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-77	LASL Eclipse	-	-	-	RARO	-	-	-	270?	-	-
1965-S323	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-78	LASL Eclipse	-	-	-	RARO	-	-	-	270?	-	-
1965-S326	2438911.50	1965 Jun	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1965-S327	2438911.50	1965 Jun	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1965-A79	2438913.28	1965 Jun 1 1844	Nike	-	Smoke 084	-	-	-	-	WI	-	-	-	13	-	-
1965-S336	2438913.93	1965 Jun 2 1019	Nike Cajun	-	AD6.850	Ionos winds,T	-	-	-	EGL	-	-	-	121	-	-
1965-S337	2438913.94	1965 Jun 2 1030	Nike Cajun	-	AE6.498	BETH	-	-	-	EGL	-	-	-	121	-	-
1965-S325	2438914.50	1965 Jun 3	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-S355	2438925.88	1965 Jun 14 0913:30	Nike Apache	-	NASA 14.245UI	UIUC-GCA D/E-4a	-	-	-	WI	-	-	-	177	-	-
1965-S363	2438929.40	1965 Jun 17 2141:00	Nike Apache	-	NASA 14.246UI	UIUC-GCA D/E-4b	-	-	-	WI	-	-	-	177	-	-
1965-S366	2438930.25	1965 Jun 18 1756	Nike Apache	-	NASA 14.215AI	Topside Sounder	-	-	-	WI	-	-	-	186	-	-
1965-S367	2438930.47	1965 Jun 18 2311	Aerobee 350	-	NASA 17.01GT	-	-	-	-	WI	-	-	-	374	-	-
1965-S378	2438934.58	1965 Jun 23 0149	Nike Apache	-	NASA 14.71CM	GCA Release 45 Na	-	-	-	WI	-	-	-	191	-	-
1965-S377	2438934.59	1965 Jun 23 0203	Nike Apache	-	NASA 14.72CM	GCA Release 46 Na	-	-	-	WI	-	-	-	204	-	-
1965-S379	2438934.67	1965 Jun 23 0400	Nike Apache	-	NASA 14.201CA	GCA Ionos-TMA 5	-	-	-	WI	-	-	-	164	-	-
1965-S380	2438934.87	1965 Jun 23 0847	Nike Apache	-	NASA 14.73CM	GCA Release 47 Na	-	-	-	WI	-	-	-	196	-	-
1965-S381	2438934.87	1965 Jun 23 0852	Nike Apache	-	NASA 14.74CM	GCA Ionos-TMA 6	-	-	-	WI	-	-	-	143	-	-
1965-S390	2438940.50	1965 Jun 29	Nike Javelin	-	-	Composition	-	-	-	EGL	-	-	-	130?	-	-
1965-A94	2438943.24	1965 Jul 1 1740	Nike	-	Smoke 085	-	-	-	-	WI	-	-	-	19	-	-
1965-A101	2438956.26	1965 Jul 14 1809	Nike	-	Smoke 086	-	-	-	-	WI	-	-	-	16	-	-
1965-S398	2438955.50	1965 Jul 14	Nike Cajun	-	Capache	NICAP/1 015	-	-	-	WS	-	-	-	100?	-	-
1965-S399	2438956.50	1965 Jul 15	Nike Cajun	-	-	NICAP/1 014	-	-	-	WS	-	-	-	100?	-	-
1965-S400	2438956.50	1965 Jul 15	Nike Cajun	-	-	NICAP/1 016	-	-	-	WS	-	-	-	100?	-	-
1965-S401	2438956.50	1965 Jul 15	Nike Cajun	-	-	NICAP/1 017	-	-	-	WS	-	-	-	100?	-	-
1965-S402	2438957.50	1965 Jul 16	Nike Cajun	-	-	NICAP/1 019	-	-	-	WS	-	-	-	100?	-	-
1965-S403	2438957.50	1965 Jul 16	Nike Cajun	-	-	NICAP/1 020	-	-	-	WS	-	-	-	100?	-	-
1965-S404	2438957.50	1965 Jul 16	Nike Cajun	-	-	NICAP/1 021	-	-	-	WS	-	-	-	100?	-	-
1965-A103	2438959.13	1965 Jul 17 1505	Nike Apache	-	AE5.814	EM Absorption	-	-	-	EGL	-	-	-	17	-	-
1965-S408	2438961.50	1965 Jul 20	Nike Cajun	-	Capache	NICAP 022	-	-	-	WS	-	-	-	100?	-	-
1965-S409	2438961.50	1965 Jul 20	Nike Cajun	-	Capache	NICAP 023	-	-	-	WS	-	-	-	100?	-	-
1965-S405	2438962.50	1965 Jul 21	Nike Cajun	-	Capache	NICAP 024	-	-	-	WS	-	-	-	100?	-	-
1965-S428	2438962.94	1965 Jul 21 1033:00	Nike Iroquois	-	AE07.347	Sphere/Vehicle test	-	-	-	EGL	-	-	-	178	-	-
1965-A108	2438963.21	1965 Jul 21 1708	Nike	-	Smoke 087	-	-	-	-	WI	-	-	-	15	-	-
1965-S395	2438963.50	1965 Jul 22	Nike Apache	-	Capache	NICAP 018	-	-	-	WS	-	-	-	100?	-	-
1965-S396	2438963.50	1965 Jul 22	Nike Apache	-	Capache	NICAP 025	-	-	-	WS	-	-	-	100?	-	-
1965-S397	2438963.50	1965 Jul 22	Nike Apache	-	Capache	NICAP 026	-	-	-	WS	-	-	-	100?	-	-
1965-S406	2438964.50	1965 Jul 23	Nike Cajun	-	Capache	NICAP 027	-	-	-	WS	-	-	-	100?	-	-
1965-S407	2438964.50	1965 Jul 23	Nike Cajun	-	Capache	NICAP 028	-	-	-	WS	-	-	-	100?	-	-
1965-S431	2438965.21	1965 Jul 23 1705	Nike Cajun	-	NASA 10.128GM	GSFC Grenade 77	-	-	-	WI	-	-	-	116	-	-
1965-S448	2438979.97	1965 Aug 7 1113	Nike Cajun	-	NASA 10.151GM	GSFC Grenade 78	-	-	-	PBA	-	-	-	120	-	-
1965-S449	2438980.00	1965 Aug 7 1200	Nike Cajun	-	NASA 10.96GM	GSFC Grenade 79	-	-	-	FC	-	-	-	127	-	-
1965-S450	2438980.27	1965 Aug 7 1830	Nike Cajun	-	NASA 10.154UA	UM Sphere	-	-	-	WI	-	-	-	167	-	-
1965-S451	2438980.32	1965 Aug 7 1939	Nike Cajun	-	NASA 10.162GM	GSFC Grenade 80	-	-	-	PBA	-	-	-	127	-	-
1965-S452	2438980.32	1965 Aug 7 1945	Nike Cajun	-	NASA 10.165GM	GSFC Grenade 81	-	-	-	FC	-	-	-	118	-	-
1965-S453	2438980.34	1965 Aug 7 2006	Nike Cajun	-	NASA 10.168GM	Grenades/UM Sphere	-	-	-	WI	-	-	-	120	-	-
1965-S454	2438980.65	1965 Aug 8 0340	Nike Cajun	-	NASA 10.169GM	Grenades/UM Sphere	-	-	-	WI	-	-	-	122	-	-
1965-S455	2438980.67	1965 Aug 8 0400	Nike Cajun	-	NASA 10.166GM	GSFC Grenade 82 C	-	-	-	FC	-	-	-	116	-	-
1965-S456	2438980.68	1965 Aug 8 0415	Nike Cajun	-	NASA 10.163GM	GSFC Grenade 83 PB	-	-	-	PBA	-	-	-	124	-	-
1965-S457	2438980.79	1965 Aug 8 0652	Nike Cajun	-	NASA 10.157UA	UM Sphere	-	-	-	WI	-	-	-	165	-	-
1965-S458	2438980.92	1965 Aug 8 1002	Nike Cajun	-	NASA 10.167GM	GSFC Grenade 84 C	-	-	-	FC	-	-	-	125	-	-
1965-S459	2438980.93	1965 Aug 8 1015	Nike Cajun	-	NASA 10.170GM	Grenades/UM Sphere	-	-	-	WI	-	-	-	120	-	-
1965-S460	2438981.92	1965 Aug 9 1010	Nike Cajun	-	NASA 10.164GM	GSFC Grenade 85 PB	-	-	-	PBA	-	-	-	124	-	-
1965-S465	2438983.99	1965 Aug 11 1149	Nike Cajun	-	NASA 10.144GM	Meteoroids	-	-	-	WS	-	-	-	129	-	-
1965-A120	2438985.33	1965 Aug 12 1957	Nike	-	Smoke 088	-	-	-	-	WI	-	-	-	16	-	-
1965-S438	2438985.50	1965 Aug 13	Nike Javelin	-	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-S471	2438991.57	1965 Aug 19 0140	Nike Apache	-	NASA 14.133NA	Airglow	-	-	-	WI	-	-	-	144	-	-
1965-S476	2438997.42	1965 Aug 24 2159	Nike Apache	-	NASA 14.210GI	US/Brazil Test	-	-	-	WI	-	-	-	162	-	-
1965-S486	2439004.97	1965 Sep 1 1117	Nike Apache	-	NASA 14.213UI	MIP 1 (day)	-	-	-	WI	-	-	-	150	-	-
1965-S488	2439006.72	1965 Sep 3 0517	Nike Apache	-	NASA 14.214UI	MIP 2 (night)	-	-	-	WI	-	-	-	153	-	-
1965-S492	2439013.50	1965 Sep 9 2358	Nike Apache	-	NASA 14.75GR	RF propagation	-	-	-	WI	-	-	-	171	-	-
1965-S495	2439019.35	1965 Sep 15 2028:00	Nike Apache	-	NASA 14.244UI	UIUC-GCA D/E-5	-	-	-	WI	-	-	-	180	-	-
1965-A131	2439020.09	1965 Sep 16 1404	Nike Apache	-	NASA 14.234UE	Auroral electrons	-	-	-	FC	-	-	-	27	-	-
1965-S497	2439021.16	1965 Sep 17 1544	Nike Apache	-	NASA 14.235UE	Auroral electrons	-	-	-	FC	-	-	-	160	-	-
1965-S501	2439022.42	1965 Sep 18 2202	Nike Apache	-	NASA 14.224IA	Na release	-	-	-	CORO	-	-	-	205	-	-
1965-A133	2439024.09	1965 Sep 20 1410	Nike Apache	-	NASA 14.237UE	Auroral electrons	-	-	-	FC	-	-	-	20?	-	-
1965-S504	2439024.17	1965 Sep 20 1608	Nike Apache	-	NASA 14.236UE	Auroral electrons	-	-	-	FC	-	-	-	146	-	-
1965-S506	2439025.42	1965 Sep 21 2200	Nike Apache	-	NASA 14.225IA	Na release	-	-	-	CORO	-	-	-	205	-	-
1965-A135	2439027.31	1965 Sep 23 1931	Nike	-	Smoke 089	-	-	-	-	WI	-	-	-	18	-	-
1965-S511	2439027.87	1965 Sep 24 0852	Nike Apache	-	NASA 14.226IA	Na release	-	-	-	CORO	-	-	-	205	-	-
1965-S516	2439030.87	1965 Sep 27 0854	Nike Apache	-	NASA 14.227IA	Na release	-	-	-	CORO	-	-	-	205	-	-
1965-S773	2439032.50	1965 Sep 29	Nike Apache	-	-	SPEEDBALL II 75 SN32	-	-	-	WS	-	-	-	150?	-	-
1965-S774	2439038.50	1965 Oct 5	Nike Apache	-	-	SPEEDBALL II 76 SN33	-	-	-	WS	-	-	-	150?	-	-
1965-A140	2439039.24	1965 Oct 5 1752	Nike	-	Smoke 090	-	-	-	-	WI	-	-	-	14	-	-
1965-S543	2439039.47	1965 Oct 5 2321	Nike Apache	-	NASA 14.202CA	GCA Ionos-TMA 7	-	-	-	FC	-	-	-	206	-	-
1965-A141	2439039.62	1965 Oct 6 0300	Nike Apache	-	NASA 14.203CA	GCA Ionos-TMA 8	-	-	-	FC	-	-	-	2?	-	-
1965-S523	2439043.50	1965 Oct 10	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1965-S551	2439047.17	1965 Oct 13 1601	Nike Cajun	-	NASA 10.152GM	GSFC Grenade 86 PB	-	-	-	PBA	-	-	-	100?	-	-
1965-S552	2439047.17	1965 Oct 13 1611	Nike Cajun	-	NASA 10.97GM	GSFC Grenade 87 C	-	-	-	FC	-	-	-	124	-	-
1965-S553	2439047.20	1965 Oct 13 1651	Nike Cajun	-	NASA 10.129GM	GSFC Grenade 88/UM Sph	-	-	-	WI	-	-	-	110	-	-
1965-S775	2439047.50	1965 Oct 14	Nike Apache	-	-	SPEEDBALL II 77 SN31	-	-	-	WS	-	-	-	150?	-	-
1965-S557	2439051.85	1965 Oct 18 0830:11	Nike Iroquois	-	CRL AE07.618D	Auroral I/O	-	-	-	FWAK	-	-	-	103	-	-
1965-S559	2439053.23	1965 Oct 19 1730	Nike Cajun	-	NASA 10.177GM	GSFC Grenade 89 PB	-	-	-	PBA	-	-	-	100?	-	-
1965-S560	2439053.23	1965 Oct 19 1730	Nike Cajun	-	NASA 10.98GM	GSFC Grenade 90 FC	-	-	-	FC	-	-	-	124	-	-
1965-S562	2439053.47	1965 Oct 19 2310	Nike Cajun	-	NASA 10.174GM	GSFC Grenade 91 W	-	-	-	WI	-	-	-	114	-	-
1965-S567	2439054.50	1965 Oct 21	Nike Apache	-	BMTS	-	-	-	-	WS	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S569	2439055.83	1965 Oct 22 0754:28	Nike Iroquois	-	CRL AE07.619D	Auroral I/O	-	-	-	FWAK	-	-	-	137	-	-
1965-S572	2439057.15	1965 Oct 23 1538	Nike Cajun	-	NASA 10.178GM	GSFC Grenade 92 PB	-	-	-	PBA	-	-	-	100?	-	-
1965-S573	2439057.18	1965 Oct 23 1614	Nike Cajun	-	NASA 10.175GM	GSFC Grenade 93/UM Sph	-	-	-	WI	-	-	-	118	-	-
1965-S574	2439057.19	1965 Oct 23 1638	Nike Cajun	-	NASA 10.172GM	GSFC Grenade 94 C	-	-	-	FC	-	-	-	114	-	-
1965-S776	2439060.50	1965 Oct 27	Nike Apache	-	-	SPEEDBALL II 78 SN34	-	-	-	WS	-	-	-	150?	-	-
1965-S578	2439061.49	1965 Oct 27 2348	Nike Cajun	-	NASA 10.173GM	GSFC Grenade 95 C	-	-	-	FC	-	-	-	118	-	-
1965-S579	2439061.49	1965 Oct 27 2348	Nike Cajun	-	NASA 10.179GM	GSFC Grenade 96 PB	-	-	-	PBA	-	-	-	100?	-	-
1965-S580	2439061.51	1965 Oct 28 0010	Nike Cajun	-	NASA 10.176GM	GSFC Grenade 97 W	-	-	-	WI	-	-	-	117	-	-
1965-A149	2439063.27	1965 Oct 29 1823	Nike	-	Smoke 091	-	-	-	-	WI	-	-	-	13	-	-
1965-S587	2439064.50	1965 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-S588	2439064.50	1965 Nov	Nike Javelin	?	DASA HAR	-	-	-	-	WS	-	-	-	100?	-	-
1965-A153	2439067.15	1965 Nov 2 1531	Nike	-	Smoke 092	-	-	-	-	WI	-	-	-	12	-	-
1965-S593	2439067.89	1965 Nov 3 0917	Nike Cajun	-	CRL AE6.557	IQSY 7-inch Sphere	-	-	-	EGL	-	-	-	137	-	-
1965-S605	2439074.28	1965 Nov 9 1840:00	Nike Apache	-	NASA 14.168UA	UM Pitot 18	-	-	-	FC	-	-	-	144	-	-
1965-S607	2439074.30	1965 Nov 9 1916	Nike Tomahawk	-	NASA 18.03GA	UM Thermosphere 2	-	-	-	FC	-	-	-	328	-	-
1965-S586	2439074.50	1965 Nov 10	Nike Apache	-	BMRS	SPEEDBALL II 79 SN32	-	-	-	WS	-	-	-	150?	-	-
1965-A159	2439074.77	1965 Nov 10 0630	Nike Apache	-	NASA 14.169UM	UM Pitot 19	-	-	-	FC	-	-	-	2?	-	-
1965-S609	2439074.79	1965 Nov 10 0700	Nike Tomahawk	-	NASA 18.02GA	UM Thermosphere 3	-	-	-	FC	-	-	-	328	-	-
1965-S611	2439075.67	1965 Nov 11 0410	Nike Cajun	-	CRL AE6.378	DAPHNE	-	-	-	EGL	-	-	-	113	-	-
1965-S613	2439076.50	1965 Nov 12	Nike Tomahawk	9	Sandia 152-84	AEC SKOL wind/density	-	-	-	KAU	-	-	-	300	-	-
1965-S610	2439081.27	1965 Nov 16 1822	Nike Cajun	-	CRL AE6.379	D-region comp.	-	-	-	EGL	-	-	-	114	-	-
1965-S618	2439081.43	1965 Nov 16 2215:00	Nike Cajun	-	-	YORKSHIRE	-	-	-	EGL	-	-	-	130	-	-
1965-A230	2439086.50	1965 Nov 22	Nike Tomahawk	-	Sandia?	AEC SKOL	-	-	-	KAU	-	-	-	2?	-	-
1965-A231	2439086.50	1965 Nov 22	Nike Tomahawk	-	Sandia?	AEC SKOL	-	-	-	KAU	-	-	-	2?	-	-
1965-S793	2439088.50	1965 Nov 24	Nike Tomahawk	-	Sandia?	AEC SKOL	-	-	-	KAU	-	-	-	80?	-	-
1965-S620	2439081.68	1965 Nov 17 0425	Nike Apache	-	NASA 14.238UE	Auroral emissions	-	-	-	FC	-	-	-	178	-	-
1965-A163	2439082.36	1965 Nov 17 2042	Nike	-	Smoke 093	-	-	-	-	WI	-	-	-	15	-	-
1965-S621	2439082.48	1965 Nov 17 2336	Nike Cajun	-	CRL AE6.484	EDNA	-	-	-	EGL	-	-	-	155	-	-
1965-S622	2439082.50	1965 Nov 18	Nike Javelin	-	-	IQSY Na, TMA	-	-	-	EGL	-	-	-	130?	-	-
1965-S624	2439082.72	1965 Nov 18 0520	Nike Cajun	-	CRL AE6.382	IQSY D-region comp.	-	-	-	EGL	-	-	-	116	-	-
1965-S625	2439082.72	1965 Nov 18 0520	Nike Cajun	-	CRL AE6.383	IQSY Ion composition	-	-	-	EGL	-	-	-	107	-	-
1965-S628	2439082.97	1965 Nov 18 1121	Nike Cajun	-	CRL AE6.499	POLLY	-	-	-	EGL	-	-	-	155	-	-
1965-S629	2439083.10	1965 Nov 18 1431	Nike Apache	-	NASA 14.78UA	Pandora 1 (Leonids)	-	-	-	WS	-	-	-	149	-	-
1965-A164	2439083.26	1965 Nov 18 1818	Nike	-	Smoke 094	-	-	-	-	WI	-	-	-	14	-	-
1965-S585	2439083.50	1965 Nov 19	Nike Apache	-	BMTS	SR-019	-	-	-	WS	-	-	-	100?	-	-
1965-S633	2439084.53	1965 Nov 20 0037:53	Nike Apache	-	Ferdinand 12	Ferdinand 12	-	-	-	AND	-	-	-	122	-	-
1965-S634	2439084.72	1965 Nov 20 0520	Nike Apache	-	NASA 14.239UE	Auroral emissions	-	-	-	FC	-	-	-	175	-	-
1965-A166	2439087.43	1965 Nov 22 2215	Nike Tomahawk	12	Sandia 152-83	LRL BOX-3	-	-	-	KAU	-	-	-	10	-	-
1965-S637	2439086.50	1965 Nov 22	Nike Tomahawk	9	Sandia 152-27	Sampler	-	-	-	KAU	-	-	-	200	-	-
1965-S638	2439086.50	1965 Nov 22	Nike Tomahawk	12	Sandia 152-89	HRT	-	-	-	KAU	-	-	-	270?	-	-
1965-S641	2439087.52	1965 Nov 23 0030:00	Nike Cajun	?	-	NEEDHAMS POINT	-	-	-	EGL	-	-	-	100?	-	-
1965-A167	2439088.31	1965 Nov 23 1924	Nike	-	Smoke 095	-	-	-	-	WI	-	-	-	12	-	-
1965-S646	2439088.67	1965 Nov 24 0404	Nike Apache	-	NASA 14.124UE	Auroral emissions	-	-	-	FC	-	-	-	175?	-	-
1965-S647	2439089.15	1965 Nov 24 1537	Nike Apache	-	NASA 14.242UE	B Field	-	-	-	WI	-	-	-	169	-	-
1965-A171	2439095.17	1965 Nov 30 1610	Nike	-	Smoke 096	-	-	-	-	WI	-	-	-	14	-	-
1965-A172	2439102.26	1965 Dec 7 1812	Nike	-	Smoke 097	-	-	-	-	WI	-	-	-	16	-	-
1965-S656	2439102.50	1965 Dec 8	Nike Apache	-	BMRS	SR-020	-	-	-	WS	-	-	-	100?	-	-
1965-S772	2439102.50	1965 Dec 8	Nike Apache	-	BMRS	SR-021	-	-	-	WS	-	-	-	100?	-	-
1965-S670	2439104.36	1965 Dec 9 2033	Nike Cajun	-	CRL AA6.174	Sphere	-	-	-	FC	-	-	-	139	-	-
1965-S777	2439104.50	1965 Dec 10	Nike Apache	-	-	SPEEDBALL II 81 SN36	-	-	-	WS	-	-	-	150?	-	-
1965-S672	2439104.71	1965 Dec 10 0500	Nike Cajun	-	CRL AA6.173	Sphere	-	-	-	FC	-	-	-	141	-	-
1965-S673	2439105.50	1965 Dec 11	Nike Javelin	-	-	-	-	-	-	EGL	-	-	-	130?	-	-
1965-S675	2439106.29	1965 Dec 11 1855	Nike Apache	-	CRL AE5.558	Sphere	-	-	-	FC	-	-	-	155	-	-
1965-S676	2439106.70	1965 Dec 12 0451	Nike Apache	-	CRL AE5.172	Sphere	-	-	-	FC	-	-	-	155	-	-
1965-S778	2439108.50	1965 Dec 14	Nike Apache	-	-	SPEEDBALL II 82 SN37	-	-	-	WS	-	-	-	150?	-	-
1965-S779	2439109.50	1965 Dec 15	Nike Apache	-	-	SPEEDBALL II 83 SN38	-	-	-	WS	-	-	-	150?	-	-
1965-S683	2439110.21	1965 Dec 15 1700:00	Nike Apache	-	NASA 14.247UI	UIUC-GCA D/E-6	-	-	-	WI	-	-	-	184	-	-
1965-S684	2439110.30	1965 Dec 15 1919	Nike Apache	-	NASA 14.68II	-	-	-	-	CLBI	-	-	-	185	-	-
1965-S780	2439110.50	1965 Dec 16	Nike Apache	-	-	SPEEDBALL II 84 SN39	-	-	-	WS	-	-	-	150?	-	-
1965-S781	2439111.50	1965 Dec 17	Nike Apache	-	-	SPEEDBALL II 85 SN40	-	-	-	WS	-	-	-	150?	-	-
1965-S782	2439111.50	1965 Dec 17	Nike Apache	-	-	SPEEDBALL II 86 SN41	-	-	-	WS	-	-	-	150?	-	-
1965-S688	2439112.71	1965 Dec 18 0459	Nike Apache	-	NASA 14.69II	-	-	-	-	CLBI	-	-	-	188	-	-
1966-A587	2439125.50	1966?	Nike Nike	-	Sandia	SPTV-8 Para test	-	-	-	TTR	-	-	-	4	-	-
1966-A161	2439125.50	1966?	Nike Nike	-	Sandia	SPTV-9 Para test	-	-	-	TTR	-	-	-	4	-	-
1966-S60	2439136.22	1966 Jan 10 1714:00	Nike Apache	-	NASA 14.248UI	UIUC-GCA D/E-7	-	-	-	WI	-	-	-	186	-	-
1966-A14	2439137.26	1966 Jan 11 1817	Nike	-	Smoke 099	-	-	-	-	WI	-	-	-	16	-	-
1966-S64	2439143.44	1966 Jan 17 2239	Nike Apache	-	NASA 14.262CM	GCA Release 48 Na	-	-	-	WI	-	-	-	206	-	-
1966-S09	2439144.34	1966 Jan 18 2006	Nike Apache	-	BMRS	STV SR-022	-	-	-	WS	-	-	-	100?	-	-
1966-S66	2439143.52	1966 Jan 18 0032	Nike Apache	-	NASA 14.263CM	GCA Release 49 TMA	-	-	-	WI	-	-	-	205	-	-
1966-S67	2439143.58	1966 Jan 18 0200	Nike Apache	-	NASA 14.264CM	GCA Release 50 TMA	-	-	-	WI	-	-	-	167	-	-
1966-S69	2439143.72	1966 Jan 18 0512	Nike Apache	-	NASA 14.265CM	GCA Release 51 TMA	-	-	-	WI	-	-	-	207	-	-
1966-S70	2439143.98	1966 Jan 18 1131	Nike Apache	-	NASA 14.266CM	GCA Release 52 Na	-	-	-	WI	-	-	-	213	-	-
1966-S75	2439148.75	1966 Jan 23 0606	Astrobee 200	-	CRL AC15.732	Electron flux	-	-	-	FC	-	-	-	301	-	-
1966-S77	2439149.74	1966 Jan 24 0542	Nike Cajun	-	NASA 10.185GM	GSFC Grenade 98 C	-	-	-	FC	-	-	-	125	-	-
1966-S10	2439150.34	1966 Jan 24 2004	Nike Apache	-	-	STV SR-023	-	-	-	WS	-	-	-	100?	-	-
1966-S78	2439150.58	1966 Jan 25 0152	Nike Cajun	-	NASA 10.158UA	UM Falling Spheres	-	-	-	WI	-	-	-	167	-	-
1966-S80	2439152.24	1966 Jan 26 1745	Nike Apache	?	-	Sandia 154-59	-	-	-	KAU	-	-	-	92	-	-
1966-S81	2439152.49	1966 Jan 26 2350	Nike Apache	?	-	Sandia 154-60	-	-	-	KAU	-	-	-	110	-	-
1966-M04	2439153.78	1966 Jan 28 0643	Astrobee 200	-	CRL AC15.733	Electron flux	-	-	-	FC	-	-	-	61	-	-
1966-S89	2439158.34	1966 Feb 1 2011	Nike Cajun	-	NASA 10.182GM	GSFC Grenade 99 PB	-	-	-	PBA	-	-	-	117	-	-
1966-S90	2439158.37	1966 Feb 1 2046	Nike Cajun	-	NASA 10.147GM	GSFC Grenade 100 W	-	-	-	WI	-	-	-	118	-	-
1966-S91	2439158.58	1966 Feb 2 0202	Nike Cajun	-	NASA 10.186GM	GSFC Grenade 101 C	-	-	-	FC	-	-	-	118	-	-
1966-S96	2439160.27	1966 Feb 3 1831	Nike Cajun	-	NASA 10.159UA	UM Falling Spheres	-	-	-	WI	-	-	-	131	-	-
1966-S97	2439160.58	1966 Feb 4 0154	Nike Cajun	-	NASA 10.143UA	UM Falling Sphere 1/2	-	-	-	WI	-	-	-	152	-	-
1966-S99	2439164.71	1966 Feb 8 0500	Nike Apache	?	-	Sandia 154-70	-	-	-	KAU	-	-	-	100	-	-
1966-S100	2439166.74	1966 Feb 10 0551	Nike Apache	-	NASA 14.188GE	Auroral electrons 1	-	-	-	FC	-	-	-	178	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
						Launch										
1966-S101	2439166.80	1966 Feb 10 0709	Nike Cajun	-	NASA 10.187GM	GSFC Grenade 102 C	-	-	-	FC	-	-	-	117	-	-
1966-S102	2439166.83	1966 Feb 10 0748	Nike Cajun	-	NASA 10.148GM	GSFC Grenade 103 W	-	-	-	WI	-	-	-	114	-	-
1966-S103	2439166.83	1966 Feb 10 0800	Nike Cajun	-	NASA 10.183GM	GSFC Grenade 104 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S105	2439167.25	1966 Feb 10 1800	Nike Cajun	-	NASA 10.145GM	GSFC Grenade 105 C	-	-	-	FC	-	-	-	122	-	-
1966-S106	2439167.28	1966 Feb 10 1841	Nike Cajun	-	NASA 10.149GM	GSFC Grenade 106 W	-	-	-	WI	-	-	-	114	-	-
1966-S107	2439167.40	1966 Feb 10 2130	Nike Cajun	-	NASA 10.184GM	GSFC Grenade 107 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S116	2439174.18	1966 Feb 17 1616	Nike Apache	-	NASA 14.243UE	E/B currents	-	-	-	WI	-	-	-	186	-	-
1966-S117	2439174.71	1966 Feb 18 0456	Nike Apache	-	NASA 14.189GE	Auroral electrons 2	-	-	-	FC	-	-	-	209	-	-
1966-S118	2439175.50	1966 Feb 19 0005	Nike Javelin	-	CRL AFS.502	REDLAMP ROBIN	-	-	-	TORT	VB	-	-	192	-	-
1966-S120	2439176.51	1966 Feb 20 0010	Nike Javelin	-	CRL AFS.504	REDLAMP	-	-	-	TORT	VB	-	-	192	-	-
1966-S122	2439176.74	1966 Feb 20 0545	Nike Javelin	-	CRL AFS.505	REDLAMP TONI	-	-	-	TORT	VB	-	-	192	-	-
1966-A40	2439176.96	1966 Feb 20 1108	Nike Javelin	-	CRL AFS.508	REDLAMP	-	-	-	TORT	VB	-	-	10	-	-
1966-A41	2439178.29	1966 Feb 21 1854	Nike	-	Smoke 100	-	-	-	-	WI	-	-	-	22	-	-
1966-S134	2439182.08	1966 Feb 25 1359	Nike Apache	-	NASA 14.211IA	Rehbar 9 (Na)	-	-	-	SOM	-	-	-	200	-	-
1966-S136	2439183.08	1966 Feb 26 1359	Nike Apache	-	NASA 14.212IA	Rehbar 10 (Na)	-	-	-	SOM	-	-	-	200	-	-
1966-S137	2439184.20	1966 Feb 27 1651:59	Nike Apache	-	NASA 14.251UM	UM Pitot 20/AS-201	-	-	-	ASC	-	-	-	155	-	-
1966-A44	2439184.71	1966 Feb 28 0458	Nike Apache	-	NASA 14.252UM	UM Pitot 21/AS-201	-	-	-	ASC	-	-	-	20?	-	-
1966-S138	2439184.50	1966 Mar	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	120	-	-
1966-S139	2439184.50	1966 Mar	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	120	-	-
1966-S158	2439194.86	1966 Mar 10 0845	Nike Iroquois	-	CRL AF07.327	Bremss density	-	-	-	EGL	-	-	-	205	-	-
1966-S156	2439194.50	1966 Mar 10	Nike Javelin	-	-	DASA HAR	-	-	-	WS	LC33	-	-	200?	-	-
1966-S140	2439196.29	1966 Mar 11 1900	Nike Apache	-	-	STV SR-024	-	-	-	WS	-	-	-	100?	-	-
1966-A588	2439196.38	1966 Mar 11 2102	Nike Apache	-	-	STV SR-025	-	-	-	WS	-	-	-	2?	-	-
1966-S163	2439197.72	1966 Mar 13 0513	Nike Apache	-	NASA 14.190GE	Auroral electrons 3	-	-	-	FC	-	-	-	200?	-	-
1966-A46	2439201.36	1966 Mar 16 2035	Nike	-	Smoke 101	-	-	-	-	WI	-	-	-	16	-	-
1966-A47	2439202.25	1966 Mar 17 1802	Nike	-	Smoke 102	-	-	-	-	WI	-	-	-	13	-	-
1966-S176	2439204.01	1966 Mar 19 1220:30	Nike Javelin	-	-	HITAB 1	-	SAGE HEN	-	PA	LC-A	-	-	130?	-	-
1966-S179	2439206.46	1966 Mar 21 2304:02	Nike Apache	-	NASA 14.109GI	D-region composition	-	-	-	AND	-	-	-	133	-	-
1966-S181	2439207.67	1966 Mar 23 0407	Nike Tomahawk	-	NASA 18.07GE	Auroral	-	-	-	FC	-	-	-	290	-	-
1966-S183	2439209.06	1966 Mar 24 1330	Nike Apache	-	NASA 14.257IA	ISRO 10.07	TERLS-039	-	-	TERLS	-	-	-	201	-	-
1966-S184	2439209.15	1966 Mar 24 1531	Nike Cajun	-	NASA 10.180IM	Rehbar 11 (Grenades)	-	-	-	SOM	-	-	-	135	-	-
1966-S191	2439209.90	1966 Mar 25 0942:10?	Nike Javelin	-	-	HITAB 2	-	LEAD PENCIL	-	PA	LC-A	-	-	130?	-	-
1966-S189	2439209.51	1966 Mar 25 0019	Nike Apache	-	NASA 14.258IA	ISRO 10.08	TERLS-042	-	-	TERLS	-	-	-	201	-	-
1966-S193	2439212.22	1966 Mar 27 1712	Nike Apache	-	NASA 14.165IM	Rehbar 12 (Grenades)	-	-	-	SOM	-	-	-	190	-	-
1966-S141	2439214.30	1966 Mar 29 1914	Nike Apache	-	BMRS	STV SR-026	-	-	-	WS	-	-	-	100?	-	-
1966-S701	2439216.50	1966 Apr 1	Nike Javelin	-	Min 2 plume study	-	-	-	-	WC	CB	-	-	100?	-	-
1966-S209	2439222.20	1966 Apr 6 1652	Nike Apache	-	NASA 14.216AI	-	-	-	-	WI	-	-	-	174	-	-
1966-S215	2439223.67	1966 Apr 8 0401	Nike Apache	-	NASA 14.76UI	MIP 3	-	-	-	WI	-	-	-	159	-	-
1966-S218	2439229.75	1966 Apr 14 0555	Nike Tomahawk	-	NASA 18.08GE	Auroral	-	-	-	FC	-	-	-	296	-	-
1966-S200	2439237.28	1966 Apr 21 1845	Nike Apache	-	BMRS	STV SR-027	-	-	-	WS	-	-	-	100?	-	-
1966-S201	2439237.38	1966 Apr 21 2103	Nike Apache	-	BMRS	STV SR-028	-	-	-	WS	-	-	-	100?	-	-
1966-S230	2439236.59	1966 Apr 21 0210	Nike Apache	?	-	Sandia 154-75	-	-	-	TTR	-	-	-	160	-	-
1966-S199	2439238.59	1966 Apr 23 0210	Nike Cajun	-	RN026	NICAP/1 026	-	-	-	WS	-	-	-	120?	-	-
1966-S236	2439241.51	1966 Apr 26 0012	Nike Apache	-	NASA 14.249IM	Rehbar 13 (Gren/TMA)	-	-	-	SOM	-	-	-	190	-	-
1966-S198	2439242.50	1966 Apr 27	Nike Apache	-	BMTS	Range Test	1-stage firing	-	-	FW	-	-	-	10?	40	-
1966-S245	2439247.42	1966 May 1 2210	Nike Cajun	-	NASA 10.190GM	GSFC Grenade 108 PB	-	-	-	PBA	-	-	-	126	-	-
1966-S240	2439248.05	1966 May 2 1318	Nike Apache	-	BMTS	Range Test	1-stage firing	-	-	FW	-	-	-	10?	40	-
1966-S241	2439248.10	1966 May 2 1426	Nike Apache	-	BMRS	STV SR-029	-	-	-	WS	-	-	-	100?	-	-
1966-S242	2439248.20	1966 May 2 1647	Nike Apache	-	BMRS	STV SR-030	-	-	-	WS	-	-	-	100?	-	-
1966-S247	2439247.55	1966 May 2 0114	Nike Cajun	-	NASA 10.188GM	GSFC Grenade 109 W	-	-	-	WI	-	-	-	131	-	-
1966-S248	2439247.55	1966 May 2 0119	Nike Cajun	-	NASA 10.194GM	GSFC Grenade 110 N	-	-	-	CLBI	-	-	-	126	-	-
1966-S249	2439247.61	1966 May 2 0232	Nike Cajun	-	NASA 10.192GM	GSFC Grenade 111 C	-	-	-	FC	-	-	-	126	-	-
1966-S251	2439249.42	1966 May 3 2201	Nike Cajun	-	NASA 10.191GM	GSFC Grenade 112 PB	-	-	-	PBA	-	-	-	126	-	-
1966-S252	2439249.51	1966 May 4 0008	Nike Cajun	-	NASA 10.193GM	GSFC Grenade 113 C	-	-	-	FC	-	-	-	123	-	-
1966-S253	2439249.53	1966 May 4 0037	Nike Cajun	-	NASA 10.189GM	GSFC Grenade 114 W	-	-	-	WI	-	-	-	119	-	-
1966-S255	2439249.56	1966 May 4 0120	Nike Cajun	-	NASA 10.195GM	08 CNAE 6605/Gren.	-	-	-	CLBI	-	-	-	141	-	-
1966-A63	2439249.50	1966 May 4	Nike Apache	-	BMTS-22	Target	-	-	-	FW	-	-	-	1?	-	-
1966-S259	2439256.50	1966 May 11	Nike Tomahawk	9	Sandia 152-24	Radiochemistry?	-	-	-	KAU	-	-	-	302	-	-
1966-S274	2439268.50	1966 May 23	Nike Tomahawk	9	Sandia 152-91	ACS	-	-	-	KAU	-	-	-	270?	-	-
1966-S243	2439270.42	1966 May 24 2200	Nike Apache	-	BMRS	STV SR-031	-	-	-	WS	-	-	-	100?	-	-
1966-S277	2439269.50	1966 May 24	Nike Tomahawk	9	Sandia 152-60	SPACS test	-	-	-	KAU	-	-	-	270?	-	-
1966-S280	2439271.50	1966 May 26	Nike Tomahawk	9	Sandia 152-92	ACS	-	-	-	KAU	-	-	-	270?	-	-
1966-S289	2439276.50	1966 Jun	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	120?	-	-
1966-S288	2439279.20	1966 Jun 2 1643	Nike Apache	-	BMTS	STV SR-032	-	-	-	FW	-	-	-	120?	-	-
1966-S290	2439283.91	1966 Jun 7 0944	Nike Apache	-	BMRS Photometric	STV SR-033 Photometric	-	-	-	WS	-	-	-	100?	-	-
1966-S302	2439285.12	1966 Jun 8 1450	Nike Apache	?	-	Sandia 154-53	-	-	-	KAU	-	-	-	173	-	-
1966-S303	2439285.14	1966 Jun 8 1515	Nike Cajun	?	-	Sandia 154-66	-	-	-	KAU	-	-	-	100	-	-
1966-S310	2439288.75	1966 Jun 12 0554	Nike Apache	?	-	Sandia 154-55	-	-	-	KAU	-	-	-	165	-	-
1966-S311	2439288.82	1966 Jun 12 0737	Nike Apache	?	-	Sandia 154-52	-	-	-	KAU	-	-	-	160	-	-
1966-S312	2439288.87	1966 Jun 12 0857	Nike Apache	?	-	Sandia 154-56	-	-	-	KAU	-	-	-	170	-	-
1966-S313	2439288.89	1966 Jun 12 0918	Nike Cajun	?	-	Sandia 154-71	-	-	-	KAU	-	-	-	100	-	-
1966-S751	2439289.91	1966 Jun 13 0944	Nike Apache	-	BMRS Photometric	STV SR-034 Photometric	-	-	-	WS	-	-	-	100?	-	-
1966-S315	2439290.89	1966 Jun 14 0918	Nike Apache	-	NASA 14.270UI	-	-	-	-	WI	-	-	-	186	-	-
1966-S320	2439292.74	1966 Jun 16 0546	Nike Apache	?	-	Sandia 154-84	-	-	-	KAU	-	-	-	170	-	-
1966-S321	2439292.77	1966 Jun 16 0625	Nike Apache	?	-	Sandia 154-82	-	-	-	KAU	-	-	-	110	-	-
1966-S324	2439293.63	1966 Jun 17 0313	Nike Cajun	-	NASA 10.198GM	GSFC Grenade 116 C	-	-	-	FC	-	-	-	123	-	-
1966-S323	2439293.64	1966 Jun 17 0318	Nike Cajun	-	NASA 10.196GM	GSFC Grenade 117 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S325	2439294.56	1966 Jun 18 0125	Nike Cajun	-	CRL AF6.501	ANGELA (TMA)	-	-	-	EGL	-	-	-	217	-	-
1966-S333	2439299.77	1966 Jun 23 0635	Nike Cajun	-	NASA 10.199GM	GSFC Grenade 118 C	-	-	-	FC	-	-	-	123	-	-
1966-S334	2439299.83	1966 Jun 23 0752	Nike Cajun	-	NASA 10.197GM	GSFC Grenade 119 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S335	2439299.87	1966 Jun 23 0853	Nike Iroquois	-	CRL AF07.621	DALE (Niro TMA E1)	-	-	-	EGL	-	-	-	158	-	-
1966-S338	2439301.56	1966 Jun 25 0130	Nike Iroquois	-	CRL AF07.506	-	-	-	-	EGL	-	-	-	130	-	-
1966-S339	2439301.65	1966 Jun 25 0336	Nike Iroquois	-	CRL AF07.509	BABY	-	-	-	EGL	-	-	-	157	-	-
1966-S340	2439301.84	1966 Jun 25 0815	Nike Iroquois	-	CRL AF07.620	CORA	-	-	-	EGL	-	-	-	140	-	-
1966-S341	2439301.91	1966 Jun 25 0957	Nike Iroquois	-	CRL AF07.507	-	-	-	-	EGL	-	-	-	179	-	-
1966-S344	2439303.41	1966 Jun 26 2147:13	Nike Apache	-	Ferdinand 13	50/70 Hz probe	-	-	-	AND	-	-	-	138	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
						Launch										
1966-S739	2439307.50	1966 Jul 1	Nike Cajun	-	-	NICAP/1 66-02	-	-	-	WS	-	-	-	120?	-	-
1966-S360	2439313.84	1966 Jul 7 0815	Nike Apache	-	NASA 14.59IE	ISRO 20.05	TERLS-044	-	-	TERLS	-	-	-	178	-	-
1966-S742	2439313.94	1966 Jul 7 1038	Nike Cajun	-	-	NICAP/1 66-03	-	-	-	WS	-	-	-	120?	-	-
1966-S365	2439318.30	1966 Jul 11 1918	Nike Apache	-	NASA 14.96UA	Density profile	-	-	-	FC	-	-	-	202	-	-
1966-S372	2439321.14	1966 Jul 14 1515	Nike Apache	-	NASA 14.166II	-	-	-	-	WI	-	-	-	195	-	-
1966-S743	2439322.30	1966 Jul 15 1909	Nike Cajun	-	-	NICAP/1 66-04	-	-	-	WS	-	-	-	120?	-	-
1966-S354	2439322.50	1966 Jul 16	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	120?	-	-
1966-S374	2439323.54	1966 Jul 17 0056	Nike Apache	-	NASA 14.291CM	GCA Release 53 Na	-	-	-	WI	-	-	-	192	-	-
1966-S376	2439323.71	1966 Jul 17 0500:00	Nike Apache	-	NASA 14.292CM	GCA Release 54 TMA	-	-	-	WI	-	-	-	211	-	-
1966-S377	2439323.78	1966 Jul 17 0645	Nike Apache	-	NASA 14.293CM	GCA Release 55 TMA	-	-	-	WI	-	-	-	199	-	-
1966-S378	2439323.85	1966 Jul 17 0825	Nike Apache	-	NASA 14.294CM	GCA Release 56 TMA	-	-	-	WI	-	-	-	200	-	-
1966-S379	2439323.88	1966 Jul 17 0908	Nike Apache	-	NASA 14.295CM	GCA Release 57 Na	-	-	-	WI	-	-	-	208	-	-
1966-S744	2439325.49	1966 Jul 18 2340	Nike Cajun	-	-	NICAP/1 66-09	-	-	-	WS	-	-	-	120?	-	-
1966-S383	2439327.33	1966 Jul 20 1950	Nike Apache	-	NASA 14.218GE	SPICE 1 (PCA)	-	-	-	FC	-	-	-	161	-	-
1966-S349	2439327.50	1966 Jul 21	Nike Apache	-	BMRS	STV SR-033	-	-	-	WS	-	-	-	100?	-	-
1966-A89	2439329.30	1966 Jul 22 1919	Nike	-	Smoke 103	-	-	-	-	WI	-	-	-	17	-	-
1966-S351	2439330.75	1966 Jul 24 0605	Nike Cajun	-	-	NICAP/1 66-16	-	-	-	WS	-	-	-	120?	-	-
1966-S352	2439330.81	1966 Jul 24 0730	Nike Cajun	-	-	NICAP/1 66-17	-	-	-	WS	-	-	-	120?	-	-
1966-S353	2439330.88	1966 Jul 24 0900	Nike Cajun	-	-	NICAP/1 66-18	-	-	-	WS	-	-	-	120?	-	-
1966-S738	2439330.93	1966 Jul 24 1015	Nike Cajun	-	-	NICAP/1 66-19	-	-	-	WS	-	-	-	120?	-	-
1966-S740	2439330.99	1966 Jul 24 1145	Nike Cajun	-	-	NICAP/1 66-20	-	-	-	WS	-	-	-	120?	-	-
1966-S741	2439331.04	1966 Jul 24 1300	Nike Cajun	-	-	NICAP/1 66-21	-	-	-	WS	-	-	-	120?	-	-
1966-S350	2439335.21	1966 Jul 28 1700	Nike Apache	-	BMRS	STV SR-034	-	-	-	WS	-	-	-	100?	-	-
1966-S401	2439334.61	1966 Jul 28 0236:00	Nike Tomahawk	12	Sandia 152-54	LRL BOX-6	-	-	-	KAU	-	-	-	173	-	-
1966-S406	2439337.50	1966 Aug	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	120?	-	-
1966-S418	2439338.79	1966 Aug 1 0700	Nike Apache	-	ERDA 66-24	Sphere	-	-	-	WS	-	-	-	200?	-	-
1966-S420	2439338.88	1966 Aug 1 0906	Nike Apache	-	ERDA 66-25	Sphere	-	-	-	WS	-	-	-	200?	-	-
1966-S421	2439339.00	1966 Aug 1 1200	Nike Apache	-	ERDA 66-26	Sphere	-	-	-	WS	-	-	-	200?	-	-
1966-S408	2439339.26	1966 Aug 1 1811	Nike Apache	-	ERDA 66-22	Sphere	-	-	-	WS	-	-	-	200?	-	-
1966-S409	2439339.38	1966 Aug 1 2105	Nike Apache	-	ERDA 66-23	Sphere	-	-	-	WS	-	-	-	200?	-	-
1966-S410	2439339.50	1966 Aug 2	Nike Tomahawk	9	Sandia 152-29	Scan Converter	-	-	-	KAU	-	-	-	303	-	-
1966-S411	2439339.50	1966 Aug 2	Nike Tomahawk	9	Sandia 152-102	ACS	-	-	-	KAU	-	-	-	306	-	-
1966-S752	2439341.21	1966 Aug 3 1700	Nike Apache	-	-	SPEEDBALL II 87 SN33	-	-	-	WS	-	-	-	150?	-	-
1966-S404	2439341.90	1966 Aug 4 0930	Nike Apache	-	BMTS	STV SR-035	-	-	-	FW	-	-	-	120?	-	-
1966-S414	2439341.50	1966 Aug 4	Nike Tomahawk	12	Sandia 152-19	Airglow	-	-	-	KAU	-	-	-	159	-	-
1966-S415	2439341.50	1966 Aug 4	Nike Tomahawk	9	Sandia 152-32	Scan Converter	-	-	-	KAU	-	-	-	300	-	-
1966-S416	2439341.50	1966 Aug 4	Nike Tomahawk	9	Sandia 152-85	ACS	-	-	-	KAU	-	-	-	300	-	-
1966-S422	2439344.79	1966 Aug 7 0700	Nike Apache	-	NASA 14.296GM	GSFC Grenade NA1	-	-	-	WI	-	-	-	200?	-	-
1966-S423	2439344.80	1966 Aug 7 0705	Nike Cajun	-	NASA 10.204GM	GSFC Grenade 120 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S424	2439344.86	1966 Aug 7 0845	Nike Apache	-	-	ISRO 20.05 TERLS-46?	Spurious?	-	-	TERLS	-	-	-	175	-	-
1966-S425	2439344.88	1966 Aug 7 0904	Nike Cajun	-	NASA 10.202GM	GSFC Grenade 121 C	-	-	-	FC	-	-	-	123	-	-
1966-S426	2439344.91	1966 Aug 7 0948:51	Nike Apache	-	NASA 14.289UM	UM Pitot 22/Noctil.	-	-	-	FC	-	-	-	152	-	-
1966-S427	2439345.23	1966 Aug 7 1735	Nike Cajun	-	NASA 10.203GM	GSFC Grenade 122 C	-	-	-	FC	-	-	-	123	-	-
1966-S428	2439345.37	1966 Aug 7 2046	Nike Cajun	-	NASA 10.206GM	GSFC Grenade 123 W	-	-	-	WI	-	-	-	100?	-	-
1966-S429	2439345.48	1966 Aug 7 2326	Nike Cajun	-	NASA 10.205GM	GSFC Grenade 124 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S434	2439348.50	1966 Aug 11	Nike Tomahawk	9	Sandia 152-86	ACS	-	-	-	KAU	-	-	-	300	-	-
1966-S438	2439352.36	1966 Aug 14 2035	Nike Cajun	-	NASA 10.200GM	GSFC Grenade 125 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S439	2439352.84	1966 Aug 15 0808	Nike Cajun	-	NASA 10.201GM	GSFC Grenade 126 PB	-	-	-	PBA	-	-	-	100?	-	-
1966-S441	2439353.40	1966 Aug 15 2135	Nike Apache	-	NASA 14.170UA	Pandora 2?	-	-	-	WS	-	-	-	160	-	-
1966-S446	2439355.33	1966 Aug 17 1950	Aerobee 350	-	NASA 17.02GT-GI-GS	-	-	-	-	WI	-	-	-	358	-	-
1966-S452	2439362.38	1966 Aug 24 2100	Nike Apache	-	NASA 14.183UE	UNH neutrons	-	-	-	FC	-	-	-	157	-	-
1966-S453	2439362.47	1966 Aug 24 2315	Nike Apache	-	NASA 14.271UI	-	-	-	-	WI	-	-	-	164	-	-
1966-S455	2439362.53	1966 Aug 25 0045	Nike Apache	-	NASA 14.272UI	-	-	-	-	WI	-	-	-	169	-	-
1966-S458	2439364.27	1966 Aug 26 1831	Nike Tomahawk	-	NASA 18.05GA	UM Thermosphere 4	-	-	-	WI	-	-	-	287	-	-
1966-S459	2439364.29	1966 Aug 26 1851	Nike Tomahawk	-	NASA 18.06GA	UM Thermosphere 5	-	-	-	WI	-	-	-	308	-	-
1966-S460	2439364.30	1966 Aug 26 1911:00	Nike Apache	-	NASA 14.285UM	UM Pitot 23/Thermo	-	-	-	WI	-	-	-	149	-	-
1966-S463	2439365.67	1966 Aug 28 0403:00	Nike Tomahawk	-	NASA 18.22GA	UM Thermosphere 6	-	-	-	WI	-	-	-	323	-	-
1966-S462	2439365.68	1966 Aug 28 0423:00	Nike Apache	-	NASA 14.286UM	UM Pitot 24/Thermo	-	-	-	WI	-	-	-	151	-	-
1966-S405	2439368.11	1966 Aug 30 1440	Nike Apache	-	BMTS	STV SR-036	-	-	-	FW	-	-	-	120?	-	-
1966-S471	2439368.50	1966 Sep	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1966-S472	2439368.50	1966 Sep	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1966-S473	2439368.50	1966 Sep	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1966-S477	2439370.29	1966 Sep 1 1858	Nike Tomahawk	-	NASA 18.18UE	Auroral radiation	-	-	-	FC	-	-	-	242	-	-
1966-S479	2439371.11	1966 Sep 2 1437	Nike Apache	-	NASA 14.219GE	SPICE 2A?	-	-	-	FC	-	-	-	164	-	-
1966-S480	2439371.44	1966 Sep 2 2227	Nike Apache	-	NASA 14.220GE	SPICE 2	-	-	-	FC	-	-	-	159	-	-
1966-S482	2439372.23	1966 Sep 3 1724	Nike Apache	-	NASA 14.221GE	SPICE 3	-	-	-	FC	-	-	-	160	-	-
1966-S483	2439375.02	1966 Sep 6 1227	Nike Tomahawk	-	NASA 18.20UE	Auroral radiation	-	-	-	FC	-	-	-	238	-	-
1966-S484	2439375.25	1966 Sep 6 1802	Nike Tomahawk	-	NASA 18.21UE	Auroral radiation	-	-	-	FC	-	-	-	243	-	-
1966-S469	2439378.12	1966 Sep 9 1500	Nike Apache	-	BMTS	SPEEDBALL II 88 SN34	-	-	-	FW	-	-	-	150?	-	-
1966-S485	2439382.57	1966 Sep 14 0135:22	Nike Apache	-	NASA 14.278CA	GCA Ionos-TMA 9	-	-	-	FC	-	-	-	157	-	-
1966-S486	2439382.68	1966 Sep 14 0423:00	Nike Apache	-	NASA 14.279CA	GCA Ionos-TMA 10	-	-	-	FC	-	-	-	186	-	-
1966-S489	2439384.56	1966 Sep 16 0122:00	Nike Apache	-	NASA 14.280CA-CI	GCA Ionos-TMA 11	-	-	-	FC	-	-	-	185	-	-
1966-S490	2439384.62	1966 Sep 16 0300:00	Nike Apache	-	NASA 14.281CA-CI	GCA Ionos-TMA 12	-	-	-	FC	-	-	-	185	-	-
1966-S491	2439384.68	1966 Sep 16 0417	Nike Apache	-	NASA 14.282CA-CI	GCA Ionos-TMA 13	-	-	-	FC	-	-	-	206	-	-
1966-S492	2439385.16	1966 Sep 16 1554	Nike Apache	-	NASA 14.164UI	-	-	-	-	WI	-	-	-	166	-	-
1966-U07	2439385.58	1966 Sep 17 0157	Nike Cajun	-	Meteor 9	-	Meteor 9	-	-	WI	-	-	-	110	-	-
1966-S493	2439385.62	1966 Sep 17 0253	Nike Tomahawk	-	NASA 18.19UE	Auroral radiation	-	-	-	FC	-	-	-	243	-	-
1966-S494	2439387.50	1966 Sep 19	Nike Tomahawk	9	Sandia 152-25	Sampler (Camera)	-	-	-	JI	-	-	-	300	-	-
1966-S731	2439389.18	1966 Sep 20 1613	Nike Hydac	-	STV SR-38	Mk 12 STV	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1966-S499	2439389.15	1966 Sep 20 1534:00	Nike Tomahawk	12	Sandia 152-99	LRL BOX-7	-	-	-	JI	-	-	-	168	-	-
1966-S502	2439391.22	1966 Sep 22 1710:00	Nike Tomahawk	12	Sandia 152-98	LRL AXE-1	-	-	-	JI	-	-	-	160	-	-
1966-A109	2439392.33	1966 Sep 23 1951	Nike	-	Smoke 104	-	-	-	-	WI	-	-	-	16	-	-
1966-S505	2439393.91	1966 Sep 25 0951	Nike Tomahawk	-	NASA 18.26IA	MPE Ba	-	-	-	WI	-	-	-	280	-	-
1966-S733	2439396.11	1966 Sep 27 1435	Nike Hydac	-	STV SR-39	Mk 12 STV	-	-	-	WS	-	-	-	100?	-	-
1966-S470	2439395.50	1966 Sep 27	Nike Apache	-	BMTS	Target	-	-	-	FW	-	-	-	100?	200	Madgalena
1966-S753	2439397.22	1966 Sep 28 1720	Nike Apache	-	BMTS	SPEEDBALL II 89 SN35	-	-	-	WS	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S515	2439399.23	1966 Sep 30 1735	Nike Cajun	-	NASA 10.146GM	GSFC Grenade 127 W	-	-	-	WI	-	-	-	118	-	-
1966-S516	2439399.49	1966 Sep 30 2350	Nike Apache	-	NASA 14.217GM	GSFC Grenade NA2	-	-	-	WI	-	-	-	153	-	-
1966-S518	2439399.73	1966 Oct 1 0530	Nike Cajun	-	NASA 10.209GM	GSFC Grenade 128 W	-	-	-	WI	-	-	-	115	-	-
1966-S519	2439399.85	1966 Oct 1 0823	Nike Cajun	-	NASA 10.211GM	GSFC Grenade 129 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S521	2439399.98	1966 Oct 1 1127	Nike Cajun	-	NASA 10.210GM	GSFC Grenade 130 W	-	-	-	WI	-	-	-	126	-	-
1966-S522	2439400.36	1966 Oct 1 2039	Nike Cajun	-	NASA 10.212GM	GSFC Grenade 131 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S523	2439400.60	1966 Oct 2 0220	Nike Cajun	-	NASA 10.213GM	GSFC Grenade 132 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S524	2439400.85	1966 Oct 2 0820	Nike Cajun	-	NASA 10.214GM	GSFC Grenade 133 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S525	2439401.09	1966 Oct 2 1409	Nike Cajun	-	NASA 10.215GM	GSFC Grenade 134 N	-	-	-	CLBI	-	-	-	100?	-	-
1966-S732	2439403.08	1966 Oct 4 1402	Nike Hydac	-	STV SR-40	-	-	-	-	WS	-	-	-	100?	-	-
1966-S511	2439404.34	1966 Oct 5 2004	Nike Apache	-	BMRS	SPEEDBALL II 90 SN36	-	-	-	WS	-	-	-	150?	-	-
1966-A117	2439406.30	1966 Oct 7 1912	Nike	-	Smoke 105	-	-	-	-	WI	-	-	-	22	-	-
1966-S537	2439409.21	1966 Oct 10 1657	Nike Iroquois	-	CRL AF07.348	-	-	-	-	EGL	-	-	-	179	-	-
1966-A118	2439409.22	1966 Oct 10 1720	Nike Iroquois	-	CRL AF07.349	-	-	-	-	EGL	-	-	-	48	-	-
1966-A119	2439410.26	1966 Oct 11 1817	Nike	-	Smoke 106	-	-	-	-	WI	-	-	-	23	-	-
1966-S512	2439411.20	1966 Oct 12 1648	Nike Apache	-	BMRS	SPEEDBALL II 91 SN37	-	-	-	WS	-	-	-	150?	-	-
1966-S735	2439411.32	1966 Oct 12 1941	Nike Apache	-	BMRS	SPEEDBALL II 92 SN38	-	-	-	WS	-	-	-	150?	-	-
1966-S544	2439413.22	1966 Oct 14 1720	Nike Iroquois	-	CRL AE07.813	-	-	-	-	EGL	-	-	-	138	-	-
1966-S734	2439424.31	1966 Oct 25 1920	Nike Hydac	-	STV SR-41	-	-	-	-	WS	-	-	-	100?	-	-
1966-S562	2439424.26	1966 Oct 25 1810	Nike Cajun	-	NASA 10.181AI	D-Region Probe	-	-	-	WS	-	-	-	119	-	-
1966-A125	2439427.26	1966 Oct 28 1809	Nike	-	Smoke 107	-	-	-	-	WI	-	-	-	16	-	-
1966-M38	2439429.09	1966 Oct 30 1406	Nike Cajun	-	CRL AC6.710	Optics test	-	-	-	EGL	-	-	-	80	-	-
1966-S572	2439429.50	1966 Nov	Nike Apache	?	BMRS	-	-	-	-	WS	-	-	-	100?	-	-
1966-S587	2439435.12	1966 Nov 5 1455:21	Nike Hydac	-	Cert. Round	-	-	-	-	CASS	-	-	-	96	-	-
1966-M39	2439435.15	1966 Nov 05 1535:00	Nike Javelin	-	Cert. Round	-	-	-	-	CASS	-	-	-	80?	-	-
1966-S590	2439438.23	1966 Nov 8 1732	Nike Tomahawk	-	NASA 18.04GE	Fields	-	-	-	WI	-	-	-	216	-	-
1966-S596	2439440.69	1966 Nov 11 0433	Nike Apache	-	NASA 14.287IE	Satellite payload test	-	-	-	FC	-	-	-	193	-	-
1966-S602	2439442.00	1966 Nov 12 1200	Nike Tomahawk	9	Sandia 152-93	-	Solar Eclipse	-	-	CASS?	-	-	-	297	-	-
1966-M41	2439442.07	1966 Nov 12 1338:00	Nike Javelin	-	D-003C	-	Solar Eclipse	-	-	CASS	-	-	-	80	-	-
1966-S610	2439442.07	1966 Nov 12 1345?	Nike Hydac	-	-	-	Solar Eclipse	-	-	CASS	-	-	-	250	-	-
1966-M43	2439442.08	1966 Nov 12 1350:00	Nike Javelin	-	D-015C	-	Solar Eclipse	-	-	CASS	-	-	-	80	-	-
1966-S611	2439442.08	1966 Nov 12 1355:19	Nike Hydac	-	D-4	-	Solar Eclipse	-	-	CASS	-	-	-	115	-	-
1966-S605	2439442.08	1966 Nov 12 1401:59	Nike Apache	-	NASA 14.77CA	GCA Release 58 TMA	Solar Eclipse	-	-	CASS	-	-	-	185	-	-
1966-S606	2439442.09	1966 Nov 12 1405	Nike Apache	-	NASA 14.274UI	-	Solar Eclipse	-	-	CASS	-	-	-	197	-	-
1966-S607	2439442.09	1966 Nov 12 1407	Nike Apache	-	NASA 14.302UI	Brazil EUV/Mass spec	Solar Eclipse	-	-	CASS	-	-	-	160	-	-
1966-S604	2439442.09	1966 Nov 12 1407	Nike Tomahawk	9	Sandia 152-94	-	Solar Eclipse	-	-	CASS?	-	-	-	115	-	-
1966-M42	2439442.09	1966 Nov 12 1408:00	Nike Javelin	-	D-010C	-	Solar Eclipse	-	-	CASS	-	-	-	80	-	-
1966-S612	2439442.09	1966 Nov 12 1408:37	Nike Hydac	-	D-11	-	Solar Eclipse	-	-	CASS	-	-	-	250	-	-
1966-S608	2439442.09	1966 Nov 12 1410	Nike Apache	-	NASA 14.304UI	-	Solar Eclipse	-	-	CASS	-	-	-	195	-	-
1966-S613	2439442.10	1966 Nov 12 1422:30	Nike Hydac	-	D-13	-	Solar Eclipse	-	-	CASS	-	-	-	115	-	-
1966-S609	2439442.11	1966 Nov 12 1443	Nike Tomahawk	9	Sandia 152-95	-	Solar Eclipse	-	-	CASS?	-	-	-	115	-	-
1966-M44	2439442.15	1966 Nov 12 1535:00	Nike Javelin	-	D-016C	-	Solar Eclipse	-	-	CASS	-	-	-	80	-	-
1966-S614	2439442.17	1966 Nov 12 1600	Nike Apache	-	NASA 14.303UI	-	Solar Eclipse	-	-	CASS	-	-	-	200	-	-
1966-S621	2439445.06	1966 Nov 15 1323	Nike Hydac	-	-	-	-	-	-	CASS	-	-	-	150?	-	-
1966-S750	2439445.16	1966 Nov 15 1545	Nike Hydac	-	-	Mk 12 STV SR-042	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1966-S662	2439448.38	1966 Nov 18 2100	Nike Apache	-	BMRS	SPEEDBALL II 93 SN39	-	-	-	WS	-	-	-	100?	-	-
1966-S633	2439448.43	1966 Nov 18 2215	Nike Apache	-	NASA 14.299UA	Pandora A?	-	-	-	WS	-	-	-	161	-	-
1966-S736	2439448.46	1966 Nov 18 2300	Nike Apache	-	BMRS	SPEEDBALL II 94 SN40	-	-	-	WS	-	-	-	100?	-	-
1966-S737	2439448.54	1966 Nov 19 0100	Nike Apache	-	BMRS	SPEEDBALL II 95 SN41	-	-	-	WS	-	-	-	100?	-	-
1966-S729	2439452.17	1966 Nov 22 1602	Nike Hydac	-	-	STV SR-43	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1966-S664	2439460.30	1966 Nov 30 1906	Nike Tomahawk	-	NASA 18.27UE	UNH/Particles	-	-	-	WI	-	-	-	359	-	-
1966-S730	2439461.14	1966 Dec 1 1523	Nike Hydac	-	-	STV SR-44	-	-	-	WS	-	-	-	100?	-	-
1966-S674	2439468.96	1966 Dec 9 1100	Nike Cajun	-	NASA 10.160GM	GSFC Ozone 1	-	-	-	WS	-	-	-	120?	-	-
1966-S686	2439473.84	1966 Dec 14 0816	Astrobee 200	-	CRL AC15.735	AE15.735 elec flux	-	-	-	FC	-	-	-	212	-	-
1967-S627	2439496.17	1967 Jan 5 1600	Nike Hydac	-	-	STV SR-45	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1967-S632	2439502.22	1967 Jan 11 1722	Nike Apache	-	-	SPEEDBALL II 96 SN42	-	-	-	WS	-	-	-	150?	-	-
1967-A48	2439502.44	1967 Jan 11 2231	Nike Iroquois	-	CRL AF07.500	Release Ba	-	-	-	EGL	-	-	-	20	-	-
1967-S56	2439506.99	1967 Jan 16 1148	Nike Iroquois	-	CRL AF07.654	IRIS (Niro TMA E2)	-	-	-	EGL	-	-	-	217	-	-
1967-S57	2439507.48	1967 Jan 16 2334	Nike Iroquois	-	CRL AF07.503	Release Ba	-	-	-	EGL	-	-	-	193	-	-
1967-S58	2439507.50	1967 Jan 17 0004	Nike Iroquois	-	CRL AF07.653	JILL (Niro TMA E3)	-	-	-	EGL	-	-	-	155	-	-
1967-S65	2439510.47	1967 Jan 19 2322	Nike Iroquois	-	CRL AF07.655	Release	-	-	-	EGL	-	-	-	107	-	-
1967-A50	2439510.47	1967 Jan 19 2322	Nike Iroquois	-	CRL AF07.656	Niro TMA E4?	-	-	-	EGL	-	-	-	20	-	-
1967-S69	2439513.79	1967 Jan 23 0700	Nike Apache	-	Sphere 37	MD-67-1 NICAP	RO-67-1/ERDA 67-1	-	-	WS	-	-	-	108	-	-
1967-S70	2439513.92	1967 Jan 23 1000	Nike Apache	-	Sphere	MD-67-2 NICAP	ERDA 67-2	-	-	WS	-	-	-	108	-	-
1967-S71	2439514.04	1967 Jan 23 1300	Nike Apache	-	Sphere 35	MD-67-3 NICAP	ERDA 67-3	-	-	WS	-	-	-	82	-	-
1967-S72	2439514.31	1967 Jan 23 1925	Nike Apache	-	Sphere 36	MD-67-4 NICAP	ERDA 67-4	-	-	WS	-	-	-	90	-	-
1967-S625	2439515.25	1967 Jan 24 1800	Nike Hydac	-	-	STV SR-46	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1967-S626	2439515.35	1967 Jan 24 2029	Nike Hydac	-	-	STV SR-47	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1967-S75	2439514.88	1967 Jan 24 0900:00	Nike Tomahawk	-	MUMP-8 (ETR-1474)	Diurnal thermosphere	-	-	-	CC	-	-	-	325	-	-
1967-S76	2439514.99	1967 Jan 24 1151:26	Nike Tomahawk	-	MUMP-6 (ETR-1828)	-	-	-	-	CC	-	-	-	325	-	-
1967-S77	2439515.13	1967 Jan 24 1508:54	Nike Tomahawk	-	MUMP-3 (ETR-1165)	-	-	-	-	CC	-	-	-	324	-	-
1967-S78	2439515.32	1967 Jan 24 1933:59	Nike Tomahawk	-	MUMP-1 (ETR-0381)	-	-	-	-	CC	-	-	-	336	-	-
1967-S79	2439515.45	1967 Jan 24 2250:00	Nike Tomahawk	-	MUMP-2 (ETR-0611)	-	-	-	-	CC	-	-	-	320	-	-
1967-S80	2439515.62	1967 Jan 25 0300:00	Nike Tomahawk	-	MUMP-7 (ETR-0851)	-	-	-	-	CC	-	-	-	327	-	-
1967-S599	2439517.28	1967 Jan 26 1845	Nike Apache	-	ERDA 67-5 Sphere	NICAP RO-67-5	-	-	-	WS	-	-	-	104	-	-
1967-S86	2439518.72	1967 Jan 28 0516	Nike Tomahawk	-	NASA 18.23GE	Particle fluxes	-	-	-	FC	-	-	-	285	-	-
1967-S92	2439522.28	1967 Jan 31 1850	Nike Apache	-	NASA 14.275UI	Electron density	-	-	-	WI	-	-	-	195	-	-
1967-S93	2439522.30	1967 Jan 31 1911	Nike Cajun	-	NASA 10.207GM	GSFC Grenade 135 W	-	-	-	WI	-	-	-	110	-	-
1967-S95	2439522.47	1967 Jan 31 2317:00	Nike Apache	-	NASA 14.319UM	UM Pitot 25/Rel?	-	-	-	FC	-	-	-	163	-	-
1967-S96	2439522.47	1967 Jan 31 2320	Nike Apache	-	NASA 14.310CM	GCA Release 59 TMA?	-	-	-	FC	-	-	-	154	-	-
1967-S97	2439522.49	1967 Jan 31 2348	Nike Cajun	-	NASA 10.216GM	GSFC Grenade 136 PB	-	-	-	PBA	-	-	-	126	-	-
1967-A55	2439522.55	1967 Feb 1 0109	Nike Apache	-	NASA 14.315UM	UM Pitot 26/Rel?	-	-	-	FC	-	-	-	0?	-	-
1967-S98	2439522.55	1967 Feb 1 0112	Nike Apache	-	NASA 14.311CM	GCA Release 60 TMA?	-	-	-	FC	-	-	-	194	-	-
1967-S99	2439522.57	1967 Feb 1 0141	Nike Cajun	-	NASA 10.217GM	GSFC Grenade 137 PB	-	-	-	PBA	-	-	-	126	-	-
1967-S100	2439522.66	1967 Feb 1 0346	Nike Apache	-	NASA 14.317UM	UM Pitot 27/Rel?	-	-	-	FC	-	-	-	139	-	-
1967-S101	2439522.66	1967 Feb 1 0349	Nike Apache	-	NASA 14.312CM	GCA Release 61 TMA?	-	-	-	FC	-	-	-	193	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S102	2439522.68	1967 Feb 1 0418	Nike Cajun	-	NASA 10.218GM	GSFC Grenade 138 PB	-	-	-	PBA	-	-	-	126	-	-
1967-S103	2439522.73	1967 Feb 1 0538:00	Nike Apache	-	NASA 14.318UM	UM Pitot 28/Rel?	-	-	-	FC	-	-	-	164	-	-
1967-S104	2439522.74	1967 Feb 1 0541	Nike Apache	-	NASA 14.313CM	GCA Release 62 TMA?	-	-	-	FC	-	-	-	194	-	-
1967-S105	2439522.82	1967 Feb 1 0741	Nike Cajun	-	NASA 10.219GM	GSFC Grenade 139 PB	-	-	-	PBA	-	-	-	126	-	-
1967-S106	2439522.85	1967 Feb 1 0825:59	Nike Apache	-	NASA 14.316UM	UM Pitot 29/Rel?	-	-	-	FC	-	-	-	160	-	-
1967-S107	2439522.85	1967 Feb 1 0829	Nike Apache	-	NASA 14.323CM	GCA Release 63 TMA?	-	-	-	FC	-	-	-	193	-	-
1967-S108	2439522.91	1967 Feb 1 0956	Nike Cajun	-	NASA 10.220GM	GSFC Grenade 140 PB	-	-	-	PBA	-	-	-	126	-	-
1967-S109	2439522.98	1967 Feb 1 1124	Nike Apache	-	NASA 14.314CM	GCA Release 64 TMA?	-	-	-	FC	-	-	-	138	-	-
1967-S110	2439523.00	1967 Feb 1 1158:00	Nike Apache	-	NASA 14.322UM	UM Pitot 30/Rel?	-	-	-	FC	-	-	-	153	-	-
1967-S111	2439523.10	1967 Feb 1 1426	Nike Cajun	-	NASA 10.221GM	GSFC Grenade 141 PB	-	-	-	PBA	-	-	-	126	-	-
1967-S114	2439525.24	1967 Feb 3 1752	Nike Cajun	-	NASA 10.222GM	GSFC Grenade 142 W	-	-	-	WI	-	-	-	112	-	-
1967-A151	2439536.50	1967 Feb 15	Nike Nike	-	Sandia 158-11	Parachute test	-	-	-	TTR	-	-	-	4	-	-
1967-S664	2439543.38	1967 Feb 21 2104	Nike Apache	-	-	SPEEDBALL II 98 SN44	-	-	-	WS	-	-	-	150?	-	-
1967-S132	2439549.66	1967 Feb 28 0347	Nike Tomahawk	12	Sandia 152-100	Aurora	-	-	-	FC	-	-	-	167	-	-
1967-S130	2439549.50	1967 Mar	Nike Hydac	?	STV	-	-	-	-	WS	-	-	-	100?	-	-
1967-S137	2439553.50	1967 Mar 3 2358	Nike Apache	-	Ferdinand 14	Ferdinand 14	-	-	-	AND	-	-	-	190	-	-
1967-S140	2439554.38	1967 Mar 4 2105	Nike Iroquois	-	CRL AF07.582	Sphere	-	-	-	EGL	-	-	-	196	-	-
1967-S142	2439555.63	1967 Mar 6 0305	Nike Iroquois	-	CRL AF07.583	Sphere	-	-	-	EGL	-	-	-	175	-	-
1967-S143	2439556.06	1967 Mar 6 1327	Nike Apache	-	NASA 14.161IA	ISRO 10.09 (Release)	TERLS-046	-	-	TERLS	-	-	-	178	-	-
1967-S147	2439558.71	1967 Mar 9 0507	Nike Tomahawk	-	NASA 18.24GE	Auroral electrons	-	-	-	FC	-	-	-	227	-	-
1967-S148	2439559.06	1967 Mar 9 1327	Nike Apache	-	NASA 14.162IA	ISRO 10.10	TERLS-047	-	-	TERLS	-	-	-	184	-	-
1967-S149	2439562.06	1967 Mar 12 1327	Nike Apache	-	NASA 14.163IA-II	ISRO 10.11	TERLS-048	-	-	TERLS	-	-	-	168	-	-
1967-S150	2439562.21	1967 Mar 12 1700	Nike Apache	-	NASA 14.206IA	ISRO 10.12	TERLS-049	-	-	TERLS	-	-	-	155	-	-
1967-S154	2439562.51	1967 Mar 13 0014	Nike Apache	-	NASA 14.267IA	ISRO 10.14	TERLS-050	-	-	TERLS	-	-	-	155	-	-
1967-S157	2439564.49	1967 Mar 14 2346:10	Nike Apache	-	Ferdinand 15	Ferdinand 15	-	-	-	AND	-	-	-	188	-	-
1967-S160	2439566.30	1967 Mar 16 1905	Nike Apache	-	NASA 14.256II	-	-	-	-	WI	-	-	-	141	-	-
1967-S170	2439577.27	1967 Mar 27 1835	Nike Tomahawk	-	NASA 18.28UE	UNH neutrons	-	-	-	CLBI	-	-	-	220?	-	-
1967-S628	2439578.19	1967 Mar 28 1633	Nike Hydac	-	-	STV SR-48	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1967-S179	2439580.30	1967 Mar 30 1909	Nike Tomahawk	-	NASA 18.12UI	GCA Ion Probe	-	-	-	WI	-	-	-	237	-	-
1967-S184	2439580.50	1967 Mar 31 0001	Nike Tomahawk	-	NASA 18.09GE	Ba Release	-	-	-	WI	-	-	-	321	-	-
1967-S185	2439580.63	1967 Mar 31 0303	Nike Apache	-	NASA 14.283CA	GCA Release 65 Teb	-	-	-	WI	-	-	-	176	-	-
1967-S187	2439581.22	1967 Mar 31 1719	Nike Cajun	-	NASA 10.208GM	GSFC Grenade 143 W	-	-	-	WI	-	-	-	115	-	-
1967-S191	2439584.51	1967 Apr 4 0010	Nike Cajun	-	NASA 10.226GM	GSFC Grenade 144 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S199	2439588.33	1967 Apr 7 1957:00	Nike Apache	-	NASA 14.328IE	DLR K-NA-1 Ba	-	-	-	ESR	N	-	-	231	-	-
1967-S200	2439589.34	1967 Apr 8 2003:00	Nike Apache	-	NASA 14.329IE	DLR K-NA-2 Ba	-	-	-	ESR	N	-	-	237	-	-
1967-S201	2439589.54	1967 Apr 9 0100:00	Nike Apache	-	NASA 14.330IE	DLR K-NA-3 Ba	-	-	-	ESR	N	-	-	242	-	-
1967-S203	2439591.34	1967 Apr 10 2014:00	Nike Apache	-	NASA 14.331IE	DLR K-NA-4 Ba	-	-	-	ESR	N	-	-	230	-	-
1967-S204	2439591.38	1967 Apr 10 2100	Nike Cajun	-	NASA 10.227GM	GSFC Grenade 145 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S205	2439592.22	1967 Apr 11 1715	Nike Cajun	-	NASA 10.223GM	GSFC Grenade 146 W	-	-	-	WI	-	-	-	126	-	-
1967-S206	2439592.35	1967 Apr 11 2021:00	Nike Apache	-	NASA 14.332IE	DLR K-NA-5	-	-	-	ESR	N	-	-	236	-	-
1967-S211	2439593.50	1967 Apr 13 0001	Nike Iroquois	-	CRL AF07.168	Mass spectrometer	CRL AA7.168	-	-	EGL	-	-	-	144	-	-
1967-S212	2439593.53	1967 Apr 13 0049	Nike Iroquois	-	CRL AF07.385	Mass spectrometer	-	-	-	EGL	-	-	-	148	-	-
1967-S213	2439593.54	1967 Apr 13 0056	Nike Iroquois	-	CRL AG07.622	Niro TMA E5	-	-	-	EGL	-	-	-	167	-	-
1967-S214	2439593.54	1967 Apr 13 0057	Nike Iroquois	-	CRL AG07.623	Niro TMA E6	-	-	-	CSB	-	-	-	169	-	-
1967-S216	2439593.81	1967 Apr 13 0722	Nike Cajun	-	CRL AF6.561	Ion trap	-	-	-	EGL	-	-	-	116	-	-
1967-S215	2439593.81	1967 Apr 13 0724	Nike Tomahawk	-	CRL AF08.647	Sphere/TMA	-	-	-	EGL	-	-	-	175	-	-
1967-S218	2439598.93	1967 Apr 18 1020	Nike Iroquois	-	CRL AF07.384	Mass spectrometer	-	-	-	EGL	-	-	-	135	-	-
1967-M07	2439598.93	1967 Apr 18 1025	Nike Iroquois	-	CRL AF07.624	Niro TMA E7/LangP	-	-	-	EGL	-	-	-	58	-	-
1967-A69	2439598.93	1967 Apr 18 1025	Nike Iroquois	-	CRL AF07.625	Niro TMA E8	-	-	-	CSB	-	-	-	20	-	-
1967-S219	2439598.97	1967 Apr 18 1121	Nike Iroquois	-	CRL AF07.386	Mass spectrometer	-	-	-	EGL	-	-	-	138	-	-
1967-S220	2439598.99	1967 Apr 18 1140	Nike Iroquois	-	CRL AF07.560	Sphere/Ion trap	-	-	-	EGL	-	-	-	169	-	-
1967-S221	2439599.34	1967 Apr 18 2008	Nike Cajun	-	NASA 10.228GM	GSFC Grenade 147 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S224	2439600.53	1967 Apr 20 0040	Nike Tomahawk	-	CRL AF08.650	Ba	-	-	-	EGL	-	-	-	260	-	-
1967-S226	2439601.23	1967 Apr 20 1732	Nike Cajun	-	NASA 10.224GM	GSFC Grenade 148 W	-	-	-	WI	-	-	-	107	-	-
1967-S81	2439605.77	1967 Apr 25 0630:00	Nike Tomahawk	-	MUMP-4	-	-	-	-	CC	-	-	-	287	-	-
1967-S82	2439606.29	1967 Apr 25 1900:00	Nike Tomahawk	-	MUMP-5	-	-	-	-	CC	-	-	-	334	-	-
1967-S237	2439608.55	1967 Apr 28 0112	Nike Tomahawk	-	CRL AF08.651	Ba	-	-	-	EGL	-	-	-	254	-	-
1967-S238	2439610.49	1967 Apr 29 2339	Nike Cajun	-	NASA 10.225GM	GSFC Grenade 149 W	-	-	-	WI	-	-	-	123	-	-
1967-S241	2439610.57	1967 Apr 30 0140	Nike Cajun	-	NASA 10.229GM	GSFC Grenade 150 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S633	2439613.24	1967 May 2 1745	Nike Apache	-	-	SPEEDBALL II 99 SN45	-	-	-	WS	-	-	-	150?	-	-
1967-S243	2439615.34	1967 May 4 2007	Nike Cajun	-	NASA 10.232GM	GSFC Grenade 151 W	-	-	-	WI	-	-	-	115	-	-
1967-S250	2439616.21	1967 May 5 1700	Nike Apache	-	NASA 14.268UI	Auroral	-	-	-	FC	-	-	-	136	-	-
1967-S253	2439619.81	1967 May 9 0720	Nike Cajun	-	NASA 10.230GM	GSFC Grenade 152 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S258	2439621.85	1967 May 11 0825	Nike Cajun	-	NASA 10.233GM	GSFC Grenade 153 W	-	-	-	WI	-	-	-	129	-	-
1967-M10	2439621.87	1967 May 11 0855	Nike Cajun	-	NASA 10.161GM	GSFC Ozone 2	-	-	-	WI	-	-	-	70	-	-
1967-S259	2439625.99	1967 May 15 1140	Nike Cajun	-	NASA 10.231GM	GSFC Grenade 154 PB	-	-	-	PBA	-	-	-	120?	-	-
1967-S634	2439628.12	1967 May 17 1500	Nike Apache	-	-	SPEEDBALL II 100SN46	-	-	-	WS	-	-	-	150?	-	-
1967-S263	2439628.76	1967 May 18 0616	Nike Tomahawk	12	Sandia 152-56	LRL BOX-10	-	-	-	KAU	-	-	-	172	-	-
1967-A83	2439630.50	1967 May 20	Nike Tomahawk	12	Sandia 152-97	LRL BOX-9	-	-	-	KAU	-	-	-	22	-	-
1967-S267	2439631.79	1967 May 21 0700	Nike Cajun	-	-	Sandia 154-100	-	-	-	KAU	-	-	-	100	-	-
1967-S240	2439635.06	1967 May 24 1321	Nike Hydac	-	STV SR-056	SRE-19	-	-	-	WS	LC33 L-361L	-	-	100?	-	-
1967-S635	2439635.22	1967 May 24 1710	Nike Apache	-	-	SPEEDBALL II 101SN47	-	-	-	WS	-	-	-	150?	-	-
1967-S654	2439640.50	1967 May 30	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S655	2439640.50	1967 May 30?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S656	2439640.50	1967 May 30?	Nike Cajun	-	-	AEC SKOL	-	-	-	KAU	-	-	-	100?	-	-
1967-S657	2439641.50	1967 May 31?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S658	2439641.50	1967 May 31?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-A89	2439642.04	1967 May 31 1300	Nike Apache	-	NASA 14.300UA	Pandora B?	-	-	-	WS	-	-	-	42	-	-
1967-S275	2439641.50	1967 Jun	Nike Hydac	?	STV	-	-	-	-	WS	-	-	-	100?	-	-
1967-S659	2439642.50	1967 Jun 1?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S660	2439642.50	1967 Jun 1?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S281	2439642.75	1967 Jun 1 0554	Nike Apache	-	-	Sandia 154-97	-	-	-	KAU	-	-	-	165	-	-
1967-S282	2439642.78	1967 Jun 1 0645	Nike Cajun	-	-	Sandia 154-99	-	-	-	KAU	-	-	-	100	-	-
1967-S283	2439642.84	1967 Jun 1 0815	Nike Apache	-	-	Sandia 154-92	-	-	-	KAU	-	-	-	160	-	-
1967-S284	2439642.92	1967 Jun 1 1000	Nike Apache	-	-	Sandia 154-95	-	-	-	KAU	-	-	-	160	-	-
1967-S285	2439642.94	1967 Jun 1 1030	Nike Cajun	-	-	Sandia 154-101	-	-	-	KAU	-	-	-	100	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S286	2439643.02	1967 Jun 1 1225	Nike Apache	-	-	Sandia 154-94	-	-	-	KAU	-	-	-	160	-	-
1967-S661	2439643.50	1967 Jun 2?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S662	2439643.50	1967 Jun 2?	Nike Apache	-	-	AEC SKOL	-	-	-	KAU	-	-	-	150?	-	-
1967-S663	2439643.50	1967 Jun 2?	Nike Cajun	-	-	AEC SKOL	-	-	-	KAU	-	-	-	100?	-	-
1967-S290	2439643.90	1967 Jun 2 0934	Nike Apache	?	-	Sandia 154-93	-	-	-	KAU	-	-	-	160	-	-
1967-S291	2439644.74	1967 Jun 3 0547	Nike Apache	-	-	Sandia 154-98	-	-	-	KAU	-	-	-	170	-	-
1967-S294	2439648.43	1967 Jun 6 2219	Nike Tomahawk	-	NASA 18.29UE	UNH neutron flux	-	-	-	FC	-	-	-	369	-	-
1967-S295	2439649.06	1967 Jun 7 1320	Nike Iroquois	-	CRL AG07.272	Meteor dust	-	-	-	EGL	-	-	-	154	-	-
1967-S301	2439655.46	1967 Jun 13 2308	Nike Apache	-	NASA 14.297CE	OGO-E AS&E detector	-	-	-	WI	-	-	-	179	-	-
1967-S320	2439665.85	1967 Jun 24 0826	Nike Cajun	-	NASA 10.238GM	GSFC Grenade 155 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S321	2439666.36	1967 Jun 24 2035	Nike Cajun	-	NASA 10.237GM	GSFC Grenade 156 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S322	2439666.86	1967 Jun 25 0834	Nike Cajun	-	NASA 10.239GM	GSFC Grenade 157 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S327	2439677.40	1967 Jul 5 2133	Nike Apache	-	BMTS	SPEEDBALL II 102SN48	-	-	-	WS	-	-	-	120	-	-
1967-S329	2439679.12	1967 Jul 7 1453	Nike Apache	-	STV	STV SR-057	-	-	-	WS	-	-	-	100?	-	-
1967-S355	2439694.54	1967 Jul 23 0053	Nike Apache	-	NASA 14.337CM	GCA Release 66 TMA	-	-	-	WI	-	-	-	204	-	-
1967-S328	2439698.17	1967 Jul 26 1610	Nike Apache	-	BMTS	SPEEDBALL II 103SN51	-	-	-	WS	-	-	-	120	-	-
1967-S636	2439698.25	1967 Jul 26 1800	Nike Apache	-	BMTS	SPEEDBALL II 104SN50	-	-	-	WS	-	-	-	150?	-	-
1967-S360	2439701.52	1967 Jul 30 0030	Nike Cajun	-	OB6.03C?	-	-	-	-	EGL	-	-	-	100?	-	-
1967-S665	2439704.31	1967 Aug 1 1925	Nike Apache	-	BMTS	SPEEDBALL II 105SN49	-	-	-	WS	-	-	-	150?	-	-
1967-S637	2439705.36	1967 Aug 2 2034	Nike Apache	-	BMTS	SPEEDBALL II 106SN42	-	-	-	WS	-	-	-	5?	-	-
1967-S366	2439705.97	1967 Aug 3 1110:01	Nike Apache	-	NASA 14.97UM	UM Pitot 31	-	-	-	PBA	-	-	-	155	-	-
1967-S369	2439707.58	1967 Aug 5 0159	Nike Apache	-	NASA 14.343GT-UA	Recovery test	-	-	-	WS	-	-	-	150	-	-
1967-S370	2439707.91	1967 Aug 5 0956:00	Nike Apache	-	NASA 14.290UM	UM Pitot 32	-	-	-	PBA	-	-	-	150	-	-
1967-S378	2439711.50	1967 Aug 8 2356	Nike Apache	-	NASA 14.273UI	SpE ionosphere	-	-	-	WI	-	-	-	141	-	-
1967-S379	2439711.61	1967 Aug 9 0243	Nike Apache	-	NASA 14.338CM	GCA Release 67 TMA	-	-	-	WI	-	-	-	214	-	-
1967-S380	2439711.83	1967 Aug 9 0758	Nike Apache	-	NASA 14.340CM	GCA Release 68 TMA	-	-	-	WI	-	-	-	211	-	-
1967-S381	2439711.87	1967 Aug 9 0847	Nike Apache	-	NASA 14.339CM	GCA Release 69 TMA	-	-	-	WI	-	-	-	204	-	-
1967-S382	2439711.87	1967 Aug 9 0847	Nike Apache	-	NASA 14.342GM	GCA Release 70 TMA	-	-	-	WI	-	-	-	158	-	-
1967-S383	2439711.89	1967 Aug 9 0928	Nike Apache	-	NASA 14.341CM	GCA Release 71 Na	-	-	-	WI	-	-	-	199	-	-
1967-S638	2439712.34	1967 Aug 9 2006	Nike Apache	-	BMTS	SPEEDBALL II 107SN43	-	-	-	WS	-	-	-	150?	-	-
1967-A108	2439723.85	1967 Aug 21 0820	Nike Cajun	-	NASA 10.240GM	GSFC Grenade 158 N	-	-	-	CLBI	-	-	-	10?	-	-
1967-S639	2439725.32	1967 Aug 22 1937	Nike Apache	-	BMTS	SPEEDBALL II 108SN52	-	-	-	WS	-	-	-	150?	-	-
1967-S361	2439727.82	1967 Aug 25 0735	Nike Hydac	-	STV SR-058	G-01	-	-	-	WS	-	-	-	100?	-	-
1967-S397	2439728.77	1967 Aug 26 0635	Nike Iroquois	-	CRL AF07.328	Density	-	-	-	EGL	-	-	-	177	-	-
1967-S398	2439728.99	1967 Aug 26 1139	Nike Cajun	-	NASA 10.241GM	GSFC Grenade 159 N	-	-	-	CLBI	-	-	-	92	-	-
1967-S399	2439729.49	1967 Aug 26 2339	Nike Cajun	-	NASA 10.242GM	GSFC Grenade 160 N	-	-	-	CLBI	-	-	-	95	-	-
1967-S400	2439730.52	1967 Aug 28 0030	Nike Cajun	-	NASA 10.243GM	GSFC Grenade 161 N	-	-	-	CLBI	-	-	-	92	-	-
1967-S407	2439733.23	1967 Aug 30 1732	Nike Apache	-	-	ION 1/67	-	-	-	CELPA	-	-	-	225	-	-
1967-S413	2439734.42	1967 Aug 31 2206:00	Nike Tomahawk	-	NASA 18.43GE	Ba clouds	-	-	-	AND	-	-	-	321	-	-
1967-S414	2439734.45	1967 Aug 31 2247:52	Nike Tomahawk	-	NASA 18.46GE	Double probe	-	-	-	AND	-	-	-	228	-	-
1967-S415	2439736.23	1967 Sep 2 1737	Nike Apache	-	-	ION 2/67	-	-	-	CELPA	-	-	-	232	-	-
1967-S416	2439736.35	1967 Sep 2 2031:00	Nike Tomahawk	-	NASA 18.44GE	4 Ba clouds	-	-	-	AND	-	-	-	321?	-	-
1967-S417	2439736.36	1967 Sep 2 2042:35	Nike Tomahawk	-	NASA 18.47GE	E fields	-	-	-	AND	-	-	-	233	-	-
1967-S421	2439738.75	1967 Sep 5 0600	Nike Iroquois	-	CRL AG07.176	Density	-	-	-	EGL	-	-	-	101	-	-
1967-S425	2439741.36	1967 Sep 7 2034:57	Nike Tomahawk	12	Sandia 152-88	LRL BOX-8a	-	-	-	TTR	-	-	-	187	-	-
1967-S424	2439741.36	1967 Sep 7 2034	Nike Apache	-	NASA 14.308UI	UIUC Arecibo 1	-	-	-	TORT	VB	-	-	200?	-	-
1967-S429	2439741.50	1967 Sep 8 0007	Nike Apache	-	NASA 14.305UI	UIUC Arecibo 2	-	-	-	TORT	VB	-	-	200?	-	-
1967-A116	2439741.92	1967 Sep 8 1003	Nike Apache	-	NASA 14.309UI	UIUC Arecibo 3	-	-	-	TORT	VB	-	-	20?	-	-
1967-S435	2439746.37	1967 Sep 12 2057:00	Nike Tomahawk	-	NASA 18.45GE	Ba clouds, E field	-	-	-	AND	-	-	-	321?	-	-
1967-S436	2439746.37	1967 Sep 12 2059:49	Nike Tomahawk	-	NASA 18.48GE	E fields	-	-	-	AND	-	-	-	227?	-	-
1967-S432	2439746.52	1967 Sep 13 0026	Nike Apache	-	Speedball SN44	SPEEDBALL II 109	-	-	-	WS	-	-	-	150?	-	-
1967-S640	2439748.56	1967 Sep 15 0130	Nike Javelin	-	MD-67-9.5-2	-	-	-	-	WS	-	-	-	150?	-	-
1967-S409	2439748.78	1967 Sep 15 0641	Nike Hydac	-	STV SR-060	SRG-02	-	-	-	WS	-	-	-	100?	-	-
1967-A118	2439752.30	1967 Sep 18 1905	Nike Apache	-	NASA 14.334UM	UM Pitot 33	-	-	-	WI	-	-	-	20?	-	-
1967-S439	2439752.30	1967 Sep 18 1910	Nike Tomahawk	-	NASA 18.50GA	UM Thermosphere 7	-	-	-	WI	-	-	-	286	-	-
1967-S440	2439753.29	1967 Sep 19 1853	Nike Apache	-	Round 110	Speedball II SN45	-	-	-	WS	-	-	-	150?	-	-
1967-S441	2439754.21	1967 Sep 20 1700	Nike Apache	-	Round 111	Speedball II SN46	-	-	-	WS	-	-	-	150?	-	-
1967-S443	2439754.50	1967 Sep 21	Nike Tomahawk	9	Sandia 152-101	LASL Solar	-	-	-	KAU	-	-	-	335	-	-
1967-S444	2439755.17	1967 Sep 21 1600	Nike Hydac	-	STV SR-059	-	-	-	-	WS	LC33 L-314	-	-	150?	-	-
1967-S448	2439756.35	1967 Sep 22 2030	Nike Apache	-	Round 112	Speedball II SN37	-	-	-	WS	-	-	-	150?	-	-
1967-S449	2439759.25	1967 Sep 25 1758	Nike Apache	-	Round 113	Speedball II SN48	-	-	-	WS	-	-	-	150?	-	-
1967-S450	2439759.42	1967 Sep 25 2200	Nike Apache	-	Round 114	Speedball II SN49	-	-	-	WS	-	-	-	150?	-	-
1967-S452	2439760.19	1967 Sep 26 1630	Nike Apache	-	Round 115	Speedball II SN50	-	-	-	WS	-	-	-	150?	-	-
1967-S453	2439760.35	1967 Sep 26 2030	Nike Apache	-	Round 116	Speedball II SN51	-	-	-	WS	-	-	-	150?	-	-
1967-S457	2439762.51	1967 Sep 29 0015	Nike Tomahawk	12	Sandia 152-87	LRL BOX-12	-	-	-	JI	HAD23	-	-	168	-	-
1967-S464	2439765.81	1967 Oct 2 0722	Nike Tomahawk	12	Sandia 152-106	LRL BOX-11	-	-	-	JI	-	-	-	168	-	-
1967-S465	2439766.33	1967 Oct 2 2000	Nike Cajun	-	CRL AD6.842	Antenna Breakdown	-	-	-	WI	-	-	-	108	-	-
1967-S466	2439766.50	1967 Oct 3	Nike Tomahawk	9	Sandia 152-103	LASL Solar	-	-	-	KAU	-	-	-	309	-	-
1967-S470	2439767.50	1967 Oct 4	Nike Tomahawk	9	Sandia 152-82	Sampler	-	-	-	KAU	-	-	-	301	-	-
1967-S471	2439767.51	1967 Oct 4 0020	Nike Tomahawk	-	CRL AH08.645	Ba clouds	-	-	-	WI	-	-	-	251	-	-
1967-S474	2439768.51	1967 Oct 5 0018	Nike Tomahawk	-	CRL AH08.646	Ba	-	-	-	WI	-	-	-	249	-	-
1967-A125	2439769.28	1967 Oct 5 1844	Nike	-	Smoke 204	-	-	-	-	WI	-	-	-	5	-	-
1967-A126	2439769.33	1967 Oct 5 1959	Nike	-	Smoke 205	-	-	-	-	WI	-	-	-	6	-	-
1967-S484	2439775.70	1967 Oct 12 0449	Nike Hydac	-	STV SR-061	-	-	-	-	WS	LC33 L-361	-	-	150?	-	-
1967-S488	2439775.76	1967 Oct 12 0614	Nike Hydac	-	STV SR-062	-	-	-	-	WS	LC33 L-361	-	-	150?	-	-
1967-S493	2439777.97	1967 Oct 14 1120	Nike Cajun	-	NASA 10.248GM	GSFC Grenade 162 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S494	2439778.97	1967 Oct 15 1115	Nike Cajun	-	NASA 10.244GM	GSFC Grenade 163 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S495	2439779.47	1967 Oct 15 2315	Nike Cajun	-	NASA 10.245GM	GSFC Grenade 164 N	-	-	-	CLBI	-	-	-	100?	-	-
1967-S501	2439787.17	1967 Oct 23 1604:40	Nike Apache	-	K-NA-7	DLR K-NA-7 EXP-32?	-	-	-	ESR	N	-	-	235	-	-
1967-S502	2439788.22	1967 Oct 24 1714	Nike Iroquois	-	CRL AG07.637	Arecibo calibration	-	-	-	TORT	VB	-	-	180	-	-
1967-S503	2439788.46	1967 Oct 24 2300	Nike Iroquois	-	CRL AG07.638	Arecibo cal	-	-	-	TORT	VB	-	-	180	-	-
1967-A130	2439790.21	1967 Oct 26 1709	Nike Iroquois	-	CRL AG07.639	Arecibo cal	-	-	-	TORT	VB	-	-	26	-	-
1967-S507	2439791.22	1967 Oct 27 1714	Nike Iroquois	-	CRL AG07.640	Arecibo cal	-	-	-	TORT	VB	-	-	180	-	-
1967-S508	2439791.89	1967 Oct 28 0915	Nike Iroquois	-	CRL AG07.641	Arecibo cal	-	-	-	TORT	VB	-	-	179	-	-
1967-S529	2439803.45	1967 Nov 8 2241	Nike Javelin	-	MD-67-9.5-3	-	-	-	-	WS	-	-	-	150?	-	-
1967-S538	2439811.26	1967 Nov 16 1814	Nike Apache	-	NASA 14.298UI	Electron probes	-	-	-	WI	-	-	-	167	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A152	2439811.50	1967 Nov 17	Nike Nike	-	Sandia 158-12	Parachute test	-	-	-	TTR	-	-	-	4	-	-
1967-S541	2439813.92	1967 Nov 19 1008	Nike Iroquois	-	CRL AG07.314	Recovery test	-	-	-	CLBI	-	-	-	119	-	-
1967-S544	2439816.92	1967 Nov 22 1007	Nike Iroquois	-	CRL AG07.319	Recovery test	-	-	-	CLBI	-	-	-	119	-	-
1967-S545	2439817.74	1967 Nov 23 0539	Nike Tomahawk	-	NASA 18.34UE	Auroral particles	-	-	-	FC	-	-	-	164	-	-
1967-S552	2439823.55	1967 Nov 29 0106	Nike Apache	-	NASA 14.250IM	Rehbar 14 (Gren.)	-	-	-	SOM	-	-	-	175	-	-
1967-S553	2439824.45	1967 Nov 29 2251	Nike Iroquois	-	CRL AF07.658	Smoke	-	-	-	EGL	-	-	-	121	-	-
1967-S554	2439824.45	1967 Nov 29 2251	Nike Iroquois	-	CRL AF07.661	Smoke	-	-	-	CSB	-	-	-	122	-	-
1967-S558	2439828.45	1967 Dec 3 2253	Nike Iroquois	-	CRL AF07.657	Smoke	-	-	-	EGL	-	-	-	119	-	-
1967-S559	2439828.45	1967 Dec 3 2253	Nike Iroquois	-	CRL AF07.662	Smoke	-	-	-	CSB	-	-	-	124	-	-
1967-S562	2439829.43	1967 Dec 4 2220	Nike Iroquois	-	CRL AF07.880	D/E ions	-	-	-	FC	-	-	-	148	-	-
1967-S563	2439829.45	1967 Dec 4 2244	Nike Iroquois	-	CRL AF07.387	D/E ions	-	-	-	FC	-	-	-	122	-	-
1967-S564	2439829.64	1967 Dec 5 0324	Nike Tomahawk	-	NASA 18.66UA	Auroral profile	-	-	-	FC	-	-	-	270?	-	-
1967-S567	2439830.36	1967 Dec 5 2034:50	Nike Apache	-	NASA 14.288IE	DLR K-NA-6	-	-	-	ESR	N	-	-	206	-	-
1967-S571	2439831.27	1967 Dec 6 1825	Nike Iroquois	-	CRL AF07.388	D/E ions	-	-	-	FC	-	-	-	132	-	-
1967-S577	2439836.41	1967 Dec 11 2156	Nike Hydac	-	STV SR-069	-	-	-	-	WS	LC33 L-361	-	-	150?	-	-
1967-S578	2439837.41	1967 Dec 12 2148	Nike Apache	-	NASA 14.347UA	NO profile	-	-	-	WI	-	-	-	94	-	-
1967-S579	2439837.42	1967 Dec 12 2159	Nike Cajun	-	NASA 10.249GM	GSFC Grenade 165 W	-	-	-	WI	-	-	-	110	-	-
1967-S580	2439837.86	1967 Dec 13 0843	Nike Iroquois	-	CRL AG07.627	Niro TMA E9	-	-	-	EGL	-	-	-	187	-	-
1967-S581	2439837.89	1967 Dec 13 0923	Nike Iroquois	-	CRL AG07.630	Niro TMA E10/Grenad	-	-	-	EGL	-	-	-	164	-	-
1967-S743	2439837.86	1967 Dec 13 0840	Nike Iroquois	?	APGC-943	Sphere/TMA	-	-	-	EGL	-	-	-	200?	-	-
1967-S583	2439838.90	1967 Dec 14 0937	Nike Tomahawk	-	CRL AH08.665	Release/Grenade	-	-	-	EGL	-	-	-	106	-	-
1967-S584	2439838.92	1967 Dec 14 0958	Nike Iroquois	-	CRL AG07.631	-	-	-	-	EGL	-	-	-	161	-	-
1967-S585	2439841.46	1967 Dec 16 2258	Nike Iroquois	-	CRL AG07.663	Smoke	-	-	-	CSB	-	-	-	127	-	-
1967-S586	2439841.46	1967 Dec 16 2258	Nike Iroquois	-	CRL AG07.659	Smoke	-	-	-	EGL	-	-	-	127	-	-
1967-S588	2439843.04	1967 Dec 18 1300	Nike Cajun	-	NASA 10.246GM	GSFC Grenade 166 N	-	-	-	CLBI	-	-	-	95	-	-
1967-S589	2439843.54	1967 Dec 19 0100	Nike Cajun	-	NASA 10.247GM	GSFC Grenade 167 N	-	-	-	CLBI	-	-	-	96	-	-
1967-S590	2439844.05	1967 Dec 19 1310	Nike Cajun	-	NASA 10.250GM	GSFC Grenade 168 N	-	-	-	CLBI	-	-	-	92	-	-
1968-S84	2439872.30	1968 Jan 16 1914	Nike Cajun	-	NASA 10.273GI	-	-	-	-	WI	-	-	-	137	-	-
1968-S85	2439872.31	1968 Jan 16 1929	Nike Cajun	-	NASA 10.275GI	-	-	-	-	WI	-	-	-	141	-	-
1968-S86	2439873.46	1968 Jan 17 2308	Nike Iroquois	-	CRL AG07.634	Niro TMA 1	-	-	-	FC	-	-	-	193	-	-
1968-S89	2439875.47	1968 Jan 19 2310	Nike Iroquois	-	CRL AG07.633	Niro TMA 2	-	-	-	FC	-	-	-	191	-	-
1968-S91	2439877.69	1968 Jan 22 0430	Nike Tomahawk	-	NASA 18.62GM	Airglow	-	-	-	WI	-	-	-	296	-	-
1968-S92	2439878.01	1968 Jan 22 1215	Nike Tomahawk	-	CRL AG08.648	NO/TMA	-	-	-	FC	-	-	-	169	-	-
1968-S93	2439878.06	1968 Jan 22 1320	Nike Iroquois	-	CRL AG07.635	Niro TMA 3/O2	-	-	-	FC	-	-	-	188	-	-
1968-S96	2439878.73	1968 Jan 23 0533	Nike Tomahawk	-	NASA 18.13UE	Ionos currents	-	-	-	FC	-	-	-	270?	-	-
1968-A56	2439887.50	1968 Feb 1	Nike Cajun	-	NASA 10.255GM	GSFC Grenade 169 PB	-	-	-	PBA	-	-	-	0?	-	-
1968-S107	2439888.29	1968 Feb 1 1853	Nike Cajun	-	NASA 10.264GM	GSFC Grenade 170/UM Sph	-	-	-	WI	-	-	-	104	-	-
1968-S108	2439888.29	1968 Feb 1 1900	Nike Cajun	-	NASA 10.259GM	GSFC Grenade 171 C	-	-	-	FC	-	-	-	126	-	-
1968-S109	2439888.31	1968 Feb 1 1930	Nike Cajun	-	NASA 10.260GM	GSFC Grenade 172 C	-	-	-	FC	-	-	-	127	-	-
1968-S110	2439888.35	1968 Feb 1 2030	Nike Cajun	-	NASA 10.261GM	GSFC Grenade 173 C	-	-	-	FC	-	-	-	137	-	-
1968-S111	2439888.39	1968 Feb 1 2115	Nike Cajun	-	NASA 10.262GM	GSFC Grenade 174 C	-	-	-	FC	-	-	-	130	-	-
1968-S114	2439889.50	1968 Feb 2 2357	Nike Apache	-	Round 119	Speedball II S/N 53	-	-	-	WS	-	-	-	200?	-	-
1968-S117	2439889.06	1968 Feb 2 1326	Nike Apache	-	NASA 14.259IA	ISRO 10.13	TERLS-064	-	-	TERLS	-	-	-	191	-	-
1968-S122	2439892.43	1968 Feb 5 2222	Nike Cajun	-	NASA 10.263GM	GSFC Grenade 175 C	-	-	-	FC	-	-	-	127	-	-
1968-S123	2439892.71	1968 Feb 6 0507	Nike Tomahawk	-	NASA 18.38UE	UNH Aurora/Fields	-	-	-	FC	-	-	-	270?	-	-
1968-S124	2439892.81	1968 Feb 6 0721	Nike Tomahawk	12	Sandia 152-105	Aurora	-	-	-	FC	-	-	-	160	-	-
1968-M03	2439894.17	1968 Feb 7 1600	Nike Cajun	-	NASA 10.234GM	Ozone/Parachute test	-	-	-	WS	-	-	-	67	-	-
1968-S127	2439895.58	1968 Feb 9 0154	Nike Tomahawk	12	Sandia 152-104	Aurora	-	-	-	FC	-	-	-	150?	-	-
1968-S140	2439908.47	1968 Feb 21 2317	Nike Apache	-	NASA 14.284CA	GCA Release 72 Teb	-	-	-	WI	-	-	-	150	-	-
1968-S141	2439908.66	1968 Feb 22 0345	Nike Apache	-	NASA 14.276GE	Auroral fluxes	-	-	-	FC	-	-	-	200?	-	-
1968-S142	2439908.71	1968 Feb 22 0509:00	Nike Apache	-	NASA 14.364CM	GCA Ionos-TMA 14	-	-	-	WI	-	-	-	156	-	-
1968-A62	2439908.72	1968 Feb 22 0512	Nike Tomahawk	-	NASA 18.61GE	Aurora	-	-	-	FC	-	-	-	10?	-	-
1968-S143	2439908.77	1968 Feb 22 0630:00	Nike Apache	-	NASA 14.365CM	GCA Ionos-TMA 15	-	-	-	WI	-	-	-	175	-	-
1968-S144	2439908.83	1968 Feb 22 0800:00	Nike Apache	-	NASA 14.366CM	GCA Ionos-TMA 16	-	-	-	WI	-	-	-	181	-	-
1968-S145	2439908.90	1968 Feb 22 0930:00	Nike Apache	-	NASA 14.367CM	GCA Ionos-TMA 17	-	-	-	WI	-	-	-	190	-	-
1968-S146	2439908.96	1968 Feb 22 1102:00	Nike Apache	-	NASA 14.208CA	GCA Ionos 14/Rel Na	-	-	-	WI	-	-	-	168	-	-
1968-S149	2439909.72	1968 Feb 23 0510	Nike Tomahawk	-	NASA 18.35UE	Aurora	-	-	-	FC	-	-	-	293	-	-
1968-S150	2439909.79	1968 Feb 23 0653	Nike Tomahawk	-	NASA 18.67UA	-	-	-	-	FC	-	-	-	270?	-	-
1968-S152	2439914.25	1968 Feb 27 1754	Nike Apache	-	STV 070 SRN-02	-	-	-	-	WS	-	-	-	200?	-	-
1968-S153	2439913.55	1968 Feb 27 0110	Nike Apache	-	NASA 14.350CA	GCA Release 73	-	-	-	WI	-	-	-	154	-	-
1968-S156	2439914.75	1968 Feb 28 0601	Nike Tomahawk	-	NASA 18.68UA	-	-	-	-	FC	-	-	-	295	-	-
1968-S164	2439917.80	1968 Mar 2 0719	Nike Tomahawk	-	NASA 18.37UE	Auroral P/F	-	-	-	FC	-	-	-	260	-	-
1968-S177	2439930.80	1968 Mar 15 0710	Nike Iroquois	-	CRL AE07.290	Auroral P/F	-	-	-	FC	-	-	-	160	-	-
1968-S179	2439931.30	1968 Mar 15 1911	Nike Tomahawk	-	NASA 18.10UI	-	-	-	-	WI	-	-	-	290	-	-
1968-S183	2439932.79	1968 Mar 17 0659:01	Nike Apache	-	NASA 14.344UM	UM Pitot 34	-	-	-	TORT	VB	-	-	148	-	-
1968-S184	2439932.81	1968 Mar 17 0730:01	Nike Tomahawk	-	NASA 18.53GA	UM Thermosphere 8	-	-	-	TORT	VB	-	-	295	-	-
1968-S182	2439932.89	1968 Mar 17 0928:00	Nike Tomahawk	-	NASA 18.49GA	UM Thermosphere 9	-	-	-	TORT	VB	-	-	311	-	-
1968-S185	2439933.28	1968 Mar 17 1845:01	Nike Apache	-	NASA 14.345UM	UM Pitot 35	-	-	-	TORT	VB	-	-	136	-	-
1968-S186	2439933.30	1968 Mar 17 1918	Nike Tomahawk	-	NASA 18.52GA	UM Thermosphere 10	-	-	-	TORT	VB	-	-	270?	-	-
1968-S187	2439933.79	1968 Mar 18 0700:05	Nike Apache	-	NASA 14.333UM	UM Pitot 36	-	-	-	TORT	VB	-	-	148	-	-
1968-S188	2439934.24	1968 Mar 18 1751	Nike Tomahawk	-	NASA 18.36UE	Auroral P/F	-	-	-	FC	-	-	-	270?	-	-
1968-S195	2439936.27	1968 Mar 20 1823	Nike Apache	-	K-NA-8	MPE Ba EXP-34	-	-	-	ESR	N	-	-	216	-	-
1968-S201	2439936.75	1968 Mar 21 0601:33	Nike Tomahawk	-	NASA 18.63UE	Auroral emissions	-	-	-	FC	-	-	-	242	-	-
1968-S204	2439939.27	1968 Mar 23 1835	Nike Apache	-	K-NA-9	DLR K-NA-9	-	-	-	ESR	N	-	-	200	-	-
1968-S207	2439940.03	1968 Mar 24 1245	Nike Cajun	-	NASA 10.270GM	GSFC Grenade 176 N	-	-	-	CLBI	-	-	-	120	-	-
1968-S210	2439940.75	1968 Mar 25 0600	Nike Cajun	-	NASA 10.271GM	GSFC Grenade 177 N	-	-	-	CLBI	-	-	-	120	-	-
1968-S211	2439941.04	1968 Mar 25 1258	Nike Cajun	-	NASA 10.272GM	GSFC Grenade 178 N	-	-	-	CLBI	-	-	-	120	-	-
1968-S223	2439943.56	1968 Mar 28 0132	Nike Apache	-	NASA 14.375IE-II	ISRO 10.15	TERLS-071	-	-	TERLS	-	-	-	211	-	-
1968-S224	2439944.19	1968 Mar 28 1631	Nike Apache	-	NASA 14.346GR	-	-	-	-	WI	-	-	-	161	-	-
1968-S232	2439946.06	1968 Mar 30 1325	Nike Apache	-	NASA 14.376IE-II	ISRO 10.16	TERLS-072	-	-	TERLS	-	-	-	211	-	-
1968-S247	2439946.50	1968 Mar 31 0007	Nike Apache	-	NASA 14.378IE	ISRO 10.18	TERLS-073	-	-	TERLS	-	-	-	211	-	-
1968-S248	2439947.01	1968 Mar 31 1215	Nike Apache	-	NASA 14.377IE-II	ISRO 10.17	TERLS-074	-	-	TERLS	-	-	-	169	-	-
1968-S236	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1968-S237	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1968-S238	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1968-S239	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S240	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1968-S241	2439946.50	1968 Apr	Nike Apache	?	BMTS	-	-	-	-	WS	-	-	-	100?	-	-
1968-S253	2439950.67	1968 Apr 4 0359	Nike Apache	-	NASA 14.277GE	Auroral	-	-	-	FC	-	-	-	129	-	-
1968-S254	2439950.81	1968 Apr 4 0732	Nike Tomahawk	-	NASA 18.60GE	Auroral	-	-	-	FC	-	-	-	270?	-	-
1968-S255	2439952.55	1968 Apr 6 0115:46	Nike Apache	?	K-NA-10	DLR K-NA-10	-	-	-	ESR	N	-	-	1?	-	-
1968-S242	2439956.50	1968 Apr 10	Nike Apache	?	BMTS	-	-	-	-	FTB	-	-	-	100?	-	-
1968-S272	2439969.16	1968 Apr 22 1553	Nike Apache	-	NASA 14.241IG	ISRO 40.01	TERLS-076	-	-	TERLS	-	-	-	159	-	-
1968-S275	2439969.70	1968 Apr 23 0453	Nike Tomahawk	-	NASA 18.41UE	-	-	-	-	FC	-	-	-	268	-	-
1968-A75	2439969.75	1968 Apr 23 0554	Nike Apache	-	NASA 14.356UM	UM Pitot 37	-	-	-	FC	-	-	-	10	-	-
1968-S280	2439971.16	1968 Apr 24 1544	Nike Apache	-	NASA 14.260IG	ISRO 40.02	TERLS-078	-	-	TERLS	-	-	-	159	-	-
1968-S282	2439971.75	1968 Apr 25 0601	Nike Tomahawk	-	NASA 18.33CE	p/e flux	-	-	-	FC	-	-	-	120	-	-
1968-S281	2439972.21	1968 Apr 25 1706	Nike Apache	-	Round 121	Speedball II S/N 54	-	-	-	WS	-	-	-	200?	-	-
1968-S283	2439971.77	1968 Apr 25 0623	Nike Tomahawk	-	NASA 18.42UE	-	-	-	-	FC	-	-	-	262	-	-
1968-S243	2439973.50	1968 Apr 27	Nike Apache	?	BMTS	-	-	-	-	WS	LC33	-	-	100?	-	-
1968-S298	2439976.83	1968 Apr 30 0749	Nike Tomahawk	-	NASA 18.40UE	-	-	-	-	FC	-	-	-	109	-	-
1968-S299	2439978.35	1968 May 1 2025	Nike Iroquois	-	CRL AH07.177	Sphere	-	-	-	EGL	-	-	-	217	-	-
1968-S300	2439978.73	1968 May 2 0525	Nike Iroquois	-	CRL AH07.178	Sphere	-	-	-	EGL	-	-	-	216	-	-
1968-S301	2439978.75	1968 May 2 0600	Nike Iroquois	-	CRL AE07.325	Elec backscatter	-	-	-	EGL	-	-	-	212	-	-
1968-S302	2439978.80	1968 May 2 0715	Nike Iroquois	-	CRL AG07.644	Release	-	-	-	TORT	VB	-	-	218	-	-
1968-S304	2439979.72	1968 May 3 0511	Nike Tomahawk	-	NASA 18.39UE	-	-	-	-	FC	-	-	-	258	-	-
1968-S307	2439983.79	1968 May 7 0700	Nike Iroquois	-	CRL AG07.643	Release	-	-	-	TORT	VB	-	-	142	-	-
1968-S308	2439985.18	1968 May 8 1625	Nike Apache	-	Round 122	Speedball II S/N 55	-	-	-	WS	-	-	-	200?	-	-
1968-S309	2439985.76	1968 May 9 0615	Nike Tomahawk	12	Sandia 152-114	LRL BOX-14	-	-	-	KAU	-	-	-	178	-	-
1968-S314	2439988.88	1968 May 12 0906	Nike Tomahawk	-	CRL AH08.670	Release	-	-	-	TORT	VB	-	-	198	-	-
1968-S316	2439989.88	1968 May 13 0906	Nike Tomahawk	-	CRL AH08.666	Ba release	-	-	-	TORT	VB	-	-	198	-	-
1968-S320	2439991.78	1968 May 15 0638:00	Nike Tomahawk	12	Sandia 152-111	LRL BOX-8b	-	-	-	KAU	LC14	-	-	162	-	-
1968-S324	2439993.83	1968 May 17 0800	Nike Cajun	-	Sandia 154-106	AFCRL Instr. Sphere	-	-	-	KAU	-	-	-	110	-	-
1968-S327	2439993.88	1968 May 17 0900	Nike Iroquois	-	CRL AH07.571	Sphere	-	-	-	KAU	-	-	-	202	-	-
1968-S325	2439993.89	1968 May 17 0915	Nike Cajun	-	Sandia 154-110	Falling sphere	-	-	-	KAU	-	-	-	144	-	-
1968-S328	2439994.52	1968 May 18 0030	Nike Cajun	-	Sandia 154-111	Falling sphere	-	-	-	KAU	-	-	-	152	-	-
1968-S329	2439994.56	1968 May 18 0133	Nike Tomahawk	-	Sandia 152-112	Ion gages	-	-	-	KAU	-	-	-	300?	-	-
1968-S331	2439995.76	1968 May 19 0616	Nike Tomahawk	12	Sandia 152-108	LRL ACS-1	-	-	-	KAU	-	-	-	147	-	-
1968-S342	2440000.38	1968 May 23 2100	Nike Iroquois	-	CRL AH07.572	Sphere	-	-	-	KAU	-	-	-	201	-	-
1968-S343	2440000.29	1968 May 23 1900	Nike Cajun	-	Sandia 154-102	Falling sphere	-	-	-	KAU	-	-	-	110	-	-
1968-S344	2440000.33	1968 May 23 2000	Nike Cajun	-	Sandia 154-103	AFCRL Instr. sphere	-	-	-	KAU	-	-	-	110	-	-
1968-S345	2440000.38	1968 May 23 2100	Nike Apache	-	Sandia 154-104	Pressure probe	-	-	-	KAU	-	-	-	100?	-	-
1968-S346	2440000.51	1968 May 24 0010	Nike Cajun	-	Sandia 154-105	Falling sphere	-	-	-	KAU	-	-	-	110	-	-
1968-S347	2440000.51	1968 May 24 0015	Nike Tomahawk	-	Sandia 154-113	Ion gages	-	-	-	KAU	-	-	-	300?	-	-
1968-S348	2440000.61	1968 May 24 0245	Nike Tomahawk	-	Sandia 152-115	O2 absorption	-	-	-	KAU	-	-	-	160?	-	-
1968-S358	2440009.89	1968 Jun 02 0915	Nike Apache	?	SECEDE R1	SECEDE I APPLE	-	-	-	TORT	VB	-	-	196	-	-
1968-S359	2440012.19	1968 Jun 4 1637	Nike Apache	-	NASA 14.363GT	Recovery test	-	-	-	WS	-	-	-	130	-	-
1968-S367	2440017.52	1968 Jun 10 0025	Nike Apache	-	NASA 14.222GE	SPICE (p/n)	-	-	-	FC	-	-	-	149	-	-
1968-S369	2440018.17	1968 Jun 10 1605	Nike Apache	-	NASA 14.223GE	SPICE	-	-	-	FC	-	-	-	150?	-	-
1968-S370	2440018.22	1968 Jun 10 1715	Nike Apache	-	NASA 14.335UA	Pandora C?	-	-	-	WS	-	-	-	152	-	-
1968-S372	2440019.22	1968 Jun 11 1721:02	Nike Apache	-	NASA 14.355IA	DLR K-NA-13	-	-	-	ESR	N	-	-	183	-	-
1968-A118	2440019.50	1968 Jun 12	Nike Nike	-	Sandia 158-13	Parachute test	-	-	-	TTR	-	-	-	4	-	-
1968-S375	2440019.88	1968 Jun 12 0908	Nike Apache	?	SECEDE R2	SECEDE I DOGWOOD	-	-	-	TORT	VB	-	-	188	-	-
1968-S377	2440020.46	1968 Jun 12 2259	Nike Apache	-	NASA 14.354IA	DLR K-NA-12	-	-	-	ESR	N	-	-	183	-	-
1968-S643	2440054.85	1968 Jul 17 0825	Nike Cajun	-	NASA 10.294GM	GSFC Grenade 179 W	-	-	-	WI	-	-	-	120?	-	-
1968-S644	2440054.88	1968 Jul 17 0908	Nike Cajun	-	NASA 10.295GM	GSFC Grenade 180 W	-	-	-	WI	-	-	-	120?	-	-
1968-S399	2440055.56	1968 Jul 18 0130	Nike Iroquois	-	CRL AG07.881	Mass spectrometer	-	-	-	EGL	-	-	-	125	-	-
1968-S402	2440057.27	1968 Jul 19 1833	Nike Iroquois	-	CRL AG07.642	Accidental launch	-	-	-	EGL	-	-	-	1?	-	-
1968-S403	2440059.68	1968 Jul 22 0423	Nike Iroquois	-	CRL AF07.389	Mass spectrometer	-	-	-	EGL	-	-	-	144	-	-
1968-S405	2440060.68	1968 Jul 23 0418	Nike Iroquois	-	CRL AG07.628	TMA	-	-	-	EGL	-	-	-	161	-	-
1968-S406	2440060.68	1968 Jul 23 0419	Nike Iroquois	-	CRL AG07.629	TMA	-	-	-	EGL	-	-	-	202	-	-
1968-S407	2440060.69	1968 Jul 23 0428	Nike Iroquois	-	CRL AG07.642A	TMA	-	-	-	EGL	-	-	-	200	-	-
1968-S408	2440060.69	1968 Jul 23 0428	Nike Iroquois	-	CRL AG07.632	TMA	-	-	-	EGL	-	-	-	150	-	-
1968-S409	2440061.51	1968 Jul 24 0019	Nike Apache	-	NASA 14.349UA	NO Composition	-	-	-	WI	-	-	-	106	-	-
1968-S410	2440061.53	1968 Jul 24 0046	Nike Cajun	-	NASA 10.265GM	GSFC Grenade 181a W	-	-	-	WI	-	-	-	126	-	-
1968-S412	2440061.72	1968 Jul 24 0520	Nike Cajun	-	NASA 10.253UA	UM Sphere 1/2	-	-	-	WI	-	-	-	155	-	-
1968-S413	2440061.91	1968 Jul 24 0954	Nike Apache	-	NASA 14.348UA	NO Composition	-	-	-	WI	-	-	-	105	-	-
1968-S414	2440061.92	1968 Jul 24 1006	Nike Apache	-	NASA 14.358UI	UIUC-GCA Ionos	-	-	-	WI	-	-	-	206	-	-
1968-S415	2440061.93	1968 Jul 24 1019	Nike Cajun	-	NASA 10.258GM	GSFC Grenade 181b W	-	-	-	WI	-	-	-	117	-	-
1968-S416	2440061.94	1968 Jul 24 1036	Nike Apache	-	NASA 14.359UI	UIUC-GCA Ionos	-	-	-	WI	-	-	-	211	-	-
1968-S417	2440062.21	1968 Jul 24 1700	Nike Apache	-	NASA 14.360UI	UIUC-GCA Ionos	-	-	-	WI	-	-	-	214	-	-
1968-S418	2440062.28	1968 Jul 24 1845	Nike Cajun	-	NASA 10.254UA	UM Sphere 1/2	-	-	-	WI	-	-	-	159	-	-
1968-S419	2440062.40	1968 Jul 24 2136	Nike Apache	-	NASA 14.361UI	UIUC-GCA Ionos	-	-	-	WI	-	-	-	206	-	-
1968-S420	2440062.41	1968 Jul 24 2155	Nike Cajun	-	NASA 10.266GM	GSFC Grenade 182 W	-	-	-	WI	-	-	-	84	-	-
1968-S436	2440069.39	1968 Jul 31 2121	Nike Tomahawk	-	NASA 18.31UA	JHU Airglow 9	-	-	-	WI	-	-	-	300	-	-
1968-S444	2440076.00	1968 Aug 7 1205	Nike Apache	-	NASA 14.320UE	Rice Particles	-	-	-	WI	-	-	-	196	-	-
1968-S446	2440076.88	1968 Aug 8 0900	Nike Iroquois	-	CRL AG07.273	Meteor dust	-	-	-	CLBI	-	-	-	158	-	-
1968-S447	2440077.30	1968 Aug 8 1910:00	Nike Tomahawk	-	NASA 18.51GA	UM Thermosphere 11	-	-	-	WI	-	-	-	286	-	-
1968-S448	2440077.32	1968 Aug 8 1935:00	Nike Apache	-	NASA 14.187UM	UM Pitot 38	-	-	-	WI	-	-	-	152	-	-
1968-S449	2440077.79	1968 Aug 9 0702	Nike Tomahawk	-	NASA 18.56GA	UM Thermosphere 12	-	-	-	WI	-	-	-	320	-	-
1968-S450	2440077.81	1968 Aug 9 0724:00	Nike Apache	-	NASA 14.357UM	UM Pitot 39	-	-	-	WI	-	-	-	146	-	-
1968-S451	2440079.88	1968 Aug 11 0904	Nike Iroquois	-	CRL AG07.274	Meteorites	-	-	-	CLBI	-	-	-	98	-	-
1968-S452	2440081.01	1968 Aug 12 1214	Nike Hydac	-	STV SR-071	-	-	-	-	WS	LC33 L-314	-	-	218?	-	-
1968-S453	2440080.88	1968 Aug 12 0900	Nike Iroquois	-	CRL AG07.275	Meteorites	-	-	-	CLBI	-	-	-	153	-	-
1968-S454	2440080.86	1968 Aug 12 0838	Nike Apache	-	NASA 14.336UA	Pandora D	-	-	-	WS	-	-	-	155	-	-
1968-S457	2440083.88	1968 Aug 15 0900	Nike Iroquois	-	CRL AG07.276	Meteorites	-	-	-	CLBI	-	-	-	95	-	-
1968-S461	2440087.89	1968 Aug 19 0917	Nike Iroquois	-	CRL AG07.636	Niro TMA 4	-	-	-	FC	-	-	-	177	-	-
1968-S463	2440088.88	1968 Aug 20 0900	Nike Tomahawk	-	CRL AH08.649	NO Jet payload 1	-	-	-	FC	-	-	-	194	-	-
1968-S464	2440088.92	1968 Aug 20 1010	Nike Iroquois	-	CRL AG07.685	Niro TMA 5/NO	-	-	-	FC	-	-	-	175	-	-
1968-S465	2440089.31	1968 Aug 20 1932	Nike Apache	-	NASA 14.301UA	Pandora E	-	-	-	WS	-	-	-	154	-	-
1968-S468	2440090.32	1968 Aug 21 1940	Nike Apache	-	NASA 14.369GI	-	-	-	-	WI	-	-	-	193	-	-
1968-S469	2440090.33	1968 Aug 21 1953	Nike Apache	-	NASA 14.368GI	-	-	-	-	WI	-	-	-	189	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S470	2440090.34	1968 Aug 21 2004	Nike Apache	-	NASA 14.370GI	-	-	-	-	WI	-	-	-	192	-	-
1968-S471	2440090.40	1968 Aug 21 2130	Nike Tomahawk	-	NASA 18.30UI	-	-	-	-	WI	-	-	-	262	-	-
1968-A92	2440091.44	1968 Aug 22 2230	Nike	-	-	Launcher test	-	-	-	FC	LC7	-	-	1	-	-
1968-S474	2440095.65	1968 Aug 27 0334	Nike Iroquois	-	CRL AH07.667	Niro TMA 6	-	-	-	FC	-	-	-	201	-	-
1968-S475	2440095.70	1968 Aug 27 0444	Nike Tomahawk	-	CRL AH08.668	NO Jet payload 2	-	-	-	FC	-	-	-	201	-	-
1968-S481	2440097.73	1968 Aug 29 0538	Nike Apache	-	NASA 14.191	ISRO 20.06	TERLS-081	-	-	TERLS	-	-	-	170	-	-
1968-S482	2440097.86	1968 Aug 29 0845	Nike Apache	-	NASA 14.192	ISRO 20.07	TERLS-082	-	-	TERLS	-	-	-	170	-	-
1968-S483	2440098.23	1968 Aug 29 1730	Nike Apache	-	NASA 14.193	ISRO 20.08	TERLS-083	-	-	TERLS	-	-	-	168	-	-
1968-S487	2440103.54	1968 Sep 4 0104	Nike Iroquois	-	CRL A07.913-1	Sphere	-	-	-	EGL	-	-	-	227	-	-
1968-S488	2440103.56	1968 Sep 4 0129	Nike Iroquois	-	CRL A07.913-2	Sphere	-	-	-	EGL	-	-	-	232	-	-
1968-S486	2440104.09	1968 Sep 4 1405	Nike Hydac	-	STV SR-072	-	-	-	-	WS	-	-	-	150?	-	-
1968-S490	2440105.00	1968 Sep 5 1200	Nike Hydac	-	STV SR-073	-	-	-	-	WS	LC33 L-314	-	-	150?	-	-
1968-S491	2440105.08	1968 Sep 5 1400	Nike Hydac	-	STV SR-074	-	-	-	-	WS	LC33 L-314	-	-	150?	-	-
1968-M22	2440116.17	1968 Sep 16 1558	Nike Cajun	-	NASA 10.235GM	GSFC Ozone 3	-	-	-	WI	-	-	-	69	-	-
1968-A97	2440116.20	1968 Sep 16 1650	Aerobee 170	-	CRL AT3.170	Dummy Sustainer	-	-	-	WS	-	-	-	12	-	-
1968-S497	2440116.22	1968 Sep 16 1712	Nike Cajun	-	NASA 10.269GM	GSFC Grenade 183 W	-	-	-	WI	-	-	-	118	-	-
1968-S498	2440117.34	1968 Sep 17 2003	Nike Cajun	-	NASA 10.257GM	GSFC Grenade 184 PB	-	-	-	PBA	-	-	-	100?	-	-
1968-A99	2440117.81	1968 Sep 18 0730	Nike Cajun	-	NASA 10.282GM	GSFC Grenade 185 C	-	-	-	FC	-	-	-	19	-	-
1968-S502	2440120.31	1968 Sep 20 1931:00	Nike Tomahawk	-	NASA 18.75GE	B field	-	-	-	AND	-	-	-	321?	-	-
1968-S503	2440120.31	1968 Sep 20 1932:00	Nike Tomahawk	-	NASA 18.58IE	Ferdinand 18	-	-	-	AND	-	-	-	239	-	-
1968-S505	2440121.32	1968 Sep 21 1936:00	Nike Tomahawk	-	NASA 18.76GE	B field	-	-	-	AND	-	-	-	321?	-	-
1968-S507	2440123.31	1968 Sep 23 1929:00	Nike Tomahawk	-	NASA 18.77GE	B field	-	-	-	AND	-	-	-	321?	-	-
1968-S514	2440127.49	1968 Sep 27 2345	Nike Cajun	-	NASA 10.281GM	GSFC Grenade 186 C	-	-	-	FC	-	-	-	100?	-	-
1968-S518	2440131.41	1968 Oct 1 2144:16	Nike Tomahawk	-	NASA 18.59IE	Ferdinand 19	-	-	-	AND	-	-	-	228	-	-
1968-S685	2440140.02	1968 Oct 10 1230	Nike Hydac	-	STV SR-076	-	-	-	-	WS	-	-	-	150?	-	-
1968-S533	2440144.54	1968 Oct 15 0100	Nike Cajun	-	NASA 10.287GM	GSFC Grenade 187 PB	-	-	-	PBA	-	-	-	129	-	-
1968-S534	2440144.62	1968 Oct 15 0300	Nike Cajun	-	NASA 10.288GM	GSFC Grenade 188 PB	-	-	-	PBA	-	-	-	179	-	-
1968-S536	2440145.42	1968 Oct 15 2212	Nike Cajun	-	NASA 10.251GM	GSFC Grenade 189 C	-	-	-	FC	-	-	-	127	-	-
1968-S537	2440145.51	1968 Oct 16 0011	Nike Tomahawk	-	NASA 18.69UA	Composition	-	-	-	WI	-	-	-	340	-	-
1968-S538	2440145.51	1968 Oct 16 0012	Nike Cajun	-	NASA 10.252GM	GSFC Grenade 190 C	-	-	-	FC	-	-	-	123	-	-
1968-S541	2440147.40	1968 Oct 17 2130	Nike Hydac	-	9.5-68-4-604	-	-	-	-	WS	LC33	-	-	150?	-	-
1968-S549	2440152.12	1968 Oct 22 1450	Nike Hydac	-	9.5-68-5-604	-	-	-	-	WS	-	-	-	150?	-	-
1968-S551	2440154.04	1968 Oct 24 1303	Nike Hydac	-	STV SR-077	-	-	-	-	WS	LC33 L-314	-	-	150?	-	-
1968-S701	2440153.50	1968 Oct 24	Nike Cajun	-	-	-	-	-	-	KAU	-	-	-	100?	-	-
1968-S702	2440153.50	1968 Oct 24	Nike Cajun	-	-	-	-	-	-	KAU	-	-	-	100?	-	-
1968-S554	2440155.88	1968 Oct 26 0911	Aerobee 170	-	NASA 12.13GT-UG	KP3.23	-	-	-	WS	LC35	-	-	245	-	-
1968-S571	2440167.63	1968 Nov 7 0305	Nike Apache	-	NASA 14.261IG	ISRO 40.03	TERLS-089	-	-	TERLS	-	-	-	150	-	-
1968-S573	2440168.27	1968 Nov 7 1827	Nike Apache	-	NASA 14.379GI	Ion concentration	-	-	-	WI	-	-	-	104	-	-
1968-S703	2440168.50	1968 Nov 8	Nike Tomahawk	-	Sandia 152-121	Rocket EMP Test 1	-	-	-	JI	-	-	-	150?	-	-
1968-A109	2440169.87	1968 Nov 9 0859	Nike Iroquois	-	CRL AF07.292	B field/particles	-	-	-	FC	LC7	-	-	16	-	-
1968-S593	2440180.25	1968 Nov 19 1800	Nike Cajun	-	NASA 10.293GM	GSFC Grenade 191 W	-	-	-	WI	-	-	-	123	-	-
1968-S594	2440180.27	1968 Nov 19 1830	Nike Apache	-	NASA 14.371GI	NIR Radiometer	-	-	-	WI	-	-	-	200	-	-
1968-S595	2440180.34	1968 Nov 19 2004:59	Nike Apache	-	NASA 14.386UM	UM Pitot 40/UM Sphere	-	-	-	WI	-	-	-	148	-	-
1968-S597	2440180.98	1968 Nov 20 1124	Nike Cajun	-	NASA 10.283GM	GSFC Grenade 192 C	-	-	-	FC	-	-	-	120	-	-
1968-S598	2440181.06	1968 Nov 20 1324	Nike Cajun	-	NASA 10.284GM	GSFC Grenade 193 C	-	-	-	FC	-	-	-	114	-	-
1968-S604	2440182.52	1968 Nov 22 0031	Nike Cajun	-	NASA 10.289GM	GSFC Grenade 194 PB	-	-	-	PBA	-	-	-	179	-	-
1968-S605	2440182.83	1968 Nov 22 0755	Nike Cajun	-	NASA 10.290GM	GSFC Grenade 195 PB	-	-	-	PBA	-	-	-	179	-	-
1968-A113	2440187.57	1968 Nov 27 0142:00	Nike Apache	-	Ferdinand 17	Ferdinand 17	-	-	-	AND	-	-	-	10?	-	-
1968-S623	2440193.84	1968 Dec 3 0810	Nike Apache	-	NASA 14.351UA	Pandora F	-	-	-	WS	-	-	-	153	-	-
1968-S621	2440194.83	1968 Dec 4 0754:17	Nike Apache	-	Ferdinand 16	Ferdinand 16	-	-	-	AND	-	-	-	135	-	-
1968-S636	2440200.41	1968 Dec 9 2155	Nike Iroquois	-	CRL AF07.660	Smoke	-	-	-	EGL	-	-	-	124	-	-
1968-S637	2440200.41	1968 Dec 9 2155	Nike Iroquois	-	CRL AF07.664	Smoke	-	-	-	EGL	-	-	-	118	-	-
1968-S640	2440201.27	1968 Dec 10 1832	Nike Iroquois	-	CRL AG07.883	Mass spectrometer	-	-	-	WI	-	-	-	122	-	-
1968-S641	2440202.61	1968 Dec 12 0245	Nike Iroquois	-	CRL AH07.887	Mass spectrometer	-	-	-	WI	-	-	-	118	-	-
1968-S646	2440203.63	1968 Dec 13 0311	Nike Cajun	-	NASA 10.285GM	GSFC Grenade 196 C	-	-	-	FC	-	-	-	121	-	-
1968-S647	2440203.71	1968 Dec 13 0459	Nike Cajun	-	NASA 10.291GM	GSFC Grenade 197 PB	-	-	-	PBA	-	-	-	100?	-	-
1968-S648	2440203.72	1968 Dec 13 0511	Nike Cajun	-	NASA 10.286GM	GSFC Grenade 198 C	-	-	-	FC	-	-	-	124	-	-
1968-S649	2440203.79	1968 Dec 13 0659	Nike Cajun	-	NASA 10.292GM	GSFC Grenade 199 PB	-	-	-	PBA	-	-	-	93	-	-
1968-S651	2440205.13	1968 Dec 14 1508	Nike Apache	-	NASA 14.352UA	Pandora G	-	-	-	WS	-	-	-	159	-	-
1969-S754	2440228.49	1969 Jan 6 2341	Nike Iroquois	-	CRL AH07.671	AFGL Ba release	-	-	-	EGL	-	-	-	200?	-	-
1969-S53	2440228.52	1969 Jan 7 0035	Nike Iroquois	-	CRL AG07.626	AFGL TMA release	-	-	-	EGL	-	-	-	154	-	-
1969-S54	2440229.48	1969 Jan 7 2338	Nike Iroquois	-	CRL AH07.672	AFGL Ba release	-	-	-	EGL	-	-	-	215	-	-
1969-S755	2440229.52	1969 Jan 8 0030	Nike Iroquois	-	CRL AG07.625?	AFGL TMA release	-	-	-	EGL	-	-	-	150?	-	-
1969-S59	2440232.81	1969 Jan 11 0730	Nike Cajun	-	NASA 10.236GM	GSFC Ozone 4?	-	-	-	PBA	-	-	-	100?	-	-
1969-S60	2440232.93	1969 Jan 11 1015	Nike Cajun	-	NASA 10.256GM	GSFC Grenade 200 PB	-	-	-	PBA	-	-	-	100?	-	-
1969-S61	2440233.56	1969 Jan 12 0132	Nike Iroquois	-	CRL AG07.652	AFGL TMA release	-	-	-	EGL	-	-	-	157	-	-
1969-S63	2440235.49	1969 Jan 13 2343	Nike Iroquois	-	CRL AH07.673	AFGL Ba release	-	-	-	EGL	-	-	-	220	-	-
1969-S64	2440236.06	1969 Jan 14 1330	Nike Hydac	-	STV 75	SR-06	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1969-S71	2440239.27	1969 Jan 17 1834	Nike Cajun	-	NASA 10.313IM	RTG SNC 2A/1 K69/1	-	-	-	ESR	N	-	-	117	-	-
1969-S72	2440239.40	1969 Jan 17 2132	Nike Cajun	-	NASA 10.306GM	GSFC Grenade 201 W	-	-	-	WI	-	-	-	112	-	-
1969-S73	2440240.58	1969 Jan 19 0200	Nike Cajun	-	NASA 10.299GM	GSFC Grenade 202 PB	-	-	-	PBA	-	-	-	100?	-	-
1969-M01	2440241.30	1969 Jan 19 1905	Nike Cajun	-	NASA 10.314IM	RTG SNC 2B/2 K69/1	-	-	-	ESR	N	-	-	75	-	-
1969-S75	2440242.21	1969 Jan 20 1704	Nike Cajun	-	NASA 10.301GM	GSFC Grenade 203 C	-	-	-	FC	-	-	-	97	-	-
1969-S79	2440244.43	1969 Jan 22 2217	Nike Cajun	-	NASA 10.304GM	GSFC Grenade 204 C	-	-	-	FC	-	-	-	94	-	-
1969-S83	2440245.46	1969 Jan 23 2300	Nike Cajun	-	NASA 10.315IM	RTG SNC 2A/3 K69/1	-	-	-	ESR	N	-	-	116	-	-
1969-S84	2440246.33	1969 Jan 24 2000	Nike Cajun	-	NASA 10.305GM	GSFC Grenade 205 W	-	-	-	WI	-	-	-	81	-	-
1969-S85	2440247.38	1969 Jan 25 2100	Nike Cajun	-	NASA 10.316IM	RTG SNC 2A/4 K69/1	-	-	-	ESR	N	-	-	118	-	-
1969-S86	2440247.71	1969 Jan 26 0500	Nike Cajun	-	NASA 10.297GM	GSFC Grenade 206 PB	-	-	-	PBA	-	-	-	91	-	-
1969-S87	2440247.91	1969 Jan 26 0945	Aerobee 350	-	NASA 17.03GE	Electron Accelerator	-	-	-	WI	-	-	-	271	-	-
1969-A34	2440247.91	1969 Jan 26 0947	Nike Tomahawk	-	NASA 18.11GI	-	-	-	-	WI	-	-	-	19	-	-
1969-S88	2440249.74	1969 Jan 28 0549	Nike Tomahawk	-	NASA 18.25UG	Soft X-ray Counter	-	-	-	WI	-	-	-	224	-	-
1969-S93	2440252.22	1969 Jan 30 1710	Nike Cajun	-	NASA 10.302GM	GSFC Grenade 207 C	-	-	-	FC	-	-	-	124	-	-
1969-S95	2440252.79	1969 Jan 31 0700	Nike Cajun	-	NASA 10.298GM	GSFC Grenade 208 PB	-	-	-	PBA	-	-	-	100?	-	-
1969-S96	2440252.86	1969 Jan 31 0838	Nike Cajun	-	NASA 10.274GM	GSFC Ozone 5	-	-	-	PBA	-	-	-	100?	-	-
1969-S97	2440253.21	1969 Jan 31 1700	Nike Apache	-	NASA 14.391UI	-	-	-	-	WI	-	-	-	227	-	-
1969-S98	2440253.23	1969 Jan 31 1730	Nike Iroquois	-	CRL AH07.891	AFCRL Atmosphere	-	-	-	WI	-	-	-	137	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S99	2440253.25	1969 Jan 31 1757	Nike Cajun	-	NASA 10.307GM	GSFC Grenade 209 W	-	-	-	WI	-	-	-	121	-	-
1969-S100	2440253.27	1969 Jan 31 1836	Nike Iroquois	-	CRL AH07.573	AFCRL Sphere	-	-	-	WI	-	-	-	188	-	-
1969-S101	2440253.30	1969 Jan 31 1910	Nike Apache	-	NASA 14.389UA	-	-	-	-	WI	-	-	-	115	-	-
1969-S102	2440253.38	1969 Jan 31 2112	Nike Apache	-	NASA 14.396GM	-	-	-	-	WI	-	-	-	116	-	-
1969-A40	2440253.39	1969 Jan 31 2125	Nike Cajun	-	NASA 10.268GM	GSFC Grenade 210 W	-	-	-	WI	-	-	-	20	-	-
1969-S103	2440253.41	1969 Jan 31 2153	Nike Iroquois	-	CRL AH07.576	AFCRL Sphere	-	-	-	WI	-	-	-	188	-	-
1969-S106	2440257.13	1969 Feb 4 1511	Nike Hydac	-	STV 82	-	-	-	-	WS	LC33 L-361	-	-	100?	-	-
1969-S107	2440257.17	1969 Feb 4 1600	Nike Hydac	-	STV 83	-	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1969-S109	2440257.44	1969 Feb 4 2230	Nike Cajun	-	NASA 10.300GM	GSFC Grenade 211 PB	-	-	-	PBA	-	-	-	100?	-	-
1969-S112	2440258.90	1969 Feb 6 0939	Nike Cajun	-	NASA 10.303GM	GSFC Grenade 212 C	-	-	-	FC	-	-	-	129	-	-
1969-S114	2440259.21	1969 Feb 6 1709	Nike Apache	-	NASA 14.392UI	-	-	-	-	WI	-	-	-	219	-	-
1969-S115	2440259.31	1969 Feb 6 1929	Nike Apache	-	NASA 14.390UA	-	-	-	-	WI	-	-	-	117	-	-
1969-S116	2440259.38	1969 Feb 6 2109	Nike Cajun	-	NASA 10.267GM	GSFC Grenade 213 W	-	-	-	WI	-	-	-	128	-	-
1969-S123	2440260.69	1969 Feb 8 0440	Nike Apache	-	NASA 14.269UI	-	-	-	-	FC	-	-	-	133	-	-
1969-S126	2440264.64	1969 Feb 12 0316	Nike Apache	-	NASA 14.306UI	-	-	-	-	FC	-	-	-	137	-	-
1969-S128	2440264.78	1969 Feb 12 0641	Nike Cajun	-	Launcher test	-	-	-	-	FC	-	-	-	100?	-	-
1969-S134	2440266.47	1969 Feb 13 2311	Nike Tomahawk	-	NASA 18.86CA	GCA Release Na	-	-	-	WI	-	-	-	270?	-	-
1969-S135	2440266.54	1969 Feb 14 0100	Nike Apache	-	NASA 14.397CM	GCA Release TMA	-	-	-	WI	-	-	-	265	-	-
1969-S136	2440266.64	1969 Feb 14 0319	Nike Apache	-	NASA 14.399CM	GCA Release TMA	-	-	-	WI	-	-	-	212	-	-
1969-S137	2440266.71	1969 Feb 14 0500	Nike Apache	-	NASA 14.400CM	GCA Release TMA	-	-	-	WI	-	-	-	210	-	-
1969-S138	2440266.79	1969 Feb 14 0700	Nike Apache	-	NASA 14.401CM	GCA Release TMA	-	-	-	WI	-	-	-	209	-	-
1969-S139	2440266.88	1969 Feb 14 0900	Nike Apache	-	NASA 14.398CM	GCA Release TMA	-	-	-	WI	-	-	-	206	-	-
1969-S140	2440266.97	1969 Feb 14 1113	Nike Apache	-	NASA 14.402CM	GCA Release Na	-	-	-	WI	-	-	-	213	-	-
1969-S143	2440270.33	1969 Feb 17 2002	Nike Apache	-	NASA 14.374UI	-	-	-	-	FC	-	-	-	135	-	-
1969-S149	2440273.63	1969 Feb 21 0301	Nike Apache	-	NASA 14.307UI	-	-	-	-	FC	-	-	-	200?	-	-
1969-S154	2440280.18	1969 Feb 27 1614	Nike Hydac	-	STV 84	-	-	-	-	WS	LC33 L-314	-	-	214	-	-
1969-S155	2440279.59	1969 Feb 27 0205	Nike Apache	-	NASA 14.321UE	-	-	-	-	FC	-	-	-	166	-	-
1969-S162	2440284.69	1969 Mar 4 0430	Nike Hydac	-	SECEDE R3	SECEDE III JUNIPER	-	-	-	PF	LC1	-	-	170	-	-
1969-S163	2440285.69	1969 Mar 5 0430	Nike Hydac	-	SECEDE R4	SECEDE III ELM	-	-	-	PF	LC1	-	-	170	-	-
1969-S169	2440288.05	1969 Mar 7 1312	Nike Tomahawk	-	NASA 18.83GE	Ba	-	-	-	CP	-	-	-	270?	-	-
1969-S171	2440288.64	1969 Mar 8 0318	Nike Tomahawk	-	NASA 18.84GE	Ba	-	-	-	CP	-	-	-	270?	-	-
1969-S174	2440289.65	1969 Mar 9 0329	Nike Tomahawk	-	NASA 18.85GE	Ba	-	-	-	CP	-	-	-	270?	-	-
1969-S180	2440291.77	1969 Mar 11 0632	Nike Tomahawk	-	NASA 18.81UA	-	-	-	-	FC	-	-	-	270?	-	-
1969-S181	2440292.09	1969 Mar 11 1408	Nike Hydac	-	SECEDE R5	SECEDE III IRONWOOD	-	-	-	PF	LC1	-	-	140	-	-
1969-S193	2440296.25	1969 Mar 15 1755	Nike Apache	-	K-NA-11	DLR K-NA-11	-	-	-	ESR	N	-	-	226	-	-
1969-S196	2440297.25	1969 Mar 16 1805	Nike Apache	-	K-NA-17	DLR K-NA-17	-	-	-	ESR	N	-	-	233	-	-
1969-S199	2440298.03	1969 Mar 17 1238	Nike Tomahawk	-	NASA 18.15UE	-	-	-	-	PF	LC1	-	-	216	-	-
1969-S200	2440298.26	1969 Mar 17 1810	Nike Apache	-	K-NA-18	DLR K-NA-18	-	-	-	ESR	N	-	-	231	-	-
1969-A54	2440308.30	1969 Mar 27 1905	Nike	-	Smoke 109	-	-	-	-	WI	-	-	-	17	-	-
1969-A55	2440308.32	1969 Mar 27 1947	Nike	-	Smoke 110	-	-	-	-	WI	-	-	-	14	-	-
1969-S230	2440308.52	1969 Mar 28 0025	Nike Cajun	-	NASA 10.309GM	INTA NC-6901	GSFC Grenade 214 E	-	-	ELAR	-	-	-	90	-	-
1969-S232	2440308.81	1969 Mar 28 0732	Nike Cajun	-	NASA 10.296GM	-	GSFC Grenade 215 W	-	-	WI	-	-	-	121	-	-
1969-S234	2440309.50	1969 Mar 29 0005	Nike Cajun	-	NASA 10.310GM	INTA NC-6902	GSFC Grenade 216 E	-	-	ELAR	-	-	-	90	-	-
1969-S236	2440309.80	1969 Mar 29 0715	Nike Cajun	-	NASA 10.308GM	-	GSFC Grenade 217 W	-	-	WI	-	-	-	111	-	-
1969-S259	2440321.36	1969 Apr 9 2038:32	Nike Apache	-	Ferdinand 20	Ferdinand 20	-	-	-	AND	-	-	-	139	-	-
1969-S262	2440324.47	1969 Apr 12 2319	Nike Apache	-	NASA 14.325GE	-	-	-	-	FC	-	-	-	158	-	-
1969-S264	2440325.09	1969 Apr 13 1404	Nike Apache	-	NASA 14.326GE	-	-	-	-	FC	-	-	-	155	-	-
1969-S267	2440326.47	1969 Apr 14 2315	Nike Apache	-	NASA 14.327GE	-	-	-	-	FC	-	-	-	161	-	-
1969-S274	2440328.38	1969 Apr 16 2100	Nike Apache	-	NASA 14.393UI	-	-	-	-	WI	-	-	-	210	-	-
1969-S276	2440328.79	1969 Apr 17 0657	Nike Tomahawk	-	NASA 18.80CE	-	-	-	-	FC	-	-	-	260	-	-
1969-S281	2440329.74	1969 Apr 18 0547	Nike Tomahawk	-	CRL AT08.288	Mag field	-	-	-	FC	-	-	-	296	-	-
1969-S282	2440329.74	1969 Apr 18 0548	Nike Iroquois	-	CRL AH07.297	Mag field	-	-	-	FC	-	-	-	160	-	-
1969-S301	2440338.21	1969 Apr 26 1700	Nike Apache	-	NASA 14.403IG	ISRO 40.04	TERLS-106	-	-	TERLS	-	-	-	144	-	-
1969-S303	2440340.21	1969 Apr 28 1704	Nike Apache	-	NASA 14.404IG	ISRO 40.05	TERLS-107	-	-	TERLS	-	-	-	148	-	-
1969-S317	2440349.50	1969 May 8 0005	Nike Cajun	-	NASA 10.311GM	INTA NC-6903	GSFC Grenade 218 E	-	-	ELAR	-	-	-	91	-	-
1969-S318	2440349.63	1969 May 8 0311	Nike Cajun	-	NASA 10.322GM	-	GSFC Grenade 219 W	-	-	WI	-	-	-	129	-	-
1969-S319	2440351.57	1969 May 10 0145	Nike Cajun	-	NASA 10.312GM	INTA NC-6904	GSFC Grenade 220 E	-	-	ELAR	-	-	-	90	-	-
1969-S320	2440351.69	1969 May 10 0436	Nike Cajun	-	NASA 10.321GM	-	GSFC Grenade 221 W	-	-	WI	-	-	-	128	-	-
1969-S321	2440354.29	1969 May 12 1852	Nike Apache	-	NASA 14.380GI	-	-	-	-	WI	-	-	-	200?	-	-
1969-S322	2440354.31	1969 May 12 1923:00	Nike Apache	-	NASA 14.362UM	UM Pitot 41	-	-	-	WI	-	-	-	203	-	-
1969-S323	2440354.54	1969 May 13 0104	Nike Iroquois	-	CRL AH07.678	Release	-	-	-	EGL	-	-	-	192	-	-
1969-S324	2440354.56	1969 May 13 0123	Nike Iroquois	-	CRL AH07.674	Release QUEENA	-	-	-	EGL	-	-	-	191	-	-
1969-A81	2440355.24	1969 May 13 1750	Nike	-	Smoke 111	-	-	-	-	WI	-	-	-	18	-	-
1969-S326	2440356.13	1969 May 14 1510	Nike Iroquois	-	CRL AG07.686	Niro TMA 7	-	-	-	KAU	-	-	-	175	-	-
1969-S327	2440356.55	1969 May 15 0105	Nike Iroquois	-	CRL AH07.679	Release	-	-	-	EGL	-	-	-	203	-	-
1969-S328	2440356.56	1969 May 15 0128	Nike Iroquois	-	CRL AH07.675	Release SOPHIA	-	-	-	EGL	-	-	-	203	-	-
1969-S332	2440358.79	1969 May 17 0653	Nike Tomahawk	12	Sandia 152-127	LRL BOX-8c	-	-	-	KAU	-	-	-	159	-	-
1969-S337	2440363.74	1969 May 22 0546	Nike Iroquois	-	CRL AH07.687	Niro TMA 8	-	-	-	KAU	-	-	-	176	-	-
1969-S338	2440363.82	1969 May 22 0738	Nike Tomahawk	-	CRL AH08.669	NO Jet payload 3	-	-	-	KAU	-	-	-	176	-	-
1969-S725	2440363.50	1969 May 22	Nike Tomahawk	-	Sandia 152-125	Rocket EMP Test 2	-	-	-	KAU	-	-	-	150?	-	-
1969-S339	2440364.04	1969 May 22 1300	Nike Tomahawk	-	CRL AH08.919-1	NO/Photometers	-	-	-	KAU	-	-	-	156	-	-
1969-S340	2440364.13	1969 May 22 1503	Nike Iroquois	-	CRL A07.918-1	Niro TMA 9	-	-	-	KAU	-	-	-	170	-	-
1969-S348	2440370.37	1969 May 28 2048	Nike Apache	-	NASA 14.420UA	Pandora H	-	-	-	WS	-	-	-	155?	-	-
1969-S350	2440371.08	1969 May 29 1355	Nike Apache	-	STV 85	-	-	-	-	WS	-	-	-	200?	-	-
1969-S355	2440377.17	1969 Jun 4 1600	Nike Hydac	-	STV 86	-	-	-	-	WS	LC33 L-314	-	-	100?	-	-
1969-S359	2440382.17	1969 Jun 9 1600	Nike Apache	-	NASA 14.421UA	Pandora J	-	-	-	WS	-	-	-	104?	-	-
1969-S384	2440400.52	1969 Jun 28 0035	Nike Apache	-	NASA 14.387UA	-	-	-	-	WI	-	-	-	106	-	-
1969-S387	2440404.03	1969 Jul 1 1239	Nike Apache	-	STV 87	-	-	-	-	WS	-	-	-	200?	-	-
1969-S389	2440404.42	1969 Jul 1 2200	Nike Iroquois	-	CRL AH07.888	Mass spectrometer	-	-	-	EGL	-	-	-	137	-	-
1969-S398	2440413.23	1969 Jul 10 1730	Nike Hydac	-	STV 88	-	-	-	-	WS	LC33 L-314	-	-	210?	-	-
1969-S399	2440413.27	1969 Jul 10 1830	Nike Hydac	-	Ballistic round	-	-	-	-	WS	LC33 L-361	-	-	212	-	-
1969-S431	2440433.20	1969 Jul 30 1655	Nike Hydac	-	STV 89	-	-	-	-	WS	LC33 L-314	-	-	218	-	-
1969-S432	2440433.24	1969 Jul 30 1745	Nike Hydac	-	Ballistic round	-	-	-	-	WS	LC33 L-361L	-	-	224	-	-
1969-S411	2440418.62	1969 Jul 16 0250	Nike Tomahawk	-	NASA 18.32UG	-	-	-	-	WI	-	-	-	209	-	-
1969-S442	2440439.65	1969 Aug 6 0336	Nike Javelin	-	PCA69 BRL 1	BRL-1	-	-	-	FC	-	-	-	117	-	-
1969-S444	2440440.65	1969 Aug 7 0336	Nike Iroquois	-	CRL AT07.394?	[NOT IN FC]	-	-	-	FC	-	-	-	195	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S445	2440440.65	1969 Aug 7 0336	Nike Iroquois	-	CRL AT07.179	Sphere	-	-	-	FC	-	-	-	196	-	-
1969-S446	2440440.69	1969 Aug 7 0430	Nike Iroquois	-	CRL A07.902-1	Mass spectrometer	-	-	-	FC	-	-	-	84	-	-
1969-S451	2440446.68	1969 Aug 13 0423	Nike Iroquois	-	CRL A07.902-2	Mass spectrometer	-	-	-	FC	-	-	-	114	-	-
1969-S452	2440446.77	1969 Aug 13 0630	Nike Apache	-	NASA 14.422UA	Pandora K (Perseids)	-	-	-	WS	-	-	-	143?	-	-
1969-S460	2440455.09	1969 Aug 21 1409	Nike Tomahawk	-	NASA 18.78GA	Planetary Mass Spec	-	-	-	WI	-	-	-	227	-	-
1969-S461	2440455.13	1969 Aug 21 1509	Nike Tomahawk	-	NASA 18.102GA	UM Thermosphere 13	-	-	-	WI	-	-	-	318	-	-
1969-S465	2440455.94	1969 Aug 22 1036	Nike Apache	-	NASA 14.423UG	Pandora L (Backgr.)	-	-	-	WS	-	-	-	158	-	-
1969-S708	2440462.25	1969 Aug 28 1803	Nike Cajun	-	-	NRL Cesium?	-	-	-	WI	-	-	-	102	-	-
1969-S709	2440462.92	1969 Aug 29 1000	Nike Cajun	-	-	NRL Cesium?	-	-	-	WI	-	-	-	102	-	-
1969-A149	2440469.50	1969 Sep 5	Aerobee 170	-	NRL NE4.234	-	-	-	-	WS	-	-	-	20	-	-
1969-S481	2440470.58	1969 Sep 6 0155	Nike Javelin	-	-	Pre-Secede 1	-	-	-	WS	-	-	-	100?	-	-
1969-S484	2440471.58	1969 Sep 7 0152	Nike Javelin	-	-	Pre-Secede 2	-	-	-	WS	-	-	-	100?	-	-
1969-S492	2440475.37	1969 Sep 10 2046	Nike Apache	-	NASA 14.395UI	-	-	-	-	WI	-	-	-	205	-	-
1969-S495	2440476.49	1969 Sep 11 2344:14	Nike Tomahawk	12	Sandia 152-109	LRL RCS-3 (Daisy III)	-	-	-	TTR	HAD4	-	-	165	-	-
1969-S497	2440476.67	1969 Sep 12 0406	Nike Apache	-	NASA 14.394UI	-	-	-	-	WI	-	-	-	189	-	-
1969-S500	2440478.57	1969 Sep 14 0142	Nike Javelin	-	-	Pre-Secede 3	-	-	-	WS	-	-	-	100?	-	-
1969-S517	2440489.55	1969 Sep 25 0111	Nike Hydac	-	STV 90	-	-	-	-	WS	LC33 L-361L	-	-	196	-	-
1969-S532	2440498.72	1969 Oct 4 0515	Nike Tomahawk	-	NASA 18.71UG	-	-	-	-	WI	-	-	-	235	-	-
1969-S537	2440505.58	1969 Oct 11 0200	Nike Iroquois	-	CRL AH07.893?	[AH7.890 in CRL]	-	-	-	FC	-	-	-	118	-	-
1969-S567	2440517.22	1969 Oct 22 1712	Nike Hydac	-	STV 91	-	-	-	-	WS	LC33 L-361L	-	-	196	-	-
1969-S590	2440528.38	1969 Nov 2 2110	Nike Javelin	-	-	PCA69 BRL 4	-	-	-	FC	-	-	-	119	-	-
1969-S593	2440528.77	1969 Nov 3 0629	Nike Iroquois	-	CRL A07.902-3	PCA69 N-2	-	-	-	FC	-	-	-	117	-	-
1969-S594	2440528.78	1969 Nov 3 0642	Nike Iroquois	-	CRL AT07.396	PCA69 C-1	-	-	-	FC	-	-	-	210	-	-
1969-S595	2440528.81	1969 Nov 3 0730	Nike Iroquois	-	CRL AG07.882	PCA69 N-1	-	-	-	FC	-	-	-	138	-	-
1969-S597	2440529.02	1969 Nov 3 1232	Nike Iroquois	-	CRL AT07.397	PCA69 C-2	-	-	-	FC	-	-	-	167	-	-
1969-S598	2440529.04	1969 Nov 3 1257:00	Nike Javelin	-	-	PCA69 BRL 2	-	-	-	FC	-	-	-	116	-	-
1969-S599	2440529.06	1969 Nov 3 1330	Nike Javelin	-	-	PCA69 BRL 3	-	-	-	FC	-	-	-	90	-	-
1969-S603	2440529.23	1969 Nov 3 1730	Nike Iroquois	-	CRL AH07.886	PCA69 N-3	-	-	-	FC	-	-	-	144	-	-
1969-S604	2440529.24	1969 Nov 3 1747	Nike Iroquois	-	CRL A07.902-4	PCA69 N-4	-	-	-	FC	-	-	-	122	-	-
1969-A185	2440529.28	1969 Nov 3 1840	Nike Iroquois	-	CRL AT07.395	PCA69 C-3 Sphere	-	-	-	FC	-	-	-	47	-	-
1969-S605	2440529.29	1969 Nov 3 1854	Nike Javelin	-	-	PCA69 BRL 5	-	-	-	FC	-	-	-	126	-	-
1969-S607	2440529.46	1969 Nov 3 2308	Nike Iroquois	-	CRL AT07.398	PCA69 C-4 Sphere	-	-	-	FC	-	-	-	192	-	-
1969-S611	2440530.40	1969 Nov 4 2130	Nike Javelin	-	-	PCA69 BRL 6	-	-	-	FC	-	-	-	124	-	-
1969-S613	2440530.44	1969 Nov 4 2238:00	Nike Javelin	-	-	PCA69 BRL 7	-	-	-	FC	-	-	-	125	-	-
1969-S614	2440530.45	1969 Nov 4 2250	Nike Iroquois	-	CRL AH07.893	PCA69 N-5	-	-	-	FC	-	-	-	143	-	-
1969-S619	2440531.37	1969 Nov 5 2049	Nike Iroquois	-	CRL AH07.889	PCA69 N?	-	-	-	FC	-	-	-	122	-	-
1969-S622	2440532.62	1969 Nov 7 0251	Nike Iroquois	-	CRL AH07.892	PCA69 N-6	-	-	-	FC	-	-	-	122	-	-
1969-S630	2440544.40	1969 Nov 18 2132:42	Nike Tomahawk	12	Sandia 152-135	LRL ACS-5	-	-	-	TTR	-	-	-	174	-	-
1969-S723	2440546.35	1969 Nov 20 2019	Nike Cajun	-	-	3-sphere ejection	-	-	-	WS	-	-	-	100?	-	-
1969-S635	2440551.53	1969 Nov 26 0038:37	Nike Cajun	-	Ferdinand 21	Ferdinand 21	-	-	-	AND	-	-	-	107	-	-
1969-S785	2440555.50	1969 Dec?	Nike Hydac	-	-	HAVE HORN 1	-	-	-	NTRURO	-	-	-	100?	-	-
1969-S648	2440560.56	1969 Dec 5 0131	Nike Apache	-	NASA 14.353UG	-	-	-	-	WS	-	-	-	200?	-	-
1969-S649	2440560.90	1969 Dec 5 0930	Nike Iroquois	-	CRL AH07.680	Release	-	-	-	EGL	-	-	-	158	-	-
1969-S650	2440560.92	1969 Dec 5 1000	Nike Iroquois	-	CRL AH07.681	Release	-	-	-	EGL	-	-	-	155	-	-
1969-S651	2440561.00	1969 Dec 5 1156	Nike Iroquois	-	CRL AH07.676	Release	-	-	-	EGL	-	-	-	151	-	-
1969-S656	2440565.69	1969 Dec 10 0431	Nike Iroquois	-	CRL A07.907-1	Polar disturbance	-	-	-	FC	-	-	-	168	-	-
1969-S666	2440567.60	1969 Dec 12 0230	Nike Iroquois	-	CRL AH07.682	Release	-	-	-	EGL	-	-	-	155	-	-
1969-A206	2440568.43	1969 Dec 12 2213	Aerobee 170	-	KP3.26	-	-	-	-	WS	LC35	-	-	1	-	-
1969-S664	2440568.58	1969 Dec 13 0200	Nike Cajun	-	-	3-sphere ejection	-	-	-	WS	-	-	-	100?	-	-
1969-S671	2440569.43	1969 Dec 13 2222	Nike Apache	-	NASA 14.445CM	GCA Release Na	-	-	-	WI	-	-	-	200?	-	-
1969-S672	2440569.52	1969 Dec 14 0030	Nike Apache	-	NASA 14.446CM	GCA Release TMA	-	-	-	WI	-	-	-	217?	-	-
1970-S748	2440586.50	1970 Jan?	Nike Hydac	-	-	HAVE HORN 2	-	-	-	NTRURO	-	-	-	100?	-	-
1970-S49	2440588.78	1970 Jan 2 0642	Nike Apache	-	NASA 14.240II	ISRO 30.01	TERLS-142	-	-	TERLS	-	-	-	125	-	-
1970-S50	2440591.50	1970 Jan 5	Nike Cajun	-	NASA 10.329GM	GSFC Grenade 222 W	-	-	-	WI	-	-	-	100	-	-
1970-S51	2440592.40	1970 Jan 5 2130	Nike Cajun	-	NASA 10.325GM	GSFC Grenade 223 C	-	-	-	FC	-	-	-	95	-	-
1970-S52	2440596.50	1970 Jan 10	Nike Cajun	-	NASA 10.330GM	GSFC Grenade 224 W	-	-	-	WI	-	-	-	103	-	-
1970-S53	2440596.50	1970 Jan 10	Nike Cajun	-	NASA 10.337GM	GSFC Grenade 225 PB	-	-	-	PBA	-	-	-	103	-	-
1970-S55	2440599.73	1970 Jan 13 0532	Nike Tomahawk	12	Sandia 152-137	LRL ROX-3	-	-	-	TTR	-	-	-	180	-	-
1970-S56	2440600.43	1970 Jan 13 2223	Nike Cajun	-	NASA 10.326GM	GSFC Grenade 226 C	-	-	-	FC	-	-	-	126	-	-
1970-A07	2440600.44	1970 Jan 13 2236	Nike Apache	-	NASA 14.459CM	GCA Release Na?	-	-	-	WI	-	-	-	24	-	-
1970-S57	2440600.49	1970 Jan 13 2350:50	Nike Apache	-	NASA 14.384UM	UM Pitot 42	-	-	-	FC	-	-	-	171	-	-
1970-S58	2440601.07	1970 Jan 14 1347	Nike Apache	-	NASA 14.452GM	GSFC Grenade NA3	-	-	-	WI	-	-	-	200?	-	-
1970-S61	2440600.55	1970 Jan 14 0110	Nike Cajun	-	NASA 10.343GM	GCA Release TMA	-	-	-	WI	-	-	-	160	-	-
1970-S62	2440600.57	1970 Jan 14 0135	Nike Cajun	-	NASA 10.333GM	GSFC Grenade 227 C	-	-	-	FC	-	-	-	113	-	-
1970-S63	2440600.62	1970 Jan 14 0300	Nike Apache	-	NASA 14.447CM	GCA Release TMA	-	-	-	WI	-	-	-	197	-	-
1970-S64	2440600.67	1970 Jan 14 0405:30	Nike Tomahawk	-	NASA 18.64UE	UMd Auroral	-	-	-	FC	-	-	-	259	-	-
1970-S66	2440600.71	1970 Jan 14 0500	Nike Apache	-	NASA 14.448CM	GCA Release TMA	-	-	-	WI	-	-	-	204	-	-
1970-S67	2440600.80	1970 Jan 14 0717	Nike Apache	-	NASA 14.449CM	GCA Release TMA	-	-	-	WI	-	-	-	204	-	-
1970-S68	2440600.89	1970 Jan 14 0915	Nike Apache	-	NASA 14.450CM	GCA Release TMA	-	-	-	WI	-	-	-	201	-	-
1970-S69	2440600.98	1970 Jan 14 1135	Nike Apache	-	NASA 14.451CM	GCA Release Na	-	-	-	WI	-	-	-	207	-	-
1970-S60	2440601.22	1970 Jan 14 1723	Nike Apache	-	NASA 14.453GM	GSFC Grenade NA4	-	-	-	WI	-	-	-	200?	-	-
1970-S59	2440601.25	1970 Jan 14 1755	Nike Cajun	-	NASA 10.323GM	GSFC Grenade 228 W	-	-	-	WI	-	-	-	100?	-	-
1970-S71	2440602.74	1970 Jan 16 0540	Nike Tomahawk	-	NASA 18.79GM	Auroral EUV	-	-	-	FC	-	-	-	210	-	-
1970-S75	2440603.63	1970 Jan 17 0303:20	Nike Tomahawk	-	NASA 18.65UE	-	-	-	-	FC	-	-	-	252	-	-
1970-S87	2440616.22	1970 Jan 29 1719	Nike Cajun	-	NASA 10.338GM	GSFC Grenade 229 PB	-	-	-	PBA	-	-	-	91	-	-
1970-M03	2440616.22	1970 Jan 29 1721	Nike Cajun	-	NASA 10.339GM	GSFC Grenade 230 PB	-	-	-	PBA	-	-	-	74	-	-
1970-S94	2440621.07	1970 Feb 3 1344	Nike Cajun	-	NASA 10.340GM	GSFC Grenade 231 PB	-	-	-	PBA	-	-	-	91	-	-
1970-S95	2440621.08	1970 Feb 3 1355	Nike Cajun	-	NASA 10.341GM	GSFC Grenade 232 PB	-	-	-	PBA	-	-	-	87	-	-
1970-S97	2440621.43	1970 Feb 3 2224:33	Nike Tomahawk	-	NASA 18.113IE	Ferdinand 25/Polar 1	-	-	-	AND	-	-	-	283	-	-
1970-S99	2440621.70	1970 Feb 4 0441	Nike Apache	-	NASA 14.441UI	-	-	-	-	FC	-	-	-	141	-	-
1970-S101	2440621.76	1970 Feb 4 0619	Nike Tomahawk	-	NASA 18.100UA	-	-	-	-	FC	-	-	-	310	-	-
1970-S103	2440623.16	1970 Feb 5 1551	Aerobee 170	-	NASA 13.13GT	-	-	-	-	WI	-	-	-	200?	-	-
1970-S104	2440622.60	1970 Feb 5 0221	Nike Tomahawk	-	NASA 18.101UA	-	-	-	-	FC	-	-	-	340	-	-
1970-S111	2440627.73	1970 Feb 10 0525:55	Nike Tomahawk	-	NASA 18.16UE	U Alaska M/DTR	-	-	-	FC	-	-	-	270?	-	-
1970-S112	2440627.73	1970 Feb 10 0527	Nike Apache	-	NASA 14.442UI	-	-	-	-	FC	-	-	-	200?	-	-
1970-S119	2440631.73	1970 Feb 14 0530	Aerobee 170	-	NASA 13.01UG	CAL XR 4	-	-	-	WS	-	-	-	231	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S128	2440636.73	1970 Feb 19 0529	Nike Apache	-	NASA 14.381GE	Auroral particles	-	-	-	FC	-	-	-	200?	-	-
1970-S174	2440645.64	1970 Feb 28 0315	Nike Apache	-	NASA 14.382GE	Auroral particles	-	-	-	FC	-	-	-	200?	-	-
1970-S183	2440647.69	1970 Mar 2 0430	Nike Tomahawk	-	NASA 18.87GE	Dual Ba 1A	-	-	-	BART	-	-	-	270?	-	-
1970-S184	2440647.69	1970 Mar 2 0430	Nike Tomahawk	-	NASA 18.90GE	Dual Ba 1B	-	-	-	PF	LC1	-	-	270?	-	-
1970-S186	2440649.12	1970 Mar 3 1453	Nike Tomahawk	-	NASA 18.108GE	Dual Ba 2B	-	-	-	PF	LC1	-	-	270?	-	-
1970-S189	2440650.10	1970 Mar 4 1430	Nike Tomahawk	-	NASA 18.88GE	Dual Ba 2A	-	-	-	BART	-	-	-	270?	-	-
1970-S190	2440650.11	1970 Mar 4 1441	Nike Tomahawk	-	NASA 18.109GE	Dual Ba 3B	-	-	-	PF	LC1	-	-	270?	-	-
1970-S193	2440651.09	1970 Mar 5 1410	Nike Tomahawk	-	NASA 18.89GE	Dual Ba 3A	-	-	-	BART	-	-	-	270?	-	-
1970-S195	2440651.89	1970 Mar 6 0927	Nike Cajun	-	NASA 10.344GM	Ozone/H2O	-	-	-	WI	-	-	-	100?	-	-
1970-S196	2440652.27	1970 Mar 6 1824:00	Nike Apache	-	NASA 14.426UM	UM Pitot 43	-	-	-	WI	LA5	-	-	162	-	-
1970-S199	2440652.28	1970 Mar 6 1836:30	Nike Apache	-	NASA 14.456CI	Ionospheric/SX	-	-	-	WI	-	-	-	200?	-	-
1970-S203	2440653.16	1970 Mar 7 1545	Nike Apache	-	NASA 14.435UI	Ionospheric	-	-	-	WI	LA2	-	-	188	-	-
1970-M05	2440653.17	1970 Mar 7 1600	Nike Cajun	-	NASA 10.345GM	Ozone/H2O	-	-	-	WI	LA5	-	-	67	-	-
1970-S204	2440653.20	1970 Mar 7 1651	Nike Iroquois	-	CRL A07.015-1	Sphere	-	-	-	CSB	-	-	-	105	-	-
1970-S206	2440653.25	1970 Mar 7 1759:00	Nike Apache	-	NASA 14.427UM	UM Pitot 44	-	-	-	WI	LA5	-	-	171	-	-
1970-S207	2440653.25	1970 Mar 7 1800:00	Nike Tomahawk	-	NASA 18.104GA	UM Thermosphere 14	-	-	-	WI	LA4	-	-	289	-	-
1970-S208	2440653.26	1970 Mar 7 1809	Nike Iroquois	-	CRL A07.024-1	O2-OH/Soft X	-	-	-	CSB	-	-	-	97	-	-
1970-M06	2440653.26	1970 Mar 7 1810	Nike Iroquois	-	CRL A07.016-1	Sphere	-	-	-	CSB	-	-	-	69	-	-
1970-S209	2440653.27	1970 Mar 7 1826:00	Nike Apache	-	NASA 14.428UM	UM Pitot 45	-	-	-	WI	LA5	-	-	176	-	-
1970-S210	2440653.27	1970 Mar 7 1827:00	Nike Tomahawk	-	NASA 18.105GA	UM Thermosphere 15	-	-	-	WI	LA4	-	-	290	-	-
1970-S211	2440653.27	1970 Mar 7 1835:55	Aerobee 170	-	NASA 13.03DS	NRL NE4.238	-	-	-	WI	LA1	-	-	165	-	-
1970-S212	2440653.28	1970 Mar 7 1836:30	Nike Apache	-	NASA 14.457CI	-	-	-	-	WI	LA3	-	-	200?	-	-
1970-S215	2440653.28	1970 Mar 7 1837:10	Nike Apache	-	NASA 14.436UI	-	-	-	-	WI	LA2	-	-	178	-	-
1970-S214	2440653.28	1970 Mar 7 1837:25	Nike Tomahawk	-	NASA 18.106GA	-	-	-	-	WI	LA4	-	-	290?	-	-
1970-M07	2440653.28	1970 Mar 7 1837:30	Nike Iroquois	-	CRL A07.902-9	Mass spectrometer	-	-	-	WI	LA3	-	-	76	-	-
1970-S216	2440653.28	1970 Mar 7 1838:00	Nike Apache	-	NASA 14.437UI	-	-	-	-	WI	LA2	-	-	175	-	-
1970-S217	2440653.28	1970 Mar 7 1839:30	Nike Iroquois	-	CRL A07.902-5	Mass spectrometer	-	-	-	WI	LA3	-	-	113	-	-
1970-M08	2440653.28	1970 Mar 7 1840:30	Nike Cajun	-	NASA 10.346GM	GSFC Ozone?	-	-	-	WI	LA5	-	-	68	-	-
1970-S218	2440653.28	1970 Mar 7 1840:40	Nike Apache	-	NASA 14.438UI	-	-	-	-	WI	LA2	-	-	192	-	-
1970-S201	2440653.28	1970 Mar 7 1841:00	Nike Apache	-	NASA 14.429UM	UM Pitot 46	-	-	-	WI	-	-	-	150?	-	-
1970-S219	2440653.28	1970 Mar 7 1846	Nike Iroquois	-	CRL A07.902-10	NACS Mass spec	-	-	-	WI	LA3	-	-	122	-	-
1970-S226	2440653.31	1970 Mar 7 1925	Nike Iroquois	-	CRL A07.016-2	Sphere	-	-	-	CSB	-	-	-	152	-	-
1970-S228	2440653.32	1970 Mar 7 1944	Nike Iroquois	-	CRL A07.024-2	Composition/Soft X	-	-	-	CSB	-	-	-	99	-	-
1970-S229	2440653.50	1970 Mar 8	Nike Cajun	-	NASA 10.331GM	GSFC Grenade 233 W	-	-	-	WI	LA5	-	-	100?	-	-
1970-S230	2440654.23	1970 Mar 8 1725:00	Nike Apache	-	NASA 14.430UM	UM Pitot 47	-	-	-	WI	-	-	-	167	-	-
1970-S231	2440653.51	1970 Mar 8 0017:36	Nike Tomahawk	-	NASA 18.114IE	Ferdinand 24	-	-	-	AND	-	-	-	215	-	-
1970-S234	2440654.63	1970 Mar 9 0314	Nike Tomahawk	-	CRL AT08.298	B field/particles	-	-	-	FC	-	-	-	298	-	-
1970-S235	2440654.64	1970 Mar 9 0321	Nike Iroquois	-	CRL A07.907-2	E field	-	-	-	FC	-	-	-	158	-	-
1970-S237	2440655.10	1970 Mar 9 1430	Nike Tomahawk	-	NASA 18.97GI	ISRO 17.01	TERLS-156	-	-	TERLS	-	-	-	298	-	-
1970-S238	2440655.32	1970 Mar 9 1938	Nike Tomahawk	-	NASA 18.98GI	ISRO 17.02	TERLS-157	-	-	TERLS	-	-	-	296	-	-
1970-S679	2440655.32	1970 Mar 9 1946	Nike Cajun	-	3-Sphere Ejection	-	-	-	-	WS	-	-	-	100?	-	-
1970-S236	2440655.36	1970 Mar 9 2035	Nike Tomahawk	-	NASA 18.99GI	ISRO 17.03	TERLS-158 UCB EUV Phot	-	-	TERLS	-	-	-	264	-	-
1970-S243	2440658.39	1970 Mar 12 2122	Nike Hydac	-	STV 92	-	-	-	-	WS	LC33 L-361L	-	-	222	-	-
1970-S251	2440664.64	1970 Mar 19 0319	Nike Apache	-	NASA 14.425GI	ISRO 10.33/17.04	TERLS-170	-	-	TERLS	-	-	-	200?	-	-
1970-S255	2440664.71	1970 Mar 19 0509	Nike Apache	-	NASA 14.424GI	ISRO 10.34/17.05	TERLS-171	-	-	TERLS	-	-	-	97	-	-
1970-S257	2440664.92	1970 Mar 19 1001	Nike Apache	-	NASA 14.372GI	ISRO 10.35/17.06	TERLS-172	-	-	TERLS	-	-	-	196	-	-
1970-M17	2440666.49	1970 Mar 20 2350	Nike Cajun	-	NASA 10.277NA	-	-	-	-	WS	-	-	-	56	-	-
1970-S260	2440669.46	1970 Mar 23 2258:24	Nike Cajun	-	Ferdinand 22	Ferdinand 22	-	-	-	AND	-	-	-	103	-	-
1970-S263	2440670.79	1970 Mar 25 0701	Nike Iroquois	-	CRL A07.907-3	E field	-	-	-	FC	-	-	-	169	-	-
1970-S265	2440671.64	1970 Mar 26 0317	Nike Iroquois	-	CRL A07.907-4	E field	-	-	-	FC	-	-	-	101	-	-
1970-S267	2440671.70	1970 Mar 26 0445	Nike Tomahawk	-	NASA 18.82UA	Airglow	-	-	-	FC	-	-	-	236	-	-
1970-S268	2440672.73	1970 Mar 27 0525	Nike Apache	-	NASA 14.405IE/II	ISRO 10.36	TERLS-175	-	-	TERLS	-	-	-	195	-	-
1970-S269	2440673.16	1970 Mar 27 1550	Nike Cajun	-	Rehbar 21	-	-	-	-	SOM	-	-	-	100?	-	-
1970-S271	2440674.16	1970 Mar 28 1545	Nike Cajun	-	Rehbar 22	-	-	-	-	SOM	-	-	-	141	-	-
1970-S281	2440679.88	1970 Apr 3 0903	Nike Hydac	-	GI-SF6	Na hexaflouride	-	-	-	PF	-	-	-	150?	-	-
1970-S669	2440685.50	1970 Apr 9	Nike Cajun	-	-	3-sphere ejection	-	-	-	WS	-	-	-	100?	-	-
1970-S671	2440686.26	1970 Apr 9 1816	Nike Javelin	-	-	ECM Round	-	-	-	WS	-	-	-	100?	-	-
1970-S295	2440687.66	1970 Apr 11 0345	Nike Tomahawk	-	NASA 18.91UE	-	-	-	-	FC	-	-	-	266	-	-
1970-M20	2440689.30	1970 Apr 12 1914	Nike Iroquois	-	CRL A07.913-3	Sphere	-	-	-	EGL	-	-	-	79	-	-
1970-S299	2440691.15	1970 Apr 14 1530	Aerobee 350	-	NASA 17.05GT-GG	-	-	-	-	WS	-	-	-	88	-	-
1970-S304	2440692.78	1970 Apr 16 0640	Nike Apache	-	NASA 14.443UI	-	-	-	-	FC	-	-	-	136	-	-
1970-S339	2440712.08	1970 May 5 1400	Nike Hydac	-	STV-94	-	-	-	-	WS	LC33 L-361L	-	-	196	-	-
1970-S338	2440712.21	1970 May 5 1700	Nike Hydac	-	STV-93	-	-	-	-	WS	LC33 L-361R	-	-	214	-	-
1970-S343	2440711.77	1970 May 5 0626	Nike Tomahawk	12	Sandia 152-136	LRL ACS-1B [or 0822]	-	-	-	KAU	LC14	-	-	144	-	-
1970-S345	2440714.55	1970 May 8 0105	Nike Iroquois	-	CRL AH07.677	Release	-	-	-	EGL	-	-	-	159	-	-
1970-S346	2440714.61	1970 May 8 0235	Nike Iroquois	-	CRL A07.901-2	Release	-	-	-	EGL	-	-	-	153	-	-
1970-S348	2440714.93	1970 May 8 1015	Aerobee 170	-	NASA 13.06UG	MIT-8	-	-	-	WS	-	-	-	146	-	-
1970-S361	2440727.55	1970 May 21 0108	Nike Iroquois	-	CRL A07.901-4	Release	-	-	-	EGL	-	-	-	130	-	-
1970-S364	2440727.91	1970 May 21 0945	Nike Iroquois	-	CRL A07.901-3	Release	-	-	-	EGL	-	-	-	153	-	-
1970-S365	2440727.92	1970 May 21 1006	Nike Iroquois	-	CRL A07.901-1	Release	-	-	-	EGL	-	-	-	163	-	-
1970-S367	2440728.97	1970 May 22 1112	Nike Iroquois	-	CRL A07.901-5	Release	-	-	-	EGL	-	-	-	142	-	-
1970-S684	2440732.94	1970 May 26 1030	Nike Cajun	?	Sandia 154-200	Falling Sphere	-	-	-	KAU	-	-	-	140	-	-
1970-S685	2440733.86	1970 May 27 0845	Nike Tomahawk	?	Sandia 152-119	-	-	-	-	KAU	-	-	-	301	-	-
1970-S686	2440743.87	1970 Jun 6 0853	Nike Cajun	?	Sandia 154-201	Falling Sphere	-	-	-	KAU	-	-	-	140	-	-
1970-S687	2440744.70	1970 Jun 7 0453	Nike Tomahawk	?	Sandia 152-118	-	-	-	-	KAU	-	-	-	300	-	-
1970-S401	2440760.17	1970 Jun 22 1600	Nike Cajun	-	NASA 10.332GM	GSFC Grenade 234 W	-	-	-	WI	-	-	-	132	-	-
1970-S405	2440763.15	1970 Jun 25 1537	Nike Cajun	-	NASA 10.342GM	GSFC Grenade 235 W	-	-	-	WI	-	-	-	84	-	-
1970-S408	2440764.70	1970 Jun 27 0455	Aerobee 170	-	NASA 13.12CG	ASE 1D-XRT Cyg Loop	-	-	-	WS	-	-	-	175	-	-
1970-S409	2440764.86	1970 Jun 27 0845	Nike Apache	-	NASA 14.413UG	-	-	-	-	WS	-	-	-	200?	-	-
1970-S435	2440784.17	1970 Jul 16 1600	Nike Cajun	-	NASA 10.320UI	-	-	-	-	WI	-	-	-	143	-	-
1970-S670	2440791.23	1970 Jul 23 1730	Nike Cajun	-	3-Sphere Ejection	-	-	-	-	WS	-	-	-	100?	-	-
1970-S451	2440794.77	1970 Jul 27 0635	Aerobee 170	-	CRL A04.004-1	MAP-II/LO STAR II	-	-	-	WS	-	-	-	125	-	-
1970-S455	2440798.03	1970 Jul 30 1246	Nike Tomahawk	-	NASA 18.72UE	-	-	-	-	WI	-	-	-	270?	-	-
1970-S462	2440802.17	1970 Aug 3 1609:00	Nike Apache	-	NASA 14.466UM	UM Pitot 48	-	-	-	WI	-	-	-	170	-	-
1970-S473	2440806.51	1970 Aug 8 0012	Nike Apache	-	NASA 14.462DA	RTG SNA6/1 NLC	-	-	-	ESR	N	-	-	99	-	-
1970-S472	2440806.53	1970 Aug 8 0048:10	Nike Apache	-	NASA 14.454UA	RTG SNA5/1 Pandora M	-	-	-	ESR	N	-	-	128	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S475	2440806.56	1970 Aug 8 0132	Nike Apache	-	NASA 14.463DA	RTG SNA6/2 NLC	-	-	-	ESR	N	-	-	95	-	-
1970-S474	2440806.62	1970 Aug 8 0254	Nike Apache	-	NASA 14.455UA	RTG SNA5/2 Pandora N	-	-	-	ESR	N	-	-	133	-	-
1970-S457	2440809.22	1970 Aug 10 1719	Nike Hydac	-	STV 95	-	-	-	-	WS	LC33 L-361L	-	-	209	-	-
1970-S482	2440811.29	1970 Aug 12 1852	Aerobee 170	-	CRL A04.002-1	EUV	-	-	-	WS	-	-	-	246	-	-
1970-S483	2440812.19	1970 Aug 13 1631	Aerobee 350	-	NASA 17.06UE	ECHO I	-	-	-	WI	-	-	-	350	-	-
1970-S664	2440820.15	1970 Aug 21 1539:00	Nike Apache	-	NASA 14.431UM	UM Pitot 49	-	-	-	WI	-	-	-	197	-	-
1970-S491	2440820.71	1970 Aug 22 0458	Aerobee 170	-	NASA 13.17DG	-	-	-	-	WS	-	-	-	200?	-	-
1970-S497	2440826.70	1970 Aug 28 0443	Nike Apache	-	NASA 14.414UG	-	-	-	-	WS	-	-	-	200?	-	-
1970-S495	2440827.67	1970 Aug 29 0400	Nike Hydac	-	STV 96	-	-	-	-	WS	LC33 L-361	-	-	176	-	-
1970-S522	2440847.15	1970 Sep 17 1542	Nike Cajun	-	NASA 10.324GM	GSFC Grenade 236 W	-	-	-	WI	-	-	-	127	-	-
1970-S523	2440847.17	1970 Sep 17 1558:00	Nike Apache	-	NASA 14.385UM	UM Pitot 50	-	-	-	WI	-	-	-	156	-	-
1970-S528	2440851.18	1970 Sep 21 1614:00	Nike Cajun	-	NASA 10.327UM	UM Pitot 51	-	-	-	WI	-	-	-	145	-	-
1970-S529	2440851.67	1970 Sep 22 0400	Nike Apache	-	NASA 14.464UA	-	-	-	-	WS	-	-	-	10?	-	-
1970-S530	2440851.69	1970 Sep 22 0430	Aerobee 170	-	NASA 13.07GG	-	-	-	-	WS	-	-	-	146	-	-
1970-S538	2440857.88	1970 Sep 28 0901	Aerobee 170	-	NASA 13.26CG	-	-	-	-	WS	-	-	-	200?	-	-
1970-S546	2440861.07	1970 Oct 1 1346:12	Nike Apache	-	N-NA-30	DLR N-NA-30	-	-	-	CLBI	-	-	-	200?	-	-
1970-S554	2440866.07	1970 Oct 6 1336:25	Nike Apache	-	N-NA-31	DLR N-NA-31	-	-	-	CLBI	-	-	-	200?	-	-
1970-S680	2440865.58	1970 Oct 6 0200	Nike Cajun	-	-	Chemical Trail	-	-	-	WS	-	-	-	100?	-	-
1970-S681	2440865.67	1970 Oct 6 0400	Nike Cajun	-	-	Chemical Trail	-	-	-	WS	-	-	-	100?	-	-
1970-S678	2440866.58	1970 Oct 7 0200	Nike Cajun	-	-	Chemical Trail	-	-	-	WS	-	-	-	100?	-	-
1970-A171	2440866.67	1970 Oct 7 0400	Nike Cajun	-	-	Chemical Trail	-	-	-	WS	-	-	-	1?	-	-
1970-S557	2440866.91	1970 Oct 7 0948	Nike Tomahawk	-	NASA 18.54NE	Ba release test	-	-	-	WI	-	-	-	270?	-	-
1970-S561	2440868.06	1970 Oct 8 1329:19	Nike Apache	-	N-NA-32	DLR N-NA-32	-	-	-	CLBI	-	-	-	200?	-	-
1970-S562	2440868.11	1970 Oct 8 1442:38	Nike Apache	-	N-NA-33	DLR N-NA-33	-	-	-	CLBI	-	-	-	200?	-	-
1970-S564	2440872.12	1970 Oct 12 1458:00	Nike Apache	-	N-NA-34	DLR N-NA-34	-	-	-	CLBI	-	-	-	200?	-	-
1970-S568	2440874.20	1970 Oct 14 1641	Nike Cajun	-	NASA 10.276AM	-	-	-	-	WI	-	-	-	116	-	-
1970-S750	2440881.45	1970 Oct 21 2241	Nike Hydac	-	-	-	-	-	-	EGL	-	-	-	100?	-	-
1970-S579	2440882.10	1970 Oct 22 1424:26	Nike Apache	-	N-NA-35	DLR N-NA-35	-	-	-	CLBI	-	-	-	200?	-	-
1979-S751	2440882.27	1970 Oct 22 1830	Nike Apache	-	-	-	-	-	-	EGL	-	-	-	100?	-	-
1970-S589	2440890.94	1970 Oct 31 1032	Aerobee 170	-	NASA 13.41GG-UG	UVT-SDGS 3	-	-	-	WS	-	-	-	200?	-	-
1970-S600	2440900.96	1970 Nov 10 1109	Nike Tomahawk	-	NASA 18.92UE	-	-	-	-	PF	-	-	-	270?	-	-
1970-S606	2440904.43	1970 Nov 13 2219:41	Nike Tomahawk	-	NASA 18.115IE	Ferdinand 23	-	-	-	AND	-	-	-	214	-	-
1970-S726	2440907.47	1970 Nov 16 2319	Nike Iroquois	-	-	ALADDIN test?	-	-	-	EGL	-	-	-	150?	-	-
1970-S682	2440908.43	1970 Nov 17 2220	Nike Apache	-	-	-	-	-	-	EGL	-	-	-	150?	-	-
1970-S608	2440909.02	1970 Nov 18 1230	Nike Tomahawk	-	NASA 18.93UE	-	-	-	-	PF	-	-	-	270?	-	-
1970-S611	2440911.29	1970 Nov 20 1900	Nike Apache	-	NASA 14.458UA	-	-	-	-	WS	-	-	-	10?	-	-
1970-S612	2440911.47	1970 Nov 20 2319	Nike Iroquois	-	CRL A07.901-6	ALADDIN Release	-	-	-	EGL	-	-	-	150	-	-
1970-S613	2440911.47	1970 Nov 20 2319	Nike Iroquois	-	CRL A07.917-1	ALADDIN Release	-	-	-	EGL	-	-	-	170	-	-
1970-S614	2440911.47	1970 Nov 20 2323	Nike Iroquois	-	CRL AT07.895	ALADDIN NACS Mass sp	-	-	-	EGL	-	-	-	121	-	-
1970-S615	2440911.47	1970 Nov 20 2323	Nike Iroquois	-	CRL AT07.896	ALADDIN Mass sp	-	-	-	EGL	-	-	-	130	-	-
1970-S616	2440911.48	1970 Nov 20 2326	Nike Iroquois	-	CRL A07.917-3	ALADDIN Release	-	-	-	EGL	-	-	-	166	-	-
1970-S617	2440911.48	1970 Nov 20 2326	Nike Iroquois	-	CRL A07.917-2	ALADDIN Release	-	-	-	EGL	-	-	-	158	-	-
1970-S618	2440911.48	1970 Nov 20 2329:00	Nike Apache	-	NASA 14.460UM	UM Pitot 52	-	-	-	EGL	-	-	-	181	-	-
1970-S632	2440922.86	1970 Dec 2 0832	Aerobee 170	-	CRL A04.004-3	IPRCE-1/HI STAR Test	-	-	-	WS	-	-	-	190	-	-
1970-S638	2440931.19	1970 Dec 10 1627	Nike Tomahawk	-	DLR W-NT-36	Biosonde 1	-	-	-	WI	-	-	-	257	-	-
1970-S645	2440935.63	1970 Dec 15 0308	Nike Apache	-	NASA 14.470CM	GCA Release TMA	-	-	-	WI	-	-	-	208	-	-
1970-S646	2440935.72	1970 Dec 15 0518	Nike Apache	-	NASA 14.471CM	GCA Release TMA	-	-	-	WI	-	-	-	214	-	-
1970-S647	2440935.79	1970 Dec 15 0700	Nike Apache	-	NASA 14.472CM	GCA Release TMA	-	-	-	WI	-	-	-	213	-	-
1970-S648	2440935.88	1970 Dec 15 0904	Nike Apache	-	NASA 14.473CM	GCA Release TMA	-	-	-	WI	-	-	-	195	-	-
1970-S649	2440935.98	1970 Dec 15 1127	Nike Apache	-	NASA 14.474CM	GCA Release Na-Li	-	-	-	WI	-	-	-	215	-	-
1970-S651	2440937.19	1970 Dec 16 1639	Nike Tomahawk	-	DLR W-NT-37	Biosonde 2	-	-	-	WI	-	-	-	246	-	-
1970-S653	2440938.31	1970 Dec 17 1923	Nike Apache	-	NASA 14.418UA	-	-	-	-	WS	-	-	-	200?	-	-
1970-S655	2440939.63	1970 Dec 19 0310:02	Aerobee 170	-	NASA 13.11UG	-	-	-	-	WS	-	-	-	160?	-	-
1971-S04	2440951.50	1971 Jan	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S05	2440951.50	1971 Jan	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S50	2440959.33	1971 Jan 7 2001	Nike Cajun	-	NASA 10.365GM	GSFC Grenade 237 PB	-	-	-	PBA	-	-	-	122	-	-
1971-S51	2440959.34	1971 Jan 7 2015	Nike Cajun	-	NASA 10.347GM	GSFC Grenade 238 C	-	-	-	FC	-	-	-	123	-	-
1971-S52	2440959.35	1971 Jan 7 2030	Nike Cajun	-	NASA 10.372GM	GSFC Grenade 239 W	-	-	-	WI	-	-	-	131	-	-
1971-S53	2440960.40	1971 Jan 8 2141	Nike Iroquois	-	CRL A07.016-3	Sphere	-	-	-	WS	-	-	-	278	-	-
1971-S55	2440960.44	1971 Jan 8 2231	Nike Iroquois	-	CRL A07.015-2	Sphere	-	-	-	WS	-	-	-	276	-	-
1971-S59	2440963.83	1971 Jan 12 0750	Nike Cajun	-	NASA 10.366GM	GSFC Grenade 240 PB	-	-	-	PBA	-	-	-	116	-	-
1971-S60	2440964.37	1971 Jan 12 2053	Nike Cajun	-	NASA 10.373GM	GSFC Grenade 241 W	-	-	-	WI	-	-	-	133	-	-
1971-S61	2440964.60	1971 Jan 13 0230	Nike Cajun	-	NASA 10.279NA	-	-	-	-	WS	-	-	-	100?	-	-
1971-S62	2440965.17	1971 Jan 13 1600	Nike Cajun	-	NASA 10.369GM	GSFC Grenade 242 C	-	-	-	FC	-	-	-	122	-	-
1971-S64	2440967.35	1971 Jan 15 2030:00	Nike Tomahawk	-	MUMP 10	-	-	-	-	WI	-	-	-	289	-	-
1971-S65	2440967.54	1971 Jan 16 0055:00	Nike Tomahawk	-	MUMP-9	MUMP 9	-	-	-	WI	-	-	-	297	-	-
1971-S70	2440969.15	1971 Jan 17 1533:00	Nike Tomahawk	-	DLR A-NT-39	MPE Ba/Brigitte	-	-	-	AND	-	-	-	328	-	-
1971-S79	2440974.35	1971 Jan 22 2022:42	Nike Tomahawk	-	NASA 18.116IE	Ferdinand 26/Polar 2	-	-	-	AND	-	-	-	253	-	-
1971-S85	2440976.85	1971 Jan 25 0819	Nike Apache	-	NASA 14.324GE	PCA particle spectra	-	-	-	FC	-	-	-	160	-	-
1971-S88	2440977.10	1971 Jan 25 1426	Aerobee 170	-	NASA 13.46UA	JHU Airglow 10	-	-	-	WS	-	-	-	245	-	-
1971-S89	2440977.13	1971 Jan 25 1512	Nike Apache	-	NASA 14.432GE	PCA particle spectra	-	-	-	FC	-	-	-	160	-	-
1971-S98	2440979.72	1971 Jan 28 0510	Nike Apache	-	NASA 14.409II	ISRO 10.37	TERLS-280	-	-	TERLS	-	-	-	163	-	-
1971-S99	2440979.74	1971 Jan 28 0540	Nike Apache	-	NASA 14.410II	ISRO 10.38	TERLS-281	-	-	TERLS	-	-	-	189	-	-
1971-S100	2440980.16	1971 Jan 28 1555:00	Nike Tomahawk	-	DLR A-NT-38	MPE Ba/Erika	-	-	-	AND	-	-	-	276	-	-
1971-S104	2440981.21	1971 Jan 29 1703	Nike Apache	-	NASA 14.167GI	-	-	-	-	KEW	LP3	-	-	132	-	-
1971-S106	2440983.08	1971 Jan 31 1355	Nike Apache	-	NASA 14.373GI	-	-	-	-	KEW	LP3	-	-	185	-	-
1971-S703	2440985.20	1971 Feb 2 1652	Nike Tomahawk	-	-	-	-	-	-	EGL	-	-	-	150?	-	-
1971-S120	2440991.08	1971 Feb 8 1356	Aerobee 170	-	NASA 13.51UA	-	-	-	-	WS	-	-	-	265	-	-
1971-S122	2440996.85	1971 Feb 14 0817	Nike Tomahawk	-	NASA 18.110UE	-	-	-	-	PF	-	-	-	210?	-	-
1971-S126	2441004.53	1971 Feb 22 0043	Aerobee 350	-	NASA 17.09UG	CAL XR 6 Polarimeter	-	-	-	WI	-	-	-	196	-	-
1971-S135	2441010.50	1971 Mar	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S136	2441010.50	1971 Mar	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S138	2441011.89	1971 Mar 1 0915	Aerobee 170	-	NASA 13.22UG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S147	2441016.08	1971 Mar 5 1400	Nike Cajun	-	NASA 12.19GM	Range Test	-	-	-	CSG	CECLES	-	-	100?	-	-
1971-S148	2441021.23	1971 Mar 10 1738	Nike Cajun	-	NASA 10.382GM	GSFC Grenade 243 W	-	-	-	WI	-	-	-	113	-	-
1971-S149	2441021.25	1971 Mar 10 1759:00	Nike Apache	-	NASA 14.478UM	UM Pitot 53	-	-	-	WI	-	-	-	179	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S150	2441021.27	1971 Mar 10 1826:00	Nike Apache	-	NASA 14.479UM	UM Pitot 54	-	-	-	WI	-	-	-	181	-	-
1971-S151	2441021.28	1971 Mar 10 1841:00	Nike Apache	-	NASA 14.480UM	UM Pitot 55	-	-	-	WI	-	-	-	171	-	-
1971-S152	2441021.30	1971 Mar 10 1911	Nike Cajun	-	NASA 10.383GM	GSFC Grenade 244 W	-	-	-	WI	-	-	-	113	-	-
1971-S155	2441021.94	1971 Mar 11 1037	Nike Tomahawk	-	Caribou V	-	-	-	-	PF	-	-	-	270?	-	-
1971-S156	2441022.68	1971 Mar 12 0413	Nike Iroquois	-	CRL A07.015-3	Sphere	-	-	-	WS	-	-	-	280	-	-
1971-S157	2441022.79	1971 Mar 12 0655	Nike Iroquois	-	CRL A07.913-3	Sphere	-	-	-	WS	-	-	-	283	-	-
1971-S160	2441023.53	1971 Mar 13 0050	Nike Apache	-	NASA 14.388UA	-	-	-	-	WS	-	-	-	200?	-	-
1971-S164	2441026.22	1971 Mar 15 1719	Nike Tomahawk	-	NASA 18.126GE	-	-	-	-	FXM	RAG	-	-	315	-	-
1971-S165	2441025.50	1971 Mar 15	Nike Tomahawk	-	NASA 18.122GE	-	-	-	-	CP	RAG	-	-	270?	-	-
1971-M03	2441025.75	1971 Mar 15 0601	Nike Cajun	-	NASA 10.375GM	GSFC Ozone	-	-	-	CSG	ALFS	-	-	73	-	-
1971-S170	2441026.88	1971 Mar 16 0905	Nike Tomahawk	-	NASA 18.14UE	-	-	-	-	PF	-	-	-	270?	-	-
1971-M04	2441027.05	1971 Mar 16 1316	Nike Cajun	-	NASA 10.376GM	GSFC Ozone	-	-	-	CSG	ALFS	-	-	76	-	-
1971-S171	2441027.29	1971 Mar 16 1900	Aerobee 170	-	CRL A04.002-2	EUV	-	-	-	WS	-	-	-	270	-	-
1971-S173	2441027.96	1971 Mar 17 1057	Nike Tomahawk	-	NASA 18.95UA	-	-	-	-	PF	-	-	-	270?	-	-
1971-S175	2441029.21	1971 Mar 18 1700	Nike Tomahawk	-	NASA 18.127GE	-	-	-	-	FXM	RAG	-	-	318	-	-
1971-S177	2441029.32	1971 Mar 18 1939	Nike Cajun	-	NASA 10.380GM	GSFC Grenade 245 CSG	-	-	-	CSG	ALFS	-	-	125	-	-
1971-S178	2441029.50	1971 Mar 19	Nike Tomahawk	-	NASA 18.129GE	-	-	-	-	FXM	RAG	-	-	250	-	-
1971-S179	2441029.50	1971 Mar 19	Nike Tomahawk	-	NASA 18.123GE	-	-	-	-	FXM	RAG	-	-	270?	-	-
1971-S186	2441030.00	1971 Mar 19 1205	Nike Tomahawk	-	NASA 18.94UA	-	-	-	-	PF	-	-	-	270?	-	-
1971-S187	2441030.03	1971 Mar 19 1238	Nike Tomahawk	-	-	-	-	-	-	PF	-	-	-	270?	-	-
1971-S188	2441030.50	1971 Mar 20	Nike Tomahawk	-	NASA 18.124GE	-	-	-	-	FXM	RAG	-	-	270?	-	-
1971-S189	2441030.73	1971 Mar 20 0530	Aerobee 170	-	NASA 13.21UG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S190	2441030.74	1971 Mar 20 0542:41	Nike Tomahawk	-	CRL A08.019-1	-	-	-	-	FC	-	-	-	336	-	-
1971-S191	2441030.74	1971 Mar 20 0544:01	Nike Iroquois	-	CRL A07.019-2	-	-	-	-	FC	-	-	-	164	-	-
1971-S193	2441030.84	1971 Mar 20 0815	Nike Tomahawk	-	NASA 18.17UE	-	-	-	-	PF	-	-	-	270?	-	-
1971-S194	2441031.50	1971 Mar 21	Nike Tomahawk	-	NASA 18.125GE	-	-	-	-	FXM	RAG	-	-	270?	-	-
1971-S196	2441033.20	1971 Mar 22 1650	Nike Tomahawk	-	NASA 18.128GE	-	-	-	-	FXM	RAG	-	-	265	-	-
1971-S650	2441036.20	1971 Mar 25 1647	Nike Cajun	-	Sphere Ejection	-	-	-	-	WS	-	-	-	100?	-	-
1971-S209	2441038.02	1971 Mar 27 1226	Nike Tomahawk	-	-	-	-	-	-	PF	-	-	-	270?	-	-
1971-S222	2441041.83	1971 Mar 31 0751	Nike Tomahawk	-	NASA 18.130CE	-	-	-	-	FC	-	-	-	298?	-	-
1971-S225	2441044.91	1971 Apr 3 0950	Aerobee 170	-	CRL A04.004-2	HI STAR 1	-	-	-	WS	LC36	-	-	158	-	-
1971-S237	2441061.06	1971 Apr 19 1325	Nike Apache	-	NASA 14.406IA	ISRO 10.41	TERLS-303	-	-	TERLS	-	-	-	198	-	-
1971-S246	2441064.55	1971 Apr 23 0118	Nike Apache	-	NASA 14.465UA	-	-	-	-	WS	-	-	-	200?	-	-
1971-S247	2441064.57	1971 Apr 23 0147:35	Nike Apache	-	NASA 14.467UA	MPIK Dust	-	-	-	WS	-	-	-	124	-	-
1971-S249	2441066.75	1971 Apr 25 0600	Nike Apache	-	NASA 14.407II/IE	ISRO 10.40/20.11	TERLS-304	-	-	TERLS	-	-	-	160	-	-
1971-S250	2441067.06	1971 Apr 25 1325	Nike Apache	-	NASA 14.408IA	ISRO 10.39	TERLS-305	-	-	TERLS	-	-	-	1?	-	-
1971-S252	2441067.50	1971 Apr 26	Nike Cajun	-	NASA 10.387II	-	-	-	-	ELAR	-	-	-	100?	-	-
1971-S253	2441067.50	1971 Apr 26	Nike Cajun	-	NASA 10.388II	-	-	-	-	ELAR	-	-	-	100?	-	-
1971-S254	2441068.32	1971 Apr 26 1934	Nike Cajun	-	NASA 10.386II	-	-	-	-	ELAR	-	-	-	100?	-	-
1971-S256	2441068.43	1971 Apr 26 2215	Nike Cajun	-	NASA 10.319II	INTA NC-7101	-	-	-	ELAR	-	-	-	154	-	-
1971-S261	2441071.19	1971 Apr 29 1632	Aerobee 170	-	NASA 13.14CS	-	-	-	-	WS	-	-	-	213	-	-
1971-S262	2441071.76	1971 Apr 30 0608	Nike Apache	-	NASA 14.411II	ISRO 10.42/20.12	TERLS-306	-	-	TERLS	-	-	-	171	-	-
1971-S266	2441072.90	1971 May 1 0935	Aerobee 170	-	NASA 13.36UG	MIT-9	-	-	-	WS	-	-	-	200?	-	-
1971-S268	2441077.55	1971 May 6 0116	Nike Iroquois	-	CRL A07.902-7	Mass spectrometer	-	-	-	EGL	-	-	-	120	-	-
1971-S270	2441080.18	1971 May 8 1615	Nike Iroquois	-	CRL A07.902-8	Mass spectrometer	-	-	-	EGL	-	-	-	135	-	-
1971-S278	2441083.70	1971 May 12 0445	Nike Cajun	-	NASA 10.280NA	-	-	-	-	WS	-	-	-	100?	-	-
1971-S279	2441084.55	1971 May 13 0110	Nike Cajun	-	NASA 10.278NA	-	-	-	-	WS	-	-	-	100?	-	-
1971-S679	2441087.38	1971 May 15 2102	Nike Iroquois	-	-	TMA release	[dup of KAY?]	-	-	EGL	-	-	-	150?	-	-
1971-S283	2441088.83	1971 May 17 0802:00	Nike Iroquois	?	-	KAY	-	-	-	EGL	-	-	-	152	-	-
1971-S284	2441088.83	1971 May 17 0802:00	Nike Iroquois	?	-	LYNN	-	-	-	EGL	-	-	-	117	-	-
1971-S286	2441089.52	1971 May 18 0024	Nike Iroquois	-	CRL A07.913-5	Sphere	-	-	-	EGL	-	-	-	145	-	-
1971-S287	2441089.55	1971 May 18 0105	Nike Iroquois	-	CRL A07.917-5	Release	-	-	-	EGL	-	-	-	180	-	-
1971-S288	2441089.55	1971 May 18 0108	Nike Iroquois	-	CRL A07.918-2	Release	-	-	-	EGL	-	-	-	150	-	-
1971-S295	2441089.59	1971 May 18 0206	Nike Iroquois	-	CRL A07.921-1	Sphere	-	-	-	EGL	-	-	-	148	-	-
1971-S289	2441089.60	1971 May 18 0221	Nike Iroquois	-	CRL A07.015-4	Sphere	-	-	-	EGL	-	-	-	156	-	-
1971-S290	2441089.61	1971 May 18 0241	Nike Tomahawk	-	CRL A08.919-2	Release	-	-	-	EGL	-	-	-	203	-	-
1971-S291	2441089.63	1971 May 18 0305	Nike Iroquois	-	CRL A07.918-4	Release	-	-	-	EGL	-	-	-	161	-	-
1971-S293	2441089.92	1971 May 18 1009	Nike Iroquois	-	CRL A07.917-6	Release	-	-	-	EGL	-	-	-	153	-	-
1971-S294	2441090.55	1971 May 19 0114	Nike Iroquois	-	CRL A07.918-3	NO Release	-	-	-	EGL	-	-	-	145	-	-
1971-S298	2441092.55	1971 May 21 0115	Nike Iroquois	-	CRL A07.917-4	Release	-	-	-	EGL	-	-	-	145	-	-
1971-S654	2441092.25	1971 May 20 1800	Nike Hydac	-	BE-01 IED	-	-	-	-	WS	-	-	-	150?	-	-
1971-S301	2441096.90	1971 May 25 0937:00	Nike Tomahawk	12	Sandia 152-171	LRL ACS-1D	-	-	-	KAU	LC10	-	-	141	-	-
1971-S304	2441097.92	1971 May 26 1010	Nike Tomahawk	-	-	LEINAX I	-	-	-	KAU	-	-	-	209	-	-
1971-S634	2441098.16	1971 May 26 1556:10	Nike Tomahawk	12	Sandia 152-?	NO density	-	-	-	KAU	-	-	-	135	-	-
1971-S306	2441098.48	1971 May 26 2331	Nike Cajun	-	INTA NC-7102	-	-	-	-	ELAR	-	-	-	145	-	-
1971-S308	2441098.57	1971 May 27 0141	Nike Cajun	-	INTA NC-7103	-	-	-	-	ELAR	-	-	-	152	-	-
1971-S311	2441099.62	1971 May 28 0252	Nike Cajun	-	INTA NC-7104	-	-	-	-	ELAR	-	-	-	160	-	-
1971-S326	2441113.47	1971 Jun 10 2310	Aerobee 350	-	NASA 17.11UA	JHU Airglow 11/S169	-	-	-	WI	-	-	-	328	-	-
1971-S338	2441126.74	1971 Jun 24 0550	Aerobee 350	-	NASA 17.08CG	LPARL XRT	-	-	-	WS	-	-	-	300?	-	-
1971-S339	2441127.12	1971 Jun 24 1500	Nike Cajun	-	NASA 10.367GM	GSFC Grenade 246 PB	-	-	-	PBA	-	-	-	111	-	-
1971-S340	2441127.13	1971 Jun 24 1510	Nike Cajun	-	NASA 10.371GM	GSFC Grenade 247 W	-	-	-	WI	-	-	-	114	-	-
1971-S347	2441130.13	1971 Jun 27 1507	Nike Cajun	-	NASA 10.334GM	GSFC Grenade 248 C	-	-	-	FC	-	-	-	124	-	-
1971-S349	2441131.88	1971 Jun 29 0910	Aerobee 170	-	CRL A04.004-4	HI STAR 2	-	-	-	WS	LC36	-	-	156	-	-
1971-S351	2441131.97	1971 Jun 29 1112	Aerobee 170	-	CRL A04.116-1	CHASER 1	-	-	-	VS	PALC-C	-	-	161	-	-
1971-S354	2441135.11	1971 Jul 2 1437	Nike Cajun	-	NASA 10.328GM	GSFC Grenade 249 C	-	-	-	FC	-	-	-	122	-	-
1971-S355	2441135.11	1971 Jul 2 1442	Nike Cajun	-	NASA 10.335GM	GSFC Grenade 250 PB	-	-	-	PBA	-	-	-	100?	-	-
1971-S357	2441135.33	1971 Jul 2 1959	Nike Cajun	-	NASA 10.368GM	GSFC Grenade 251 PB	-	-	-	PBA	-	-	-	95	-	-
1971-S358	2441135.34	1971 Jul 2 2005	Nike Cajun	-	NASA 10.336GM	GSFC Grenade 252 C	-	-	-	FC	-	-	-	122	-	-
1971-S360	2441142.32	1971 Jul 9 1943	Aerobee 170B	-	NASA 12.22GT	-	-	-	-	WS	-	-	-	191	-	-
1971-S362	2441145.13	1971 Jul 12 1506	Nike Cajun	-	NASA 10.370GM	GSFC Grenade 253 C	-	-	-	FC	-	-	-	125	-	-
1971-S363	2441145.14	1971 Jul 12 1518	Nike Cajun	-	NASA 10.381GM	GSFC Grenade 254 PB	-	-	-	PBA	-	-	-	109	-	-
1971-S364	2441145.17	1971 Jul 12 1606	Nike Cajun	-	NASA 10.374GM	GSFC Grenade 255 W	-	-	-	WI	-	-	-	136	-	-
1971-S365	2441145.62	1971 Jul 13 0250	Nike Tomahawk	-	NASA 18.117UI	-	-	-	-	WI	-	-	-	270?	-	-
1971-S366	2441146.27	1971 Jul 13 1830	Nike Tomahawk	-	NASA 18.118UI	-	-	-	-	WI	-	-	-	270?	-	-
1971-S678	2441149.65	1971 Jul 17 0330	Aerobee 170	-	-	Unknown	-	-	-	WS	-	-	-	200?	-	-
1971-S369	2441149.70	1971 Jul 17 0453	Aerobee 170A	-	KP3.39	IPRCE-2	-	-	-	WS	LC35	-	-	190	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S651	2441154.24	1971 Jul 21 1745	Nike Cajun	-	3-Sphere Ejection 6	-	-	-	-	WS	-	-	-	100?	-	-
1971-S374	2441160.05	1971 Jul 27 1318	Aerobee 170	-	NASA 13.52UA	-	-	-	-	WS	-	-	-	200?	-	-
1971-S378	2441163.53	1971 Jul 31 0044:54	Nike Apache	-	NASA 14.468UA	RTG NNA1 (Pandora P)	-	-	-	ESR	-	-	-	114	-	-
1971-S379	2441164.48	1971 Jul 31 2334:00	Nike Apache	-	NASA 14.469UA	RTG NNA2 (Pandora Q)	-	-	-	ESR	-	-	-	106	-	-
1971-S376	2441163.50	1971 Aug	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S385	2441172.01	1971 Aug 8 1211:46	Nike Cajun	-	Ferdinand 27	Ferdinand 27	-	-	-	AND	-	-	-	99	-	-
1971-S387	2441173.69	1971 Aug 10 0440	Aerobee 170	-	NASA 13.18DG	NRL NB4.243	-	-	-	WS	-	-	-	200?	-	-
1971-S388	2441173.73	1971 Aug 10 0530	Aerobee 170A	-	NASA 13.08GG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S389	2441176.38	1971 Aug 12 2114	Aerobee 170	-	NASA 13.62DS	NRL NE4.251	-	-	-	WS	-	-	-	200?	-	-
1971-S394	2441183.34	1971 Aug 19 2011	Nike Apache	-	NASA 14.491GM	-	-	-	-	WI	-	-	-	171	-	-
1971-S398	2441183.81	1971 Aug 20 0730	Nike Cajun	-	NASA 10.390GM	-	-	-	-	WI	-	-	-	132	-	-
1971-S399	2441183.82	1971 Aug 20 0745	Nike Apache	-	NASA 14.492GM	-	-	-	-	WI	-	-	-	180	-	-
1971-S400	2441183.89	1971 Aug 20 0919	Nike Apache	-	NASA 14.475UI	-	-	-	-	WI	-	-	-	193	-	-
1971-S401	2441183.91	1971 Aug 20 0944	Nike Apache	-	NASA 14.476UI	-	-	-	-	WI	-	-	-	198	-	-
1971-S402	2441183.93	1971 Aug 20 1014	Nike Apache	-	NASA 14.477UI	-	-	-	-	WI	-	-	-	200	-	-
1971-S404	2441184.33	1971 Aug 20 1956	Nike Cajun	-	NASA 10.389GM	-	-	-	-	WI	-	-	-	125	-	-
1971-S405	2441185.61	1971 Aug 22 0234	Nike Apache	-	-	-	-	-	-	SSG	-	-	-	223	-	-
1971-S409	2441187.60	1971 Aug 24 0224	Nike Apache	-	-	-	-	-	-	SSG	-	-	-	223	-	-
1971-S414	2441194.50	1971 Sep	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S415	2441194.50	1971 Sep	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S430	2441196.83	1971 Sep 2 0758	Nike Apache	-	NASA 14.434GE	PCA particles	-	-	-	FC	-	-	-	160	-	-
1971-S652	2441202.33	1971 Sep 7 2000	Nike Cajun	-	3-Sphere Ejection 7	-	-	-	-	WS	-	-	-	100?	-	-
1971-S435	2441202.50	1971 Sep 7 2357	Nike Apache	-	NASA 14.493CA	GCA Release Ba-Li	-	-	-	WI	-	-	-	176	-	-
1971-S449	2441210.91	1971 Sep 16 0956	Nike Apache	-	NASA 14.494CA	GCA Release Ba-Li	-	-	-	WI	-	-	-	175	-	-
1971-S451	2441214.41	1971 Sep 19 2156	Nike Cajun	-	NASA 10.348GM	GSFC Grenade 256 CSG	-	-	-	CSG	ALFS	-	-	125	-	-
1971-S454	2441214.65	1971 Sep 20 0330	Nike Cajun	-	NASA 10.349GM	GSFC Grenade 257 CSG	-	-	-	CSG	ALFS	-	-	122	-	-
1971-S455	2441214.76	1971 Sep 20 0615	Nike Cajun	-	NASA 10.354GM	GSFC Grenade 258 CSG	-	-	-	CSG	ALFS	-	-	115	-	-
1971-S457	2441214.90	1971 Sep 20 0930	Nike Cajun	-	NASA 10.352GM	GSFC Grenade 259 CSG	-	-	-	CSG	ALFS	-	-	117	-	-
1971-S458	2441215.11	1971 Sep 20 1445	Nike Cajun	-	NASA 10.350GM	GSFC Grenade 260 CSG	-	-	-	CSG	ALFS	-	-	118	-	-
1971-S459	2441215.29	1971 Sep 20 1900	Nike Cajun	-	NASA 10.353GM	GSFC Grenade 261 CSG	-	-	-	CSG	ALFS	-	-	116	-	-
1971-S460	2441215.50	1971 Sep 21 0005	Nike Cajun	-	NASA 10.355GM	GSFC Grenade 262 CSG	-	-	-	CSG	ALFS	-	-	117	-	-
1971-S461	2441215.70	1971 Sep 21 0450	Nike Cajun	-	NASA 10.356GM	GSFC Grenade 263 CSG	-	-	-	CSG	ALFS	-	-	114	-	-
1971-S462	2441215.88	1971 Sep 21 0914	Nike Cajun	-	NASA 10.357GM	GSFC Grenade 264 CSG	-	-	-	CSG	ALFS	-	-	118	-	-
1971-S463	2441215.85	1971 Sep 21 0830	Nike Iroquois	-	CRL A07.017-1	Density	-	-	-	WS	-	-	-	167	-	-
1971-S464	2441216.08	1971 Sep 21 1400	Nike Cajun	-	NASA 10.358GM	GSFC Grenade 265 CSG	-	-	-	CSG	ALFS	-	-	118	-	-
1971-S465	2441216.28	1971 Sep 21 1840	Nike Cajun	-	NASA 10.359GM	GSFC Grenade 266 CSG	-	-	-	CSG	ALFS	-	-	116	-	-
1971-S466	2441216.49	1971 Sep 21 2340	Nike Cajun	-	NASA 10.360GM	GSFC Grenade 267 CSG	-	-	-	CSG	ALFS	-	-	116	-	-
1971-S467	2441216.66	1971 Sep 22 0350	Nike Cajun	-	NASA 10.351GM	GSFC Grenade 268 CSG	-	-	-	CSG	ALFS	-	-	118	-	-
1971-S653	2441217.19	1971 Sep 22 1630	Nike Cajun	-	3-Sphere Ejection 8	-	-	-	-	WS	-	-	-	100?	-	-
1971-S478	2441221.85	1971 Sep 27 0830	Nike Iroquois	-	CRL A07.914-1	Density	-	-	-	WS	-	-	-	170	-	-
1971-S482	2441224.50	1971 Oct	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1971-S491	2441230.27	1971 Oct 5 1830	Nike Tomahawk	-	CRL A08.103-2	Photometers	-	-	-	WI	-	-	-	272	-	-
1971-S493	2441230.52	1971 Oct 6 0032	Nike Iroquois	-	CRL A07.913-6A	Density	-	-	-	WI	-	-	-	189	-	-
1971-S494	2441230.52	1971 Oct 6 0033	Nike Iroquois	-	CRL A07.101-5	NACS mass spec	-	-	-	WI	-	-	-	117	-	-
1971-S495	2441230.53	1971 Oct 6 0042	Nike Iroquois	-	CRL A07.102-4	Sphere	-	-	-	WI	-	-	-	232	-	-
1971-S496	2441230.54	1971 Oct 6 0103	Nike Iroquois	-	CRL A07.913-6	Sphere	-	-	-	WI	-	-	-	222	-	-
1971-S497	2441230.61	1971 Oct 6 0245	Nike Iroquois	-	CRL A07.101-6	Neutral Atmosphere	-	-	-	WI	-	-	-	119	-	-
1971-S499	2441231.00	1971 Oct 6 1200	Nike Iroquois	-	CRL A07.902-6	Mass Spectrometer	-	-	-	WI	-	-	-	120	-	-
1971-S500	2441231.01	1971 Oct 6 1211	Nike Iroquois	-	CRL A07.101-3	Mass Spectrometer	-	-	-	WI	-	-	-	118	-	-
1971-S502	2441231.03	1971 Oct 6 1244	Nike Iroquois	-	CRL A07.101-4	Mass Spectrometer	-	-	-	WI	-	-	-	119	-	-
1971-S503	2441231.05	1971 Oct 6 1305	Nike Iroquois	-	CRL A07.101-2	Mass Spectrometer	-	-	-	WI	-	-	-	117	-	-
1971-S512	2441232.84	1971 Oct 8 0810	Aerobee 170	-	NRL NC4.253	FUV Stellar Phot.	-	-	-	WS	-	-	-	200?	-	-
1971-S521	2441238.30	1971 Oct 13 1916	Nike Cajun	-	NASA 10.378GI	-	-	-	-	WS	-	-	-	81	-	-
1971-S522	2441238.31	1971 Oct 13 1928	Nike Cajun	-	NASA 10.379GI	-	-	-	-	WS	-	-	-	81	-	-
1971-S532	2441244.23	1971 Oct 19 1730	Aerobee 170A	-	NASA 13.113GT	MSFC RR-2	-	-	-	WS	-	-	-	200?	-	-
1971-S537	2441247.66	1971 Oct 23 0345:00	Aerobee 170A	-	NASA 13.63UG	-	-	-	-	WS	-	-	-	181	-	-
1971-S542	2441251.92	1971 Oct 27 1004	Aerobee 170	-	NASA 13.56GG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S543	2441253.92	1971 Oct 29 1009	Aerobee 170	-	CRL A04.004-5	HI STAR 3	-	-	-	WS	LC36	-	-	158	-	-
1971-S656	2441255.18	1971 Oct 30 1616:00	Nike Tomahawk	-	Sandia 152-133	Rocket EMP Test 3	-	-	-	KAU	-	-	-	272	-	-
1971-S548	2441259.02	1971 Nov 3 1230	Aerobee 170	-	CRL A04.012-1	OH/Radiance	-	-	-	WS	-	-	-	251	-	-
1971-S557	2441266.75	1971 Nov 11 0600	Aerobee 170	-	NRL NB4.244	-	-	-	-	WS	-	-	-	270?	-	-
1971-S562	2441272.73	1971 Nov 17 0533:54	Nike Tomahawk	-	NASA 18.103GA	-	-	-	-	SMLC	-	-	-	200?	-	-
1971-S565	2441275.81	1971 Nov 20 0721	Aerobee 170	-	NASA 13.57GG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S566	2441275.85	1971 Nov 20 0830	Aerobee 170	-	NASA 13.58GG	-	-	-	-	WS	-	-	-	200?	-	-
1971-S570	2441279.76	1971 Nov 24 0615	Aerobee 170	-	CRL A04.116-3	CHASER 2	-	-	-	VS	PALC-C	-	-	145	-	-
1971-S582	2441291.62	1971 Dec 6 0300	Nike Apache	-	NASA 14.495UM	UM Pitot	-	-	-	PBA	-	-	-	100?	-	-
1971-S583	2441291.63	1971 Dec 6 0302	Nike Cajun	-	NASA 10.384GM	GSFC Grenade 269 PB	-	-	-	PBA	-	-	-	100?	-	-
1971-S584	2441291.69	1971 Dec 6 0430	Nike Apache	-	NASA 14.496UM	UM Pitot	-	-	-	PBA	-	-	-	200?	-	-
1971-S585	2441291.70	1971 Dec 6 0442	Nike Apache	-	NASA 14.497UM	UM Pitot	-	-	-	PBA	-	-	-	200?	-	-
1971-S586	2441291.83	1971 Dec 6 0752	Nike Apache	-	NASA 14.498UM	UM Pitot	-	-	-	PBA	-	-	-	200?	-	-
1971-S587	2441291.83	1971 Dec 6 0802	Nike Cajun	-	NASA 10.385GM	GSFC Grenade 270 PB	-	-	-	PBA	-	-	-	100?	-	-
1971-S588	2441291.95	1971 Dec 6 1041	Nike Cajun	-	NASA 10.392GM	Langmuir Probe	-	-	-	PBA	-	-	-	100?	-	-
1971-S589	2441291.98	1971 Dec 6 1130	Nike Cajun	-	NASA 10.394GM	Langmuir Probe	-	-	-	PBA	-	-	-	100?	-	-
1971-S601	2441296.12	1971 Dec 10 1446	Nike Iroquois	-	CRL A07.102-3	7-in Density Sphere	-	-	-	FC	-	-	-	253	-	-
1971-S602	2441296.18	1971 Dec 10 1624	Nike Tomahawk	-	CRL A08.102-2	7-in Density Sphere	-	-	-	FC	-	-	-	292	-	-
1971-S603	2441296.25	1971 Dec 10 1800	Nike Iroquois	-	CRL A07.216-1	7-in Density Sphere	-	-	-	FC	-	-	-	248	-	-
1972-S02	2441316.50	1972 Jan	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1972-S03	2441316.50	1972 Jan	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1972-S36	2441329.39	1972 Jan 12 2116:35	Nike Apache	-	NASA 14.383AE	-	-	-	-	AND	-	-	-	197	-	-
1972-S37	2441330.34	1972 Jan 13 2004:35	Nike Tomahawk	-	NASA 18.135IE	Ferdinand 29/Electra	-	-	-	AND	-	-	-	192	-	-
1972-S43	2441334.59	1972 Jan 18 0207	Aerobee 170	-	CRL A04.004-6	HI STAR 4	-	-	-	WS	LC36	-	-	161	-	-
1972-A14	2441345.34	1972 Jan 28 2009	Nike Apache	-	NASA 14.419UA	-	-	-	-	WS	-	-	-	4	-	-
1972-S57	2441348.23	1972 Jan 31 1730	Nike Apache	-	NASA 14.440UI	-	-	-	-	WI	-	-	-	200	-	-
1972-S58	2441348.24	1972 Jan 31 1745	Nike Iroquois	-	CRL A07.217-1	Sphere	-	-	-	WI	-	-	-	220	-	-
1972-S59	2441348.41	1972 Jan 31 2150	Nike Iroquois	-	CRL AT07.897	Mass spectrometer	-	-	-	WI	-	-	-	117	-	-
1972-S56	2441347.50	1972 Feb	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S61	2441349.98	1972 Feb 2 1125:00	Nike Tomahawk	-	NASA 18.111UE	-	-	-	-	PF	-	-	-	173	-	-
1972-S68	2441354.22	1972 Feb 6 1715	Nike Iroquois	-	CRL A07.001-1	Mass spectrometer	-	-	-	WI	-	-	-	95	-	-
1972-S69	2441355.48	1972 Feb 7 2333:34	Nike Tomahawk	-	NASA 18.131IA	RTG SNT 7/1 (S7-1)	-	-	-	ESR	N1	-	-	180	-	-
1972-S77	2441361.47	1972 Feb 13 2320:11	Nike Tomahawk	-	NASA 18.137IE	Ferdinand 31/Proton 1	-	-	-	AND	-	-	-	222	-	-
1972-S80	2441362.68	1972 Feb 15 0421	Nike Apache	-	NASA 14.486UA	Auroral NO	-	-	-	FC	-	-	-	141	-	-
1972-S85	2441366.72	1972 Feb 19 0512	Aerobee 170	-	NASA 13.082UG	-	-	-	-	WS	-	-	-	200	-	-
1972-S91	2441372.81	1972 Feb 25 0723	Nike Tomahawk	-	NASA 18.112UE	-	-	-	-	PF	-	-	-	270?	-	-
1972-A20	2441377.28	1972 Feb 29 1845	Nike	-	-	Propellant dynamics	-	-	-	WI	-	-	-	11	-	-
1972-S102	2441383.72	1972 Mar 7 0516:00	Nike Tomahawk	-	NASA 18.141GE	-	-	-	-	PF	-	-	-	270?	-	-
1972-S104	2441384.10	1972 Mar 7 1426:00	Nike Tomahawk	-	NASA 18.142GE	-	-	-	-	PF	-	-	-	270?	-	-
1972-S108	2441386.00	1972 Mar 9 1200	Nike Tomahawk	-	NASA 18.73UE	-	-	-	-	WI	-	-	-	243	-	-
1972-S109	2441386.09	1972 Mar 9 1408:00	Nike Tomahawk	-	NASA 18.143GE	-	-	-	-	PF	-	-	-	270?	-	-
1972-S110	2441390.17	1972 Mar 13 1600	Nike Apache	-	ISRC-PO-4	-	-	-	-	SMLC	-	-	-	185	-	-
1972-S112	2441391.17	1972 Mar 14 1558	Nike Apache	-	ISRC-PO-5	-	-	-	-	SMLC	-	-	-	185	-	-
1972-S113	2441392.17	1972 Mar 15 1600	Nike Apache	-	ISRC-PO-6	-	-	-	-	SMLC	-	-	-	185	-	-
1972-S118	2441393.15	1972 Mar 16 1543	Nike Apache	-	ISRC-PO-7	-	-	-	-	SMLC	-	-	-	185	-	-
1972-S132	2441398.07	1972 Mar 21 1335:02	Aerobee 170	-	KP3.38	CAL XR 7	-	-	-	WS	LC35	-	-	200?	-	-
1972-A26	2441398.56	1972 Mar 22 0121:38	Nike Cajun	-	Ferdinand 28	Ferdinand 28	-	-	-	AND	-	-	-	24	-	-
1972-S133	2441398.85	1972 Mar 22 0822	Nike Apache	-	ISRC-PO-9	-	-	-	-	SMLC	-	-	-	200?	-	-
1972-S137	2441401.93	1972 Mar 25 1015	Nike Javelin	-	NRL (Unknown)	NRL Cs Release 1	-	-	-	WI	-	-	-	100	-	-
1972-S139	2441403.92	1972 Mar 27 1008	Nike Javelin	-	NRL (Unknown)	NRL Cs Release 2	-	-	-	WI	-	-	-	100	-	-
1972-S140	2441405.92	1972 Mar 29 1007	Nike Javelin	-	NRL (Unknown)	NRL Cs Release 3	-	-	-	WI	-	-	-	100	-	-
1972-S146	2441408.71	1972 Apr 1 0505	Aerobee 170	-	NASA 13.027CG	-	-	-	-	WS	-	-	-	193	-	-
1972-S147	2441410.92	1972 Apr 3 1004	Nike Javelin	-	NRL (Unknown)	NRL Cs Release 4	-	-	-	WI	-	-	-	100	-	-
1972-S148	2441410.92	1972 Apr 3 1006	Nike Javelin	-	NRL (Unknown)	NRL Cs Release 5	-	-	-	WI	-	-	-	100	-	-
1972-S151	2441413.49	1972 Apr 5 2345	Nike Iroquois	-	CRL A07.921-3	Release	-	-	-	EGL	-	-	-	160	-	-
1972-S152	2441414.79	1972 Apr 7 0700	Nike Apache	-	NASA 14.412IP	ISRO 10.43	TERLS-430	-	-	TERLS	-	-	-	147	-	-
1972-S155	2441418.53	1972 Apr 11 0038	Nike Iroquois	-	CRL A07.106-4	-	Release	-	-	EGL	-	-	-	156	-	-
1972-S157	2441420.53	1972 Apr 13 0043	Nike Iroquois	-	CRL A07.921-5	ALADDIN II Release	-	-	-	EGL	-	-	-	177	-	-
1972-S159	2441420.58	1972 Apr 13 0200	Nike Iroquois	-	CRL A07.107-1	ALADDIN II NACS MSp.	-	-	-	EGL	-	-	-	120	-	-
1972-S160	2441420.59	1972 Apr 13 0216	Nike Iroquois	-	CRL AT07.894	ALADDIN II NACS MSp.	-	-	-	EGL	-	-	-	128	-	-
1972-S161	2441420.60	1972 Apr 13 0230	Nike Tomahawk	-	CRL A08.013-1	ALADDIN II Release	-	-	-	EGL	-	-	-	214	-	-
1972-S162	2441420.61	1972 Apr 13 0245	Nike Iroquois	-	CRL A07.217-2	ALADDIN II Sphere	-	-	-	EGL	-	-	-	190	-	-
1972-S163	2441420.71	1972 Apr 13 0500	Nike Iroquois	-	CRL A07.215-1	ALADDIN II Sphere	-	-	-	EGL	-	-	-	219	-	-
1972-S164	2441420.72	1972 Apr 13 0515	Nike Iroquois	-	CRL A07.921-4	ALADDIN II Release	-	-	-	EGL	-	-	-	164	-	-
1972-S165	2441420.87	1972 Apr 13 0850	Nike Iroquois	-	CRL A07.921-2	ALADDIN II TMA/Gren	-	-	-	EGL	-	-	-	160	-	-
1972-S166	2441420.94	1972 Apr 13 1030	Nike Iroquois	-	CRL A07.921-6	ALADDIN II TMA	-	-	-	EGL	-	-	-	175	-	-
1972-S168	2441422.53	1972 Apr 15 0045	Nike Iroquois	-	CRL A07.106-2	-	Release	-	-	EGL	-	-	-	148	-	-
1972-S170	2441422.77	1972 Apr 15 0622	Aerobee 170	-	CRL A04.004-7	HI STAR 5	-	-	-	WS	LC36	-	-	177	-	-
1972-S179	2441432.37	1972 Apr 24 2057	Aerobee 170	-	NASA 13.15CS	-	-	-	-	WS	-	-	-	203	-	-
1972-S186	2441438.85	1972 May 1 0823	Nike Tomahawk	-	CRL A08.113-1	Auroral B	-	-	-	FC	-	-	-	231	-	-
1972-S187	2441438.85	1972 May 1 0824	Nike Tomahawk	-	CRL A08.112-1	Auroral B	-	-	-	FC	-	-	-	213	-	-
1972-S193	2441449.94	1972 May 12 1030	Aerobee 170A	-	NASA 13.19DG	NRL NB4.255	FUV Schmidt	-	-	WS	-	-	-	200?	-	-
1972-S198	2441454.82	1972 May 17 0740	Nike Cajun	-	NASA 10.397GM	GSFC Grenade 271 PB	-	-	-	PBA	-	-	-	110	-	-
1972-S200	2441454.98	1972 May 17 1130	Nike Cajun	-	NASA 10.395GM	GSFC Ozone	-	-	-	PBA	-	-	-	85	-	-
1972-S201	2441455.04	1972 May 17 1300	Nike Cajun	-	NASA 10.393GM	UM Oxygen	-	-	-	PBA	-	-	-	127	-	-
1972-S202	2441455.20	1972 May 17 1645	Nike Cajun	-	NASA 10.398GM	GSFC Grenade 272 PB	-	-	-	PBA	-	-	-	92	-	-
1972-S204	2441456.86	1972 May 19 0835	Aerobee 170	-	NASA 13.37UG	MIT-10	-	-	-	WS	-	-	-	200?	-	-
1972-S205	2441456.92	1972 May 19 1000	Aerobee 170A	-	NASA 13.09GG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S207	2441460.00	1972 May 22 1200	Nike Tomahawk	-	LEINAX II	-	-	-	-	KAU	-	-	-	270?	-	-
1972-S227	2441468.76	1972 May 31 0619:11	Nike Apache	-	NASA 14.485UI	Ferdinand 34	-	-	-	AND	-	-	-	154	-	-
1972-S228	2441468.79	1972 May 31 0653:20	Nike Cajun	-	NASA 10.391UI	Ferdinand 33	-	-	-	AND	-	-	-	110	-	-
1972-S213	2441468.50	1972 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1972-S231	2441470.76	1972 Jun 2 0616:00	Nike Tomahawk	12	Sandia 152-185	LRL ACS-1C	-	-	-	TTR	HAD4	-	-	175	-	-
1972-S235	2441477.74	1972 Jun 9 0545	Aerobee 170A	-	NASA 13.59GG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S236	2441478.69	1972 Jun 10 0430	Nike Apache	-	NASA 14.415UG	-	-	-	-	WS	-	-	-	164	-	-
1972-S239	2441482.33	1972 Jun 13 2000	Aerobee 170	-	NASA 13.66US	-	-	-	-	WS	-	-	-	200?	-	-
1972-A66	2441489.20	1972 Jun 20 1645	Aerobee 170	-	CRL A04.116-3	CHASER	-	-	-	VS	PALC-C	-	-	8	-	-
1972-S250	2441496.33	1972 Jun 27 2000	Aerobee 170	-	NASA 13.05US	CAL Solar 1	-	-	-	WS	-	-	-	200?	-	-
1972-S251	2441501.84	1972 Jul 3 0810	Nike Apache	-	NASA 14.483GI-II	INTA NA-7201	-	-	-	ELAR	-	-	-	122	-	-
1972-S255	2441504.84	1972 Jul 6 0810	Nike Cajun	-	NASA 10.408GI	INTA NC-7201	-	-	-	ELAR	-	-	-	85	-	-
1972-S265	2441509.42	1972 Jul 10 2201	Aerobee 170	-	NASA 13.80DS	NRL NE4.246	-	-	-	WS	-	-	-	200?	-	-
1972-S266	2441509.42	1972 Jul 10 2205	Aerobee 170A	-	NASA 13.28CS	-	-	-	-	WS	-	-	-	200?	-	-
1972-S269	2441512.75	1972 Jul 14 0601	Aerobee 170	-	NASA 13.04UG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S271	2441516.85	1972 Jul 18 0820	Aerobee 170A	-	KP3.40	IPRCE-3	-	-	-	WS	LC35	-	-	222	-	-
1972-S273	2441526.26	1972 Jul 27 1810	Aerobee 170	-	NASA 13.31US	-	-	-	-	WS	-	-	-	200?	-	-
1972-S278	2441534.30	1972 Aug 4 1916	Nike Apache	-	NASA 14.489GE	Solar cosmic rays	-	-	-	FC	-	-	-	159	-	-
1972-A85	2441534.73	1972 Aug 5 0526	Nike Apache	-	NASA 14.490GM	Solar cosmic rays	-	-	-	FC	-	-	-	10?	-	-
1972-S279	2441534.74	1972 Aug 5 0552	Aerobee 170	-	NASA 13.30CG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S282	2441539.74	1972 Aug 10 0545	Aerobee 170	-	NASA 13.38UG	MIT LATP 1	-	-	-	WS	-	-	-	200?	-	-
1972-S283	2441539.79	1972 Aug 10 0659	Aerobee 170	-	NASA 13.23UG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S345	2441542.79	1972 Aug 13 0659	Nike Apache	-	ISRO 10.44	ISRO 10.44	TERLS-489	-	-	TERLS	-	-	-	148	-	-
1972-S292	2441547.93	1972 Aug 18 1021	Aerobee 170	-	CRL A04.004-8	HI STAR 6	-	-	-	WS	LC36	-	-	171	-	-
1972-S293	2441553.38	1972 Aug 23 2100	Aerobee 170	-	CRL A04.104-1	RM-57	-	-	-	WS	-	-	-	268	-	-
1972-S302	2441561.67	1972 Sep 1 0410	Aerobee 170A	-	NASA 13.47UL	JHU UVT F7	-	-	-	WS	-	-	-	159	-	-
1972-S307	2441576.67	1972 Sep 16 0400	Aerobee 170	-	NASA 13.39UG	MIT LATP 2	-	-	-	WS	-	-	-	200?	-	-
1972-S333	2441599.17	1972 Oct 8 1610	Nike Apache	-	NASA 14.499UA	SSC NNA 3	-	-	-	ESR	-	-	-	109	-	-
1972-S335	2441600.15	1972 Oct 9 1530	Nike Apache	-	NASA 14.501UA	SSC NNA 4	-	-	-	ESR	-	-	-	109	-	-
1972-S341	2441601.98	1972 Oct 11 1131	Aerobee 170	-	CRL A04.116-4	CHASER	-	-	-	VS	PALC-C	-	-	151	-	-
1972-S343	2441603.15	1972 Oct 12 1533:30	Nike Apache	-	NASA 14.502UA	SSC NNA 5	-	-	-	ESR	-	-	-	109	-	-
1972-A107	2441603.65	1972 Oct 13 0339	Nike Apache	-	NASA 14.506CA	GCA Release TMA	-	-	-	PF	-	-	-	10?	-	-
1972-S346	2441604.13	1972 Oct 13 1511	Nike Apache	-	NASA 14.504CA	GCA Release Na-Li	-	-	-	PF	-	-	-	160	-	-
1972-S347	2441604.19	1972 Oct 13 1639	Nike Apache	-	NASA 14.505CA	GCA Release Na-Li	-	-	-	PF	-	-	-	160	-	-
1972-S357	2441612.05	1972 Oct 21 1316:13	Nike Tomahawk	-	NASA 18.151UE	-	-	-	-	PF	-	-	-	270?	-	-
1972-S372	2441621.24	1972 Oct 30 1745	Aerobee 170	-	NASA 13.67US	-	-	-	-	WS	-	-	-	200?	-	-
1972-S375	2441622.48	1972 Oct 31 2332	Nike Iroquois	-	CRL A07.106-1	HAVE GENIE II	Release	-	-	EGL	-	-	-	170	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S376	2441622.49	1972 Oct 31 2351	Nike Iroquois	-	CRL A07.105-6	HAVE GENIE II	Release	-	-	EGL	-	-	-	192	-	-
1972-S377	2441622.54	1972 Nov 1 0104	Nike Iroquois	-	CRL A07.105-5	HAVE GENIE II	Release	-	-	EGL	-	-	-	174	-	-
1972-S378	2441622.56	1972 Nov 1 0130	Nike Iroquois	-	CRL A07.105-4	HAVE GENIE II	Release	-	-	EGL	-	-	-	203	-	-
1972-S380	2441622.71	1972 Nov 1 0503	Nike Apache	-	NASA 14.439UI	-	-	-	-	WI	-	-	-	195	-	-
1972-S381	2441622.73	1972 Nov 1 0530	Aerobee 170	-	NRL NB4.257	NRL NB4.257	-	-	-	WS	-	-	-	205	-	-
1972-S382	2441622.90	1972 Nov 1 0933	Nike Iroquois	-	CRL A07.216-2	HIBAL Sphere	-	-	-	EGL	-	-	-	220	-	-
1972-S392	2441625.59	1972 Nov 4 0215	Nike Apache	-	NASA 14.487UA	-	-	-	-	WS	-	-	-	123	-	-
1972-M11	2441627.49	1972 Nov 5 2345	Nike Tomahawk	-	CRL A08.105-10	Release	-	-	-	EGL	-	-	-	62	-	-
1972-S394	2441627.50	1972 Nov 6 0004	Nike Tomahawk	-	CRL A08.215-2	Sphere	-	-	-	EGL	-	-	-	212	-	-
1972-S395	2441629.85	1972 Nov 8 0830	Aerobee 170	-	NASA 13.86GG	-	-	-	-	WS	-	-	-	200?	-	-
1972-S398	2441636.28	1972 Nov 14 1848	Aerobee 170	-	NASA 13.02GS	-	-	-	-	WS	-	-	-	200?	-	-
1972-S401	2441642.21	1972 Nov 20 1707	Aerobee 200A	-	NASA 26.13GT	-	-	-	-	WS	-	-	-	250?	-	-
1972-S405	2441649.50	1972 Nov 28	Nike Apache	-	-	-	-	-	-	SMLC	-	-	-	200?	-	-
1972-S408	2441651.50	1972 Dec	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1972-S414	2441656.68	1972 Dec 5 0420	Aerobee 170	-	CRL A04.004-9	HI STAR 7	-	-	-	WS	LC36	-	-	179	-	-
1972-S416	2441657.23	1972 Dec 5 1730	Nike Apache	-	NASA 14.509UI	-	-	-	-	WI	-	-	-	185	-	-
1972-S419	2441658.80	1972 Dec 7 0707	Nike Iroquois	-	CRL A07.307-3	7-in Density Sphere	-	-	-	FC	-	-	-	210	-	-
1972-S422	2441659.77	1972 Dec 8 0626	Aerobee 170	-	NASA 13.083UG	Wisc. Aerobee-III	-	-	-	WS	-	-	-	200?	-	-
1972-S428	2441662.56	1972 Dec 11 0130	Nike Iroquois	-	CRL A07.107-3	Auroral composition	-	-	-	FC	-	-	-	136	-	-
1972-S429	2441662.57	1972 Dec 11 0139	Nike Iroquois	-	CRL A07.301-1	7-in Density Sphere	-	-	-	FC	-	-	-	255	-	-
1972-S430	2441663.40	1972 Dec 11 2138	Aerobee 170A	-	NASA 13.96UA	JHU Airglow 12	-	-	-	WS	-	-	-	214	-	-
1972-S435	2441665.38	1972 Dec 13 2103	Aerobee 170	-	NASA 13.94US	-	-	-	-	WS	-	-	-	200?	-	-
1973-S14	2441694.99	1973 Jan 12 1146	Aerobee 170B	?	KP3.42	-	-	-	-	WS	LC35	-	-	229	-	-
1973-S17	2441699.23	1973 Jan 16 1730	Nike Apache	-	NASA 14.510UI	-	-	-	-	WI	-	-	-	157	-	-
1973-S18	2441699.37	1973 Jan 16 2058:51	Nike Tomahawk	-	NASA 18.57IE	-	-	-	-	AND	-	-	-	278	-	-
1973-S19	2441701.25	1973 Jan 18 1755	Aerobee 200A	-	NASA 26.01CS	LPARL X-ray Spec.	-	-	-	WS	-	-	-	245	-	-
1973-S35	2441710.27	1973 Jan 27 1831:55	Nike Tomahawk	-	NASA 18.138IE	Ferdinand 32/Proton 2	-	-	-	AND	-	-	-	222	-	-
1973-S41	2441713.50	1973 Feb	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S42	2441713.50	1973 Feb	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S43	2441713.50	1973 Feb	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S60	2441719.94	1973 Feb 6 1035	Nike Tomahawk	-	Sandia 152-199	Caribou VII	-	-	-	PF	-	-	-	270?	-	-
1973-S61	2441720.33	1973 Feb 6 1959:03	Nike Tomahawk	-	NASA 18.136IE	Ferd. 30/Electra-2	-	-	-	AND	-	-	-	255	-	-
1973-S64	2441722.54	1973 Feb 9 0054:02	Nike Tomahawk	-	NASA 18.132IA	SSC S7-2 (SNT 7/2)	-	-	-	ESR	C	-	-	182	-	-
1973-S91	2441742.79	1973 Mar 1 0657	Nike Apache	-	NASA 14.503UA	Auroral zone NO	-	-	-	FC	-	-	-	135	-	-
1973-S93	2441744.78	1973 Mar 3 0650	Nike Apache	-	ISRO 10.45	ISRO 10.45	TERLS-533	Electrojet	-	TERLS	-	-	-	158	-	-
1973-S94	2441746.50	1973 Mar 5	Nike Apache	-	NASA 14.444UI	-	-	-	-	WS	-	-	-	200?	-	-
1973-S95	2441747.23	1973 Mar 5 1725	Aerobee 170	-	NASA 13.32US	-	-	-	-	WS	-	-	-	241	-	-
1973-S99	2441750.25	1973 Mar 8 1800	Aerobee 170	-	NASA 13.29CS	-	-	-	-	WS	-	-	-	170	-	-
1973-S106	2441757.94	1973 Mar 16 1040	Nike Tomahawk	-	NASA 18.152UE	-	-	-	-	PF	-	-	-	249	-	-
1973-S113	2441762.75	1973 Mar 21 0600	Nike Tomahawk	-	NASA 18.144GE	-	-	-	-	PF	-	-	-	225	-	-
1973-S114	2441763.75	1973 Mar 22 0602	Nike Tomahawk	-	NASA 18.145GE	-	-	-	-	PF	-	-	-	240	-	-
1973-S118	2441765.65	1973 Mar 24 0335	Aerobee 170A	-	NASA 13.64UG	-	-	-	-	WS	-	-	-	200	-	-
1973-S123	2441769.04	1973 Mar 27 1258	Nike Tomahawk	-	NASA 18.146GE	-	-	-	-	PF	-	-	-	233	-	-
1973-S128	2441771.95	1973 Mar 30 1043	Aerobee 170A	-	NASA 13.40UG	MIT BCP 1	-	-	-	WS	-	-	-	184	-	-
1973-S129	2441772.02	1973 Mar 30 1234	Nike Tomahawk	-	NASA 18.147GE	-	-	-	-	PF	-	-	-	243	-	-
1973-S133	2441773.02	1973 Mar 31 1227	Nike Tomahawk	-	NASA 18.148GE	-	-	-	-	PF	-	-	-	232	-	-
1973-S130	2441772.50	1973 Apr	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S131	2441772.50	1973 Apr	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S147	2441782.79	1973 Apr 10 0659	Aerobee 170	-	NASA 13.91DG	-	-	-	-	WS	-	-	-	198	-	-
1973-S174	2441827.74	1973 May 25 0550	Aerobee 170	-	NASA 13.75UG	-	-	-	-	WS	-	-	-	178	-	-
1973-S179	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S180	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S181	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S182	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S183	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S184	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S185	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S186	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S187	2441833.50	1973 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S193	2441836.20	1973 Jun 2 1651	Aerobee 170A	-	NASA 13.97CS	-	-	-	-	WS	-	-	-	175	-	-
1973-S198	2441845.27	1973 Jun 11 1830	Aerobee 200A	-	NASA 26.02CS	ATM Support	-	-	-	WS	-	-	-	221	-	-
1973-S220	2441863.94	1973 Jun 30 1033	Aerobee 170B	?	KP3.41	Coronal spectrograph	-	-	-	NOUA	-	-	-	180	-	-
1973-S221	2441864.05	1973 Jun 30 1307	Nike Tomahawk	-	-	-	-	-	-	SMLC	-	-	-	270?	-	-
1973-M11	2441864.36	1973 Jun 30 2033	Nike Apache	-	NASA 14.519GI	-	-	-	-	WI	-	-	-	77	-	-
1973-S222	2441864.34	1973 Jun 30 2012	Nike Cajun	-	NASA 10.412GI	-	-	-	-	WI	-	-	-	86	-	-
1973-S214	2441863.50	1973 Jul	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S225	2441865.82	1973 Jul 2 0745	Aerobee 170	-	NASA 13.87UG	CAL XR 8	-	-	-	WS	-	-	-	176	-	-
1973-S237	2441881.14	1973 Jul 17 1522	Nike Cajun	-	NASA 10.416GM	GSFC Grenade 273 W	-	-	-	WI	-	-	-	117	-	-
1973-S238	2441881.20	1973 Jul 17 1641	Nike Cajun	-	NASA 10.417GM	GSFC Grenade 274 W	-	-	-	WI	-	-	-	116	-	-
1973-S240	2441881.68	1973 Jul 18 0417	Nike Cajun	-	NASA 10.418GM	GSFC Grenade 275 W	-	-	-	WI	-	-	-	115	-	-
1973-S241	2441881.75	1973 Jul 18 0600	Nike Cajun	-	NASA 10.419GM	GSFC Grenade 276 W	-	-	-	WI	-	-	-	121	-	-
1973-S248	2441889.16	1973 Jul 25 1545	Aerobee 200A	-	NASA 26.04GP	-	-	-	-	WS	-	-	-	276	-	-
1973-A38	2441889.22	1973 Jul 25 1720	Aerobee 200A	-	NASA 26.113GT	-	-	-	-	WS	-	-	-	31	-	-
1973-S250	2441891.55	1973 Jul 28 0106	Nike Tomahawk	-	NASA 18.153UA	-	-	-	-	WS	-	-	-	120	-	-
1973-S262	2441896.43	1973 Aug 1 2217:50	Nike Apache	-	NASA 14.515UA	SSC NNA 6	-	-	-	ESR	-	-	-	109	-	-
1973-S263	2441896.45	1973 Aug 1 2248:39	Nike Apache	-	NASA 14.516UA	SSC NNA 7	-	-	-	ESR	-	-	-	111	-	-
1973-S265	2441896.73	1973 Aug 2 0535:45	Nike Cajun	-	NASA 10.414GM	SSC NNC 10	-	-	-	ESR	-	-	-	88	-	-
1973-S266	2441898.17	1973 Aug 3 1600	Nike Apache	-	NASA 14.513UI	-	-	-	-	WI	-	-	-	184	-	-
1973-S268	2441900.49	1973 Aug 5 2342:36	Nike Apache	-	NASA 14.507GI	SSC NNA 9	-	-	-	ESR	-	-	-	123	-	-
1973-S269	2441900.51	1973 Aug 6 0008:25	Nike Apache	-	NASA 14.517UA	SSC NNA 8	-	-	-	ESR	-	-	-	103	-	-
1973-S275	2441905.13	1973 Aug 10 1505	Nike Apache	-	NASA 14.514UI	-	-	-	-	WI	-	-	-	188	-	-
1973-S278	2441909.74	1973 Aug 15 0545	Nike Apache	-	NASA 14.512UA	-	-	-	-	WS	-	-	-	117	-	-
1973-S284	2441917.66	1973 Aug 23 0345	Aerobee 200A	-	NASA 26.08GG	13-in RC Flight 1	-	-	-	WS	-	-	-	213	-	-
1973-S289	2441925.50	1973 Sep	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S303	2441939.40	1973 Sep 13 2130	Aerobee 170	-	NASA 13.69GS	-	-	-	-	WS	-	-	-	199	-	-
1973-S312	2441947.21	1973 Sep 21 1700	Aerobee 200A	-	NASA 26.20GS	EUV solar spectrum	-	-	-	WS	-	-	-	290	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-S317	2441952.17	1973 Sep 26 1600	Nike Iroquois	-	CRL A07.306-2	Sphere	-	-	-	CLBI	-	-	-	225	-	-
1973-S319	2441952.69	1973 Sep 27 0427	Nike Iroquois	-	CRL A07.306-3	Sphere	-	-	-	CLBI	-	-	-	232	-	-
1973-S323	2441955.50	1973 Oct	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1973-S324	2441955.50	1973 Oct	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S325	2441955.50	1973 Oct	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S326	2441955.50	1973 Oct	Nike Apache	?	Capache	-	-	-	-	WS	-	-	-	100?	-	-
1973-S451	2441959.51	1973 Oct 4 0010	Nike Cajun	-	AFCRL 73-1	ML-TwD	-	-	-	WS	-	-	-	120?	-	-
1973-S452	2441959.54	1973 Oct 4 0054	Nike Apache	-	AFCRL 71-B2	ML-TwD	-	-	-	WS	-	-	-	120?	-	-
1973-S341	2441959.65	1973 Oct 4 0340	Aerobee 170A	-	NASA 13.10GG	GSFC XRPC	-	-	-	WS	-	-	-	152	-	-
1973-S354	2441974.49	1973 Oct 18 2345	Nike Iroquois	-	CRL A07.105-1	HAVE MERLIN II	Release	-	-	EGL	-	-	-	167	-	-
1973-S355	2441974.50	1973 Oct 19 0000	Nike Tomahawk	-	CRL A08.105-11	HAVE MERLIN II	Release	-	-	EGL	-	-	-	206	-	-
1973-S357	2441974.53	1973 Oct 19 0050	Nike Iroquois	-	CRL A07.105-2	HAVE MERLIN II	Release	-	-	EGL	-	-	-	173	-	-
1973-S358	2441974.98	1973 Oct 19 1125	Nike Tomahawk	-	CRL A08.005-2	HAVE MERLIN II	Release	-	-	EGL	-	-	-	146	-	-
1973-S361	2441975.50	1973 Oct 19 2353	Nike Tomahawk	-	CRL A08.105-12	HAVE MERLIN II	Release YVONNE	-	-	EGL	-	-	-	160	-	-
1973-S362	2441976.49	1973 Oct 20 2343	Nike Iroquois	-	CRL A07.105-3	HAVE MERLIN II	Release	-	-	EGL	-	-	-	184	-	-
1973-S366	2441979.84	1973 Oct 24 0815	Aerobee 200A	-	NASA 26.06UG	JHU UVT F7	-	-	-	WS	-	-	-	183	-	-
1973-S377	2441988.15	1973 Nov 1 1530	Aerobee 170	-	NASA 13.103UG	Wisc. Aerobee IV	-	-	-	WOO	LA8	-	-	185	-	-
1973-S378	2441988.23	1973 Nov 1 1730	Aerobee 170	-	NASA 13.65UG	-	-	-	-	WOO	LA8	-	-	165	-	-
1973-S380	2441989.19	1973 Nov 2 1630	Aerobee 170	-	CRL A04.104-2	EUV	-	-	-	WS	-	-	-	233	-	-
1973-S383	2441993.15	1973 Nov 6 1540	Aerobee 170	-	NASA 13.104UG	MIT BCP 2	-	-	-	WOO	LA8	-	-	167	-	-
1973-S384	2441996.22	1973 Nov 9 1715	Aerobee 170	-	NASA 13.106UG	-	-	-	-	WOO	LA8	-	-	169	-	-
1973-S385	2441996.25	1973 Nov 9 1800	Aerobee 170	-	NASA 13.105UG	MIT LATP 3	-	-	-	WOO	LA8	-	-	175	-	-
1973-S387	2441999.08	1973 Nov 12 1400	Aerobee 170	-	NASA 13.102UG	Wisc. Aerobee III	-	-	-	WOO	LA8	-	-	172	-	-
1973-S388	2441999.12	1973 Nov 12 1450	Aerobee 170	-	NASA 13.100DS	-	-	-	-	WOO	LA8	-	-	154	-	-
1973-S405	2442009.50	1973 Nov 23	Aerobee 200A	-	NASA 26.09US	-	-	-	-	WS	-	-	-	250?	-	-
1973-S443	2442036.42	1973 Dec 19 2205	Aerobee 200A	-	NASA 26.03CS	-	-	-	-	WS	-	-	-	220	-	-
1974-S51	2442052.57	1974 Jan 5 0145	Aerobee 200A	-	NASA 26.23UG-UP	JHU UVS Kohoutek	-	-	-	WS	-	-	-	233	-	-
1974-S52	2442055.57	1974 Jan 8 0140	Aerobee 200A	-	NASA 26.22DG-DP	NRL NB12.271	-	-	-	WS	-	-	-	193	-	-
1974-S57	2442060.59	1974 Jan 13 0210	Aerobee 200A	-	NASA 26.24UG-UP	-	-	-	-	WS	-	-	-	82	-	-
1974-S60	2442063.50	1974 Jan 16	Aerobee 200A	-	NASA 26.14CS	-	-	-	-	WS	-	-	-	250?	-	-
1974-S63	2442064.24	1974 Jan 16 1740	Nike Apache	-	NASA 14.511UA	-	-	-	-	WI	-	-	-	205	-	-
1974-S64	2442064.61	1974 Jan 17 0237	Nike Tomahawk	-	NASA 18.160GE	-	-	-	-	PF	-	-	-	298	-	-
1974-S68	2442068.61	1974 Jan 21 0239	Nike Tomahawk	-	NASA 18.161GE	-	-	-	-	PF	-	-	-	298	-	-
1974-S71	2442069.61	1974 Jan 22 0241	Nike Tomahawk	-	NASA 18.162GE	-	-	-	-	PF	-	-	-	298	-	-
1974-S73	2442070.20	1974 Jan 22 1645	Aerobee 200A	-	NASA 26.07CS	-	-	-	-	WS	-	-	-	238	-	-
1974-S80	2442075.30	1974 Jan 27 1908:46	Nike Tomahawk	-	NASA 18.139IE	Ferdinand 35/Polar 3	-	-	-	AND	-	-	-	238	-	-
1974-S95	2442087.59	1974 Feb 9 0210	Aerobee 200A	-	NASA 26.21UG	CAL XR 9	-	-	-	WS	-	-	-	186	-	-
1974-S97	2442090.67	1974 Feb 12 0400	Aerobee 200A	-	NASA 26.31UG	-	-	-	-	WS	-	-	-	227	-	-
1974-S103	2442094.86	1974 Feb 16 0833	Aerobee 350	-	CRL A35.191-2	HI HI STAR	-	-	-	WS	-	-	-	111	-	-
1974-S106	2442097.82	1974 Feb 19 0743	Nike Hydac	-	NH74-1	ICECAP 74A	-	-	-	PF	-	-	-	150?	-	-
1974-S108	2442099.25	1974 Feb 20 1807:00	Nike Tomahawk	-	NASA 18.134IE	SSC S10/2 (Substorm)	-	-	-	ESR	N	-	-	235	-	-
1974-S110	2442099.30	1974 Feb 20 1907:00	Nike Tomahawk	-	NASA 18.133IE	SSC S10/1 (Substorm)	-	-	-	ESR	N	-	-	235	-	-
1974-S115	2442100.77	1974 Feb 22 0631	Nike Apache	-	NASA 14.526UA	Auroral zone NO	-	-	-	FC	-	-	-	137	-	-
1974-A11	2442107.65	1974 Mar 1 0334	Nike Apache	-	NASA 14.527UA	-	-	-	-	FC	-	-	-	0	-	-
1974-S124	2442108.73	1974 Mar 2 0527	Nike Apache	-	NASA 14.528UA	-	-	-	-	FC	-	-	-	135	-	-
1974-S126	2442112.48	1974 Mar 5 2336	Nike Apache	-	NASA 14.518GA	Auroral VUV	-	-	-	FC	-	-	-	156	-	-
1974-S129	2442120.89	1974 Mar 14 0920:09	Nike Tomahawk	-	NASA 18.158IE	-	-	-	-	PF	-	-	-	189	-	-
1974-S136	2442122.65	1974 Mar 16 0335	Aerobee 200A	-	NASA 26.11GG	-	-	-	-	WS	-	-	-	199	-	-
1974-S138	2442123.08	1974 Mar 16 1348	Nike Tomahawk	-	Acanta Contiga	-	-	-	-	PF	-	-	-	270?	-	-
1974-S142	2442127.68	1974 Mar 21 0413	Aerobee 200A	-	NASA 26.29UE	Auroral	-	-	-	FC	-	-	-	251	-	-
1974-S143	2442127.78	1974 Mar 21 0645	Nike Cajun	-	NASA 10.411GM	GSFC Ozone	-	-	-	CSG	ALFS	-	-	83	-	-
1974-S144	2442127.90	1974 Mar 21 0931	Nike Cajun	-	NASA 10.420GM	GSFC Ozone	-	-	-	CSG	ALFS	-	-	89	-	-
1974-S146	2442128.78	1974 Mar 22 0645	Nike Cajun	-	NASA 10.421GM	GSFC Grenade 277 CSG	-	-	-	CSG	ALFS	-	-	119	-	-
1974-S147	2442128.90	1974 Mar 22 0931	Nike Cajun	-	NASA 10.422GM	GSFC Grenade 278 CSG	-	-	-	CSG	ALFS	-	-	121	-	-
1974-S167	2442143.67	1974 Apr 6 0410	Aerobee 350	-	NASA 17.12CG	-	-	-	-	WS	-	-	-	237	-	-
1974-S169	2442148.83	1974 Apr 11 0800	Nike Javelin	-	NJ-74-1	ICECAP 74B	-	-	-	PF	-	-	-	130?	-	-
1974-S177	2442156.69	1974 Apr 19 0430	Nike Apache	-	NASA 14.520UI	-	UIUC Elec Spec.	-	-	WI	-	-	-	199	-	-
1974-S178	2442160.25	1974 Apr 22 1802	Aerobee 170	-	CRL A04.208-2	EUV	-	-	-	WS	-	-	-	212	-	-
1974-S184	2442167.50	1974 May	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1974-S194	2442182.28	1974 May 14 1843	Nike Malemute	-	NASA 28.01GT	-	-	-	-	WI	-	-	-	500	-	-
1974-S195	2442183.40	1974 May 15 2137	Nike Apache	-	NASA 14.482UI	-	-	-	-	WI	-	-	-	138	-	-
1974-S196	2442183.42	1974 May 15 2211	Aerobee 200A	-	NASA 26.18US	-	-	-	-	WS	-	-	-	281	-	-
1974-S207	2442198.50	1974 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1974-S220	2442216.50	1974 Jun 18	Nike Hydac	-	DASA HARSES	-	-	-	-	WS	LC36	-	-	100?	-	-
1974-S224	2442218.21	1974 Jun 19 1700	Aerobee 200A	-	NASA 26.36US	-	-	-	-	WS	-	-	-	200	-	-
1974-S231	2442220.81	1974 Jun 22 0730	Aerobee 200A	-	NASA 26.26GG	13-in RC Flight 2	-	-	-	WS	-	-	-	250?	-	-
1974-S234	2442226.28	1974 Jun 27 1845	Aerobee 200A	-	NASA 26.15CS	-	-	-	-	WS	-	-	-	222	-	-
1974-S236	2442227.55	1974 Jun 29 0110	Nike Iroquois	-	CRL A07.105-7	ALADDIN 74 Pre-Alad	-	-	-	WI	-	-	-	184	-	-
1974-S238	2442228.32	1974 Jun 29 1945	Aerobee 170	-	CRL A04.208-1	ALADDIN 74 EUV Airg.	-	-	-	WI	-	-	-	211	-	-
1974-S241	2442228.36	1974 Jun 29 2033	Nike Tomahawk	-	CRL A08.306-4	ALADDIN 74 Sphere	-	-	-	WI	-	-	-	189	-	-
1974-S242	2442228.38	1974 Jun 29 2105	Nike Tomahawk	-	CRL A08.207-2	ALADDIN 74 NO/Photom	-	-	-	WI	-	-	-	186	-	-
1974-S244	2442228.51	1974 Jun 30 0010	Nike Cajun	-	E2-7313	ALADDIN 74	-	-	-	WI	-	-	-	100?	-	-
1974-S247	2442228.60	1974 Jun 30 0220	Nike Apache	-	NASA 14.521UI	ALADDIN 74	-	-	-	WI	-	-	-	196	-	-
1974-S249	2442228.69	1974 Jun 30 0440	Nike Apache	-	NASA 14.522UI	ALADDIN 74	-	-	-	WI	-	-	-	191	-	-
1974-S250	2442228.73	1974 Jun 30 0530	Nike Apache	-	NASA 14.529UA	ALADDIN 74	-	-	-	WI	-	-	-	134	-	-
1974-S252	2442228.80	1974 Jun 30 0710	Nike Tomahawk	-	CRL A08.207-1	ALADDIN 74 NO/Photom	-	-	-	WI	-	-	-	185	-	-
1974-S256	2442228.88	1974 Jun 30 0900	Nike Apache	-	NASA 14.508UA	ALADDIN 74	-	-	-	WI	-	-	-	204	-	-
1974-S257	2442228.89	1974 Jun 30 0915	Nike Apache	-	NASA 14.523UI	ALADDIN 74	-	-	-	WI	-	-	-	199	-	-
1974-S262	2442231.01	1974 Jul 2 1216	Nike Tomahawk	-	NASA 18.156IE-UE	-	-	-	-	SSG	-	-	-	236	-	-
1974-S264	2442232.52	1974 Jul 4 0030	Nike Apache	-	NASA 14.433GE	Solar CR	-	-	-	FC	-	-	-	140	-	-
1974-S265	2442234.15	1974 Jul 5 1532	Nike Apache	-	NASA 14.488GE	Solar CR	-	-	-	FC	-	-	-	141	-	-
1974-S266	2442237.14	1974 Jul 8 1519	Nike Tomahawk	-	NASA 18.157IE-UE	-	-	-	-	SSG	-	-	-	237	-	-
1974-S272	2442247.50	1974 Jul 19	Nike Hydac	-	-	Low Light TV	-	-	-	WS	-	-	-	150?	-	-
1974-S273	2442248.76	1974 Jul 20 0610	Aerobee 170	-	NASA 13.084UG	Wisc. Aerobee IV	-	-	-	WS	-	-	-	195	-	-
1974-S279	2442274.26	1974 Aug 14 1808	Nike Apache	-	NASA 14.417UA	-	-	-	-	WI	-	-	-	133	-	-
1974-S282	2442277.87	1974 Aug 18 0859:36	Nike Cajun	-	-	Ferdinand 36	-	-	-	ESR	-	-	-	106	-	-

							Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S292	2442294.93	1974 Sep 4 1024	Aerobee 200	-	CRL A05.391-1	HI STAR SOUTH 1	-	-	-	WOO	LA8	-	-	193	-	-
1974-S294	2442297.69	1974 Sep 7 0435	Aerobee 200A	-	NASA 26.25DG	-	-	-	-	WS	-	-	-	250?	-	-
1974-S298	2442302.45	1974 Sep 11 2255	Aerobee 200	-	CRL A05.391-2	HI STAR SOUTH 2	-	-	-	WOO	LA8	-	-	200	-	-
1974-S304	2442308.15	1974 Sep 17 1533	Aerobee 200	-	CRL A05.391-3	HI STAR SOUTH 3	-	-	-	WOO	LA8	-	-	193	-	-
1974-S305	2442309.24	1974 Sep 18 1743	Aerobee 170	-	NASA 13.35US	-	-	-	-	WS	-	-	-	252	-	-
1974-S325	2442315.26	1974 Sep 24 1820	Nike Malemute	-	NASA 28.002GT	-	-	-	-	WI	-	-	-	465	-	-
1974-S335	2442323.72	1974 Oct 3 0510	Aerobee 200A	-	NASA 26.37GG	-	-	-	-	WS	-	-	-	250?	-	-
1974-S357	2442337.93	1974 Oct 17 1020	Nike Hydac	-	EX 407.41-1	PRECEDE (HARSES?)	-	-	-	WS	-	-	-	120	-	-
1974-S358	2442340.17	1974 Oct 19 1600	Aerobee 200A	-	NASA 26.16AS	-	-	-	-	WS	-	-	-	201	-	-
1974-S373	2442355.00	1974 Nov 3 1157:53	Aerobee 170	-	NASA 13.107UG	CAL XR 10	-	-	-	KAU	-	-	-	169	-	-
1974-S379	2442367.91	1974 Nov 16 0949	Aerobee 170A	-	NASA 13.92DG	NRL NB4.274	FUV Schmidt	-	-	WS	-	-	-	181	-	-
1974-S380	2442367.94	1974 Nov 16 1035	Aerobee 170A	-	NASA 13.34UG	MIT UBP 1	-	-	-	WS	-	-	-	166	-	-
1974-S387	2442376.81	1974 Nov 25 0722	Nike Tomahawk	-	NASA 18.154UA	-	-	-	-	WS	-	-	-	133	-	-
1974-S389	2442376.89	1974 Nov 25 0915	Aerobee 200A	-	NASA 26.42UG	-	-	-	-	WS	-	-	-	207	-	-
1974-S391	2442379.25	1974 Nov 27 1800	Aerobee 200A	-	NASA 26.41US	-	-	-	-	WS	-	-	-	297	-	-
1974-S401	2442388.35	1974 Dec 6 2020	Nike Tomahawk	-	NASA 18.167UA	-	-	-	-	WI	-	-	-	306	-	-
1974-S412	2442395.31	1974 Dec 13 1927:11	Nike Tomahawk	-	NASA 18.140IE	Ferdinand 37/Polar 4	-	-	-	AND	-	-	-	228	-	-
1974-S428	2442409.76	1974 Dec 28 0614:30	Aerobee 200A	-	NASA 26.30UG	CAL XR 11	-	-	-	WS	-	-	-	197	-	-
1975-S50	2442440.50	1975 Jan 28	Nike Tomahawk	-	Barium cloud	-	-	-	-	KMR	-	-	-	185	-	-
1975-S55	2442443.50	1975 Jan 31	Nike Tomahawk	-	Barium cloud	-	-	-	-	KMR	-	-	-	185	-	-
1975-S56	2442444.62	1975 Feb 1 0300	Aerobee 200A	-	NASA 26.27GG	13-in RC Flight 3	-	-	-	WS	-	-	-	220	-	-
1975-S57	2442446.89	1975 Feb 3 0916	Aerobee 350	-	NASA 17.13CG	-	LPARL XRT	-	-	WS	-	-	-	253	-	-
1975-S60	2442448.50	1975 Feb 5	Nike Tomahawk	-	Barium cloud	-	-	-	-	KMR	-	-	-	185	-	-
1975-S69	2442453.73	1975 Feb 10 0528:10	Nike Apache	-	NASA 14.536UA	EUV airglow	-	-	-	FC	-	-	-	142	-	-
1975-S71	2442456.70	1975 Feb 13 0443	Nike Apache	-	NASA 14.535UA	Auroral NO	-	-	-	FC	-	-	-	136	-	-
1975-S72	2442457.08	1975 Feb 13 1350	Aerobee 200A	-	NASA 26.40UE	-	-	-	-	WS	-	-	-	295	-	-
1975-S80	2442468.73	1975 Feb 25 0532	Nike Apache	-	NASA 14.537UA	Auroral NO	-	-	-	FC	-	-	-	138	-	-
1975-S87	2442472.79	1975 Mar 1 0655	Nike Tomahawk	-	NASA 18.159UE	-	-	-	-	PF	-	-	-	190	-	-
1975-S88	2442475.82	1975 Mar 4 0739:30	Nike Javelin	-	DNA IC506.14-2	ICECAP 75A	-	-	-	PF	-	-	-	130?	-	-
1975-S89	2442477.19	1975 Mar 5 1636:18	Nike Apache	-	SSC S16/2	SSC S16/2 NOX	-	-	-	ESR	C	-	-	102	-	-
1975-S91	2442477.65	1975 Mar 6 0343	Nike Hydac	-	DNA IC507.11-1A	ICECAP 75A	-	-	-	PF	-	-	-	150?	-	-
1975-S92	2442477.76	1975 Mar 6 0616:30	Nike Hydac	-	DNA IC507.11-3	ICECAP 75A	-	-	-	PF	-	-	-	150?	-	-
1975-S94	2442479.50	1975 Mar 8	Aerobee 200A	-	NASA 26.32UG	-	-	-	-	WS	-	-	-	250?	-	-
1975-S95	2442481.88	1975 Mar 10 0912:20	Nike Hydac	-	DNA IC507.11-2A	ICECAP 75A	-	-	-	PF	-	-	-	152	-	-
1975-S99	2442482.77	1975 Mar 11 0634:11	Nike Javelin	-	DNA IC506.36-1	ICECAP 75A	-	-	-	PF	-	-	-	130?	-	-
1975-S100	2442483.61	1975 Mar 12 0232	Nike Apache	-	NASA 14.416GA	-	-	-	-	FC	-	-	-	138	-	-
1975-S102	2442485.21	1975 Mar 13 1702:00	Nike Apache	-	SSC S16/1	SSC S16/1 NOX	-	-	-	ESR	C	-	-	106	-	-
1975-S104	2442486.67	1975 Mar 15 0410	Aerobee 350	-	NASA 17.15UG	SAO XRT 1	-	-	-	WS	-	-	-	214	-	-
1975-S105	2442486.79	1975 Mar 15 0700:57	Aerobee 200A	-	NASA 26.39UG	JHU UVT F8 (Saturn)	-	-	-	WS	-	-	-	261	-	-
1975-S109	2442489.85	1975 Mar 18 0827	Nike Tomahawk	-	NASA 18.165UE	-	-	-	-	PF	-	-	-	270?	-	-
1975-S111	2442494.97	1975 Mar 23 1118:20	Nike Tomahawk	-	NASA 18.166UE	-	-	-	-	PF	-	-	-	230	-	-
1975-A16	2442498.50	1975 Mar 27	Nike	-	-	-	-	-	-	TTR	-	-	-	10?	-	-
1975-A18	2442507.00	1975 Apr 4 1200	Nike Tomahawk	-	NASA 18.172GE	-	-	-	-	PF	-	-	-	10?	-	-
1975-S115	2442511.30	1975 Apr 8 1905	Nike Cajun	-	NASA 10.377UM	-	-	-	-	WI	-	-	-	90	-	-
1975-S116	2442512.69	1975 Apr 10 0440	Aerobee 170A	-	NASA 13.88GG	-	-	-	-	WS	-	-	-	176	-	-
1975-S121	2442515.84	1975 Apr 13 0815	Nike Tomahawk	-	NASA 18.174GE	-	-	-	-	PF	-	-	-	299	-	-
1975-S123	2442515.94	1975 Apr 13 1038	Nike Tomahawk	-	NASA 18.173GE	-	-	-	-	PF	-	-	-	299	-	-
1975-S124	2442518.89	1975 Apr 16 0915	Nike Tomahawk	-	NASA 18.175GE	-	-	-	-	PF	-	-	-	299	-	-
1975-A22	2442520.50	1975 Apr 18	Nike	-	-	-	-	-	-	TTR	-	-	-	0?	-	-
1975-S159	2442556.54	1975 May 24 0100	Nike Tomahawk	-	NASA 18.170GE	Antarqui Radiation	-	-	-	CHI	-	-	-	338	-	-
1975-S160	2442556.79	1975 May 24 0655	Nike Tomahawk	-	NASA 18.171GE	Antarqui Radiation	-	-	-	CHI	-	-	-	324	-	-
1975-S162	2442559.83	1975 May 27 0801	Nike Apache	-	NASA 14.530UA	Antarqui Pandora	-	-	-	CHI	-	-	-	127	-	-
1975-S161	2442560.29	1975 May 27 1902	Nike Apache	-	NASA 14.531UA	Antarqui Pandora	-	-	-	CHI	-	-	-	127	-	-
1975-S166	2442561.35	1975 May 28 2026	Nike Apache	-	NASA 14.532UE	Antarqui Ionos	-	-	-	CHI	-	-	-	191	-	-
1975-S170	2442562.69	1975 May 30 0435	Nike Apache	-	NASA 14.524UE	Antarqui Ionos	-	-	-	CHI	-	-	-	187	-	-
1975-S185	2442563.50	1975 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1975-S186	2442563.50	1975 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1975-S187	2442563.50	1975 Jun	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1975-S169	2442564.66	1975 Jun 1 0355	Nike Apache	-	NASA 14.538UA	Antarqui Mass Spec	-	-	-	CHI	-	-	-	131	-	-
1975-S189	2442565.72	1975 Jun 2 0511	Nike Apache	-	NASA 14.525UE	Antarqui Ionos	-	-	-	CHI	-	-	-	187	-	-
1975-A34	2442567.18	1975 Jun 3 1614	Nike Tomahawk	-	NASA 18.149GE	Antarqui Fields	-	-	-	CHI	-	-	-	20?	-	-
1975-S190	2442567.20	1975 Jun 3 1641	Nike Apache	-	NASA 14.540CA	GCA Release Li Ant.	-	-	-	CHI	-	-	-	204	-	-
1975-S193	2442571.17	1975 Jun 7 1607	Nike Tomahawk	-	NASA 18.150GE	Antarqui Fields	-	-	-	CHI	-	-	-	259	-	-
1975-S194	2442571.20	1975 Jun 7 1645	Nike Apache	-	NASA 14.541CA	Antarqui Release	GCA Release LI	-	-	CHI	-	-	-	197	-	-
1975-A37	2442573.28	1975 Jun 9 1842	Aerobee 170	-	NASA 13.112UA	-	-	-	-	WS	-	-	-	29	-	-
1975-S196	2442574.05	1975 Jun 10 1318:56	Nike Cajun	-	-	Ferdinand 42	-	-	-	AND	-	-	-	100	-	-
1975-S224	2442603.83	1975 Jul 10 0800	Aerobee 170	-	NASA 13.73GG	13-in RC Flight 4	-	-	-	WS	-	-	-	179	-	-
1975-S230	2442617.72	1975 Jul 24 0520	Nike Cajun	-	NASA 10.413GM Icomp	GSFC Grenade 279 W	-	-	-	WI	-	-	-	120	-	-
1975-S239	2442631.65	1975 Aug 7 0330	Aerobee 170	-	CRL A04.308-1	Density/Bremss	-	-	-	WS	-	-	-	174	-	-
1975-S240	2442632.17	1975 Aug 7 1610	Nike Cajun	-	NASA 10.407GM	GSFC Grenade 280 W	-	-	-	WI	-	-	-	119	-	-
1975-S246	2442640.82	1975 Aug 16 0740	Aerobee 170	-	NASA 13.50UH	MIT UBP 2	-	-	-	WS	-	-	-	172	-	-
1975-S257	2442651.28	1975 Aug 26 1850	Aerobee 170	-	NASA 13.74UA	-	-	-	-	WS	-	-	-	180	-	-
1975-S265	2442658.94	1975 Sep 3 1030	Nike Tomahawk	12	Sandia 152-?	LRL ACS-1D	-	-	-	TTR	-	-	-	270?	-	-
1975-S271	2442665.31	1975 Sep 9 1932	Nike Hawk	-	NASA 12.28WT	-	-	-	-	WI	-	-	-	162	-	-
1975-S280	2442678.92	1975 Sep 23 1002:23	Nike Tomahawk	12	Sandia 152-?	LRL ACS-1E	-	-	-	TTR	-	-	-	270?	-	-
1975-S283	2442680.39	1975 Sep 24 2127	Nike Tomahawk	-	NASA 18.163UE	UTD FERRET 1	-	-	-	WI	-	-	-	273	-	-
1975-S298	2442688.64	1975 Oct 3 0315	Aerobee 200A	-	NASA 26.47DH	-	-	-	-	WS	-	-	-	212	-	-
1975-S300	2442694.95	1975 Oct 9 1045	Aerobee 170	-	NASA 13.117UL	-	-	-	-	WS	-	-	-	203	-	-
1975-S305	2442703.70	1975 Oct 18 0445	Aerobee 170	-	NASA 13.108UH	MIT UBP 3	-	-	-	WS	-	-	-	184	-	-
1975-A58	2442714.50	1975 Oct 29	Nike	-	-	-	-	-	-	TTR	-	-	-	10?	-	-
1975-S308	2442714.61	1975 Oct 29 0239	Aerobee 170A	-	NASA 13.48GG	-	-	-	-	WS	-	-	-	186	-	-
1975-A59	2442716.50	1975 Oct 31	Nike	-	-	-	-	-	-	TTR	-	-	-	10?	-	-
1975-S317	2442724.72	1975 Nov 8 0520	Aerobee 170	-	NASA 13.049UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	177	-	-
1975-A64	2442735.19	1975 Nov 18 1630	Nike Cajun	-	NASA 10.409GM	GSFC Grenade 281 W	-	-	-	WI	-	-	-	21	-	-
1975-S321	2442735.29	1975 Nov 18 1901	Nike Javelin	-	NASA 32.01WT	-	-	-	-	WI	-	-	-	163	-	-
1975-S322	2442736.24	1975 Nov 19 1745	Nike Cajun	-	NASA 10.415GM	GSFC Grenade 282 W	-	-	-	WI	-	-	-	120	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-S323	2442737.67	1975 Nov 21 0411	Nike Cajun	-	NASA 10.423GM	GSFC Grenade 283 W	-	-	-	WI	-	-	-	121	-	-
1975-S324	2442738.19	1975 Nov 21 1637:36	Nike Apache	-	SSC SO1 (T1)	SSC Range Test	-	-	-	ESR	-	-	-	131	-	-
1975-S341	2442750.21	1975 Dec 3 1657	Nike Cajun	-	NASA 10.424GM	GSFC Grenade 284 W	-	-	-	WI	-	-	-	122	-	-
1975-S342	2442750.50	1975 Dec 4	Black Brant 8B	-	AAF-NVB-01	-	-	-	-	FC	-	-	-	340	-	-
1975-S345	2442750.64	1975 Dec 4 0322	Aerobee 350	-	CRL A35.191-1	Super HI STAR	-	-	-	WS	-	-	-	286	-	-
1975-S346	2442750.73	1975 Dec 4 0525	Nike Cajun	-	NASA 10.410GM	GSFC Grenade 285 W	-	-	-	WI	-	-	-	120	-	-
1975-S348	2442752.75	1975 Dec 6 0605	Aerobee 350	-	NASA 17.16UH	SAO XRT 2	-	-	-	WS	-	-	-	221	-	-
1975-S349	2442752.82	1975 Dec 6 0742	Aerobee 170	-	NASA 13.118DG	-	-	-	-	WS	-	-	-	186	-	-
1975-S352	2442763.17	1975 Dec 16 1600	Nike Tomahawk	-	NASA 12.31GT	-	-	-	-	WS	-	-	-	241	-	-
1976-S46	2442782.10	1976 Jan 4 1430	Nike Apache	-	DLR H-NA-70	Winter Anom B-IV-1	INTA MNAE-7601	-	-	ELAR	-	-	-	129	-	-
1976-S60	2442796.22	1976 Jan 18 1712	Nike Tomahawk	-	NASA 18.1007UE	Wiinter Anom TiCl-TMA	-	-	-	WI	-	-	-	270?	-	-
1976-S66	2442799.11	1976 Jan 21 1432:09	Nike Apache	-	DLR H-NA-72/Ferd 43	Winter Anom B-IV-2	INTA MNAE-7602	-	-	ELAR	-	-	-	120	-	-
1976-S72	2442800.29	1976 Jan 22 1858:36	Nike Tomahawk	-	SSC S17-1 (EF8)	SSC S17/1 M/Dtr	-	-	-	ESR	-	-	-	208	-	-
1976-S76	2442801.45	1976 Jan 23 2245	Nike Tomahawk	-	GL A08.608-1	Winter Anomaly	-	-	-	WI	-	-	-	117	-	-
1976-S89	2442810.31	1976 Feb 1 1928:55	Nike Tomahawk	-	NASA 18.208UE	Ferdinand 45/Polar 5	-	-	-	AND	-	-	-	221	-	-
1976-A10	2442815.50	1976 Feb 7 0005:10	Nike	-	-	GI-PFRR Launcher T.	-	-	-	PF	-	-	-	1?	-	-
1976-S103	2442826.80	1976 Feb 18 0705:59	Nike Tomahawk	-	NASA 18.1001UE	-	-	-	-	PF	-	-	-	237	-	-
1976-S107	2442830.32	1976 Feb 21 1942:32	Nike Apache	-	SSC S18-2	SSC S18/2 D-Layer	-	-	-	ESR	C	-	-	105	-	-
1976-S110	2442833.31	1976 Feb 24 1920	Aerobee 170	-	GL A04.305-1	XUV	-	-	-	WS	-	-	-	221	-	-
1976-S115	2442837.01	1976 Feb 28 1212:50	Nike Tomahawk	-	NASA 18.164UE	UTD FERRET II/18.1003UE	-	-	-	PF	-	-	-	281	-	-
1976-S119	2442838.95	1976 Mar 1 1045:45	Nike Tomahawk	-	NASA 18.1002UE	-	-	-	-	PF	-	-	-	246	-	-
1976-A12	2442839.64	1976 Mar 2 0324:30	Nike Apache	-	NASA 14.461UE	Auroral NO	-	-	-	FC	-	-	-	0?	-	-
1976-S120	2442840.49	1976 Mar 2 2349:30	Nike Apache	-	SSC S21-1	SSC S21/1 TRIGGER	-	-	-	ESR	-	-	-	160	-	-
1976-S125	2442842.98	1976 Mar 5 1136	Aerobee 170	-	NASA 13.128UC	Comet West	-	-	-	WS	-	-	-	215	-	-
1976-S126	2442842.99	1976 Mar 5 1140	Aerobee 200A	-	NASA 26.50UC	JHU UVS Comet West	-	-	-	WS	-	-	-	209	-	-
1976-S128	2442844.38	1976 Mar 6 2100:16	Nike Tomahawk	-	SSC S17-2	SSC S17/2 M/Dtr	-	-	-	ESR	-	-	-	210	-	-
1976-S133	2442847.96	1976 Mar 10 1058	Aerobee 170	-	NASA 13.129GC	Comet West	-	-	-	WS	-	-	-	189	-	-
1976-S139	2442857.22	1976 Mar 19 1715	Nike Cajun	-	NASA 10.425GM	-	-	-	-	WI	-	-	-	90	-	-
1976-S140	2442859.78	1976 Mar 22 0643:40	Aerobee 170A	-	NASA 13.116UE	Auroral UV/particles	-	-	-	FC	-	-	-	182	-	-
1976-S141	2442860.75	1976 Mar 23 0600	Aerobee 200A	-	NASA 26.55GG	GSFC NGC 4151	-	-	-	WS	-	-	-	216	-	-
1976-S144	2442863.62	1976 Mar 26 0258:26	Aerobee 170	-	NASA 13.077UA	JHU Aurora 11	-	-	-	FC	-	-	-	175	-	-
1976-S145	2442864.07	1976 Mar 26 1340	Nike Hydac	-	DNA IC607.11-2C	-	-	-	-	PF	-	-	-	150?	-	-
1976-S146	2442864.38	1976 Mar 26 2100	Aerobee 200A	-	NASA 26.017AS	-	-	-	-	WS	-	-	-	203	-	-
1976-S148	2442864.78	1976 Mar 27 0643	Nike Tomahawk	-	NASA 18.176GE	-	-	-	-	PF	-	-	-	230?	-	-
1976-S149	2442865.03	1976 Mar 27 1250	Nike Tomahawk	-	NASA 18.194GE	-	-	-	-	PF	-	-	-	230?	-	-
1976-S150	2442866.04	1976 Mar 28 1300	Nike Tomahawk	-	NASA 18.195GE	-	-	-	-	PF	-	-	-	230?	-	-
1976-S152	2442868.02	1976 Mar 30 1230	Nike Tomahawk	-	NASA 18.177GE	-	-	-	-	PF	-	-	-	230?	-	-
1976-S153	2442868.04	1976 Mar 30 1256	Nike Hydac	-	NSF	Ba	-	-	-	PF	-	-	-	150?	-	-
1976-S164	2442889.64	1976 Apr 21 0315	Aerobee 200A	-	NASA 26.049DH	NRL XR	-	-	-	WS	-	-	-	202	-	-
1976-S178	2442909.87	1976 May 11 0855	Aerobee 200A	-	NASA 26.038GH	CIT Cyg X-1	-	-	-	WS	-	-	-	175	-	-
1976-S179	2442910.21	1976 May 11 1708	Aerobee 200	-	NASA 26.045CS	-	-	-	-	WS	-	-	-	248	-	-
1976-S169	2442918.50	1976 May 20	Nike Nike	-	HARSES	Smoke Payload No. 023	-	Chem release	-	WS	-	-	-	60	-	-
1976-A84	2442939.25	1976 Jun 9 1800	Nike	-	G1-8283	-	-	-	-	WI	-	-	-	20?	-	-
1976-S201	2442941.29	1976 Jun 11 1858	Nike Javelin	-	NASA 32.004WT	T2-7036	-	-	-	WI	-	-	-	130?	-	-
1976-S203	2442946.73	1976 Jun 17 0530	Aerobee 350	-	NASA 17.017UH	SAO XRT 3	-	-	-	WS	-	-	-	232	-	-
1976-S218	2442959.26	1976 Jun 29 1820	Nike Tomahawk	-	NASA 18.181GA	-	-	-	-	WS	-	-	-	270?	-	-
1976-S219	2442959.26	1976 Jun 29 1820	Aerobee 170	-	NASA 13.130GS	Solar Constant 1	-	-	-	WS	-	-	-	225	-	-
1976-S225	2442973.24	1976 Jul 13 1748	Aerobee 170A	-	NASA 12.032GT	Aerobee Reuse Test	-	-	-	WS	LC35 L-21A	-	-	183	-	-
1976-S231	2442986.17	1976 Jul 26 1559	Aerobee 170A	-	NASA 12.033GT	Aerobee Reuse Test	-	-	-	WS	-	-	-	170	-	-
1976-S222	2442987.50	1976 Jul 28	Nike Nike	-	HARSES	Smoke Payload No. 024	-	-	-	WS	-	-	-	60?	-	-
1976-S243	2442994.30	1976 Aug 3 1916	Aerobee 350	-	GL A35.191-4	ELE (Earth Limb Expt)	-	-	-	WS	-	-	-	257	-	-
1976-S244	2442995.24	1976 Aug 4 1739	Aerobee 200A	-	NASA 26.043US	-	-	-	-	WS	-	-	-	222	-	-
1976-S248	2443003.16	1976 Aug 12 1554	Nike Tomahawk	-	NASA 18.168UE	NASA 18.1006UE	-	-	-	WI	-	-	-	148	-	-
1976-A52	2443011.65	1976 Aug 21 0340	Nike Hydac	-	GL A11.605	TREP ABRES Density	Sphere	-	-	KMR	RN	-	-	15	-	-
1976-S269	2443013.25	1976 Aug 22 1755	Nike Tomahawk	-	NASA 18.209IE	CUSP II	-	-	-	SSG	-	-	-	210	-	-
1976-S271	2443017.96	1976 Aug 27 1108	Nike Tomahawk	-	NASA 18.210IE	-	-	-	-	SSG	-	-	-	270?	-	-
1976-S283	2443021.65	1976 Aug 31 0340	Nike Hydac	-	GL A11.408-1	TREP SAMSO 1202-B	Sphere	-	-	KMR	RN	-	-	188	-	-
1976-S292	2443038.21	1976 Sep 16 1700	Aerobee 170A	-	NASA 13.134CS	-	-	-	-	WS	-	-	-	177	-	-
1976-S296	2443043.04	1976 Sep 21 1252	Nike Tomahawk	-	NASA 18.178GE	-	-	-	-	PF	-	-	-	253	-	-
1976-S297	2443044.98	1976 Sep 23 1137:10	Nike Tomahawk	-	NASA 18.179GE	-	-	-	-	PF	-	-	-	235	-	-
1976-M09	2443052.04	1976 Sep 30 1253:25	Nike Tomahawk	-	NASA 18.180GE	-	-	-	-	PF	-	-	-	65	-	-
1976-A63	2443058.31	1976 Oct 6 1930	Nike Cajun	-	NASA 10.317UI	-	-	-	-	WI	-	-	-	20	-	-
1976-S314	2443081.42	1976 Oct 29 2211	Nike Tomahawk	-	NASA 18.155UA	-	-	-	-	WI	-	-	-	123	-	-
1976-S315	2443081.65	1976 Oct 30 0330	Aerobee 200A	-	NASA 26.056DG	NRL Mk II UV Camera	-	-	-	WS	-	-	-	182	-	-
1976-S325	2443100.27	1976 Nov 17 1830	Black Brant 8C	-	NASA 27.001CS	-	-	-	-	WS	-	-	-	261	-	-
1976-S328	2443101.89	1976 Nov 19 0925	Black Brant 8C	-	NASA 27.002UH	UCB EUV telescope	-	-	-	WS	-	-	-	295	-	-
1976-S338	2443110.37	1976 Nov 27 2051:41	Nike Tomahawk	-	NASA 18.206IE	Ferdinand 39 (Harang)	-	-	-	AND	-	-	-	210	-	-
1977-S36	2443152.29	1977 Jan 8 1903	Nike Tomahawk	-	NASA 18.1008UE	-	-	-	-	WI	-	-	-	138	-	-
1977-S40	2443158.53	1977 Jan 15 0050:02	Nike Apache	-	SSC S18-1	SSC S18/1 D Layer	-	-	-	ESR	C	-	-	104	-	-
1977-S42	2443158.76	1977 Jan 15 0617	Aerobee 170A	-	NASA 13.122UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	196	-	-
1977-S47	2443167.30	1977 Jan 23 1918:06	Nike Tomahawk	-	NASA 18.1005UE	-	-	-	-	AND	-	-	-	222	-	-
1977-S59	2443181.37	1977 Feb 6 2050:43	Nike Tomahawk	-	NASA 18.1004UE	-	-	-	-	AND	-	-	-	224	-	-
1977-S60	2443181.70	1977 Feb 7 0451:40	Nike Tomahawk	-	NASA 18.1011UE	-	-	-	-	PF	-	-	-	270?	-	-
1977-S69	2443185.70	1977 Feb 11 0448:40	Nike Tomahawk	-	NASA 18.1012UE	-	-	-	-	PF	-	-	-	212	-	-
1977-S73	2443186.37	1977 Feb 11 2049:07	Nike Tomahawk	-	NASA 18.213IE	SSC S21/2 TRIGGER	-	-	-	ESR	-	-	-	220	-	-
1977-S75	2443190.03	1977 Feb 15 1250	Nike Apache	-	NASA 14.500UA	Auroral NO	-	-	-	FC	-	-	-	136	-	-
1977-S76	2443190.11	1977 Feb 15 1438	Aerobee 200A	-	NASA 26.54UH	CAL XR 12	-	-	-	WOO	LA8	-	-	176	-	-
1977-S77	2443190.22	1977 Feb 15 1710	Aerobee 200A	-	NASA 26.52DH	NRL XR	-	-	-	WOO	LA8	-	-	189	-	-
1977-S78	2443190.28	1977 Feb 15 1848:10	Nike Apache	-	SSC S21/3	SSC S21/3 TRIGGER	-	-	-	ESR	-	-	-	170	-	-
1977-S82	2443191.36	1977 Feb 16 2045:07	Nike Tomahawk	-	NASA 18.212GE-IE	Ferdinand 46	-	-	-	AND	-	-	-	248	-	-
1977-S83	2443191.85	1977 Feb 17 0830	Aerobee 170	-	NASA 13.124UG	JHU UVS (Sirius B)	-	-	-	WOO	LA8	-	-	192	-	-
1977-S84	2443192.09	1977 Feb 17 1405	Aerobee 200A	-	NASA 26.57GG	-	-	-	-	WOO	LA8	-	-	197	-	-
1977-S89	2443196.10	1977 Feb 21 1430	Aerobee 200A	-	NASA 26.51UG	JHU UVT F9 (Al. Cen)	-	-	-	WOO	LA8	-	-	174	-	-
1977-S90	2443196.38	1977 Feb 21 2106	Aerobee 170	-	NASA 13.123IS	UV Extinction	-	-	-	WOO	LA8	-	-	177	-	-
1977-S91	2443198.06	1977 Feb 23 1320	Aerobee 200A	-	NASA 26.53DH	-	-	-	-	WOO	LA8	-	-	184	-	-
1977-S94	2443201.33	1977 Feb 26 2002	Nike Orion	-	NASA 31.01UA	Auroral NO	-	-	-	FC	-	-	-	142	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S99	2443207.70	1977 Mar 5 0447	Black Brant 8B	-	AAF-NVB-02	Auroral	-	-	-	FC	-	-	-	327	-	-
1977-S324	2443210.51	1977 Mar 8 0014:05	Nike Hydac	-	DNA ST707.51-1	STRESS DIANNE Probe	-	-	-	EGL	A-15A Pad 2	-	-	213	-	-
1977-S325	2443210.52	1977 Mar 8 0032:04	Nike Hydac	-	DNA ST707.51-2	STRESS DIANNE Probe	-	-	-	EGL	A-15A Pad 2	-	-	203	-	-
1977-S104	2443211.50	1977 Mar 9	Nike Orion	-	NASA 31.02UA	Auroral NO	-	-	-	FC	-	-	-	138	-	-
1977-S326	2443216.48	1977 Mar 13 2327:00	Nike Hydac	-	DNA ST707.51-3	STRESS ESTHER Probe	-	-	-	EGL	A-15A Pad 2	-	-	220	-	-
1977-S327	2443216.49	1977 Mar 13 2344:50	Nike Hydac	-	DNA ST707.51-4	STRESS ESTHER Probe	-	-	-	EGL	A-15A Pad 3	-	-	199	-	-
1977-S110	2443217.23	1977 Mar 14 1738	Nike Apache	-	DFVLR Firefly	DLR K-NA-83	-	-	-	ESR	-	-	-	250	-	-
1977-S328	2443217.48	1977 Mar 14 2325:20	Nike Hydac	-	DNA ST707.51-5	STRESS FERN Probe	-	-	-	EGL	A-15A Pad 2	-	-	249	-	-
1977-S329	2443217.50	1977 Mar 15 0003:10	Nike Hydac	-	DNA ST707.51-6	STRESS FERN Probe	-	-	-	EGL	A-15A Pad 2	-	-	222	-	-
1977-S125	2443224.77	1977 Mar 22 0630	Aerobee 200A	-	NASA 26.59UG	-	-	-	-	WS	-	-	-	189	-	-
1977-S139	2443233.50	1977 Apr	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1977-S140	2443233.50	1977 Apr	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1977-S144	2443241.77	1977 Apr 8 0623:50	Nike Tomahawk	-	NASA 18.1013GA	Auroral EUV	-	-	-	FC	-	-	-	157	-	-
1977-S149	2443255.21	1977 Apr 21 1700:00	Aerobee 170	-	GL A04.410-02	-	-	-	-	WS	-	-	-	237	-	-
1977-S154	2443263.50	1977 May	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1977-S167	2443282.07	1977 May 18 1343	Nike Hydac	-	GL A11.712-1	ABRES Density/TDV-1	Sphere (10in)	-	-	KMR	RN	-	-	188	-	-
1977-A30	2443284.46	1977 May 20 2309	Aerobee 170A	-	NASA 13.131DA	-	-	-	-	WS	-	-	-	23	-	-
1977-S169	2443288.81	1977 May 25 0725	Aerobee 200A	-	NASA 26.061UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	192	-	-
1977-S196	2443303.74	1977 Jun 9 0540	Black Brant 8C	-	NASA 27.08UH	SAO XRT 4	-	-	-	WS	-	-	-	205	-	-
1977-S213	2443336.74	1977 Jul 12 0545	Nike Orion	-	NASA 31.05UA	-	-	-	-	WS	-	-	-	113	-	-
1977-S219	2443351.69	1977 Jul 27 0440	Black Brant 8C	-	NASA 27.31UH	SAO XRT 5	-	-	-	WS	-	-	-	203	-	-
1977-S228	2443365.71	1977 Aug 10 0501	Nike Apache	-	NASA 14.534UE	-	-	-	-	WI	-	-	-	200	-	-
1977-S231	2443373.22	1977 Aug 17 1710	Nike Tomahawk	-	NASA 18.182GA	-	-	-	-	WS	-	-	-	198	-	-
1977-S233	2443374.48	1977 Aug 18 2335	Nike Tomahawk	-	NASA 18.1009UE	-	-	-	-	WS	-	-	-	267	-	-
1977-S237	2443386.50	1977 Sep	Nike Hydac	?	HARSES	-	-	-	-	WS	-	-	-	150?	-	-
1977-S252	2443411.00	1977 Sep 24 1155	Nike Iroquois	-	GL A07.707-1	DMSP CHEM	-	-	-	WS	-	-	-	189	-	-
1977-S256	2443418.62	1977 Oct 2 0300	Aerobee 200A	-	NASA 26.65IH-UH	SAO XR/Italy XR	-	-	-	WS	-	-	-	198	-	-
1977-S264	2443437.87	1977 Oct 21 0849:00	Black Brant 8C	-	SSC S19B	S19 Guidance Test	-	-	-	ESR	MRL	-	-	374	-	-
1977-A48	2443467.49	1977 Nov 19 2352	Nike	-	NERDD	-	-	-	-	PF	-	-	-	1?	-	-
1977-S297	2443483.50	1977 Dec 6 0005	Black Brant 8B	-	AAF-NVB-03	Dayside Cusp	-	-	-	CP	-	-	-	300	-	-
1977-S298	2443488.75	1977 Dec 11 0600	Aerobee 200A	-	NASA 26.60GG	-	-	-	-	WS	-	-	-	177	-	-
1977-S300	2443489.19	1977 Dec 11 1630	Nike Tomahawk	-	NASA 18.183GA	-	-	-	-	WS	-	-	-	196	-	-
1977-A50	2443490.46	1977 Dec 12 2300	Black Brant 8B	-	AAF-NVB-04	Dayside Cusp	-	-	-	CP	-	-	-	10	-	-
1977-S302	2443490.74	1977 Dec 13 0550	Aerobee 170	-	GL A04.602	PRECEDE	-	-	-	WS	-	-	-	102	-	-
1977-S304	2443491.71	1977 Dec 14 0500	Nike Orion	-	NASA 31.03UA	-	-	-	-	WS	-	-	-	140?	-	-
1978-S41	2443513.71	1978 Jan 5 0501	Nike Apache	-	NASA 14.533UE	-	-	-	-	WI	-	-	-	197	-	-
1978-S52	2443539.37	1978 Jan 30 2052:10	Nike Tomahawk	-	NASA 18.211IE/UE	-	-	-	-	AND	-	-	-	220	-	-
1978-S55	2443540.27	1978 Jan 31 1835	Black Brant 8C	-	NASA 27.029CS	-	-	-	-	WS	-	-	-	273	-	-
1978-A05	2443543.85	1978 Feb 4 0820	Aerobee 200A	-	NASA 26.063UH	Wisc. Aerobee IV?	-	-	-	WS	-	-	-	29	-	-
1978-S77	2443566.74	1978 Feb 27 0543:36	Nike Tomahawk	-	NASA 18.1017UE	-	-	-	-	PF	-	-	-	270?	-	-
1978-S80	2443567.68	1978 Feb 28 0417	Nike Tomahawk	-	NASA 18.1015UE	-	-	-	-	PF	-	-	-	270?	-	-
1978-S83	2443568.24	1978 Feb 28 1752	Aerobee 170	-	NASA 13.136DA	-	-	-	-	WS	-	-	-	223	-	-
1978-S84	2443568.55	1978 Mar 1 0113:00	Nike Apache	-	Ferdinand 47	Ferd. 47/Bugatti 1	-	-	-	AND	-	-	-	128	-	-
1978-S85	2443568.55	1978 Mar 1 0113:01	Nike Apache	-	Ferdinand 48	Ferd. 48/Trinom 1	-	-	-	AND	-	-	-	109	-	-
1978-S88	2443569.68	1978 Mar 2 0423	Nike Tomahawk	-	NASA 18.1016UE	-	-	-	-	PF	-	-	-	270?	-	-
1978-S91	2443578.05	1978 Mar 10 1315:31	Nike Tomahawk	-	NASA 18.1018UE	-	-	-	-	PF	-	-	-	270?	-	-
1978-S96	2443594.94	1978 Mar 27 1027	Nike Tomahawk	-	NASA 18.215GM	-	-	-	-	PF	-	-	-	219	-	-
1978-S98	2443597.20	1978 Mar 29 1650	Nike Tomahawk	-	NASA 18.214GM	-	-	-	-	PF	-	-	-	231	-	-
1978-A14	2443604.00	1978 Apr 5 1158	Nike Hydac	-	GL A11.712-3	DENSITY sphere	-	-	-	KMR	-	-	-	26	-	-
1978-S102	2443604.02	1978 Apr 5 1226	Nike Hydac	-	GL A11.712-4	DENSITY sphere	-	-	-	KMR	-	-	-	175	-	-
1978-S104	2443607.70	1978 Apr 9 0450	Black Brant 8B	-	NASA 27.10AE	E // B	-	-	-	FC	-	-	-	247	-	-
1978-S105	2443609.67	1978 Apr 11 0400	Black Brant 8C	-	NASA 27.26UH	-	-	-	-	WS	-	-	-	303	-	-
1978-S113	2443612.31	1978 Apr 13 1922:56	Nike Orion	-	NASA 31.06UE	SSC S27 TWILIGHT	-	-	-	ESR	MRL	-	-	153	-	-
1978-S131	2443634.79	1978 May 6 0700	Aerobee 170A	-	NASA 13.137UH	Wisc. Aerobee IV	-	-	-	WS	-	-	-	200	-	-
1978-S271	2443636.99	1978 May 8 1139	Nike Tomahawk	-	-	DNA Avefria Uno	-	-	-	TTR	-	-	-	192	-	-
1978-S139	2443645.35	1978 May 16 2030	Aerobee 170	-	GL A04.606-1	EUV/Sphere	-	-	-	WS	-	-	-	191	-	-
1978-S272	2443646.99	1978 May 18 1145?	Nike Tomahawk	-	-	DNA Avefria Dos	-	-	-	TTR	-	-	-	192	-	-
1978-M02	2443648.90	1978 May 20 0929	Nike Nike	-	GL A45.710-1	SMOKE	-	-	-	WI	-	-	-	53	-	-
1978-M03	2443650.89	1978 May 22 0927	Nike Nike	-	GL A45.710-2	SMOKE	-	-	-	WI	-	-	-	54	-	-
1978-S153	2443670.77	1978 Jun 11 0632	Nike Apache	-	NASA 14.539UE	JASPIC Rel TMA	-	-	-	WI	-	-	-	220	-	-
1978-S157	2443674.50	1978 Jun 15	Nike Tomahawk	-	NASA 18.1023UE	-	-	-	-	WI	-	-	-	265	-	-
1978-S160	2443679.68	1978 Jun 20 0415	Nike Apache	-	NASA 14.543UE	JASPIC	-	-	-	WI	-	-	-	184	-	-
1978-S165	2443685.59	1978 Jun 26 0208	Nike Tomahawk	-	NASA 18.1019CE	JASPIC	-	-	-	WI	-	-	-	315	-	-
1978-S191	2443720.47	1978 Jul 30 2313:00	Nike Orion	-	-	SSC S32 NLC-OBS	-	-	-	ESR	-	-	-	134	-	-
1978-S197	2443735.11	1978 Aug 14 1445	Black Brant 8C	-	NASA 27.34DS	HRTS-3	-	-	-	WS	-	-	-	220	-	-
1978-A46	2443764.54	1978 Sep 13 0053	Nike Nike	-	GL A45.709-1	SMOKE	-	-	-	FC	-	-	-	45	-	-
1978-A47	2443764.97	1978 Sep 13 1113	Nike Nike	-	GL A45.709-2	SMOKE	-	-	-	FC	-	-	-	45	-	-
1978-S210	2443767.38	1978 Sep 15 2100	Nike Tomahawk	-	GL A08.708-1	CLUSTER ION	-	-	-	WS	-	-	-	114	-	-
1978-S211	2443771.27	1978 Sep 19 1830	Aerobee 170	-	GL A04.711-1	SOLAR UV	-	-	-	WS	-	-	-	192	-	-
1978-S215	2443778.73	1978 Sep 27 0530	Nike Apache	-	NASA 14.542UE	JASPIC	-	-	-	WI	-	-	-	183	-	-
1978-S219	2443807.89	1978 Oct 26 0916:31	Nike Hydac	-	DNA IC807.15-1	SWIR DYNAMICS	-	-	-	PF	-	-	-	122	-	-
1978-S220	2443807.89	1978 Oct 26 0920:20	Nike Javelin	-	DNA IC806.35-1	DYNAMICS	-	-	-	PF	-	-	-	130?	-	-
1978-S221	2443807.90	1978 Oct 26 0929	Nike Hydac	-	DNA IR807.57-1	ENERGY	-	-	-	PF	-	-	-	160	-	-
1978-S226	2443815.56	1978 Nov 3 0120	Aerobee 170A	-	NASA 13.135UE	UM Airglow Pay.	-	-	-	WS	-	-	-	151	-	-
1978-S233	2443829.26	1978 Nov 16 1815	Aerobee 170A	-	NASA 13.138GS	Solar Constant 2	-	-	-	WS	-	-	-	182	-	-
1978-S236	2443837.70	1978 Nov 25 0444:10	Black Brant 8B	-	AAF-NVB-05	Gush CMB 4	-	-	-	FC	-	-	-	366	-	-
1978-S238	2443840.29	1978 Nov 27 1855:00	Nike Tomahawk	-	NASA 18.207IE	Ferdinand 41 (Elec 3)	-	-	-	AND	-	-	-	202	-	-
1978-S239	2443840.29	1978 Nov 27 1855:35	Nike Tomahawk	-	NASA 18.216IE	Ferdinand 40 (Elec 2)	-	-	-	AND	-	-	-	193	-	-
1978-S252	2443853.50	1978 Dec 11	Nike Tomahawk	-	NASA 18.1024UA	-	-	-	-	WS	-	-	-	228	-	-
1979-S49	2443901.38	1979 Jan 27 2101:59	Black Brant 8C	-	SSC S23H	Substorm-GEOS	-	-	-	ESR	MRL	-	-	414	-	-
1979-S72	2443929.20	1979 Feb 24 1652	Nike Tomahawk	-	NASA 18.1020UE	Range check	-	-	-	RLAKE	CHK	-	-	130	-	-
1979-S77	2443931.19	1979 Feb 26 1628:00	Nike Orion	-	GL A12.9A1	Eclipse ASL-SE-79A1	-	-	-	RLAKE	CHK	-	-	158	-	-
1979-S78	2443931.19	1979 Feb 26 1628:30	Nike Orion	-	GL A12.9B1	Eclipse ASL-SE-79B1	-	-	-	RLAKE	CHK	-	-	158	-	-
1979-S80	2443931.20	1979 Feb 26 1651:55	Nike Orion	-	GL A12.9A2	Eclipse LWIR	-	-	-	RLAKE	CHK	-	-	141	-	-
1979-S81	2443931.20	1979 Feb 26 1652:00	Nike Tomahawk	-	NASA 18.1021UE	Eclipse	-	-	-	RLAKE	CHK	-	-	132	-	-
1979-S83	2443931.20	1979 Feb 26 1654:10	Nike Tomahawk	-	NASA 18.1022UE	Eclipse	-	-	-	RLAKE	CHK	-	-	132	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-S76	2443931.49	1979 Feb 26 2348	Nike Iroquois	-	GL A07.712-2	Eclipse DEN Sphere	-	-	-	RLAKE	CHK	-	-	215	-	-
1979-S121	2443977.42	1979 Apr 13 2205	Black Brant 8C	-	NASA 27.33AS-US	CfA/HAO Rocket Coron. 1	-	-	-	WS	-	-	-	268	-	-
1979-S123	2443978.89	1979 Apr 15 0925	Nike Tomahawk	-	NASA 18.218GE	-	-	-	-	PF	-	-	-	270?	-	-
1979-S126	2443981.89	1979 Apr 18 0915	Nike Tomahawk	-	NASA 18.217GE	-	-	-	-	PF	-	-	-	270?	-	-
1979-S130	2443984.92	1979 Apr 21 1010	Black Brant 8C	-	NASA 27.38UE	-	-	-	-	WS	-	-	-	317	-	-
1979-S144	2444030.22	1979 Jun 5 1715	Black Brant 8C	-	NASA 27.28US	-	-	-	-	WS	-	-	-	325	-	-
1979-S150	2444045.73	1979 Jun 21 0525	Black Brant 8C	-	NASA 27.040UG	-	-	-	-	WS	-	-	-	215	-	-
1979-S156	2444058.19	1979 Jul 3 1630	Black Brant 8C	-	NASA 27.32CS	XSST/TRC 1	-	-	-	WS	-	-	-	300	-	-
1979-S167	2444075.21	1979 Jul 20 1700?	Nike Tomahawk	-	NASA 18.1026GU	-	-	-	-	WS	-	-	-	270?	-	-
1979-S185	2444100.20	1979 Aug 14 1650	Nike Tomahawk	-	GL A08.705-2	DMSP MS	-	-	-	WS	-	-	-	190	-	-
1979-S184	2444100.26	1979 Aug 14 1810:00	Nike Orion	-	SSC T3 Test	Dummy Orion	-	-	-	ESR	-	-	-	11	-	-
1979-A35	2444100.32	1979 Aug 14 1940	Nike Tomahawk	-	GL A08.706-2	DMSP DENS	-	-	-	WS	-	-	-	18	-	-
1979-S186	2444100.35	1979 Aug 14 2020	Aerobee 170	-	GL A04.703	DMSP UV	-	-	-	WS	-	-	-	178	-	-
1979-S190	2444106.55	1979 Aug 21 0114:16	Nike Orion	-	NASA 31.16UE	SSC S27B Twilight B	-	-	-	ESR	MRL?	-	-	149	-	-
1979-S199	2444127.50	1979 Sep 11	Nike Orion	-	NASA 31.04IU	Ozone payload test	-	-	-	WI	-	-	-	83	-	-
1979-S208	2444141.35	1979 Sep 24 2020:10	Black Brant 8C	-	NASA 27.39UE	SSC S29 Barium-GEOS	-	-	-	ESR	MRL	-	-	397	-	-
1979-S220	2444164.03	1979 Oct 17 1240:00	Black Brant 8C	-	NASA 27.16NP	SPAR 6	-	-	-	WS	LC36	-	-	185	-	-
1979-S224	2444168.18	1979 Oct 21 1625	Nike Orion	-	NASA 31.10IU	WI T2-9915	-	-	-	WI	-	-	-	140?	-	-
1979-S225	2444168.24	1979 Oct 21 1748	Nike Orion	-	NASA 31.09IU	WI T2-9914	-	-	-	WI	-	-	-	140?	-	-
1979-S226	2444167.50	1979 Oct 21	Nike Orion	-	NASA 31.08IU	-	-	-	-	WI	-	-	-	140?	-	-
1979-S228	2444169.20	1979 Oct 22 1650	Nike Orion	-	DLR N-NO-98	Natal 6	-	-	-	CLBI	-	-	-	140?	-	-
1979-S232	2444173.41	1979 Oct 26 2145	Nike Orion	-	DLR N-NO-99	Natal 6	-	-	-	CLBI	-	-	-	140?	-	-
1979-M01	2444170.46	1979 Oct 23 2304	Nike Nike	-	GL A45.803-1	SMOKE	-	-	-	CHI	-	-	-	50	-	-
1979-M02	2444171.48	1979 Oct 24 2324	Nike Nike	-	GL A45.803-2	SMOKE	-	-	-	CHI	-	-	-	50	-	-
1979-M03	2444176.46	1979 Oct 29 2304	Nike Nike	-	GL A45.803-3	SMOKE	-	-	-	CHI	-	-	-	50	-	-
1979-S233	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.13IU	Ozone Intercomp	-	-	-	WI	-	-	-	140?	-	-
1979-S234	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.12IU	Ozone Intercomp	-	-	-	WI	-	-	-	140?	-	-
1979-S235	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.11IU	Ozone Intercomp	-	-	-	WI	-	-	-	140?	-	-
1979-S237	2444185.37	1979 Nov 7 2050	Black Brant 8C	-	NASA 27.30CS	-	-	-	-	WS	-	-	-	271	-	-
1979-S246	2444210.73	1979 Dec 3 0532:47	Black Brant 8B	-	AAF-NVB-06	Auroral substorm	-	-	-	FC	-	-	-	344	-	-
1980-S29	2444263.22	1980 Jan 24 1721:59	Nike Tomahawk	-	Ferdinand 50	Ferd. 50/COROBIER	-	-	-	AND	-	-	-	202	-	-
1980-S44	2444285.85	1980 Feb 16 0823?	Black Brant 8C	-	NASA 27.43AS	LASL Eclipse La	-	-	-	SMLC	-	-	-	319	-	-
1980-S45	2444285.85	1980 Feb 16 0823:30	Black Brant 8C	-	NASA 27.42AS	LASL Eclipse La	-	-	-	SMLC	-	-	-	298	-	-
1980-S48	2444286.19	1980 Feb 16 1632	Black Brant 8C	-	NASA 27.37US	CfA/HAO Rocket Coron. 2	-	-	-	WS	-	-	-	268	-	-
1980-S55	2444290.54	1980 Feb 21 0053:49	Nike Tomahawk	-	Ferdinand 49	PULSAUR I	-	-	-	AND	-	-	-	196	-	-
1980-S84	2444335.65	1980 Apr 6 0333:01	Black Brant 8B	-	AAF-NVB-07	WATERHOLE 1	-	-	-	FC	-	-	-	307	-	-
1980-S107	2444374.23	1980 May 14 1730	Black Brant 8C	-	NASA 27.18NP	SPAR 7	-	-	-	WS	-	-	-	204	-	-
1980-S123	2444400.99	1980 Jun 10 1145	Black Brant 8C	-	NASA 27.46AS	-	-	-	-	WS	-	-	-	298	-	-
1980-S126	2444414.73	1980 Jun 24 0530	Black Brant 8C	-	NASA 27.41UH	-	-	-	-	WS	-	-	-	213	-	-
1980-S144	2444436.21	1980 Jul 15 1700	Black Brant 8C	-	NASA 27.44US	-	-	-	-	WS	-	-	-	322	-	-
1980-S151	2444465.61	1980 Aug 14 0240	Nike Orion	-	NASA 31.21UE	-	-	-	-	WI	-	-	-	90	-	-
1980-S173	2444501.19	1980 Sep 18 1630	Aerobee 170	-	GL A04.801	UV	-	-	-	WS	-	-	-	197	-	-
1980-S175	2444506.35	1980 Sep 23 2025	Black Brant 8C	-	NASA 27.36CS	XSST/TRC 2	-	-	-	WS	-	-	-	296	-	-
1980-S177	2444509.44	1980 Sep 26 2235	Black Brant 8C	-	NASA 27.35DH	-	-	-	-	WS	-	-	-	300	-	-
1980-S195	2444554.51	1980 Nov 11 0012:00	Nike Apache	-	Ferdinand 54	EBC-C E4 Bugatti II	-	-	-	AND	-	-	-	123	-	-
1980-S196	2444554.51	1980 Nov 11 0012:12	Nike Orion	-	DLR A-NO-101	EBC-C Ferd.57/Trinom	-	-	-	AND	-	-	-	146	-	-
1980-S197	2444554.52	1980 Nov 11 0027:00	Nike Orion	-	DLR K-NO-105	EBC-C E6C	-	-	-	ESR	-	-	-	198	-	-
1980-S203	2444559.65	1980 Nov 16 0331:00	Nike Apache	-	Ferdinand 53	EBC-B E4 Bugatti II	-	-	-	AND	-	-	-	124	-	-
1980-S204	2444559.65	1980 Nov 16 0331:12	Nike Orion	-	DLR A-NO-102	EBC-B Ferd.55/Trinom	-	-	-	AND	-	-	-	149	-	-
1980-S208	2444559.70	1980 Nov 16 0447	Nike Orion	-	DLR K-NO-106	EBC-B E6A1 S10.12-1?	-	-	-	ESR	-	-	-	165	-	-
1980-S210	2444562.53	1980 Nov 19 0050	Black Brant 8C	-	NASA 27.19NP	SPAR 8 (R-19)	-	-	-	WS	-	-	-	198	-	-
1980-S214	2444571.64	1980 Nov 28 0324:36	Nike Apache	-	Ferdinand 52	EBC-A E4 Bugatti II	-	-	-	AND	-	-	-	97	-	-
1980-S215	2444571.64	1980 Nov 28 0324:48	Nike Orion	-	DLR A-NO-103	EBC-A Ferd.56 Trinom	-	-	-	AND	-	-	-	146	-	-
1980-S219	2444574.51	1980 Dec 1 0009:00	Nike Orion	-	DLR K-NO-107	EBC-A2 E6A2	-	-	-	ESR	-	-	-	161	-	-
1980-S220	2444574.56	1980 Dec 1 0123:40	Nike Orion	-	DLR K-NO-108	EBC-A2 E6B	-	-	-	ESR	-	-	-	172	-	-
1980-S228	2444582.77	1980 Dec 9 0630	Black Brant 8C	-	NASA 27.47GG	-	-	-	-	WS	-	-	-	301	-	-
1980-S233	2444586.22	1980 Dec 12 1719	Nike Tomahawk	-	NASA 18.203UE	-	-	-	-	SIP	RAG	-	-	211	-	-
1980-S278	2444590.03	1980 Dec 16 1249	Nike Apache	-	INTA NA/FL-8001	-	-	-	-	ELAR	-	-	-	150?	-	-
1980-S279	2444591.99	1980 Dec 18 1144	Nike Apache	-	INTA NA/FL-8002	-	-	-	-	ELAR	-	-	-	150?	-	-
1980-S239	2444594.23	1980 Dec 20 1732	Nike Tomahawk	-	NASA 18.204UE	-	-	-	-	SIP	RAG	-	-	200	-	-
1981-S49	2444615.27	1981 Jan 10 1822	Nike Tomahawk	-	NASA 18.205UE	-	-	-	-	SIP	RAG	-	-	198	-	-
1981-S53	2444625.52	1981 Jan 21 0025	Black Brant 8C	-	NASA 27.17NP	SPAR 9	-	-	-	WS	-	-	-	209	-	-
1981-S64	2444643.35	1981 Feb 7 2030:40	Nike Orion	-	SSC S35	OXYGEN	-	-	-	ESR	S	-	-	145	-	-
1981-S67	2444649.22	1981 Feb 13 1715	Black Brant 8C	-	NASA 27.50CS	-	-	-	-	WS	-	-	-	265	-	-
1981-S81	2444672.17	1981 Mar 8 1600	Nike Orion	-	NASA 31.07UL	CWAS 1	-	-	-	FC	-	-	-	140?	-	-
1981-S83	2444677.17	1981 Mar 13 1600	Nike Orion	-	NASA 31.17UL	CWAS 2	-	-	-	FC	-	-	-	140?	-	-
1981-S85	2444687.62	1981 Mar 24 0300	Black Brant 8C	-	NASA 27.55UH	XUV Telescope	-	-	-	WS	-	-	-	261	-	-
1981-S89	2444693.75	1981 Mar 30 0552:55	Nike Orion	-	-	LADY LOU Ba	-	-	-	PF	-	-	-	140?	-	-
1981-S95	2444697.76	1981 Apr 3 0620:55	Nike Orion	-	-	KLONDIKE KATE Ba	-	-	-	PF	-	-	-	140?	-	-
1981-S107	2444728.83	1981 May 4 0755	Black Brant 8C	-	NASA 27.58UH	Soft XRB 2	-	-	-	WS	-	-	-	294	-	-
1981-S108	2444730.83	1981 May 6 0800	Black Brant 8C	-	NASA 27.60UL	-	-	-	-	WS	-	-	-	322	-	-
1981-S139	2444825.50	1981 Aug 9	Nike Orion	-	NASA 31.22UE	-	-	-	-	WI	-	-	-	92	-	-
1981-S159	2444878.47	1981 Sep 30 2320:00	Black Brant 8C	-	SSC S33	PIRAT	-	-	-	ESR	MRL	-	-	270	-	-
1981-S161	2444891.74	1981 Oct 14 0547	Nike Orion	-	NASA 31.14UE	UIUC TR	UIUC EPS	-	-	WI	-	-	-	197	-	-
1981-S162	2444893.50	1981 Oct 16	Nike Tomahawk	-	NASA 18.1027GU	-	-	-	-	WS	-	-	-	270?	-	-
1981-S165	2444903.29	1981 Oct 25 1901:00	Nike Tomahawk	-	Polar 6	Ferdinand 51	-	-	-	AND	-	-	-	184	-	-
1981-S169	2444925.50	1981 Nov 17	Black Brant 8B	-	NASA 27.57UH	CAL XR 13	-	-	-	WS	-	-	-	253	-	-
1981-S170	2444926.60	1981 Nov 18 0225	Black Brant 8B	-	NASA 27.09DH	-	-	-	-	WS	-	-	-	253	-	-
1981-S171	2444932.27	1981 Nov 23 1835	Black Brant 8C	-	NASA 27.52US	-	-	-	-	WS	-	-	-	322	-	-
1982-S37	2444989.52	1982 Jan 20 0030:15	Nike Orion	-	NASA 31.18GE	-	-	-	-	PF	-	-	-	94	-	-
1982-S43	2444993.01	1982 Jan 23 1212	Nike Orion	-	NASA 31.25GE	-	-	-	-	PF	-	-	-	140?	-	-
1982-S44	2444993.01	1982 Jan 23 1213	Nike Orion	-	NASA 31.19GE	-	-	-	-	PF	-	-	-	101	-	-
1982-S45	2444994.03	1982 Jan 24 1245	Nike Orion	-	NASA 31.24GE	-	-	-	-	PF	-	-	-	140?	-	-
1982-S47	2444996.66	1982 Jan 27 0352	Black Brant 8C	-	NASA 27.45UE	SCEX	-	-	-	FC	-	-	-	239	-	-
1982-S58	2445020.17	1982 Feb 19 1600	Nike Orion	-	NASA 31.23UL	CWAS 3	-	-	-	FC	-	-	-	140?	-	-
1982-S78	2445041.50	1982 Mar 13	Aerobee 350	-	NASA 17.18DG	NRL Mk II UV Camera	-	-	-	WS	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-S105	2445074.81	1982 Apr 15 0720	Nike Tomahawk	-	NASA 18.1028GE	-	-	-	-	PF	-	-	-	270?	-	-
1982-S108	2445075.81	1982 Apr 16 0732	Nike Tomahawk	-	NASA 18.1029GE	-	-	-	-	PF	-	-	-	270?	-	-
1982-S106	2445076.76	1982 Apr 17 0615	Black Brant 8C	-	NASA 27.59GG	UIT	-	-	-	WS	-	-	-	279	-	-
1982-S130	2445142.50	1982 Jun 22	Black Brant 8C	-	NASA 27.68AH	-	-	-	-	WS	-	-	-	245	-	-
1982-M05	2445144.15	1982 Jun 23 1540	Nike Orion	-	NASA 31.30GE	VLF SEEP 1	-	-	-	WI	-	-	-	85	-	-
1982-M06	2445157.88	1982 Jul 7 0901	Nike Orion	-	NASA 31.31GE	VLF SEEP 2	-	-	-	WI	-	-	-	80	-	-
1982-S136	2445164.19	1982 Jul 13 1630	Black Brant 8C	-	NASA 27.54CS	XSST/TRC 3	-	-	-	WS	-	-	-	302	-	-
1982-S137	2445165.50	1982 Jul 15	Nike Orion	-	NASA 31.15UE	-	-	-	-	WI	-	-	-	140?	-	-
1982-S140	2445170.50	1982 Jul 20	Black Brant 8C	-	NASA 27.53US	CfA/HAO Rocket Coron. 3	-	-	-	WS	-	-	-	254	-	-
1982-S145	2445185.46	1982 Aug 3 2302:00	Nike Orion	-	SSC S37 CAMP-N	Cold Arctic Mesopause	-	-	-	ESR	C	-	-	119	-	-
1982-S144	2445185.47	1982 Aug 3 2319:10	Nike Orion	-	DLR K-NO-115	Strafam 1/2	-	-	-	ESR	MAN	-	-	114	-	-
1982-S146	2445185.48	1982 Aug 3 2332:00	Nike Orion	-	SSC S37 CAMP-P	CAMP-P	-	-	-	ESR	C	-	-	119	-	-
1982-S147	2445185.49	1982 Aug 3 2348:30	Nike Orion	-	SSC S37 SOAP/1	SOAP-1	-	-	-	ESR	MRL	-	-	134	-	-
1982-S142	2445185.51	1982 Aug 4 0016:00	Nike Orion	-	-	CAMP TAD	-	-	-	ESR	S	-	-	153	-	-
1982-S150	2445191.12	1982 Aug 9 1500	Nike Orion	-	NASA 31.34UU	CWAS 4	-	-	-	WS	-	-	-	140?	-	-
1982-S151	2445192.22	1982 Aug 10 1716	Black Brant 8C	-	NASA 27.76UL	EUV Abs Cal	-	-	-	WS	-	-	-	323	-	-
1982-S152	2445193.52	1982 Aug 12 0030:15	Nike Orion	-	SSC S37 SOAP/2	SOAP-2	-	-	-	ESR	MRL	-	-	135	-	-
1982-S159	2445221.40	1982 Sep 8 2142	Black Brant 8B	-	GL A19.124-1	BIME	-	-	-	CLBI	-	-	-	321	-	-
1982-S164	2445226.38	1982 Sep 13 2105	Black Brant 8B	-	GL A19.124-2	BIME	-	-	-	CLBI	-	-	-	333	-	-
1982-S172	2445248.13	1982 Oct 5 1510:24	Nike Tomahawk	-	Ferdinand 61	Hero 4	-	-	-	AND	Haugnes	-	-	296	-	-
1982-S180	2445265.76	1982 Oct 23 0617:08	Nike Tomahawk	-	Ferdinand 60	Hero 3	-	-	-	AND	Haugnes	-	-	297	-	-
1982-S181	2445265.83	1982 Oct 23 0800	Black Brant 8C	-	NASA 27.48UG	FUV Echelle	-	-	-	WS	-	-	-	262	-	-
1982-S190	2445288.83	1982 Nov 15 0800	Aerobee 350	-	NASA 17.19DG	-	-	-	-	WS	-	-	-	300?	-	-
1982-A34	2445290.27	1982 Nov 16 1830	Black Brant 8C	-	NASA 27.73US	-	-	-	-	WS	-	-	-	10?	-	-
1982-S195	2445305.15	1982 Dec 1 1530:24	Nike Tomahawk	-	Ferdinand 59	Hero 2	-	-	-	AND	Haugnes	-	-	295	-	-
1982-S199	2445318.10	1982 Dec 14 1422:09	Nike Tomahawk	-	Ferdinand 58	Hero 1	-	-	-	AND	Haugnes	-	-	296	-	-
1983-S62	2445393.19	1983 Feb 27 1633	Nike Orion	-	NASA 31.28UE	CONDOR UIUC Ionos	-	-	-	CHI	PLOB	-	-	206	-	-
1983-S68	2445402.19	1983 Mar 8 1635	Nike Orion	-	NASA 31.26GE	CONDOR GSFC-PSU	-	-	-	CHI	PLOB	-	-	108?	-	-
1983-S69	2445402.63	1983 Mar 9 0306	Nike Orion	-	NASA 31.27GE	CONDOR GSFC-PSU	-	-	-	CHI	PLOB	-	-	108?	-	-
1983-S70	2445402.64	1983 Mar 9 0327	Nike Orion	-	NASA 31.32GE	CONDOR GSFC E	-	-	-	CHI	PLOB	-	-	140?	-	-
1983-S71	2445402.87	1983 Mar 9 0857	Nike Orion	-	NASA 31.33GE	CONDOR GSFC E	-	-	-	CHI	PLOB	-	-	140?	-	-
1983-S74	2445406.21	1983 Mar 12 1709	Nike Orion	-	NASA 31.29UE	CONDOR UIUC Ionos	-	-	-	CHI	PLOB	-	-	205	-	-
1983-S90	2445444.33	1983 Apr 19 2000	Aerobee 170	-	GL A04.902	UV	-	-	-	WS	-	-	-	204	-	-
1983-S98	2445466.74	1983 May 12 0546:56	Black Brant 8B	-	AAF-VIIIB-8	SABRE	-	-	-	FC	-	-	-	350	-	-
1983-S100	2445468.79	1983 May 14 0655	Black Brant 8C	-	NASA 27.67UH	CAL XR 14	-	-	-	WS	-	-	-	246	-	-
1983-S114	2445501.79	1983 Jun 16 0651	Nike Hydac	-	GL A11.074	STATE	-	-	-	PF	-	-	-	134	-	-
1983-S116	2445502.88	1983 Jun 17 0900	Black Brant 8C	-	NASA 27.72NP	SPAR 10	-	-	-	WS	-	-	-	212	-	-
1983-S123	2445514.69	1983 Jun 29 0435	Black Brant 8C	-	NASA 27.27UH	-	-	-	-	WS	-	-	-	289	-	-
1983-S130	2445541.05	1983 Jul 25 1315	Black Brant 8C	-	NASA 27.81US	-	-	-	-	WS	-	-	-	318	-	-
1983-S145	2445554.75	1983 Aug 8 0600	Black Brant 8C	-	NASA 27.61UE	-	-	-	-	WS	-	-	-	239	-	-
1983-S147	2445563.22	1983 Aug 16 1721	Black Brant 8C	-	NASA 27.79UL	EUV Abs Cal	-	-	-	WS	-	-	-	314	-	-
1983-S152	2445577.12	1983 Aug 30 1500	Nike Orion	-	NASA 31.35UU	CWAS 5	-	-	-	WS	-	-	-	140?	-	-
1983-S161	2445585.12	1983 Sep 7 1500	Nike Orion	-	NASA 31.40UU	CWAS 6	-	-	-	WS	-	-	-	140?	-	-
1983-S166	2445598.20	1983 Sep 20 1651	Black Brant 8C	-	NASA 27.56GS	SERTS-1	-	-	-	WS	-	-	-	308	-	-
1983-S185	2445614.84	1983 Oct 7 0805	Black Brant 8B	-	NASA 27.69UG	FUV Echelle?	-	-	-	WS	-	-	-	258	-	-
1983-S186	2445614.94	1983 Oct 7 1030	Black Brant 8B	-	NASA 27.80UL	-	-	-	-	WS	-	-	-	311	-	-
1983-S200	2445647.72	1983 Nov 9 0515	Nike Tomahawk	-	GL A08.708-2	IMS Release (SF6)	-	-	-	WI	-	-	-	348	-	-
1983-S202	2445655.95	1983 Nov 17 1041	Nike Orion	-	NASA 31.36GE	-	-	-	-	WI	-	-	-	140?	-	-
1983-S203	2445657.95	1983 Nov 19 1041	Nike Orion	-	NASA 31.37GE	VLF Trigg Elec	-	-	-	WI	-	-	-	140?	-	-
1983-S204	2445657.95	1983 Nov 19 1046	Nike Orion	-	NASA 31.39GE	VLF Trigg Elec	-	-	-	WI	-	-	-	140?	-	-
1983-S209	2445676.25	1983 Dec 7 1800	Black Brant 8C	-	NASA 27.77UU	-	-	-	-	WS	-	-	-	357	-	-
1983-M03	2445676.27	1983 Dec 7 1823:00	Nike Orion	-	DLR A-NO-121	Ferdinand 71 M-T 1	-	-	-	AND	-	-	-	78	-	-
1984-S40	2445706.41	1984 Jan 6 2155	Nike Orion	-	DLR A-NO-122	Ferdinand 66 M-T 2	-	-	-	AND	-	-	-	127	-	-
1984-S42	2445713.33	1984 Jan 13 2000	Nike Orion	-	DLR A-NO-123	Ferdinand 68 M-T 3	-	-	-	AND	-	-	-	122	-	-
1984-S47	2445725.19	1984 Jan 25 1639	Nike Orion	-	DLR A-NO-124	Ferdinand 67 M-T 4	-	-	-	AND	-	-	-	118	-	-
1984-S50	2445731.27	1984 Jan 31 1831	Nike Orion	-	DLR A-NO-125	Ferdinand 70 M-T 5	-	-	-	AND	-	-	-	115	-	-
1984-S51	2445731.29	1984 Jan 31 1853	Nike Orion	-	MADAME 1	Ferdinand 73 M-M 1	-	-	-	AND	-	-	-	113	-	-
1984-S03	2445731.30	1984 Jan 31 1915:00	Nike Orion	-	SSC S39/1	SSC SOAP/WINE	-	-	-	ESR	MRL	-	-	149	-	-
1984-S56	2445740.61	1984 Feb 10 0240	Nike Orion	-	DLR A-NO-126	Ferdinand 69 M-T 6	-	-	-	AND	-	-	-	117	-	-
1984-S04	2445740.62	1984 Feb 10 0300:00	Nike Orion	-	SSC S39/2	SSC SOAP/WINE	-	-	-	ESR	MRL	-	-	148	-	-
1984-S57	2445740.63	1984 Feb 10 0305	Nike Orion	-	MADAME 2	Ferdinand 72 M-M 2	-	-	-	AND	-	-	-	115	-	-
1984-S59	2445746.56	1984 Feb 16 0120	Nike Orion	-	DLR A-NO-127	Ferdinand 64 M-T 7	-	-	-	AND	-	-	-	117	-	-
1984-S60	2445748.52	1984 Feb 18 0022	Nike Orion	-	DLR A-NO-128	Ferdinand 65 M-T 8	-	-	-	AND	-	-	-	113	-	-
1984-S61	2445749.19	1984 Feb 18 1629:30	Nike Orion	-	NASA 31.44UU	CWAS 7	-	-	-	FC	-	-	-	99	-	-
1984-S63	2445754.01	1984 Feb 23 1210	Nike Orion	-	NASA 31.38GE	GSFC E	-	-	-	WI	-	-	-	140?	-	-
1984-M02	2445758.17	1984 Feb 27 1600:01	Nike Orion	-	NASA 31.43UU	CWAS 8	-	-	-	FC	-	-	-	73	-	-
1984-S65	2445758.66	1984 Feb 28 0353:44	Black Brant 8C	-	ADD-VIIIC-10	ARIES B	-	-	-	FC	-	-	-	204	-	-
1984-S68	2445762.63	1984 Mar 3 0306:24	Black Brant 8C	-	ADD-VIIIC-9	ARIES A	-	-	-	FC	-	-	-	206	-	-
1984-S86	2445829.77	1984 May 9 0630	Aerobee 350	-	NASA 17.20UH	UXT 1	Soft X-ray ISM	-	-	WS	-	-	-	191	-	-
1984-S87	2445830.87	1984 May 10 0857	Nike Orion	-	NASA 31.41GE	VLF Trig Elec	-	-	-	WI	-	-	-	89	-	-
1984-S95	2445871.05	1984 Jun 19 1305	Black Brant 8C	-	NASA 27.89US	-	-	-	-	WS	-	-	-	316	-	-
1984-S96	2445875.76	1984 Jun 24 0615	Black Brant 8B	-	NASA 27.84UG	FUV Echelle	-	-	-	WS	-	-	-	248	-	-
1984-S108	2445935.88	1984 Aug 23 0911	Nike Orion	-	NASA 31.42GE	VLF Trig Elec	-	-	-	WI	-	-	-	140?	-	-
1984-S115	2445962.24	1984 Sep 18 1745	Nike Orion	-	NASA 31.46GU	-	-	-	-	WS	-	-	-	140?	-	-
1984-S117	2445962.66	1984 Sep 19 0346	Black Brant 8B	-	NASA 27.91UL	-	-	-	-	WS	-	-	-	308	-	-
1984-S122	2445979.79	1984 Oct 6 0700	Black Brant 8C	-	NASA 27.71UG	IMAPS 1	-	-	-	WS	-	-	-	273	-	-
1984-S133	2446045.31	1984 Dec 10 1920	Black Brant 8C	-	NASA 27.101GU	GSFC Solar UVI 1	-	-	-	WS	-	-	-	312	-	-
1985-M01	2446140.23	1985 Mar 15 1737:59	Nike Orion	-	NASA 31.50UU	CWAS 9	-	-	-	FC	-	-	-	75	-	-
1985-S61	2446145.45	1985 Mar 20 2244	Nike Tomahawk	-	NASA 18.219UE	COPE	-	-	-	SSG	-	-	-	270?	-	-
1985-S62	2446147.23	1985 Mar 22 1733	Nike Orion	-	NASA 31.49UU	CWAS 10	-	-	-	FC	-	-	-	91	-	-
1985-S63	2446151.75	1985 Mar 27 0607:11	Black Brant 8C	-	NASA 27.98UL	Auroral	-	-	-	FC	-	-	-	230	-	-
1985-S64	2446154.21	1985 Mar 29 1703:20	Nike Orion	-	NASA 31.48GE	-	-	-	-	PF	-	-	-	140?	-	-
1985-S67	2446157.21	1985 Apr 1 1657	Nike Orion	-	NASA 31.47GE	-	-	-	-	PF	-	-	-	140?	-	-
1985-S70	2446175.83	1985 Apr 20 0750	Black Brant 8C	-	NASA 27.82UG	IMAPS 2	-	-	-	WS	-	-	-	265	-	-
1985-S86	2446230.76	1985 Jun 14 0620	Black Brant 8C	-	GL A19.250	BERT-I/ERNIE	-	-	-	WS	-	-	-	244	-	-
1985-S96	2446241.24	1985 Jun 24 1746	Nike Orion	-	NASA 31.53UE	UIUC Ionos	-	-	-	WI	-	-	-	140?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-S97	2446243.24	1985 Jun 26 1746	Nike Orion	-	NASA 31.54UE	UIUC Ionos	-	-	-	WI	-	-	-	140?	-	-
1985-S112	2446315.12	1985 Sep 6 1500	Nike Orion	-	NASA 31.55UU	CWAS 11	-	-	-	WS	-	-	-	140?	-	-
1985-S116	2446318.50	1985 Sep 10 0003:07	Nike Orion	-	NASA 31.51GE	-	-	-	-	WI	-	-	-	140?	-	-
1985-S117	2446321.12	1985 Sep 12 1450	Nike Orion	-	NASA 31.56UU	CWAS 12	-	-	-	WS	-	-	-	140?	-	-
1985-S130	2446364.22	1985 Oct 25 1720	Black Brant 8C	-	NASA 27.90CS	XSST/TRC 4	-	-	-	WS	-	-	-	290	-	-
1986-S19	2446462.74	1986 Feb 1 0540	Black Brant 8C	-	NASA 27.103UH	UXT 2	-	-	-	WS	-	-	-	228	-	-
1986-S28	2446497.26	1986 Mar 7 1812:39	Black Brant 8C	-	NASA 27.104GU	GSFC Solar UVI 2	-	-	-	WS	-	-	-	319	-	-
1986-S39	2446539.15	1986 Apr 18 1535	Nike Orion	-	NASA 31.59UU	CWAS 13	-	-	-	WS	-	-	-	140?	-	-
1986-S40	2446542.80	1986 Apr 22 0711	Black Brant 8B	-	NASA 27.086UG	EUV Spectrometer	-	-	-	WS	-	-	-	304	-	-
1986-S42	2446546.06	1986 Apr 25 1330	Nike Orion	-	NASA 31.58UU	CWAS 14	-	-	-	WS	-	-	-	140?	-	-
1986-S69	2446638.44	1986 Jul 26 2237:20	Nike Orion	-	NASA 31.57GE	MAED	-	-	-	ESR	-	-	-	101	-	-
1986-S70	2446638.46	1986 Jul 26 2303	Nike Orion	-	NASA 31.60UE	MAED	-	-	-	ESR	-	-	-	99	-	-
1986-S71	2446638.49	1986 Jul 26 2344:40	Nike Orion	-	NASA 31.61UE	MAED	-	-	-	ESR	-	-	-	100?	-	-
1986-S102	2446719.22	1986 Oct 15 1710	Black Brant 8C	-	NASA 27.75GS	SERTS-2	-	-	-	WS	-	-	-	304	-	-
1986-S103	2446726.33	1986 Oct 22 2000	Black Brant 8C	-	NASA 27.99US	NIXT	-	-	-	WS	-	-	-	270	-	-
1987-S64	2446875.79	1987 Mar 21 0656	Black Brant 8C	-	GL A19.427	COPE II/POLAR ARCS	-	-	-	SSG	-	-	-	354	-	-
1987-S66	2446875.81	1987 Mar 21 0721	Nike Tomahawk	-	NASA 18.220UE	COPE II Release	-	-	-	SSG	-	-	-	270?	-	-
1987-S73	2446879.27	1987 Mar 24 1830	Nike Orion	-	NASA 31.62UE	UIUC Turb	-	-	-	WI	-	-	-	177	-	-
1987-S117	2447004.23	1987 Jul 27 1727:13	Black Brant 8C	-	NASA 27.107US	Colo UVS	-	-	-	WS	-	-	-	340?	-	-
1987-S126	2447015.13	1987 Aug 7 1502:09	Black Brant 8C	-	NASA 27.112UE	ERIC I	-	-	-	WI	-	-	-	268	-	-
1987-S127	2447022.19	1987 Aug 14 1629	Nike Orion	-	GL A12.629	COLDR	-	-	-	WI	-	-	-	86	-	-
1987-S147	2447067.92	1987 Sep 29 1000	Black Brant 8B	-	NASA 27.106UG	UCB EUV Tel	-	-	-	WS	-	-	-	340?	-	-
1987-S151	2447083.95	1987 Oct 15 1052:00	Nike Orion	-	DLR A-NO-148	MAC/E-T1 Bugatti IV	-	-	-	AND	-	-	-	127	-	-
1987-S153	2447083.95	1987 Oct 15 1052:40	Nike Orion	-	NASA 31.63UE	MAC/Epsilon NEFS	-	-	-	AND	-	-	-	181	-	-
1987-S158	2447090.40	1987 Oct 21 2133:00	Nike Orion	-	DLR A-NO-149 F-75	MAC/E-T2 IOMAS II	-	-	-	AND	-	-	-	126	-	-
1987-S159	2447090.40	1987 Oct 21 2133:20	Nike Orion	-	DLR A-NO-150 F-77	MAC/E-T3 Bugatti IV	-	-	-	AND	-	-	-	126	-	-
1987-S160	2447090.40	1987 Oct 21 2133:40	Nike Orion	-	NASA 31.66GE	MAC/Epsilon EXERT	-	-	-	AND	-	-	-	122	-	-
1987-S162	2447090.40	1987 Oct 21 2134:20	Nike Orion	-	NASA 31.64GE	MAC/Epsilon NEFS	-	-	-	AND	-	-	-	179	-	-
1987-S163	2447092.25	1987 Oct 23 1805:00	Black Brant 8C	-	NASA 27.92US	MSSTA 0	-	-	-	WS	-	-	-	340?	-	-
1987-S165	2447096.51	1987 Oct 28 0021:00	Nike Orion	-	NASA 31.67GE	MAC/Epsilon EXERT	-	-	-	AND	-	-	-	119	-	-
1987-S169	2447111.51	1987 Nov 12 0021:00	Nike Orion	-	DLR A-NO-151	MAC/E-T4 Ferdinand74	-	-	-	AND	-	-	-	126	-	-
1987-S171	2447111.51	1987 Nov 12 0021:20	Nike Orion	-	DLR A-NO-152	MAC/E-T5 F78/Total11	-	-	-	AND	-	-	-	124	-	-
1987-S173	2447111.52	1987 Nov 12 0022:00	Nike Orion	-	NASA 31.65UE	MAC/Epsilon NEFS	-	-	-	AND	-	-	-	181	-	-
1988-S90	2447283.67	1988 May 2 0400	Black Brant 8B	-	DLR K-NBB5-155	TEXUS 17	-	-	-	ESR	-	-	-	285	-	-
1988-S91	2447285.12	1988 May 3 1500	Nike Orion	-	NASA 31.69UU	CWAS 15	-	-	-	WS	-	-	-	140?	-	-
1988-S92	2447287.69	1988 May 6 0430	Black Brant 8B	-	DLR K-NBB5-156	TEXUS 18	-	-	-	ESR	-	-	-	265	-	-
1988-S94	2447292.10	1988 May 10 1430	Nike Orion	-	NASA 31.68UU	CWAS 16	-	-	-	WS	-	-	-	140?	-	-
1988-S105	2447369.74	1988 Jul 27 0547:43	Black Brant 8C	-	NASA 27.120UE	TR 2	-	-	-	WI	-	-	-	340?	-	-
1988-S118	2447419.94	1988 Sep 15 1040	Black Brant 8C	-	NASA 27.110UL	-	-	-	-	WS	-	-	-	340?	-	-
1988-S145	2447502.69	1988 Dec 7 0440	Black Brant 8C	-	NASA 27.121UH	UXT 3	-	-	-	WS	-	-	-	340?	-	-
1989-S45	2447604.17	1989 Mar 18 1600	Nike Orion	-	NASA 31.73UU	CWAS 17	-	-	-	FC	-	-	-	140?	-	-
1989-S47	2447608.17	1989 Mar 22 1601:31	Nike Orion	-	NASA 31.74UU	CWAS 18	-	-	-	FC	-	-	-	140?	-	-
1989-S72	2447725.31	1989 Jul 17 1922:26	Black Brant 8C	-	NASA 27.122UE	-	-	-	-	WS	-	-	-	340?	-	-
1989-S73	2447731.86	1989 Jul 24 0839:59	Black Brant 8C	-	SDIO Black Star 1	SP-4 DRO-0401	CHEER	-	-	PF	-	-	-	340?	-	-
1989-S82	2447751.88	1989 Aug 13 0900	Black Brant 8C	-	SDIO Black Star 2	SP-4 DRO-0402	CHEER	-	-	PF	-	-	-	340?	-	-
1989-S108	2447850.60	1989 Nov 20 0230	Black Brant 8B	-	NASA 27.123UG	FUVS 5	-	-	-	WS	-	-	-	340?	-	-
1990-S28	2447912.75	1990 Jan 21 0605	Black Brant 8C	-	-	COBRA	-	-	-	WS	-	-	-	250	-	-
1990-S29	2447913.93	1990 Jan 22 1020	Nike Orion	-	Ferdinand 81	DYANA DAT13 TURBO R.	-	-	-	AND	-	-	-	132	-	-
1990-S40	2447942.70	1990 Feb 20 0454:00	Nike Orion	-	DLR C-NO-175	DYANA DBN1 TURBO	-	-	-	CEL	-	-	-	129	-	-
1990-S41	2447942.90	1990 Feb 20 0941	Nike Orion	-	SSC RSM/ANODE	DYANA Nitric oxide	-	-	-	ESR	MRL	-	-	138	-	-
1990-S46	2447948.31	1990 Feb 25 1920:00	Nike Orion	-	Ferdinand 82	DYANA DAT50 TURBO	-	-	-	AND	-	-	-	128	-	-
1990-S47	2447948.47	1990 Feb 25 2321:20	Nike Orion	-	SSC RSG/ATOMIC 1	DYANA Atomic oxygen	-	-	-	ESR	MRL	-	-	133	-	-
1990-S50	2447950.54	1990 Feb 28 0051:59	Nike Orion	-	SSC RSG/ATOMIC 2	DYANA Atomic oxygen	-	-	-	ESR	MRL	-	-	139	-	-
1990-S53	2447956.61	1990 Mar 6 0241	Nike Orion	-	Ferdinand 83	DYANA DAT62 TURBO	-	-	-	AND	-	-	-	133	-	-
1990-S54	2447956.72	1990 Mar 6 0518:30	Nike Orion	-	DLR C-NO-176	DYANA DBN2 TURBO	-	-	-	CEL	-	-	-	128	-	-
1990-S58	2447959.45	1990 Mar 8 2253	Nike Orion	-	Ferdinand 84	DYANA DAT73 TURBO	-	-	-	AND	-	-	-	119	-	-
1990-S59	2447959.52	1990 Mar 9 0025	Nike Orion	-	Ferdinand 85	DYANA DAT76 TURBO	-	-	-	AND	-	-	-	130	-	-
1990-S61	2447962.36	1990 Mar 11 2042	Nike Orion	-	Ferdinand 86	DYANA DAT84 TURBO	-	-	-	AND	-	-	-	131	-	-
1990-S63	2447963.68	1990 Mar 13 0421	Nike Orion	-	DLR C-NO-177	DYANA DBN3 TURBO	-	-	-	CEL	-	-	-	128	-	-
1990-S67	2447972.92	1990 Mar 22 1003:23	Nike Orion	-	NASA 31.70UE	-	-	-	-	PF	-	-	-	140?	-	-
1990-S98	2448040.71	1990 May 29 0509:00	Nike Orion	-	-	SSC SPINRAC Test	-	-	-	ESR	-	-	-	107	-	-
1990-S104	2448088.79	1990 Jul 16 0700	Black Brant 8C	-	NASA 27.124UG	SISSR	-	-	-	WS	-	-	-	340?	-	-
1991-S99	2448372.25	1991 Apr 25 1800	Nike Orion	-	NASA 31.79UU	CWAS 19	-	-	-	PF	-	-	-	140?	-	-
1991-S102	2448377.30	1991 Apr 30 1919	Nike Orion	-	NASA 31.80UU	CWAS 20	-	-	-	PF	-	-	-	10?	-	-
1991-S133	2448469.57	1991 Aug 1 0139:00	Nike Orion	-	NASA 31.77UE NLC-91	N-B-P04 PEP B	-	-	-	ESR	-	-	-	93	-	-
1991-S184	2448469.57	1991 Aug 1 0140:00	Nike Orion	-	DLR K-NO-188 NLC-91	N-B-T05 TURBO B	-	-	-	ESR	-	-	-	130	-	-
1991-S134	2448478.47	1991 Aug 9 2315:00	Nike Orion	-	DLR K-NO-189 NLC-91	N-A-T13 TURBO A	-	-	-	ESR	-	-	-	117	-	-
1991-S182	2448478.47	1991 Aug 9 2315:15	Nike Orion	-	NLC-91 N-A-D14	SSC DECIMALS A	-	-	-	ESR	-	-	-	117	-	-
1991-S185	2448478.49	1991 Aug 9 2340:00	Nike Orion	-	NASA 31.78UE NLC-91	N-A-P17 PEP A	-	-	-	ESR	-	-	-	117	-	-
1991-S183	2448478.57	1991 Aug 10 0137:00	Nike Orion	-	NLC-91 N-A-D20	SSC DECIMALS B	-	-	-	ESR	-	-	-	118	-	-
1991-S145	2448506.41	1991 Sep 6 2150	Black Brant 8C	-	NASA 27.129UE	-	-	-	-	WS	-	-	-	148	-	-
1991-S151	2448517.49	1991 Sep 17 2343	Nike Orion	-	DLR A-NO-190	Turbo-Metal L-T1 F95	-	-	-	AND	-	-	-	140?	-	-
1991-S152	2448520.37	1991 Sep 20 2048	Nike Orion	-	DLR A-NO-191	Turbo-Metal L-T6 F96	-	-	-	AND	-	-	-	140?	-	-
1991-S153	2448520.44	1991 Sep 20 2240	Nike Orion	-	DLR A-NO-192	Turbo-Metal L-I9 F93	-	-	-	AND	-	-	-	140?	-	-
1991-S158	2448530.37	1991 Sep 30 2055:15	Nike Orion	-	DLR A-NO-193	Turbo-MetalL-T13 F97	-	-	-	AND	-	-	-	140?	-	-
1991-S160	2448533.44	1991 Oct 3 2227:30	Nike Orion	-	DLR A-NO-194	Turbo-MetalL-T17 F98?	-	-	-	AND	-	-	-	140?	-	-
1991-S161	2448533.51	1991 Oct 4 0008	Nike Orion	-	DLR A-NO-195	Turbo-MetalL-T21 F99?	-	-	-	AND	-	-	-	140?	-	-
1992-S23	2448685.08	1992 Mar 3 1357:30	Nike Tomahawk	-	NASA 18.221UE	Aria-1	-	-	-	PF	-	-	-	295	-	-
1992-S24	2448685.09	1992 Mar 3 1406:48	Black Brant 8C	-	NASA 27.130CE	Aria-1	-	-	-	PF	-	-	-	289	-	-
1992-S25	2448685.12	1992 Mar 3 1457	Nike Tomahawk	-	NASA 18.222UE	Aria-1	-	-	-	PF	-	-	-	270?	-	-
1992-S27	2448688.08	1992 Mar 6 1357:30	Nike Tomahawk	-	NASA 18.223UE	-	-	-	-	PF	-	-	-	270?	-	-
1992-S28	2448694.45	1992 Mar 12 2242	Nike Orion	-	NASA 31.83UU	CWAS 21	-	-	-	WS	-	-	-	140?	-	-
1992-S31	2448697.45	1992 Mar 15 2246	Nike Orion	-	NASA 31.82UU	CWAS 22	-	-	-	WS	-	-	-	140?	-	-
1992-S42	2448765.50	1992 May 23 0000	Nike Orion	-	NASA 31.84UU	CWAS 23	-	-	-	WS	-	-	-	140?	-	-
1992-S44	2448768.49	1992 May 25 2352	Nike Tomahawk	-	NASA 18.224UE	EL COQUI AA-3A	-	-	-	TORT	-	-	-	292	-	-
1992-S45	2448770.02	1992 May 27 1227	Nike Orion	-	NASA 31.85UU	CWAS 24	-	-	-	WS	-	-	-	140?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1992-S65	2448828.07	1992 Jul 24 1336	Black Brant 8C	-	NASA 27.133UE	-	-	-	-	PF	-	-	-	340?	-	-
1992-S73	2448852.89	1992 Aug 18 0920	Nike Improved Orion	-	DLR K-NO2-198	Testflug	-	-	-	ESR	-	-	-	92	-	-
1992-S75	2448856.24	1992 Aug 21 1746	Nike Orion	-	NASA 31.81UU	-	-	-	-	WS	-	-	-	140?	-	-
1992-S77	2448861.13	1992 Aug 26 1510	Nike Orion	-	NASA 31.93UU	CWAS 25	-	-	-	WS	-	-	-	140?	-	-
1992-S78	2448862.27	1992 Aug 27 1830	Black Brant 8C	-	NASA 12.045WT	-	-	-	-	WI	-	-	-	198	-	-
1992-S79	2448866.54	1992 Sep 1 0100	Nike Orion	-	NASA 31.92UU	CWAS 26	-	-	-	WS	-	-	-	140?	-	-
1992-S98	2448963.17	1992 Dec 6 1600	Nike Orion	-	NASA 31.94UU	CWAS 27	-	-	-	WS	-	-	-	140?	-	-
1992-S101	2448968.45	1992 Dec 11 2245	Nike Orion	-	NASA 31.95UU	CWAS 28	-	-	-	WS	-	-	-	140?	-	-
1993-S20	2449054.51	1993 Mar 8 0015	Nike Orion	-	NASA 31.97UU	CWAS 29	-	-	-	WS	-	-	-	140?	-	-
1993-S22	2449057.07	1993 Mar 10 1338	Nike Orion	-	NASA 31.96UU	CWAS 30	-	-	-	WS	-	-	-	140?	-	-
1993-S31	2449114.15	1993 May 6 1538	Black Brant 8C	-	NASA 27.136UE	-	-	-	-	PF	-	-	-	271	-	-
1993-S32	2449121.55	1993 May 14 0110	Nike Orion	-	NASA 31.99UU	CWAS 31	-	-	-	WS	-	-	-	140?	-	-
1993-S33	2449126.53	1993 May 19 0047	Nike Orion	-	NASA 31.98UU	CWAS 32	-	-	-	WS	-	-	-	140?	-	-
1993-S35	2449133.90	1993 May 26 0943	Nike Orion	-	DLR C-NO-202	Aerospatiale	-	-	-	CEL	-	-	-	140?	-	-
1993-S51	2449200.57	1993 Aug 1 0146	Nike Orion	?	-	SCT-06 (CONE)	-	-	-	AND	-	-	-	140?	-	-
1993-S52	2449201.52	1993 Aug 2 0023	Nike Orion	-	DLR K-NO-203 NLC-93	SSC DECIMALS A	-	-	-	ESR	-	-	-	98	-	-
1993-S53	2449201.54	1993 Aug 2 0102	Nike Orion	-	DLR K-NO-204 NLC-93	SSC DECIMALS B	-	-	-	ESR	-	-	-	105	-	-
1993-S58	2449241.17	1993 Sep 10 1600	Nike Orion	-	NASA 31.100UU	CWAS 33	-	-	-	WS	-	-	-	140?	-	-
1993-S59	2449244.25	1993 Sep 13 1800	Nike Orion	-	NASA 31.101UU	CWAS 34	-	-	-	WS	-	-	-	140?	-	-
1993-S72	2449320.90	1993 Nov 29 0930	Nike Improved Orion	-	DLR K-NO2-206	Mini-Texus 1	-	-	-	ESR	-	-	-	146	-	-
1994-S08	2449383.42	1994 Jan 30 2200	Black Brant 8C	-	NASA 27.137UE	-	-	-	-	PF	-	-	-	340?	-	-
1994-S12	2449396.05	1994 Feb 12 1308	Nike Tomahawk	-	NASA 18.233UE	Aria-II	-	-	-	PF	-	-	-	270?	-	-
1994-S13	2449396.05	1994 Feb 12 1312	Nike Tomahawk	-	NASA 18.232UE	Aria-II	-	-	-	PF	-	-	-	270?	-	-
1994-S14	2449396.05	1994 Feb 12 1316	Black Brant 8C	-	NASA 27.131CE	Aria-II	-	-	-	PF	-	-	-	242	-	-
1994-S21	2449418.88	1994 Mar 7 0911:47	Nike Orion	-	NASA 31.071UE	-	-	-	-	PF	-	-	-	140?	-	-
1994-S32	2449475.82	1994 May 3 0740	Nike Improved Orion	-	DLR K-NO2-208	Mini-Texus 2	-	-	-	ESR	-	-	-	139	-	-
1994-S41	2449525.60	1994 Jun 22 0220	Nike Orion	-	NASA 31.087UE	-	-	-	-	WI	-	-	-	140?	-	-
1994-S47	2449549.52	1994 Jul 16 0023	Nike Orion	-	NASA 31.086UE	-	-	-	-	WI	-	-	-	140?	-	-
1994-S51	2449562.44	1994 Jul 28 2239	Nike Orion	-	DLR A-NO-210	Echo 94 F-102 DUSTY	-	-	-	AND	-	-	-	140?	-	-
1994-S52	2449564.54	1994 Jul 31 0050:33	Nike Orion	-	DLR A-NO-211	Echo 94 F-103 DUSTY	-	-	-	AND	-	-	-	140?	-	-
1994-S54	2449576.54	1994 Aug 12 0053	Nike Orion	-	DLR A-NO-212	Echo 94 F-101 CONE	-	-	-	AND	-	-	-	140?	-	-
1994-S57	2449584.13	1994 Aug 19 1508:00	Nike Orion	-	NASA 31.102GE	GUARA MALTED/CADRE	-	-	-	ALCA	-	-	-	125	-	-
1994-S58	2449584.60	1994 Aug 20 0218:00	Nike Orion	-	NASA 31.103GE	GUARA MALTED/CADRE	-	-	-	ALCA	-	-	-	125	-	-
1994-S60	2449589.07	1994 Aug 24 1339:00	Nike Orion	-	NASA 31.105GE	GUARA MALTED/CADRE	-	-	-	ALCA	-	-	-	127	-	-
1994-S61	2449589.57	1994 Aug 25 0143:30	Nike Orion	-	NASA 31.104GE	GUARA MALTED/CADRE	-	-	-	ALCA	-	-	-	126	-	-
1994-S64	2449608.15	1994 Sep 12 1534	Nike Orion	-	NASA 31.107UU	CWAS 35	-	-	-	WS	-	-	-	140?	-	-
1994-S66	2449611.13	1994 Sep 15 1500:01	Nike Orion	-	NASA 31.108UU	CWAS 36	-	-	-	WS	-	-	-	140?	-	-
1994-S70	2449619.39	1994 Sep 23 2115	Nike Tomahawk	-	NASA 18.226UE	GUARA Sunset Elecdyn	-	-	-	ALCA	-	-	-	270?	-	-
1994-S71	2449619.39	1994 Sep 23 2117	Nike Tomahawk	-	NASA 18.225UE	GUARA Sunset Elecdyn	-	-	-	ALCA	-	-	-	270?	-	-
1994-S72	2449620.39	1994 Sep 24 2115	Nike Tomahawk	-	NASA 18.228UE	GUARA Sunset Elecdyn	-	-	-	ALCA	-	-	-	270?	-	-
1994-S73	2449620.39	1994 Sep 24 2117	Nike Tomahawk	-	NASA 18.227UE	GUARA Sunset Elecdyn	-	-	-	ALCA	-	-	-	270?	-	-
1995-S09	2449751.14	1995 Feb 2 1527:20	Black Brant 8C	-	NASA 27.138CE	Aria-II	-	-	-	PF	-	-	-	340?	-	-
1995-S10	2449751.16	1995 Feb 2 1551:41	Nike Tomahawk	-	NASA 18.230UE	-	-	-	-	PF	-	-	-	270?	-	-
1995-S21	2449792.35	1995 Mar 15 2021	Nike Orion	-	NASA 31.106NP	LIO/Destruct test	-	-	-	WI	-	-	-	6	-	-
1995-S23	2449798.12	1995 Mar 21 1500	Nike Orion	-	NASA 31.112UU	CWAS 37	-	-	-	WS	-	-	-	140?	-	-
1995-S26	2449804.15	1995 Mar 27 1540	Nike Orion	-	NASA 31.113UU	CWAS 38	-	-	-	WS	-	-	-	140?	-	-
1995-S36	2449836.75	1995 Apr 29 0555	Nike Improved Orion	-	DLR K-NO2-214	Mini-Texus 4	-	-	-	ESR	-	-	-	149	-	-
1995-S37	2449839.73	1995 May 2 0535	Nike Improved Orion	-	DLR K-NO2-215	Mini-Texus 3	-	-	-	ESR	-	-	-	125	-	-
1995-S51	2449924.90	1995 Jul 26 0933:31	Nike Orion	-	NASA 31.109UE	-	-	-	-	PF	-	-	-	140?	-	-
1995-S53	2449937.85	1995 Aug 8 0820:35	Nike Orion	-	NASA 31.110UE	-	-	-	-	PF	-	-	-	140?	-	-
1995-S79	2450046.08	1995 Nov 24 1400:00	Nike Tomahawk	-	NASA 18.231UE	-	-	-	-	PF	-	-	-	270?	-	-
1995-S80	2450048.84	1995 Nov 27 0803:00	Nike Tomahawk	-	NASA 18.229UE	-	-	-	-	PF	-	-	-	270?	-	-
1995-S81	2450048.84	1995 Nov 27 0807:24	Black Brant 8C	-	NASA 27.139CE	-	-	-	-	PF	-	-	-	340?	-	-
1995-S84	2450055.97	1995 Dec 4 1120:01	Black Brant 8C	-	NASA 27.132UH	XQC F1	-	-	-	WS	LC36 L-455	-	-	220	-	-
1996-S26	2450238.71	1996 Jun 4 0506:00	Black Brant 8C	-	NASA 27.140UH	XQC F2	-	-	-	WS	LC36 L-738	-	-	220	-	-
1996-S48	2450308.29	1996 Aug 12 1858	Nike Orion	-	NASA 31.114UP	HOMER	-	-	-	WS	-	-	-	96	-	-
1998-S05	2450840.02	1998 Jan 26 1226	Nike Improved Orion	?	DLR K-NO2-230	SSC MERMAID	-	-	-	ESR	-	-	-	132	-	-
1998-S14	2450855.90	1998 Feb 11 0942	Nike Improved Orion	-	DLR K-NO2-232	DLR Mini-Texus 5	-	-	-	ESR	-	-	-	140?	-	-
1998-S23	2450876.44	1998 Mar 3 2233	Nike Improved Orion	?	DLR K-NO2-233	SSC NLTE-1 Atomic 2A	-	-	-	ESR	-	-	-	134	-	-
1998-S24	2450879.39	1998 Mar 6 2126	Nike Improved Orion	?	DLR K-NO2-234	SSC NLTE-2 Atomic 2B	-	-	-	ESR	-	-	-	134	-	-
1998-S47	2450981.10	1998 Jun 16 1419	Nike Orion	-	NASA 31.111UP	Cincinatti/OhioSGC	-	-	-	WI	-	-	-	117?	-	-
1998-S66	2451150.96	1998 Dec 3 1104	Nike Improved Orion	-	DLR K-NO2-237	DLR Mini-Texus 6	-	-	-	ESR	-	-	-	140?	-	-
1999-S18	2451265.88	1999 Mar 28 0900:00	Black Brant 8C	-	NASA 27.141UH	XQC F3	-	-	-	WS	-	-	-	220	-	-
2000-S30	2451681.93	2000 May 17 1018:39	Nike Orion	-	NASA 31.122UP	SPIRIT 1	-	-	-	WI	-	-	-	140?	-	-
2000-S34	2451709.17	2000 Jun 13 1606:00	Nike Orion	-	NASA 31.121UP	-	-	-	-	WI	-	-	-	140?	-	-
2000-S37	2451716.95	2000 Jun 21 1043:00	Nike Orion	-	NASA 31.120UP	-	-	-	-	WI	-	-	-	140?	-	-
2000-S44	2451742.76	2000 Jul 17 0617:00	Black Brant 8C	-	NASA 27.143UE	-	-	-	-	WI	-	-	-	340?	-	-
2002-S31	2452404.77	2002 May 10 0632:00	Nike Orion	-	NASA 31.124UE	-	-	-	-	WI	-	-	-	93	-	-
2002-S33	2452410.77	2002 May 16 0626:00	Nike Orion	-	NASA 31.125UE	-	-	-	-	WI	-	-	-	93	-	-
2003-S29	2452820.78	2003 Jun 30 0650	Black Brant 8B	-	NASA 27.144UE	Intermediate Layers	-	-	-	WI	-	-	-	220	-	-
2003-A17	2452972.00	2003 Nov 28 1205:30	Nike Improved Orion	-	-	ICI-1	-	-	-	SVAL	-	-	-	12	-	-
2004-S39	2453252.37	2004 Sep 3 2055:10	Black Brant 8C	-	NASA 27.145UE	EQUIS II	-	-	-	KMR	-	-	-	340?	-	-
2004-S47	2453265.88	2004 Sep 17 0902:01	Black Brant 8C	-	NASA 27.146UE	EQUIS II	-	-	-	KMR	-	-	-	340?	-	-
2005-S03	2453391.17	2005 Jan 20 1600	Nike Improved Orion	-	NASA 12.062GT	NIACS	-	-	-	WS	-	-	-	90?	-	-
2006-S52	2453987.43	2006 Sep 8 2217:00	Nike Improved Orion	-	-	ECOMA 1	-	-	-	AND	-	-	-	130	-	-
2006-S55	2453996.38	2006 Sep 17 2106:46	Nike Improved Orion	-	-	ECOMA 2	-	-	-	AND	-	-	-	129	-	-
2007-S31	2454316.47	2007 Aug 3 2322:00	Nike Improved Orion	-	-	ECOMA 3	-	-	-	AND	-	-	-	127	-	-
2008-S31	2454648.06	2008 Jun 30 1322	Nike Improved Orion	-	-	ECOMA 4	-	-	-	AND	-	-	-	130?	-	-
2008-S33	2454655.39	2008 Jul 7 2124	Nike Improved Orion	-	-	ECOMA 5	-	-	-	AND	-	-	-	127	-	-
2008-S34	2454659.95	2008 Jul 12 1046	Nike Improved Orion	-	-	ECOMA 6	-	-	-	AND	-	-	-	127	-	-
2008-S53	2454762.02	2008 Oct 22 1230	Nike Improved Orion	-	-	EURO REXUS 4	MIRIAM 1	-	-	ESR	-	-	-	175	-	-
2009-S24	2454973.94	2009 May 22 1032	Nike Improved Orion	-	-	DLR MAPHEUS	-	-	-	ESR	-	-	-	140	-	-
2010-S60	2455496.93	2010 Oct 27 1015	Nike Improved Orion	-	-	DLR MAPHEUS-2	-	-	-	ESR	-	-	-	135	-	-
2010-S74	2455534.68	2010 Dec 4 0421	Nike Improved Orion	-	-	ECOMA 7	-	-	-	AND	-	-	-	135	-	-
2010-S75	2455543.64	2010 Dec 13 0324:30	Nike Improved Orion	-	-	ECOMA 8	-	-	-	AND	-	-	-	138	-	-
2010-S78	2455549.61	2010 Dec 19 0236	Nike Improved Orion	-	-	ECOMA 9	-	-	-	AND	-	-	-	135?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-S41	2455763.79	2011 Jul 21 0701:00	Nike Improved Orion	-	-	SSC PHOCUS	-	-	-	ESR	MRL?	-	-	107	-	-
2012-S70	2456256.97	2012 Nov 25 1120	Nike Improved Orion	-	-	DLR MAPHEUS-3	-	-	-	ESR	-	-	-	145	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1948-A06	2432720.45	1948 Jun 17 2244	Nike-480	-	47-N	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A08	2432732.19	1948 Jun 29 1630	Nike-480	-	47-17	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A10	2432734.19	1948 Jul 1 1639	Nike-480	-	47-18	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A13	2432741.19	1948 Jul 8 1630	Nike-480	-	47-11	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A14	2432746.19	1948 Jul 13 1631	Nike-480	-	47-14	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A19	2432774.19	1948 Aug 10 1635	Nike-482	-	482-P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A22	2432783.40	1948 Aug 19 2130	Nike-482	-	482-Q	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A24	2432784.20	1948 Aug 20 1645	Nike-482	-	482-R	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1948-A34	2432822.47	1948 Sep 27 2315	Nike-482	-	482-S	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A65	2433304.50	1950 Jan 23	Nike-484	-	484-35	0.000	ORD/WELEC	AS	-	-	Test	NikeAjaxHist	-	-
1950-A03	2433312.50	1950 Jan 31	Nike-484	-	484-38	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A04	2433314.50	1950 Feb 2	Nike-484	-	484-37	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A05	2433321.50	1950 Feb 9	Nike-484	-	484-39	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A06	2433326.50	1950 Feb 14	Nike-484	-	484-40	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A08	2433335.50	1950 Feb 23	Nike-484	-	484-41	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A09	2433342.50	1950 Mar 2	Nike-484	-	484-42	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A10	2433354.50	1950 Mar 14	Nike-484	-	484-43	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A12	2433361.50	1950 Mar 21	Nike-484	-	484-45	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A13	2433363.50	1950 Mar 23	Nike-484	-	484-44	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A15	2433368.50	1950 Mar 28	Nike-484	-	484-47	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A16	2433371.50	1950 Mar 31	Nike-484	-	484-46	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A17	2433378.50	1950 Apr 7	Nike-484	-	484-48	0.000	ORD/WELEC	AS	-	-	Test	NikeAjaxHist	-	-
1950-A18	2433382.50	1950 Apr 11	Nike-484	-	484-36	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A19	2433385.50	1950 Apr 14	Nike-484	-	484-49	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A20	2433391.50	1950 Apr 20	Nike-484	-	484-50	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A42	2433571.50	1950 Oct 17	Nike X201 Ajax	-	490-57	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A43	2433578.50	1950 Oct 24	Nike X201 Ajax	-	490-59	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A47	2433581.50	1950 Oct 27	Nike X201 Ajax	-	490-60	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A49	2433587.50	1950 Nov 02	Nike X201 Ajax	-	490-61	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A50	2433592.50	1950 Nov 07	Nike X201 Ajax	-	490-58	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A54	2433601.50	1950 Nov 16	Nike X201 Ajax	-	490-67	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A55	2433605.50	1950 Nov 20	Nike X201 Ajax	-	490-62	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A58	2433619.50	1950 Dec 04	Nike X201 Ajax	-	490-69	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A60	2433622.50	1950 Dec 07	Nike X201 Ajax	-	490-63	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1950-A61	2433626.50	1950 Dec 11	Nike X201 Ajax	-	490-64	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A11	2433748.50	1951 Apr 12	Nike X201 Ajax	-	490-65	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A19	2433776.50	1951 May 10	Nike X201 Ajax	-	490-66	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A27	2433804.50	1951 Jun 07	Nike X201 Ajax	-	490-70	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A30	2433812.50	1951 Jun 15	Nike X201 Ajax	-	490-69	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A35	2433825.50	1951 Jun 28	Nike X201 Ajax	-	490-71	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A41	2433841.50	1951 Jul 14	Nike X201 Ajax	-	490-72	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A71	2433935.50	1951 Oct 16	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A82	2433965.50	1951 Nov 15	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A84	2433966.50	1951 Nov 16	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A85	2433977.50	1951 Nov 27	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A89	2433984.50	1951 Dec 04	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A93	2433991.50	1951 Dec 11	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A94	2433991.50	1951 Dec 11	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1951-A99	2433998.50	1951 Dec 18	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A07	2434033.50	1952 Jan 22	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A18	2434040.50	1952 Jan 29	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A17	2434040.50	1952 Jan 29	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A22	2434047.50	1952 Feb 05	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A23	2434049.50	1952 Feb 07	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A24	2434049.50	1952 Feb 07	Nike X201 Ajax	-	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A31	2434061.50	1952 Feb 19	Nike X201 Ajax	?	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A34	2434067.50	1952 Feb 25	Nike Ajax	-	1249-100	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A38	2434071.50	1952 Feb 29	Nike X201 Ajax	?	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A39	2434075.50	1952 Mar 04	Nike X201 Ajax	?	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A41	2434076.50	1952 Mar 05	Nike Ajax	-	1249-101	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A45	2434085.50	1952 Mar 14	Nike Ajax	-	1249-98	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A52	2434099.50	1952 Mar 28	Nike X201 Ajax	?	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A53	2434099.50	1952 Mar 28	Nike X201 Ajax	?	490B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A60	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A62	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A61	2434104.50	1952 Apr 02	Nike X201 Ajax	?	491	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A69	2434126.50	1952 Apr 24	Nike X201 Ajax	?	491	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A70	2434126.50	1952 Apr 24	Nike X201 Ajax	?	491	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A73	2434134.50	1952 May 02	Nike Ajax	-	1249-102	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A80	2434148.50	1952 May 16	Nike Ajax	-	1249-103	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A90	2434160.50	1952 May 28	Nike Ajax	-	1249-104	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A94	2434175.50	1952 Jun 12	Nike Ajax	-	1249-105 XM5 test	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A99	2434181.50	1952 Jun 18	Nike Ajax	-	1249-106 XM5 test	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A102	2434188.50	1952 Jun 25	Nike Ajax	-	1249-107 XM5 test	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A114	2434210.50	1952 Jul 17	Nike Ajax	-	1249-111 XM5 test	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A284	2434215.50	1952 Jul 22	Nike X201 Ajax	-	1249-108	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A116	2434215.50	1952 Jul 22	Nike Ajax	-	1249B-1001	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A122	2434222.50	1952 Jul 29	Nike Ajax	-	1249B-1002	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A123	2434224.50	1952 Jul 31	Nike Ajax	-	1249-109	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A130	2434232.50	1952 Aug 08	Nike Ajax	-	1249-112	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A131	2434232.50	1952 Aug 08	Nike Ajax	-	1249B-1003	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A135	2434239.50	1952 Aug 15	Nike Ajax	-	1249-113	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A136	2434239.50	1952 Aug 15	Nike Ajax	-	1249B-1004	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A137	2434243.50	1952 Aug 19	Nike Ajax	-	1249-115	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A140	2434245.50	1952 Aug 21	Nike Ajax	-	1249-110	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A154	2434266.50	1952 Sep 11	Nike Ajax	-	1249-114	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A157	2434271.50	1952 Sep 16	Nike Ajax	-	1249-117	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A163	2434279.50	1952 Sep 24	Nike Ajax	-	1249-116	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A166	2434280.50	1952 Sep 25	Nike Ajax	-	1249A-120	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A168	2434285.50	1952 Sep 30	Nike Ajax	-	1249A-118	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A171	2434287.50	1952 Oct 02	Nike Ajax	-	1249A-122	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A176	2434288.50	1952 Oct 03	Nike Ajax	-	1249A-121	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A177	2434288.50	1952 Oct 03	Nike Ajax	-	1249A-125	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A178	2434292.50	1952 Oct 07	Nike Ajax	-	1249A-123	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A179	2434292.50	1952 Oct 07	Nike Ajax	-	1249A-126	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A181	2434294.50	1952 Oct 09	Nike Ajax	-	1249A-127	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A182	2434295.50	1952 Oct 10	Nike Ajax	-	1249A-128	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A183	2434299.50	1952 Oct 14	Nike Ajax	-	1249A-129	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A188	2434302.50	1952 Oct 17	Nike Ajax	-	1249A-130	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A189	2434306.50	1952 Oct 21	Nike Ajax	-	1249A-131	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A190	2434306.50	1952 Oct 21	Nike Ajax	-	1249A-132	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A191	2434309.50	1952 Oct 24	Nike Ajax	-	1249A-133	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A192	2434309.50	1952 Oct 24	Nike Ajax	-	1249A-134	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A193	2434313.50	1952 Oct 28	Nike Ajax	-	1249A-135	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A194	2434313.50	1952 Oct 28	Nike Ajax	-	1249A-136	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A199	2434315.50	1952 Oct 30	Nike Ajax	-	1249A-138	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A200	2434315.50	1952 Oct 30	Nike Ajax	-	1249A-137	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A205	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-139	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A206	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-140	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A207	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-141	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A208	2434322.50	1952 Nov 06	Nike Ajax	-	1249A-142	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A213	2434323.50	1952 Nov 07	Nike Ajax	-	1249B-1010	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A219	2434329.50	1952 Nov 13	Nike Ajax	-	1249A-143	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A220	2434329.50	1952 Nov 13	Nike Ajax	-	1249A-144	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A228	2434334.50	1952 Nov 18	Nike Ajax	-	1249A-119	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A229	2434334.50	1952 Nov 18	Nike Ajax	-	1249A-147	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A237	2434336.50	1952 Nov 20	Nike Ajax	-	1249A-145	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A236	2434336.50	1952 Nov 20	Nike Ajax	-	1249A-146	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A241	2434341.50	1952 Nov 25	Nike Ajax	-	1249B-1014	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A240	2434341.50	1952 Nov 25	Nike Ajax	-	1249B-1020	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A247	2434342.50	1952 Nov 26	Nike Ajax	-	1249A-148	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A246	2434342.50	1952 Nov 26	Nike Ajax	-	1249A-149	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A253	2434349.50	1952 Dec 03	Nike Ajax	-	1249A-150	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A252	2434349.50	1952 Dec 03	Nike Ajax	-	1249B-1037	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A259	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-124	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A256	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-153	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A257	2434350.50	1952 Dec 04	Nike Ajax	-	1249A-154	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A258	2434350.50	1952 Dec 04	Nike Ajax	-	1249B-1043	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A263	2434355.50	1952 Dec 09	Nike Ajax	-	1249A-156	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A265	2434357.50	1952 Dec 11	Nike Ajax	-	1249A-151	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A264	2434357.50	1952 Dec 11	Nike Ajax	-	1249A-155	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A273	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-158	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A274	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-152	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A272	2434363.50	1952 Dec 17	Nike Ajax	-	1249A-157	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A281	2434365.50	1952 Dec 19	Nike Ajax	-	1249A-160	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1952-A280	2434365.50	1952 Dec 19	Nike Ajax	-	1249A-159	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A06	2434385.50	1953 Jan 08	Nike Ajax	-	1249B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A08	2434385.50	1953 Jan 08	Nike Ajax	-	1249A-161	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A07	2434385.50	1953 Jan 08	Nike Ajax	-	1249A-163	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A14	2434390.50	1953 Jan 13	Nike Ajax	-	1249A-167	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A15	2434390.50	1953 Jan 13	Nike Ajax	-	1249A-164	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A18	2434392.50	1953 Jan 15	Nike Ajax	-	1249A-176	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A21	2434393.50	1953 Jan 16	Nike Ajax	-	1249B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A22	2434393.50	1953 Jan 16	Nike Ajax	-	1249A-173	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A27	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-174	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A26	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-171	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A25	2434399.50	1953 Jan 22	Nike Ajax	-	1249A-170	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A30	2434400.50	1953 Jan 23	Nike Ajax	-	1249B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A29	2434400.50	1953 Jan 23	Nike Ajax	-	1249B	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A31	2434400.50	1953 Jan 23	Nike Ajax	-	1249A-177	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A32	2434404.50	1953 Jan 27	Nike Ajax	-	301P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A33	2434404.50	1953 Jan 27	Nike Ajax	-	1249B-1073	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A34	2434404.50	1953 Jan 27	Nike Ajax	-	1249B-1075	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A35	2434404.50	1953 Jan 27	Nike Ajax	-	302P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A39	2434406.50	1953 Jan 29	Nike Ajax	-	1249A-179	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A04	2434411.50	1953 Feb 03	Nike Ajax	-	303P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A42	2434411.50	1953 Feb 03	Nike Ajax	-	304P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A46	2434413.50	1953 Feb 05	Nike Ajax	-	305P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A45	2434413.50	1953 Feb 05	Nike Ajax	-	306P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A48	2434417.50	1953 Feb 09	Nike Ajax	-	1249A-191	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A56	2434420.50	1953 Feb 12	Nike Ajax	-	307P	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A57	2434420.50	1953 Feb 12	Nike Ajax	-	1249A-182	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A61	2434421.50	1953 Feb 13	Nike Ajax	-	1249A-183	0.000	ORD/WELEC	AS	-	-	Test	wsmr-history.org	-	-
1953-A62	2434421.50	1953 Feb 13	Nike Ajax	-	1249B	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A63	2434421.50	1953 Feb 13	Nike Ajax	-	1249A-185	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A65	2434425.50	1953 Feb 17	Nike Ajax	-	1249A-166	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A66	2434425.50	1953 Feb 17	Nike Ajax	-	1249B-1100	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A67	2434425.50	1953 Feb 17	Nike Ajax	-	1249B-1090	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A68	2434425.50	1953 Feb 17	Nike Ajax	-	1249A-180	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A69	2434427.50	1953 Feb 19	Nike Ajax	-	1249B	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A72	2434428.50	1953 Feb 20	Nike Ajax	-	308P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A73	2434428.50	1953 Feb 20	Nike Ajax	-	309P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A77	2434433.50	1953 Feb 25	Nike Ajax	-	1249A-195	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A78	2434433.50	1953 Feb 25	Nike Ajax	-	1042E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A79	2434433.50	1953 Feb 25	Nike Ajax	-	1038E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A81	2434434.50	1953 Feb 26	Nike Ajax	-	310P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A82	2434434.50	1953 Feb 26	Nike Ajax	-	311P	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A83	2434434.50	1953 Feb 26	Nike Ajax	-	1021E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A85	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-165	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A86	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-162	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A87	2434435.50	1953 Feb 27	Nike Ajax	-	1249A-186	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A90	2434439.50	1953 Mar 03	Nike Ajax	-	1013E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A91	2434439.50	1953 Mar 03	Nike Ajax	-	1249A-169	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A92	2434439.50	1953 Mar 03	Nike Ajax	-	1249A-168	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A96	2434441.50	1953 Mar 05	Nike Ajax	-	312P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A97	2434441.50	1953 Mar 05	Nike Ajax	-	313P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A498	2434441.50	1953 Mar 05	Nike Ajax	-	1249A-192	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A98	2434441.50	1953 Mar 05	Nike Ajax	-	1249A-175	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A99	2434441.50	1953 Mar 05	Nike Ajax	-	1050E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A100	2434441.50	1953 Mar 05	Nike Ajax	-	1052E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A499	2434442.50	1953 Mar 06	Nike Ajax	-	1249A-188	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A102	2434446.50	1953 Mar 10	Nike Ajax	-	1249A-189	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A108	2434448.50	1953 Mar 12	Nike Ajax	-	314P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A109	2434448.50	1953 Mar 12	Nike Ajax	-	315P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A110	2434448.50	1953 Mar 12	Nike Ajax	-	316P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A111	2434448.50	1953 Mar 12	Nike Ajax	-	1076E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A112	2434448.50	1953 Mar 12	Nike Ajax	-	1249A-200	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A113	2434448.50	1953 Mar 12	Nike Ajax	-	1249A-172	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A123	2434453.50	1953 Mar 17	Nike Ajax	-	1249A-201	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A120	2434453.50	1953 Mar 17	Nike Ajax	-	1249A-178	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A121	2434453.50	1953 Mar 17	Nike Ajax	-	1034E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A122	2434453.50	1953 Mar 17	Nike Ajax	-	1080E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A128	2434455.50	1953 Mar 19	Nike Ajax	-	1078E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A127	2434455.50	1953 Mar 19	Nike Ajax	-	317P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A132	2434455.50	1953 Mar 19	Nike Ajax	-	318P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A133	2434455.50	1953 Mar 19	Nike Ajax	-	319P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A126	2434455.50	1953 Mar 19	Nike Ajax	-	320P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A131	2434455.50	1953 Mar 19	Nike Ajax	-	321P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A130	2434455.50	1953 Mar 19	Nike Ajax	-	322	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A129	2434455.50	1953 Mar 19	Nike Ajax	-	323P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A142	2434460.50	1953 Mar 24	Nike Ajax	-	1088E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A144	2434462.50	1953 Mar 26	Nike Ajax	-	1046E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A145	2434462.50	1953 Mar 26	Nike Ajax	-	1074E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A146	2434462.50	1953 Mar 26	Nike Ajax	-	323P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A147	2434462.50	1953 Mar 26	Nike Ajax	-	324P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A143	2434462.50	1953 Mar 26	Nike Ajax	-	325P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A148	2434462.50	1953 Mar 26	Nike Ajax	-	1249A-194	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A154	2434467.50	1953 Mar 31	Nike Ajax	-	1249B-1104	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A152	2434467.50	1953 Mar 31	Nike Ajax	-	1249B-1102	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A153	2434467.50	1953 Mar 31	Nike Ajax	-	1099E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A158	2434469.50	1953 Apr 02	Nike Ajax	-	326P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A157	2434469.50	1953 Apr 02	Nike Ajax	-	327P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A160	2434469.50	1953 Apr 02	Nike Ajax	-	1249B-1181	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A159	2434469.50	1953 Apr 02	Nike Ajax	-	1249B-1183	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A500	2434469.50	1953 Apr 2	Nike Ajax	-	1249A-197	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A138	2434470.50	1953 Apr 3	Nike Ajax	-	1249A-196	0.000	ORD	AS	-	-	Test	Nike-AjaxHist	wsmr-history.org	-
1953-A164	2434476.50	1953 Apr 09	Nike Ajax	-	328P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A163	2434476.50	1953 Apr 09	Nike Ajax	-	329P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A169	2434481.50	1953 Apr 14	Nike Ajax	-	1249A-198	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A166	2434481.50	1953 Apr 14	Nike Ajax	-	1249A-199	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A167	2434481.50	1953 Apr 14	Nike Ajax	-	1086E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A168	2434481.50	1953 Apr 14	Nike Ajax	-	1082E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A170	2434483.50	1953 Apr 16	Nike Ajax	-	1249A-203	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A171	2434483.50	1953 Apr 16	Nike Ajax	-	1249A-202	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A172	2434483.50	1953 Apr 16	Nike Ajax	-	1084E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A176	2434483.50	1953 Apr 16	Nike Ajax	-	330P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A175	2434483.50	1953 Apr 16	Nike Ajax	-	331P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A174	2434483.50	1953 Apr 16	Nike Ajax	-	332P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A173	2434483.50	1953 Apr 16	Nike Ajax	-	333P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A181	2434487.50	1953 Apr 20	Nike Ajax	-	334P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A179	2434487.50	1953 Apr 20	Nike Ajax	-	335P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A178	2434487.50	1953 Apr 20	Nike Ajax	-	336P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A180	2434487.50	1953 Apr 20	Nike Ajax	-	337P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A195	2434497.50	1953 Apr 30	Nike Ajax	-	338P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A194	2434497.50	1953 Apr 30	Nike Ajax	-	339P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A193	2434497.50	1953 Apr 30	Nike Ajax	-	340P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A197	2434497.50	1953 Apr 30	Nike Ajax	-	1249A-204	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A196	2434497.50	1953 Apr 30	Nike Ajax	-	1249A-205	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A202	2434502.50	1953 May 05	Nike Ajax	-	1092E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A203	2434502.50	1953 May 05	Nike Ajax	-	1249B-1178	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A209	2434504.50	1953 May 07	Nike Ajax	-	341P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A205	2434504.50	1953 May 07	Nike Ajax	-	342P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A206	2434504.50	1953 May 07	Nike Ajax	-	343P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A207	2434504.50	1953 May 07	Nike Ajax	-	344P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A208	2434504.50	1953 May 07	Nike Ajax	-	1103E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A213	2434509.50	1953 May 12	Nike Ajax	-	345P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A214	2434509.50	1953 May 12	Nike Ajax	-	346P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A215	2434509.50	1953 May 12	Nike Ajax	-	347P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A216	2434509.50	1953 May 12	Nike Ajax	-	348P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A212	2434509.50	1953 May 12	Nike Ajax	-	349P	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A219	2434511.50	1953 May 14	Nike Ajax	-	1249B-1179	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A220	2434516.50	1953 May 19	Nike Ajax	-	1249A-181	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A221	2434516.50	1953 May 19	Nike Ajax	-	1249B-1180	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A228	2434525.50	1953 May 28	Nike Ajax	-	1249B-1151	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A230	2434530.50	1953 Jun 02	Nike Ajax	-	1249B-1153	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A231	2434530.50	1953 Jun 02	Nike Ajax	-	1249B-1106	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A232	2434532.50	1953 Jun 04	Nike Ajax	-	1249B-1192	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A233	2434532.50	1953 Jun 04	Nike Ajax	-	1249B-1098	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A234	2434533.50	1953 Jun 05	Nike Ajax	-	1188E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A237	2434537.50	1953 Jun 09	Nike Ajax	-	1187E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A240	2434539.50	1953 Jun 11	Nike Ajax	-	1249B-1124	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A241	2434539.50	1953 Jun 11	Nike Ajax	-	1249A-184	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A245	2434544.50	1953 Jun 16	Nike Ajax	-	1249B-1134	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A246	2434544.50	1953 Jun 16	Nike Ajax	-	1249B-1135	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A256	2434551.50	1953 Jun 23	Nike Ajax	-	1249B-1122	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A257	2434551.50	1953 Jun 23	Nike Ajax	-	1249B-1213	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A258	2434551.50	1953 Jun 23	Nike Ajax	-	1148E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A262	2434553.50	1953 Jun 25	Nike Ajax	-	1249B-1123	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A276	2434558.50	1953 Jun 30	Nike Ajax	-	1249B-1205	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A277	2434558.50	1953 Jun 30	Nike Ajax	-	1249B-1207	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A278	2434559.50	1953 Jul 01	Nike Ajax	-	1160E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A281	2434564.50	1953 Jul 06	Nike Ajax	-	1137A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A285	2434567.50	1953 Jul 09	Nike Ajax	-	1204A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A286	2434567.50	1953 Jul 09	Nike Ajax	-	1161A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A287	2434567.50	1953 Jul 09	Nike Ajax	-	1249B-1203	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A288	2434567.50	1953 Jul 09	Nike Ajax	-	1249B-1219	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A289	2434568.50	1953 Jul 10	Nike Ajax	-	1157A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A291	2434572.50	1953 Jul 14	Nike Ajax	-	1249B-1211	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A292	2434572.50	1953 Jul 14	Nike Ajax	-	1152E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A295	2434575.50	1953 Jul 17	Nike Ajax	-	1249B-1231	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A302	2434581.50	1953 Jul 23	Nike Ajax	-	1298R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A303	2434581.50	1953 Jul 23	Nike Ajax	-	1249B-1277	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A304	2434581.50	1953 Jul 23	Nike Ajax	-	1249B-1209	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A308	2434586.50	1953 Jul 28	Nike Ajax	-	1249B-1221	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A313	2434593.50	1953 Aug 04	Nike Ajax	-	1249B-1201	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A319	2434600.50	1953 Aug 11	Nike Ajax	-	1249B-1215	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A320	2434600.50	1953 Aug 11	Nike Ajax	-	1208E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A325	2434602.50	1953 Aug 13	Nike Ajax	-	1229R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A327	2434602.50	1953 Aug 13	Nike Ajax	-	1237R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A326	2434602.50	1953 Aug 13	Nike Ajax	-	1235R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A333	2434609.50	1953 Aug 20	Nike Ajax	-	1245R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A342	2434623.50	1953 Sep 03	Nike Ajax	-	1206A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A344	2434623.50	1953 Sep 03	Nike Ajax	-	1233R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A345	2434623.50	1953 Sep 03	Nike Ajax	-	1223R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A343	2434623.50	1953 Sep 03	Nike Ajax	-	1225R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A349	2434629.50	1953 Sep 09	Nike Ajax	-	1224A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A350	2434629.50	1953 Sep 09	Nike Ajax	-	1214A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A353	2434630.50	1953 Sep 10	Nike Ajax	-	1253R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A354	2434631.50	1953 Sep 11	Nike Ajax	-	1133A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A355	2434631.50	1953 Sep 11	Nike Ajax	-	1189A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A362	2434637.50	1953 Sep 17	Nike Ajax	-	1255R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A361	2434637.50	1953 Sep 17	Nike Ajax	-	1249R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A363	2434642.50	1953 Sep 22	Nike Ajax	-	1144E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A369	2434644.50	1953 Sep 24	Nike Ajax	-	1265R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A371	2434645.50	1953 Sep 25	Nike Ajax	-	1128E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A372	2434645.50	1953 Sep 25	Nike Ajax	-	1258E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A373	2434645.50	1953 Sep 25	Nike Ajax	-	1268E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A374	2434645.50	1953 Sep 25	Nike Ajax	-	1263E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A379	2434651.50	1953 Oct 01	Nike Ajax	-	1257R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A380	2434651.50	1953 Oct 01	Nike Ajax	-	1267R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A381	2434651.50	1953 Oct 01	Nike Ajax	-	1269R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A387	2434656.50	1953 Oct 06	Nike Ajax	-	1234A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A388	2434656.50	1953 Oct 06	Nike Ajax	-	1236A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A389	2434656.50	1953 Oct 06	Nike Ajax	-	1149A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A393	2434658.50	1953 Oct 08	Nike Ajax	-	1275R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A396	2434663.50	1953 Oct 13	Nike Ajax	-	1194A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A397	2434663.50	1953 Oct 13	Nike Ajax	-	1218A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A398	2434664.50	1953 Oct 14	Nike Ajax	-	1138E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A399	2434664.50	1953 Oct 14	Nike Ajax	-	1154E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A405	2434665.50	1953 Oct 15	Nike Ajax	-	1271R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A403	2434665.50	1953 Oct 15	Nike Ajax	-	1281R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A404	2434665.50	1953 Oct 15	Nike Ajax	-	1279R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A402	2434665.50	1953 Oct 15	Nike Ajax	-	1263R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A407	2434670.50	1953 Oct 20	Nike Ajax	-	1283R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A408	2434670.50	1953 Oct 20	Nike Ajax	-	1277R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A413	2434672.50	1953 Oct 22	Nike Ajax	-	1289R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A414	2434672.50	1953 Oct 22	Nike Ajax	-	1251R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A417	2434673.50	1953 Oct 23	Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1953-A420	2434677.50	1953 Oct 27	Nike Ajax	-	1287R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A421	2434678.50	1953 Oct 28	Nike Ajax	-	1222A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A428	2434684.50	1953 Nov 03	Nike Ajax	-	1241R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A430	2434684.50	1953 Nov 03	Nike Ajax	-	1273R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A427	2434684.50	1953 Nov 03	Nike Ajax	-	1259R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A429	2434684.50	1953 Nov 03	Nike Ajax	-	1293R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A438	2434693.50	1953 Nov 12	Nike Ajax	-	1136A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A440	2434694.50	1953 Nov 13	Nike Ajax	-	1210A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A441	2434694.50	1953 Nov 13	Nike Ajax	-	1225A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A450	2434700.50	1953 Nov 19	Nike Ajax	-	1282E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A451	2434700.50	1953 Nov 19	Nike Ajax	-	1278E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A452	2434700.50	1953 Nov 19	Nike Ajax	-	1262E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A453	2434700.50	1953 Nov 19	Nike Ajax	-	1276E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A454	2434700.50	1953 Nov 19	Nike Deacon	-	-	0.000	PARD	AS	-	-	Test	WDCRF	RP-1028	-
1953-A460	2434706.50	1953 Nov 25	Nike Ajax	-	1212A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A461	2434706.50	1953 Nov 25	Nike Ajax	-	?T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A462	2434706.50	1953 Nov 25	Nike Ajax	-	1238A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A463	2434706.50	1953 Nov 25	Nike Ajax	-	1286A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A464	2434706.50	1953 Nov 25	Nike Ajax	-	?T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A470	2434719.50	1953 Dec 08	Nike Ajax	-	1256E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A471	2434719.50	1953 Dec 08	Nike Ajax	-	1266E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A473	2434720.50	1953 Dec 09	Nike Ajax	-	?T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A482	2434726.50	1953 Dec 15	Nike Ajax	-	1198A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A486	2434727.50	1953 Dec 16	Nike Ajax	-	1216A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1953-A490	2434728.50	1953 Dec 17	Nike Ajax	-	1230A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A04	2434748.50	1954 Jan 06	Nike Ajax	-	1288T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A07	2434749.50	1954 Jan 07	Nike Ajax	-	1197A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A11	2434753.50	1954 Jan 11	Nike Ajax	-	1298T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A12	2434753.50	1954 Jan 11	Nike Ajax	-	1200A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A15	2434754.50	1954 Jan 12	Nike Ajax	-	1202E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A16	2434755.50	1954 Jan 13	Nike Ajax	-	1186A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A21	2434757.50	1954 Jan 15	Nike Ajax	-	1596E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A22	2434757.50	1954 Jan 15	Nike Ajax	-	1435E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A23	2434757.50	1954 Jan 15	Nike Ajax	-	1587E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A24	2434760.50	1954 Jan 18	Nike Ajax	-	1723E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A25	2434760.50	1954 Jan 18	Nike Ajax	-	1617E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A32	2434767.50	1954 Jan 25	Nike Ajax	-	1280T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A37	2434771.50	1954 Jan 29	Nike Ajax	-	1633A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A42	2434776.50	1954 Feb 3	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A44	2434779.50	1954 Feb 06	Nike Ajax	-	1264T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A45	2434781.50	1954 Feb 08	Nike Ajax	-	1307R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A51	2434783.50	1954 Feb 10	Nike Ajax	-	1309R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A62	2434790.50	1954 Feb 17	Nike Ajax	-	1585A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A63	2434790.50	1954 Feb 17	Nike Ajax	-	1232A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A81	2434798.50	1954 Feb 25	Nike Ajax	-	1318A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A84	2434799.50	1954 Feb 26	Nike Ajax	-	1260T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A86	2434801.50	1954 Mar	Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1954-A92	2434804.50	1954 Mar 03	Nike Ajax	-	1311R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A101	2434806.50	1954 Mar 05	Nike Ajax	-	1313R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A102	2434806.50	1954 Mar 05	Nike Ajax	-	1274A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A103	2434806.50	1954 Mar 05	Nike Ajax	-	1649E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A104	2434806.50	1954 Mar 05	Nike Ajax	-	1535E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A106	2434806.50	1954 Mar 05	Nike Ajax	-	1366T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A109	2434813.50	1954 Mar 12	Nike Ajax	-	1294T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A110	2434815.50	1954 Mar 14	Nike Ajax	-	1131T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A111	2434818.50	1954 Mar 17	Nike Ajax	-	1285R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A114	2434819.50	1954 Mar 18	Nike Ajax	-	1610E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A115	2434819.50	1954 Mar 18	Nike Ajax	-	1785	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A118	2434820.50	1954 Mar 19	Nike Ajax	-	1374T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A119	2434821.50	1954 Mar 20	Nike Ajax	-	1300T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A120	2434823.50	1954 Mar 22	Nike Ajax	-	2245A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A130	2434827.50	1954 Mar 26	Nike Ajax	-	2358E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A131	2434827.50	1954 Mar 26	Nike Ajax	-	1372T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A132	2434827.50	1954 Mar 26	Nike Ajax	-	1336E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A136	2434831.50	1954 Mar 30	Nike Ajax	-	1295R AGC motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A137	2434832.50	1954 Mar 31	Nike Ajax	-	1623E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A138	2434832.50	1954 Mar 31	Nike Ajax	-	1708E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A141	2434834.50	1954 Apr 02	Nike Ajax	-	1139T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A142	2434834.50	1954 Apr 02	Nike Ajax	-	1489E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A143	2434834.50	1954 Apr 02	Nike Ajax	-	1734E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A146	2434838.50	1954 Apr 06	Nike Ajax	-	1316A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A147	2434839.50	1954 Apr 07	Nike Ajax	-	1559E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A148	2434839.50	1954 Apr 07	Nike Ajax	-	1477E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A149	2434839.50	1954 Apr 07	Nike Ajax	-	1319R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A150	2434839.50	1954 Apr 07	Nike Ajax	-	1430E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A153	2434840.50	1954 Apr 08	Nike Ajax	-	1369T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A161	2434842.50	1954 Apr 10	Nike Ajax	-	1270T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A162	2434842.50	1954 Apr 10	Nike Ajax	-	1378T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A164	2434843.50	1954 Apr 11	Nike Ajax	-	1380T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A165	2434844.50	1954 Apr 12	Nike Ajax	-	1381T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A168	2434845.50	1954 Apr 13	Nike Ajax	-	2294A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A170	2434846.50	1954 Apr 14	Nike Ajax	-	1299R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A171	2434846.50	1954 Apr 14	Nike Ajax	-	1315R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A172	2434846.50	1954 Apr 14	Nike Ajax	-	1317R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A175	2434847.50	1954 Apr 15	Nike Ajax	-	1629E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A176	2434847.50	1954 Apr 15	Nike Ajax	-	1663E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A177	2434847.50	1954 Apr 15	Nike Ajax	-	1398E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A178	2434847.50	1954 Apr 15	Nike Ajax	-	1383T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A179	2434848.50	1954 Apr 16	Nike Ajax	-	1367T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A180	2434849.50	1954 Apr 17	Nike Ajax	-	1319R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A181	2434852.50	1954 Apr 20	Nike Ajax	-	2263A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A182	2434852.50	1954 Apr 20	Nike Ajax	-	1375T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A187	2434854.50	1954 Apr 22	Nike Ajax	-	1395T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A188	2434854.50	1954 Apr 22	Nike Ajax	-	1638E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A193	2434855.50	1954 Apr 23	Nike Ajax	-	1401T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A194	2434856.50	1954 Apr 24	Nike Ajax	-	1384T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A195	2434858.50	1954 Apr 26	Nike Ajax	-	2220A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A201	2434859.50	1954 Apr 27	Nike Ajax	-	2256T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A202	2434859.50	1954 Apr 27	Nike Ajax	-	2320A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A203	2434859.50	1954 Apr 27	Nike Ajax	-	1404E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A204	2434859.50	1954 Apr 27	Nike Ajax	-	1452E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A205	2434859.50	1954 Apr 27	Nike Ajax	-	1552E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A206	2434859.50	1954 Apr 27	Nike Ajax	-	1724E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A207	2434860.50	1954 Apr 28	Nike Ajax	-	1358A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A209	2434860.50	1954 Apr 28	Nike Ajax	-	1321R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A210	2434860.50	1954 Apr 28	Nike Ajax	-	1605E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A211	2434860.50	1954 Apr 28	Nike Ajax	-	1323R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A208	2434860.50	1954 Apr 28	Nike Ajax	-	2163R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A212	2434860.50	1954 Apr 28	Nike Ajax	-	1468T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A213	2434860.50	1954 Apr 28	Nike Ajax	-	1676E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A217	2434861.50	1954 Apr 29	Nike Nike Deacon	-	-	0.000	PARD	AS	-	-	Test	RP-1028	TN-D-745	-
1954-A218	2434861.50	1954 Apr 29	Nike Ajax	-	2288T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A219	2434861.50	1954 Apr 29	Nike Ajax	-	2264T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A226	2434862.50	1954 Apr 30	Nike Ajax	-	1397T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A228	2434865.50	1954 May 03	Nike Ajax	-	1774E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A229	2434865.50	1954 May 03	Nike Ajax	-	1583E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A231	2434866.50	1954 May 04	Nike Ajax	-	1400T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A236	2434867.50	1954 May 05	Nike Ajax	-	1297R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A237	2434867.50	1954 May 05	Nike Ajax	-	187R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A235	2434867.50	1954 May 05	Nike Ajax	-	1325R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A234	2434867.50	1954 May 05	Nike Ajax	-	2199R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A238	2434867.50	1954 May 05	Nike Ajax	-	1656E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A239	2434867.50	1954 May 05	Nike Ajax	-	1503E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A240	2434867.50	1954 May 05	Nike Ajax	-	1338T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A241	2434867.50	1954 May 05	Nike Ajax	-	1412T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A243	2434869.50	1954 May 07	Nike Ajax	-	1386T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A244	2434869.50	1954 May 07	Nike Ajax	-	2101E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A245	2434869.50	1954 May 07	Nike Ajax	-	1541E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A246	2434869.50	1954 May 07	Nike Ajax	-	1354T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A247	2434870.50	1954 May 08	Nike Ajax	-	1437T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A248	2434870.50	1954 May 08	Nike Ajax	-	1333T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A249	2434871.50	1954 May 09	Nike Ajax	-	1342T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A250	2434872.50	1954 May 10	Nike Ajax	-	1398E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A257	2434874.50	1954 May 12	Nike Ajax	-	1484E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A260	2434874.50	1954 May 12	Nike Ajax	-	1334T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A262	2434874.50	1954 May 12	Nike Ajax	-	2207R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A263	2434874.50	1954 May 12	Nike Ajax	-	1700E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A264	2434874.50	1954 May 12	Nike Ajax	-	1643E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A265	2434874.50	1954 May 12	Nike Ajax	-	1467E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A266	2434874.50	1954 May 12	Nike Ajax	-	1305R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A258	2434874.50	1954 May 12	Nike Ajax	-	2177R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A259	2434874.50	1954 May 12	Nike Ajax	-	2249R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A261	2434874.50	1954 May 12	Nike Ajax	-	1345R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A269	2434875.50	1954 May 13	Nike Ajax	-	1350T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A275	2434876.50	1954 May 14	Nike Ajax	-	1405T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A276	2434876.50	1954 May 14	Nike Ajax	-	1692E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A277	2434876.50	1954 May 14	Nike Ajax	-	1511E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A280	2434879.50	1954 May 17	Nike Ajax	-	1716E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A283	2434880.50	1954 May 18	Nike Ajax	-	1455T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A286	2434881.50	1954 May 19	Nike Ajax	-	1419R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A287	2434881.50	1954 May 19	Nike Ajax	-	1394T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A288	2434881.50	1954 May 19	Nike Ajax	-	1377E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A290	2434882.50	1954 May 20	Nike Ajax	-	1390T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A291	2434882.50	1954 May 20	Nike Ajax	-	1415	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A295	2434886.50	1954 May 24	Nike Ajax	-	1389T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A297	2434887.50	1954 May 25	Nike Ajax	-	1414TT	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A300	2434888.50	1954 May 26	Nike Ajax	-	1301R Bell motor	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A302	2434889.50	1954 May 27	Nike Ajax	-	1393T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A303	2434890.50	1954 May 28	Nike Ajax	-	1475T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A304	2434890.50	1954 May 28	Nike Ajax	-	1335T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A305	2434890.50	1954 May 28	Nike Ajax	-	1408T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A308	2434895.50	1954 Jun 02	Nike Ajax	-	1346T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A311	2434895.50	1954 Jun 02	Nike Ajax	-	1465T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A309	2434895.50	1954 Jun 02	Nike Ajax	-	1249B-1423	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A310	2434895.50	1954 Jun 02	Nike Ajax	-	1249B-1913	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A322	2434897.50	1954 Jun 04	Nike Ajax	-	1344T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A325	2434900.50	1954 Jun 07	Nike Ajax	-	2266A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A326	2434900.50	1954 Jun 07	Nike Ajax	-	1356A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A327	2434900.50	1954 Jun 07	Nike Ajax	-	2166A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A328	2434900.50	1954 Jun 07	Nike Ajax	-	1340A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A331	2434901.50	1954 Jun 08	Nike Ajax	-	1332T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A333	2434902.50	1954 Jun 09	Nike Ajax	-	1387T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A334	2434902.50	1954 Jun 09	Nike Ajax	-	1348E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A335	2434902.50	1954 Jun 09	Nike Ajax	-	1249B-2291	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A336	2434902.50	1954 Jun 09	Nike Ajax	-	1421R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A337	2434902.50	1954 Jun 09	Nike Ajax	-	1243R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A342	2434903.50	1954 Jun 10	Nike Ajax	-	1434A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A343	2434904.50	1954 Jun 11	Nike Ajax	-	1808E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A344	2434904.50	1954 Jun 11	Nike Ajax	-	1519E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A347	2434907.50	1954 Jun 14	Nike Ajax	-	1388T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A348	2434908.50	1954 Jun 15	Nike Ajax	-	1424E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A349	2434909.50	1954 Jun 16	Nike Ajax	-	1420E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A350	2434909.50	1954 Jun 16	Nike Ajax	-	2341R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A352	2434909.50	1954 Jun 16	Nike Ajax	-	1385E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A353	2434909.50	1954 Jun 16	Nike Ajax	-	2363RR	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A351	2434909.50	1954 Jun 16	Nike Ajax	-	2311R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A354	2434909.50	1954 Jun 16	Nike Ajax	-	2481T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A355	2434909.50	1954 Jun 16	Nike Ajax	-	1324E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A356	2434909.50	1954 Jun 16	Nike Ajax	-	1347T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A360	2434910.50	1954 Jun 17	Nike Ajax	-	1402T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A363	2434914.50	1954 Jun 21	Nike Ajax	-	2424A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A365	2434915.50	1954 Jun 22	Nike Ajax	-	2477T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A369	2434916.50	1954 Jun 23	Nike Ajax	-	1438A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A371	2434916.50	1954 Jun 23	Nike Ajax	-	1495E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A372	2434916.50	1954 Jun 23	Nike Ajax	-	2387R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A370	2434916.50	1954 Jun 23	Nike Ajax	-	2299R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A368	2434916.50	1954 Jun 23	Nike Ajax	-	2415R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A373	2434916.50	1954 Jun 23	Nike Ajax	-	1337E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A375	2434917.50	1954 Jun 24	Nike Ajax	-	1448E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A376	2434918.50	1954 Jun 25	Nike Ajax	-	2379T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A377	2434918.50	1954 Jun 25	Nike Ajax	-	1403T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A378	2434918.50	1954 Jun 25	Nike Ajax	-	1351T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A380	2434921.50	1954 Jun 28	Nike Ajax	-	1391E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A384	2434922.50	1954 Jun 29	Nike Ajax	-	2376A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A385	2434922.50	1954 Jun 29	Nike Ajax	-	1353	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A389	2434923.50	1954 Jun 30	Nike Ajax	-	2478T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A391	2434923.50	1954 Jun 30	Nike Ajax	-	2405R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A390	2434923.50	1954 Jun 30	Nike Ajax	-	2395R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A392	2434924.50	1954 Jul 01	Nike Ajax	-	1399T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A394	2434925.50	1954 Jul 02	Nike Ajax	-	2755T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A396	2434930.50	1954 Jul 07	Nike Ajax	-	2752T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A397	2434930.50	1954 Jul 07	Nike Ajax	-	1349R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A398	2434930.50	1954 Jul 07	Nike Ajax	-	2437R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A399	2434932.50	1954 Jul 09	Nike Ajax	-	2754T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A400	2434932.50	1954 Jul 09	Nike Ajax	-	1793E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A401	2434932.50	1954 Jul 09	Nike Ajax	-	1331E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A402	2434932.50	1954 Jul 09	Nike Ajax	-	1407E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A403	2434932.50	1954 Jul 09	Nike Ajax	-	1461E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A404	2434932.50	1954 Jul 09	Nike Ajax	-	1359E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A405	2434932.50	1954 Jul 09	Nike Ajax	-	1464E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A406	2434932.50	1954 Jul 09	Nike Ajax	-	1527E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A407	2434932.50	1954 Jul 09	Nike Ajax	-	1740E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A410	2434936.50	1954 Jul 13	Nike Ajax	-	2765T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A411	2434937.50	1954 Jul 14	Nike Ajax	-	2476T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A413	2434939.50	1954 Jul 16	Nike Ajax	-	2753T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A415	2434942.50	1954 Jul 19	Nike Ajax	-	1754E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A416	2434942.50	1954 Jul 19	Nike Ajax	-	1440E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A423	2434943.50	1954 Jul 20	Nike Ajax	-	1406E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A424	2434943.50	1954 Jul 20	Nike Ajax	-	1428E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A425	2434944.50	1954 Jul 21	Nike Ajax	-	2767T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A426	2434944.50	1954 Jul 21	Nike Ajax	-	2751T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A431	2434945.50	1954 Jul 22	Nike Ajax	-	1426E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A432	2434945.50	1954 Jul 22	Nike Ajax	-	2779T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A433	2434945.50	1954 Jul 22	Nike Ajax	-	1410A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A436	2434949.50	1954 Jul 26	Nike Ajax	-	1352E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A437	2434949.50	1954 Jul 26	Nike Ajax	-	1818E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A438	2434949.50	1954 Jul 26	Nike Ajax	-	1446E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A439	2434949.50	1954 Jul 26	Nike Ajax	-	1411E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A440	2434949.50	1954 Jul 26	Nike Ajax	-	1417E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A441	2434949.50	1954 Jul 26	Nike Ajax	-	1457E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A445	2434950.50	1954 Jul 27	Nike Ajax	-	1450A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A446	2434950.50	1954 Jul 27	Nike Ajax	-	1341E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A447	2434950.50	1954 Jul 27	Nike Ajax	-	1827E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A450	2434951.50	1954 Jul 28	Nike Ajax	-	1447E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A451	2434951.50	1954 Jul 28	Nike Ajax	-	2482A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A452	2434951.50	1954 Jul 28	Nike Ajax	-	1420E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A453	2434951.50	1954 Jul 28	Nike Ajax	-	2770T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A454	2434951.50	1954 Jul 28	Nike Ajax	-	1249B-2439	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A455	2434951.50	1954 Jul 28	Nike Ajax	-	1432E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A456	2434951.50	1954 Jul 28	Nike Ajax	-	2567R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A458	2434956.50	1954 Aug 02	Nike Ajax	-	2773T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A459	2434957.50	1954 Aug 03	Nike Ajax	-	2758T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A461	2434958.50	1954 Aug 04	Nike Ajax	-	2445R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A462	2434958.50	1954 Aug 04	Nike Ajax	-	2449R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A460	2434958.50	1954 Aug 04	Nike Ajax	-	2455R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A464	2434960.50	1954 Aug 06	Nike Ajax	-	2822T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A465	2434960.50	1954 Aug 06	Nike Ajax	-	2756T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A470	2434965.50	1954 Aug 11	Nike Ajax	-	2775T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A471	2434965.50	1954 Aug 11	Nike Ajax	-	2540A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A472	2434965.50	1954 Aug 11	Nike Ajax	-	2527R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A473	2434965.50	1954 Aug 11	Nike Ajax	-	2776T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A476	2434967.50	1954 Aug 13	Nike Ajax	-	1156E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A477	2434971.50	1954 Aug 17	Nike Ajax	-	2564T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A479	2434972.50	1954 Aug 18	Nike Ajax	-	2825T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A480	2434972.50	1954 Aug 18	Nike Ajax	-	2469R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A478	2434972.50	1954 Aug 18	Nike Ajax	-	2447R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A482	2434977.50	1954 Aug 23	Nike Ajax	-	2827T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A483	2434978.50	1954 Aug 24	Nike Ajax	-	2789T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A485	2434979.50	1954 Aug 25	Nike Ajax	-	2510E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A486	2434979.50	1954 Aug 25	Nike Ajax	-	2759T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A487	2434979.50	1954 Aug 25	Nike Ajax	-	2350E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A489	2434979.50	1954 Aug 25	Nike Ajax	-	2805T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A492	2434980.50	1954 Aug 26	Nike Ajax	-	2833T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A493	2434981.50	1954 Aug 27	Nike Ajax	-	2699T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A494	2434985.50	1954 Aug 31	Nike Ajax	-	2762T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A497	2434986.50	1954 Sep 01	Nike Ajax	-	2725R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A500	2434987.50	1954 Sep 02	Nike Ajax	-	2691T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A501	2434987.50	1954 Sep 02	Nike Ajax	-	2513R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A504	2434993.50	1954 Sep 08	Nike Ajax	-	2695T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A505	2434993.50	1954 Sep 08	Nike Ajax	-	2456A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A507	2434993.50	1954 Sep 08	Nike Ajax	-	2512A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A508	2434993.50	1954 Sep 08	Nike Ajax	-	2625R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A503	2434993.50	1954 Sep 08	Nike Ajax	-	2757R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A506	2434993.50	1954 Sep 08	Nike Ajax	-	2563R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A509	2434993.50	1954 Sep 08	Nike Ajax	-	2617R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A513	2434995.50	1954 Sep 10	Nike Ajax	-	2458A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A514	2434995.50	1954 Sep 10	Nike Ajax	-	2807T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A515	2434995.50	1954 Sep 10	Nike Ajax	-	2595A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A516	2434998.50	1954 Sep 13	Nike Ajax	-	2831T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A517	2434998.50	1954 Sep 13	Nike Ajax	-	2808T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A518	2434998.50	1954 Sep 13	Nike Ajax	-	2562E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A519	2434998.50	1954 Sep 13	Nike Ajax	-	2446E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A520	2434998.50	1954 Sep 13	Nike Ajax	-	2793T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A521	2434999.50	1954 Sep 14	Nike Ajax	-	2803T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A523	2435000.50	1954 Sep 15	Nike Ajax	-	2636A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A717	2435000.50	1954 Sep 15	Nike Ajax	-	1249B-2531	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A527	2435000.50	1954 Sep 15	Nike Ajax	-	2823T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A528	2435005.50	1954 Sep 20	Nike Ajax	-	2802T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A534	2435007.50	1954 Sep 22	Nike Ajax	-	2797R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A535	2435007.50	1954 Sep 22	Nike Ajax	-	2715R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A541	2435008.50	1954 Sep 23	Nike Ajax	-	2826T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A542	2435008.50	1954 Sep 23	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A543	2435009.50	1954 Sep 24	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-A544	2435012.50	1954 Sep 27	Nike Ajax	-	3644A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A554	2435014.50	1954 Sep 29	Nike Ajax	-	2787R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A553	2435014.50	1954 Sep 29	Nike Ajax	-	2809T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A556	2435016.50	1954 Oct 01	Nike Ajax	-	1363T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A558	2435019.50	1954 Oct 04	Nike Ajax	-	3305T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A560	2435021.50	1954 Oct 06	Nike Ajax	-	2791T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A561	2435022.50	1954 Oct 07	Nike Ajax	-	2760T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A563	2435023.50	1954 Oct 08	Nike Ajax	-	3311T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A564	2435023.50	1954 Oct 08	Nike Ajax	-	3306T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A571	2435028.50	1954 Oct 13	Nike Ajax	-	3101R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A570	2435028.50	1954 Oct 13	Nike Ajax	-	2783R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A572	2435028.50	1954 Oct 13	Nike Ajax	-	2834T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A577	2435030.35	1954 Oct 14 2024	Nike Nike HPAG	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1954-S77	2435030.39	1954 Oct 14 2120	Nike Nike T40 T55	-	-	0.000	PARD	SS	-	PARD/	Reentry Test	RP-1028	TN-D-889	-
1954-M02	2435030.42	1954 Oct 14 2212	Nike Nike T40	-	-	0.000	PARD	SS	-	PARD/	Test	RP-1028	TN-D-888	-
1954-A575	2435029.50	1954 Oct 14	Nike Ajax	-	2798T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A576	2435029.50	1954 Oct 14	Nike Ajax	-	3323T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A579	2435033.50	1954 Oct 18	Nike Ajax	-	3326T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A585	2435035.50	1954 Oct 20	Nike Ajax	-	2987R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A586	2435035.50	1954 Oct 20	Nike Ajax	-	3337T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A587	2435035.50	1954 Oct 20	Nike Ajax	-	2443R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A592	2435040.50	1954 Oct 25	Nike Ajax	-	3282T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A595	2435042.50	1954 Oct 27	Nike Ajax	-	2557R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A596	2435042.50	1954 Oct 27	Nike Ajax	-	2799R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A594	2435042.50	1954 Oct 27	Nike Ajax	-	2909R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A599	2435043.50	1954 Oct 28	Nike Ajax	-	2821T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A601	2435047.50	1954 Nov 01	Nike Ajax	-	3316T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A605	2435049.50	1954 Nov 03	Nike Ajax	-	2785R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A608	2435050.50	1954 Nov 04	Nike Ajax	-	2835T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A609	2435050.50	1954 Nov 04	Nike Ajax	-	3255T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A611	2435051.50	1954 Nov 05	Nike Ajax	-	2608A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A612	2435054.50	1954 Nov 08	Nike Ajax	-	2766A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A613	2435054.50	1954 Nov 08	Nike Ajax	-	2586E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A614	2435054.50	1954 Nov 08	Nike Ajax	-	2708E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A615	2435054.50	1954 Nov 08	Nike Ajax	-	2813A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A618	2435055.50	1954 Nov 09	Nike Ajax	-	1470E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A619	2435055.50	1954 Nov 09	Nike Ajax	-	1670E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A620	2435055.50	1954 Nov 09	Nike Ajax	-	3331T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A622	2435056.50	1954 Nov 10	Nike Ajax	-	2817R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A624	2435056.50	1954 Nov 10	Nike Ajax	-	2801T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A625	2435056.50	1954 Nov 10	Nike Ajax	-	2750A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A627	2435056.50	1954 Nov 10	Nike Ajax	-	2811R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A626	2435056.50	1954 Nov 10	Nike Ajax	-	2969R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A623	2435056.50	1954 Nov 10	Nike Ajax	-	2535R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A628	2435057.50	1954 Nov 11	Nike Ajax	-	3320T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A629	2435058.50	1954 Nov 12	Nike Ajax	-	2777T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A634	2435062.50	1954 Nov 16	Nike Ajax	-	2786A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A638	2435063.50	1954 Nov 17	Nike Ajax	-	3492T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A639	2435063.50	1954 Nov 17	Nike Ajax	-	1327R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A640	2435063.50	1954 Nov 17	Nike Ajax	-	2995R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A637	2435063.50	1954 Nov 17	Nike Ajax	-	3001R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A636	2435063.50	1954 Nov 17	Nike Ajax	-	2939R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A645	2435065.50	1954 Nov 19	Nike Ajax	-	3249T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A646	2435065.50	1954 Nov 19	Nike Ajax	-	3329T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A647	2435065.50	1954 Nov 19	Nike Ajax	-	3310T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A648	2435065.50	1954 Nov 19	Nike Ajax	-	2800E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A651	2435068.50	1954 Nov 22	Nike Ajax	-	3270T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A654	2435069.50	1954 Nov 23	Nike Ajax	-	2816E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A655	2435069.50	1954 Nov 23	Nike Ajax	-	3536T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A656	2435069.50	1954 Nov 23	Nike Ajax	-	1242E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A661	2435070.50	1954 Nov 24	Nike Ajax	-	3095R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A662	2435070.50	1954 Nov 24	Nike Ajax	-	3019R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A659	2435070.50	1954 Nov 24	Nike Ajax	-	2999R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A660	2435070.50	1954 Nov 24	Nike Ajax	-	2819R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A666	2435077.50	1954 Dec 01	Nike Ajax	-	3075R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A668	2435077.50	1954 Dec 01	Nike Ajax	-	3089R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A718	2435077.50	1954 Dec 1	Nike Ajax	-	3109R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A667	2435077.50	1954 Dec 01	Nike Ajax	-	2525R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A669	2435077.50	1954 Dec 01	Nike Ajax	-	2794A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A670	2435078.50	1954 Dec 02	Nike Ajax	-	2774A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A671	2435078.50	1954 Dec 02	Nike Ajax	-	3321T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A672	2435079.50	1954 Dec 03	Nike Ajax	-	3314T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A675	2435082.50	1954 Dec 06	Nike Ajax	-	2574E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A676	2435082.50	1954 Dec 06	Nike Ajax	-	1240E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A677	2435082.50	1954 Dec 06	Nike Ajax	-	2820A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A678	2435082.50	1954 Dec 06	Nike Ajax	-	3518T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A679	2435083.50	1954 Dec 07	Nike Ajax	-	3317T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A681	2435084.50	1954 Dec 08	Nike Ajax	-	3315T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A682	2435084.50	1954 Dec 08	Nike Ajax	-	2959R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A683	2435084.50	1954 Dec 08	Nike Ajax	-	3099R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A684	2435085.50	1954 Dec 09	Nike Ajax	-	2772T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A685	2435086.50	1954 Dec 10	Nike Ajax	-	3333T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A686	2435086.50	1954 Dec 10	Nike Ajax	-	3324T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A687	2435086.50	1954 Dec 10	Nike Ajax	-	2810E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A688	2435086.50	1954 Dec 10	Nike Ajax	-	2818E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A690	2435087.50	1954 Dec 11	Nike Ajax	-	1498T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A691	2435088.50	1954 Dec 12	Nike Ajax	-	1505T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A692	2435088.50	1954 Dec 12	Nike Ajax	-	3272T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A696	2435089.50	1954 Dec 13	Nike Ajax	-	1513T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A697	2435089.50	1954 Dec 13	Nike Ajax	-	1497T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A700	2435090.50	1954 Dec 14	Nike Ajax	-	1514T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A701	2435090.50	1954 Dec 14	Nike Ajax	-	1516T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A703	2435091.50	1954 Dec 15	Nike Ajax	-	1249B-3897	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A704	2435091.50	1954 Dec 15	Nike Ajax	-	3031R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A705	2435091.50	1954 Dec 15	Nike Ajax	-	2792E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A706	2435091.50	1954 Dec 15	Nike Ajax	-	2804E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1954-A02	2434742.50	1954?	Nike Deacon	1	-	0.000	ARAA	SS	-	PARD/	Test	TN-D-216	-	-
1955-A03	2435112.50	1955 Jan 05	Nike Ajax	-	2814A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A04	2435112.50	1955 Jan 5	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A05	2435113.50	1955 Jan 06	Nike Ajax	-	3090R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A06	2435113.50	1955 Jan 06	Nike Ajax	-	3091R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A07	2435113.50	1955 Jan 06	Nike Ajax	-	2608A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A08	2435113.50	1955 Jan 06	Nike Ajax	-	2796A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A10	2435113.50	1955 Jan 06	Nike Ajax	-	3088R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A09	2435113.50	1955 Jan 06	Nike Ajax	-	3090R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A13	2435119.50	1955 Jan 12	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A16	2435120.50	1955 Jan 13	Nike Ajax	-	2771T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A19	2435124.50	1955 Jan 17	Nike Ajax	-	3307T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A24	2435125.50	1955 Jan 18	Nike Ajax	-	3096R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A25	2435125.50	1955 Jan 18	Nike Ajax	-	3102R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A26	2435125.50	1955 Jan 18	Nike Ajax	-	3044R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A27	2435125.50	1955 Jan 18	Nike Ajax	-	3105R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A31	2435126.50	1955 Jan 19	Nike Ajax	-	1526T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A32	2435126.50	1955 Jan 19	Nike Ajax	-	1673E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A33	2435126.50	1955 Jan 19	Nike Ajax	-	1650E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A34	2435127.50	1955 Jan 20	Nike Ajax	-	1518T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A39	2435128.50	1955 Jan 21	Nike Ajax	-	1486T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A40	2435128.50	1955 Jan 21	Nike Ajax	-	1252E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A41	2435128.50	1955 Jan 21	Nike Ajax	-	2828E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A42	2435131.50	1955 Jan 24	Nike Ajax	-	1530T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A47	2435132.50	1955 Jan 25	Nike Ajax	-	3267T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A48	2435132.50	1955 Jan 25	Nike Ajax	-	2882E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A49	2435133.50	1955 Jan 26	Nike Ajax	-	T 1532	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A53	2435134.50	1955 Jan 27	Nike Ajax	-	1947T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A54	2435134.50	1955 Jan 27	Nike Ajax	-	1416A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A58	2435135.50	1955 Jan 28	Nike Ajax	-	1960T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A59	2435135.50	1955 Jan 28	Nike Ajax	-	1481T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A60	2435135.50	1955 Jan 28	Nike Ajax	-	2838A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A61	2435135.50	1955 Jan 28	Nike Ajax	-	2790A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A64	2435139.50	1955 Feb 01	Nike Ajax	-	2812E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A65	2435139.50	1955 Feb 01	Nike Ajax	-	2866E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A66	2435140.50	1955 Feb 02	Nike Ajax	-	3328T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A68	2435141.50	1955 Feb 03	Nike Ajax	-	1483T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A69	2435141.50	1955 Feb 03	Nike Ajax	-	1887T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A70	2435142.50	1955 Feb 04	Nike Ajax	-	1488T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A71	2435142.50	1955 Feb 04	Nike Ajax	-	1543T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A72	2435142.50	1955 Feb 04	Nike Ajax	-	3640T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A73	2435142.50	1955 Feb 04	Nike Ajax	-	1822T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A74	2435143.50	1955 Feb 05	Nike Ajax	-	1833T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A75	2435144.50	1955 Feb 06	Nike Ajax	-	1854T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A76	2435144.50	1955 Feb 06	Nike Ajax	-	1506T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A77	2435144.50	1955 Feb 06	Nike Ajax	-	1933T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A78	2435145.50	1955 Feb 07	Nike Ajax	-	1823T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A79	2435145.50	1955 Feb 07	Nike Ajax	-	1537T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A83	2435146.50	1955 Feb 08	Nike Ajax	-	1945T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A84	2435146.50	1955 Feb 08	Nike Ajax	-	2932E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A85	2435147.50	1955 Feb 09	Nike Ajax	-	1953T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A86	2435147.50	1955 Feb 09	Nike Ajax	-	3098R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A88	2435148.38	1955 Feb 9 2106	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1955-A89	2435148.39	1955 Feb 9 2119	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1955-A90	2435148.50	1955 Feb 10	Nike Ajax	-	1502T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A94	2435149.50	1955 Feb 11	Nike Ajax	-	1942T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A95	2435150.50	1955 Feb 12	Nike Ajax	-	1739T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A96	2435151.50	1955 Feb 13	Nike Ajax	-	1892T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A97	2435151.50	1955 Feb 13	Nike Ajax	-	1618T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A98	2435152.50	1955 Feb 14	Nike Ajax	-	1578T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A99	2435152.50	1955 Feb 14	Nike Ajax	-	1795T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A100	2435153.50	1955 Feb 15	Nike Ajax	-	1722T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A103	2435154.50	1955 Feb 16	Nike Ajax	-	4249E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A106	2435154.50	1955 Feb 16	Nike Ajax	-	2950R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A102	2435154.50	1955 Feb 16	Nike Ajax	-	3078R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A105	2435154.50	1955 Feb 16	Nike Ajax	-	4209R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A107	2435154.50	1955 Feb 16	Nike Ajax	-	4197R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A104	2435154.50	1955 Feb 16	Nike Ajax	-	3105R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A108	2435154.50	1955 Feb 16	Nike Ajax	-	1539T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A109	2435154.50	1955 Feb 16	Nike Ajax	-	1504T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A110	2435154.50	1955 Feb 16	Nike Ajax	-	4231E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A112	2435156.50	1955 Feb 18	Nike Ajax	-	1752T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A113	2435157.50	1955 Feb 19	Nike Ajax	-	1713T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A114	2435158.50	1955 Feb 20	Nike Ajax	-	1923T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A116	2435160.50	1955 Feb 22	Nike Ajax	-	1696T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A117	2435160.50	1955 Feb 22	Nike Ajax	-	1715T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A118	2435160.50	1955 Feb 22	Nike Ajax	-	1737T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A119	2435161.50	1955 Feb 23	Nike Ajax	-	1963T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A120	2435161.50	1955 Feb 23	Nike Ajax	-	1709T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A122	2435161.50	1955 Feb 23	Nike Ajax	-	4198E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A125	2435161.50	1955 Feb 23	Nike Ajax	-	1776T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A126	2435161.50	1955 Feb 23	Nike Ajax	-	4219R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A124	2435161.50	1955 Feb 23	Nike Ajax	-	2980R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A123	2435161.50	1955 Feb 23	Nike Ajax	-	2997R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A121	2435161.50	1955 Feb 23	Nike Ajax	-	2457R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A127	2435161.50	1955 Feb 23	Nike Ajax	-	4223E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A134	2435163.50	1955 Feb 25	Nike Ajax	-	1910T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A135	2435163.50	1955 Feb 25	Nike Ajax	-	1931T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A136	2435166.50	1955 Feb 28	Nike Ajax	-	3313T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A137	2435167.50	1955 Mar 01	Nike Ajax	-	1691T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A138	2435167.50	1955 Mar 01	Nike Ajax	-	1507T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A139	2435167.50	1955 Mar 01	Nike Ajax	-	1956T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A140	2435167.50	1955 Mar 01	Nike Ajax	-	1844T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A144	2435168.50	1955 Mar 02	Nike Ajax	-	1955T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A145	2435169.42	1955 Mar 2 2209	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1955-A147	2435169.50	1955 Mar 03	Nike Ajax	-	1751T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A148	2435169.50	1955 Mar 03	Nike Ajax	-	1711T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A149	2435169.50	1955 Mar 03	Nike Ajax	-	1726T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A150	2435169.50	1955 Mar 03	Nike Ajax	-	1613T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A151	2435170.50	1955 Mar 04	Nike Ajax	-	2763T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A152	2435170.50	1955 Mar 04	Nike Ajax	-	1517T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A153	2435170.50	1955 Mar 04	Nike Ajax	-	1904T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A154	2435170.50	1955 Mar 04	Nike Ajax	-	3309T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A155	2435170.50	1955 Mar 04	Nike Ajax	-	4211E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A156	2435170.50	1955 Mar 04	Nike Ajax	-	1644T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A157	2435171.50	1955 Mar 05	Nike Ajax	-	1764T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A158	2435174.50	1955 Mar 08	Nike Ajax	-	1976T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A159	2435174.50	1955 Mar 08	Nike Ajax	-	1899T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A160	2435174.50	1955 Mar 08	Nike Ajax	-	1741T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A163	2435175.50	1955 Mar 09	Nike Ajax	-	3097R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A164	2435175.50	1955 Mar 09	Nike Ajax	-	1702T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A165	2435175.50	1955 Mar 09	Nike Ajax	-	1727T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A166	2435175.50	1955 Mar 09	Nike Ajax	-	1886T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A167	2435175.50	1955 Mar 09	Nike Ajax	-	3014R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A168	2435175.50	1955 Mar 09	Nike Ajax	-	1927T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A169	2435175.50	1955 Mar 09	Nike Ajax	-	4351E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A170	2435176.50	1955 Mar 10	Nike Ajax	-	1975T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A171	2435176.50	1955 Mar 10	Nike Ajax	-	1753T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A172	2435176.50	1955 Mar 10	Nike Ajax	-	1949T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A173	2435176.50	1955 Mar 10	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	NACA-RM-SL55F24	-
1955-A174	2435177.32	1955 Mar 10 1942	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1955-A175	2435177.41	1955 Mar 10 2146	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1955-A176	2435177.50	1955 Mar 11	Nike Ajax	-	4199E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A178	2435177.50	1955 Mar 11	Nike Ajax	-	3529T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A179	2435177.50	1955 Mar 11	Nike Ajax	-	1984T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A180	2435177.50	1955 Mar 11	Nike Ajax	-	1787T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A181	2435177.50	1955 Mar 11	Nike Ajax	-	1766T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A184	2435180.50	1955 Mar 14	Nike Ajax	-	1962T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A186	2435181.50	1955 Mar 15	Nike Ajax	-	1851T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A188	2435182.50	1955 Mar 16	Nike Ajax	-	1248E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A189	2435182.50	1955 Mar 16	Nike Ajax	-	1948T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A191	2435182.50	1955 Mar 16	Nike Ajax	-	2996R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A190	2435182.50	1955 Mar 16	Nike Ajax	-	3030R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A194	2435183.50	1955 Mar 17	Nike Ajax	-	1951T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A195	2435184.50	1955 Mar 18	Nike Ajax	-	1646T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A196	2435184.50	1955 Mar 18	Nike Ajax	-	1660T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A197	2435184.50	1955 Mar 18	Nike Ajax	-	1996T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A198	2435184.50	1955 Mar 18	Nike Ajax	-	1924T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A199	2435185.50	1955 Mar 19	Nike Ajax	-	1981T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A200	2435186.50	1955 Mar 20	Nike Ajax	-	1891T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A201	2435186.50	1955 Mar 20	Nike Ajax	-	1988T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A202	2435186.50	1955 Mar 20	Nike Ajax	-	1825T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A203	2435187.50	1955 Mar 21	Nike Ajax	-	1540T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A206	2435188.50	1955 Mar 22	Nike Ajax	-	1853T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A209	2435189.50	1955 Mar 23	Nike Ajax	-	3026R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A210	2435189.50	1955 Mar 23	Nike Ajax	-	4213R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A211	2435189.50	1955 Mar 23	Nike Ajax	-	2824	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A212	2435189.50	1955 Mar 23	Nike Ajax	-	1706T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A215	2435190.50	1955 Mar 24	Nike Ajax	-	1717T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A221	2435191.50	1955 Mar 25	Nike Ajax	-	1874T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A222	2435191.50	1955 Mar 25	Nike Ajax	-	1560T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A223	2435191.50	1955 Mar 25	Nike Ajax	-	1961T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A224	2435192.50	1955 Mar 26	Nike Ajax	-	1954T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A225	2435192.50	1955 Mar 26	Nike Ajax	-	1831T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A226	2435193.50	1955 Mar 27	Nike Ajax	-	1878T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A227	2435193.50	1955 Mar 27	Nike Ajax	-	1994T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A230	2435194.50	1955 Mar 28	Nike Ajax	-	1653T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A232	2435195.50	1955 Mar 29	Nike Ajax	-	4233	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A234	2435196.50	1955 Mar 30	Nike Ajax	-	1884T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A235	2435197.50	1955 Mar 31	Nike Ajax	-	1778T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A241	2435201.50	1955 Apr 04	Nike Ajax	-	1772T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A242	2435201.50	1955 Apr 04	Nike Ajax	-	1957T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A243	2435201.50	1955 Apr 04	Nike Ajax	-	1879T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A244	2435201.50	1955 Apr 04	Nike Ajax	-	1606T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A248	2435202.50	1955 Apr 05	Nike Ajax	-	1867T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A249	2435202.50	1955 Apr 05	Nike Ajax	-	1758T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A250	2435202.50	1955 Apr 05	Nike Ajax	-	1568T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A253	2435203.50	1955 Apr 06	Nike Ajax	-	1901T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A256	2435203.50	1955 Apr 06	Nike Ajax	-	4252R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A255	2435203.50	1955 Apr 06	Nike Ajax	-	4442R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A252	2435203.50	1955 Apr 06	Nike Ajax	-	4256R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A254	2435203.50	1955 Apr 06	Nike Ajax	-	4222R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A258	2435203.50	1955 Apr 06	Nike Ajax	-	1857T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A261	2435204.50	1955 Apr 07	Nike Ajax	-	1797T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A266	2435205.50	1955 Apr 8	Nike Nike Tri-Deacon T40	-	-	0.000	PARD	AF	U	-	Test	RP-1028	TN-D-824	-
1955-S27	2435206.14	1955 Apr 8 1519	Nike Deacon	-	-	0.000	AFCRL/UMI	SS	-	PARD/UMI/	Test	Newell	-	-
1955-A267	2435207.50	1955 Apr 10	Nike Ajax	-	1548T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A268	2435207.50	1955 Apr 10	Nike Ajax	-	1620T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A269	2435207.50	1955 Apr 10	Nike Ajax	-	1572T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A270	2435208.50	1955 Apr 11	Nike Ajax	-	1658T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A271	2435208.50	1955 Apr 11	Nike Ajax	-	1694T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A272	2435209.50	1955 Apr 12	Nike Ajax	-	1921T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A274	2435210.50	1955 Apr 13	Nike Ajax	-	1941T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A280	2435210.50	1955 Apr 13	Nike Ajax	-	4723R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A279	2435210.50	1955 Apr 13	Nike Ajax	-	4191R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A284	2435210.50	1955 Apr 13	Nike Ajax	-	4451R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A278	2435210.50	1955 Apr 13	Nike Ajax	-	4335R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A273	2435210.50	1955 Apr 13	Nike Ajax	-	4189R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A277	2435210.50	1955 Apr 13	Nike Ajax	-	4190R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A283	2435210.50	1955 Apr 13	Nike Ajax	-	4214R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A276	2435210.50	1955 Apr 13	Nike Ajax	-	4743R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A275	2435210.50	1955 Apr 13	Nike Ajax	-	4347R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A282	2435210.50	1955 Apr 13	Nike Ajax	-	4770R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A281	2435210.50	1955 Apr 13	Nike Ajax	-	4754R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A286	2435211.50	1955 Apr 14	Nike Ajax	-	1839T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A287	2435211.50	1955 Apr 14	Nike Ajax	-	1828T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A288	2435211.50	1955 Apr 14	Nike Ajax	-	1896T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A289	2435211.50	1955 Apr 14	Nike Ajax	-	1881T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A290	2435212.50	1955 Apr 15	Nike Ajax	-	1863T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A291	2435212.50	1955 Apr 15	Nike Ajax	-	1885T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A294	2435216.50	1955 Apr 19	Nike Ajax	-	1915T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A296	2435216.50	1955 Apr 19	Nike Ajax	-	1291R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A295	2435216.50	1955 Apr 19	Nike Ajax	-	4202R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A297	2435216.50	1955 Apr 19	Nike Ajax	-	4192R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A301	2435217.50	1955 Apr 20	Nike Ajax	-	1870T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A302	2435217.50	1955 Apr 20	Nike Ajax	-	1840T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A303	2435217.50	1955 Apr 20	Nike Ajax	-	4446A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A306	2435218.50	1955 Apr 21	Nike Ajax	-	1930T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A307	2435218.50	1955 Apr 21	Nike Ajax	-	1869T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A308	2435218.50	1955 Apr 21	Nike Ajax	-	1841T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A310	2435218.50	1955 Apr 21	Nike Ajax	-	1855T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A311	2435219.50	1955 Apr 22	Nike Ajax	-	1883T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A312	2435219.50	1955 Apr 22	Nike Ajax	-	1784T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A313	2435223.50	1955 Apr 26	Nike Ajax	-	1762T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A314	2435223.50	1955 Apr 26	Nike Ajax	-	1794T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A315	2435223.50	1955 Apr 26	Nike Ajax	-	4204E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A317	2435224.50	1955 Apr 27	Nike Ajax	-	1597T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A318	2435224.50	1955 Apr 27	Nike Ajax	-	1919T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A319	2435224.50	1955 Apr 27	Nike Ajax	-	1800E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A321	2435225.50	1955 Apr 28	Nike Ajax	-	1834T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A322	2435225.50	1955 Apr 28	Nike Ajax	-	1654T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A323	2435225.50	1955 Apr 28	Nike Ajax	-	1664T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A324	2435225.50	1955 Apr 28	Nike Ajax	-	1874T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A325	2435225.50	1955 Apr 28	Nike Ajax	-	1893T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A327	2435226.50	1955 Apr 29	Nike Ajax	-	1837T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A328	2435226.50	1955 Apr 29	Nike Ajax	-	1905T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A329	2435229.50	1955 May 02	Nike Ajax	-	1860T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A332	2435230.50	1955 May 03	Nike Ajax	-	1918E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A333	2435230.50	1955 May 03	Nike Ajax	-	1761T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A334	2435231.50	1955 May 04	Nike Ajax	-	1533T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A335	2435231.50	1955 May 04	Nike Ajax	-	1922T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A336	2435231.50	1955 May 04	Nike Ajax	-	1738T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A338	2435232.50	1955 May 05	Nike Ajax	-	4445A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A339	2435232.50	1955 May 05	Nike Ajax	-	1888T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A341	2435233.50	1955 May 06	Nike Ajax	-	1920T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A342	2435233.50	1955 May 06	Nike Ajax	-	4782A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A343	2435234.50	1955 May 07	Nike Ajax	-	1625T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A344	2435235.50	1955 May 08	Nike Ajax	-	1615T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A345	2435235.50	1955 May 08	Nike Ajax	-	1616T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A346	2435235.50	1955 May 08	Nike Ajax	-	1630T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A347	2435235.50	1955 May 08	Nike Ajax	-	1601T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A348	2435236.50	1955 May 09	Nike Ajax	-	1600T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A352	2435238.50	1955 May 11	Nike Ajax	-	1875T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A353	2435238.50	1955 May 11	Nike Ajax	-	1868T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A354	2435238.50	1955 May 11	Nike Ajax	-	1744T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A355	2435238.50	1955 May 11	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A356	2435239.50	1955 May 12	Nike Ajax	-	1757T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A357	2435239.50	1955 May 12	Nike Ajax	-	4826A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A358	2435240.50	1955 May 13	Nike Ajax	-	1906T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A360	2435241.50	1955 May 14	Nike Ajax	-	1668T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A361	2435241.50	1955 May 14	Nike Ajax	-	1765T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A362	2435242.50	1955 May 15	Nike Ajax	-	1612T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A363	2435242.50	1955 May 15	Nike Ajax	-	1562T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A366	2435244.50	1955 May 17	Nike Ajax	-	1538T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A367	2435244.50	1955 May 17	Nike Ajax	-	1848T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A369	2435244.50	1955 May 17	Nike Ajax	-	1553T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A371	2435246.50	1955 May 19	Nike Ajax	-	1814T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A372	2435246.50	1955 May 19	Nike Ajax	-	1575T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A378	2435251.50	1955 May 24	Nike Ajax	-	1799T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A379	2435251.50	1955 May 24	Nike Ajax	-	1619T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A380	2435251.50	1955 May 24	Nike Ajax	-	1683T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A381	2435251.50	1955 May 24	Nike Ajax	-	5251A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A382	2435251.50	1955 May 24	Nike Ajax	-	1677T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A384	2435252.50	1955 May 25	Nike Ajax	-	1544T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A385	2435252.50	1955 May 25	Nike Ajax	-	1569T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A386	2435252.50	1955 May 25	Nike Ajax	-	1632T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A387	2435252.50	1955 May 25	Nike Ajax	-	1637T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A389	2435252.50	1955 May 25	Nike Ajax	-	4437R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A383	2435252.50	1955 May 25	Nike Ajax	-	4438R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A388	2435252.50	1955 May 25	Nike Ajax	-	4688R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A390	2435252.50	1955 May 25	Nike Ajax	-	1817T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A391	2435253.50	1955 May 26	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A392	2435253.50	1955 May 26	Nike Ajax	-	4852A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A393	2435253.50	1955 May 26	Nike Ajax	-	1820T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A394	2435253.50	1955 May 26	Nike Ajax	-	5253A	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A395	2435253.50	1955 May 26	Nike Ajax	-	2788E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A396	2435253.50	1955 May 26	Nike Ajax	-	2742E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A399	2435254.50	1955 May 27	Nike Ajax	-	1890T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A403	2435258.50	1955 May 31	Nike Ajax	-	2213T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A404	2435258.50	1955 May 31	Nike Ajax	-	2248T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A407	2435259.50	1955 Jun 01	Nike Ajax	-	1582T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A408	2435259.50	1955 Jun 01	Nike Ajax	-	2317T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A409	2435259.50	1955 Jun 01	Nike Ajax	-	1439E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A410	2435259.50	1955 Jun 01	Nike Ajax	-	2253E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A411	2435259.50	1955 Jun 01	Nike Ajax	-	1581T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A412	2435259.50	1955 Jun 01	Nike Ajax	-	2271T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A414	2435260.50	1955 Jun 02	Nike Ajax	-	1917T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A415	2435260.50	1955 Jun 02	Nike Ajax	-	1815T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A416	2435260.50	1955 Jun 02	Nike Ajax	-	2314T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A417	2435260.50	1955 Jun 02	Nike Ajax	-	2255T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A420	2435261.50	1955 Jun 03	Nike Ajax	-	2285T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A421	2435261.50	1955 Jun 03	Nike Ajax	-	4436E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A422	2435261.50	1955 Jun 03	Nike Ajax	-	3856E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A423	2435261.50	1955 Jun 03	Nike Ajax	-	2239E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A424	2435261.50	1955 Jun 03	Nike Ajax	-	1407E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A426	2435265.50	1955 Jun 07	Nike Ajax	-	1781T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A427	2435265.50	1955 Jun 07	Nike Ajax	-	1882T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A429	2435267.50	1955 Jun 09	Nike Ajax	-	1872T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A430	2435267.50	1955 Jun 09	Nike Ajax	-	1801T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A431	2435267.50	1955 Jun 09	Nike Ajax	-	1926T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A432	2435267.50	1955 Jun 09	Nike Ajax	-	1966T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A435	2435268.50	1955 Jun 10	Nike Ajax	-	2246T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A436	2435269.50	1955 Jun 11	Nike Ajax	-	3325T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A437	2435269.50	1955 Jun 11	Nike Ajax	-	2258T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A438	2435270.50	1955 Jun 12	Nike Ajax	-	2293T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A439	2435270.50	1955 Jun 12	Nike Ajax	-	2254T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A440	2435270.50	1955 Jun 12	Nike Ajax	-	2257T	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A441	2435272.40	1955 Jun 13 2131	X-17 HTV	1	Q-4	0.000	6555A	MF	S1	-	Test	X17FR	X-Planes	-
1955-A443	2435272.50	1955 Jun 14	Nike Ajax	-	4435E	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A446	2435273.50	1955 Jun 15	Nike Ajax	-	4654R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A444	2435273.50	1955 Jun 15	Nike Ajax	-	4667R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A447	2435273.50	1955 Jun 15	Nike Ajax	-	4704R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A448	2435273.50	1955 Jun 15	Nike Ajax	-	3025R	0.000	ARAA	AS	-	-	Test	wsmr-history.org	-	-
1955-A504	2435280.50	1955 Jun 22	Nike Ajax	-	1249B-4695	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A505	2435280.50	1955 Jun 22	Nike Ajax	-	1249B-5243	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A450	2435282.33	1955 Jun 23 1957	X-17 HTV	-	H-1	0.000	6555A	MS	-	-	Test	X17FR	X-Planes	-
1955-A451	2435281.50	1955 Jun 23	Nike Nike T40 T55	-	-	0.000	PARD	AF	U	-	Reentry Test	RP-1028	-	-
1955-S49	2435283.25	1955 Jun 24 1804	Nike Deacon	-	-	0.000	AFCRL/UMI	SS	-	UMI/Jones.L	Aeron	Newell	UM-FS	-
1955-A506	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-4443	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A507	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-5211	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A508	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-5255	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A509	2435287.50	1955 Jun 29	Nike Ajax	-	1249B-4440	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A453	2435289.32	1955 Jun 30 1941	X-17 HTV	-	H-3	0.000	6555A	MS	-	-	Test	X17FR	X-Planes	-
1955-A510	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1586	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A511	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1974	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A512	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1714	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A513	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1972	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A514	2435301.50	1955 Jul 13	Nike Ajax	-	1249B-1898	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A457	2435303.40	1955 Jul 14 2134	X-17 HTV	-	H-2	0.000	6555A	MS	-	-	Test	X17FR	X-Planes	-
1955-A515	2435310.50	1955 Jul 22	Nike Ajax	-	1249B-1982	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A516	2435310.50	1955 Jul 22	Nike Ajax	-	1249B-1864	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A517	2435315.50	1955 Jul 27	Nike Ajax	-	1249B-1791	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A518	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-5121	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A519	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-5231	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A520	2435322.50	1955 Aug 3	Nike Ajax	-	1249B-4732	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A521	2435329.50	1955 Aug 10	Nike Ajax	-	1249B-5123	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A522	2435350.50	1955 Aug 31	Nike Ajax	-	1249B-5124	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A469	2435350.50	1955 Sep	Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1955-A523	2435364.50	1955 Sep 14	Nike Ajax	-	1249B-5126	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A475	2435377.50	1955 Sep 27	Nike Deacon	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1955-A524	2435378.50	1955 Sep 28	Nike Ajax	-	1249B-5136	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A525	2435385.50	1955 Oct 5	Nike Ajax	-	1249B-5161	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A526	2435385.50	1955 Oct 5	Nike Ajax	-	1249B-5234	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A481	2435387.50	1955 Oct 7	Nike Nike T40 T55	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1955-A527	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5237	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A528	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5217	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A529	2435399.50	1955 Oct 19	Nike Ajax	-	1249B-5174	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A530	2435406.50	1955 Oct 26	Nike Ajax	-	1249B-5208	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A531	2435413.50	1955 Nov 2	Nike Ajax	-	1249B-5651	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A532	2435420.50	1955 Nov 9	Nike Ajax	-	1249B-5141	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A533	2435427.50	1955 Nov 16	Nike Ajax	-	1249B-5652	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A534	2435427.50	1955 Nov 16	Nike Ajax	-	1249B-5133	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A535	2435429.50	1955 Nov 18	Nike Ajax	-	1249B-7024	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A536	2435434.50	1955 Nov 23	Nike Ajax	-	1249B-5168	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A537	2435442.50	1955 Dec 1	Nike Ajax	-	1249B-5151	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A538	2435448.50	1955 Dec 7	Nike Ajax	-	1249B-5184	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A539	2435455.50	1955 Dec 14	Nike Ajax	-	1249B-5860	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A540	2435455.50	1955 Dec 14	Nike Ajax	-	1249B-	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1955-A497	2435455.50	1955 Dec 14	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1955-A541	2435457.50	1955 Dec 16	Nike Ajax	-	1249B-5139	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A129	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-7033	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A130	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-7027	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A131	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-5840	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A132	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-6204	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A133	2435483.50	1956 Jan 11	Nike Ajax	-	1249B-5154	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A134	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-5179	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A135	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-6961	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A136	2435490.50	1956 Jan 18	Nike Ajax	-	1249B-6972	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A137	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-5155	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A138	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-6962	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A139	2435497.50	1956 Jan 25	Nike Ajax	-	1249B-5250	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A140	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5244	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A141	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5252	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A142	2435504.50	1956 Feb 1	Nike Ajax	-	1249B-5156	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A143	2435511.50	1956 Feb 8	Nike Ajax	-	1249B-6390	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A20	2435518.25	1956 Feb 14 1807	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A144	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-5160	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A145	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-5224	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A146	2435518.50	1956 Feb 15	Nike Ajax	-	1249B-6717	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A147	2435523.50	1956 Feb 20	Nike Ajax	-	1249B-6964	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A148	2435523.50	1956 Feb 20	Nike Ajax	-	1249B-7022	0.000	ARAA	AS	-	-	Test	Nike-History	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A23	2435526.37	1956 Feb 22 2054	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A149	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-6188	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A150	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-6162	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A151	2435526.50	1956 Feb 23	Nike Ajax	-	1249B-5687	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A152	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6966	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A153	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-5158	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A154	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6970	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A155	2435530.50	1956 Feb 27	Nike Ajax	-	1249B-6971	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A156	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-5221	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A157	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-5743	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A158	2435531.50	1956 Feb 28	Nike Ajax	-	1249B-6470	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A24	2435532.43	1956 Feb 28 2216	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A25	2435532.44	1956 Feb 28 2227	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A159	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-5273	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A160	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-6710	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A161	2435532.50	1956 Feb 29	Nike Ajax	-	1249B-5725	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A26	2435537.08	1956 Mar 4 1358	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A27	2435537.09	1956 Mar 4 1406	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A28	2435537.12	1956 Mar 4 1448	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A29	2435537.12	1956 Mar 4 1459	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A30	2435537.15	1956 Mar 4 1543	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A31	2435537.16	1956 Mar 4 1553	Nike Ajax	-	-	0.000	RCAR	AS	-	-	Test	FC	-	-
1956-A162	2435595.50	1956 May 2	Nike Ajax	-	1249B-5765	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A52	2435602.50	1956 May 9	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A53	2435608.50	1956 May 15	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A54	2435608.50	1956 May 15	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A60	2435631.50	1956 Jun 7	Nike Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-S37	2435631.50	1956 Jun 7	Nike Nike T40 T55	-	-	0.000	PARD	SS	-	PARD/	Reentry Test	RP-1028	-	-
1956-A163	2435638.50	1956 Jun 14	Nike Ajax	-	1249B-8951	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A164	2435646.50	1956 Jun 22	Nike Ajax	-	1249B-7946	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S51	2435661.25	1956 Jul 6 1800	Nike Cajun	-	N-C 1	0.000	UMI/AFCRL	SS	-	UMI/Jones.L	Aeron	Newell/UM-FS	RP-1028	-
1956-S61	2435678.50	1956 Jul 24	Nike Cajun	-	N-C 4 (HUGO-1)	0.000	UMI/AFCRL	SS	-	NMSU/Moore	Aeron	Newell	-	-
1956-A165	2435679.50	1956 Jul 25	Nike Ajax	-	1249B-5220	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A166	2435679.50	1956 Jul 25	Nike Ajax	-	1249B-5238	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A167	2435686.50	1956 Aug 1	Nike Ajax	-	1249B-5771	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A168	2435693.50	1956 Aug 8	Nike Ajax	-	1249B-3013	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S72	2435694.46	1956 Aug 8 2300	Nike Cajun	-	N-C 2 (770A/5656)	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	Newell	-	-
1956-A169	2435694.50	1956 Aug 9	Nike Ajax	-	1249B-8600	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A170	2435694.50	1956 Aug 9	Nike Ajax	-	1249B-7531	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S74	2435695.45	1956 Aug 9 2247	Nike Cajun	-	N-C 3 (5651/BRL)	0.000	BRL/UMI	SS	-	BRL/	Aeron	Newell	-	-
1956-A171	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-5778	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A172	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-6949	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A173	2435701.50	1956 Aug 16	Nike Ajax	-	1249B-6978	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A174	2435709.50	1956 Aug 24	Nike Ajax	-	1249B-5254	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A175	2435721.50	1956 Sep 5	Nike Ajax	-	1249B-7966	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A84	2435726.50	1956 Sep 10	Nike T40 T55	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A176	2435728.50	1956 Sep 12	Nike Ajax	-	1249B-7918	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A177	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-5773	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A178	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-7787	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A179	2435742.50	1956 Sep 26	Nike Ajax	-	1249B-7025	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A96	2435748.50	1956 Oct 2	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A180	2435749.50	1956 Oct 3	Nike Ajax	-	1249B-9481	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A98	2435749.50	1956 Oct 3	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A100	2435751.50	1956 Oct 5	Nike Recruit	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A101	2435755.50	1956 Oct 9	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1956-A128	2435756.50	1956 Oct 10	Nike Ajax	-	-	0.000	ORD	AS	-	-	Test	Nike-Hist	-	-
1956-A181	2435757.50	1956 Oct 11	Nike Ajax	-	1249B-7509	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S87	2435767.42	1956 Oct 20 2201	Nike Cajun	-	N-C 13	0.000	BRL/UMI	SS	-	UMI/Spencer	Aeron	FC	Newell	-
1956-S90	2435774.39	1956 Oct 27 2124	Nike Cajun	-	N-C 8	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	Newell	-	-
1956-A182	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-9946	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A183	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-7930	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A184	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-7460	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A185	2435777.50	1956 Oct 31	Nike Ajax	-	1249B-8601	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S94	2435780.28	1956 Nov 2 1840	Nike Cajun	-	N-C 9	0.000	UMI/AFCRL	SS	-	UMI/Jones.L	Aeron	Newell	-	-
1956-S95	2435782.29	1956 Nov 4 1854	Nike Cajun	-	N-C 10	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	Newell	-	-
1956-A186	2435784.50	1956 Nov 7	Nike Ajax	-	1249B-7467	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-S97	2435785.13	1956 Nov 7 1502	Nike Cajun	-	N-C 11	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	Newell	-	-
1956-S98	2435788.14	1956 Nov 10 1517	Nike Cajun	-	N-C 12	0.000	UMI/AFCRL	SS	-	UMI/Jones.L	Aeron	Newell	-	-
1956-A187	2435798.50	1956 Nov 21	Nike Ajax	-	1249B-7534	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A188	2435806.50	1956 Nov 29	Nike Ajax	-	1249B-6947	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A118	2435814.50	1956 Dec 7	Nike Cajun	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1956-A189	2435819.50	1956 Dec 12	Nike Ajax	-	1249B-9201	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A190	2435821.50	1956 Dec 14	Nike Ajax	-	1249B-50003	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A191	2435821.50	1956 Dec 14	Nike Ajax	-	1249B-50004	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1956-A192	2435826.50	1956 Dec 19	Nike Ajax	-	1249B-5170	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A146	2435854.50	1957 Jan 16	Nike Ajax	-	1249B-7970	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A147	2435875.50	1957 Feb 6	Nike Ajax	-	1249B-5775	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A148	2435889.50	1957 Feb 20	Nike Ajax	-	1249B-7035	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A145	2435910.50	1957 Mar 13	Nike Ajax	-	-	0.000	ORD	AS	-	-	Test	Nike-Hist	-	-
1957-A149	2435980.50	1957 May 22	Nike Ajax	-	1249B-50041	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A150	2435980.50	1957 May 22	Nike Ajax	-	1249B-50042	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A35	2435960.50	1957 May 2	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1957-A52	2436008.50	1957 Jun 19	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1957-S52	2436021.29	1957 Jul 1 1900	Nike Deacon	-	NN7.37F	0.000	NRL	SS	-	NRL/	Solar UV/X	IGY	Newell	-
1957-S53	2436023.19	1957 Jul 3 1629	Nike Deacon	-	NN7.38F	0.000	NRL	SS	-	NRL/	Solar UV/X	IGY	-	-
1957-A63	2436035.39	1957 Jul 15 2123	Nike Deacon	-	NN7.39F	0.000	NRL	SF	U	NRL/	Solar UV/X	IGY	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S65	2436043.48	1957 Jul 23 2331:52	Nike Deacon	-	NN7.40F	0.000	NRL	SS	-	NRL/	Solar UV/X	IGY	-	-
1957-A67	2436050.26	1957 Jul 30 1810:02	Nike Cajun	-	AM6.32	0.000	UMI/BRL	SF	U	UMI/	Aeron	FC	Newell	-
1957-A72	2436056.30	1957 Aug 5 1910	Nike Deacon	-	NN7.41F	0.000	NRL	SF	U	NRL/	Solar UV/X	IGY	-	-
1957-A151	2436071.50	1957 Aug 21	Nike Ajax	-	1249B-7956	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A79	2436063.50	1957 Aug 13	Nike Recruit	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1957-S91	2436071.20	1957 Aug 20 1650:04	Nike Deacon	-	NN7.42F/DAN-20	0.000	NRL	SS	-	NRL/	Solar UV/X	IGY	Newell	-
1957-S93	2436074.41	1957 Aug 23 2154:05	Nike Cajun	-	RP6.X1 igniter test	0.000	UMI/BRL	SS	-	BRL/	Test	FC	WDCRF	-
1957-A84	2436074.75	1957 Aug 24 0600	Nike Cajun	-	SS6.38	0.000	UMI/BRL	SF	U	SCEL/Stroud	Aeron	FC	WDCRF	-
1957-A86	2436078.16	1957 Aug 27 1554	Nike Deacon	-	NN7.43F	0.000	NRL	SF	S1	NRL/	Solar UV/X	Newell	-	-
1957-S97	2436078.68	1957 Aug 28 0415:03	Nike Cajun	-	II6.22F	0.000	UMI	SS	-	SUI/	Auroral	IGY	WDCRF	-
1957-S98	2436079.35	1957 Aug 28 2021:40	Nike Deacon	-	NN7.44F	0.000	NRL	SS	-	NRL/	Solar UV/X	Newell	-	-
1957-S100	2436080.38	1957 Aug 29 2112:25	Nike Deacon	-	NN7.45F/DAN-23	0.000	NRL	SS	-	NRL/	Solar UV/X	Newell	-	-
1957-S102	2436081.71	1957 Aug 31 0457	Nike Cajun	-	II6.23F	0.000	UMI/AFCRL	SS	-	SUI/	Auroral	WDCRF	-	-
1957-A152	2436092.50	1957 Sep 11	Nike Ajax	-	1249B-5685	0.000	ARAA	AS	-	-	Test	Nike-History	-	-
1957-A96	2436094.14	1957 Sep 12 1519:30	Nike Deacon	-	NN7.46F	0.000	NRL	SF	U	NRL/	Solar UV/X	Newell	-	-
1957-A97	2436097.36	1957 Sep 15 2043	Nike Deacon	-	NN7.47F	0.000	NRL	SF	U	NRL/	Solar UV/X	Newell	-	-
1957-A100	2436100.24	1957 Sep 18 1742	Nike Deacon	-	NN7.48F	0.000	NRL	SF	S1	NRL/	Solar UV/Solar X	WDCRF	-	-
1957-M13	2436100.25	1957 Sep 18 1754	Nike Deacon	-	NN7.49F	0.000	NRL	SS	-	NRL/	Solar UV/Solar X	WDCRF	-	-
1957-A109	2436108.33	1957 Sep 26 2000	Nike Asp	-	NN8.50F	0.000	NRL	SF	U	NRL/	Test	WDCRF	Newell	-
1957-A118	2436121.50	1957 Oct 10	Nike Recruit	-	-	0.000	PARD	AS	-	-	Reentry Test	RP-1028	-	-
1957-S174	2436183.23	1957 Dec 10 1735	Nike Cajun	-	OB6.02F	0.000	UMI/BRL	SS	-	BRL/	Ionos/Fields	WDCRF	-	-
1957-S175	2436183.26	1957 Dec 10 1812	Nike Asp	-	NN8.51F	0.000	NRL	SS	-	NRL/	Test	WDCRF	-	-
1957-A137	2436183.40	1957 Dec 10 2136	Nike Cajun	-	SS6.39	0.000	UMI/BRL	SF	U	SCEL/Stroud	Aeron	FC	WDCRF	-
1957-A138	2436185.50	1957 Dec 13	Nike T40 T55	-	-	0.000	PARD	AS	-	-	Test	RP-1028	TN-D-1256	-
1957-A141	2436187.53	1957 Dec 15 0038	Nike Cajun	-	AM6.34	0.000	UMI/BRL	SF	U	UMI/AFCRL/	Aeron	FC	WDCRF	[Or Dec 16]
1957-A144	2436195.50	1957 Dec 23	Nike Cajun	-	HUGO 2	0.000	PARD	SF	U	NMSU/Moore	Aeron	RP-1028	-	-
1958-S06	2436211.50	1958 Jan 8	Nike Asp	-	II8.35	0.000	UMI/AFCRL	SS	-	SUI/	Test	JCM	-	-
1958-A01	2436213.15	1958 Jan 9 1535	Nike Asp	-	II8.10	0.000	UMI/AFCRL	SF	S1	SUI/	Test/Solar UV/Solar	WDCRF	-	-
1958-S11	2436229.30	1958 Jan 25 1911:05	Nike Cajun	-	AM6.02	0.000	UMI/AFCRL	SS	-	UMI/Jones	Aeron	WDCRF	-	-
1958-S14	2436231.30	1958 Jan 27 1917:45	Nike Cajun	-	AM6.36	0.000	UMI/AFCRL	SS	-	UMI/Jones	Aeron	JGR69,1367	-	-
1958-S16	2436233.30	1958 Jan 29 1906:17	Nike Cajun	-	AM6.03	0.000	UMI/AFCRL	SS	-	UMI/Jones	Aeron	WDCRF	-	-
1958-S23	2436247.78	1958 Feb 13 0637:04	Nike Cajun	-	II6.24F	0.000	UMI/AFCRL	SS	-	SUI/McIlwain	Auroral	WDCRF	-	-
1958-S24	2436250.76	1958 Feb 16 0616:38	Nike Cajun	-	II6.25F	0.000	UMI/AFCRL	SS	-	SUI/McIlwain	Auroral	WDCRF	-	-
1958-S32	2436256.73	1958 Feb 22 0534:31	Nike Cajun	-	II6.26F	0.000	UMI/AFCRL	SS	-	SUI/McIlwain	Auroral	WDCRF	SR1,715	-
1958-S34	2436258.82	1958 Feb 24 0734:42	Nike Cajun	-	AM6.37	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	WDCRF	-	-
1958-S36	2436259.74	1958 Feb 25 0548:32	Nike Cajun	-	II6.27F	0.000	UMI/AFCRL	SS	-	SUI/McIlwain	Auroral	FC	SR1,715	-
1958-A11	2436261.43	1958 Feb 26 2217:40	Nike Cajun	-	RP6.X2	0.000	UMI/BRL	SF	U	BRL/	Test	FC	WDCRF	-
1958-S39	2436266.75	1958 Mar 4 0601:36	Nike Cajun	-	AM6.04	0.000	UMI/AFCRL	SS	-	UMI/Jones	Aeron	WDCRF	-	-
1958-S40	2436267.31	1958 Mar 4 1930:09	Nike Cajun	-	AM6.05	0.000	UMI/AFCRL	SS	-	UMI/Jones	Aeron	WDCRF	-	-
1958-S42	2436280.50	1958 Mar 18	Nike Apache	-	AA5.025	0.000	AFCRL	SS	-	AFCRL/	Solar UV	WDCRF	-	-
1958-A22	2436286.50	1958 Mar 24	Nike	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-S47	2436287.27	1958 Mar 24 1830:25	Nike Cajun	-	OB6.08	0.000	BRL	SS	-	BRL/Berning	Aeron/Imaging	WDCRF	-	-
1958-S48	2436287.42	1958 Mar 24 2200	Nike Cajun	-	AM6.38	0.000	UMI/AFCRL	SS	-	UMI/Spencer	Aeron	WDCRF	-	-
1958-S53	2436300.50	1958 Apr 7	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon test	JBIS34-12	RP-1028	-
1958-S386	2436318.20	1958 Apr 24 1644	Nike Cajun	-	NC AF-1	0.000	UMI/AFCRL	SS	-	SAO/	Meteorites	SCA7	-	-
1958-S57	2436317.50	1958 Apr 24	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon test	JBIS34-12	-	-
1958-M03	2436318.50	1958 Apr 25	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon test	RP-1028	-	-
1958-S60	2436325.02	1958 May 1 1233	Nike Cajun	-	NC AF-2	0.000	AFCRL	SS	-	AFCRL/?	Meteorites	WDCRF	-	-
1958-S65	2436343.91	1958 May 20 0943:35	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-S67	2436344.98	1958 May 21 1131:59	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-S69	2436345.54	1958 May 22 0057	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon Test	RP-1028	JBIS34-12	-
1958-S68	2436345.98	1958 May 22 1129:59	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-S71	2436348.50	1958 May 25	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon Test	JBIS34-12	-	-
1958-S385	2436353.60	1958 May 30 0231	Nike Cajun	-	SS6.49	0.000	SCEL	SS	-	SCEL/	Aeron	IGY	-	-
1958-A50	2436359.50	1958 Jun 5	Nike Ajax	-	-	0.000	PARD	AS	-	-	Test	RP-1028	-	-
1958-S94	2436392.29	1958 Jul 7 1850:28	Nike Cajun	-	OB6.09	0.000	UMI/BRL	SS	-	BRL/Berning	Aeron/Imaging	WDCRF	-	-
1958-S95	2436392.47	1958 Jul 7 2318	Nike Asp	-	NN8.52F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	-
1958-S96	2436393.47	1958 Jul 8 2315	Nike Asp	-	NN8.53F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	-
1958-S99	2436397.35	1958 Jul 12 2030:00	Nike Cajun	-	OB6.10	0.000	UMI/BRL	SS	-	BRL/Berning	Aeron/Imaging	FC	WDCRF	-
1958-S101	2436400.34	1958 Jul 15 2007:31	Nike Cajun	-	AM6.39	0.000	UMI/AFCRL	SS	-	UMI/	Aeron	WDCRF	-	-
1958-S102	2436401.44	1958 Jul 16 2240:28	Nike Cajun	-	OB6.04	0.000	UMI/AFCRL	SS	-	BRL/Berning	Fields	FC	WDCRF	-
1958-S103	2436401.81	1958 Jul 17 0721:41	Nike Cajun	-	AA6.15	0.000	AFCRL	SS	-	AFCRL/	Aeron	FC	WDCRF	-
1958-S105	2436402.24	1958 Jul 17 1748	Nike Asp	-	NN8.54F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	Or PM?
1958-S109	2436409.71	1958 Jul 25 0501	Nike Asp	-	NN8.55F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	Or PM?
1958-S110	2436413.71	1958 Jul 29 0503	Nike Asp	-	NN8.56F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	Or PM?
1958-S388	2436416.50	1958 Aug 1	Nike Asp	-	-	0.000	COOP	SS	-	COOP/	Atm	HT7.1	-	-
1958-S389	2436416.50	1958 Aug 1	Nike Asp	-	-	0.000	COOP	SS	-	COOP/	Atm	HT7.1	-	-
1958-S390	2436416.50	1958 Aug 1	Nike Asp	-	-	0.000	COOP	SS	-	COOP/	Atm	HT7.1	-	-
1958-S391	2436416.50	1958 Aug 1	Nike Asp	-	-	0.000	COOP	SS	-	COOP/	Atm	HT7.1	-	-
1958-S161	2436430.06	1958 Aug 14 1328	Nike Cajun	-	OB6.01F	0.000	SCEL	SS	-	SCEL/	Test	WDCRF	-	-
1958-A111	2436454.50	1958 Sep 8	Nike	-	-	0.000	PARD	AF	U	-	Test	RP-1028	-	-
1958-S196	2436458.49	1958 Sep 11 2352	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon Test	Ulrich	JBIS34-12	-
1958-S198	2436462.19	1958 Sep 15 1632:00	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-S199	2436463.19	1958 Sep 16 1631:00	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-A119	2436464.50	1958 Sep 18	Nike Cajun	-	-	0.000	PARD/USN	AS	-	-	Reentry Test	RP-1028	-	-
1958-S201	2436465.20	1958 Sep 18 1649:58	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Malmo	Aeron	PlanSpaceSci1,227	WDCRF	-
1958-S208	2436475.32	1958 Sep 28 1942	Nike Asp	-	NN8.57F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	-
1958-M15	2436478.32	1958 Oct 1 1942	Nike Asp	-	NN8.58F	0.000	NRL	SS	-	NRL/	Test/Solar UV/Solar	WDCRF	-	-
1958-S215	2436483.50	1958 Oct 7	Nike Cajun	-	-	0.000	LARC	SS	-	LARC/	Balloon Test	JBIS34-12	RP-1028	-
1958-S220	2436489.31	1958 Oct 12 1932:06	Nike Asp	-	NN8.59F	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar EUV/Solar X	WDCRF	-	Hour from eclipse time
1958-S221	2436489.32	1958 Oct 12 1942:03	Nike Asp	-	NN8.60F	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar EUV/Solar X	WDCRF	-	-
1958-S222	2436489.32	1958 Oct 12 1943:18	Nike Asp	-	NN8.61F	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar EUV/Solar X	WDCRF	-	-
1958-S223	2436489.33	1958 Oct 12 1952:49	Nike Asp	-	NN8.62F	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar EUV/Solar X	WDCRF	-	-
1958-S224	2436489.34	1958 Oct 12 2010:09	Nike Asp	-	NN8.63F	0.000	NRL	SS	-	NRL/Chubb,Friedman	Solar EUV/Solar X	WDCRF	-	-
1958-S225	2436490.32	1958 Oct 13 1939:56	Nike Asp	-	NN8.64F	0.000	NRL	SS	-	NRL/	Test	WDCRF	-	-
1958-S226	2436491.00	1958 Oct 14 1200:42	Nike Cajun	-	AA6.204	0.000	AFCRL	SS	-	AFCRL/OKSU/	Meteorites	FC	WDCRF	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-S229	2436491.67	1958 Oct 15 0400:01	Nike Cajun	-	AA6.203	0.000	AFCRL	SS	-	AFCRL/OKSU/	Meteorites	FC	WDCRF	[Or Oct 16]
1958-S232	2436494.64	1958 Oct 18 0325:06	Nike Cajun	-	AA6.205	0.000	AFCRL	SS	-	AFCRL/OKSU/	Meteorites	FC	WDCRF	-
1958-S233	2436497.42	1958 Oct 20 2201:01	Nike Cajun	-	ABM6.207	0.000	UMI	SS	-	UMI/Boggess	Aeron/Ionos	FC	WDCRF	-
1958-S234	2436498.66	1958 Oct 22 0345:00	Nike Cajun	-	AA6.206	0.000	AFCRL	SS	-	AFCRL/OKSU/	Meteorites	FC	WDCRF	-
1958-S235	2436499.10	1958 Oct 22 1422	Nike Asp	-	II8.11	0.000	SUI	SF	S1	SUI/	Test/Meteorites	WDCRF	-	-
1958-S243	2436508.36	1958 Oct 31 2036:19	Nike Cajun	-	OB6.11	0.000	BRL	SS	-	BRL/Berning	Meteo/Imaging	IGY	WDCRF	-
1958-S249	2436512.20	1958 Nov 4 1650:24	Nike Cajun	-	OB6.12	0.000	BRL	SS	-	BRL/Berning	Meteo/Imaging	FC	WDCRF	-
1958-S254	2436515.58	1958 Nov 8 0153:19	Nike Cajun	-	CC6.01	0.000	CARDE	SS	-	CARDE/	Aeron	FC	WDCRF	-
1958-M18	2436519.99	1958 Nov 12 1140	Nike Cajun	-	SS6.52	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S255	2436520.87	1958 Nov 13 0859:05	Nike Cajun	-	CC6.02	0.000	CARDE	SS	-	CARDE/	Aeron	WDCRF	-	-
1958-S256	2436521.23	1958 Nov 13 1734:06	Nike Cajun	-	OB6.13	0.000	BRL	SS	-	BRL/Berning	Meteo/Imaging	FC	WDCRF	-
1958-M19	2436521.97	1958 Nov 14 1109:43	Nike Cajun	-	SS6.53	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S260	2436526.20	1958 Nov 18 1646:51	Nike Cajun	-	OB6.14	0.000	BRL	SS	-	BRL/Berning	Meteo/Imaging	FC	WDCRF	-
1958-M20	2436527.25	1958 Nov 19 1801:40	Nike Cajun	-	SS6.54	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S262	2436527.41	1958 Nov 19 2150:54	Nike Cajun	-	OB6.06	0.000	BRL	SS	-	BRL/Berning	Fields	FC	WDCRF	-
1958-M23	2436528.11	1958 Nov 20 1438:40	Nike Cajun	-	SS6.55	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S266	2436529.92	1958 Nov 22 0957:59	Nike Cajun	-	SS6.56	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S267	2436531.42	1958 Nov 23 2202	Nike Cajun	-	AA6.16	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL2	-	-
1958-A151	2436531.83	1958 Nov 24 0800	Nike Cajun	-	AA6.17	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL2	-	-
1958-M25	2436532.23	1958 Nov 24 1727:18	Nike Cajun	-	SS6.58	0.000	UMI/SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-S275	2436538.44	1958 Nov 30 2227:01	Nike Cajun	-	IGY OB6.15	0.000	BRL	SS	-	BRL/Conley	Fields	WDCRF	JGR65,1074	-
1958-S281	2436542.50	1958 Dec 5	Nike Cajun	-	HUGO 3	0.000	PARD	SS	-	NMSU/Moore	Aeron	RP-1028	-	-
1958-S282	2436542.50	1958 Dec 5	Nike Cajun	-	HUGO 4	0.000	PARD	SS	-	NMSU/Moore	Aeron	RP-1028	-	-
1959-A268	2436568.50	1959	Mach 5 TV	-	-	0.000	SAND	AS	-	SAND/	Test	SandNews590710	-	-
1959-S10	2436596.50	1959 Jan 28	Nike Cajun	-	-	0.000	LARCN	SS	-	LARC/	Payload Test	JBIS34-12	-	-
1959-A213	2436638.29	1959 Mar 10 1900	Nike	-	-	0.000	WADD	SS	-	WADD/	Parachute test	AD266714	-	-
1959-A56	2436658.50	1959 Apr	Nike Nike Cajun	-	F40	0.000	LARCN	AS	-	LARC/	Test	RP-1028	TN-D-2386	-
1959-S54	2436681.31	1959 Apr 22 1929	Nike Cajun	-	AA6.182C	0.000	AFCRL	SF	U	AFCRL/	Ionos	AFCRL2	-	-
1959-A214	2436682.23	1959 Apr 23 1728	Nike Nike	-	-	0.000	WADD	SS	-	WADD/	Parachute test	AD266714	-	-
1959-M15	2436709.54	1959 May 21 0100	Nike Cajun	-	II6.20F	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1959-M16	2436712.10	1959 May 23 1430	Nike Cajun	-	II6.21F	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1959-S76	2436715.70	1959 May 27 0451	Nike Cajun	-	AA6.161C	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	WDCRF	AFCRL2	-
1959-S77	2436716.33	1959 May 27 1955	Nike Cajun	-	AA6.162C	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	AFCRL2	-	-
1959-A101	2436737.50	1959 Jun 18	Nike Recruit	-	-	0.000	WI	AS	-	-	Test	RP-1028	-	-
1959-A215	2436738.50	1959 Jun 19	Nike Nike	-	-	0.000	WADD	SS	-	WADD/	Parachute test	AD266714	-	-
1959-M20	2436747.05	1959 Jun 27 1308	Nike Cajun	-	II6.31F	0.000	SUI	SS	-	SUI/	Fields	WDCRF	-	-
1959-S101	2436749.50	1959 Jun 30	Nike Cajun	-	ABME6.208	0.000	UMI	SS	-	UMI/	Ionos	WDCRF	-	-
1959-S102	2436750.50	1959 Jul 1	Nike Cajun	-	ABME6.209	0.000	UMI	SS	-	UMI/	Ionos	WDCRF	-	-
1959-A216	2436760.03	1959 Jul 10 1245	Nike Nike	-	-	0.000	WADD	SS	-	WADD/	Parachute test	AD266714	-	-
1959-S109	2436764.24	1959 Jul 14 1745	Nike Asp	-	NN8.65	0.000	NRL	SS	-	NRL/Kreplin,McNutt	Solar X	WDCRF	-	-
1959-A118	2436767.24	1959 Jul 17 1740	Nike Asp	-	NN8.66	0.000	NRL	SF	U	NRL/Chubb,Kreplin	Solar	WDCRF	-	-
1959-S125	2436774.19	1959 Jul 24 1634	Nike Asp	-	NN8.67	0.000	NRL	SS	-	NRL/McNutt	Solar	WDCRF	-	-
1959-A131	2436784.50	1959 Aug 4	Nike Recruit	-	-	0.000	WI	AS	-	-	Test	RP-1028	-	-
1959-S137	2436788.21	1959 Aug 7 1705	Nike Asp	-	NN8.68CF	0.000	NRL	SS	-	NRL/McNutt	Solar X	WDCRF	SR4,759	-
1959-S142	2436795.17	1959 Aug 14 1600	Nike Asp	-	NN8.69CF	0.000	NRL	SS	-	NRL/McNutt	Solar X	WDCRF	SR1,695	-
1959-S143	2436797.89	1959 Aug 17 0918	Nike Asp	-	NASA 03.13CA	0.000	GSFC	SS	-	GCA/Manring,Bedinger	Aeronomy	WDCRF	SR1,154	-
1959-A140	2436799.52	1959 Aug 19 0034	Nike Asp	-	NASA 03.14CA	0.000	GSFC	SF	U	GCA/Manring,Bedinger	Aeronomy	WDCRF	-	-
1959-S146	2436802.60	1959 Aug 22 0230	Nike Asp	-	NN8.70CF	0.000	NRL	SS	-	NRL/McNutt	Solar	WDCRF	-	-
1959-S148	2436805.45	1959 Aug 24 2247	Nike Asp	-	NN8.71CF	0.000	NRL	SS	-	NRL/McNutt	Solar	WDCRF	-	-
1959-S155	2436809.17	1959 Aug 28 1610	Nike Asp	-	NN8.72CF	0.000	NRL	SS	-	NRL/McNutt	Solar X	WDCRF	SR4,759	-
1959-S157	2436812.45	1959 Aug 31 2253	Nike Asp	-	NN8.73CF	0.000	NRL	SS	-	NRL/McNutt	Solar X/Solar	WDCRF	SR1,695	-
1959-S158	2436812.54	1959 Sep 1 0101	Nike Asp	-	NN8.74CF	0.000	NRL	SS	-	NRL/McNutt	Solar	WDCRF	-	-
1959-S159	2436813.29	1959 Sep 1 1900	Nike Asp	-	NN8.75CF	0.000	NRL	SS	-	NRL/Chubb,Kreplin	Ionos/Plasma/Solar	WDCRF	SR1,695	-
1959-A217	2436813.50	1959 Sep 2	Nike Nike	-	-	0.000	WADD	SS	-	WADD/	Parachute test	AD266714	-	-
1959-S160	2436813.50	1959 Sep 2 0003	Nike Asp	-	NN8.76CF	0.000	NRL	SS	-	NRL/Chubb,Kreplin	Solar	WDCRF	-	-
1959-S180	2436830.20	1959 Sep 18 1655	Nike Cajun	-	AA6.300C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-A161	2436833.33	1959 Sep 21 2000	Nike	-	Smoke 002	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-976	Alway	-
1959-S422	2436837.05	1959 Sep 25 1317	Nike Cajun	-	HUGO 6	0.000	PARD	SS	-	NMSU/Moore	Aeron	Ulrich/Wire	Powell	EDT
1959-S188	2436840.96	1959 Sep 29 1059	Nike Cajun	-	AA6.203C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S192	2436841.96	1959 Sep 30 1057	Nike Cajun	-	AA6.204C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S194	2436842.95	1959 Oct 1 1049	Nike Cajun	-	AA6.210C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S195	2436843.96	1959 Oct 2 1100	Nike Cajun	-	AA6.211C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S196	2436844.96	1959 Oct 3 1103	Nike Cajun	-	AA6.202C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S197	2436846.96	1959 Oct 5 1101	Nike Cajun	-	AA6.212C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S203	2436850.86	1959 Oct 9 0840	Nike Cajun	-	AA6.209C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S204	2436850.97	1959 Oct 9 1117	Nike Cajun	-	AA6.213C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S207	2436853.88	1959 Oct 12 0900	Nike Cajun	-	AA6.208C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S208	2436853.92	1959 Oct 12 1012	Nike Cajun	-	AA6.216C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	JCM	-	-
1959-S211	2436854.97	1959 Oct 13 1117	Nike Cajun	-	AA6.214C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S214	2436856.96	1959 Oct 15 1105	Nike Cajun	-	AA6.207C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-S215	2436857.97	1959 Oct 16 1117	Nike Cajun	-	AA6.215C	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1959-A180	2436868.21	1959 Oct 26 1700	Nike Cajun	-	AA6.188C	0.000	AFCRL	SF	S1	UUT/Haycock	Ionos	AFCRL2	-	-
1959-S241	2436891.31	1959 Nov 18 1930	Nike Asp	-	AA8.241C	0.000	AFCRL	SS	-	AFCRL/	Ionos	WDCRF	-	-
1959-S242	2436891.43	1959 Nov 18 2217	Nike Asp	-	NASA 03.15CA	0.000	GSFC	SS	-	GCA/Manring,Bedinger	Aeronomy	WDCRF	SR1,154	-
1959-S246	2436891.94	1959 Nov 19 1036	Nike Cajun	-	AA6.163C	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1959-S247	2436891.95	1959 Nov 19 1051	Nike Asp	-	NASA 03.16CA	0.000	GSFC	SS	-	GCA/Manring,Bedinger	Aeronomy	WDCRF	-	-
1959-S249	2436892.95	1959 Nov 20 1051	Nike Asp	-	NASA 03.17CA	0.000	GSFC	SS	-	GCA/Manring,Bedinger	Aeronomy	WDCRF	-	-
1959-S250	2436893.26	1959 Nov 20 1816	Nike Cajun	-	AA6.164C	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1959-A197	2436897.50	1959 Nov 25	Nike Cajun	-	-	0.000	LARCN?	AS	-	-	Test	RP-1028	-	-
1960-S03	2436933.50	1960?	Nike Nike Recruit	-	-	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2354	-	-
1960-S04	2436933.50	1960 Jan	Nike Cajun	-	-	0.000	WSMR	SS	-	WSMR/	Aeron?	WSMR	-	-
1960-S439	2436969.34	1960 Feb 4 2011	Nike Viper I	-	Sandia	0.000	SAND	SS	-	SAND/AEC/	Aeron/Tech	Ulrich/Wire	VAFB	-
1960-S37	2436981.54	1960 Feb 17 0100	Nike Cajun	-	AA6.103C	0.000	AFCRL	SS	-	AFCRL/Soberman	Meteorites	WDCRF	-	-
1960-S44	2436995.42	1960 Mar 1 2211	Nike Asp	-	NASA 03.01GS	0.000	GSFC	SS	-	GSFC/Hallam	Solar UV?	WDCRF	-	-
1960-S47	2436997.45	1960 Mar 3 2250	Nike Asp	-	NASA 03.02GS	0.000	GSFC	SS	-	GSFC/Hallam	Solar UV?	WDCRF	-	-
1960-A340	2437001.50	1960 Mar 8	Nike Ajax	-	660	0.000	WSMR	AS	-	-	Test	NH-Bell	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-A68	2437010.58	1960 Mar 17 0152	Nike Asp	-	NASA 03.10UI	0.000	GSFC	SF	U	UMI/	Ionos	FC	SP4401	-
1960-A93	2437032.39	1960 Apr 7 2125	Nike Cajun	-	Flight 7914	0.000	RRF	SS	-	UMI/Spencer	Test	FC	-	-
1960-S73	2437033.00	1960 Apr 8 1204	Nike Cajun	-	OB6.03	0.000	BRL	SS	-	BRL/	Aeron/Ionos	WDCRF	-	-
1960-A104	2437052.41	1960 Apr 27 2156	Nike Asp	-	NASA 03.03GS	0.000	GSFC	SF	U	GSFC/Hallam	Solar UV?	WDCRF	-	-
1960-S440	2437053.50	1960 Apr 29	Nike Viper I	-	Sandia	0.000	SAND	SS	-	SAND/AEC/	Aeron?	VAFB	-	-
1960-A343	2437075.50	1960 May 21	Nike Ajax	-	-	0.000	WSMR	MS	-	USA/	Test	NH-Bell	-	-
1960-A127	2437078.87	1960 May 24 0857	Nike Asp	-	NASA 03.23CA	0.000	GSFC	SF	U	GCA/Bedinger	Aeronomy	WDCRF	-	-
1960-S105	2437079.53	1960 May 25 0048	Nike Asp	-	NASA 03.24CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1960-S106	2437080.42	1960 May 25 2200	Nike Asp	-	NASA 03.04GS	0.000	GSFC	SS	-	GSFC/Hallam	Solar UV?	WDCRF	-	-
1960-S120	2437092.22	1960 Jun 6 1710	Nike Cajun	-	NASA 10.17GE	0.000	GSFC	SS	-	GSFC/Fichtel,Davis	Magnetospheric	WDCRF	-	-
1960-A153	2437101.73	1960 Jun 16 0529	Nike Cajun	-	NASA 10.03GA	0.000	GSFC	SF	U	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1960-S147	2437112.50	1960 Jun 27	Nike Asp	-	-	0.000	AFCRL?	SS	-	AFCRL/Sagalyn,Walker?	Ionos	WDCRF	-	-
1960-S441	2437112.50	1960 Jun 27	Nike Viper I	-	Sandia	0.000	SAND	SS	-	SAND/AEC/	Aeron?	VAFB	-	-
1960-S150	2437113.30	1960 Jun 27 1910	Nike Asp	-	AA8.243	0.000	AFCRL	SF	U	AFCRL/Sagalyn	Ionos	WDCRF	SR4,371	-
1960-S148	2437113.72	1960 Jun 28 0510	Nike Asp	-	AA8.242	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	WDCRF	SR4,371	-
1960-S168	2437124.67	1960 Jul 9 0400	Nike Cajun	-	NASA 10.04GA	0.000	GSFC	SS	-	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1960-S172	2437128.52	1960 Jul 13 0023	Nike Cajun	-	AA6.403	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-A169	2437129.53	1960 Jul 14 0044	Nike Cajun	-	NASA 10.01GA	0.000	GSFC	SF	U	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1960-S175	2437129.92	1960 Jul 14 1005	Nike Cajun	-	AA6.409	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-A368	2437129.50	1960 Jul 14	Nike Nike	-	-	0.000	WADD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1960-S178	2437130.92	1960 Jul 15 1002	Nike Cajun	-	AA6.401	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S180	2437133.92	1960 Jul 18 1001	Nike Cajun	-	AA6.405	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S182	2437135.50	1960 Jul 20	Nike Cajun	-	AEC probe	0.000	AEC	SU	-	AEC/	Aeron?	VAFB	-	-
1960-S186	2437136.56	1960 Jul 21 0132	Nike Cajun	-	AA6.413	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S187	2437136.92	1960 Jul 21 1002	Nike Cajun	-	AA6.406	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S188	2437137.70	1960 Jul 22 0453	Nike Cajun	-	NASA 10.18GE	0.000	GSFC	SS	-	GSFC/Fichtel	Auroral	WDCRF	-	-
1960-S189	2437137.92	1960 Jul 22 1011	Nike Cajun	-	AA6.402	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S193	2437140.85	1960 Jul 25 0830	Nike Cajun	-	AA6.420	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S196	2437141.93	1960 Jul 26 1017	Nike Cajun	-	AA6.421	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S198	2437142.93	1960 Jul 27 1019	Nike Cajun	-	AA6.425	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S201	2437143.85	1960 Jul 28 0830:00	Nike Cajun	-	AA6.419	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	SR2,1143	-
1960-S204	2437144.85	1960 Jul 29 0830	Nike Cajun	-	AA6.422	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S205	2437144.93	1960 Jul 29 1014	Nike Cajun	-	AA6.407	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S214	2437147.85	1960 Aug 1 0830	Nike Cajun	-	AA6.408	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S215	2437147.93	1960 Aug 1 1023	Nike Cajun	-	AA6.410	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S222	2437152.88	1960 Aug 6 0900	Nike Cajun	-	AA6.411	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S224	2437154.93	1960 Aug 8 1015	Nike Cajun	-	AA6.412	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S225	2437155.94	1960 Aug 9 1037	Nike Cajun	-	AA6.414	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-A194	2437156.34	1960 Aug 9 2010	Nike Asp	-	NASA 03.28GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1960-S231	2437156.94	1960 Aug 10 1035	Nike Cajun	-	AA6.418	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S239	2437162.57	1960 Aug 16 0142	Nike Asp	-	AA8.404	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S240	2437162.95	1960 Aug 16 1041	Nike Cajun	-	AA6.426	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S241	2437163.95	1960 Aug 17 1042	Nike Cajun	-	AA6.427	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S243	2437164.57	1960 Aug 18 0135	Nike Asp	-	AA8.415	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S244	2437164.61	1960 Aug 18 0242	Nike Cajun	-	AA6.428	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S245	2437164.93	1960 Aug 18 1015	Nike Asp	-	AA8.416	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S246	2437165.94	1960 Aug 19 1040	Nike Cajun	-	AA6.429	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-S247	2437166.33	1960 Aug 19 1956	Nike Cajun	-	AA6.430	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	SR2,1143	-
1960-A319	2437169.25	1960 Aug 22 1806	Nike Nike	-	GAC-1	0.000	AFCRL	AS	-	WADD/GOYR/	Parachute test	AD272754	-	-
1960-A206	2437169.24	1960 Aug 22 1740:57	Nike Asp	-	NASA 03.12CI	0.000	GSFC	SF	U	GCA/Smith.L	Ionos	GCA-63-23N	-	-
1960-S251	2437171.54	1960 Aug 25 0104	Nike Asp	-	AA8.244	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1960-S253	2437172.54	1960 Aug 26 0103	Nike Asp	-	AA8.417	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Aeronomy	WDCRF	-	-
1960-S257	2437176.50	1960 Aug 30	Nike Asp	-	-	0.000	AFCRL	SF	U	AFCRL/Hinteregger	Ionos	WDCRF	-	-
1960-S264	2437181.09	1960 Sep 3 1408	Nike Cajun	-	NASA 10.19GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	TN-D-1061	-
1960-S265	2437181.23	1960 Sep 3 1729	Nike Cajun	-	NASA 10.20GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	TN-D-1061	-
1960-A217	2437186.27	1960 Sep 8 1830	Nike	-	Smoke 005	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1960-A222	2437197.51	1960 Sep 20 0016	Nike Cajun	-	AA6.166	0.000	AFCRL	SF	U	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1960-A223	2437198.35	1960 Sep 20 2018	Nike Cajun	-	NASA 10.05GA	0.000	GSFC	SS	-	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1960-A225	2437199.47	1960 Sep 21 2320	Nike Cajun	-	OB6.05	0.000	AFCRL	SF	U	BRL/Leeder	Aeron	WDCRF	-	-
1960-A228	2437201.17	1960 Sep 23 1610	Nike	-	Smoke 006	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1960-S288	2437205.11	1960 Sep 27 1444	Nike Cajun	-	NASA 10.21GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S290	2437205.42	1960 Sep 27 2210	Nike Asp	-	AA8.350	0.000	AFCRL	SS	-	ASE/AFCRL/Giacconi	XR Astron	JCM	AFCRL	-
1960-S294	2437206.45	1960 Sep 28 2245	Nike Cajun	-	OB6.07	0.000	BRL	SS	-	BRL/Leeder	Aeron	WDCRF	-	-
1960-A369	2437205.50	1960 Sep 28	Nike Cree	-	-	0.000	WADD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1960-M30	2437207.50	1960 Sep 30	Nike Viper I	-	-	0.000	AEC	SS	-	UMI/	Aeron?	JCM	-	-
1960-S324	2437225.38	1960 Oct 17 2104	Nike Cajun	-	AA6.340	0.000	AFCRL	SS	-	UMI/AFCRL/Faucher	Aeron	WDCRF	-	-
1960-S343	2437241.43	1960 Nov 2 2225	Nike Cajun	-	NASA 10.09UA	0.000	GSFC	SS	-	UMI/Dubin	Aeronomy	WDCRF	-	-
1960-S344	2437242.39	1960 Nov 3 2119	Nike Asp	-	NASA 03.29GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1960-S348	2437243.37	1960 Nov 4 2052	Nike Cajun	-	AA6.800	0.000	AFCRL	SS	-	AFCRL/Ellis	Test	WDCRF	-	-
1960-S356	2437249.97	1960 Nov 11 1122	Nike Cajun	-	NASA 10.22GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S357	2437250.01	1960 Nov 11 1211	Nike Cajun	-	NASA 10.23GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S359	2437251.28	1960 Nov 12 1840	Nike Cajun	-	NASA 10.24GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	TN-D-1764	-	-
1960-S360	2437251.48	1960 Nov 12 2332	Nike Cajun	-	NASA 10.15GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S361	2437252.17	1960 Nov 13 1603	Nike Cajun	-	NASA 10.16GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	TN-D-1764	-	-
1960-S365	2437255.23	1960 Nov 16 1737	Nike Cajun	-	NASA 10.10UA	0.000	GSFC	SS	-	UMI/Dubin	Aeronomy	WDCRF	-	-
1960-S367	2437255.33	1960 Nov 16 1951	Nike Cajun	-	NASA 10.13GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S369	2437255.75	1960 Nov 17 0600	Nike Cajun	-	NASA 10.14GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S370	2437255.92	1960 Nov 17 1006	Nike Cajun	?	-	0.000	WSMR?	SS	-	WSMR/?	Aeron	WDCRF	-	-
1960-S373	2437256.65	1960 Nov 18 0339	Nike Cajun	-	NASA 10.26GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	WDCRF	-	-
1960-S374	2437257.49	1960 Nov 18 2338:37	Nike Cajun	-	NASA 10.27GE	0.000	GSFC	SS	-	GSFC/Fichtel	Magnetospheric	TM-X-55429	WDCRF	RP-101:2139Z
1960-A320	2437260.21	1960 Nov 21 1700	Nike Nike	-	GAC-2	0.000	WADD	AS	-	WADD/GOYR/	Parachute test	AD272754	-	-
1960-A370	2437259.50	1960 Nov 21	Nike Nike	-	-	0.000	WADD	AS	-	WADD/GOYR/	Parachute test	Ulrich	-	-
1960-S375	2437259.50	1960 Nov 21	Nike Cajun	-	-	0.000	AEC	SU	-	AEC/	Aeron?	VAFB	-	-
1960-S376	2437260.50	1960 Nov 22	Nike Cajun	-	-	0.000	AEC	SU	-	AEC/	Aeron?	VAFB	-	-
1960-S384	2437268.50	1960 Dec?	Nike Nike Recruit	-	-	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2383	-	-
1960-S396	2437277.20	1960 Dec 8 1652:09	Nike Cajun	-	NASA 10.25CI	0.000	GSFC	SS	-	GCA/Bordeau	Ionos	GCA-63-23N	WDCRF	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S397	2437277.97	1960 Dec 9 1120	Nike Cajun	-	NASA 10.12CA	0.000	GSFC	SS	-	GCA/Dubin	Aeronomy	WDCRF	NASA-PR60-316	-
1960-A296	2437278.43	1960 Dec 9 2215	Nike Cajun	-	NASA 10.11CA	0.000	GSFC	SF	U	GCA/Dubin	Aeronomy	WDCRF	-	-
1960-S407	2437283.20	1960 Dec 14 1652	Nike Cajun	-	NASA 10.06GA	0.000	GSFC	SS	-	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1961-M86	2437303.25	1961 Jan 3 1800	Nike Cree	-	-	0.000	WADD	SS	-	WADD/	Parachute test	Ulrich/Wire	-	Or Jan 4?
1961-S15	2437312.20	1961 Jan 12 1654	Nike Cajun	-	ISRC-RS-01	0.000	CRA	SS	-	ROSAP/Broglio	Aeronomy Na	SR2-1125	SR2-1125	-
1961-S21	2437317.39	1961 Jan 17 2125	Nike Asp	-	NASA 03.36GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1961-A274	2437332.50	1961 Feb 2	Nike Cree	-	-	0.000	WADD	SS	-	WADD/	Parachute test	Ulrich/Wire	-	Or Jan 3?
1961-S46	2437345.49	1961 Feb 14 2350	Nike Cajun	-	NASA 10.07GA	0.000	GSFC	SS	-	GSFC/Nordberg,Nisbet	Aeronomy	WDCRF	-	-
1961-A48	2437346.25	1961 Feb 15 1800	Nike	-	Smoke 007	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S50	2437347.60	1961 Feb 17 0226	Nike Cajun	-	NASA 10.08CA	0.000	GSFC	SS	-	GSFC/Nordberg	Aeronomy	WDCRF	-	-
1961-S51	2437347.80	1961 Feb 17 0717	Nike Apache	-	AA5.391	0.000	AFCRL	SS	-	AFCRL/Swenson?	Test	WDCRF	-	-
1961-S59	2437354.51	1961 Feb 24 0019	Nike Cajun	-	AA6.170	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	JCM	-	-
1961-S454	2437358.50	1961 Mar	Nike Apache	-	-	0.000	MICOM?	SS	-	NMSU/Moore	Target	PSLHist	-	-
1961-S62	2437360.15	1961 Mar 1 1542	Nike Asp	-	AA8.820	0.000	AFCRL	SS	-	AFCRL/Etkins	Solar EUV	WDCRF	-	-
1961-S68	2437361.65	1961 Mar 3 0339	Nike Cajun	-	AA6.189	0.000	AFCRL	SF	U	AFCRL/Ulwick,Hinteregger	Ionos	AFCRL2	-	-
1961-S81	2437373.41	1961 Mar 14 2152	Nike Cajun	-	AA6.801	0.000	AFCRL	SS	-	AFCRL/Ellis	Ionos	WDCRF	-	-
1961-S83	2437374.24	1961 Mar 15 1747	Nike Cajun	-	NASA 10.49GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1961-S88	2437383.30	1961 Mar 24 1917	Nike Cajun	-	AA6.802	0.000	AFCRL	SS	-	AFCRL/Ellis	Ionos	WDCRF	-	-
1961-S104	2437395.04	1961 Apr 5 1257	Nike Cajun	-	NASA 10.33GA	0.000	GSFC	SS	-	GSFC/Nordberg	Aeronomy	WDC-1972	-	-
1961-A99	2437396.32	1961 Apr 6 1935	Nike	-	Smoke 009	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-A100	2437396.50	1961 Apr 7	Nike Recruit	-	-	0.000	PARD	AS	-	LARC/	Reentry Test	RP-1028	-	-
1961-A103	2437404.15	1961 Apr 14 1530	Nike	-	Smoke 010	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-A104	2437404.32	1961 Apr 14 1935	Nike	-	Smoke 012	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S115	2437408.90	1961 Apr 19 0936	Nike Asp	-	NASA 03.05CA	0.000	GSFC	SS	-	GCA/Dubin,Manring	Aeronomy	WDCRF	-	-
1961-S116	2437409.28	1961 Apr 19 1837	Nike Asp	-	ISRC-RS-02	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S117	2437409.66	1961 Apr 20 0346	Nike Asp	-	ISRC-RS-03	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S118	2437410.28	1961 Apr 20 1839	Nike Asp	-	ISRC-RS-04	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S119	2437410.28	1961 Apr 20 1843	Nike Asp	-	ISRC-RS-05	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S120	2437410.51	1961 Apr 21 0012	Nike Asp	-	NASA 03.06CA	0.000	GSFC	SF	U	GCA/Dubin,Manring	Aeronomy	WDCRF	-	-
1961-S122	2437410.90	1961 Apr 21 0934	Nike Asp	-	NASA 03.07CA	0.000	GSFC	SF	U	GCA/Dubin,Manring	Aeronomy	WDCRF	-	-
1961-S123	2437410.90	1961 Apr 21 0939	Nike Asp	-	NASA 03.08CA	0.000	GSFC	SS	-	GCA/Dubin,Manring	Aeronomy	TX-M-55429	-	TN-D-1694:1939Z
1961-A111	2437417.44	1961 Apr 27 2232	Nike Cajun	-	NASA 10.34GA	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-A122	2437422.39	1961 May 2 2115	Nike	-	NASA 12.01GT	0.000	GSFC	SS	-	UMI/Spencer	Test	WDCRF	-	-
1961-S136	2437425.46	1961 May 5 2300	Nike Cajun	-	NASA 10.02GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S137	2437425.70	1961 May 6 0454	Nike Cajun	-	NASA 10.28GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S139	2437429.00	1961 May 9 1153	Nike Cajun	-	NASA 10.29GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S159	2437445.21	1961 May 25 1703	Nike Apache	-	NASA 14.01GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1961-A252	2437451.50	1961 Jun 1	Nike Yardbird	-	Test Flight 1	0.000	UMI	SF	U	UMI/Hansen	Test/Aeron	UM-YB	-	-
1961-S168	2437457.41	1961 Jun 6 2148	Nike Cajun	-	NASA 10.50UA	0.000	GSFC	SS	-	UMI/Peterson,Schulte	Aeronomy	WDCRF	-	-
1961-S174	2437460.25	1961 Jun 9 1802	Nike Cajun	-	NASA 10.56UA	0.000	GSFC	SS	-	UMI/Dubin,Schaefer	Aeronomy	WDCRF	-	-
1961-S185	2437474.12	1961 Jun 23 1500	Nike Cajun	-	AA6.104	0.000	AFCRL	SS	-	AFCRL/Soberman	Meteorites	WDCRF	-	-
1961-A165	2437481.22	1961 Jun 30 1720	Astrobee 200	-	CRL AA15.303	0.000	AFCRL	SF	U	AFCRL/Gustafson,Hoult	Test	WDCRF	-	-
1961-S205	2437494.42	1961 Jul 13 2207	Nike Cajun	-	NASA 10.30GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S206	2437494.62	1961 Jul 14 0257	Nike Apache	-	NASA 14.03UE	0.000	GSFC	SS	-	UNH/Heppner,Cahill	Magnetospheric	WDCRF	-	-
1961-S207	2437495.12	1961 Jul 14 1500	Nike Apache	-	NASA 14.04UE	0.000	GSFC	SS	-	UNH/Heppner,Cahill	Magnetospheric	WDCRF	-	-
1961-A166	2437495.17	1961 Jul 14 1600	Nike	-	Smoke 014	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S208	2437495.17	1961 Jul 14 1602	Nike Cajun	-	NASA 10.31GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-A167	2437495.39	1961 Jul 14 2120	Nike	-	Smoke 015	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-A168	2437495.39	1961 Jul 14 2120	Nike	-	Smoke 016	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S213	2437500.94	1961 Jul 20 1030	Nike Cajun	-	NASA 10.32GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S214	2437501.05	1961 Jul 20 1312	Nike Apache	-	NASA 14.05UE	0.000	GSFC	SS	-	UNH/Heppner,Cahill	Magnetospheric	WDCRF	-	-
1961-M19	2437501.66	1961 Jul 21 0350	Nike Cajun	-	NASA 10.35GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-A253	2437506.50	1961 Jul 26	Nike Yardbird	-	Test Flight 2	0.000	UMI	SF	U	UMI/Hansen	Test/Aeron	UM-YB	-	-
1961-S221	2437507.31	1961 Jul 26 1922	Nike Cajun	-	NASA 10.57UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1961-S245	2437528.35	1961 Aug 16 2027	Nike Apache	-	NASA 14.02GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1961-S248	2437529.63	1961 Aug 18 0306	Nike Cajun	-	NASA 10.51CI	0.000	GSFC	SS	-	GCA/Wright	Ionos	CR-68050	GCA-63-23N	-
1961-S257	2437540.24	1961 Aug 28 1741	Nike Asp	-	-	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1961-S271	2437550.26	1961 Sep 7 1817	Nike Asp	-	ISRC-RS-06	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S272	2437550.67	1961 Sep 8 0406	Nike Cajun	-	ISRC-RS-07	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-S273	2437550.67	1961 Sep 8 0411	Nike Cajun	-	ISRC-RS-08	0.000	CRA	SS	-	ROSAP/Broglio	Aeron	WDC	Ragno	-
1961-A202	2437558.92	1961 Sep 16 1002	Nike Asp	-	NASA 03.09CA	0.000	GSFC	SF	U	GCA/Smith	Aeronomy	WDCRF	-	-
1961-S287	2437559.50	1961 Sep 16 2355	Nike Cajun	-	NASA 10.36GA	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	-	-
1961-S286	2437559.53	1961 Sep 17 0039	Nike Asp	-	NASA 03.18CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	Wire/Ulrich	-	WDCRF 2139Z
1961-S290	2437559.92	1961 Sep 17 1003	Nike Asp	-	NASA 03.19CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1961-S291	2437559.93	1961 Sep 17 1013	Nike Cajun	-	NASA 10.37GA	0.000	GSFC	SS	-	GSFC/UMI/Smith,Peterson	Aeronomy	WDCRF	-	-
1961-S299	2437569.41	1961 Sep 26 2156	Nike Cajun	-	OB6.16	0.000	BRL	SS	-	BRL/Leeder	Aeron	WDCRF	-	-
1961-A375	2437582.50	1961 Oct 10	Nike Nike	-	-	0.000	WADD	AS	-	USAF/	Parachute Test	Ulrich	-	-
1961-A222	2437597.17	1961 Oct 24 1610	Nike	-	Smoke 018	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S356	2437599.90	1961 Oct 27 0935	Nike Cajun	-	NASA 10.52CI	0.000	GSFC	SS	-	GCA/Wright,Smith.L	Ionospheric	CR-68050	GCA-63-23N	-
1961-A273	2437604.50	1961 Nov 1	Nike Cree	-	-	0.000	WADD	AS	-	USAF/	Parachute Test	Ulrich	-	-
1961-S373	2437618.50	1961 Nov 15	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/Moore	Test	MR611204-10	GilMoore	-
1961-S382	2437621.77	1961 Nov 18 0630	Nike Cajun	-	NASA 10.72NA	0.000	GSFC	SS	-	LARC/Hord,Lanford	Aeronomy	WDCRF	-	-
1961-A238	2437626.15	1961 Nov 22 1530	Nike	-	Smoke 019	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1961-S419	2437644.21	1961 Dec 10 1701	Nike Cajun	-	NASA 10.76GE	0.000	GSFC	SS	-	GSFC/Olgivie,Fichtel	Cosmic rays	WDCRF	-	-
1961-S432	2437655.33	1961 Dec 21 1954	Nike Cajun	-	NASA 10.64GA	0.000	GSFC	SS	-	UMI/Spencer	Aeronomy	WDCRF	-	-
1961-S433	2437655.40	1961 Dec 21 2131	Nike Cajun	-	NASA 10.74GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	-	-
1962-A08	2437681.38	1962 Jan 16 2110	Nike	-	Smoke 020	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-S30	2437694.33	1962 Jan 29 2000	Astrobee 200	-	CRL AA15.109	0.000	AFCRL	SS	-	AFCRL/Silverman	Test/Aeron	WDCRF	-	-
1962-A17	2437702.29	1962 Feb 6 1900	Nike	-	Smoke 021	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-S627	2437696.50	1962 Feb 1	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S628	2437701.50	1962 Feb 6	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S44	2437716.06	1962 Feb 20 1328	Nike Cajun	-	NASA 10.90UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1962-S52	2437725.21	1962 Mar 1 1707	Nike Cajun	-	AA6.167	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1962-S53	2437725.47	1962 Mar 1 2323	Nike Cajun	-	NASA 10.100CA	0.000	GSFC	SS	-	GCA/Manring	Aeronomy	CR-70506	-	-
1962-A30	2437725.48	1962 Mar 1 2330	Nike Cajun	-	NASA 10.69GT	0.000	GSFC	SF	U	GSFC/Donn	Test	WDCRF	-	-
1962-S629	2437725.50	1962 Mar 2	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S54	2437725.50	1962 Mar 2 0001	Nike Cajun	-	NASA 10.38GA	0.000	GSFC	SS	-	GSFC/UMI/Smith	Aeronomy	TN-D-1694	-	FDC 0005Z
1962-S55	2437725.95	1962 Mar 2 1047	Nike Cajun	-	NASA 10.70GT	0.000	GSFC	SS	-	GSFC/Donn	Test	WDCRF	-	-
1962-S56	2437725.95	1962 Mar 2 1054	Nike Cajun	-	NASA 10.101CA	0.000	GSFC	SS	-	GCA/Manring	Aeronomy	CR-70506	-	-
1962-S57	2437725.97	1962 Mar 2 1115	Nike Cajun	-	NASA 10.39GA	0.000	GSFC	SS	-	GSFC/UMI/Smith	Aeronomy	WDCRF	-	-
1962-S630	2437735.50	1962 Mar 12	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S631	2437735.50	1962 Mar 12	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S632	2437738.50	1962 Mar 15	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S69	2437739.50	1962 Mar 16	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron?	MR620326-16	-	-
1962-S633	2437743.50	1962 Mar 20	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S634	2437744.50	1962 Mar 21	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	SpeedBallRpt	-	-
1962-S75	2437747.49	1962 Mar 23 2344	Nike Cajun	-	NASA 10.102CA	0.000	GSFC	SS	-	GCA/Manring,Smith	Aeronomy	CR-70506	-	-
1962-S76	2437747.50	1962 Mar 23 2354	Nike Cajun	-	NASA 10.40GA	0.000	GSFC	SS	-	GSFC/UMI/Smith,Peterson	Aeronomy	WDCRF	-	-
1962-S78	2437751.49	1962 Mar 27 2348	Nike Cajun	-	NASA 10.103CA	0.000	GSFC	SS	-	GCA/Manring,Smith	Aeronomy	CR-70506	-	-
1962-S80	2437751.50	1962 Mar 28 0003	Nike Cajun	-	NASA 10.41GA	0.000	GSFC	SS	-	GSFC/UMI/Smith	Aeronomy	WDCRF	-	-
1962-S82	2437754.50	1962 Apr	Nike Cajun	-	-	0.000	WSMR	SS	-	WSMR/?	Aeronomy	WSMR	-	-
1962-S83	2437754.50	1962 Apr	Nike Cajun	-	-	0.000	WSMR	SS	-	WSMR/?	Aeronomy	WSMR	-	-
1962-S84	2437754.50	1962 Apr	Nike Cajun	-	-	0.000	WSMR	SS	-	WSMR/?	Aeronomy	WSMR	-	-
1962-A46	2437759.37	1962 Apr 4 2050	Nike	-	Smoke 022	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-M03	2437759.69	1962 Apr 5 0431	Nike Cajun	-	NASA 10.79NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	TN-D-2972	WDCRF	-
1962-S100	2437771.89	1962 Apr 17 0928	Nike Cajun	-	NASA 10.42GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-S101	2437771.90	1962 Apr 17 0943	Nike Asp	-	NASA 03.20CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	CR-70506	-	-
1962-S105	2437773.31	1962 Apr 18 1932	Astrobee 200	-	CRL AA15.285	0.000	AFCRL	SS	-	AFCRL/Kelliher	Ionos	WDCRF	-	-
1962-S110	2437781.17	1962 Apr 26 1600	Nike Cajun	-	NASA 10.110GI	0.000	GSFC/RRL	SS	-	GSFC/RRL/Serbu,Hirao	Ionos	ISTS7	WDCRF	-
1962-S117	2437785.27	1962 Apr 30 1835	Astrobee 200	-	CRL AA15.196	0.000	AFCRL	SS	-	AFCRL/Hinteregger,Ulwick	Ionos	AFCRL2	-	-
1962-A66	2437789.35	1962 May 4 2030	Nike	-	Smoke 023	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-A67	2437789.35	1962 May 4 2030	Nike	-	Smoke 024	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-A68	2437789.35	1962 May 4 2030	Nike	-	Smoke 025	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-A72	2437790.28	1962 May 5 1840	Nike	-	Smoke 026	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-S131	2437801.21	1962 May 16 1703	Nike Cajun	-	NASA 10.112GI	0.000	GSFC/RRL	SS	-	GSFC/RRL/Serbu,Hirao	Ionos	WDCRF	-	-
1962-S133	2437801.59	1962 May 17 0204	Nike Cajun	-	NASA 10.111GI	0.000	GSFC/RRL	SS	-	GSFC/RRL/Serbu,Hirao	Ionos	WDCRF	ISTS7	-
1962-S136	2437803.25	1962 May 18 1801	Nike Cajun	-	NASA 10.91UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1962-A85	2437810.24	1962 May 25 1740	Nike	-	Smoke 027	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-2937	-	-
1962-S153	2437816.50	1962 Jun 1	Nike Cajun	-	FB-1	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	AFCRL2	-	-
1962-S171	2437822.49	1962 Jun 6 2340:00	Nike Apache	-	NASA 14.19UA	0.000	GSFC	SS	-	UMI/Spencer,Horvath	Aeronomy	WDCRF	-	-
1962-S175	2437822.50	1962 Jun 7 0005	Nike Cajun	-	NASA 10.43GA	0.000	GSFC	SS	-	GSFC/UMI/Smith,Peterson	Aeronomy	TN-D-1694	WDCRF	-
1962-S176	2437822.54	1962 Jun 7 0056	Nike Asp	-	NASA 03.21CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	CR-70506	-	-
1962-A93	2437822.87	1962 Jun 7 0852	Nike Asp	-	NASA 03.22CA	0.000	GSFC	SF	U	GCA/Manring,Smith	Aeronomy	CR-70506	-	-
1962-S177	2437823.11	1962 Jun 7 1445	Nike Cajun	-	Rehbar 1	0.000	SUPA	SS	-	SUPA/Mustafa	Aeronomy	WDCRF	-	-
1962-S180	2437823.54	1962 Jun 8 0053	Nike Cajun	-	NASA 10.44GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-S182	2437827.12	1962 Jun 11 1450	Nike Cajun	-	Rehbar 2	0.000	SUPA	SS	-	SUPA/Mustafa	Aeronomy	WDCRF	-	-
1962-S188	2437831.20	1962 Jun 15 1648	Nike Apache	-	NASA 14.12GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	-	-
1962-S190	2437834.50	1962 Jun 19	Nike Cajun	-	FB-2	0.000	AFCRL	SS	-	AFCRL/	Aeronomy	AFCRL2	-	-
1962-S204	2437843.09	1962 Jun 27 1410:00	Nike Asp	-	-	0.000	NRL?	SU	-	NRL/?	Ionos	WDCRF	-	-
1962-S206	2437843.51	1962 Jun 28 0010:00	Nike Asp	-	-	0.000	NRL?	SU	-	NRL/?	Ionos	WDCRF	-	-
1962-S217	2437846.50	1962 Jul 1	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	WDCRF	-	-
1962-S227	2437853.50	1962 Jul 8	Nike Cajun	-	FB-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1962-S230	2437854.76	1962 Jul 9 0615?	Nike Cajun	-	Project 9.1 Na	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	AD-A955411	WDCRF	-
1962-S231	2437854.85	1962 Jul 9 0830?	Nike Cajun	-	Project 9.1 Na	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	AD-A955411	WDCRF	-
1962-S616	2437854.87	1962 Jul 9 0856:34	Nike Apache	-	SJI-152	0.000	SAND?	SS	-	SAND/?	Diagnostic	AD-A955411	-	-
1962-S617	2437854.87	1962 Jul 9 0856:39	Nike Apache	-	SJI-152	0.000	SAND?	SS	-	SAND/?	Diagnostic	AD-A955411	-	-
1962-S618	2437854.87	1962 Jul 9 0856:40	Nike Apache	-	SJI-111	0.000	SAND	SS	-	LRL/Gilbert?	Diagnostic	AD-A955411	-	-
1962-S619	2437854.87	1962 Jul 9 0856:41	Nike Apache	-	SJI-151	0.000	SAND	SS	-	LRL/Gilbert?	Diagnostic	AD-A955411	-	-
1962-S620	2437854.87	1962 Jul 9 0856:42	Nike Apache	-	SJI-112	0.000	SAND	SS	-	LRL/Gilbert?	Diagnostic	AD-A955411	-	-
1962-S621	2437854.87	1962 Jul 9 0857:48	Nike Apache	-	SJS-151	0.000	SAND	SS	-	SAND/Scott	Diagnostic	AD-A955411	-	-
1962-S591	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-153	0.000	SAND	SS	-	SAND/	Diagnostic	AD-A955411	-	-
1962-S592	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-111	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S593	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-112	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S594	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-115	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S595	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-131	0.000	SAND	SS	-	LASL/Hoerlin	Diagnostic	AD-A955411	-	-
1962-S596	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-137	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S597	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-151	0.000	SAND	SS	-	SAND/Miller	Diagnostic	AD-A955411	-	-
1962-S598	2437854.87	1962 Jul 9 0856:44	Nike Apache	-	SKI-154	0.000	SAND	SS	-	SAND/Miller	Diagnostic	AD-A955411	-	-
1962-S599	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-113	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S600	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-114	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S601	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-133	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S602	2437854.87	1962 Jul 9 0856:54	Nike Apache	-	SKI-138	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S603	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-116	0.000	SAND	SS	-	LRL/Gilbert	Diagnostic	AD-A955411	-	-
1962-S604	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-134	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S605	2437854.87	1962 Jul 9 0857:00	Nike Apache	-	SKI-152	0.000	SAND	SS	-	SAND/	Diagnostic	AD-A955411	-	-
1962-S606	2437854.87	1962 Jul 9 0857:05	Nike Apache	-	SKI-155	0.000	SAND	SS	-	SAND/Miller	Diagnostic	AD-A955411	-	-
1962-S607	2437854.87	1962 Jul 9 0857:05	Nike Apache	-	SKI-157	0.000	SAND	SS	-	SAND/	Diagnostic	AD-A955411	-	-
1962-S608	2437854.87	1962 Jul 9 0857:14	Nike Apache	-	SKI-156	0.000	SAND	SS	-	SAND/Miller	Diagnostic	AD-A955411	-	-
1962-S232	2437854.87	1962 Jul 9 0859?	Nike Cajun	-	Project 9.1 Sphere	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeronomy	AD-A955411	AFCRL	-
1962-S609	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-132	0.000	SAND	SS	-	LASL/Hoerlin	Diagnostic	AD-A955411	-	-
1962-S610	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-135	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S611	2437854.87	1962 Jul 9 0859:20	Nike Apache	-	SKI-136	0.000	SAND	SS	-	LASL/	Diagnostic	AD-A955411	-	-
1962-S613	2437854.88	1962 Jul 9 0903:40?	Nike Apache	-	Project 6.13	0.000	SAND	SS	-	NMSU/	Diagnostic	AD-A955411	-	-
1962-S614	2437854.88	1962 Jul 9 0911:50?	Nike Apache	-	Project 6.13	0.000	SAND	SS	-	NMSU/	Diagnostic	AD-A955411	-	-
1962-S233	2437854.88	1962 Jul 9 0908?	Nike Cajun	-	Project 9.1 Sphere	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeronomy	AD-A955411	AFCRL	-
1962-S615	2437854.90	1962 Jul 9 0931?	Nike Apache	-	Project 6.13	0.000	SAND	SS	-	NMSU/	Diagnostic	AD-A955411	-	-
1962-S622	2437854.92	1962 Jul 9 0959	Nike Apache	-	SJS-152	0.000	SAND	SS	-	SAND/Scott	Diagnostic	AD-A955411	-	-
1962-S612	2437856.16	1962 Jul 10 1549?	Nike Cajun	-	Project 9.1 Na	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	AD-A955411	-	-
1962-S246	2437864.86	1962 Jul 19 0840	Nike Cajun	-	FB-5	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1962-S259	2437868.50	1962 Jul 23	Nike Cajun	-	FB-4	0.000	AFCRL	SS	-	AFCRL/Faire,Narcisi	Aeronomy	AFCRL	-	-
1962-S281	2437883.53	1962 Aug 7 0047:08	Nike Cajun	-	RTG K62-1	0.000	RTG/AFCRL	SS	-	STO/AFCRL/Witt,Sob	Aeronomy	TM-X-55174	WDCRF	-
1962-A132	2437885.30	1962 Aug 8 1915	Nike	-	Smoke 303	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S293	2437887.58	1962 Aug 11 0148:11	Nike Cajun	-	RTG K62-3	0.000	RTG/AFCRL	SS	-	STO/AFCRL/Witt	Aeronomy	TM-X-55174	WDCRF	-
1962-S297	2437894.80	1962 Aug 18 0709	Nike Cajun	-	Ferdinand 1	0.000	NTNF	SS	-	ILC/Rybner,Petersen	Ionos	WDCRF	AND	-
1962-S298	2437895.54	1962 Aug 19 0057:39	Nike Cajun	-	RTG K62-4	0.000	RTG/AFCRL	SS	-	STO/AFCRL/Witt	Aeronomy	TM-X-55174	WDCRF	-
1962-S309	2437900.22	1962 Aug 23 1710	Nike Apache	-	NASA 14.30CA	0.000	GSFC	SS	-	LPARL/Sharp,Depew	Aeronomy	WDCRF	-	-
1962-M54	2437903.79	1962 Aug 27 0653	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/?	Tech	TampaBayTimes/Ulrich	-	-
1962-S315	2437905.32	1962 Aug 28 1934	Nike Cajun	-	AC6.829	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1962-S317	2437906.29	1962 Aug 29 1900	Nike Cajun	-	AC6.830	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1962-S320	2437907.54	1962 Aug 31 0056:07	Nike Cajun	-	RTG K62-5	0.000	RTG/AFCRL	SS	-	STO/AFCRL/Witt	Aeronomy	TM-X-55174	WDCRF	-
1962-A158	2437933.35	1962 Sep 25 2028	Nike	-	Smoke 304	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A160	2437934.84	1962 Sep 27 0808:00	Nike	-	-	0.000	AFCRL	SU	-	AFCRL/Sagalyn?	Aeron	WDCRF	-	-
1962-A164	2437941.35	1962 Oct 3 2030	Nike	-	Smoke 302	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S382	2437944.50	1962 Oct 7	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1962-A167	2437946.29	1962 Oct 8 1900	Nike	-	Smoke 305	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A169	2437948.35	1962 Oct 10 2030	Nike	-	Smoke 306	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S386	2437948.52	1962 Oct 11 0030	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1962-M26	2437949.36	1962 Oct 11 2033:00	Nike Cajun	?	-	0.000	AFCRL	SU	-	AFCRL/?	Aeron	WDCRF	-	-
1962-S391	2437952.97	1962 Oct 15 1115	Nike Cajun	-	AC6.441	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S394	2437953.97	1962 Oct 16 1115	Nike Cajun	-	AC6.434	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S395	2437954.13	1962 Oct 16 1506	Nike Apache	-	NASA 14.31GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	WDCRF	GCA-63-23N	-
1962-S397	2437954.53	1962 Oct 17 0040	Nike Cajun	-	AC6.443	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S398	2437954.97	1962 Oct 17 1116	Nike Cajun	-	AC6.442	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S399	2437955.16	1962 Oct 17 1552	Nike Cajun	-	AC6.832	0.000	AFCRL	SS	-	AFCRL/Etkind	Ionos	WDCRF	-	-
1962-S402	2437955.54	1962 Oct 18 0100	Nike Cajun	-	AC6.435	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S404	2437956.97	1962 Oct 19 1117	Nike Cajun	-	AC6.438	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-A174	2437957.33	1962 Oct 19 1953	Nike	-	Smoke 307	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S407	2437957.88	1962 Oct 20 0900	Nike Cajun	-	FB-7	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1962-S414	2437959.97	1962 Oct 22 1119:00	Nike Cajun	-	AC6.448	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S415	2437960.97	1962 Oct 23 1119:00	Nike Cajun	-	AC6.446	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S419	2437962.50	1962 Oct 25	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Narcisi	Ionos	WDCRF	-	-
1962-S421	2437962.77	1962 Oct 25 0630	Nike Cajun	-	AC6.444	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S423	2437962.97	1962 Oct 25 1121:00	Nike Cajun	-	AC6.437	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S432	2437963.93	1962 Oct 26 1015	Nike Cajun	-	FB-6	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeronomy	AFCRL2	-	-
1962-S426	2437963.50	1962 Oct 26	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Champion	Ionos	WDCRF	-	-
1962-S427	2437963.50	1962 Oct 26	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	WDCRF	-	-
1962-S436	2437964.50	1962 Oct 27	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	WDCRF	-	-
1962-A180	2437967.34	1962 Oct 29 2013	Nike	-	Smoke 308	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S452	2437969.98	1962 Nov 1 1125	Nike Cajun	-	AC6.439	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S456	2437970.01	1962 Nov 1 1220	Nike Cajun	-	FB-8	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	-	-
1962-A186	2437970.33	1962 Nov 1 2002	Nike	-	Smoke 309	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S460	2437970.82	1962 Nov 2 0734	Nike Cajun	-	FB-9	0.000	AFCRL	SF	U	AFCRL/Champion	Aeronomy	AFCRL2	-	-
1962-S461	2437970.98	1962 Nov 2 1125	Nike Cajun	-	AC6.436	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S462	2437971.50	1962 Nov 3	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	WDCRF	-	-
1962-S464	2437972.50	1962 Nov 4	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	WDCRF	-	-
1962-S465	2437972.50	1962 Nov 4	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Champion	Aeronomy	WDCRF	-	-
1962-S466	2437973.98	1962 Nov 5 1129	Nike Cajun	-	AC6.440	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	MR621112-10	-
1962-A190	2437974.38	1962 Nov 5 2103	Nike	-	Smoke 310	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S467	2437974.83	1962 Nov 6 0800	Nike Cajun	-	AC6.445	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-A191	2437975.37	1962 Nov 6 2049	Nike	-	Smoke 311	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S469	2437975.93	1962 Nov 7 1025	Nike Cajun	-	NASA 10.99CI	0.000	GSFC	SS	-	GCA/Smith.L	Ionos	CR-68050	GCA63-22-N	-
1962-S470	2437975.95	1962 Nov 7 1053	Nike Apache	-	NASA 14.16CA	0.000	GSFC	SS	-	GCA/Manring	Aeronomy	WDCRF	GCA63-22-N	-
1962-A194	2437982.31	1962 Nov 13 1930	Nike	-	Smoke 312	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A196	2437984.75	1962 Nov 16 0559	Nike Cajun	-	NASA 10.65GA	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-A197	2437985.24	1962 Nov 16 1745	Nike	-	Smoke 368	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A198	2437985.35	1962 Nov 16 2023	Nike	-	Smoke 313	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S515	2437998.96	1962 Nov 30 1057	Nike Cajun	-	NASA 10.108CI	0.000	GSFC	SS	-	GCA/Smith	Ionos	CR-68050	GCA63-22-N	-
1962-S516	2437998.97	1962 Nov 30 1115	Nike Apache	-	NASA 14.17CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	CR-70506	GCA63-22-N	-
1962-S503	2437998.50	1962 Dec	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1962-S504	2437998.50	1962 Dec	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1962-S505	2437998.50	1962 Dec	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1962-S517	2438000.25	1962 Dec 1 1806	Nike Apache	-	NASA 14.32GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	WDCRF	-	-
1962-S518	2438000.36	1962 Dec 1 2034:00	Nike Apache	-	NASA 14.20UA	0.000	GSFC	SS	-	UMI/Spencer	Aeronomy	WDCRF	-	-
1962-S519	2438000.39	1962 Dec 1 2125	Nike Cajun	-	NASA 10.45GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-S520	2438000.40	1962 Dec 1 2134	Nike Cajun	-	NASA 10.68GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-S521	2438000.47	1962 Dec 1 2320	Nike Apache	-	NASA 14.45AA/AC5.465	0.000	GSFC	SS	-	AFCRL/GCA/Rosenberg	Aeronomy Na	WDCRF	-	-
1962-S522	2438002.47	1962 Dec 3 2320	Nike Apache	-	NASA 14.46AA/AC5.468	0.000	GSFC/AFCRL	SS	-	AFCRL/GCA/Rosenberg	Aeronomy Na	WDCRF	-	-
1962-S524	2438002.50	1962 Dec 4 0001	Nike Apache	-	AC5.466	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AD403534	-	-
1962-S525	2438002.66	1962 Dec 4 0345	Nike Apache	-	AC5.467	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S527	2438002.80	1962 Dec 4 0706	Nike Cajun	-	NASA 10.67GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-M38	2438002.80	1962 Dec 4 0719	Nike Cajun	-	NASA 10.46GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-A212	2438003.34	1962 Dec 4 2007	Nike	-	Smoke 314	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S534	2438004.42	1962 Dec 5 2200	Nike Cajun	-	NASA 10.109CI	0.000	GSFC	SS	-	GCA/Bordeau	Ionos	GCA63-22-N	CR-68050	-
1962-S536	2438004.43	1962 Dec 5 2216	Nike Apache	-	NASA 14.18CA	0.000	GSFC	SS	-	GCA/Smith	Aeron	GCA63-22-N	SP-4401	GCA63-22N: Dec 6 0016
1962-S537	2438004.73	1962 Dec 6 0532	Nike Cajun	-	NASA 10.47GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-S538	2438004.74	1962 Dec 6 0543	Nike Cajun	-	NASA 10.66GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1962-A214	2438005.39	1962 Dec 6 2120	Nike	-	Smoke 315	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A217	2438009.23	1962 Dec 10 1730	Nike	-	Smoke 316	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S549	2438009.50	1962 Dec 11	Nike Cajun	-	ISRC-RS-?	0.000	CRA	SS	-	ROSAP/Broglio	Aeron?	WDC	Ragno	-
1962-S551	2438009.56	1962 Dec 11 0130	Nike Cajun	-	AC6.447	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1962-S552	2438009.64	1962 Dec 11 0327	Nike Cajun	-	Ferdinand 3	0.000	NTNF	SS	-	ILC/Jespersen	Ionos	AND	WDCRF	-
1962-A220	2438010.37	1962 Dec 11 2047	Nike	-	Smoke 317	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A224	2438012.33	1962 Dec 13 2000	Nike	-	Smoke 318	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A226	2438013.32	1962 Dec 14 1936	Nike	-	Smoke 319	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-S565	2438013.37	1962 Dec 14 2052	Nike Cajun	-	Ferdinand 2	0.000	NTNF	SS	-	ILC/Jespersen	Ionos	AND	WDCRF	-
1962-A228	2438016.35	1962 Dec 17 2026	Nike	-	Smoke 320	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A229	2438017.21	1962 Dec 18 1703	Nike	-	Smoke 321	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A231	2438018.21	1962 Dec 19 1700	Nike	-	Smoke 322	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A233	2438019.32	1962 Dec 20 1947	Nike	-	Smoke 323	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A235	2438020.23	1962 Dec 21 1726	Nike	-	Smoke 324	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1962-A238	2438027.25	1962 Dec 28 1807	Nike	-	Smoke 325	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-3289	-	-
1963-S02	2438029.50	1963 Jan	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-S03	2438029.50	1963 Jan	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-A05	2438033.33	1963 Jan 3 1958	Nike	-	Smoke 326	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A06	2438033.38	1963 Jan 3 2100	Nike	-	Smoke 327	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A07	2438034.33	1963 Jan 4 2000	Nike	-	Smoke 328	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A09	2438039.25	1963 Jan 9 1800	Nike	-	Smoke 330	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A10	2438040.31	1963 Jan 10 1930	Nike	-	Smoke 331	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A11	2438041.32	1963 Jan 11 1942	Nike	-	Smoke 332	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-M08	2438046.57	1963 Jan 17 0144	Nike Cajun	-	NASA 10.80NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WI-PR63-7	TN-D-2972	-
1963-A12	2438047.39	1963 Jan 17 2117	Nike	-	Smoke 333	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A13	2438048.43	1963 Jan 18 2217	Nike	-	Smoke 334	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A14	2438052.32	1963 Jan 22 1946	Nike	-	Smoke 335	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A15	2438058.25	1963 Jan 28 1800	Nike	-	Smoke 336	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A18	2438061.33	1963 Jan 31 2000	Nike	-	Smoke 337	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S28	2438060.50	1963 Feb	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-A21	2438068.24	1963 Feb 7 1745	Nike	-	Smoke 338	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S639	2438072.50	1963 Feb 12?	Nike Cajun	-	TRUMP	0.000	APGC	SS	-	APGC/	Tech	Powell	-	-
1963-A22	2438074.26	1963 Feb 13 1815	Nike	-	Smoke 339	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A26	2438079.47	1963 Feb 18 2314	Nike Asp	-	NASA 03.11CA	0.000	GSFC	SF	U	GCA/Smith.L	Aeronomy	CR-70506	-	-
1963-A27	2438081.31	1963 Feb 20 1930	Nike	-	Smoke 340	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S59	2438081.47	1963 Feb 20 2318	Nike Apache	-	NASA 14.35CA	0.000	GSFC	SS	-	GCA/Smith.L	Aeronomy	CR-70506	-	-
1963-S60	2438081.48	1963 Feb 20 2334	Nike Cajun	-	NASA 10.58GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S61	2438081.49	1963 Feb 20 2347	Nike Cajun	-	NASA 10.48GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S63	2438082.47	1963 Feb 21 2316	Nike Apache	-	NASA 14.39CA	0.000	GSFC	SS	-	GCA/Smith.L	Aeronomy	CR-70506	-	-
1963-S67	2438088.31	1963 Feb 27 1930:00	Nike Apache	-	NASA 14.86CI	0.000	GSFC	SS	-	GCA/Smith.L	Ionos/Eclipse test	CR-70324	-	-
1963-A28	2438088.31	1963 Feb 27 1930	Nike	-	Smoke 341	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S74	2438089.41	1963 Feb 28 2148	Nike Cajun	-	NASA 10.59GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S75	2438089.42	1963 Feb 28 2211	Nike Cajun	-	NASA 10.53GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S70	2438088.50	1963 Mar	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-S71	2438088.50	1963 Mar	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-A237	2438097.04	1963 Mar 8 1300	Nike Cree	-	-	0.000	WADD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-A33	2438097.31	1963 Mar 8 1920	Nike	-	Smoke 342	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S84	2438097.31	1963 Mar 8 1930	Nike Apache	-	NASA 14.107GI	0.000	GSFC	SS	-	GSFC/Whipple	Ionos	TM-X-55075	SR4,358	-
1963-S85	2438097.50	1963 Mar 9 0001	Nike Cajun	-	NASA 10.60GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S86	2438097.50	1963 Mar 9 0001	Nike Cajun	-	NASA 10.54GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-A36	2438100.40	1963 Mar 11 2130	Nike	-	Smoke 343	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A37	2438101.31	1963 Mar 12 1925	Nike	-	Smoke 344	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A40	2438107.31	1963 Mar 18 1930	Nike	-	Smoke 345	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S638	2438107.56	1963 Mar 19 0130?	Nike Cajun	-	TRUMP	0.000	APGC	SS	-	APGC/	Tech	Powell	-	-
1963-A41	2438110.30	1963 Mar 21 1910	Nike	-	Smoke 346	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A42	2438111.27	1963 Mar 22 1830	Nike	-	Smoke 347	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S122	2438114.56	1963 Mar 26 0130	Nike Cajun	-	Falling Sphere 1	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	-	-
1963-S117	2438116.83	1963 Mar 28 0754:59	Nike Apache	-	NASA 14.08UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1963-A238	2438117.07	1963 Mar 28 1345	Nike Cree	-	-	0.000	WADD	AS	-	WADD/	Parachute Test	Ulrich	-	-
1963-S119	2438117.30	1963 Mar 28 1906	Nike Apache	-	NASA 14.09UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1963-A47	2438117.25	1963 Mar 28 1802	Nike	-	Smoke 348	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S120	2438117.34	1963 Mar 28 2006:00	Nike Apache	-	NASA 14.87CI	0.000	GSFC	SS	-	GCA/Bordeau	Ionos/Eclipse test	CR-70324	-	-
1963-A48	2438117.34	1963 Mar 28 2010	Nike	-	Smoke 408	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S123	2438117.62	1963 Mar 29 0257	Nike Cajun	-	Falling Sphere 2	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-A49	2438122.31	1963 Apr 2 1923	Nike	-	Smoke 349	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A50	2438123.31	1963 Apr 3 1920	Nike	-	Smoke 350	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A51	2438125.29	1963 Apr 5 1903	Nike	-	Smoke 351	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S140	2438129.35	1963 Apr 9 2028	Nike Apache	-	NASA 14.108GI	0.000	GSFC	SS	-	GSFC/Kane	Ionos	WDCRF	-	-
1963-A54	2438131.36	1963 Apr 11 2035	Nike	-	Smoke 352	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A55	2438132.31	1963 Apr 12 1925	Nike	-	Smoke 353	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A57	2438135.31	1963 Apr 15 1930	Nike	-	Smoke 354	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A58	2438136.31	1963 Apr 16 1930	Nike	-	Smoke 355	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A59	2438137.31	1963 Apr 17 1930	Nike	-	Smoke 356	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A61	2438142.31	1963 Apr 22 1930	Nike	-	Smoke 357	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A63	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 028	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A64	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 029	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A65	2438145.33	1963 Apr 25 1958	Nike	-	Smoke 030	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A69	2438157.35	1963 May 7 2030	Nike	-	Smoke 358	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S192	2438158.22	1963 May 8 1723	Nike Apache	-	NASA 14.110CA	0.000	GSFC	SS	-	LPARL/Bordeau,Sharp	Aeronomy	WDCRF	-	-
1963-A70	2438158.31	1963 May 8 1930	Nike	-	Smoke 359	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A75	2438164.40	1963 May 14 2135	Nike	-	Smoke 360	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S203	2438165.67	1963 May 16 0400	Nike Cajun	-	AC6.472	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-S205	2438166.11	1963 May 16 1438	Nike Cajun	-	NASA 10.77IA	0.000	GSFC	SS	-	SUPA/	Aeronomy	WDCRF	-	-
1963-S640	2438167.72	1963 May 18 0514?	Nike Cajun	-	TRUMP	0.000	APGC	SS	-	APGC/	Tech	Powell	-	-
1963-S212	2438167.55	1963 May 18 0106	Nike Apache	-	NASA 14.141DA	0.000	GSFC	SS	-	AFCRL/GIT/Rosenberg	Aeronomy Na	WDCRF	-	-
1963-S213	2438167.68	1963 May 18 0418	Nike Apache	-	AC5.470	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-S214	2438167.87	1963 May 18 0855	Nike Cajun	-	AC6.473	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-S215	2438167.92	1963 May 18 1006	Nike Apache	-	NASA 14.140DA	0.000	GSFC	SS	-	AFCRL/GIT/Rosenberg	Aeronomy Na	WDCRF	-	-
1963-S216	2438169.50	1963 May 20	Nike Apache	-	NASA 14.137IA	0.000	GSFC	SS	-	ROSAP/Broglio	Aeronomy	WDCRF	-	-
1963-S219	2438170.50	1963 May 21	Nike Apache	-	NASA 14.139IA	0.000	GSFC	SS	-	ROSAP/Broglio	Aeronomy	WDCRF	-	-
1963-S220	2438170.50	1963 May 21	Nike Apache	-	NASA 14.138IA	0.000	GSFC	SS	-	ROSAP/Broglio	Aeronomy	WDCRF	-	-
1963-S225	2438171.55	1963 May 22 0110	Nike Cajun	-	NASA 10.130DA	0.000	GSFC	SS	-	AFCRL/GIT/Rosenberg	Aeronomy	WDCRF	-	-
1963-S227	2438171.72	1963 May 22 0510	Nike Apache	-	NASA 14.13CA	0.000	GSFC	SS	-	GCA/CNRS/Manning,Blamont	Aeronomy	FC	WDCRF	-
1963-S228	2438171.87	1963 May 22 0851	Nike Apache	-	NASA 14.14CA	0.000	GSFC	SS	-	GCA/CNRS/Manning,Blamont	Aeronomy	FC	WDCRF	-
1963-S230	2438172.72	1963 May 23 0513	Nike Apache	-	NASA 14.15CA	0.000	GSFC	SS	-	GCA/CNRS/Manning,Blamont	Aeronomy	FC	WDCRF	-
1963-S235	2438173.53	1963 May 24 0045	Nike Apache	-	NASA 14.40CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1963-S236	2438173.88	1963 May 24 0900	Nike Apache	-	NASA 14.41CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1963-S239	2438174.53	1963 May 25 0047	Nike Apache	-	NASA 14.42CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S243	2438178.50	1963 May 29	Nike Javelin	-	TRUMP 1	0.000	APGC	SS	-	APGC/	Test	MR630701-10	-	-
1963-S654	2438149.50	1963 May	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith	Aeron	SandNews631220	-	-
1963-S655	2438180.50	1963 Jun	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith	Aeron	SandNews631220	-	-
1963-S247	2438180.50	1963 Jun	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Reentry test	WSMR	-	-
1963-S248	2438180.50	1963 Jun	Nike Apache	?	Capache	0.000	WSMR	MS	-	-	-	WSMR	-	-
1963-S249	2438180.50	1963 Jun	Nike Apache	?	Capache	0.000	WSMR	MS	-	-	-	WSMR	-	-
1963-S250	2438180.50	1963 Jun	Nike Apache	?	Capache	0.000	WSMR	MS	-	-	-	WSMR	-	-
1963-A88	2438188.29	1963 Jun 7 1900	Nike	-	Smoke 361	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S284	2438198.64	1963 Jun 18 0328	Nike Cajun	-	Falling Sphere 3	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-A93	2438200.36	1963 Jun 19 2045	Nike	-	Smoke 362	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S287	2438200.62	1963 Jun 20 0300	Nike Cajun	-	Falling Sphere 4	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-S299	2438205.50	1963 Jun 25	Nike Tomahawk	9a	Sandia 152-2	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1963-S312	2438210.50	1963 Jul	Nike Apache	?	Capache	0.000	WSMR	MS	-	-	-	WSMR	-	-
1963-S313	2438210.50	1963 Jul	Nike Apache	?	Capache	0.000	WSMR	MS	-	-	-	WSMR	-	-
1963-S317	2438211.50	1963 Jul 1	Nike Tomahawk	9a	Sandia 152-3	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1963-A101	2438212.25	1963 Jul 1 1800	Nike	-	Smoke 363	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A102	2438213.50	1963 Jul 3	Nike Tomahawk	9a	Sandia 152-4	0.000	SAND	SF	U	SAND/	Test	FDS	-	-
1963-S339	2438225.38	1963 Jul 14 2103:28	Nike Apache	-	NASA 14.88CI	0.000	GSFC	SS	-	GCA/Smith	Ionos/Eclipse test	CR-70324	-	-
1963-A107	2438228.31	1963 Jul 17 1930	Nike	-	Smoke 364	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A110	2438231.33	1963 Jul 20 2000:02	Nike Apache	-	NASA 14.89CI	0.000	GSFC	SF	U	GCA/Smith	Ionos/Eclipse	CR-70324	-	-
1963-A111	2438231.35	1963 Jul 20 2030:00	Nike Apache	-	NASA 14.90CI	0.000	GSFC	SF	U	GCA/Smith	Ionos/Eclipse	CR-70324	-	-
1963-S346	2438231.38	1963 Jul 20 2103:00	Nike Apache	-	NASA 14.91CI	0.000	GSFC	SS	-	GCA/Smith	Ionos/Eclipse	CR-70324	CR-74090	-
1963-S348	2438231.38	1963 Jul 20 2113:00	Nike Apache	-	NASA 14.92CI	0.000	GSFC	SS	-	GCA/Smith	Ionos/Eclipse/Solar X	CR-70324	CR-74090	-
1963-S349	2438231.40	1963 Jul 20 2140:00	Nike Apache	-	NASA 14.93CI	0.000	GSFC	SS	-	GCA/Smith	Ionos/Eclipse/Solar X	CR-70324	CR-74090	-
1963-S351	2438231.42	1963 Jul 20 2210:00	Nike Apache	-	NASA 14.94CI	0.000	GSFC	SS	-	GCA/Smith	Ionos/Eclipse/Solar X	CR-70324	CR-74090	-
1963-A114	2438237.31	1963 Jul 26 1930	Nike	-	Smoke 365	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S366	2438237.51	1963 Jul 27 0010	Nike Cajun	-	RTG K63-1	0.000	RTG	SS	-	STO/GSFC/Witt	Aeronomy	WDCRF	-	-
1963-S368	2438240.48	1963 Jul 29 2328	Nike Cajun	-	RTG K63-2	0.000	RTG	SS	-	STO/GSFC/Witt	Aeronomy	WDCRF	-	-
1963-A115	2438242.31	1963 Jul 31 1930	Nike	-	Smoke 366	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S370	2438241.50	1963 Aug	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1963-S371	2438241.50	1963 Aug	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1963-S374	2438243.48	1963 Aug 1 2327	Nike Cajun	-	RTG K63-3	0.000	RTG	SS	-	STO/GSFC/Witt	Aeronomy	WDCRF	-	-
1963-S377	2438244.48	1963 Aug 2 2333	Nike Cajun	-	NASA 10.75UA	0.000	GSFC	SS	-	UMI/Holtz,Hansen	Aeronomy	WDCRF	-	-
1963-A118	2438249.31	1963 Aug 7 1930	Nike	-	Smoke 367	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S380	2438249.44	1963 Aug 7 2229	Nike Cajun	-	RTG K63-4	0.000	RTG	SS	-	STO/GSFC/Witt	Aeronomy	WDCRF	-	-
1963-A121	2438257.47	1963 Aug 15 2311	Nike	-	Smoke 031	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-S417	2438272.50	1963 Sep	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1963-S418	2438272.50	1963 Sep	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1963-S420	2438273.84	1963 Sep 1 0803	Nike Cajun	-	Ferdinand 5	0.000	NDRE	SS	-	ILC/NDRE/Jespersen	Aeron/Ionos/Solar	WDCRF	AND	-
1963-S436	2438282.17	1963 Sep 9 1602	Nike Apache	-	NASA 14.06UE	0.000	GSFC	SS	-	UNH/Schardt,Cahill	Magnetospheric	WDCRF	-	-
1963-S442	2438284.76	1963 Sep 12 0620	Nike Apache	-	Ferdinand 4	0.000	NDRE?	SS	-	ILC/NDRE/Jespersen	Ionos/Plasma/Solar	WDCRF	-	-
1963-A125	2438292.34	1963 Sep 19 2014	Nike	-	Smoke 032	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A126	2438292.41	1963 Sep 19 2148	Nike	-	Smoke 033	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A127	2438296.25	1963 Sep 23 1800	Nike	-	Smoke 034	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-S453	2438296.68	1963 Sep 24 0415	Nike Apache	-	AC5.475	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1963-S455	2438297.66	1963 Sep 25 0357	Nike Cajun	-	NASA 10.92NA	0.000	GSFC	SS	-	LARC/Tolefson	Aeronomy	WDCRF	-	-
1963-S456	2438297.69	1963 Sep 25 0434	Nike Cajun	-	NASA 10.93NA	0.000	GSFC	SS	-	LARC/Tolefson	Aeronomy	WDCRF	-	-
1963-S462	2438298.69	1963 Sep 26 0437	Nike Apache	-	AC5.476	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-S463	2438298.73	1963 Sep 26 0530	Nike Apache	-	AC5.478	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-A134	2438303.31	1963 Sep 30 1930	Nike	-	Smoke 369	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S469	2438302.50	1963 Oct	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1963-S473	2438303.95	1963 Oct 1 1047	Nike Apache	-	AC5.477	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1963-A135	2438304.34	1963 Oct 1 2012	Nike	-	Smoke 370	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-A136	2438304.40	1963 Oct 1 2134	Nike	-	Smoke 035	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A137	2438304.50	1963 Oct 2	Nike Tomahawk	9a	Sandia 152-6	0.000	SAND	SF	U	SAND/	Test	FDS	-	-
1963-A140	2438307.26	1963 Oct 4 1814	Nike	-	Smoke 036	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-S480	2438310.33	1963 Oct 7 2000	Nike Apache	-	NASA 14.36DI	0.000	GSFC	SS	-	BRL/Zancanata	Magnetospheric	WDCRF	-	-
1963-A143	2438312.35	1963 Oct 9 2030	Nike	-	Smoke 371	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S481	2438312.47	1963 Oct 9 2314	Nike Apache	-	NASA 14.102NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WDCRF	-	-
1963-S483	2438313.47	1963 Oct 10 2313	Nike Apache	-	NASA 14.103NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WDCRF	-	-
1963-A145	2438314.26	1963 Oct 11 1809	Nike	-	Smoke 037	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A147	2438318.32	1963 Oct 15 1938	Nike	-	Smoke 038	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A149	2438325.30	1963 Oct 22 1917	Nike	-	Smoke 372	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S634	2438330.64	1963 Oct 28 0315	Nike Javelin	-	-	0.000	APGC	SS	-	APGC/	Test	AFETR6069	-	-
1963-A153	2438333.31	1963 Oct 30 1930	Nike	-	Smoke 374	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S528	2438334.25	1963 Oct 31 1800	Nike Cajun	-	AC6.341	0.000	AFCRL	SS	-	AFCRL/Narcisi	Ionos	AnnalesGeo22,225	WDCRF	-
1963-A161	2438334.35	1963 Oct 31 2030	Nike	-	Smoke 373	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S529	2438334.39	1963 Oct 31 2117	Nike Apache	-	NASA 14.111GT	0.000	GSFC	SS	-	GSFC/Williams	Test	TM-X-55494	-	-
1963-S536	2438337.92	1963 Nov 4 1000	Nike Apache	-	Sphere	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	WDCRF	SR5,1039	-
1963-S537	2438337.94	1963 Nov 4 1031	Nike Cajun	-	Falling Sphere 5	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-S538	2438338.02	1963 Nov 4 1226	Nike Cajun	-	Falling Sphere 6	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-S540	2438338.50	1963 Nov 5 0000	Nike Cajun	-	Sphere	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	WDCRF	SR5,1039	-
1963-S543	2438339.50	1963 Nov 6	Nike Cajun	-	Mass spectrometer	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeronomy	WDCRF	-	-
1963-A163	2438340.31	1963 Nov 6 1930	Nike	-	Smoke 375	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S546	2438343.18	1963 Nov 9 1626	Nike Cajun	-	Falling Sphere 7	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-A167	2438346.35	1963 Nov 12 2020	Nike	-	Smoke 039	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1963-A168	2438347.34	1963 Nov 13 2011	Nike	-	Smoke 376	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S555	2438348.12	1963 Nov 14 1458	Nike Cajun	-	Falling Sphere 8	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-A170	2438349.31	1963 Nov 15 1933	Nike	-	Smoke 377	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S562	2438354.50	1963 Nov 21	Nike Tomahawk	9a	Sandia 152-7	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1963-S563	2438355.04	1963 Nov 21 1255	Nike Apache	-	NASA 14.128IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy	WDCRF	-	-
1963-A175	2438355.31	1963 Nov 21 1930	Nike	-	Smoke 378	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S565	2438356.38	1963 Nov 22 2100	Nike Tomahawk	9a	Sandia 152-9	0.000	SAND	SS	-	SAND/	Test	SRctCon67-402	FDS	-
1963-S568	2438360.26	1963 Nov 26 1816	Nike Apache	-	NASA 14.10UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1963-S569	2438360.28	1963 Nov 26 1844	Nike Cajun	-	NASA 10.131UA	0.000	GSFC	SS	-	UMI/Hansen	Aeronomy	WDCRF	-	-
1963-S577	2438363.50	1963 Dec	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A182	2438369.35	1963 Dec 5 2025	Nike	-	Smoke 379	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1963-S587	2438371.05	1963 Dec 7 1311	Nike Cajun	-	NASA 10.55GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1963-S588	2438371.07	1963 Dec 7 1343:00	Nike Apache	-	NASA 14.21UA	0.000	GSFC	SS	-	UMI/Theon	Aeronomy	WDCRF	-	-
1963-S590	2438372.73	1963 Dec 9 0524	Astrobee 200	-	AC15.610	0.000	AFCRL	SF	U	ASE/Reidy	Aeron/Auroral	FC	WDCRF	-
1963-M53	2438377.44	1963 Dec 13 2232	Nike Apache	-	NASA 14.37GI	0.000	GSFC	SF	U	GSFC/LUX/Whipple	Solar X/Ionos	WDCRF	-	-
1963-S607	2438381.50	1963 Dec 18	Nike Cajun	-	Falling Sphere 9	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-S608	2438381.50	1963 Dec 18	Nike Cajun	-	Falling Sphere 10	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1963-A187	2438384.23	1963 Dec 20 1730	Nike	-	Smoke 380	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4880	-	-
1964-S09	2438394.50	1964 Jan	Nike Apache	-	BMTS	0.000	WSMR	MS	-	-	Target	WSMR	-	-
1964-S10	2438394.50	1964 Jan	Nike Apache	-	BMTS	0.000	WSMR	MS	-	-	Target	WSMR	-	-
1964-S19	2438403.05	1964 Jan 8 1315	Nike Apache	-	NASA 14.129IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy Na	WDCRF	-	-
1964-S25	2438406.52	1964 Jan 12 0026	Nike Apache	-	NASA 14.130IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy Na	WDCRF	-	-
1964-S28	2438408.50	1964 Jan 14	Nike Tomahawk	9a	Sandia 152-21	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1964-S32	2438409.60	1964 Jan 15 0231	Nike Apache	-	NASA 14.150UE Sammy	0.000	GSFC	SS	-	RICE/O'Brien	Airglow	WDCRF	-	-
1964-A04	2438410.44	1964 Jan 15 2234	Nike Apache	-	NASA 14.38CA	0.000	GSFC	SF	U	GCA/Smith	Aeronomy	WDCRF	-	-
1964-S33	2438410.44	1964 Jan 15 2240	Nike Apache	-	NASA 14.106CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-S37	2438410.71	1964 Jan 16 0500	Nike Apache	-	NASA 14.125CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-S38	2438410.98	1964 Jan 16 1134	Nike Apache	-	NASA 14.126CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-A07	2438417.29	1964 Jan 22 1852	Nike	-	Smoke 381	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A08	2438417.35	1964 Jan 22 2027	Nike	-	Smoke 040	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S48	2438418.27	1964 Jan 23 1825	Nike Cajun	-	Falling Sphere 11	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-A09	2438417.50	1964 Jan 23	Nike Tomahawk	12	Sandia 152-11	0.000	SAND	SF	U	LRL/	Test	FDS	-	-
1964-S49	2438418.51	1964 Jan 24 0016	Nike Cajun	-	NASA 10.61GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-A10	2438418.52	1964 Jan 24 0036	Nike Cajun	-	NASA 10.86GA	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	FC/WI-PR64-7	WDCRF	-
1964-A11	2438419.29	1964 Jan 24 1900	Nike	-	Smoke 382	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S51	2438419.72	1964 Jan 25 0514	Nike Apache	-	NASA 14.79UE UNH64-1	0.000	GSFC	SS	-	UNH/Cahill	Magnetospheric	CR-78234	-	-
1964-S54	2438421.69	1964 Jan 27 0430	Nike Apache	-	NASA 14.80UE UNH64-2	0.000	GSFC	SS	-	UNH/Cahill	Magnetospheric	CR-78234	-	-
1964-S56	2438422.50	1964 Jan 28	Nike Tomahawk	9a	Sandia 152-8	0.000	SAND	SS	-	SAND/	Test/Aeron	FDS	-	-
1964-S60	2438423.67	1964 Jan 29 0411	Nike Cajun	-	NASA 10.71GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S63	2438423.68	1964 Jan 29 0417	Nike Cajun	-	NASA 10.89GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WI-PR64-11	-	-
1964-S61	2438423.68	1964 Jan 29 0418	Nike Cajun	-	NASA 10.81GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S62	2438423.92	1964 Jan 29 1000	Nike Apache	-	NASA 14.81UE UNH64-3	0.000	GSFC	SS	-	UNH/Cahill	Magnetospheric	CR-78234	-	-
1964-A15	2438424.30	1964 Jan 29 1919	Nike	-	Smoke 041	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S67	2438426.06	1964 Jan 31 1330	Nike Apache	-	NASA 14.82UE UNH64-4	0.000	GSFC	SS	-	UNH/Cahill	Magnetospheric	CR-78234	-	-
1964-S822	2438427.50	1964 Feb 2	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith,LB	Aeron	SandNews640327	-	-
1964-S823	2438429.50	1964 Feb 4?	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith,LB	Aeron	SandNews640327	-	-
1964-S76	2438429.57	1964 Feb 4 0135:00	Nike Apache	-	NASA 14.22UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1964-S73	2438429.57	1964 Feb 4 0146	Nike Cajun	-	NASA 10.62GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	SP-4401	-	-
1964-A17	2438430.26	1964 Feb 4 1820	Nike	-	Smoke 042	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S77	2438430.53	1964 Feb 5 0039	Nike Cajun	-	NASA 10.87GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S78	2438430.64	1964 Feb 5 0320	Nike Cajun	-	NASA 10.63GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S824	2438431.50	1964 Feb 6?	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith,LB	Aeron	SandNews640327	-	-
1964-S825	2438432.50	1964 Feb 7	Nike Apache	-	Sandia	0.000	SAND	SS	-	SAND/Smith,LB	Aeron	SandNews640327	-	-
1964-S89	2438438.35	1964 Feb 12 2030	Nike Apache	-	NASA 14.28GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	WDCRF	-	-
1964-S93	2438438.69	1964 Feb 13 0429	Nike Cajun	-	NASA 10.88GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S94	2438438.69	1964 Feb 13 0430	Nike Cajun	-	NASA 10.136GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S95	2438438.70	1964 Feb 13 0455	Nike Cajun	-	NASA 10.82GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S104	2438444.41	1964 Feb 18 2150	Nike Apache	-	ERDA 004	0.000	USAF/ERDA	SS	-	AFCRL/Faire	Aeron	AFCRL	SR5,1039	-
1964-A26	2438445.38	1964 Feb 19 2100	Nike	-	Smoke 383	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S106	2438445.40	1964 Feb 19 2130	Nike Cajun	-	ERDA 005	0.000	USAF/ERDA	SS	-	AFCRL/Faire	Aeron	AFCRL	SR5,1039	-
1964-S112	2438445.81	1964 Feb 20 0723	Nike Apache	-	NASA 14.43GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	WDCRF	-	-
1964-A27	2438446.27	1964 Feb 20 1830	Nike	-	Smoke 384	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A29	2438452.37	1964 Feb 26 2055	Nike	-	Smoke 385	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S126	2438454.73	1964 Feb 29 0532	Nike Apache	-	NASA 14.44GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	WDCRF	-	-
1964-S124	2438454.50	1964 Mar	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1964-S134	2438461.61	1964 Mar 7 0245	Nike Cajun	-	NASA 10.137GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S142	2438466.25	1964 Mar 11 1800	Nike Cajun	-	AC6.342	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Ionos	WDCRF	AnnalesGeo22,225	-
1964-U01	2438466.68	1964 Mar 12 0417	Nike Cajun	-	Meteor 2/3	0.000	LARCN	SS	-	LARC/Ayers	Test	SAO-SR317	-	-
1964-S144	2438466.62	1964 Mar 12 0258:40	Nike Apache	-	Ferdinand 6	0.000	NDRE	SS	-	GSFC/NDRE/Kane,Maehlum	Auroral/Plasma/Solar	SR8-195	WDCRF	-
1964-S148	2438468.26	1964 Mar 13 1820	Nike Cajun	-	Falling Sphere 12	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-A35	2438468.27	1964 Mar 13 1830	Nike	-	Smoke 386	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A36	2438468.27	1964 Mar 13 1836	Nike	-	Smoke 043	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S151	2438469.61	1964 Mar 15 0244	Nike Apache	-	Ferdinand 7	0.000	NDRE	SS	-	GSFC/BERG/Kane,Soraas	Ionos/Plasma	WDCRF	-	-
1964-A38	2438472.32	1964 Mar 17 1940	Nike	-	Smoke 044	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S156	2438472.50	1964 Mar 18	Nike Tomahawk	9	Sandia 152-45	0.000	SAND	SS	-	SAND/	Test/Aeron	FDS	-	-
1964-S157	2438472.76	1964 Mar 18 0611	Nike Apache	-	NASA 14.151UE	0.000	GSFC	SS	-	RICE/O'Brien	Auroral	WDCRF	-	-
1964-A39	2438473.27	1964 Mar 18 1830	Nike	-	Smoke 387	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S158	2438474.15	1964 Mar 19 1542	Nike Apache	-	Ferdinand 8	0.000	NDRE	SS	-	NDRE/BERG/Troim,Soraas	Ionos/Plasma/Solar	WDCRF	-	-
1964-S160	2438474.72	1964 Mar 20 0523	Nike Apache	-	NASA 14.152UE	0.000	GSFC	SS	-	RICE/O'Brien	Auroral	WDCRF	-	-
1964-A40	2438475.34	1964 Mar 20 2005	Nike	-	Smoke 388	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A42	2438477.50	1964 Mar 23	Nike Tomahawk	12	Sandia 152-12	0.000	SAND	SF	U	LRL/	Test/Aeron	FDS	-	-
1964-S163	2438477.94	1964 Mar 23 1037	Nike Apache	-	NASA 14.153UE	0.000	GSFC	SS	-	RICE/O'Brien	Auroral	WDCRF	-	-
1964-S166	2438478.68	1964 Mar 24 0422:54	Nike Apache	-	NASA 14.118GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	TM-X-55447	WDCRF	-
1964-S167	2438479.50	1964 Mar 25	Nike Apache	-	-	0.000	CRA	SS	-	CRA/	Test	TM-X-72628	-	-
1964-S169	2438479.64	1964 Mar 25 0325	Nike Apache	-	NASA 14.120GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	WDCRF	-	-
1964-S172	2438480.65	1964 Mar 26 0330	Nike Apache	-	NASA 14.119GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	WDCRF	-	-
1964-A45	2438482.29	1964 Mar 27 1904	Nike	-	Smoke 046	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S176	2438484.50	1964 Mar 30	Nike Apache	-	-	0.000	CRA	SS	-	CRA/	Test	CR-111987	-	-
1964-S175	2438485.61	1964 Mar 31 0233:30	Nike Javelin	-	-	0.000	APGC	SS	-	APGC/	Test	Wire	SP-4005	-
1964-A47	2438486.27	1964 Mar 31 1830	Nike	-	Smoke 389	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S179	2438485.50	1964 Apr	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-A48	2438487.27	1964 Apr 1 1830	Nike	-	Smoke 390	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S185	2438487.50	1964 Apr 2	Nike Apache	-	-	0.000	CRA	SS	-	CRA/	Test	TM-X-72628	-	-
1964-A49	2438489.25	1964 Apr 3 1800	Nike	-	Smoke 391	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S196	2438495.10	1964 Apr 9 1422	Nike Apache	-	NASA 14.134IA	0.000	GSFC	SS	-	SUPA/Mehmud	Aeronomy	WDCRF	-	-
1964-A51	2438495.40	1964 Apr 9 2129	Nike	-	Smoke 047	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S198	2438496.77	1964 Apr 11 0629	Nike Apache	-	NASA 14.121GE	0.000	GSFC	SS	-	UAF/Murray	Auroral	FC	WDCRF	FC:0410:0630
1964-A53	2438499.32	1964 Apr 13 1945	Nike	-	Smoke 392	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S208	2438500.56	1964 Apr 15 0121:42	Nike Apache	-	NASA 14.24UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	Horvath72	-	-
1964-S209	2438501.16	1964 Apr 15 1556:00	Nike Apache	-	NASA 14.23UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	Horvath72	-	-
1964-S206	2438501.78	1964 Apr 16 0639	Nike Apache	-	NASA 14.122GE	0.000	GSFC	SS	-	UAF/Murray	Auroral	FC	WDCRF	FC:0414:0640
1964-S212	2438502.38	1964 Apr 16 2105:00	Nike Apache	-	NASA 14.143UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos	CR-68050	WDCRF	-
1964-A55	2438503.28	1964 Apr 17 1844	Nike	-	Smoke 048	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S214	2438503.47	1964 Apr 17 2315	Nike Cajun	-	NASA 10.142GA	0.000	GSFC	SS	-	UMI/Dubin	Aeronomy	WDCRF	-	-
1964-S215	2438503.53	1964 Apr 18 0038	Nike Cajun	-	NASA 10.73GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S216	2438503.54	1964 Apr 18 0059	Nike Cajun	-	NASA 10.83GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S787	2438507.50	1964 Apr 22	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1964-S222	2438507.79	1964 Apr 22 0654	Nike Apache	-	NASA 14.123GE	0.000	GSFC	SS	-	UAF/Murray	Auroral	WDCRF	-	-
1964-A58	2438508.33	1964 Apr 22 2000	Nike	-	Smoke 393	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S229	2438515.50	1964 May	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S230	2438515.50	1964 May	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-A62	2438520.26	1964 May 4 1815	Nike	-	Smoke 049	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A63	2438521.23	1964 May 5 1734	Nike	-	Smoke 050	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A64	2438522.26	1964 May 6 1818	Nike	-	Smoke 051	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A65	2438522.28	1964 May 6 1843	Nike	-	Smoke 052	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S234	2438522.60	1964 May 07 0231:00	Nike Cajun	?	-	0.000	PMR	SU	-	PMR/	Aeron	WDCRF	-	-
1964-S239	2438527.50	1964 May 12	Nike Tomahawk	9	Sandia 152-52	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S240	2438527.98	1964 May 12 1125	Nike Cajun	-	Falling Sphere 13	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-S789	2438529.50	1964 May 14	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1964-S242	2438529.50	1964 May 14	Nike Tomahawk	9	Sandia 152-50	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S801	2438530.50	1964 May 15	Nike Cajun	-	Falling sphere	0.000	PMR	SS	-	PMR/	Aeron	PMRHist64	-	-
1964-S246	2438530.50	1964 May 15	Nike Tomahawk	9	Sandia 152-51	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S250	2438533.50	1964 May 18	Nike Tomahawk	9	Sandia 152-46	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S251	2438533.76	1964 May 18 0620	Nike Apache	-	AE5.479	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Test	WDCRF	-	-
1964-S252	2438533.76	1964 May 18 0620	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-S253	2438534.27	1964 May 18 1835	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-S254	2438534.78	1964 May 19 0645	Nike Apache	-	AE5.481 -	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Test	WDCRF	-	-
1964-S255	2438535.25	1964 May 19 1800	Nike Apache	-	AE5.482 -	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Test	WDCRF	-	-
1964-A70	2438535.27	1964 May 19 1822	Nike	-	Smoke 053	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S256	2438535.50	1964 May 20	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Soberman	Aeron	WDCRF	-	-
1964-S257	2438535.50	1964 May 20	Nike Tomahawk	12	Sandia 152-22	0.000	SAND	SS	-	SAND/	Test?	FDS	-	-
1964-A71	2438536.27	1964 May 20 1830	Nike	-	Smoke 394	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S260	2438536.50	1964 May 21	Nike Tomahawk	9a	Sandia 152-10	0.000	SAND	SS	-	SAND/	Aeron	FDS	-	-
1964-A73	2438537.27	1964 May 21 1830	Nike	-	Smoke 395	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A74	2438538.32	1964 May 22 1943	Nike	-	Smoke 054	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S263	2438540.50	1964 May 25	Nike Tomahawk	9	Sandia 152-28	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-A75	2438541.34	1964 May 25 2005	Nike	-	Smoke 396	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S266	2438542.50	1964 May 27	Nike Tomahawk	9	Sandia 152-30	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-A76	2438543.31	1964 May 27 1930	Nike	-	Smoke 397	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A77	2438543.59	1964 May 28 0215	Nike Apache	-	NASA 14.54DA	0.000	GSFC	SF	U	AFCRL/Soberman	Aeronomy	WDCRF	-	-
1964-S273	2438546.50	1964 Jun	Nike Apache	-	Capache	0.000	WSMR	MS	-	-	Aeron?	WSMR	-	-
1964-S275	2438546.50	1964 Jun	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S807	2438546.50	1964 Jun	Nike Apache	-	ARPA PRESS	0.000	PMR	SS	-	PMR/	Aeron	PMRHist65	-	-
1964-S808	2438546.50	1964 Jun	Nike Apache	-	ARPA PRESS	0.000	PMR	SS	-	PMR/	Aeron	PMRHist65	-	-
1964-S274	2438550.50	1964 Jun 4	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL?/	Ionos	Ulrich/AP	-	-
1964-S820	2438551.50	1964 Jun 5	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL?/	Ionos	Ulrich/AP	-	-
1964-A210	2438551.50	1964 Jun 5	Nike Apache	-	ARPA PRESS	0.000	AFCRL	SF	U	AFCRL?/	Ionos	Ulrich/AP	-	-
1964-S278	2438550.28	1964 Jun 3 1845	Nike Apache	-	NASA 14.33GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	WDCRF	-	-
1964-A81	2438556.29	1964 Jun 9 1900	Nike	-	Smoke 398	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S287	2438556.71	1964 Jun 10 0503	Astrobee 200	-	CRL AC15.373	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	WDCRF	-	-
1964-S289	2438557.13	1964 Jun 10 1510:00	Nike Apache	-	NASA 14.155GE	0.000	GSFC	SS	-	GSFC/Davis	Magnetospheric	TM-X-56564	SR6,453	-
1964-A82	2438557.26	1964 Jun 10 1815	Nike	-	Smoke 399	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A84	2438558.27	1964 Jun 11 1834	Nike	-	Smoke 055	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A85	2438559.29	1964 Jun 12 1900	Nike	-	Smoke 400	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-A88	2438562.29	1964 Jun 15 1900	Nike	-	Smoke 401	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S297	2438563.54	1964 Jun 17 0101	Nike Cajun	-	Falling Sphere 14	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-A90	2438564.29	1964 Jun 17 1900	Nike	-	Smoke 402	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S299	2438564.60	1964 Jun 18 0219	Nike Cajun	-	Falling Sphere 15	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-S301	2438565.19	1964 Jun 18 1630	Nike Cajun	-	Falling Sphere 16	0.000	PMR	SS	-	UMI/Peterson	Aeronomy	CR-218	WDCRF	-
1964-S302	2438565.56	1964 Jun 19 0129	Nike Cajun	-	PMR-15	0.000	PMR	SS	-	PMR/	Aeronomy	WDCRF	-	-
1964-S304	2438566.15	1964 Jun 19 1540	Nike Cajun	-	PMR-16	0.000	PMR	SS	-	PMR/	Aeronomy	WDCRF	-	-
1964-S310	2438572.12	1964 Jun 25 1457:39	Nike Apache	-	NASA 14.156GE	0.000	GSFC	SS	-	GSFC/Davis	Magnetospheric	TM-X-56564	WDCRF	-
1964-S311	2438572.54	1964 Jun 26 0052:30	Nike Apache	-	NASA 14.157GE	0.000	GSFC	SS	-	GSFC/Davis	Magnetospheric	TM-X-56564	WDCRF	-
1964-S314	2438575.50	1964 Jun 29	Nike Tomahawk	9	Sandia 152-57	0.000	SAND	SF	U	SAND/	Aeron?	FDS	-	-
1964-S321	2438578.50	1964 Jul 2	Nike Tomahawk	9	Sandia 152-58	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S324	2438581.50	1964 Jul 05	Nike Apache	-	-	0.000	AFCRL	SU	-	AFCRL/Faire	Aeron	WDCRF	-	-
1964-S325	2438582.50	1964 Jul 6	Nike Tomahawk	9	Sandia 152-62	0.000	SAND	SS	-	SAND/	Solar?	FDS	-	-
1964-A102	2438583.32	1964 Jul 6 1945	Nike	-	Smoke 403	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S338	2438585.68	1964 Jul 9 0413	Nike Apache	-	NASA 14.154UE	0.000	GSFC	SS	-	RICE/O'Brien	Aeronomy	WDCRF	-	-
1964-S356	2438592.23	1964 Jul 15 1730	Nike Tomahawk	9	Sandia 152-18	0.000	SAND	SS	-	LRL/	Test/Tech	FDS	-	-
1964-S348	2438591.54	1964 Jul 15 0058	Nike Apache	-	NASA 14.49CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S350	2438591.67	1964 Jul 15 0409	Nike Apache	-	NASA 14.50CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S351	2438591.83	1964 Jul 15 0800	Nike Apache	-	NASA 14.144UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-68050	SR6,511	-
1964-S352	2438591.84	1964 Jul 15 0805	Nike Apache	-	NASA 14.51CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S353	2438591.88	1964 Jul 15 0906	Nike Apache	-	NASA 14.52CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S354	2438591.89	1964 Jul 15 0920	Nike Apache	-	NASA 14.145UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-68050	RadioSci1,187	-
1964-S355	2438591.93	1964 Jul 15 1025	Nike Apache	-	NASA 14.146UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-68050	-	-
1964-A106	2438592.26	1964 Jul 15 1820	Nike	-	Smoke 404	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S361	2438593.18	1964 Jul 16 1622	Nike Apache	-	NASA 14.127GI	0.000	GSFC	SS	-	GSFC/Stone	Ionos/RF Astron	WDCRF	PlanSpaSci14,631	-
1964-S368	2438593.85	1964 Jul 17 0824	Nike Apache	-	Missile compression	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Test/Aeron	WDCRF	-	-
1964-S370	2438595.02	1964 Jul 18 1222	Astrobee 200	-	CRL AC15.363	0.000	AFCRL	SS	-	AFCRL/NEU/Silverman	Aeron	FC	-	-
1964-S372	2438597.23	1964 Jul 20 1730	Nike Tomahawk	9	Sandia 152-20	0.000	SAND	SS	-	LRL/	Tech	FDS	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S373	2438597.50	1964 Jul 21	Nike Tomahawk	9	Sandia 152-31	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-S375	2438598.50	1964 Jul 22	Nike Tomahawk	9	Sandia 152-33	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-A112	2438605.25	1964 Jul 28 1800	Nike	-	Smoke 405	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S385	2438605.34	1964 Jul 28 2006	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR8-845	www.wsmr-history.org	-
1964-S388	2438605.90	1964 Jul 29 0930	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR8-845	-	-
1964-A113	2438606.25	1964 Jul 29 1800	Nike	-	Smoke 406	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6746	-	-
1964-S390	2438606.50	1964 Jul 30	Nike Tomahawk	9	Sandia 152-48	0.000	SAND	SS	-	SAND/	Aeron	FDS	-	-
1964-A115	2438607.39	1964 Jul 30 2117	Nike	-	Smoke 056	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S394	2438607.50	1964 Aug	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1964-S395	2438607.50	1964 Aug	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1964-S401	2438612.50	1964 Aug 5	Nike Tomahawk	9	Sandia 152-43	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-A117	2438612.59	1964 Aug 5 0207	Nike Cajun	-	NASA 10.114GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S406	2438614.48	1964 Aug 6 2329	Nike Apache	-	NASA 14.55DA	0.000	GSFC	SS	-	AFCRL/MISU/Soberman,Witt	Aeronomy	WDCRF	-	-
1964-S410	2438614.51	1964 Aug 7 0016	Nike Cajun	-	NASA 10.138GA	0.000	GSFC	SS	-	GSFC/MISU/Smith,Witt	Aeronomy	WDCRF	-	-
1964-S411	2438614.54	1964 Aug 7 0100	Nike Cajun	-	NASA 10.78GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S413	2438615.50	1964 Aug 8	Nike Tomahawk	9	Sandia 152-42	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1964-S414	2438615.67	1964 Aug 8 0400	Nike Cajun	-	NASA 10.104GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S420	2438619.53	1964 Aug 12 0043	Nike Apache	-	NASA 14.56DA	0.000	GSFC	SS	-	AFCRL/MISU/Soberman,Witt	Aeronomy	WDCRF	-	-
1964-S421	2438619.55	1964 Aug 12 0111	Nike Cajun	-	NASA 10.139GA	0.000	GSFC	SS	-	GSFC/MISU/Smith,Witt	Aeronomy	WDCRF	-	-
1964-S422	2438619.58	1964 Aug 12 0149	Nike Cajun	-	NASA 10.84GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S423	2438619.59	1964 Aug 12 0215	Nike Cajun	-	NASA 10.105GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-A122	2438622.45	1964 Aug 14 2254	Nike	-	Smoke 057	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S426	2438623.54	1964 Aug 16 0053	Nike Apache	-	NASA 14.57DA	0.000	GSFC	SS	-	AFCRL/MISU/Soberman,Witt	Aeronomy	WDCRF	-	-
1964-S427	2438623.55	1964 Aug 16 0113	Nike Cajun	-	NASA 10.140GA	0.000	GSFC	SS	-	GSFC/MISU/Smith,Witt	Aeronomy	WDCRF	-	-
1964-S428	2438623.64	1964 Aug 16 0315	Nike Cajun	-	NASA 10.85GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S429	2438623.75	1964 Aug 16 0553	Nike Cajun	-	NASA 10.115GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S431	2438624.52	1964 Aug 17 0029	Nike Apache	-	NASA 14.58DA	0.000	GSFC	SS	-	AFCRL/MISU/Soberman,Witt	Aeronomy	WDCRF	-	-
1964-S432	2438624.53	1964 Aug 17 0049	Nike Cajun	-	NASA 10.141GA	0.000	GSFC	SS	-	GSFC/MISU/Smith,Witt	Aeronomy	WDCRF	-	-
1964-S433	2438625.04	1964 Aug 17 1255	Nike Cajun	-	NASA 10.116GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S434	2438625.55	1964 Aug 18 0115	Nike Cajun	-	NASA 10.106GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S435	2438625.56	1964 Aug 18 0125	Nike Cajun	-	NASA 10.113GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-A123	2438627.26	1964 Aug 19 1811	Nike	-	Smoke 058	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S443	2438633.50	1964 Aug 26	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/Harvey	Aeron	WDCRF	-	-
1964-S445	2438634.21	1964 Aug 26 1701	Nike Apache	-	NASA 14.34GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	TM-X-55318	-	-
1964-S449	2438638.50	1964 Sep	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1964-S450	2438638.50	1964 Sep	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1964-S451	2438638.50	1964 Sep	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S452	2438638.50	1964 Sep	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-A129	2438642.27	1964 Sep 3 1836	Nike	-	Smoke 059	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A130	2438643.21	1964 Sep 4 1701	Nike	-	Smoke 060	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S453	2438643.50	1964 Sep 5	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-A132	2438648.23	1964 Sep 9 1735	Nike	-	Smoke 061	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A133	2438654.25	1964 Sep 15 1758	Nike	-	Smoke 062	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S474	2438657.23	1964 Sep 18 1725	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Ulwick	Test/Aeron/Ionos	AFCRL2	WDCRF	-
1964-S797	2438662.50	1964 Sep 24	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target?	dtic	-	-
1964-A137	2438664.34	1964 Sep 25 2012	Nike	-	Smoke 063	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S798	2438668.50	1964 Sep 30	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target?	dtic	-	-
1964-S495	2438669.50	1964 Oct 1	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target?	dtic	-	-
1964-S507	2438676.46	1964 Oct 7 2304	Nike Apache	-	NASA 14.195CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	CR-68050	GCA-TR-67-11-N	-
1964-S776	2438676.47	1964 Oct 7 2319	Nike Apache	-	NASA 14.158GE	0.000	GSFC	SS	-	GSFC/Davis	Magnetospheric	WDCRF	-	-
1964-S510	2438676.93	1964 Oct 8 1023	Nike Apache	-	NASA 14.194CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	CR-68050	GCA-TR-67-11-N	-
1964-S511	2438676.94	1964 Oct 8 1034:00	Nike Apache	-	NASA 14.159GE	0.000	GSFC	SS	-	GSFC/Davis	Magnetospheric	TM-X-56564	WDCRF	-
1964-A151	2438682.31	1964 Oct 13 1926	Nike	-	Smoke 064	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S525	2438685.95	1964 Oct 17 1043	Nike Apache	-	AE5.487	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-S526	2438685.95	1964 Oct 17 1045	Nike Javelin	-	-	0.000	APGC?	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	MR641123-24	-
1964-A157	2438691.21	1964 Oct 22 1656	Nike	-	Smoke 065	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S538	2438692.69	1964 Oct 24 0433	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	IQSYInterim1	WDCRF	-
1964-S542	2438696.21	1964 Oct 27 1657	Nike Cajun	-	AB6.197	0.000	AFCRL	SS	-	AFCRL/Fowler,Sandock	Auroral/Ionos	WDCRF	-	-
1964-S543	2438695.81	1964 Oct 27 0725	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	IQSYInterim1	WDCRF	-
1964-A160	2438699.27	1964 Oct 30 1828	Nike	-	Smoke 066	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S555	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S556	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S557	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S558	2438699.50	1964 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S561	2438700.72	1964 Nov 1 0510	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	IQSYInterim1	WDCRF	-
1964-S560	2438700.75	1964 Nov 1 0600	Nike Apache	-	NASA 14.197CA	0.000	GSFC	SS	-	GSFC/GCA/Opp,Smith	Aeronomy	WDCRF	GCA-TR-67-11-N	-
1964-S562	2438700.76	1964 Nov 1 0618	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	IQSYInterim1	WDCRF	-
1964-S569	2438702.69	1964 Nov 3 0432	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	IQSYInterim1	WDCRF	-
1964-S568	2438702.92	1964 Nov 3 1002	Nike Apache	-	AE5.550	0.000	AFCRL	SS	-	AFCRL/Sagalyn,Faire	Aeron/Ionos	WDCRF	SR6,1048	-
1964-S570	2438703.23	1964 Nov 3 1738	Nike Cajun	-	NASA 10.132GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S582	2438705.21	1964 Nov 5 1700	Nike Cajun	-	NASA 10.107GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S584	2438705.36	1964 Nov 5 2038	Nike Apache	-	NASA 14.104DI	0.000	GSFC	SS	-	BRL/Zanacanta	Ionos/Fields	WDCRF	-	-
1964-S589	2438705.50	1964 Nov 6	Nike Tomahawk	9	Sandia 152-59	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S592	2438705.50	1964 Nov 6 0002	Nike Cajun	-	NASA 10.133GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1964-S593	2438705.51	1964 Nov 6 0008	Nike Apache	-	NASA 14.131IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy Na	WDCRF	-	-
1964-S594	2438705.72	1964 Nov 6 0520	Nike Cajun	-	NASA 10.134GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S596	2438705.92	1964 Nov 6 1000	Nike Cajun	-	NASA 10.135GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1964-S599	2438706.72	1964 Nov 7 0513	Nike Apache	-	NASA 14.105DI	0.000	GSFC	SS	-	BRL/Zanacanta	Ionos	WDCRF	-	-
1964-U05	2438706.57	1964 Nov 7 0138	Nike Cajun	-	Meteor 4/5	0.000	LARCN	SS	-	LARC/	Test	SAO-SR317	TN-D-3930	-
1964-S604	2438708.50	1964 Nov 9	Nike Tomahawk	9	Sandia 152-67	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S605	2438709.04	1964 Nov 9 1254	Nike Apache	-	NASA 14.204IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy Na	WDCRF	-	-
1964-S606	2438709.50	1964 Nov 10	Nike Apache	-	-	0.000	APGC	SS	-	APGC/	Aeron?	JCM	-	-
1964-S607	2438709.50	1964 Nov 10	Nike Apache	-	-	0.000	APGC	SS	-	APGC/	Aeron?	JCM	-	-
1964-S608	2438709.50	1964 Nov 10 0005	Nike Apache	-	NASA 14.205IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy Na	WDCRF	-	-
1964-S610	2438709.96	1964 Nov 10 1107	Nike Apache	-	NASA 14.147UI	0.000	GSFC	SS	-	UIUC/	Ionos	WDCRF	-	-
1964-S611	2438710.43	1964 Nov 10 2225	Nike Apache	-	NASA 14.114CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S612	2438710.44	1964 Nov 10 2228	Nike Apache	-	NASA 14.53CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-M27	2438710.48	1964 Nov 10 2326	Nike Apache	-	AE5.551 IQSY	0.000	AFCRL	SS	-	AFCRL/Faire,Sagalyn	Aeron	WDCRF	-	-
1964-S613	2438710.55	1964 Nov 11 0119	Nike Apache	-	AE5.552 IQSY	0.000	AFCRL	SS	-	AFCRL/Faire,Sagalyn	Aeron	WDCRF	-	-
1964-S615	2438711.43	1964 Nov 11 2224	Nike Apache	-	NASA 14.115CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-S616	2438711.44	1964 Nov 11 2227	Nike Apache	-	NASA 14.112CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1964-S553	2438711.50	1964 Nov 12	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S619	2438711.95	1964 Nov 12 1053	Nike Apache	-	NASA 14.116CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S620	2438711.96	1964 Nov 12 1056	Nike Apache	-	NASA 14.113CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1964-S622	2438712.50	1964 Nov 13	Nike Tomahawk	9	Sandia 152-65	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-A171	2438713.34	1964 Nov 13 2010	Nike	-	Smoke 068	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S629	2438717.24	1964 Nov 17 1749	Nike Apache	-	NASA 14.233UA	0.000	GSFC	SS	-	UMI/Hansen	Aeronomy	WDCRF	-	-
1964-S630	2438717.38	1964 Nov 17 2110	Nike Cajun	-	NASA 10.153GA	0.000	GSFC	SS	-	UMI/Hansen	Aeronomy	WDCRF	-	-
1964-S631	2438717.50	1964 Nov 18	Nike Tomahawk	9	Sandia 152-66	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1964-S634	2438717.97	1964 Nov 18 1123:00	Nike Apache	-	-	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-S638	2438718.73	1964 Nov 19 0534	Nike Apache	-	AE5.490	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-A173	2438719.27	1964 Nov 19 1834	Nike Apache	-	NASA 14.29GA	0.000	GSFC	SF	U	UMI/Horvath	Aeronomy	WDCRF	-	-
1964-S640	2438719.29	1964 Nov 19 1902	Nike Cajun	-	NASA 10.117GA	0.000	GSFC	SS	-	GSFC/Smith,Donley	Aeronomy	WDCRF	-	-
1964-S641	2438719.35	1964 Nov 19 2020	Nike Apache	-	NASA 14.149UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith.L	Ionos	WDCRF	-	-
1964-S642	2438719.42	1964 Nov 19 2202	Nike Apache	-	NASA 14.148UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith.L	Ionos	WDCRF	-	-
1964-S643	2438719.49	1964 Nov 19 2343	Nike Apache	-	AE5.491 IQSY	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1964-S644	2438720.50	1964 Nov 21	Nike Tomahawk	9	Sandia 115-5	0.000	SAND	SS	-	SAND/	Aeron	FDS	-	-
1964-S645	2438722.19	1964 Nov 22 1630	Nike Cajun	-	AD6.811	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1964-S646	2438723.21	1964 Nov 23 1707	Nike Apache	-	NASA 14.117GI	0.000	GSFC	SS	-	GSFC/Bauer	Ionos	TM-X-55318	WDCRF	-
1964-A174	2438723.50	1964 Nov 24	Nike Javelin	-	-	0.000	APGC	SF	U	APGC/	Aeron?	TM-X-55549	-	-
1964-S647	2438723.50	1964 Nov 24	Nike Tomahawk	9	Sandia 115-6	0.000	SAND	SS	-	SAND/	Aeron	FDS	-	-
1964-A175	2438724.26	1964 Nov 24 1810	Nike	-	Smoke 069	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S554	2438724.50	1964 Nov 25	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S650	2438727.06	1964 Nov 27 1331	Nike Iroquois	-	AE07.312	0.000	AFCRL	SS	-	AFCRL/Hoult	Test	WDCRF	-	-
1964-S654	2438729.50	1964 Nov 30	Nike Tomahawk	9	Sandia 152-71	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1964-S659	2438730.05	1964 Nov 30 1311	Nike Apache	-	NASA 14.135IA	0.000	GSFC	SS	-	SUPA/Mehmud	Aeronomy	WDCRF	SR7-962	-
1964-S655	2438729.50	1964 Dec	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1964-S656	2438729.50	1964 Dec	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S657	2438729.50	1964 Dec	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeronomy	WSMR	-	-
1964-S661	2438730.50	1964 Dec 1	Nike Tomahawk	9	Sandia 152-55	0.000	SAND	SF	U	SAND/	Test?	FDS	-	-
1964-S662	2438730.56	1964 Dec 1 0120	Nike Apache	-	NASA 14.136IA	0.000	GSFC	SS	-	SUPA/Mehmud	Aeronomy	WDCRF	SR7-962	-
1964-S663	2438730.68	1964 Dec 1 0420	Nike Cajun	-	ION 64-1	0.000	CNIE	SS	-	TUC/Radicella	Ionos	WDCRF	-	-
1964-A178	2438731.37	1964 Dec 1 2053	Nike	-	Smoke 070	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-S669	2438734.25	1964 Dec 4 1806	Nike Cajun	-	ION 64-2	0.000	CNIE	SS	-	TUC/Radicella	Ionos	WDCRF	-	-
1964-S671	2438737.25	1964 Dec 7 1756	Nike Apache	-	NASA 14.60UE	0.000	GSFC	SS	-	UNH/Lockwood	Magnetospheric	WDCRF	-	-
1964-A181	2438738.26	1964 Dec 8 1813	Nike	-	Smoke 071	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-4365	-	-
1964-A185	2438741.25	1964 Dec 11 1800	Aerobee 350	-	NASA 12.02GT	0.000	GSFC	SS	-	GSFC/Lane	Test	SRctCon67-54	TM-X-55549	-
1964-S686	2438746.12	1964 Dec 16 1457	Nike Apache	-	NASA 14.209GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	-	-
1964-S690	2438747.33	1964 Dec 17 1954:00	Nike Cajun	?	-	0.000	PMR	SU	-	PMR/	Aeron	WDCRF	-	-
1965-A177	2438760.50	1965?	Nike Cajun	-	Sandia 276-1	0.000	SAND	SF	U	SAND/Pepper	Parachute test	JScR6,495	-	-
1965-S06	2438760.50	1965 Jan	Nike Apache	-	BMTS	0.000	WSMR	MS	-	-	Aeronomy	WDCRF	-	-
1965-S07	2438760.50	1965 Jan	Nike Apache	-	BMTS	0.000	WSMR	MS	-	-	Aeronomy	WDCRF	-	-
1965-A06	2438766.33	1965 Jan 5 2000	Nike	-	Smoke 072	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S29	2438767.66	1965 Jan 7 0350	Nike Apache	-	NASA 14.142NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WDCRF	-	-
1965-A10	2438775.26	1965 Jan 14 1819	Nike	-	Smoke 074	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-A12	2438782.26	1965 Jan 21 1811	Nike	-	Smoke 075	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S50	2438787.50	1965 Jan 27	Nike Tomahawk	9a	Sandia 152-23	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1965-S51	2438788.40	1965 Jan 27 2132	Nike Cajun	-	NASA 10.124GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WI-PR-65-4	-	-
1965-S52	2438788.43	1965 Jan 27 2224	Nike Cajun	-	NASA 10.118GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WI-PR-65-4	-	-
1965-S55	2438788.43	1965 Jan 27 2224	Nike Cajun	-	NASA 10.121GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WI-PR-65-4	FC	-
1965-S60	2438791.50	1965 Feb	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S61	2438791.50	1965 Feb	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S62	2438791.50	1965 Feb	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-S69	2438793.50	1965 Feb 2	Nike Javelin	-	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-A21	2438794.33	1965 Feb 2 1953	Nike	-	Smoke 076	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S73	2438795.26	1965 Feb 3 1808	Nike Apache	-	NASA 14.61UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	-	-
1965-S74	2438795.70	1965 Feb 4 0445	Nike Cajun	-	NASA 10.125GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	SP-4006	-
1965-S75	2438795.72	1965 Feb 4 0510	Nike Cajun	-	NASA 10.119GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S76	2438796.23	1965 Feb 4 1734	Nike Cajun	-	NASA 10.122GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-A23	2438797.35	1965 Feb 5 2029	Nike	-	Smoke 077	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S83	2438797.93	1965 Feb 6 1019	Nike Cajun	-	AP6.850	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S86	2438800.43	1965 Feb 8 2215	Nike Cajun	-	NASA 10.126GA	0.000	GSFC	SS	-	GSFC/Smith,Theon	Aeronomy	WDCRF	-	-
1965-S87	2438800.45	1965 Feb 8 2253	Nike Cajun	-	NASA 10.120GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S88	2438800.46	1965 Feb 8 2258	Nike Cajun	-	NASA 10.123GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	WDCRF	-
1965-S97	2438810.34	1965 Feb 18 2009	Nike Apache	-	NASA 14.11UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1965-S98	2438810.52	1965 Feb 19 0025	Nike Apache	-	AE5.492	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S100	2438810.70	1965 Feb 19 0451:42	Nike Tomahawk	9	Sandia 152-72	0.000	SAND	SS	-	LASL/SAND/Peek	Auroral	JGR73,3353	FDS	-
1965-S101	2438810.89	1965 Feb 19 0917:31	Nike Apache	-	NASA 14.95UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1965-S102	2438815.22	1965 Feb 23 1715	Nike Javelin	-	Sphere 14	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	SR6,1048	-
1965-S103	2438816.50	1965 Feb 25	Nike Apache	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeronomy	WDCRF	-	-
1965-S105	2438817.97	1965 Feb 26 1110	Nike Apache	-	Sphere 24	0.000	AFCRL	SS	-	AFCRL/Faire	Aeronomy	AFCRL2	SR6,1048	-
1965-S108	2438819.38	1965 Feb 27 2100	Nike Apache	-	AE5.556	0.000	AFCRL	SS	-	AFCRL/Smiddy,Faire	Aeron	WDCRF	SR6,1048	-
1965-S109	2438819.40	1965 Feb 27 2133	Nike Cajun	-	NASA 10.155UA	0.000	GSFC	SS	-	UMI/Hansen	Aeronomy	WDCRF	-	-
1965-S110	2438819.44	1965 Feb 27 2230	Nike Apache	-	AE5.486	0.000	AFCRL	SS	-	AFCRL/Smiddy,Faire	Ionos	WDCRF	-	-
1965-S115	2438819.51	1965 Feb 28 0021	Nike Apache	-	NASA 14.196CA	0.000	GSFC	SS	-	GCA/LSmith	Aeron/Ionos	WDCRF	GCA-TR-67-11-N	-
1965-A38	2438819.52	1965 Feb 28 0030	Nike Apache	-	AE5.493	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-A39	2438819.65	1965 Feb 28 0330	Nike Apache	-	NASA 14.198GA	0.000	GSFC	SF	U	GCA/LSmith	Aeronomy	WDCRF	GCA-TR-67-11-N	-
1965-S116	2438819.68	1965 Feb 28 0415	Nike Apache	-	AE5.494	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	SR8-909	-
1965-A40	2438819.75	1965 Feb 28 0600	Nike Apache	-	NASA 14.199GA	0.000	GSFC	SF	U	GCA/LSmith	Aeronomy	WDCRF	GCA-TR-67-11-N	-
1965-M06	2438819.78	1965 Feb 28 0639	Nike Apache	-	AE5.495	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S117	2438819.89	1965 Feb 28 0915	Nike Apache	-	AE5.496	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	SR8-909	-
1965-S118	2438819.89	1965 Feb 28 0915	Nike Apache	-	AE5.553	0.000	AFCRL	SS	-	AFCRL/Ulwick,Faire	Aeron	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-A41	2438819.98	1965 Feb 28 1130	Nike Apache	-	AE5.554	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Ionos	WDCRF	SR8-909	-
1965-S119	2438819.98	1965 Feb 28 1130	Nike Apache	-	AE5.497	0.000	AFCRL	SS	-	AFCRL/Smiddy,Ulwick	Aeron	WDCRF	-	-
1965-M07	2438820.01	1965 Feb 28 1211	Nike Apache	-	NASA 14.200CA	0.000	GSFC	SF	U	GCA/LSmith	Aeronomy	WDCRF	GCA-TR-67-11-N	-
1965-A42	2438820.05	1965 Feb 28 1315	Nike Apache	-	AE5.555	0.000	AFCRL	SF	U	AFCRL/Smiddy,Ulwick	Ionos	WDCRF	-	-
1965-S111	2438819.50	1965 Mar	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S112	2438819.50	1965 Mar	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S122	2438821.36	1965 Mar 1 2043	Nike Apache	-	NASA 14.253IA	0.000	GSFC/UIO	SS	-	UIO/Stoffregen	Aeronomy	AND	SP-4401	-
1965-S123	2438821.50	1965 Mar 2	Nike Tomahawk	9	Sandia 152-49	0.000	SAND	SS	-	LASL/	Tech?	FDS	-	-
1965-S124	2438821.50	1965 Mar 2	Nike Tomahawk	12	Sandia 152-53	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1965-A44	2438823.44	1965 Mar 3 2228	Nike Apache	-	Ferdinand 9	0.000	GSFC/NTNF	SF	U	GSFC/NDRE/Kane,Mahlum	Aeronomy	AND	SP-4401	-
1965-S137	2438825.37	1965 Mar 5 2057:50	Nike Apache	-	NASA 14.254IA	0.000	GSFC/UIO	SS	-	UIO/Stoffregen	Aeronomy	AND	SP-4401	-
1965-S138	2438825.81	1965 Mar 6 0730	Nike Tomahawk	9	Sandia 152-73	0.000	SAND	SS	-	LASL/Peek	Auroral	SandNews650312	FDS	-
1965-S143	2438828.15	1965 Mar 8 1535	Nike Apache	-	NASA 14.160GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S144	2438828.24	1965 Mar 8 1748:08	Nike Apache	-	NASA 14.64UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1965-S145	2438828.77	1965 Mar 9 0626:26	Nike Apache	-	NASA 14.65UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1965-S146	2438829.18	1965 Mar 9 1625	Nike Apache	-	NASA 14.85UE	0.000	GSFC	SS	-	UNH/Cahill	Plasma	WDCRF	CR-78234	-
1965-S148	2438830.17	1965 Mar 10 1600	Nike Apache	-	NASA 14.83UE	0.000	GSFC	SS	-	UNH/Cahill	Plasma	WDCRF	CR-78234	-
1965-S149	2438830.90	1965 Mar 11 0935:14	Nike Apache	-	NASA 14.98UA	0.000	GSFC	SS	-	UMI/PMR/Schaefer	Aeronomy	WDCRF	-	-
1965-S150	2438830.94	1965 Mar 11 1038	Nike Cajun	-	NASA 10.156UA	0.000	GSFC	SS	-	UMI/Hansen	Aeronomy	WDCRF	-	-
1965-A45	2438831.26	1965 Mar 11 1811	Nike	-	Smoke 078	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S151	2438831.34	1965 Mar 11 2007	Nike Apache	-	NASA 14.99UA	0.000	GSFC	SS	-	UMI/PMR/Schaefer	Aeronomy	WDCRF	-	-
1965-S152	2438831.50	1965 Mar 12	Nike Tomahawk	9	Sandia 152-79	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1965-S153	2438832.06	1965 Mar 12 1330	Nike Apache	-	NASA 14.07UE	0.000	GSFC	SS	-	UNH/Cahill	Plasma	WDCRF	CR-78234	-
1965-S154	2438832.17	1965 Mar 12 1600	Nike Apache	-	NASA 14.84UE	0.000	GSFC	SS	-	UNH/Cahill	Plasma	WDCRF	CR-78234	-
1965-A46	2438835.36	1965 Mar 15 2041	Nike Apache	-	Ferdinand 10	0.000	NTNF/GSFC	SF	U	GSFC/ILC/Kane,Jespersen	Ionos/Auroral	AND	WDCRF	-
1965-S164	2438836.18	1965 Mar 16 1615	Nike Apache	-	NASA 14.171GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S165	2438836.20	1965 Mar 16 1651	Nike Apache	-	NASA 14.177GI	0.000	GSFC	SS	-	GSFC/Blumle	Ionos	WDCRF	-	-
1965-S168	2438837.75	1965 Mar 18 0604	Nike Apache	-	NASA 14.172GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S169	2438837.78	1965 Mar 18 0641	Nike Apache	-	NASA 14.178GI	0.000	GSFC	SS	-	GSFC/Blumle,Aikin	Ionos	WDCRF	-	-
1965-S171	2438838.17	1965 Mar 18 1601	Nike Apache	-	NASA 14.176GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S172	2438838.19	1965 Mar 18 1638	Nike Apache	-	NASA 14.179GI	0.000	GSFC	SS	-	GSFC/Blumle,Aikin	Ionos	WDCRF	-	-
1965-S173	2438838.36	1965 Mar 18 2043	Nike Apache	-	NASA 14.62UA	0.000	GSFC	SS	-	UTD/Horowitz,Flowerday	Aeronomy	WDCRF	-	-
1965-S176	2438839.26	1965 Mar 19 1809	Nike Tomahawk	-	NASA 12.05/18.01GA	0.000	GSFC	SS	-	GSFC/UMI/Brace,Carignan	Aeronomy	WDCRF	-	-
1965-S178	2438840.06	1965 Mar 20 1320:09	Nike Apache	-	NASA 14.228UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1965-S179	2438840.19	1965 Mar 20 1628	Nike Apache	-	AE5.293	0.000	AFCRL	SS	-	AFCRL/Shuman	Ionos	WDCRF	-	-
1965-S180	2438840.21	1965 Mar 20 1704:13	Nike Cajun	-	AE6.252	0.000	AFCRL	SS	-	AFCRL/Smiddy,Sagalyn	Ionos	WDCRF	-	-
1965-A48	2438842.43	1965 Mar 22 2219	Nike Apache	-	Ferdinand 11	0.000	GSFC/NTNF	SF	U	NICP/KGO/Maseide,Riedler	Aeronomy	AND	SP-4401	-
1965-S183	2438841.82	1965 Mar 22 0744	Nike Apache	-	AE5.294	0.000	AFCRL	SS	-	AFCRL/Shuman	Ionos	WDCRF	-	-
1965-S184	2438841.87	1965 Mar 22 0849:10	Nike Cajun	-	AE6.253	0.000	AFCRL	SS	-	AFCRL/Smiddy,Sagalyn	Ionos	SR-VII-428	WDCRF	-
1965-S185	2438842.90	1965 Mar 23 0931:09	Nike Apache	-	NASA 14.229UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1965-S187	2438844.19	1965 Mar 24 1634	Nike Apache	-	NASA 14.174GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S188	2438844.21	1965 Mar 24 1707	Nike Apache	-	NASA 14.180GI	0.000	GSFC	SS	-	GSFC/Blumle	Ionos	WDCRF	-	-
1965-S194	2438845.17	1965 Mar 25 1600	Nike Apache	-	AE5.295	0.000	AFCRL	SS	-	AFCRL/Shuman	Ionos	WDCRF	-	-
1965-S197	2438846.15	1965 Mar 26 1541	Nike Apache	-	NASA 14.173GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S198	2438846.18	1965 Mar 26 1613	Nike Apache	-	NASA 14.181GI	0.000	GSFC	SS	-	GSFC/Blumle	Ionos	WDCRF	-	-
1965-S199	2438846.62	1965 Mar 27 0300	Nike Apache	-	NASA 14.182GI	0.000	GSFC	SS	-	GSFC/Blumle	Ionos	WDCRF	-	-
1965-S201	2438847.26	1965 Mar 27 1808	Nike Apache	-	NASA 14.175GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S203	2438848.16	1965 Mar 28 1550	Nike Apache	-	AE5.296	0.000	AFCRL	SS	-	AFCRL/Shuman	Ionos	WDCRF	-	-
1965-S205	2438849.16	1965 Mar 29 1547	Nike Apache	-	NASA 14.70GE	0.000	GSFC	SS	-	GSFC/Davis	Plasma	WDCRF	-	-
1965-S206	2438849.16	1965 Mar 29 1547	Nike Cajun	-	NASA 10.143GE	0.000	GSFC	SS	-	GSFC/Davis,Heppner	Plasma	WDCRF	-	-
1965-A55	2438851.27	1965 Mar 31 1831	Nike	-	Smoke 079	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S211	2438851.59	1965 Apr 1 0207	Nike Apache	-	NASA 14.132NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WDCRF	-	-
1965-S212	2438853.06	1965 Apr 2 1322	Nike Apache	-	NASA 14.185UE	0.000	GSFC	SS	-	UNH/Houston,Lockwood	Plasma	WDCRF	-	-
1965-S214	2438854.42	1965 Apr 3 2159	Nike Apache	-	NASA 14.207UE	0.000	GSFC	SS	-	RICE/LaQuey	Plasma	FC	WDCRF	-
1965-S215	2438855.17	1965 Apr 4 1606:35	Nike Apache	-	NASA 14.66UA	0.000	GSFC	SS	-	UMI/Smith	Aeronomy	WDCRF	-	-
1965-S217	2438856.07	1965 Apr 5 1345:53	Nike Apache	-	NASA 14.230UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1965-S218	2438856.32	1965 Apr 5 1942	Nike Apache	-	NASA 14.184UE	0.000	GSFC	SS	-	UNH/Houston,Lockwood	Plasma	WDCRF	-	-
1965-S220	2438857.19	1965 Apr 6 1634:05	Nike Apache	-	NASA 14.26UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S222	2438860.30	1965 Apr 9 1918:15	Nike Apache	-	NASA 14.231UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1965-S223	2438860.35	1965 Apr 9 2026:10	Nike Apache	-	NASA 14.63UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1965-S227	2438863.22	1965 Apr 12 1714:02	Nike Apache	-	NASA 14.232UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1965-S228	2438863.28	1965 Apr 12 1837	Nike Iroquois	-	AE07.313	0.000	AFCRL	SS	-	AFCRL/Hoult	Test	WDCRF	-	-
1965-S231	2438863.67	1965 Apr 13 0405:06	Nike Apache	-	NASA 14.67UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S232	2438864.17	1965 Apr 13 1600:09	Nike Apache	-	NASA 14.27UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S233	2438864.22	1965 Apr 13 1710	Nike Apache	-	NASA 14.186UE	0.000	GSFC	SS	-	UNH/Lockwood,Houston	Plasma	WDCRF	-	-
1965-S234	2438864.30	1965 Apr 13 1906	Nike Apache	-	NASA 14.101UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1965-S237	2438866.17	1965 Apr 15 1600:04	Nike Apache	-	NASA 14.25UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S238	2438866.25	1965 Apr 15 1802	Nike Apache	-	NASA 14.100UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1965-M09	2438871.42	1965 Apr 20 2204	Nike Cajun	-	AD6.841	0.000	AFCRL	SS	-	AFCRL/Ellis	Test	WDCRF	-	-
1965-S246	2438873.63	1965 Apr 23 0301	Nike Cajun	-	NASA 10.171NA	0.000	GSFC	SS	-	LARC/Tolefson,Hord	Aeronomy	WDCRF	-	-
1965-S247	2438873.67	1965 Apr 23 0402	Nike Apache	-	NASA 14.255NA	0.000	GSFC	SS	-	LARC/Tolefson,Hord	Aeronomy	WDCRF	-	-
1965-S210	2438878.50	1965 Apr 28	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S257	2438879.44	1965 Apr 28 2227	Nike Cajun	-	NASA 10.150GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S264	2438880.23	1965 Apr 29 1732	Nike Cajun	-	NASA 10.94IA	0.000	GSFC	SS	-	SUPA/	Aeronomy	CR-133401	-	-
1965-A61	2438881.28	1965 Apr 30 1837	Nike Cajun	-	NASA 10.95IA	0.000	GSFC	SS	-	SUPA/	Aeronomy	CR-133401	-	-
1965-A62	2438881.33	1965 Apr 30 1953	Nike	-	Smoke 080	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S268	2438880.50	1965 May	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-S273	2438884.27	1965 May 3 1823	Nike Cajun	-	NASA 10.127GA	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-U03	2438884.74	1965 May 4 0550	Nike Cajun	-	Meteor 6/7	0.000	LARCN	SS	-	LARC/Ayers	Test	SAOLab	SAO-SR317	-
1965-A69	2438894.26	1965 May 13 1813	Nike	-	Smoke 081	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-A70	2438895.15	1965 May 14 1541	Nike	-	Smoke 082	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-A72	2438899.27	1965 May 18 1830	Nike	-	Smoke 083	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S303	2438902.58	1965 May 22 0202:01	Nike Apache	-	NASA 14.47UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S305	2438903.08	1965 May 22 1400:00	Nike Apache	-	NASA 14.48UA	0.000	GSFC	SS	-	UMI/Smith,Horvath	Aeronomy	WDCRF	-	-
1965-S319	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-74	0.000	SAND	SS	-	LASL/	Solar X	FDS	MR650607-27	-
1965-S320	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-75	0.000	SAND	SS	-	LASL/	Solar X	FDS	MR650607-27	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S321	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-76	0.000	SAND	SS	-	LASL/	Solar X	FDS	MR650607-27	-
1965-S322	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-77	0.000	SAND	SS	-	LASL/	Solar X	FDS	MR650607-27	-
1965-S323	2438911.33	1965 May 30 2000?	Nike Tomahawk	9	Sandia 152-78	0.000	SAND	SS	-	LASL/	Solar X	FDS	MR650607-27	-
1965-S326	2438911.50	1965 Jun	Nike Apache	?	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S327	2438911.50	1965 Jun	Nike Apache	?	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-A79	2438913.28	1965 Jun 1 1844	Nike	-	Smoke 084	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S336	2438913.93	1965 Jun 2 1019	Nike Cajun	-	AD6.850	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S337	2438913.94	1965 Jun 2 1030	Nike Cajun	-	AE6.498	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S325	2438914.50	1965 Jun 3	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-S355	2438925.88	1965 Jun 14 0913:30	Nike Apache	-	NASA 14.245UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith.L	Ionos	CR-79096	MR650621-12	-
1965-S363	2438929.40	1965 Jun 17 2141:00	Nike Apache	-	NASA 14.246UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith.L	Ionos	CR-79096	-	-
1965-S366	2438930.25	1965 Jun 18 1756	Nike Apache	-	NASA 14.215AI	0.000	GSFC	SS	-	NBSC/NOAA/Hugill,Dunham	Ionos	WDCRF	-	-
1965-S367	2438930.47	1965 Jun 18 2311	Aerobee 350	-	NASA 17.01GT	0.000	GSFC	SS	-	GSFC/Lane	Test	SRctCon67-54	MR650628-10/0927-26	-
1965-S378	2438934.58	1965 Jun 23 0149	Nike Apache	-	NASA 14.71CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy/Na	WI-PR-65-38	-	-
1965-S377	2438934.59	1965 Jun 23 0203	Nike Apache	-	NASA 14.72CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy/Na	WDCRF	WI-PR-65-38	-
1965-S379	2438934.67	1965 Jun 23 0400	Nike Apache	-	NASA 14.201CA	0.000	GSFC	SS	-	GCA/Bedinger,Smith.L	Aeronomy/Na	WDCRF	GCA-TR-67-11-N	-
1965-S380	2438934.87	1965 Jun 23 0847	Nike Apache	-	NASA 14.73CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1965-S381	2438934.87	1965 Jun 23 0852	Nike Apache	-	NASA 14.74CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1965-S390	2438940.50	1965 Jun 29	Nike Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	WDCRF	-	-
1965-A94	2438943.24	1965 Jul 1 1740	Nike	-	Smoke 085	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-A101	2438956.26	1965 Jul 14 1809	Nike	-	Smoke 086	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S398	2438955.50	1965 Jul 14	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S399	2438956.50	1965 Jul 15	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S400	2438956.50	1965 Jul 15	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S401	2438956.50	1965 Jul 15	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S402	2438957.50	1965 Jul 16	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S403	2438957.50	1965 Jul 16	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S404	2438957.50	1965 Jul 16	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-A103	2438959.13	1965 Jul 17 1505	Nike Apache	-	AE5.814	0.000	AFCRL	SS	-	AFCRL/Harvey	Ionos	WDCRF	-	-
1965-S408	2438961.50	1965 Jul 20	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S409	2438961.50	1965 Jul 20	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S405	2438962.50	1965 Jul 21	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S428	2438962.94	1965 Jul 21 1033:00	Nike Iroquois	-	AE07.347	0.000	AFCRL	SS	-	AFCRL/Faucher,Hoult	Test/Aeron	JGR73,299	-	-
1965-A108	2438963.21	1965 Jul 21 1708	Nike	-	Smoke 087	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S395	2438963.50	1965 Jul 22	Nike Apache	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	DTIC	-
1965-S396	2438963.50	1965 Jul 22	Nike Apache	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	DTIC	-
1965-S397	2438963.50	1965 Jul 22	Nike Apache	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	DTIC	-
1965-S406	2438964.50	1965 Jul 23	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S407	2438964.50	1965 Jul 23	Nike Cajun	-	Capache	0.000	MICOM	MS	-	-	Aeron?	WSMR	-	-
1965-S431	2438965.21	1965 Jul 23 1705	Nike Cajun	-	NASA 10.128GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S448	2438979.97	1965 Aug 7 1113	Nike Cajun	-	NASA 10.151GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S449	2438980.00	1965 Aug 7 1200	Nike Cajun	-	NASA 10.96GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S450	2438980.27	1965 Aug 7 1830	Nike Cajun	-	NASA 10.154UA	0.000	GSFC	SS	-	UMI/Jones,Peterson	Aeronomy	WDCRF	SP-219	-
1965-S451	2438980.32	1965 Aug 7 1939	Nike Cajun	-	NASA 10.162GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S452	2438980.32	1965 Aug 7 1945	Nike Cajun	-	NASA 10.165GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S453	2438980.34	1965 Aug 7 2006	Nike Cajun	-	NASA 10.168GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S454	2438980.65	1965 Aug 8 0340	Nike Cajun	-	NASA 10.169GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S455	2438980.67	1965 Aug 8 0400	Nike Cajun	-	NASA 10.166GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S456	2438980.68	1965 Aug 8 0415	Nike Cajun	-	NASA 10.163GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S457	2438980.79	1965 Aug 8 0652	Nike Cajun	-	NASA 10.157UA	0.000	GSFC	SS	-	UMI/Jones,Peterson	Aeronomy	UMSphere	-	-
1965-S458	2438980.92	1965 Aug 8 1002	Nike Cajun	-	NASA 10.167GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S459	2438980.93	1965 Aug 8 1015	Nike Cajun	-	NASA 10.170GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S460	2438981.92	1965 Aug 9 1010	Nike Cajun	-	NASA 10.164GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S465	2438983.99	1965 Aug 11 1149	Nike Cajun	-	NASA 10.144GM	0.000	GSFC	SS	-	DUD/	Aeronomy/Meteorites	WDCRF	-	-
1965-A120	2438985.33	1965 Aug 12 1957	Nike	-	Smoke 088	0.000	LARCN	AS	-	LARC/Hemenway	Aeronomy	TN-D-6861	-	-
1965-S438	2438985.50	1965 Aug 13	Nike Javelin	-	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-S471	2438991.57	1965 Aug 19 0140	Nike Apache	-	NASA 14.133NA	0.000	GSFC	SS	-	LERC/Potter	Aeronomy	WDCRF	-	-
1965-S476	2438997.42	1965 Aug 24 2159	Nike Apache	-	NASA 14.210GI	0.000	GSFC	SS	-	GSFC/INPE/Bourdeau	Ionos	WDCRF	-	-
1965-S486	2439004.97	1965 Sep 1 1117	Nike Apache	-	NASA 14.213UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WDCRF	MR650913-13/CR-70858	-
1965-S488	2439006.72	1965 Sep 3 0517	Nike Apache	-	NASA 14.214UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WDCRF	CR-70858	-
1965-S492	2439013.50	1965 Sep 9 2358	Nike Apache	-	NASA 14.75GR	0.000	GSFC	SS	-	GSFC/Stone	RF Astron	WDCRF	-	-
1965-S495	2439019.35	1965 Sep 15 2028:00	Nike Apache	-	NASA 14.244UI	0.000	GSFC	SS	-	UIUC/GCA/Bowhill,Smith	Ionos	CR-79096	WDCRF	-
1965-A131	2439020.09	1965 Sep 16 1404	Nike Apache	-	NASA 14.234UE	0.000	GSFC	SF	U	UCB/Anderson	Aurora	WDCRF	-	-
1965-S497	2439021.16	1965 Sep 17 1544	Nike Apache	-	NASA 14.235UE	0.000	GSFC	SS	-	UCB/Anderson	Aurora	WDCRF	-	-
1965-S501	2439022.42	1965 Sep 18 2202	Nike Apache	-	NASA 14.224IA	0.000	GSFC	SS	-	UTR/DeJager,Veldkamp	Aeronomy	WDCRF	-	-
1965-A133	2439024.09	1965 Sep 20 1410	Nike Apache	-	NASA 14.237UE	0.000	GSFC	SF	U	UCB/Anderson	Aurora	WDCRF	-	-
1965-S504	2439024.17	1965 Sep 20 1608	Nike Apache	-	NASA 14.236UE	0.000	GSFC	SS	-	UCB/Anderson	Aurora	WDCRF	-	-
1965-S506	2439025.42	1965 Sep 21 2200	Nike Apache	-	NASA 14.225IA	0.000	GSFC	SS	-	UTR/DeJager,Veldkamp	Aeronomy	WDCRF	-	-
1965-A135	2439027.31	1965 Sep 23 1931	Nike	-	Smoke 089	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S511	2439027.87	1965 Sep 24 0852	Nike Apache	-	NASA 14.226IA	0.000	GSFC	SS	-	UTR/DeJager,Veldkamp	Aeronomy	WDCRF	-	-
1965-S516	2439030.87	1965 Sep 27 0854	Nike Apache	-	NASA 14.227IA	0.000	GSFC	SS	-	UTR/DeJager,Veldkamp	Aeronomy	WDCRF	-	-
1965-S773	2439032.50	1965 Sep 29	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S774	2439038.50	1965 Oct 5	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-A140	2439039.24	1965 Oct 5 1752	Nike	-	Smoke 090	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S543	2439039.47	1965 Oct 5 2321	Nike Apache	-	NASA 14.202CA	0.000	GSFC	SS	-	GSFC/GCA/Dubin	Aeronomy	WDCRF	-	-
1965-A141	2439039.62	1965 Oct 6 0300	Nike Apache	-	NASA 14.203CA	0.000	GSFC	SF	U	GSFC/GCA/Dubin	Aeronomy	WDCRF	GCA-TR-67-11-N	-
1965-S523	2439043.50	1965 Oct 10	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1965-S551	2439047.17	1965 Oct 13 1601	Nike Cajun	-	NASA 10.152GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S552	2439047.17	1965 Oct 13 1611	Nike Cajun	-	NASA 10.97GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S553	2439047.20	1965 Oct 13 1651	Nike Cajun	-	NASA 10.129GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S775	2439047.50	1965 Oct 14	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S557	2439051.85	1965 Oct 18 0830:11	Nike Iroquois	-	CRL AE07.618D	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL66-738	AnnalesGeo24,285	-
1965-S559	2439053.23	1965 Oct 19 1730	Nike Cajun	-	NASA 10.177GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S560	2439053.23	1965 Oct 19 1730	Nike Cajun	-	NASA 10.98GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S562	2439053.47	1965 Oct 19 2310	Nike Cajun	-	NASA 10.174GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S567	2439054.50	1965 Oct 21	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	Desind	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S569	2439055.83	1965 Oct 22 0754:28	Nike Iroquois	-	CRL AE07.619D	0.000	AFCRL	SS	-	AFCRL/Ulwick	Ionos	AFCRL66-738	AnnalesGeo24,285	-
1965-S572	2439057.15	1965 Oct 23 1538	Nike Cajun	-	NASA 10.178GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S573	2439057.18	1965 Oct 23 1614	Nike Cajun	-	NASA 10.175GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S574	2439057.19	1965 Oct 23 1638	Nike Cajun	-	NASA 10.172GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S776	2439060.50	1965 Oct 27	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S578	2439061.49	1965 Oct 27 2348	Nike Cajun	-	NASA 10.173GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S579	2439061.49	1965 Oct 27 2348	Nike Cajun	-	NASA 10.179GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-S580	2439061.51	1965 Oct 28 0010	Nike Cajun	-	NASA 10.176GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1965-A149	2439063.27	1965 Oct 29 1823	Nike	-	Smoke 091	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S587	2439064.50	1965 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-S588	2439064.50	1965 Nov	Nike Javelin	?	DASA HAR	0.000	DASA	SS	-	DASA/	Aeron?	WSMR	-	-
1965-A153	2439067.15	1965 Nov 2 1531	Nike	-	Smoke 092	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S593	2439067.89	1965 Nov 3 0917	Nike Cajun	-	CRL AE6.557	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	WDCRF	SR-VII-1046	-
1965-S605	2439074.28	1965 Nov 9 1840:00	Nike Apache	-	NASA 14.168UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1965-S607	2439074.30	1965 Nov 9 1916	Nike Tomahawk	-	NASA 18.03GA	0.000	GSFC	SS	-	GSFC/UMI/Brace	Aeronomy	WDCRF	-	-
1965-S586	2439074.50	1965 Nov 10	Nike Apache	-	BMRS	0.000	MICOM	MS	-	NMSA/	Target	WSMR	-	-
1965-A159	2439074.77	1965 Nov 10 0630	Nike Apache	-	NASA 14.169UM	0.000	GSFC	SF	U	UMI/Horvath	Aeronomy	WDCRF	-	-
1965-S609	2439074.79	1965 Nov 10 0700	Nike Tomahawk	-	NASA 18.02GA	0.000	GSFC	SS	-	GSFC/UMI/Brace,Carignan	Aeronomy	WDCRF	-	-
1965-S611	2439075.67	1965 Nov 11 0410	Nike Cajun	-	CRL AE6.378	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Aeron	WDC	AFCRL	-
1965-S613	2439076.50	1965 Nov 12	Nike Tomahawk	9	Sandia 152-84	0.000	SAND	SS	-	SAND/	Aeron	FDS	PMRHist65	-
1965-S610	2439081.27	1965 Nov 16 1822	Nike Cajun	-	CRL AE6.379	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Ionos/Aeron	SR-VII-186	WDCRF/Nov10	-
1965-S618	2439081.43	1965 Nov 16 2215:00	Nike Cajun	-	-	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-A230	2439086.50	1965 Nov 22	Nike Tomahawk	-	Sandia?	0.000	SAND	SF	U	SAND/AEC/	Aeron	PMRHist65	-	-
1965-A231	2439086.50	1965 Nov 22	Nike Tomahawk	-	Sandia?	0.000	SAND	SF	U	SAND/AEC/	Aeron	PMRHist65	-	-
1965-S793	2439088.50	1965 Nov 24	Nike Tomahawk	-	Sandia?	0.000	SAND	SF	U	SAND/AEC/	Aeron	PMRHist65	-	-
1965-S620	2439081.68	1965 Nov 17 0425	Nike Apache	-	NASA 14.238UE	0.000	GSFC	SS	-	UAF/Murray,Opp	Aurora	WDCRF	-	-
1965-A163	2439082.36	1965 Nov 17 2042	Nike	-	Smoke 093	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S621	2439082.48	1965 Nov 17 2336	Nike Cajun	-	CRL AE6.484	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Aeron	WDCRF	AFCRL	-
1965-S622	2439082.50	1965 Nov 18	Nike Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/Marcos	Aeron Na/TMA	AFCRL	-	-
1965-S624	2439082.72	1965 Nov 18 0520	Nike Cajun	-	CRL AE6.382	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Aeron	SR-VII-186	AFCRL	-
1965-S625	2439082.72	1965 Nov 18 0520	Nike Cajun	-	CRL AE6.383	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	WDC	AFCRL	-
1965-S628	2439082.97	1965 Nov 18 1121	Nike Cajun	-	CRL AE6.499	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDC	AFCRL	-
1965-S629	2439083.10	1965 Nov 18 1431	Nike Apache	-	NASA 14.78UA	0.000	GSFC	SS	-	DUD/Hemenway	Meteorites	WDCRF	SR9,140	-
1965-A164	2439083.26	1965 Nov 18 1818	Nike	-	Smoke 094	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S585	2439083.50	1965 Nov 19	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	DTIC	-
1965-S633	2439084.53	1965 Nov 20 0037:53	Nike Apache	-	Ferdinand 12	0.000	NDRE	SS	-	GSFC/NDRE/Kane,Maehlum	Ionos	AND	RadioSci2,1283	-
1965-S634	2439084.72	1965 Nov 20 0520	Nike Apache	-	NASA 14.239UE	0.000	GSFC	SS	-	UAF/Murray,Opp	Aurora	WDCRF	-	-
1965-A166	2439087.43	1965 Nov 22 2215	Nike Tomahawk	12	Sandia 152-83	0.000	SAND	SF	S2	LRL/	XR Astron	FDS	UCRL-50587	-
1965-S637	2439086.50	1965 Nov 22	Nike Tomahawk	9	Sandia 152-27	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1965-S638	2439086.50	1965 Nov 22	Nike Tomahawk	12	Sandia 152-89	0.000	SAND	SF	U	SAND/	Aeron?	FDS	-	-
1965-S641	2439087.52	1965 Nov 23 0030:00	Nike Cajun	?	-	0.000	AFCRL	SU	-	AFCRL/?	Aeron	WDCRF	-	-
1965-A167	2439088.31	1965 Nov 23 1924	Nike	-	Smoke 095	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S646	2439088.67	1965 Nov 24 0404	Nike Apache	-	NASA 14.124UE	0.000	GSFC	SS	-	UAF/Murray,Opp	Aurora	WDCRF	-	-
1965-S647	2439089.15	1965 Nov 24 1537	Nike Apache	-	NASA 14.242UE	0.000	GSFC	SS	-	RICE/Haymes	Plasma	WDCRF	-	-
1965-A171	2439095.17	1965 Nov 30 1610	Nike	-	Smoke 096	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-A172	2439102.26	1965 Dec 7 1812	Nike	-	Smoke 097	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1965-S656	2439102.50	1965 Dec 8	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	DTIC	-
1965-S772	2439102.50	1965 Dec 8	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	DTIC	-
1965-S670	2439104.36	1965 Dec 9 2033	Nike Cajun	-	CRL AA6.174	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	FC	AFCRL2	-
1965-S777	2439104.50	1965 Dec 10	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S672	2439104.71	1965 Dec 10 0500	Nike Cajun	-	CRL AA6.173	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	FC	AFCRL	-
1965-S673	2439105.50	1965 Dec 11	Nike Javelin	-	-	0.000	APGC?	SS	-	APGC/	Aeron	MR651220-10	-	-
1965-S675	2439106.29	1965 Dec 11 1855	Nike Apache	-	CRL AE5.558	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	FC	AFCRL	-
1965-S676	2439106.70	1965 Dec 12 0451	Nike Apache	-	CRL AE5.172	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	FC	AFCRL	-
1965-S778	2439108.50	1965 Dec 14	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S779	2439109.50	1965 Dec 15	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S683	2439110.21	1965 Dec 15 1700:00	Nike Apache	-	NASA 14.247UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	MR651220-10	-
1965-S684	2439110.30	1965 Dec 15 1919	Nike Apache	-	NASA 14.68II	0.000	CNAE/GSFC	SS	-	INPE/GSFC/Blumle	Ionos	SR-VII	WDCRF	-
1965-S780	2439110.50	1965 Dec 16	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S781	2439111.50	1965 Dec 17	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S782	2439111.50	1965 Dec 17	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	DTIC	-	-
1965-S688	2439112.71	1965 Dec 18 0459	Nike Apache	-	NASA 14.69II	0.000	CNAE/GSFC	SS	-	INPE/GSFC/Blumle	Ionos	SR-VII	WDCRF	-
1966-A587	2439125.50	1966?	Nike Nike	-	Sandia	0.000	SAND	AS	-	SAND/Pepper	Test	JAircraft6705-265	-	-
1966-A161	2439125.50	1966?	Nike Nike	-	Sandia	0.000	SAND	AS	-	SAND/Pepper	Test	JAircraft6705-265	-	-
1966-S60	2439136.22	1966 Jan 10 1714:00	Nike Apache	-	NASA 14.248UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	CR-79096	WDCRF	-
1966-A14	2439137.26	1966 Jan 11 1817	Nike	-	Smoke 099	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S64	2439143.44	1966 Jan 17 2239	Nike Apache	-	NASA 14.262CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	CR-76500	WDCRF	-
1966-S09	2439144.34	1966 Jan 18 2006	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	AD738848	DTIC	-
1966-S66	2439143.52	1966 Jan 18 0032	Nike Apache	-	NASA 14.263CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	CR-76500	SP-4007	-
1966-S67	2439143.58	1966 Jan 18 0200	Nike Apache	-	NASA 14.264CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	CR-76500	WDCRF	-
1966-S69	2439143.72	1966 Jan 18 0512	Nike Apache	-	NASA 14.265CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	CR-76500	WDCRF	-
1966-S70	2439143.98	1966 Jan 18 1131	Nike Apache	-	NASA 14.266CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1966-S75	2439148.75	1966 Jan 23 0606	Astrobee 200	-	CRL AC15.732	0.000	AFCRL	SS	-	AFCRL/Sandock	Ionos/Auroral	AFCRL	-	-
1966-S77	2439149.74	1966 Jan 24 0542	Nike Cajun	-	NASA 10.185GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	TR-R-288	-
1966-S10	2439150.34	1966 Jan 24 2004	Nike Apache	-	-	0.000	AFBSD	MS	-	-	Target	AD738848	DTIC	-
1966-S78	2439150.58	1966 Jan 25 0152	Nike Cajun	-	NASA 10.158UA	0.000	GSFC	SS	-	UMI/Peterson	Aeronomy	WDCRF	SP-4007	-
1966-S80	2439152.24	1966 Jan 26 1745	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S81	2439152.49	1966 Jan 26 2350	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-M04	2439153.78	1966 Jan 28 0643	Astrobee 200	-	CRL AC15.733	0.000	AFCRL	SF	U	AFCRL/Sandock	Ionos/Auroral	FC	AFCRL	-
1966-S89	2439158.34	1966 Feb 1 2011	Nike Cajun	-	NASA 10.182GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S90	2439158.37	1966 Feb 1 2046	Nike Cajun	-	NASA 10.147GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S91	2439158.58	1966 Feb 2 0202	Nike Cajun	-	NASA 10.186GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S96	2439160.27	1966 Feb 3 1831	Nike Cajun	-	NASA 10.159UA	0.000	GSFC	SS	-	UMI/Peterson	Aeronomy	WDCRF	SP-4007	-
1966-S97	2439160.58	1966 Feb 4 0154	Nike Cajun	-	NASA 10.143UA	0.000	GSFC	SS	-	UMI/Peterson	Aeronomy	WDCRF	SP-4007	-
1966-S99	2439164.71	1966 Feb 8 0500	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S100	2439166.74	1966 Feb 10 0551	Nike Apache	-	NASA 14.188GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	FC	SP-4007	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S101	2439166.80	1966 Feb 10 0709	Nike Cajun	-	NASA 10.187GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S102	2439166.83	1966 Feb 10 0748	Nike Cajun	-	NASA 10.148GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S103	2439166.83	1966 Feb 10 0800	Nike Cajun	-	NASA 10.183GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S105	2439167.25	1966 Feb 10 1800	Nike Cajun	-	NASA 10.145GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S106	2439167.28	1966 Feb 10 1841	Nike Cajun	-	NASA 10.149GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S107	2439167.40	1966 Feb 10 2130	Nike Cajun	-	NASA 10.184GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S116	2439174.18	1966 Feb 17 1616	Nike Apache	-	NASA 14.243UE	0.000	GSFC	SS	-	RICE/Haymes	Plasma	WDCRF	SP-4007	-
1966-S117	2439174.71	1966 Feb 18 0456	Nike Apache	-	NASA 14.189GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	FC	GSFC-X-611-67-216	-
1966-S118	2439175.50	1966 Feb 19 0005	Nike Javelin	-	CRL AFS.502	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Ionos/Aeron	SR9,363	AFCRL	-
1966-S120	2439176.51	1966 Feb 20 0010	Nike Javelin	-	CRL AFS.504	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Ionos/Aeron	WDCRF	AFCRL	-
1966-S122	2439176.74	1966 Feb 20 0545	Nike Javelin	-	CRL AFS.505	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Ionos/Aeron	WDCRF	AFCRL	-
1966-A40	2439176.96	1966 Feb 20 1108	Nike Javelin	-	CRL AFS.508	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Ionos/Aeron	WDCRF	AFCRL	-
1966-A41	2439178.29	1966 Feb 21 1854	Nike	-	Smoke 100	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S134	2439182.08	1966 Feb 25 1359	Nike Apache	-	NASA 14.211IA	0.000	GSFC	SS	-	SUPA/Rahmatullah	Aeronomy	WDCRF	-	-
1966-S136	2439183.08	1966 Feb 26 1359	Nike Apache	-	NASA 14.212IA	0.000	GSFC	SS	-	SUPA/Rahmatullah	Aeronomy	WDCRF	SP-4007	-
1966-S137	2439184.20	1966 Feb 27 1651:59	Nike Apache	-	NASA 14.251UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	Horvath72	SP-4007	-
1966-A44	2439184.71	1966 Feb 28 0458	Nike Apache	-	NASA 14.252UM	0.000	GSFC	SF	U	UMI/Horvath	Aeronomy	WDCRF	SP-4007	-
1966-S138	2439184.50	1966 Mar	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR-WWW	-	-
1966-S139	2439184.50	1966 Mar	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR-WWW	-	-
1966-S158	2439194.86	1966 Mar 10 0845	Nike Iroquois	-	CRL AF07.327	0.000	AFCRL	SS	-	AFCRL/McIsaac	Ionos	AFCRL	-	-
1966-S156	2439194.50	1966 Mar 10	Nike Javelin	-	-	0.000	DASA	SU	-	DASA/	Aeron?	www.wsmr-history.org	-	-
1966-S140	2439196.29	1966 Mar 11 1900	Nike Apache	-	-	0.000	SAMSO	MS	-	-	Target	AD738848	DTIC	-
1966-A588	2439196.38	1966 Mar 11 2102	Nike Apache	-	-	0.000	SAMSO	MF	U	-	Target	AD738848	DTIC	-
1966-S163	2439197.72	1966 Mar 13 0513	Nike Apache	-	NASA 14.190GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	FC	SP-4007	-
1966-A46	2439201.36	1966 Mar 16 2035	Nike	-	Smoke 101	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-A47	2439202.25	1966 Mar 17 1802	Nike	-	Smoke 102	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S176	2439204.01	1966 Mar 19 1220:30	Nike Javelin	-	-	0.000	NOTS	SS	-	NOTS/	Tech	NYT660320	VAFB	-
1966-S179	2439206.46	1966 Mar 21 2304:02	Nike Apache	-	NASA 14.109GI	0.000	GSFC/NDRE	SS	-	GSFC/Kane	Ionos	AND	WDCRF	-
1966-S181	2439207.67	1966 Mar 23 0407	Nike Tomahawk	-	NASA 18.07GE	0.000	GSFC	SS	-	GSFC/Evans,Burrows	Auroral	WDCRF	SP-4007	-
1966-S183	2439209.06	1966 Mar 24 1330	Nike Apache	-	NASA 14.257IA	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron	WDCRF	-	-
1966-S184	2439209.15	1966 Mar 24 1531	Nike Cajun	-	NASA 10.180IM	0.000	GSFC	SS	-	SUPA/UCL/Groves	Aeronomy	CR-133401	SP-4007	-
1966-S191	2439209.90	1966 Mar 25 0942:10?	Nike Javelin	-	-	0.000	NOTS	SS	-	NOTS/	Tech	SP-4007	VAFB	-
1966-S189	2439209.51	1966 Mar 25 0019	Nike Apache	-	NASA 14.258IA	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron	WDCRF	SP-4401	-
1966-S193	2439212.22	1966 Mar 27 1712	Nike Apache	-	NASA 14.165IM	0.000	GSFC	SS	-	SUPA/UCL/Groves	Aeronomy	CR-133401	SR10,167	-
1966-S141	2439214.30	1966 Mar 29 1914	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S701	2439216.50	1966 Apr 1	Nike Javelin	-	Min 2 plume study	0.000	AFBSD	MS	-	-	Tech	Wire	-	-
1966-S209	2439222.20	1966 Apr 6 1652	Nike Apache	-	NASA 14.216AI	0.000	GSFC	SS	-	NBSC/Calvert	Ionos	WI-PR-66-16	WDCRF	Or Apr 4?
1966-S215	2439223.67	1966 Apr 8 0401	Nike Apache	-	NASA 14.76UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WDCRF	CR-70858	-
1966-S218	2439229.75	1966 Apr 14 0555	Nike Tomahawk	-	NASA 18.08GE	0.000	GSFC	SS	-	GSFC/Evans,Burrows	Auroral	WDCRF	SP-4007	-
1966-S200	2439237.28	1966 Apr 21 1845	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S201	2439237.38	1966 Apr 21 2103	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S230	2439236.59	1966 Apr 21 0210	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S199	2439238.59	1966 Apr 23 0210	Nike Cajun	-	RN026	0.000	MICOM	MS	-	-	Target	WSMR	DTIC	-
1966-S236	2439241.51	1966 Apr 26 0012	Nike Apache	-	NASA 14.249IM	0.000	GSFC	SS	-	SUPA/UCL/Groves	Aeronomy	CR-133401	SR10,167	-
1966-S198	2439242.50	1966 Apr 27	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Test	Ulrich/Wire	WSMR	-
1966-S245	2439247.42	1966 May 1 2210	Nike Cajun	-	NASA 10.190GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S240	2439248.05	1966 May 2 1318	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Test	Ulrich/Wire	WSMR	-
1966-S241	2439248.10	1966 May 2 1426	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S242	2439248.20	1966 May 2 1647	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S247	2439247.55	1966 May 2 0114	Nike Cajun	-	NASA 10.188GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S248	2439247.55	1966 May 2 0119	Nike Cajun	-	NASA 10.194GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S249	2439247.61	1966 May 2 0232	Nike Cajun	-	NASA 10.192GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S251	2439249.42	1966 May 3 2201	Nike Cajun	-	NASA 10.191GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S252	2439249.51	1966 May 4 0008	Nike Cajun	-	NASA 10.193GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S253	2439249.53	1966 May 4 0037	Nike Cajun	-	NASA 10.189GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S255	2439249.56	1966 May 4 0120	Nike Cajun	-	NASA 10.195GM	0.000	GSFC	SS	-	INPE/GSFC/DeMendonca	Aeronomy GSFC Gren 115	WDCRF	-	-
1966-A63	2439249.50	1966 May 4	Nike Apache	-	BMTS-22	0.000	MICOM	MF	U	-	Test	SRctCon67-249	Ulrich/Wire	-
1966-S259	2439256.50	1966 May 11	Nike Tomahawk	9	Sandia 152-24	0.000	SAND	SS	-	SAND/Smith.LB?	Aeron	FDS	-	-
1966-S274	2439268.50	1966 May 23	Nike Tomahawk	9	Sandia 152-91	0.000	SAND	SS	-	SAND/Smith.LB?	Tech	FDS	-	-
1966-S243	2439270.42	1966 May 24 2200	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S277	2439269.50	1966 May 24	Nike Tomahawk	9	Sandia 152-60	0.000	SAND	SS	-	SAND/	Tech	FDS	SRctCon1-478	-
1966-S280	2439271.50	1966 May 26	Nike Tomahawk	9	Sandia 152-92	0.000	SAND	SF	U	SAND/	Tech	FDS	-	-
1966-S289	2439276.50	1966 Jun	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S288	2439279.20	1966 Jun 2 1643	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S290	2439283.91	1966 Jun 7 0944	Nike Apache	-	BMRS Photometric	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S302	2439285.12	1966 Jun 8 1450	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	SandNews660603	-
1966-S303	2439285.14	1966 Jun 8 1515	Nike Cajun	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S310	2439288.75	1966 Jun 12 0554	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S311	2439288.82	1966 Jun 12 0737	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S312	2439288.87	1966 Jun 12 0857	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S313	2439288.89	1966 Jun 12 0918	Nike Cajun	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S751	2439289.91	1966 Jun 13 0944	Nike Apache	-	BMRS Photometric	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S315	2439290.89	1966 Jun 14 0918	Nike Apache	-	NASA 14.270UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1966-S320	2439292.74	1966 Jun 16 0546	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S321	2439292.77	1966 Jun 16 0625	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1966-S324	2439293.63	1966 Jun 17 0313	Nike Cajun	-	NASA 10.198GM	0.000	GSFC	SS	-	GSFC/Smith	Aeron	FC	SP-4007	-
1966-S323	2439293.64	1966 Jun 17 0318	Nike Cajun	-	NASA 10.196GM	0.000	GSFC	SS	-	GSFC/Smith	Aeron	SP-4401	SP-4007	-
1966-S325	2439294.56	1966 Jun 18 0125	Nike Cajun	-	CRL AF6.501	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	USCOSPAR67	AFCRL	-
1966-S333	2439299.77	1966 Jun 23 0635	Nike Cajun	-	NASA 10.199GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S334	2439299.83	1966 Jun 23 0752	Nike Cajun	-	NASA 10.197GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S335	2439299.87	1966 Jun 23 0853	Nike Iroquois	-	CRL AF07.621	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	AFCRL	-
1966-S338	2439301.56	1966 Jun 25 0130	Nike Iroquois	-	CRL AF07.506	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	AFCRL	-
1966-S339	2439301.65	1966 Jun 25 0336	Nike Iroquois	-	CRL AF07.509	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	AFCRL	-
1966-S340	2439301.84	1966 Jun 25 0815	Nike Iroquois	-	CRL AF07.620	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	AFCRL	-
1966-S341	2439301.91	1966 Jun 25 0957	Nike Iroquois	-	CRL AF07.507	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	AFCRL	-
1966-S344	2439303.41	1966 Jun 26 2147:13	Nike Apache	-	Ferdinand 13	0.000	NDRE	SS	-	GSFC/AFCRL/DSRI/Kane	Ionos	AND	AnnalesGeo24,313	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S739	2439307.50	1966 Jul 1	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S360	2439313.84	1966 Jul 7 0815	Nike Apache	-	NASA 14.59IE	0.000	GSFC	SS	-	PRL/Sastry,Prakash	Plasma	WDCRF	PlanSpaSci20,47	-
1966-S742	2439313.94	1966 Jul 7 1038	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S365	2439318.30	1966 Jul 11 1918	Nike Apache	-	NASA 14.96UA	0.000	GSFC	SS	-	UMI/Schaefer	Aeronomy	WDCRF	-	-
1966-S372	2439321.14	1966 Jul 14 1515	Nike Apache	-	NASA 14.166II	0.000	GSFC	SS	-	BREI/Rawer	Ionos	WDCRF	-	-
1966-S743	2439322.30	1966 Jul 15 1909	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S354	2439322.50	1966 Jul 16	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S374	2439323.54	1966 Jul 17 0056	Nike Apache	-	NASA 14.291CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1966-S376	2439323.71	1966 Jul 17 0500:00	Nike Apache	-	NASA 14.292CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	SAOLab	WDCRF	-
1966-S377	2439323.78	1966 Jul 17 0645	Nike Apache	-	NASA 14.293CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1966-S378	2439323.85	1966 Jul 17 0825	Nike Apache	-	NASA 14.294CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1966-S379	2439323.88	1966 Jul 17 0908	Nike Apache	-	NASA 14.295CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1966-S744	2439325.49	1966 Jul 18 2340	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	DTIC	-	-
1966-S383	2439327.33	1966 Jul 20 1950	Nike Apache	-	NASA 14.218GE	0.000	GSFC	SS	-	GSFC/Fichtel	Solar particles	WDCRF	APLTD-6809	-
1966-S349	2439327.50	1966 Jul 21	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-A89	2439329.30	1966 Jul 22 1919	Nike	-	Smoke 103	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S351	2439330.75	1966 Jul 24 0605	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S352	2439330.81	1966 Jul 24 0730	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S353	2439330.88	1966 Jul 24 0900	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S738	2439330.93	1966 Jul 24 1015	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S740	2439330.99	1966 Jul 24 1145	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S741	2439331.04	1966 Jul 24 1300	Nike Cajun	-	-	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S350	2439335.21	1966 Jul 28 1700	Nike Apache	-	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S401	2439334.61	1966 Jul 28 0236:00	Nike Tomahawk	12	Sandia 152-54	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1966-S406	2439337.50	1966 Aug	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S418	2439338.79	1966 Aug 1 0700	Nike Apache	-	ERDA 66-24	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AD738848	AFCRL	-
1966-S420	2439338.88	1966 Aug 1 0906	Nike Apache	-	ERDA 66-25	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AD738848	-	-
1966-S421	2439339.00	1966 Aug 1 1200	Nike Apache	-	ERDA 66-26	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AD738848	-	-
1966-S408	2439339.26	1966 Aug 1 1811	Nike Apache	-	ERDA 66-22	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR8-845	WDCRF	-
1966-S409	2439339.38	1966 Aug 1 2105	Nike Apache	-	ERDA 66-23	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR8-845	WDCRF	-
1966-S410	2439339.50	1966 Aug 2	Nike Tomahawk	9	Sandia 152-29	0.000	SAND	SS	-	SAND/	Tech	FDS	-	-
1966-S411	2439339.50	1966 Aug 2	Nike Tomahawk	9	Sandia 152-102	0.000	SAND	SS	-	SAND/	Tech	FDS	-	-
1966-S752	2439341.21	1966 Aug 3 1700	Nike Apache	-	-	0.000	MICOM	MS	-	NMSU/	Target	AD738848	-	-
1966-S404	2439341.90	1966 Aug 4 0930	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S414	2439341.50	1966 Aug 4	Nike Tomahawk	12	Sandia 152-19	0.000	SAND	SS	-	SAND/USU/Baker	Aeron	FDS	SandNews660325	-
1966-S415	2439341.50	1966 Aug 4	Nike Tomahawk	9	Sandia 152-32	0.000	SAND	SS	-	SAND/	Tech	FDS	-	-
1966-S416	2439341.50	1966 Aug 4	Nike Tomahawk	9	Sandia 152-85	0.000	SAND	SS	-	SAND/	Tech	FDS	-	-
1966-S422	2439344.79	1966 Aug 7 0700	Nike Apache	-	NASA 14.296GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S423	2439344.80	1966 Aug 7 0705	Nike Cajun	-	NASA 10.204GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S424	2439344.86	1966 Aug 7 0845	Nike Apache	-	-	0.000	ISRO	SS	-	ISRO/	Ionos	WDCRF	-	-
1966-S425	2439344.88	1966 Aug 7 0904	Nike Cajun	-	NASA 10.202GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S426	2439344.91	1966 Aug 7 0948:51	Nike Apache	-	NASA 14.289UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	FC	-
1966-S427	2439345.23	1966 Aug 7 1735	Nike Cajun	-	NASA 10.203GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S428	2439345.37	1966 Aug 7 2046	Nike Cajun	-	NASA 10.206GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S429	2439345.48	1966 Aug 7 2326	Nike Cajun	-	NASA 10.205GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S434	2439348.50	1966 Aug 11	Nike Tomahawk	9	Sandia 152-86	0.000	SAND	SS	-	SAND/	Tech	FDS	-	-
1966-S438	2439352.36	1966 Aug 14 2035	Nike Cajun	-	NASA 10.200GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S439	2439352.84	1966 Aug 15 0808	Nike Cajun	-	NASA 10.201GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S441	2439353.40	1966 Aug 15 2135	Nike Apache	-	NASA 14.170UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy/Meteorites	WDCRF	-	-
1966-S446	2439355.33	1966 Aug 17 1950	Aerobee 350	-	NASA 17.02GT-GI-GS	0.000	GSFC	SS	-	GSFC/Lane,Cartwright	Test/Iono-solar	SRctCon67-54	WI-PR-66-44	-
1966-S452	2439362.38	1966 Aug 24 2100	Nike Apache	-	NASA 14.183UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	-	-
1966-S453	2439362.47	1966 Aug 24 2315	Nike Apache	-	NASA 14.271UI	0.000	GSFC	SS	-	UIUC/Smith.L,Bowhill	Ionos	WDCRF	-	-
1966-S455	2439362.53	1966 Aug 25 0045	Nike Apache	-	NASA 14.272UI	0.000	GSFC	SS	-	UIUC/Smith.L,Bowhill	Ionos	WDCRF	-	-
1966-S458	2439364.27	1966 Aug 26 1831	Nike Tomahawk	-	NASA 18.05GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	JGR78,2265	WDCRF	-
1966-S459	2439364.29	1966 Aug 26 1851	Nike Tomahawk	-	NASA 18.06GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	WDCRF	-	-
1966-S460	2439364.30	1966 Aug 26 1911:00	Nike Apache	-	NASA 14.285UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1966-S463	2439365.67	1966 Aug 28 0403:00	Nike Tomahawk	-	NASA 18.22GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	UM	-	-
1966-S462	2439365.68	1966 Aug 28 0423:00	Nike Apache	-	NASA 14.286UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1966-S405	2439368.11	1966 Aug 30 1440	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S471	2439368.50	1966 Sep	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S472	2439368.50	1966 Sep	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S473	2439368.50	1966 Sep	Nike Apache	?	BMRS	0.000	AFBSD	MS	-	-	Target	WSMR	-	-
1966-S477	2439370.29	1966 Sep 1 1858	Nike Tomahawk	-	NASA 18.18UE	0.000	GSFC	SS	-	UCB/Anderson,Chase	Plasma	WDCRF	-	-
1966-S479	2439371.11	1966 Sep 2 1437	Nike Apache	-	NASA 14.219GE	0.000	GSFC	SS	-	GSFC/Fichtel	Solar particles	FC	-	-
1966-S480	2439371.44	1966 Sep 2 2227	Nike Apache	-	NASA 14.220GE	0.000	GSFC	SS	-	GSFC/Fichtel	Solar particles	WDCRF	APLTD-6809	-
1966-S482	2439372.23	1966 Sep 3 1724	Nike Apache	-	NASA 14.221GE	0.000	GSFC	SS	-	GSFC/Fichtel	Solar particles	WDCRF	APLTD-6809	-
1966-S483	2439375.02	1966 Sep 6 1227	Nike Tomahawk	-	NASA 18.20UE	0.000	GSFC	SS	-	UCB/Anderson,Chase	Plasma	FC	-	-
1966-S484	2439375.25	1966 Sep 6 1802	Nike Tomahawk	-	NASA 18.21UE	0.000	GSFC	SS	-	UCB/Anderson,Chase	Plasma	FC	-	-
1966-S469	2439378.12	1966 Sep 9 1500	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1966-S485	2439382.57	1966 Sep 14 0135:22	Nike Apache	-	NASA 14.278CA	0.000	GSFC	SS	-	GCA/LSmith,Bedinger	Aeronomy	GCA-TR-67-11-N	-	-
1966-S486	2439382.68	1966 Sep 14 0423:00	Nike Apache	-	NASA 14.279CA	0.000	GSFC	SS	-	GCA/LSmith,Bedinger	Aeronomy	GCA-TR-67-11-N	-	-
1966-S489	2439384.56	1966 Sep 16 0122:00	Nike Apache	-	NASA 14.280CA-CI	0.000	GSFC	SS	-	GCA/LSmith,Bedinger	Ionos	GCA-TR-67-11-N	-	-
1966-S490	2439384.62	1966 Sep 16 0300:00	Nike Apache	-	NASA 14.281CA-CI	0.000	GSFC	SS	-	GCA/LSmith,Bedinger	Ionos	GCA-TR-67-11-N	-	-
1966-S491	2439384.68	1966 Sep 16 0417	Nike Apache	-	NASA 14.282CA-CI	0.000	GSFC	SS	-	GCA/LSmith,Bedinger	Ionos	WDCRF	GCA-TR-67-11-N	-
1966-S492	2439385.16	1966 Sep 16 1554	Nike Apache	-	NASA 14.164UI	0.000	GSFC	SS	-	UMD/Schmerling,Bettinger	Ionos	WDCRF	-	-
1966-U07	2439385.58	1966 Sep 17 0157	Nike Cajun	-	Meteor 9	0.000	LARCN	SS	-	LARC/Ayers	Reentry Test	SAO-SR317	-	-
1966-S493	2439385.62	1966 Sep 17 0253	Nike Tomahawk	-	NASA 18.19UE	0.000	GSFC	SS	-	UCB/Anderson,Chase	Plasma	WDCRF	-	-
1966-S494	2439387.50	1966 Sep 19	Nike Tomahawk	9	Sandia 152-25	0.000	SAND	SS	-	SAND/	Aeron	FDS	-	-
1966-S731	2439389.18	1966 Sep 20 1613	Nike Hydac	-	STV SR-38	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S499	2439389.15	1966 Sep 20 1534:00	Nike Tomahawk	12	Sandia 152-99	0.000	SAND	SS	-	LRL/Chodil,Seward	XR Astron	FDS	UCRL-50587	-
1966-S502	2439391.22	1966 Sep 22 1710:00	Nike Tomahawk	12	Sandia 152-98	0.000	SAND	SS	-	LRL/Seward,Toor	XR Astron	FDS	UCRL-50587	-
1966-A109	2439392.33	1966 Sep 23 1951	Nike	-	Smoke 104	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S505	2439393.91	1966 Sep 25 0951	Nike Tomahawk	-	NASA 18.26IA	0.000	GSFC	SS	-	MPE/Neuss	Aeronomy	SP-264	-	-
1966-S733	2439396.11	1966 Sep 27 1435	Nike Hydac	-	STV SR-39	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S470	2439395.50	1966 Sep 27	Nike Apache	-	BMTS	0.000	MICOM	MF	U	-	Target	WSMR	-	-
1966-S753	2439397.22	1966 Sep 28 1720	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S515	2439399.23	1966 Sep 30 1735	Nike Cajun	-	NASA 10.146GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S516	2439399.49	1966 Sep 30 2350	Nike Apache	-	NASA 14.217GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S518	2439399.73	1966 Oct 1 0530	Nike Cajun	-	NASA 10.209GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S519	2439399.85	1966 Oct 1 0823	Nike Cajun	-	NASA 10.211GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S521	2439399.98	1966 Oct 1 1127	Nike Cajun	-	NASA 10.210GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S522	2439400.36	1966 Oct 1 2039	Nike Cajun	-	NASA 10.212GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S523	2439400.60	1966 Oct 2 0220	Nike Cajun	-	NASA 10.213GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S524	2439400.85	1966 Oct 2 0820	Nike Cajun	-	NASA 10.214GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S525	2439401.09	1966 Oct 2 1409	Nike Cajun	-	NASA 10.215GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1966-S732	2439403.08	1966 Oct 4 1402	Nike Hydac	-	STV SR-40	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S511	2439404.34	1966 Oct 5 2004	Nike Apache	-	BMRS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1966-A117	2439406.30	1966 Oct 7 1912	Nike	-	Smoke 105	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S537	2439409.21	1966 Oct 10 1657	Nike Iroquois	-	CRL AF07.348	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1966-A118	2439409.22	1966 Oct 10 1720	Nike Iroquois	-	CRL AF07.349	0.000	AFCRL	SF	U	AFCRL/Faucher	Aeron	AFCRL	-	-
1966-A119	2439410.26	1966 Oct 11 1817	Nike	-	Smoke 106	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-S512	2439411.20	1966 Oct 12 1648	Nike Apache	-	BMRS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1966-S735	2439411.32	1966 Oct 12 1941	Nike Apache	-	BMRS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1966-S544	2439413.22	1966 Oct 14 1720	Nike Iroquois	-	CRL AE07.813	0.000	AFCRL	SS	-	AFCRL/Harrison	Ionos	AFCRL	-	-
1966-S734	2439424.31	1966 Oct 25 1920	Nike Hydac	-	STV SR-41	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S562	2439424.26	1966 Oct 25 1810	Nike Cajun	-	NASA 10.181AI	0.000	GSFC	SS	-	ESSA/Whipple	Ionos	WDCRF	CR-87542	-
1966-A125	2439427.26	1966 Oct 28 1809	Nike	-	Smoke 107	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1966-M38	2439429.09	1966 Oct 30 1406	Nike Cajun	-	CRL AC6.710	0.000	AFCRL	SS	-	AFCRL/Toolin	Tech	AFCRL	-	-
1966-S572	2439429.50	1966 Nov	Nike Apache	?	BMRS	0.000	SAMSO	MS	-	-	Target	WSMR	-	-
1966-S587	2439435.12	1966 Nov 5 1455:21	Nike Hydac	-	Cert. Round	0.000	AFCRL	SS	-	AFCRL/UUT/Narcisi	Test	AFCRL2	-	-
1966-M39	2439435.15	1966 Nov 05 1535:00	Nike Javelin	-	Cert. Round	0.000	DASA/BRL	SS	-	PSU/Baker,Hale	Ionos	WDCRF	PSU-323	-
1966-S590	2439438.23	1966 Nov 8 1732	Nike Tomahawk	-	NASA 18.04GE	0.000	GSFC	SS	-	GSFC/Aggson,Heppner	Plasma	WDCRF	-	-
1966-S596	2439440.69	1966 Nov 11 0433	Nike Apache	-	NASA 14.287IE	0.000	GSFC	SS	-	MPE/Keppler	Plasma	FC	-	-
1966-S602	2439442.00	1966 Nov 12 1200	Nike Tomahawk	9	Sandia 152-93	0.000	SAND	SS	-	SAND/	Solar X/Eclipse	FDS	-	-
1966-M41	2439442.07	1966 Nov 12 1338:00	Nike Javelin	-	D-003C	0.000	DASA/BRL	SS	-	PSU/Baker,Hale	Ionos	WDCRF	SR10,712	-
1966-S610	2439442.07	1966 Nov 12 1345?	Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/	Solar	WDCRF	-	-
1966-M43	2439442.08	1966 Nov 12 1350:00	Nike Javelin	-	D-015C	0.000	DASA/BRL	SS	-	PSU/Baker,Hale	Ionos	WDCRF	PSU-323	-
1966-S611	2439442.08	1966 Nov 12 1355:19	Nike Hydac	-	D-4	0.000	AFCRL	SS	-	AFCRL/UUT/Narcisi	Ionos	AFCRL2	-	-
1966-S605	2439442.08	1966 Nov 12 1401:59	Nike Apache	-	NASA 14.77CA	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy/Eclipse	GCA-TR-67-11-N	-	-
1966-S606	2439442.09	1966 Nov 12 1405	Nike Apache	-	NASA 14.274UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos/Eclipse	WDCRF	RadioSci4,371	-
1966-S607	2439442.09	1966 Nov 12 1407	Nike Apache	-	NASA 14.302UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos/Eclipse	WDCRF	RadioSci4,371	-
1966-S604	2439442.09	1966 Nov 12 1407	Nike Tomahawk	9	Sandia 152-94	0.000	SAND	SS	-	SAND/	Solar X/Eclipse	USCOSPAR67	FDS	-
1966-M42	2439442.09	1966 Nov 12 1408:00	Nike Javelin	-	D-010C	0.000	DASA/BRL	SS	-	PSU/Baker,Hale	Ionos	WDCRF	PSU-323	Or 1450? (USCO)
1966-S612	2439442.09	1966 Nov 12 1408:37	Nike Hydac	-	D-11	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	WDCRF	AFCRL2	-
1966-S608	2439442.09	1966 Nov 12 1410	Nike Apache	-	NASA 14.304UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos/Eclipse	WDCRF	RadioSci4,371	-
1966-S613	2439442.10	1966 Nov 12 1422:30	Nike Hydac	-	D-13	0.000	AFCRL	SS	-	AFCRL/UUT/	Ionos	WDCRF	AFCRL2	-
1966-S609	2439442.11	1966 Nov 12 1443	Nike Tomahawk	9	Sandia 152-95	0.000	SAND	SS	-	SAND/	Solar X/Eclipse	USCOSPAR67	FDS	-
1966-M44	2439442.15	1966 Nov 12 1535:00	Nike Javelin	-	D-016C	0.000	DASA/BRL	SS	-	PSU/Baker,Hael	Ionos	WDCRF	PSU-323	-
1966-S614	2439442.17	1966 Nov 12 1600	Nike Apache	-	NASA 14.303UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos/Eclipse	WDCRF	RadioSci4,371	-
1966-S621	2439445.06	1966 Nov 15 1323	Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/	Solar	JCM	-	-
1966-S750	2439445.16	1966 Nov 15 1545	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S662	2439448.38	1966 Nov 18 2100	Nike Apache	-	BMRS	0.000	MICOM	MS	-	-	Target	WSMR	DTIC	-
1966-S633	2439448.43	1966 Nov 18 2215	Nike Apache	-	NASA 14.299UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy	WDCRF	-	-
1966-S736	2439448.46	1966 Nov 18 2300	Nike Apache	-	BMRS	0.000	MICOM	MS	-	-	Target	WSMR	DTIC	-
1966-S737	2439448.54	1966 Nov 19 0100	Nike Apache	-	BMRS	0.000	MICOM	MS	-	-	Target	WSMR	DTIC	-
1966-S729	2439452.17	1966 Nov 22 1602	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S664	2439460.30	1966 Nov 30 1906	Nike Tomahawk	-	NASA 18.27UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	-	-
1966-S730	2439461.14	1966 Dec 1 1523	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1966-S674	2439468.96	1966 Dec 9 1100	Nike Cajun	-	NASA 10.160GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1966-S686	2439473.84	1966 Dec 14 0816	Astrobee 200	-	CRL AC15.735	0.000	AFCRL	SS	-	AFCRL/Ulwick	CR/Aurora	AFCRL	AnnalesGeo24,285	-
1967-S627	2439496.17	1967 Jan 5 1600	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1967-S632	2439502.22	1967 Jan 11 1722	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-A48	2439502.44	1967 Jan 11 2231	Nike Iroquois	-	CRL AF07.500	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S56	2439506.99	1967 Jan 16 1148	Nike Iroquois	-	CRL AF07.654	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	SarasotaJnl670117	AFCRL	-
1967-S57	2439507.48	1967 Jan 16 2334	Nike Iroquois	-	CRL AF07.503	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	SarasotaJnl670117	AFCRL	-
1967-S58	2439507.50	1967 Jan 17 0004	Nike Iroquois	-	CRL AF07.653	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	SarasotaJnl670117	AFCRL	-
1967-S65	2439510.47	1967 Jan 19 2322	Nike Iroquois	-	CRL AF07.655	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	AFCRL	-	-
1967-A50	2439510.47	1967 Jan 19 2322	Nike Iroquois	-	CRL AF07.656	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S69	2439513.79	1967 Jan 23 0700	Nike Apache	-	Sphere 37	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-S70	2439513.92	1967 Jan 23 1000	Nike Apache	-	Sphere	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-S71	2439514.04	1967 Jan 23 1300	Nike Apache	-	Sphere 35	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-S72	2439514.31	1967 Jan 23 1925	Nike Apache	-	Sphere 36	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-S625	2439515.25	1967 Jan 24 1800	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1967-S626	2439515.35	1967 Jan 24 2029	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1967-S75	2439514.88	1967 Jan 24 0900:00	Nike Tomahawk	-	MUMP-8 (ETR-1474)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S76	2439514.99	1967 Jan 24 1151:26	Nike Tomahawk	-	MUMP-6 (ETR-1828)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S77	2439515.13	1967 Jan 24 1508:54	Nike Tomahawk	-	MUMP-3 (ETR-1165)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S78	2439515.32	1967 Jan 24 1933:59	Nike Tomahawk	-	MUMP-1 (ETR-0381)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S79	2439515.45	1967 Jan 24 2250:00	Nike Tomahawk	-	MUMP-2 (ETR-0611)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S80	2439515.62	1967 Jan 25 0300:00	Nike Tomahawk	-	MUMP-7 (ETR-0851)	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S599	2439517.28	1967 Jan 26 1845	Nike Apache	-	ERDA 67-5 Sphere	0.000	AFCRL	SS	-	AFCRL/WSMR/Faire	Aeronomy	WDCRF	SR10,188	-
1967-S86	2439518.72	1967 Jan 28 0516	Nike Tomahawk	-	NASA 18.23GE	0.000	GSFC	SS	-	GSFC/Evans,Aggson	Aeron/Ionos	WDCRF	SP-4008	-
1967-S92	2439522.28	1967 Jan 31 1850	Nike Apache	-	NASA 14.275UI	0.000	GSFC	SS	-	UIUC/Bowhill	Aeron/Ionos	WDCRF	-	-
1967-S93	2439522.30	1967 Jan 31 1911	Nike Cajun	-	NASA 10.207GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S95	2439522.47	1967 Jan 31 2317:00	Nike Apache	-	NASA 14.319UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S96	2439522.47	1967 Jan 31 2320	Nike Apache	-	NASA 14.310CM	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	-	-
1967-S97	2439522.49	1967 Jan 31 2348	Nike Cajun	-	NASA 10.216GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-A55	2439522.55	1967 Feb 1 0109	Nike Apache	-	NASA 14.315UM	0.000	GSFC	SF	U	UMI/Horvath	Aeronomy	WDCRF	SP-4008	-
1967-S98	2439522.55	1967 Feb 1 0112	Nike Apache	-	NASA 14.311CM	0.000	GSFC	SS	-	GCA/Smith,Bedinger	Aeronomy	WDCRF	SP-4008	-
1967-S99	2439522.57	1967 Feb 1 0141	Nike Cajun	-	NASA 10.217GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S100	2439522.66	1967 Feb 1 0346	Nike Apache	-	NASA 14.317UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S101	2439522.66	1967 Feb 1 0349	Nike Apache	-	NASA 14.312CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S102	2439522.68	1967 Feb 1 0418	Nike Cajun	-	NASA 10.218GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S103	2439522.73	1967 Feb 1 0538:00	Nike Apache	-	NASA 14.318UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S104	2439522.74	1967 Feb 1 0541	Nike Apache	-	NASA 14.313CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1967-S105	2439522.82	1967 Feb 1 0741	Nike Cajun	-	NASA 10.219GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S106	2439522.85	1967 Feb 1 0825:59	Nike Apache	-	NASA 14.316UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S107	2439522.85	1967 Feb 1 0829	Nike Apache	-	NASA 14.323CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1967-S108	2439522.91	1967 Feb 1 0956	Nike Cajun	-	NASA 10.220GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S109	2439522.98	1967 Feb 1 1124	Nike Apache	-	NASA 14.314CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	WDCRF	-	-
1967-S110	2439523.00	1967 Feb 1 1158:00	Nike Apache	-	NASA 14.322UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S111	2439523.10	1967 Feb 1 1426	Nike Cajun	-	NASA 10.221GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S114	2439525.24	1967 Feb 3 1752	Nike Cajun	-	NASA 10.222GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-A151	2439536.50	1967 Feb 15	Nike Nike	-	Sandia 158-11	0.000	SAND	AS	-	SAND/Pepper	Test	JAircraft6901-74	-	-
1967-S664	2439543.38	1967 Feb 21 2104	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S132	2439549.66	1967 Feb 28 0347	Nike Tomahawk	12	Sandia 152-100	0.000	SAND	SS	-	LASL/Theobald	Auroral	FC	SandNews670324	-
1967-S130	2439549.50	1967 Mar	Nike Hydac	?	STV	0.000	MICOM	SS	-	WSMR/	Aeron?	WSMR	-	-
1967-S137	2439553.50	1967 Mar 3 2358	Nike Apache	-	Ferdinand 14	0.000	NDRE	SS	-	GSFC/NDRE/Kane,Folkestad	Ionos/Plasma	AND	WDCRF	-
1967-S140	2439554.38	1967 Mar 4 2105	Nike Iroquois	-	CRL AF07.582	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1967-S142	2439555.63	1967 Mar 6 0305	Nike Iroquois	-	CRL AF07.583	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1967-S143	2439556.06	1967 Mar 6 1327	Nike Apache	-	NASA 14.161IA	0.000	GSFC	SS	-	PRL/Bhavsar	Aeronomy	WDCRF	-	-
1967-S147	2439558.71	1967 Mar 9 0507	Nike Tomahawk	-	NASA 18.24GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral	WDCRF	SP-4008	-
1967-S148	2439559.06	1967 Mar 9 1327	Nike Apache	-	NASA 14.162IA	0.000	GSFC/INCO	SS	-	PRL/Bhavsar	Aeronomy	WDCRF	-	-
1967-S149	2439562.06	1967 Mar 12 1327	Nike Apache	-	NASA 14.163IA-II	0.000	GSFC/INCO	SS	-	PRL/Subbaraya	Ionos	WDCRF	PlanSpaSci22,180	-
1967-S150	2439562.21	1967 Mar 12 1700	Nike Apache	-	NASA 14.206IA	0.000	GSFC/INCO	SS	-	PRL/Prakash?	Ionos/Aeronomy	WDCRF	GCA-TR-67-11-N	-
1967-S154	2439562.51	1967 Mar 13 0014	Nike Apache	-	NASA 14.267IA	0.000	GSFC/INCO	SS	-	PRL/Prakash?	Ionos/Aeronomy	WDCRF	-	-
1967-S157	2439564.49	1967 Mar 14 2346:10	Nike Apache	-	Ferdinand 15	0.000	NDRE	SS	-	NICP/NDRE/Maseide,Skovli	Ionos	AND	WDCRF	-
1967-S160	2439566.30	1967 Mar 16 1905	Nike Apache	-	NASA 14.256II	0.000	GSFC	SS	-	PRL/Somayajulu	Ionos	WDCRF	-	-
1967-S170	2439577.27	1967 Mar 27 1835	Nike Tomahawk	-	NASA 18.28UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	SP-4008	-
1967-S628	2439578.19	1967 Mar 28 1633	Nike Hydac	-	-	0.000	SAMSO	SS	-	WSMR/	Aeron?	www.dtic.mil	-	-
1967-S179	2439580.30	1967 Mar 30 1909	Nike Tomahawk	-	NASA 18.12UI	0.000	GSFC	SS	-	GCA/UMD/Bettinger	Ionos	WDCRF	SP-4008	-
1967-S184	2439580.50	1967 Mar 31 0001	Nike Tomahawk	-	NASA 18.09GE	0.000	GSFC	SS	-	GSFC/Wescott	Plasma	WDCRF	SP-4008	-
1967-S185	2439580.63	1967 Mar 31 0303	Nike Apache	-	NASA 14.283CA	0.000	GSFC	SS	-	GCA/Pressman	Aeronomy	WDCRF	SP-4008	-
1967-S187	2439581.22	1967 Mar 31 1719	Nike Cajun	-	NASA 10.208GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S191	2439584.51	1967 Apr 4 0010	Nike Cajun	-	NASA 10.226GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S199	2439588.33	1967 Apr 7 1957:00	Nike Apache	-	NASA 14.328IE	0.000	GSFC/DLR	SS	-	MPE/Rieger	Auroral/B	Moraba	-	-
1967-S200	2439589.34	1967 Apr 8 2003:00	Nike Apache	-	NASA 14.329IE	0.000	GSFC/DLR	SS	-	MPE/Rieger	Auroral/B	Moraba	-	-
1967-S201	2439589.54	1967 Apr 9 0100:00	Nike Apache	-	NASA 14.330IE	0.000	GSFC	SS	-	MPE/Rieger	Auroral/B	Moraba	-	-
1967-S203	2439591.34	1967 Apr 10 2014:00	Nike Apache	-	NASA 14.331IE	0.000	GSFC	SS	-	MPE/Rieger	Auroral/B	Moraba	-	-
1967-S204	2439591.38	1967 Apr 10 2100	Nike Cajun	-	NASA 10.227GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S205	2439592.22	1967 Apr 11 1715	Nike Cajun	-	NASA 10.223GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S206	2439592.35	1967 Apr 11 2021:00	Nike Apache	-	NASA 14.332IE	0.000	GSFC	SS	-	MPE/Rieger	Auroral	Moraba	-	-
1967-S211	2439593.50	1967 Apr 13 0001	Nike Iroquois	-	CRL AF07.168	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Aeron	AFCRL	-	-
1967-S212	2439593.53	1967 Apr 13 0049	Nike Iroquois	-	CRL AF07.385	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Aeron	AFCRL	-	-
1967-S213	2439593.54	1967 Apr 13 0056	Nike Iroquois	-	CRL AG07.622	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S214	2439593.54	1967 Apr 13 0057	Nike Iroquois	-	CRL AG07.623	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S216	2439593.81	1967 Apr 13 0722	Nike Cajun	-	CRL AF6.561	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	-	-
1967-S215	2439593.81	1967 Apr 13 0724	Nike Tomahawk	-	CRL AF08.647	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Faire	Aeron	SR9,343	AFCRL	-
1967-S218	2439598.93	1967 Apr 18 1020	Nike Iroquois	-	CRL AF07.384	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Ionos	AFCRL	-	-
1967-M07	2439598.93	1967 Apr 18 1025	Nike Iroquois	-	CRL AF07.624	0.000	AFCRL	SS	-	AFCRL/Rosenberg,Ulwick	Aeron	AFCRL	-	-
1967-A69	2439598.93	1967 Apr 18 1025	Nike Iroquois	-	CRL AF07.625	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Aeron	AFCRL	-	-
1967-S219	2439598.97	1967 Apr 18 1121	Nike Iroquois	-	CRL AF07.386	0.000	AFCRL	SS	-	AFCRL/Narcisi,Sagalyn	Aeron	AFCRL	-	-
1967-S220	2439598.99	1967 Apr 18 1140	Nike Iroquois	-	CRL AF07.560	0.000	AFCRL	SS	-	AFCRL/Sagalyn,Faire	Aeron	SR9,343	AFCRL	-
1967-S221	2439599.34	1967 Apr 18 2008	Nike Cajun	-	NASA 10.228GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S224	2439600.53	1967 Apr 20 0040	Nike Tomahawk	-	CRL AF08.650	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S226	2439601.23	1967 Apr 20 1732	Nike Cajun	-	NASA 10.224GM	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S81	2439605.77	1967 Apr 25 0630:00	Nike Tomahawk	-	MUMP-4	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S82	2439606.29	1967 Apr 25 1900:00	Nike Tomahawk	-	MUMP-5	0.000	MSFC	SS	-	UMI/MSFC/Nagy,Roberts	Aeron/Ionos	WDCRF	-	-
1967-S237	2439608.55	1967 Apr 28 0112	Nike Tomahawk	-	CRL AF08.651	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S238	2439610.49	1967 Apr 29 2339	Nike Cajun	-	NASA 10.225GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S241	2439610.57	1967 Apr 30 0140	Nike Cajun	-	NASA 10.229GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S633	2439613.24	1967 May 2 1745	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/	Target	DTIC	-	-
1967-S243	2439615.34	1967 May 4 2007	Nike Cajun	-	NASA 10.232GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S250	2439616.21	1967 May 5 1700	Nike Apache	-	NASA 14.268UI	0.000	GSFC	SS	-	UTD/Heikkila	Auroral/Test	WDCRF	SP-4008	-
1967-S253	2439619.81	1967 May 9 0720	Nike Cajun	-	NASA 10.230GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S258	2439621.85	1967 May 11 0825	Nike Cajun	-	NASA 10.233GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-M10	2439621.87	1967 May 11 0855	Nike Cajun	-	NASA 10.161GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	SP-4008	-
1967-S259	2439625.99	1967 May 15 1140	Nike Cajun	-	NASA 10.231GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S634	2439628.12	1967 May 17 1500	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/	Target	DTIC	-	-
1967-S263	2439628.76	1967 May 18 0616	Nike Tomahawk	12	Sandia 152-56	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1967-A83	2439630.50	1967 May 20	Nike Tomahawk	12	Sandia 152-97	0.000	SAND	SF	U	LRL/	XR Astron	UCRL-50587	FDS	-
1967-S267	2439631.79	1967 May 21 0700	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S240	2439635.06	1967 May 24 1321	Nike Hydac	-	STV SR-056	0.000	SAMSO	SS	-	SAMSO/	Aeron?	WSMR	-	-
1967-S635	2439635.22	1967 May 24 1710	Nike Apache	-	-	0.000	MICOM	SS	-	NMSU/	Target	DTIC	-	-
1967-S654	2439640.50	1967 May 30	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S655	2439640.50	1967 May 30?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S656	2439640.50	1967 May 30?	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S657	2439641.50	1967 May 31?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S658	2439641.50	1967 May 31?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-A89	2439642.04	1967 May 31 1300	Nike Apache	-	NASA 14.300UA	0.000	GSFC	SF	U	DUD/Hemenway	Meteorites	WDCRF	SP-4008	-
1967-S275	2439641.50	1967 Jun	Nike Hydac	?	STV	0.000	SAMSO	SS	-	SAMSO/	Aeron?	WSMR	-	-
1967-S659	2439642.50	1967 Jun 1?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S660	2439642.50	1967 Jun 1?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S281	2439642.75	1967 Jun 1 0554	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S282	2439642.78	1967 Jun 1 0645	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S283	2439642.84	1967 Jun 1 0815	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S284	2439642.92	1967 Jun 1 1000	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S285	2439642.94	1967 Jun 1 1030	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S286	2439643.02	1967 Jun 1 1225	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S661	2439643.50	1967 Jun 2?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S662	2439643.50	1967 Jun 2?	Nike Apache	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S663	2439643.50	1967 Jun 2?	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron	PMRHist67	-	-
1967-S290	2439643.90	1967 Jun 2 0934	Nike Apache	?	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron/Solar	WDCRF	-	-
1967-S291	2439644.74	1967 Jun 3 0547	Nike Apache	-	-	0.000	SAND	SS	-	SAND/Smith.LB	Aeron	WDCRF	-	-
1967-S294	2439648.43	1967 Jun 6 2219	Nike Tomahawk	-	NASA 18.29UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	SP-4008	-
1967-S295	2439649.06	1967 Jun 7 1320	Nike Iroquois	-	CRL AG07.272	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	AFCRL	-	-
1967-S301	2439655.46	1967 Jun 13 2308	Nike Apache	-	NASA 14.297CE	0.000	GSFC	SS	-	ASE/Waters	Plasma	WDCRF	SP-4008	-
1967-S320	2439665.85	1967 Jun 24 0826	Nike Cajun	-	NASA 10.238GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy Fall Equinox	WDCRF	-	-
1967-S321	2439666.36	1967 Jun 24 2035	Nike Cajun	-	NASA 10.237GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S322	2439666.86	1967 Jun 25 0834	Nike Cajun	-	NASA 10.239GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S327	2439677.40	1967 Jul 5 2133	Nike Apache	-	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1967-S329	2439679.12	1967 Jul 7 1453	Nike Apache	-	STV	0.000	SAMSO	SS	-	SAMSO/	Aeron?	WSMR	-	-
1967-S355	2439694.54	1967 Jul 23 0053	Nike Apache	-	NASA 14.337CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	SP-4008	-
1967-S328	2439698.17	1967 Jul 26 1610	Nike Apache	-	BMTS	0.000	MICOM	MF	U	NMSU/	Target	WSMR	-	-
1967-S636	2439698.25	1967 Jul 26 1800	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1967-S360	2439701.52	1967 Jul 30 0030	Nike Cajun	-	OB6.03C?	0.000	BRL?	SS	-	BRL/?	Plasma	WDCRF	-	-
1967-S665	2439704.31	1967 Aug 1 1925	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1967-S637	2439705.36	1967 Aug 2 2034	Nike Apache	-	BMTS	0.000	MICOM	MF	U	NMSU/	Target	WSMR	-	-
1967-S366	2439705.97	1967 Aug 3 1110:01	Nike Apache	-	NASA 14.97UM	0.000	GSFC	SS	-	UMI/Smith	Aeronomy	WDCRF	-	-
1967-S369	2439707.58	1967 Aug 5 0159	Nike Apache	-	NASA 14.343GT-UA	0.000	GSFC	SS	-	GSFC/Wood	Test	WDCRF/SP-4401	-	-
1967-S370	2439707.91	1967 Aug 5 0956:00	Nike Apache	-	NASA 14.290UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1967-S378	2439711.50	1967 Aug 8 2356	Nike Apache	-	NASA 14.273UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1967-S379	2439711.61	1967 Aug 9 0243	Nike Apache	-	NASA 14.338CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	SP-4008	WDCRF	-
1967-S380	2439711.83	1967 Aug 9 0758	Nike Apache	-	NASA 14.340CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1967-S381	2439711.87	1967 Aug 9 0847	Nike Apache	-	NASA 14.339CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1967-S382	2439711.87	1967 Aug 9 0847	Nike Apache	-	NASA 14.342GM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1967-S383	2439711.89	1967 Aug 9 0928	Nike Apache	-	NASA 14.341CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1967-S638	2439712.34	1967 Aug 9 2006	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	WSMR	-	-
1967-A108	2439723.85	1967 Aug 21 0820	Nike Cajun	-	NASA 10.240GM	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	SP-4008	-
1967-S639	2439725.32	1967 Aug 22 1937	Nike Apache	-	BMTS	0.000	MICOM	MS	-	NMSU/	Target	AD839949	-	-
1967-S361	2439727.82	1967 Aug 25 0735	Nike Hydac	-	STV SR-058	0.000	SAMSO	SS	-	SAMSO/	Aeron?	WSMR	-	-
1967-S397	2439728.77	1967 Aug 26 0635	Nike Iroquois	-	CRL AF07.328	0.000	AFCRL	SS	-	AFCRL/McIsaac	Aeron	AFCRL	-	-
1967-S398	2439728.99	1967 Aug 26 1139	Nike Cajun	-	NASA 10.241GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S399	2439729.49	1967 Aug 26 2339	Nike Cajun	-	NASA 10.242GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S400	2439730.52	1967 Aug 28 0030	Nike Cajun	-	NASA 10.243GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S407	2439733.23	1967 Aug 30 1732	Nike Apache	-	-	0.000	CONAE	SS	-	TUC/DeRagone	Ionos	WDC	SP-4401	-
1967-S413	2439734.42	1967 Aug 31 2206:00	Nike Tomahawk	-	NASA 18.43GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	AND	WDCRF	-
1967-S414	2439734.45	1967 Aug 31 2247:52	Nike Tomahawk	-	NASA 18.46GE	0.000	GSFC	SS	-	GSFC/Heppner,Evans	Plasma	AND	WDCRF	-
1967-S415	2439736.23	1967 Sep 2 1737	Nike Apache	-	-	0.000	CONAE	SS	-	TUC/DeRagone	Ionos	WDC	SP-4401	-
1967-S416	2439736.35	1967 Sep 2 2031:00	Nike Tomahawk	-	NASA 18.44GE	0.000	GSFC	SS	-	GSFC/Heppner,Wescott	Plasma	AND	WDCRF	-
1967-S417	2439736.36	1967 Sep 2 2042:35	Nike Tomahawk	-	NASA 18.47GE	0.000	GSFC	SS	-	GSFC/Heppner,Evans	Plasma	AND	WDCRF	-
1967-S421	2439738.75	1967 Sep 5 0600	Nike Iroquois	-	CRL AG07.176	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL67	-	7Sep0500/AFCRL
1967-S425	2439741.36	1967 Sep 7 2034:57	Nike Tomahawk	12	Sandia 152-88	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1967-S424	2439741.36	1967 Sep 7 2034	Nike Apache	-	NASA 14.308UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1967-S429	2439741.50	1967 Sep 8 0007	Nike Apache	-	NASA 14.305UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1967-A116	2439741.92	1967 Sep 8 1003	Nike Apache	-	NASA 14.309UI	0.000	GSFC	SF	U	UIUC/Bowhill	Ionos	WDCRF	-	-
1967-S435	2439746.37	1967 Sep 12 2057:00	Nike Tomahawk	-	NASA 18.45GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	AND	WDCRF	-
1967-S436	2439746.37	1967 Sep 12 2059:49	Nike Tomahawk	-	NASA 18.48GE	0.000	GSFC	SF	U	GSFC/Heppner,Evans	Plasma	AND	WDCRF	-
1967-S432	2439746.52	1967 Sep 13 0026	Nike Apache	-	Speedball SN44	0.000	MICOM	SS	-	NMSU/	Aeron?	AD738848	-	-
1967-S640	2439748.56	1967 Sep 15 0130	Nike Javelin	-	MD-67-9.5-2	0.000	SAMSO?	SS	-	MEWTA/	Aeron?	DTIC	-	-
1967-S409	2439748.78	1967 Sep 15 0641	Nike Hydac	-	STV SR-060	0.000	SAMSO	SS	-	SAMSO/	Aeron?	WSMR	-	-
1967-A118	2439752.30	1967 Sep 18 1905	Nike Apache	-	NASA 14.334UM	0.000	GSFC	SF	U	UMI/Smith,Horvath	Aeronomy	WDCRF	SP-4008	-
1967-S439	2439752.30	1967 Sep 18 1910	Nike Tomahawk	-	NASA 18.50GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	WDCRF	SP-4008	-
1967-S440	2439753.29	1967 Sep 19 1853	Nike Apache	-	Round 110	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S441	2439754.21	1967 Sep 20 1700	Nike Apache	-	Round 111	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S443	2439754.50	1967 Sep 21	Nike Tomahawk	9	Sandia 152-101	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1967-S444	2439755.17	1967 Sep 21 1600	Nike Hydac	-	STV SR-059	0.000	SAMSO	SS	-	SAMSO/	Aeron?	DTIC	-	-
1967-S448	2439756.35	1967 Sep 22 2030	Nike Apache	-	Round 112	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S449	2439759.25	1967 Sep 25 1758	Nike Apache	-	Round 113	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S450	2439759.42	1967 Sep 25 2200	Nike Apache	-	Round 114	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S452	2439760.19	1967 Sep 26 1630	Nike Apache	-	Round 115	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S453	2439760.35	1967 Sep 26 2030	Nike Apache	-	Round 116	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1967-S457	2439762.51	1967 Sep 29 0015	Nike Tomahawk	12	Sandia 152-87	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1967-S464	2439765.81	1967 Oct 2 0722	Nike Tomahawk	12	Sandia 152-106	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1967-S465	2439766.33	1967 Oct 2 2000	Nike Cajun	-	CRL AD6.842	0.000	AFCRL	SS	-	AFCRL/Ellis	Tech	AFCRL	-	-
1967-S466	2439766.50	1967 Oct 3	Nike Tomahawk	9	Sandia 152-103	0.000	SAND	SS	-	LASL/	Solar	FDS	-	-
1967-S470	2439767.50	1967 Oct 4	Nike Tomahawk	9	Sandia 152-82	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1967-S471	2439767.51	1967 Oct 4 0020	Nike Tomahawk	-	CRL AH08.645	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	SP-4008	-
1967-S474	2439768.51	1967 Oct 5 0018	Nike Tomahawk	-	CRL AH08.646	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-A125	2439769.28	1967 Oct 5 1844	Nike	-	Smoke 204	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1967-A126	2439769.33	1967 Oct 5 1959	Nike	-	Smoke 205	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1967-S484	2439775.70	1967 Oct 12 0449	Nike Hydac	-	STV SR-061	0.000	SAMSO	SS	-	SAMSO/	Aeron?	DTIC	-	-
1967-S488	2439775.76	1967 Oct 12 0614	Nike Hydac	-	STV SR-062	0.000	SAMSO	SS	-	SAMSO/	Aeron?	DTIC	-	-
1967-S493	2439777.97	1967 Oct 14 1120	Nike Cajun	-	NASA 10.248GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S494	2439778.97	1967 Oct 15 1115	Nike Cajun	-	NASA 10.244GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S495	2439779.47	1967 Oct 15 2315	Nike Cajun	-	NASA 10.245GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S501	2439787.17	1967 Oct 23 1604:40	Nike Apache	-	K-NA-7	0.000	DLR	SS	-	MPE/Neuss	Aeron/Ionos/Fields	Moraba	-	-
1967-S502	2439788.22	1967 Oct 24 1714	Nike Iroquois	-	CRL AG07.637	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	SP-4008	-
1967-S503	2439788.46	1967 Oct 24 2300	Nike Iroquois	-	CRL AG07.638	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	-	-
1967-A130	2439790.21	1967 Oct 26 1709	Nike Iroquois	-	CRL AG07.639	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	-	-
1967-S507	2439791.22	1967 Oct 27 1714	Nike Iroquois	-	CRL AG07.640	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	-	-
1967-S508	2439791.89	1967 Oct 28 0915	Nike Iroquois	-	CRL AG07.641	0.000	AFCRL	SS	-	AFCRL/Sagalyn	Ionos	AFCRL	-	-
1967-S529	2439803.45	1967 Nov 8 2241	Nike Javelin	-	MD-67-9.5-3	0.000	WSMR	SS	-	MEWTA/	Aeron?	DTIC	-	-
1967-S538	2439811.26	1967 Nov 16 1814	Nike Apache	-	NASA 14.298UI	0.000	GSFC	SS	-	UMD/Bettinger	Ionos	WDCRF	SP-4008	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A152	2439811.50	1967 Nov 17	Nike Nike	-	Sandia 158-12	0.000	SAND	AS	-	SAND/Pepper	Test	JAircraft6901-74	-	-
1967-S541	2439813.92	1967 Nov 19 1008	Nike Iroquois	-	CRL AG07.314	0.000	AFCRL	SS	-	AFCRL/Hoult	Test	AFCRL	-	-
1967-S544	2439816.92	1967 Nov 22 1007	Nike Iroquois	-	CRL AG07.319	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL	-	-
1967-S545	2439817.74	1967 Nov 23 0539	Nike Tomahawk	-	NASA 18.34UE	0.000	GSFC	SS	-	UCB/Anderson	Plasma	FC	SP-4008	-
1967-S552	2439823.55	1967 Nov 29 0106	Nike Apache	-	NASA 14.250IM	0.000	GSFC	SS	-	SUPA/Rahmatullah,Rees	Aeronomy	CR-133401	SR10,167	-
1967-S553	2439824.45	1967 Nov 29 2251	Nike Iroquois	-	CRL AF07.658	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	WDCRF	AFCRL	-
1967-S554	2439824.45	1967 Nov 29 2251	Nike Iroquois	-	CRL AF07.661	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	WDCRF	AFCRL	-
1967-S558	2439828.45	1967 Dec 3 2253	Nike Iroquois	-	CRL AF07.657	0.000	AFCRL	SS	-	AFCRL/Lenhard	Aeron	WDCRF	AFCRL	-
1967-S559	2439828.45	1967 Dec 3 2253	Nike Iroquois	-	CRL AF07.662	0.000	AFCRL	SS	-	AFCRL/Lenhard	Aeron	WDCRF	AFCRL	-
1967-S562	2439829.43	1967 Dec 4 2220	Nike Iroquois	-	CRL AF07.880	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1967-S563	2439829.45	1967 Dec 4 2244	Nike Iroquois	-	CRL AF07.387	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1967-S564	2439829.64	1967 Dec 5 0324	Nike Tomahawk	-	NASA 18.66UA	0.000	GSFC	SS	-	UAF/Murray	Aeronomy	WDCRF	SP-4008	-
1967-S567	2439830.36	1967 Dec 5 2034:50	Nike Apache	-	NASA 14.288IE	0.000	GSFC/DLR	SS	-	BRSW/Pieper,Kep.	Aeron/Plasma	Moraba	WDCRF	-
1967-S571	2439831.27	1967 Dec 6 1825	Nike Iroquois	-	CRL AF07.388	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1967-S577	2439836.41	1967 Dec 11 2156	Nike Hydac	-	STV SR-069	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1967-S578	2439837.41	1967 Dec 12 2148	Nike Apache	-	NASA 14.347UA	0.000	GSFC	SS	-	UCO/Pearce	Aeronomy	WDCRF	SP-4008	-
1967-S579	2439837.42	1967 Dec 12 2159	Nike Cajun	-	NASA 10.249GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S580	2439837.86	1967 Dec 13 0843	Nike Iroquois	-	CRL AG07.627	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S581	2439837.89	1967 Dec 13 0923	Nike Iroquois	-	CRL AG07.630	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S743	2439837.86	1967 Dec 13 0840	Nike Iroquois	?	APGC-943	0.000	APGC	SS	-	-	Aeron	Ulrich	-	-
1967-S583	2439838.90	1967 Dec 14 0937	Nike Tomahawk	-	CRL AH08.665	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S584	2439838.92	1967 Dec 14 0958	Nike Iroquois	-	CRL AG07.631	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1967-S585	2439841.46	1967 Dec 16 2258	Nike Iroquois	-	CRL AG07.663	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	WDCRF	AFCRL	-
1967-S586	2439841.46	1967 Dec 16 2258	Nike Iroquois	-	CRL AG07.659	0.000	AFCRL	SS	-	AFCRL/Lenhard	Aeron	WDCRF	AFCRL	-
1967-S588	2439843.04	1967 Dec 18 1300	Nike Cajun	-	NASA 10.246GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S589	2439843.54	1967 Dec 19 0100	Nike Cajun	-	NASA 10.247GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1967-S590	2439844.05	1967 Dec 19 1310	Nike Cajun	-	NASA 10.250GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S84	2439872.30	1968 Jan 16 1914	Nike Cajun	-	NASA 10.273GI	0.000	GSFC	SS	-	GSFC/Somayajulu	Ionos	WDCRF/corr	-	-
1968-S85	2439872.31	1968 Jan 16 1929	Nike Cajun	-	NASA 10.275GI	0.000	GSFC	SS	-	GSFC/Somayajulu	Ionos	WDCRF	-	-
1968-S86	2439873.46	1968 Jan 17 2308	Nike Iroquois	-	CRL AG07.634	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1968-S89	2439875.47	1968 Jan 19 2310	Nike Iroquois	-	CRL AG07.633	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	FC	SR12,733,AFCRL	-
1968-S91	2439877.69	1968 Jan 22 0430	Nike Tomahawk	-	NASA 18.62GM	0.000	GSFC	SS	-	GSFC/Heath	Aeronomy	WDCRF	-	-
1968-S92	2439878.01	1968 Jan 22 1215	Nike Tomahawk	-	CRL AG08.648	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	-	-
1968-S93	2439878.06	1968 Jan 22 1320	Nike Iroquois	-	CRL AG07.635	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1968-S96	2439878.73	1968 Jan 23 0533	Nike Tomahawk	-	NASA 18.13UE	0.000	GSFC	SS	-	UAF/Davis,Mather	Aurora/Ionos	WDCRF	-	-
1968-A56	2439887.50	1968 Feb 1	Nike Cajun	-	NASA 10.255GM	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	SP-4401	-	-
1968-S107	2439888.29	1968 Feb 1 1853	Nike Cajun	-	NASA 10.264GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S108	2439888.29	1968 Feb 1 1900	Nike Cajun	-	NASA 10.259GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	-	-
1968-S109	2439888.31	1968 Feb 1 1930	Nike Cajun	-	NASA 10.260GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S110	2439888.35	1968 Feb 1 2030	Nike Cajun	-	NASA 10.261GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	-	-
1968-S111	2439888.39	1968 Feb 1 2115	Nike Cajun	-	NASA 10.262GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S114	2439889.50	1968 Feb 2 2357	Nike Apache	-	Round 119	0.000	MICOM	SS	-	WSMR/	Target	AD7833848	-	-
1968-S117	2439889.06	1968 Feb 2 1326	Nike Apache	-	NASA 14.259IA	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron/Ionos	WDCRF	SR9,237	-
1968-S122	2439892.43	1968 Feb 5 2222	Nike Cajun	-	NASA 10.263GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	-	-
1968-S123	2439892.71	1968 Feb 6 0507	Nike Tomahawk	-	NASA 18.38UE	0.000	GSFC	SS	-	UNH/Cahill	Plasma	WDCRF	-	-
1968-S124	2439892.81	1968 Feb 6 0721	Nike Tomahawk	12	Sandia 152-105	0.000	SAND	SS	-	LASL/Peek	Auroral	FC	FDS	-
1968-M03	2439894.17	1968 Feb 7 1600	Nike Cajun	-	NASA 10.234GM	0.000	GSFC	SS	-	GSFC/Rast	Aeronomy	WDCRF	-	-
1968-S127	2439895.58	1968 Feb 9 0154	Nike Tomahawk	12	Sandia 152-104	0.000	SAND	SS	-	LASL/Peek	Auroral	FC	-	-
1968-S140	2439908.47	1968 Feb 21 2317	Nike Apache	-	NASA 14.284CA	0.000	GSFC	SS	-	GCA/Pressman	Aeronomy	WDCRF	-	-
1968-S141	2439908.66	1968 Feb 22 0345	Nike Apache	-	NASA 14.276GE	0.000	GSFC	SS	-	GSFC/Evans	Plasma	FC	WDCRF	-
1968-S142	2439908.71	1968 Feb 22 0509:00	Nike Apache	-	NASA 14.364CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	GCA-TR-68-14-N	WDCRF	-
1968-A62	2439908.72	1968 Feb 22 0512	Nike Tomahawk	-	NASA 18.61GE	0.000	GSFC	SF	U	GSFC/Evans	Plasma	WDCRF	-	-
1968-S143	2439908.77	1968 Feb 22 0630:00	Nike Apache	-	NASA 14.365CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	GCA-TR-68-14-N	WDCRF	-
1968-S144	2439908.83	1968 Feb 22 0800:00	Nike Apache	-	NASA 14.366CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	GCA-TR-68-14-N	WDCRF	-
1968-S145	2439908.90	1968 Feb 22 0930:00	Nike Apache	-	NASA 14.367CM	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	GCA-TR-68-14-N	WDCRF	-
1968-S146	2439908.96	1968 Feb 22 1102:00	Nike Apache	-	NASA 14.208CA	0.000	GSFC	SS	-	GCA/Smith	Aeronomy	GCA-TR-68-14-N	WDCRF	-
1968-S149	2439909.72	1968 Feb 23 0510	Nike Tomahawk	-	NASA 18.35UE	0.000	GSFC	SS	-	UCB/Anderson	Plasma	WDCRF	-	-
1968-S150	2439909.79	1968 Feb 23 0653	Nike Tomahawk	-	NASA 18.67UA	0.000	GSFC	SS	-	UAF/Murray	Auroral	WDCRF	-	-
1968-S152	2439914.25	1968 Feb 27 1754	Nike Apache	-	STV 070 SRN-02	0.000	SAMSO	SS	-	USAF/	Aeron?	AD7833848	-	-
1968-S153	2439913.55	1968 Feb 27 0110	Nike Apache	-	NASA 14.350CA	0.000	GSFC	SS	-	GCA/Pressman	Aeronomy	WDCRF	-	-
1968-S156	2439914.75	1968 Feb 28 0601	Nike Tomahawk	-	NASA 18.68UA	0.000	GSFC	SS	-	UAF/Murray	Auroral	WDCRF	-	-
1968-S164	2439917.80	1968 Mar 2 0719	Nike Tomahawk	-	NASA 18.37UE	0.000	GSFC	SS	-	UCB/Anderson	Auroral/Plasma	WDCRF	-	-
1968-S177	2439930.80	1968 Mar 15 0710	Nike Iroquois	-	CRL AE07.290	0.000	AFCRL	SS	-	AFCRL/Vancour	Auroral/Plasma	AFCRL	-	-
1968-S179	2439931.30	1968 Mar 15 1911	Nike Tomahawk	-	NASA 18.10UI	0.000	GSFC	SS	-	GSFC/Herman,Goldberg	Ionos	WDCRF	-	-
1968-S183	2439932.79	1968 Mar 17 0659:01	Nike Apache	-	NASA 14.344UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1968-S184	2439932.81	1968 Mar 17 0730:01	Nike Tomahawk	-	NASA 18.53GA	0.000	GSFC	SS	-	UMI/GSFC/Spencer	Aeronomy	WDCRF	-	-
1968-S182	2439932.89	1968 Mar 17 0928:00	Nike Tomahawk	-	NASA 18.49GA	0.000	GSFC	SS	-	UMI/GSFC/Spencer	Aeronomy	UM	-	-
1968-S185	2439933.28	1968 Mar 17 1845:01	Nike Apache	-	NASA 14.345UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1968-S186	2439933.30	1968 Mar 17 1918	Nike Tomahawk	-	NASA 18.52GA	0.000	GSFC	SS	-	UMI/GSFC/Spencer	Aeronomy	WDCRF	-	-
1968-S187	2439933.79	1968 Mar 18 0700:05	Nike Apache	-	NASA 14.333UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1968-S188	2439934.24	1968 Mar 18 1751	Nike Tomahawk	-	NASA 18.36UE	0.000	GSFC	SS	-	UCB/Anderson	Plasma	WDCRF	-	-
1968-S195	2439936.27	1968 Mar 20 1823	Nike Apache	-	K-NA-8	0.000	DLR	SS	-	MPE/Haerendel	Aeron/Ionos	Moraba	-	-
1968-S201	2439936.75	1968 Mar 21 0601:33	Nike Tomahawk	-	NASA 18.63UE	0.000	GSFC	SS	-	UMD/Mathews	Magnetospheric	WDCRF	-	-
1968-S204	2439939.27	1968 Mar 23 1835	Nike Apache	-	K-NA-9	0.000	DLR	SS	-	MPE/Umlauft	Aeron/Ionos/Fields	Moraba	-	-
1968-S207	2439940.03	1968 Mar 24 1245	Nike Cajun	-	NASA 10.270GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S210	2439940.75	1968 Mar 25 0600	Nike Cajun	-	NASA 10.271GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S211	2439941.04	1968 Mar 25 1258	Nike Cajun	-	NASA 10.272GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S223	2439943.56	1968 Mar 28 0132	Nike Apache	-	NASA 14.375IE-II	0.000	ISRO	SS	-	MPE/PRL/Haerendel,Rao	Ionos	WDCRF	-	-
1968-S224	2439944.19	1968 Mar 28 1631	Nike Apache	-	NASA 14.346GR	0.000	GSFC	SS	-	GSFC/Stone	RF Astron	WDCRF	-	-
1968-S232	2439946.06	1968 Mar 30 1325	Nike Apache	-	NASA 14.376IE-II	0.000	ISRO	SS	-	MPE/PRL/Haerendel,Rao	Ionos	WDCRF	-	-
1968-S247	2439946.50	1968 Mar 31 0007	Nike Apache	-	NASA 14.378IE	0.000	ISRO	SS	-	MPE/PRL/Haerendel,Rao	Ionos	WDCRF	-	-
1968-S248	2439947.01	1968 Mar 31 1215	Nike Apache	-	NASA 14.377IE-II	0.000	ISRO	SS	-	MPE/PRL/Haerendel,Rao	Ionos	WDCRF	-	-
1968-S236	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S237	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S238	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S239	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S240	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S241	2439946.50	1968 Apr	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S253	2439950.67	1968 Apr 4 0359	Nike Apache	-	NASA 14.277GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral/Plasma	WDCRF	-	-
1968-S254	2439950.81	1968 Apr 4 0732	Nike Tomahawk	-	NASA 18.60GE	0.000	GSFC	SS	-	GSFC/Evans	Auroral/Plasma	WDCRF	-	-
1968-S255	2439952.55	1968 Apr 6 0115:46	Nike Apache	?	K-NA-10	0.000	DLR	SF	U	MPE/	Auroral?	Moraba	SSC81	[Centaure?]
1968-S242	2439956.50	1968 Apr 10	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S272	2439969.16	1968 Apr 22 1553	Nike Apache	-	NASA 14.241IG	0.000	ISRO	SS	-	ISAS/PRL/Oda,Rao	XR Astron	WDCRF	SP-4401	-
1968-S275	2439969.70	1968 Apr 23 0453	Nike Tomahawk	-	NASA 18.41UE	0.000	GSFC	SS	-	UNH/UMN/Cahill,Potter	Auroral	FC	WDCRF	-
1968-A75	2439969.75	1968 Apr 23 0554	Nike Apache	-	NASA 14.356UM	0.000	GSFC	SF	U	UMI/Horvath	Aeronomy	WDCRF	SP-4010	-
1968-S280	2439971.16	1968 Apr 24 1544	Nike Apache	-	NASA 14.260IG	0.000	ISRO	SS	-	ISAS/PRL/Oda,Rao	XR Astron	WDCRF	SP-4401	-
1968-S282	2439971.75	1968 Apr 25 0601	Nike Tomahawk	-	NASA 18.33CE	0.000	GSFC	SS	-	TRW/Bernstein	Ionos	WDCRF	-	-
1968-S281	2439972.21	1968 Apr 25 1706	Nike Apache	-	Round 121	0.000	MICOM	SS	-	NMSU/	Target	AD738848	-	-
1968-S283	2439971.77	1968 Apr 25 0623	Nike Tomahawk	-	NASA 18.42UE	0.000	GSFC	SS	-	UNH/UMN/Cahill,Potter	Auroral	FC	-	-
1968-S243	2439973.50	1968 Apr 27	Nike Apache	?	BMTS	0.000	MICOM	MS	-	-	Target	WSMR	-	-
1968-S298	2439976.83	1968 Apr 30 0749	Nike Tomahawk	-	NASA 18.40UE	0.000	GSFC	SF	U	UNH/Cahill	Auroral	FC	-	-
1968-S299	2439978.35	1968 May 1 2025	Nike Iroquois	-	CRL AH07.177	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR11,821	-
1968-S300	2439978.73	1968 May 2 0525	Nike Iroquois	-	CRL AH07.178	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL	-	-
1968-S301	2439978.75	1968 May 2 0600	Nike Iroquois	-	CRL AE07.325	0.000	AFCRL	SS	-	AFCRL/	Ionos	AFCRL	-	-
1968-S302	2439978.80	1968 May 2 0715	Nike Iroquois	-	CRL AG07.644	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1968-S304	2439979.72	1968 May 3 0511	Nike Tomahawk	-	NASA 18.39UE	0.000	GSFC	SS	-	UNH/Cahill	Auroral	WDCRF	-	-
1968-S307	2439983.79	1968 May 7 0700	Nike Iroquois	-	CRL AG07.643	0.000	AFCRL	SS	-	SAND/	Aeron	AFCRL	-	-
1968-S308	2439985.18	1968 May 8 1625	Nike Apache	-	Round 122	0.000	MICOM	SS	-	MICOM/	Aeron?	AD738848	-	-
1968-S309	2439985.76	1968 May 9 0615	Nike Tomahawk	12	Sandia 152-114	0.000	SAND	SS	-	SAND/LRL/Harri,Seward	XR Astron	UCRL-50587	-	-
1968-S314	2439988.88	1968 May 12 0906	Nike Tomahawk	-	CRL AH08.670	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1968-S316	2439989.88	1968 May 13 0906	Nike Tomahawk	-	CRL AH08.666	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1968-S320	2439991.78	1968 May 15 0638:00	Nike Tomahawk	12	Sandia 152-111	0.000	SAND	SS	-	LRL/Seward,Hill	XR Astron	FDS	UCRL-50587	-
1968-S324	2439993.83	1968 May 17 0800	Nike Cajun	-	Sandia 154-106	0.000	SAND	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-S327	2439993.88	1968 May 17 0900	Nike Iroquois	-	CRL AH07.571	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1968-S325	2439993.89	1968 May 17 0915	Nike Cajun	-	Sandia 154-110	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S328	2439994.52	1968 May 18 0030	Nike Cajun	-	Sandia 154-111	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S329	2439994.56	1968 May 18 0133	Nike Tomahawk	-	Sandia 152-112	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S331	2439995.76	1968 May 19 0616	Nike Tomahawk	12	Sandia 152-108	0.000	SAND	SS	-	LRL/	XR Astron	UCRL-50587	-	-
1968-S342	2440000.38	1968 May 23 2100	Nike Iroquois	-	CRL AH07.572	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1968-S343	2440000.29	1968 May 23 1900	Nike Cajun	-	Sandia 154-102	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S344	2440000.33	1968 May 23 2000	Nike Cajun	-	Sandia 154-103	0.000	SAND	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-S345	2440000.38	1968 May 23 2100	Nike Apache	-	Sandia 154-104	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S346	2440000.51	1968 May 24 0010	Nike Cajun	-	Sandia 154-105	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S347	2440000.51	1968 May 24 0015	Nike Tomahawk	-	Sandia 154-113	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S348	2440000.61	1968 May 24 0245	Nike Tomahawk	-	Sandia 152-115	0.000	SAND	SS	-	SAND/	Aeron	SP-219	-	-
1968-S358	2440009.89	1968 Jun 02 0915	Nike Apache	?	SECEDE R1	0.000	ARPA	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	WDCRF	-
1968-S359	2440012.19	1968 Jun 4 1637	Nike Apache	-	NASA 14.363GT	0.000	GSFC	SS	-	GSFC/Wood	Test	WDCRF	-	-
1968-S367	2440017.52	1968 Jun 10 0025	Nike Apache	-	NASA 14.222GE	0.000	GSFC	SS	-	GSFC/Fichtel,Bertsch	Plasma	WDCRF	-	-
1968-S369	2440018.17	1968 Jun 10 1605	Nike Apache	-	NASA 14.223GE	0.000	GSFC	SS	-	GSFC/Fichtel	Plasma	FC	SP-4401	-
1968-S370	2440018.22	1968 Jun 10 1715	Nike Apache	-	NASA 14.335UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy	WDCRF	-	-
1968-S372	2440019.22	1968 Jun 11 1721:02	Nike Apache	-	NASA 14.355IA	0.000	GSFC	SS	-	MPIK/Sitte	Meteorites	Moraba	SR10,287	-
1968-A118	2440019.50	1968 Jun 12	Nike Nike	-	Sandia 158-13	0.000	SAND	AS	-	SAND/Pepper	Test	JAircraft6901-74	-	-
1968-S375	2440019.88	1968 Jun 12 0908	Nike Apache	?	SECEDE R2	0.000	ARPA	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	WDCRF	-
1968-S377	2440020.46	1968 Jun 12 2259	Nike Apache	-	NASA 14.354IA	0.000	GSFC/DLR	SS	-	MPIK/Sitte	Meteorites	Moraba	SR10,287	-
1968-S643	2440054.85	1968 Jul 17 0825	Nike Cajun	-	NASA 10.294GM	0.000	GSFC	SS	-	GSFC/Smith	Aeron	WDCRF	SP-4401	-
1968-S644	2440054.88	1968 Jul 17 0908	Nike Cajun	-	NASA 10.295GM	0.000	GSFC	SS	-	GSFC/Smith	Aeron	WDCRF	SP-4401	-
1968-S399	2440055.56	1968 Jul 18 0130	Nike Iroquois	-	CRL AG07.881	0.000	AFCRL	SS	-	AFCRL/Narcisi	Meteorites	AFCRL	-	-
1968-S402	2440057.27	1968 Jul 19 1833	Nike Iroquois	-	CRL AG07.642	0.000	AFCRL	SF	U	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1968-S403	2440059.68	1968 Jul 22 0423	Nike Iroquois	-	CRL AF07.389	0.000	AFCRL	SS	-	AFCRL/Narcisi,Rosenberg	Aeron	AFCRL	-	-
1968-S405	2440060.68	1968 Jul 23 0418	Nike Iroquois	-	CRL AG07.628	0.000	AFCRL	SS	-	AFCRL/Macleod	Aeron	AFCRL	-	-
1968-S406	2440060.68	1968 Jul 23 0419	Nike Iroquois	-	CRL AG07.629	0.000	AFCRL	SS	-	AFCRL/Macleod	Aeron	AFCRL	-	-
1968-S407	2440060.69	1968 Jul 23 0428	Nike Iroquois	-	CRL AG07.642A	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1968-S408	2440060.69	1968 Jul 23 0428	Nike Iroquois	-	CRL AG07.632	0.000	AFCRL	SS	-	AFCRL/Macleod	Aeron	AFCRL	-	-
1968-S409	2440061.51	1968 Jul 24 0019	Nike Apache	-	NASA 14.349UA	0.000	GSFC	SS	-	UCO/Pearce	Aeronomy	WDCRF	-	-
1968-S410	2440061.53	1968 Jul 24 0046	Nike Cajun	-	NASA 10.265GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S412	2440061.72	1968 Jul 24 0520	Nike Cajun	-	NASA 10.253UA	0.000	GSFC	SS	-	UMI/Peterson	Aeronomy	SP-219	WDCRF	-
1968-S413	2440061.91	1968 Jul 24 0954	Nike Apache	-	NASA 14.348UA	0.000	GSFC	SS	-	UCO/Pearce	Aeronomy	WDCRF	-	-
1968-S414	2440061.92	1968 Jul 24 1006	Nike Apache	-	NASA 14.358UI	0.000	GSFC	SS	-	UIUC/Smith,Bowhill	Aeronomy	WDCRF	-	-
1968-S415	2440061.93	1968 Jul 24 1019	Nike Cajun	-	NASA 10.258GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S416	2440061.94	1968 Jul 24 1036	Nike Apache	-	NASA 14.359UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos	WDCRF	-	-
1968-S417	2440062.21	1968 Jul 24 1700	Nike Apache	-	NASA 14.360UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos	WDCRF	-	-
1968-S418	2440062.28	1968 Jul 24 1845	Nike Cajun	-	NASA 10.254UA	0.000	GSFC	SS	-	UMI/Peterson	Aeronomy	SP-219	WDCRF	-
1968-S419	2440062.40	1968 Jul 24 2136	Nike Apache	-	NASA 14.361UI	0.000	GSFC	SS	-	UIUC/Bowhill,Smith	Ionos	WDCRF	-	-
1968-S420	2440062.41	1968 Jul 24 2155	Nike Cajun	-	NASA 10.266GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S436	2440069.39	1968 Jul 31 2121	Nike Tomahawk	-	NASA 18.31UA	0.000	GSFC	SS	-	JHU/Fastie,Matthews	Aeronomy	JGR78,2010	AnnalesGeo28,489	-
1968-S444	2440076.00	1968 Aug 7 1205	Nike Apache	-	NASA 14.320UE	0.000	GSFC	SS	-	RICE/Haymes	Plasma	WDCRF	-	-
1968-S446	2440076.88	1968 Aug 8 0900	Nike Iroquois	-	CRL AG07.273	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	WDCRF	-	-
1968-S447	2440077.30	1968 Aug 8 1910:00	Nike Tomahawk	-	NASA 18.51GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	WDCRF	-	-
1968-S448	2440077.32	1968 Aug 8 1935:00	Nike Apache	-	NASA 14.187UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1968-S449	2440077.79	1968 Aug 9 0702	Nike Tomahawk	-	NASA 18.56GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Aeronomy	WDCRF	-	-
1968-S450	2440077.81	1968 Aug 9 0724:00	Nike Apache	-	NASA 14.357UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1968-S451	2440079.88	1968 Aug 11 0904	Nike Iroquois	-	CRL AG07.274	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	AFCRL	-	-
1968-S452	2440081.01	1968 Aug 12 1214	Nike Hydac	-	STV SR-071	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-S453	2440080.88	1968 Aug 12 0900	Nike Iroquois	-	CRL AG07.275	0.000	AFCRL	SS	-	AFCRL/Skrivanek	Meteorites	AFCRL	-	-
1968-S454	2440080.86	1968 Aug 12 0838	Nike Apache	-	NASA 14.336UA	0.000	GSFC	SS	-	DUD/Hemenway	Meteorites	WDCRF	SR10,272	-
1968-S457	2440083.88	1968 Aug 15 0900	Nike Iroquois	-	CRL AG07.276	0.000	AFCRL	SF	U	AFCRL/Skrivanek?	Meteorites	AFCRL	-	-
1968-S461	2440087.89	1968 Aug 19 0917	Nike Iroquois	-	CRL AG07.636	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	FC	AFCRL,SR12,733	-
1968-S463	2440088.88	1968 Aug 20 0900	Nike Tomahawk	-	CRL AH08.649	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,675	-
1968-S464	2440088.92	1968 Aug 20 1010	Nike Iroquois	-	CRL AG07.685	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1968-S465	2440089.31	1968 Aug 20 1932	Nike Apache	-	NASA 14.301UA	0.000	GSFC	SS	-	DUD/Hemenway	Meteorites	AFCRL	SR10,272	-
1968-S468	2440090.32	1968 Aug 21 1940	Nike Apache	-	NASA 14.369GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	-	-
1968-S469	2440090.33	1968 Aug 21 1953	Nike Apache	-	NASA 14.368GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S470	2440090.34	1968 Aug 21 2004	Nike Apache	-	NASA 14.370GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	-	-
1968-S471	2440090.40	1968 Aug 21 2130	Nike Tomahawk	-	NASA 18.30UI	0.000	GSFC	SS	-	UMD/Bettinger	Ionos	WDCRF	-	-
1968-A92	2440091.44	1968 Aug 22 2230	Nike	-	-	0.000	NRCC	SS	-	NRCC/	Test	FC	SRctCon2	-
1968-S474	2440095.65	1968 Aug 27 0334	Nike Iroquois	-	CRL AH07.667	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1968-S475	2440095.70	1968 Aug 27 0444	Nike Tomahawk	-	CRL AH08.668	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,675	-
1968-S481	2440097.73	1968 Aug 29 0538	Nike Apache	-	NASA 14.191	0.000	GSFC	SS	-	PRL/Sastry,Prakash	Ionos	WDCRF	SR10,778	-
1968-S482	2440097.86	1968 Aug 29 0845	Nike Apache	-	NASA 14.192	0.000	GSFC	SS	-	PRL/Sastry,Prakash	Ionos	WDCRF	SR10,778	-
1968-S483	2440098.23	1968 Aug 29 1730	Nike Apache	-	NASA 14.193	0.000	GSFC	SS	-	PRL/Sastry,Prakash	Ionos	PlanSpaSci18,1307	SR10,778	-
1968-S487	2440103.54	1968 Sep 4 0104	Nike Iroquois	-	CRL A07.913-1	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1968-S488	2440103.56	1968 Sep 4 0129	Nike Iroquois	-	CRL A07.913-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1968-S486	2440104.09	1968 Sep 4 1405	Nike Hydac	-	STV SR-072	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-S490	2440105.00	1968 Sep 5 1200	Nike Hydac	-	STV SR-073	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-S491	2440105.08	1968 Sep 5 1400	Nike Hydac	-	STV SR-074	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-M22	2440116.17	1968 Sep 16 1558	Nike Cajun	-	NASA 10.235GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1968-A97	2440116.20	1968 Sep 16 1650	Aerobee 170	-	CRL AT3.170	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL	-	-
1968-S497	2440116.22	1968 Sep 16 1712	Nike Cajun	-	NASA 10.269GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S498	2440117.34	1968 Sep 17 2003	Nike Cajun	-	NASA 10.257GM	0.000	GSFC	SS	-	GSFC/Smith?	Aeronomy	WDCRF	-	-
1968-A99	2440117.81	1968 Sep 18 0730	Nike Cajun	-	NASA 10.282GM	0.000	GSFC	SF	U	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S502	2440120.31	1968 Sep 20 1931:00	Nike Tomahawk	-	NASA 18.75GE	0.000	GSFC	SS	-	GSFC/UAF/Wescot,Davis	Plasma	AND	WDCRF	-
1968-S503	2440120.31	1968 Sep 20 1932:00	Nike Tomahawk	-	NASA 18.58IE	0.000	GSFC	SS	-	RSRS/NDRE/Burrows,Folke.	Plasma	AND	WDCRF	-
1968-S505	2440121.32	1968 Sep 21 1936:00	Nike Tomahawk	-	NASA 18.76GE	0.000	GSFC	SS	-	GSFC/Wescott	Plasma	AND	WDCRF	-
1968-S507	2440123.31	1968 Sep 23 1929:00	Nike Tomahawk	-	NASA 18.77GE	0.000	GSFC	SS	-	GSFC/Wescott	Plasma	AND	WDCRF	-
1968-S514	2440127.49	1968 Sep 27 2345	Nike Cajun	-	NASA 10.281GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	WDCRF	-
1968-S518	2440131.41	1968 Oct 1 2144:16	Nike Tomahawk	-	NASA 18.59IE	0.000	GSFC	SS	-	RSRS/NDRE/Bryant,Folke.	Plasma	PlanSpaSci21,165	AND	-
1968-S685	2440140.02	1968 Oct 10 1230	Nike Hydac	-	STV SR-076	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-S533	2440144.54	1968 Oct 15 0100	Nike Cajun	-	NASA 10.287GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S534	2440144.62	1968 Oct 15 0300	Nike Cajun	-	NASA 10.288GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S536	2440145.42	1968 Oct 15 2212	Nike Cajun	-	NASA 10.251GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S537	2440145.51	1968 Oct 16 0011	Nike Tomahawk	-	NASA 18.69UA	0.000	GSFC	SS	-	UMI/Jones	Aeronomy	WDCRF	-	-
1968-S538	2440145.51	1968 Oct 16 0012	Nike Cajun	-	NASA 10.252GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S541	2440147.40	1968 Oct 17 2130	Nike Hydac	-	9.5-68-4-604	0.000	SAMSO/DASA	SS	-	USAF/	Aeron?	AFCRL2	-	-
1968-S549	2440152.12	1968 Oct 22 1450	Nike Hydac	-	9.5-68-5-604	0.000	SAMSO/DASA	SS	-	USAF/	Aeron?	AFCRL2	DTIC	-
1968-S551	2440154.04	1968 Oct 24 1303	Nike Hydac	-	STV SR-077	0.000	SAMSO	SS	-	USAF/	Aeron?	DTIC	-	-
1968-S701	2440153.50	1968 Oct 24	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron?	PMRHist68	-	-
1968-S702	2440153.50	1968 Oct 24	Nike Cajun	-	-	0.000	SAND	SS	-	SAND/AEC/	Aeron?	PMRHist68	-	-
1968-S554	2440155.88	1968 Oct 26 0911	Aerobee 170	-	NASA 12.13GT-UG	0.000	GSFC/KPNO	SS	-	KPNO/Stuart	UV Astronomy/Test	WDC	KPNO	-
1968-S571	2440167.63	1968 Nov 7 0305	Nike Apache	-	NASA 14.261IG	0.000	GSFC	SS	-	PRL/Rao,Chitnis	XR Astron	WDCRF	-	-
1968-S573	2440168.27	1968 Nov 7 1827	Nike Apache	-	NASA 14.379GI	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	WDCRF	-	-
1968-S703	2440168.50	1968 Nov 8	Nike Tomahawk	-	Sandia 152-121	0.000	SAND	SS	-	LASL/Benton	Plasma/Active	LA-4947	-	-
1968-A109	2440169.87	1968 Nov 9 0859	Nike Iroquois	-	CRL AF07.292	0.000	AFCRL	SF	U	AFCRL/Vancour	Plasma	AFCRL	-	-
1968-S593	2440180.25	1968 Nov 19 1800	Nike Cajun	-	NASA 10.293GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S594	2440180.27	1968 Nov 19 1830	Nike Apache	-	NASA 14.371GI	0.000	GSFC	SS	-	GSFC/Aikin,Somayajulu	Ionospheric	WDCRF	-	-
1968-S595	2440180.34	1968 Nov 19 2004:59	Nike Apache	-	NASA 14.386UM	0.000	GSFC	SS	-	UMI/Allen,Horvath	Aeronomy	Horvath72	WDCRF	-
1968-S597	2440180.98	1968 Nov 20 1124	Nike Cajun	-	NASA 10.283GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S598	2440181.06	1968 Nov 20 1324	Nike Cajun	-	NASA 10.284GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S604	2440182.52	1968 Nov 22 0031	Nike Cajun	-	NASA 10.289GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S605	2440182.83	1968 Nov 22 0755	Nike Cajun	-	NASA 10.290GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-A113	2440187.57	1968 Nov 27 0142:00	Nike Apache	-	Ferdinand 17	0.000	NTNF	SF	U	MPE/NDRE/Zahringer,Land.	Aeron/Ionos/Plasma	AND	WDCRF	-
1968-S623	2440193.84	1968 Dec 3 0810	Nike Apache	-	NASA 14.351UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy/Meteorites	SR10,272	SR10,272	-
1968-S621	2440194.83	1968 Dec 4 0754:17	Nike Apache	-	Ferdinand 16	0.000	NTNF	SS	-	MPE/NDRE/Zahringer,Land.	Aeron/Ionos/Plasma	AND	WDCRF	-
1968-S636	2440200.41	1968 Dec 9 2155	Nike Iroquois	-	CRL AF07.660	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	AFCRL	-	-
1968-S637	2440200.41	1968 Dec 9 2155	Nike Iroquois	-	CRL AF07.664	0.000	AFCRL	SS	-	AFCRL/Sissenwine	Aeron	AFCRL	-	-
1968-S640	2440201.27	1968 Dec 10 1832	Nike Iroquois	-	CRL AG07.883	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1968-S641	2440202.61	1968 Dec 12 0245	Nike Iroquois	-	CRL AH07.887	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1968-S646	2440203.63	1968 Dec 13 0311	Nike Cajun	-	NASA 10.285GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S647	2440203.71	1968 Dec 13 0459	Nike Cajun	-	NASA 10.291GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S648	2440203.72	1968 Dec 13 0511	Nike Cajun	-	NASA 10.286GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S649	2440203.79	1968 Dec 13 0659	Nike Cajun	-	NASA 10.292GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1968-S651	2440205.13	1968 Dec 14 1508	Nike Apache	-	NASA 14.352UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy/Meteorites	WDCRF	SR10,272	-
1969-S754	2440228.49	1969 Jan 6 2341	Nike Iroquois	-	CRL AH07.671	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	WDCRF	StPeteTimes690108	-
1969-S53	2440228.52	1969 Jan 7 0035	Nike Iroquois	-	CRL AG07.626	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S54	2440229.48	1969 Jan 7 2338	Nike Iroquois	-	CRL AH07.672	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S755	2440229.52	1969 Jan 8 0030	Nike Iroquois	-	CRL AG07.625?	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	StPeteTimes690108	-	ID is guess
1969-S59	2440232.81	1969 Jan 11 0730	Nike Cajun	-	NASA 10.236GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1969-S60	2440232.93	1969 Jan 11 1015	Nike Cajun	-	NASA 10.256GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S61	2440233.56	1969 Jan 12 0132	Nike Iroquois	-	CRL AG07.652	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S63	2440235.49	1969 Jan 13 2343	Nike Iroquois	-	CRL AH07.673	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S64	2440236.06	1969 Jan 14 1330	Nike Hydac	-	STV 75	0.000	SAMSO	SS	-	GSFC/Smith	Aeron	DTIC	-	-
1969-S71	2440239.27	1969 Jan 17 1834	Nike Cajun	-	NASA 10.313IM	0.000	GSFC/RTG	SS	-	MISU/UCL/Udin	Aeronomy	WDCRF	-	-
1969-S72	2440239.40	1969 Jan 17 2132	Nike Cajun	-	NASA 10.306GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S73	2440240.58	1969 Jan 19 0200	Nike Cajun	-	NASA 10.299GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-M01	2440241.30	1969 Jan 19 1905	Nike Cajun	-	NASA 10.314IM	0.000	GSFC/RTG	SS	-	MISU/UCL/Udin	Aeronomy	WDCRF	-	-
1969-S75	2440242.21	1969 Jan 20 1704	Nike Cajun	-	NASA 10.301GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	-	-
1969-S79	2440244.43	1969 Jan 22 2217	Nike Cajun	-	NASA 10.304GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S83	2440245.46	1969 Jan 23 2300	Nike Cajun	-	NASA 10.315IM	0.000	GSFC/RTG	SS	-	MISU/UCL/Udin	Aeronomy	WDCRF	-	-
1969-S84	2440246.33	1969 Jan 24 2000	Nike Cajun	-	NASA 10.305GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S85	2440247.38	1969 Jan 25 2100	Nike Cajun	-	NASA 10.316IM	0.000	GSFC/RTG	SS	-	MISU/UCL/Udin	Aeronomy	WDCRF	-	-
1969-S86	2440247.71	1969 Jan 26 0500	Nike Cajun	-	NASA 10.297GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S87	2440247.91	1969 Jan 26 0945	Aerobee 350	-	NASA 17.03GE	0.000	GSFC	SS	-	MSC/Hess	Plasma	WDCRF	SRctCon2	-
1969-A34	2440247.91	1969 Jan 26 0947	Nike Tomahawk	-	NASA 18.11GI	0.000	GSFC	SF	U	GSFC/Bauer	Ionos	WDCRF	SP-4014	-
1969-S88	2440249.74	1969 Jan 28 0549	Nike Tomahawk	-	NASA 18.25UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	-	-
1969-S93	2440252.22	1969 Jan 30 1710	Nike Cajun	-	NASA 10.302GM	0.000	GSFC	SS	-	GSFC/Smith?	Aeron	WDCRF	-	-
1969-S95	2440252.79	1969 Jan 31 0700	Nike Cajun	-	NASA 10.298GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S96	2440252.86	1969 Jan 31 0838	Nike Cajun	-	NASA 10.274GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1969-S97	2440253.21	1969 Jan 31 1700	Nike Apache	-	NASA 14.391UI	0.000	GSFC	SS	-	UIUC/GCA/Bowhill	Ionos	WDCRF	-	-
1969-S98	2440253.23	1969 Jan 31 1730	Nike Iroquois	-	CRL AH07.891	0.000	AFCRL	SS	-	AFCRL/Ulwick	Aeron	AFCRL	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S99	2440253.25	1969 Jan 31 1757	Nike Cajun	-	NASA 10.307GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S100	2440253.27	1969 Jan 31 1836	Nike Iroquois	-	CRL AH07.573	0.000	AFCRL	SS	-	AFCRL/Faucher	Aeron	AFCRL	-	-
1969-S101	2440253.30	1969 Jan 31 1910	Nike Apache	-	NASA 14.389UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1969-S102	2440253.38	1969 Jan 31 2112	Nike Apache	-	NASA 14.396GM	0.000	GSFC	SS	-	GSFC/Heath	Aeronomy	WDCRF	-	-
1969-A40	2440253.39	1969 Jan 31 2125	Nike Cajun	-	NASA 10.268GM	0.000	GSFC	SF	U	GSFC/Smith,Krueger	Aeronomy	WDCRF	-	-
1969-S103	2440253.41	1969 Jan 31 2153	Nike Iroquois	-	CRL AH07.576	0.000	AFCRL	SS	-	AFCRL/?	Aeron	AFCRL	-	-
1969-S106	2440257.13	1969 Feb 4 1511	Nike Hydac	-	STV 82	0.000	SAMSO	SS	-	USAF/	Aeron	DTIC	-	-
1969-S107	2440257.17	1969 Feb 4 1600	Nike Hydac	-	STV 83	0.000	SAMSO	SS	-	USAF/	Aeron	DTIC	-	-
1969-S109	2440257.44	1969 Feb 4 2230	Nike Cajun	-	NASA 10.300GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S112	2440258.90	1969 Feb 6 0939	Nike Cajun	-	NASA 10.303GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S114	2440259.21	1969 Feb 6 1709	Nike Apache	-	NASA 14.392UI	0.000	GSFC	SS	-	UIUC/GCA/Bowhill	Ionos	WDCRF	-	-
1969-S115	2440259.31	1969 Feb 6 1929	Nike Apache	-	NASA 14.390UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1969-S116	2440259.38	1969 Feb 6 2109	Nike Cajun	-	NASA 10.267GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S123	2440260.69	1969 Feb 8 0440	Nike Apache	-	NASA 14.269UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WDCRF	-	-
1969-S126	2440264.64	1969 Feb 12 0316	Nike Apache	-	NASA 14.306UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WDCRF	-	-
1969-S128	2440264.78	1969 Feb 12 0641	Nike Cajun	-	Launcher test	0.000	NRCC	SS	-	CRR/	Test	FC	-	-
1969-S134	2440266.47	1969 Feb 13 2311	Nike Tomahawk	-	NASA 18.86CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	SP-4014	WISR	-
1969-S135	2440266.54	1969 Feb 14 0100	Nike Apache	-	NASA 14.397CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S136	2440266.64	1969 Feb 14 0319	Nike Apache	-	NASA 14.399CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S137	2440266.71	1969 Feb 14 0500	Nike Apache	-	NASA 14.400CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S138	2440266.79	1969 Feb 14 0700	Nike Apache	-	NASA 14.401CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S139	2440266.88	1969 Feb 14 0900	Nike Apache	-	NASA 14.398CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S140	2440266.97	1969 Feb 14 1113	Nike Apache	-	NASA 14.402CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1969-S143	2440270.33	1969 Feb 17 2002	Nike Apache	-	NASA 14.374UI	0.000	GSFC	SS	-	UTD/Schmerling,Heikkila	Ionos	FC	-	-
1969-S149	2440273.63	1969 Feb 21 0301	Nike Apache	-	NASA 14.307UI	0.000	GSFC	SF	U	UTD/Schmerling,Heikkila	Ionos	FC	WISR	-
1969-S154	2440280.18	1969 Feb 27 1614	Nike Hydac	-	STV 84	0.000	SAMSO	SS	-	USAF/	Aeron	DTIC	-	-
1969-S155	2440279.59	1969 Feb 27 0205	Nike Apache	-	NASA 14.321UE	0.000	GSFC	SS	-	RICE/Cloutier	Magnetospheric	FC	-	-
1969-S162	2440284.69	1969 Mar 4 0430	Nike Hydac	-	SECEDE R3	0.000	USAF/ARPA	SS	-	UAF/Davis	Aeronomy Ba	WWW-PFRR	-	-
1969-S163	2440285.69	1969 Mar 5 0430	Nike Hydac	-	SECEDE R4	0.000	USAF/ARPA	SS	-	UAF/Davis	Aeronomy Ba	WWW-PFRR	-	-
1969-S169	2440288.05	1969 Mar 7 1312	Nike Tomahawk	-	NASA 18.83GE	0.000	GSFC	SS	-	GSFC/Wescott	Magnetospheric	WDCRF	-	-
1969-S171	2440288.64	1969 Mar 8 0318	Nike Tomahawk	-	NASA 18.84GE	0.000	GSFC	SS	-	GSFC/Wescott	Magnetospheric	WDCRF	-	-
1969-S174	2440289.65	1969 Mar 9 0329	Nike Tomahawk	-	NASA 18.85GE	0.000	GSFC	SS	-	GSFC/Wescott	Magnetospheric	WDCRF	-	-
1969-S180	2440291.77	1969 Mar 11 0632	Nike Tomahawk	-	NASA 18.81UA	0.000	GSFC	SS	-	UCO/Sharp,Barth	Aeronomy	WDCRF	-	-
1969-S181	2440292.09	1969 Mar 11 1408	Nike Hydac	-	SECEDE R5	0.000	ARPA	SS	-	UAF/LASL/	Aeron/Fields	PlanSpaceSci22,67	WWW-PFRR	-
1969-S193	2440296.25	1969 Mar 15 1755	Nike Apache	-	K-NA-11	0.000	DFVLR	SS	-	MPE/Haerendel	Aeron/Ionos/Fields	Moraba	JBIS24,233	-
1969-S196	2440297.25	1969 Mar 16 1805	Nike Apache	-	K-NA-17	0.000	DFVLR	SS	-	BOCH/Haerendel?	Aeron/Ionos	Moraba	JBIS24,233	-
1969-S199	2440298.03	1969 Mar 17 1238	Nike Tomahawk	-	NASA 18.15UE	0.000	GSFC	SS	-	UAF/Davis	Magnetospheric	WWW-PFRR	-	-
1969-S200	2440298.26	1969 Mar 17 1810	Nike Apache	-	K-NA-18	0.000	DFVLR	SS	-	MPE/Haerendel	Aeron/Ionos/Fields	Moraba	JBIS24,233	-
1969-A54	2440308.30	1969 Mar 27 1905	Nike	-	Smoke 109	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1969-A55	2440308.32	1969 Mar 27 1947	Nike	-	Smoke 110	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1969-S230	2440308.52	1969 Mar 28 0025	Nike Cajun	-	NASA 10.309GM	0.000	GSFC	SS	-	GSFC/INTA/Smith	Aeronomy	WDCRF	-	-
1969-S232	2440308.81	1969 Mar 28 0732	Nike Cajun	-	NASA 10.296GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S234	2440309.50	1969 Mar 29 0005	Nike Cajun	-	NASA 10.310GM	0.000	GSFC	SS	-	GSFC/INTA/Smith	Aeronomy	WDCRF	-	-
1969-S236	2440309.80	1969 Mar 29 0715	Nike Cajun	-	NASA 10.308GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S259	2440321.36	1969 Apr 9 2038:32	Nike Apache	-	Ferdinand 20	0.000	NTNF	SS	-	MPE/NDRE/Zahr.,Landmark	Aeron/Ionos/Plasma	AND	WDCRF	-
1969-S262	2440324.47	1969 Apr 12 2319	Nike Apache	-	NASA 14.325GE	0.000	GSFC	SS	-	GSFC/Bertsch	Magnetospheric	WDCRF	-	-
1969-S264	2440325.09	1969 Apr 13 1404	Nike Apache	-	NASA 14.326GE	0.000	GSFC	SS	-	GSFC/Bertsch	Magnetospheric	WDCRF	-	-
1969-S267	2440326.47	1969 Apr 14 2315	Nike Apache	-	NASA 14.327GE	0.000	GSFC	SS	-	GSFC/Bertsch	Magnetospheric	WDCRF	-	-
1969-S274	2440328.38	1969 Apr 16 2100	Nike Apache	-	NASA 14.393UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1969-S276	2440328.79	1969 Apr 17 0657	Nike Tomahawk	-	NASA 18.80CE	0.000	GSFC	SS	-	TRW/Bernstein	Magnetospheric	WDCRF	-	-
1969-S281	2440329.74	1969 Apr 18 0547	Nike Tomahawk	-	CRL AT08.288	0.000	AFCRL	SS	-	AFCRL/Vancour	Plasma	AFCRL	-	-
1969-S282	2440329.74	1969 Apr 18 0548	Nike Iroquois	-	CRL AH07.297	0.000	AFCRL	SS	-	AFCRL/Vancour	Plasma	AFCRL	-	-
1969-S301	2440338.21	1969 Apr 26 1700	Nike Apache	-	NASA 14.403IG	0.000	GSFC	SS	-	PRL/ISAS/Chitnis,Oda	XR Astron	WDCRF	ApSpSci12,378	-
1969-S303	2440340.21	1969 Apr 28 1704	Nike Apache	-	NASA 14.404IG	0.000	GSFC	SS	-	PRL/ISAS/Chitnis,Oda	XR Astron	WDCRF	ApSpSci12,378	-
1969-S317	2440349.50	1969 May 8 0005	Nike Cajun	-	NASA 10.311GM	0.000	GSFC	SS	-	INTA/	Aeronomy	WDCRF	-	-
1969-S318	2440349.63	1969 May 8 0311	Nike Cajun	-	NASA 10.322GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S319	2440351.57	1969 May 10 0145	Nike Cajun	-	NASA 10.312GM	0.000	GSFC	SS	-	INTA/	Aeronomy	WDCRF	-	-
1969-S320	2440351.69	1969 May 10 0436	Nike Cajun	-	NASA 10.321GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1969-S321	2440354.29	1969 May 12 1852	Nike Apache	-	NASA 14.380GI	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	USCOSPAR70	-	-
1969-S322	2440354.31	1969 May 12 1923:00	Nike Apache	-	NASA 14.362UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1969-S323	2440354.54	1969 May 13 0104	Nike Iroquois	-	CRL AH07.678	0.000	AFCRL	SS	-	AFCRL/MacLeod	Aeron	AFCRL	-	-
1969-S324	2440354.56	1969 May 13 0123	Nike Iroquois	-	CRL AH07.674	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-A81	2440355.24	1969 May 13 1750	Nike	-	Smoke 111	0.000	LARCN	AS	-	LARC/	Aeronomy	TN-D-6861	-	-
1969-S326	2440356.13	1969 May 14 1510	Nike Iroquois	-	CRL AG07.686	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1969-S327	2440356.55	1969 May 15 0105	Nike Iroquois	-	CRL AH07.679	0.000	AFCRL	SS	-	AFCRL/MacLeod	Aeron	AFCRL	-	-
1969-S328	2440356.56	1969 May 15 0128	Nike Iroquois	-	CRL AH07.675	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S332	2440358.79	1969 May 17 0653	Nike Tomahawk	12	Sandia 152-127	0.000	SAND	SS	-	LRL/Seward,Hill	XR Astron	FDS	LRL-ENN73-172	-
1969-S337	2440363.74	1969 May 22 0546	Nike Iroquois	-	CRL AH07.687	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	SR12,733	-
1969-S338	2440363.82	1969 May 22 0738	Nike Tomahawk	-	CRL AH08.669	0.000	AFCRL	SS	-	AFCRL/Dandekar	Aeron	AFCRL	SR12,675	-
1969-S725	2440363.50	1969 May 22	Nike Tomahawk	-	Sandia 152-125	0.000	SAND	SS	-	LASL/Benton	Plasma/Active	LA-4947	-	-
1969-S339	2440364.04	1969 May 22 1300	Nike Tomahawk	-	CRL AH08.919-1	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	-	-
1969-S340	2440364.13	1969 May 22 1503	Nike Iroquois	-	CRL A07.918-1	0.000	AFCRL	SS	-	AFCRL/Dandekar,Golomb	Aeron	AFCRL	SR12,733	-
1969-S348	2440370.37	1969 May 28 2048	Nike Apache	-	NASA 14.420UA	0.000	GSFC	SS	-	DUD/Tackett,Hemenway	Aeronomy	AD738848	SR11,377	-
1969-S350	2440371.08	1969 May 29 1355	Nike Apache	-	STV 85	0.000	SAMSO	SS	-	WSMR/	Aeronomy	AD738848	DTIC	-
1969-S355	2440377.17	1969 Jun 4 1600	Nike Hydac	-	STV 86	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S359	2440382.17	1969 Jun 9 1600	Nike Apache	-	NASA 14.421UA	0.000	GSFC	SS	-	DUD/Tackett,Hemenway	Aeronomy	AD738848	SR11,377	-
1969-S384	2440400.52	1969 Jun 28 0035	Nike Apache	-	NASA 14.387UA	0.000	GSFC	SS	-	UCO/Anderson	Aeronomy	WDCRF	-	-
1969-S387	2440404.03	1969 Jul 1 1239	Nike Apache	-	STV 87	0.000	SAMSO	SS	-	WSMR/	Aeronomy	AD738848	DTIC	-
1969-S389	2440404.42	1969 Jul 1 2200	Nike Iroquois	-	CRL AH07.888	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1969-S398	2440413.23	1969 Jul 10 1730	Nike Hydac	-	STV 88	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S399	2440413.27	1969 Jul 10 1830	Nike Hydac	-	Ballistic round	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S431	2440433.20	1969 Jul 30 1655	Nike Hydac	-	STV 89	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S432	2440433.24	1969 Jul 30 1745	Nike Hydac	-	Ballistic round	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S411	2440418.62	1969 Jul 16 0250	Nike Tomahawk	-	NASA 18.32UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	-	-
1969-S442	2440439.65	1969 Aug 6 0336	Nike Javelin	-	PCA69 BRL 1	0.000	BRL	SS	-	BRL/Mester	Test	FC	-	-
1969-S444	2440440.65	1969 Aug 7 0336	Nike Iroquois	-	CRL AT07.394?	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S445	2440440.65	1969 Aug 7 0336	Nike Iroquois	-	CRL AT07.179	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	FC	AFCRL	-
1969-S446	2440440.69	1969 Aug 7 0430	Nike Iroquois	-	CRL A07.902-1	0.000	AFCRL	SF	U	AFCRL/Narcisi	Aeron	FC	AFCRL	-
1969-S451	2440446.68	1969 Aug 13 0423	Nike Iroquois	-	CRL A07.902-2	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	FC	AFCRL	-
1969-S452	2440446.77	1969 Aug 13 0630	Nike Apache	-	NASA 14.422UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy/Meteorites	WDCRF	SR11,377	-
1969-S460	2440455.09	1969 Aug 21 1409	Nike Tomahawk	-	NASA 18.78GA	0.000	GSFC	SS	-	UMI/Carignan	Aeronomy	WDCRF	-	-
1969-S461	2440455.13	1969 Aug 21 1509	Nike Tomahawk	-	NASA 18.102GA	0.000	GSFC	SS	-	GSFC/UMI/Carignan,Brace	Aeronomy	WDCRF	-	-
1969-S465	2440455.94	1969 Aug 22 1036	Nike Apache	-	NASA 14.423UG	0.000	GSFC	SS	-	DUD/Hemenway	Meteorites	WDCRF	SR11,377	-
1969-S708	2440462.25	1969 Aug 28 1803	Nike Cajun	-	-	0.000	NRL?	SS	-	NRL/?	Aeron	NRL-FR-7105	-	-
1969-S709	2440462.92	1969 Aug 29 1000	Nike Cajun	-	-	0.000	NRL?	SS	-	NRL/?	Aeron	NRL-FR-7105	-	-
1969-A149	2440469.50	1969 Sep 5	Aerobee 170	-	NRL NE4.234	0.000	NRL	SF	U	NRL/	Solar	WDCRF	-	-
1969-S481	2440470.58	1969 Sep 6 0155	Nike Javelin	-	-	0.000	ARPA	SU	-	UAF/LASL/	Aeron?	DTIC	-	-
1969-S484	2440471.58	1969 Sep 7 0152	Nike Javelin	-	-	0.000	ARPA	SU	-	UAF/LASL/	Aeron?	DTIC	-	-
1969-S492	2440475.37	1969 Sep 10 2046	Nike Apache	-	NASA 14.395UI	0.000	GSFC	SS	-	UIUC/GCA/Mechtly,Smith	Ionos	WDCRF	-	-
1969-S495	2440476.49	1969 Sep 11 2344:14	Nike Tomahawk	12	Sandia 152-109	0.000	SAND	SS	-	LRL/	Aeron	FDS	LRL-ENN73-172	-
1969-S497	2440476.67	1969 Sep 12 0406	Nike Apache	-	NASA 14.394UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1969-S500	2440478.57	1969 Sep 14 0142	Nike Javelin	-	-	0.000	ARPA	SS	-	UAF/LASL/	Aeron?	DTIC	-	-
1969-S517	2440489.55	1969 Sep 25 0111	Nike Hydac	-	STV 90	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S532	2440498.72	1969 Oct 4 0515	Nike Tomahawk	-	NASA 18.71UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	-	-
1969-S537	2440505.58	1969 Oct 11 0200	Nike Iroquois	-	CRL AH07.893?	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S567	2440517.22	1969 Oct 22 1712	Nike Hydac	-	STV 91	0.000	SAMSO	SS	-	WSMR/	Aeron	DTIC	-	-
1969-S590	2440528.38	1969 Nov 2 2110	Nike Javelin	-	-	0.000	AFCRL	SS	-	BRL/Mester,Swider	Ionos	WDCRF	-	-
1969-S593	2440528.77	1969 Nov 3 0629	Nike Iroquois	-	CRL A07.902-3	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S594	2440528.78	1969 Nov 3 0642	Nike Iroquois	-	CRL AT07.396	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1969-S595	2440528.81	1969 Nov 3 0730	Nike Iroquois	-	CRL AG07.882	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S597	2440529.02	1969 Nov 3 1232	Nike Iroquois	-	CRL AT07.397	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1969-S598	2440529.04	1969 Nov 3 1257:00	Nike Javelin	-	-	0.000	BRL	SS	-	BRL/Mester,Swider	Ionos/Plasma	WDCRF	-	-
1969-S599	2440529.06	1969 Nov 3 1330	Nike Javelin	-	-	0.000	BRL	SS	-	BRL/Mester,Swider	Ionos	WDCRF	-	-
1969-S603	2440529.23	1969 Nov 3 1730	Nike Iroquois	-	CRL AH07.886	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S604	2440529.24	1969 Nov 3 1747	Nike Iroquois	-	CRL A07.902-4	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-A185	2440529.28	1969 Nov 3 1840	Nike Iroquois	-	CRL AT07.395	0.000	AFCRL	SF	U	AFCRL/Faire	Aeron	AFCRL	-	-
1969-S605	2440529.29	1969 Nov 3 1854	Nike Javelin	-	-	0.000	BRL	SS	-	BRL/Mester,Swider	Ionos	WDCRF	-	-
1969-S607	2440529.46	1969 Nov 3 2308	Nike Iroquois	-	CRL AT07.398	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1969-S611	2440530.40	1969 Nov 4 2130	Nike Javelin	-	-	0.000	BRL	SS	-	BRL/Mester,Swider	Ionos	WDCRF	-	-
1969-S613	2440530.44	1969 Nov 4 2238:00	Nike Javelin	-	-	0.000	BRL	SS	-	BRL/Mester,Swider	Ionos	WDCRF	FC	-
1969-S614	2440530.45	1969 Nov 4 2250	Nike Iroquois	-	CRL AH07.893	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S619	2440531.37	1969 Nov 5 2049	Nike Iroquois	-	CRL AH07.889	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	FC	AFCRL	-
1969-S622	2440532.62	1969 Nov 7 0251	Nike Iroquois	-	CRL AH07.892	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1969-S630	2440544.40	1969 Nov 18 2132:42	Nike Tomahawk	12	Sandia 152-135	0.000	SAND	SS	-	LRL/	Solar X	ApJ162-287	LRL-ENN73-172	-
1969-S723	2440546.35	1969 Nov 20 2019	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	AD738848	-	-
1969-S635	2440551.53	1969 Nov 26 0038:37	Nike Cajun	-	Ferdinand 21	0.000	NTNF	SS	-	MPE/NDRE/Zahr.,Folkestad	Aeron/Ionos	WDCRF	AND	-
1969-S785	2440555.50	1969 Dec?	Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/	Target	astronautix.com	-	-
1969-S648	2440560.56	1969 Dec 5 0131	Nike Apache	-	NASA 14.353UG	0.000	GSFC	SS	-	DUD/Tackett,Hemenway	XR Astron	AD738848	-	-
1969-S649	2440560.90	1969 Dec 5 0930	Nike Iroquois	-	CRL AH07.680	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S650	2440560.92	1969 Dec 5 1000	Nike Iroquois	-	CRL AH07.681	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S651	2440561.00	1969 Dec 5 1156	Nike Iroquois	-	CRL AH07.676	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-S656	2440565.69	1969 Dec 10 0431	Nike Iroquois	-	CRL A07.907-1	0.000	AFCRL	SS	-	AFCRL/Smiddy	Auroral	AFCRL	-	-
1969-S666	2440567.60	1969 Dec 12 0230	Nike Iroquois	-	CRL AH07.682	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1969-A206	2440568.43	1969 Dec 12 2213	Aerobee 170	-	KP3.26	0.000	KPNO	SF	U	KPNO/Hunten	Solar UV	WDC	KPNO	-
1969-S664	2440568.58	1969 Dec 13 0200	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	DTIC	-	-
1969-S671	2440569.43	1969 Dec 13 2222	Nike Apache	-	NASA 14.445CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	SP-4014	WDCRF	-
1969-S672	2440569.52	1969 Dec 14 0030	Nike Apache	-	NASA 14.446CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	SP-4014	WDCRF	-
1970-S748	2440586.50	1970 Jan?	Nike Hydac	-	-	0.000	AFCRL	SS	-	AFCRL/	Target	astronautix.com	-	-
1970-S49	2440588.78	1970 Jan 2 0642	Nike Apache	-	NASA 14.240II	0.000	GSFC	SS	-	NPL/Somayajulu	Ionos/RF Astron	SR11,1131	IJRadioSP3,87	-
1970-S50	2440591.50	1970 Jan 5	Nike Cajun	-	NASA 10.329GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1970-S51	2440592.40	1970 Jan 5 2130	Nike Cajun	-	NASA 10.325GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	WDCRF	-
1970-S52	2440596.50	1970 Jan 10	Nike Cajun	-	NASA 10.330GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1970-S53	2440596.50	1970 Jan 10	Nike Cajun	-	NASA 10.337GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1970-S55	2440599.73	1970 Jan 13 0532	Nike Tomahawk	12	Sandia 152-137	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1970-S56	2440600.43	1970 Jan 13 2223	Nike Cajun	-	NASA 10.326GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	FC	-	-
1970-A07	2440600.44	1970 Jan 13 2236	Nike Apache	-	NASA 14.459CM	0.000	GSFC	SF	U	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S57	2440600.49	1970 Jan 13 2350:50	Nike Apache	-	NASA 14.384UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	FC	-	-
1970-S58	2440601.07	1970 Jan 14 1347	Nike Apache	-	NASA 14.452GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	SP-4015	-	-
1970-S61	2440600.55	1970 Jan 14 0110	Nike Cajun	-	NASA 10.343GM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S62	2440600.57	1970 Jan 14 0135	Nike Cajun	-	NASA 10.333GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1970-S63	2440600.62	1970 Jan 14 0300	Nike Apache	-	NASA 14.447CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S64	2440600.67	1970 Jan 14 0405:30	Nike Tomahawk	-	NASA 18.64UE	0.000	GSFC	SS	-	UMD/Mathews	Auroral	FC	WISR	-
1970-S66	2440600.71	1970 Jan 14 0500	Nike Apache	-	NASA 14.448CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S67	2440600.80	1970 Jan 14 0717	Nike Apache	-	NASA 14.449CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S68	2440600.89	1970 Jan 14 0915	Nike Apache	-	NASA 14.450CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S69	2440600.98	1970 Jan 14 1135	Nike Apache	-	NASA 14.451CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1970-S60	2440601.22	1970 Jan 14 1723	Nike Apache	-	NASA 14.453GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	SP-4015	-	-
1970-S59	2440601.25	1970 Jan 14 1755	Nike Cajun	-	NASA 10.323GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	SP-4015	-	-
1970-S71	2440602.74	1970 Jan 16 0540	Nike Tomahawk	-	NASA 18.79GM	0.000	GSFC	SS	-	GSFC/Heath,Olgivie	Auroral/Aeronomy	WDCRF	-	-
1970-S75	2440603.63	1970 Jan 17 0303:20	Nike Tomahawk	-	NASA 18.65UE	0.000	GSFC	SS	-	UMD/Mathews	Auroral	WDCRF	-	-
1970-S87	2440616.22	1970 Jan 29 1719	Nike Cajun	-	NASA 10.338GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	USCOSPAR1971	WDCRF	-
1970-M03	2440616.22	1970 Jan 29 1721	Nike Cajun	-	NASA 10.339GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	USCOSPAR1971	WDCRF	-
1970-S94	2440621.07	1970 Feb 3 1344	Nike Cajun	-	NASA 10.340GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	USCOSPAR1971	WDCRF	-
1970-S95	2440621.08	1970 Feb 3 1355	Nike Cajun	-	NASA 10.341GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	USCOSPAR1971	WDCRF	-
1970-S97	2440621.43	1970 Feb 3 2224:33	Nike Tomahawk	-	NASA 18.113IE	0.000	GSFC	SS	-	NDRE/GSFC/Maehlum,Evans	Plasma	WDCRF	AND	-
1970-S99	2440621.70	1970 Feb 4 0441	Nike Apache	-	NASA 14.441UI	0.000	GSFC	SS	-	UTD/Heikkila	Auroral/Ionos	FC	-	-
1970-S101	2440621.76	1970 Feb 4 0619	Nike Tomahawk	-	NASA 18.100UA	0.000	GSFC	SS	-	UAF/Murray	Auroral/Aeronomy	WDCRF	-	-
1970-S103	2440623.16	1970 Feb 5 1551	Aerobee 170	-	NASA 13.13GT	0.000	GSFC	SS	-	GSFC/Busse	Test	WI-PR70-2	WDCRF	-
1970-S104	2440622.60	1970 Feb 5 0221	Nike Tomahawk	-	NASA 18.101UA	0.000	GSFC	SS	-	UAF/Murray	Aeronomy	WDCRF	-	-
1970-S111	2440627.73	1970 Feb 10 0525:55	Nike Tomahawk	-	NASA 18.16UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WDCRF	JGR80.1416	-
1970-S112	2440627.73	1970 Feb 10 0527	Nike Apache	-	NASA 14.442UI	0.000	GSFC	SS	-	UTD/Heikkila	Auroral/Ionos	FC	-	-
1970-S119	2440631.73	1970 Feb 14 0530	Aerobee 170	-	NASA 13.01UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S128	2440636.73	1970 Feb 19 0529	Nike Apache	-	NASA 14.381GE	0.000	GSFC	SS	-	GSFC/Evans	Plasma	FC	-	-
1970-S174	2440645.64	1970 Feb 28 0315	Nike Apache	-	NASA 14.382GE	0.000	GSFC	SS	-	GSFC/Evans	Plasma	WDCRF	-	-
1970-S183	2440647.69	1970 Mar 2 0430	Nike Tomahawk	-	NASA 18.87GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma Ba	WDCRF	-	-
1970-S184	2440647.69	1970 Mar 2 0430	Nike Tomahawk	-	NASA 18.90GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma Ba	WWW-PFRR	-	-
1970-S186	2440649.12	1970 Mar 3 1453	Nike Tomahawk	-	NASA 18.108GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1970-S189	2440650.10	1970 Mar 4 1430	Nike Tomahawk	-	NASA 18.88GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1970-S190	2440650.11	1970 Mar 4 1441	Nike Tomahawk	-	NASA 18.109GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1970-S193	2440651.09	1970 Mar 5 1410	Nike Tomahawk	-	NASA 18.89GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1970-S195	2440651.89	1970 Mar 6 0927	Nike Cajun	-	NASA 10.344GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	AIAA70-1395	WDCRF	-
1970-S196	2440652.27	1970 Mar 6 1824:00	Nike Apache	-	NASA 14.426UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	Horvath72	WDCRF	-
1970-S199	2440652.28	1970 Mar 6 1836:30	Nike Apache	-	NASA 14.456CI	0.000	GSFC	SS	-	GCA/LPARL/Accardo	Ionos/Solar X	WDCRF	-	-
1970-S203	2440653.16	1970 Mar 7 1545	Nike Apache	-	NASA 14.435UI	0.000	GSFC	SS	-	UIUC/Mechtly	Eclipse Ionos	WDCRF	-	-
1970-M05	2440653.17	1970 Mar 7 1600	Nike Cajun	-	NASA 10.345GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Eclipse Aeron	WDCRF	-	-
1970-S204	2440653.20	1970 Mar 7 1651	Nike Iroquois	-	CRL A07.015-1	0.000	AFCRL	SS	-	AFCRL/Faire	Eclipse Aeron	AFCRL	-	-
1970-S206	2440653.25	1970 Mar 7 1759:00	Nike Apache	-	NASA 14.427UM	0.000	GSFC	SS	-	UMI/Horvath	Eclipse Aeron	WDCRF	-	-
1970-S207	2440653.25	1970 Mar 7 1800:00	Nike Tomahawk	-	NASA 18.104GA	0.000	GSFC	SS	-	UMI/GSFC/Brace,Carignan	Eclipse Aeron	WDCRF	-	-
1970-S208	2440653.26	1970 Mar 7 1809	Nike Iroquois	-	CRL A07.024-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Eclipse Aeron,Solar X	AFCRL	-	-
1970-M06	2440653.26	1970 Mar 7 1810	Nike Iroquois	-	CRL A07.016-1	0.000	AFCRL	SS	-	AFCRL/Faire	Eclipse Aeron	AFCRL	-	-
1970-S209	2440653.27	1970 Mar 7 1826:00	Nike Apache	-	NASA 14.428UM	0.000	GSFC	SS	-	UMI/Horvath	Eclipse Aeron	WDCRF	-	-
1970-S210	2440653.27	1970 Mar 7 1827:00	Nike Tomahawk	-	NASA 18.105GA	0.000	GSFC	SS	-	UMI/GSFC/Carignan,Brace	Eclipse Aeron	WDCRF	-	-
1970-S211	2440653.27	1970 Mar 7 1835:55	Aerobee 170	-	NASA 13.03DS	0.000	GSFC/NRL	SS	-	NRL/Brueckner	Eclipse Solar UV	SRctCon2	-	-
1970-S212	2440653.28	1970 Mar 7 1836:30	Nike Apache	-	NASA 14.457CI	0.000	GSFC	SS	-	GCA/Accardo	Eclipse Aeron	WDCRF	-	-
1970-S215	2440653.28	1970 Mar 7 1837:10	Nike Apache	-	NASA 14.436UI	0.000	GSFC	SS	-	UIUC/Mechtly	Eclipse Ionos	WDCRF	-	-
1970-S214	2440653.28	1970 Mar 7 1837:25	Nike Tomahawk	-	NASA 18.106GA	0.000	GSFC	SS	-	GSFC/UMD/Maier	Eclipse Aeron	WDCRF	-	-
1970-M07	2440653.28	1970 Mar 7 1837:30	Nike Iroquois	-	CRL A07.902-9	0.000	AFCRL	SS	-	AFCRL/Philbrick	Eclipse Aeron	AFCRL	-	-
1970-S216	2440653.28	1970 Mar 7 1838:00	Nike Apache	-	NASA 14.437UI	0.000	GSFC	SS	-	UIUC/Mechtly	Eclipse Ionos	WDCRF	-	-
1970-S217	2440653.28	1970 Mar 7 1839:30	Nike Iroquois	-	CRL A07.902-5	0.000	AFCRL	SS	-	AFCRL/Philbrick	Eclipse Aeron	AFCRL	-	-
1970-M08	2440653.28	1970 Mar 7 1840:30	Nike Cajun	-	NASA 10.346GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Eclipse Aeronomy	WDCRF	-	-
1970-S218	2440653.28	1970 Mar 7 1840:40	Nike Apache	-	NASA 14.438UI	0.000	GSFC	SS	-	UIUC/Mechtly	Eclipse Ionos	WDCRF	-	-
1970-S201	2440653.28	1970 Mar 7 1841:00	Nike Apache	-	NASA 14.429UM	0.000	GSFC	SS	-	UMI/Horvath	Eclipse Aeron	Horvath72	WDCRF	-
1970-S219	2440653.28	1970 Mar 7 1846	Nike Iroquois	-	CRL A07.902-10	0.000	AFCRL	SS	-	AFCRL/Philbrick	Eclipse Aeron	AFCRL	SR13,255	-
1970-S226	2440653.31	1970 Mar 7 1925	Nike Iroquois	-	CRL A07.016-2	0.000	AFCRL	SS	-	AFCRL/Faire	Eclipse Aeron	AFCRL	-	1915/FDC
1970-S228	2440653.32	1970 Mar 7 1944	Nike Iroquois	-	CRL A07.024-2	0.000	AFCRL	SS	-	AFCRL/Weeks	Eclipse Aeron/Solar X	AFCRL	-	-
1970-S229	2440653.50	1970 Mar 8	Nike Cajun	-	NASA 10.331GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WISR	-	-
1970-S230	2440654.23	1970 Mar 8 1725:00	Nike Apache	-	NASA 14.430UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	Horvath72	WDCRF	-
1970-S231	2440653.51	1970 Mar 8 0017:36	Nike Tomahawk	-	NASA 18.114IE	0.000	NTNF	SS	-	NDRE/Folkestad	Auroral/Ionos/Plas	AND	WDCRF	-
1970-S234	2440654.63	1970 Mar 9 0314	Nike Tomahawk	-	CRL AT08.298	0.000	AFCRL	SS	-	AFCRL/Vancour	Auroral	AFCRL	-	-
1970-S235	2440654.64	1970 Mar 9 0321	Nike Iroquois	-	CRL A07.907-2	0.000	AFCRL	SS	-	AFCRL/Smiddy,Sagalyn	Plasma	AFCRL	-	-
1970-S237	2440655.10	1970 Mar 9 1430	Nike Tomahawk	-	NASA 18.97GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	-	-
1970-S238	2440655.32	1970 Mar 9 1938	Nike Tomahawk	-	NASA 18.98GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	-	-
1970-S679	2440655.32	1970 Mar 9 1946	Nike Cajun	-	3-Sphere Ejection	0.000	USAF?	SS	-	AFCRL/?	Aeron	AD738848	-	-
1970-S236	2440655.36	1970 Mar 9 2035	Nike Tomahawk	-	NASA 18.99GI	0.000	GSFC	SS	-	GSFC/UCB/Aikin,Bowyer	Ionos/EUV Astron	WDCRF/JGR	JGR78,71	-
1970-S243	2440658.39	1970 Mar 12 2122	Nike Hydac	-	STV 92	0.000	SAMSO	SU	-	WSMR/	Aeron?	DTIC	-	-
1970-S251	2440664.64	1970 Mar 19 0319	Nike Apache	-	NASA 14.425GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	SR13,477	-
1970-S255	2440664.71	1970 Mar 19 0509	Nike Apache	-	NASA 14.424GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	-	-
1970-S257	2440664.92	1970 Mar 19 1001	Nike Apache	-	NASA 14.372GI	0.000	GSFC	SS	-	GSFC/Somayajulu	Ionos	WDCRF	-	-
1970-M17	2440666.49	1970 Mar 20 2350	Nike Cajun	-	NASA 10.277NA	0.000	GSFC	SS	-	MSC/Potter	Aeronomy	WDCRF	-	-
1970-S260	2440669.46	1970 Mar 23 2258:24	Nike Cajun	-	Ferdinand 22	0.000	NTNF	SS	-	MPE/NDRE/Zahr.,Folkestad	Aeron/Ionos	AND	WDCRF	-
1970-S263	2440670.79	1970 Mar 25 0701	Nike Iroquois	-	CRL A07.907-3	0.000	AFCRL	SS	-	AFCRL/Smiddy,Sagalyn	Plasma	AFCRL	-	-
1970-S265	2440671.64	1970 Mar 26 0317	Nike Iroquois	-	CRL A07.907-4	0.000	AFCRL	SS	-	AFCRL/Smiddy,Sagalyn	Plasma	FC	AFCRL	-
1970-S267	2440671.70	1970 Mar 26 0445	Nike Tomahawk	-	NASA 18.82UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1970-S268	2440672.73	1970 Mar 27 0525	Nike Apache	-	NASA 14.405IE/II	0.000	GSFC	SS	-	PRL/Prakash,Sastry	Plasma/Ionos	WDCRF	-	-
1970-S269	2440673.16	1970 Mar 27 1550	Nike Cajun	-	Rehbar 21	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	WDCRF/SP4015	-	-
1970-S271	2440674.16	1970 Mar 28 1545	Nike Cajun	-	Rehbar 22	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron	WDCRF	SP4015	-
1970-S281	2440679.88	1970 Apr 3 0903	Nike Hydac	-	GI-SF6	0.000	AFCRL	SS	-	UAF/Davis,Moore	Auroral Release	WWW-PFRR	Davis-Poker	-
1970-S669	2440685.50	1970 Apr 9	Nike Cajun	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	DTIC	-	-
1970-S671	2440686.26	1970 Apr 9 1816	Nike Javelin	-	-	0.000	AFCRL	SS	-	AFCRL/?	Aeron	DTIC	-	-
1970-S295	2440687.66	1970 Apr 11 0345	Nike Tomahawk	-	NASA 18.91UE	0.000	GSFC	SS	-	UMN/UNH/Arnoldy,Cahill	Plasma/Auroral	WDCRF	-	-
1970-M20	2440689.30	1970 Apr 12 1914	Nike Iroquois	-	CRL A07.913-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1970-S299	2440691.15	1970 Apr 14 1530	Aerobee 350	-	NASA 17.05GT-GG	0.000	GSFC	SS	-	GSFC/Lane	XR Astron/Test	WDCRF	-	-
1970-S304	2440692.78	1970 Apr 16 0640	Nike Apache	-	NASA 14.443UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	FC	-	-
1970-S339	2440712.08	1970 May 5 1400	Nike Hydac	-	STV-94	0.000	SAMSO	SU	-	WSMR/	Aeron?	www.dtic.mil	-	-
1970-S338	2440712.21	1970 May 5 1700	Nike Hydac	-	STV-93	0.000	SAMSO	SU	-	WSMR/	Aeron?	www.dtic.mil	-	-
1970-S343	2440711.77	1970 May 5 0626	Nike Tomahawk	12	Sandia 152-136	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1970-S345	2440714.55	1970 May 8 0105	Nike Iroquois	-	CRL AH07.677	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	FDC	AFCRL	-
1970-S346	2440714.61	1970 May 8 0235	Nike Iroquois	-	CRL A07.901-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	StPeteTimes700509	-	07/0145/AFCRL
1970-S348	2440714.93	1970 May 8 1015	Aerobee 170	-	NASA 13.06UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1970-S361	2440727.55	1970 May 21 0108	Nike Iroquois	-	CRL A07.901-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	Ulrich/Wire	AFCRL	-
1970-S364	2440727.91	1970 May 21 0945	Nike Iroquois	-	CRL A07.901-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	CDT assumed
1970-S365	2440727.92	1970 May 21 1006	Nike Iroquois	-	CRL A07.901-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1970-S367	2440728.97	1970 May 22 1112	Nike Iroquois	-	CRL A07.901-5	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron Ba	AFCRL	-	-
1970-S684	2440732.94	1970 May 26 1030	Nike Cajun	?	Sandia 154-200	0.000	SAND	SS	-	SAND/Smith	Aeron	USCOSPAR71	-	-
1970-S685	2440733.86	1970 May 27 0845	Nike Tomahawk	?	Sandia 152-119	0.000	SAND	SS	-	SAND/Woods	Aeron	USCOSPAR71	-	-
1970-S686	2440743.87	1970 Jun 6 0853	Nike Cajun	?	Sandia 154-201	0.000	SAND	SS	-	SAND/Smith	Aeron	USCOSPAR71	-	-
1970-S687	2440744.70	1970 Jun 7 0453	Nike Tomahawk	?	Sandia 152-118	0.000	SAND	SS	-	SAND/Woods	Aeron	USCOSPAR71	-	-
1970-S401	2440760.17	1970 Jun 22 1600	Nike Cajun	-	NASA 10.332GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1970-S405	2440763.15	1970 Jun 25 1537	Nike Cajun	-	NASA 10.342GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1970-S408	2440764.70	1970 Jun 27 0455	Aerobee 170	-	NASA 13.12CG	0.000	GSFC	SS	-	ASE/Gorenstein	XR Astron	WDCRF	Science172,369	-
1970-S409	2440764.86	1970 Jun 27 0845	Nike Apache	-	NASA 14.413UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	-	-
1970-S435	2440784.17	1970 Jul 16 1600	Nike Cajun	-	NASA 10.320UI	0.000	GSFC	SS	-	UIUC/Mechtly	Ionos	WDCRF	-	-
1970-S670	2440791.23	1970 Jul 23 1730	Nike Cajun	-	3-Sphere Ejection	0.000	AFCRL	SS	-	AFCRL/?	Aeron	DTIC	-	-
1970-S451	2440794.77	1970 Jul 27 0635	Aerobee 170	-	CRL A04.004-1	0.000	AFCRL	SS	-	AFCRL/Wallace	IR Astron	AFCRL	-	-
1970-S455	2440798.03	1970 Jul 30 1246	Nike Tomahawk	-	NASA 18.72UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	-	-
1970-S462	2440802.17	1970 Aug 3 1609:00	Nike Apache	-	NASA 14.466UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1970-S473	2440806.51	1970 Aug 8 0012	Nike Apache	-	NASA 14.462DA	0.000	RTG	SS	-	AFCRL/Chrest	Aeronomy	WDCRF	-	-
1970-S472	2440806.53	1970 Aug 8 0048:10	Nike Apache	-	NASA 14.454UA	0.000	RTG	SS	-	DUD/Hemenway	Aeronomy	WDCRF/ESRLV	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S475	2440806.56	1970 Aug 8 0132	Nike Apache	-	NASA 14.463DA	0.000	RTG	SS	-	AFCRL/Chrest	Aeronomy	WDCRF	-	-
1970-S474	2440806.62	1970 Aug 8 0254	Nike Apache	-	NASA 14.455UA	0.000	RTG	SS	-	DUD/Hemenway	Aeronomy	WDCRF	-	-
1970-S457	2440809.22	1970 Aug 10 1719	Nike Hydac	-	STV 95	0.000	SAMSO	SS	-	SAMSO/	Reentry test	WSMR	-	-
1970-S482	2440811.29	1970 Aug 12 1852	Aerobee 170	-	CRL A04.002-1	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1970-S483	2440812.19	1970 Aug 13 1631	Aerobee 350	-	NASA 17.06UE	0.000	GSFC	SS	-	UMN/Winckler	Plasma	NaturePS231,11	-	-
1970-S664	2440820.15	1970 Aug 21 1539:00	Nike Apache	-	NASA 14.431UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	Horvath72	-	-
1970-S491	2440820.71	1970 Aug 22 0458	Aerobee 170	-	NASA 13.17DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron?	WDCRF	-	-
1970-S497	2440826.70	1970 Aug 28 0443	Nike Apache	-	NASA 14.414UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	-	-
1970-S495	2440827.67	1970 Aug 29 0400	Nike Hydac	-	STV 96	0.000	SAMSO	SS	-	SAMSO/	Reentry test	DTIC	-	-
1970-S522	2440847.15	1970 Sep 17 1542	Nike Cajun	-	NASA 10.324GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1970-S523	2440847.17	1970 Sep 17 1558:00	Nike Apache	-	NASA 14.385UM	0.000	GSFC	SS	-	UMI/Horvath,Allen	Aeronomy	WDCRF	-	-
1970-S528	2440851.18	1970 Sep 21 1614:00	Nike Cajun	-	NASA 10.327UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1970-S529	2440851.67	1970 Sep 22 0400	Nike Apache	-	NASA 14.464UA	0.000	GSFC	SF	U	UCO/Barth	Aeronomy	WDCRF	-	-
1970-S530	2440851.69	1970 Sep 22 0430	Aerobee 170	-	NASA 13.07GG	0.000	GSFC	SS	-	GSFC/Holt	XR Astron	WDCRF	NatPS233,110	-
1970-S538	2440857.88	1970 Sep 28 0901	Aerobee 170	-	NASA 13.26CG	0.000	GSFC	SS	-	ASE/Kellogg	XR Astron	WDCRF	-	-
1970-S546	2440861.07	1970 Oct 1 1346:12	Nike Apache	-	N-NA-30	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1970-S554	2440866.07	1970 Oct 6 1336:25	Nike Apache	-	N-NA-31	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1970-S680	2440865.58	1970 Oct 6 0200	Nike Cajun	-	-	0.000	WSMR?	SS	-	WSMR/	Aeron	AD738848	-	-
1970-S681	2440865.67	1970 Oct 6 0400	Nike Cajun	-	-	0.000	WSMR?	SS	-	WSMR/	Aeron	AD738848	-	-
1970-S678	2440866.58	1970 Oct 7 0200	Nike Cajun	-	-	0.000	WSMR?	SS	-	WSMR/	Aeron	AD738848	-	-
1970-A171	2440866.67	1970 Oct 7 0400	Nike Cajun	-	-	0.000	WSMR?	SF	U	WSMR/	Aeron	AD738848	-	-
1970-S557	2440866.91	1970 Oct 7 0948	Nike Tomahawk	-	NASA 18.54NE	0.000	GSFC	SS	-	LARC/Baber	Plasma	WDCRF	-	-
1970-S561	2440868.06	1970 Oct 8 1329:19	Nike Apache	-	N-NA-32	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1970-S562	2440868.11	1970 Oct 8 1442:38	Nike Apache	-	N-NA-33	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1970-S564	2440872.12	1970 Oct 12 1458:00	Nike Apache	-	N-NA-34	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1970-S568	2440874.20	1970 Oct 14 1641	Nike Cajun	-	NASA 10.276AM	0.000	GSFC	SS	-	ESSA/UMI/Henderson,Horv.	Aeronomy	WDCRF	-	-
1970-S750	2440881.45	1970 Oct 21 2241	Nike Hydac	-	-	0.000	AFCRL?	SS	-	AFCRL/?	Aeron	Ulrich/FDC	-	-
1970-S579	2440882.10	1970 Oct 22 1424:26	Nike Apache	-	N-NA-35	0.000	DLR	SS	-	BRSW/	Ionos/Plasma?	Moraba	-	-
1979-S751	2440882.27	1970 Oct 22 1830	Nike Apache	-	-	0.000	AFCRL?	SS	-	AFCRL/?	Aeron	Ulrich/FDC	-	-
1970-S589	2440890.94	1970 Oct 31 1032	Aerobee 170	-	NASA 13.41GG-UG	0.000	GSFC	SS	-	GSFC/Boggess,Evans	UV Astron	WDCRF	SR12,1589	-
1970-S600	2440900.96	1970 Nov 10 1109	Nike Tomahawk	-	NASA 18.92UE	0.000	GSFC	SS	-	UMN/UNH/Cahill,Arnoldy	Plasma	WWW-PFRR	-	-
1970-S606	2440904.43	1970 Nov 13 2219:41	Nike Tomahawk	-	NASA 18.115IE	0.000	GSFC	SS	-	NDRE/KGO/Folk.,Christop.	Auroral	ESA-SP135-125	AND	-
1970-S726	2440907.47	1970 Nov 16 2319	Nike Iroquois	-	-	0.000	AFCRL	SS	-	AFCRL/Rosenberg?	Aeron	FDC	-	-
1970-S682	2440908.43	1970 Nov 17 2220	Nike Apache	-	-	0.000	AFCRL?	SU	-	AFCRL/?	Aeron?	FirstDayCover	-	-
1970-S608	2440909.02	1970 Nov 18 1230	Nike Tomahawk	-	NASA 18.93UE	0.000	GSFC	SS	-	UMN/UNH/Cahill,Arnoldy	Plasma	WDCRF	-	-
1970-S611	2440911.29	1970 Nov 20 1900	Nike Apache	-	NASA 14.458UA	0.000	GSFC	SF	U	PITT/Donahue	Aeronomy	WDCRF	-	-
1970-S612	2440911.47	1970 Nov 20 2319	Nike Iroquois	-	CRL A07.901-6	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	SR13,203	-
1970-S613	2440911.47	1970 Nov 20 2319	Nike Iroquois	-	CRL A07.917-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	SR13,435	-
1970-S614	2440911.47	1970 Nov 20 2323	Nike Iroquois	-	CRL AT07.895	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	SR13,255	-
1970-S615	2440911.47	1970 Nov 20 2323	Nike Iroquois	-	CRL AT07.896	0.000	AFCRL	SS	-	AFCRL/Philbrick	Ionos	AFCRL	-	-
1970-S616	2440911.48	1970 Nov 20 2326	Nike Iroquois	-	CRL A07.917-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1970-S617	2440911.48	1970 Nov 20 2326	Nike Iroquois	-	CRL A07.917-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1970-S618	2440911.48	1970 Nov 20 2329:00	Nike Apache	-	NASA 14.460UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1970-S632	2440922.86	1970 Dec 2 0832	Aerobee 170	-	CRL A04.004-3	0.000	AFCRL	SS	-	CORN/AFCRL/Pipher,Harwit	IR Astron	AFCRL	KPNO	-
1970-S638	2440931.19	1970 Dec 10 1627	Nike Tomahawk	-	DLR W-NT-36	0.000	DLR	SS	-	FRANK/Lotz	Bio	Moraba	WI-PR70-24	-
1970-S645	2440935.63	1970 Dec 15 0308	Nike Apache	-	NASA 14.470CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	GCA-TR-73-2-N	-
1970-S646	2440935.72	1970 Dec 15 0518	Nike Apache	-	NASA 14.471CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	GCA-TR-73-2-N	-
1970-S647	2440935.79	1970 Dec 15 0700	Nike Apache	-	NASA 14.472CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	GCA-TR-73-2-N	-
1970-S648	2440935.88	1970 Dec 15 0904	Nike Apache	-	NASA 14.473CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	GCA-TR-73-2-N	-
1970-S649	2440935.98	1970 Dec 15 1127	Nike Apache	-	NASA 14.474CM	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	GCA-TR-73-2-N	-
1970-S651	2440937.19	1970 Dec 16 1639	Nike Tomahawk	-	DLR W-NT-37	0.000	DLR	SS	-	FRANK/Lotz	Bio	Moraba	-	-
1970-S653	2440938.31	1970 Dec 17 1923	Nike Apache	-	NASA 14.418UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WDCRF	-	-
1970-S655	2440939.63	1970 Dec 19 0310:02	Aerobee 170	-	NASA 13.11UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	AAp21,131	-
1971-S04	2440951.50	1971 Jan	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S05	2440951.50	1971 Jan	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S50	2440959.33	1971 Jan 7 2001	Nike Cajun	-	NASA 10.365GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S51	2440959.34	1971 Jan 7 2015	Nike Cajun	-	NASA 10.347GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1971-S52	2440959.35	1971 Jan 7 2030	Nike Cajun	-	NASA 10.372GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S53	2440960.40	1971 Jan 8 2141	Nike Iroquois	-	CRL A07.016-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR13,197	-
1971-S55	2440960.44	1971 Jan 8 2231	Nike Iroquois	-	CRL A07.015-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR13,197	-
1971-S59	2440963.83	1971 Jan 12 0750	Nike Cajun	-	NASA 10.366GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S60	2440964.37	1971 Jan 12 2053	Nike Cajun	-	NASA 10.373GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S61	2440964.60	1971 Jan 13 0230	Nike Cajun	-	NASA 10.279NA	0.000	GSFC	SS	-	MSC/Potter	Aeronomy	WDCRF	-	-
1971-S62	2440965.17	1971 Jan 13 1600	Nike Cajun	-	NASA 10.369GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1971-S64	2440967.35	1971 Jan 15 2030:00	Nike Tomahawk	-	MUMP 10	0.000	MSFC	SS	-	UMI/MSFC/Carignan	Aeron	WDCRF	-	-
1971-S65	2440967.54	1971 Jan 16 0055:00	Nike Tomahawk	-	MUMP-9	0.000	MSFC	SS	-	UMI/MSFC/Carignan	Aeron	WDCRF	-	-
1971-S70	2440969.15	1971 Jan 17 1533:00	Nike Tomahawk	-	DLR A-NT-39	0.000	DLR	SS	-	MPE/Haerendel	Ionos/Fields	Moraba	AND	-
1971-S79	2440974.35	1971 Jan 22 2022:42	Nike Tomahawk	-	NASA 18.116IE	0.000	GSFC	SS	-	NDRE/GSFC/Maehlum,Evans	Plasma	AND	WDCRF	-
1971-S85	2440976.85	1971 Jan 25 0819	Nike Apache	-	NASA 14.324GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	WDCRF	-	-
1971-S88	2440977.10	1971 Jan 25 1426	Aerobee 170	-	NASA 13.46UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	JGR78,258	AnnalesGeo28,489	-
1971-S89	2440977.13	1971 Jan 25 1512	Nike Apache	-	NASA 14.432GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	WDCRF	IJRadioSP4,289	-
1971-S98	2440979.72	1971 Jan 28 0510	Nike Apache	-	NASA 14.409II	0.000	GSFC	SS	-	PRL/Prakash	Ionos	WDCRF	IJRadioSP1,72	-
1971-S99	2440979.74	1971 Jan 28 0540	Nike Apache	-	NASA 14.410II	0.000	GSFC	SS	-	PRL/Prakash	Ionos	WDCRF	IJRadioSP1,72	-
1971-S100	2440980.16	1971 Jan 28 1555:00	Nike Tomahawk	-	DLR A-NT-38	0.000	DLR	SS	-	MPE/Haerendel	Ionos/Fields	Moraba	AND	-
1971-S104	2440981.21	1971 Jan 29 1703	Nike Apache	-	NASA 14.167GI	0.000	GSFC	SS	-	GSFC/Aikin	Ionos	WDCRF	SP-4016	-
1971-S106	2440983.08	1971 Jan 31 1355	Nike Apache	-	NASA 14.373GI	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	WDCRF	-	-
1971-S703	2440985.20	1971 Feb 2 1652	Nike Tomahawk	-	-	0.000	AFCRL?	SS	-	AFCRL/?	Aeron?	Ulrich/FDC	-	-
1971-S120	2440991.08	1971 Feb 8 1356	Aerobee 170	-	NASA 13.51UA	0.000	GSFC	SS	-	UMI/Hays	Aeronomy	KPNO	JGR78,1153	-
1971-S122	2440996.85	1971 Feb 14 0817	Nike Tomahawk	-	NASA 18.110UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	WDCRF	-	-
1971-S126	2441004.53	1971 Feb 22 0043	Aerobee 350	-	NASA 17.09UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WDCRF	Desind	-
1971-S135	2441010.50	1971 Mar	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S136	2441010.50	1971 Mar	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S138	2441011.89	1971 Mar 1 0915	Aerobee 170	-	NASA 13.22UG	0.000	GSFC	SS	-	UWI/Bless	UV Astron?	KPNO	-	-
1971-S147	2441016.08	1971 Mar 5 1400	Nike Cajun	-	NASA 12.19GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S148	2441021.23	1971 Mar 10 1738	Nike Cajun	-	NASA 10.382GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S149	2441021.25	1971 Mar 10 1759:00	Nike Apache	-	NASA 14.478UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	Horvath72	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S150	2441021.27	1971 Mar 10 1826:00	Nike Apache	-	NASA 14.479UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1971-S151	2441021.28	1971 Mar 10 1841:00	Nike Apache	-	NASA 14.480UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1971-S152	2441021.30	1971 Mar 10 1911	Nike Cajun	-	NASA 10.383GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S155	2441021.94	1971 Mar 11 1037	Nike Tomahawk	-	Caribou V	0.000	SAND	SS	-	LASL/Theobald	Auroral UV	WWW-PFRR	-	-
1971-S156	2441022.68	1971 Mar 12 0413	Nike Iroquois	-	CRL A07.015-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR13,197	-
1971-S157	2441022.79	1971 Mar 12 0655	Nike Iroquois	-	CRL A07.913-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S160	2441023.53	1971 Mar 13 0050	Nike Apache	-	NASA 14.388UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	KPNO	-	-
1971-S164	2441026.22	1971 Mar 15 1719	Nike Tomahawk	-	NASA 18.126GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	TMX70450	SP-4016	-
1971-S165	2441025.50	1971 Mar 15	Nike Tomahawk	-	NASA 18.122GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	SP-4016	-
1971-M03	2441025.75	1971 Mar 15 0601	Nike Cajun	-	NASA 10.375GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S170	2441026.88	1971 Mar 16 0905	Nike Tomahawk	-	NASA 18.14UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1971-M04	2441027.05	1971 Mar 16 1316	Nike Cajun	-	NASA 10.376GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S171	2441027.29	1971 Mar 16 1900	Aerobee 170	-	CRL A04.002-2	0.000	AFCRL	SS	-	AFCRL/Hinteregger	Solar EUV	AFCRL	-	-
1971-S173	2441027.96	1971 Mar 17 1057	Nike Tomahawk	-	NASA 18.95UA	0.000	GSFC	SS	-	UAF/Murcray	Aeronomy	WWW-PFRR	-	-
1971-S175	2441029.21	1971 Mar 18 1700	Nike Tomahawk	-	NASA 18.127GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	TMX70450	-	-
1971-S177	2441029.32	1971 Mar 18 1939	Nike Cajun	-	NASA 10.380GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S178	2441029.50	1971 Mar 19	Nike Tomahawk	-	NASA 18.129GE	0.000	GSFC	SS	-	GSFC/Ledley	Plasma	WDCRF	-	-
1971-S179	2441029.50	1971 Mar 19	Nike Tomahawk	-	NASA 18.123GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1971-S186	2441030.00	1971 Mar 19 1205	Nike Tomahawk	-	NASA 18.94UA	0.000	GSFC	SS	-	UAF/Murcray	Aeronomy	WISR	-	-
1971-S187	2441030.03	1971 Mar 19 1238	Nike Tomahawk	-	-	0.000	SAND	SS	-	UCSD/Chivers	Ionos/Auroral	WWW-PFRR	-	-
1971-S188	2441030.50	1971 Mar 20	Nike Tomahawk	-	NASA 18.124GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1971-S189	2441030.73	1971 Mar 20 0530	Aerobee 170	-	NASA 13.21UG	0.000	GSFC	SF	U	UWI/Kraushaar	XR Astron	KPNO	-	-
1971-S190	2441030.74	1971 Mar 20 0542:41	Nike Tomahawk	-	CRL A08.019-1	0.000	AFCRL	SS	-	AFCRL/Vancour	Auroral	FC	AFCRL	-
1971-S191	2441030.74	1971 Mar 20 0544:01	Nike Iroquois	-	CRL A07.019-2	0.000	AFCRL	SS	-	AFCRL/Vancour	Auroral	FC	AFCRL	-
1971-S193	2441030.84	1971 Mar 20 0815	Nike Tomahawk	-	NASA 18.17UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1971-S194	2441031.50	1971 Mar 21	Nike Tomahawk	-	NASA 18.125GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1971-S196	2441033.20	1971 Mar 22 1650	Nike Tomahawk	-	NASA 18.128GE	0.000	GSFC	SS	-	GSFC/Ledley	Plasma	WDCRF	-	-
1971-S650	2441036.20	1971 Mar 25 1647	Nike Cajun	-	Sphere Ejection	0.000	USAF?	SS	-	AFCRL/?	Aeron	AD738848	-	-
1971-S209	2441038.02	1971 Mar 27 1226	Nike Tomahawk	-	-	0.000	SAND	SS	-	UCSD/Chivers	Ionos/Auroral	WWW-PFRR	-	-
1971-S222	2441041.83	1971 Mar 31 0751	Nike Tomahawk	-	NASA 18.130CE	0.000	GSFC	SS	-	TRW/Bernstein	Auroral	WDCRF	-	-
1971-S225	2441044.91	1971 Apr 3 0950	Aerobee 170	-	CRL A04.004-2	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1971-S237	2441061.06	1971 Apr 19 1325	Nike Apache	-	NASA 14.406IA	0.000	GSFC	SS	-	PRL/Bhavsar,Desai	Aeronomy	WDCRF	SR15,267	-
1971-S246	2441064.55	1971 Apr 23 0118	Nike Apache	-	NASA 14.465UA	0.000	GSFC	SS	-	UCO/Barth,Anderson	Aeronomy	WDCRF	-	-
1971-S247	2441064.57	1971 Apr 23 0147:35	Nike Apache	-	NASA 14.467UA	0.000	GSFC	SS	-	MPIK/DUD/Rauser,Toser	Meteorites	SR13,1127	WDCRF	-
1971-S249	2441066.75	1971 Apr 25 0600	Nike Apache	-	NASA 14.407II/IE	0.000	GSFC	SS	-	PRL/ISAS/Bhavsar,Hirao	Ionos/Plasma	WDCRF	-	-
1971-S250	2441067.06	1971 Apr 25 1325	Nike Apache	-	NASA 14.408IA	0.000	GSFC	SF	U	PRL/Bhavsar,Rao	Aeronomy	WDCRF	-	-
1971-S252	2441067.50	1971 Apr 26	Nike Cajun	-	NASA 10.387II	0.000	GSFC	SS	-	INTA/Azcarraga	Ionos	WISR	-	-
1971-S253	2441067.50	1971 Apr 26	Nike Cajun	-	NASA 10.388II	0.000	GSFC	SS	-	INTA/Azcarraga	Ionos	WISR	-	-
1971-S254	2441068.32	1971 Apr 26 1934	Nike Cajun	-	NASA 10.386II	0.000	GSFC	SS	-	INTA/Azcarraga	Ionos	WISR	-	-
1971-S256	2441068.43	1971 Apr 26 2215	Nike Cajun	-	NASA 10.319II	0.000	INTA/GSFC	SS	-	INTA/Azcarraga	Ionos	WDCRF	-	-
1971-S261	2441071.19	1971 Apr 29 1632	Aerobee 170	-	NASA 13.14CS	0.000	GSFC	SS	-	LPARL/Acton	Solar X	WDCRF	SoPh26,183	-
1971-S262	2441071.76	1971 Apr 30 0608	Nike Apache	-	NASA 14.411II	0.000	GSFC	SS	-	PRL/ISAS/Bhavsar,Rao	Ionos	WDCRF	-	-
1971-S266	2441072.90	1971 May 1 0935	Aerobee 170	-	NASA 13.36UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1971-S268	2441077.55	1971 May 6 0116	Nike Iroquois	-	CRL A07.902-7	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S270	2441080.18	1971 May 8 1615	Nike Iroquois	-	CRL A07.902-8	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S278	2441083.70	1971 May 12 0445	Nike Cajun	-	NASA 10.280NA	0.000	GSFC	SS	-	MSC/Potter	Aeronomy	WDCRF	-	-
1971-S279	2441084.55	1971 May 13 0110	Nike Cajun	-	NASA 10.278NA	0.000	GSFC	SS	-	MSC/Potter	Aeronomy	WDCRF	-	-
1971-S679	2441087.38	1971 May 15 2102	Nike Iroquois	-	-	0.000	AFCRL	SU	-	AFCRL/	Aeron	FDC	-	-
1971-S283	2441088.83	1971 May 17 0802:00	Nike Iroquois	?	-	0.000	AFCRL	SU	-	AFCRL/	Aeron	WDCRF	-	-
1971-S284	2441088.83	1971 May 17 0802:00	Nike Iroquois	?	-	0.000	AFCRL	SU	-	AFCRL/	Aeron	WDCRF	-	-
1971-S286	2441089.52	1971 May 18 0024	Nike Iroquois	-	CRL A07.913-5	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S287	2441089.55	1971 May 18 0105	Nike Iroquois	-	CRL A07.917-5	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1971-S288	2441089.55	1971 May 18 0108	Nike Iroquois	-	CRL A07.918-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1971-S295	2441089.59	1971 May 18 0206	Nike Iroquois	-	CRL A07.921-1	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S289	2441089.60	1971 May 18 0221	Nike Iroquois	-	CRL A07.015-4	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S290	2441089.61	1971 May 18 0241	Nike Tomahawk	-	CRL A08.919-2	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	-	-
1971-S291	2441089.63	1971 May 18 0305	Nike Iroquois	-	CRL A07.918-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1971-S293	2441089.92	1971 May 18 1009	Nike Iroquois	-	CRL A07.917-6	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1971-S294	2441090.55	1971 May 19 0114	Nike Iroquois	-	CRL A07.918-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	SR13,249	-
1971-S298	2441092.55	1971 May 21 0115	Nike Iroquois	-	CRL A07.917-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1971-S654	2441092.25	1971 May 20 1800	Nike Hydac	-	BE-01 IEO	0.000	WSMR?	SS	-	WSMR/?	Test?	AD738848	-	-
1971-S301	2441096.90	1971 May 25 0937:00	Nike Tomahawk	12	Sandia 152-171	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1971-S304	2441097.92	1971 May 26 1010	Nike Tomahawk	-	-	0.000	SAND	SS	-	LEID/NAG/Bleeker,Ha	XR Astron	ApJ178,377	FDS	-
1971-S634	2441098.16	1971 May 26 1556:10	Nike Tomahawk	12	Sandia 152-?	0.000	SAND	SS	-	SAND/Tisone	Aeron	JGR78,746	-	-
1971-S306	2441098.48	1971 May 26 2331	Nike Cajun	-	INTA NC-7102	0.000	INTA	SS	-	INTA/Azcarraga	Ionos	WDCRF	-	-
1971-S308	2441098.57	1971 May 27 0141	Nike Cajun	-	INTA NC-7103	0.000	INTA	SS	-	INTA/Azcarraga	Ionos	WDCRF	-	-
1971-S311	2441099.62	1971 May 28 0252	Nike Cajun	-	INTA NC-7104	0.000	INTA	SS	-	INTA/Azcarraga	Ionos	WDCRF	-	-
1971-S326	2441113.47	1971 Jun 10 2310	Aerobee 350	-	NASA 17.11UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy/Test	WDCRF	AnnalesGeo28,489	-
1971-S338	2441126.74	1971 Jun 24 0550	Aerobee 350	-	NASA 17.08CG	0.000	GSFC	SS	-	LPARL/Acton	XR Astron	KPNO	-	-
1971-S339	2441127.12	1971 Jun 24 1500	Nike Cajun	-	NASA 10.367GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S340	2441127.13	1971 Jun 24 1510	Nike Cajun	-	NASA 10.371GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S347	2441130.13	1971 Jun 27 1507	Nike Cajun	-	NASA 10.334GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1971-S349	2441131.88	1971 Jun 29 0910	Aerobee 170	-	CRL A04.004-4	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1971-S351	2441131.97	1971 Jun 29 1112	Aerobee 170	-	CRL A04.116-1	0.000	AFSC	SS	-	AFCRL/	ABM Tech IR	Wire	AFCRL	-
1971-S354	2441135.11	1971 Jul 2 1437	Nike Cajun	-	NASA 10.328GM	0.000	GSFC	SS	-	GSFC/Smith	Aeronomy	WDCRF	-	-
1971-S355	2441135.11	1971 Jul 2 1442	Nike Cajun	-	NASA 10.335GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S357	2441135.33	1971 Jul 2 1959	Nike Cajun	-	NASA 10.368GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S358	2441135.34	1971 Jul 2 2005	Nike Cajun	-	NASA 10.336GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S360	2441142.32	1971 Jul 9 1943	Aerobee 170B	-	NASA 12.22GT	0.000	GSFC	SS	-	GSFC/Busse	Test	KPNO	-	-
1971-S362	2441145.13	1971 Jul 12 1506	Nike Cajun	-	NASA 10.370GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S363	2441145.14	1971 Jul 12 1518	Nike Cajun	-	NASA 10.381GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S364	2441145.17	1971 Jul 12 1606	Nike Cajun	-	NASA 10.374GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S365	2441145.62	1971 Jul 13 0250	Nike Tomahawk	-	NASA 18.117UI	0.000	GSFC	SS	-	UTD/Hanson	Ionos	WDCRF	-	-
1971-S366	2441146.27	1971 Jul 13 1830	Nike Tomahawk	-	NASA 18.118UI	0.000	GSFC	SS	-	UTD/Hanson	Ionos	WDCRF	-	-
1971-S678	2441149.65	1971 Jul 17 0330	Aerobee 170	-	-	0.000	USAF?	SS	-	AFCRL/?	Aeron?	FDC/Ulrich	-	-
1971-S369	2441149.70	1971 Jul 17 0453	Aerobee 170A	-	KP3.39	0.000	KPNO	SS	-	CORN/Harwit	IR Astron	KPNO	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S651	2441154.24	1971 Jul 21 1745	Nike Cajun	-	3-Sphere Ejection 6	0.000	USAF?	SS	-	AFCRL/?	Aeron	AD738848	-	-
1971-S374	2441160.05	1971 Jul 27 1318	Aerobee 170	-	NASA 13.52UA	0.000	GSFC	SS	-	UMI/Sharpe,Hansen	Aeronomy	KPNO	-	-
1971-S378	2441163.53	1971 Jul 31 0044:54	Nike Apache	-	NASA 14.468UA	0.000	GSFC	SS	-	DUD/MPIK/Hallgren	Aeronomy	WDCRF	SR13,1127	-
1971-S379	2441164.48	1971 Jul 31 2334:00	Nike Apache	-	NASA 14.469UA	0.000	GSFC	SS	-	DUD/MPIK/Hallgren	Aeronomy	WDCRF	SR13,1127	-
1971-S376	2441163.50	1971 Aug	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S385	2441172.01	1971 Aug 8 1211:46	Nike Cajun	-	Ferdinand 27	0.000	NTNF	SS	-	NDRE/Johannessen,Folk.	Test/Ionos/Plasma	AND/IJRadioSP3,128	Nature235,215	-
1971-S387	2441173.69	1971 Aug 10 0440	Aerobee 170	-	NASA 13.18DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron?	KPNO	-	-
1971-S388	2441173.73	1971 Aug 10 0530	Aerobee 170A	-	NASA 13.08GG	0.000	GSFC	SS	-	GSFC/Holt	XR Astron	KPNO	-	-
1971-S389	2441176.38	1971 Aug 12 2114	Aerobee 170	-	NASA 13.62DS	0.000	GSFC	SS	-	NRL/Brueckner,Tousey	Solar	KPNO	-	-
1971-S394	2441183.34	1971 Aug 19 2011	Nike Apache	-	NASA 14.491GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S398	2441183.81	1971 Aug 20 0730	Nike Cajun	-	NASA 10.390GM	0.000	GSFC	SS	-	ESSA/UMI/Henderson,Horv.	Aeronomy	WDCRF	-	-
1971-S399	2441183.82	1971 Aug 20 0745	Nike Apache	-	NASA 14.492GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1971-S400	2441183.89	1971 Aug 20 0919	Nike Apache	-	NASA 14.475UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1971-S401	2441183.91	1971 Aug 20 0944	Nike Apache	-	NASA 14.476UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1971-S402	2441183.93	1971 Aug 20 1014	Nike Apache	-	NASA 14.477UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1971-S404	2441184.33	1971 Aug 20 1956	Nike Cajun	-	NASA 10.389GM	0.000	GSFC	SS	-	ESSA/UMI/Henderson,Horv.	Aeronomy	WDCRF	-	-
1971-S405	2441185.61	1971 Aug 22 0234	Nike Apache	-	-	0.000	DMI	SS	-	DMI/CORN/Mikkelsen	Ionos	WDCRF	-	-
1971-S409	2441187.60	1971 Aug 24 0224	Nike Apache	-	-	0.000	DMI	SS	-	DMI/CORN/Mikkelsen	Ionos	WDCRF	-	-
1971-S414	2441194.50	1971 Sep	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S415	2441194.50	1971 Sep	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S430	2441196.83	1971 Sep 2 0758	Nike Apache	-	NASA 14.434GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	WDCRF	-	-
1971-S652	2441202.33	1971 Sep 7 2000	Nike Cajun	-	3-Sphere Ejection 7	0.000	USAF?	SS	-	AFCRL/?	Aeron	AD738848	-	-
1971-S435	2441202.50	1971 Sep 7 2357	Nike Apache	-	NASA 14.493CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1971-S449	2441210.91	1971 Sep 16 0956	Nike Apache	-	NASA 14.494CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1971-S451	2441214.41	1971 Sep 19 2156	Nike Cajun	-	NASA 10.348GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S454	2441214.65	1971 Sep 20 0330	Nike Cajun	-	NASA 10.349GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S455	2441214.76	1971 Sep 20 0615	Nike Cajun	-	NASA 10.354GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S457	2441214.90	1971 Sep 20 0930	Nike Cajun	-	NASA 10.352GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S458	2441215.11	1971 Sep 20 1445	Nike Cajun	-	NASA 10.350GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S459	2441215.29	1971 Sep 20 1900	Nike Cajun	-	NASA 10.353GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S460	2441215.50	1971 Sep 21 0005	Nike Cajun	-	NASA 10.355GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S461	2441215.70	1971 Sep 21 0450	Nike Cajun	-	NASA 10.356GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S462	2441215.88	1971 Sep 21 0914	Nike Cajun	-	NASA 10.357GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S463	2441215.85	1971 Sep 21 0830	Nike Iroquois	-	CRL A07.017-1	0.000	AFCRL	SS	-	AFCRL/Cohen	Aeron	AFCRL	-	-
1971-S464	2441216.08	1971 Sep 21 1400	Nike Cajun	-	NASA 10.358GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S465	2441216.28	1971 Sep 21 1840	Nike Cajun	-	NASA 10.359GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S466	2441216.49	1971 Sep 21 2340	Nike Cajun	-	NASA 10.360GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S467	2441216.66	1971 Sep 22 0350	Nike Cajun	-	NASA 10.351GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S653	2441217.19	1971 Sep 22 1630	Nike Cajun	-	3-Sphere Ejection 8	0.000	USAF?	SS	-	AFCRL/?	Aeron	AD738848	-	-
1971-S478	2441221.85	1971 Sep 27 0830	Nike Iroquois	-	CRL A07.914-1	0.000	AFCRL	SS	-	AFCRL/Cohen	Aeron	AFCRL	-	-
1971-S482	2441224.50	1971 Oct	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1971-S491	2441230.27	1971 Oct 5 1830	Nike Tomahawk	-	CRL A08.103-2	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1971-S493	2441230.52	1971 Oct 6 0032	Nike Iroquois	-	CRL A07.913-6A	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	AFCRL	-	-
1971-S494	2441230.52	1971 Oct 6 0033	Nike Iroquois	-	CRL A07.101-5	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	SR13,255	-
1971-S495	2441230.53	1971 Oct 6 0042	Nike Iroquois	-	CRL A07.102-4	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S496	2441230.54	1971 Oct 6 0103	Nike Iroquois	-	CRL A07.913-6	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S497	2441230.61	1971 Oct 6 0245	Nike Iroquois	-	CRL A07.101-6	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	-	-
1971-S499	2441231.00	1971 Oct 6 1200	Nike Iroquois	-	CRL A07.902-6	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S500	2441231.01	1971 Oct 6 1211	Nike Iroquois	-	CRL A07.101-3	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S502	2441231.03	1971 Oct 6 1244	Nike Iroquois	-	CRL A07.101-4	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S503	2441231.05	1971 Oct 6 1305	Nike Iroquois	-	CRL A07.101-2	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1971-S512	2441232.84	1971 Oct 8 0810	Aerobee 170	-	NRL NC4.253	0.000	NRL	SS	-	NRL/Troy,Holmes	UV Astron	KPNO/ApJ195,643	ApJ195,643	-
1971-S521	2441238.30	1971 Oct 13 1916	Nike Cajun	-	NASA 10.378GI	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	KPNO	JGR78,7567	-
1971-S522	2441238.31	1971 Oct 13 1928	Nike Cajun	-	NASA 10.379GI	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	KPNO	-	-
1971-S532	2441244.23	1971 Oct 19 1730	Aerobee 170A	-	NASA 13.113GT	0.000	GSFC	SS	-	MSFC/GSFC/Kraft	Microgravity	KPNO	JBIS	-
1971-S537	2441247.66	1971 Oct 23 0345:00	Aerobee 170A	-	NASA 13.63UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	KPNO	ApJ183,61	-
1971-S542	2441251.92	1971 Oct 27 1004	Aerobee 170	-	NASA 13.56GG	0.000	GSFC	SF	U	GSFC/Smith	UV Astron?	KPNO	-	-
1971-S543	2441253.92	1971 Oct 29 1009	Aerobee 170	-	CRL A04.004-5	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1971-S656	2441255.18	1971 Oct 30 1616:00	Nike Tomahawk	-	Sandia 152-133	0.000	SAND	SS	-	LASL/Benton	Plasma/Active	LA-4947	-	-
1971-S548	2441259.02	1971 Nov 3 1230	Aerobee 170	-	CRL A04.012-1	0.000	AFCRL	SS	-	AFCRL/Fenn,Toolin	Aeron	AFCRL	-	-
1971-S557	2441266.75	1971 Nov 11 0600	Aerobee 170	-	NRL NB4.244	0.000	NRL	SS	-	NRL/Fritz	XR Astron?	KPNO	-	-
1971-S562	2441272.73	1971 Nov 17 0533:54	Nike Tomahawk	-	NASA 18.103GA	0.000	CRA	SS	-	GSFC/Spencer	Aeronomy	CR-130123	WISR	-
1971-S565	2441275.81	1971 Nov 20 0721	Aerobee 170	-	NASA 13.57GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron?	KPNO	-	-
1971-S566	2441275.85	1971 Nov 20 0830	Aerobee 170	-	NASA 13.58GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	KPNO	-	-
1971-S570	2441279.76	1971 Nov 24 0615	Aerobee 170	-	CRL A04.116-3	0.000	AFSC	SS	-	AFCRL/Huffman	ABM Tech IR	AFCRL	VAFB	-
1971-S582	2441291.62	1971 Dec 6 0300	Nike Apache	-	NASA 14.495UM	0.000	GSFC	SF	U	UMI/GSFC/Horvath,Theon	Aeronomy	WDCRF	-	-
1971-S583	2441291.63	1971 Dec 6 0302	Nike Cajun	-	NASA 10.384GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S584	2441291.69	1971 Dec 6 0430	Nike Apache	-	NASA 14.496UM	0.000	GSFC	SS	-	UMI/GSFC/Horvath,Theon	Aeronomy	WDCRF	-	-
1971-S585	2441291.70	1971 Dec 6 0442	Nike Apache	-	NASA 14.497UM	0.000	GSFC	SS	-	UMI/GSFC/Horvath,Theon	Aeronomy	WDCRF	-	-
1971-S586	2441291.83	1971 Dec 6 0752	Nike Apache	-	NASA 14.498UM	0.000	GSFC	SS	-	UMI/GSFC/Horvath,Theon	Aeronomy	WDCRF	-	-
1971-S587	2441291.83	1971 Dec 6 0802	Nike Cajun	-	NASA 10.385GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1971-S588	2441291.95	1971 Dec 6 1041	Nike Cajun	-	NASA 10.392GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1971-S589	2441291.98	1971 Dec 6 1130	Nike Cajun	-	NASA 10.394GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1971-S601	2441296.12	1971 Dec 10 1446	Nike Iroquois	-	CRL A07.102-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR14,63	-
1971-S602	2441296.18	1971 Dec 10 1624	Nike Tomahawk	-	CRL A08.102-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1971-S603	2441296.25	1971 Dec 10 1800	Nike Iroquois	-	CRL A07.216-1	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	SR14,63	-
1972-S02	2441316.50	1972 Jan	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1972-S03	2441316.50	1972 Jan	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1972-S36	2441329.39	1972 Jan 12 2116:35	Nike Apache	-	NASA 14.383AE	0.000	GSFC	SS	-	NOAA/Evans	Plasma	WDCRF	AND	-
1972-S37	2441330.34	1972 Jan 13 2004:35	Nike Tomahawk	-	NASA 18.135IE	0.000	GSFC	SS	-	NDRE/Troim,Maehlum	Plasma	WDCRF	AND	-
1972-S43	2441334.59	1972 Jan 18 0207	Aerobee 170	-	CRL A04.004-6	0.000	AFCRL	SS	-	AFCRL/Walker,Stark	IR Astron	AFCRL	-	-
1972-A14	2441345.34	1972 Jan 28 2009	Nike Apache	-	NASA 14.419UA	0.000	GSFC	SF	U	UMN/Nier	Aeronomy	WDCRF	-	-
1972-S57	2441348.23	1972 Jan 31 1730	Nike Apache	-	NASA 14.440UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1972-S58	2441348.24	1972 Jan 31 1745	Nike Iroquois	-	CRL A07.217-1	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1972-S59	2441348.41	1972 Jan 31 2150	Nike Iroquois	-	CRL AT07.897	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1972-S56	2441347.50	1972 Feb	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S61	2441349.98	1972 Feb 2 1125:00	Nike Tomahawk	-	NASA 18.111UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	www.pfrr.alaska.edu	-	-
1972-S68	2441354.22	1972 Feb 6 1715	Nike Iroquois	-	CRL A07.001-1	0.000	AFCRL	SS	-	AFCRL/Narcisi	Aeron	AFCRL	-	-
1972-S69	2441355.48	1972 Feb 7 2333:34	Nike Tomahawk	-	NASA 18.131IA	0.000	GSFC/RTG	SS	-	RTG/Engstrom	Aeronomy	WDCRF	-	-
1972-S77	2441361.47	1972 Feb 13 2320:11	Nike Tomahawk	-	NASA 18.137IE	0.000	GSFC	SS	-	NDRE/Maehlum	Plasma	WDCRF	AND	-
1972-S80	2441362.68	1972 Feb 15 0421	Nike Apache	-	NASA 14.486UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1972-S85	2441366.72	1972 Feb 19 0512	Aerobee 170	-	NASA 13.082UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	-	-
1972-S91	2441372.81	1972 Feb 25 0723	Nike Tomahawk	-	NASA 18.112UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	WDCRF	-	-
1972-A20	2441377.28	1972 Feb 29 1845	Nike	-	-	0.000	LARCN	AS	-	LARC/Pierce	Test	FDC	SFLT15,392	-
1972-S102	2441383.72	1972 Mar 7 0516:00	Nike Tomahawk	-	NASA 18.141GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1972-S104	2441384.10	1972 Mar 7 1426:00	Nike Tomahawk	-	NASA 18.142GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1972-S108	2441386.00	1972 Mar 9 1200	Nike Tomahawk	-	NASA 18.73UE	0.000	GSFC	SS	-	UNH/Lockwood	Plasma	WDCRF	-	-
1972-S109	2441386.09	1972 Mar 9 1408:00	Nike Tomahawk	-	NASA 18.143GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1972-S110	2441390.17	1972 Mar 13 1600	Nike Apache	-	ISRC-PO-4	0.000	CRA	SS	-	CRA/Broglio	Aeron	WDCRF	Serra	-
1972-S112	2441391.17	1972 Mar 14 1558	Nike Apache	-	ISRC-PO-5	0.000	CRA	SS	-	CRA/Broglio	Aeron	WDCRF	Serra	-
1972-S113	2441392.17	1972 Mar 15 1600	Nike Apache	-	ISRC-PO-6	0.000	CRA	SS	-	CRA/Broglio	Aeron	WDCRF	Serra	-
1972-S118	2441393.15	1972 Mar 16 1543	Nike Apache	-	ISRC-PO-7	0.000	CRA	SS	-	CRA/Broglio	Aeron	WDCRF	Serra	-
1972-S132	2441398.07	1972 Mar 21 1335:02	Aerobee 170	-	KP3.38	0.000	KPNO	SS	-	CAL/Novick	XR Astron	ApJ183,L63	WDC	-
1972-A26	2441398.56	1972 Mar 22 0121:38	Nike Cajun	-	Ferdinand 28	0.000	NTNF	SF	U	MPE/NDRE/Arnold,Folk.	Test/Aeron/Ionos	AND	WDCRF	-
1972-S133	2441398.85	1972 Mar 22 0822	Nike Apache	-	ISRC-PO-9	0.000	CRA	SS	-	CRA/Broglio	Ionos	WDCRF	Serra	-
1972-S137	2441401.93	1972 Mar 25 1015	Nike Javelin	-	NRL (Unknown)	0.000	WFF	SS	-	NRL/Davis	Aeron	SP-4017	-	-
1972-S139	2441403.92	1972 Mar 27 1008	Nike Javelin	-	NRL (Unknown)	0.000	WFF	SS	-	NRL/Davis	Aeron	SP-4017	-	-
1972-S140	2441405.92	1972 Mar 29 1007	Nike Javelin	-	NRL (Unknown)	0.000	WFF	SS	-	NRL/Davis	Aeron	SP-4017	-	-
1972-S146	2441408.71	1972 Apr 1 0505	Aerobee 170	-	NASA 13.027CG	0.000	GSFC	SS	-	ASE/Gorenstein	XR Astron	ASE-3062	SP-4017	-
1972-S147	2441410.92	1972 Apr 3 1004	Nike Javelin	-	NRL (Unknown)	0.000	WFF	SS	-	NRL/Davis	Aeron	SP-4017	-	-
1972-S148	2441410.92	1972 Apr 3 1006	Nike Javelin	-	NRL (Unknown)	0.000	WFF	SS	-	NRL/Davis	Aeron	SP-4017	-	-
1972-S151	2441413.49	1972 Apr 5 2345	Nike Iroquois	-	CRL A07.921-3	0.000	AFCRL	SS	-	AFCRL/Vickery	Aeron	AFCRL	-	-
1972-S152	2441414.79	1972 Apr 7 0700	Nike Apache	-	NASA 14.412IP	0.000	GSFC	SS	-	PRL/Prakash	Ionos	WDCRF	SR14,173	-
1972-S155	2441418.53	1972 Apr 11 0038	Nike Iroquois	-	CRL A07.106-4	0.000	AFCRL	SS	-	AFCRL/Vickery	Aeron	WDCRF	AFCRL	-
1972-S157	2441420.53	1972 Apr 13 0043	Nike Iroquois	-	CRL A07.921-5	0.000	AFCRL	SS	-	AFCRL/Vickery	Aeron	SR14,81	AFCRL	-
1972-S159	2441420.58	1972 Apr 13 0200	Nike Iroquois	-	CRL A07.107-1	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	SR13,255	-
1972-S160	2441420.59	1972 Apr 13 0216	Nike Iroquois	-	CRL AT07.894	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	AFCRL	SR13,255	-
1972-S161	2441420.60	1972 Apr 13 0230	Nike Tomahawk	-	CRL A08.013-1	0.000	AFCRL	SS	-	AFCRL/Good	Aeron	AFCRL	-	-
1972-S162	2441420.61	1972 Apr 13 0245	Nike Iroquois	-	CRL A07.217-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1972-S163	2441420.71	1972 Apr 13 0500	Nike Iroquois	-	CRL A07.215-1	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR14,81	AFCRL	-
1972-S164	2441420.72	1972 Apr 13 0515	Nike Iroquois	-	CRL A07.921-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	SR14,81	AFCRL	-
1972-S165	2441420.87	1972 Apr 13 0850	Nike Iroquois	-	CRL A07.921-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1972-S166	2441420.94	1972 Apr 13 1030	Nike Iroquois	-	CRL A07.921-6	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	SR14,81	AFCRL	-
1972-S168	2441422.53	1972 Apr 15 0045	Nike Iroquois	-	CRL A07.106-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1972-S170	2441422.77	1972 Apr 15 0622	Aerobee 170	-	CRL A04.004-7	0.000	AFCRL	SS	-	AFCRL/Stark,Walker	IR Astron	AFCRL	-	-
1972-S179	2441432.37	1972 Apr 24 2057	Aerobee 170	-	NASA 13.15CS	0.000	GSFC	SS	-	LPARL/Catura	Solar X	KPNO	-	-
1972-S186	2441438.85	1972 May 1 0823	Nike Tomahawk	-	CRL A08.113-1	0.000	AFCRL	SS	-	AFCRL/Shuman	Plasma	AFCRL	-	-
1972-S187	2441438.85	1972 May 1 0824	Nike Tomahawk	-	CRL A08.112-1	0.000	AFCRL	SS	-	AFCRL/Shuman,Vancour	Plasma	AFCRL	-	-
1972-S193	2441449.94	1972 May 12 1030	Aerobee 170A	-	NASA 13.19DG	0.000	NRL/GSFC	SS	-	NRL/Carruthers	UV Astron	KPNO	-	-
1972-S198	2441454.82	1972 May 17 0740	Nike Cajun	-	NASA 10.397GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1972-S200	2441454.98	1972 May 17 1130	Nike Cajun	-	NASA 10.395GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1972-S201	2441455.04	1972 May 17 1300	Nike Cajun	-	NASA 10.393GM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1972-S202	2441455.20	1972 May 17 1645	Nike Cajun	-	NASA 10.398GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1972-S204	2441456.86	1972 May 19 0835	Aerobee 170	-	NASA 13.37UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	KPNO	-	-
1972-S205	2441456.92	1972 May 19 1000	Aerobee 170A	-	NASA 13.09GG	0.000	GSFC	SS	-	GSFC/Holt	XR Astron	KPNO	-	-
1972-S207	2441460.00	1972 May 22 1200	Nike Tomahawk	-	LEINAX II	0.000	SAND	SS	-	LEID/NAG/Bleeker,Ha	XR Astron	AAp48,235	ApJ190,L5	-
1972-S227	2441468.76	1972 May 31 0619:11	Nike Apache	-	NASA 14.485UI	0.000	GSFC/NTNF	SS	-	UMD/NDRE/Matthews	Ionos	AND	WDCRF	-
1972-S228	2441468.79	1972 May 31 0653:20	Nike Cajun	-	NASA 10.391UI	0.000	GSFC/NTNF	SS	-	UMD/NDRE/Matthews	Ionos	AND	WDCRF	-
1972-S213	2441468.50	1972 Jun	Nike Hydac	?	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron?	WSMR	-	-
1972-S231	2441470.76	1972 Jun 2 0616:00	Nike Tomahawk	12	Sandia 152-185	0.000	SAND	SS	-	LRL/Seward	XR Astron	FDS	LRL-ENN73-172	-
1972-S235	2441477.74	1972 Jun 9 0545	Aerobee 170A	-	NASA 13.59GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	KPNO	-	-
1972-S236	2441478.69	1972 Jun 10 0430	Nike Apache	-	NASA 14.415UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	KPNO	-	-
1972-S239	2441482.33	1972 Jun 13 2000	Aerobee 170	-	NASA 13.66US	0.000	GSFC	SS	-	CHIC/Blake	Solar X	KPNO	-	-
1972-A66	2441489.20	1972 Jun 20 1645	Aerobee 170	-	CRL A04.116-3	0.000	AFSC	SF	S2I	AFCRL/Huffman?	ABM Tech IR	AFCRL	-	-
1972-S250	2441496.33	1972 Jun 27 2000	Aerobee 170	-	NASA 13.05US	0.000	GSFC	SS	-	CAL/Wolff	Solar	KPNO	-	-
1972-S251	2441501.84	1972 Jul 3 0810	Nike Apache	-	NASA 14.483GI-II	0.000	GSFC	SS	-	GSFC/INTA/Aikin	Ionos	WDCRF	-	-
1972-S255	2441504.84	1972 Jul 6 0810	Nike Cajun	-	NASA 10.408GI	0.000	GSFC	SS	-	GSFC/INTA/Aikin	Ionos	WDCRF	-	-
1972-S265	2441509.42	1972 Jul 10 2201	Aerobee 170	-	NASA 13.80DS	0.000	GSFC	SS	-	NRL/Koomen	Solar	KPNO	-	-
1972-S266	2441509.42	1972 Jul 10 2205	Aerobee 170A	-	NASA 13.28CS	0.000	GSFC	SS	-	ASE/Davis	Solar	KPNO	-	-
1972-S269	2441512.75	1972 Jul 14 0601	Aerobee 170	-	NASA 13.04UG	0.000	GSFC	SS	-	UCO/Lillie	UV Astron	KPNO	-	-
1972-S271	2441516.85	1972 Jul 18 0820	Aerobee 170A	-	KP3.40	0.000	KPNO	SS	-	CORN/Harwit	IR Astron	KPNO	KPNO	-
1972-S273	2441526.26	1972 Jul 27 1810	Aerobee 170	-	NASA 13.31US	0.000	GSFC	SS	-	HCO/Parkinson	Solar	KPNO	-	-
1972-S278	2441534.30	1972 Aug 4 1916	Nike Apache	-	NASA 14.489GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	WDCRF	-	-
1972-A85	2441534.73	1972 Aug 5 0526	Nike Apache	-	NASA 14.490GM	0.000	GSFC	SF	U	GSFC/Bertch	Plasma	WDCRF	-	-
1972-S279	2441534.74	1972 Aug 5 0552	Aerobee 170	-	NASA 13.30CG	0.000	GSFC	SS	-	ASE/Kellogg	XR Astron	KPNO	-	-
1972-S282	2441539.74	1972 Aug 10 0545	Aerobee 170	-	NASA 13.38UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	KPNO	-	-
1972-S283	2441539.79	1972 Aug 10 0659	Aerobee 170	-	NASA 13.23UG	0.000	GSFC	SS	-	UWI/Bless	UV Astron?	KPNO	-	-
1972-S345	2441542.79	1972 Aug 13 0659	Nike Apache	-	ISRO 10.44	0.000	ISRO	SS	-	PRL/Prakash?	Ionos	ASR5,7,35	-	-
1972-S292	2441547.93	1972 Aug 18 1021	Aerobee 170	-	CRL A04.004-8	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1972-S293	2441553.38	1972 Aug 23 2100	Aerobee 170	-	CRL A04.104-1	0.000	AFCRL	SS	-	AFCRL/Heroux	Solar XUV	AFCRL	-	-
1972-S302	2441561.67	1972 Sep 1 0410	Aerobee 170A	-	NASA 13.47UL	0.000	GSFC	SS	-	JHU/Moos	UV Astron	KPNO	ApJ205,848	-
1972-S307	2441576.67	1972 Sep 16 0400	Aerobee 170	-	NASA 13.39UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	KPNO	-	-
1972-S333	2441599.17	1972 Oct 8 1610	Nike Apache	-	NASA 14.499UA	0.000	GSFC	SS	-	SSC/DUD/Hemenway,Li.	Meteorites	WDCRF	-	-
1972-S335	2441600.15	1972 Oct 9 1530	Nike Apache	-	NASA 14.501UA	0.000	GSFC	SS	-	SSC/DUD/Hemenway	Meteorites	WDCRF	-	-
1972-S341	2441601.98	1972 Oct 11 1131	Aerobee 170	-	CRL A04.116-4	0.000	AFCRL	SS	-	AFCRL/Huffman	ABM Tech IR	AFCRL/Wire	-	-
1972-S343	2441603.15	1972 Oct 12 1533:30	Nike Apache	-	NASA 14.502UA	0.000	GSFC	SS	-	SSC/DUD/Hemenway	Meteorites	WDCRF	-	-
1972-A107	2441603.65	1972 Oct 13 0339	Nike Apache	-	NASA 14.506CA	0.000	GSFC	SF	U	GCA/Bedinger	Aeronomy	WWW-PFRR	SP-4017	-
1972-S346	2441604.13	1972 Oct 13 1511	Nike Apache	-	NASA 14.504CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	AnnalesGeo32,13	-
1972-S347	2441604.19	1972 Oct 13 1639	Nike Apache	-	NASA 14.505CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	AnnalesGeo32,13	-
1972-S357	2441612.05	1972 Oct 21 1316:13	Nike Tomahawk	-	NASA 18.151UE	0.000	GSFC	SS	-	UMN/Cahill	Plasma	WWW-PFRR	-	-
1972-S372	2441621.24	1972 Oct 30 1745	Aerobee 170	-	NASA 13.67US	0.000	GSFC	SS	-	CHIC/Blake	Solar X	KPNO	-	-
1972-S375	2441622.48	1972 Oct 31 2332	Nike Iroquois	-	CRL A07.106-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S376	2441622.49	1972 Oct 31 2351	Nike Iroquois	-	CRL A07.105-6	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1972-S377	2441622.54	1972 Nov 1 0104	Nike Iroquois	-	CRL A07.105-5	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1972-S378	2441622.56	1972 Nov 1 0130	Nike Iroquois	-	CRL A07.105-4	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1972-S380	2441622.71	1972 Nov 1 0503	Nike Apache	-	NASA 14.439UI	0.000	GSFC	SS	-	UIUC/Smith	Ionos	WDCRF	AeronRpt78	-
1972-S381	2441622.73	1972 Nov 1 0530	Aerobee 170	-	NRL NB4.257	0.000	NRL	SS	-	NRL/Naranan,Fritz	XR Astron	ApJ208,718	KPNO	-
1972-S382	2441622.90	1972 Nov 1 0933	Nike Iroquois	-	CRL A07.216-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1972-S392	2441625.59	1972 Nov 4 0215	Nike Apache	-	NASA 14.487UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	KPNO	-	-
1972-M11	2441627.49	1972 Nov 5 2345	Nike Tomahawk	-	CRL A08.105-10	0.000	AFCRL	SS	-	AFCRL/Good	Aeron	AFCRL	-	-
1972-S394	2441627.50	1972 Nov 6 0004	Nike Tomahawk	-	CRL A08.215-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1972-S395	2441629.85	1972 Nov 8 0830	Aerobee 170	-	NASA 13.86GG	0.000	GSFC	SS	-	GSFC/Heap	UV Astron	KPNO	ApJ217,90	-
1972-S398	2441636.28	1972 Nov 14 1848	Aerobee 170	-	NASA 13.02GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar	KPNO	-	-
1972-S401	2441642.21	1972 Nov 20 1707	Aerobee 200A	-	NASA 26.13GT	0.000	GSFC	SS	-	GSFC/Kraft,Windsor	Test	KPNO	-	-
1972-S405	2441649.50	1972 Nov 28	Nike Apache	-	-	0.000	CRA	SS	-	CRA/	Ionos/Aeron?	Serra	-	-
1972-S408	2441651.50	1972 Dec	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1972-S414	2441656.68	1972 Dec 5 0420	Aerobee 170	-	CRL A04.004-9	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	KPNO	AFCRL	-
1972-S416	2441657.23	1972 Dec 5 1730	Nike Apache	-	NASA 14.509UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	SP-4017	-
1972-S419	2441658.80	1972 Dec 7 0707	Nike Iroquois	-	CRL A07.307-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1972-S422	2441659.77	1972 Dec 8 0626	Aerobee 170	-	NASA 13.083UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	KPNO	-	-
1972-S428	2441662.56	1972 Dec 11 0130	Nike Iroquois	-	CRL A07.107-3	0.000	AFCRL	SS	-	AFCRL/Philbrick	Aeron	FC	AFCRL	-
1972-S429	2441662.57	1972 Dec 11 0139	Nike Iroquois	-	CRL A07.301-1	0.000	AFCRL	SS	-	AFCRL/Howard,Faire	Aeron	FC	AFCRL	-
1972-S430	2441663.40	1972 Dec 11 2138	Aerobee 170A	-	NASA 13.96UA	0.000	GSFC	SS	-	JHU/Fastie	Aeronomy	KPNO	JGR82.5011	-
1972-S435	2441665.38	1972 Dec 13 2103	Aerobee 170	-	NASA 13.94US	0.000	GSFC	SS	-	UCO/Rense	Solar	KPNO	-	-
1973-S14	2441694.99	1973 Jan 12 1146	Aerobee 170B	?	KP3.42	0.000	KPNO	SS	-	UCB/Bowyer	XR Astronomy	WDC	ApJ197,25	-
1973-S17	2441699.23	1973 Jan 16 1730	Nike Apache	-	NASA 14.510UI	0.000	GSFC	SS	-	UIUC/Smith	Ionos	WDCRF	-	-
1973-S18	2441699.37	1973 Jan 16 2058:51	Nike Tomahawk	-	NASA 18.57IE	0.000	GSFC	SS	-	NOAA/Evans	Plasma	WDCRF	AND	-
1973-S19	2441701.25	1973 Jan 18 1755	Aerobee 200A	-	NASA 26.01CS	0.000	GSFC	SS	-	LPARL/Acton	Solar X	WDCRF	-	-
1973-S35	2441710.27	1973 Jan 27 1831:55	Nike Tomahawk	-	NASA 18.138IE	0.000	GSFC	SS	-	NDRE/Landmark	Plasma	WDCRF	AND	-
1973-S41	2441713.50	1973 Feb	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S42	2441713.50	1973 Feb	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S43	2441713.50	1973 Feb	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S60	2441719.94	1973 Feb 6 1035	Nike Tomahawk	-	Sandia 152-199	0.000	SAND	SS	-	LASL/Theobald	Auroral	WWW-PFRR	-	-
1973-S61	2441720.33	1973 Feb 6 1959:03	Nike Tomahawk	-	NASA 18.136IE	0.000	GSFC	SS	-	NDRE/Troim,Folkestad	Plasma	AND	WDCRF	-
1973-S64	2441722.54	1973 Feb 9 0054:02	Nike Tomahawk	-	NASA 18.132IA	0.000	SSC	SS	-	KGO/KTH/	Auroral	WDCRF	-	-
1973-S91	2441742.79	1973 Mar 1 0657	Nike Apache	-	NASA 14.503UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1973-S93	2441744.78	1973 Mar 3 0650	Nike Apache	-	ISRO 10.45	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	SR18,281	-
1973-S94	2441746.50	1973 Mar 5	Nike Apache	-	NASA 14.444UI	0.000	GSFC	SS	-	UTD/Heikkila	Ionos	WISR	-	-
1973-S95	2441747.23	1973 Mar 5 1725	Aerobee 170	-	NASA 13.32US	0.000	GSFC	SS	-	HCO/Parkinson	Solar	WDCRF	-	-
1973-S99	2441750.25	1973 Mar 8 1800	Aerobee 170	-	NASA 13.29CS	0.000	GSFC	SS	-	ASE/Vaiana	Solar	WDCRF	-	-
1973-S106	2441757.94	1973 Mar 16 1040	Nike Tomahawk	-	NASA 18.152UE	0.000	GSFC	SS	-	UMN/Cahill	Plasma	WDCRF	JGR83A2-586	-
1973-S113	2441762.75	1973 Mar 21 0600	Nike Tomahawk	-	NASA 18.144GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1973-S114	2441763.75	1973 Mar 22 0602	Nike Tomahawk	-	NASA 18.145GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1973-S118	2441765.65	1973 Mar 24 0335	Aerobee 170A	-	NASA 13.64UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	ApJ212,427	-
1973-S123	2441769.04	1973 Mar 27 1258	Nike Tomahawk	-	NASA 18.146GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1973-S128	2441771.95	1973 Mar 30 1043	Aerobee 170A	-	NASA 13.40UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	ApJ186,L115	-
1973-S129	2441772.02	1973 Mar 30 1234	Nike Tomahawk	-	NASA 18.147GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1973-S133	2441773.02	1973 Mar 31 1227	Nike Tomahawk	-	NASA 18.148GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1973-S130	2441772.50	1973 Apr	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S131	2441772.50	1973 Apr	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S147	2441782.79	1973 Apr 10 0659	Aerobee 170	-	NASA 13.91DG	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	ApJ199,L101	-
1973-S174	2441827.74	1973 May 25 0550	Aerobee 170	-	NASA 13.75UG	0.000	GSFC	SS	-	PRIN/Morton	UV Astron?	WDCRF	-	-
1973-S179	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S180	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S181	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S182	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S183	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S184	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S185	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S186	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S187	2441833.50	1973 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S193	2441836.20	1973 Jun 2 1651	Aerobee 170A	-	NASA 13.97CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1973-S198	2441845.27	1973 Jun 11 1830	Aerobee 200A	-	NASA 26.02CS	0.000	GSFC	SS	-	LPARL/Catura	Solar	WDCRF	SP-4018	-
1973-S220	2441863.94	1973 Jun 30 1033	Aerobee 170B	?	KP3.41	0.000	KPNO	SS	-	KPNO/CULH/Gabriel	Solar UV/Eclipse	WDC	Massey	-
1973-S221	2441864.05	1973 Jun 30 1307	Nike Tomahawk	-	-	0.000	CRA	SS	-	CRA/	Solar EUV	Serra	-	-
1973-M11	2441864.36	1973 Jun 30 2033	Nike Apache	-	NASA 14.519GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	-	-
1973-S222	2441864.34	1973 Jun 30 2012	Nike Cajun	-	NASA 10.412GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Ionos	WDCRF	-	-
1973-S214	2441863.50	1973 Jul	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S225	2441865.82	1973 Jul 2 0745	Aerobee 170	-	NASA 13.87UG	0.000	GSFC	SS	-	CAL/Weisskopf	XR Astron	WDCRF	-	-
1973-S237	2441881.14	1973 Jul 17 1522	Nike Cajun	-	NASA 10.416GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1973-S238	2441881.20	1973 Jul 17 1641	Nike Cajun	-	NASA 10.417GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1973-S240	2441881.68	1973 Jul 18 0417	Nike Cajun	-	NASA 10.418GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1973-S241	2441881.75	1973 Jul 18 0600	Nike Cajun	-	NASA 10.419GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1973-S248	2441889.16	1973 Jul 25 1545	Aerobee 200A	-	NASA 26.04GP	0.000	GSFC	SS	-	GSFC/McIntosh	Test	WDCRF	-	-
1973-A38	2441889.22	1973 Jul 25 1720	Aerobee 200A	-	NASA 26.113GT	0.000	GSFC	SS	-	GSFC/Kraft	Test	WDCRF	-	-
1973-S250	2441891.55	1973 Jul 28 0106	Nike Tomahawk	-	NASA 18.153UA	0.000	GSFC	SS	-	UCO/Rense,Barth	Aeronomy	WDCRF	-	-
1973-S262	2441896.43	1973 Aug 1 2217:50	Nike Apache	-	NASA 14.515UA	0.000	GSFC	SS	-	MISU/DUD/Witt,Hemenway	Aeronomy	WDCRF	-	-
1973-S263	2441896.45	1973 Aug 1 2248:39	Nike Apache	-	NASA 14.516UA	0.000	GSFC	SS	-	MISU/DUD/Witt,Hemenway	Aeronomy	WDCRF	-	-
1973-S265	2441896.73	1973 Aug 2 0535:45	Nike Cajun	-	NASA 10.414GM	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Aeronomy	WDCRF	-	-
1973-S266	2441898.17	1973 Aug 3 1600	Nike Apache	-	NASA 14.513UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1973-S268	2441900.49	1973 Aug 5 2342:36	Nike Apache	-	NASA 14.507GI	0.000	GSFC	SS	-	GSFC/Aikin,Goldberg	Aeronomy	WDCRF	-	-
1973-S269	2441900.51	1973 Aug 6 0008:25	Nike Apache	-	NASA 14.517UA	0.000	GSFC	SS	-	MISU/DUD/Witt,Hemenway	Aeronomy	WDCRF	-	-
1973-S275	2441905.13	1973 Aug 10 1505	Nike Apache	-	NASA 14.514UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	WDCRF	-	-
1973-S278	2441909.74	1973 Aug 15 0545	Nike Apache	-	NASA 14.512UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1973-S284	2441917.66	1973 Aug 23 0345	Aerobee 200A	-	NASA 26.08GG	0.000	GSFC	SS	-	GSFC/West	UV Astron	WDCRF	-	-
1973-S289	2441925.50	1973 Sep	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S303	2441939.40	1973 Sep 13 2130	Aerobee 170	-	NASA 13.69GS	0.000	GSFC	SS	-	GSFC/Russo,Maran,Neupert	Solar EUV	WDCRF	-	-
1973-S312	2441947.21	1973 Sep 21 1700	Aerobee 200A	-	NASA 26.20GS	0.000	GSFC	SS	-	GSFC/Behring	Solar EUV	WDCRF	ApJ203,521	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-S317	2441952.17	1973 Sep 26 1600	Nike Iroquois	-	CRL A07.306-2	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR16,393	AFCRL	-
1973-S319	2441952.69	1973 Sep 27 0427	Nike Iroquois	-	CRL A07.306-3	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1973-S323	2441955.50	1973 Oct	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1973-S324	2441955.50	1973 Oct	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S325	2441955.50	1973 Oct	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S326	2441955.50	1973 Oct	Nike Apache	?	Capache	0.000	NSWCWS	MU	-	NSWCWS/	Target?	WSMR	-	-
1973-S451	2441959.51	1973 Oct 4 0010	Nike Cajun	-	AFCRL 73-1	0.000	AFCRL	SS	-	AFCRL/	Aeron	WSMR	-	-
1973-S452	2441959.54	1973 Oct 4 0054	Nike Apache	-	AFCRL 71-B2	0.000	AFCRL	SS	-	AFCRL/	Aeron	WSMR	-	-
1973-S341	2441959.65	1973 Oct 4 0340	Aerobee 170A	-	NASA 13.10GG	0.000	GSFC	SS	-	GSFC/Holt	XR Astron	WDCRF	SP-361/p63	-
1973-S354	2441974.49	1973 Oct 18 2345	Nike Iroquois	-	CRL A07.105-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S355	2441974.50	1973 Oct 19 0000	Nike Tomahawk	-	CRL A08.105-11	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S357	2441974.53	1973 Oct 19 0050	Nike Iroquois	-	CRL A07.105-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S358	2441974.98	1973 Oct 19 1125	Nike Tomahawk	-	CRL A08.005-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S361	2441975.50	1973 Oct 19 2353	Nike Tomahawk	-	CRL A08.105-12	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	JATP41,169	-
1973-S362	2441976.49	1973 Oct 20 2343	Nike Iroquois	-	CRL A07.105-3	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron	AFCRL	-	-
1973-S366	2441979.84	1973 Oct 24 0815	Aerobee 200A	-	NASA 26.06UG	0.000	GSFC	SS	-	JHU/Moos	UV Astron	WDCRF	-	-
1973-S377	2441988.15	1973 Nov 1 1530	Aerobee 170	-	NASA 13.103UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1973-S378	2441988.23	1973 Nov 1 1730	Aerobee 170	-	NASA 13.65UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	ApJ212,427	-
1973-S380	2441989.19	1973 Nov 2 1630	Aerobee 170	-	CRL A04.104-2	0.000	AFCRL	SS	-	AFCRL/Heroux	Solar EUV	AFCRL	-	-
1973-S383	2441993.15	1973 Nov 6 1540	Aerobee 170	-	NASA 13.104UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1973-S384	2441996.22	1973 Nov 9 1715	Aerobee 170	-	NASA 13.106UG	0.000	GSFC	SS	-	CIT/Garmire	XR Astron	WDCRF	ApJ212,427	-
1973-S385	2441996.25	1973 Nov 9 1800	Aerobee 170	-	NASA 13.105UG	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1973-S387	2441999.08	1973 Nov 12 1400	Aerobee 170	-	NASA 13.102UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1973-S388	2441999.12	1973 Nov 12 1450	Aerobee 170	-	NASA 13.100DS	0.000	GSFC	SS	-	NRL/Fritz	Solar	WDCRF	-	-
1973-S405	2442009.50	1973 Nov 23	Aerobee 200A	-	NASA 26.09US	0.000	GSFC	SS	-	UHI/Jefferies	Solar	WISR	-	-
1973-S443	2442036.42	1973 Dec 19 2205	Aerobee 200A	-	NASA 26.03CS	0.000	GSFC	SS	-	LPARL/Catura	Solar	WDCRF	-	-
1974-S51	2442052.57	1974 Jan 5 0145	Aerobee 200A	-	NASA 26.23UG-UP	0.000	GSFC	SS	-	JHU/Fastie	Opt/UV Astron	AAp61,635	-	-
1974-S52	2442055.57	1974 Jan 8 0140	Aerobee 200A	-	NASA 26.22DG-DP	0.000	GSFC	SS	-	NRL/Opal	Aeron/EUV Astron	WDCRF	-	-
1974-S57	2442060.59	1974 Jan 13 0210	Aerobee 200A	-	NASA 26.24UG-UP	0.000	GSFC	SF	U	UCO/Barth	Aeron	WDCRF	SP-4019	-
1974-S60	2442063.50	1974 Jan 16	Aerobee 200A	-	NASA 26.14CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WISR	-	-
1974-S63	2442064.24	1974 Jan 16 1740	Nike Apache	-	NASA 14.511UA	0.000	GSFC	SS	-	UIUC/Smith	Aeronomy	WDCRF	-	-
1974-S64	2442064.61	1974 Jan 17 0237	Nike Tomahawk	-	NASA 18.160GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1974-S68	2442068.61	1974 Jan 21 0239	Nike Tomahawk	-	NASA 18.161GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1974-S71	2442069.61	1974 Jan 22 0241	Nike Tomahawk	-	NASA 18.162GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1974-S73	2442070.20	1974 Jan 22 1645	Aerobee 200A	-	NASA 26.07CS	0.000	GSFC	SS	-	AERO/Walker	Solar EUV/X	WDCRF	-	-
1974-S80	2442075.30	1974 Jan 27 1908:46	Nike Tomahawk	-	NASA 18.139IE	0.000	GSFC/NDRE	SS	-	NDRE/GSFC/Folk.,Maynard	Auroral	WDCRF	AND	-
1974-S95	2442087.59	1974 Feb 9 0210	Aerobee 200A	-	NASA 26.21UG	0.000	GSFC	SS	-	CAL/Wolff,Novick	XR Astron	WDCRF	-	-
1974-S97	2442090.67	1974 Feb 12 0400	Aerobee 200A	-	NASA 26.31UG	0.000	GSFC	SS	-	UCO/Lillie	UV Astron	WDCRF	-	-
1974-S103	2442094.86	1974 Feb 16 0833	Aerobee 350	-	CRL A35.191-2	0.000	AFCRL	SF	U	AFCRL/Walker	IR Astron	AFCRL	-	-
1974-S106	2442097.82	1974 Feb 19 0743	Nike Hydac	-	NH74-1	0.000	AFCRL/DNA	SS	-	AFCRL/Champion	Aeron	WWW-PFRR	-	-
1974-S108	2442099.25	1974 Feb 20 1807:00	Nike Tomahawk	-	NASA 18.134IE	0.000	SSC	SS	-	KTH/KGO/GSFC/	Auroral	WDCRF	-	-
1974-S110	2442099.30	1974 Feb 20 1907:00	Nike Tomahawk	-	NASA 18.133IE	0.000	SSC	SS	-	KTH/KGO/GSFC/	Auroral	WDCRF	-	-
1974-S115	2442100.77	1974 Feb 22 0631	Nike Apache	-	NASA 14.526UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1974-A11	2442107.65	1974 Mar 1 0334	Nike Apache	-	NASA 14.527UA	0.000	GSFC	SF	U	PITT/Zipf	Aeronomy	WDCRF	SP-4019	-
1974-S124	2442108.73	1974 Mar 2 0527	Nike Apache	-	NASA 14.528UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	FC	WDCRF	-
1974-S126	2442112.48	1974 Mar 5 2336	Nike Apache	-	NASA 14.518GA	0.000	GSFC	SS	-	GSFC/Mentall	Aeronomy	FC	WDCRF	-
1974-S129	2442120.89	1974 Mar 14 0920:09	Nike Tomahawk	-	NASA 18.158IE	0.000	GSFC	SS	-	RICE/Cloutier	Auroral	PFlat	PFRR	-
1974-S136	2442122.65	1974 Mar 16 0335	Aerobee 200A	-	NASA 26.11GG	0.000	GSFC	SS	-	GSFC/Evans	UV Astron?	WDCRF	-	-
1974-S138	2442123.08	1974 Mar 16 1348	Nike Tomahawk	-	Acanta Contiga	0.000	SAND	SS	-	LASL/SHEF/	Aeronomy	WWW-PFRR	-	-
1974-S142	2442127.68	1974 Mar 21 0413	Aerobee 200A	-	NASA 26.29UE	0.000	GSFC	SS	-	UMI/Sharp,Hayes	Plasma	WDCRF	-	-
1974-S143	2442127.78	1974 Mar 21 0645	Nike Cajun	-	NASA 10.411GM	0.000	GSFC	SS	-	GSFC/MISU/Hilsenr,Grahn	Aeronomy	WDCRF	-	-
1974-S144	2442127.90	1974 Mar 21 0931	Nike Cajun	-	NASA 10.420GM	0.000	GSFC	SS	-	GSFC/MISU/Hilsenr,Grahn	Aeronomy	WDCRF	-	-
1974-S146	2442128.78	1974 Mar 22 0645	Nike Cajun	-	NASA 10.421GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1974-S147	2442128.90	1974 Mar 22 0931	Nike Cajun	-	NASA 10.422GM	0.000	GSFC	SS	-	GSFC/Theon	Aeronomy	WDCRF	-	-
1974-S167	2442143.67	1974 Apr 6 0410	Aerobee 350	-	NASA 17.12CG	0.000	GSFC	SS	-	LPARL/Catura	XR Astron	WDCRF	ApJ207,L163	-
1974-S169	2442148.83	1974 Apr 11 0800	Nike Javelin	-	NJ-74-1	0.000	AFCRL/DNA	SS	-	LASL/UAF/	Auroral	WWW-PFRR	-	-
1974-S177	2442156.69	1974 Apr 19 0430	Nike Apache	-	NASA 14.520UI	0.000	GSFC	SS	-	UIUC/Bowhill	Ionos	AeronRpt78	SR17,427	-
1974-S178	2442160.25	1974 Apr 22 1802	Aerobee 170	-	CRL A04.208-2	0.000	AFGL	SS	-	AFCRL/Heroux	Aeron/Solar EUV?	AFCRL	-	-
1974-S184	2442167.50	1974 May	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1974-S194	2442182.28	1974 May 14 1843	Nike Malemute	-	NASA 28.01GT	0.000	GSFC	SS	-	GSFC/Bolster	Test	FDC	SRctCon2	-
1974-S195	2442183.40	1974 May 15 2137	Nike Apache	-	NASA 14.482UI	0.000	GSFC	SS	-	PSU/Kendall	Aeron/Ionos	WDCRF	-	-
1974-S196	2442183.42	1974 May 15 2211	Aerobee 200A	-	NASA 26.18US	0.000	GSFC	SS	-	HCO/Parkinson	Solar	WDCRF	-	-
1974-S207	2442198.50	1974 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1974-S220	2442216.50	1974 Jun 18	Nike Hydac	-	DASA HARSES	0.000	DASA	SS	-	DASA/	Aeron?	www.wsmr-history.org	-	-
1974-S224	2442218.21	1974 Jun 19 1700	Aerobee 200A	-	NASA 26.36US	0.000	GSFC	SS	-	UHI/Jefferies	Solar	WDCRF	-	-
1974-S231	2442220.81	1974 Jun 22 0730	Aerobee 200A	-	NASA 26.26GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron?	WDCRF	-	-
1974-S234	2442226.28	1974 Jun 27 1845	Aerobee 200A	-	NASA 26.15CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1974-S236	2442227.55	1974 Jun 29 0110	Nike Iroquois	-	CRL A07.105-7	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Release	AFCRL	-	-
1974-S238	2442228.32	1974 Jun 29 1945	Aerobee 170	-	CRL A04.208-1	0.000	AFCRL	SS	-	AFCRL/Hall,Heroux	Aeron	AFCRL	SFLTJan75,26	-
1974-S241	2442228.36	1974 Jun 29 2033	Nike Tomahawk	-	CRL A08.306-4	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1974-S242	2442228.38	1974 Jun 29 2105	Nike Tomahawk	-	CRL A08.207-2	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	-	-
1974-S244	2442228.51	1974 Jun 30 0010	Nike Cajun	-	E2-7313	0.000	DNA?	SU	-	WSMR/Randhawa	Aeron/EUV Astron	FDC	WDCRF	-
1974-S247	2442228.60	1974 Jun 30 0220	Nike Apache	-	NASA 14.521UI	0.000	GSFC	SS	-	UIUC/Smith	Ionos	WDCRF	-	-
1974-S249	2442228.69	1974 Jun 30 0440	Nike Apache	-	NASA 14.522UI	0.000	GSFC	SS	-	UIUC/Smith	Ionos	WDCRF	SR17,427	-
1974-S250	2442228.73	1974 Jun 30 0530	Nike Apache	-	NASA 14.529UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1974-S252	2442228.80	1974 Jun 30 0710	Nike Tomahawk	-	CRL A08.207-1	0.000	AFCRL	SS	-	AFCRL/Golomb	Aeron	AFCRL	-	-
1974-S256	2442228.88	1974 Jun 30 0900	Nike Apache	-	NASA 14.508UA	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1974-S257	2442228.89	1974 Jun 30 0915	Nike Apache	-	NASA 14.523UI	0.000	GSFC	SS	-	UIUC/Smith	Ionos	WDCRF	-	-
1974-S262	2442231.01	1974 Jul 2 1216	Nike Tomahawk	-	NASA 18.156IE-UE	0.000	GSFC	SS	-	DMI/Jorgensen	Plasma	WDCRF	GRL2,345	-
1974-S264	2442232.52	1974 Jul 4 0030	Nike Apache	-	NASA 14.433GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	FC	WDCRF	-
1974-S265	2442234.15	1974 Jul 5 1532	Nike Apache	-	NASA 14.488GE	0.000	GSFC	SS	-	GSFC/Bertch	Plasma	FC	WDCRF	-
1974-S266	2442237.14	1974 Jul 8 1519	Nike Tomahawk	-	NASA 18.157IE-UE	0.000	GSFC	SS	-	DMI/Jorgensen	Plasma	GRL3,339	WISR	-
1974-S272	2442247.50	1974 Jul 19	Nike Hydac	-	-	0.000	SAMSO	SS	-	SAMSO/	Tech	SAMSO	-	-
1974-S273	2442248.76	1974 Jul 20 0610	Aerobee 170	-	NASA 13.084UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1974-S279	2442274.26	1974 Aug 14 1808	Nike Apache	-	NASA 14.417UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy	WDCRF	-	-
1974-S282	2442277.87	1974 Aug 18 0859:36	Nike Cajun	-	-	0.000	NTNF	SS	-	MPE/NDRE/Krankowsky	Ionospheric	WDC	ESRO74	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S292	2442294.93	1974 Sep 4 1024	Aerobee 200	-	CRL A05.391-1	0.000	AFCRL	SS	-	AFCRL/Price,Walker	IR Astron	AFCRL	-	-
1974-S294	2442297.69	1974 Sep 7 0435	Aerobee 200A	-	NASA 26.25DG	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	ApJ222,L13	-	-
1974-S298	2442302.45	1974 Sep 11 2255	Aerobee 200	-	CRL A05.391-2	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1974-S304	2442308.15	1974 Sep 17 1533	Aerobee 200	-	CRL A05.391-3	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1974-S305	2442309.24	1974 Sep 18 1743	Aerobee 170	-	NASA 13.35US	0.000	GSFC	SS	-	HCO/Parkinson	Solar	WDCRF	-	-
1974-S325	2442315.26	1974 Sep 24 1820	Nike Malemute	-	NASA 28.002GT	0.000	GSFC	SS	-	GSFC/Bolster	Test	FDC	SRctCon2	-
1974-S335	2442323.72	1974 Oct 3 0510	Aerobee 200A	-	NASA 26.37GG	0.000	GSFC	SS	-	GSFC/Boldt	XR Astron	WDCRF	-	-
1974-S357	2442337.93	1974 Oct 17 1020	Nike Hydac	-	EX 407.41-1	0.000	AFGL	SS	-	AFCRL/O'Neil	Aeron	AFCRL	-	-
1974-S358	2442340.17	1974 Oct 19 1600	Aerobee 200A	-	NASA 26.16AS	0.000	GSFC	SS	-	LASL/Blake	Solar	WDCRF	-	-
1974-S373	2442355.00	1974 Nov 3 1157:53	Aerobee 170	-	NASA 13.107UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	ApJ202,L15	-	-
1974-S379	2442367.91	1974 Nov 16 0949	Aerobee 170A	-	NASA 13.92DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	SP-4019	-
1974-S380	2442367.94	1974 Nov 16 1035	Aerobee 170A	-	NASA 13.34UG	0.000	GSFC	SS	-	MIT/Rappaport	XR Astron	WDCRF	SP-4019	-
1974-S387	2442376.81	1974 Nov 25 0722	Nike Tomahawk	-	NASA 18.154UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1974-S389	2442376.89	1974 Nov 25 0915	Aerobee 200A	-	NASA 26.42UG	0.000	GSFC	SS	-	UWI/Bless	UV Astron?	WDCRF	-	-
1974-S391	2442379.25	1974 Nov 27 1800	Aerobee 200A	-	NASA 26.41US	0.000	GSFC	SS	-	USCLA/Judge	Solar	WDCRF	-	-
1974-S401	2442388.35	1974 Dec 6 2020	Nike Tomahawk	-	NASA 18.167UA	0.000	GSFC	SS	-	UCO/Thomas	Aeronomy	WDCRF	JGR83A2-513	-
1974-S412	2442395.31	1974 Dec 13 1927:11	Nike Tomahawk	-	NASA 18.140IE	0.000	GSFC/NDRE	SS	-	NDRE/GSFC/Folkestad,Mayn	Auroral	WDCRF	AND	-
1974-S428	2442409.76	1974 Dec 28 0614:30	Aerobee 200A	-	NASA 26.30UG	0.000	GSFC	SS	-	CAL/Novick	XR Astron	ApJ202,L21	-	-
1975-S50	2442440.50	1975 Jan 28	Nike Tomahawk	-	Barium cloud	0.000	SAND	SS	-	LASL/	Magnetospheric	SRctCon3	-	-
1975-S55	2442443.50	1975 Jan 31	Nike Tomahawk	-	Barium cloud	0.000	SAND	SS	-	LASL/	Magnetospheric	SRctCon3	-	-
1975-S56	2442444.62	1975 Feb 1 0300	Aerobee 200A	-	NASA 26.27GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron?	WDCRF	-	-
1975-S57	2442446.89	1975 Feb 3 0916	Aerobee 350	-	NASA 17.13CG	0.000	GSFC	SS	-	LPARL/Catura	XR Astron	WDCRF	ApJ202,L5	-
1975-S60	2442448.50	1975 Feb 5	Nike Tomahawk	-	Barium cloud	0.000	SAND	SS	-	LASL/	Magnetospheric	SRctCon3	-	-
1975-S69	2442453.73	1975 Feb 10 0528:10	Nike Apache	-	NASA 14.536UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1975-S71	2442456.70	1975 Feb 13 0443	Nike Apache	-	NASA 14.535UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1975-S72	2442457.08	1975 Feb 13 1350	Aerobee 200A	-	NASA 26.40UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WDCRF	-	-
1975-S80	2442468.73	1975 Feb 25 0532	Nike Apache	-	NASA 14.537UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WDCRF	-	-
1975-S87	2442472.79	1975 Mar 1 0655	Nike Tomahawk	-	NASA 18.159UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	WDCRF	-	-
1975-S88	2442475.82	1975 Mar 4 0739:30	Nike Javelin	-	DNA IC506.14-2	0.000	DNA	SS	-	DNA/	Auroral	WWW-PFRR	-	-
1975-S89	2442477.19	1975 Mar 5 1636:18	Nike Apache	-	SSC S16/2	0.000	SSC	SS	-	MISU/SSC/Witt,Grahn	Aeronomy	WDCRF	ESR075	-
1975-S91	2442477.65	1975 Mar 6 0343	Nike Hydac	-	DNA IC507.11-1A	0.000	DNA	SS	-	DNA/	Auroral	WWW-PFRR	-	-
1975-S92	2442477.76	1975 Mar 6 0616:30	Nike Hydac	-	DNA IC507.11-3	0.000	DNA	SS	-	DNA/	Auroral	WWW-PFRR	-	-
1975-S94	2442479.50	1975 Mar 8	Aerobee 200A	-	NASA 26.32UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WISR	-	-
1975-S95	2442481.88	1975 Mar 10 0912:20	Nike Hydac	-	DNA IC507.11-2A	0.000	DNA	SS	-	DNA/	Auroral	WWW-PFRR	-	-
1975-S99	2442482.77	1975 Mar 11 0634:11	Nike Javelin	-	DNA IC506.36-1	0.000	DNA	SS	-	AFCRL/Ulwick	Auroral	WWW-PFRR	-	-
1975-S100	2442483.61	1975 Mar 12 0232	Nike Apache	-	NASA 14.416GA	0.000	GSFC	SS	-	GSFC/Gentieu	Aeronomy	WDCRF	-	-
1975-S102	2442485.21	1975 Mar 13 1702:00	Nike Apache	-	SSC S16/1	0.000	SSC	SS	-	SSC/Witt,Grahn,Feldman	Aeronomy	WDCRF	ESR075	-
1975-S104	2442486.67	1975 Mar 15 0410	Aerobee 350	-	NASA 17.15UG	0.000	GSFC	SS	-	SAO/Gorenstein	XR Astron	WDCRF	-	-
1975-S105	2442486.79	1975 Mar 15 0700:57	Aerobee 200A	-	NASA 26.39UG	0.000	GSFC	SS	-	JHU/Moos	UV Astron	ApJ222,365	WDCRF	-
1975-S109	2442489.85	1975 Mar 18 0827	Nike Tomahawk	-	NASA 18.165UE	0.000	GSFC	SS	-	UNH/UMN/Arnoldy,Cahill	Plasma	WDCRF	-	-
1975-S111	2442494.97	1975 Mar 23 1118:20	Nike Tomahawk	-	NASA 18.166UE	0.000	GSFC	SS	-	UNH/UMN/Arnoldy,Cahill	Plasma	WDCRF	-	-
1975-A16	2442498.50	1975 Mar 27	Nike	-	-	0.000	SAND	AS	-	SAND/	Test	JCM	-	-
1975-A18	2442507.00	1975 Apr 4 1200	Nike Tomahawk	-	NASA 18.172GE	0.000	GSFC	SF	U	GSFC/Heppner	Plasma	WDCRF	SP-4020	-
1975-S115	2442511.30	1975 Apr 8 1905	Nike Cajun	-	NASA 10.377UM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	-
1975-S116	2442512.69	1975 Apr 10 0440	Aerobee 170A	-	NASA 13.88GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	WDCRF	-	-
1975-S121	2442515.84	1975 Apr 13 0815	Nike Tomahawk	-	NASA 18.174GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1975-S123	2442515.94	1975 Apr 13 1038	Nike Tomahawk	-	NASA 18.173GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1975-S124	2442518.89	1975 Apr 16 0915	Nike Tomahawk	-	NASA 18.175GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1975-A22	2442520.50	1975 Apr 18	Nike	-	-	0.000	SAND	AF	U	SAND/	Test	JCM	-	-
1975-S159	2442556.54	1975 May 24 0100	Nike Tomahawk	-	NASA 18.170GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WDCRF	-	-
1975-S160	2442556.79	1975 May 24 0655	Nike Tomahawk	-	NASA 18.171GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WDCRF	-	-
1975-S162	2442559.83	1975 May 27 0801	Nike Apache	-	NASA 14.530UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy	WDCRF	-	-
1975-S161	2442560.29	1975 May 27 1902	Nike Apache	-	NASA 14.531UA	0.000	GSFC	SS	-	DUD/Hemenway	Aeronomy	AeronRpt80	SP-4020	-
1975-S166	2442561.35	1975 May 28 2026	Nike Apache	-	NASA 14.532UE	0.000	GSFC	SS	-	UIUC/Bowhill	Plasma	WDCRF	SR18,265	-
1975-S170	2442562.69	1975 May 30 0435	Nike Apache	-	NASA 14.524UE	0.000	GSFC	SS	-	UIUC/Bowhill	Plasma	WDCRF	SR18,261	-
1975-S185	2442563.50	1975 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1975-S186	2442563.50	1975 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1975-S187	2442563.50	1975 Jun	Nike Hydac	?	HARSES	0.000	AFCRL	SS	-	WSMR/	Aeron?	WSMR	-	-
1975-S169	2442564.66	1975 Jun 1 0355	Nike Apache	-	NASA 14.538UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	AeronRpt80	WDCRF	-
1975-S189	2442565.72	1975 Jun 2 0511	Nike Apache	-	NASA 14.525UE	0.000	GSFC	SS	-	UIUC/Bowhill	Plasma	WDCRF	SR18,261	-
1975-A34	2442567.18	1975 Jun 3 1614	Nike Tomahawk	-	NASA 18.149GE	0.000	GSFC	SF	U	GSFC/Maynard	Plasma	WDCRF	SP-4020	-
1975-S190	2442567.20	1975 Jun 3 1641	Nike Apache	-	NASA 14.540CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	WDCRF	-	-
1975-S193	2442571.17	1975 Jun 7 1607	Nike Tomahawk	-	NASA 18.150GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	WDCRF	-	-
1975-S194	2442571.20	1975 Jun 7 1645	Nike Apache	-	NASA 14.541CA	0.000	GSFC	SS	-	GCA/Bedinger	Aeronomy	AeronRpt80	WDCRF	-
1975-A37	2442573.28	1975 Jun 9 1842	Aerobee 170	-	NASA 13.112UA	0.000	GSFC	SF	U	UCO/Barth	Aeronomy	WDCRF	SP-4020	-
1975-S196	2442574.05	1975 Jun 10 1318:56	Nike Cajun	-	-	0.000	NTNF	SS	-	MPE/NDRE/Krankowsky	Auroral	AND	ESR075	-
1975-S224	2442603.83	1975 Jul 10 0800	Aerobee 170	-	NASA 13.73GG	0.000	GSFC	SS	-	GSFC/Bohlin	UV Astron?	WDCRF	-	-
1975-S230	2442617.72	1975 Jul 24 0520	Nike Cajun	-	NASA 10.413GM Icomp	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	SR19,111	-
1975-S239	2442631.65	1975 Aug 7 0330	Aerobee 170	-	CRL A04.308-1	0.000	AFCRL	SS	-	AFCRL/Cohen	Aeron	AFCRL	-	-
1975-S240	2442632.17	1975 Aug 7 1610	Nike Cajun	-	NASA 10.407GM	0.000	GSFC	SS	-	GSFC/Hilsenrath	Aeronomy	WDCRF	-	-
1975-S246	2442640.82	1975 Aug 16 0740	Aerobee 170	-	NASA 13.50UH	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1975-S257	2442651.28	1975 Aug 26 1850	Aerobee 170	-	NASA 13.74UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1975-S265	2442658.94	1975 Sep 3 1030	Nike Tomahawk	12	Sandia 152-?	0.000	SAND	SS	-	LRL/	XR Astron	FDS	-	-
1975-S271	2442665.31	1975 Sep 9 1932	Nike Hawk	-	NASA 12.28WT	0.000	GSFC	SS	-	WFF/Flowers	Test/Aeron	WDCRF	-	-
1975-S280	2442678.92	1975 Sep 23 1002:23	Nike Tomahawk	12	Sandia 152-?	0.000	SAND	SS	-	LRL/	XR Astron	FDS	-	-
1975-S283	2442680.39	1975 Sep 24 2127	Nike Tomahawk	-	NASA 18.163UE	0.000	GSFC	SS	-	UTD/Christensen	Plasma	CR147194	WDCRF	-
1975-S298	2442688.64	1975 Oct 3 0315	Aerobee 200A	-	NASA 26.47DH	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	-	-
1975-S300	2442694.95	1975 Oct 9 1045	Aerobee 170	-	NASA 13.117UL	0.000	GSFC	SS	-	UCO/Barth,Lawrence	UV Astron	WDCRF	-	-
1975-S305	2442703.70	1975 Oct 18 0445	Aerobee 170	-	NASA 13.108UH	0.000	GSFC	SS	-	MIT/Bradt	XR Astron	WDCRF	-	-
1975-A58	2442714.50	1975 Oct 29	Nike	-	-	0.000	SAND	AS	-	SAND/	Test	JCM	-	-
1975-S308	2442714.61	1975 Oct 29 0239	Aerobee 170A	-	NASA 13.48GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	WDCRF	-	-
1975-A59	2442716.50	1975 Oct 31	Nike	-	-	0.000	SAND	AS	-	SAND/	Test	JCM	-	-
1975-S317	2442724.72	1975 Nov 8 0520	Aerobee 170	-	NASA 13.049UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1975-A64	2442735.19	1975 Nov 18 1630	Nike Cajun	-	NASA 10.409GM	0.000	GSFC	SF	U	GSFC/Wright	Aeronomy	WDCRF	SP-4020	-
1975-S321	2442735.29	1975 Nov 18 1901	Nike Javelin	-	NASA 32.01WT	0.000	GSFC	SS	-	WFF/Needleman	Test	WDCRF	-	-
1975-S322	2442736.24	1975 Nov 19 1745	Nike Cajun	-	NASA 10.415GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-S323	2442737.67	1975 Nov 21 0411	Nike Cajun	-	NASA 10.423GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1975-S324	2442738.19	1975 Nov 21 1637:36	Nike Apache	-	SSC SO1 (T1)	0.000	SSC	SS	-	SSC/	Test	WDCRF	ESR075	-
1975-S341	2442750.21	1975 Dec 3 1657	Nike Cajun	-	NASA 10.424GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1975-S342	2442750.50	1975 Dec 4	Black Brant 8B	-	AAF-NVB-01	0.000	BAL	SS	-	BAL/Sevier	Test	SRctCon3	FC	-
1975-S345	2442750.64	1975 Dec 4 0322	Aerobee 350	-	CRL A35.191-1	0.000	AFCRL	SS	-	AFCRL/Walker	IR Astron	AFCRL	-	-
1975-S346	2442750.73	1975 Dec 4 0525	Nike Cajun	-	NASA 10.410GM	0.000	GSFC	SS	-	GSFC/Wright	Aeronomy	WDCRF	-	-
1975-S348	2442752.75	1975 Dec 6 0605	Aerobee 350	-	NASA 17.16UH	0.000	GSFC	SS	-	SAO/Gorenstein	XR Astron	WDCRF	-	-
1975-S349	2442752.82	1975 Dec 6 0742	Aerobee 170	-	NASA 13.118DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron?	WDCRF	-	-
1975-S352	2442763.17	1975 Dec 16 1600	Nike Tomahawk	-	NASA 12.31GT	0.000	GSFC	SS	-	GSFC/Bolster	Test	WDCRF	-	-
1976-S46	2442782.10	1976 Jan 4 1430	Nike Apache	-	DLR H-NA-70	0.000	DLR	SS	-	MPE/Krankowsky	Aeron/Ionos/Solar UV	Moraba	JATP41,1097	-
1976-S60	2442796.22	1976 Jan 18 1712	Nike Tomahawk	-	NASA 18.1007UE	0.000	GSFC	SS	-	UIUC/Smith,Sechrist	Plasma	Ulrich/FDC	WISR	-
1976-S66	2442799.11	1976 Jan 21 1432:09	Nike Apache	-	DLR H-NA-72/Ferd 43	0.000	DLR/NTNF	SS	-	MPE/Krankowsky	Aeron/Ionos	Moraba	JATP41,1097	-
1976-S72	2442800.29	1976 Jan 22 1858:36	Nike Tomahawk	-	SSC S17-1 (EF8)	0.000	SSC	SS	-	KGI/UIO/	Ionos	ESA-SP115-213	-	-
1976-S76	2442801.45	1976 Jan 23 2245	Nike Tomahawk	-	GL A08.608-1	0.000	AFGL	SS	-	AFCRL/Vickery	Aeron	AFCRL	-	-
1976-S89	2442810.31	1976 Feb 1 1928:55	Nike Tomahawk	-	NASA 18.208UE	0.000	GSFC/NTNF	SS	-	NDRE/Maehlum	Auroral/Active	AND	ESA-SP115-213	-
1976-A10	2442815.50	1976 Feb 7 0005:10	Nike	-	-	0.000	PFRR	SS	-	UAF/Brown	Test	WWW-PFRR	-	-
1976-S103	2442826.80	1976 Feb 18 0705:59	Nike Tomahawk	-	NASA 18.1001UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	WWW-PFRR	-	-
1976-S107	2442830.32	1976 Feb 21 1942:32	Nike Apache	-	SSC S18-2	0.000	SSC	SS	-	MPIK/NDRE/UIO/Bjorn	Ionos	ESA-SP115-213	JATP41,1185	-
1976-S110	2442833.31	1976 Feb 24 1920	Aerobee 170	-	GL A04.305-1	0.000	AFGL	SS	-	AFCRL/Heroux	Solar X/UV	AFCRL	-	-
1976-S115	2442837.01	1976 Feb 28 1212:50	Nike Tomahawk	-	NASA 18.164UE	0.000	GSFC	SS	-	UTD/Hanson	Auroral/Ionos	www.pfrr.alaska.edu	WDCRF	-
1976-S119	2442838.95	1976 Mar 1 1045:45	Nike Tomahawk	-	NASA 18.1002UE	0.000	GSFC	SS	-	RICE/Cloutier	Plasma	WDCRF	-	-
1976-A12	2442839.64	1976 Mar 2 0324:30	Nike Apache	-	NASA 14.461UE	0.000	GSFC	SF	U	PITT/Zipf	Plasma	WDCRF	-	-
1976-S120	2442840.49	1976 Mar 2 2349:30	Nike Apache	-	SSC S21-1	0.000	SSC	SS	-	UIO/UCL/	Ionos	ESA-SP115-213	-	-
1976-S125	2442842.98	1976 Mar 5 1136	Aerobee 170	-	NASA 13.128UC	0.000	GSFC	SS	-	UCO/Barth	UV Astron	WDCRF	-	-
1976-S126	2442842.99	1976 Mar 5 1140	Aerobee 200A	-	NASA 26.50UC	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WDCRF	-	-
1976-S128	2442844.38	1976 Mar 6 2100:16	Nike Tomahawk	-	SSC S17-2	0.000	SSC	SS	-	KGI/UIO/	Ionos	ESA-SP115-213	-	-
1976-S133	2442847.96	1976 Mar 10 1058	Aerobee 170	-	NASA 13.129GC	0.000	GSFC	SS	-	GSFC/Smith	UV Astron	WDCRF	-	-
1976-S139	2442857.22	1976 Mar 19 1715	Nike Cajun	-	NASA 10.425GM	0.000	GSFC	SS	-	UMI/Horvath	Aeronomy	WDCRF	-	FDC/1915Z
1976-S140	2442859.78	1976 Mar 22 0643:40	Aerobee 170A	-	NASA 13.116UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	FC	WDCRF	-
1976-S141	2442860.75	1976 Mar 23 0600	Aerobee 200A	-	NASA 26.55GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	WDCRF	-	-
1976-S144	2442863.62	1976 Mar 26 0258:26	Aerobee 170	-	NASA 13.077UA	0.000	GSFC	SS	-	JHU/Feldman,Fastie	Auroral	GRL4,75	WDCRF	-
1976-S145	2442864.07	1976 Mar 26 1340	Nike Hydac	-	DNA IC607.11-2C	0.000	AFGL/DNA	SS	-	AFCRL/Ulwick	Auroral	WWW-PFRR	-	-
1976-S146	2442864.38	1976 Mar 26 2100	Aerobee 200A	-	NASA 26.017AS	0.000	GSFC	SS	-	ERDA/Blake	Solar X/UV	WDCRF	-	-
1976-S148	2442864.78	1976 Mar 27 0643	Nike Tomahawk	-	NASA 18.176GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1976-S149	2442865.03	1976 Mar 27 1250	Nike Tomahawk	-	NASA 18.194GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	AnnalesGeo32,407	-
1976-S150	2442866.04	1976 Mar 28 1300	Nike Tomahawk	-	NASA 18.195GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	AnnalesGeo32,407	-
1976-S152	2442868.02	1976 Mar 30 1230	Nike Tomahawk	-	NASA 18.177GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1976-S153	2442868.04	1976 Mar 30 1256	Nike Hydac	-	NSF	0.000	NSF	SS	-	UAF/Davis,Wescott	Aeron/Fields	WWW-PFRR	-	-
1976-S164	2442889.64	1976 Apr 21 0315	Aerobee 200A	-	NASA 26.049DH	0.000	GSFC	SS	-	NRL/Fritz,Cruddace	XR Astron	ApJ222,L95	-	-
1976-S178	2442909.87	1976 May 11 0855	Aerobee 200A	-	NASA 26.038GH	0.000	GSFC	SS	-	GSFC/CIT/Boldt,Garmire	XR Astron	WDCRF	-	-
1976-S179	2442910.21	1976 May 11 1708	Aerobee 200	-	NASA 26.045CS	0.000	GSFC	SS	-	AERO/McKenzie	Solar	WDCRF	-	-
1976-S169	2442918.50	1976 May 20	Nike Nike	-	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron	ADA035514	-	-
1976-A84	2442939.25	1976 Jun 9 1800	Nike	-	G1-8283	0.000	WFF	AS	-	WFF/?	Test?	FirstDayCover	-	-
1976-S201	2442941.29	1976 Jun 11 1858	Nike Javelin	-	NASA 32.004WT	0.000	GSFC	SS	-	WFF/Ballance	Test	FDC/Ulrich	WISR	-
1976-S203	2442946.73	1976 Jun 17 0530	Aerobee 350	-	NASA 17.017UH	0.000	GSFC	SS	-	SAO/Gorenstein	XR Astron	WDCRF	-	-
1976-S218	2442959.26	1976 Jun 29 1820	Nike Tomahawk	-	NASA 18.181GA	0.000	GSFC	SS	-	GSFC/Guenther	Aeronomy	JCM	-	-
1976-S219	2442959.26	1976 Jun 29 1820	Aerobee 170	-	NASA 13.130GS	0.000	GSFC	SS	-	GSFC/Thekaekara	Solar	WDCRF	Sci207,177	-
1976-S225	2442973.24	1976 Jul 13 1748	Aerobee 170A	-	NASA 12.032GT	0.000	GSFC	SS	-	GSFC/Kraft	Test	WDCRF	Desind	-
1976-S231	2442986.17	1976 Jul 26 1559	Aerobee 170A	-	NASA 12.033GT	0.000	GSFC	SS	-	GSFC/Kraft	Test	WDCRF	-	-
1976-S222	2442987.50	1976 Jul 28	Nike Nike	-	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron	ADA035514	-	-
1976-S243	2442994.30	1976 Aug 3 1916	Aerobee 350	-	GL A35.191-4	0.000	AFGL	SS	-	AFCRL/Schurin,Murdock	IR Astron	AFCRL	AFCRL	-
1976-S244	2442995.24	1976 Aug 4 1739	Aerobee 200A	-	NASA 26.043US	0.000	GSFC	SS	-	UHI/Jefferies	Solar UV	WDCRF	-	-
1976-S248	2443003.16	1976 Aug 12 1554	Nike Tomahawk	-	NASA 18.168UE	0.000	GSFC	SS	-	UIUC/Smith,Bowhill	Plasma/Aeron	WDCRF	SR18,245	-
1976-A52	2443011.65	1976 Aug 21 0340	Nike Hydac	-	GL A11.605	0.000	AFGL	SF	S2	AFCRL/Faire	Aeron	AFCRL	-	-
1976-S269	2443013.25	1976 Aug 22 1755	Nike Tomahawk	-	NASA 18.209IE	0.000	GSFC	SS	-	DSRI/DMI/Primdahl,Jesp.	Plasma/Auroral	WDCRF	-	-
1976-S271	2443017.96	1976 Aug 27 1108	Nike Tomahawk	-	NASA 18.210IE	0.000	GSFC	SS	-	DSRI/Jesperson	Plasma	WDCRF	-	-
1976-S283	2443021.65	1976 Aug 31 0340	Nike Hydac	-	GL A11.408-1	0.000	AFGL	SS	-	AFCRL/Faire	Aeron	AFCRL	-	-
1976-S292	2443038.21	1976 Sep 16 1700	Aerobee 170A	-	NASA 13.134CS	0.000	GSFC	SS	-	ASE/Davis	Solar X	WDCRF	-	-
1976-S296	2443043.04	1976 Sep 21 1252	Nike Tomahawk	-	NASA 18.178GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WDCRF	-	-
1976-S297	2443044.98	1976 Sep 23 1137:10	Nike Tomahawk	-	NASA 18.179GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WDCRF	-	-
1976-M09	2443052.04	1976 Sep 30 1253:25	Nike Tomahawk	-	NASA 18.180GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WDCRF	-	-
1976-A63	2443058.31	1976 Oct 6 1930	Nike Cajun	-	NASA 10.317UI	0.000	GSFC	SF	U	PSU/Kendall	Ionos	WDCRF	SP-4021	-
1976-S314	2443081.42	1976 Oct 29 2211	Nike Tomahawk	-	NASA 18.155UA	0.000	GSFC	SS	-	UCO/Barth	Aeronomy	WDCRF	-	-
1976-S315	2443081.65	1976 Oct 30 0330	Aerobee 200A	-	NASA 26.056DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WDCRF	SPIE932,61	-
1976-S325	2443100.27	1976 Nov 17 1830	Black Brant 8C	-	NASA 27.001CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	SP-4021	-
1976-S328	2443101.89	1976 Nov 19 0925	Black Brant 8C	-	NASA 27.002UH	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron	WDCRF	-	-
1976-S338	2443110.37	1976 Nov 27 2051:41	Nike Tomahawk	-	NASA 18.206IE	0.000	GSFC	SS	-	NDRE/OSLO/Egeland	Auroral	AND	ESA-SP291-71	-
1977-S36	2443152.29	1977 Jan 8 1903	Nike Tomahawk	-	NASA 18.1008UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WDCRF	SR19,155	-
1977-S40	2443158.53	1977 Jan 15 0050:02	Nike Apache	-	SSC S18-1	0.000	SSC	SS	-	UIO/NDRE/MPE/Bjorn	Ionos	ESA-SP115-213	BAE	-
1977-S42	2443158.76	1977 Jan 15 0617	Aerobee 170A	-	NASA 13.122UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1977-S47	2443167.30	1977 Jan 23 1918:06	Nike Tomahawk	-	NASA 18.1005UE	0.000	GSFC	SS	-	UMN/Cahill	Plasma	WDCRF	AND	-
1977-S59	2443181.37	1977 Feb 6 2050:43	Nike Tomahawk	-	NASA 18.1004UE	0.000	GSFC	SS	-	UMN/Cahill	Plasma	WDCRF	AND	-
1977-S60	2443181.70	1977 Feb 7 0451:40	Nike Tomahawk	-	NASA 18.1011UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1977-S69	2443185.70	1977 Feb 11 0448:40	Nike Tomahawk	-	NASA 18.1012UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1977-S73	2443186.37	1977 Feb 11 2049:07	Nike Tomahawk	-	NASA 18.213IE	0.000	SSC	SS	-	UIO/Holmgren	Auroral	WDCRF	-	-
1977-S75	2443190.03	1977 Feb 15 1250	Nike Apache	-	NASA 14.500UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	FC	WISR	-
1977-S76	2443190.11	1977 Feb 15 1438	Aerobee 200A	-	NASA 26.54UH	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WDCRF	-	-
1977-S77	2443190.22	1977 Feb 15 1710	Aerobee 200A	-	NASA 26.52DH	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	-	-
1977-S78	2443190.28	1977 Feb 15 1848:10	Nike Apache	-	SSC S21/3	0.000	SSC	SS	-	UIO/UCL/Holmgren	Ionos	ESA-SP115-213	BAE	-
1977-S82	2443191.36	1977 Feb 16 2045:07	Nike Tomahawk	-	NASA 18.212GE-IE	0.000	GSFC	SS	-	GSFC/NDRE/Maynard,Maehl.	Aeron/Auroral	SR17,321	AND	-
1977-S83	2443191.85	1977 Feb 17 0830	Aerobee 170	-	NASA 13.124UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	ApJ227,884	WDCRF	-
1977-S84	2443192.09	1977 Feb 17 1405	Aerobee 200A	-	NASA 26.57GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron	WDCRF	ApJ320,609	-
1977-S89	2443196.10	1977 Feb 21 1430	Aerobee 200A	-	NASA 26.51UG	0.000	GSFC	SS	-	JHU/Moos	UV Astron	WDCRF	-	-
1977-S90	2443196.38	1977 Feb 21 2106	Aerobee 170	-	NASA 13.123IS	0.000	GSFC	SS	-	ADEL/Carver	Aeron	WDCRF	SR19,255	-
1977-S91	2443198.06	1977 Feb 23 1320	Aerobee 200A	-	NASA 26.53DH	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	-	-
1977-S94	2443201.33	1977 Feb 26 2002	Nike Orion	-	NASA 31.01UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	FC	WISR	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S99	2443207.70	1977 Mar 5 0447	Black Brant 8B	-	AAF-NVB-02	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Ionos/Field	WDCRF	-	-
1977-S324	2443210.51	1977 Mar 8 0014:05	Nike Hydac	-	DNA ST707.51-1	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S325	2443210.52	1977 Mar 8 0032:04	Nike Hydac	-	DNA ST707.51-2	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S104	2443211.50	1977 Mar 9	Nike Orion	-	NASA 31.02UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	SP-4022	WISR	-
1977-S326	2443216.48	1977 Mar 13 2327:00	Nike Hydac	-	DNA ST707.51-3	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S327	2443216.49	1977 Mar 13 2344:50	Nike Hydac	-	DNA ST707.51-4	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S110	2443217.23	1977 Mar 14 1738	Nike Apache	-	DFVLR Firefly	0.000	DFVLR	SS	-	DFVLR/	Auroral?	Moraba	ESA77	-
1977-S328	2443217.48	1977 Mar 14 2325:20	Nike Hydac	-	DNA ST707.51-5	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S329	2443217.50	1977 Mar 15 0003:10	Nike Hydac	-	DNA ST707.51-6	0.000	DNA	SS	-	USU/Baker	Ionos	DNA4620T	-	-
1977-S125	2443224.77	1977 Mar 22 0630	Aerobee 200A	-	NASA 26.59UG	0.000	GSFC	SS	-	UWI/Code	UV Astron?	WDCRF	-	-
1977-S139	2443233.50	1977 Apr	Nike Hydac	?	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron?	WSMR	-	-
1977-S140	2443233.50	1977 Apr	Nike Hydac	?	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron?	WSMR	-	-
1977-S144	2443241.77	1977 Apr 8 0623:50	Nike Tomahawk	-	NASA 18.1013GA	0.000	GSFC	SS	-	GSFC/Gentieu	Aeronomy	FC	WDCRF	-
1977-S149	2443255.21	1977 Apr 21 1700:00	Aerobee 170	-	GL A04.410-02	0.000	AFGL	SU	-	AFCRL/Bedo	Solar UV/Solar EUV	WDCRF	-	-
1977-S154	2443263.50	1977 May	Nike Hydac	?	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron?	WSMR	-	-
1977-S167	2443282.07	1977 May 18 1343	Nike Hydac	-	GL A11.712-1	0.000	AFGL	SS	-	AFCRL/Faire	Aeron	WDCRF	-	-
1977-A30	2443284.46	1977 May 20 2309	Aerobee 170A	-	NASA 13.131DA	0.000	GSFC	SF	U	NRL/Carruthers	Aeronomy	WDCRF	SP-4022	-
1977-S169	2443288.81	1977 May 25 0725	Aerobee 200A	-	NASA 26.061UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1977-S196	2443303.74	1977 Jun 9 0540	Black Brant 8C	-	NASA 27.08UH	0.000	GSFC	SS	-	SAO/Gorenstein	XR Astron	WDCRF	-	-
1977-S213	2443336.74	1977 Jul 12 0545	Nike Orion	-	NASA 31.05UA	0.000	GSFC	SS	-	UCO/Thomas	Aeronomy	WDCRF	-	-
1977-S219	2443351.69	1977 Jul 27 0440	Black Brant 8C	-	NASA 27.31UH	0.000	GSFC	SS	-	SAO/Gorenstein	XR Astron	WDCRF	-	-
1977-S228	2443365.71	1977 Aug 10 0501	Nike Apache	-	NASA 14.534UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WDCRF	-	-
1977-S231	2443373.22	1977 Aug 17 1710	Nike Tomahawk	-	NASA 18.182GA	0.000	GSFC	SF	U	GSFC/Guenther	Aeronomy	WDCRF	SP-4022	-
1977-S233	2443374.48	1977 Aug 18 2335	Nike Tomahawk	-	NASA 18.1009UE	0.000	GSFC	SS	-	UTD/Christensen	Plasma	WDCRF	-	-
1977-S237	2443386.50	1977 Sep	Nike Hydac	?	HARSES	0.000	AFGL	SS	-	WSMR/	Aeron?	WSMR	-	-
1977-S252	2443411.00	1977 Sep 24 1155	Nike Iroquois	-	GL A07.707-1	0.000	AFGL	SS	-	AFCRL/Vickery	Aeronomy	WDCRF	-	-
1977-S256	2443418.62	1977 Oct 2 0300	Aerobee 200A	-	NASA 26.65IH-UH	0.000	GSFC	SS	-	SAO/FRASC/Gore.,Spada	XR Astron	WDCRF	-	-
1977-S264	2443437.87	1977 Oct 21 0849:00	Black Brant 8C	-	SSC S19B	0.000	SSC	SS	-	SSC/Anderson	Test	ESA-SP135-437	Chesser	-
1977-A48	2443467.49	1977 Nov 19 2352	Nike	-	NERDD	0.000	UAF	SS	-	UAF/Brown	Test	WWW-PFRR	-	-
1977-S297	2443483.50	1977 Dec 6 0005	Black Brant 8B	-	AAF-NVB-03	0.000	NRCC	SS	-	YORK/Shepherd	Ionospheric	WDCRF	-	-
1977-S298	2443488.75	1977 Dec 11 0600	Aerobee 200A	-	NASA 26.60GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	WDCRF	-	-
1977-S300	2443489.19	1977 Dec 11 1630	Nike Tomahawk	-	NASA 18.183GA	0.000	GSFC	SS	-	GSFC/Guenther	Aeronomy	WDCRF	-	-
1977-A50	2443490.46	1977 Dec 12 2300	Black Brant 8B	-	AAF-NVB-04	0.000	NRCC	SF	U	YORK/Shepherd	Auroral/Ionos/Field	WDCRF	-	-
1977-S302	2443490.74	1977 Dec 13 0550	Aerobee 170	-	GL A04.602	0.000	AFGL	SS	-	AFCRL/O'Neil	Active Plasma	WDCRF	AFCRL	-
1977-S304	2443491.71	1977 Dec 14 0500	Nike Orion	-	NASA 31.03UA	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	JCM	-	-
1978-S41	2443513.71	1978 Jan 5 0501	Nike Apache	-	NASA 14.533UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	AeronRept101	WISR	-
1978-S52	2443539.37	1978 Jan 30 2052:10	Nike Tomahawk	-	NASA 18.211IE/UE	0.000	GSFC	SS	-	UMD/Matthews	Auroral	AND	WDCRF	-
1978-S55	2443540.27	1978 Jan 31 1835	Black Brant 8C	-	NASA 27.029CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1978-A05	2443543.85	1978 Feb 4 0820	Aerobee 200A	-	NASA 26.063UH	0.000	GSFC	SF	U	UWI/Kraushaar	XR Astron	WDCRF	-	-
1978-S77	2443566.74	1978 Feb 27 0543:36	Nike Tomahawk	-	NASA 18.1017UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1978-S80	2443567.68	1978 Feb 28 0417	Nike Tomahawk	-	NASA 18.1015UE	0.000	GSFC	SS	-	CORN/Kelley	Aeron Ba	WWW-PFRR	ESA-SP135	-
1978-S83	2443568.24	1978 Feb 28 1752	Aerobee 170	-	NASA 13.136DA	0.000	GSFC	SS	-	NRL/Carruthers	Aeronomy	WDCRF	-	-
1978-S84	2443568.55	1978 Mar 1 0113:00	Nike Apache	-	Ferdinand 47	0.000	NTNF	SS	-	NDRE/Thrane	Ionospheric	WDCRF	AND	-
1978-S85	2443568.55	1978 Mar 1 0113:01	Nike Apache	-	Ferdinand 48	0.000	NTNF	SS	-	MPE/NDRE/Krankowsky	Ionospheric	WDCRF	AND	-
1978-S88	2443569.68	1978 Mar 2 0423	Nike Tomahawk	-	NASA 18.1016UE	0.000	GSFC	SS	-	CORN/Kelley	Aeron Ba	WWW-PFRR	ESA-SP135	-
1978-S91	2443578.05	1978 Mar 10 1315:31	Nike Tomahawk	-	NASA 18.1018UE	0.000	GSFC	SS	-	UAF/Davis	Plasma	WWW-PFRR	-	-
1978-S96	2443594.94	1978 Mar 27 1027	Nike Tomahawk	-	NASA 18.215GM	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WDCRF	-	-
1978-S98	2443597.20	1978 Mar 29 1650	Nike Tomahawk	-	NASA 18.214GM	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WDCRF	-	-
1978-A14	2443604.00	1978 Apr 5 1158	Nike Hydac	-	GL A11.712-3	0.000	AFGL	SF	U	AFCRL/Philbrick	Aeron	WDCRF	AFCRL	-
1978-S102	2443604.02	1978 Apr 5 1226	Nike Hydac	-	GL A11.712-4	0.000	AFGL	SS	-	AFCRL/Philbrick	Aeron	WDCRF	AFCRL	-
1978-S104	2443607.70	1978 Apr 9 0450	Black Brant 8B	-	NASA 27.10AE	0.000	GSFC	SS	-	NOAA/Bernstein	Auroral active	ESA-SP152-407	-	-
1978-S105	2443609.67	1978 Apr 11 0400	Black Brant 8C	-	NASA 27.26UH	0.000	GSFC	SS	-	UCB/Bowyer	XR Astron	WDCRF	-	-
1978-S113	2443612.31	1978 Apr 13 1922:56	Nike Orion	-	NASA 31.06UE	0.000	SSC	SS	-	UIO/JHU/Holback,Feldman	Test/Aeron	ESA-SP135-119	-	-
1978-S131	2443634.79	1978 May 6 0700	Aerobee 170A	-	NASA 13.137UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	ApJ269.107	-
1978-S271	2443636.99	1978 May 8 1139	Nike Tomahawk	-	-	0.000	SAND	SS	-	LASL/Pongratz	Release	Wire	NRL-MR-4112	Atom15-5
1978-S139	2443645.35	1978 May 16 2030	Aerobee 170	-	GL A04.606-1	0.000	AFGL	SS	-	AFCRL/Heroux	Aeron/Ionos/Solar EUV	WDCRF	AFCRL	-
1978-S272	2443646.99	1978 May 18 1145?	Nike Tomahawk	-	-	0.000	SAND	SS	-	LASL/Pongratz	Release	Atom15-5	NRL-MR-4112	-
1978-M02	2443648.90	1978 May 20 0929	Nike Nike	-	GL A45.710-1	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron	WDCRF	AFCRL	-
1978-M03	2443650.89	1978 May 22 0927	Nike Nike	-	GL A45.710-2	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron	WDCRF	AFCRL	-
1978-S153	2443670.77	1978 Jun 11 0632	Nike Apache	-	NASA 14.539UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	NAS-PR78-93	-	-
1978-S157	2443674.50	1978 Jun 15	Nike Tomahawk	-	NASA 18.1023UE	0.000	GSFC	SS	-	UTD/Christensen	Plasma	WISR	-	-
1978-S160	2443679.68	1978 Jun 20 0415	Nike Apache	-	NASA 14.543UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	NAS-PR78-93	-	-
1978-S165	2443685.59	1978 Jun 26 0208	Nike Tomahawk	-	NASA 18.1019CE	0.000	GSFC	SS	-	AERO/Morse	Plasma	NAS-PR78-93	-	-
1978-S191	2443720.47	1978 Jul 30 2313:00	Nike Orion	-	-	0.000	SSC	SS	-	MISU/Muller	Aeronomy	Sven	ESA78	-
1978-S197	2443735.11	1978 Aug 14 1445	Black Brant 8C	-	NASA 27.34DS	0.000	GSFC	SF	U	NRL/Brueckner	Solar	WDCRF	-	-
1978-A46	2443764.54	1978 Sep 13 0053	Nike Nike	-	GL A45.709-1	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron	WDCRF	AFCRL	-
1978-A47	2443764.97	1978 Sep 13 1113	Nike Nike	-	GL A45.709-2	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron	FC	AFCRL	-
1978-S210	2443767.38	1978 Sep 15 2100	Nike Tomahawk	-	GL A08.708-1	0.000	AFGL	SS	-	AFCRL/Narcisi	Ionos	WDCRF	AFCRL	-
1978-S211	2443771.27	1978 Sep 19 1830	Aerobee 170	-	GL A04.711-1	0.000	AFGL	SS	-	AFCRL/Bedo	Solar UV	WDCRF	AFCRL	-
1978-S215	2443778.73	1978 Sep 27 0530	Nike Apache	-	NASA 14.542UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	SR20,149	WISR	-
1978-S219	2443807.89	1978 Oct 26 0916:31	Nike Hydac	-	DNA IC807.15-1	0.000	DNA	SS	-	AFCRL/Ulwick	Auroral	WDCRF	AFCRL	-
1978-S220	2443807.89	1978 Oct 26 0920:20	Nike Javelin	-	DNA IC806.35-1	0.000	DNA	SF	U	AFCRL/Vickery	Auroral	WDCRF	AFCRL	-
1978-S221	2443807.90	1978 Oct 26 0929	Nike Hydac	-	DNA IR807.57-1	0.000	DNA	SS	-	AFCRL/Ulwick	Auroral IR	WDCRF	AFCRL	-
1978-S226	2443815.56	1978 Nov 3 0120	Aerobee 170A	-	NASA 13.135UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WDCRF	-	-
1978-S233	2443829.26	1978 Nov 16 1815	Aerobee 170A	-	NASA 13.138GS	0.000	GSFC	SS	-	GSFC/Duncan	Solar	WDCRF	Sci207,177	-
1978-S236	2443837.70	1978 Nov 25 0444:10	Black Brant 8B	-	AAF-NVB-05	0.000	NRCC	SS	-	UBC/Gush	Submm Astron	FC	PRL47,845	-
1978-S238	2443840.29	1978 Nov 27 1855:00	Nike Tomahawk	-	NASA 18.207IE	0.000	GSFC	SS	-	NDRE/Maehlum	Plasma	WDCRF	AND	-
1978-S239	2443840.29	1978 Nov 27 1855:35	Nike Tomahawk	-	NASA 18.216IE	0.000	GSFC	SS	-	NDRE/Maehlum	Plasma	ESA-SP152-331	AND	-
1978-S252	2443853.50	1978 Dec 11	Nike Tomahawk	-	NASA 18.1024UA	0.000	GSFC	SS	-	UMN/Nier	Aeronomy	WISR	-	-
1979-S49	2443901.38	1979 Jan 27 2101:59	Black Brant 8C	-	SSC S23H	0.000	SSC	SS	-	KGI/Sandahl	Auroral	ESA-SP152-257	Chesser	-
1979-S72	2443929.20	1979 Feb 24 1652	Nike Tomahawk	-	NASA 18.1020UE	0.000	GSFC	SS	-	UIUC/BERN/Smith	Test	JASTP45-427	-	-
1979-S77	2443931.19	1979 Feb 26 1628:00	Nike Orion	-	GL A12.9A1	0.000	AFGL	SS	-	AFCRL/Philbrick	Eclipse Aeron	JASTP45-437	-	-
1979-S78	2443931.19	1979 Feb 26 1628:30	Nike Orion	-	GL A12.9B1	0.000	AFGL	SS	-	AFCRL/Philbrick?	Eclipse Aeron	JASTP45-437	-	-
1979-S80	2443931.20	1979 Feb 26 1651:55	Nike Orion	-	GL A12.9A2	0.000	AFGL	SS	-	AFCRL/Ulwick	Eclipse/Aeron	JASTP45-479	-	-
1979-S81	2443931.20	1979 Feb 26 1652:00	Nike Tomahawk	-	NASA 18.1021UE	0.000	GSFC	SS	-	UIUC/BERN/Smith	Eclipse/Aeron	JASTP45-427	-	-
1979-S83	2443931.20	1979 Feb 26 1654:10	Nike Tomahawk	-	NASA 18.1022UE	0.000	GSFC	SS	-	UIUC/BERN/Smith	Eclipse/Aeron	JASTP45-427	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-S76	2443931.49	1979 Feb 26 2348	Nike Iroquois	-	GL A07.712-2	0.000	AFGL	SS	-	AFCRL/Faire	Eclipse/Aeron	WI-PR79-6	AFCRL	-
1979-S121	2443977.42	1979 Apr 13 2205	Black Brant 8C	-	NASA 27.33AS-US	0.000	GSFC	SS	-	HAO/HCO/MacQueen,Parkin.	Solar Opt/Solar UV	WDCRF	-	-
1979-S123	2443978.89	1979 Apr 15 0925	Nike Tomahawk	-	NASA 18.218GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1979-S126	2443981.89	1979 Apr 18 0915	Nike Tomahawk	-	NASA 18.217GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1979-S130	2443984.92	1979 Apr 21 1010	Black Brant 8C	-	NASA 27.38UE	0.000	GSFC	SS	-	UMD/Moore	Plasma	WDCRF	-	-
1979-S144	2444030.22	1979 Jun 5 1715	Black Brant 8C	-	NASA 27.28US	0.000	GSFC	SS	-	UCO/Rottman	Solar	WDCRF	-	-
1979-S150	2444045.73	1979 Jun 21 0525	Black Brant 8C	-	NASA 27.040UG	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	-	-
1979-S156	2444058.19	1979 Jul 3 1630	Black Brant 8C	-	NASA 27.32CS	0.000	GSFC	SS	-	LPARL/LPSP/Acton,Bonnet	Solar UV/X	ESA-SP152	-	-
1979-S167	2444075.21	1979 Jul 20 1700?	Nike Tomahawk	-	NASA 18.1026GU	0.000	GSFC	SS	-	GSFC/Guenther	Aeron	Ulrich	WISR	-
1979-S185	2444100.20	1979 Aug 14 1650	Nike Tomahawk	-	GL A08.705-2	0.000	AFGL	SS	-	AFCRL/Philbrick	Aeron	WDCRF	AFCRL	-
1979-S184	2444100.26	1979 Aug 14 1810:00	Nike Orion	-	SSC T3 Test	0.000	SSC	SS	-	SSC/	Test	ssc.se	ESA79	-
1979-A35	2444100.32	1979 Aug 14 1940	Nike Tomahawk	-	GL A08.706-2	0.000	AFGL	SF	U	AFCRL/Philbrick	Aeron	WDCRF	AFCRL	-
1979-S186	2444100.35	1979 Aug 14 2020	Aerobee 170	-	GL A04.703	0.000	AFGL	SS	-	AFCRL/Heroux	Aeron	AFGL-TR-81-0111	-	-
1979-S190	2444106.55	1979 Aug 21 0114:16	Nike Orion	-	NASA 31.16UE	0.000	SSC	SS	-	UIO/MISU/JHU/Holback	Aeronomy	Sven	WISR	-
1979-S199	2444127.50	1979 Sep 11	Nike Orion	-	NASA 31.04IU	0.000	GSFC	SS	-	WFF/Gurkin (?)	Aeron	WISR	SFLT22,85	-
1979-S208	2444141.35	1979 Sep 24 2020:10	Black Brant 8C	-	NASA 27.39UE	0.000	SSC	SS	-	CORN/Kelly	Auroral/release	ESA-SP152-263	-	-
1979-S220	2444164.03	1979 Oct 17 1240:00	Black Brant 8C	-	NASA 27.16NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	TM-X-82433	WISR	-
1979-S224	2444168.18	1979 Oct 21 1625	Nike Orion	-	NASA 31.10IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	Ulrich/FDC	WISR	-
1979-S225	2444168.24	1979 Oct 21 1748	Nike Orion	-	NASA 31.09IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	Ulrich/FDC	WISR	-
1979-S226	2444167.50	1979 Oct 21	Nike Orion	-	NASA 31.08IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	WISR	-	-
1979-S228	2444169.20	1979 Oct 22 1650	Nike Orion	-	DLR N-NO-98	0.000	DLR	SS	-	DLR/	Test	Moraba	ESA-SP152-205	-
1979-S232	2444173.41	1979 Oct 26 2145	Nike Orion	-	DLR N-NO-99	0.000	DLR	SS	-	DLR/	Test	Moraba	ESA-SP152-205	-
1979-M01	2444170.46	1979 Oct 23 2304	Nike Nike	-	GL A45.803-1	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron release	WDCRF	AFCRL	-
1979-M02	2444171.48	1979 Oct 24 2324	Nike Nike	-	GL A45.803-2	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron release	WDCRF	AFCRL	-
1979-M03	2444176.46	1979 Oct 29 2304	Nike Nike	-	GL A45.803-3	0.000	AFGL	SS	-	AFCRL/Quesada	Aeron release	WDCRF	AFCRL	-
1979-S233	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.13IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	WISR	-	-
1979-S234	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.12IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	WISR	-	-
1979-S235	2444178.50	1979 Nov 1	Nike Orion	-	NASA 31.11IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	WISR	-	-
1979-S237	2444185.37	1979 Nov 7 2050	Black Brant 8C	-	NASA 27.30CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1979-S246	2444210.73	1979 Dec 3 0532:47	Black Brant 8B	-	AAF-NVB-06	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Ionos	JGR91,A6,7079	FC	-
1980-S29	2444263.22	1980 Jan 24 1721:59	Nike Tomahawk	-	Ferdinand 50	0.000	NTNF	SS	-	UIO/BERG/Holback	Test/Ionos/Plasma	AND	WDCRF	-
1980-S44	2444285.85	1980 Feb 16 0823?	Black Brant 8C	-	NASA 27.43AS	0.000	GSFC	SS	-	LASL/Argo	Solar Eclipse	ESA-SP229-206	ProcInNSA48,A3,11	-
1980-S45	2444285.85	1980 Feb 16 0823:30	Black Brant 8C	-	NASA 27.42AS	0.000	GSFC	SS	-	LASL/Argo	Solar Eclipse	ESA-SP152-121	ProcInNSA48,A3,11	-
1980-S48	2444286.19	1980 Feb 16 1632	Black Brant 8C	-	NASA 27.37US	0.000	GSFC	SS	-	HCO/HAO/Parkinson	Solar UV/Solar Opt	BAAS13,912	-	-
1980-S55	2444290.54	1980 Feb 21 0053:49	Nike Tomahawk	-	Ferdinand 49	0.000	NTNF	SS	-	UIO/BERG/Soraas	Test/Auroral/Ionos/	WDCRF	AND	-
1980-S84	2444335.65	1980 Apr 6 0333:01	Black Brant 8B	-	AAF-NVB-07	0.000	NRCC	SS	-	NRCC/Whalen	Auroral/Aeron/Ionos	JGR86,A7,5601	WDCRF	-
1980-S107	2444374.23	1980 May 14 1730	Black Brant 8C	-	NASA 27.18NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	Ulrich	WISR	-
1980-S123	2444400.99	1980 Jun 10 1145	Black Brant 8C	-	NASA 27.46AS	0.000	GSFC	SS	-	LASL/Blake	Solar	WDCRF	-	-
1980-S126	2444414.73	1980 Jun 24 0530	Black Brant 8C	-	NASA 27.41UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WDCRF	-	-
1980-S144	2444436.21	1980 Jul 15 1700	Black Brant 8C	-	NASA 27.44US	0.000	GSFC	SS	-	UCO/Rottman	Solar	WDCRF	-	-
1980-S151	2444465.61	1980 Aug 14 0240	Nike Orion	-	NASA 31.21UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WDCRF	-	-
1980-S173	2444501.19	1980 Sep 18 1630	Aerobee 170	-	GL A04.801	0.000	AFGL	SS	-	AFCRL/Bedo	Solar UV	WDCRF	AFCRL	-
1980-S175	2444506.35	1980 Sep 23 2025	Black Brant 8C	-	NASA 27.36CS	0.000	GSFC	SS	-	LPARL/LPSP/Bruner,Bonnet	Solar UV/X	WDCRF	-	-
1980-S177	2444509.44	1980 Sep 26 2235	Black Brant 8C	-	NASA 27.35DH	0.000	GSFC	SS	-	NRL/Fritz	XR Astron	WDCRF	-	-
1980-S195	2444554.51	1980 Nov 11 0012:00	Nike Apache	-	Ferdinand 54	0.000	NTNF	SS	-	NDRE/Thrane	Ionospheric	AND	ESA-SP152-23	-
1980-S196	2444554.51	1980 Nov 11 0012:12	Nike Orion	-	DLR A-NO-101	0.000	NTNF	SS	-	MPE/NDRE/Krankowsky	Ionos	Moraba	ESA-SP152-23/AND	-
1980-S197	2444554.52	1980 Nov 11 0027:00	Nike Orion	-	DLR K-NO-105	0.000	DLR	SS	-	UCL/Rees Energiebilanz	Ionos/Aeron	Moraba	-	-
1980-S203	2444559.65	1980 Nov 16 0331:00	Nike Apache	-	Ferdinand 53	0.000	NTNF	SS	-	NDRE/Thrane	Ionospheric	WDCRF	ESA-SP152-23/AND	-
1980-S204	2444559.65	1980 Nov 16 0331:12	Nike Orion	-	DLR A-NO-102	0.000	NTNF/DLR	SS	-	MPE/NDRE/Krankowsky	Ionos	Moraba	ESA-SP152-23/AND	-
1980-S208	2444559.70	1980 Nov 16 0447	Nike Orion	-	DLR K-NO-106	0.000	DLR	SS	-	AFGL/UCL/Rees,Philbrick	Ionos/Aeron	Moraba	ESA-SP183-89	-
1980-S210	2444562.53	1980 Nov 19 0050	Black Brant 8C	-	NASA 27.19NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	TM-82578	-	-
1980-S214	2444571.64	1980 Nov 28 0324:36	Nike Apache	-	Ferdinand 52	0.000	NTNF	SS	-	NDRE/Thrane	Ionospheric	WDCRF	ESA-SP152-23/AND	-
1980-S215	2444571.64	1980 Nov 28 0324:48	Nike Orion	-	DLR A-NO-103	0.000	DLR	SS	-	MPE/NDRE/Krankowsky	Ionos	Moraba	ESA-SP152-23/AND	-
1980-S219	2444574.51	1980 Dec 1 0009:00	Nike Orion	-	DLR K-NO-107	0.000	DLR	SS	-	AFGL/UCL/Rees,Philbrick	Ionos/Aeron	ESA-SP183-89	Moraba	-
1980-S220	2444574.56	1980 Dec 1 0123:40	Nike Orion	-	DLR K-NO-108	0.000	DLR	SS	-	AFGL/UCL/	Ionos/Aeron	ESA-SP183-89	Moraba	-
1980-S228	2444582.77	1980 Dec 9 0630	Black Brant 8C	-	NASA 27.47GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron?	WDCRF	-	-
1980-S233	2444586.22	1980 Dec 12 1719	Nike Tomahawk	-	NASA 18.203UE	0.000	GSFC	SS	-	UMD/Matthews	Ionospheric	WDCRF	SRctCon6	-
1980-S278	2444590.03	1980 Dec 16 1249	Nike Apache	-	INTA NA/FL-8001	0.000	INTA	SS	-	CONIE/GSFC/CNES/	Ionospheric	ElAren	-	-
1980-S279	2444591.99	1980 Dec 18 1144	Nike Apache	-	INTA NA/FL-8002	0.000	INTA	SS	-	CONIE/GSFC/CNES/	Ionospheric	ElAren	-	-
1980-S239	2444594.23	1980 Dec 20 1732	Nike Tomahawk	-	NASA 18.204UE	0.000	GSFC	SS	-	UMD/Matthews	Ionospheric	WDCRF	-	-
1981-S49	2444615.27	1981 Jan 10 1822	Nike Tomahawk	-	NASA 18.205UE	0.000	GSFC	SS	-	UMD/Matthews	Ionospheric	WDCRF	-	-
1981-S53	2444625.52	1981 Jan 21 0025	Black Brant 8C	-	NASA 27.17NP	0.000	GSFC	SS	-	MSFC/Chassay	Micrograv	WDCRF	-	-
1981-S64	2444643.35	1981 Feb 7 2030:40	Nike Orion	-	SSC S35	0.000	SSC	SS	-	STO/UIO/	Aeronomy	ESA-SP183	-	-
1981-S67	2444649.22	1981 Feb 13 1715	Black Brant 8C	-	NASA 27.50CS	0.000	GSFC	SS	-	ASE/Davis	Solar	WDCRF	-	-
1981-S81	2444672.17	1981 Mar 8 1600	Nike Orion	-	NASA 31.07UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	www.phyast.pitt.edu	-	-
1981-S83	2444677.17	1981 Mar 13 1600	Nike Orion	-	NASA 31.17UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	www.phyast.pitt.edu	-	-
1981-S85	2444687.62	1981 Mar 24 0300	Black Brant 8C	-	NASA 27.55UH	0.000	GSFC	SS	-	CIT/Garmire	EUV Astron	WDCRF	-	Capella
1981-S89	2444693.75	1981 Mar 30 0552:55	Nike Orion	-	-	0.000	DNA	SS	-	UAF/Wescott	Aeron/Fields	WWW-PFRR	-	-
1981-S95	2444697.76	1981 Apr 3 0620:55	Nike Orion	-	-	0.000	DNA	SS	-	UAF/Wescott	Aeron/Fields	WWW-PFRR	-	-
1981-S107	2444728.83	1981 May 4 0755	Black Brant 8C	-	NASA 27.58UH	0.000	GSFC	SS	-	SAO/Delvaille,Schnopper	XR Astron	WDCRF	-	-
1981-S108	2444730.83	1981 May 6 0800	Black Brant 8C	-	NASA 27.60UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WDCRF	-	-
1981-S139	2444825.50	1981 Aug 9	Nike Orion	-	NASA 31.22UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	WI-PR81-11	-
1981-S159	2444878.47	1981 Sep 30 2320:00	Black Brant 8C	-	SSC S33	0.000	SSC	SS	-	SSC/CORN/Nordh,Houck	IR Astron	Sven	ESA-SP229-206	-
1981-S161	2444891.74	1981 Oct 14 0547	Nike Orion	-	NASA 31.14UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WI-PR81-16	-	-
1981-S162	2444893.50	1981 Oct 16	Nike Tomahawk	-	NASA 18.1027GU	0.000	GSFC	SS	-	GSFC/Guenther	Aeron	WISR	-	-
1981-S165	2444903.29	1981 Oct 25 1901:00	Nike Tomahawk	-	Polar 6	0.000	NDRE	SS	-	NDRE/BERG/Troim,Soraas	Auroral	WDCRF	AND	-
1981-S169	2444925.50	1981 Nov 17	Black Brant 8B	-	NASA 27.57UH	0.000	GSFC	SS	-	CAL/Ku	XR Astron	WISR	-	-
1981-S170	2444926.60	1981 Nov 18 0225	Black Brant 8B	-	NASA 27.09DH	0.000	GSFC	SS	-	NRL/MPE/Fritz,Cruddace	XR Astron	Ulrich/MissileRanger	WISR	CasA
1981-S171	2444932.27	1981 Nov 23 1835	Black Brant 8C	-	NASA 27.52US	0.000	GSFC	SS	-	UCO/Rottman	Solar	ApJ266,L65	WISR	-
1982-S37	2444989.52	1982 Jan 20 0030:15	Nike Orion	-	NASA 31.18GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	SRctCon6	-	-
1982-S43	2444993.01	1982 Jan 23 1212	Nike Orion	-	NASA 31.25GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WWW-PFRR	-	-
1982-S44	2444993.01	1982 Jan 23 1213	Nike Orion	-	NASA 31.19GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	SRctCon6	-	-
1982-S45	2444994.03	1982 Jan 24 1245	Nike Orion	-	NASA 31.24GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WWW-PFRR	-	-
1982-S47	2444996.66	1982 Jan 27 0352	Black Brant 8C	-	NASA 27.45UE	0.000	GSFC	SS	-	UMN/P.Kellogg	Ionos active	ESA-SP183-277	GRL11,1176	-
1982-S58	2445020.17	1982 Feb 19 1600	Nike Orion	-	NASA 31.23UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	www.phyast.pitt.edu	-	-
1982-S78	2445041.50	1982 Mar 13	Aerobee 350	-	NASA 17.18DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WISR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-S105	2445074.81	1982 Apr 15 0720	Nike Tomahawk	-	NASA 18.1028GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1982-S108	2445075.81	1982 Apr 16 0732	Nike Tomahawk	-	NASA 18.1029GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1982-S106	2445076.76	1982 Apr 17 0615	Black Brant 8C	-	NASA 27.59GG	0.000	GSFC	SS	-	GSFC/Stecher	UV Astron	ApJ292,687	-	-
1982-S130	2445142.50	1982 Jun 22	Black Brant 8C	-	NASA 27.68AH	0.000	GSFC	SS	-	LASL/Blake	XR Astron	WISR	-	-
1982-M05	2445144.15	1982 Jun 23 1540	Nike Orion	-	NASA 31.30GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WI-PR82-3	-	-
1982-M06	2445157.88	1982 Jul 7 0901	Nike Orion	-	NASA 31.31GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WI-PR82-4	-	-
1982-S136	2445164.19	1982 Jul 13 1630	Black Brant 8C	-	NASA 27.54CS	0.000	GSFC	SS	-	LPARL/LPSP/Bruner,Bonnet	Solar UV,X	AAp162,292	ASR8,11,156	-
1982-S137	2445165.50	1982 Jul 15	Nike Orion	-	NASA 31.15UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WISR	-	-
1982-S140	2445170.50	1982 Jul 20	Black Brant 8C	-	NASA 27.53US	0.000	GSFC	SS	-	HAO/HCO/Munro,Parkinson	Solar Opt/Solar UV	WISR	-	-
1982-S145	2445185.46	1982 Aug 3 2302:00	Nike Orion	-	SSC S37 CAMP-N	0.000	SSC	SS	-	BERN/UIO/	Aeronomy	Sven	ASR4,4,157	-
1982-S144	2445185.47	1982 Aug 3 2319:10	Nike Orion	-	DLR K-NO-115	0.000	DLR	SS	-	MPIK/	Tech/Aeron	Moraba	ssc.se	-
1982-S146	2445185.48	1982 Aug 3 2332:00	Nike Orion	-	SSC S37 CAMP-P	0.000	SSC	SS	-	BERN/UIO/Kopp,Bjorn	Aeronomy	ESA-SP183	ASR4,4,157	-
1982-S147	2445185.49	1982 Aug 3 2348:30	Nike Orion	-	SSC S37 SOAP/1	0.000	SSC	SS	-	STO/	Aeronomy	ESA-SP183	-	-
1982-S142	2445185.51	1982 Aug 4 0016:00	Nike Orion	-	-	0.000	SSC	SS	-	AFGL/UCL/Philbrick	Aeronomy	ASR4,4,153	ESA-SP183	-
1982-S150	2445191.12	1982 Aug 9 1500	Nike Orion	-	NASA 31.34UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	www.phyast.pitt.edu	-	-
1982-S151	2445192.22	1982 Aug 10 1716	Black Brant 8C	-	NASA 27.76UL	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	ApplOpt23,2327	JGR91,A6,7089	-
1982-S152	2445193.52	1982 Aug 12 0030:15	Nike Orion	-	SSC S37 SOAP/2	0.000	SSC	SS	-	STO/	Aeronomy	Sven	ESA-SP183	-
1982-S159	2445221.40	1982 Sep 8 2142	Black Brant 8B	-	GL A19.124-1	0.000	AFGL	SS	-	AFCRL/Narcisi	Ionos	WDCRF	AFCRL	-
1982-S164	2445226.38	1982 Sep 13 2105	Black Brant 8B	-	GL A19.124-2	0.000	AFGL	SS	-	AFCRL/Narcisi	Ionos	WDCRF	AFCRL	-
1982-S172	2445248.13	1982 Oct 5 1510:24	Nike Tomahawk	-	Ferdinand 61	0.000	NTNF	SS	-	NDRE/MPAE/Grandal	Ionospheric/Active	WDCRF	-	-
1982-S180	2445265.76	1982 Oct 23 0617:08	Nike Tomahawk	-	Ferdinand 60	0.000	NTNF	SS	-	NDRE/MPAE/Grandal	Ionospheric/Active	WDCRF	ESA-SP152-231	-
1982-S181	2445265.83	1982 Oct 23 0800	Black Brant 8C	-	NASA 27.48UG	0.000	GSFC	SS	-	UCO/Snow	UV Astron	WISR	-	-
1982-S190	2445288.83	1982 Nov 15 0800	Aerobee 350	-	NASA 17.19DG	0.000	GSFC	SS	-	NRL/Carruthers	UV Astron	WISR	-	-
1982-A34	2445290.27	1982 Nov 16 1830	Black Brant 8C	-	NASA 27.73US	0.000	GSFC	SF	U	UCO/Rottman	Solar	WISR	-	-
1982-S195	2445305.15	1982 Dec 1 1530:24	Nike Tomahawk	-	Ferdinand 59	0.000	NTNF	SS	-	NDRE/MPAE/Grandal	Ionospheric/Active	WDCRF	AND	-
1982-S199	2445318.10	1982 Dec 14 1422:09	Nike Tomahawk	-	Ferdinand 58	0.000	NTNF	SS	-	NDRE/MPAE/Grandal	Ionospheric/Active	WDCRF	AND	-
1983-S62	2445393.19	1983 Feb 27 1633	Nike Orion	-	NASA 31.28UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WISR	-	-
1983-S68	2445402.19	1983 Mar 8 1635	Nike Orion	-	NASA 31.26GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	WISR	-	-
1983-S69	2445402.63	1983 Mar 9 0306	Nike Orion	-	NASA 31.27GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	WISR	-	-
1983-S70	2445402.64	1983 Mar 9 0327	Nike Orion	-	NASA 31.32GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1983-S71	2445402.87	1983 Mar 9 0857	Nike Orion	-	NASA 31.33GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1983-S74	2445406.21	1983 Mar 12 1709	Nike Orion	-	NASA 31.29UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WISR	-	-
1983-S90	2445444.33	1983 Apr 19 2000	Aerobee 170	-	GL A04.902	0.000	AFGL	SS	-	AFCRL/Heroux	Ionos/Solar EUV	WDCRF	AFCRL	-
1983-S98	2445466.74	1983 May 12 0546:56	Black Brant 8B	-	AAF-VIIIB-8	0.000	NRCC	SS	-	NRCC/Yau	Auroral/Ionos/Release	FC	WDCRF	-
1983-S100	2445468.79	1983 May 14 0655	Black Brant 8C	-	NASA 27.67UH	0.000	GSFC	SS	-	CAL/Ku	XR Astron	WISR	-	-
1983-S114	2445501.79	1983 Jun 16 0651	Nike Hydac	-	GL A11.074	0.000	AFGL	SS	-	AFCRL/Philbrick	Aeron	WDCRF	AFCRL	-
1983-S116	2445502.88	1983 Jun 17 0900	Black Brant 8C	-	NASA 27.72NP	0.000	GSFC	SS	-	MSFC/Poorman	Micrograv	WISR	-	-
1983-S123	2445514.69	1983 Jun 29 0435	Black Brant 8C	-	NASA 27.27UH	0.000	GSFC	SS	-	STAN/Walker	XR Astron	WISR	-	-
1983-S130	2445541.05	1983 Jul 25 1315	Black Brant 8C	-	NASA 27.81US	0.000	GSFC	SS	-	UCO/Rottman	Solar	WISR	-	-
1983-S145	2445554.75	1983 Aug 8 0600	Black Brant 8C	-	NASA 27.61UE	0.000	GSFC	SS	-	USU/Raitt	Plasma	WISR	-	-
1983-S147	2445563.22	1983 Aug 16 1721	Black Brant 8C	-	NASA 27.79UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron/Solar EUV	JGR102,11557	WISR/JGR91,7089	-
1983-S152	2445577.12	1983 Aug 30 1500	Nike Orion	-	NASA 31.35UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1983-S161	2445585.12	1983 Sep 7 1500	Nike Orion	-	NASA 31.40UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1983-S166	2445598.20	1983 Sep 20 1651	Black Brant 8C	-	NASA 27.56GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar EUV	WISR	serts.gsfc.nasa.gov	-
1983-S185	2445614.84	1983 Oct 7 0805	Black Brant 8B	-	NASA 27.69UG	0.000	GSFC	SS	-	UCO/Snow	UV Astron	WISR	-	-
1983-S186	2445614.94	1983 Oct 7 1030	Black Brant 8B	-	NASA 27.80UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1983-S200	2445647.72	1983 Nov 9 0515	Nike Tomahawk	-	GL A08.708-2	0.000	AFGL	SS	-	AFCRL/Narcisi,Vickery	Plasma release	WDCRF	JGR91,A1,8937	-
1983-S202	2445655.95	1983 Nov 17 1041	Nike Orion	-	NASA 31.36GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1983-S203	2445657.95	1983 Nov 19 1041	Nike Orion	-	NASA 31.37GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1983-S204	2445657.95	1983 Nov 19 1046	Nike Orion	-	NASA 31.39GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1983-S209	2445676.25	1983 Dec 7 1800	Black Brant 8C	-	NASA 27.77UU	0.000	GSFC	SS	-	JPL/Willson	Aeron	WindAndSand831209	-	1100/WISR
1983-M03	2445676.27	1983 Dec 7 1823:00	Nike Orion	-	DLR A-NO-121	0.000	NTNF/DLR	SS	-	NDRE/BONN/Thrane,von Z.	Ionos	Moraba	AND	-
1984-S40	2445706.41	1984 Jan 6 2155	Nike Orion	-	DLR A-NO-122	0.000	NTNF/DLR	SS	-	NDRE/BONN/	Aeron	Moraba	-	-
1984-S42	2445713.33	1984 Jan 13 2000	Nike Orion	-	DLR A-NO-123	0.000	NTNF/DLR	SS	-	NDRE/BONN/	Ionos	Moraba	-	-
1984-S47	2445725.19	1984 Jan 25 1639	Nike Orion	-	DLR A-NO-124	0.000	NTNF/DLR	SS	-	NDRE/BONN/	Aeron	Moraba	-	-
1984-S50	2445731.27	1984 Jan 31 1831	Nike Orion	-	DLR A-NO-125	0.000	NTNF/DLR	SS	-	WUPP/NDRE/BONN/	Ionos	Moraba	-	-
1984-S51	2445731.29	1984 Jan 31 1853	Nike Orion	-	MADAME 1	0.000	NTNF	SS	-	UIO/OSLO/Holtet	Aeron	WDC	-	-
1984-S03	2445731.30	1984 Jan 31 1915:00	Nike Orion	-	SSC S39/1	0.000	SSC	SS	-	MISU/RAL/UIO/Witt	Aeronomy	ESRLV	ESA84	-
1984-S56	2445740.61	1984 Feb 10 0240	Nike Orion	-	DLR A-NO-126	0.000	NTNF/DLR	SS	-	WUPP/NDRE/BONN/	Ionos	Moraba	-	-
1984-S04	2445740.62	1984 Feb 10 0300:00	Nike Orion	-	SSC S39/2	0.000	SSC	SS	-	MISU/RAL/UIO/Witt	Aeronomy	Sven	ESA84	-
1984-S57	2445740.63	1984 Feb 10 0305	Nike Orion	-	MADAME 2	0.000	NTNF	SS	-	UIO/OSLO/Holtet	Aeron	WDC	-	-
1984-S59	2445746.56	1984 Feb 16 0120	Nike Orion	-	DLR A-NO-127	0.000	NTNF/DLR	SS	-	NDRE/BONN/	Aeron	Moraba	-	-
1984-S60	2445748.52	1984 Feb 18 0022	Nike Orion	-	DLR A-NO-128	0.000	NTNF/DLR	SS	-	NDRE/BONN/	Aeron	Moraba	-	-
1984-S61	2445749.19	1984 Feb 18 1629:30	Nike Orion	-	NASA 31.44UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1984-S63	2445754.01	1984 Feb 23 1210	Nike Orion	-	NASA 31.38GE	0.000	GSFC	SS	-	GSFC/Maynard	Plasma	WISR	WIPR84-1	-
1984-M02	2445758.17	1984 Feb 27 1600:01	Nike Orion	-	NASA 31.43UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1984-S65	2445758.66	1984 Feb 28 0353:44	Black Brant 8C	-	ADD-VIIIC-10	0.000	NRCC	SS	-	NRCC/Jones	Auroral/Aeron/Ionos	FC	ESA-SP229-206	-
1984-S68	2445762.63	1984 Mar 3 0306:24	Black Brant 8C	-	ADD-VIIIC-9	0.000	NRCC	SS	-	NRCC/Jones	Auroral/Aeron/Ionos	FC	ESA-SP229-206	-
1984-S86	2445829.77	1984 May 9 0630	Aerobee 350	-	NASA 17.20UH	0.000	GSFC	SS	-	UWI/Kraushaar	XR Astron	WISR	ApJ308,L59	-
1984-S87	2445830.87	1984 May 10 0857	Nike Orion	-	NASA 31.41GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	WIPR84-7	-
1984-S95	2445871.05	1984 Jun 19 1305	Black Brant 8C	-	NASA 27.89US	0.000	GSFC	SS	-	UCO/Rottman	Solar	WISR	-	-
1984-S96	2445875.76	1984 Jun 24 0615	Black Brant 8B	-	NASA 27.84UG	0.000	GSFC	SS	-	UCO/Snow	UV Astron	WISR	ApJ325,402	-
1984-S108	2445935.88	1984 Aug 23 0911	Nike Orion	-	NASA 31.42GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	WIPR84-13	-
1984-S115	2445962.24	1984 Sep 18 1745	Nike Orion	-	NASA 31.46GU	0.000	GSFC	SS	-	GSFC/Mentall	Aeron	WISR	-	-
1984-S117	2445962.66	1984 Sep 19 0346	Black Brant 8B	-	NASA 27.91UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1984-S122	2445979.79	1984 Oct 6 0700	Black Brant 8C	-	NASA 27.71UG	0.000	GSFC	SS	-	PRIN/Jenkins	FUV Astron	WISR	-	-
1984-S133	2446045.31	1984 Dec 10 1920	Black Brant 8C	-	NASA 27.101GU	0.000	GSFC	SS	-	GSFC/Mentall	Solar UV	WISR	-	-
1985-M01	2446140.23	1985 Mar 15 1737:59	Nike Orion	-	NASA 31.50UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1985-S61	2446145.45	1985 Mar 20 2244	Nike Tomahawk	-	NASA 18.219UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1985-S62	2446147.23	1985 Mar 22 1733	Nike Orion	-	NASA 31.49UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1985-S63	2446151.75	1985 Mar 27 0607:11	Black Brant 8C	-	NASA 27.98UL	0.000	GSFC	SS	-	PITT/Zipf	Aeron	WISR	-	-
1985-S64	2446154.21	1985 Mar 29 1703:20	Nike Orion	-	NASA 31.48GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1985-S67	2446157.21	1985 Apr 1 1657	Nike Orion	-	NASA 31.47GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1985-S70	2446175.83	1985 Apr 20 0750	Black Brant 8C	-	NASA 27.82UG	0.000	GSFC	SS	-	PRIN/Jenkins	FUV Astron	WISR	-	-
1985-S86	2446230.76	1985 Jun 14 0620	Black Brant 8C	-	GL A19.250	0.000	AFGL	SS	-	AFCRL/Cohen	Active Plasma	AFGL-TR-87-0139	AFCRL	-
1985-S96	2446241.24	1985 Jun 24 1746	Nike Orion	-	NASA 31.53UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WISR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-S97	2446243.24	1985 Jun 26 1746	Nike Orion	-	NASA 31.54UE	0.000	GSFC	SS	-	UIUC/Smith	Plasma	WISR	-	-
1985-S112	2446315.12	1985 Sep 6 1500	Nike Orion	-	NASA 31.55UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1985-S116	2446318.50	1985 Sep 10 0003:07	Nike Orion	-	NASA 31.51GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	-
1985-S117	2446321.12	1985 Sep 12 1450	Nike Orion	-	NASA 31.56UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1985-S130	2446364.22	1985 Oct 25 1720	Black Brant 8C	-	NASA 27.90CS	0.000	GSFC	SS	-	LPARL/LPSP/Bruner,Bonnet	Solar UV/X	WISR	ASR6,8,273	-
1986-S19	2446462.74	1986 Feb 1 0540	Black Brant 8C	-	NASA 27.103UH	0.000	GSFC	SS	-	UWI/McCammon,Kraushaar	XR Astron	WISR	ApJ367,182	-
1986-S28	2446497.26	1986 Mar 7 1812:39	Black Brant 8C	-	NASA 27.104GU	0.000	GSFC	SS	-	GSFC/Mentall	Solar UV	WISR	-	-
1986-S39	2446539.15	1986 Apr 18 1535	Nike Orion	-	NASA 31.59UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1986-S40	2446542.80	1986 Apr 22 0711	Black Brant 8B	-	NASA 27.086UG	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron	WISR	-	-
1986-S42	2446546.06	1986 Apr 25 1330	Nike Orion	-	NASA 31.58UU	0.000	GSFC	SF	U	PITT/Zipf	Aeronomy	WISR	-	-
1986-S69	2446638.44	1986 Jul 26 2237:20	Nike Orion	-	NASA 31.57GE	0.000	SSC/GSFC	SS	-	GSFC/Goldberg	Plasma	WISR	-	WISR: 2234:19
1986-S70	2446638.46	1986 Jul 26 2303	Nike Orion	-	NASA 31.60UE	0.000	SSC/GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1986-S71	2446638.49	1986 Jul 26 2344:40	Nike Orion	-	NASA 31.61UE	0.000	SSC/GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1986-S102	2446719.22	1986 Oct 15 1710	Black Brant 8C	-	NASA 27.75GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar EUV	WISR	-	-
1986-S103	2446726.33	1986 Oct 22 2000	Black Brant 8C	-	NASA 27.99US	0.000	GSFC	SS	-	SAO/Golub	Solar	WISR	WIPR86-48	-
1987-S64	2446875.79	1987 Mar 21 0656	Black Brant 8C	-	GL A19.427	0.000	AFGL	SS	-	AFCRL/Weber	Plasma Ba	WDCRF	AFCRL	-
1987-S66	2446875.81	1987 Mar 21 0721	Nike Tomahawk	-	NASA 18.220UE	0.000	GSFC	SS	-	CLEM/DMI/Larson	Plasma	WISR	-	-
1987-S73	2446879.27	1987 Mar 24 1830	Nike Orion	-	NASA 31.62UE	0.000	GSFC	SS	-	UIUC/Bowhill	Plasma	WISR	-	-
1987-S117	2447004.23	1987 Jul 27 1727:13	Black Brant 8C	-	NASA 27.107US	0.000	GSFC	SS	-	UCO/Rottman	Solar UV	WISR	-	-
1987-S126	2447015.13	1987 Aug 7 1502:09	Black Brant 8C	-	NASA 27.112UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1987-S127	2447022.19	1987 Aug 14 1629	Nike Orion	-	GL A12.629	0.000	AFGL	SS	-	AFCRL/Ballenthin	Aeron	WDCRF	AFCRL	-
1987-S147	2447067.92	1987 Sep 29 1000	Black Brant 8B	-	NASA 27.106UG	0.000	GSFC	SS	-	UCB/Bowyer	EUV Astron	WISR	ApJ353,612	-
1987-S151	2447083.95	1987 Oct 15 1052:00	Nike Orion	-	DLR A-NO-148	0.000	NDRE/DLR	SS	-	NDRE/BONN/Thrane,vonZahn	Aeron	ESA-SP291-181	-	-
1987-S153	2447083.95	1987 Oct 15 1052:40	Nike Orion	-	NASA 31.63UE	0.000	GSFC	SS	-	UIUC/Bowhill	Aeron	WISR	ESA-SP291-181	-
1987-S158	2447090.40	1987 Oct 21 2133:00	Nike Orion	-	DLR A-NO-149 F-75	0.000	DLR	SS	-	NDRE/Thrane	Aeron	ESA-SP291-181	Moraba	-
1987-S159	2447090.40	1987 Oct 21 2133:20	Nike Orion	-	DLR A-NO-150 F-77	0.000	DLR	SS	-	NDRE/BONN/Thrane,vonZahn	Aeron	Moraba	-	-
1987-S160	2447090.40	1987 Oct 21 2133:40	Nike Orion	-	NASA 31.66GE	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WISR	ESA-SP291-181	-
1987-S162	2447090.40	1987 Oct 21 2134:20	Nike Orion	-	NASA 31.64GE	0.000	GSFC	SS	-	UIUC/Bowhill	Aeron	WISR	-	-
1987-S163	2447092.25	1987 Oct 23 1805:00	Black Brant 8C	-	NASA 27.92US	0.000	GSFC	SS	-	STAN/MSFC/Walker	Solar X	WISR	WIPR87-42	-
1987-S165	2447096.51	1987 Oct 28 0021:00	Nike Orion	-	NASA 31.67GE	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	WDCRF	ESA-SP291-181	-
1987-S169	2447111.51	1987 Nov 12 0021:00	Nike Orion	-	DLR A-NO-151	0.000	DLR	SS	-	NDRE/Thrane	Test/Aeron/Ionos	WDCRF	-	-
1987-S171	2447111.51	1987 Nov 12 0021:20	Nike Orion	-	DLR A-NO-152	0.000	DLR	SS	-	NDRE/BONN/Thrane,vonZahn	Aeron	ESA-SP291-181	Moraba	-
1987-S173	2447111.52	1987 Nov 12 0022:00	Nike Orion	-	NASA 31.65UE	0.000	GSFC	SS	-	UIUC/Bowhill	Aeron	WDCRF	-	-
1988-S90	2447283.67	1988 May 2 0400	Black Brant 8B	-	DLR K-NBB5-155	0.000	MBB	SS	-	MBB/ESTEC/	Micrograv	Moraba	Chesser	-
1988-S91	2447285.12	1988 May 3 1500	Nike Orion	-	NASA 31.69UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1988-S92	2447287.69	1988 May 6 0430	Black Brant 8B	-	DLR K-NBB5-156	0.000	MBB	SS	-	MBB/ESTEC/	Micrograv	Moraba	Chesser	-
1988-S94	2447292.10	1988 May 10 1430	Nike Orion	-	NASA 31.68UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1988-S105	2447369.74	1988 Jul 27 0547:43	Black Brant 8C	-	NASA 27.120UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1988-S118	2447419.94	1988 Sep 15 1040	Black Brant 8C	-	NASA 27.110UL	0.000	GSFC	SS	-	UCO/Barth	UV Astron	WISR	-	-
1988-S145	2447502.69	1988 Dec 7 0440	Black Brant 8C	-	NASA 27.121UH	0.000	GSFC	SS	-	UWI/McCammon	XR Astron	WISR	-	-
1989-S45	2447604.17	1989 Mar 18 1600	Nike Orion	-	NASA 31.73UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1989-S47	2447608.17	1989 Mar 22 1601:31	Nike Orion	-	NASA 31.74UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1989-S72	2447725.31	1989 Jul 17 1922:26	Black Brant 8C	-	NASA 27.122UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	-	-
1989-S73	2447731.86	1989 Jul 24 0839:59	Black Brant 8C	-	SDIO Black Star 1	0.000	SDIO	SS	-	SDIO/Theriault	Target?	WWW-PFRR	-	-
1989-S82	2447751.88	1989 Aug 13 0900	Black Brant 8C	-	SDIO Black Star 2	0.000	SDIO	SS	-	SDIO/Theriault	Target?	WWW-PFRR	-	-
1989-S108	2447850.60	1989 Nov 20 0230	Black Brant 8B	-	NASA 27.123UG	0.000	GSFC	SS	-	UCO/Cash	UV Astron	WISR	ASR11,11,29	-
1990-S28	2447912.75	1990 Jan 21 0605	Black Brant 8C	-	-	0.000	CSA	SS	-	UBC/Gush	Submm Astron	PRL65,537	Chesser	-
1990-S29	2447913.93	1990 Jan 22 1020	Nike Orion	-	Ferdinand 81	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S40	2447942.70	1990 Feb 20 0454:00	Nike Orion	-	DLR C-NO-175	0.000	DLR	SS	-	OSLO/BONN/Blix,Lubken	Aeron	Moraba	ESA-SP317-381	-
1990-S41	2447942.90	1990 Feb 20 0941	Nike Orion	-	SSC RSM/ANODE	0.000	SSC	SS	-	STO/Witt	Aeron	ESA-SP317-381	Sven	-
1990-S46	2447948.31	1990 Feb 25 1920:00	Nike Orion	-	Ferdinand 82	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S47	2447948.47	1990 Feb 25 2321:20	Nike Orion	-	SSC RSG/ATOMIC 1	0.000	SSC	SS	-	STO/Witt	Aeron	Sven	ESA-SP317-381	-
1990-S50	2447950.54	1990 Feb 28 0051:59	Nike Orion	-	SSC RSG/ATOMIC 2	0.000	SSC	SS	-	STO/Witt	Aeron	ESA-SP317-381	Sven	-
1990-S53	2447956.61	1990 Mar 6 0241	Nike Orion	-	Ferdinand 83	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S54	2447956.72	1990 Mar 6 0518:30	Nike Orion	-	DLR C-NO-176	0.000	DLR	SS	-	OSLO/BONN/Blix,Lubken	Aeron	Moraba	ESA-SP317-381	-
1990-S58	2447959.45	1990 Mar 8 2253	Nike Orion	-	Ferdinand 84	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S59	2447959.52	1990 Mar 9 0025	Nike Orion	-	Ferdinand 85	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S61	2447962.36	1990 Mar 11 2042	Nike Orion	-	Ferdinand 86	0.000	NDRE	SS	-	OSLO/BONN/Blix,Lubken	Aeron	ESA-SP317-381	-	-
1990-S63	2447963.68	1990 Mar 13 0421	Nike Orion	-	DLR C-NO-177	0.000	DLR	SS	-	OSLO/BONN/Blix,Lubken	Aeron	Moraba	ESA-SP317-381	-
1990-S67	2447972.92	1990 Mar 22 1003:23	Nike Orion	-	NASA 31.70UE	0.000	GSFC	SS	-	HOUS/Behring	Plasma	WISR	-	-
1990-S98	2448040.71	1990 May 29 0509:00	Nike Orion	-	-	0.000	SSC	SS	-	SAAB/	Test	Sven	ESA-SP317-253	-
1990-S104	2448088.79	1990 Jul 16 0700	Black Brant 8C	-	NASA 27.124UG	0.000	GSFC	SS	-	CAL/Martin	UV Astron	WISR	ApJ396,L103	-
1991-S99	2448372.25	1991 Apr 25 1800	Nike Orion	-	NASA 31.79UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1991-S102	2448377.30	1991 Apr 30 1919	Nike Orion	-	NASA 31.80UU	0.000	GSFC	SF	U	PITT/Zipf	Aeronomy	WISR	-	-
1991-S133	2448469.57	1991 Aug 1 0139:00	Nike Orion	-	NASA 31.77UE NLC-91	0.000	GSFC	SS	-	PSU/Mitchell	Aeron	ASR14,9,113	ASR14,9,113	-
1991-S184	2448469.57	1991 Aug 1 0140:00	Nike Orion	-	DLR K-NO-188 NLC-91	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	ASR14,9,113	-
1991-S134	2448478.47	1991 Aug 9 2315:00	Nike Orion	-	DLR K-NO-189 NLC-91	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	ASR14,9,113	-
1991-S182	2448478.47	1991 Aug 9 2315:15	Nike Orion	-	NLC-91 N-A-D14	0.000	SSC	SS	-	STO/Witt	Aeronomy	ASR14,9,113	-	-
1991-S185	2448478.49	1991 Aug 9 2340:00	Nike Orion	-	NASA 31.78UE NLC-91	0.000	GSFC	SS	-	PSU/Mitchell	Aeronomy	ASR14,9,113	ASR14,9,113	-
1991-S183	2448478.57	1991 Aug 10 0137:00	Nike Orion	-	NLC-91 N-A-D20	0.000	SSC	SS	-	STO/Witt	Aeronomy	ASR14,9,113	-	-
1991-S145	2448506.41	1991 Sep 6 2150	Black Brant 8C	-	NASA 27.129UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	-	-
1991-S151	2448517.49	1991 Sep 17 2343	Nike Orion	-	DLR A-NO-190	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1991-S152	2448520.37	1991 Sep 20 2048	Nike Orion	-	DLR A-NO-191	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1991-S153	2448520.44	1991 Sep 20 2240	Nike Orion	-	DLR A-NO-192	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1991-S158	2448530.37	1991 Sep 30 2055:15	Nike Orion	-	DLR A-NO-193	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1991-S160	2448533.44	1991 Oct 3 2227:30	Nike Orion	-	DLR A-NO-194	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1991-S161	2448533.51	1991 Oct 4 0008	Nike Orion	-	DLR A-NO-195	0.000	DLR	SS	-	IAP/Lubken	Aeron	Moraba	-	-
1992-S23	2448685.08	1992 Mar 3 1357:30	Nike Tomahawk	-	NASA 18.221UE	0.000	GSFC	SS	-	CLEM/Larsen	Plasma	JGR100,A9,17265	-	-
1992-S24	2448685.09	1992 Mar 3 1406:48	Black Brant 8C	-	NASA 27.130CE	0.000	GSFC	SS	-	AERO/Kayser	Plasma	JGR100,A9,17265	-	-
1992-S25	2448685.12	1992 Mar 3 1457	Nike Tomahawk	-	NASA 18.222UE	0.000	GSFC	SS	-	CLEM/Larsen	Plasma	JGR100,A9,17265	-	-
1992-S27	2448688.08	1992 Mar 6 1357:30	Nike Tomahawk	-	NASA 18.223UE	0.000	GSFC	SS	-	CLEM/Larsen	Plasma	WISR	-	-
1992-S28	2448694.45	1992 Mar 12 2242	Nike Orion	-	NASA 31.83UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S31	2448697.45	1992 Mar 15 2246	Nike Orion	-	NASA 31.82UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S42	2448765.50	1992 May 23 0000	Nike Orion	-	NASA 31.84UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S44	2448768.49	1992 May 25 2352	Nike Tomahawk	-	NASA 18.224UE	0.000	GSFC	SS	-	GSFC/Duncan	Plasma	WISR	TM-108494	-
1992-S45	2448770.02	1992 May 27 1227	Nike Orion	-	NASA 31.85UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1992-S65	2448828.07	1992 Jul 24 1336	Black Brant 8C	-	NASA 27.133UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	-	-
1992-S73	2448852.89	1992 Aug 18 0920	Nike Improved Orion	-	DLR K-NO2-198	0.000	DLR	SS	-	DLR/	Test	Moraba	-	-
1992-S75	2448856.24	1992 Aug 21 1746	Nike Orion	-	NASA 31.81UU	0.000	GSFC	SS	-	HOUS/Sheldon	Aeron	WISR	-	-
1992-S77	2448861.13	1992 Aug 26 1510	Nike Orion	-	NASA 31.93UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S78	2448862.27	1992 Aug 27 1830	Black Brant 8C	-	NASA 12.045WT	0.000	GSFC	SS	-	WFF/Ballance	Test	WISR	-	-
1992-S79	2448866.54	1992 Sep 1 0100	Nike Orion	-	NASA 31.92UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S98	2448963.17	1992 Dec 6 1600	Nike Orion	-	NASA 31.94UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1992-S101	2448968.45	1992 Dec 11 2245	Nike Orion	-	NASA 31.95UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S20	2449054.51	1993 Mar 8 0015	Nike Orion	-	NASA 31.97UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S22	2449057.07	1993 Mar 10 1338	Nike Orion	-	NASA 31.96UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S31	2449114.15	1993 May 6 1538	Black Brant 8C	-	NASA 27.136UE	0.000	GSFC	SS	-	UWA/Parks	Plasma	WWW-PFRR	-	-
1993-S32	2449121.55	1993 May 14 0110	Nike Orion	-	NASA 31.99UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S33	2449126.53	1993 May 19 0047	Nike Orion	-	NASA 31.98UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S35	2449133.90	1993 May 26 0943	Nike Orion	-	DLR C-NO-202	0.000	DLR	SS	-	AESPC/	Test?	Moraba	-	-
1993-S51	2449200.57	1993 Aug 1 0146	Nike Orion	?	-	0.000	NDRE?	SS	-	IAP/Lubken?	Aeron	ESA-SP530-328	-	-
1993-S52	2449201.52	1993 Aug 2 0023	Nike Orion	-	DLR K-NO-203 NLC-93	0.000	DLR/SSC	SS	-	STO/Witt	Aeron	Moraba	WWW-SSC	-
1993-S53	2449201.54	1993 Aug 2 0102	Nike Orion	-	DLR K-NO-204 NLC-93	0.000	DLR/SSC	SS	-	STO/Witt	Aeron	Moraba	WWW-SSC	-
1993-S58	2449241.17	1993 Sep 10 1600	Nike Orion	-	NASA 31.100UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S59	2449244.25	1993 Sep 13 1800	Nike Orion	-	NASA 31.101UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1993-S72	2449320.90	1993 Nov 29 0930	Nike Improved Orion	-	DLR K-NO2-206	0.000	DLR	SS	-	DASARI/	Micrograv	Moraba	ssc.se	-
1994-S08	2449383.42	1994 Jan 30 2200	Black Brant 8C	-	NASA 27.137UE	0.000	GSFC	SS	-	UMI/Sharp	Plasma	WISR	-	-
1994-S12	2449396.05	1994 Feb 12 1308	Nike Tomahawk	-	NASA 18.233UE	0.000	GSFC	SS	-	CLEM/Larson	Plasma	WISR	JGR102,A5,9749	-
1994-S13	2449396.05	1994 Feb 12 1312	Nike Tomahawk	-	NASA 18.232UE	0.000	GSFC	SS	-	CLEM/Larson	Plasma	WISR	-	-
1994-S14	2449396.05	1994 Feb 12 1316	Black Brant 8C	-	NASA 27.131CE	0.000	GSFC	SS	-	AERO/Christensen	Plasma	WISR	-	-
1994-S21	2449418.88	1994 Mar 7 0911:47	Nike Orion	-	NASA 31.071UE	0.000	GSFC	SF	U	HOUS/Bering	Plasma	WISR	-	-
1994-S32	2449475.82	1994 May 3 0740	Nike Improved Orion	-	DLR K-NO2-208	0.000	DLR	SS	-	DASARI/	Micrograv	Moraba	ssc.se	-
1994-S41	2449525.60	1994 Jun 22 0220	Nike Orion	-	NASA 31.087UE	0.000	GSFC	SS	-	PSU/Croskey	Plasma	WISR	-	-
1994-S47	2449549.52	1994 Jul 16 0023	Nike Orion	-	NASA 31.086UE	0.000	GSFC	SS	-	PSU/Croskey	Ionos	WISR	-	-
1994-S51	2449562.44	1994 Jul 28 2239	Nike Orion	-	DLR A-NO-210	0.000	DLR	SS	-	NDRE/BONN/	Ionos	Moraba	ESA-SP370	-
1994-S52	2449564.54	1994 Jul 31 0050:33	Nike Orion	-	DLR A-NO-211	0.000	DLR	SS	-	NDRE/BONN/	Ionos	Moraba	ESA-SP370	-
1994-S54	2449576.54	1994 Aug 12 0053	Nike Orion	-	DLR A-NO-212	0.000	DLR	SS	-	NDRE/BONN/	Ionos	Moraba	ESA-SP370	-
1994-S57	2449584.13	1994 Aug 19 1508:00	Nike Orion	-	NASA 31.102GE	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	JGR102,26179	ESA-SP397-381	-
1994-S58	2449584.60	1994 Aug 20 0218:00	Nike Orion	-	NASA 31.103GE	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	JGR102,26179	ESA-SP397-381	-
1994-S60	2449589.07	1994 Aug 24 1339:00	Nike Orion	-	NASA 31.105GE	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	JGR102,26179	ESA-SP397-381	-
1994-S61	2449589.57	1994 Aug 25 0143:30	Nike Orion	-	NASA 31.104GE	0.000	GSFC	SS	-	GSFC/Goldberg	Ionos	JGR102,26179	ESA-SP397-381	-
1994-S64	2449608.15	1994 Sep 12 1534	Nike Orion	-	NASA 31.107UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1994-S66	2449611.13	1994 Sep 15 1500:01	Nike Orion	-	NASA 31.108UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1994-S70	2449619.39	1994 Sep 23 2115	Nike Tomahawk	-	NASA 18.226UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WISR	-	-
1994-S71	2449619.39	1994 Sep 23 2117	Nike Tomahawk	-	NASA 18.225UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WISR	-	-
1994-S72	2449620.39	1994 Sep 24 2115	Nike Tomahawk	-	NASA 18.228UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WISR	-	-
1994-S73	2449620.39	1994 Sep 24 2117	Nike Tomahawk	-	NASA 18.227UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WISR	-	-
1995-S09	2449751.14	1995 Feb 2 1527:20	Black Brant 8C	-	NASA 27.138CE	0.000	GSFC	SS	-	AERO/Christensen	Ionos	WISR	Chesser	-
1995-S10	2449751.16	1995 Feb 2 1551:41	Nike Tomahawk	-	NASA 18.230UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WISR	WWW-PFRR	-
1995-S21	2449792.35	1995 Mar 15 2021	Nike Orion	-	NASA 31.106NP	0.000	GSFC	AS	-	NAXS/Schulze	Test	WISR	-	-
1995-S23	2449798.12	1995 Mar 21 1500	Nike Orion	-	NASA 31.112UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	Pittsburgh	-
1995-S26	2449804.15	1995 Mar 27 1540	Nike Orion	-	NASA 31.113UU	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1995-S36	2449836.75	1995 Apr 29 0555	Nike Improved Orion	-	DLR K-NO2-214	0.000	DLR	SS	-	DASARI/	Micrograv	Moraba	-	-
1995-S37	2449839.73	1995 May 2 0535	Nike Improved Orion	-	DLR K-NO2-215	0.000	DLR	SS	-	DASARI/	Micrograv	Moraba	-	-
1995-S51	2449924.90	1995 Jul 26 0933:31	Nike Orion	-	NASA 31.109UE	0.000	GSFC	SS	-	USU/Espy	Ionos	WWW-PFRR	WI	-
1995-S53	2449937.85	1995 Aug 8 0820:35	Nike Orion	-	NASA 31.110UE	0.000	GSFC	SS	-	USU/Espy	Ionos	WWW-PFRR	WI	-
1995-S79	2450046.08	1995 Nov 24 1400:00	Nike Tomahawk	-	NASA 18.231UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
1995-S80	2450048.84	1995 Nov 27 0803:00	Nike Tomahawk	-	NASA 18.229UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	WWW-WFF	-	-
1995-S81	2450048.84	1995 Nov 27 0807:24	Black Brant 8C	-	NASA 27.139CE	0.000	GSFC	SS	-	AERO/Christensen	Ionos	WWW-WFF	-	-
1995-S84	2450055.97	1995 Dec 4 1120:01	Black Brant 8C	-	NASA 27.132UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astronomy	WWW-WFF	-	-
1996-S26	2450238.71	1996 Jun 4 0506:00	Black Brant 8C	-	NASA 27.140UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astronomy	GSFC-Bldg2Wall	WWW-WFF	-
1996-S48	2450308.29	1996 Aug 12 1858	Nike Orion	-	NASA 31.114UP	0.000	GSFC	SS	-	COSG/Riddle	Aeron/Education	WWW-WFF	-	-
1998-S05	2450840.02	1998 Jan 26 1226	Nike Improved Orion	?	DLR K-NO2-230	0.000	SSC/DLR	SS	-	SSC/	Microgravity/Education	Moraba	WWW-SSC	-
1998-S14	2450855.90	1998 Feb 11 0942	Nike Improved Orion	-	DLR K-NO2-232	0.000	DLR	SS	-	DASARI/	Microgravity	Moraba	-	-
1998-S23	2450876.44	1998 Mar 3 2233	Nike Improved Orion	?	DLR K-NO2-233	0.000	SSC/DLR	SS	-	STO/Witt	Ionos	SN980316-10	WWW-SSC	-
1998-S24	2450879.39	1998 Mar 6 2126	Nike Improved Orion	?	DLR K-NO2-234	0.000	SSC/DLR	SS	-	STO/Witt	Ionos	SN980316-10	WWW-SSC	-
1998-S47	2450981.10	1998 Jun 16 1419	Nike Orion	-	NASA 31.111UP	0.000	GSFC	SS	-	CIN/Basciano	Aeron/Education	www.wff.nasa.gov	AIAA-98-0818	-
1998-S66	2451150.96	1998 Dec 3 1104	Nike Improved Orion	-	DLR K-NO2-237	0.000	SSC/DLR	SS	-	DASARI/	Microgravity	Moraba	-	-
1999-S18	2451265.88	1999 Mar 28 0900:00	Black Brant 8C	-	NASA 27.141UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astronomy	WWW-WFF	-	-
2000-S30	2451681.93	2000 May 17 1018:39	Nike Orion	-	NASA 31.122UP	0.000	GSFC	SS	-	PSU/Mitchell	Aeron	WWW-WFF	-	-
2000-S34	2451709.17	2000 Jun 13 1606:00	Nike Orion	-	NASA 31.121UP	0.000	GSFC	SS	-	BU/Chakrabarti	Aeron?	WWW-WFF	-	-
2000-S37	2451716.95	2000 Jun 21 1043:00	Nike Orion	-	NASA 31.120UP	0.000	GSFC	SS	-	UVT/Keller	Aeron?	WWW-WFF	-	-
2000-S44	2451742.76	2000 Jul 17 0617:00	Black Brant 8C	-	NASA 27.143UE	0.000	GSFC	SS	-	UMN/Wygant	Ionos	WWW-WFF	-	-
2002-S31	2452404.77	2002 May 10 0632:00	Nike Orion	-	NASA 31.124UE	0.000	GSFC	SS	-	PSU/Croskey	Aeron	ESA-SP530-395	-	-
2002-S33	2452410.77	2002 May 16 0626:00	Nike Orion	-	NASA 31.125UE	0.000	GSFC	SS	-	PSU/Croskey	Aeron	ESA-SP530-395	-	-
2003-S29	2452820.78	2003 Jun 30 0650	Black Brant 8B	-	NASA 27.144UE	0.000	GSFC	SS	-	UTD/Roddy,Earle	Aeron/Ionos	JGR112,A06312	www.wff.nasa.gov	-
2003-A17	2452972.00	2003 Nov 28 1205:30	Nike Improved Orion	-	-	0.000	NDRE	SF	U	OSLO/Moen	Plasma	www.rocketrange.no	ESA-SP530-543	-
2004-S39	2453252.37	2004 Sep 3 2055:10	Black Brant 8C	-	NASA 27.145UE	0.000	GSFC	SS	-	CORN/Gelinas	Ionos	wff.nasa.gov	-	-
2004-S47	2453265.88	2004 Sep 17 0902:01	Black Brant 8C	-	NASA 27.146UE	0.000	GSFC	SS	-	CORN/Gelinas	Ionos	wff.nasa.gov	-	-
2005-S03	2453391.17	2005 Jan 20 1600	Nike Improved Orion	-	NASA 12.062GT	0.000	GSFC	SS	-	NSROC/Krause	Test	wff.nasa.gov	-	-
2006-S52	2453987.43	2006 Sep 8 2217:00	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp?	Meteors/Dust	www.rocketrange.no	-	Sep 9 per AND?
2006-S55	2453996.38	2006 Sep 17 2106:46	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp?	Meteors/Dust	www.rocketrange.no	-	-
2007-S31	2454316.47	2007 Aug 3 2322:00	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	www.rocketrange.no	-	-
2008-S31	2454648.06	2008 Jun 30 1322	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	AeronEarthAI	www.rocketrange.no	-
2008-S33	2454655.39	2008 Jul 7 2124	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	AeronEarthAI	www.rocketrange.no	-
2008-S34	2454659.95	2008 Jul 12 1046	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	www.rocketrange.no	-	-
2008-S53	2454762.02	2008 Oct 22 1230	Nike Improved Orion	-	-	0.000	EUROL	SS	-	DLR/	Tech	www.ssc.se	-	-
2009-S24	2454973.94	2009 May 22 1032	Nike Improved Orion	-	-	0.000	SSC/DLR	SS	-	DLR/Ratke	Microgravity	www.ssc.se	-	-
2010-S60	2455496.93	2010 Oct 27 1015	Nike Improved Orion	-	-	0.000	SSC/DLR	SS	-	DLR/Kolbe,Meyer,Sperl	Microgravity	www.ssc.se	-	-
2010-S74	2455534.68	2010 Dec 4 0421	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	www.rocketrange.no	-	-
2010-S75	2455543.64	2010 Dec 13 0324:30	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	www.rocketrange.no	-	-
2010-S78	2455549.61	2010 Dec 19 0236	Nike Improved Orion	-	-	0.000	ARR/DLR	SS	-	IAP/Rapp	Meteors/Dust	www.rocketrange.no	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-S41	2455763.79	2011 Jul 21 0701:00	Nike Improved Orion	-	-	0.000	SSC	SS	-	MISU/Gumbel	Aeron	www.ssc.se	-	-
2012-S70	2456256.97	2012 Nov 25 1120	Nike Improved Orion	-	-	0.000	SSC/DLR	SS	-	DLR/Kolbe,Kargl,Sperl	Microgravity	www.ssc.se	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-S85	2448011.50	1990 May	Hwasong-7	-	-	[may be spurious]	-	-	-	TONGH	-	-	-	0?	-	-
1992-A11	2448773.50	1992 Jun	Hwasong-7	-	-	-	-	-	-	TONGH	-	-	-	0?	-	-
1993-S37	2449136.50	1993 May 29	Hwasong-7	-	-	-	-	-	-	TONGH	-	-	-	150?	500	-
1998-S33	2450909.50	1998 Apr 6	Ghauri	-	Hatf V	-	-	-	-	TILLA	-	-	-	150?	-	-
1998-A02	2451016.50	1998 Jul 22	Shahab 3	-	-	-	-	-	-	SHAHR	-	-	-	50?	-	-
1998-F04	2451056.63	1998 Aug 31 0307:00	Paektusan 1	-	-	Kwangmyongsong-1	-	-	-	TONGH	-	-	-	200?	-	-
1999-S25	2451282.73	1999 Apr 14 0535	Ghauri	-	Hatf-V/Ghauri II	-	-	-	-	TILLA	-	-	-	150?	-	-
2000-S43	2451740.50	2000 Jul 15	Shahab 3	-	-	-	-	-	-	MASHH	-	-	-	150?	-	-
2000-A10	2451808.50	2000 Sep 21	Shahab 3	-	Shahab-3D	-	-	-	-	SEM	-	-	-	1?	-	-
2000-S48	2451787.50	2000 Sep	Scud D	-	-	-	-	-	-	SYRIA	-	-	-	150?	-	-
2000-S53	2451810.50	2000 Sep 23	Scud D	-	-	-	-	-	-	SYRIA	-	-	-	150?	-	-
2002-S30	2452399.50	2002 May 5	Shahab 3	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2002-S34	2452419.65	2002 May 25 0330	Ghauri	-	Hatf-V/Ghauri II	-	-	-	-	TILLA?	-	-	-	150?	-	-
2002-S84	2452459.50	2002 Jul 4	Shahab 3	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2003-S56	2452790.50	2003 Jun	Shahab 3	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2004-S18	2453154.50	2004 May 29	Ghauri	-	Hatf-V	-	-	-	-	TILLA?	-	-	-	150?	-	-
2004-S21	2453160.50	2004 Jun 4	Ghauri	-	Hatf-V	-	-	-	-	TILLA?	-	-	-	150?	-	-
2004-S32	2453228.50	2004 Aug 11	Ghadr 1	-	Improved Shahab 3	-	-	-	-	SEMX	-	-	-	150?	-	-
2004-S58	2453290.50	2004 Oct 12	Ghauri	-	Hatf-V	-	-	-	-	TILLA?	-	-	-	150?	-	-
2004-S60	2453298.50	2004 Oct 20	Ghadr 1	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2005-S21	2453517.50	2005 May 27	Scud D	-	-	-	-	-	-	MINAKH	-	-	-	100?	-	-
2005-S22	2453517.50	2005 May 27	Scud D	-	-	(Hit Turkey)	-	-	-	MINAKH	-	-	-	100?	-	-
2006-S78	2453752.50	2006 Jan 17	Shahab 3	?	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2006-S22	2453878.50	2006 May 23	Ghadr 1	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2006-S35	2453921.29	2006 Jul 4 1904	Hwasong-7	?	-	-	-	-	-	KITT	-	-	-	150?	-	-
2006-S37	2453921.44	2006 Jul 4 2231	Hwasong-7	-	-	-	-	-	-	KITT	-	-	-	150?	-	-
2006-S38	2453921.44	2006 Jul 4 2232?	Hwasong-7	?	-	-	-	-	-	KITT	-	-	-	150?	-	-
2006-S39	2453921.85	2006 Jul 5 0820	Hwasong-7	?	-	-	-	-	-	KITT?	-	-	-	150?	-	-
2006-S59	2454041.50	2006 Nov 2	Ghadr 1	-	-	-	-	-	-	SEMX	-	-	-	150?	-	-
2006-S64	2454055.50	2006 Nov 16	Ghauri	-	Hatf-V	-	-	-	-	TILLA?	-	-	-	400?	-	-
2006-S74	2454069.50	2006 Dec?	Ghadr 1	-	Safir test	Kavesh?	-	-	-	SEM?	SAF	-	-	150?	-	-
2007-S08	2454128.50	2007 Jan 28	Scud D	-	Long range test	-	-	-	-	MINAKH?	-	-	-	150?	-	-
2008-S87	2454497.50	2008 Feb 1	Ghauri	-	Hatf-V	-	-	-	-	TILLA?	-	-	-	400?	-	-
2008-S89	2454500.50	2008 Feb 4?	Safir	-	HUS.0001	Test satellite	-	-	-	SEM	SAF	-	-	250?	-	-
2008-S32	2454655.65	2008 Jul 8 0330?	Ghadr 1	-	-	-	-	-	-	SEMX	-	-	-	500?	-	-
2008-F02	2454695.31	2008 Aug 16 1932	Safir	-	OES.0001	Omid?	-	-	-	SEM	SAF	-	-	250?	-	-
2009-004	2454865.27	2009 Feb 2 1834?	Safir	-	GBS.0092	Omid/Safir-2	-	-	-	SEM	SAF	-	-	439	-	-
2009-S75	2455016.46	2009 Jul 3 2300	Hwasong-7	?	-	[or Hwasong 6]	-	-	-	KITT	-	-	-	150?	500?	S of Japan
2009-S76	2455016.48	2009 Jul 3 2330?	Hwasong-7	?	-	[or Hwasong 6]	-	-	-	KITT	-	-	-	150?	500?	S of Japan
2009-S48	2455102.50	2009 Sep 28	Ghadr 1	?	-	-	-	-	-	IRAN	-	-	-	500?	-	-
2010-S80	2455551.50	2010 Dec 21	Ghauri	-	Hatf-5	-	-	-	-	TILLA?	-	-	-	400?	-	-
2011-S21	2455592.50	2011 Feb	Shahab 3	-	-	-	-	-	-	SEM?	-	-	-	150?	-	-
2011-025	2455727.89	2011 Jun 15 0915:03	Safir	-	UIS.0001	Rasad ?	-	-	-	SEM	SAF	-	-	298	-	-
2011-S26	2455740.50	2011 Jun 28	Ghadr F	-	Ghadr-F?	-	-	-	-	SEM?	-	-	-	150?	-	-
2012-005	2455960.50	2012 Feb 3 0004?	Safir	-	ERS.2002	Navid	Navid	-	-	SEM	SAF	-	-	374	-	-
2012-F02	2456070.50	2012 May 23?	Safir	-	-	Fajr	Fajr	-	-	SEM	SAF	-	-	40?	-	-
2012-S35	2456111.50	2012 Jul 3	Shahab 3	-	-	-	-	-	-	SEM?	-	-	-	150?	-	-
2012-S94	2456120.50	2012 Jul 12	Scud D	-	-	-	-	-	-	ALNASR?	-	-	-	150?	-	-
2012-F03	2456192.50	2012 Sep 22?	Safir	-	-	Fajr	Fajr	-	-	SEM	SAF	-	-	0?	-	-
2012-S71	2456259.50	2012 Nov 28	Ghauri	-	Hatf-V	[1300 km?] Arab.Sea	-	-	-	TILLA?	-	-	-	400?	-	Arab.Sea
2013-S43	2456380.50	2013 Mar 29	Scud D	?	Scud D	-	-	-	-	ALNASR?	-	-	-	100?	-	-
2013-S42	2456463.50	2013 Jun 20	Scud D	-	Scud D	-	-	-	-	ALNASR?	-	-	-	100?	-	-
2014-S14	2456742.23	2014 Mar 25 1735	Hwasong-7	-	Rodong	-	-	-	-	SUKCH	-	-	-	150?	-	-
2014-S15	2456742.24	2014 Mar 25 1742	Hwasong-7	-	Rodong	-	-	-	-	SUKCH	-	-	-	150?	-	-
2015-006	2457055.87	2015 Feb 2 0852	Safir	-	LBS.2001	Fajr	Fajr	-	-	SEM	SAF	-	-	470	-	-
2015-S24	2457127.50	2015 Apr 15	Ghauri	-	Hatf-5	-	-	-	-	TILLA?	-	-	-	400?	-	-
2015-S54	2457306.50	2015 Oct 11	Emad	-	-	-	-	-	-	SEM?	-	-	-	200?	-	-
2015-S82	2457347.50	2015 Nov 21	Ghadr-110	-	Ghadr 1	Ghadr-110	-	-	-	SEM?	-	-	-	150?	-	-
2016-S15	2457456.50	2016 Mar 9	Ghadr F	-	Qadr-F	-	-	-	-	SEM?	-	-	-	150?	2000	-
2016-S16	2457456.50	2016 Mar 9	Ghadr 1	-	Qadr-H	-	-	-	-	SEM?	-	-	-	150?	1700	-
2016-S19	2457465.37	2016 Mar 17 2055	Hwasong-7	-	Rodong	-	-	-	-	SUKCH	-	-	-	150?	800	-
2016-A25	2457465.38	2016 Mar 17 2100?	Hwasong-7	-	Rodong	-	-	-	-	SUKCH	-	-	-	0?	-	-
2016-S45	2457588.40	2016 Jul 18 2140	Hwasong-7	?	Scud C?	-	-	-	-	EUNYUL?	-	-	-	150?	-	-
2016-S48	2457603.45	2016 Aug 2 2253	Hwasong-7	-	Rodong	-	-	-	-	EUNYUL	-	-	-	150?	1000	-
2016-A38	2457603.46	2016 Aug 2 2300?	Hwasong-7	-	Rodong	-	-	-	-	EUNYUL	-	-	-	0?	-	-
2018-S60	2458399.50	2018 Oct 8	Ghauri	-	Hatf-V	[1300 km?] Arab.Sea	-	-	-	TILLA?	-	-	-	400?	-	Arab.Sea
2019-F02	2458519.50	2019 Feb 5	Safir	-	-	Dousti	Dousti	-	-	SEM	SAF	-	-	10?	-	-
2019-S34	2458688.50	2019 Jul 24	Shahab 3	-	-	-	-	-	-	SEM?	-	-	-	150?	1000	-
2019-E01	2458724.79	2019 Aug 29 0658	Safir	-	-	-	-	-	-	SEM	-	-	-	0	0	-
2020-024	2458961.67	2020 Apr 22 0358:59	Qased	-	FTM-C2	Noor 1	-	-	-	SHAHR	LP1	-	-	455	-	-
2021-S05	2459230.50	2021 Jan 16	Ghadr F	-	Ghadr-F	Emad	-	-	-	GARM	-	-	-	400?	1800?	Indian O.
2021-S06	2459230.50	2021 Jan 16	Emad	?	-	Emad	-	-	-	GARM	-	-	-	400?	1700?	Indian O.
2021-S07	2459230.50	2021 Jan 16	Emad	-	-	Emad	-	-	-	GARM	-	-	-	400?	1700?	Indian O.
2021-S80	2459230.50	2021 Jan 16	Ghadr-110	-	-	Emad	-	-	-	GARM	-	-	-	400?	1700?	Indian O.
2022-024	2459646.71	2022 Mar 8 0506?	Qased	-	OM-C2	Noor 2	-	-	-	SHAHR	LP1	-	-	517	-	-
2022-S133	2459931.60	2022 Dec 18 0217	Hwasong-7	?	-	Imaging Payload	-	-	-	SOHAE	-	-	-	550	250	-
2022-S134	2459931.62	2022 Dec 18 0255	Hwasong-7	?	-	Imaging Payload	-	-	-	SOHAE	-	-	-	550	250	-
2023-150	2460214.75	2023 Sep 27 0600?	Qased	-	-	Noor 3	-	-	-	SHAHR	LP1	-	-	-	-	-
2023-S51	2460248.50	2023 Oct 31	Toufan	-	-	-	-	-	-	SANAA?	-	-	-	300?	2000?	Israel
2023-S56	2460241.50	2023 Oct 24	Ghauri	-	Hatf-V	[1300 km?] Arab.Sea	-	-	-	TILLA?	-	-	-	400?	-	Arab.Sea
2023-S69	2460284.50	2023 Dec 6	Salman	-	-	-	-	-	-	SEM?	-	-	-	130	-	-
2024-S21	2460414.46	2024 Apr 13 2300?	Emad	-	-	Emad	-	-	-	IRAN	-	-	-	400?	1700?	Israel
2024-S22	2460414.46	2024 Apr 13 2300?	Emad	-	(many)	Emad	-	-	-	IRAN	-	-	-	400?	1700?	Israel
2024-S23	2460414.46	2024 Apr 13 2300?	Ghadr-110	-	-	-	-	-	-	IRAN	-	-	-	400?	1700?	Israel
2024-S24	2460414.46	2024 Apr 13 2300?	Ghadr-110	-	(many)	-	-	-	-	IRAN	-	-	-	400?	1700?	Israel
2024-S58	2460585.19	2024 Oct 1 1630?	Emad	-	(many)	-	-	-	-	SHIRS	-	-	-	200?	1000?	Israel

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S59	2460585.19	2024 Oct 1 1630?	Ghadr-110	-	(many)	-	-	-	-	SHIRS	-	-	-	200?	1000?	Israel
2024-S60	2460585.19	2024 Oct 1 1630?	Shahab 3	-	(many)	-	-	-	-	SHIRS	-	-	-	200?	1000?	Israel

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-S85	2448011.50	1990 May	Hwasong-7	-	-	0.000	KPA	MF	U	-	Test	nti.org	-	-
1992-A11	2448773.50	1992 Jun	Hwasong-7	-	-	0.000	KPA	MF	U	-	Test	Bermudez	-	-
1993-S37	2449136.50	1993 May 29	Hwasong-7	-	-	0.000	KPA	MS	-	-	Test	JCM	-	-
1998-S33	2450909.50	1998 Apr 6	Ghauri	-	Hatf V	0.000	KRLP	MS	-	-	Test	Wire	-	-
1998-A02	2451016.50	1998 Jul 22	Shahab 3	-	-	0.000	IR	MF	U	-	Test	NYT980723-1	IISS-IR	-
1998-F04	2451056.63	1998 Aug 31 0307:00	Paektusan 1	-	-	0.050	KCST	OF	S3U	G	Sat LEO 0	NYT980901-1	-	Details unknown
1999-S25	2451282.73	1999 Apr 14 0535	Ghauri	-	Hatf-V/Ghauri II	0.000	KRLP	MS	-	-	Test	Wire	-	-
2000-S43	2451740.50	2000 Jul 15	Shahab 3	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2000-A10	2451808.50	2000 Sep 21	Shahab 3	-	Shahab-3D	0.000	IR	MF	U	-	Test	www.fas.org	-	-
2000-S48	2451787.50	2000 Sep	Scud D	-	-	0.000	SYMC	MS	-	-	Test	AWST001009-29	-	-
2000-S53	2451810.50	2000 Sep 23	Scud D	-	-	0.000	SYMC	MS	-	-	Test	www.nti.org	AWST001009-29	-
2002-S30	2452399.50	2002 May 5	Shahab 3	-	-	0.000	IR	MS	-	-	Test	www.orbireport.com	-	-
2002-S34	2452419.65	2002 May 25 0330	Ghauri	-	Hatf-V/Ghauri II	0.000	KRLP	MS	-	-	Test	Wire	Rigg	-
2002-S84	2452459.50	2002 Jul 4	Shahab 3	-	-	0.000	IR	MS	-	-	Test	IISS-IR	-	-
2003-S56	2452790.50	2003 Jun	Shahab 3	-	-	0.000	IR	MS	-	-	Test	Wire	IISS-IR	-
2004-S18	2453154.50	2004 May 29	Ghauri	-	Hatf-V	0.000	KRLP	MS	-	-	Test	Wire	-	-
2004-S21	2453160.50	2004 Jun 4	Ghauri	-	Hatf-V	0.000	KRLP	MS	-	-	Test	Wire	-	-
2004-S32	2453228.50	2004 Aug 11	Ghadr 1	-	Improved Shahab 3	0.000	IR	MS	-	-	Test	Wire	IISS-IR	-
2004-S58	2453290.50	2004 Oct 12	Ghauri	-	Hatf-V	0.000	KRLP	MS	-	-	Test	Wire	-	-
2004-S60	2453298.50	2004 Oct 20	Ghadr 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2005-S21	2453517.50	2005 May 27	Scud D	-	-	0.000	SYMC	MS	-	-	Test	Wire	-	-
2005-S22	2453517.50	2005 May 27	Scud D	-	-	0.000	SYMC	MF	U	-	Test	Wire	-	-
2006-S78	2453752.50	2006 Jan 17	Shahab 3	?	-	0.000	IR	MS	-	-	Test	Wire	-	-
2006-S22	2453878.50	2006 May 23	Ghadr 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2006-S35	2453921.29	2006 Jul 4 1904	Hwasong-7	?	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2006-S37	2453921.44	2006 Jul 4 2231	Hwasong-7	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2006-S38	2453921.44	2006 Jul 4 2232?	Hwasong-7	?	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2006-S39	2453921.85	2006 Jul 5 0820	Hwasong-7	?	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2006-S59	2454041.50	2006 Nov 2	Ghadr 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2006-S64	2454055.50	2006 Nov 16	Ghauri	-	Hatf-V	0.000	KRLP	MS	-	-	Test	Wire	-	-
2006-S74	2454069.50	2006 Dec?	Ghadr 1	-	Safir test	0.000	IRSA	SS	-	IRSA/	Test	Wire	-	-
2007-S08	2454128.50	2007 Jan 28	Scud D	-	Long range test	0.000	SYMC	MS	-	-	Test	www.menewsline.com	-	-
2008-S87	2454497.50	2008 Feb 1	Ghauri	-	Hatf-V	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2008-S89	2454500.50	2008 Feb 4?	Safir	-	HUS.0001	0.000	IRSA	SS	-	IRSA/	Test	Wire	-	Unconfirmed
2008-S32	2454655.65	2008 Jul 8 0330?	Ghadr 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2008-F02	2454695.31	2008 Aug 16 1932	Safir	-	OES.0001	0.020	IRSA	OF	S2	G	Sat LEO 0	Wire	-	Unclear if orb. attempt
2009-004	2454865.27	2009 Feb 2 1834?	Safir	-	GBS.0092	0.025	IRSA	OS	-	G	Sat LEO 0	TLE	-	-
2009-S75	2455016.46	2009 Jul 3 2300	Hwasong-7	?	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S76	2455016.48	2009 Jul 3 2330?	Hwasong-7	?	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S48	2455102.50	2009 Sep 28	Ghadr 1	?	-	0.000	IR	MS	-	-	Test	Wire	-	-
2010-S80	2455551.50	2010 Dec 21	Ghauri	-	Hatf-5	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2011-S21	2455592.50	2011 Feb	Shahab 3	-	-	0.000	IR	MS	-	-	Test	AWST110613-25	-	-
2011-025	2455727.89	2011 Jun 15 0915:03	Safir	-	UIS.0001	0.013	IRSA	OS	-	G	Sat LEO 0	youtube/eEZDofyRPuc	-	-
2011-S26	2455740.50	2011 Jun 28	Ghadr F	-	Ghadr-F?	0.000	IR	MS	-	-	Test	Wire	-	-
2012-005	2455960.50	2012 Feb 3 0004?	Safir	-	ERS.2002	0.050	IRSA	OS	-	G	Sat LEO 0	TLE	-	-
2012-F02	2456070.50	2012 May 23?	Safir	-	-	0.050	IRSA	OF	UX	G	Sat LEO 0	JaneIntellRev	-	Unconfirmed
2012-S35	2456111.50	2012 Jul 3	Shahab 3	-	-	0.000	IR	MS	-	-	Test	spaceref.com	-	-
2012-S94	2456120.50	2012 Jul 12	Scud D	-	-	0.000	SYMC	MS	-	-	Test	Wire	-	-
2012-F03	2456192.50	2012 Sep 22?	Safir	-	-	0.050	IRSA	OF	UX	G	Sat LEO 0	JaneIntellRev	-	Unconfirmed
2012-S71	2456259.50	2012 Nov 28	Ghauri	-	Hatf-V	0.000	PKAFSC	MS	-	-	Test	nasaspaceflight.com	-	-
2013-S43	2456380.50	2013 Mar 29	Scud D	?	Scud D	0.000	SYMC	MS	-	-	Weapon	armscontrolwonk	-	-
2013-S42	2456463.50	2013 Jun 20	Scud D	-	Scud D	0.000	SYMC	MS	-	-	Weapon	armscontrolwonk	-	-
2014-S14	2456742.23	2014 Mar 25 1735	Hwasong-7	-	Rodong	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S15	2456742.24	2014 Mar 25 1742	Hwasong-7	-	Rodong	0.000	JRG	MS	-	-	Test	Wire	-	-
2015-006	2457055.87	2015 Feb 2 0852	Safir	-	LBS.2001	0.052	IRSA	OS	-	G	Sat LEO 0	Wire	-	-
2015-S24	2457127.50	2015 Apr 15	Ghauri	-	Hatf-5	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2015-S54	2457306.50	2015 Oct 11	Emad	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2015-S82	2457347.50	2015 Nov 21	Ghadr-110	-	Ghadr 1	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S15	2457456.50	2016 Mar 9	Ghadr F	-	Qadr-F	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S16	2457456.50	2016 Mar 9	Ghadr 1	-	Qadr-H	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S19	2457465.37	2016 Mar 17 2055	Hwasong-7	-	Rodong	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-A25	2457465.38	2016 Mar 17 2100?	Hwasong-7	-	Rodong	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-S45	2457588.40	2016 Jul 18 2140	Hwasong-7	?	Scud C?	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S48	2457603.45	2016 Aug 2 2253	Hwasong-7	-	Rodong	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-A38	2457603.46	2016 Aug 2 2300?	Hwasong-7	-	Rodong	0.000	JRG	MF	U	-	Test	Wire	-	-
2018-S60	2458399.50	2018 Oct 8	Ghauri	-	Hatf-V	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2019-F02	2458519.50	2019 Feb 5	Safir	-	-	0.052	IRSA	OF	S2P?	G	Sat LEO 0	Wire	-	Details unknown
2019-S34	2458688.50	2019 Jul 24	Shahab 3	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2019-E01	2458724.79	2019 Aug 29 0658	Safir	-	-	0.000	IRSA	OE	PE	G	Sat LEO 0	Wire	-	Pad explosion
2020-024	2458961.67	2020 Apr 22 0358:59	Qased	-	FTM-C2	0.015	IRGC	OS	-	G	Sat LEO 0	Wire	-	-
2021-S05	2459230.50	2021 Jan 16	Ghadr F	-	Ghadr-F	0.000	IR	MS	-	-	Test	twitter/inbarspace	-	-
2021-S06	2459230.50	2021 Jan 16	Emad	?	-	0.000	IR	MS	-	-	Test	twitter/inbarspace	-	-
2021-S07	2459230.50	2021 Jan 16	Emad	-	-	0.000	IR	MS	-	-	Test	twitter/inbarspace	-	-
2021-S80	2459230.50	2021 Jan 16	Ghadr-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2022-024	2459646.71	2022 Mar 8 0506?	Qased	-	OM-C2	0.015	IRGC	OS	-	G	Sat LEO 0	Wire	-	-
2022-S133	2459931.60	2022 Dec 18 0217	Hwasong-7	?	-	0.000	NADA	MS	-	-	Test	Wire	-	-
2022-S134	2459931.62	2022 Dec 18 0255	Hwasong-7	?	-	0.000	NADA	MS	-	-	Test	Wire	-	-
2023-150	2460214.75	2023 Sep 27 0600?	Qased	-	-	0.015	IRGC	OS	-	G	Sat LEO 0	TLE	-	-
2023-S51	2460248.50	2023 Oct 31	Toufan	-	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2023-S56	2460241.50	2023 Oct 24	Ghauri	-	Hatf-V	0.000	PKAFSC	MS	-	-	Test	Wire	-	-
2023-S69	2460284.50	2023 Dec 6	Salman	-	-	0.000	IRSA	SS	-	-	Bio	Wire	-	-
2024-S21	2460414.46	2024 Apr 13 2300?	Emad	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S22	2460414.46	2024 Apr 13 2300?	Emad	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S23	2460414.46	2024 Apr 13 2300?	Ghadr-110	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S24	2460414.46	2024 Apr 13 2300?	Ghadr-110	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S58	2460585.19	2024 Oct 1 1630?	Emad	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S59	2460585.19	2024 Oct 1 1630?	Ghadr-110	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-
2024-S60	2460585.19	2024 Oct 1 1630?	Shahab 3	-	(many)	0.000	IR	MS	-	-	Weapon	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-S53	2458389.01	2018 Sep 27 1216	Nucleus	-	1	-	-	-	-	AND	U3	-	-	107	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-S53	2458389.01	2018 Sep 27 1216	Nucleus	-	1	0.000	NAMMO	SS	-	NAMMO/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-A29	2443280.84	1977 May 17 0815	OTRAG	-	1	4x9m	-	-	-	SHABA	-	-	-	12	-	-
1978-A21	2443648.42	1978 May 19 2201	OTRAG	-	2	4x9m	-	-	-	SHABA	-	-	-	9	-	-
1978-A27	2443664.99	1978 Jun 5 1140	OTRAG	-	3a	4x15m	-	-	-	SHABA	-	-	-	0?	-	-
1981-S75	2444664.89	1981 Mar 1 0920	OTRAG	-	3	4x15m	-	-	-	SEBA	-	-	-	150?	-	-
1981-M02	2444762.50	1981 Jun 7	OTRAG	-	4	4x15m	-	-	-	SEBA	-	-	-	50?	-	-
1981-M03	2444864.50	1981 Sep 17	OTRAG	-	5	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1981-M04	2444878.50	1981 Oct 1	OTRAG	-	6	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1981-M05	2444901.50	1981 Oct 24	OTRAG	-	7	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1981-M06	2444927.50	1981 Nov 19	OTRAG	-	8	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1981-M07	2444950.50	1981 Dec 12	OTRAG	-	9	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M53	2445122.50	1982 Jun 2	OTRAG	-	10	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M54	2445144.50	1982 Jun 24	OTRAG	-	11	1x15m RSO test	-	-	-	SEBA	-	-	-	10?	-	-
1982-M55	2445214.50	1982 Sep 2	OTRAG	-	12	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M56	2445223.50	1982 Sep 11	OTRAG	-	13	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M57	2445283.50	1982 Nov 10	OTRAG	-	14	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M58	2445289.50	1982 Nov 16	OTRAG	-	15	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1982-M59	2445312.50	1982 Dec 9	OTRAG	-	16	1x15m	-	-	-	SEBA	-	-	-	50?	-	-
1983-M01	2445596.75	1983 Sep 19 0559	OTRAG	-	DLR K-OL-120	1-3-B 4x9m	-	-	-	ESR	MAN	-	-	4	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-A29	2443280.84	1977 May 17 0815	OTRAG	-	1	0.000	OTR	SS	-	OTR/	Test	OTRAGBrochure	AASH25-201	-
1978-A21	2443648.42	1978 May 19 2201	OTRAG	-	2	0.000	OTR	SS	-	OTR/	Test	AASH25-201	-	-
1978-A27	2443664.99	1978 Jun 5 1140	OTRAG	-	3a	0.000	OTR	SF	U	OTR/	Test	AASH25-201	-	-
1981-S75	2444664.89	1981 Mar 1 0920	OTRAG	-	3	0.000	OTR	SS	-	OTR/	Test	AASH25-201	astronautix.com	-
1981-M02	2444762.50	1981 Jun 7	OTRAG	-	4	0.000	OTR	SS	-	OTR/	Test	bernd-leitenberger.d	-	-
1981-M03	2444864.50	1981 Sep 17	OTRAG	-	5	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1981-M04	2444878.50	1981 Oct 1	OTRAG	-	6	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1981-M05	2444901.50	1981 Oct 24	OTRAG	-	7	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1981-M06	2444927.50	1981 Nov 19	OTRAG	-	8	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1981-M07	2444950.50	1981 Dec 12	OTRAG	-	9	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M53	2445122.50	1982 Jun 2	OTRAG	-	10	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M54	2445144.50	1982 Jun 24	OTRAG	-	11	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M55	2445214.50	1982 Sep 2	OTRAG	-	12	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M56	2445223.50	1982 Sep 11	OTRAG	-	13	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M57	2445283.50	1982 Nov 10	OTRAG	-	14	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M58	2445289.50	1982 Nov 16	OTRAG	-	15	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1982-M59	2445312.50	1982 Dec 9	OTRAG	-	16	0.000	OTR	SS	-	OTR/	Test	astronautix.com	-	-
1983-M01	2445596.75	1983 Sep 19 0559	OTRAG	-	DLR K-OL-120	0.000	OTR/DLR	SF	U	DLR/	Test	AASH25-201	Moraba	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S332	2443386.50	1977 Sep	Oka	-	-	First launch	-	-	-	GTsP-4	-	-	-	120?	-	-
1979-S276	2444085.50	1979 Aug	Oka	-	-	Stage 1, last	-	-	-	GTsP-4	-	-	-	120?	-	-
1979-S277	2444116.50	1979 Sep	Oka	-	-	Stage 2, first	-	-	-	GTsP-4	-	-	-	120?	-	-
1980-S259	2444420.50	1980 Jul	Oka	-	-	Stage 2, last	-	-	-	GTsP-4	-	-	-	120?	-	-
1987-S202	2446795.50	1987	Oka	-	-	Flight KY 104 (last)	-	-	-	GTsP-4	-	-	-	120?	-	-
1991-M03	2448256.50	1991	Iskander	-	1	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1991-M04	2448256.50	1991	Iskander	-	2	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1991-M05	2448256.50	1991	Iskander	-	3	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1991-M06	2448256.50	1991	Iskander	-	4	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1991-M07	2448256.50	1991	Iskander	-	5	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1992-M05	2448621.50	1992	Iskander	-	II-1	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1996-M04	2450082.50	1996	Iskander-M	-	1	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1997-M08	2450448.50	1997	Iskander	-	II-10	-	-	-	-	GTsP-4	-	-	-	50?	400?	-
2008-M10	2454686.50	2008 Aug 8	Iskander-M	?	-	S Ossetia war	-	-	-	NOSSET?	-	-	-	50?	-	Gori
2013-M06	2456595.50	2013 Oct 30	Iskander-M	-	-	-	-	-	-	GTsP-4	-	-	-	50?	-	-
2016-M03	2457618.50	2016 Aug 18?	Iskander-M	-	-	-	-	-	-	EAO	-	-	-	50?	300	Amur range
2017-M03	2457998.50	2017 Sep 2	Iskander-M	-	-	-	-	-	-	ASHU	-	-	-	50?	300	-
2017-M04	2457998.50	2017 Sep 2	Iskander-M	-	-	-	-	-	-	ASHU	-	-	-	50?	300	-
2018-M05	2458187.50	2018 Mar 10?	Kinzhal	-	-	-	-	-	-	GTsP-4?	-	-	-	60?	-	-
2019-M02	2458607.58	2019 May 4 0154	Hwasong-11Ga	-	-	-	-	-	-	WONSAN	LP3	-	-	50?	220	-
2019-M03	2458612.81	2019 May 9 0729	Hwasong-11Ga	-	107-120-893	-	-	-	-	KUSONG	-	-	-	50?	420	-
2019-M04	2458612.83	2019 May 9 0749	Hwasong-11Ga	-	-	-	-	-	-	KUSONG	-	-	-	50?	270	-
2019-M06	2458689.36	2019 Jul 24 2034	Hwasong-11Ga	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	430	-
2019-M07	2458689.37	2019 Jul 24 2057	Hwasong-11Ga	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	690	-
2019-A100	2458701.35	2019 Aug 5 2024	Hwasong-11Ga	-	-	-	-	-	-	SHWH	-	-	-	37	450	-
2019-A101	2458701.36	2019 Aug 5 2036	Hwasong-11Ga	-	-	-	-	-	-	SHWH	-	-	-	37	450	-
2020-M06	2459126.50	2020 Oct 4?	Iskander	-	-	-	-	Attack on Ganja	-	AMX	-	-	-	40?	-	-
2020-M07	2459162.50	2020 Nov 9?	Iskander	-	-	-	-	-	-	AMX	-	-	-	40?	-	-
2021-M01	2459298.42	2021 Mar 24 2206	Hwasong-11Da	-	199-92-891	High payload mass	-	-	-	HAMJ	-	-	-	60	450	-
2021-M02	2459298.43	2021 Mar 24 2225	Hwasong-11Da	-	199-92-892	-	-	-	-	HAMJ	-	-	-	60	450	-
2021-M05	2459472.65	2021 Sep 15 0334	Hwasong-11Ga	?	-	Rail Launch	-	-	-	YDK	-	-	-	60	800	-
2021-M06	2459472.65	2021 Sep 15 0339	Hwasong-11Ga	?	-	Rail Launch	-	-	-	YDK	-	-	-	60	800	-
2021-M08	2459506.55	2021 Oct 19 0117	Bukguekseong-6	?	-	-	-	-	KPN-PLAT?	SINPO	-	-	-	60	450	Sea of J.
2022-A01	2459593.74	2022 Jan 14 0541	Hwasong-11Ga	?	-	Rail Launch	-	-	-	UIJU	-	-	-	36	430	-
2022-A02	2459593.74	2022 Jan 14 0552	Hwasong-11Ga	?	-	Rail Launch	-	-	-	UIJU	-	-	-	36	430	-
2022-A05	2459606.46	2022 Jan 26 2300?	Hwasong-11Ga	-	-	-	-	-	-	HAMH	-	-	-	20	190	-
2022-A06	2459606.46	2022 Jan 26 2300?	Hwasong-11Ga	-	-	-	-	-	-	HAMH	-	-	-	20	190	-
2022-M04	2459633.50	2022 Feb 23	Iskander-M	?	9M723	-	-	-	-	VOLR?	-	-	-	60?	-	Kyiv
2022-M05	2459633.50	2022 Feb 23	Iskander-M	?	-	-	-	-	-	BLRUS?	-	-	-	60?	-	Kyiv
2022-M06	2459634.50	2022 Feb 24	Iskander-M	?	-	-	-	-	-	BLRUS	KALV	-	-	60?	-	Kyiv?
2022-M07	2459634.50	2022 Feb 24	Iskander-M	?	-	-	-	-	-	VOLR?	-	-	-	60?	-	Odessa
2022-M08	2459634.50	2022 Feb 24	Iskander-M	?	-	-	-	-	-	VOLR?	-	-	-	60?	-	Odessa
2022-M09	2459634.92	2022 Feb 24 1000?	Iskander-M	?	-	-	-	-	-	KRASK	YEYSK	-	-	60?	-	Ukraine
2022-M10	2459634.50	2022 Feb 24	Iskander-M	?	-	-	-	-	-	KRASK	-	-	-	60?	-	Ukraine
2022-M11	2459635.50	2022 Feb 25	Iskander-M	?	-	-	-	-	-	BLRUS?	-	-	-	60?	-	Myrhorod
2022-M12	2459636.50	2022 Feb 26	Iskander-M	?	-	-	-	-	-	VOLR	BELG	-	-	60?	-	Balakleya
2022-M13	2459636.50	2022 Feb 26	Iskander-M	?	-	-	-	-	-	VOLR	BELG	-	-	60?	-	Ukraine
2022-M14	2459636.50	2022 Feb 26	Iskander-M	?	-	-	-	-	-	BLRUS	MOZYR	-	-	60?	-	Ukraine
2022-M15	2459638.13	2022 Feb 27 1505?	Iskander-M	?	-	-	-	-	-	BLRUS	MOZYR	-	-	60?	-	Zhytomyr
2022-M16	2459638.13	2022 Feb 27 1505?	Iskander-M	?	-	-	-	-	-	BLRUS	MOZYR	-	-	60?	-	Zhytomyr
2022-M17	2459638.34	2022 Feb 27 2006	Iskander-M	?	-	-	-	-	-	BLRUS	MOZYR	-	-	60?	-	Zhytomyr
2022-M18	2459638.38	2022 Feb 27 2108	Iskander-M	?	-	-	-	-	-	BLRUS	MOZYR	-	-	60?	-	Zhytomyr
2022-M19	2459639.94	2022 Mar 1 1037	Iskander-M	?	-	-	-	-	-	BLRUS	KALV	-	-	60?	-	Ukraine
2022-M20	2459639.94	2022 Mar 1 1037	Iskander-M	?	-	-	-	-	-	BLRUS	KALV	-	-	60?	-	Ukraine
2022-M21	2459640.10	2022 Mar 1 1418	Iskander-M	?	-	-	-	-	-	BLRUS	GRUSH	-	-	60?	-	Ukraine
2022-M22	2459640.10	2022 Mar 1 1418	Iskander-M	?	-	-	-	-	-	BLRUS	GRUSH	-	-	60?	-	Ukraine
2022-A09	2459685.88	2022 Apr 16 0900?	Hwasong-11Ra	?	-	-	-	-	-	HAMH	-	-	-	25	110	-
2022-A10	2459685.88	2022 Apr 16 0900?	Hwasong-11Ra	?	-	-	-	-	-	HAMH	-	-	-	25	110	-
2022-M23	2459706.71	2022 May 7 0505	Bukguekseong-6	?	KN-23?	-	-	-	824YONG	SINPO	-	-	-	60	600	-
2022-A12	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	60?	350?	-
2022-A13	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	20?	110?	-
2022-A14	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	20?	110?	-
2022-A22	2459850.88	2022 Sep 28 0910	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	36	360	-
2022-A23	2459850.89	2022 Sep 28 0920	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	36	360	-
2022-A24	2459852.41	2022 Sep 29 2145	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	30	350	-
2022-A25	2459852.42	2022 Sep 29 2203	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	-	-	-	30	350	-
2022-M27	2459858.39	2022 Oct 5 2123	Hwasong-11Ga	?	-	-	-	-	-	SUNAN	LP3	-	-	60	800	-
2022-A28	2459880.62	2022 Oct 28 0259	Hwasong-11Ga	?	-	-	-	-	-	TONGC	-	-	-	24	230?	-
2022-A29	2459880.64	2022 Oct 28 0318	Hwasong-11Ga	?	-	-	-	-	-	TONGC	-	-	-	24	230?	-
2022-A30	2459885.49	2022 Nov 1 2351	Hwasong-11Ga	?	-	-	-	-	-	TONGC?	-	-	-	30?	300?	-
2022-A31	2459888.61	2022 Nov 5 0232	Hwasong-11Ga	?	-	-	-	-	-	DONGR	-	-	Yellow Sea	20	130	-
2022-A32	2459888.61	2022 Nov 5 0240?	Hwasong-11Ga	?	-	-	-	-	-	DONGR	-	-	Yellow Sea	20	130	-
2022-A33	2459888.62	2022 Nov 5 0250?	Hwasong-11Ga	?	-	-	-	-	-	DONGR	-	-	Yellow Sea	20	130	-
2022-A34	2459888.62	2022 Nov 5 0259	Hwasong-11Ga	?	-	-	-	-	-	DONGR	-	-	Yellow Sea	20	130	-
2022-A35	2459888.62	2022 Nov 5 0259	Hwasong-11Ga	?	-	-	-	-	-	SUKCH	-	-	-	30	290	-
2022-M30	2459892.77	2022 Nov 9 0631	Hwasong-11Ga	?	-	-	-	-	-	SUKCH	-	-	-	50	250	-
2023-A01	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-A02	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-A03	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-A04	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-A05	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-A06	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	-	-	-	-	TAES	-	-	-	25	110	-
2023-S06	2460017.45	2023 Mar 13 2241	Hwasong-11Ga	-	-	Hwasong-11S?	-	-	-	JANGY	-	-	-	100?	620	-
2023-S07	2460017.45	2023 Mar 13 2251	Hwasong-11Ga	-	-	-	-	-	-	JANGY	-	-	-	100?	620	-
2023-M02	2460022.59	2023 Mar 19 0205	Hwasong-11Ga	-	-	Silo test?	-	-	-	SOHAE	LP2	-	-	50	800?	-
2024-S42	2460492.34	2024 Jun 30 2005	Hwasong-11Da-4.5	-	-	-	-	-	-	JANGY	-	-	-	100?	600	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S43	2460492.34	2024 Jun 30 2015	Hwasong-11Da	?	-	-	-	-	-	JANGY	-	-	-	100?	120	-
2025-S22	2460803.51	2025 May 8 0020	Hwasong-11Ka	-	-	-	-	-	-	WONSAN?	-	-	-	100?	800?	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	LaunchOrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S332	2443386.50	1977 Sep	Oka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1979-S276	2444085.50	1979 Aug	Oka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1979-S277	2444116.50	1979 Sep	Oka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1980-S259	2444420.50	1980 Jul	Oka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1987-S202	2446795.50	1987	Oka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1991-M03	2448256.50	1991	Iskander	-	1	0.000	RVSN	MS	-	-	Test	KY60	-	-
1991-M04	2448256.50	1991	Iskander	-	2	0.000	RVSN	MS	-	-	Test	KY60	-	-
1991-M05	2448256.50	1991	Iskander	-	3	0.000	RVSN	MS	-	-	Test	KY60	-	-
1991-M06	2448256.50	1991	Iskander	-	4	0.000	RVSN	MS	-	-	Test	KY60	-	-
1991-M07	2448256.50	1991	Iskander	-	5	0.000	RVSN	MS	-	-	Test	KY60	-	-
1992-M05	2448621.50	1992	Iskander	-	II-1	0.000	RVSN	MS	-	-	Test	KY60	-	-
1996-M04	2450082.50	1996	Iskander-M	-	1	0.000	RVSN	MS	-	-	Test	KY60	-	-
1997-M08	2450448.50	1997	Iskander	-	II-10	0.000	RVSN	MS	-	-	Test	KY60	-	-
2008-M10	2454686.50	2008 Aug 8	Iskander-M	?	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
2013-M06	2456595.50	2013 Oct 30	Iskander-M	-	-	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
2016-M03	2457618.50	2016 Aug 18?	Iskander-M	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	-
2017-M03	2457998.50	2017 Sep 2	Iskander-M	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	-
2017-M04	2457998.50	2017 Sep 2	Iskander-M	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	-
2018-M05	2458187.50	2018 Mar 10?	Kinzhal	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	-
2019-M02	2458607.58	2019 May 4 0154	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	twitter.com/nktpnd	-	-
2019-M03	2458612.81	2019 May 9 0729	Hwasong-11Ga	-	107-120-893	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-M04	2458612.83	2019 May 9 0749	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-M06	2458689.36	2019 Jul 24 2034	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-M07	2458689.37	2019 Jul 24 2057	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A100	2458701.35	2019 Aug 5 2024	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2019-A101	2458701.36	2019 Aug 5 2036	Hwasong-11Ga	-	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2020-M06	2459126.50	2020 Oct 4?	Iskander	-	-	0.000	AMAD	MS	-	-	Weapon	Wire	-	-
2020-M07	2459162.50	2020 Nov 9?	Iskander	-	-	0.000	AMAD	MS	-	-	Weapon	Wire	-	-
2021-M01	2459298.42	2021 Mar 24 2206	Hwasong-11Da	-	199-92-891	0.000	JRG	MS	-	-	OT	Wire	-	-
2021-M02	2459298.43	2021 Mar 24 2225	Hwasong-11Da	-	199-92-892	0.000	JRG	MS	-	-	OT	Wire	-	-
2021-M05	2459472.65	2021 Sep 15 0334	Hwasong-11Ga	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2021-M06	2459472.65	2021 Sep 15 0339	Hwasong-11Ga	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2021-M08	2459506.55	2021 Oct 19 0117	Bukguekseong-6	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-A01	2459593.74	2022 Jan 14 0541	Hwasong-11Ga	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2022-A02	2459593.74	2022 Jan 14 0552	Hwasong-11Ga	?	-	0.000	JRG	MS	-	-	OT	Wire	-	-
2022-A05	2459606.46	2022 Jan 26 2300?	Hwasong-11Ga	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A06	2459606.46	2022 Jan 26 2300?	Hwasong-11Ga	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M04	2459633.50	2022 Feb 23	Iskander-M	?	9M723	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M05	2459633.50	2022 Feb 23	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M06	2459634.50	2022 Feb 24	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M07	2459634.50	2022 Feb 24	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M08	2459634.50	2022 Feb 24	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M09	2459634.92	2022 Feb 24 1000?	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M10	2459634.50	2022 Feb 24	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M11	2459635.50	2022 Feb 25	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M12	2459636.50	2022 Feb 26	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M13	2459636.50	2022 Feb 26	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M14	2459636.50	2022 Feb 26	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M15	2459638.13	2022 Feb 27 1505?	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M16	2459638.13	2022 Feb 27 1505?	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M17	2459638.34	2022 Feb 27 2006	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M18	2459638.38	2022 Feb 27 2108	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M19	2459639.94	2022 Mar 1 1037	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M20	2459639.94	2022 Mar 1 1037	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M21	2459640.10	2022 Mar 1 1418	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-M22	2459640.10	2022 Mar 1 1418	Iskander-M	?	-	0.000	RVA	MS	-	-	Weapon	Twitter	-	-
2022-A09	2459685.88	2022 Apr 16 0900?	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A10	2459685.88	2022 Apr 16 0900?	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M23	2459706.71	2022 May 7 0505	Bukguekseong-6	?	KN-23?	0.000	JRG	MS	-	-	Test	Wire	-	-
2022-A12	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A13	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A14	2459735.56	2022 Jun 5 0120?	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A22	2459850.88	2022 Sep 28 0910	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A23	2459850.89	2022 Sep 28 0920	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A24	2459852.41	2022 Sep 29 2145	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A25	2459852.42	2022 Sep 29 2203	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M27	2459858.39	2022 Oct 5 2123	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A28	2459880.62	2022 Oct 28 0259	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A29	2459880.64	2022 Oct 28 0318	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A30	2459885.49	2022 Nov 1 2351	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A31	2459888.61	2022 Nov 5 0232	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A32	2459888.61	2022 Nov 5 0240?	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A33	2459888.62	2022 Nov 5 0250?	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A34	2459888.62	2022 Nov 5 0259	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-A35	2459888.62	2022 Nov 5 0259	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-M30	2459892.77	2022 Nov 9 0631	Hwasong-11Ga	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A01	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A02	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A03	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A04	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A05	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-A06	2460012.89	2023 Mar 9 0920	Hwasong-11Ra	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-S06	2460017.45	2023 Mar 13 2241	Hwasong-11Ga	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-S07	2460017.45	2023 Mar 13 2251	Hwasong-11Ga	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2023-M02	2460022.59	2023 Mar 19 0205	Hwasong-11Ga	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2024-S42	2460492.34	2024 Jun 30 2005	Hwasong-11Da-4.5	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S43	2460492.34	2024 Jun 30 2015	Hwasong-11Da	?	-	0.000	KPA	MF	U	-	Test	Wire	-	-
2025-S22	2460803.51	2025 May 8 0020	Hwasong-11Ka	-	-	0.000	KPA	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-A22	2455323.04	2010 May 6 1300:00	Orion LAS	-	PA-1	-	-	-	-	WS	LC32E	-	-	1	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-A22	2455323.04	2010 May 6 1300:00	Orion LAS	-	PA-1	0.000	JSC/LARCN	TS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-M31	2436347.44	1958 May 23 2239	Aerobee 75	-	SS12.48	Grenades	IGY SS12.48	-	-	WS	-	-	-	60	-	-
1958-M16	2436511.04	1958 Nov 3 1252	Aerobee 75	-	SS12.050	Grenades	IGY SS12.50F	-	-	GUAM	-	-	-	54	-	-
1958-M17	2436515.02	1958 Nov 7 1225:38	Aerobee 75	-	SS12.051	Grenades	IGY SS12.51F	-	-	GUAM	-	-	-	59	-	-
1958-M24	2436530.21	1958 Nov 22 1706:00	Aerobee 75	-	SS12.057	Grenades	IGY SS12.57F	-	-	GUAM	-	-	-	59	-	-
1974-A23	2442197.33	1974 May 29 1948	Orion	-	NASA 30.01WT	Hawk Motor Test	-	-	-	WI	-	-	-	46	-	-
1974-M05	2442360.31	1974 Nov 8 1933	Orion	-	NASA 30.02WT	-	-	-	-	WI	-	-	-	73	-	-
1977-M01	2443339.02	1977 Jul 14 1230	Orion	-	NASA 12.27GT	Parachute Test	-	-	-	WS	-	-	-	59	-	-
1978-M01	2443541.97	1978 Feb 2 1110:00	Orion	-	DLR A-0-89	A-OR-90 Orion 1	-	-	-	AND	-	-	-	57	-	-
1978-S208	2443765.32	1978 Sep 13 1936	Orion	-	DLR K-0-91	K-OR-91	-	-	-	ESR	-	-	-	62	-	-
1979-S236	2444181.89	1979 Nov 4 0927	Orion	-	NASA 30.09IU	-	-	-	-	WI	-	-	-	82	-	-
1980-M05	2444435.30	1980 Jul 14 1911	Orion	-	NASA 30.03UU	-	-	-	-	WI	-	-	-	76	-	-
1980-S179	2444519.65	1980 Oct 7 0336:42	Orion	-	NASA 30.10GU	TY2-7688	-	-	-	AND	-	-	-	87	-	-
1980-S184	2444524.42	1980 Oct 11 2157:54	Orion	-	NASA 30.11GU	TY2-7684	-	-	-	AND	-	-	-	83	-	-
1980-M06	2444529.29	1980 Oct 16 1854	Orion	-	NASA 30.04UU	-	-	-	-	WI	-	-	-	75	-	-
1980-S190	2444530.62	1980 Oct 18 0250:25	Orion	-	NASA 30.12GU	-	-	-	-	AND	-	-	-	85	-	-
1981-M01	2444663.27	1981 Feb 27 1827	Orion	-	NASA 30.07GU	-	-	-	-	WI	-	-	-	77	-	-
1981-S130	2444809.23	1981 Jul 23 1730	Orion	-	NASA 30.14UU	UM NO Profile	-	-	-	WI	-	-	-	73	-	-
1981-S131	2444809.26	1981 Jul 23 1820	Orion	-	NASA 30.08UU	UM NO Profile	-	-	-	WI	-	-	-	75?	-	-
1981-S146	2444840.50	1981 Aug 24	Orion	-	NASA 30.16UE	-	-	-	-	WI	-	-	-	85?	-	-
1981-M15	2444872.08	1981 Sep 24 1350	Orion	-	NASA 30.13UE	-	-	-	-	WI	-	-	-	71	-	-
1981-M16	2444922.89	1981 Nov 14 0915	Orion	-	DLR K-0-111	DFVLR Strafam 1/1	-	-	-	ESR	-	-	-	60	-	-
1982-S143	2445184.50	1982 Aug 3	Orion	-	NASA 30.21GU	-	-	-	-	WS	-	-	-	85?	-	-
1983-S45	2445348.23	1983 Jan 13 1731	Orion	-	NASA 30.15UU	UM NO Profile	-	-	-	WI	-	-	-	70	-	-
1983-S46	2445348.28	1983 Jan 13 1839	Orion	-	NASA 30.18UU	UM NO Profile	-	-	-	WI	-	-	-	75?	-	-
1983-S92	2445451.73	1983 Apr 27 0530	Orion	-	DLR K-0-117	DFVLR Strafam 1/3	-	-	-	ESR	-	-	-	58	-	-
1984-M03	2445731.38	1984 Jan 31 2105:36	Orion	-	DLR K-0-129 DROPMAS	DFVLR Strafam 1/4	-	-	-	ESR	-	-	-	57	-	-
1984-S107	2445929.36	1984 Aug 16 2040	Orion	-	NASA 30.19UU	-	-	-	-	WI	-	-	-	85?	-	-
1984-S109	2445935.92	1984 Aug 23 1005	Orion	-	NASA 30.22UE	PSU E	-	-	-	WI	-	-	-	85?	-	-
1985-S28	2446094.42	1985 Jan 28 2210	Orion	-	NASA 30.23UU	-	-	-	-	PF	-	-	-	85?	-	-
1985-S36	2446104.42	1985 Feb 7 2201	Orion	-	NASA 30.24UU	-	-	-	-	PF	-	-	-	85?	-	-
1985-S43	2446112.14	1985 Feb 15 1515	Orion	-	DLR N-0-135	Fin test	-	-	-	CLBI	-	-	-	85?	-	-
1985-S45	2446119.14	1985 Feb 22 1520	Orion	-	DLR N-0-136	Fin test	-	-	-	CLBI	-	-	-	85?	-	-
1985-S68	2446157.81	1985 Apr 2 0721:01	Orion	-	NASA 30.25UE	-	-	-	-	PF	-	-	-	85?	-	-
1985-S113	2446315.91	1985 Sep 7 0945	Orion	-	NASA 30.26UE	-	-	-	-	WI	-	-	-	85?	-	-
1985-S114	2446318.50	1985 Sep 10 0001:00	Orion	-	NASA 30.28UE	-	-	-	-	WI	-	-	-	85?	-	-
1985-S120	2446326.30	1985 Sep 17 1915	Orion	-	NASA 30.27UU	-	-	-	-	WS	-	-	-	85?	-	-
1985-S129	2446354.92	1985 Oct 16 1001:00	Orion	-	NASA 30.31UE	-	-	-	-	WI	-	-	-	85?	-	-
1985-S75	2446199.67	1985 May 14 0400	Orion	-	DLR K-0-140	DFVLR Strafam 1/5	-	-	-	ESR	-	-	-	56	-	-
1986-S114	2446754.93	1986 Nov 20 1015	Orion	-	NASA 30.33UE	Turbulence	-	-	-	WI	-	-	-	87	-	-
1987-S52	2446843.95	1987 Feb 17 1043	Orion	-	DLR K-0-143	Strafam 2/1 DROPMAS3	-	-	-	ESR	-	-	-	59	-	-
1987-S83	2446921.71	1987 May 6 0508	Orion	-	DLR K-0-145	RASMUS	-	-	-	ESR	-	-	-	61	-	-
1987-S111	2447003.47	1987 Jul 26 2322	Orion	-	NASA 30.34UE	WIPP/PSU E	-	-	-	WI	-	-	-	90	-	-
1987-S152	2447083.95	1987 Oct 15 1052:20	Orion	-	NASA 30.38UE	MAC/Epsilon XRG	-	-	-	AND	-	-	-	81	-	-
1987-S161	2447090.40	1987 Oct 21 2134	Orion	-	NASA 30.36UE	MAC/Epsilon MAE	-	-	-	AND	-	-	-	89	-	-
1987-S172	2447111.52	1987 Nov 12 0021:43	Orion	-	NASA 30.37UE	MAC/Epsilon MAE	-	-	-	AND	-	-	-	87	-	-
1988-S144	2447501.92	1988 Dec 6 1002	Orion	-	DLR K-0-163	RASMUS 2	-	-	-	ESR	-	-	-	65	-	-
1989-S32	2447556.85	1989 Jan 30 0830	Orion	-	DLR K-0-166	Strafam 2/2	-	-	-	ESR	-	-	-	66	-	-
1990-S31	2447916.87	1990 Jan 25 0850	Orion	-	DLR K-0-172	Strafam 2/3	-	-	-	ESR	-	-	-	0?	-	-
1990-S56	2447956.85	1990 Mar 6 0830	Improved Orion	-	DLR K-0-174	RASMUS 3	-	-	-	ESR	-	-	-	79	-	-
1990-S89	2448025.40	1990 May 13 2137:40	Orion	-	NASA 30.35UE	-	-	-	-	PF	-	-	-	85?	-	-
1991-S59	2448290.98	1991 Feb 3 1130	Orion	-	DLR K-0-185	Strafam 3/2	-	-	-	ESR	-	-	-	58	-	-
1991-S93	2448355.65	1991 Apr 9 0341	Orion	-	DLR K-0-186	RASMUS 4	-	-	-	ESR	-	-	-	65	-	-
1992-M02	2448887.27	1992 Sep 21 1832	Orion	-	NASA 30.40UP	CSOAR	-	-	-	WI	-	-	-	54	-	-
1993-S18	2449045.50	1993 Feb 27	Orion	-	DLR K-0-200	Strafam 3/21	-	-	-	ESR	-	-	-	85?	-	-
1994-S17	2449402.89	1994 Feb 19 0927	Orion	-	DLR K-0-207	RASMUS 5	-	-	-	ESR	-	-	-	3	-	-
1994-S48	2449549.52	1994 Jul 16 0023	Orion	-	NASA 30.39UE	-	-	-	-	WI	-	-	-	85?	-	-
1994-S59	2449587.32	1994 Aug 22 1938	Orion	-	NASA 30.41UP	CSHARP	-	-	-	WI	-	-	-	85?	-	-
1994-M01	2449691.53	1994 Dec 5 0048	Improved Orion	-	SSC HYGROSOND	SSC Hygrosond	-	-	-	ESR	-	-	-	77	-	-
1995-S49	2449912.83	1995 Jul 14 0750	Improved Orion	-	DLR K-0/I-216	DLR Test Orion 1	-	-	-	ESR	-	-	-	7	-	-
1995-S65	2449998.94	1995 Oct 8 1036	Improved Orion	-	DLR K-0/I-217	DLR Test Orion 2	-	-	-	ESR	-	-	-	74	-	-
1995-S83	2450055.93	1995 Dec 4 1023	Improved Orion	-	SSC REXUS	SSC REXUS 1	-	-	-	ESR	-	-	-	89	-	-
1997-S44	2450603.88	1997 Jun 4 0900	Improved Orion	-	SSC GYROTEST	SSC GYROTEST	-	-	-	ESR	-	-	-	94	-	-
1998-S41	2450940.25	1998 May 6 1755:58	Orion	-	NASA 30.042NP	-	-	-	-	WI	-	-	-	85?	-	-
1998-S58	2451093.98	1998 Oct 7 1135	Orion	-	DLR K-0-236	DLR Maxus Test	-	-	-	ESR	-	-	-	56	-	-
1999-S46	2451365.50	1999 Jul 6 0006	Improved Orion	-	MD-MI-05	MIDAS	-	-	-	AND	-	-	-	85?	-	-
1999-A03	2451396.26	1999 Aug 5 1811:05	Orion	-	NASA 30.043NO	Sub-SEM	-	-	-	WI	-	-	-	40	-	-
2000-M01	2451573.93	2000 Jan 30 1025:01	Orion	-	NASA 30.044UP	ASRP SRP-3	-	-	-	PF	-	-	-	79	-	-
2000-S28	2451671.21	2000 May 6 1708:00	Improved Orion	-	MS-MI-03	MIDAS Ferdinand-115	-	-	-	AND	-	-	-	85?	-	-
2000-S29	2451679.53	2000 May 15 0046:00	Improved Orion	-	MS-MI-05	MIDAS Ferdinand-116	-	-	-	AND	-	-	-	85?	-	-
2000-S36	2451713.96	2000 Jun 18 1103:00	Orion	-	NASA 30.045NO	-	-	-	-	WI	-	-	-	85?	-	-
2001-S11	2451959.75	2001 Feb 19 0602:00	Improved Orion	-	DLR K-0-?	DLR Test Maxus-4	-	-	-	ESR	-	-	-	81	-	-
2001-A05	2452026.94	2001 Apr 27 1035:05	Orion	-	NASA 30.046UO	-	-	-	-	WI	-	-	-	47	-	-
2001-S22	2452044.58	2001 May 15 0157:00	Improved Orion	-	HiN-2	Hotel Dart test	-	-	-	AND	-	-	-	115	-	-
2001-S24	2452066.95	2001 Jun 6 1050:00	Orion	-	NASA 30.048NO	-	-	-	-	WI	-	-	-	85?	-	-
2001-S25	2452077.50	2001 Jun 17 0005	Improved Orion	-	SO-MI-05	MIDAS	-	-	-	AND	-	-	-	85?	-	-
2001-S27	2452085.39	2001 Jun 24 2121:15	Improved Orion	-	SO-MI-11	MIDAS	-	-	-	AND	-	-	-	85?	-	-
2001-S59	2452259.72	2001 Dec 16 0512	Improved Orion	-	SSC Hygrosond-2	SSC Hygrosond-2	-	-	-	ESR	-	-	-	90	-	-
2002-S13	2452340.88	2002 Mar 7 0907:51	Improved Orion	-	NASA 30.49UE	-	-	-	-	PF	-	-	-	85?	-	-
2002-S14	2452348.97	2002 Mar 15 1115:41	Improved Orion	-	NASA 30.52UE	-	-	-	-	PF	-	-	-	85?	-	-
2002-S15	2452349.04	2002 Mar 15 1303:51	Improved Orion	-	NASA 30.50UE	-	-	-	-	PF	-	-	-	85?	-	-
2002-S16	2452349.07	2002 Mar 15 1342:31	Improved Orion	-	NASA 30.51UE	-	-	-	-	PF	-	-	-	85?	-	-
2002-S21	2452352.38	2002 Mar 18 2107:01	Improved Orion	-	NASA 30.47UO	ASRP SRP-4	-	-	-	PF	-	-	-	89	-	-
2002-S40	2452431.95	2002 Jun 6 1041:00	Orion	-	NASA 30.53NO	-	-	-	-	WI	-	-	-	85?	-	-
2002-S47	2452457.57	2002 Jul 2 0144:00	Improved Orion	-	MIDAS	MM-MI-12	-	-	-	AND	-	-	-	106	-	-
2002-S51	2452460.55	2002 Jul 5 0110:00	Improved Orion	-	MIDAS	MM-MI-24	-	-	-	AND	-	-	-	85?	-	-
2002-S52	2452460.57	2002 Jul 5 0142:00	Improved Orion	-	MIDAS	MM-MI-25	-	-	-	AND	-	-	-	85?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2003-A04	2452796.92	2003 Jun 6 1001:00	Orion	-	NASA 30.55NO	Student rocket	-	-	-	WI	-	-	-	40?	-	-
2003-S31	2452821.89	2003 Jul 1 0923:00	Improved Orion	-	ROMA RO-MI-01	ROMA 2003	-	-	-	SVAL	-	-	-	107	-	-
2003-S32	2452824.85	2003 Jul 4 0820:00	Improved Orion	-	ROMA RO-MI-02	ROMA 2003	-	-	-	SVAL	-	-	-	106	-	-
2003-S33	2452826.85	2003 Jul 6 0827:00	Improved Orion	-	ROMA RO-MI-03	ROMA 2003	-	-	-	SVAL	-	-	-	106	-	-
2003-M01	2452921.98	2003 Oct 9 1137:00	Improved Orion	-	NASA 30.54UO	Student rocket	-	-	-	WI	-	-	-	64?	-	-
2004-A06	2453165.94	2004 Jun 9 1035	Orion	-	NASA 30.60NO	Student rocket	-	-	-	WI	-	-	-	43	-	-
2004-S62	2453307.33	2004 Oct 28 1949	Improved Orion	-	SSC REXUS II	EURO REXUS-2/ECOMA	-	-	-	ESR	MRL?	-	-	91	-	-
2005-S02	2453380.69	2005 Jan 10 0437:29	Improved Orion	-	SSC MAGIC	SSC MAGIC 1	-	-	-	ESR	MRL	-	-	95	-	-
2005-S14	2453444.74	2005 Mar 15 0545:00	Improved Orion	-	NASA 30.58UE	DUST	-	-	-	PF	LC3	-	-	105?	-	-
2005-S15	2453444.82	2005 Mar 15 0745:00	Improved Orion	-	NASA 30.59UE	DUST	-	-	-	PF	LC2	-	-	105?	-	-
2005-S20	2453507.97	2005 May 17 1114	Improved Orion	-	NASA 30.56UO	MAGIC 2	-	-	-	WI	-	-	-	90?	-	-
2005-A04	2453530.94	2005 Jun 9 1032	Improved Orion	-	NASA 30.61NO	Student rocket	-	-	-	WI	-	-	-	49?	-	-
2005-S25	2453538.50	2005 Jun 17	Orion	-	-	Target	-	-	-	WS	-	-	-	85?	-	-
2005-S26	2453538.50	2005 Jun 17	Orion	-	-	Target	-	-	-	WS	-	-	-	85?	-	-
2005-S28	2453555.86	2005 Jul 4 0841	Improved Orion	-	HP-200 Hotel	IMEF	-	-	-	AND	-	-	-	100?	-	-
2005-M02	2453622.61	2005 Sep 9 0245	Improved Orion	-	NASA 30.062DR	-	Acoustic monitoring	-	-	WS	-	-	-	50?	-	-
2005-M03	2453622.76	2005 Sep 9 0614	Improved Orion	-	NASA 30.063DR	-	Acoustic monitoring	-	-	WS	-	-	-	50?	-	-
2005-S40	2453642.89	2005 Sep 29 0915:40	Improved Orion	-	NASA 30.070DR	Telemetry Test	-	-	-	WS	-	-	-	90?	-	-
2005-S49	2453684.15	2005 Nov 9 1540	Improved Orion	-	NASA 30.071DR	-	-	-	-	WS	-	-	-	90?	-	-
2006-S08	2453819.88	2006 Mar 25 0900:00	Orion	-	NASA 30.064DR	-	-	-	-	WS	-	-	-	90?	-	-
2006-S09	2453820.05	2006 Mar 25 1307:21	Orion	-	NASA 30.065DR	-	-	-	-	WS	-	-	-	90?	-	-
2006-S11	2453830.75	2006 Apr 5 0556	Improved Orion	-	SSC REXUS 3	EURO REXUS 3	-	-	-	ESR	-	-	-	95	-	-
2006-M01	2453894.97	2006 Jun 8 1111	Orion	-	NASA 30.072NO	Student (SUBSEM)	-	-	-	WI	-	-	-	51	-	-
2006-A03	2453917.80	2006 Jul 1 0705	Improved Orion	-	-	ARR HotPay-1	-	-	-	AND	-	-	-	40?	-	-
2006-S42	2453937.88	2006 Jul 21 0904	Improved Orion	-	NASA 30.066DR	Target?	-	-	-	WS	-	-	-	90?	-	-
2006-S44	2453938.05	2006 Jul 21 1305	Improved Orion	-	NASA 30.067DR	Target?	-	-	-	WS	-	-	-	90?	-	-
2007-A08	2454438.17	2007 Dec 3 1607	Orion	-	-	NCADE Target	-	-	-	WS	-	-	-	20?	-	-
2008-S86	2454558.01	2008 Apr 1 1220	Improved Orion	-	SSC April One	SSC APR ONE	-	-	-	ESR	-	-	-	101	-	-
2008-M03	2454644.94	2008 Jun 27 1036	Orion	-	NASA 30.074NO	RockOn	-	-	-	WI	-	-	-	67	-	-
2008-S52	2454766.79	2008 Oct 27 0704:08	Improved Orion	-	AEB VO1	Parelhas	-	-	-	CLBI	-	-	-	95?	-	-
2009-S01	2454842.47	2009 Jan 10 2317	Improved Orion	-	NASA 30.073UO	ASRP SRP-5 (ISIS)	-	-	-	PF	-	-	-	92?	-	-
2009-S13	2454902.92	2009 Mar 12 1008	Improved Orion	-	SSC REXUS 6	EURO REXUS 6	-	-	-	ESR	-	-	-	88	-	-
2009-S14	2454903.75	2009 Mar 13 0600	Improved Orion	-	SSC REXUS 5	EURO REXUS 5	-	-	-	ESR	-	-	-	87	-	-
2009-S26	2454981.31	2009 May 29 1925	Improved Orion	-	AEB VO2	Maracati 1	-	-	-	ALCA	UL	-	-	93	-	-
2010-S22	2455257.81	2010 Mar 2 0725	Improved Orion	-	SSC REXUS 7	EURO REXUS 7	-	-	-	ESR	-	-	-	83	-	-
2010-S23	2455259.93	2010 Mar 4 1015	Improved Orion	-	SSC REXUS 8	EURO REXUS 8	-	-	-	ESR	-	-	-	88	-	-
2010-S71	2455537.22	2010 Dec 6 1719	Improved Orion	-	AEB VO3	Maracati 2	-	-	-	ALCA	UL	-	-	103	-	-
2011-S04	2455615.04	2011 Feb 22 1256	Improved Orion	-	SSC REXUS 9	EURO REXUS 9	-	-	-	ESR	-	-	-	81	-	-
2011-S05	2455615.92	2011 Feb 23 1000	Improved Orion	-	SSC REXUS 10	EURO REXUS 10	-	-	-	ESR	-	-	-	82	-	-
2011-S61	2455693.25	2011 May 11 1800	Improved Orion	-	AEB VO4	Camurupim	-	-	-	CLBI	-	-	-	100	-	-
2011-S62	2455891.46	2011 Nov 25 2300	Improved Orion	-	AEB VO5	Brasil-Alemanha	-	-	-	CLBI	-	-	-	100?	-	-
2012-S93	2455972.50	2012 Feb 15	Improved Orion	-	ET-1	Economical Target 1	-	-	-	EGL	-	-	-	80?	-	-
2012-S09	2456006.09	2012 Mar 19 1405	Improved Orion	-	SSC REXUS 12	EURO REXUS 12	-	-	-	ESR	-	-	-	82	-	-
2012-M01	2456247.95	2012 Nov 16 1045	Improved Orion	-	SSC REXUS 11	EURO REXUS 11	-	-	-	ESR	-	-	-	79	-	-
2013-S107	2456419.67	2013 May 7 0400	Improved Orion	-	SSC REXUS 14	EURO REXUS 14	-	-	-	ESR	-	-	-	81	-	-
2013-S108	2456421.67	2013 May 9 0400	Improved Orion	-	SSC REXUS 13	EURO REXUS 13	-	-	-	ESR	-	-	-	81?	-	-
2014-S27	2456805.98	2014 May 28 1130	Improved Orion	-	SSC REXUS 16	EURO REXUS 16	-	-	-	ESR	-	-	-	87	-	-
2014-S28	2456806.92	2014 May 29 1000	Improved Orion	-	SSC REXUS 15	EURO REXUS 15	-	-	-	ESR	-	-	-	80	-	-
2014-S83	2457008.67	2014 Dec 17 0400	Improved Orion	-	NASA 30.076DR	CTREX	-	-	-	WS	-	-	-	90?	-	-
2015-S21	2457098.89	2015 Mar 17 0915	Improved Orion	-	SSC REXUS 17	EURO REXUS 17	-	-	-	ESR	-	-	-	81	-	-
2015-S22	2457100.06	2015 Mar 18 1330	Improved Orion	-	SSC REXUS 18	EURO REXUS 18	-	-	-	ESR	-	-	-	81	-	-
2016-S34	2457462.73	2016 Mar 15 0530	Improved Orion	-	SSC REXUS 19	EURO REXUS 19	-	-	-	ESR	-	-	-	81	-	-
2016-S35	2457465.72	2016 Mar 18 0510	Improved Orion	-	SSC REXUS 20	EURO REXUS 20	-	-	-	ESR	-	-	-	81	-	-
2017-S23	2457827.95	2017 Mar 15 1043	Improved Orion	-	SSC REXUS 21	EURO REXUS 21	-	-	-	ESR	-	-	-	86	-	ESR B
2017-S24	2457829.04	2017 Mar 16 1300	Improved Orion	-	SSC REXUS 22	EURO REXUS 22	-	-	-	ESR	-	-	-	84	-	ESR B
2018-A52	2458190.10	2018 Mar 12 1425?	Improved Orion	-	SSC REXUS 24	EURO REXUS 24	-	-	-	ESR	-	-	-	40?	-	ESR B
2019-M01	2458546.87	2019 Mar 4 0850	Improved Orion	-	SSC REXUS 23	EURO REXUS 23	-	-	-	ESR	-	-	-	75	-	ESR B
2019-S09	2458553.89	2019 Mar 11 0920	Improved Orion	-	SSC REXUS 25	EURO REXUS 25	-	-	-	ESR	-	-	-	82	-	ESR B
2019-S13	2458561.90	2019 Mar 19 0940	Improved Orion	-	SSC REXUS 26	EURO REXUS 26	-	-	-	ESR	-	-	-	80	-	ESR B
2020-S43	2459076.60	2020 Aug 15 0226	Improved Orion	-	Pacific Dragon 2020	SSO	-	-	-	KAU	-	-	-	80?	-	-
2023-S02	2459992.00	2023 Feb 16 1200:00	Improved Orion	-	NASA 12.089WT	MesOrion 1	-	-	-	WI	-	-	-	129	-	-
2023-S03	2459992.02	2023 Feb 16 1228:00	Improved Orion	-	NASA 12.090WT	MesOrion 2	-	-	-	WI	-	-	-	125	-	-
2023-S14	2460032.69	2023 Mar 29 0430:00	Improved Orion	-	SSC REXUS 30	EURO REXUS 30	-	-	-	ESR	-	-	-	80	-	ESR B
2023-S11	2460035.68	2023 Apr 1 0420:00	Improved Orion	-	SSC REXUS 29	EURO REXUS 29	-	-	-	ESR	-	-	-	80	-	ESR B
2024-S08	2460381.72	2024 Mar 12 0514:58	Improved Orion	?	SSC REXUS 32	EURO REXUS 32	-	-	-	ESR	-	-	-	80?	-	ESR B
2024-S09	2460384.00	2024 Mar 14 1200	Improved Orion	?	SSC REXUS 31	EURO REXUS 31	-	-	-	ESR	-	-	-	80?	-	ESR B
2025-S09	2460745.89	2025 Mar 11 0915	Improved Orion	?	SSC REXUS 33	EURO REXUS 33	-	-	-	ESR	-	-	-	80?	-	ESR B
2025-S10	2460747.72	2025 Mar 13 0523	Improved Orion	?	SSC REXUS 34	EURO REXUS 34	-	-	-	ESR	-	-	-	80?	-	ESR B

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-M31	2436347.44	1958 May 23 2239	Aerobee 75	-	SS12.48	0.000	SCEL	SS	-	SCEL/	Aeron	IGY	-	-
1958-M16	2436511.04	1958 Nov 3 1252	Aerobee 75	-	SS12.050	0.000	SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-M17	2436515.02	1958 Nov 7 1225:38	Aerobee 75	-	SS12.051	0.000	SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1958-M24	2436530.21	1958 Nov 22 1706:00	Aerobee 75	-	SS12.057	0.000	SCEL	SS	-	UMI/Allen	Aeron	WDCRF	-	-
1974-A23	2442197.33	1974 May 29 1948	Orion	-	NASA 30.01WT	0.000	GSFC	SS	-	WFF/Flowers	Test	WDCRF	Alway-Bash	-
1974-M05	2442360.31	1974 Nov 8 1933	Orion	-	NASA 30.02WT	0.000	GSFC	SS	-	WFF/Flowers	Test	FDC/Ulrich	WISR	-
1977-M01	2443339.02	1977 Jul 14 1230	Orion	-	NASA 12.27GT	0.000	GSFC	SS	-	GSFC/Maksimovic	Test	WDCRF	SRctCon6	-
1978-M01	2443541.97	1978 Feb 2 1110:00	Orion	-	DLR A-O-89	0.000	DFVLR	SS	-	DFVLR/	Range Test	Moraba	ESA-SP135/AND	-
1978-S208	2443765.32	1978 Sep 13 1936	Orion	-	DLR K-O-91	0.000	DFVLR	SS	-	DFVLR/	Range Test	Moraba	ssc.se	-
1979-S236	2444181.89	1979 Nov 4 0927	Orion	-	NASA 30.09IU	0.000	GSFC	SS	-	WFF/Perry	Aeron	JGR88,1468	WISR	-
1980-M05	2444435.30	1980 Jul 14 1911	Orion	-	NASA 30.03UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WDCRF	-	-
1980-S179	2444519.65	1980 Oct 7 0336:42	Orion	-	NASA 30.10GU	0.000	GSFC	SS	-	GSFC/Goldberg	Ionospheric	WDCRF	AND	-
1980-S184	2444524.42	1980 Oct 11 2157:54	Orion	-	NASA 30.11GU	0.000	GSFC	SS	-	GSFC/Goldberg	Ionospheric	WDCRF	AND	-
1980-M06	2444529.29	1980 Oct 16 1854	Orion	-	NASA 30.04UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WDCRF	-	-
1980-S190	2444530.62	1980 Oct 18 0250:25	Orion	-	NASA 30.12GU	0.000	GSFC	SS	-	GSFC/Goldberg	Ionospheric	WDCRF	AND	-
1981-M01	2444663.27	1981 Feb 27 1827	Orion	-	NASA 30.07GU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WDCRF	-	-
1981-S130	2444809.23	1981 Jul 23 1730	Orion	-	NASA 30.14UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WI-PR81-10	-	-
1981-S131	2444809.26	1981 Jul 23 1820	Orion	-	NASA 30.08UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WI-PR81-10	-	-
1981-S146	2444840.50	1981 Aug 24	Orion	-	NASA 30.16UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1981-M15	2444872.08	1981 Sep 24 1350	Orion	-	NASA 30.13UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WDCRF	-	-
1981-M16	2444922.89	1981 Nov 14 0915	Orion	-	DLR K-O-111	0.000	DFVLR	SS	-	MPIK/Arnold	Aeron	ESA81	ESA-SP183	-
1982-S143	2445184.50	1982 Aug 3	Orion	-	NASA 30.21GU	0.000	GSFC	SS	-	GSFC/Mentall	Aeron	WISR	-	-
1983-S45	2445348.23	1983 Jan 13 1731	Orion	-	NASA 30.15UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	WI-PR83-2	-
1983-S46	2445348.28	1983 Jan 13 1839	Orion	-	NASA 30.18UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	WI-PR83-2	-
1983-S92	2445451.73	1983 Apr 27 0530	Orion	-	DLR K-O-117	0.000	DFVLR	SS	-	MPIK/Arnold	Aeron	Moraba	ssc.se	-
1984-M03	2445731.38	1984 Jan 31 2105:36	Orion	-	DLR K-O-129 DROPMAS	0.000	DFVLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	PlanSpaceSci3,315	-
1984-S107	2445929.36	1984 Aug 16 2040	Orion	-	NASA 30.19UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1984-S109	2445935.92	1984 Aug 23 1005	Orion	-	NASA 30.22UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	SFLT26,445	-
1985-S28	2446094.42	1985 Jan 28 2210	Orion	-	NASA 30.23UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1985-S36	2446104.42	1985 Feb 7 2201	Orion	-	NASA 30.24UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1985-S43	2446112.14	1985 Feb 15 1515	Orion	-	DLR N-O-135	0.000	DLR	SS	-	DLR/	Test	Moraba	-	-
1985-S45	2446119.14	1985 Feb 22 1520	Orion	-	DLR N-O-136	0.000	DLR	SS	-	DLR/	Test	Moraba	-	-
1985-S68	2446157.81	1985 Apr 2 0721:01	Orion	-	NASA 30.25UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-S113	2446315.91	1985 Sep 7 0945	Orion	-	NASA 30.26UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-S114	2446318.50	1985 Sep 10 0001:00	Orion	-	NASA 30.28UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-S120	2446326.30	1985 Sep 17 1915	Orion	-	NASA 30.27UU	0.000	GSFC	SS	-	UMI/Horvath	Aeron	WISR	-	-
1985-S129	2446354.92	1985 Oct 16 1001:00	Orion	-	NASA 30.31UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1985-S75	2446199.67	1985 May 14 0400	Orion	-	DLR K-O-140	0.000	DFVLR	SS	-	MPIK/Arnold	Auroral?	Moraba	ESA85	-
1986-S114	2446754.93	1986 Nov 20 1015	Orion	-	NASA 30.33UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1987-S52	2446843.95	1987 Feb 17 1043	Orion	-	DLR K-O-143	0.000	DLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	ssc.se	-
1987-S83	2446921.71	1987 May 6 0508	Orion	-	DLR K-O-145	0.000	DLR	SS	-	MPAE/Duscha	Aeron	Moraba	ESA-SP270-9	-
1987-S111	2447003.47	1987 Jul 26 2322	Orion	-	NASA 30.34UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1987-S152	2447083.95	1987 Oct 15 1052:20	Orion	-	NASA 30.38UE	0.000	GSFC	SS	-	PSU/Mitchell	Aeron	WISR	ESA-SP291-181	-
1987-S161	2447090.40	1987 Oct 21 2134	Orion	-	NASA 30.36UE	0.000	GSFC	SS	-	PSU/Hale	Aeron	WISR	ESA-SP291-181	-
1987-S172	2447111.52	1987 Nov 12 0021:43	Orion	-	NASA 30.37UE	0.000	GSFC	SS	-	PSU/Hale	Aeron	WDCRF	ESA-SP291-181	-
1988-S144	2447501.92	1988 Dec 6 1002	Orion	-	DLR K-O-163	0.000	DLR	SS	-	MPAE/Duscha	Aeron	Moraba	-	-
1989-S32	2447556.85	1989 Jan 30 0830	Orion	-	DLR K-O-166	0.000	DLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	-	-
1990-S31	2447916.87	1990 Jan 25 0850	Orion	-	DLR K-O-172	0.000	DLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	-	-
1990-S56	2447956.85	1990 Mar 6 0830	Improved Orion	-	DLR K-O-174	0.000	DLR	SS	-	MPAE/Duscha	Aeron	ESRLV	-	MORABA:0930Z
1990-S89	2448025.40	1990 May 13 2137:40	Orion	-	NASA 30.35UE	0.000	GSFC	SS	-	PSU/Hale	Plasma	WISR	-	-
1991-S59	2448290.98	1991 Feb 3 1130	Orion	-	DLR K-O-185	0.000	DLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	-	-
1991-S93	2448355.65	1991 Apr 9 0341	Orion	-	DLR K-O-186	0.000	DLR	SS	-	MPAE/Duscha	Aeron	Moraba	-	-
1992-M02	2448887.27	1992 Sep 21 1832	Orion	-	NASA 30.40UP	0.000	GSFC	SS	-	WFF/Johnson	Aeron/Education	WISR	SN921005-12	-
1993-S18	2449045.50	1993 Feb 27	Orion	-	DLR K-O-200	0.000	DLR	SS	-	MPIK/Pfeilsticker	Aeron	Moraba	-	-
1994-S17	2449402.89	1994 Feb 19 0927	Orion	-	DLR K-O-207	0.000	DLR	SF	U	MPAE/Duscha	Aeron	Moraba	-	-
1994-S48	2449549.52	1994 Jul 16 0023	Orion	-	NASA 30.39UE	0.000	GSFC	SS	-	PSU/Croskey	Ionos	WISR	-	-
1994-S59	2449587.32	1994 Aug 22 1938	Orion	-	NASA 30.41UP	0.000	GSFC	SS	-	COSG/Riddle	Plasma/Education	WISR	-	-
1994-M01	2449691.53	1994 Dec 5 0048	Improved Orion	-	SSC HYGROSOND	0.000	SSC	SS	-	STO/TSAO/Khaplanov	Aeron	WWW-SSC	-	-
1995-S49	2449912.83	1995 Jul 14 0750	Improved Orion	-	DLR K-O/I-216	0.000	DLR	SF	U	DLR/	Test	Moraba	-	-
1995-S65	2449998.94	1995 Oct 8 1036	Improved Orion	-	DLR K-O/I-217	0.000	DLR	SS	-	DLR/	Test	Moraba	-	-
1995-S83	2450055.93	1995 Dec 4 1023	Improved Orion	-	SSC REXUS	0.000	SSC	SS	-	SSC/DLR/	Test	WWW-SSC	-	-
1997-S44	2450603.88	1997 Jun 4 0900	Improved Orion	-	SSC GYROTEST	0.000	SSC	SS	-	SSC/	Test	ssc.se	-	-
1998-S41	2450940.25	1998 May 6 1755:58	Orion	-	NASA 30.042NP	0.000	GSFC	SS	-	WFF/Koehler	Education?	WWW-WFF	-	-
1998-S58	2451093.98	1998 Oct 7 1135	Orion	-	DLR K-O-236	0.000	DLR	SS	-	DLR/MBB/	Test	Moraba	ssc.se	-
1999-S46	2451365.50	1999 Jul 6 0006	Improved Orion	-	MD-MI-05	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-A03	2451396.26	1999 Aug 5 1811:05	Orion	-	NASA 30.043NO	0.000	GSFC	SS	-	WFF/Koehler	Education	WWW-WFF	-	-
2000-M01	2451573.93	2000 Jan 30 1025:01	Orion	-	NASA 30.044UP	0.000	GSFC	SS	-	UAF/Hawkins	Education	WWW-WFF	www.uaf.edu/agsp	-
2000-S28	2451671.21	2000 May 6 1708:00	Improved Orion	-	MS-MI-03	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2000-S29	2451679.53	2000 May 15 0046:00	Improved Orion	-	MS-MI-05	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2000-S36	2451713.96	2000 Jun 18 1103:00	Orion	-	NASA 30.045NO	0.000	GSFC	SS	-	WFF/Koehler	Education	WWW-WFF	-	-
2001-S11	2451959.75	2001 Feb 19 0602:00	Improved Orion	-	DLR K-O-?	0.000	DLR	SS	-	EADS/SSC/	Test	ESR-WWW	ESA-SP530-144	-
2001-A05	2452026.94	2001 Apr 27 1035:05	Orion	-	NASA 30.046UO	0.000	GSFC	SS	-	UVA/Laufer	Education	WWW-WFF	-	-
2001-S22	2452044.58	2001 May 15 0157:00	Improved Orion	-	HiN-2	0.000	NDRE	SS	-	NDRE/ARR/	Test	hin2.samfunnet.no	ESA-SP471	-
2001-S24	2452066.95	2001 Jun 6 1050:00	Orion	-	NASA 30.048NO	0.000	GSFC	SS	-	WFF/Koehler	Education	WWW-WFF	-	-
2001-S25	2452077.50	2001 Jun 17 0005	Improved Orion	-	SO-MI-05	0.000	NDRE	SS	-	NDRE/IAP/	Aeron/Ionos	AND-WWW	-	-
2001-S27	2452085.39	2001 Jun 24 2121:15	Improved Orion	-	SO-MI-11	0.000	NDRE	SS	-	NDRE/IAP/	Aeron/Ionos	AND-WWW	-	-
2001-S59	2452259.72	2001 Dec 16 0512	Improved Orion	-	SSC Hygrosond-2	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2002-S13	2452340.88	2002 Mar 7 0907:51	Improved Orion	-	NASA 30.49UE	0.000	GSFC	SS	-	UNH/Lynch	Ionos	www.wff.nasa.gov	-	-
2002-S14	2452348.97	2002 Mar 15 1115:41	Improved Orion	-	NASA 30.52UE	0.000	GSFC	SS	-	UNH/Lynch	Aeron?	www.wff.nasa.gov	-	-
2002-S15	2452349.04	2002 Mar 15 1303:51	Improved Orion	-	NASA 30.50UE	0.000	GSFC	SS	-	UNH/Lynch	Aeron?	www.wff.nasa.gov	-	-
2002-S16	2452349.07	2002 Mar 15 1342:31	Improved Orion	-	NASA 30.51UE	0.000	GSFC	SS	-	UNH/Lynch	Aeron?	www.wff.nasa.gov	-	-
2002-S21	2452352.38	2002 Mar 18 2107:01	Improved Orion	-	NASA 30.47UO	0.000	GSFC	SS	-	UAF/Hawkins	Education/Ionos	www.wff.nasa.gov	-	-
2002-S40	2452431.95	2002 Jun 6 1041:00	Orion	-	NASA 30.53NO	0.000	GSFC	SS	-	WFF/Koehler	Education	www.wff.nasa.gov	-	-
2002-S47	2452457.57	2002 Jul 2 0144:00	Improved Orion	-	MIDAS	0.000	DLR	SS	-	NDRE/IAP/Blix	Aeron,Fields	AND-WWW	ESA-SP530-334	-
2002-S51	2452460.55	2002 Jul 5 0110:00	Improved Orion	-	MIDAS	0.000	DLR	SS	-	NDRE/IAP/Blix	Aeron	AND-WWW	-	-
2002-S52	2452460.57	2002 Jul 5 0142:00	Improved Orion	-	MIDAS	0.000	DLR	SS	-	NDRE/IAP/Blix	Aeron	AND-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2003-A04	2452796.92	2003 Jun 6 1001:00	Orion	-	NASA 30.55NO	0.000	GSFC	SS	-	WFF/Parrott	Education	www.wff.nasa.gov	-	-
2003-S31	2452821.89	2003 Jul 1 0923:00	Improved Orion	-	ROMA RO-MI-01	0.000	DLR	SS	-	IAP/NDRE/Lubken	Aeron	www.rocketrange.no	ESA-SP590-191	-
2003-S32	2452824.85	2003 Jul 4 0820:00	Improved Orion	-	ROMA RO-MI-02	0.000	DLR	SS	-	IAP/NDRE/Lubken	Aeron	www.rocketrange.no	ESA-SP590-191	-
2003-S33	2452826.85	2003 Jul 6 0827:00	Improved Orion	-	ROMA RO-MI-03	0.000	DLR	SS	-	IAP/NDRE/Lubken	Aeron	AdvSpR38,2388	ESA-SP590-191	-
2003-M01	2452921.98	2003 Oct 9 1137:00	Improved Orion	-	NASA 30.54UO	0.000	GSFC	SS	-	UVA/Laufer	Education	www.wff.nasa.gov	-	-
2004-A06	2453165.94	2004 Jun 9 1035	Orion	-	NASA 30.60NO	0.000	GSFC	SS	-	WFF/Parrott	Education	www.wff.nasa.gov	-	-
2004-S62	2453307.33	2004 Oct 28 1949	Improved Orion	-	SSC REXUS II	0.000	EUROL	SS	-	SSC/DLR/	Education/Meteor	www.ssc.se	ESASP-590-81	-
2005-S02	2453380.69	2005 Jan 10 0437:29	Improved Orion	-	SSC MAGIC	0.000	SSC	SS	-	STO/NRL/Gumbel	Meteorite dust	www.ssc.se	ESASP-590-139	-
2005-S14	2453444.74	2005 Mar 15 0545:00	Improved Orion	-	NASA 30.58UE	0.000	GSFC	SS	-	DART/Lynch	Aeron/Dust	www.wff.nasa.gov	-	-
2005-S15	2453444.82	2005 Mar 15 0745:00	Improved Orion	-	NASA 30.59UE	0.000	GSFC	SS	-	DART/Lynch	Aeron/Dust	www.wff.nasa.gov	-	-
2005-S20	2453507.97	2005 May 17 1114	Improved Orion	-	NASA 30.56UO	0.000	GSFC	SS	-	VAP/Hall	Aeron	www.wff.nasa.gov	-	-
2005-A04	2453530.94	2005 Jun 9 1032	Improved Orion	-	NASA 30.61NO	0.000	GSFC	SS	-	WFF/Justis	Education	www.wff.nasa.gov	-	-
2005-S25	2453538.50	2005 Jun 17	Orion	-	-	0.000	SMDC?	MS	-	-	Target	www.osd.acq.mil	-	-
2005-S26	2453538.50	2005 Jun 17	Orion	-	-	0.000	SMDC?	MS	-	-	Target	www.osd.acq.mil	-	-
2005-S28	2453555.86	2005 Jul 4 0841	Improved Orion	-	HP-200 Hotel	0.000	NDRE	SS	-	OSLO/TROM/	Aeron/Ionos	www.rocketrange.no	-	-
2005-M02	2453622.61	2005 Sep 9 0245	Improved Orion	-	NASA 30.062DR	0.000	GSFC	SS	-	NAWC/Winstead	Calib	www.wff.nasa.gov	-	-
2005-M03	2453622.76	2005 Sep 9 0614	Improved Orion	-	NASA 30.063DR	0.000	GSFC	SS	-	NAWC/Winstead	Calib	www.wff.nasa.gov	-	-
2005-S40	2453642.89	2005 Sep 29 0915:40	Improved Orion	-	NASA 30.070DR	0.000	GSFC	SS	-	NAWC/Winstead	Test	www.wff.nasa.gov	-	-
2005-S49	2453684.15	2005 Nov 9 1540	Improved Orion	-	NASA 30.071DR	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S08	2453819.88	2006 Mar 25 0900:00	Orion	-	NASA 30.064DR	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S09	2453820.05	2006 Mar 25 1307:21	Orion	-	NASA 30.065DR	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S11	2453830.75	2006 Apr 5 0556	Improved Orion	-	SSC REXUS 3	0.000	EUROL	SS	-	SSC/DLR Student	Education	www.dlr.de	-	-
2006-M01	2453894.97	2006 Jun 8 1111	Orion	-	NASA 30.072NO	0.000	GSFC	SS	-	WFF/Justis	Education	www.wff.nasa.gov	-	-
2006-A03	2453917.80	2006 Jul 1 0705	Improved Orion	-	-	0.000	ARR	SF	U	STO/Gumbel	Aeron	www.rocketrange.no	-	-
2006-S42	2453937.88	2006 Jul 21 0904	Improved Orion	-	NASA 30.066DR	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S44	2453938.05	2006 Jul 21 1305	Improved Orion	-	NASA 30.067DR	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2007-A08	2454438.17	2007 Dec 3 1607	Orion	-	-	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2008-S86	2454558.01	2008 Apr 1 1220	Improved Orion	-	SSC April One	0.000	SSC	SS	-	SSC/Grahn	Test	www.ssc.se	-	-
2008-M03	2454644.94	2008 Jun 27 1036	Orion	-	NASA 30.074NO	0.000	GSFC	SS	-	WFF/Eberspeaker	Education	nasaspaceflight.com	www.wff.nasa.gov	-
2008-S52	2454766.79	2008 Oct 27 0704:08	Improved Orion	-	AEB VO1	0.000	AEB/DLR	SS	-	DLR/AEB/	Test?	fab.mil	-	-
2009-S01	2454842.47	2009 Jan 10 2317	Improved Orion	-	NASA 30.073UO	0.000	GSFC	SS	-	UAF/Thorsen	Plasma	www.uaf.edu	-	-
2009-S13	2454902.92	2009 Mar 12 1008	Improved Orion	-	SSC REXUS 6	0.000	EUROL	SS	-	FREIB/BERG/Ernst,Holland	Ionos/Tech	www.ssc.se	-	-
2009-S14	2454903.75	2009 Mar 13 0600	Improved Orion	-	SSC REXUS 5	0.000	EUROL	SS	-	IAP/TTY/UPC/Strelnikova	Aeron/Tech	www.ssc.se	-	-
2009-S26	2454981.31	2009 May 29 1925	Improved Orion	-	AEB VO2	0.000	AEB/DLR	SS	-	DLR/AEB/	Test	www.bemparana.com.br	-	-
2010-S22	2455257.81	2010 Mar 2 0725	Improved Orion	-	SSC REXUS 7	0.000	EUROL	SS	-	AACH/ROSAP/IAP/Vetter	Aeron/Tech	www.ssc.se	-	-
2010-S23	2455259.93	2010 Mar 4 1015	Improved Orion	-	SSC REXUS 8	0.000	EUROL	SS	-	TUB/KTH/	Tech	www.ssc.se	-	-
2010-S71	2455537.22	2010 Dec 6 1719	Improved Orion	-	AEB VO3	0.000	AEB	SS	-	AEB/	Test	www.fab.mil.br	[1519 LT]	-
2011-S04	2455615.04	2011 Feb 22 1256	Improved Orion	-	SSC REXUS 9	0.000	EUROL	SS	-	EUROL/	Tech	www.ssc.se	-	-
2011-S05	2455615.92	2011 Feb 23 1000	Improved Orion	-	SSC REXUS 10	0.000	EUROL	SS	-	EUROL/	Tech	www.ssc.se	-	-
2011-S61	2455693.25	2011 May 11 1800	Improved Orion	-	AEB VO4	0.000	AEB	SS	-	AEB/	Tech	aer.mil.bar	[1500LT]	-
2011-S62	2455891.46	2011 Nov 25 2300	Improved Orion	-	AEB VO5	0.000	AEB	SS	-	AEB/DLR/	Tech	aer.mil.bar	[2000LT]	-
2012-S93	2455972.50	2012 Feb 15	Improved Orion	-	ET-1	0.000	SMDC	MS	-	-	Target	army.mil	-	-
2012-S09	2456006.09	2012 Mar 19 1405	Improved Orion	-	SSC REXUS 12	0.000	EUROL	SS	-	EUROL/	Tech	www.ssc.se	-	-
2012-M01	2456247.95	2012 Nov 16 1045	Improved Orion	-	SSC REXUS 11	0.000	EUROL	SS	-	EUROL/	Tech	www.ssc.se	-	-
2013-S107	2456419.67	2013 May 7 0400	Improved Orion	-	SSC REXUS 14	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2013-S108	2456421.67	2013 May 9 0400	Improved Orion	-	SSC REXUS 13	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2014-S27	2456805.98	2014 May 28 1130	Improved Orion	-	SSC REXUS 16	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2014-S28	2456806.92	2014 May 29 1000	Improved Orion	-	SSC REXUS 15	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2014-S83	2457008.67	2014 Dec 17 0400	Improved Orion	-	NASA 30.076DR	0.000	GSFC	SS	-	NSWCPH/Gammill	Tech	www.wff.nasa.gov	-	-
2015-S21	2457098.89	2015 Mar 17 0915	Improved Orion	-	SSC REXUS 17	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2015-S22	2457100.06	2015 Mar 18 1330	Improved Orion	-	SSC REXUS 18	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2016-S34	2457462.73	2016 Mar 15 0530	Improved Orion	-	SSC REXUS 19	0.000	EUROL	SS	-	EUROL/	Tech/Aeron	www.sscspace.com	-	-
2016-S35	2457465.72	2016 Mar 18 0510	Improved Orion	-	SSC REXUS 20	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2017-S23	2457827.95	2017 Mar 15 1043	Improved Orion	-	SSC REXUS 21	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2017-S24	2457829.04	2017 Mar 16 1300	Improved Orion	-	SSC REXUS 22	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2018-A52	2458190.10	2018 Mar 12 1425?	Improved Orion	-	SSC REXUS 24	0.000	EUROL	SF	U	EUROL/	Tech	www.sscspace.com	-	-
2019-M01	2458546.87	2019 Mar 4 0850	Improved Orion	-	SSC REXUS 23	0.000	EUROL	SS	-	EUROL/	Tech	esa.int	-	-
2019-S09	2458553.89	2019 Mar 11 0920	Improved Orion	-	SSC REXUS 25	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2019-S13	2458561.90	2019 Mar 19 0940	Improved Orion	-	SSC REXUS 26	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2020-S43	2459076.60	2020 Aug 15 0226	Improved Orion	-	Pacific Dragon 2020	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2023-S02	2459992.00	2023 Feb 16 1200:00	Improved Orion	-	NASA 12.089WT	0.000	GSFC	SS	-	WFF/Edwards	Tech	youtube.com	-	-
2023-S03	2459992.02	2023 Feb 16 1228:00	Improved Orion	-	NASA 12.090WT	0.000	GSFC	SS	-	WFF/Edwards	Tech	youtube.com	-	-
2023-S14	2460032.69	2023 Mar 29 0430:00	Improved Orion	-	SSC REXUS 30	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2023-S11	2460035.68	2023 Apr 1 0420:00	Improved Orion	-	SSC REXUS 29	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2024-S08	2460381.72	2024 Mar 12 0514:58	Improved Orion	?	SSC REXUS 32	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2024-S09	2460384.00	2024 Mar 14 1200	Improved Orion	?	SSC REXUS 31	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2025-S09	2460745.89	2025 Mar 11 0915	Improved Orion	?	SSC REXUS 33	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-
2025-S10	2460747.72	2025 Mar 13 0523	Improved Orion	?	SSC REXUS 34	0.000	EUROL	SS	-	EUROL/	Tech	www.sscspace.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-M39	2439056.50	1965 Oct 23	SSBS S112	-	2601	Essai 1	-	-	-	HMG	Brigitte	-	-	50?	-	-
1965-M41	2439067.50	1965 Nov 3	SSBS S112	-	2602	Essai 2	-	-	-	HMG	Brigitte	-	-	50?	-	-
1966-M08	2439171.50	1966 Feb 15	SSBS S112	-	2603	Silo 1	-	-	-	CEL	BLB	-	-	50?	-	-
1966-M19	2439271.50	1966 May 26	MSBS M112	-	-	Essai 1	-	-	-	HMG	Brigitte	-	-	50?	-	-
1966-M20	2439276.50	1966 Jun	MSBS M112	-	-	Essai 2	-	-	-	HMG	Brigitte	-	-	50?	-	-
1966-M23	2439283.50	1966 Jun 7	SSBS S112	-	2604	Silo 2	-	-	-	CEL	BLB	-	-	50?	-	-
1966-M25	2439318.50	1966 Jul 12	MSBS M112	-	-	Caisson 1	-	-	-	CERES	Nemo	-	-	50?	-	-
1966-M40	2439439.50	1966 Nov 10	SSBS S112	-	2605	Silo 3	-	-	-	CEL	BLB	-	-	50?	-	-
1966-M01	2439521.50	1967 Feb	MSBS M112	-	-	Caisson 2	-	-	-	CERES	Nemo	-	-	50?	-	-
1967-M06	2439551.50	1967 Mar 2	SSBS S112	-	2606	Silo 4	-	-	-	CEL	BLB	-	-	50?	-	-
1967-M01	2439549.50	1967 Mar?	MSBS M112	-	-	Caisson 3	-	-	-	CERES	Nemo	-	-	50?	-	-
1967-M08	2439599.50	1967 Apr 19	MSBS M112	-	-	Gymnote 1	-	-	S655	CERES	-	-	-	50?	-	-
1967-M15	2439696.50	1967 Jul 25	SSBS S01	-	-	S01V-1	-	-	-	CEL	BLB	-	-	50?	-	-
1967-M18	2439804.50	1967 Nov 10	SSBS S01	-	-	S01V-2	-	-	-	CEL	BLB	-	-	50?	-	-
1967-M02	2439490.50	1967	MSBS M112	-	-	Gymnote 2	-	-	S655	CERES	-	-	-	50?	-	-
1967-M03	2439490.50	1967	MSBS M112	-	-	Gymnote 3	-	-	S655	CERES	-	-	-	50?	-	-
1967-A42	2439490.50	1967	MSBS M112	-	-	Gymnote 4 RSO Test	-	-	S655	CERES	-	-	-	10?	-	-
1967-M04	2439490.50	1967	MSBS M011	-	-	Caisson 1	-	-	-	CERES	Nemo	-	-	50?	-	-
1968-M02	2439855.50	1968	MSBS M011	-	-	Caisson 2	-	-	-	CERES	Nemo	-	-	50?	-	-
1968-S08	2439855.50	1968	MSBS M012	-	A2	A2	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S09	2439855.50	1968	MSBS M012	-	B1	B1	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S10	2439855.50	1968	MSBS M012	-	B2	B2	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S11	2439855.50	1968?	MSBS M013	-	V2	V2	-	-	S655	CEL	-	-	-	500?	-	-
1968-S12	2439855.50	1968?	MSBS M013	-	V3	V3	-	-	S655	CEL	-	-	-	500?	-	-
1968-S80	2439868.50	1968 Jan 13	MSBS M012	-	A1	A1	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S95	2439878.50	1968 Jan 23	SSBS S01	-	-	S01V-3	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S258	2439955.50	1968 Apr 9	SSBS S01	-	-	S01V-4	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S391	2440040.50	1968 Jul 3	SSBS S01	-	-	S01V-5	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S424	2440063.50	1968 Jul 26	SSBS S01	-	-	S01V-6	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S523	2440137.50	1968 Oct 8	SSBS S01	-	-	S01C-1	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S575	2440169.50	1968 Nov 9	SSBS S01	-	-	S01C-2	-	-	-	CEL	BLB	-	-	500?	-	-
1968-S586	2440176.50	1968 Nov 16	MSBS M013	-	V1	V1 Vecteur	-	-	S655	CEL	-	-	-	500?	-	-
1969-S03	2440221.50	1969?	MSBS M013	-	V4	V4	-	-	S655	CEL	-	-	-	500?	-	-
1969-S04	2440221.50	1969?	MSBS M013	-	V5	V5	-	-	S655	CEL	-	-	-	500?	-	-
1969-S05	2440221.50	1969?	MSBS M013	-	V6	V6	-	-	S655	CEL	-	-	-	500?	-	-
1970-S01	2440586.50	1970?	MSBS M013	-	V7	V7	-	-	S655	CEL	-	-	-	500?	-	-
1970-S393	2440748.50	1970 Jun 11	MSBS M013	-	C1	C1 Charge (RV)	-	-	S655	CEL	-	-	-	500?	-	-
1970-S02	2440586.50	1970?	MSBS M013	-	C2	C2	-	-	S655	CEL	-	-	-	500?	-	-
1970-S03	2440586.50	1970?	MSBS M013	-	C3	C3	-	-	S655	CEL	-	-	-	500?	-	-
1970-S04	2440586.50	1970?	MSBS M013	-	C4	C4	-	-	S655	CEL	-	-	-	500?	-	-
1971-S06	2440951.50	1971?	MSBS M013	-	C5	C5	-	-	S655	CEL	-	-	-	500?	-	-
1971-S07	2440951.50	1971?	MSBS M013	-	C6	C6	-	-	S655	CEL	-	-	-	500?	-	-
1971-S08	2440951.50	1971?	MSBS M013	-	C7	C7	-	-	S655	CEL	-	-	-	500?	-	-
1971-S09	2440951.50	1971	MSBS M013	-	C8	C8	-	-	S655	CEL	-	-	-	500?	-	-
1971-S10	2440951.50	1971?	MSBS M1	-	-	-	-	-	S655	CEL	-	-	-	500?	-	-
1971-S318	2441100.92	1971 May 29 1000?	MSBS M1	-	-	-	-	-	S611	CEL	-	-	-	500	-	-
1971-S344	2441128.50	1971 Jun 26	MSBS M1	-	-	-	-	-	S611	CEL	-	-	-	500?	-	-
1972-S04	2441316.50	1972?	MSBS M1	-	-	-	-	-	S612	CEL	-	-	-	500?	-	-
1973-S244	2441883.50	1973 Jul 20	MSBS M2	-	-	-	-	-	-	CEL	BLB	-	-	600?	-	-
1973-S01	2441682.50	1973	MSBS M2	-	-	-	-	-	S655	CEL	-	-	-	600?	-	-
1973-S02	2441682.50	1973?	MSBS M2	-	-	-	-	-	S610	CEL	-	-	-	600?	-	-
1974-S217	2442210.50	1974 Jun 12	MSBS M20	-	-	-	-	-	-	CEL	BLB	-	-	600?	-	-
1976-S160	2442875.50	1976 Apr 7	MSBS M20	-	-	-	-	-	S613	CEL	-	-	-	600?	-	-
1979-S155	2444054.50	1979 Jul	MSBS M20	-	-	-	-	-	S613?	CEL	-	-	-	600?	-	-
1980-S02	2444238.50	1980?	MSBS M20	-	-	-	-	-	S614	CEL	-	-	-	600?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-M39	2439056.50	1965 Oct 23	SSBS S112	-	2601	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1965-M41	2439067.50	1965 Nov 3	SSBS S112	-	2602	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1966-M08	2439171.50	1966 Feb 15	SSBS S112	-	2603	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1966-M19	2439271.50	1966 May 26	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	deCordemoy	Serra	-
1966-M20	2439276.50	1966 Jun	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1966-M23	2439283.50	1966 Jun 7	SSBS S112	-	2604	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1966-M25	2439318.50	1966 Jul 12	MSBS M112	-	-	0.000	DMA	MU	-	-	Test	deCordemoy	Serra	-
1966-M40	2439439.50	1966 Nov 10	SSBS S112	-	2605	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1966-M01	2439521.50	1967 Feb	MSBS M112	-	-	0.000	DMA	MU	-	-	Test	Villain	Serra	-
1967-M06	2439551.50	1967 Mar 2	SSBS S112	-	2606	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1967-M01	2439549.50	1967 Mar?	MSBS M112	-	-	0.000	DMA	MU	-	-	Test	Villain	Serra	-
1967-M08	2439599.50	1967 Apr 19	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	deCordemoy	Serra	-
1967-M15	2439696.50	1967 Jul 25	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1967-M18	2439804.50	1967 Nov 10	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1967-M02	2439490.50	1967	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1967-M03	2439490.50	1967	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1967-A42	2439490.50	1967	MSBS M112	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1967-M04	2439490.50	1967	MSBS M011	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-M02	2439855.50	1968	MSBS M011	-	-	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-S08	2439855.50	1968	MSBS M012	-	A2	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-S09	2439855.50	1968	MSBS M012	-	B1	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-S10	2439855.50	1968	MSBS M012	-	B2	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-S11	2439855.50	1968?	MSBS M013	-	V2	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1968-S12	2439855.50	1968?	MSBS M013	-	V3	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1968-S80	2439868.50	1968 Jan 13	MSBS M012	-	A1	0.000	DMA	MS	-	-	Test	Villain	Serra	-
1968-S95	2439878.50	1968 Jan 23	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1968-S258	2439955.50	1968 Apr 9	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1968-S391	2440040.50	1968 Jul 3	SSBS S01	-	-	0.000	DMA	MS	-	-	Test	Sentinelles	Serra/SP-4010	-
1968-S424	2440063.50	1968 Jul 26	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1968-S523	2440137.50	1968 Oct 8	SSBS S01	-	-	0.000	DMA	MU	-	-	Test	Sentinelles	Serra	-
1968-S575	2440169.50	1968 Nov 9	SSBS S01	-	-	0.000	DMA	MS	-	-	Test	Sentinelles	Serra	-
1968-S586	2440176.50	1968 Nov 16	MSBS M013	-	V1	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1969-S03	2440221.50	1969?	MSBS M013	-	V4	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1969-S04	2440221.50	1969?	MSBS M013	-	V5	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1969-S05	2440221.50	1969?	MSBS M013	-	V6	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1970-S01	2440586.50	1970?	MSBS M013	-	V7	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1970-S393	2440748.50	1970 Jun 11	MSBS M013	-	C1	0.000	DMA	MS	-	-	OT	deCordemoy	Villain	-
1970-S02	2440586.50	1970?	MSBS M013	-	C2	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1970-S03	2440586.50	1970?	MSBS M013	-	C3	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1970-S04	2440586.50	1970?	MSBS M013	-	C4	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S06	2440951.50	1971?	MSBS M013	-	C5	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S07	2440951.50	1971?	MSBS M013	-	C6	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S08	2440951.50	1971?	MSBS M013	-	C7	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S09	2440951.50	1971	MSBS M013	-	C8	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S10	2440951.50	1971?	MSBS M1	-	-	0.000	DMA	MS	-	-	OT	Villain	Serra	-
1971-S318	2441100.92	1971 May 29 1000?	MSBS M1	-	-	0.000	DMA	MS	-	-	OT	www.defense.gouv.fr	Villain	-
1971-S344	2441128.50	1971 Jun 26	MSBS M1	-	-	0.000	DMA	MS	-	-	OT	www.defense.gouv.fr	www.netmarine.net	-
1972-S04	2441316.50	1972?	MSBS M1	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-
1973-S244	2441883.50	1973 Jul 20	MSBS M2	-	-	0.000	DMA	MS	-	-	OT	deCordemoy	Villain	-
1973-S01	2441682.50	1973	MSBS M2	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-
1973-S02	2441682.50	1973?	MSBS M2	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-
1974-S217	2442210.50	1974 Jun 12	MSBS M20	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-
1976-S160	2442875.50	1976 Apr 7	MSBS M20	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-
1979-S155	2444054.50	1979 Jul	MSBS M20	-	-	0.000	DMA	MS	-	-	OT	Barensky,pc	-	-
1980-S02	2444238.50	1980?	MSBS M20	-	-	0.000	DMA	MS	-	-	OT	Villain	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S657	2440211.50	1968 Dec 21	SSBS S02	-	V1	S02V-1	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S293	2440334.50	1969 Apr 23	SSBS S02	-	V2	S02V-2	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S351	2440371.50	1969 May 30	SSBS S02	-	V3	S02V-3	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S377	2440396.50	1969 Jun 24	SSBS S02	-	V4	S02V-4	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S418	2440427.50	1969 Jul 25	SSBS S02	-	C1	S02C-1	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S541	2440507.50	1969 Oct 13	SSBS S02	-	C2	S02C-2	-	-	-	CEL	BLB	-	-	1000?	-	-
1969-S655	2440565.50	1969 Dec 10	SSBS S02	-	C3	S02C3	-	-	-	CEL	BLB	-	-	1000?	-	-
1970-S310	2440696.50	1970 Apr 20	SSBS S02	-	C4	S02C4	-	-	-	CEL	BLB	-	-	1000?	-	-
1970-S531	2440853.50	1970 Sep 24	SSBS S02	-	C5	S02C5	-	-	-	CEL	BLB	-	-	1000?	-	-
1970-S599	2440900.50	1970 Nov 10	SSBS S02	-	C6	S02C6	-	-	-	CEL	BLB	-	-	1000?	-	-
1971-S610	2441301.50	1971 Dec 16	SSBS S02	-	S-1E-2601	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1973-S68	2441727.50	1973 Feb 14	SSBS S02	-	2601	S02C 2601	-	-	-	CEL	BLB	-	-	1000?	-	-
1973-S105	2441756.50	1973 Mar 15	SSBS S02	-	2602	S02C 2602	-	-	-	CEL	BLB	-	-	1000?	-	-
1973-S308	2441943.50	1973 Sep 18	SSBS S2	-	S-1E-2602	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1974-S81	2442077.50	1974 Jan 30	SSBS S2	-	S-1E-2603	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1974-S221	2442216.50	1974 Jun 18	SSBS S2	-	S-1E-2604	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1975-S209	2442587.50	1975 Jun 24	SSBS S2	-	S-1E-2605	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1976-S194	2442930.50	1976 Jun 1	SSBS S2	-	S-1E-2606	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1976-S342	2443115.50	1976 Dec 3	SSBS S3	-	V1	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1977-S111	2443218.50	1977 Mar 16	SSBS S2	-	S-1E-2607	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1977-S147	2443247.50	1977 Apr 14	SSBS S3	-	V2	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1977-S212	2443324.50	1977 Jun 30	SSBS S3	-	V3	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1977-S283	2443464.50	1977 Nov 17	SSBS S3	-	V4	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1978-S101	2443603.50	1978 Apr 5	SSBS S3	-	V5	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1978-S161	2443679.50	1978 Jun 20	SSBS S3	-	V6	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1978-S247	2443844.50	1978 Dec 2	SSBS S3	-	V7	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1979-S99	2443952.50	1979 Mar 20	SSBS S3	-	V8	-	-	-	-	CEL	BLB	-	-	1000?	-	-
1979-S164	2444070.50	1979 Jul 16	SSBS S3	-	TS-2601	Qualification	-	-	-	CEL	BLB	-	-	1000?	-	-
1980-S229	2444583.50	1980 Dec 10	SSBS S3	-	2601	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1981-S115	2444758.50	1981 Jun 3	SSBS S3	-	2602	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1982-S117	2445114.50	1982 May 25	SSBS S3	-	2603	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1982-S131	2445146.50	1982 Jun 26	SSBS S3	-	2605	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1983-S122	2445510.50	1983 Jun 25	SSBS S3	-	2606	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1983-S184	2445611.50	1983 Oct 4	SSBS S3	-	2604	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1986-S21	2446471.50	1986 Feb 10	SSBS S3	-	2607	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1987-S98	2446956.50	1987 Jun 10	SSBS S3	-	2608	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1989-S117	2447606.50	1989 Mar 21	SSBS S3	-	-	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1989-S61	2447695.50	1989 Jun 18	SSBS S3	-	2609	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1991-S114	2448431.50	1991 Jun 24	SSBS S3	-	26010	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-
1993-S67	2449294.50	1993 Nov 3	SSBS S3	-	26011	Tir d'exercice	-	-	-	CEL	BLB	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S657	2440211.50	1968 Dec 21	SSBS S02	-	V1	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S293	2440334.50	1969 Apr 23	SSBS S02	-	V2	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S351	2440371.50	1969 May 30	SSBS S02	-	V3	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S377	2440396.50	1969 Jun 24	SSBS S02	-	V4	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S418	2440427.50	1969 Jul 25	SSBS S02	-	C1	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S541	2440507.50	1969 Oct 13	SSBS S02	-	C2	0.000	DMA	MS	-	-	Test	Villain	-	-
1969-S655	2440565.50	1969 Dec 10	SSBS S02	-	C3	0.000	DMA	MS	-	-	Test	Villain	-	-
1970-S310	2440696.50	1970 Apr 20	SSBS S02	-	C4	0.000	DMA	MS	-	-	Test	Villain	-	-
1970-S531	2440853.50	1970 Sep 24	SSBS S02	-	C5	0.000	DMA	MS	-	-	Test	Villain	-	-
1970-S599	2440900.50	1970 Nov 10	SSBS S02	-	C6	0.000	DMA	MS	-	-	Test	Villain	-	-
1971-S610	2441301.50	1971 Dec 16	SSBS S02	-	S-1E-2601	0.000	DMA	MS	-	-	OT	Villain	-	-
1973-S68	2441727.50	1973 Feb 14	SSBS S02	-	2601	0.000	DMA	MS	-	-	Test	Villain	-	-
1973-S105	2441756.50	1973 Mar 15	SSBS S02	-	2602	0.000	DMA	MS	-	-	Test	Villain	-	-
1973-S308	2441943.50	1973 Sep 18	SSBS S2	-	S-1E-2602	0.000	DMA	MS	-	-	OT	Villain	-	-
1974-S81	2442077.50	1974 Jan 30	SSBS S2	-	S-1E-2603	0.000	DMA	MS	-	-	OT	Villain	-	-
1974-S221	2442216.50	1974 Jun 18	SSBS S2	-	S-1E-2604	0.000	DMA	MS	-	-	OT	Villain	-	-
1975-S209	2442587.50	1975 Jun 24	SSBS S2	-	S-1E-2605	0.000	DMA	MS	-	-	OT	Villain	-	-
1976-S194	2442930.50	1976 Jun 1	SSBS S2	-	S-1E-2606	0.000	DMA	MS	-	-	OT	Villain	-	-
1976-S342	2443115.50	1976 Dec 3	SSBS S3	-	V1	0.000	DMA	MS	-	-	Test	Villain	-	-
1977-S111	2443218.50	1977 Mar 16	SSBS S2	-	S-1E-2607	0.000	DMA	MS	-	-	OT	Villain	-	-
1977-S147	2443247.50	1977 Apr 14	SSBS S3	-	V2	0.000	DMA	MS	-	-	Test	Villain	-	-
1977-S212	2443324.50	1977 Jun 30	SSBS S3	-	V3	0.000	DMA	MS	-	-	Test	Villain	-	-
1977-S283	2443464.50	1977 Nov 17	SSBS S3	-	V4	0.000	DMA	MS	-	-	Test	Villain	-	-
1978-S101	2443603.50	1978 Apr 5	SSBS S3	-	V5	0.000	DMA	MS	-	-	Test	Villain	-	-
1978-S161	2443679.50	1978 Jun 20	SSBS S3	-	V6	0.000	DMA	MS	-	-	Test	Villain	-	-
1978-S247	2443844.50	1978 Dec 2	SSBS S3	-	V7	0.000	DMA	MS	-	-	Test	Villain	-	-
1979-S99	2443952.50	1979 Mar 20	SSBS S3	-	V8	0.000	DMA	MS	-	-	Test	Villain	-	-
1979-S164	2444070.50	1979 Jul 16	SSBS S3	-	TS-2601	0.000	DMA	MS	-	-	Test	Villain	-	-
1980-S229	2444583.50	1980 Dec 10	SSBS S3	-	2601	0.000	DMA	MS	-	-	OT	Villain	-	-
1981-S115	2444758.50	1981 Jun 3	SSBS S3	-	2602	0.000	DMA	MS	-	-	OT	Villain	-	-
1982-S117	2445114.50	1982 May 25	SSBS S3	-	2603	0.000	DMA	MS	-	-	OT	Villain	-	-
1982-S131	2445146.50	1982 Jun 26	SSBS S3	-	2605	0.000	DMA	MS	-	-	OT	Villain	-	-
1983-S122	2445510.50	1983 Jun 25	SSBS S3	-	2606	0.000	DMA	MS	-	-	OT	Villain	-	-
1983-S184	2445611.50	1983 Oct 4	SSBS S3	-	2604	0.000	DMA	MS	-	-	OT	Villain	-	-
1986-S21	2446471.50	1986 Feb 10	SSBS S3	-	2607	0.000	DMA	MS	-	-	OT	Villain	-	-
1987-S98	2446956.50	1987 Jun 10	SSBS S3	-	2608	0.000	DMA	MS	-	-	OT	Villain	-	-
1989-S117	2447606.50	1989 Mar 21	SSBS S3	-	-	0.000	DMA	MS	-	-	OT	AWST890327-34	-	-
1989-S61	2447695.50	1989 Jun 18	SSBS S3	-	2609	0.000	DMA	MS	-	-	OT	Villain	-	-
1991-S114	2448431.50	1991 Jun 24	SSBS S3	-	26010	0.000	DMA	MS	-	-	OT	Villain	-	-
1993-S67	2449294.50	1993 Nov 3	SSBS S3	-	26011	0.000	DMA	MS	-	-	OT	Villain	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-A82	2442013.50	1973 Nov 27	PRS-1 5Ya26	-	PRS-1	Test	-	-	-	BALKH	-	-	-	40?	-	-
1978-A59	2443508.50	1978	PRS-1 5Ya26	-	PRS-1	Test	-	-	-	BALKH	-	-	-	40?	-	-
1979-A49	2444085.50	1979 Aug	PRS-1	-	53T6	Ejection Test	-	-	-	BALKH	LC35/1	-	-	0	-	-
1980-A60	2444329.50	1980 Apr?	PRS-1	-	53T6	Ejection Test	-	-	-	BALKH	LC35/1	-	-	0	-	-
1981-A37	2444785.50	1981 Jul	PRS-1 5Ya26	-	PRS-1	Test	-	-	-	BALKH	LC35	-	-	40?	-	-
1982-A41	2445087.50	1982 Apr 28	PRS-1 5Ya26	-	PRS-1	Intercept Test	8K65U intercept	-	-	BALKH	LC35	-	-	40?	-	-
1982-A42	2445138.50	1982 Jun 18	PRS-1 5Ya26	?	PRS-1	Intercept Test	4K75D intercept	-	-	BALKH	LC35	-	-	40?	-	-
1982-A48	2445138.62	1982 Jun 18 0300	PRS-1	-	PRS-1	-	15Zh45 intercept	-	-	BALKH	LC35	-	-	40?	-	-
1982-A44	2445273.50	1982 Nov?	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1982-A45	2445273.50	1982 Nov?	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1982-A46	2445273.50	1982 Nov?	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1982-A47	2445273.50	1982 Nov?	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1984-A43	2445759.50	1984 Mar	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1987-A36	2446854.50	1987 Mar	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1987-A37	2446854.50	1987 Mar	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1987-A38	2446854.50	1987 Mar	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1987-A39	2446854.50	1987 Mar	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1987-A35	2447068.50	1987 Oct?	PRS-1	-	53T6	Amur-P LKI	-	-	-	BALKH	LC35	-	-	40?	-	-
1988-A95	2447160.50	1988	PRS-1	-	53T6	Amur-P K-1	-	-	-	BALKH	LC35	-	-	40?	-	-
1988-A97	2447160.50	1988	PRS-1	-	53T6	Amur-P K-2	-	-	-	BALKH	LC35	-	-	40?	-	-
1988-A98	2447342.50	1988 Jul	PRS-1	-	53T6	Amur-P K-3	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A23	2447526.50	1989	PRS-1	-	53T6	Amur-P	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A24	2447526.50	1989	PRS-1	-	53T6	Amur-P	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A25	2447526.50	1989	PRS-1	-	53T6	Amur-P	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A26	2447526.50	1989	PRS-1	-	53T6	Samolet-M	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A27	2447526.50	1989	PRS-1	-	53T6	Samolet-M	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A28	2447526.50	1989	PRS-1	-	53T6	Samolet-M	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A29	2447526.50	1989	PRS-1	-	53T6	Samolet-M	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A30	2447526.50	1989	PRS-1	-	53T6	Samolet-M	-	-	-	BALKH	LC35	-	-	40?	-	-
1989-A22	2447860.50	1989 Dec	PRS-1	-	53T6	LKI-II	Amur-P	-	-	BALKH	LC35	-	-	40?	-	-
1999-A05	2451485.12	1999 Nov 2 1451	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2004-S67	2453338.83	2004 Nov 29 0800	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2006-A08	2454074.83	2006 Dec 5 0800	PRS-1	-	53T6	UBP	No. 655-0561-8022-088	-	-	BALKH	LC35/2	-	-	40?	-	-
2007-A06	2454384.83	2007 Oct 11 0801	PRS-1	-	53T6	UBP	No. 655-0531-9035-095	-	-	BALKH	LC35	-	-	40?	-	-
2007-A07	2454403.83	2007 Oct 30 0800	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2009-A07	2455133.50	2009 Oct 29	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2010-A23	2455495.50	2010 Oct 26	PRS-1	-	53T6	UBP	No. 655-0531-8021-090	-	-	BALKH	LC35	-	-	40?	-	-
2011-A05	2455915.83	2011 Dec 20 0801	PRS-1	-	53T6	UBP	No. 655-0561-9054-100	-	-	BALKH	LC35/2	-	-	40?	-	-
2012-A19	2456216.83	2012 Oct 16 0801	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2013-A20	2456595.50	2013 Oct 30	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2014-A08	2456785.50	2014 May 8	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35	-	-	40?	-	-
2015-A07	2457182.86	2015 Jun 9 0832	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2016-A37	2457560.67	2016 Jun 21 0400	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2017-A07	2457920.50	2017 Jun 16	PRS-1	-	53T6	UBP	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2017-A100	2458080.50	2017 Nov 23	PRS-1M	-	53T6M No. 0102	LKI-1	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2018-A10	2458160.50	2018 Feb 11?	PRS-1M	?	53T6M	LKI-2	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2018-A193	2458209.50	2018 Apr 1?	PRS-1M	?	53T6M	LKI-3	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2018-A92	2458318.50	2018 Jul 19?	PRS-1M	?	53T6M No. 0101	LKI-4	-	-	-	BALKH	LC35/1	-	-	40?	-	-
2018-A133	2458359.50	2018 Aug 29?	PRS-1M	-	53T6M	LKI-5	-	-	-	BALKH	LC35/2	-	-	40?	-	-
2018-A187	2458452.50	2018 Nov 30?	PRS-1M	-	53T6M	LKI-6	-	-	-	BALKH	LC35/1	-	-	40?	-	-
2019-A88	2458638.50	2019 Jun 4	PRS-1M	-	53T6M	LKI-7	-	-	-	BALKH	LC35	-	-	40?	-	-
2020-A23	2459150.50	2020 Oct 28	PRS-1M	-	53T6M	-	-	-	-	BALKH	LC35	-	-	40?	-	-
2020-A24	2459179.50	2020 Nov 26	PRS-1M	-	53T6M	-	-	-	-	BALKH	LC35	-	-	40?	-	-
2021-A06	2459330.50	2021 Apr 26?	PRS-1M	-	53T6M	-	-	-	-	BALKH	LC35	-	-	40?	-	-
2021-A28	2459467.50	2021 Sep 10	PRS-1M	-	53T6M	-	-	-	-	BALKH	LC35	-	-	5?	-	-
2022-A38	2459914.50	2022 Dec 1	PRS-1M	-	53T6M	-	-	-	-	BALKH	LC35	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-A82	2442013.50	1973 Nov 27	PRS-1 5Ya26	-	PRS-1	0.000	PRO	MS	-	-	Test	Pervov-RKO	-	-
1978-A59	2443508.50	1978	PRS-1 5Ya26	-	PRS-1	0.000	PRO	MS	-	-	Test	kursakov.narod.ru	-	-
1979-A49	2444085.50	1979 Aug	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	kursakov.narod.ru	-	-
1980-A60	2444329.50	1980 Apr?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1981-A37	2444785.50	1981 Jul	PRS-1 5Ya26	-	PRS-1	0.000	PRO	MS	-	-	Test	kursakov.narod.ru	-	-
1982-A41	2445087.50	1982 Apr 28	PRS-1 5Ya26	-	PRS-1	0.000	PRO	MS	-	-	ABM Test	RML	kursakov.narod.ru	-
1982-A42	2445138.50	1982 Jun 18	PRS-1 5Ya26	?	PRS-1	0.000	PRO	MS	-	-	ABM Test	kursakov.narod.ru	-	-
1982-A48	2445138.62	1982 Jun 18 0300	PRS-1	-	PRS-1	0.000	PRO	MS	-	-	Test	RML	-	-
1982-A44	2445273.50	1982 Nov?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1982-A45	2445273.50	1982 Nov?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1982-A46	2445273.50	1982 Nov?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1982-A47	2445273.50	1982 Nov?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1984-A43	2445759.50	1984 Mar	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1987-A36	2446854.50	1987 Mar	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1987-A37	2446854.50	1987 Mar	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1987-A38	2446854.50	1987 Mar	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1987-A39	2446854.50	1987 Mar	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1987-A35	2447068.50	1987 Oct?	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1988-A95	2447160.50	1988	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1988-A97	2447160.50	1988	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1988-A98	2447342.50	1988 Jul	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A23	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A24	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A25	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A26	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A27	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A28	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A29	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A30	2447526.50	1989	PRS-1	-	53T6	0.000	PRO	MS	-	-	Test	RML	-	-
1989-A22	2447860.50	1989 Dec	PRS-1	-	53T6	0.000	PRO	MS	-	-	ABM Test	kursakov.narod.ru	-	-
1999-A05	2451485.12	1999 Nov 2 1451	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	kursakov.narod.ru	russianforces.org	-
2004-S67	2453338.83	2004 Nov 29 0800	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2006-A08	2454074.83	2006 Dec 5 0800	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2007-A06	2454384.83	2007 Oct 11 0801	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2007-A07	2454403.83	2007 Oct 30 0800	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2009-A07	2455133.50	2009 Oct 29	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2010-A23	2455495.50	2010 Oct 26	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2011-A05	2455915.83	2011 Dec 20 0801	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2012-A19	2456216.83	2012 Oct 16 0801	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2013-A20	2456595.50	2013 Oct 30	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2014-A08	2456785.50	2014 May 8	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2015-A07	2457182.86	2015 Jun 9 0832	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2016-A37	2457560.67	2016 Jun 21 0400	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2017-A07	2457920.50	2017 Jun 16	PRS-1	-	53T6	0.000	PRO	MS	-	-	Op Test	russianforces.org	-	-
2017-A100	2458080.50	2017 Nov 23	PRS-1M	-	53T6M No. 0102	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2018-A10	2458160.50	2018 Feb 11?	PRS-1M	?	53T6M	0.000	PRO	MS	-	-	Test	redstar.ru	-	-
2018-A193	2458209.50	2018 Apr 1?	PRS-1M	?	53T6M	0.000	PRO	MS	-	-	Test	RML	-	-
2018-A92	2458318.50	2018 Jul 19?	PRS-1M	?	53T6M No. 0101	0.000	PRO	MS	-	-	Test	RML	russianforces.org	-
2018-A133	2458359.50	2018 Aug 29?	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2018-A187	2458452.50	2018 Nov 30?	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2019-A88	2458638.50	2019 Jun 4	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2020-A23	2459150.50	2020 Oct 28	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2020-A24	2459179.50	2020 Nov 26	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2021-A06	2459330.50	2021 Apr 26?	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2021-A28	2459467.50	2021 Sep 10	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-
2022-A38	2459914.50	2022 Dec 1	PRS-1M	-	53T6M	0.000	PRO	MS	-	-	Test	russianforces.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-F03	2449250.72	1993 Sep 20 0512	PSLV	-	PSLV-D1	IRS-1E	IRS-1E	-	-	SHAR	FLP	-	-	349	-	-
1994-068	2449640.71	1994 Oct 15 0505	PSLV	-	PSLV-D2	IRS-P2	IRS-P2	-	-	SHAR	FLP	-	-	884	-	-
1996-017	2450163.70	1996 Mar 21 0453	PSLV	-	PSLV-D3	IRS-P3	IRS-P3	-	-	SHAR	FLP	-	-	851	-	-
1997-057	2450720.70	1997 Sep 29 0447	PSLV	C	PSLV-C1	IRS-1D	IRS-1D	-	-	SHAR	FLP	-	-	834	-	-
1999-029	2451324.77	1999 May 26 0622	PSLV	C	PSLV-C2	IRS-P4	KITSAT-3	-	-	SHAR	FLP	-	-	740	-	-
2001-015	2452017.93	2001 Apr 18 1013	GSLV Mk I	a	GSLV-D1	GSAT-1	GSAT-1	-	-	SHAR	FLP	-	-	35859	-	-
2001-049	2452204.70	2001 Oct 22 0453:00	PSLV	C	PSLV-C3	TES	TES	-	-	SHAR	FLP	-	-	677	-	-
2002-043	2452529.93	2002 Sep 12 1023:40	PSLV	C	PSLV-C4	METSAT	METSAT-1	-	-	SHAR	FLP	-	-	36379	-	-
2003-018	2452767.98	2003 May 8 1128	GSLV Mk I	a	GSLV-D2	GSAT-2	GSAT-2	-	-	SHAR	FLP	-	-	37999	-	-
2003-046	2452929.70	2003 Oct 17 0452:08	PSLV	C	PSLV-C5	IRS-P6	IRS-P6	-	-	SHAR	FLP	-	-	877	-	-
2004-036	2453268.94	2004 Sep 20 1031	GSLV Mk I	b	GSLV-F01	GSAT-3	GSAT-3	-	-	SHAR	FLP	-	-	36097	-	-
2005-017	2453495.70	2005 May 5 0445	PSLV	C	PSLV-C6	Cartosat	Cartosat-1	-	-	SHAR	SLP	-	-	719	-	-
2006-F02	2453927.01	2006 Jul 10 1208	GSLV Mk I	b	GSLV-F02	Insat 4C	Insat 4C	-	-	SHAR	SLP	-	-	40?	-	-
2007-001	2454110.66	2007 Jan 10 0354	PSLV	C	PSLV-C7	Cartosat-2/SRE	LAPAN-TUBSAT	-	-	SHAR	FLP	-	-	653	-	-
2007-013	2454213.92	2007 Apr 23 1000	PSLV	CA	PSLV-C8	AGILE/AAM	AGILE	-	-	SHAR	SLP	-	-	553	-	-
2007-037	2454346.04	2007 Sep 2 1251	GSLV Mk I	b	GSLV-F04	Insat 4CR	INSAT 4CR	-	-	SHAR	SLP	-	-	36235	-	-
2008-002	2454486.66	2008 Jan 21 0345	PSLV	CA	PSLV-C10	Tecsar	TecSAR-1	-	-	SHAR	FLP	-	-	586	-	-
2008-021	2454584.66	2008 Apr 28 0353:51	PSLV	CA	PSLV-C9	Cartosat-2A/IMS-1	PSLV Rideshare 01	-	-	SHAR	SLP	-	-	664	-	-
2008-052	2454761.54	2008 Oct 22 0052:11	PSLV-XL	-	PSLV-C11	Chandraayan-1	Chandrayaan-1	-	-	SHAR	SLP	-	-	150000	-	-
2009-019	2454941.55	2009 Apr 20 0115	PSLV	CA	PSLV-C12	RISAT-2/Anusat	TecSAR-2	-	-	SHAR	SLP	-	-	565	-	-
2009-051	2455097.76	2009 Sep 23 0621	PSLV	CA	PSLV-C14	Oceansat-2	PSLV Rideshare 02	-	-	SHAR	FLP	-	-	796	-	-
2010-F01	2455301.96	2010 Apr 15 1057	GSLV Mk II	-	GSLV-D3	GSAT-4	GSAT-4	-	-	SHAR	SLP	-	-	137	-	-
2010-035	2455389.66	2010 Jul 12 0352	PSLV	CA	PSLV-C15	Cartosat-2B	PSLV Rideshare 03	-	-	SHAR	FLP	-	-	675	-	-
2010-F04	2455555.94	2010 Dec 25 1034	GSLV Mk I	c	GSLV-F06	GSAT-5P	GSAT-5 Prime	-	-	SHAR	SLP	-	-	15	-	-
2011-015	2455671.70	2011 Apr 20 0442	PSLV	C	PSLV-C16	Resourcesat-2	Resourcesat-2	-	-	SHAR	FLP	-	-	825	-	-
2011-034	2455757.97	2011 Jul 15 1118	PSLV-XL	-	PSLV-C17	GSAT-12	GSAT-12	-	-	SHAR	SLP	-	-	35957	-	-
2011-058	2455846.73	2011 Oct 12 0531	PSLV	CA	PSLV-C18	Megha-Tropiques	Megha-Tropiques	-	-	SHAR	FLP	-	-	874	-	-
2012-017	2456043.51	2012 Apr 26 0017	PSLV-XL	-	PSLV-C19	RISAT-1	RISAT-1	-	-	SHAR	FLP	-	-	550	-	-
2012-047	2456179.68	2012 Sep 9 0423	PSLV	CA	PSLV-C21	SPOT-6	SPOT 6	-	-	SHAR	FLP	-	-	700	-	-
2013-009	2456349.02	2013 Feb 25 1231	PSLV	CA	PSLV-C20	SARAL/Sapphire	PSLV Rideshare 04	-	-	SHAR	FLP	-	-	788	-	-
2013-034	2456475.26	2013 Jul 1 1811	PSLV-XL	-	PSLV-C22	IRNSS-1A	IRNSS-1A	-	-	SHAR	FLP	-	-	35923	-	-
2013-060	2456601.88	2013 Nov 5 0908	PSLV-XL	-	PSLV-C25	MOM	Mars Orbiter Spacecraft	-	-	SHAR	FLP	-	-	150000	-	-
2014-001	2456662.95	2014 Jan 5 1048	GSLV Mk II	-	GSLV-D5	GSAT-14	GSAT-14	-	-	SHAR	SLP	-	-	35847	-	-
2014-017	2456751.99	2014 Apr 4 1144	PSLV-XL	-	PSLV-C24	IRNSS-1B	IRNSS-1B	-	-	SHAR	FLP	-	-	36454	-	-
2014-034	2456838.68	2014 Jun 30 0422	PSLV	CA	PSLV-C23	SPOT-7	PSLV Rideshare 05	-	-	SHAR	FLP	-	-	699	-	-
2014-061	2456946.33	2014 Oct 15 2002	PSLV-XL	-	PSLV-C26	IRNSS-1C	IRNSS-1C	-	-	SHAR	FLP	-	-	35888	-	-
2015-018	2457109.99	2015 Mar 28 1149	PSLV-XL	-	PSLV-C27	IRNSS-1D	IRNSS-1D	-	-	SHAR	FLP	-	-	35887	-	-
2015-032	2457214.19	2015 Jul 10 1628	PSLV-XL	-	PSLV-C28	DMC3	DMC3	-	-	SHAR	FLP	-	-	665	-	-
2015-041	2457261.97	2015 Aug 27 1122	GSLV Mk II	-	GSLV-D6	GSAT-6	GSAT-6	-	-	SHAR	SLP	-	-	35837	-	-
2015-052	2457293.69	2015 Sep 28 0430	PSLV-XL	-	PSLV-C30	ASTROSAT	PSLV Rideshare 06	-	-	SHAR	FLP	-	-	686	-	-
2015-077	2457373.02	2015 Dec 16 1230	PSLV	CA	PSLV-C29	TeLEOS-1	TeLEOS-1	-	-	SHAR	FLP	-	-	573	-	-
2016-003	2457407.67	2016 Jan 20 0401	PSLV-XL	-	PSLV-C31	IRNSS-1E	IRNSS-1E	-	-	SHAR	SLP	-	-	36064	-	-
2016-015	2457457.94	2016 Mar 10 1031	PSLV-XL	-	PSLV-C32	IRNSS-1F	IRNSS-1F	-	-	SHAR	SLP	-	-	35885	-	-
2016-027	2457506.81	2016 Apr 28 0720	PSLV-XL	-	PSLV-C33	IRNSS-1G	IRNSS-1G	-	-	SHAR	FLP	-	-	35854	-	-
2016-040	2457561.66	2016 Jun 22 0355	PSLV-XL	-	PSLV-C34	Cartosat-2(S)	PSLV Rideshare 07	Cartosat-2C	-	SHAR	SLP	-	-	522	-	-
2016-054	2457639.97	2016 Sep 8 1120	GSLV Mk II	-	GSLV-F05	Insat-3DR	Insat-3DR	-	-	SHAR	SLP	-	-	36021	-	-
2016-059	2457657.65	2016 Sep 26 0342	PSLV	C	PSLV-C35	Scatsat-1	PSLV Rideshare 08	-	-	SHAR	FLP	-	-	736	-	-
2016-074	2457729.70	2016 Dec 7 0454	PSLV-XL	-	PSLV-C36	Resourcesat-2A	Resourcesat-2A	-	-	SHAR	FLP	-	-	846	-	-
2017-008	2457799.67	2017 Feb 15 0358	PSLV-XL	-	PSLV-C37	Cartosat-2(S)/Flock-3p	PSLV Rideshare 09	Cartosat-2D	-	SHAR	FLP	-	-	522	-	-
2017-024	2457878.98	2017 May 5 1127	GSLV Mk II	-	GSLV-F09	GSAT-9	GSAT-9	-	-	SHAR	SLP	-	-	35949	-	-
2017-036	2457927.67	2017 Jun 23 0359	PSLV-XL	-	PSLV-C38	Cartosat-2(S)/Cubesats	PSLV Rideshare 10	Cartosat-2E	-	SHAR	FLP	-	-	685	-	-
2017-051	2457997.06	2017 Aug 31 1330	PSLV-XL	-	PSLV-C39	IRNSS-1H	IRNSS-1H	-	-	SHAR	SLP	-	-	6563	-	-
2018-004	2458130.67	2018 Jan 12 0359	PSLV-XL	-	PSLV-C40	Cartosat-2(S)/Cubesats	PSLV Rideshare 11	Cartosat-2ER	-	SHAR	FLP	-	-	1008	-	-
2018-027	2458206.98	2018 Mar 29 1126:00	GSLV Mk II	b	GSLV-F08	GSAT-6A	GSAT-6A	-	-	SHAR	SLP	-	-	57815	-	-
2018-035	2458220.44	2018 Apr 11 2234:00	PSLV-XL	-	PSLV-C41	IRNSS-1I	IRNSS-1I	-	-	SHAR	FLP	-	-	45282	-	-
2018-071	2458378.19	2018 Sep 16 1638	PSLV	CA	PSLV-C42	NovaSAR-S/S1-4	PSLV Rideshare 12	-	-	SHAR	FLP	-	-	618	-	-
2018-096	2458451.69	2018 Nov 29 0427:30	PSLV	CA	PSLV-C43	HySIS/Cubesats	PSLV Rideshare 13	-	-	SHAR	FLP	-	-	649	-	-
2018-105	2458471.94	2018 Dec 19 1040	GSLV Mk II	c	GSLV-F11	GSAT-7A	GSAT-7A	-	-	SHAR	SLP	-	-	42013	-	-
2019-006	2458508.25	2019 Jan 24 1807:00	PSLV-DL	-	PSLV-C44	Microsat-R	Microsat-R	-	-	SHAR	FLP	-	-	452	-	-
2019-018	2458574.66	2019 Apr 1 0357:00	PSLV-QL	-	PSLV-C45	EMISAT	PSLV Rideshare 14	-	-	SHAR	SLP	-	-	753	-	-
2019-028	2458625.50	2019 May 22 0000	PSLV	CA	PSLV-C46	RISAT-2B	RISAT-2B	-	-	SHAR	FLP	-	-	618	-	-
2019-081	2458814.67	2019 Nov 27 0358	PSLV-XL	-	PSLV-C47	Cartosat-3	PSLV Rideshare 15	-	-	SHAR	SLP	-	-	563	-	-
2019-089	2458828.91	2019 Dec 11 0955	PSLV-QL	-	PSLV-C48	RISAT-2BR1	PSLV Rideshare 16	RISAT-2BR1	-	SHAR	FLP	-	-	582	-	-
2020-081	2459160.90	2020 Nov 7 0941	PSLV-DL	-	PSLV-C49	EOS-01	PSLV Rideshare 17	RISAT-2BR2	-	SHAR	FLP	-	-	588	-	-
2020-099	2459200.92	2020 Dec 17 1011	PSLV-XL	-	PSLV-C50	CMS-01	GSAT-12R	-	-	SHAR	SLP	-	-	35823	-	-
2021-015	2459273.70	2021 Feb 28 0454	PSLV-DL	-	PSLV-C51	Amazonia-1	PSLV Rideshare 18	-	-	SHAR	FLP	-	-	760	-	-
2021-F06	2459438.51	2021 Aug 12 0013	GSLV Mk II	c	GLSV-F10	EOS-03	GISAT-1	-	-	SHAR	SLP	-	-	-	-	-
2022-013	2459624.52	2022 Feb 14 0029	PSLV-XL	-	PSLV-C52	EOS-04	RISAT-1A	-	-	SHAR	FLP	-	-	542	-	-
2022-072	2459761.02	2022 Jun 30 1232	PSLV	CA	PLSV-C53	DS-EO	DS-EO/POEM	-	-	SHAR	SLP	-	-	623	-	-
2022-158	2459909.77	2022 Nov 26 0626	PSLV-XL	-	PSLV-C54	EOS-06	PSLV Rideshare 19	Oceansat-3	-	SHAR	FLP	-	-	-	-	-
2023-057	2460056.87	2023 Apr 22 0850	PSLV	CA	PSLV-C55	TeLEOS-2	TeLEOS-2	-	-	SHAR	FLP	-	-	-	-	-
2023-076	2460093.72	2023 May 29 0512	GSLV Mk II	c	GSLV-F12	NVS-01	IRNSS-1J	-	-	SHAR	SLP	-	-	-	-	-
2023-109	2460155.54	2023 Jul 30 0101:00	PSLV	CA	PSLV-C56	DS-SAR	DS-SAR	-	-	SHAR	FLP	-	-	-	-	-
2023-132	2460189.76	2023 Sep 2 0620:00	PSLV-XL	-	PSLV-C57	Aditya-L1	Aditya-L1	-	-	SHAR	SLP	-	-	-	-	-
2024-001	2460310.65	2024 Jan 1 0340:00	PSLV-DL	-	PSLV-C58	XPoSAT	XPoSAT	-	-	SHAR	FLP	-	-	-	-	-
2024-033	2460358.00	2024 Feb 17 1205	GSLV Mk II	c	GSLV-F14	Insat-2DS	INSAT-2DS	-	-	SHAR	SLP	-	-	-	-	-
2024-233	2460649.94	2024 Dec 5 1034	PSLV-XL	-	PSLV-C59	PROBA-3	PROBA-3	-	-	SHAR	FLP	-	-	-	-	-
2024-253	2460675.19	2024 Dec 30 1630:15	PSLV	CA	PSLV-C60	SPADEX	SPADEX	-	-	SHAR	FLP	-	-	-	-	-
2025-020	2460704.54	2025 Jan 29 0053	GSLV Mk II	c	GSLV-F15	NVS-02	IRNSS-1K?	-	-	SHAR	SLP	-	-	-	-	-
2025-F05	2460813.52	2025 May 18 0029	PSLV-XL	-	PSLV-C61	EOS-09	RISAT-1B	-	-	SHAR	FLP	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-F03	2449250.72	1993 Sep 20 0512	PSLV	-	PSLV-D1	0.846	ISRO	OF	S3G	G	Sat SSO O	SN930927-28	-	Software error after S2S
1994-068	2449640.71	1994 Oct 15 0505	PSLV	-	PSLV-D2	0.805	ISRO	OS	-	G	Sat SSO O	WSL	-	-
1996-017	2450163.70	1996 Mar 21 0453	PSLV	-	PSLV-D3	0.922	ISRO	OS	-	G	Sat SSO O	SN960325-03	-	-
1997-057	2450720.70	1997 Sep 29 0447	PSLV	C	PSLV-C1	1.200	ISRO	OS75	S4P	G	Sat SSO O	Wire	AWST971006-30	Pressure loss in S4
1999-029	2451324.77	1999 May 26 0622	PSLV	C	PSLV-C2	1.191	ISRO	OS	-	G	Sat SSO O	Wire	Wire	-
2001-015	2452017.93	2001 Apr 18 1013	GSLV Mk I	a	GSLV-D1	1.530	ISRO	OS80	S3P	G	Sat GTO O	Wire	Wire	Performance low
2001-049	2452204.70	2001 Oct 22 0453:00	PSLV	C	PSLV-C3	1.294	ISRO	OS	-	G	Sat SSO O	www.dlr.de	www.isro.org	-
2002-043	2452529.93	2002 Sep 12 1023:40	PSLV	C	PSLV-C4	1.060	ISRO	OS	-	G	Sat GTO SO	CurrSci83-1081	-	-
2003-018	2452767.98	2003 May 8 1128	GSLV Mk I	a	GSLV-D2	1.800	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2003-046	2452929.70	2003 Oct 17 0452:08	PSLV	C	PSLV-C5	1.360	ISRO	OS	-	G	Sat SSO O	NK0312-36	-	-
2004-036	2453268.94	2004 Sep 20 1031	GSLV Mk I	b	GSLV-F01	1.950	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2005-017	2453495.70	2005 May 5 0445	PSLV	C	PSLV-C6	1.603	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2006-F02	2453927.01	2006 Jul 10 1208	GSLV Mk I	b	GSLV-F02	2.168	ISRO	OF	S0P	G	Sat GTO O	Wire	-	Gas generator in L40 strapon
2007-001	2454110.66	2007 Jan 10 0354	PSLV	C	PSLV-C7	1.342	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2007-013	2454213.92	2007 Apr 23 1000	PSLV	CA	PSLV-C8	0.632	ISRO	OS	-	G/OG	Sat LEO O	Wire	-	-
2007-037	2454346.04	2007 Sep 2 1251	GSLV Mk I	b	GSLV-F04	2.130	ISRO	OS75	S0U	G	Sat GTO O	Wire	-	L40 stuck actuator
2008-002	2454486.66	2008 Jan 21 0345	PSLV	CA	PSLV-C10	0.300	ISRO	OS	-	G/OG	Sat LEO O	Wire	-	-
2008-021	2454584.66	2008 Apr 28 0353:51	PSLV	CA	PSLV-C9	0.806	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2008-052	2454761.54	2008 Oct 22 0052:11	PSLV-XL	-	PSLV-C11	1.409	ISRO	DS	-	G	Sat GTO O	Wire	-	-
2009-019	2454941.55	2009 Apr 20 0115	PSLV	CA	PSLV-C12	0.350	ISRO	OS	-	G	Sat LEO O	Wire	-	-
2009-051	2455097.76	2009 Sep 23 0621	PSLV	CA	PSLV-C14	0.980	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2010-F01	2455301.96	2010 Apr 15 1057	GSLV Mk II	-	GSLV-D3	2.200	ISRO	OF	S3P	G	Sat GTO O	Wire	-	Turbopump failed
2010-035	2455389.66	2010 Jul 12 0352	PSLV	CA	PSLV-C15	0.818	ISRO	OS	-	G	Sat SSO O 1	Wire	-	-
2010-F04	2455555.94	2010 Dec 25 1034	GSLV Mk I	c	GSLV-F06	2.250	ISRO	OF	S0P	G	Sat GTO O	Wire	-	Broken connectors
2011-015	2455671.70	2011 Apr 20 0442	PSLV	C	PSLV-C16	1.403	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2011-034	2455757.97	2011 Jul 15 1118	PSLV-XL	-	PSLV-C17	1.410	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2011-058	2455846.73	2011 Oct 12 0531	PSLV	CA	PSLV-C18	1.042	ISRO	OS	-	G	Sat LEO O	Wire	-	-
2012-017	2456043.51	2012 Apr 26 0017	PSLV-XL	-	PSLV-C19	1.858	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2012-047	2456179.68	2012 Sep 9 0423	PSLV	CA	PSLV-C21	0.728	ISRO	OS	-	G/C	Sat SSO O	Wire	-	-
2013-009	2456349.02	2013 Feb 25 1231	PSLV	CA	PSLV-C20	0.854	ISRO	OS	-	G	Sat SSO O 1	Wire	-	-
2013-034	2456475.26	2013 Jul 1 1811	PSLV-XL	-	PSLV-C22	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2013-060	2456601.88	2013 Nov 5 0908	PSLV-XL	-	PSLV-C25	1.337	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2014-001	2456662.95	2014 Jan 5 1048	GSLV Mk II	-	GSLV-D5	1.982	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2014-017	2456751.99	2014 Apr 4 1144	PSLV-XL	-	PSLV-C24	1.432	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2014-034	2456838.68	2014 Jun 30 0422	PSLV	CA	PSLV-C23	0.740	ISRO	OS	-	G/C	Sat SSO O	Wire	-	-
2014-061	2456946.33	2014 Oct 15 2002	PSLV-XL	-	PSLV-C26	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2015-018	2457109.99	2015 Mar 28 1149	PSLV-XL	-	PSLV-C27	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2015-032	2457214.19	2015 Jul 10 1628	PSLV-XL	-	PSLV-C28	1.489	ISRO	OS	-	G/C	Sat SSO SO	Wire	-	-
2015-041	2457261.97	2015 Aug 27 1122	GSLV Mk II	-	GSLV-D6	2.217	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2015-052	2457293.69	2015 Sep 28 0430	PSLV-XL	-	PSLV-C30	1.611	ISRO	OS	-	G/G+C	Sat LEO SO	Wire	-	-
2015-077	2457373.02	2015 Dec 16 1230	PSLV	CA	PSLV-C29	0.622	ISRO	OS	-	G/C	Sat LEO L	Wire	-	-
2016-003	2457407.67	2016 Jan 20 0401	PSLV-XL	-	PSLV-C31	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2016-015	2457457.94	2016 Mar 10 1031	PSLV-XL	-	PSLV-C32	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2016-027	2457506.81	2016 Apr 28 0720	PSLV-XL	-	PSLV-C33	1.425	ISRO	OS	-	G	Sat GTO SO	Wire	-	-
2016-040	2457561.66	2016 Jun 22 0355	PSLV-XL	-	PSLV-C34	1.257	ISRO	OS	-	G/G+C	Sat SSO L 1	Wire	-	-
2016-054	2457639.97	2016 Sep 8 1120	GSLV Mk II	-	GSLV-F05	2.211	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2016-059	2457657.65	2016 Sep 26 0342	PSLV	C	PSLV-C35	0.664	ISRO	OS	-	G/G+C	Sat SSO O 1	Wire	-	-
2016-074	2457729.70	2016 Dec 7 0454	PSLV-XL	-	PSLV-C36	1.255	ISRO	OS	-	G	Sat SSO O	Wire	-	-
2017-008	2457799.67	2017 Feb 15 0358	PSLV-XL	-	PSLV-C37	1.197	ISRO	OS	-	G/G+C	Sat SSO O	Wire	-	-
2017-024	2457878.98	2017 May 5 1127	GSLV Mk II	-	GSLV-F09	2.230	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2017-036	2457927.67	2017 Jun 23 0359	PSLV-XL	-	PSLV-C38	0.899	ISRO	OS	-	G/G+C	Sat SSO L	Wire	-	-
2017-051	2457997.06	2017 Aug 31 1330	PSLV-XL	-	PSLV-C39	3.445	ISRO	OF20	FF	G	Sat GTO SO	Wire	-	Fairing ft sep
2018-004	2458130.67	2018 Jan 12 0359	PSLV-XL	-	PSLV-C40	1.214	ISRO	OS	-	G/G+C	Sat SSO L 1	Wire	-	-
2018-027	2458206.98	2018 Mar 29 1126:00	GSLV Mk II	b	GSLV-F08	2.230	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2018-035	2458220.44	2018 Apr 11 2234:00	PSLV-XL	-	PSLV-C41	1.425	ISRO	OS	-	G	Sat GTO SO	nasaspaceflight.com	-	-
2018-071	2458378.19	2018 Sep 16 1638	PSLV	CA	PSLV-C42	0.889	ISRO	OS	-	G/C	Sat SSO O	nasaspaceflight.com	-	-
2018-096	2458451.69	2018 Nov 29 0427:30	PSLV	CA	PSLV-C43	0.579	ISRO	OS	-	G/G+C	Sat SSO L	nasaspaceflight.com	-	-
2018-105	2458471.94	2018 Dec 19 1040	GSLV Mk II	c	GSLV-F11	2.250	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2019-006	2458508.25	2019 Jan 24 1807:00	PSLV-DL	-	PSLV-C44	0.741	ISRO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2019-018	2458574.66	2019 Apr 1 0357:00	PSLV-QL	-	PSLV-C45	0.611	ISRO	OS	-	G/G+C	Sat SSO L	Wire	-	-
2019-028	2458625.50	2019 May 22 0000	PSLV	CA	PSLV-C46	0.615	ISRO	OS	-	G	Sat LEO L	Wire	-	-
2019-081	2458814.67	2019 Nov 27 0358	PSLV-XL	-	PSLV-C47	1.698	ISRO	OS	-	G/G+C	Sat SSO O	Wire	-	-
2019-089	2458828.91	2019 Dec 11 0955	PSLV-QL	-	PSLV-C48	0.857	ISRO	OS	-	G/G+C	Sat LEO L 1	Wire	-	-
2020-081	2459160.90	2020 Nov 7 0941	PSLV-DL	-	PSLV-C49	0.693	ISRO	OS	-	G/G+C	Sat SSO L	Wire	-	-
2020-099	2459200.92	2020 Dec 17 1011	PSLV-XL	-	PSLV-C50	1.410	ISRO	OS	-	G	Sat GTO O	Wire	-	-
2021-015	2459273.70	2021 Feb 28 0454	PSLV-DL	-	PSLV-C51	0.657	ISRO/NSIL	OS	-	CO/OG+C	Sat SSO O	Wire	-	-
2021-F06	2459438.51	2021 Aug 12 0013	GSLV Mk II	c	GLSV-F10	2.268	ISRO	OF	S3I	G	Sat GTO O	Wire	-	LH2 leak
2022-013	2459624.52	2022 Feb 14 0029	PSLV-XL	-	PSLV-C52	1.736	ISRO	OS	-	G	Sat SSO L	Wire	-	-
2022-072	2459761.02	2022 Jun 30 1232	PSLV	CA	PLSV-C53	0.573	ISRO/NSIL	OS	-	CO/OG	Sat LEO O 1	Wire	-	-
2022-158	2459909.77	2022 Nov 26 0626	PSLV-XL	-	PSLV-C54	1.187	ISRO/NSIL	OS	-	CO/G	Sat SSO O	Wire	-	-
2023-057	2460056.87	2023 Apr 22 0850	PSLV	CA	PSLV-C55	0.807	ISRO/NSIL	OS	-	CO/OG	Sat LEO O	Wire	-	-
2023-076	2460093.72	2023 May 29 0512	GSLV Mk II	c	GSLV-F12	2.232	ISRO/NSIL	OS	-	CO/G	Sat GTO O	Wire	-	-
2023-109	2460155.54	2023 Jul 30 0101:00	PSLV	CA	PSLV-C56	0.423	ISRO/NSIL	OS	-	CO/OG	Sat LEO O	Wire	-	-
2023-132	2460189.76	2023 Sep 2 0620:00	PSLV-XL	-	PSLV-C57	1.480	ISRO	DS	-	G	Sat GTO O	Wire	-	-
2024-001	2460310.65	2024 Jan 1 0340:00	PSLV-DL	-	PSLV-C58	0.519	ISRO	OS	-	G	Sat LEO O	Wire	-	-
2024-033	2460358.00	2024 Feb 17 1205	GSLV Mk II	c	GSLV-F14	2.275	ISRO	OS	-	CO/G	Sat GTO O	Wire	-	-
2024-233	2460649.94	2024 Dec 5 1034	PSLV-XL	-	PSLV-C59	0.540	ISRO	OS	-	G	Sat STO O	Wire	-	-
2024-253	2460675.19	2024 Dec 30 1630:15	PSLV	CA	PSLV-C60	0.500	ISRO	OS	-	G	Sat LEO O	Wire	-	-
2025-020	2460704.54	2025 Jan 29 0053	GSLV Mk II	c	GSLV-F15	2.232	ISRO/NSIL	OS	-	CO/G	Sat GTO O	Wire	-	-
2025-F05	2460813.52	2025 May 18 0029	PSLV-XL	-	PSLV-C61	1.700	ISRO	OF	S3P	G	Sat LEO O	Wire	-	Stage 3 lost pressure

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-A06	2442448.27	1975 Feb 4 1835	Pedro Recruit	-	FLAME 1	FLAME	-	-	F-4J-077	NATC	RW06/24?	WI	LP1	17	-	-
1975-A09	2442470.50	1975 Feb 27	Pedro Recruit	-	FLAME 2	FLAME	-	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	17	-	-
1975-A17	2442500.38	1975 Mar 28 2104	Pedro Recruit	-	FLAME 3	FLAME	-	-	F-4J-077	NATC	RW06/24?	WI	LP1	18	-	-
1975-A23	2442520.50	1975 Apr 18	Pedro Recruit	-	FLAME 4	FLAME	-	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	17	-	-
1975-A32	2442566.50	1975 Jun 3	Pedro Recruit	-	FLAME 5	FLAME	Tungsten nosetip test	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	18	-	-
1975-A36	2442567.50	1975 Jun 4	Pedro Recruit	-	FLAME 6	FLAME	-	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	17	-	-
1976-A04	2442799.50	1976 Jan 22	Pedro Recruit	-	FLAME 7	FLAME	-	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	17	-	-
1976-A05	2442803.50	1976 Jan 26	Pedro Recruit	-	FLAME 8	FLAME	-	-	F-4J-077	NOTS	RW03/21?	TTR	LP1	17	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-A06	2442448.27	1975 Feb 4 1835	Pedro Recruit	-	FLAME 1	0.000	SAMSO	AS	-	-	Test	FDC/Ulrich	SRctCon3	-
1975-A09	2442470.50	1975 Feb 27	Pedro Recruit	-	FLAME 2	0.000	SAMSO	AS	-	-	Test	SAMSO	Powell	-
1975-A17	2442500.38	1975 Mar 28 2104	Pedro Recruit	-	FLAME 3	0.000	SAMSO	AS	-	-	Test	FirstDayCover	Powell	-
1975-A23	2442520.50	1975 Apr 18	Pedro Recruit	-	FLAME 4	0.000	SAMSO	AF	U	-	Test	SAMSO	Powell	-
1975-A32	2442566.50	1975 Jun 3	Pedro Recruit	-	FLAME 5	0.000	SAMSO	AS	-	-	Test	SAMSO	Powell	-
1975-A36	2442567.50	1975 Jun 4	Pedro Recruit	-	FLAME 6	0.000	SAMSO	AF	U	-	Test	SAMSO	Powell	-
1976-A04	2442799.50	1976 Jan 22	Pedro Recruit	-	FLAME 7	0.000	SAMSO	AS	-	-	Test	SAMSO	Powell	-
1976-A05	2442803.50	1976 Jan 26	Pedro Recruit	-	FLAME 8	0.000	SAMSO	AS	-	-	Test	SAMSO	Powell	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-028	2447987.30	1990 Apr 5 1910:17	Pegasus	-	001/F1	Pegsat/USA 55 GLOMR	Pegsat	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	680	-	-
1991-051	2448455.23	1991 Jul 17 1733:53	Pegasus/HAPS	-	002/F2	Microsat	Microsat 1	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	479	-	-
1993-009	2449028.10	1993 Feb 9 1430:34	Pegasus	-	003/F3	SCD-1	Orbcomm OXP	-	NB-52-008	KSC	RW15/33	ETR	MFWA	792	-	-
1993-026	2449103.08	1993 Apr 25 1356	Pegasus	-	004/F4	Alexis	Alexis	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	861	-	-
1994-029	2449492.21	1994 May 19 1703	Pegasus/HAPS	-	005/F5	STEP 2	STEP 2	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	824	-	-
1994-F03	2449531.39	1994 Jun 27 2115	Pegasus XL	-	F6	STEP 1	STEP 1	-	L-1011	V	RW30/12	WTR	PAWA	38	-	-
1994-046	2449568.11	1994 Aug 3 1438	Pegasus	-	F7	APEX	APEX	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	2551	-	-
1995-017	2449811.08	1995 Apr 3 1348	Pegasus H	-	F8	Orbcomm 1/2	Orbcomm FM1	-	L-1011	V	RW30/12	WTR	PAWA	756	-	-
1995-F03	2449891.33	1995 Jun 22 1958	Pegasus XL	-	F9	STEP 3	STEP 3	-	L-1011	V	RW30/12	WTR	PAWA	144	-	-
1996-014	2450151.56	1996 Mar 9 0133	Pegasus XL	-	F10	REX II	REX II	-	L-1011	V	RW30/12	WTR	PAWA	836	-	-
1996-031	2450220.61	1996 May 17 0244	Pegasus H	-	F11	MSTI 3	MSTI 3	-	L-1011	V	RW30/12	WTR	PAWA	477	-	-
1996-037	2450266.83	1996 Jul 2 0748	Pegasus XL	-	F12	TOMS-EP	TOMS-EP	-	L-1011	V	RW30/12	WTR	PAWA	943	-	-
1996-049	2450316.91	1996 Aug 21 0947:26	Pegasus XL	-	F13	FAST	FAST	-	L-1011	V	RW30/12	WTR	PAWA	4180	-	-
1996-061	2450392.21	1996 Nov 4 1708:56	Pegasus XL	-	F14	SAC-B/HETE	HETE	-	L-1011	WIMB	RW04/22?	WI	LP3	555	-	-
1997-018	2450560.00	1997 Apr 21 1159:06	Pegasus XL	-	F15	Minisat-01	Minisat-01	-	L-1011	GANC	RW03/21	GANC	LP1	584	-	-
1997-037	2450662.35	1997 Aug 1 2020	Pegasus XL	-	F16	OrbView-2	Seastar	-	L-1011	V	RW30/12	WTR	PAWA	786	-	-
1997-047	2450690.13	1997 Aug 29 1502:22	Pegasus XL	-	019/F17	FORTE	FORTE	-	L-1011	V	RW30/12	WTR	PAWA	835	-	-
1997-063	2450744.05	1997 Oct 22 1313	Pegasus XL	-	F18	STEP 4	STEP M4	-	L-1011	WIMB	RW04/22?	WI	LP3	501	-	-
1997-084	2450806.30	1997 Dec 23 1911:42	Pegasus XL/HAPS	-	F19	Orbcomm A1-A8	Orbcomm FM5	-	L-1011	WIMB	RW04/22?	WI	LP3	854	-	-
1998-012	2450870.80	1998 Feb 26 0707	Pegasus XL	-	F20	SNOE/T1	SNOE	-	L-1011	V	RW30	WTR	PAWA	587	-	-
1998-020	2450905.61	1998 Apr 2 0242:39	Pegasus XL	-	F21	TRACE	TRACE	-	L-1011	V	RW30/12	WTR	PAWA	644	-	-
1998-046	2451028.18	1998 Aug 2 1624	Pegasus XL/HAPS	-	F22	Orbcomm B1-B8	Orbcomm FM17	-	L-1011	WIMB	RW04/22?	WI	LP3	833	-	-
1998-053	2451079.71	1998 Sep 23 0506	Pegasus XL/HAPS	-	F23	Orbcomm C1-C8	Orbcomm FM21	-	L-1011	WIMB	RW04/22?	WI	LP3	831	-	-
1998-060	2451109.50	1998 Oct 23 0002	Pegasus H	-	F24/P-33	SCD-2	SCD-2	-	L-1011	CC	RW30/12	ETR	MFWA	774	-	-
1998-071	2451153.54	1998 Dec 6 0057:54	Pegasus XL	-	F25	SWAS	SWAS	-	L-1011	V	RW30/12	WTR	PAWA	652	-	-
1999-011	2451242.62	1999 Mar 5 0256	Pegasus XL	-	F26/M-22	WIRE	WIRE	-	L-1011	V	RW30/12	WTR	PAWA	593	-	-
1999-026	2451316.71	1999 May 18 0509:36	Pegasus XL/HAPS	-	F27	TERRIERS/MUBLCOM	TERRIERS	-	L-1011	V	RW30/12	WTR	PAWA	778	-	-
1999-065	2451517.29	1999 Dec 4 1853	Pegasus XL/HAPS	-	F28	Orbcomm D1-D7	Orbcomm FM30	-	L-1011	WIMB	RW22	WI	LP3	1375	-	-
2000-030	2451703.06	2000 Jun 7 1319:30	Pegasus XL	-	F29	TSX-5	TSX-5	-	L-1011	V	RW30/12	WTR	PAWA	1704	-	-
2000-061	2451826.73	2000 Oct 9 0538:18	Pegasus H	-	F30/P-35	HETE 2	HETE 2	-	L-1011	KMR	RW06/24	KMR	LP1	666	-	-
2001-A01	2452063.36	2001 Jun 2 2043:31	Hyper X	-	1	X-43A	-	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	7	-	-
2002-004	2452311.37	2002 Feb 5 2058:12	Pegasus XL	-	F31	HESSI	HESSI	-	L-1011	CC	RW30/12	ETR	MFWA	609	-	-
2003-004	2452665.34	2003 Jan 25 2013:35	Pegasus XL	-	F32	SORCE	SORCE	-	L-1011	CC	RW30/12	ETR	MFWA	652	-	-
2003-S06	2452677.38	2003 Feb 6 2100	GBI	-	1	Taurus Lite	-	-	-	V	576E	-	-	1810	-	-
2003-017	2452758.00	2003 Apr 28 1159:57	Pegasus XL	-	F33	GALEX	GALEX	-	L-1011	CC	RW30/12	ETR	MFWA	703	-	-
2003-030	2452817.29	2003 Jun 26 1853	Pegasus XL	-	F34	Orbview-3	Orbview-3	-	L-1011	V	RW30/12	WTR	PAWA	460	-	-
2003-036	2452864.59	2003 Aug 13 0209:33	Pegasus XL	-	F35	Scisat-1	SCISAT-1	-	L-1011	V	RW30/12	WTR	PAWA	654	-	-
2003-S39	2452868.25	2003 Aug 16 1800	GBI	-	2	BV-6	-	-	-	V	LF23	-	-	1874	-	-
2004-S06	2453031.60	2004 Jan 27 0223	GBI	-	3	IFT-13b	-	-	-	KMR	Meck 1	-	-	272?	-	-
2004-A03	2453092.42	2004 Mar 27 2159:57	Hyper X	-	2	X-43A	-	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	29	-	-
2004-A12	2453326.44	2004 Nov 16 2235	Hyper X	-	3	X-43A	-	-	NB-52-008	EAFB	RW04/22	WTR	PAWA	33	-	-
2005-014	2453476.23	2005 Apr 15 1726:50	Pegasus XL/HAPS	-	F36	DART	DART/HAPS	-	L-1011	V	RW30/12	WTR	PAWA	751	-	-
2005-S56	2453718.63	2005 Dec 14 0304	GBI	-	4	FT-1	-	-	-	KMR	Meck	-	-	1800?	-	-
2006-008	2453817.09	2006 Mar 22 1403:53	Pegasus XL	-	F37	ST5	Space Technology 5	-	L-1011	V	RW30/12	WTR	PAWA	4564	-	-
2006-S49	2453980.24	2006 Sep 1 1739	GBI	-	5	GMD FTG-02	-	-	-	V	LF23	-	-	1000?	-	-
2007-015	2454216.35	2007 Apr 25 2026:03	Pegasus XL	-	F38	AIM	AIM	-	L-1011	V	RW30/12	WTR	PAWA	602	-	-
2007-S43	2454372.34	2007 Sep 28 2016	GBI	-	6	GMD FTG-03a	-	-	-	V	LF23	-	-	1000?	-	-
2008-017	2454573.21	2008 Apr 16 1702:48	Pegasus XL	-	F39	C/NOFS	C/NOFS	-	L-1011	KMR	RW06/24	KMR	LP2	852	-	-
2008-A06	2454700.88	2008 Aug 22 0910	ALV	-	X-1	HyBolt/SOAREX-6	-	-	-	MARS	Pad 0B	-	-	10?	-	-
2008-051	2454759.24	2008 Oct 19 1747:23	Pegasus XL	-	F40	IBEX/Star 27	IBEX	-	L-1011	KMR	RW06/24	KMR	LP2	150000	-	-
2008-S71	2454806.35	2008 Dec 5 2021	GBI	-	-	GMD FTG-05	-	-	-	V	LF23	-	-	1000?	-	-
2010-S13	2455228.49	2010 Jan 31 2345:05	GBI	-	-	GMD FTG-06	-	-	-	V	LF23	-	-	1000?	-	-
2010-S37	2455354.43	2010 Jun 6 2225	GBI	2	-	BVT-1	-	-	-	V	LF24	-	-	300?	-	-
2010-S77	2455546.34	2010 Dec 15 2003	GBI	-	-	GMD FTG-06a	-	-	-	V	LF23	-	-	1000?	-	-
2012-031	2456092.17	2012 Jun 13 1600:42	Pegasus XL	-	F41	NuSTAR	NuSTAR	-	L-1011	KMR	RW06/24	KMR	LP3	636	-	-
2013-S01	2456319.42	2013 Jan 26 2200:00	GBI	-	-	GMD CTV-01	-	-	-	V	LF23	-	-	1000?	-	-
2013-033	2456471.60	2013 Jun 28 0227:46	Pegasus XL	-	F42	IRIS	IRIS	-	L-1011	V	RW30/12	WTR	PAWA	663	-	-
2013-S48	2456479.27	2013 Jul 5 1835	GBI	-	GBI	GMD FTG-07	CE-I EKV	-	-	V	LF23?	-	-	1000?	-	-
2014-S33	2456831.29	2014 Jun 22 1855	GBI	-	GBI	GMD FTG-06b	CE-II EKV	-	-	V	LF23	-	-	1000?	-	-
2015-A09	2457199.50	2015 Jun 26	IRBM-T1	-	Aegis FTO-02E1	Aegis Ashore Target	MBRV-7?	-	C-17	HICK	RW08R/26L	JI?	LP3	0?	-	-
2015-S87	2457366.50	2015 Dec 10	IRBM-T1	-	Aegis FTO-02E1a	FTO-02E1a Target	MBRV-7?	-	C-17	HICK	RW08R/26L	JI	LP3	300?	-	-
2016-S04	2457416.41	2016 Jan 28 2155?	IRBM-T1	-	GMD Target	GMD CTV-02+ Target	-	-	C-17	HICK	RW08R/26L	JI?	LP3	300?	-	-
2016-S05	2457416.41	2016 Jan 28 2157	GBI	-	GBI	GMD CTV-02+	CE-II EKV	-	-	V	LF23	-	-	1000?	-	-
2016-078	2457738.07	2016 Dec 15 1337	Pegasus XL	-	F43	CYGNSS	CYGNSS	-	L-1011	CC	RW13	ETR	MFWA	575	-	-
2017-S37	2457904.31	2017 May 30 1928:04	GBI	-	-	GMD FTG-15 OBV	FTG-15	FTG-15	-	V	LF23	-	-	1000?	-	-
2017-S56	2457945.50	2017 Jul 11	IRBM-T1	-	-	THAAD FTT-18 Target	MBRV-8?	-	C-17	HICK	RW08R/26L	JI?	LP3	300?	-	-
2018-S76	2458462.50	2018 Dec 10	IRBM-T1	-	-	GMD FTI-03 Target	MBRV?	-	C-17	HICK	RW08R/26L	JI?	LP3	300?	-	-
2019-S11	2458568.23	2019 Mar 25 1730	GBI	-	-	GMD FTG-11 OBV	CE-II EKV	FTG-11	-	V	LF23?	-	-	1000?	-	-
2019-S12	2458568.23	2019 Mar 25 1730	GBI	-	-	GMD FTG-11 OBV	CE-II EKV	FTG-11	-	V	LF05?	-	-	1000?	-	-
2019-068	2458767.58	2019 Oct 11 0200	Pegasus XL	-	F44 /N51	ICON	ICON	-	L-1011	CC	RW13	ETR	MFWA	611	-	-
2021-051	2459378.84	2021 Jun 13 0811	Pegasus XL	-	F45 /XS053	Odyssey	TacRL-2	-	L-1011	VSFB	RW30/12	WTR	PAWA	454	-	-
2021-S61	2459470.23	2021 Sep 12 1730	GBI	-	-	BVT-03	BVT-03	-	-	VSFB	-	-	-	300?	-	-
2023-S70	2460290.11	2023 Dec 11 1438?	IRBM-T1	?	-	GMD FTG-12 Target	MBRV?	-	C-17	HICK	RW08R/26L	KAU	LP5	300?	-	-
2023-S71	2460290.12	2023 Dec 11 1448	GBI	-	-	GMD FTG-12 OBV	CE-II EKV	FTG-12	-	V	-	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-028	2447987.30	1990 Apr 5 1910:17	Pegasus	-	001/F1	0.474	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1991-051	2448455.23	1991 Jul 17 1733:53	Pegasus/HAPS	-	002/F2	0.147	OSC	OF40	S1S*	CG/G	Sat LEO SO	AWST910722-24	-	Partial loop at S1S
1993-009	2449028.10	1993 Feb 9 1430:34	Pegasus	-	003/F3	0.130	OSC	OS	-	CG/OG	Sat LEO O	Wire	-	-
1993-026	2449103.08	1993 Apr 25 1356	Pegasus	-	004/F4	0.333	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1994-029	2449492.21	1994 May 19 1703	Pegasus/HAPS	-	005/F5	0.180	OSC	OS	-	CG/G	Sat LEO SO	Wire	-	-
1994-F03	2449531.39	1994 Jun 27 2115	Pegasus XL	-	F6	0.348	OSC	OF	S1G	CG/G	Sat LEO O	Wire	-	Attitude lost
1994-046	2449568.11	1994 Aug 3 1438	Pegasus	-	F7	0.383	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1995-017	2449811.08	1995 Apr 3 1348	Pegasus H	-	F8	0.126	OSC	OS	-	C	Sat LEO O	Wire	-	-
1995-F03	2449891.33	1995 Jun 22 1958	Pegasus XL	-	F9	0.268	OSC	OF	S1S	CG/G	Sat LEO O	Wire	-	Sep issue then attitude lost
1996-014	2450151.56	1996 Mar 9 0133	Pegasus XL	-	F10	0.110	OSC	OS	-	CG/G	Sat LEO O	SantaMariaT960309	-	-
1996-031	2450220.61	1996 May 17 0244	Pegasus H	-	F11	0.211	OSC	OS	-	CG/G	Sat SSO O	Wire	-	-
1996-037	2450266.83	1996 Jul 2 0748	Pegasus XL	-	F12	0.295	OSC	OS	-	CG/G	Sat SSO O	Wire	-	-
1996-049	2450316.91	1996 Aug 21 0947:26	Pegasus XL	-	F13	0.162	OSC	OS	-	CG/G	Sat MTO O	WWW-FAST	WWW-FAST	-
1996-061	2450392.21	1996 Nov 4 1708:56	Pegasus XL	-	F14	0.840	OSC	OF25	PA	CG/OG	Sat LEO O 1	Wire	-	S3 battery f.
1997-018	2450560.00	1997 Apr 21 1159:06	Pegasus XL	-	F15	0.210	OSC	OS	-	CG/OG	Sat LEO O	Wire	-	-
1997-037	2450662.35	1997 Aug 1 2020	Pegasus XL	-	F16	0.309	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1997-047	2450690.13	1997 Aug 29 1502:22	Pegasus XL	-	019/F17	0.212	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1997-063	2450744.05	1997 Oct 22 1313	Pegasus XL	-	F18	0.403	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1997-084	2450806.30	1997 Dec 23 1911:42	Pegasus XL/HAPS	-	F19	0.336	OSC	OS	-	C	Sat LEO OO	Rosenberg	Wire	-
1998-012	2450870.80	1998 Feb 26 0707	Pegasus XL	-	F20	0.333	OSC	OS	-	CG/G	Sat SSO O 1	Wire	-	-
1998-020	2450905.61	1998 Apr 2 0242:39	Pegasus XL	-	F21	0.250	OSC	OS	-	CG/G	Sat SSO O	Wire	-	-
1998-046	2451028.18	1998 Aug 2 1624	Pegasus XL/HAPS	-	F22	0.336	OSC	OS	-	C	Sat LEO OO	Wire	-	-
1998-053	2451079.71	1998 Sep 23 0506	Pegasus XL/HAPS	-	F23	0.336	OSC	OS	-	C	Sat LEO OO	Wire	-	-
1998-060	2451109.50	1998 Oct 23 0002	Pegasus H	-	F24/P-33	0.115	OSC	OS	-	CG/OG	Sat LEO O	Wire	-	-
1998-071	2451153.54	1998 Dec 6 0057:54	Pegasus XL	-	F25	0.282	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
1999-011	2451242.62	1999 Mar 5 0256	Pegasus XL	-	F26/M-22	0.187	OSC	OS	-	CG/G	Sat SSO O	Wire	-	-
1999-026	2451316.71	1999 May 18 0509:36	Pegasus XL/HAPS	-	F27	0.192	OSC	OS	-	CG/G	Sat SSO OO 1	Wire	-	-
1999-065	2451517.29	1999 Dec 4 1853	Pegasus XL/HAPS	-	F28	0.308	OSC	OS	-	C	Sat LEO OO	Wire	-	-
2000-030	2451703.06	2000 Jun 7 1319:30	Pegasus XL	-	F29	0.250	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2000-061	2451826.73	2000 Oct 9 0538:18	Pegasus H	-	F30/P-35	0.124	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2001-A01	2452063.36	2001 Jun 2 2043:31	Hyper X	-	1	0.000	OSC	AF	U	-	Test	Wire	-	-
2002-004	2452311.37	2002 Feb 5 2058:12	Pegasus XL	-	F31	0.304	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2003-004	2452665.34	2003 Jan 25 2013:35	Pegasus XL	-	F32	0.290	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2003-S06	2452677.38	2003 Feb 6 2100	GBI	-	1	0.000	OSC	MS	-	-	Test	www.orbital.com	-	-
2003-017	2452758.00	2003 Apr 28 1159:57	Pegasus XL	-	F33	0.280	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2003-030	2452817.29	2003 Jun 26 1853	Pegasus XL	-	F34	0.304	OSC	OS	-	C	Sat SSO O	Wire	-	-
2003-036	2452864.59	2003 Aug 13 0209:33	Pegasus XL	-	F35	0.150	OSC	OS	-	CG/OG	Sat LEO O	KSC-PR-69-03	-	-
2003-S39	2452868.25	2003 Aug 16 1800	GBI	-	2	0.000	OSC	MS	-	-	Test	Wire	-	-
2004-S06	2453031.60	2004 Jan 27 0223	GBI	-	3	0.000	OSC	MS	-	-	Test	www.orbital.com	SN040202-20	-
2004-A03	2453092.42	2004 Mar 27 2159:57	Hyper X	-	2	0.000	OSC	AS	-	-	Test	JScR43,105	spaceflightnow.com	-
2004-A12	2453326.44	2004 Nov 16 2235	Hyper X	-	3	0.000	OSC	AS	-	-	Test	spaceflightnow.com	-	-
2005-014	2453476.23	2005 Apr 15 1726:50	Pegasus XL/HAPS	-	F36	0.350	OSC	OS	-	CG/G	Sat SSO OA	NASA-TV	-	-
2005-S56	2453718.63	2005 Dec 14 0304	GBI	-	4	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2006-008	2453817.09	2006 Mar 22 1403:53	Pegasus XL	-	F37	0.115	OSC	OS	-	CG/G	Sat MTO O	AAS07-091	-	-
2006-S49	2453980.24	2006 Sep 1 1739	GBI	-	5	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2007-015	2454216.35	2007 Apr 25 2026:03	Pegasus XL	-	F38	0.192	OSC	OS	-	CG/G	Sat SSO O	spaceflightnow.com	-	-
2007-S43	2454372.34	2007 Sep 28 2016	GBI	-	6	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2008-017	2454573.21	2008 Apr 16 1702:48	Pegasus XL	-	F39	0.384	OSC	OS	-	CG/G	Sat LEO O	Elias	-	-
2008-A06	2454700.88	2008 Aug 22 0910	ALV	-	X-1	0.000	LARCN	SF	FS	LARCN/ARC/Pittman,White	Test/Reentry Test	Wire	-	Aero loads
2008-051	2454759.24	2008 Oct 19 1747:23	Pegasus XL	-	F40	0.117	OSC	DS	-	CG/G	Sat LEO O	Wire	-	-
2008-S71	2454806.35	2008 Dec 5 2021	GBI	-	-	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2010-S13	2455228.49	2010 Jan 31 2345:05	GBI	-	-	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2010-S37	2455354.43	2010 Jun 6 2225	GBI	2	-	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2010-S77	2455546.34	2010 Dec 15 2003	GBI	-	-	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2012-031	2456092.17	2012 Jun 13 1600:42	Pegasus XL	-	F41	0.360	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2013-S01	2456319.42	2013 Jan 26 2200:00	GBI	-	-	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2013-033	2456471.60	2013 Jun 28 0227:46	Pegasus XL	-	F42	0.183	OSC	OS	-	CG/G	Sat SSO O	spaceflightnow.com	-	-
2013-S48	2456479.27	2013 Jul 5 1835	GBI	-	GBI	0.000	MDA	MF	U	MDA/	Interceptor	vandenberg.af.mil	-	-
2014-S33	2456831.29	2014 Jun 22 1855	GBI	-	GBI	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-
2015-A09	2457199.50	2015 Jun 26	IRBM-T1	-	Aegis FTO-02E1	0.000	MDA	MF	U	-	Target	Wire	-	-
2015-S87	2457366.50	2015 Dec 10	IRBM-T1	-	Aegis FTO-02E1a	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2016-S04	2457416.41	2016 Jan 28 2155?	IRBM-T1	-	GMD Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2016-S05	2457416.41	2016 Jan 28 2157	GBI	-	GBI	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-
2016-078	2457738.07	2016 Dec 15 1337	Pegasus XL	-	F43	0.232	OSC	OS	-	CG/G	Sat LEO O	Wire	-	-
2017-S37	2457904.31	2017 May 30 1928:04	GBI	-	-	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-
2017-S56	2457945.50	2017 Jul 11	IRBM-T1	-	-	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2018-S76	2458462.50	2018 Dec 10	IRBM-T1	-	-	0.000	MDA	MS	-	MDA/	Target	www.mda.mil	-	-
2019-S11	2458568.23	2019 Mar 25 1730	GBI	-	-	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-
2019-S12	2458568.23	2019 Mar 25 1730	GBI	-	-	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-
2019-068	2458767.58	2019 Oct 11 0200	Pegasus XL	-	F44 /N51	0.288	NGISD	OS	-	CG/G	Sat LEO O	Wire	-	-
2021-051	2459378.84	2021 Jun 13 0811	Pegasus XL	-	F45 /XSO53	0.250	NGISD	OS	-	CG/G	Sat SSO O	Wire	-	-
2021-S61	2459470.23	2021 Sep 12 1730	GBI	-	-	0.000	MDA	MS	-	MDA/	Test	vandenberg.af.mil	-	-
2023-S70	2460290.11	2023 Dec 11 1438?	IRBM-T1	?	-	0.000	MDA	MS	-	MDA/	Test	sattrackcam.blogspot	-	-
2023-S71	2460290.12	2023 Dec 11 1448	GBI	-	-	0.000	MDA	MS	-	MDA/	Interceptor	vandenberg.af.mil	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S39	2436990.25	1960 Feb 25 1802	Pershing 1	-	105	P-01	R&D Group I 1	-	-	CC	LC30A	-	-	180?	37	-
1960-S77	2437045.27	1960 Apr 20 1830	Pershing 1	-	106	P-02	R&D Group I 2	-	-	CC	LC30A	-	-	180?	55	-
1960-S96	2437065.17	1960 May 10 1600	Pershing 1	-	107	P-03	R&D Group I 3	-	-	CC	LC30A	-	-	180?	55	-
1960-S121	2437095.18	1960 Jun 9 1619	Pershing 1	-	108	P-04	R&D Group I 4	-	-	CC	LC30A	-	-	180?	55	-
1960-S159	2437116.17	1960 Jun 30 1600	Pershing 1	-	109	P-05	R&D Group I 5	-	-	CC	LC30A	-	-	180?	55	-
1960-S197	2437142.17	1960 Jul 26 1600	Pershing 1	-	110	P-06	R&D Group I 6	-	-	CC	LC30A TEL	-	-	180?	55	-
1960-S293	2437206.32	1960 Sep 28 1938	Pershing 1	-	205	P-07	R&D Group II 1	-	-	CC	LC30A TEL	-	-	50?	-	-
1960-S366	2437255.27	1960 Nov 16 1825	Pershing 1	-	206	P-08	R&D Group II 2	-	-	CC	LC30A TEL	-	-	180?	268	-
1960-S402	2437281.28	1960 Dec 12 1842	Pershing 1	-	207	P-09	R&D Group II 3	-	-	CC	LC30A TEL	-	-	180?	268	-
1961-A17	2437305.51	1961 Jan 6 0010	Pershing 1	-	208	P-10	R&D Group II 4	-	-	CC	LC30	-	-	0?	-	-
1961-S27	2437325.52	1961 Jan 26 0030	Pershing 1	-	209	P-11	R&D Group II 5	-	-	CC	LC30A	-	-	180?	-	-
1961-S49	2437346.56	1961 Feb 16 0127	Pershing 1	-	210	P-12	R&D Group II 6	-	-	CC	LC30	-	-	180?	-	-
1961-S65	2437360.71	1961 Mar 2 0507	Pershing 1	-	211	P-13	R&D Group II 7	-	-	CC	LC30A	-	-	180?	-	-
1961-S84	2437374.55	1961 Mar 16 0119	Pershing 1	-	212	P-14	R&D Group II 8	-	-	CC	LC30A	-	-	180?	-	-
1961-S125	2437411.16	1961 Apr 21 1553	Pershing 1	-	308	P-15	R&D Group III-1	-	-	CC	LC30A	-	-	180?	407	-
1961-S155	2437438.58	1961 May 19 0200	Pershing 1	-	310	P-16	R&D Group III-2	-	-	CC	LC30	-	-	1?	0	-
1961-S173	2437459.72	1961 Jun 9 0511	Pershing 1	-	311	P-17	R&D Group III-3	-	-	CC	LC30	-	-	180?	-	-
1961-S199	2437481.58	1961 Jul 1 0200	Pershing 1	-	312	P-18	R&D Group III-4	-	-	CC	LC30	-	-	180?	-	-
1961-S212	2437500.58	1961 Jul 20 0200	Pershing 1	-	313	P-19	R&D Group III-5	-	-	CC	LC30A	-	-	180?	-	-
1961-A186	2437522.58	1961 Aug 11 0149	Pershing 1	-	315	P-20	R&D Group III-6	-	-	CC	LC30A	-	-	5?	-	-
1961-S249	2437534.58	1961 Aug 23 0155	Pershing 1	-	316	P-21	R&D Group III-7	-	-	CC	LC30A	-	-	180?	-	-
1961-S279	2437556.56	1961 Sep 14 0130	Pershing 1	-	318	P-22	R&D Group III-8	-	-	CC	LC30A TEL	-	-	180?	-	-
1961-S296	2437569.56	1961 Sep 27 0130	Pershing 1	-	319	P-23	R&D Group III-9	-	-	CC	LC30A	-	-	180?	-	-
1961-S328	2437583.57	1961 Oct 11 0134	Pershing 1	-	320	P-24	R&D Group III-10	-	-	CC	LC30A	-	-	180?	-	-
1961-S366	2437606.54	1961 Nov 3 0100	Pershing 1	-	322	P-25	R&D Group III-11	-	-	CC	LC30A	-	-	180?	-	-
1961-S374	2437619.61	1961 Nov 16 0235	Pershing 1	-	323	P-26	R&D Group III-12	-	-	CC	LC30A	-	-	180?	-	-
1961-S400	2437635.54	1961 Dec 2 0100	Pershing 1	-	324	P-27	R&D Group III-13	-	-	CC	LC30A	-	-	180?	-	-
1961-S441	2437662.52	1961 Dec 29 0030	Pershing 1	-	327	P-28	R&D Group III-14	-	-	CC	LC30A	-	-	180?	-	-
1962-S16	2437681.29	1962 Jan 16 1859:59	Pershing 1	-	334	P-29	R&D Group III-15	-	-	CC	LC30A	-	-	180?	713	-
1962-S23	2437689.64	1962 Jan 25 0326	Pershing 1	-	332	P-30	R&D Group III-16	-	-	CC	LC30A	-	-	180?	-	-
1962-S43	2437715.54	1962 Feb 20 0100:01	Pershing 1	-	335	P-31	R&D Group III-17	-	-	CC	LC30A	-	-	180?	556	-
1962-S68	2437739.48	1962 Mar 15 2331:50	Pershing 1	-	328	P-32	R&D Group III-18	-	-	CC	LC30A	-	-	180?	-	-
1962-S87	2437759.32	1962 Apr 4 1945:45	Pershing 1	-	326	P-33	R&D Group III-19	-	-	CC	LC30A	-	-	180?	-	-
1962-A59	2437779.21	1962 Apr 24 1700:00	Pershing 1	-	337	P-34	R&D Group III-20	-	-	CC	LC30A	-	-	10?	-	-
1962-S111	2437782.23	1962 Apr 27 1724:45	Pershing 1	-	329	P-35	R&D Group III-21	-	-	CC	LC30A	-	-	180?	-	-
1962-A76	2437794.06	1962 May 9 1329:59	Pershing 1	-	330	P-36	R&D Group III-22	-	-	CC	LC30A	-	-	10?	-	-
1962-S158	2437820.67	1962 Jun 5 0406:21	Pershing 1	-	339	P-37	R&D Group III-23	-	-	CC	LC30A	-	-	180?	-	-
1962-A96	2437830.58	1962 Jun 15 0200:01	Pershing 1	-	342	P-38	R&D Group III-24	-	-	CC	LC30A	-	-	40?	-	-
1962-S299	2437898.56	1962 Aug 22 0130:00	Pershing 1	-	338	P-39	R&D Group III-25	-	-	CC	LC30A	-	-	180?	-	-
1962-S344	2437934.59	1962 Sep 27 0214:56	Pershing 1	-	347	P-40	R&D Group III-26	-	-	CC	LC30	-	-	180?	-	-
1962-S409	2437960.66	1962 Oct 23 0344:24	Pershing 1	-	351	P-41	R&D Group III-27	-	-	CC	LC30A TEL	-	-	180?	-	-
1962-S478	2437984.54	1962 Nov 16 0052:22	Pershing 1	-	348	P-42	R&D Group III-28	-	-	CC	LC30A	-	-	180?	-	-
1962-S492	2437996.59	1962 Nov 28 0212:08	Pershing 1	-	354	P-43	R&D Group III-29	-	-	CC	LC30A	-	-	180?	-	-
1962-S548	2438009.62	1962 Dec 11 0255:29	Pershing 1	-	353	P-44	R&D Group III-30	-	-	CC	LC30A	-	-	180?	-	-
1963-S13	2438047.65	1963 Jan 18 0332:50	Pershing 1	-	358	P-45	R&D Group III-31	-	-	CC	LC30A	-	-	180?	370	-
1963-S26	2438060.52	1963 Jan 31 0030:05	Pershing 1	-	363	P-46	R&D Group III-32	-	-	CC	LC30A	-	-	180?	370	-
1963-S48	2438075.53	1963 Feb 15 0045:00	Pershing 1	-	403	P-47	R&D Group IV-1	Prototype Production	-	CC	LC30A	-	-	180?	574	-
1963-S66	2438086.56	1963 Feb 26 0131:43	Pershing 1	-	406	P-48	R&D Group IV-2	-	-	CC	LC30A	-	-	180?	268	-
1963-S79	2438093.54	1963 Mar 5 0100:01	Pershing 1	-	405	P-49	R&D Group IV-3	-	-	CC	LC30D	-	-	180?	556	-
1963-S91	2438102.57	1963 Mar 14 0146:04	Pershing 1	-	407	P-50	R&D Group IV-4	-	-	CC	LC30A	-	-	180?	204	-
1963-S107	2438110.55	1963 Mar 22 0115	Pershing 1	-	410	P-51	R&D Group IV-5	-	-	CC	LC30A	-	-	180?	556	-
1963-S131	2438123.64	1963 Apr 4 0325	Pershing 1	-	408	P-52	R&D Group IV-6	Last R&D	-	CC	LC30	-	-	180?	376	-
1963-S135	2438125.53	1963 Apr 6 0044:55	Pershing 1	-	511	P-53 IST/ Orlando	-	-	-	CC	LC30	-	-	180?	604	-
1963-S146	2438132.31	1963 Apr 12 1929:21	Pershing 1	-	515	P-54	-	-	-	CC	LC30	-	-	180?	407	-
1963-S151	2438137.19	1963 Apr 17 1639	Pershing 1	-	520	P-55	-	-	-	CC	LC30E	-	-	180?	-	-
1963-S171	2438144.36	1963 Apr 24 2040:49	Pershing 1	-	521	P-56	-	-	-	CC	LC30	-	-	180?	-	-
1963-S398	2438261.50	1963 Aug 20	Pershing 1	-	-	P-57? 63 Fall 01	-	-	-	FTB	-	-	-	180?	-	-
1963-S408	2438268.50	1963 Aug 27	Pershing 1	-	-	P-58? 63 Fall 02	-	-	-	FTB	-	-	-	180?	-	-
1963-S451	2438297.21	1963 Sep 24 1702	Pershing 1	-	-	P-59? 63 Fall 03	-	-	-	BLAN	-	-	-	180?	-	-
1963-S452	2438298.07	1963 Sep 25 1340	Pershing 1	-	-	P-60? 63 Fall 04	-	-	-	BLAN	-	-	-	180?	-	-
1963-S454	2438298.46	1963 Sep 25 2305	Pershing 1	-	-	P-61? 63 Fall 05	-	-	-	BLAN	-	-	-	180?	-	-
1963-S465	2438300.07	1963 Sep 27 1340	Pershing 1	-	-	P-62? 63 Fall 06	-	-	-	BLAN	-	-	-	180?	-	-
1963-S466	2438300.36	1963 Sep 27 2040?	Pershing 1	-	-	P-63? 63 Fall 07	-	-	-	BLAN	-	-	-	180?	-	-
1963-S486	2438317.26	1963 Oct 14 1818	Pershing 1	-	-	P-64? 63 Fall 08	-	-	-	FW	-	-	-	180?	-	-
1963-S495	2438319.14	1963 Oct 16 1515	Pershing 1	-	ATBM Target	P-65? 63 Fall 09	-	-	-	FW	-	-	-	180?	400	WS
1963-S500	2438321.08	1963 Oct 18 1400	Pershing 1	-	-	P-66? 63 Fall 10	-	-	-	FW	-	-	-	180?	-	-
1963-S503	2438323.50	1963 Oct 21	Pershing 1	-	-	P-67? 63 Fall 11	-	-	-	FW	-	-	-	180?	-	-
1963-A150	2438325.50	1963 Oct 23	Pershing 1	-	-	P-68? 63 Fall 12/W-5	-	-	-	FW	-	-	-	0	-	-
1963-S519	2438330.50	1963 Oct 28	Pershing 1	-	-	P-69? 63 Fall 13	-	-	-	FW	-	-	-	180?	-	-
1963-S552	2438348.10	1963 Nov 14 1430	Pershing 1	-	-	P-70? 63 Winter 1 C	-	-	-	FW	-	-	-	180?	-	-
1963-S560	2438354.23	1963 Nov 20 1731	Pershing 1	-	-	P-71? 63 Winter 2 A	-	-	-	FW	-	-	-	180?	-	-
1963-S632	2438360.50	1963 Nov 27	Pershing 1	-	-	P-72? 63 Winter 3 D	-	-	-	FW	-	-	-	180?	-	-
1963-S586	2438368.50	1963 Dec 5	Pershing 1	-	-	P-73? 63 Winter 4 B	-	-	-	FW	-	-	-	180?	-	-
1964-S115	2438450.12	1964 Feb 24 1457	Pershing 1	-	-	P-74?	-	-	-	FW	-	-	-	180?	-	-
1964-S116	2438450.51	1964 Feb 25 0017	Pershing 1	-	-	P-75?	-	-	-	FW	-	-	-	180?	-	-
1964-S65	2438451.25	1964 Feb 25 1800?	Pershing 1	-	-	P-76?	-	-	-	FW	-	-	-	10?	-	-
1964-S64	2438454.28	1964 Feb 28 1850?	Pershing 1	-	AO-11?	P-77?	-	-	-	FW	-	-	-	180?	-	-
1964-S219	2438507.46	1964 Apr 21 2300	Pershing 1	-	AO-12	P-78?	-	-	-	FTB	-	-	-	180?	-	-
1964-S224	2438509.52	1964 Apr 24 0030	Pershing 1	-	AO-13	P-79?	-	-	-	FTB	-	-	-	180?	-	-
1964-S363	2438593.50	1964 Jul 17	Pershing 1	-	AO-14	P-80?	-	-	-	BLAN	WM	-	-	180?	-	-
1964-S376	2438598.50	1964 Jul 22	Pershing 1	-	AO-15	P-81?	-	-	-	BLAN	WM	-	-	180?	-	-
1964-S632	2438718.12	1964 Nov 18 1455	Pershing 1	-	AO-16?	P-82?	-	-	-	FTB	-	-	-	180?	-	-
1964-S633	2438718.44	1964 Nov 18 2230	Pershing 1	-	AO-17?	P-83?	-	-	-	FTB	-	-	-	180?	-	-
1964-S635	2438719.12	1964 Nov 19 1500	Pershing 1	-	AO-18?	P-84?	-	-	-	FTB	-	-	-	180?	-	-
1964-S636	2438719.44	1964 Nov 19 2230	Pershing 1	-	AO-19?	P-85?	(Colo. overshoot)	-	-	FTB	-	-	-	180?	-	-
1965-S53	2438789.45	1965 Jan 28 2246	Pershing 1	-	AO-20?	P-86?	-	-	-	FW	-	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S64	2438795.15	1965 Feb 3 1530	Pershing 1	-	AO-22?	P-87?	-	-	-	FW	-	-	-	180?	-	-
1965-S63	2438795.15	1965 Feb 3 1535	Pershing 1	-	AO-21?	P-88?	-	-	-	FW	-	-	-	180?	-	-
1965-S91	2438803.54	1965 Feb 12 0059	Pershing 1	-	AO-23?	P-89?	-	-	-	FW	-	-	-	180?	-	-
1965-S312	2438907.42	1965 May 26 2200	Pershing 1	-	AO-24?	P-90?	-	-	-	GILB	-	-	-	180?	-	-
1965-S269	2438907.50	1965 May 27	Pershing 1	-	AO-25? (overshot)	P-91?	-	-	-	GILB	-	-	-	180?	-	-
1965-S334	2438913.50	1965 Jun 2	Pershing 1	-	AO-26	P-92?	-	-	-	GILB	-	-	-	180?	-	-
1965-S360	2438927.50	1965 Jun 16	Pershing 1	-	AO-27	P-93?	-	-	-	GILB	-	-	-	180?	-	-
1965-S524	2439039.50	1965 Oct 6	Pershing 1	-	AO-28	P-94?	-	-	-	GILB	-	-	-	180?	-	-
1965-A145	2439039.50	1965 Oct 6	Pershing 1	-	AO-29?	P-95?	-	-	-	GILB	-	-	-	10?	-	-
1965-S790	2439053.50	1965 Oct 20	Pershing 1	-	-	P-96?	-	-	-	GILB	-	-	-	180?	-	-
1965-A223	2439055.12	1965 Oct 21 1500?	Pershing 1	-	-	P-97?	-	-	-	GILB	-	-	-	40?	-	-
1965-S789	2439055.17	1965 Oct 21 1600?	Pershing 1	-	-	P-98?	-	-	-	GILB	-	-	-	100?	-	-
1966-S84	2439156.50	1966 Jan 31	Pershing 1	-	AO-30	P-99?	-	-	-	FTB	-	-	-	180?	-	-
1966-S111	2439171.20	1966 Feb 14 1652	Pershing 1	-	AO-31?	P-100?	-	-	-	FTB	-	-	-	180?	-	-
1966-S85	2439173.14	1966 Feb 16 1515	Pershing 1	-	AO-32	P-101?	-	-	-	FTB	-	-	-	180?	-	-
1966-S328	2439298.50	1966 Jun 22	Pershing 1	-	AO-33?	P-102? 66 Summer 01	-	-	-	GILB	-	-	-	180?	-	-
1966-S291	2439303.50	1966 Jun 27	Pershing 1	-	AO-34?	P-103? 66 Summer 02	-	-	-	GILB	-	-	-	180?	-	-
1966-S749	2439305.50	1966 Jun 29	Pershing 1	-	-	P-104? 66 Summer 03	-	-	-	GILB	-	-	-	180?	-	-
1966-S292	2439325.50	1966 Jul 19	Pershing 1	-	AO-35?	P-105? 66 Summer 04	-	-	-	BLAN	-	-	-	180?	-	-
1966-S392	2439332.15	1966 Jul 25 1530?	Pershing 1	-	AO-37	P-106? 66 Summer 05	-	-	-	BLAN	-	-	-	180?	-	-
1966-S393	2439332.17	1966 Jul 25 1600?	Pershing 1	-	AO-38	P-107? 66 Summer 06	-	-	-	BLAN	-	-	-	180?	-	-
1966-S394	2439332.21	1966 Jul 25 1700?	Pershing 1	-	AO-39?	P-108? 66 Summer 07	-	-	-	BLAN	-	-	-	180?	-	-
1966-S395	2439333.17	1966 Jul 26 1600?	Pershing 1	-	AO-40?	P-109? 66 Summer 08	-	-	-	BLAN	-	-	-	180?	-	-
1966-S396	2439333.21	1966 Jul 26 1700?	Pershing 1	-	-	P-110? 66 Summer 09	-	-	-	BLAN	-	-	-	180?	-	-
1966-S397	2439333.25	1966 Jul 26 1800?	Pershing 1	-	-	P-111? 66 Summer 10	-	-	-	BLAN	-	-	-	180?	-	-
1966-S553	2439419.50	1966 Oct 21	Pershing 1	-	AO-41	P-112? 66 Fall 01	-	-	-	GILB	-	-	-	180?	-	-
1966-S554	2439419.50	1966 Oct 21	Pershing 1	-	AO-42?	P-113? 66 Fall 02	-	-	-	GILB	-	-	-	180?	-	-
1966-S555	2439419.50	1966 Oct 21	Pershing 1	-	AO-43?	P-114? 66 Fall 03	-	-	-	GILB	-	-	-	180?	-	-
1966-S513	2439424.50	1966 Oct 26	Pershing 1	-	AO-23	P-115? 66 Fall 04	-	-	-	GILB	-	-	-	180?	-	-
1966-S573	2439433.50	1966 Nov 4	Pershing 1	-	AO-44	P-116? 66 Fall 05	-	-	-	GILB	-	-	-	2?	-	-
1967-S131	2439556.17	1967 Mar 6 1600?	Pershing 1	-	AO-45?	P-117? 67 Spring 01	-	-	-	BLAN	-	-	-	180?	-	-
1967-S642	2439556.17	1967 Mar 6 1600?	Pershing 1	-	AO-46?	P-118? 67 Spring 02	-	-	-	BLAN	-	-	-	180?	-	-
1967-S151	2439562.50	1967 Mar 13	Pershing 1	-	AO-47?	P-119? 67 Spring 03	-	-	-	BLAN	-	-	-	180?	-	-
1967-S152	2439562.50	1967 Mar 13	Pershing 1	-	AO-48?	P-120? 67 Spring 04	-	-	-	BLAN	-	-	-	180?	-	-
1967-S411	2439564.50	1967 Mar 15	Pershing 1	-	AO-49	P-121? 67 Spring 05	-	-	-	BLAN	-	-	-	180?	-	-
1967-S172	2439578.52	1967 Mar 29 0030	Pershing 1	-	-	P-122? 67 Spring 06	-	-	-	BLAN	-	-	-	180?	-	-
1967-S173	2439578.52	1967 Mar 29 0030	Pershing 1	-	-	P-123? 67 Spring 07	-	-	-	BLAN	-	-	-	180?	-	-
1967-S174	2439578.54	1967 Mar 29 0100	Pershing 1	-	-	P-124? 67 Spring 08	-	-	-	BLAN	-	-	-	180?	-	-
1967-S287	2439643.50	1967 Jun 2	Pershing 1	-	-	P-125? 67 Summer 01	-	-	-	BLAN	-	-	-	180?	-	-
1967-S288	2439643.50	1967 Jun 2	Pershing 1	-	-	P-126? 67 Summer 02	-	-	-	BLAN	-	-	-	180?	-	-
1967-S297	2439650.50	1967 Jun 9	Pershing 1	-	-	P-127? 67 Summer 03	-	-	-	BLAN	-	-	-	180?	-	-
1967-S313	2439663.50	1967 Jun 22	Pershing 1	-	-	P-128? 67 Summer 04	-	-	-	BLAN	-	-	-	180?	-	-
1967-S314	2439664.50	1967 Jun 23	Pershing 1	-	-	P-129? 67 Summer 05	-	-	-	BLAN	-	-	-	180?	-	-
1967-S401	2439732.34	1967 Aug 29 2010	Pershing 1	-	-	P-130? 67 Fall 01	-	-	-	BLAN	-	-	-	180?	-	-
1967-S402	2439732.34	1967 Aug 29 2015?	Pershing 1	-	-	P-131? 67 Fall 02	-	-	-	BLAN	-	-	-	180?	-	-
1967-S403	2439732.36	1967 Aug 29 2045?	Pershing 1	-	-	P-132? 67 Fall 03	-	-	-	BLAN	-	-	-	180?	-	-
1967-S404	2439732.36	1967 Aug 29 2045?	Pershing 1	-	-	P-133? 67 Fall 04	-	-	-	BLAN	-	-	-	180?	-	-
1967-S410	2439745.79	1967 Sep 12 0700	Pershing 1	-	AO-53	P-134? 67 Fall 05	-	-	-	BLAN	-	-	-	180?	-	-
1967-S433	2439745.83	1967 Sep 12 0748	Pershing 1	-	AO-54 Hit Mexico	P-135? 67 Fall 06	-	-	-	BLAN	-	-	-	180?	-	-
1967-S652	2439760.50	1967 Sep 27	Pershing 1	-	-	P-136? 67 Fall 07	-	-	-	BLAN	-	-	-	180?	-	-
1967-S653	2439760.50	1967 Sep 27	Pershing 1	-	-	P-137? 67 Fall 08	-	-	-	BLAN	-	-	-	180?	-	-
1967-S510	2439810.12	1967 Nov 15 1500	Pershing 1	-	AO-55?	P-138? 67 Fall 09	-	-	-	BLAN	-	-	-	180?	-	-
1967-S511	2439810.15	1967 Nov 15 1530	Pershing 1	-	AO-56?	P-139? 67 Fall 10	-	-	-	BLAN	-	-	-	180?	-	-
1967-S512	2439810.24	1967 Nov 15 1745	Pershing 1	-	AO-57?	P-140? 67 Fall 11	-	-	-	BLAN	-	-	-	180?	-	-
1968-S166	2439920.50	1968 Mar 5	Pershing 1A	-	-	P-141? MartinMar.	-	-	-	FTB	-	-	-	180?	-	-
1968-S158	2439923.50	1968 Mar 8	Pershing 1A	-	-	P-142? MartinMar.	-	-	-	FTB	-	-	-	180?	-	-
1968-S167	2439915.50	1968 Mar	Pershing 1A	-	AO-58?	P-143? MartinMar.	-	-	-	FTB?	-	-	-	180?	-	-
1968-S244	2439962.50	1968 Apr 16	Pershing 1	-	AO-60	P-144? 68 Spring 01	-	-	-	FTB?	-	-	-	180?	-	-
1968-S245	2439962.50	1968 Apr 16	Pershing 1	-	AO-61	P-145? 68 Spring 02	-	-	-	FTB?	-	-	-	180?	-	-
1968-S700	2439976.50	1968 Apr 30	Pershing 1	-	AO-62?	P-146? 68 Spring 03	-	-	-	FTB	-	-	-	180?	-	-
1968-S292	2439976.50	1968 Apr 30	Pershing 1	-	AO-63?	P-147? 68 Spring 04	-	-	-	FTB	-	-	-	180?	-	-
1968-S380	2440028.50	1968 Jun 21	Pershing 1	-	AO-64	P-148? 68 Summer 01	-	-	-	GILB	-	-	-	180?	-	-
1968-S381	2440028.50	1968 Jun 21	Pershing 1	-	AO-65	P-149? 68 Summer 02	-	-	-	GILB	-	-	-	180?	-	-
1968-S388	2440056.50	1968 Jul 19	Pershing 1	-	AO-66?	P-150? 68 Summer 03	-	-	-	GILB	-	-	-	180?	-	-
1968-S389	2440056.50	1968 Jul 19	Pershing 1	-	AO-67?	P-151? 68 Summer 04	-	-	-	GILB	-	-	-	180?	-	-
1968-S430	2440071.50	1968 Aug 3	Pershing 1	-	AO-68	P-152? 68 Summer 05	-	-	-	GILB	-	-	-	180?	-	-
1968-S661	2440071.50	1968 Aug 3	Pershing 1	-	AO-69	P-153? 68 Summer 06	-	-	-	GILB	-	-	-	180?	-	-
1968-S431	2440073.50	1968 Aug 5	Pershing 1A	-	P1A	P-154? 68 Summer 07	-	-	-	GILB	-	-	-	180?	-	-
1968-S432	2440075.50	1968 Aug 7	Pershing 1A	-	P1A	P-155? 68 Summer 08	-	-	-	GILB	-	-	-	180?	-	-
1968-S433	2440075.50	1968 Aug 7	Pershing 1A	-	P1A	P-156? 68 Summer 09	-	-	-	GILB	-	-	-	180?	-	-
1968-S568	2440166.17	1968 Nov 5 1611	Pershing 1	-	AO-70?	P-157? 68 Winter 01	-	-	-	GILB	-	-	-	180?	-	-
1968-S569	2440166.25	1968 Nov 5 1800?	Pershing 1	-	AO-71?	P-158? 68 Winter 02	-	-	-	GILB	-	-	-	180?	-	-
1968-S581	2440173.50	1968 Nov 13	Pershing 1	-	AO-72	P-159? 68 Winter 03	-	-	-	GILB	-	-	-	180?	-	-
1969-S243	2440314.19	1969 Apr 2 1630	Pershing 1	-	AO-73	P-160? 69 Spring 01	-	-	-	BLAN	-	-	-	180?	-	-
1969-S244	2440314.23	1969 Apr 2 1730	Pershing 1	-	AO-74	P-161? 69 Spring 02	-	-	-	BLAN	-	-	-	180?	-	-
1969-S268	2440327.22	1969 Apr 15 1710	Pershing 1	-	AO-75?	P-162? 69 Spring 03	-	-	-	BLAN	-	-	-	180?	-	-
1969-S269	2440328.36	1969 Apr 16 2045	Pershing 1	-	AO-76?	P-163? 69 Spring 04	-	-	-	BLAN	-	-	-	180?	-	-
1969-S305	2440341.25	1969 Apr 29 1755	Pershing 1	-	AO-77	P-164? 69 Spring 05	-	-	-	BLAN	-	-	-	180?	-	-
1969-A70	2440341.29	1969 Apr 29 1900	Pershing 1	-	AO-78	P-165? 69 Spring 06	-	-	-	BLAN	-	-	-	10?	-	-
1969-S310	2440355.15	1969 May 13 1530	Pershing 1	-	AO-79?	P-166? 69 Spring 07	-	-	-	BLAN	-	-	-	180?	-	-
1969-S311	2440355.19	1969 May 13 1640	Pershing 1	-	AO-80?	P-167? 69 Spring 08	-	-	-	BLAN	-	-	-	180?	-	-
1969-S482	2440470.33	1969 Sep 5 1955	Pershing 1	-	AO-81	P-168? 69 Fall 01	-	-	-	BLAN	-	-	-	180?	-	-
1969-S483	2440470.35	1969 Sep 5 2030	Pershing 1	-	AO-82	P-169? 69 Fall 02	-	-	-	BLAN	-	-	-	180?	-	-
1969-S475	2440480.50	1969 Sep 16	Pershing 1A	-	AO-83?	P-170? 69 Fall 03	-	-	-	BLAN	-	-	-	180?	-	-
1969-S476	2440480.50	1969 Sep 16	Pershing 1A	-	AO-84?	P-171? 69 Fall 04	-	-	-	BLAN	-	-	-	180?	-	-
1969-S477	2440495.35	1969 Sep 30 2017	Pershing 1A	-	AO-85?	P-172? 69 Fall 05	-	-	-	BLAN	-	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S478	2440495.50	1969 Sep 30 2356	Pershing 1A	-	AO-86?	P-173? 69 Fall 06	-	-	-	BLAN	-	-	-	180?	-	-
1970-S301	2440693.33	1970 Apr 16 2000	Pershing 1	-	AO-87	P-174? 70 Spring 01	-	-	-	BLAN	-	-	-	180?	-	-
1970-S302	2440693.36	1970 Apr 16 2037	Pershing 1	-	AO-88	P-175? 70 Spring 02	-	-	-	BLAN	-	-	-	180?	-	-
1970-A58	2440704.50	1970 Apr 28	Pershing 1A	-	AO-89?	P-176? 70 Spring 03	-	-	-	BLAN	-	-	-	1?	-	-
1970-S378	2440740.55	1970 Jun 3 0110	Pershing 1	-	AO-90	P-177? 70 Spring 04	-	-	-	BLAN	-	-	-	180?	-	-
1970-S379	2440742.33	1970 Jun 4 2000	Pershing 1	-	AO-91	P-178? 70 Spring 05	-	-	-	BLAN	-	-	-	180?	-	-
1970-S380	2440742.50	1970 Jun 5 0000	Pershing 1	?	-	P-179? 70 Spring 06	-	-	-	BLAN	-	-	-	180?	-	-
1970-S381	2440762.50	1970 Jun 25	Pershing 1	?	-	P-180? 70 Spring 07	-	-	-	BLAN	-	-	-	180?	-	-
1970-S276	2440762.50	1970 Jun 25	Pershing 1	?	-	P-181? 70 Spring 08	-	-	-	BLAN	-	-	-	180?	-	-
1970-S432	2440782.15	1970 Jul 14 1535	Pershing 1A	-	DASO	P-182? 70 Spring 09	-	-	-	BLAN	-	-	-	180?	-	-
1970-S433	2440782.17	1970 Jul 14 1600	Pershing 1A	-	DASO	P-183? 70 Spring 10	-	-	-	BLAN	-	-	-	180?	-	-
1970-S467	2440803.38	1970 Aug 4 2101	Pershing 1A	-	-	P-184? 70 Spring 11	-	-	-	BLAN	-	-	-	180?	-	-
1970-S468	2440803.39	1970 Aug 4 2125	Pershing 1A	-	-	P-185? 70 Spring 12	-	-	-	BLAN	-	-	-	180?	-	-
1970-S519	2440844.50	1970 Sep 15	Pershing 1	-	-	P-186? 70 Fall 01	-	-	-	BLAN	-	-	-	180?	-	-
1970-S524	2440847.33	1970 Sep 17 2000	Pershing 1	-	-	P-187? 70 Fall 02	-	-	-	BLAN	-	-	-	180?	-	-
1970-S540	2440859.30	1970 Sep 29 1915	Pershing 1	-	-	P-188? 70 Fall 03	-	-	-	BLAN	-	-	-	180?	-	-
1970-S541	2440859.32	1970 Sep 29 1936	Pershing 1	-	-	P-189? 70 Fall 04	-	-	-	BLAN	-	-	-	180?	-	-
1970-S542	2440859.38	1970 Sep 29 2110	Pershing 1	-	-	P-190? 70 Fall 05	-	-	-	BLAN	-	-	-	180?	-	-
1970-S543	2440859.40	1970 Sep 29 2134	Pershing 1	-	OffR 117	P-191? 70 Fall 06	-	-	-	BLAN	-	-	-	180?	-	-
1970-S566	2440873.63	1970 Oct 14 0305	Pershing 1	-	AO-95	P-192? 70 Fall 07	-	-	-	BLAN	-	-	-	180?	-	-
1970-A111	2440873.68	1970 Oct 14 0415	Pershing 1	-	AO-96	P-193? 70 Fall 08	-	-	-	BLAN	-	-	-	1?	-	-
1970-S594	2440895.65	1970 Nov 5 0335	Pershing 1A	-	-	P-194? 70 Fall 09	-	-	-	BLAN	-	-	-	180?	-	-
1970-S595	2440895.67	1970 Nov 5 0405	Pershing 1A	-	-	P-195? 70 Fall 10	-	-	-	BLAN	-	-	-	180?	-	-
1970-A117	2440895.73	1970 Nov 5 0525	Pershing 1A	-	-	P-196? 70 Fall 11	-	-	-	BLAN	-	-	-	1?	-	-
1970-S596	2440895.82	1970 Nov 5 0735	Pershing 1A	-	-	P-197? 70 Fall 12	-	-	-	BLAN	-	-	-	180?	-	-
1970-S620	2440914.35	1970 Nov 23 2030	Pershing 1A	-	-	P-198? 70 Fall 13	-	-	-	BLAN	-	-	-	180?	-	-
1970-S621	2440914.47	1970 Nov 23 2310	Pershing 1A	-	-	P-199? 70 Fall 14	-	-	-	BLAN	-	-	-	180?	-	-
1970-S622	2440914.49	1970 Nov 23 2345	Pershing 1A	-	-	P-200? 70 Fall 15	-	-	-	BLAN	-	-	-	180?	-	-
1970-S623	2440914.51	1970 Nov 24 0020	Pershing 1A	-	-	P-201? 70 Fall 16	-	-	-	BLAN	-	-	-	180?	-	-
1971-S257	2441069.27	1971 Apr 27 1830	Pershing 1A	-	-	P-202? 71 Spring 01	-	-	-	GRLC	-	-	-	180?	-	-
1971-S258	2441069.29	1971 Apr 27 1900?	Pershing 1A	-	-	P-203? 71 Spring 02	-	-	-	GRLC	-	-	-	180?	-	-
1971-S259	2441069.33	1971 Apr 27 2000?	Pershing 1A	-	-	P-204? 71 Spring 03	-	-	-	GRLC	-	-	-	180?	-	-
1971-S260	2441069.35	1971 Apr 27 2030	Pershing 1A	-	-	P-205? 71 Spring 04	-	-	-	GRLC	-	-	-	180?	-	-
1971-S274	2441083.50	1971 May 12	Pershing 1A	-	-	P-206? 71 Spring 05	-	-	-	GRLC	-	-	-	180?	-	-
1971-S275	2441083.50	1971 May 12	Pershing 1A	-	-	P-207? 71 Spring 06	-	-	-	GRLC	-	-	-	180?	-	-
1971-S276	2441083.50	1971 May 12	Pershing 1A	-	-	P-208? 71 Spring 07	-	-	-	GRLC	-	-	-	180?	-	-
1971-S277	2441083.50	1971 May 12	Pershing 1A	-	-	P-209? 71 Spring 08	-	-	-	GRLC	-	-	-	180?	-	-
1971-S313	2441099.18	1971 May 27 1620	Pershing 1A	-	-	P-210? 71 Spring 09	-	-	-	GRLC	-	-	-	180?	-	-
1971-S315	2441099.20	1971 May 27 1650	Pershing 1A	-	-	P-211? 71 Spring 10	-	-	-	GRLC	-	-	-	180?	-	-
1971-S316	2441099.29	1971 May 27 1855	Pershing 1A	-	-	P-212? 71 Spring 11	-	-	-	GRLC	-	-	-	180?	-	-
1971-S325	2441111.35	1971 Jun 8 2031	Pershing 1A	-	-	P-213? 71 Spring 12	-	-	-	GRLC	-	-	-	180?	-	-
1971-A80	2441218.33	1971 Sep 23 1950	Pershing 1A	-	Imp.	P-214? 71 Fall 01	-	-	-	FTB	MCG	-	-	1?	-	-
1971-S416	2441225.33	1971 Sep 30 1950	Pershing 1A	-	Imp.	P-215? 71 Fall 02	-	-	-	FTB	MCG	-	-	10?	-	-
1971-S483	2441246.50	1971 Oct 22	Pershing 1A	-	-	P-216? 71 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1971-S484	2441251.50	1971 Oct 27	Pershing 1A	-	-	P-217? 71 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1971-S545	2441264.50	1971 Nov 9	Pershing 1A	-	-	P-218? 71 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1971-S546	2441264.50	1971 Nov 9	Pershing 1A	-	-	P-219? 71 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-
1972-S172	2441426.17	1972 Apr 18 1600	Pershing 1A	-	Imp. / MICOM	P-220? 72 Spring 01	-	-	-	GRLC	-	-	-	180?	-	-
1972-S173	2441426.28	1972 Apr 18 1840	Pershing 1A	-	Imp. / MICOM	P-221? 72 Spring 02	-	-	-	GRLC	-	-	-	180?	-	-
1972-S182	2441455.14	1972 May 17 1520	Pershing 1A	-	Imp. / MICOM	P-222? 72 Spring 03	-	-	-	GRLC	-	-	-	180?	-	-
1972-S183	2441455.17	1972 May 17 1600?	Pershing 1A	-	Imp. / MICOM	P-223? 72 Spring 04	-	-	-	GRLC	-	-	-	180?	-	-
1972-S184	2441455.19	1972 May 17 1630?	Pershing 1A	-	-	P-224? 72 Spring 05	-	-	-	GRLC	-	-	-	180?	-	-
1972-S185	2441455.21	1972 May 17 1705	Pershing 1A	-	-	P-225? 72 Spring 06	-	-	-	GRLC	-	-	-	180?	-	-
1972-S214	2441470.76	1972 Jun 2 0610	Pershing 1A	-	-	P-226? 72 Spring 07	-	-	-	GRLC	-	-	-	180?	-	-
1972-S215	2441470.78	1972 Jun 2 0645	Pershing 1A	-	-	P-227? 72 Spring 08	-	-	-	GRLC	-	-	-	180?	-	-
1972-S216	2441471.50	1972 Jun 3	Pershing 1A	-	-	P-228? 72 Spring 09	-	-	-	GRLC	-	-	-	180?	-	-
1972-S217	2441471.66	1972 Jun 3 0355	Pershing 1A	-	-	P-229? 72 Spring 10	-	-	-	GRLC	-	-	-	10?	-	-
1972-S218	2441476.22	1972 Jun 7 1715	Pershing 1A	-	-	P-230? 72 Spring 11	-	-	-	GRLC	-	-	-	180?	-	-
1972-S219	2441476.50	1972 Jun 8	Pershing 1A	-	-	P-231? 72 Spring 12	-	-	-	GRLC	-	-	-	180?	-	-
1972-S220	2441482.08	1972 Jun 13 1400	Pershing 1A	-	AO-108	P-232? 72 Spring 13	-	-	-	GRLC	-	-	-	180?	-	-
1972-S221	2441482.15	1972 Jun 13 1530	Pershing 1A	-	AO-109	P-233? 72 Spring 14	-	-	-	GRLC	-	-	-	180?	-	-
1972-S247	2441491.10	1972 Jun 22 1420	Pershing 1A	-	AO-110	P-234? 72 Spring 15	-	-	-	GRLC	-	-	-	180?	-	-
1972-S248	2441491.12	1972 Jun 22 1500	Pershing 1A	-	AO-111	P-235? 72 Spring 16	-	-	-	GRLC	-	-	-	180?	-	-
1972-S222	2441497.50	1972 Jun 29	Pershing 1A	-	-	P-236? 72 Spring 17	-	-	-	GRLC	-	-	-	180?	-	-
1972-S223	2441497.50	1972 Jun 29	Pershing 1A	-	-	P-237? 72 Spring 18	-	-	-	GRLC	-	-	-	180?	-	-
1972-S224	2441497.50	1972 Jun 29	Pershing 1A	-	-	P-238? 72 Spring 19	-	-	-	GRLC	-	-	-	180?	-	-
1972-S447	2441497.50	1972 Jun 29	Pershing 1A	-	-	P-239? 72 Spring 20	-	-	-	GRLC	-	-	-	180?	-	-
1972-S308	2441578.50	1972 Sep 18	Pershing 1A	-	AO-112	P-240? 72 Fall 01	-	-	-	GRLC	-	-	-	180?	-	-
1972-S309	2441578.50	1972 Sep 18	Pershing 1A	-	AO-113	P-241? 72 Fall 02	-	-	-	GRLC	-	-	-	180?	-	-
1972-S317	2441586.10	1972 Sep 25 1430	Pershing 1A	-	AO-114	P-242? 72 Fall 03	-	-	-	GRLC	-	-	-	180?	-	-
1972-S318	2441586.15	1972 Sep 25 1530	Pershing 1A	-	AO-115	P-243? 72 Fall 04	-	-	-	GRLC	-	-	-	180?	-	-
1972-S337	2441601.50	1972 Oct 11	Pershing 1A	-	AO-116?	P-244? 72 Fall 05	-	-	-	GRLC	-	-	-	180?	-	-
1972-S338	2441601.50	1972 Oct 11	Pershing 1A	-	AO-117?	P-245? 72 Fall 06	-	-	-	GRLC	-	-	-	180?	-	-
1972-S225	2441609.50	1972 Oct 19	Pershing 1A	-	AO-118?	P-246? 72 Fall 07	-	-	-	GRLC	-	-	-	180?	-	-
1972-S326	2441609.50	1972 Oct 19	Pershing 1A	-	AO-119?	P-247? 72 Fall 08	-	-	-	GRLC	-	-	-	180?	-	-
1973-S75	2441735.13	1973 Feb 21 1505	Pershing 1A	-	101 (FOT)	P-248? 73 Cape 01	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S76	2441735.15	1973 Feb 21 1537	Pershing 1A	-	102	P-249? 73 Cape 02	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S77	2441735.19	1973 Feb 21 1630	Pershing 1A	-	103	P-250? 73 Cape 03	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S78	2441735.21	1973 Feb 21 1706	Pershing 1A	-	104	P-251? 73 Cape 04	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S96	2441748.48	1973 Mar 6 2328	Pershing 1A	-	105	P-252? 73 Cape 05	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S97	2441748.49	1973 Mar 6 2348	Pershing 1A	-	106	P-253? 73 Cape 06	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-A13	2441748.52	1973 Mar 7 0022	Pershing 1A	-	107	P-254? 73 Cape 07	-	-	-	CC	LC31A TEL	-	-	0?	-	-
1973-S98	2441748.53	1973 Mar 7 0050	Pershing 1A	-	108	P-255? 73 Cape 08	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S107	2441761.17	1973 Mar 19 1602	Pershing 1A	-	111	P-256? 73 Cape 09	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S108	2441761.18	1973 Mar 19 1616	Pershing 1A	-	112	P-257? 73 Cape 10	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S109	2441761.22	1973 Mar 19 1720	Pershing 1A	-	109	P-258? 73 Cape 11	-	-	-	CC	LC31A TEL	-	-	180?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-S110	2441761.24	1973 Mar 19 1752	Pershing 1A	-	110	P-259? 73 Cape 12	-	-	-	CC	LC31A TEL	-	-	180?	-	-
1973-S189	2441853.09	1973 Jun 19 1405	Pershing 1A	-	AO-120?	P-260? 73 Spring 01	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S190	2441853.29	1973 Jun 19 1900	Pershing 1A	-	AO-121?	P-261? 73 Spring 02	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S209	2441860.50	1973 Jun 27	Pershing 1A	-	AO-122?	P-262? 73 Spring 03	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S210	2441860.50	1973 Jun 27	Pershing 1A	-	AO-123?	P-263? 73 Spring 04	-	-	-	FTB	MCG	-	-	50?	-	-
1973-S235	2441881.12	1973 Jul 17 1453	Pershing 1A	-	AO-124	P-264? 73 Spring 05	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S236	2441881.18	1973 Jul 17 1619	Pershing 1A	-	AO-125	P-265? 73 Spring 06	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S215	2441889.50	1973 Jul 26	Pershing 1A	-	AO-126	P-266? 73 Spring 07	-	-	-	FTB	MCG	-	-	0?	-	-
1973-S216	2441889.50	1973 Jul 26	Pershing 1A	-	AO-127	P-267? 73 Spring 08	-	-	-	FTB	MCG	-	-	180?	-	-
1973-S315	2441950.90	1973 Sep 25 0930	Pershing 1A	-	AO-128?	P-268 73 Fall 01	-	-	-	GRLC	-	-	-	180?	-	-
1973-S316	2441950.92	1973 Sep 25 1005	Pershing 1A	-	AO-129?	P-269 73 Fall 02	-	-	-	GRLC	-	-	-	180?	-	-
1973-S331	2441965.89	1973 Oct 10 0928	Pershing 1A	-	AO-130	P-270 73 Fall 03	-	-	-	GRLC	-	-	-	180?	-	-
1973-S332	2441965.99	1973 Oct 10 1141	Pershing 1A	-	AO-131	P-271 73 Fall 04	-	-	-	GRLC	-	-	-	180?	-	-
1973-S333	2441979.93	1973 Oct 24 1015	Pershing 1A	-	AO-132	P-272 73 Fall 05	-	-	-	GRLC	-	-	-	180?	-	-
1973-S334	2441979.96	1973 Oct 24 1105	Pershing 1A	-	AO-133	P-273 73 Fall 06	-	-	-	GRLC	-	-	-	180?	-	-
1973-S372	2441999.93	1973 Nov 13 1015	Pershing 1A	-	AO-134?	P-274 73 Fall 07	-	-	-	GRLC	-	-	-	180?	-	-
1973-S373	2441999.95	1973 Nov 13 1055	Pershing 1A	-	AO-135?	P-275 73 Fall 08	-	-	-	GRLC	-	-	-	180?	-	-
1973-S374	2442013.50	1973 Nov 27	Pershing 1A	-	AO-136?	P-276 73 Fall 09	-	-	-	GRLC	-	-	-	180?	-	-
1973-S375	2442013.50	1973 Nov 27	Pershing 1A	-	AO-137?	P-277 73 Fall 10	-	-	-	GRLC	-	-	-	180?	-	-
1973-S425	2442022.93	1973 Dec 6 1015	Pershing 1A	-	AO-138?	P-278 73 Fall 11	-	-	-	GRLC	-	-	-	180?	-	-
1973-S426	2442022.95	1973 Dec 6 1045	Pershing 1A	-	AO-139 *	P-279 73 Fall 12	-	-	-	GRLC	-	-	-	180?	-	-
1974-S189	2442175.29	1974 May 7 1900	Pershing 1A	-	103	P-280 74 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1974-S190	2442175.30	1974 May 7 1915	Pershing 1A	-	104	P-281 74 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1974-S191	2442175.34	1974 May 7 2005	Pershing 1A	-	102	P-282 74 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1974-S192	2442175.35	1974 May 7 2021	Pershing 1A	-	101	P-283 74 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1974-S200	2442189.04	1974 May 21 1304	Pershing 1A	-	109	P-284 74 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1974-S201	2442189.05	1974 May 21 1318	Pershing 1A	-	110	P-285 74 Cape 06	-	-	-	CC	LC16	-	-	180?	-	-
1974-S202	2442189.06	1974 May 21 1328	Pershing 1A	-	111	P-286 74 Cape 07	-	-	-	CC	LC16	-	-	40?	-	-
1974-S203	2442189.11	1974 May 21 1443	Pershing 1A	-	112	P-287 74 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1974-A25	2442199.29	1974 May 31 1900	Pershing 1A	-	105	P-288 74 Cape 09	-	-	-	CC	LC16	-	-	40?	-	-
1974-S209	2442199.30	1974 May 31 1915	Pershing 1A	-	106	P-289 74 Cape 10	-	-	-	CC	LC16	-	-	180?	-	-
1974-S210	2442199.34	1974 May 31 2005	Pershing 1A	-	107	P-290 74 Cape 11	-	-	-	CC	LC16	-	-	180?	-	-
1974-S211	2442199.35	1974 May 31 2021	Pershing 1A	-	108	P-291 74 Cape 12	-	-	-	CC	LC16	-	-	180?	-	-
1974-S331	2442338.09	1974 Oct 17 1410	Pershing 1A	-	AO-140?	P-292 74 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S332	2442338.13	1974 Oct 17 1508	Pershing 1A	-	AO-141?	P-293 74 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S333	2442352.13	1974 Oct 31 1502	Pershing 1A	-	AO-142?	P-294 74 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S334	2442352.18	1974 Oct 31 1625	Pershing 1A	-	AO-143?	P-295 74 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S368	2442377.08	1974 Nov 25 1400	Pershing 1A	-	AO-144	P-296 74 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S369	2442377.13	1974 Nov 25 1501	Pershing 1A	-	AO-145	P-297 74 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S396	2442387.50	1974 Dec 6	Pershing 1A	-	AO-146	P-298 74 Fall 07	-	-	-	FTB	MCG	-	-	180?	-	-
1974-S397	2442387.50	1974 Dec 6	Pershing 1A	-	AO-147	P-299 74 Fall 08	-	-	-	FTB	MCG	-	-	180?	-	-
1975-S152	2442545.89	1975 May 13 0925	Pershing 1A	-	AO-148	P-300 75 Spring 01	-	-	-	GRLC	-	-	-	180?	-	-
1975-S153	2442545.91	1975 May 13 0952	Pershing 1A	-	AO-149	P-301 75 Spring 02	-	-	-	GRLC	-	-	-	180?	-	-
1975-S163	2442560.90	1975 May 28 0938	Pershing 1A	-	AO-150	P-302 75 Spring 03	-	-	-	GRLC	-	-	-	180?	-	-
1975-S164	2442560.92	1975 May 28 1004	Pershing 1A	-	AO-151	P-303 75 Spring 04	-	-	-	GRLC	-	-	-	180?	-	-
1975-S198	2442574.89	1975 Jun 11 0922	Pershing 1A	-	AO-152?	P-304 75 Spring 05	-	-	-	GRLC	-	-	-	180?	-	-
1975-S199	2442574.92	1975 Jun 11 1000	Pershing 1A	-	AO-153?	P-305 75 Spring 06	-	-	-	GRLC	-	-	-	180?	-	-
1975-S213	2442588.50	1975 Jun 25	Pershing 1A	-	AO-154?	P-306 75 Spring 07	-	-	-	GRLC	-	-	-	180?	-	-
1975-S214	2442588.50	1975 Jun 25	Pershing 1A	-	AO-155?	P-307 75 Spring 08	-	-	-	GRLC	-	-	-	180?	-	-
1975-S227	2442617.13	1975 Jul 23 1504	Pershing 1A	-	FOT-37	P-308 75 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1975-S228	2442617.19	1975 Jul 23 1638	Pershing 1A	-	FOT-38	P-309 75 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1975-S229	2442617.20	1975 Jul 23 1653	Pershing 1A	-	FOT-39	P-310 75 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1975-S231	2442618.28	1975 Jul 24 1849	Pershing 1A	-	FOT-40	P-311 75 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1975-S234	2442630.17	1975 Aug 5 1604	Pershing 1A	-	FOT-41	P-312 75 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1975-A45	2442630.18	1975 Aug 5 1620	Pershing 1A	-	FOT-42	P-313 75 Cape 06	-	-	-	CC	LC16	-	-	40?	-	-
1975-S235	2442630.26	1975 Aug 5 1816	Pershing 1A	-	FOT-43	P-314 75 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1975-S236	2442630.27	1975 Aug 5 1832	Pershing 1A	-	FOT-44	P-315 75 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1975-A47	2442650.16	1975 Aug 25 1554	Pershing 1A	-	FOT-45	P-316 75 Cape 09	-	-	-	CC	LC16	-	-	40?	-	-
1975-S253	2442650.23	1975 Aug 25 1732	Pershing 1A	-	FOT-46	P-317 75 Cape 10	-	-	-	CC	LC16	-	-	180?	-	-
1975-S256	2442651.27	1975 Aug 26 1832	Pershing 1A	-	FOT-47	P-318 75 Cape 11	-	-	-	CC	LC16	-	-	180?	-	-
1975-A48	2442651.28	1975 Aug 26 1849	Pershing 1A	-	FOT-48	P-319 75 Cape 12	-	-	-	CC	LC16	-	-	40?	-	-
1975-S287	2442692.50	1975 Oct 7	Pershing 1A	-	AO-156	P-320 75 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1975-S288	2442692.50	1975 Oct 7	Pershing 1A	-	AO-157	P-321 75 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1975-S289	2442706.90	1975 Oct 21 0935	Pershing 1A	-	AO-158	P-322 75 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1975-S358	2442706.92	1975 Oct 21 1010	Pershing 1A	-	AO-159 *	P-323 75 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S06	2442792.92	1976 Jan 15 1000	Pershing 1A	-	AO-160	P-324 76 Winter 01	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S07	2442792.96	1976 Jan 15 1100?	Pershing 1A	-	AO-161	P-325 76 Winter 02	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S355	2442793.00	1976 Jan 15 1200?	Pershing 1A	-	AO-162	P-326 76 Winter 03	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S356	2442793.08	1976 Jan 15 1355	Pershing 1A	-	AO-163	P-327 76 Winter 04	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S170	2442903.08	1976 May 4 1402	Pershing 1A	-	AO-164	P-328 76 Spring 01	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S171	2442903.11	1976 May 4 1440	Pershing 1A	-	AO-165	P-329 76 Spring 02	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S172	2442916.88	1976 May 18 0910	Pershing 1A	-	AO-166	P-330 76 Spring 03	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S173	2442916.90	1976 May 18 0935	Pershing 1A	-	AO-167	P-331 76 Spring 04	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S190	2442932.14	1976 Jun 2 1519	Pershing 1A	-	AO-168	P-332 76 Spring 05	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S191	2442932.16	1976 Jun 2 1545	Pershing 1A	-	AO-169	P-333 76 Spring 06	-	-	-	FTB	MCG	-	-	180?	-	-
1976-S192	2442959.05	1976 Jun 29 1308	Pershing 1A	-	AO-170	P-334 76 Spring 07	P-II Penetrator Test?	-	-	FW	-	-	-	180?	-	-
1976-S193	2442959.12	1976 Jun 29 1456	Pershing 1A	-	AO-171	P-335 76 Spring 08	-	-	-	FW	-	-	-	180?	-	WS
1976-S308	2443078.25	1976 Oct 26 1806	Pershing 1A	-	FOT-49	P-336? 76 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1976-S309	2443078.30	1976 Oct 26 1912	Pershing 1A	-	FOT-50	P-337? 76 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1976-S310	2443078.35	1976 Oct 26 2021	Pershing 1A	-	FOT-51	P-338? 76 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1976-S311	2443078.36	1976 Oct 26 2039	Pershing 1A	-	FOT-52	P-339? 76 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1977-S85	2443192.26	1977 Feb 17 1812	Pershing 1A	-	FOT-53?	P-340? 76 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1977-S97	2443205.27	1977 Mar 2 1828	Pershing 1A	-	FOT-54?	P-341? 76 Cape 06	-	-	-	CC	LC16	-	-	10?	-	-
1977-A13	2443205.29	1977 Mar 2 1853	Pershing 1A	-	FOT-55?	P-342? 76 Cape 07	-	-	-	CC	LC16	-	-	0	-	-
1977-S98	2443205.35	1977 Mar 2 2031	Pershing 1A	-	FOT-56?	P-343? 76 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1977-A14	2443205.40	1977 Mar 2 2142	Pershing 1A	-	FOT-57?	P-344? 76 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
							Launch									
1977-S155	2443267.16	1977 May 3 1549	Pershing 1A	-	AO-172	P-345 77 Spring 01	-	-	-	FTB	MCG	-	-	180?	-	-
1977-S156	2443267.19	1977 May 3 1630	Pershing 1A	-	AO-173	P-346 77 Spring 02	-	-	-	FTB	MCG	-	-	180?	-	-
1977-S157	2443281.13	1977 May 17 1513	Pershing 1A	-	AO-174	P-347 77 Spring 03	-	-	-	FTB	MCG	-	-	180?	-	-
1977-S158	2443281.20	1977 May 17 1653	Pershing 1A	-	AO-175	P-348 77 Spring 04	-	-	-	FTB	MCG	-	-	180?	-	-
1977-S159	2443296.14	1977 Jun 1 1519	Pershing 1A	-	AO-176?	P-349 77 Spring 05	P-340?	-	-	FTB	MCG	-	-	180?	-	-
1977-S160	2443296.16	1977 Jun 1 1545	Pershing 1A	-	AO-177?	P-350 77 Spring 06	P-341?	-	-	FTB	MCG	-	-	180?	-	-
1977-S161	2443309.09	1977 Jun 14 1407	Pershing 1A	-	AO-178?	P-351 77 Spring 07	-	-	-	FTB	MCG	-	-	180?	-	-
1977-S162	2443309.11	1977 Jun 14 1442	Pershing 1A	-	AO-179?	P-352 77 Spring 08	-	-	-	FTB	MCG	-	-	0?	-	-
1977-S286	2443466.13	1977 Nov 18 1504	Pershing 1A	-	AO-180	P-353 77 Winter 01	P-II RV test 1	P2AD Penetrator	-	FTB	MCG	-	-	180?	-	-
1977-S270	2443486.13	1977 Dec 8 1505	Pershing 1A	-	AO-181?	P-354 77 Winter 02	P-II RV test 2	P2AD Penetrator	-	FTB	MCG	-	-	180?	-	-
1978-S376	2443560.50	1978 Feb 21	Pershing 1A	-	AO-182	P-355 77 Winter 03	P-II RV test 3	P2AD Penetrator	-	FTB	MCG	-	-	1?	-	-
1978-S274	2443598.09	1978 Mar 30 1404	Pershing 1A	-	AO-183	P-356? 77 Winter 04	P-II RV test 4	P2AD Penetrator	-	FTB	MCG	-	-	180?	-	WS
1978-S140	2443647.04	1978 May 18 1300?	Pershing 1A	-	AO-184	P-357? 77 Winter 05	P-II RV test 5	P2AD Penetrator	-	FTB	MCG	-	-	180?	-	WS
1978-S180	2443703.11	1978 Jul 13 1437	Pershing 1A	-	FOT-111	P-358? 78 Cape 01	-	-	-	CC	LC16	-	-	180?	750	-
1978-S181	2443703.21	1978 Jul 13 1657	Pershing 1A	-	FOT-112	P-359? 78 Cape 02	-	-	-	CC	LC16	-	-	180?	750	-
1978-S182	2443703.26	1978 Jul 13 1809	Pershing 1A	-	FOT-113	P-360? 78 Cape 03	-	-	-	CC	LC16	-	-	180?	750	-
1978-S186	2443715.10	1978 Jul 25 1430	Pershing 1A	-	FOT-115	P-361? 78 Cape 04	-	-	-	CC	LC16	-	-	180?	750	-
1978-S187	2443715.12	1978 Jul 25 1448	Pershing 1A	-	FOT-114	P-362? 78 Cape 05	-	-	-	CC	LC16	-	-	180?	750	-
1978-S188	2443715.13	1978 Jul 25 1506	Pershing 1A	-	FOT-116	P-363? 78 Cape 06	-	-	-	CC	LC16	-	-	180?	750	-
1978-S201	2443746.05	1978 Aug 25 1306	Pershing 1A	-	FOT-117	P-364? 78 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1978-S202	2443746.06	1978 Aug 25 1323	Pershing 1A	-	FOT-118	P-365? 78 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1978-S203	2443746.08	1978 Aug 25 1353	Pershing 1A	-	FOT-119	P-366? 78 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-
1978-S338	2443801.09	1978 Oct 19 1405	Pershing 1A	-	AO-186?	P-367? 78 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S339	2443801.11	1978 Oct 19 1435	Pershing 1A	-	AO-187?	P-368? 78 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S340	2443819.50	1978 Nov 7	Pershing 1A	-	AO-188?	P-369? 78 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S341	2443819.50	1978 Nov 7	Pershing 1A	-	AO-189?	P-370? 78 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S342	2443833.13	1978 Nov 20 1505	Pershing 1A	-	AO-190?	P-371? 78 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S343	2443833.15	1978 Nov 20 1540	Pershing 1A	-	AO-191?	P-372? 78 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S276	2443847.50	1978 Dec 5	Pershing 1A	-	AO-192?	P-373? 78 Fall 07	-	-	-	FTB	MCG	-	-	180?	-	-
1978-S277	2443847.50	1978 Dec 5	Pershing 1A	-	AO-193?	P-374? 78 Fall 08	-	-	-	FTB	MCG	-	-	180?	-	-
1979-S68	2443927.11	1979 Feb 22 1443	Pershing 1A	-	FOT-121	P-375? 78 Cape 10	-	-	-	CC	LC16	-	-	180?	-	-
1979-S69	2443927.12	1979 Feb 22 1500	Pershing 1A	-	FOT-122	P-376? 78 Cape 11	-	-	-	CC	LC16	-	-	180?	-	-
1979-S70	2443927.14	1979 Feb 22 1519	Pershing 1A	-	FOT-120	P-377? 78 Cape 12	-	-	-	CC	LC16	-	-	180?	-	-
1979-S132	2443989.13	1979 Apr 25 1503	Pershing 1A	-	FOT-125	P-378? 78 Cape 13	-	-	-	CC	LC16	-	-	180?	-	-
1979-S133	2443989.14	1979 Apr 25 1517	Pershing 1A	-	FOT-124	P-379? 78 Cape 14	-	-	-	CC	LC16	-	-	180?	-	-
1979-S134	2443989.15	1979 Apr 25 1540	Pershing 1A	-	FOT-123	P-380? 78 Cape 15	-	-	-	CC	LC16	-	-	180?	-	-
1979-S135	2444003.21	1979 May 9 1700	Pershing 1A	-	FOT-128	P-381? 78 Cape 16	-	-	-	CC	LC16	-	-	180?	-	-
1979-S136	2444003.27	1979 May 9 1829	Pershing 1A	-	FOT-126	P-382? 78 Cape 17	-	-	-	CC	LC16	-	-	180?	-	-
1979-S137	2444003.28	1979 May 9 1850	Pershing 1A	-	FOT-127	P-383? 78 Cape 18	-	-	-	CC	LC16	-	-	180?	-	-
1979-S264	2444191.13	1979 Nov 13 1506	Pershing 1A	-	AO-196?	P-384? 79 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1979-S265	2444212.13	1979 Dec 4 1504	Pershing 1A	-	AO-194	P-385? 79 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	WS
1979-S292	2444212.15	1979 Dec 4 1536	Pershing 1A	-	AO-195	P-386? 79 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	WS
1980-S40	2444282.16	1980 Feb 12 1551	Pershing 1A	-	FOT-131	P-387? 80 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1980-S41	2444282.19	1980 Feb 12 1627	Pershing 1A	-	FOT-129	P-388? 80 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1980-S91	2444353.13	1980 Apr 23 1504	Pershing 1A	-	FOT-132	P-389? 80 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1980-S92	2444353.14	1980 Apr 23 1522	Pershing 1A	-	FOT-133	P-390? 80 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1980-S93	2444353.15	1980 Apr 23 1539	Pershing 1A	-	FOT-134	P-391? 80 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1980-S94	2444353.17	1980 Apr 23 1605	Pershing 1A	-	FOT-135	P-392? 80 Cape 06	-	-	-	CC	LC16	-	-	180?	-	-
1980-S104	2444367.11	1980 May 7 1440	Pershing 1A	-	FOT-130?	P-393? 80 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1980-S105	2444367.12	1980 May 7 1459	Pershing 1A	-	FOT-136	P-394? 80 Cape 08	-	-	-	CC	LC16	-	-	50?	-	-
1980-S106	2444367.17	1980 May 7 1558	Pershing 1A	-	FOT-137	P-395? 80 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-
1980-S108	2444375.12	1980 May 15 1451	Pershing 1A	-	FOT-138 AOR	P-396? 80 Cape 10	Artillery Ord Round	-	-	CC	LC16	-	-	180?	-	-
1980-S185	2444520.17	1980 Oct 7 1610	Pershing 1A	-	AO-197	P-397 80 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S186	2444520.20	1980 Oct 7 1654	Pershing 1A	-	AO-198	P-398 80 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S187	2444528.08	1980 Oct 15 1402	Pershing 1A	-	AO-199	P-399 80 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S188	2444528.11	1980 Oct 15 1434	Pershing 1A	-	AO-200	P-400 80 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S250	2444540.50	1980 Oct 28	Pershing 1A	-	AO-201	P-401? 80 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S251	2444540.50	1980 Oct 28	Pershing 1A	-	AO-202	P-402? 80 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-
1980-S252	2444561.50	1980 Nov 18	Pershing 1A	-	AO-203	P-403? 80 Fall 07	-	-	-	FTB	MCG	-	-	180?	-	WS
1980-S253	2444561.50	1980 Nov 18	Pershing 1A	-	AO-204	P-404 80 Fall 08	-	-	-	FTB	MCG	-	-	180?	-	WS
1981-S59	2444640.12	1981 Feb 4 1500	Pershing 1A	-	FOT-141	P-405? 81 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1981-S60	2444640.15	1981 Feb 4 1533	Pershing 1A	-	FOT-139	P-406? 81 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1981-S61	2444640.16	1981 Feb 4 1553	Pershing 1A	-	FOT-140	P-407? 81 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1981-S68	2444653.22	1981 Feb 17 1715	Pershing 1A	-	FOT-143	P-408? 81 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1981-S69	2444653.24	1981 Feb 17 1751	Pershing 1A	-	FOT-142	P-409? 81 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1981-S70	2444653.30	1981 Feb 17 1917	Pershing 1A	-	FOT-144	P-410? 81 Cape 06	-	-	-	CC	LC16	-	-	180?	-	-
1981-S97	2444702.08	1981 Apr 7 1400	Pershing 1A	-	FOT-146	P-411? 81 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1981-S98	2444702.10	1981 Apr 7 1419	Pershing 1A	-	FOT-147	P-412? 81 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1981-S99	2444702.11	1981 Apr 7 1440	Pershing 1A	-	FOT-148	P-413? 81 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-
1981-S209	2444870.18	1981 Sep 22 1615	Pershing 1A	-	AO-205	P-414? 81 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S210	2444870.20	1981 Sep 22 1648	Pershing 1A	-	AO-206	P-415? 81 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S211	2444876.50	1981 Sep 29	Pershing 1A	-	AO-207	P-416? 81 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S212	2444876.50	1981 Sep 29	Pershing 1A	-	AO-208	P-417? 81 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S213	2444891.17	1981 Oct 13 1600	Pershing 1A	-	AO-209?	P-418? 81 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S214	2444891.19	1981 Oct 13 1630	Pershing 1A	-	AO-210?	P-419? 81 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S215	2444898.50	1981 Oct 21	Pershing 1A	-	AO-211?	P-420? 81 Fall 07	-	-	-	FTB	MCG	-	-	180?	-	-
1981-S164	2444898.50	1981 Oct 21	Pershing 1A	-	AO-212 Pos 2-1	P-421? 81 Fall 08	-	-	-	FTB	MCG	-	-	180?	-	-
1982-S38	2444990.12	1982 Jan 20 1459	Pershing 1A	-	-	P-422? 82 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1982-S39	2444990.14	1982 Jan 20 1519	Pershing 1A	-	-	P-423? 82 Cape 02	-	-	-	CC	LC16	-	-	10?	-	-
1982-S40	2444990.30	1982 Jan 20 1906	Pershing 1A	-	-	P-424? 82 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1982-S59	2445025.09	1982 Feb 24 1404	Pershing 1A	-	-	P-425? 82 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1982-S60	2445025.12	1982 Feb 24 1455	Pershing 1A	-	-	P-426? 82 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1982-S61	2445025.13	1982 Feb 24 1514	Pershing 1A	-	-	P-427? 82 Cape 06	-	-	-	CC	LC16	-	-	180?	-	-
1982-S75	2445039.13	1982 Mar 10 1501	Pershing 1A	-	-	P-428? 82 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1982-S76	2445039.14	1982 Mar 10 1517	Pershing 1A	-	-	P-429? 82 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1982-S77	2445039.18	1982 Mar 10 1626	Pershing 1A	-	-	P-430? 82 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-S141	2445173.12	1982 Jul 22 1449	Pershing 2	-	ED-1	P-431? P-II F1	-	-	-	CC	LC16	-	-	1?	-	-
1982-S252	2445206.19	1982 Aug 24 1634	Pershing 1A	-	AO-213	P-432? 82 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1982-S253	2445206.21	1982 Aug 24 1700	Pershing 1A	-	AO-214	P-433? 82 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1982-S254	2445214.17	1982 Sep 1 1600	Pershing 1A	-	AO-215	P-434? 82 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1982-S255	2445214.20	1982 Sep 1 1646	Pershing 1A	-	AO-216	P-435? 82 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1982-S191	2445293.27	1982 Nov 19 1830	Pershing 2	-	ED-3?	P-436?	-	-	-	FTB	MCG	-	-	320	-	-
1983-S49	2445356.12	1983 Jan 21 1448	Pershing 2	-	ED-10	P-437?	-	-	-	CC	LC16	-	-	314	-	-
1983-S58	2445375.13	1983 Feb 9 1506	Pershing 2	-	ED-2	P-438?	-	-	-	CC	LC16	-	-	342	-	-
1983-S63	2445392.20	1983 Feb 26 1655	Pershing 2	1	ED-5	P-439?	-	-	-	FTB	MCG	-	-	209	-	-
1983-S75	2445407.19	1983 Mar 13 1635	Pershing 2	1	ED-4	P-440? (1-stage)	-	-	-	FTB	MCG	-	-	316	-	-
1983-S83	2445422.15	1983 Mar 28 1529	Pershing 2	-	ED-9	P-441?	-	-	-	CC	LC16	-	-	330	-	-
1983-S88	2445435.33	1983 Apr 10 1955	Pershing 2	-	ED-8	P-442?	-	-	-	CC	LC16	-	-	180?	-	-
1983-S91	2445449.13	1983 Apr 24 1513	Pershing 2	1	ED-6?	P-443?	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S97	2445461.26	1983 May 6 1812	Pershing 2	1	ED-7	P-444?	-	-	-	FTB	MCG	-	-	316	-	-
1983-S103	2445482.12	1983 May 27 1448	Pershing 2	-	ED-11	P-445?	-	-	-	CC	LC16	-	-	180?	-	-
1983-S109	2445488.12	1983 Jun 2 1446	Pershing 2	-	ED-14	P-446?	-	-	-	CC	LC16	-	-	180?	-	-
1983-S117	2445505.13	1983 Jun 19 1512	Pershing 2	1	ED-13	P-447?	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S119	2445510.15	1983 Jun 24 1531	Pershing 2	1	ED	P-448?	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S127	2445532.13	1983 Jul 16 1513	Pershing 2	1	ED	P-449?	-	-	-	FTB	MCG	-	-	365	-	-
1983-S131	2445543.09	1983 Jul 27 1415	Pershing 2	-	ED-17	P-450?	-	-	-	CC	LC16	-	-	90?	-	-
1983-S162	2445585.21	1983 Sep 7 1704	Pershing 2	-	ED-18	P-451?	-	-	-	CC	LC16	-	-	320	-	-
1983-S165	2445596.12	1983 Sep 18 1500	Pershing 2	1	ED-15/20	P-452?	-	-	-	FTB	MCG	-	-	317	-	-
1983-S170	2445606.00	1983 Sep 28 1205	Pershing 1A	-	-	P-453? 83 Cape 01	-	-	-	CC	LC16	-	-	180?	-	-
1983-S171	2445606.06	1983 Sep 28 1321	Pershing 1A	-	-	P-454? 83 Cape 02	-	-	-	CC	LC16	-	-	180?	-	-
1983-S172	2445606.11	1983 Sep 28 1434	Pershing 1A	-	-	P-455? 83 Cape 03	-	-	-	CC	LC16	-	-	180?	-	-
1983-S173	2445606.12	1983 Sep 28 1455	Pershing 1A	-	-	P-456? 83 Cape 04	-	-	-	CC	LC16	-	-	180?	-	-
1983-S174	2445606.18	1983 Sep 28 1617	Pershing 1A	-	-	P-457? 83 Cape 05	-	-	-	CC	LC16	-	-	180?	-	-
1983-S190	2445621.18	1983 Oct 13 1625	Pershing 1A	-	-	P-458? 83 Cape 06	-	-	-	CC	LC16	-	-	180?	-	-
1983-S191	2445621.20	1983 Oct 13 1650	Pershing 1A	-	-	P-459? 83 Cape 07	-	-	-	CC	LC16	-	-	180?	-	-
1983-S192	2445621.22	1983 Oct 13 1713	Pershing 1A	-	-	P-460? 83 Cape 08	-	-	-	CC	LC16	-	-	180?	-	-
1983-S193	2445621.24	1983 Oct 13 1743	Pershing 1A	-	-	P-461? 83 Cape 09	-	-	-	CC	LC16	-	-	180?	-	-
1983-S258	2445647.22	1983 Nov 8 1721	Pershing 1A	-	AO-217	P-462? 83 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S259	2445647.24	1983 Nov 8 1745	Pershing 1A	-	AO-218	P-463? 83 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S260	2445654.50	1983 Nov 16	Pershing 1A	-	AO-219	P-464? 83 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1983-S261	2445657.20	1983 Nov 18 1651	Pershing 1A	-	AO-220	P-465? 83 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1984-S90	2445837.10	1984 May 16 1431	Pershing 2	-	ED-21	P-466?	-	-	-	CC	LC16	-	-	320?	-	-
1984-S106	2445920.00	1984 Aug 7 1200	Pershing 2	-	ED-22	P-467?	-	-	-	CC	LC16	-	-	320?	-	-
1984-S118	2445964.10	1984 Sep 20 1430	Pershing 2	-	AO-1?	P-468? Hot Shot	-	-	-	CC	LC16	-	-	320?	-	-
1984-S120	2445977.10	1984 Oct 3 1422	Pershing 2	-	AO-2?	P-469? Hot Shot	-	-	-	CC	LC16	-	-	320?	-	-
1984-S205	2446018.15	1984 Nov 13 1536	Pershing 1A	-	AO-225	P-470?	-	-	-	FTB	MCG	-	-	180?	-	-
1984-S206	2446018.17	1984 Nov 13 1603	Pershing 1A	-	AO-226	P-471?	-	-	-	FTB	MCG	-	-	180?	-	-
1984-S207	2446018.26	1984 Nov 13 1810	Pershing 1A	-	AO-227	P-472?	-	-	-	FTB	MCG	-	-	180?	-	-
1984-S208	2446018.27	1984 Nov 13 1830	Pershing 1A	-	AO-228	P-473?	-	-	-	FTB	MCG	-	-	180?	-	-
1985-S143	2446416.04	1985 Dec 16 1303	Pershing 2	-	SSO-1 Sys. Shakedn.	P-474? 85 Cape 01	-	-	-	CC	LC16	-	-	320?	-	-
1985-S145	2446417.17	1985 Dec 17 1602	Pershing 2	-	SSO-2	P-475? 85 Cape 02	-	-	-	CC	LC16	-	-	320?	-	-
1985-S146	2446417.40	1985 Dec 17 2137	Pershing 2	-	SSO-3	P-476? 85 Cape 03	-	-	-	CC	LC16	-	-	320?	-	-
1986-S131	2446475.50	1986 Feb 14	Pershing 2	1	-	P-477? 86 Spring 01	-	-	-	FTB	MCG	-	-	320?	-	-
1986-S132	2446475.50	1986 Feb 14	Pershing 2	1	-	P-478? 86 Spring 01	-	-	-	FTB	MCG	-	-	320?	-	-
1986-S133	2446475.50	1986 Feb 14	Pershing 2	1	-	P-479? 86 Spring 01	-	-	-	FTB	MCG	-	-	320?	-	-
1986-S57	2446606.08	1986 Jun 24 1356:05	Pershing 2	-	DASO-1	P-480? 86 Cape 01	-	-	-	CC	LC16	-	-	320?	-	-
1986-S58	2446606.14	1986 Jun 24 1523	Pershing 2	-	DASO-2	P-481? 86 Cape 02	-	-	-	CC	LC16	-	-	320?	-	-
1986-S59	2446606.19	1986 Jun 24 1633	Pershing 2	-	DASO-3	P-482? 86 Cape 03	-	-	-	CC	LC16	-	-	320?	-	-
1986-S60	2446608.05	1986 Jun 26 1305	Pershing 2	-	DASO-4	P-483? 86 Cape 04	-	-	-	CC	LC16	-	-	320?	-	-
1986-S61	2446608.20	1986 Jun 26 1647	Pershing 2	-	DASO-5	P-484? 86 Cape 05	-	-	-	CC	LC16	-	-	320?	-	-
1986-S127	2446744.50	1986 Nov 10	Pershing 1A	-	AO-229	P-485? 86 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1986-S128	2446745.54	1986 Nov 11 0100?	Pershing 1A	-	AO-230	P-486? 86 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1986-S129	2446751.50	1986 Nov 17	Pershing 1A	-	AO-231	P-487? 86 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1986-S130	2446751.50	1986 Nov 17	Pershing 1A	-	AO-232	P-488? 86 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S196	2446825.50	1987 Jan 30	Pershing 2	1	OT-33	P-489? 87 Spring 01	-	Site L-1-2	-	FTB	MCG	-	-	320?	-	-
1987-S197	2446825.50	1987 Jan 30	Pershing 2	1	OT-34	P-490? 87 Spring 01	-	Site L-1-3	-	FTB	MCG	-	-	320?	-	-
1987-S198	2446825.50	1987 Jan 30	Pershing 2	1	OT-35	P-491? 87 Spring 01	-	Site L-2-1	-	FTB	MCG	-	-	320?	-	-
1987-S199	2446825.50	1987 Jan 30	Pershing 2	1	OT-37	P-492? 87 Spring 01	-	Site L-2-3	-	FTB	MCG	-	-	320?	-	-
1987-S200	2446825.50	1987 Jan 30	Pershing 2	1	OT-32	P-493? 87 Spring 01	-	Site L-1-1	-	FTB	MCG	-	-	320?	-	-
1987-S67	2446879.06	1987 Mar 24 1333:06	Pershing 2	-	-	P-494? 87 Cape 01	-	-	-	CC	LC16	-	-	320?	-	-
1987-S68	2446879.08	1987 Mar 24 1352:07	Pershing 2	-	-	P-495? 87 Cape 02	-	-	-	CC	LC16	-	-	320?	-	-
1987-S69	2446879.09	1987 Mar 24 1413:07	Pershing 2	-	-	P-496? 87 Cape 03	-	-	-	CC	LC16	-	-	320?	-	-
1987-S70	2446879.15	1987 Mar 24 1534:05	Pershing 2	-	-	P-497? 87 Cape 04	-	-	-	CC	LC16	-	-	320?	-	-
1987-S71	2446879.16	1987 Mar 24 1554:05	Pershing 2	-	-	P-498? 87 Cape 05	-	-	-	CC	LC16	-	-	320?	-	-
1987-S72	2446879.18	1987 Mar 24 1617:05	Pershing 2	-	-	P-499? 87 Cape 06	-	-	-	CC	LC16	-	-	320?	-	-
1987-S86	2446936.58	1987 May 21 0200:07	Pershing 2	-	- P2-45	P-500 87 Cape 07	-	-	-	CC	LC16	-	-	320?	-	-
1987-S87	2446936.60	1987 May 21 0219:02	Pershing 2	-	-	P-501? 87 Cape 08	-	-	-	CC	LC16	-	-	320?	-	-
1987-S88	2446936.61	1987 May 21 0240:07	Pershing 2	-	-	P-502? 87 Cape 09	-	-	-	CC	LC16	-	-	320?	-	-
1987-S89	2446936.67	1987 May 21 0400:08	Pershing 2	-	-	P-503? 87 Cape 10	-	-	-	CC	LC16	-	-	320?	-	-
1987-S90	2446936.69	1987 May 21 0433:08	Pershing 2	-	-	P-504? 87 Cape 11	-	-	-	CC	LC16	-	-	320?	-	-
1987-S91	2446936.70	1987 May 21 0451:05	Pershing 2	-	-	P-505? 87 Cape 12	-	-	-	CC	LC16	-	-	320?	-	-
1987-S113	2447004.03	1987 Jul 27 1238:07	Pershing 2	-	-	P-506? 87 Cape 13	-	-	-	CC	LC16	-	-	320?	-	-
1987-S114	2447004.04	1987 Jul 27 1257:06	Pershing 2	-	-	P-507? 87 Cape 14	-	-	-	CC	LC16	-	-	320?	-	-
1987-S115	2447004.14	1987 Jul 27 1520:04	Pershing 2	-	-	P-508? 87 Cape 15	-	-	-	CC	LC16	-	-	320?	-	-
1987-S116	2447004.15	1987 Jul 27 1537:05	Pershing 2	-	- P2-54	P-509? 87 Cape 16	-	-	-	CC	LC16	-	-	320?	-	-
1987-S192	2447109.50	1987 Nov 10	Pershing 1A	-	AO-233 ASP	P-510? 87 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S163	2447109.50	1987 Nov 10	Pershing 1A	-	AO-240?	P-517?	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S193	2447110.53	1987 Nov 11 0045?	Pershing 1A	-	AO-234 ASP	P-511? 87 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S194	2447124.50	1987 Nov 25	Pershing 1A	-	AO-235 ASP	P-512? 87 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S195	2447125.50	1987 Nov 26	Pershing 1A	-	AO-236 ASP	P-513? 87 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S273	2447130.50	1987 Dec 1?	Pershing 2	1	AO-237	P-514? 87 Fall 05	-	-	-	FTB	MCG	-	-	180?	-	-
1987-S274	2447130.50	1987 Dec 1?	Pershing 2	1	AO-238	P-515? 87 Fall 06	-	-	-	FTB	MCG	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S275	2447130.50	1987 Dec 1?	Pershing 2	1	AO-239	P-516? 87 Fall 07	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S164	2447160.50	1988?	Pershing 1A	-	AO-241	P-518?	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S43	2447174.08	1988 Jan 13 1401:05	Pershing 2	-	AO	P-519? 88 Cape 01	-	-	-	CC	LC16	-	-	320?	-	-
1988-S53	2447207.04	1988 Feb 15 1303:03	Pershing 2	-	-	P-520? 88 Cape 02	-	-	-	CC	LC16	-	-	320?	-	-
1988-S54	2447207.06	1988 Feb 15 1321:05	Pershing 2	-	-	P-521? 88 Cape 03	-	-	-	CC	LC16	-	-	320?	-	-
1988-S55	2447207.07	1988 Feb 15 1342:06	Pershing 2	-	-	P-522? 88 Cape 04	-	-	-	CC	LC16	-	-	320?	-	-
1988-S56	2447207.14	1988 Feb 15 1516:04	Pershing 2	-	-	P-523? 88 Cape 05	-	-	-	CC	LC16	-	-	320?	-	-
1988-S57	2447207.15	1988 Feb 15 1542:06	Pershing 2	-	-	P-524? 88 Cape 06	-	-	-	CC	LC16	-	-	320?	-	-
1988-S58	2447207.17	1988 Feb 15 1601:05	Pershing 2	-	- P2-61	P-525? 88 Cape 07	-	-	-	CC	LC16	-	-	320?	-	-
1988-S68	2447242.04	1988 Mar 21 1301:05	Pershing 2	-	-	P-526? 88 Cape 08	-	-	-	CC	LC16	-	-	320?	-	-
1988-S69	2447242.05	1988 Mar 21 1319:05	Pershing 2	-	-	P-527? 88 Cape 09	-	-	-	CC	LC16	-	-	320?	-	-
1988-S70	2447242.09	1988 Mar 21 1413:03	Pershing 2	-	-	P-528? 88 Cape 10	-	-	-	CC	LC16	-	-	320?	-	-
1988-S71	2447242.16	1988 Mar 21 1545:05	Pershing 2	-	-	P-529? 88 Cape 11	-	-	-	CC	LC16	-	-	320?	-	-
1988-S72	2447242.20	1988 Mar 21 1653:04	Pershing 2	-	-	P-530? 88 Cape 12	-	-	-	CC	LC16	-	-	320?	-	-
1988-S170	2447295.10	1988 May 13 1430	Pershing 2	1	AO	P-531?	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S183	2447295.12	1988 May 13 1455	Pershing 2	1	AO	P-532?	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S184	2447295.18	1988 May 13 1615	Pershing 2	1	AO	P-533?	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S185	2447160.50	1988?	Pershing 1A	?	AO-242	P-534?	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S166	2447441.50	1988 Oct 7	Pershing 1A	-	AO-243 Cert. Fir.	P-535? 88 Fall 01	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S167	2447441.50	1988 Oct 7	Pershing 1A	-	AO-244 Cert. Fir.	P-536? 88 Fall 02	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S168	2447455.50	1988 Oct 21	Pershing 1A	-	AO-245 Cert. Fir.	P-537? 88 Fall 03	-	-	-	FTB	MCG	-	-	180?	-	-
1988-S169	2447455.50	1988 Oct 21	Pershing 1A	-	AO-246 Cert. Fir.	P-538? 88 Fall 04	-	-	-	FTB	MCG	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S39	2436990.25	1960 Feb 25 1802	Pershing 1	-	105	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S77	2437045.27	1960 Apr 20 1830	Pershing 1	-	106	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S96	2437065.17	1960 May 10 1600	Pershing 1	-	107	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S121	2437095.18	1960 Jun 9 1619	Pershing 1	-	108	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S159	2437116.17	1960 Jun 30 1600	Pershing 1	-	109	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S197	2437142.17	1960 Jul 26 1600	Pershing 1	-	110	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S293	2437206.32	1960 Sep 28 1938	Pershing 1	-	205	0.000	ABMA	MF	U	-	Test	TM-X-64796	-	-
1960-S366	2437255.27	1960 Nov 16 1825	Pershing 1	-	206	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1960-S402	2437281.28	1960 Dec 12 1842	Pershing 1	-	207	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-A17	2437305.51	1961 Jan 6 0010	Pershing 1	-	208	0.000	ABMA	MF	U	-	Test	TM-X-64796	-	-
1961-S27	2437325.52	1961 Jan 26 0030	Pershing 1	-	209	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S49	2437346.56	1961 Feb 16 0127	Pershing 1	-	210	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S65	2437360.71	1961 Mar 2 0507	Pershing 1	-	211	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S84	2437374.55	1961 Mar 16 0119	Pershing 1	-	212	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S125	2437411.16	1961 Apr 21 1553	Pershing 1	-	308	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S155	2437438.58	1961 May 19 0200	Pershing 1	-	310	0.000	ABMA	MF	U	-	Test	TM-X-64796	-	-
1961-S173	2437459.72	1961 Jun 9 0511	Pershing 1	-	311	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S199	2437481.58	1961 Jul 1 0200	Pershing 1	-	312	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-S212	2437500.58	1961 Jul 20 0200	Pershing 1	-	313	0.000	ABMA	MS	-	-	Test	TM-X-64796	-	-
1961-A186	2437522.58	1961 Aug 11 0149	Pershing 1	-	315	0.000	ABMA	MF	U	-	Test	FDC	Cleary95	-
1961-S249	2437534.58	1961 Aug 23 0155	Pershing 1	-	316	0.000	ABMA	MS	-	-	Test	Ulrich/FDC	Cleary95	-
1961-S279	2437556.56	1961 Sep 14 0130	Pershing 1	-	318	0.000	ABMA	MS	-	-	Test	Cleary95	-	EST
1961-S296	2437569.56	1961 Sep 27 0130	Pershing 1	-	319	0.000	ABMA	MS	-	-	Test	Ulrich/FDC	Cleary95	EST
1961-S328	2437583.57	1961 Oct 11 0134	Pershing 1	-	320	0.000	ABMA	MS	-	-	Test	FDC	Cleary95	EST
1961-S366	2437606.54	1961 Nov 3 0100	Pershing 1	-	322	0.000	ABMA	MS	-	-	Test	Ulrich/WIre	Cleary95	-
1961-S374	2437619.61	1961 Nov 16 0235	Pershing 1	-	323	0.000	ABMA	MS	-	-	Test R=480	Ulrich/WIre	Cleary95	-
1961-S400	2437635.54	1961 Dec 2 0100	Pershing 1	-	324	0.000	ABMA	MS	-	-	Test	Ulrich/WIre	Cleary95	-
1961-S441	2437662.52	1961 Dec 29 0030	Pershing 1	-	327	0.000	ABMA	MS	-	-	Test	FDC	Cleary95	-
1962-S16	2437681.29	1962 Jan 16 1859:59	Pershing 1	-	334	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S23	2437689.64	1962 Jan 25 0326	Pershing 1	-	332	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S43	2437715.54	1962 Feb 20 0100:01	Pershing 1	-	335	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S68	2437739.48	1962 Mar 15 2331:50	Pershing 1	-	328	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S87	2437759.32	1962 Apr 4 1945:45	Pershing 1	-	326	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-A59	2437779.21	1962 Apr 24 1700:00	Pershing 1	-	337	0.000	AOMC	MF	U	-	Test	Cleary95/Wire	MR620430-10	-
1962-S111	2437782.23	1962 Apr 27 1724:45	Pershing 1	-	329	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-A76	2437794.06	1962 May 9 1329:59	Pershing 1	-	330	0.000	AOMC	MF	U	-	Test	Cleary95/UPI	MR620514-10	-
1962-S158	2437820.67	1962 Jun 5 0406:21	Pershing 1	-	339	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-A96	2437830.58	1962 Jun 15 0200:01	Pershing 1	-	342	0.000	AOMC	MF	U	-	Test	nsf-koenn	MR620625	-
1962-S299	2437898.56	1962 Aug 22 0130:00	Pershing 1	-	338	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S344	2437934.59	1962 Sep 27 0214:56	Pershing 1	-	347	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S409	2437960.66	1962 Oct 23 0344:24	Pershing 1	-	351	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S478	2437984.54	1962 Nov 16 0052:22	Pershing 1	-	348	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	0152/Ulrich
1962-S492	2437996.59	1962 Nov 28 0212:08	Pershing 1	-	354	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S548	2438009.62	1962 Dec 11 0255:29	Pershing 1	-	353	0.000	AOMC	MS	-	-	Test	nsf-koenn/Ulrich	Cleary95	-
1963-S13	2438047.65	1963 Jan 18 0332:50	Pershing 1	-	358	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S26	2438060.52	1963 Jan 31 0030:05	Pershing 1	-	363	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S48	2438075.53	1963 Feb 15 0045:00	Pershing 1	-	403	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S66	2438086.56	1963 Feb 26 0131:43	Pershing 1	-	406	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S79	2438093.54	1963 Mar 5 0100:01	Pershing 1	-	405	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S91	2438102.57	1963 Mar 14 0146:04	Pershing 1	-	407	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S107	2438110.55	1963 Mar 22 0115	Pershing 1	-	410	0.000	AOMC	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S131	2438123.64	1963 Apr 4 0325	Pershing 1	-	408	0.000	AOMC	MS	-	-	Test	Wire/Ulrich	Cleary95	-
1963-S135	2438125.53	1963 Apr 6 0044:55	Pershing 1	-	511	0.000	MMO/AOMC	MS	-	-	Test	nsf-koenn	MR630415-10	-
1963-S146	2438132.31	1963 Apr 12 1929:21	Pershing 1	-	515	0.000	44FA2	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S151	2438137.19	1963 Apr 17 1639	Pershing 1	-	520	0.000	44FA2	MS	-	-	Test	LawtonCon630418	Cleary95	-
1963-S171	2438144.36	1963 Apr 24 2040:49	Pershing 1	-	521	0.000	44FA2	MS	-	-	Test	nsf-koenn	Cleary95	UPI:2030Z
1963-S398	2438261.50	1963 Aug 20	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR630826-14	-	-
1963-S408	2438268.50	1963 Aug 27	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR630902-10	-	-
1963-S451	2438297.21	1963 Sep 24 1702	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR630930-18	SP-4004	-
1963-S452	2438298.07	1963 Sep 25 1340	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR630930-18	-	-
1963-S454	2438298.46	1963 Sep 25 2305	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR630930-18	MR631014-37	-
1963-S465	2438300.07	1963 Sep 27 1340	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT R=560	MR631007-20/Wire	-	-
1963-S466	2438300.36	1963 Sep 27 2040?	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR631125-28/Wire	MR631014-37	-
1963-S486	2438317.26	1963 Oct 14 1818	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	Ulrich/Wire	MR631021-13	-
1963-S495	2438319.14	1963 Oct 16 1515	Pershing 1	-	ATBM Target	0.000	44FA2	MS	-	-	OT	Ulrich/Wire	MR631021-13	-
1963-S500	2438321.08	1963 Oct 18 1400	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	Ulrich/Wire	-	-
1963-S503	2438323.50	1963 Oct 21	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR631028-12	-	-
1963-A150	2438325.50	1963 Oct 23	Pershing 1	-	-	0.000	44FA2	MF	U	-	OT	MR631104-11	WSMR-WWW	-
1963-S519	2438330.50	1963 Oct 28	Pershing 1	-	-	0.000	44FA2	MS	-	-	OT	MR631104-10	-	-
1963-S552	2438348.10	1963 Nov 14 1430	Pershing 1	-	-	0.000	41FA4	MS	-	-	OT	MR631125-19/UPI	MR631125-28	-
1963-S560	2438354.23	1963 Nov 20 1731	Pershing 1	-	-	0.000	41FA4	MS	-	-	OT	Wire	SP-4004	-
1963-S632	2438360.50	1963 Nov 27	Pershing 1	-	-	0.000	41FA4	MS	-	-	OT	OgdenStEx631129	Ulrich	-
1963-S586	2438368.50	1963 Dec 5	Pershing 1	-	-	0.000	41FA4	MS	-	-	OT	AP	-	-
1964-S115	2438450.12	1964 Feb 24 1457	Pershing 1	-	-	0.000	81FA1	MS	-	-	OT	MR640302-12	Wire	-
1964-S116	2438450.51	1964 Feb 25 0017	Pershing 1	-	-	0.000	81FA1	MS	-	-	OT	MR640302-12	Wire	-
1964-S65	2438451.25	1964 Feb 25 1800?	Pershing 1	-	-	0.000	81FA1	MF	U	-	OT	Ulrich/Wire	WSMR/Wire	-
1964-S64	2438454.28	1964 Feb 28 1850?	Pershing 1	-	AO-11?	0.000	81FA1	MS	-	-	OT	Ulrich/Wire	UPI	-
1964-S219	2438507.46	1964 Apr 21 2300	Pershing 1	-	AO-12	0.000	FKGR12	MS	-	-	OT	WSRM-archive	UPI	-
1964-S224	2438509.52	1964 Apr 24 0030	Pershing 1	-	AO-13	0.000	FKGR12	MS	-	-	OT	WSRM-archive	AP	-
1964-S363	2438593.50	1964 Jul 17	Pershing 1	-	AO-14	0.000	FKGR13	MS	-	-	OT	MR640727-25	Wire	-
1964-S376	2438598.50	1964 Jul 22	Pershing 1	-	AO-15	0.000	FKGR13	MS	-	-	OT	MR640727-25	UPI	-
1964-S632	2438718.12	1964 Nov 18 1455	Pershing 1	-	AO-16?	0.000	84FA3	MS	-	-	OT	WSMR-archive	MR641130-20	-
1964-S633	2438718.44	1964 Nov 18 2230	Pershing 1	-	AO-17?	0.000	84FA3	MS	-	-	OT	WSMR-archive	MR641130-20	-
1964-S635	2438719.12	1964 Nov 19 1500	Pershing 1	-	AO-18?	0.000	84FA3	MS	-	-	OT	WSMR-archive	MR641130-20	-
1964-S636	2438719.44	1964 Nov 19 2230	Pershing 1	-	AO-19?	0.000	84FA3	MF	U	-	OT	WSMR-archive	MR641130-20	-
1965-S53	2438789.45	1965 Jan 28 2246	Pershing 1	-	AO-20?	0.000	79FA2	MS	-	-	OT	WSMR-archive	MR650208-08	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S64	2438795.15	1965 Feb 3 1530	Pershing 1	-	AO-22?	0.000	79FA2	MS	-	-	OT	WSMR-archive	AP	-
1965-S63	2438795.15	1965 Feb 3 1535	Pershing 1	-	AO-21?	0.000	79FA2	MS	-	-	OT	Ulrich/Wire	-	-
1965-S91	2438803.54	1965 Feb 12 0059	Pershing 1	-	AO-23?	0.000	79FA2	MS	-	-	OT	WSMR-archive	MR650222-10	-
1965-S312	2438907.42	1965 May 26 2200	Pershing 1	-	AO-24?	0.000	44FA2	MS	-	-	OT	Ulrich	MR650707-12	LawtonConst650528
1965-S269	2438907.50	1965 May 27	Pershing 1	-	AO-25? (overshot)	0.000	41FA4	MS	-	-	OT	LawtonConst650528	-	-
1965-S334	2438913.50	1965 Jun 2	Pershing 1	-	AO-26	0.000	44FA2	MS	-	-	OT	WSMR	-	-
1965-S360	2438927.50	1965 Jun 16	Pershing 1	-	AO-27	0.000	81FA1	MS	-	-	OT	MR650628-10	-	-
1965-S524	2439039.50	1965 Oct 6	Pershing 1	-	AO-28	0.000	FKGR12	MS	-	-	OT	UPI	-	-
1965-A145	2439039.50	1965 Oct 6	Pershing 1	-	AO-29?	0.000	44FA2	MF	U	-	OT	WindSand651015	-	-
1965-S790	2439053.50	1965 Oct 20	Pershing 1	-	-	0.000	41FA4	MS	-	-	OT	SaltLakeTrib651022	Ulrich	-
1965-A223	2439055.12	1965 Oct 21 1500?	Pershing 1	-	-	0.000	41FA4	MF	U	-	OT	SaltLakeTrib651022	Ulrich	-
1965-S789	2439055.17	1965 Oct 21 1600?	Pershing 1	-	-	0.000	41FA4	MF	U	-	OT	SaltLakeTrib651022	Ulrich	-
1966-S84	2439156.50	1966 Jan 31	Pershing 1	-	AO-30	0.000	FKGR13	MS	-	-	OT	MR660207-11	-	-
1966-S111	2439171.20	1966 Feb 14 1652	Pershing 1	-	AO-31?	0.000	79FA2	MS	-	-	OT	Wire	MR660221-12	-
1966-S85	2439173.14	1966 Feb 16 1515	Pershing 1	-	AO-32	0.000	79FA2	MS	-	-	OT	Ulrich/Wire	-	-
1966-S328	2439298.50	1966 Jun 22	Pershing 1	-	AO-33?	0.000	79FA2	MS	-	-	OT	MR660704-11	LasCrucesSunNews	-
1966-S291	2439303.50	1966 Jun 27	Pershing 1	-	AO-34?	0.000	84FA3	MS	-	-	OT	WSMR	-	-
1966-S749	2439305.50	1966 Jun 29	Pershing 1	-	-	0.000	79FA2	MS	-	-	OT	AP	-	-
1966-S292	2439325.50	1966 Jul 19	Pershing 1	-	AO-35?	0.000	44FA2	MS	-	-	OT	LawtonConst660720	-	-
1966-S392	2439332.15	1966 Jul 25 1530?	Pershing 1	-	AO-37	0.000	US7A	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S393	2439332.17	1966 Jul 25 1600?	Pershing 1	-	AO-38	0.000	US7A	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S394	2439332.21	1966 Jul 25 1700?	Pershing 1	-	AO-39?	0.000	US7A	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S395	2439333.17	1966 Jul 26 1600?	Pershing 1	-	AO-40?	0.000	US7A	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S396	2439333.21	1966 Jul 26 1700?	Pershing 1	-	-	0.000	FKGR21	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S397	2439333.25	1966 Jul 26 1800?	Pershing 1	-	-	0.000	FKGR21	MS	-	-	OT	MR660801-10/Wire	-	-
1966-S553	2439419.50	1966 Oct 21	Pershing 1	-	AO-41	0.000	FKGR12	MS	-	-	OT	MR661031-13	-	-
1966-S554	2439419.50	1966 Oct 21	Pershing 1	-	AO-42?	0.000	US7A	MS	-	-	OT	MR661031-13	-	-
1966-S555	2439419.50	1966 Oct 21	Pershing 1	-	AO-43?	0.000	US7A	MS	-	-	OT	MR661031-13	-	-
1966-S513	2439424.50	1966 Oct 26	Pershing 1	-	AO-23	0.000	FKGR22	MS	-	-	OT	Wire	-	-
1966-S573	2439433.50	1966 Nov 4	Pershing 1	-	AO-44	0.000	FKGR22	MF	U	-	OT	AP	-	-
1967-S131	2439556.17	1967 Mar 6 1600?	Pershing 1	-	AO-45?	0.000	44FA2	MS	-	-	Test	WSMR/Wire	-	-
1967-S642	2439556.17	1967 Mar 6 1600?	Pershing 1	-	AO-46?	0.000	44FA2	MS	-	-	Test	WSMR/Wire	-	-
1967-S151	2439562.50	1967 Mar 13	Pershing 1	-	AO-47?	0.000	US7A	MS	-	-	OT	MR670327-28	-	-
1967-S152	2439562.50	1967 Mar 13	Pershing 1	-	AO-48?	0.000	US7A	MS	-	-	OT	MR670327-28	-	-
1967-S411	2439564.50	1967 Mar 15	Pershing 1	-	AO-49	0.000	FKGR13	MS	-	-	Test	WSMR	-	-
1967-S172	2439578.52	1967 Mar 29 0030	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670410-15	-	-
1967-S173	2439578.52	1967 Mar 29 0030	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670515-16/Wire	-	-
1967-S174	2439578.54	1967 Mar 29 0100	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670515-16/Wire	-	-
1967-S287	2439643.50	1967 Jun 2	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670619-15	-	-
1967-S288	2439643.50	1967 Jun 2	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670619-15	-	-
1967-S297	2439650.50	1967 Jun 9	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MR670619-15	-	-
1967-S313	2439663.50	1967 Jun 22	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	JCM	-	-
1967-S314	2439664.50	1967 Jun 23	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S401	2439732.34	1967 Aug 29 2010	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S402	2439732.34	1967 Aug 29 2015?	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S403	2439732.36	1967 Aug 29 2045?	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S404	2439732.36	1967 Aug 29 2045?	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S410	2439745.79	1967 Sep 12 0700	Pershing 1	-	AO-53	0.000	FKGR12	MS	-	-	Test	Wire	-	-
1967-S433	2439745.83	1967 Sep 12 0748	Pershing 1	-	AO-54 Hit Mexico	0.000	US7A	MS	-	-	OT	Wire	-	-
1967-S652	2439760.50	1967 Sep 27	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1967-S653	2439760.50	1967 Sep 27	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1967-S510	2439810.12	1967 Nov 15 1500	Pershing 1	-	AO-55?	0.000	US7A	MS	-	-	Test	Wire	-	-
1967-S511	2439810.15	1967 Nov 15 1530	Pershing 1	-	AO-56?	0.000	US7A	MS	-	-	Test	Wire	-	-
1967-S512	2439810.24	1967 Nov 15 1745	Pershing 1	-	AO-57?	0.000	US7A	MS	-	-	Test	Wire	-	-
1968-S166	2439920.50	1968 Mar 5	Pershing 1A	-	-	0.000	MICOM	MS	-	-	OT	Ulrich/Wire	ClovisNewsJ680306	-
1968-S158	2439923.50	1968 Mar 8	Pershing 1A	-	-	0.000	MICOM	MS	-	-	Test	ElPasoHeraldP680306	-	-
1968-S167	2439915.50	1968 Mar	Pershing 1A	-	AO-58?	0.000	MICOM/US7A	MS	-	-	OT	JCM	-	-
1968-S244	2439962.50	1968 Apr 16	Pershing 1	-	AO-60	0.000	FKGR21	MS	-	-	Test	WSMR	-	or GILB?
1968-S245	2439962.50	1968 Apr 16	Pershing 1	-	AO-61	0.000	FKGR13	MS	-	-	Test	WSMR	-	or GILB?
1968-S700	2439976.50	1968 Apr 30	Pershing 1	-	AO-62?	0.000	US7A	MS	-	-	OT	AlbuquerqueJ680501	-	-
1968-S292	2439976.50	1968 Apr 30	Pershing 1	-	AO-63?	0.000	US7A	MS	-	-	OT	AlbuquerqueJ680501	-	-
1968-S380	2440028.50	1968 Jun 21	Pershing 1	-	AO-64	0.000	FKGR12	MS	-	-	Test	MoabTIndep680627	-	-
1968-S381	2440028.50	1968 Jun 21	Pershing 1	-	AO-65	0.000	FKGR22	MS	-	-	Test	MoabTIndep680627	-	-
1968-S388	2440056.50	1968 Jul 19	Pershing 1	-	AO-66?	0.000	US7A	MS	-	-	Test	WSMR	-	-
1968-S389	2440056.50	1968 Jul 19	Pershing 1	-	AO-67?	0.000	US7A	MS	-	-	Test	WSMR	-	-
1968-S430	2440071.50	1968 Aug 3	Pershing 1	-	AO-68	0.000	FKGR12	MS	-	-	Test	Wire	-	-
1968-S661	2440071.50	1968 Aug 3	Pershing 1	-	AO-69	0.000	FKGR21	MS	-	-	Test	Wire	-	-
1968-S431	2440073.50	1968 Aug 5	Pershing 1A	-	P1A	0.000	44FA2	MS	-	-	Test	Wire	-	-
1968-S432	2440075.50	1968 Aug 7	Pershing 1A	-	P1A	0.000	44FA2	MS	-	-	Test	Wire	-	-
1968-S433	2440075.50	1968 Aug 7	Pershing 1A	-	P1A	0.000	44FA2	MS	-	-	Test	Wire	-	-
1968-S568	2440166.17	1968 Nov 5 1611	Pershing 1	-	AO-70?	0.000	81FA1	MS	-	-	Test	WSMRgr681108	-	-
1968-S569	2440166.25	1968 Nov 5 1800?	Pershing 1	-	AO-71?	0.000	44FA2	MS	-	-	Test	WSMR	-	-
1968-S581	2440173.50	1968 Nov 13	Pershing 1	-	AO-72	0.000	FKGR12	MS	-	-	OT	Wire	www.wsmr-history.org	-
1969-S243	2440314.19	1969 Apr 2 1630	Pershing 1	-	AO-73	0.000	FKGR21	MS	-	-	Test	LasCrucesSunNews	WSMR	-
1969-S244	2440314.23	1969 Apr 2 1730	Pershing 1	-	AO-74	0.000	FKGR22	MS	-	-	Test	LasCrucesSunNews	WSMR	-
1969-S268	2440327.22	1969 Apr 15 1710	Pershing 1	-	AO-75?	0.000	US7A	MS	-	-	Test	MissileRanger690418	-	-
1969-S269	2440328.36	1969 Apr 16 2045	Pershing 1	-	AO-76?	0.000	US7A	MS	-	-	Test	MissileRanger690418	-	-
1969-S305	2440341.25	1969 Apr 29 1755	Pershing 1	-	AO-77	0.000	FKGR12	MS	-	-	Test	MoabTIndep690501	-	-
1969-A70	2440341.29	1969 Apr 29 1900	Pershing 1	-	AO-78	0.000	FKGR13	MF	U	-	Test	MoabTIndep690501	-	-
1969-S310	2440355.15	1969 May 13 1530	Pershing 1	-	AO-79?	0.000	US7A	MS	-	-	Test	Wire	-	-
1969-S311	2440355.19	1969 May 13 1640	Pershing 1	-	AO-80?	0.000	US7A	MS	-	-	Test	Wire	-	-
1969-S482	2440470.33	1969 Sep 5 1955	Pershing 1	-	AO-81	0.000	FKGR12	MS	-	-	Test	MoabTIndep690911	WSMRgr690815	-
1969-S483	2440470.35	1969 Sep 5 2030	Pershing 1	-	AO-82	0.000	FKGR13	MS	-	-	Test	MoabTIndep690911	WSMRgr690815	-
1969-S475	2440480.50	1969 Sep 16	Pershing 1A	-	AO-83?	0.000	44FA2	MS	-	-	Test	Wire	WSMRgr690815	-
1969-S476	2440480.50	1969 Sep 16	Pershing 1A	-	AO-84?	0.000	44FA2	MS	-	-	Test	Wire	WSMRgr690815	-
1969-S477	2440495.35	1969 Sep 30 2017	Pershing 1A	-	AO-85?	0.000	44FA2	MS	-	-	Test	Wire	WSMRgr690815	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S478	2440495.50	1969 Sep 30 2356	Pershing 1A	-	AO-86?	0.000	44FA2	MS	-	-	Test	Wire	WSMRgr690815	-
1970-S301	2440693.33	1970 Apr 16 2000	Pershing 1	-	AO-87	0.000	FKGR12	MS	-	-	Test	Wire	SunAdvocate700430	-
1970-S302	2440693.36	1970 Apr 16 2037	Pershing 1	-	AO-88	0.000	FKGR12	MS	-	-	Test	Wire	SunAdvocate700430	-
1970-A58	2440704.50	1970 Apr 28	Pershing 1A	-	AO-89?	0.000	US7A	MF	U	-	Test	WSMRgr700501	Wire	-
1970-S378	2440740.55	1970 Jun 3 0110	Pershing 1	-	AO-90	0.000	FKGR13	MS	-	-	Test	Wire	-	-
1970-S379	2440742.33	1970 Jun 4 2000	Pershing 1	-	AO-91	0.000	FKGR13	MS	-	-	Test	Wire	-	-
1970-S380	2440742.50	1970 Jun 5 0000	Pershing 1	?	-	0.000	US7A	MS	-	-	Test	Wire	-	-
1970-S381	2440762.50	1970 Jun 25	Pershing 1	?	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	WSMR	-
1970-S276	2440762.50	1970 Jun 25	Pershing 1	?	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	WSMR	-
1970-S432	2440782.15	1970 Jul 14 1535	Pershing 1A	-	DASO	0.000	US7A	MS	-	-	OT	WSMRgr700717	-	-
1970-S433	2440782.17	1970 Jul 14 1600	Pershing 1A	-	DASO	0.000	US7A	MS	-	-	OT	WSMRgr700717	-	-
1970-S467	2440803.38	1970 Aug 4 2101	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	SaltLakeTrib700805	-	-
1970-S468	2440803.39	1970 Aug 4 2125	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	SaltLakeTrib700805	-	-
1970-S519	2440844.50	1970 Sep 15	Pershing 1	-	-	0.000	44FA2	MS	-	-	Test	SaltLakeTrib700916	-	-
1970-S524	2440847.33	1970 Sep 17 2000	Pershing 1	-	-	0.000	44FA2	MS	-	-	Test	SaltLakeTrib700918	-	-
1970-S540	2440859.30	1970 Sep 29 1915	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MoabTIndep701001	-	-
1970-S541	2440859.32	1970 Sep 29 1936	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MoabTIndep701001	-	-
1970-S542	2440859.38	1970 Sep 29 2110	Pershing 1	-	-	0.000	US7A	MS	-	-	OT	MoabTIndep701001	-	-
1970-S543	2440859.40	1970 Sep 29 2134	Pershing 1	-	OffR 117	0.000	US7A	MS	-	-	OT WS-117	MoabTIndep701001	-	-
1970-S566	2440873.63	1970 Oct 14 0305	Pershing 1	-	AO-95	0.000	FKGR21	MS	-	-	Test	WSMRgr701016	-	-
1970-A111	2440873.68	1970 Oct 14 0415	Pershing 1	-	AO-96	0.000	FKGR21	MF	U	-	Test	WSMRgr701016	-	-
1970-S594	2440895.65	1970 Nov 5 0335	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701106	-	-
1970-S595	2440895.67	1970 Nov 5 0405	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701106	-	-
1970-A117	2440895.73	1970 Nov 5 0525	Pershing 1A	-	-	0.000	US7A	MF	U	-	OT	WSMRgr701106	-	-
1970-S596	2440895.82	1970 Nov 5 0735	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701106	-	-
1970-S620	2440914.35	1970 Nov 23 2030	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701127	-	-
1970-S621	2440914.47	1970 Nov 23 2310	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701127	-	-
1970-S622	2440914.49	1970 Nov 23 2345	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr701127	-	-
1970-S623	2440914.51	1970 Nov 24 0020	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT OR-127/WS-139	WSMRgr701127	-	-
1971-S257	2441069.27	1971 Apr 27 1830	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr710430	-	-
1971-S258	2441069.29	1971 Apr 27 1900?	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr710430	-	-
1971-S259	2441069.33	1971 Apr 27 2000?	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr710430	-	-
1971-S260	2441069.35	1971 Apr 27 2030	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	WSMRgr710430	-	-
1971-S274	2441083.50	1971 May 12	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	MoabTIndep710520	-	-
1971-S275	2441083.50	1971 May 12	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	MoabTIndep710520	-	-
1971-S276	2441083.50	1971 May 12	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	MoabTIndep710520	-	-
1971-S277	2441083.50	1971 May 12	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	MoabTIndep710520	-	-
1971-S313	2441099.18	1971 May 27 1620	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	SaltLakeTrib710428	-	-
1971-S315	2441099.20	1971 May 27 1650	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	SaltLakeTrib710428	-	-
1971-S316	2441099.29	1971 May 27 1855	Pershing 1A	-	-	0.000	US7A	MU	-	-	OT	SaltLakeTrib710428	-	-
1971-S325	2441111.35	1971 Jun 8 2031	Pershing 1A	-	-	0.000	44FA2	MU	-	-	OT	WSMRgr710611	-	-
1971-A80	2441218.33	1971 Sep 23 1950	Pershing 1A	-	Imp.	0.000	9FA3	MF	U	-	OT	Wire	WSMRgr711001	-
1971-S416	2441225.33	1971 Sep 30 1950	Pershing 1A	-	Imp.	0.000	9FA3	MF	U	-	OT	LasCrucesSunNews	Wire	-
1971-S483	2441246.50	1971 Oct 22	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1971-S484	2441251.50	1971 Oct 27	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1971-S545	2441264.50	1971 Nov 9	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1971-S546	2441264.50	1971 Nov 9	Pershing 1A	-	-	0.000	9FA3	MS	-	-	OT WS-157?	Wire	-	-
1972-S172	2441426.17	1972 Apr 18 1600	Pershing 1A	-	Imp. / MICOM	0.000	9FA3	MS	-	-	OT/R&D	WSMRgr720421	-	-
1972-S173	2441426.28	1972 Apr 18 1840	Pershing 1A	-	Imp. / MICOM	0.000	US7A	MS	-	-	OT/R&D	WSMRgr720421	-	-
1972-S182	2441455.14	1972 May 17 1520	Pershing 1A	-	Imp. / MICOM	0.000	US7A	MS	-	-	OT/R&D	MissileRanger720519	-	-
1972-S183	2441455.17	1972 May 17 1600?	Pershing 1A	-	Imp. / MICOM	0.000	US7A	MS	-	-	OT/R&D	MissileRanger720519	-	-
1972-S184	2441455.19	1972 May 17 1630?	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	MissileRanger720519	-	-
1972-S185	2441455.21	1972 May 17 1705	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	MissileRanger720519	-	-
1972-S214	2441470.76	1972 Jun 2 0610	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S215	2441470.78	1972 Jun 2 0645	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S216	2441471.50	1972 Jun 3	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	OgdenStdExam	-	-
1972-S217	2441471.66	1972 Jun 3 0355	Pershing 1A	-	-	0.000	US7A	MF	U	-	OT	OgdenStdExam	-	-
1972-S218	2441476.22	1972 Jun 7 1715	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	MissileRanger720519	-	-
1972-S219	2441476.50	1972 Jun 8	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1972-S220	2441482.08	1972 Jun 13 1400	Pershing 1A	-	AO-108	0.000	FKG1	MS	-	-	OT	MissileRanger720616	-	-
1972-S221	2441482.15	1972 Jun 13 1530	Pershing 1A	-	AO-109	0.000	FKG1	MS	-	-	OT	MissileRanger720616	-	-
1972-S247	2441491.10	1972 Jun 22 1420	Pershing 1A	-	AO-110	0.000	FKG2	MS	-	-	OT	WSMRgr720623	-	-
1972-S248	2441491.12	1972 Jun 22 1500	Pershing 1A	-	AO-111	0.000	FKG2	MS	-	-	OT	WSMRgr720623	-	-
1972-S222	2441497.50	1972 Jun 29	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S223	2441497.50	1972 Jun 29	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S224	2441497.50	1972 Jun 29	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S447	2441497.50	1972 Jun 29	Pershing 1A	-	-	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S308	2441578.50	1972 Sep 18	Pershing 1A	-	AO-112	0.000	FKG2	MS	-	-	OT	SaltLakeTrib720927	-	-
1972-S309	2441578.50	1972 Sep 18	Pershing 1A	-	AO-113	0.000	FKG2	MS	-	-	OT	SaltLakeTrib720927	-	-
1972-S317	2441586.10	1972 Sep 25 1430	Pershing 1A	-	AO-114	0.000	FKG1	MS	-	-	OT	WSMRgr720929	-	-
1972-S318	2441586.15	1972 Sep 25 1530	Pershing 1A	-	AO-115	0.000	FKG1	MS	-	-	OT	WSMRgr720929	-	-
1972-S337	2441601.50	1972 Oct 11	Pershing 1A	-	AO-116?	0.000	US7A	MS	-	-	OT	Wire	WSMRgr721006	-
1972-S338	2441601.50	1972 Oct 11	Pershing 1A	-	AO-117?	0.000	US7A	MS	-	-	OT	Wire	WSMRgr721006	-
1972-S225	2441609.50	1972 Oct 19	Pershing 1A	-	AO-118?	0.000	US7A	MS	-	-	OT	Wire	-	-
1972-S326	2441609.50	1972 Oct 19	Pershing 1A	-	AO-119?	0.000	9FA3	MS	-	-	OT WS-185?	Wire	-	-
1973-S75	2441735.13	1973 Feb 21 1505	Pershing 1A	-	101 (FOT)	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S76	2441735.15	1973 Feb 21 1537	Pershing 1A	-	102	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S77	2441735.19	1973 Feb 21 1630	Pershing 1A	-	103	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S78	2441735.21	1973 Feb 21 1706	Pershing 1A	-	104	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S96	2441748.48	1973 Mar 6 2328	Pershing 1A	-	105	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1973-S97	2441748.49	1973 Mar 6 2348	Pershing 1A	-	106	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1973-A13	2441748.52	1973 Mar 7 0022	Pershing 1A	-	107	0.000	41FA1	MF	U	-	OT	CCMOPS	-	-
1973-S98	2441748.53	1973 Mar 7 0050	Pershing 1A	-	108	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1973-S107	2441761.17	1973 Mar 19 1602	Pershing 1A	-	111	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S108	2441761.18	1973 Mar 19 1616	Pershing 1A	-	112	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S109	2441761.22	1973 Mar 19 1720	Pershing 1A	-	109	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-S110	2441761.24	1973 Mar 19 1752	Pershing 1A	-	110	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1973-S189	2441853.09	1973 Jun 19 1405	Pershing 1A	-	AO-120?	0.000	9FA3	MS	-	-	OT	MissileRanger730622	-	-
1973-S190	2441853.29	1973 Jun 19 1900	Pershing 1A	-	AO-121?	0.000	US7A	MS	-	-	OT	MissileRanger730622	-	-
1973-S209	2441860.50	1973 Jun 27	Pershing 1A	-	AO-122?	0.000	US7A	MS	-	-	OT	Wire	-	-
1973-S210	2441860.50	1973 Jun 27	Pershing 1A	-	AO-123?	0.000	US7A	MF	U	-	OT	Wire	-	-
1973-S235	2441881.12	1973 Jul 17 1453	Pershing 1A	-	AO-124	0.000	FKG1	MU	-	-	OT	Wire	WSMRgr730720	-
1973-S236	2441881.18	1973 Jul 17 1619	Pershing 1A	-	AO-125	0.000	FKG1	MU	-	-	OT	Wire	WSMRgr730720	-
1973-S215	2441889.50	1973 Jul 26	Pershing 1A	-	AO-126	0.000	FKG2	MF	U	-	OT	Wire	-	-
1973-S216	2441889.50	1973 Jul 26	Pershing 1A	-	AO-127	0.000	FKG2	MS	-	-	OT	Wire	-	-
1973-S315	2441950.90	1973 Sep 25 0930	Pershing 1A	-	AO-128?	0.000	9FA3	MU	-	-	OT	WSMRgr730928	-	-
1973-S316	2441950.92	1973 Sep 25 1005	Pershing 1A	-	AO-129?	0.000	9FA3	MU	-	-	OT	WSMRgr730928	-	-
1973-S331	2441965.89	1973 Oct 10 0928	Pershing 1A	-	AO-130	0.000	FKG2	MU	-	-	OT	MissileRanger731012	-	-
1973-S332	2441965.99	1973 Oct 10 1141	Pershing 1A	-	AO-131	0.000	FKG2	MU	-	-	OT	MissileRanger731012	-	-
1973-S333	2441979.93	1973 Oct 24 1015	Pershing 1A	-	AO-132	0.000	FKG1	MU	-	-	OT	Wire(MST)	-	-
1973-S334	2441979.96	1973 Oct 24 1105	Pershing 1A	-	AO-133	0.000	FKG1	MU	-	-	OT	Wire(MST)	-	-
1973-S372	2441999.93	1973 Nov 13 1015	Pershing 1A	-	AO-134?	0.000	US7A	MU	-	-	OT	Ulrich/Wire	WSMR	-
1973-S373	2441999.95	1973 Nov 13 1055	Pershing 1A	-	AO-135?	0.000	US7A	MU	-	-	OT	Ulrich/Wire	WSMR	-
1973-S374	2442013.50	1973 Nov 27	Pershing 1A	-	AO-136?	0.000	US7A	MU	-	-	OT	Wire	-	-
1973-S375	2442013.50	1973 Nov 27	Pershing 1A	-	AO-137?	0.000	US7A	MU	-	-	OT	Wire	-	-
1973-S425	2442022.93	1973 Dec 6 1015	Pershing 1A	-	AO-138?	0.000	US7A	MS	-	-	OT	lib.utah.edu	MMariettaNews040125	-
1973-S426	2442022.95	1973 Dec 6 1045	Pershing 1A	-	AO-139 *	0.000	US7A	MS	-	-	OT WS-205?	lib.utah.edu	www.wsmr-history.org	-
1974-S189	2442175.29	1974 May 7 1900	Pershing 1A	-	103	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S190	2442175.30	1974 May 7 1915	Pershing 1A	-	104	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S191	2442175.34	1974 May 7 2005	Pershing 1A	-	102	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S192	2442175.35	1974 May 7 2021	Pershing 1A	-	101	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S200	2442189.04	1974 May 21 1304	Pershing 1A	-	109	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1974-S201	2442189.05	1974 May 21 1318	Pershing 1A	-	110	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1974-S202	2442189.06	1974 May 21 1328	Pershing 1A	-	111	0.000	84FA3	MF	U	-	OT	CCMOPS	-	-
1974-S203	2442189.11	1974 May 21 1443	Pershing 1A	-	112	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1974-A25	2442199.29	1974 May 31 1900	Pershing 1A	-	105	0.000	81FA1	MF	S2	-	OT	CCMOPS	-	-
1974-S209	2442199.30	1974 May 31 1915	Pershing 1A	-	106	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S210	2442199.34	1974 May 31 2005	Pershing 1A	-	107	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S211	2442199.35	1974 May 31 2021	Pershing 1A	-	108	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1974-S331	2442338.09	1974 Oct 17 1410	Pershing 1A	-	AO-140?	0.000	9FA3	MU	-	-	OT	Wire(MDT)	-	-
1974-S332	2442338.13	1974 Oct 17 1508	Pershing 1A	-	AO-141?	0.000	9FA3	MU	-	-	OT	Wire(MDT)	-	-
1974-S333	2442352.13	1974 Oct 31 1502	Pershing 1A	-	AO-142?	0.000	US7A	MU	-	-	OT	Wire(MST)	-	-
1974-S334	2442352.18	1974 Oct 31 1625	Pershing 1A	-	AO-143?	0.000	US7A	MU	-	-	OT	Wire(MST)	-	-
1974-S368	2442377.08	1974 Nov 25 1400	Pershing 1A	-	AO-144	0.000	FKG2	MU	-	-	OT	MissileRanger741129	Wire	-
1974-S369	2442377.13	1974 Nov 25 1501	Pershing 1A	-	AO-145	0.000	FKG2	MU	-	-	OT	MissileRanger741129	Wire	-
1974-S396	2442387.50	1974 Dec 6	Pershing 1A	-	AO-146	0.000	FKG2	MU	-	-	OT	WSMR	-	-
1974-S397	2442387.50	1974 Dec 6	Pershing 1A	-	AO-147	0.000	FKG2	MU	-	-	OT WS-213?	WSMR	-	-
1975-S152	2442545.89	1975 May 13 0925	Pershing 1A	-	AO-148	0.000	FKG1	MU	-	-	OT	ClovisNewsJ	WSMR	-
1975-S153	2442545.91	1975 May 13 0952	Pershing 1A	-	AO-149	0.000	FKG1	MU	-	-	OT	ClovisNewsJ	WSMR	-
1975-S163	2442560.90	1975 May 28 0938	Pershing 1A	-	AO-150	0.000	FKG1	MU	-	-	OT	Wire	WSMR	-
1975-S164	2442560.92	1975 May 28 1004	Pershing 1A	-	AO-151	0.000	FKG1	MU	-	-	OT	Wire	WSMR	-
1975-S198	2442574.89	1975 Jun 11 0922	Pershing 1A	-	AO-152?	0.000	US7A	MS	-	-	OT	Wire	SaltLakeTrib750612	-
1975-S199	2442574.92	1975 Jun 11 1000	Pershing 1A	-	AO-153?	0.000	US7A	MS	-	-	OT	Wire	SaltLakeTrib750612	-
1975-S213	2442588.50	1975 Jun 25	Pershing 1A	-	AO-154?	0.000	US7A	MU	-	-	OT	Wire	SaltLakeTrib750612	-
1975-S214	2442588.50	1975 Jun 25	Pershing 1A	-	AO-155?	0.000	US7A	MU	-	-	OT	Wire	-	-
1975-S227	2442617.13	1975 Jul 23 1504	Pershing 1A	-	FOT-37	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1975-S228	2442617.19	1975 Jul 23 1638	Pershing 1A	-	FOT-38	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1975-S229	2442617.20	1975 Jul 23 1653	Pershing 1A	-	FOT-39	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1975-S231	2442618.28	1975 Jul 24 1849	Pershing 1A	-	FOT-40	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1975-S234	2442630.17	1975 Aug 5 1604	Pershing 1A	-	FOT-41	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1975-A45	2442630.18	1975 Aug 5 1620	Pershing 1A	-	FOT-42	0.000	81FA1	MF	U	-	OT	CCMOPS	-	-
1975-S235	2442630.26	1975 Aug 5 1816	Pershing 1A	-	FOT-43	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1975-S236	2442630.27	1975 Aug 5 1832	Pershing 1A	-	FOT-44	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1975-A47	2442650.16	1975 Aug 25 1554	Pershing 1A	-	FOT-45	0.000	41FA1	MF	U	-	OT	CCMOPS	-	-
1975-S253	2442650.23	1975 Aug 25 1732	Pershing 1A	-	FOT-46	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1975-S256	2442651.27	1975 Aug 26 1832	Pershing 1A	-	FOT-47	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1975-A48	2442651.28	1975 Aug 26 1849	Pershing 1A	-	FOT-48	0.000	41FA1	MF	U	-	OT	CCMOPS	-	-
1975-S287	2442692.50	1975 Oct 7	Pershing 1A	-	AO-156	0.000	FKG2	MS	-	-	OT	Wire	-	-
1975-S288	2442692.50	1975 Oct 7	Pershing 1A	-	AO-157	0.000	FKG2	MS	-	-	OT	Wire	-	-
1975-S289	2442706.90	1975 Oct 21 0935	Pershing 1A	-	AO-158	0.000	FKG1	MS	-	-	OT	Wire	-	-
1975-S358	2442706.92	1975 Oct 21 1010	Pershing 1A	-	AO-159 *	0.000	FKG1	MS	-	-	OT WS-225?	Wire	-	-
1976-S06	2442792.92	1976 Jan 15 1000	Pershing 1A	-	AO-160	0.000	9FA3	MU	-	-	OT	Wire	-	-
1976-S07	2442792.96	1976 Jan 15 1100?	Pershing 1A	-	AO-161	0.000	9FA3	MU	-	-	OT	Wire	-	-
1976-S355	2442793.00	1976 Jan 15 1200?	Pershing 1A	-	AO-162	0.000	US7A	MU	-	-	OT	Wire	-	-
1976-S356	2442793.08	1976 Jan 15 1355	Pershing 1A	-	AO-163	0.000	US7A	MU	-	-	OT	Wire	-	-
1976-S170	2442903.08	1976 May 4 1402	Pershing 1A	-	AO-164	0.000	FKG2	MU	-	-	OT	MissileRanger760507	-	-
1976-S171	2442903.11	1976 May 4 1440	Pershing 1A	-	AO-165	0.000	FKG2	MU	-	-	OT	MissileRanger760507	-	-
1976-S172	2442916.88	1976 May 18 0910	Pershing 1A	-	AO-166	0.000	FKG	MU	-	-	OT	Wire	-	-
1976-S173	2442916.90	1976 May 18 0935	Pershing 1A	-	AO-167	0.000	FKG	MU	-	-	OT	Wire	-	-
1976-S190	2442932.14	1976 Jun 2 1519	Pershing 1A	-	AO-168	0.000	US7A	MU	-	-	OT	Wire	-	-
1976-S191	2442932.16	1976 Jun 2 1545	Pershing 1A	-	AO-169	0.000	US7A	MU	-	-	OT	Wire	-	Jun12?
1976-S192	2442959.05	1976 Jun 29 1308	Pershing 1A	-	AO-170	0.000	US7A	MS	-	-	OT	Wire	-	-
1976-S193	2442959.12	1976 Jun 29 1456	Pershing 1A	-	AO-171	0.000	US7A	MS	-	-	OT WS-237+6+CC	Wire	-	-
1976-S308	2443078.25	1976 Oct 26 1806	Pershing 1A	-	FOT-49	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1976-S309	2443078.30	1976 Oct 26 1912	Pershing 1A	-	FOT-50	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1976-S310	2443078.35	1976 Oct 26 2021	Pershing 1A	-	FOT-51	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1976-S311	2443078.36	1976 Oct 26 2039	Pershing 1A	-	FOT-52	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1977-S85	2443192.26	1977 Feb 17 1812	Pershing 1A	-	FOT-53?	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1977-S97	2443205.27	1977 Mar 2 1828	Pershing 1A	-	FOT-54?	0.000	41FA1	MF	U	-	OT	CCMOPS	-	-
1977-A13	2443205.29	1977 Mar 2 1853	Pershing 1A	-	FOT-55?	0.000	41FA1	MF	U	-	OT	CCMOPS	-	-
1977-S98	2443205.35	1977 Mar 2 2031	Pershing 1A	-	FOT-56?	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1977-A14	2443205.40	1977 Mar 2 2142	Pershing 1A	-	FOT-57?	0.000	41FA1	MS	-	-	OT CC-102	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S155	2443267.16	1977 May 3 1549	Pershing 1A	-	AO-172	0.000	FKG1	MS	-	-	OT WS-244 - off by 1	Wire/Ulrich	-	-
1977-S156	2443267.19	1977 May 3 1630	Pershing 1A	-	AO-173	0.000	FKG1	MS	-	-	OT	Wire/Ulrich	-	-
1977-S157	2443281.13	1977 May 17 1513	Pershing 1A	-	AO-174	0.000	FKG	MS	-	-	OT	MissileRanger770520	-	-
1977-S158	2443281.20	1977 May 17 1653	Pershing 1A	-	AO-175	0.000	FKG	MS	-	-	OT WS-247	MissileRanger770520	-	-
1977-S159	2443296.14	1977 Jun 1 1519	Pershing 1A	-	AO-176?	0.000	US7A	MS	-	-	OT	MissileRanger770603	-	-
1977-S160	2443296.16	1977 Jun 1 1545	Pershing 1A	-	AO-177?	0.000	US7A	MS	-	-	OT	MissileRanger770603	-	-
1977-S161	2443309.09	1977 Jun 14 1407	Pershing 1A	-	AO-178?	0.000	US7A	MS	-	-	OT WS-250	WSMR/Wire	-	-
1977-S162	2443309.11	1977 Jun 14 1442	Pershing 1A	-	AO-179?	0.000	US7A	MF	U	-	OT	WSMR/Wire(MDT)	-	-
1977-S286	2443466.13	1977 Nov 18 1504	Pershing 1A	-	AO-180	0.000	9FA3?	MU	-	-	OT	Wire	-	-
1977-S270	2443486.13	1977 Dec 8 1505	Pershing 1A	-	AO-181?	0.000	9FA3?	MU	-	-	OT WS-253 (OR)	FarmingtonDailyT	Wire	-
1978-S376	2443560.50	1978 Feb 21	Pershing 1A	-	AO-182	0.000	9FA3?	MF	U	-	OT	FI810808	WSMR	-
1978-S274	2443598.09	1978 Mar 30 1404	Pershing 1A	-	AO-183	0.000	9FA3?	MU	-	-	OT	Ulrich/Wire	FI810808	-
1978-S140	2443647.04	1978 May 18 1300?	Pershing 1A	-	AO-184	0.000	9FA3	MS	-	-	OT	Ulrich/Wire	FI810808	-
1978-S180	2443703.11	1978 Jul 13 1437	Pershing 1A	-	FOT-111	0.000	81FA1	MS	-	-	OT R=740	CCMOPS	-	-
1978-S181	2443703.21	1978 Jul 13 1657	Pershing 1A	-	FOT-112	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1978-S182	2443703.26	1978 Jul 13 1809	Pershing 1A	-	FOT-113	0.000	81FA1	MS	-	-	OT	CCMOPS	-	-
1978-S186	2443715.10	1978 Jul 25 1430	Pershing 1A	-	FOT-115	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1978-S187	2443715.12	1978 Jul 25 1448	Pershing 1A	-	FOT-114	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1978-S188	2443715.13	1978 Jul 25 1506	Pershing 1A	-	FOT-116	0.000	84FA3	MS	-	-	OT	CCMOPS	-	-
1978-S201	2443746.05	1978 Aug 25 1306	Pershing 1A	-	FOT-117	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1978-S202	2443746.06	1978 Aug 25 1323	Pershing 1A	-	FOT-118	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1978-S203	2443746.08	1978 Aug 25 1353	Pershing 1A	-	FOT-119	0.000	41FA1	MS	-	-	OT	CCMOPS	-	-
1978-S338	2443801.09	1978 Oct 19 1405	Pershing 1A	-	AO-186?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1978-S339	2443801.11	1978 Oct 19 1435	Pershing 1A	-	AO-187?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1978-S340	2443819.50	1978 Nov 7	Pershing 1A	-	AO-188?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1978-S341	2443819.50	1978 Nov 7	Pershing 1A	-	AO-189?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1978-S342	2443833.13	1978 Nov 20 1505	Pershing 1A	-	AO-190?	0.000	FKG	MS	-	-	OT	Ulrich/Wire	-	-
1978-S343	2443833.15	1978 Nov 20 1540	Pershing 1A	-	AO-191?	0.000	FKG	MS	-	-	OT	Ulrich/Wire	-	-
1978-S276	2443847.50	1978 Dec 5	Pershing 1A	-	AO-192?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1978-S277	2443847.50	1978 Dec 5	Pershing 1A	-	AO-193?	0.000	9FA3?	MS	-	-	OT	Ulrich/Wire	-	-
1979-S68	2443927.11	1979 Feb 22 1443	Pershing 1A	-	FOT-121	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S69	2443927.12	1979 Feb 22 1500	Pershing 1A	-	FOT-122	0.000	US7A	MS	-	-	OT Wrong azimuth	CCMOPS	-	-
1979-S70	2443927.14	1979 Feb 22 1519	Pershing 1A	-	FOT-120	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S132	2443989.13	1979 Apr 25 1503	Pershing 1A	-	FOT-125	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S133	2443989.14	1979 Apr 25 1517	Pershing 1A	-	FOT-124	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S134	2443989.15	1979 Apr 25 1540	Pershing 1A	-	FOT-123	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S135	2444003.21	1979 May 9 1700	Pershing 1A	-	FOT-128	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S136	2444003.27	1979 May 9 1829	Pershing 1A	-	FOT-126	0.000	US7A	MS	-	-	OT	CCMOPS	-	Stage 2 fail
1979-S137	2444003.28	1979 May 9 1850	Pershing 1A	-	FOT-127	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1979-S264	2444191.13	1979 Nov 13 1506	Pershing 1A	-	AO-196?	0.000	9FA3?	MU	-	-	OT	MissileRanger791116	-	-
1979-S265	2444212.13	1979 Dec 4 1504	Pershing 1A	-	AO-194	0.000	US7A	MS	-	-	OT	MissileRanger791207	-	-
1979-S292	2444212.15	1979 Dec 4 1536	Pershing 1A	-	AO-195	0.000	US7A	MS	-	-	OT	MissileRanger791207	-	-
1980-S40	2444282.16	1980 Feb 12 1551	Pershing 1A	-	FOT-131	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S41	2444282.19	1980 Feb 12 1627	Pershing 1A	-	FOT-129	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S91	2444353.13	1980 Apr 23 1504	Pershing 1A	-	FOT-132	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S92	2444353.14	1980 Apr 23 1522	Pershing 1A	-	FOT-133	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S93	2444353.15	1980 Apr 23 1539	Pershing 1A	-	FOT-134	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S94	2444353.17	1980 Apr 23 1605	Pershing 1A	-	FOT-135	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S104	2444367.11	1980 May 7 1440	Pershing 1A	-	FOT-130?	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S105	2444367.12	1980 May 7 1459	Pershing 1A	-	FOT-136	0.000	US7A	MF	U	-	OT	CCMOPS	-	-
1980-S106	2444367.17	1980 May 7 1558	Pershing 1A	-	FOT-137	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S108	2444375.12	1980 May 15 1451	Pershing 1A	-	FOT-138 AOR	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1980-S185	2444520.17	1980 Oct 7 1610	Pershing 1A	-	AO-197	0.000	FKG	MU	-	-	OT	Ulrich/FDC	-	-
1980-S186	2444520.20	1980 Oct 7 1654	Pershing 1A	-	AO-198	0.000	FKG	MU	-	-	OT	Ulrich/FDC	-	-
1980-S187	2444528.08	1980 Oct 15 1402	Pershing 1A	-	AO-199	0.000	FKG	MU	-	-	OT	Ulrich/Wire	-	-
1980-S188	2444528.11	1980 Oct 15 1434	Pershing 1A	-	AO-200	0.000	FKG2	MU	-	-	OT	Ulrich/Wire	-	-
1980-S250	2444540.50	1980 Oct 28	Pershing 1A	-	AO-201	0.000	US7A	MU	-	-	OT	Ulrich/Wire	-	-
1980-S251	2444540.50	1980 Oct 28	Pershing 1A	-	AO-202	0.000	US7A	MU	-	-	OT	Ulrich/Wire	-	-
1980-S252	2444561.50	1980 Nov 18	Pershing 1A	-	AO-203	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1980-S253	2444561.50	1980 Nov 18	Pershing 1A	-	AO-204	0.000	US7A	MS	-	-	OT	Ulrich/Wire	-	-
1981-S59	2444640.12	1981 Feb 4 1500	Pershing 1A	-	FOT-141	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S60	2444640.15	1981 Feb 4 1533	Pershing 1A	-	FOT-139	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S61	2444640.16	1981 Feb 4 1553	Pershing 1A	-	FOT-140	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S68	2444653.22	1981 Feb 17 1715	Pershing 1A	-	FOT-143	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S69	2444653.24	1981 Feb 17 1751	Pershing 1A	-	FOT-142	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S70	2444653.30	1981 Feb 17 1917	Pershing 1A	-	FOT-144	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S97	2444702.08	1981 Apr 7 1400	Pershing 1A	-	FOT-146	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S98	2444702.10	1981 Apr 7 1419	Pershing 1A	-	FOT-147	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S99	2444702.11	1981 Apr 7 1440	Pershing 1A	-	FOT-148	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1981-S209	2444870.18	1981 Sep 22 1615	Pershing 1A	-	AO-205	0.000	FKG	MS	-	-	OT	Ulrich/Wire	-	Sep21?
1981-S210	2444870.20	1981 Sep 22 1648	Pershing 1A	-	AO-206	0.000	FKG	MS	-	-	OT	Ulrich/Wire	-	Sep21?
1981-S211	2444876.50	1981 Sep 29	Pershing 1A	-	AO-207	0.000	FKG	MU	-	-	OT	Ulrich/Wire	-	-
1981-S212	2444876.50	1981 Sep 29	Pershing 1A	-	AO-208	0.000	FKG	MU	-	-	OT	Ulrich/Wire	-	-
1981-S213	2444891.17	1981 Oct 13 1600	Pershing 1A	-	AO-209?	0.000	US7A?	MS	-	-	OT	Ulrich/Wire	-	-
1981-S214	2444891.19	1981 Oct 13 1630	Pershing 1A	-	AO-210?	0.000	US7A?	MS	-	-	OT	Ulrich/Wire	-	-
1981-S215	2444898.50	1981 Oct 21	Pershing 1A	-	AO-211?	0.000	US7A?	MU	-	-	OT	Ulrich/Wire	-	-
1981-S164	2444898.50	1981 Oct 21	Pershing 1A	-	AO-212 Pos 2-1	0.000	US7A?	MS	-	-	Test	www.wsmr-history.org	-	-
1982-S38	2444990.12	1982 Jan 20 1459	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S39	2444990.14	1982 Jan 20 1519	Pershing 1A	-	-	0.000	US7A?	MF	U	-	OT	CCMOPS	-	-
1982-S40	2444990.30	1982 Jan 20 1906	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S59	2445025.09	1982 Feb 24 1404	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S60	2445025.12	1982 Feb 24 1455	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S61	2445025.13	1982 Feb 24 1514	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S75	2445039.13	1982 Mar 10 1501	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S76	2445039.14	1982 Mar 10 1517	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1982-S77	2445039.18	1982 Mar 10 1626	Pershing 1A	-	-	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-S141	2445173.12	1982 Jul 22 1449	Pershing 2	-	ED-1	0.000	US7A?	MF	S1	-	Test	CCMOPS	Wire	-
1982-S252	2445206.19	1982 Aug 24 1634	Pershing 1A	-	AO-213	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1982-S253	2445206.21	1982 Aug 24 1700	Pershing 1A	-	AO-214	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1982-S254	2445214.17	1982 Sep 1 1600	Pershing 1A	-	AO-215	0.000	FKG	MU	-	-	OT	Ulrich	FRGPER	-
1982-S255	2445214.20	1982 Sep 1 1646	Pershing 1A	-	AO-216	0.000	FKG	MU	-	-	OT	Ulrich	FRGPER	-
1982-S191	2445293.27	1982 Nov 19 1830	Pershing 2	-	ED-3?	0.000	US7A?	MS	-	-	Test	NYT821120	-	-
1983-S49	2445356.12	1983 Jan 21 1448	Pershing 2	-	ED-10	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S58	2445375.13	1983 Feb 9 1506	Pershing 2	-	ED-2	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S63	2445392.20	1983 Feb 26 1655	Pershing 2	1	ED-5	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	wsmr-history.org	-
1983-S75	2445407.19	1983 Mar 13 1635	Pershing 2	1	ED-4	0.000	US7A?	MS	-	-	Test	Wire/Ulrich	-	-
1983-S83	2445422.15	1983 Mar 28 1529	Pershing 2	-	ED-9	0.000	US7A?	MS	-	-	Test	CCMOPS	Wire	-
1983-S88	2445435.33	1983 Apr 10 1955	Pershing 2	-	ED-8	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S91	2445449.13	1983 Apr 24 1513	Pershing 2	1	ED-6?	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	-	-
1983-S97	2445461.26	1983 May 6 1812	Pershing 2	1	ED-7	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	-	-
1983-S103	2445482.12	1983 May 27 1448	Pershing 2	-	ED-11	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S109	2445488.12	1983 Jun 2 1446	Pershing 2	-	ED-14	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S117	2445505.13	1983 Jun 19 1512	Pershing 2	1	ED-13	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	-	-
1983-S119	2445510.15	1983 Jun 24 1531	Pershing 2	1	ED	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	-	-
1983-S127	2445532.13	1983 Jul 16 1513	Pershing 2	1	ED	0.000	US7A?	MS	-	-	Test	Ulrich/Wire	-	-
1983-S131	2445543.09	1983 Jul 27 1415	Pershing 2	-	ED-17	0.000	US7A?	MF	S2	-	Test	CCMOPS	-	-
1983-S162	2445585.21	1983 Sep 7 1704	Pershing 2	-	ED-18	0.000	US7A?	MS	-	-	Test	CCMOPS	-	-
1983-S165	2445596.12	1983 Sep 18 1500	Pershing 2	1	ED-15/20	0.000	9FA3	MS	-	-	Test	Ulrich/Wire	-	-
1983-S170	2445606.00	1983 Sep 28 1205	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S171	2445606.06	1983 Sep 28 1321	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S172	2445606.11	1983 Sep 28 1434	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S173	2445606.12	1983 Sep 28 1455	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S174	2445606.18	1983 Sep 28 1617	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S190	2445621.18	1983 Oct 13 1625	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S191	2445621.20	1983 Oct 13 1650	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S192	2445621.22	1983 Oct 13 1713	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S193	2445621.24	1983 Oct 13 1743	Pershing 1A	-	-	0.000	US7A?	MU	-	-	OT	CCMOPS	-	-
1983-S258	2445647.22	1983 Nov 8 1721	Pershing 1A	-	AO-217	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1983-S259	2445647.24	1983 Nov 8 1745	Pershing 1A	-	AO-218	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1983-S260	2445654.50	1983 Nov 16	Pershing 1A	-	AO-219	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1983-S261	2445657.20	1983 Nov 18 1651	Pershing 1A	-	AO-220	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1984-S90	2445837.10	1984 May 16 1431	Pershing 2	-	ED-21	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1984-S106	2445920.00	1984 Aug 7 1200	Pershing 2	-	ED-22	0.000	US7A?	MS	-	-	OT	CCMOPS	-	-
1984-S118	2445964.10	1984 Sep 20 1430	Pershing 2	-	AO-1?	0.000	9FA3?	MS	-	-	OT	CCMOPS	-	-
1984-S120	2445977.10	1984 Oct 3 1422	Pershing 2	-	AO-2?	0.000	9FA3?	MS	-	-	OT	CCMOPS	-	-
1984-S205	2446018.15	1984 Nov 13 1536	Pershing 1A	-	AO-225	0.000	FKG	MU	-	-	OT	AP/Ulrich	FRGPER	-
1984-S206	2446018.17	1984 Nov 13 1603	Pershing 1A	-	AO-226	0.000	FKG	MU	-	-	OT	AP/Ulrich	FRGPER	-
1984-S207	2446018.26	1984 Nov 13 1810	Pershing 1A	-	AO-227	0.000	FKG	MU	-	-	OT	AP/Ulrich	FRGPER	-
1984-S208	2446018.27	1984 Nov 13 1830	Pershing 1A	-	AO-228	0.000	FKG	MU	-	-	OT	AP/Ulrich	FRGPER	-
1985-S143	2446416.04	1985 Dec 16 1303	Pershing 2	-	SSO-1 Sys. Shakedn.	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1985-S145	2446417.17	1985 Dec 17 1602	Pershing 2	-	SSO-2	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1985-S146	2446417.40	1985 Dec 17 2137	Pershing 2	-	SSO-3	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S131	2446475.50	1986 Feb 14	Pershing 2	1	-	0.000	US7A	MS	-	-	OT	OrlandoSen860625	Ulrich/Wire	-
1986-S132	2446475.50	1986 Feb 14	Pershing 2	1	-	0.000	US7A	MS	-	-	OT	OrlandoSen860625	Ulrich/Wire	-
1986-S133	2446475.50	1986 Feb 14	Pershing 2	1	-	0.000	US7A	MS	-	-	OT	OrlandoSen860625	Ulrich/Wire	-
1986-S57	2446606.08	1986 Jun 24 1356:05	Pershing 2	-	DASO-1	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S58	2446606.14	1986 Jun 24 1523	Pershing 2	-	DASO-2	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S59	2446606.19	1986 Jun 24 1633	Pershing 2	-	DASO-3	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S60	2446608.05	1986 Jun 26 1305	Pershing 2	-	DASO-4	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S61	2446608.20	1986 Jun 26 1647	Pershing 2	-	DASO-5	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1986-S127	2446744.50	1986 Nov 10	Pershing 1A	-	AO-229	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1986-S128	2446745.54	1986 Nov 11 0100?	Pershing 1A	-	AO-230	0.000	FKG	MU	-	-	OT	Ulrich/Wire	FRGPER	-
1986-S129	2446751.50	1986 Nov 17	Pershing 1A	-	AO-231	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1986-S130	2446751.50	1986 Nov 17	Pershing 1A	-	AO-232	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1987-S196	2446825.50	1987 Jan 30	Pershing 2	1	OT-33	0.000	US7A	MS	-	-	OT	OrlandoSen870325	Ulrich/Wire	-
1987-S197	2446825.50	1987 Jan 30	Pershing 2	1	OT-34	0.000	US7A	MS	-	-	OT	OrlandoSen870325	Ulrich/Wire	-
1987-S198	2446825.50	1987 Jan 30	Pershing 2	1	OT-35	0.000	US7A	MS	-	-	OT	OrlandoSen870325	Ulrich/Wire	-
1987-S199	2446825.50	1987 Jan 30	Pershing 2	1	OT-37	0.000	US7A	MS	-	-	OT	OrlandoSen870325	Ulrich/Wire	-
1987-S200	2446825.50	1987 Jan 30	Pershing 2	1	OT-32	0.000	US7A	MS	-	-	OT	OrlandoSen870325	Ulrich/Wire	-
1987-S67	2446879.06	1987 Mar 24 1333:06	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S68	2446879.08	1987 Mar 24 1352:07	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S69	2446879.09	1987 Mar 24 1413:07	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S70	2446879.15	1987 Mar 24 1534:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S71	2446879.16	1987 Mar 24 1554:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S72	2446879.18	1987 Mar 24 1617:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S86	2446936.58	1987 May 21 0200:07	Pershing 2	-	- P2-45	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S87	2446936.60	1987 May 21 0219:02	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S88	2446936.61	1987 May 21 0240:07	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S89	2446936.67	1987 May 21 0400:08	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S90	2446936.69	1987 May 21 0433:08	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S91	2446936.70	1987 May 21 0451:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S113	2447004.03	1987 Jul 27 1238:07	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S114	2447004.04	1987 Jul 27 1257:06	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S115	2447004.14	1987 Jul 27 1520:04	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S116	2447004.15	1987 Jul 27 1537:05	Pershing 2	-	- P2-54	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1987-S192	2447109.50	1987 Nov 10	Pershing 1A	-	AO-233 ASP	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1988-S163	2447109.50	1987 Nov 10	Pershing 1A	-	AO-240?	0.000	US7A?	MU	-	-	OT	FRGPER	-	-
1987-S193	2447110.53	1987 Nov 11 0045?	Pershing 1A	-	AO-234 ASP	0.000	FKG	MU	-	-	OT	RoswellDailyR871111	FRGPER	-
1987-S194	2447124.50	1987 Nov 25	Pershing 1A	-	AO-235 ASP	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1987-S195	2447125.50	1987 Nov 26	Pershing 1A	-	AO-236 ASP	0.000	FKG	MU	-	-	OT	FRGPER	-	-
1987-S273	2447130.50	1987 Dec 1?	Pershing 2	1	AO-237	0.000	US7A?	MU	-	-	OT	Stats	-	-
1987-S274	2447130.50	1987 Dec 1?	Pershing 2	1	AO-238	0.000	US7A?	MU	-	-	OT	Stats	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S275	2447130.50	1987 Dec 1?	Pershing 2	1	AO-239	0.000	US7A?	MU	-	-	OT	Stats	-	-
1988-S164	2447160.50	1988?	Pershing 1A	-	AO-241	0.000	US7A?	MU	-	-	OT	FRGPER	-	-
1988-S43	2447174.08	1988 Jan 13 1401:05	Pershing 2	-	AO	0.000	9FA3	MS	-	-	OT	CCMOPS	Wire (1404Z)	-
1988-S53	2447207.04	1988 Feb 15 1303:03	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S54	2447207.06	1988 Feb 15 1321:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S55	2447207.07	1988 Feb 15 1342:06	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S56	2447207.14	1988 Feb 15 1516:04	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S57	2447207.15	1988 Feb 15 1542:06	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S58	2447207.17	1988 Feb 15 1601:05	Pershing 2	-	- P2-61	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S68	2447242.04	1988 Mar 21 1301:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S69	2447242.05	1988 Mar 21 1319:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S70	2447242.09	1988 Mar 21 1413:03	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S71	2447242.16	1988 Mar 21 1545:05	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S72	2447242.20	1988 Mar 21 1653:04	Pershing 2	-	-	0.000	US7A	MS	-	-	OT	CCMOPS	-	-
1988-S170	2447295.10	1988 May 13 1430	Pershing 2	1	AO	0.000	9FA3	MS	-	-	OT	MissileRanger880520	FRGPER	-
1988-S183	2447295.12	1988 May 13 1455	Pershing 2	1	AO	0.000	9FA3	MS	-	-	OT	MissileRanger880520	FRGPER	-
1988-S184	2447295.18	1988 May 13 1615	Pershing 2	1	AO	0.000	9FA3	MS	-	-	OT	MissileRanger880520	FRGPER	-
1988-S185	2447160.50	1988?	Pershing 1A	?	AO-242	0.000	US7A?	MU	-	-	OT	FRGPER	-	-
1988-S166	2447441.50	1988 Oct 7	Pershing 1A	-	AO-243 Cert. Fir.	0.000	FKG2	MU	-	-	OT	FRGPER	-	-
1988-S167	2447441.50	1988 Oct 7	Pershing 1A	-	AO-244 Cert. Fir.	0.000	FKG2	MU	-	-	OT	FRGPER	-	-
1988-S168	2447455.50	1988 Oct 21	Pershing 1A	-	AO-245 Cert. Fir.	0.000	FKG1	MU	-	-	OT	FRGPER	-	-
1988-S169	2447455.50	1988 Oct 21	Pershing 1A	-	AO-246 Cert. Fir.	0.000	FKG1	MU	-	-	OT	FRGPER	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S276	2439641.50	1967 Jun	Petrel	-	-	Test	-	-	-	SUIST	-	-	-	140?	-	-
1967-S277	2439641.50	1967 Jun	Petrel	-	-	Test	-	-	-	SUIST	-	-	-	140?	-	-
1967-S330	2439671.50	1967 Q3?	Petrel	-	-	Test	-	-	-	SUIST	-	-	-	140?	-	-
1968-S686	2439856.50	1968 Q1?	Petrel	-	-	Test	-	-	-	SUIST	-	-	-	140?	-	-
1968-S119	2439890.22	1968 Feb 3 1712	Petrel	-	P5H	Electrons	-	-	-	SUIST	-	-	-	140	-	-
1968-S161	2439916.39	1968 Feb 29 2118	Petrel	-	P6H	Electrons	-	-	-	SUIST	-	-	-	140?	-	-
1968-S169	2439922.19	1968 Mar 6 1636	Petrel	-	P7H	C/D/E electrons	-	-	-	SUIST	-	-	-	140?	-	-
1968-S213	2439941.38	1968 Mar 25 2114	Petrel	-	P8H	C/D/E electrons	-	-	-	SUIST	-	-	-	135	-	-
1968-S351	2440006.05	1968 May 29 1315	Petrel	-	P17H	Langmuir probe	-	-	-	SUIST	-	-	-	140?	-	-
1968-S357	2440009.24	1968 Jun 1 1750	Petrel	-	P18H	Langmuir probe	-	-	-	SUIST	-	-	-	131	-	-
1968-S440	2440069.94	1968 Aug 1 1027	Petrel	-	P13H	Solar X/La/ne	-	-	-	SUIST	-	-	-	145	-	-
1968-S577	2440171.83	1968 Nov 11 0800	Petrel	-	P15H	C/D/E electrons/SpE	-	-	-	SUIST	-	-	-	142	-	-
1968-S616	2440191.12	1968 Nov 30 1457	Petrel	-	P19H	D-region	-	-	-	SUIST	-	-	-	140?	-	-
1968-S630	2440196.15	1968 Dec 5 1529	Petrel	-	P22H	D-region	-	-	-	SUIST	-	-	-	144	-	-
1968-S635	2440200.05	1968 Dec 9 1317	Petrel	-	P9H	Winter abs/Strato	-	-	-	SUIST	-	-	-	118	-	-
1969-S105	2440256.38	1969 Feb 3 2105:38	Petrel	-	P24K	Electrons	-	-	-	ESR	N	-	-	157	-	-
1969-S125	2440264.38	1969 Feb 11 2109:00	Petrel	-	P23K	Electrons	-	-	-	ESR	N	-	-	157	-	-
1969-S141	2440267.43	1969 Feb 14 2215:40	Petrel	-	P27K	Small scale struct	-	-	-	ESR	N	-	-	149	-	-
1969-S142	2440268.39	1969 Feb 15 2120:00	Petrel	-	P28K	Small scale struct	-	-	-	ESR	N	-	-	153	-	-
1969-S197	2440297.50	1969 Mar 17 0004:50	Petrel	-	P29K	Particles	-	-	-	ESR	N	-	-	151	-	-
1969-S201	2440298.27	1969 Mar 17 1823:05	Petrel	-	P25K	E field gradient	-	-	-	ESR	N	-	-	148	-	-
1969-S204	2440299.26	1969 Mar 18 1816	Petrel	-	P11K	E-region E field	-	-	-	ESR	N	-	-	170	-	-
1969-S239	2440310.33	1969 Mar 29 2000	Petrel	-	P26K	Small scale struct	-	-	-	ESR	N	-	-	150	-	-
1969-S369	2440391.03	1969 Jun 18 1250	Petrel	-	P34H	Solar X/La/ne	-	-	-	SUIST	-	-	-	137	-	-
1969-S370	2440392.15	1969 Jun 19 1530	Petrel	-	P35H	Solar X/La/ne	-	-	-	SUIST	-	-	-	136	-	-
1969-S429	2440431.09	1969 Jul 28 1415	Petrel	-	P40H	SpE fine scale	-	-	-	SUIST	-	-	-	121	-	-
1969-S435	2440435.98	1969 Aug 2 1137	Petrel	-	P12H	SpE fine scale	-	-	-	SUIST	-	-	-	126	-	-
1969-S502	2440480.07	1969 Sep 15 1334	Petrel	-	P58H	D-region	-	-	-	SUIST	-	-	-	140?	-	-
1969-S526	2440495.45	1969 Sep 30 2240:55	Petrel	-	P46H	Night D/E-region	-	-	-	SUIST	-	-	-	100?	-	-
1969-S528	2440495.56	1969 Oct 1 0120	Petrel	-	P52H	Night D/E-region	-	-	-	SUIST	-	-	-	140?	-	-
1969-S529	2440495.68	1969 Oct 1 0419	Petrel	-	P51H	Night D/E-region	-	-	-	SUIST	-	-	-	140?	-	-
1969-S535	2440504.78	1969 Oct 10 0650	Petrel	-	P20H	SpE	-	-	-	SUIST	-	-	-	130	-	-
1969-S539	2440506.32	1969 Oct 11 1936	Petrel	-	P38H	E fields	-	-	-	SUIST	-	-	-	140?	-	-
1969-S544	2440509.28	1969 Oct 14 1843	Petrel	-	P14H	D/E regions	-	-	-	SUIST	-	-	-	140?	-	-
1969-S551	2440511.80	1969 Oct 17 0705	Petrel	-	P16H	SpE	-	-	-	SUIST	-	-	-	140?	-	-
1970-S133	2440638.98	1970 Feb 21 1135	Petrel	-	P53H	UK-4 inst prototype	-	-	-	SUIST	-	-	-	148	-	-
1970-S321	2440698.36	1970 Apr 21 2042	Petrel	-	P36H	Particles	-	-	-	SUIST	-	-	-	139	-	-
1970-S410	2440765.23	1970 Jun 27 1727	Petrel	-	P39H	SpE fine scale	-	-	-	SUIST	-	-	-	126	-	-
1970-S665	2440808.49	1970 Aug 9 2340:10	Petrel	-	-	RTG SP4 (NLC)	-	-	-	ESR	N	-	-	147	-	-
1970-S504	2440837.71	1970 Sep 8 0507	Petrel	-	P30H	D/E regions	-	-	-	SUIST	-	-	-	148	-	-
1970-S506	2440838.29	1970 Sep 8 1901	Petrel	-	P32H	D/E regions	-	-	-	SUIST	-	-	-	149	-	-
1970-S515	2440840.75	1970 Sep 11 0559	Petrel	-	P31H	D/E regions	-	-	-	SUIST	-	-	-	140?	-	-
1970-S525	2440847.99	1970 Sep 18 1139	Petrel	-	P10H	Winter anom/Strato	-	-	-	SUIST	-	-	-	144	-	-
1970-S603	2440903.02	1970 Nov 12 1230	Petrel	-	P21H	Winter anom/Strato	-	-	-	SUIST	-	-	-	85	-	-
1970-S607	2440907.33	1970 Nov 16 2000	Petrel	-	P37H	Particles	-	-	-	SUIST	-	-	-	140?	-	-
1970-S609	2440909.72	1970 Nov 19 0515	Petrel	-	P47H	LP/VLF 1	-	-	-	SUIST	-	-	-	129	-	-
1970-A124	2440923.04	1970 Dec 2 1303	Petrel	-	P81H	D-region	-	-	-	SUIST	-	-	-	38	-	-
1971-S91	2440978.06	1971 Jan 26 1322:15	Petrel	-	ESRO P40/1	ESRO P40/1	-	-	-	ESR	N	-	-	145	-	-
1971-S159	2441023.41	1971 Mar 12 2149:50	Petrel	-	P69K	Auroral electrons	-	-	-	ESR	N	-	-	153	-	-
1971-M17	2441023.45	1971 Mar 12 2242:20	Petrel	-	P92K	Auroral electrons	-	-	-	ESR	N	-	-	60	-	-
1971-S228	2441047.50	1971 Apr 5 2353:50	Petrel	-	P68K	Small-scale struc.	-	-	-	ESR	N	-	-	134	-	-
1971-S232	2441056.44	1971 Apr 14 2227:10	Petrel	-	P61K	Particles	-	-	-	ESR	N	-	-	154	-	-
1971-S234	2441056.52	1971 Apr 15 0030:30	Petrel	-	P66K	Winds/E field	-	-	-	ESR	N	-	-	131	-	-
1971-S235	2441057.73	1971 Apr 16 0525:10	Petrel	-	P62K	LP/VLF 2	-	-	-	ESR	N	-	-	138	-	-
1971-S240	2441063.29	1971 Apr 21 1859:20	Petrel	-	P64K	E field	-	-	-	ESR	N	-	-	143	-	-
1971-S241	2441063.40	1971 Apr 21 2142:50	Petrel	-	P67K	Winds/E field	-	-	-	ESR	N	-	-	128	-	-
1971-S242	2441063.46	1971 Apr 21 2303:30	Petrel	-	P63K	E field	-	-	-	ESR	N	-	-	165	-	-
1971-S248	2441066.48	1971 Apr 24 2335:55	Petrel	-	P54K	E field	-	-	-	ESR	N	-	-	162	-	-
1971-S267	2441073.48	1971 May 1 2336:30	Petrel	-	P65K	E field	-	-	-	ESR	N	-	-	146	-	-
1971-S342	2441127.98	1971 Jun 25 1130	Petrel	-	P48H	D/E regions	-	-	-	SUIST	-	-	-	140?	-	-
1971-S346	2441129.32	1971 Jun 26 1944	Petrel	-	P120H	Solar La/X/ne	-	-	-	SUIST	-	-	-	143	-	-
1971-S348	2441131.02	1971 Jun 28 1225	Petrel	-	P109H	Solar La/X/ne	-	-	-	SUIST	-	-	-	143	-	-
1971-S367	2441147.38	1971 Jul 14 2100	Petrel	-	P79H	Elec. analyser	-	-	-	SUIST	-	-	-	143	-	-
1971-S368	2441147.42	1971 Jul 14 2204	Petrel	-	P93H	Elec. analyser	-	-	-	SUIST	-	-	-	142	-	-
1971-A77	2441208.38	1971 Sep 13 2114	Petrel	-	P74H	Night D/E regions	-	-	-	SUIST	-	-	-	18	-	-
1971-S468	2441217.03	1971 Sep 22 1241	Petrel	-	P121H	Solar La/X/ne	-	-	-	SUIST	-	-	-	138	-	-
1971-S473	2441219.23	1971 Sep 24 1726	Petrel	-	P122H	Solar La/X/ne	-	-	-	SUIST	-	-	-	125	-	-
1971-S480	2441222.99	1971 Sep 28 1148	Petrel	-	P49H	Winter anom/Strato	-	-	-	SUIST	-	-	-	142	-	-
1971-S563	2441273.54	1971 Nov 18 0101	Petrel	-	P123S/C	Li	-	-	-	SOM	-	-	-	120	-	-
1971-S573	2441280.55	1971 Nov 25 0111	Petrel	-	P124S/C	Li	-	-	-	SOM	-	-	-	120	-	-
1971-S577	2441287.07	1971 Dec 1 1334	Petrel	-	P80H	D-region	-	-	-	SUIST	-	-	-	146	-	-
1971-S581	2441289.04	1971 Dec 3 1258	Petrel	-	P82H	D-region	-	-	-	SUIST	-	-	-	140?	-	-
1971-S591	2441292.09	1971 Dec 6 1403	Petrel	-	P83H	D-region	-	-	-	SUIST	-	-	-	145	-	-
1971-S595	2441293.05	1971 Dec 7 1310	Petrel	-	P84H	D-region	-	-	-	SUIST	-	-	-	140?	-	-
1971-S600	2441296.02	1971 Dec 10 1222	Petrel	-	P119H	Electron temp	-	-	-	SUIST	-	-	-	140?	-	-
1972-S32	2441321.05	1972 Jan 4 1314	Petrel	-	P78T/C	ISRO 18.01	TERLS-398	-	-	TERLS	-	-	-	167	-	-
1972-S34	2441323.05	1972 Jan 6 1314	Petrel	-	P95T/C	ISRO 18.02	TERLS-401	-	-	TERLS	-	-	-	126	-	-
1972-S35	2441324.05	1972 Jan 7 1311	Petrel	-	P77T/C	ISRO 18.03	TERLS-402	-	-	TERLS	-	-	-	166	-	-
1972-S38	2441331.26	1972 Jan 14 1813	Petrel	-	P89T/C	ISRO 18.04	TERLS-404	-	-	TERLS	-	-	-	128	-	-
1972-S42	2441332.07	1972 Jan 15 1337	Petrel	-	P85H	Solar La/X/ne	-	-	-	SUIST	-	-	-	147	-	-
1972-A07	2441334.73	1972 Jan 18 0535	Petrel	-	P88T/C	ISRO 18.05	TERLS-406	-	-	TERLS	-	-	-	23	-	-
1972-S49	2441339.03	1972 Jan 22 1244	Petrel	-	P107H	Solar La/X/ne	-	-	-	SUIST	-	-	-	142	-	-
1972-S60	2441349.73	1972 Feb 2 0530	Petrel	-	P110T/C	ISRO 18.06	TERLS-410	-	-	TERLS	-	-	-	134	-	-
1972-S66	2441352.75	1972 Feb 5 0600	Petrel	-	P59T/C	ISRO 18.07	TERLS-412	-	-	TERLS	-	-	-	139	-	-
1972-S76	2441361.04	1972 Feb 13 1255	Petrel	-	P60T/C	ISRO 18.08	TERLS-414	-	-	TERLS	-	-	-	137	-	-
1972-S82	2441365.08	1972 Feb 17 1348	Petrel	-	P111H	Faraday rotation	-	-	-	SUIST	-	-	-	134	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A16	2441366.03	1972 Feb 18 1238	Petrel	-	P117H	E-region multiprobe	-	-	-	SUIST	-	-	-	25	-	-
1972-S295	2441558.97	1972 Aug 29 1112	Petrel	-	P118H	E-region multiprobe	-	-	-	SUIST	-	-	-	140?	-	-
1972-S296	2441559.05	1972 Aug 29 1312	Petrel	-	P130H	Solar La/X	-	-	-	SUIST	-	-	-	135	-	-
1972-S297	2441560.42	1972 Aug 30 2202	Petrel	-	P75H	Scattered La	-	-	-	SUIST	-	-	-	118	-	-
1972-S300	2441560.50	1972 Aug 31 0002	Petrel	-	P108H	Scattered La	-	-	-	SUIST	-	-	-	146	-	-
1972-S301	2441560.59	1972 Aug 31 0216	Petrel	-	P76H	Scattered La	-	-	-	SUIST	-	-	-	126	-	-
1972-S331	2441596.31	1972 Oct 5 1924:07	Petrel	-	P127A	Particles/substorm	-	-	-	AND	-	-	-	117	-	-
1972-S332	2441598.45	1972 Oct 7 2247:55	Petrel	-	P42A	Particles/substorm	-	-	-	AND	-	-	-	140?	-	-
1972-S336	2441601.39	1972 Oct 10 2121:51	Petrel	-	P55A	LP/VLF 3	-	-	-	AND	-	-	-	140?	-	-
1972-S358	2441612.33	1972 Oct 21 2000:50	Petrel	-	P126A	Particles/substorm	-	-	-	AND	-	-	-	117	-	-
1972-S361	2441614.30	1972 Oct 23 1905:21	Petrel	-	P125A	Elec. analyser	-	-	-	AND	-	-	-	140?	-	-
1972-S391	2441624.99	1972 Nov 3 1145:48	Petrel	-	P129A	LP/VLF 4 Pol chorus	-	-	-	AND	-	-	-	140?	-	-
1972-S396	2441630.46	1972 Nov 8 2256:24	Petrel	-	P41A	Particles/substorm	-	-	-	AND	-	-	-	140?	-	-
1973-A86	2441682.50	1973	Petrel	-	D	Target	-	-	-	ABER	SK?	-	-	1	-	-
1973-S73	2441733.05	1973 Feb 19 1317	Petrel	-	P116H	Composition	-	-	-	SUIST	-	-	-	124	-	-
1973-S80	2441736.04	1973 Feb 22 1304	Petrel	-	P114H	Electrons/La	-	-	-	SUIST	-	-	-	126	-	-
1973-S82	2441737.08	1973 Feb 23 1348	Petrel	-	P113H	Electrons/La	-	-	-	SUIST	-	-	-	140?	-	-
1973-S111	2441761.65	1973 Mar 20 0341	Petrel	-	P43H	Dawn chorus	-	-	-	SUIST	-	-	-	129	-	-
1973-S132	2441772.64	1973 Mar 31 0317	Petrel	-	P44H	Dawn chorus	-	-	-	SUIST	-	-	-	126	-	-
1973-S134	2441775.76	1973 Apr 3 0609	Petrel	-	P131H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	131	-	-
1973-S135	2441775.79	1973 Apr 3 0654	Petrel	-	P133H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	132	-	-
1973-S136	2441775.84	1973 Apr 3 0814	Petrel	-	P105H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	137	-	-
1973-S137	2441775.91	1973 Apr 3 0948	Petrel	-	P132H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	139	-	-
1973-S139	2441776.12	1973 Apr 3 1452	Petrel	-	P134H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	140	-	-
1973-S140	2441776.18	1973 Apr 3 1615	Petrel	-	P104H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	136	-	-
1973-S142	2441776.24	1973 Apr 3 1744	Petrel	-	P135H	D-Region/Solar La/X	-	-	-	SUIST	-	-	-	134	-	-
1973-S170	2441821.97	1973 May 19 1111	Petrel	-	P56H	XRB scintillator tel	-	-	-	SUIST	-	-	-	137	-	-
1973-S213	2441863.00	1973 Jun 29 1159	Petrel	-	P162H	Composition	-	-	-	SUIST	-	-	-	140?	-	-
1973-S226	2441866.02	1973 Jul 2 1230	Petrel	-	P163H	Composition	-	-	-	SUIST	-	-	-	136	-	-
1973-S246	2441887.02	1973 Jul 23 1223	Petrel	-	P45H	XRB scintillator tel	-	-	-	SUIST	-	-	-	143	-	-
1973-S293	2441928.50	1973 Sep 3 0003	Petrel	-	P97H	Airglow	-	-	-	SUIST	-	-	-	135	-	-
1973-S294	2441928.59	1973 Sep 3 0204	Petrel	-	P98H	Airglow	-	-	-	SUIST	-	-	-	143	-	-
1973-S297	2441931.99	1973 Sep 6 1139	Petrel	-	P165H	Composition/La	-	-	-	SUIST	-	-	-	131	-	-
1973-S300	2441935.50	1973 Sep 10 0002	Petrel	-	P102H	TMA	-	-	-	SUIST	-	-	-	170	-	-
1973-S301	2441935.68	1973 Sep 10 0418	Petrel	-	P103H	TMA	-	-	-	SUIST	-	-	-	168	-	-
1973-S305	2441940.69	1973 Sep 15 0436	Petrel	-	P106H	ELF/VLF	-	-	-	SUIST	-	-	-	124	-	-
1973-S345	2441969.50	1973 Oct 14 0001:20	Petrel	-	P100A	High Lat/Na	-	-	-	AND	-	-	-	166	-	-
1973-S346	2441972.32	1973 Oct 16 1941:39	Petrel	-	P141A	High Lat/Particles	-	-	-	AND	-	-	-	148	-	-
1973-S349	2441973.23	1973 Oct 17 1728:10	Petrel	-	P101A	High Lat/Na	-	-	-	AND	-	-	-	136	-	-
1973-M13	2441986.29	1973 Oct 30 1854:19	Petrel	-	P147A	High Lat/Particles	-	-	-	AND	-	-	-	71	-	-
1973-S370	2441986.30	1973 Oct 30 1915:54	Petrel	-	P142A	High Lat/e,p	-	-	-	AND	-	-	-	133	-	-
1973-S371	2441986.34	1973 Oct 30 2004:06	Petrel	-	P143A	High Lat/e,p	-	-	-	AND	-	-	-	135	-	-
1973-S390	2442003.46	1973 Nov 16 2304:26	Petrel	-	P150A	High Lat/E field	-	-	-	AND	-	-	-	175	-	-
1973-S391	2442003.49	1973 Nov 16 2342:50	Petrel	-	P145A	High Lat/Na	-	-	-	AND	-	-	-	175	-	-
1973-S392	2442003.52	1973 Nov 17 0023:13	Petrel	-	P149A	High Lat/Substorm	-	-	-	AND	-	-	-	143	-	-
1973-S393	2442003.54	1973 Nov 17 0101:20	Petrel	-	P146A	High Lat/Na	-	-	-	AND	-	-	-	175	-	-
1973-S394	2442003.56	1973 Nov 17 0122:00	Petrel	-	P148A	High Lat/Substorm	-	-	-	AND	-	-	-	132	-	-
1973-S415	2442019.09	1973 Dec 2 1410:00	Petrel	-	P181A	High Lat/Ba	-	-	-	AND	-	-	-	140?	-	-
1973-S427	2442022.80	1973 Dec 6 0711:00	Petrel	-	P96A	High Lat/Ba	-	-	-	AND	-	-	-	140?	-	-
1973-S428	2442022.89	1973 Dec 6 0918:43	Petrel	-	P71A	High Lat/ELF-VLF	-	-	-	AND	-	-	-	140?	-	-
1974-S156	2442139.44	1974 Apr 1 2237	Petrel	-	P174H	Atomic oxygen	-	-	-	SUIST	-	-	-	142	-	-
1974-S157	2442139.46	1974 Apr 1 2256	Petrel	-	P178H	Atomic oxygen	-	-	-	SUIST	-	-	-	134	-	-
1974-S161	2442140.73	1974 Apr 3 0525	Petrel	-	P173H	Atomic oxygen	-	-	-	SUIST	-	-	-	133	-	-
1974-S162	2442140.74	1974 Apr 3 0540	Petrel	-	P177H	Atomic oxygen	-	-	-	SUIST	-	-	-	133	-	-
1974-S185	2442168.20	1974 Apr 30 1655	Petrel	-	P72H	Quiet ionosphere	-	-	-	SUIST	-	-	-	126	-	-
1974-S291	2442294.48	1974 Sep 3 2325	Petrel	-	P99H	Plasmapause flux	-	-	-	SUIST	-	-	-	136	-	-
1974-S293	2442297.50	1974 Sep 6 2359	Petrel	?	P94H	Plasmapause flux	-	-	-	SUIST	-	-	-	174	-	-
1974-S297	2442301.96	1974 Sep 11 1102	Petrel	-	P90T/C	Mass spectrometer	-	-	-	SUIST	-	-	-	135	-	-
1974-S326	2442315.47	1974 Sep 24 2317	Petrel	-	P50H	Airglow	-	-	-	SUIST	-	-	-	136	-	-
1974-S328	2442317.59	1974 Sep 27 0209	Petrel	-	P57H	Airglow	-	-	-	SUIST	-	-	-	136	-	-
1974-S330	2442318.98	1974 Sep 28 1132	Petrel	-	P161H	Electron density	-	-	-	SUIST	-	-	-	119	-	-
1974-S393	2442380.93	1974 Nov 29 1017	Petrel	-	P182H	-	-	-	-	SUIST	-	-	-	118	-	-
1974-S394	2442381.00	1974 Nov 29 1153	Petrel	-	P175H	Atomic oxygen	-	-	-	SUIST	-	-	-	134	-	-
1974-S395	2442381.01	1974 Nov 29 1209	Petrel	-	P179H	Atomic oxygen	-	-	-	SUIST	-	-	-	123	-	-
1974-S399	2442384.02	1974 Dec 2 1236	Petrel	-	P91H	-	-	-	-	SUIST	-	-	-	129	-	-
1974-S404	2442389.36	1974 Dec 7 2037	Petrel	-	P183H	-	-	-	-	SUIST	-	-	-	101	-	-
1974-S405	2442389.37	1974 Dec 7 2058	Petrel	-	P180H	-	-	-	-	SUIST	-	-	-	132	-	-
1974-S406	2442389.43	1974 Dec 7 2226	Petrel	-	P176H	-	-	-	-	SUIST	-	-	-	137	-	-
1974-S407	2442389.45	1974 Dec 7 2253	Petrel	-	P128H	Airglow	-	-	-	SUIST	-	-	-	138	-	-
1974-S419	2442398.97	1974 Dec 17 1112	Petrel	-	P86G	Polar Cusp Li	-	-	-	SSG	-	-	-	165	-	-
1974-S420	2442399.03	1974 Dec 17 1237	Petrel	-	P87G	Polar Cusp Li	-	-	-	SSG	-	-	-	165	-	-
1974-S422	2442399.97	1974 Dec 18 1115	Petrel	-	P166G	Polar Cusp Li	-	-	-	SSG	-	-	-	165	-	-
1974-S423	2442400.03	1974 Dec 18 1245	Petrel	-	P167G	Polar Cusp Li	-	-	-	SSG	-	-	-	165	-	-
1975-S46	2442438.03	1975 Jan 25 1240	Petrel	-	INTA MPGFD-7501	-	-	-	-	ELAR	-	-	-	100?	-	-
1975-S53	2442443.01	1975 Jan 30 1215	Petrel	-	INTA MPGFD-7502	-	-	-	-	ELAR	-	-	-	82	-	-
1975-S64	2442452.52	1975 Feb 9 0024	Petrel	-	P154T/C	ISRO-18.09	TERLS-726	-	-	TERLS	-	-	-	165	-	-
1975-S65	2442452.52	1975 Feb 9 0029	Petrel	-	P158T/C	ISRO-18.10	TERLS-727	-	-	TERLS	-	-	-	130	-	-
1975-S66	2442452.73	1975 Feb 9 0530	Petrel	-	P137T/C	ISRO-18.11	TERLS-728	-	-	TERLS	-	-	-	102	-	-
1975-S63	2442452.73	1975 Feb 9 0535	Petrel	-	P155T/C Electrojet	ISRO-18.12	TERLS-729	-	-	TERLS	-	-	-	170	-	-
1975-S68	2442452.80	1975 Feb 9 0708	Petrel	-	P159T/C	ISRO-18.13	TERLS-731	-	-	TERLS	-	-	-	130	-	-
1975-S75	2442462.86	1975 Feb 19 0837	Petrel	-	P156T/C	ISRO-18.15	TERLS-733	-	-	TERLS	-	-	-	170	-	-
1975-S76	2442462.86	1975 Feb 19 0842	Petrel	-	P138T/C	ISRO-18.14	TERLS-734	-	-	TERLS	-	-	-	135	-	-
1975-S78	2442463.06	1975 Feb 19 1332	Petrel	-	P157T/C	ISRO-18.17	TERLS-736	-	-	TERLS	-	-	-	165	-	-
1975-S106	2442487.19	1975 Mar 15 1634	Petrel	-	P70T/C	ISRO-18.16	TERLS-739	-	-	TERLS	-	-	-	147	-	-
1975-S107	2442487.50	1975 Mar 16 0000	Petrel	-	P184T/C	ISRO-18.18	TERLS-740	-	-	TERLS	-	-	-	120	-	-
1975-S110	2442490.89	1975 Mar 19 0921	Petrel	-	P185T/C	ISRO-18.19	TERLS-741	-	-	TERLS	-	-	-	107	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-S112	2442495.50	1975 Mar 24 0006	Petrel	-	P160T/C	ISRO-18.20	TERLS-743	-	-	TERLS	-	-	-	90	-	-
1975-S142	2442536.29	1975 May 3 1900	Petrel	-	P164H	Electron density	-	-	-	SUIST	-	-	-	111	-	-
1975-S144	2442567.99	1975 Jun 4 1142:00	Petrel	-	INTA MPGFD-7503	-	-	-	-	ELAR	-	-	-	81	-	-
1975-S147	2442570.97	1975 Jun 7 1118:00	Petrel	-	INTA MPGFD-7504	-	-	-	-	ELAR	-	-	-	86	-	-
1975-S269	2442664.52	1975 Sep 9 0030	Petrel	-	P168H	Airglow	-	-	-	SUIST	-	-	-	130	-	-
1975-S268	2442664.54	1975 Sep 9 0056	Petrel	-	P136H	Atomic oxygen	-	-	-	SUIST	-	-	-	141	-	-
1975-S270	2442664.50	1975 Sep 9	Petrel	-	P153H	Electron density	-	-	-	SUIST	-	-	-	129	-	-
1975-S328	2442745.02	1975 Nov 28 1228	Petrel	-	P152H	Electron density	-	-	-	SUIST	-	-	-	129	-	-
1975-S329	2442745.04	1975 Nov 28 1256	Petrel	-	P151H	Atomic oxygen	-	-	-	SUIST	-	-	-	147	-	-
1976-S45	2442782.07	1976 Jan 4 1340:00	Petrel	-	INTA MPGA-7601	Winter Anomaly	-	-	-	ELAR	-	-	-	84	-	-
1976-S49	2442782.17	1976 Jan 4 1600	Petrel	-	INTA UCLP-7601	Winter Anom B-VI-1	-	-	-	ELAR	-	-	-	135	-	-
1976-M02	2442798.07	1976 Jan 20 1340:00	Petrel	-	INTA MPGAFD-7602	Winter Anomaly	-	-	-	ELAR	-	-	-	60	-	-
1976-M04	2442799.07	1976 Jan 21 1340:00	Petrel	-	INTA MPGAFD-7603	Winter Anomaly	-	-	-	ELAR	-	-	-	79	-	-
1976-S68	2442799.16	1976 Jan 21 1555	Petrel	-	INTA UCLP-7602	Winter Anom B-VI-2	-	-	-	ELAR	-	-	-	140	-	-
1976-S69	2442799.26	1976 Jan 21 1817	Petrel	-	INTA UCLP-7603	Winter Anom B-VI-3	-	-	-	ELAR	-	-	-	135	-	-
1976-S97	2442817.10	1976 Feb 8 1426:00	Petrel	-	INTA MPGAFD-7604	Winter Anom	-	-	-	ELAR	-	-	-	81	-	-
1976-S176	2442904.99	1976 May 6 1144	Petrel	-	P186H	Mass spectrometer	-	-	-	SUIST	-	-	-	149	-	-
1976-S177	2442905.01	1976 May 6 1221	Petrel	-	P115H	Faraday rotation	-	-	-	SUIST	-	-	-	137	-	-
1976-S393	2442907.18	1976 May 8 1618	Petrel	-	INTA MPGAFD-7605	Winter Anom	-	-	-	ELAR	-	-	-	85?	-	-
1976-S394	2442914.17	1976 May 15 1608	Petrel	-	INTA MPGAFD-7606	Winter Anom	-	-	-	ELAR	-	-	-	85?	-	-
1976-S195	2442933.68	1976 Jun 4 0423	Petrel	-	P187H	E field/VLF	-	-	-	SUIST	-	-	-	143	-	-
1976-S196	2442933.69	1976 Jun 4 0439	Petrel	-	P144H	VLF	-	-	-	SUIST	-	-	-	132	-	-
1976-S224	2442964.99	1976 Jul 5 1144	Petrel	-	P188H	Atomic oxygen	-	-	-	SUIST	-	-	-	135	-	-
1977-S61	2443182.40	1977 Feb 7 2140	Petrel	-	MOP1	Ozone/La/ne	-	-	-	SUIST	-	-	-	127	-	-
1977-A09	2443182.42	1977 Feb 7 2205	Petrel	-	P195H	-	-	-	-	SUIST	-	-	-	46	-	-
1977-S62	2443182.46	1977 Feb 7 2309	Petrel	-	P192H	-	-	-	-	SUIST	-	-	-	146	-	-
1977-S63	2443182.48	1977 Feb 7 2326	Petrel	-	P193H	-	-	-	-	SUIST	-	-	-	135	-	-
1977-S70	2443186.02	1977 Feb 11 1233	Petrel	-	P194H	-	-	-	-	SUIST	-	-	-	140?	-	-
1977-S71	2443186.05	1977 Feb 11 1318	Petrel	-	P191H	-	-	-	-	SUIST	-	-	-	132	-	-
1977-S72	2443186.08	1977 Feb 11 1359	Petrel	-	P189H	Atomic oxygen	-	-	-	SUIST	-	-	-	142	-	-
1977-S206	2443321.99	1977 Jun 27 1148	Petrel	-	P196H	Atomic oxygen	-	-	-	SUIST	-	-	-	129	-	-
1977-S207	2443322.00	1977 Jun 27 1206	Petrel	-	P190H	O2/ne	-	-	-	SUIST	-	-	-	124	-	-
1977-S261	2443433.44	1977 Oct 16 2233:36	Petrel 2	-	P207A	Na	-	-	-	AND	-	-	-	207	-	-
1978-S57	2443542.04	1978 Feb 2 1304	Petrel	-	P199H	Atomic oxygen	-	-	-	SUIST	-	-	-	140	-	-
1978-S58	2443542.06	1978 Feb 2 1333	Petrel	-	P203H	Ion composition	-	-	-	SUIST	-	-	-	112	-	-
1978-S59	2443542.08	1978 Feb 2 1356	Petrel	-	P112H	Solar La	-	-	-	SUIST	-	-	-	135	-	-
1978-S60	2443545.51	1978 Feb 6 0020	Petrel	-	P200H	UV airglow	-	-	-	SUIST	-	-	-	136	-	-
1978-S61	2443545.54	1978 Feb 6 0100	Petrel	-	P202H	La/ne	-	-	-	SUIST	-	-	-	125	-	-
1978-S63	2443546.52	1978 Feb 7 0030	Petrel	-	P204H	Ion composition	-	-	-	SUIST	-	-	-	108	-	-
1978-S64	2443546.54	1978 Feb 7 0101	Petrel	-	P198H	Atomic oxygen	-	-	-	SUIST	-	-	-	139	-	-
1978-S68	2443552.50	1978 Feb 13	Petrel	-	MOP4	Ozone	-	-	-	SUIST	-	-	-	140?	-	-
1978-S69	2443552.50	1978 Feb 13	Petrel	-	MOP2	Ozone	-	-	-	SUIST	-	-	-	140?	-	-
1978-S192	2443720.45	1978 Jul 30 2241:18	Petrel	-	P205K	Atomic oxygen	-	-	-	ESR	N	-	-	149	-	-
1978-S261	2443720.47	1978 Jul 30 2312:30	Petrel	-	MPI1	-	-	-	-	ESR	N	-	-	127	-	-
1978-S262	2443733.52	1978 Aug 13 0026:57	Petrel	-	MPI2	-	-	-	-	ESR	N	-	-	129	-	-
1978-S196	2443733.54	1978 Aug 13 0058:15	Petrel	-	P206K	Atomic oxygen	-	-	-	ESR	N	-	-	150	-	-
1979-S44	2443899.38	1979 Jan 25 2107:33	Petrel 2	-	P216K	Auroral pulsations	-	-	-	ESR	N	-	-	179	-	-
1979-S48	2443901.34	1979 Jan 27 2004:55	Petrel 2	-	P215K	Auroral pulsations	-	-	-	ESR	N	-	-	180	-	-
1979-S107	2443961.15	1979 Mar 28 1538:24	Petrel 2	-	P208A	VLF waves	-	-	-	AND	-	-	-	169	-	-
1979-S131	2443989.02	1979 Apr 25 1224	Petrel	-	P201H	-	-	-	-	SUIST	-	-	-	130	-	-
1979-S168	2444074.50	1979 Jul 20	Petrel	-	P211H	Atomic oxygen	-	-	-	SUIST	-	-	-	145	-	-
1979-S169	2444074.50	1979 Jul 20	Petrel	-	P210H	Atomic oxygen	-	-	-	SUIST	-	-	-	149	-	-
1979-S170	2444074.50	1979 Jul 20	Petrel	-	P209H	Atomic oxygen	-	-	-	SUIST	-	-	-	149	-	-
1979-A41	2444140.73	1979 Sep 24 0532	Petrel 2	-	P217E	INTA PSU/P.217E	Ba release	-	-	ELAR	-	-	-	30	-	-
1979-S295	2444148.58	1979 Oct 2 0200	Petrel	-	MOP5?	Ozone	-	-	-	SUIST	-	-	-	150?	-	-
1979-S296	2444148.75	1979 Oct 2 0600	Petrel	-	MOP6?	Ozone	-	-	-	SUIST	-	-	-	150?	-	-
1979-S297	2444148.90	1979 Oct 2 0930	Petrel	-	MOP7?	Ozone	-	-	-	SUIST	-	-	-	150?	-	-
1979-S298	2444149.15	1979 Oct 2 1530	Petrel	-	MOP8?	Ozone	-	-	-	SUIST	-	-	-	150?	-	-
1979-S216	2444150.28	1979 Oct 3 1842	Petrel 2	-	P218E	INTA PSU/P.218E	Ba release	-	-	ELAR	-	-	-	145	-	-
1980-S146	2444447.48	1980 Jul 26 2338	Petrel 2	-	P223K	VLF propagation	-	-	-	ESR	N	-	-	168	-	-
1980-S194	2444554.51	1980 Nov 11 0012:00	Petrel 2	-	P221K	EBC-C E5	-	-	-	ESR	N	-	-	170	-	-
1980-S200	2444559.63	1980 Nov 16 0314:18	Petrel 2	-	P220K	EBC-B E5	-	-	-	ESR	N	-	-	174	-	-
1980-S217	2444574.49	1980 Nov 30 2345:30	Petrel 2	-	P222K	EBC-A2 E5	-	-	-	ESR	N	-	-	169	-	-
1981-S63	2444643.34	1981 Feb 7 2013:45	Petrel 2	-	P219K	Atomic oxygen	-	-	-	ESR	N	-	-	171	-	-
1981-S174	2444940.16	1981 Dec 1 1550:00	Petrel	-	P224K	Li/Na	-	-	-	ESR	N	-	-	187	-	-
1981-S181	2444948.22	1981 Dec 9 1717:00	Petrel 2	-	P225K	Li/Na	-	-	-	ESR	N	-	-	188	-	-
1981-S185	2444955.09	1981 Dec 16 1410:00	Petrel	-	P226K	LITHIUM	-	-	-	ESR	N	-	-	187	-	-
1981-S186	2444958.33	1981 Dec 19 2000	Petrel	-	INTA FOCCA 1-1/81	FOCCA I	IR photom	-	-	ELAR	-	-	-	106	-	-
1982-S79	2445044.25	1982 Mar 15 1800	Petrel	-	INTA FOCCA 1-1/82	FOCCA II	IR photom	-	-	ELAR	-	-	-	140?	-	-
1982-S87	2445052.39	1982 Mar 23 2127	Petrel	-	P230H	ETON	-	-	-	SUIST	-	-	-	132	-	-
1982-S88	2445052.41	1982 Mar 23 2148	Petrel	-	P232H	ETON	-	-	-	SUIST	-	-	-	138	-	-
1982-S89	2445052.42	1982 Mar 23 2210	Petrel	-	P227H	ETON	-	-	-	SUIST	-	-	-	129	-	-
1982-S90	2445052.46	1982 Mar 23 2257:00	Petrel	-	P229H	ETON	-	-	-	SUIST	-	-	-	139	-	-
1982-S91	2445052.47	1982 Mar 23 2312	Petrel	-	P231H	ETON	-	-	-	SUIST	-	-	-	131	-	-
1982-S92	2445052.48	1982 Mar 23 2328	Petrel	-	P228H	ETON	-	-	-	SUIST	-	-	-	127	-	-
1982-S93	2445052.50	1982 Mar 23 2355	Petrel	-	P234H	ETON	-	-	-	SUIST	-	-	-	129	-	-
1982-S149	2445185.50	1982 Aug 4 0003	Petrel	-	P235K	CAMP Support	-	-	-	ESR	N2	-	-	140	-	-
1982-S155	2445193.48	1982 Aug 11 2330	Petrel	-	P214K	CAMP Support	-	-	-	ESR	N2	-	-	129	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S276	2439641.50	1967 Jun	Petrel	-	-	0.000	SRC	SS	-	BAJ/	Test	Massey	-	-
1967-S277	2439641.50	1967 Jun	Petrel	-	-	0.000	SRC	SS	-	BAJ/	Test	Massey	-	-
1967-S330	2439671.50	1967 Q3?	Petrel	-	-	0.000	SRC	SS	-	BAJ/	Test	Massey	JBIS28-119	-
1968-S686	2439856.50	1968 Q1?	Petrel	-	-	0.000	SRC	SS	-	BAJ/	Test	Massey	JBIS28-119	-
1968-S119	2439890.22	1968 Feb 3 1712	Petrel	-	P5H	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	WDCRF	-	-
1968-S161	2439916.39	1968 Feb 29 2118	Petrel	-	P6H	0.000	SRC	SS	-	RSRS/Byrant	Ionospheric	WDCRF	-	-
1968-S169	2439922.19	1968 Mar 6 1636	Petrel	-	P7H	0.000	SRC	SS	-	BIR/SOTON/Wilson,Rothw.	Ionospheric	WDCRF	-	-
1968-S213	2439941.38	1968 Mar 25 2114	Petrel	-	P8H	0.000	SRC	SS	-	BIR/SOTON/Wilson,Rothw.	Ionospheric	WDCRF	-	-
1968-S351	2440006.05	1968 May 29 1315	Petrel	-	P17H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1968-S357	2440009.24	1968 Jun 1 1750	Petrel	-	P18H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1968-S440	2440069.94	1968 Aug 1 1027	Petrel	-	P13H	0.000	SRC	SS	-	RSRS/Hall,Bryant	Ionos/Solar X	WDCRF	-	-
1968-S577	2440171.83	1968 Nov 11 0800	Petrel	-	P15H	0.000	SRC	SS	-	BIR/SOTON/Wilson,Rothw.	Ionospheric	WDCRF	-	-
1968-S616	2440191.12	1968 Nov 30 1457	Petrel	-	P19H	0.000	SRC	SS	-	RSRS/Hall,Bryant	Ionospheric	WDCRF	-	-
1968-S630	2440196.15	1968 Dec 5 1529	Petrel	-	P22H	0.000	SRC	SS	-	RSRS/Hall,Bryant	Ionospheric	WDCRF	-	-
1968-S635	2440200.05	1968 Dec 9 1317	Petrel	-	P9H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1969-S105	2440256.38	1969 Feb 3 2105:38	Petrel	-	P24K	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	WDCRF	-	-
1969-S125	2440264.38	1969 Feb 11 2109:00	Petrel	-	P23K	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	WDCRF	-	-
1969-S141	2440267.43	1969 Feb 14 2215:40	Petrel	-	P27K	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1969-S142	2440268.39	1969 Feb 15 2120:00	Petrel	-	P28K	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	Massey	-
1969-S197	2440297.50	1969 Mar 17 0004:50	Petrel	-	P29K	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF/ESR	-	-
1969-S201	2440298.27	1969 Mar 17 1823:05	Petrel	-	P25K	0.000	SRC	SS	-	BIR/Wilson	Ionospheric	WDCRF/ESR	PlanSpaSci20,1281	-
1969-S204	2440299.26	1969 Mar 18 1816	Petrel	-	P11K	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric Ba	WDCRF	JBIS24,233	-
1969-S239	2440310.33	1969 Mar 29 2000	Petrel	-	P26K	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1969-S369	2440391.03	1969 Jun 18 1250	Petrel	-	P34H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric/Solar X	WDCRF	-	-
1969-S370	2440392.15	1969 Jun 19 1530	Petrel	-	P35H	0.000	SRC	SS	-	RSRS/Hall	Ionos/Solar X	QJRAS13,403	-	-
1969-S429	2440431.09	1969 Jul 28 1415	Petrel	-	P40H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1969-S435	2440435.98	1969 Aug 2 1137	Petrel	-	P12H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1969-S502	2440480.07	1969 Sep 15 1334	Petrel	-	P58H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1969-S526	2440495.45	1969 Sep 30 2240:55	Petrel	-	P46H	0.000	SRC	SS	-	RSRS/Bryant,Hall	Ionospheric	PlanSpaSci21,239	SR13,707	-
1969-S528	2440495.56	1969 Oct 1 0120	Petrel	-	P52H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1969-S529	2440495.68	1969 Oct 1 0419	Petrel	-	P51H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1969-S535	2440504.78	1969 Oct 10 0650	Petrel	-	P20H	0.000	SRC	SS	-	SOTON/BIR/Rothwell,Wils.	Ionospheric	WDCRF	-	-
1969-S539	2440506.32	1969 Oct 11 1936	Petrel	-	P38H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1969-S544	2440509.28	1969 Oct 14 1843	Petrel	-	P14H	0.000	SRC	SS	-	MSSL/Bowen	Ionospheric	WDCRF	-	-
1969-S551	2440511.80	1969 Oct 17 0705	Petrel	-	P16H	0.000	SRC	SS	-	SOTON/BIR/Rothwell,Wils.	Ionospheric	WDCRF	-	-
1970-S133	2440638.98	1970 Feb 21 1135	Petrel	-	P53H	0.000	SRC	SS	-	BIR/Goodall	Ionospheric	JBIS24,27	-	-
1970-S321	2440698.36	1970 Apr 21 2042	Petrel	-	P36H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1970-S410	2440765.23	1970 Jun 27 1727	Petrel	-	P39H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1970-S665	2440808.49	1970 Aug 9 2340:10	Petrel	-	-	0.000	RTG	SS	-	UIO/Derblom	Ionospheric	Sven	-	-
1970-S504	2440837.71	1970 Sep 8 0507	Petrel	-	P30H	0.000	SRC	SS	-	MSSL/Bowen	Ionospheric	WDCRF	-	-
1970-S506	2440838.29	1970 Sep 8 1901	Petrel	-	P32H	0.000	SRC	SS	-	MSSL/Bowen	Ionospheric	WDCRF	-	-
1970-S515	2440840.75	1970 Sep 11 0559	Petrel	-	P31H	0.000	SRC	SS	-	MSSL/Bowen	Ionospheric	WDCRF	-	-
1970-S525	2440847.99	1970 Sep 18 1139	Petrel	-	P10H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-S603	2440903.02	1970 Nov 12 1230	Petrel	-	P21H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-S607	2440907.33	1970 Nov 16 2000	Petrel	-	P37H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1970-S609	2440909.72	1970 Nov 19 0515	Petrel	-	P47H	0.000	SRC	SS	-	SOTON/SHEF/Rycroft,Bull.	Ionospheric	WDCRF	SR12,1499	-
1970-A124	2440923.04	1970 Dec 2 1303	Petrel	-	P81H	0.000	SRC	SF	U	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S91	2440978.06	1971 Jan 26 1322:15	Petrel	-	ESRO P40/1	0.000	ESRO	SS	-	MSSL/Wrenn	Ionospheric	WDCRF/ESRLV	-	-
1971-S159	2441023.41	1971 Mar 12 2149:50	Petrel	-	P69K	0.000	SRC	SS	-	RSRS/Bryant	Auroral	ssc.se	-	-
1971-M17	2441023.45	1971 Mar 12 2242:20	Petrel	-	P92K	0.000	SRC	SF	U	RSRS/Bryant	Auroral	ssc.se	Massey	-
1971-S228	2441047.50	1971 Apr 5 2353:50	Petrel	-	P68K	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	ssc.se	-	-
1971-S232	2441056.44	1971 Apr 14 2227:10	Petrel	-	P61K	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1971-S234	2441056.52	1971 Apr 15 0030:30	Petrel	-	P66K	0.000	SRC	SS	-	UCL/Rees	Auroral	WDCRF	SR13,511	-
1971-S235	2441057.73	1971 Apr 16 0525:10	Petrel	-	P62K	0.000	SRC	SS	-	SOTON/Rycroft,Bullough	Ionospheric	WDCRF	-	-
1971-S240	2441063.29	1971 Apr 21 1859:20	Petrel	-	P64K	0.000	SRC	SS	-	BIR/Wilson	Ionospheric	WDCRF	SR13,511	-
1971-S241	2441063.40	1971 Apr 21 2142:50	Petrel	-	P67K	0.000	SRC	SS	-	UCL/Rees	Auroral	WDCRF	SR13,511	-
1971-S242	2441063.46	1971 Apr 21 2303:30	Petrel	-	P63K	0.000	SRC	SS	-	SUSX/SOTON/Rothwell	Ionospheric	ssc.se	SR13,511	-
1971-S248	2441066.48	1971 Apr 24 2335:55	Petrel	-	P54K	0.000	SRC	SS	-	SUSX/SOTON/	Ionospheric	WDCRF	-	-
1971-S267	2441073.48	1971 May 1 2336:30	Petrel	-	P65K	0.000	SRC	SS	-	BIR/Wilson	Ionospheric	WDCRF	-	-
1971-S342	2441127.98	1971 Jun 25 1130	Petrel	-	P48H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1971-S346	2441129.32	1971 Jun 26 1944	Petrel	-	P120H	0.000	SRC	SS	-	RSRS/Hall	Ionos/Solar EUV	WDCRF	-	-
1971-S348	2441131.02	1971 Jun 28 1225	Petrel	-	P109H	0.000	SRC	SS	-	RSRS/Hall	Ionos/Solar EUV	WDCRF	-	-
1971-S367	2441147.38	1971 Jul 14 2100	Petrel	-	P79H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1971-S368	2441147.42	1971 Jul 14 2204	Petrel	-	P93H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1971-A77	2441208.38	1971 Sep 13 2114	Petrel	-	P74H	0.000	SRC	SF	U	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S468	2441217.03	1971 Sep 22 1241	Petrel	-	P121H	0.000	SRC	SS	-	RSRS/Hall	Iono-solar	WDCRF	-	-
1971-S473	2441219.23	1971 Sep 24 1726	Petrel	-	P122H	0.000	SRC	SS	-	RSRS/Hall	Iono-solar	WDCRF	-	-
1971-S480	2441222.99	1971 Sep 28 1148	Petrel	-	P49H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1971-S563	2441273.54	1971 Nov 18 0101	Petrel	-	P123S/C	0.000	SRC	SS	-	UCL/SUPA/Rees,Rahmat.	Aeronomy	WDCRF	-	-
1971-S573	2441280.55	1971 Nov 25 0111	Petrel	-	P124S/C	0.000	SRC	SS	-	UCL/SUPA/Rees,Rahmat.	Aeronomy	WDCRF	-	-
1971-S577	2441287.07	1971 Dec 1 1334	Petrel	-	P80H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S581	2441289.04	1971 Dec 3 1258	Petrel	-	P82H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S591	2441292.09	1971 Dec 6 1403	Petrel	-	P83H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S595	2441293.05	1971 Dec 7 1310	Petrel	-	P84H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1971-S600	2441296.02	1971 Dec 10 1222	Petrel	-	P119H	0.000	SRC	SS	-	BIR/Goodall	Ionospheric	WDCRF	PlanSpacSci22,1585	-
1972-S32	2441321.05	1972 Jan 4 1314	Petrel	-	P78T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric	WDCRF	-	-
1972-S34	2441323.05	1972 Jan 6 1314	Petrel	-	P95T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric	WDCRF	-	-
1972-S35	2441324.05	1972 Jan 7 1311	Petrel	-	P77T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric	WDCRF	-	-
1972-S38	2441331.26	1972 Jan 14 1813	Petrel	-	P89T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric	WDCRF	SR19,275	-
1972-S42	2441332.07	1972 Jan 15 1337	Petrel	-	P85H	0.000	SRC	SS	-	RSRS/Hall	Ionos/Solar X	WDCRF	-	-
1972-A07	2441334.73	1972 Jan 18 0535	Petrel	-	P88T/C	0.000	SRC	SF	U	PRL/SOTON/Rao,Rothwell	Ionospheric	WDCRF	JBIS26,46	-
1972-S49	2441339.03	1972 Jan 22 1244	Petrel	-	P107H	0.000	SRC	SS	-	RSRS/Hall	Ionos/Solar X	WDCRF	-	-
1972-S60	2441349.73	1972 Feb 2 0530	Petrel	-	P110T/C	0.000	SRC	SS	-	RSRS/PRL/Burrows,Sastry	Ionospheric	WDCRF	SR17,409	-
1972-S66	2441352.75	1972 Feb 5 0600	Petrel	-	P59T/C	0.000	SRC	SS	-	RSRS/PRL/Burrows,Sastry	Ionospheric	WDCRF	SR17,409	-
1972-S76	2441361.04	1972 Feb 13 1255	Petrel	-	P60T/C	0.000	SRC	SS	-	RSRS/PRL/Burrows,Sastry	Ionospheric	WDCRF	SR17,411	-
1972-S82	2441365.08	1972 Feb 17 1348	Petrel	-	P111H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A16	2441366.03	1972 Feb 18 1238	Petrel	-	P117H	0.000	SRC	SS	-	BIR/Goodall	Ionospheric	WDCRF	-	-
1972-S295	2441558.97	1972 Aug 29 1112	Petrel	-	P118H	0.000	SRC	SS	-	BIR/Goodall	Ionospheric	WDCRF	-	-
1972-S296	2441559.05	1972 Aug 29 1312	Petrel	-	P130H	0.000	SRC	SS	-	RSRS/Hall	Solar UV,X	WDCRF	-	-
1972-S297	2441560.42	1972 Aug 30 2202	Petrel	-	P75H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric/Aeron	WDCRF	-	-
1972-S300	2441560.50	1972 Aug 31 0002	Petrel	-	P108H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1972-S301	2441560.59	1972 Aug 31 0216	Petrel	-	P76H	0.000	SRC	SS	-	RSRS/Hall	Ionospheric	WDCRF	-	-
1972-S331	2441596.31	1972 Oct 5 1924:07	Petrel	-	P127A	0.000	SRC	SS	-	SOTON/BIR/Collin,D'Arcy	Auroral	AND	WDCRF	-
1972-S332	2441598.45	1972 Oct 7 2247:55	Petrel	-	P42A	0.000	SRC	SS	-	SOTON/BIR/Collin,D'Arcy	Auroral	AND	WDCRF	-
1972-S336	2441601.39	1972 Oct 10 2121:51	Petrel	-	P55A	0.000	SRC	SS	-	SOTON/Rycroft	Auroral	AND	WDCRF	-
1972-S358	2441612.33	1972 Oct 21 2000:50	Petrel	-	P126A	0.000	SRC	SS	-	SOTON/BIR/Collin,D'Arcy	Auroral	AND	WDCRF	-
1972-S361	2441614.30	1972 Oct 23 1905:21	Petrel	-	P125A	0.000	SRC	SS	-	MSSL/Basto	Auroral	AND	WDCRF	-
1972-S391	2441624.99	1972 Nov 3 1145:48	Petrel	-	P129A	0.000	SRC	SS	-	SOTON/Rycroft	Auroral	AND	WDCRF	-
1972-S396	2441630.46	1972 Nov 8 2256:24	Petrel	-	P41A	0.000	SRC	SS	-	SOTON/BIR/Collin,D'Arcy	Auroral	AND	WDCRF	-
1973-A86	2441682.50	1973	Petrel	-	D	0.000	MOD	AS	-	-	Target	JBIS28,245	-	-
1973-S73	2441733.05	1973 Feb 19 1317	Petrel	-	P116H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1973-S80	2441736.04	1973 Feb 22 1304	Petrel	-	P114H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	JATP42,307	-
1973-S82	2441737.08	1973 Feb 23 1348	Petrel	-	P113H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1973-S111	2441761.65	1973 Mar 20 0341	Petrel	-	P43H	0.000	SRC	SS	-	BIR/SOTON/Goodall,Roth.	Ionospheric	WDCRF	-	-
1973-S132	2441772.64	1973 Mar 31 0317	Petrel	-	P44H	0.000	SRC	SS	-	BIR/SOTON/Goodall,Roth.	Ionospheric	WDCRF	-	-
1973-S134	2441775.76	1973 Apr 3 0609	Petrel	-	P131H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	SFLT15,355	-
1973-S135	2441775.79	1973 Apr 3 0654	Petrel	-	P133H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S136	2441775.84	1973 Apr 3 0814	Petrel	-	P105H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S137	2441775.91	1973 Apr 3 0948	Petrel	-	P132H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S139	2441776.12	1973 Apr 3 1452	Petrel	-	P134H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S140	2441776.18	1973 Apr 3 1615	Petrel	-	P104H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S142	2441776.24	1973 Apr 3 1744	Petrel	-	P135H	0.000	SRC	SS	-	RSRS/Dickinson	Iono-solar	WDCRF	-	-
1973-S170	2441821.97	1973 May 19 1111	Petrel	-	P56H	0.000	SRC	SS	-	BRIS/Hillier	XR Astronomy	WDCRF	-	-
1973-S213	2441863.00	1973 Jun 29 1159	Petrel	-	P162H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1973-S226	2441866.02	1973 Jul 2 1230	Petrel	-	P163H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	JATP42,307	-
1973-S246	2441887.02	1973 Jul 23 1223	Petrel	-	P45H	0.000	SRC	SS	-	BRIS/Hillier	XR Astronomy	WDCRF	-	-
1973-S293	2441928.50	1973 Sep 3 0003	Petrel	-	P97H	0.000	SRC	SS	-	QUB/Greer	Atmospheric	WDCRF	-	-
1973-S294	2441928.59	1973 Sep 3 0204	Petrel	-	P98H	0.000	SRC	SS	-	QUB/Greer	Atmospheric	WDCRF	-	-
1973-S297	2441931.99	1973 Sep 6 1139	Petrel	-	P165H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	JATP42,307	-
1973-S300	2441935.50	1973 Sep 10 0002	Petrel	-	P102H	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1973-S301	2441935.68	1973 Sep 10 0418	Petrel	-	P103H	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1973-S305	2441940.69	1973 Sep 15 0436	Petrel	-	P106H	0.000	SRC	SS	-	SOTON/SHEF/Rycroft,Bull.	Ionospheric	WDCRF	-	-
1973-S345	2441969.50	1973 Oct 14 0001:20	Petrel	-	P100A	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	AND	-
1973-S346	2441972.32	1973 Oct 16 1941:39	Petrel	-	P141A	0.000	SRC	SS	-	SOTON/Jenkins	Auroral	WDCRF	AND	-
1973-S349	2441973.23	1973 Oct 17 1728:10	Petrel	-	P101A	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	AND	-
1973-M13	2441986.29	1973 Oct 30 1854:19	Petrel	-	P147A	0.000	SRC	SF	U	SOTON/Jenkins	Auroral	WDCRF	AND	-
1973-S370	2441986.30	1973 Oct 30 1915:54	Petrel	-	P142A	0.000	SRC	SS	-	RSRS/Mason	Auroral	WDCRF	AND	-
1973-S371	2441986.34	1973 Oct 30 2004:06	Petrel	-	P143A	0.000	SRC	SS	-	RSRS/Mason	Auroral	WDCRF	AND	-
1973-S390	2442003.46	1973 Nov 16 2304:26	Petrel	-	P150A	0.000	SRC	SS	-	BIR/Wilson	Ionospheric	WDCRF	AND	-
1973-S391	2442003.49	1973 Nov 16 2342:50	Petrel	-	P145A	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	AND	-
1973-S392	2442003.52	1973 Nov 17 0023:13	Petrel	-	P149A	0.000	SRC	SS	-	BIR/Wilson,Goodall	Auroral	WDCRF	AND	-
1973-S393	2442003.54	1973 Nov 17 0101:20	Petrel	-	P146A	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	AND	-
1973-S394	2442003.56	1973 Nov 17 0122:00	Petrel	-	P148A	0.000	SRC	SS	-	BIR/Goodall	Auroral	WDCRF	AND	-
1973-S415	2442019.09	1973 Dec 2 1410:00	Petrel	-	P181A	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric	WDCRF	AND	-
1973-S427	2442022.80	1973 Dec 6 0711:00	Petrel	-	P96A	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric	WDCRF	AND	-
1973-S428	2442022.89	1973 Dec 6 0918:43	Petrel	-	P71A	0.000	SRC	SS	-	SOTON/SHEF/Rycroft,Bull.	Ionospheric	WDCRF	AND	-
1974-S156	2442139.44	1974 Apr 1 2237	Petrel	-	P174H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	SR16,301	WDCRF	-
1974-S157	2442139.46	1974 Apr 1 2256	Petrel	-	P178H	0.000	SRC	SS	-	UCW/Williams	Atmospheric	WDCRF	-	-
1974-S161	2442140.73	1974 Apr 3 0525	Petrel	-	P173H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	SR16,301	WDCRF	-
1974-S162	2442140.74	1974 Apr 3 0540	Petrel	-	P177H	0.000	SRC	SS	-	UCW/Williams	Atmospheric	WDCRF	-	-
1974-S185	2442168.20	1974 Apr 30 1655	Petrel	-	P72H	0.000	SRC	SS	-	SHEF/Wooliscroft	Ionospheric	WDCRF	JBIS27.481	-
1974-S291	2442294.48	1974 Sep 3 2325	Petrel	-	P99H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1974-S293	2442297.50	1974 Sep 6 2359	Petrel	?	P94H	0.000	SRC	SS	-	SOTON/Rothwell	Ionospheric	WDCRF	-	-
1974-S297	2442301.96	1974 Sep 11 1102	Petrel	-	P90T/C	0.000	SRC	SS	-	MSSL/Norman	Atmospheric	WDCRF	-	-
1974-S326	2442315.47	1974 Sep 24 2317	Petrel	-	P50H	0.000	SRC	SS	-	QUB/Byrne	Atmospheric	WDCRF	-	-
1974-S328	2442317.59	1974 Sep 27 0209	Petrel	-	P57H	0.000	SRC	SS	-	QUB/Byrne	Atmospheric	WDCRF	-	-
1974-S330	2442318.98	1974 Sep 28 1132	Petrel	-	P161H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1974-S393	2442380.93	1974 Nov 29 1017	Petrel	-	P182H	0.000	SRC	SS	-	MPE/Krankowsky	Ionos	WDCRF	Nature261,118	-
1974-S394	2442381.00	1974 Nov 29 1153	Petrel	-	P175H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	SR16,301	WDCRF	-
1974-S395	2442381.01	1974 Nov 29 1209	Petrel	-	P179H	0.000	SRC	SS	-	UCW/Williams	Atmospheric	WDCRF	-	-
1974-S399	2442384.02	1974 Dec 2 1236	Petrel	-	P91H	0.000	SRC	SS	-	MSSL/Norman	Atmospheric	WDCRF	-	-
1974-S404	2442389.36	1974 Dec 7 2037	Petrel	-	P183H	0.000	SRC	SS	-	MPE/Krankowsky	Atmospheric	WDCRF	-	-
1974-S405	2442389.37	1974 Dec 7 2058	Petrel	-	P180H	0.000	SRC	SS	-	UCW/Williams	Aeron/Ionos	WDCRF	-	-
1974-S406	2442389.43	1974 Dec 7 2226	Petrel	-	P176H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1974-S407	2442389.45	1974 Dec 7 2253	Petrel	-	P128H	0.000	SRC	SS	-	QUB/Greer	Atmospheric	WDCRF	-	-
1974-S419	2442398.97	1974 Dec 17 1112	Petrel	-	P86G	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1974-S420	2442399.03	1974 Dec 17 1237	Petrel	-	P87G	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1974-S422	2442399.97	1974 Dec 18 1115	Petrel	-	P166G	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1974-S423	2442400.03	1974 Dec 18 1245	Petrel	-	P167G	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1975-S46	2442438.03	1975 Jan 25 1240	Petrel	-	INTA MPGFD-7501	0.000	INTA	SU	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1975-S53	2442443.01	1975 Jan 30 1215	Petrel	-	INTA MPGFD-7502	0.000	INTA	SU	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1975-S64	2442452.52	1975 Feb 9 0024	Petrel	-	P154T/C	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	-	-
1975-S65	2442452.52	1975 Feb 9 0029	Petrel	-	P158T/C	0.000	SRC	SS	-	PRL/UCL/Sastry,Rees	Ionospheric	SR17,515	WDCRF	-
1975-S66	2442452.73	1975 Feb 9 0530	Petrel	-	P137T/C	0.000	SRC	SS	-	PRL/BIR/Wilson	Ionos	WDCRF	-	-
1975-S63	2442452.73	1975 Feb 9 0535	Petrel	-	P155T/C Electrojet	0.000	SRC	SS	-	UCL/Rees	Atmospheric	SR16,407	-	-
1975-S68	2442452.80	1975 Feb 9 0708	Petrel	-	P159T/C	0.000	SRC	SS	-	PRL/UCL/Sastry,Rees	Ionospheric	WDCRF	-	-
1975-S75	2442462.86	1975 Feb 19 0837	Petrel	-	P156T/C	0.000	SRC	SS	-	UCL/Rees	Atmospheric	SR16,407	-	-
1975-S76	2442462.86	1975 Feb 19 0842	Petrel	-	P138T/C	0.000	SRC	SS	-	BIR/Wilson	Ionos	SR16,407	-	-
1975-S78	2442463.06	1975 Feb 19 1332	Petrel	-	P157T/C	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	SR16,407	-
1975-S106	2442487.19	1975 Mar 15 1634	Petrel	-	P70T/C	0.000	SRC	SS	-	PRL/SOTON/Gupta,Rothwell	Ionospheric	WDCRF	SR19,275	-
1975-S107	2442487.50	1975 Mar 16 0000	Petrel	-	P184T/C	0.000	SRC	SS	-	PRL/SOTON/Gupta,Rothwell	Ionospheric	WDCRF	-	-
1975-S110	2442490.89	1975 Mar 19 0921	Petrel	-	P185T/C	0.000	SRC	SS	-	PRL/SOTON/Gupta,Rothwell	Ionospheric	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-S112	2442495.50	1975 Mar 24 0006	Petrel	-	P160T/C	0.000	SRC	SS	-	PRL/Desai	Fields	WDCRF	-	-
1975-S142	2442536.29	1975 May 3 1900	Petrel	-	P164H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	SR17,279	-
1975-S144	2442567.99	1975 Jun 4 1142:00	Petrel	-	INTA MPGFD-7503	0.000	INTA?	SU	-	MPAE/Cisneros,Rose	Ionos	ElAren	WDCRF [May 4]	-
1975-S147	2442570.97	1975 Jun 7 1118:00	Petrel	-	INTA MPGFD-7504	0.000	INTA?	SU	-	MPAE/Cisneros,Rose	Ionos	ElAren	WDCRF [May 7]	1218/JGR
1975-S269	2442664.52	1975 Sep 9 0030	Petrel	-	P168H	0.000	SRC	SS	-	QUB/	Atmospheric	AnnGeo2,487	Massey	-
1975-S268	2442664.54	1975 Sep 9 0056	Petrel	-	P136H	0.000	SRC	SS	-	RSRS/	Atmospheric	AnnGeo2,487	Massey	-
1975-S270	2442664.50	1975 Sep 9	Petrel	-	P153H	0.000	SRC	SS	-	UCW/	Ionospheric	Massey	-	-
1975-S328	2442745.02	1975 Nov 28 1228	Petrel	-	P152H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	JATP42,307	-
1975-S329	2442745.04	1975 Nov 28 1256	Petrel	-	P151H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1976-S45	2442782.07	1976 Jan 4 1340:00	Petrel	-	INTA MPGA-7601	0.000	DLR/INTA	SU	-	MPAE/INTA/Cisneros,Rose	Ionos	WDCRF	-	-
1976-S49	2442782.17	1976 Jan 4 1600	Petrel	-	INTA UCLP-7601	0.000	INTA	SS	-	UCL/Rees	Aeron	WDCRF	Massey	-
1976-M02	2442798.07	1976 Jan 20 1340:00	Petrel	-	INTA MPGAFD-7602	0.000	DLR/INTA	SS	-	MPAE/INTA/Cisneros,Rose	Ionos	WDCRF	-	-
1976-M04	2442799.07	1976 Jan 21 1340:00	Petrel	-	INTA MPGAFD-7603	0.000	DLR/INTA	SS	-	MPAE/INTA/Cisneros,Rose	Aeron/Ionos	WDCRF	-	-
1976-S68	2442799.16	1976 Jan 21 1555	Petrel	-	INTA UCLP-7602	0.000	INTA/SRC	SS	-	UCL/Rees	Aeron	WDCRF	Massey	-
1976-S69	2442799.26	1976 Jan 21 1817	Petrel	-	INTA UCLP-7603	0.000	INTA/SRC	SS	-	UCL/Rees	Aeron	WDCRF	Massey	-
1976-S97	2442817.10	1976 Feb 8 1426:00	Petrel	-	INTA MPGAFD-7604	0.000	DLR/INTA	SS	-	MPAE/INTA/Cisneros,Rose	Aeron/Ionos	WDCRF	-	-
1976-S176	2442904.99	1976 May 6 1144	Petrel	-	P186H	0.000	SRC	SS	-	MSSL/Norman	Ionospheric	WDCRF	-	-
1976-S177	2442905.01	1976 May 6 1221	Petrel	-	P115H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1976-S393	2442907.18	1976 May 8 1618	Petrel	-	INTA MPGAFD-7605	0.000	DLR/INTA	SS	-	MPAE/INTA/Cisneros,Rose	Aeron/Ionos	ElAren	-	-
1976-S394	2442914.17	1976 May 15 1608	Petrel	-	INTA MPGAFD-7606	0.000	DLR/INTA	SS	-	MPAE/INTA/Cisneros,Rose	Aeron/Ionos	ElAren	-	-
1976-S195	2442933.68	1976 Jun 4 0423	Petrel	-	P187H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1976-S196	2442933.69	1976 Jun 4 0439	Petrel	-	P144H	0.000	SRC	SS	-	SHEF/Bullough	Ionospheric	WDCRF	-	-
1976-S224	2442964.99	1976 Jul 5 1144	Petrel	-	P188H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1977-S61	2443182.40	1977 Feb 7 2140	Petrel	-	MOP1	0.000	UKMO	SS	-	UKMO/UCW/Williams	Atmospheric	WDCRF	-	-
1977-A09	2443182.42	1977 Feb 7 2205	Petrel	-	P195H	0.000	SRC	SS	-	MPE/Krankowsky	Aeron/Ionos	WDCRF	-	-
1977-S62	2443182.46	1977 Feb 7 2309	Petrel	-	P192H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1977-S63	2443182.48	1977 Feb 7 2326	Petrel	-	P193H	0.000	SRC	SS	-	UCW/Williams	Ionos/Plasma	WDCRF	-	-
1977-S70	2443186.02	1977 Feb 11 1233	Petrel	-	P194H	0.000	SRC	SS	-	UCW/?	Ionos	WDCRF	-	-
1977-S71	2443186.05	1977 Feb 11 1318	Petrel	-	P191H	0.000	SRC	SS	-	UCW/?	Ionos	WDCRF	-	-
1977-S72	2443186.08	1977 Feb 11 1359	Petrel	-	P189H	0.000	SRC	SS	-	RSRS/	Atmospheric	WDCRF	-	-
1977-S206	2443321.99	1977 Jun 27 1148	Petrel	-	P196H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1977-S207	2443322.00	1977 Jun 27 1206	Petrel	-	P190H	0.000	SRC	SS	-	UCW/Williams	Atmospheric	WDCRF	JATP42,307	-
1977-S261	2443433.44	1977 Oct 16 2233:36	Petrel 2	-	P207A	0.000	SRC	SS	-	UCL/Rees	Atmospheric	WDCRF	AND	-
1978-S57	2443542.04	1978 Feb 2 1304	Petrel	-	P199H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1978-S58	2443542.06	1978 Feb 2 1333	Petrel	-	P203H	0.000	SRC	SS	-	RSRS/MPE/Krankowsky	Ionospheric	WDCRF	-	-
1978-S59	2443542.08	1978 Feb 2 1356	Petrel	-	P112H	0.000	SRC	SS	-	RSRS/UCW/Williams	Ionospheric/Solar UV	WDCRF	-	-
1978-S60	2443545.51	1978 Feb 6 0020	Petrel	-	P200H	0.000	SRC	SS	-	RSRS/Dickinson	Atmospheric	WDCRF	-	-
1978-S61	2443545.54	1978 Feb 6 0100	Petrel	-	P202H	0.000	SRC	SS	-	RSRS/UCW/Williams	Ionospheric	WDCRF	-	-
1978-S63	2443546.52	1978 Feb 7 0030	Petrel	-	P204H	0.000	SRC	SS	-	RSRS/MPE/Krankowsky	Ionospheric	WDCRF	-	-
1978-S64	2443546.54	1978 Feb 7 0101	Petrel	-	P198H	0.000	SRC	SS	-	RSRS/	Atmospheric	WDCRF	-	-
1978-S68	2443552.50	1978 Feb 13	Petrel	-	MOP4	0.000	UKMO	SS	-	UKMO/	Atmospheric	Massey	-	-
1978-S69	2443552.50	1978 Feb 13	Petrel	-	MOP2	0.000	UKMO	SS	-	UKMO/	Atmospheric	Massey	-	-
1978-S192	2443720.45	1978 Jul 30 2241:18	Petrel	-	P205K	0.000	SRC	SS	-	RSRS/SSC/	Aeronomy	ssc.se	ESA-SP152	-
1978-S261	2443720.47	1978 Jul 30 2312:30	Petrel	-	MPI1	0.000	MPIK	SS	-	MPIK/	Aeronomy?	ssc.se	-	-
1978-S262	2443733.52	1978 Aug 13 0026:57	Petrel	-	MPI2	0.000	MPIK	SS	-	MPIK/	Aeronomy?	ssc.se	-	-
1978-S196	2443733.54	1978 Aug 13 0058:15	Petrel	-	P206K	0.000	SRC	SS	-	RSRS/SSC/Dickinson	Aeronomy	WDCRF	-	-
1979-S44	2443899.38	1979 Jan 25 2107:33	Petrel 2	-	P216K	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	ESA-SP152-317	-	-
1979-S48	2443901.34	1979 Jan 27 2004:55	Petrel 2	-	P215K	0.000	SRC	SS	-	RSRS/Bryant	Ionospheric	WDCRF/ESRLV	-	-
1979-S107	2443961.15	1979 Mar 28 1538:24	Petrel 2	-	P208A	0.000	SRC	SS	-	SHEF/Woolliscroft	Ionospheric	WDCRF	AND	-
1979-S131	2443989.02	1979 Apr 25 1224	Petrel	-	P201H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1979-S168	2444074.50	1979 Jul 20	Petrel	-	P211H	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	Massey	-	-
1979-S169	2444074.50	1979 Jul 20	Petrel	-	P210H	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	Massey	-	-
1979-S170	2444074.50	1979 Jul 20	Petrel	-	P209H	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	Massey	-	-
1979-A41	2444140.73	1979 Sep 24 0532	Petrel 2	-	P217E	0.000	SRC	SF	U	SUSX/Martelli	Ionospheric	WDCRF	-	-
1979-S295	2444148.58	1979 Oct 2 0200	Petrel	-	MOP5?	0.000	UKMO	SS	-	UKMO/Vaughan	Ozone	Nature296,133	-	-
1979-S296	2444148.75	1979 Oct 2 0600	Petrel	-	MOP6?	0.000	UKMO	SS	-	UKMO/Vaughan	Ozone	Nature296,133	-	-
1979-S297	2444148.90	1979 Oct 2 0930	Petrel	-	MOP7?	0.000	UKMO	SS	-	UKMO/Vaughan	Ozone	Nature296,133	-	-
1979-S298	2444149.15	1979 Oct 2 1530	Petrel	-	MOP8?	0.000	UKMO	SS	-	UKMO/Vaughan	Ozone	Nature296,133	-	-
1979-S216	2444150.28	1979 Oct 3 1842	Petrel 2	-	P218E	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric	WDCRF	-	-
1980-S146	2444447.48	1980 Jul 26 2338	Petrel 2	-	P223K	0.000	SRC	SS	-	SHEF/	Ionospheric	ssc.se	Massey	-
1980-S194	2444554.51	1980 Nov 11 0012:00	Petrel 2	-	P221K	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	ssc.se	Massey	-
1980-S200	2444559.63	1980 Nov 16 0314:18	Petrel 2	-	P220K	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	ssc.se	-	-
1980-S217	2444574.49	1980 Nov 30 2345:30	Petrel 2	-	P222K	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	ssc.se	Massey	-
1981-S63	2444643.34	1981 Feb 7 2013:45	Petrel 2	-	P219K	0.000	SRC	SS	-	RSRS/UCW/	Aeronomy	ssc.se	-	-
1981-S174	2444940.16	1981 Dec 1 1550:00	Petrel	-	P224K	0.000	SRC	SS	-	UCL/	Aeronomy	ssc.se	Massey	-
1981-S181	2444948.22	1981 Dec 9 1717:00	Petrel 2	-	P225K	0.000	SRC	SS	-	UCL/	Aeronomy	ssc.se	Massey	-
1981-S185	2444955.09	1981 Dec 16 1410:00	Petrel	-	P226K	0.000	SRC	SS	-	UCL/	Aeronomy	ssc.se	Massey	-
1981-S186	2444958.33	1981 Dec 19 2000	Petrel	-	INTA FOCCA 1-1/81	0.000	INTA	SS	-	IAA/	Aeron	ElAren	udit.iaa.csic.es	-
1982-S79	2445044.25	1982 Mar 15 1800	Petrel	-	INTA FOCCA 1-1/82	0.000	INTA	SF	U	IAA/	Aeron	ElAren	udit.iaa.csic.es	-
1982-S87	2445052.39	1982 Mar 23 2127	Petrel	-	P230H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S88	2445052.41	1982 Mar 23 2148	Petrel	-	P232H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S89	2445052.42	1982 Mar 23 2210	Petrel	-	P227H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S90	2445052.46	1982 Mar 23 2257:00	Petrel	-	P229H	0.000	SRC	SU	-	QUB/Greer	Aeron	WDCRF	-	-
1982-S91	2445052.47	1982 Mar 23 2312	Petrel	-	P231H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S92	2445052.48	1982 Mar 23 2328	Petrel	-	P228H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S93	2445052.50	1982 Mar 23 2355	Petrel	-	P234H	0.000	SRC	SS	-	QUB/Greer	Aeronomy	WDCRF	-	-
1982-S149	2445185.50	1982 Aug 4 0003	Petrel	-	P235K	0.000	SRC	SS	-	RAL/Dickinson	Aeronomy	ssc.se	WDCRF	-
1982-S155	2445193.48	1982 Aug 11 2330	Petrel	-	P214K	0.000	SRC	SS	-	MPIK/RAL/Dickinson	Aeronomy	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A125	2436471.22	1958 Sep 24 1718	Polaris AX	-	AX-1	-	-	-	-	CC	LC25A	-	-	12	1?	-
1958-A135	2436491.50	1958 Oct 15	Polaris AX	-	AX-2	-	-	-	-	CC	LC25A	-	-	0	0	-
1958-A171	2436568.14	1958 Dec 30 1528	Polaris AX	-	AX-3	-	-	-	-	CC	LC25A	-	-	1?	1?	-
1959-M03	2436588.16	1959 Jan 19 1552	Polaris AX	-	AX-4	-	-	-	-	CC	LC25A	-	-	10?	-	-
1959-A36	2436627.30	1959 Feb 27 1916	Polaris AX	-	AX-5	-	-	-	-	CC	LC25A	-	-	2?	-	-
1959-S52	2436679.15	1959 Apr 20 1534	Polaris AX	-	AX-6	-	-	-	-	CC	LC25A	-	-	200?	500?	-
1959-S65	2436697.31	1959 May 8 1928	Polaris AX	-	AX-8	-	-	-	-	CC	LC25A	-	-	500?	1306	-
1959-A78	2436707.47	1959 May 18 2316	Polaris AX	-	AX-7	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1959-A99	2436732.29	1959 Jun 12 1857	Polaris AX	-	AX-10	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1959-S98	2436749.15	1959 Jun 29 1542	Polaris AX	-	AX-9	-	-	-	-	CC	LC25A	-	-	500?	1304	-
1959-A117	2436765.21	1959 Jul 15 1659	Polaris AX	-	AX-11	-	-	-	-	CC	LC25A	-	-	2?	2?	-
1959-A132	2436787.37	1959 Aug 6 2048	Polaris AX	-	AX-15	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1959-S140	2436795.39	1959 Aug 14 2124	Polaris AX	-	AX-13	SMS test	-	-	-	CC	LC25B	-	-	500?	1278	-
1959-A144	2436806.19	1959 Aug 25 1633	Polaris AX	-	AX-18	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1959-S151	2436808.20	1959 Aug 27 1652	Polaris AX	-	AX-22	-	-	-	EAG-154	ETR	SLBM	-	-	500?	1317	-
1959-S182	2436833.27	1959 Sep 21 1829	Polaris A1	-	A1X-1	-	-	-	-	CC	LC29A	-	-	500?	1746	-
1959-A166	2436840.21	1959 Sep 28 1706	Polaris AX	-	AX-14	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1959-A169	2436844.26	1959 Oct 2 1811	Polaris AX	-	AX-20	-	-	-	-	CC	LC25A	-	-	2?	2?	-
1959-A173	2436854.26	1959 Oct 12 1818	Polaris A1	-	A1X-2	-	-	-	-	CC	LC29A	-	-	1?	0	-
1959-S248	2436893.22	1959 Nov 20 1711	Polaris A1	-	A1X-3	-	-	-	-	CC	LC29A	-	-	500?	1696	-
1959-S265	2436910.34	1959 Dec 7 2013	Polaris A1	-	A1X-4	-	-	-	-	CC	LC29A	-	-	500?	1700?	-
1959-S268	2436918.70	1959 Dec 16 0450	Polaris A1	-	A1X-6	-	-	-	-	CC	LC29A	-	-	100?	50?	-
1959-A210	2436926.34	1959 Dec 23 2007	Polaris A1	-	A1X-5	-	-	-	-	CC	LC25B	-	-	1?	2?	-
1960-S07	2436941.62	1960 Jan 8 0252	Polaris A1	-	A1X-7	Inertial test	-	-	-	CC	LC29A	-	-	500?	1670	-
1960-S09	2436947.38	1960 Jan 13 2107	Polaris A1	-	A1X-8	-	-	-	-	CC	LC29A	-	-	500?	1733	-
1960-S16	2436954.36	1960 Jan 20 2034	Polaris A1	-	A1X-9	-	-	-	-	CC	LC29A	-	-	500?	1574	-
1960-S23	2436961.38	1960 Jan 27 2102	Polaris A1	-	A1X-10	-	-	-	-	CC	LC29A	-	-	500?	1667?	-
1960-S30	2436969.43	1960 Feb 4 2219	Polaris A1	-	A1X-12	-	-	-	-	CC	LC29A	-	-	500?	1667?	-
1960-S33	2436974.50	1960 Feb 10	Polaris A1	-	A1X-11	-	-	-	-	CC	LC29A	-	-	500?	1682	-
1960-A55	2436990.50	1960 Feb 26	Polaris A1	-	A1X-13	-	-	-	-	CC	LC29A	-	-	10?	20?	-
1960-S50	2437002.50	1960 Mar 9	Polaris A1	-	A1X-14	-	-	-	-	CC	LC25A	-	-	500?	1819	-
1960-S55	2437011.50	1960 Mar 18	Polaris A1	-	A1X-15	-	-	-	-	CC	LC25B	-	-	500?	1830	-
1960-S62	2437018.50	1960 Mar 25	Polaris A1	-	A1X-16	-	-	-	-	CC	LC25B	-	-	500?	1746	-
1960-S67	2437023.54	1960 Mar 30 0103	Polaris A1	-	A1X-18	Integrated test	-	-	EAG-154	ETR	SLBM	-	-	300?	1463	-
1960-A98	2437039.43	1960 Apr 14 2221	Polaris A1	-	STV-2A-2	Underwater test	-	-	-	SCL	PU	-	-	1	-	-
1960-M05	2437042.50	1960 Apr 18	Polaris A1	-	A1X-19	-	-	-	EAG-154	ETR	SLBM	-	-	50?	30?	-
1960-S83	2437050.55	1960 Apr 26 0113	Polaris A1	-	A1X-22	-	-	-	-	CC	LC29A	-	-	500?	1924	-
1960-S87	2437054.49	1960 Apr 29 2345	Polaris A1	-	A1X-23	-	-	-	-	CC	LC29A	-	-	500?	1839	-
1960-S88	2437054.66	1960 Apr 30 0345	Polaris A1	-	A1X-25	-	-	-	-	CC	LC25A	-	-	500?	1859	-
1960-S98	2437073.27	1960 May 18 1834	Polaris A1	-	A1X-30	-	-	-	-	CC	LC25B	-	-	500?	1774	-
1960-S101	2437078.40	1960 May 23 2139	Polaris A1	-	A1X-17	-	-	-	EAG-154	ETR	SLBM	-	-	500?	1891	-
1960-M15	2437093.16	1960 Jun 7 1554	Polaris A1	-	A1X-27	-	-	-	-	CC	LC25A	-	-	50?	20?	-
1960-S136	2437108.60	1960 Jun 23 0222	Polaris A1	-	A1X-32	-	-	-	EAG-154	ETR	SLBM	-	-	500?	1732	-
1960-S140	2437108.74	1960 Jun 23 0552	Polaris A1	-	A1X-34	-	-	-	-	CC	LC25B	-	-	500?	1778	-
1960-A159	2437115.50	1960 Jun 30	Polaris A1	-	A1X	-	-	-	-	SCL	PU	-	-	10?	10?	-
1960-A161	2437122.16	1960 Jul 6 1555	Polaris A1	-	A1X-40	-	-	-	-	CC	LC25A	-	-	10?	-	-
1960-A162	2437122.50	1960 Jul 7	Polaris A1	-	A1X-39	-	-	-	EAG-154	ETR	SLBM	-	-	0?	0	-
1960-S176	2437130.76	1960 Jul 15 0610	Polaris A1	-	A1X-42	-	-	-	-	CC	LC25B	-	-	500?	1774	BOA
1960-S181	2437135.17	1960 Jul 19 1600	Polaris A1	-	A1X-41	-	-	-	-	CC	LC25A	-	-	500?	1909	BOA
1960-S184	2437136.24	1960 Jul 20 1739	Polaris A1	-	A1E-1 (A1XP-5)	-	-	-	SSBN-598	ETR	SLBM	-	-	500?	1852	BOA
1960-S185	2437136.36	1960 Jul 20 2032	Polaris A1	-	A1E-2 (A1XP-8)	-	-	-	SSBN-598	ETR	SLBM	-	-	500?	1852	BOA
1960-S206	2437146.35	1960 Jul 30 2020	Polaris A1	-	A1E-4 (A1XP-4)	-	-	-	SSBN-598	ETR	SLBM	-	-	500?	1846	BOA
1960-A183	2437148.22	1960 Aug 1 1710	Polaris A1	-	A1E-3 (A1EP-2)	-	-	-	SSBN-598	ETR	SLBM	-	-	1?	1	-
1960-A185	2437149.54	1960 Aug 3 0058	Polaris A1	-	A1X-37	-	-	-	-	CC	LC25B	-	-	500?	1771	BOA
1960-S219	2437151.23	1960 Aug 4 1728	Polaris A1	-	A1X-44	-	-	-	-	CC	LC25A	-	-	500?	2032	BOA
1960-S235	2437159.27	1960 Aug 12 1828	Polaris A1	-	A1X-47	-	-	-	-	CC	LC25A	-	-	500?	1776	BOA
1960-S242	2437165.64	1960 Aug 19 0320	Polaris A1	-	A1X-43	-	-	-	-	CC	LC25A	-	-	500?	1939	BOA
1960-A209	2437171.36	1960 Aug 24 2043	Polaris A1	-	A1	-	-	-	-	SCL	PU	-	-	2?	-	-
1960-S263	2437180.12	1960 Sep 2 1500	Polaris A1	-	A1X-45	Sandia warhead	-	-	-	CC	LC25A	-	-	500?	1971	BOA
1960-A219	2437191.25	1960 Sep 13 1755	Polaris A1	-	A1XE-5 (A1XP-7)	-	-	-	SSBN-599	ETR	SLBM	-	-	0	0	-
1960-S269	2437193.39	1960 Sep 15 2128	Polaris A1	-	A1XE-6 (A1FP-1)	-	-	-	SSBN-599	ETR	SLBM	-	-	500?	1852	BOA
1960-A226	2437200.42	1960 Sep 22 2205	Polaris A1	-	A1XE-7 (A1FP-3)	-	-	-	SSBN-599	ETR	SLBM	-	-	0	0	-
1960-A227	2437200.55	1960 Sep 23 0105?	Polaris A1	-	A1XE-8 (A1FP-4)	-	-	-	SSBN-599	ETR	SLBM	-	-	0	0	-
1960-S282	2437201.58	1960 Sep 24 0202	Polaris A1	-	A1X-48	Medium Range Test	-	-	-	CC	LC25A	-	-	500?	1230	GTI
1960-S307	2437213.17	1960 Oct 5 1604	Polaris A1	-	A1X-49	-	-	-	-	CC	LC25A	-	-	500?	2024	BOA
1960-S313	2437217.50	1960 Oct 10	Polaris A1	-	A1X-53	Medium Range Test	-	-	-	CC	LC25A	-	-	500?	1231	GTI
1960-S320	2437222.50	1960 Oct 15	Polaris A1	-	A1FP-5 (A1E-9)	Op. Test	-	-	SSBN-599	ETR	500NM	-	-	500?	-	-
1960-S321	2437222.50	1960 Oct 15	Polaris A1	-	A1FP-6 (A1E-10)	-	-	-	SSBN-599	ETR	500NM	-	-	500?	-	-
1960-S322	2437223.50	1960 Oct 16	Polaris A1	-	A1FP-7 (A1E-11)	-	-	-	SSBN-599	ETR	500NM	-	-	500?	-	-
1960-S325	2437225.50	1960 Oct 18	Polaris A1	-	A1FP-8 (A1E-12)	-	-	-	SSBN-599	ETR	500NM	-	-	500?	-	-
1960-S351	2437246.29	1960 Nov 7 1900	Polaris A1	-	A1X-46	-	-	-	-	CC	LC25A	-	-	500?	1778	BOA
1960-S353	2437249.18	1960 Nov 10 1622	Polaris A2	-	A2X-1	-	-	-	-	CC	LC25A	-	-	1000?	2619	BOA
1960-A265	2437256.29	1960 Nov 17 1900	Polaris A1	-	A1X-52	-	-	-	-	CC	LC25A	-	-	10?	10?	-
1960-S393	2437273.50	1960 Dec 5	Polaris A2	-	A2X-2	-	-	-	-	CC	LC25A	-	-	1000?	2535	BOA
1960-S417	2437291.27	1960 Dec 22 1834	Polaris A1	-	A1E-13 (A1P-19)	-	-	-	SSBN-601	ETR	SLBM	-	-	500?	2037	-
1961-S13	2437310.22	1961 Jan 10 1715	Polaris A2	-	A2X-3	-	-	-	-	CC	LC29A	-	-	1000?	2567	BOA
1961-A18	2437311.28	1961 Jan 11 1840	Polaris A1	-	A1E-15 (A1P-23)	-	-	-	SSBN-601	ETR	SLBM	-	-	20	10?	-
1961-A21	2437314.27	1961 Jan 14 1834	Polaris A1	-	A1E-14 (A1P-24)	-	-	-	SSBN-601	ETR	SLBM	-	-	20	10?	-
1961-A44	2437337.40	1961 Feb 6 2140	Polaris A2	-	A2X-6	-	-	-	-	CC	LC25A	-	-	0	1	-
1961-S63	2437360.26	1961 Mar 1 1819	Polaris A2	-	A2X-7	-	-	-	EAG-154	ETR	SLBM	-	-	1000?	2567	BOA
1961-S76	2437367.50	1961 Mar 9	Polaris A2	-	A2X-8	-	-	-	EAG-154	ETR	SLBM	-	-	1000?	2682	BOA
1961-S82	2437374.23	1961 Mar 15 1730	Polaris A2	-	A2X-10	-	-	-	-	CC	LC29A	-	-	1000?	2596	-
1961-A80	2437382.18	1961 Mar 23 1625	Polaris A1	-	A1E-16	-	-	-	SSBN-600	ETR	200NM	-	-	30?	30?	-
1961-S86	2437382.31	1961 Mar 23 1925	Polaris A1	-	A1E-17	-	-	-	SSBN-600	ETR	200NM	-	-	500?	2037?	Antigua
1961-A81	2437382.45	1961 Mar 23 2241	Polaris A1	-	A1E-18 (A1P-39)	-	-	-	SSBN-600	ETR	200NM	-	-	10?	10?	-
1961-S105	2437395.50	1961 Apr 6	Polaris A1	-	A1E-19 (A1P-65)	-	-	-	SSBN-600	ETR	200NM	-	-	500?	2037?	Antigua

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-M09	2437401.15	1961 Apr 11 1540	Polaris A2	-	A2X-12	-	-	-	-	CC	LC29A	-	-	50?	228	-
1961-S113	2437409.42	1961 Apr 19 2204	Polaris A1	-	A1E-20	-	-	-	SSBN-601	ETR	SLBM?	-	-	500?	2000?	-
1961-S131	2437421.21	1961 May 1 1700	Polaris A2	-	A2X-16	-	-	-	-	CC	LC29A	-	-	1000?	2411	Antigua
1961-S133	2437423.21	1961 May 3 1700	Polaris A1	-	A1E-22	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S138	2437428.22	1961 May 8 1710	Polaris A2	-	A2X-19	-	-	-	-	CC	LC29A	-	-	1000?	2413	Antigua
1961-S147	2437436.50	1961 May 17	Polaris A1	-	A1E-26 (A1P-70)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	1300?	-
1961-S150	2437436.50	1961 May 17	Polaris A1	-	A1E-27 (A1P-55)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S148	2437436.50	1961 May 17	Polaris A1	-	A1E-28 (A1P-56)	-	-	-	SSBN-602	ETR	SLBM	-	-	200?	200?	-
1961-S151	2437436.50	1961 May 17	Polaris A1	-	A1E-29	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S149	2437436.50	1961 May 17	Polaris A1	-	A1E-33 (A1P-66)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	1800?	-
1961-A129	2437445.33	1961 May 25 1953	Polaris A2	-	A2X-9	-	-	-	EAG-154	ETR	SLBM	-	-	0	0	-
1961-S176	2437463.20	1961 Jun 12 1653	Polaris A2	-	A2X-5	-	-	-	-	CC	LC25A	-	-	1000?	2655	-
1961-S188	2437477.28	1961 Jun 26 1842	Polaris A2	-	A2X-11	-	-	-	EAG-154	ETR	SLBM	-	-	500?	1059	-
1961-S204	2437493.52	1961 Jul 13 0031	Polaris A2	-	A2X-20	Medium Range Test	-	-	-	CC	LC29A	-	-	1000?	1233	GTI
1961-S228	2437513.50	1961 Aug 2	Polaris A2	-	A2X-21	-	-	-	-	CC	LC29A	-	-	1000?	2408	Antigua
1961-S236	2437523.50	1961 Aug 12	Polaris A1	-	A1E-42 (A1P-9)	-	-	-	SSBN-602	ETR	SLBM	-	-	10?	10?	-
1961-S237	2437523.50	1961 Aug 12	Polaris A1	-	A1E-43 (A1P-97)	-	-	-	SSBN-602	ETR	SLBM	-	-	10?	10?	-
1961-S238	2437523.50	1961 Aug 12	Polaris A1	-	A1E-34 (A1P-103)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S239	2437523.50	1961 Aug 12	Polaris A1	-	A1E-35 (A1P-58)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S240	2437523.50	1961 Aug 12	Polaris A1	-	A1E-36 (A1P-105)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-S241	2437523.50	1961 Aug 12	Polaris A1	-	A1E-37 (A1P-98)	-	-	-	SSBN-602	ETR	SLBM	-	-	500?	2000?	-
1961-A189	2437529.50	1961 Aug 18	Polaris A2	-	A2X-22	-	-	-	EAG-154	ETR	SLBM	-	-	2?	1?	-
1961-S302	2437572.12	1961 Sep 29 1500	Polaris A1	-	A1X-50	FITVC test	-	-	-	CC	LC25A	-	-	500?	1390?	-
1961-S318	2437577.14	1961 Oct 4 1522	Polaris A2	-	A2X-13	(A2X-15?)	-	-	EAG-154	ETR	SLBM	-	-	1000?	2576	-
1961-S335	2437589.12	1961 Oct 16 1454	Polaris A1	-	A1E-38 (A1P-100)	-	-	-	SSBN-608	ETR	SLBM	-	-	500?	2035	-
1961-S343	2437596.18	1961 Oct 23 1622	Polaris A2	-	A2E-X1 (A2X-4)	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2591	-
1961-S367	2437607.08	1961 Nov 3 1401:32	Polaris A1	-	A1E-39	-	-	-	SSBN-608	ETR	SLBM	-	-	500?	2037	-
1961-S368	2437607.15	1961 Nov 3 1530	Polaris A1	-	A1E-40	-	-	-	SSBN-608	ETR	SLBM	-	-	500?	2037	-
1961-S369	2437607.21	1961 Nov 3 1700	Polaris A1	-	A1E-41 (A1P-12)	-	-	-	SSBN-608	ETR	SLBM	-	-	500?	2037	-
1961-S370	2437612.17	1961 Nov 8 1610	Polaris A2	-	A2E-X2 (A2X-15)	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2593	-
1961-S372	2437613.67	1961 Nov 10 0400	Polaris A2	-	A2X-14 (A2G-1)	Mk 2 guidance	-	-	-	CC	LC29A	-	-	20?	10?	-
1961-S401	2437635.19	1961 Dec 1 1629	Polaris A2	-	A2X-23	-	-	-	-	CC	LC29A	-	-	1000?	2743	-
1961-S406	2437639.64	1961 Dec 6 0322	Polaris A1	-	A1X-51	FITVC test	-	-	-	CC	LC25A	-	-	500?	1389	-
1962-A11	2437688.21	1962 Jan 23 1705:37	Polaris A2	-	A2X-17 (A2G-2)	Mk 2 guidance	-	-	-	CC	LC29A	-	-	150?	680	-
1962-S49	2437725.32	1962 Mar 1 1945:01	Polaris A2	-	A2X-27 (A2G-5)	Mk 2 guidance	-	-	-	CC	LC29A	-	-	1000?	3176	-
1962-A40	2437754.39	1962 Mar 30 2128	Polaris A2	-	A2X-28 (A2M-3)	NPRB Nylon Ph. RB	-	-	-	CC	LC25A	-	-	0	0	-
1962-S107	2437780.20	1962 Apr 25 1650:26	Polaris A2	-	A2PE-1	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	2333	-
1962-S122	2437788.57	1962 May 4 0141:02	Polaris A2	-	A2X-18 (A2MG-1)	Mk 2 guid./NPRB	-	-	-	CC	LC25A	-	-	1000?	3382	-
1962-S126	2437791.47	1962 May 6 2317:49	Polaris A1	-	A1P?	FRIGATE BIRD	-	[Az. 243]	SSBN-608	DOMFB	-	-	-	500?	1890?	149.4W 4.8N
1962-A77	2437794.43	1962 May 9 2215:24	Polaris A2	-	A2PE-3	SDAP (DASO)	-	-	SSBN-609	ETR	SLBM	-	-	10?	5?	-
1962-S129	2437796.27	1962 May 11 1826:04	Polaris A2	-	A2PE-4	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	2600?	-
1962-S139	2437808.25	1962 May 23 1801:36	Polaris A2	-	A2PE-5	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	2600?	-
1962-S140	2437808.33	1962 May 23 1948:00	Polaris A2	-	A2PE-6	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	2600?	-
1962-S156	2437818.30	1962 Jun 2 1916:01	Polaris A2	-	A2PE-7	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	2600?	-
1962-S157	2437818.44	1962 Jun 2 2234:57	Polaris A2	-	A2PE-8	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	2600?	-
1962-A91	2437820.08	1962 Jun 4 1400	Polaris A2	-	A2X-30 (A2MG-2)	Mk 2 guid./NPRB	-	-	-	CC	LC25A	-	-	10?	5?	-
1962-S208	2437845.09	1962 Jun 29 1405:58	Polaris A2	-	A2X-29 (A2MG-4)	Mk 2 guid./NPRB	-	-	-	CC	LC25A	-	-	1000?	3472	-
1962-S239	2437858.27	1962 Jul 12 1831:57	Polaris A2	-	A2PE-11	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	2410?	Antigua
1962-S240	2437858.34	1962 Jul 12 2005:13	Polaris A2	-	A2PE-10	+80 min	-	-	SSBN-611	ETR	SLBM	-	-	1000?	2410?	Antigua
1962-S249	2437867.37	1962 Jul 21 2049:54	Polaris A2	-	A2P-12	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	2878	BOA
1962-S250	2437867.43	1962 Jul 21 2219:15	Polaris A2	-	A2P-13	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	GTI?
1962-S251	2437867.49	1962 Jul 21 2349:14	Polaris A2	-	A2P-2	Short range test	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	GTI
1962-S264	2437872.24	1962 Jul 26 1750:02	Polaris A2	-	A2TF-1	-	-	-	-	CC	LC25A	-	-	20?	20?	-
1962-S265	2437872.50	1962 Jul 27	Polaris A1	-	A1P-1	ORRT	-	-	SSBN-598	ETR	SLBM	-	-	500?	2000?	-
1962-S266	2437872.50	1962 Jul 27	Polaris A1	-	A1P-2	ORRT	-	-	SSBN-598	ETR	SLBM	-	-	500?	2000?	-
1962-S267	2437872.50	1962 Jul 27	Polaris A1	-	A1P-3	ORRT	-	-	SSBN-598	ETR	SLBM	-	-	500?	2000?	-
1962-S268	2437872.50	1962 Jul 27	Polaris A1	-	A1P-4	ORRT	-	-	SSBN-598	ETR	SLBM	-	-	500?	2000?	-
1962-S280	2437884.31	1962 Aug 7 1920:05	Polaris A3	-	A3X-1	-	-	-	-	CC	LC29A	-	-	200?	315	-
1962-S287	2437887.39	1962 Aug 10 2127:00	Polaris A2	-	A2TF-2	PX-1 Penaids	-	-	-	CC	LC25A	-	-	1000?	2000?	-
1962-A140	2437894.19	1962 Aug 17 1634:10	Polaris A2	-	A2TF-3	-	-	-	-	CC	LC25A	-	-	1?	0	-
1962-S312	2437904.13	1962 Aug 27 1502:03	Polaris A2	-	A2TF-4	-	-	-	-	CC	LC25A	-	-	1000?	2000?	BOA
1962-S327	2437914.17	1962 Sep 6 1600	Polaris A3	-	A3X-2	-	-	[St 2 fail]	-	CC	LC29A	-	-	80?	141	-
1962-S333	2437921.84	1962 Sep 14 0809:06	Polaris A1	-	A1T-6	-	-	-	EAG-154	ETR	SLBM	-	-	500?	2000?	-
1962-S334	2437923.36	1962 Sep 15 2037:10	Polaris A1	-	A1T-5	-	-	[No RV sep]	EAG-154	ETR	SLBM	-	-	500?	2000?	-
1962-S358	2437937.50	1962 Q4	Polaris A2	-	A2	-	-	-	SSBN-608?	JI?	LP2	-	-	1000?	-	-
1962-S359	2437937.50	1962 Q4	Polaris A2	-	A2	-	-	-	SSBN-608?	JI?	LP2	-	-	1000?	-	-
1962-S360	2437937.50	1962 Q4	Polaris A2	-	A2	-	-	-	SSBN-608?	JI?	LP2	-	-	1000?	-	-
1962-S361	2437937.50	1962 Q4	Polaris A2	-	A2	-	-	-	SSBN-608?	JI?	LP2	-	-	1000?	-	-
1962-A166	2437943.15	1962 Oct 5 1530	Polaris A3	-	A3X-3	-	-	[No NF sep]	-	CC	LC29A	-	-	20?	20	-
1962-S389	2437951.50	1962 Oct 14	Polaris A1	-	A1T-8	-	-	-	EAG-154	ETR	SLBM	-	-	500?	2000	-
1962-A170	2437951.50	1962 Oct 14	Polaris A1	-	A1T-7	-	-	-	EAG-154	ETR	SLBM	-	-	10?	10	-
1962-A189	2437974.15	1962 Nov 5 1529:59	Polaris A3	-	A3X-4	-	-	-	-	CC	LC29A	-	-	10?	-	-
1962-M31	2437986.21	1962 Nov 17 1706:17	Polaris A3	-	A3X-5	-	-	-	-	CC	LC29A	-	-	50?	-	-
1962-M39	2438005.10	1962 Dec 6 1419:04	Polaris A3	-	A3X-6	-	-	[Off course]	-	CC	LC29A	-	-	100?	400	78W 32N?
1962-S571	2438017.82	1962 Dec 19 0733:44	Polaris A2	-	A2X-24 (A2G-4)	Mk 2 guidance	-	-	-	CC	LC25A	-	-	1000?	2619	-
1963-S33	2438064.50	1963 Feb 4	Polaris A2	-	A2P-108	ORRT	-	-	SSBN-599	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S34	2438064.50	1963 Feb 4	Polaris A2	-	A2P-109	ORRT	-	-	SSBN-599	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S35	2438065.50	1963 Feb 5	Polaris A2	-	A2P-110	ORRT	-	-	SSBN-599	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S36	2438065.50	1963 Feb 5	Polaris A2	-	A2P-111	ORRT	-	-	SSBN-599	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S39	2438068.17	1963 Feb 7 1559:59	Polaris A3	-	A3X-8	-	-	[No NF sep]	-	CC	LC29A	-	-	1000?	3350	-
1963-S41	2438072.15	1963 Feb 11 1530	Polaris A3	-	A3X-7	-	-	-	-	CC	LC25A	-	-	1000?	3445	-
1963-A25	2438079.08	1963 Feb 18 1400:02	Polaris A3	-	A3X-9	-	-	-	-	CC	LC29A	-	-	10?	10?	-
1963-S62	2438082.25	1963 Feb 21 1756:07	Polaris A2	-	A2P-117	-	-	-	SSBN-618	ETR	SLBM	-	-	1000?	2500?	-
1963-A32	2438096.24	1963 Mar 7 1748:15	Polaris A2	-	A2P-116	-	-	-	SSBN-618	ETR	SLBM	-	-	1?	0	-
1963-S83	2438096.28	1963 Mar 7 1848:15	Polaris A2	-	A2P-120	-	-	-	SSBN-618	ETR	SLBM	-	-	1000?	2500?	-
1963-S92	2438102.50	1963 Mar 14	Polaris A2	-	A2	ORRT	-	-	SSBN-600	ETR	SLBM	-	-	500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S93	2438102.50	1963 Mar 14	Polaris A2	-	A2	ORRT	-	-	SSBN-600	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S94	2438102.50	1963 Mar 14	Polaris A2	-	A2	ORRT	-	-	SSBN-600	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S104	2438108.17	1963 Mar 19 1600:02	Polaris A3	-	A3X-11	-	-	-	-	CC	LC29A	-	-	80?	40?	-
1963-S138	2438128.17	1963 Apr 8 1600:02	Polaris A3	-	A3X-18	-	-	[No RB sep]	-	CC	LC29A	-	-	1000?	3961	Atlantic
1963-A52	2438130.36	1963 Apr 10 2033:07	Polaris A3	-	A3X-14	-	-	-	EAG-154	ETR	SLBM	-	-	1	0	-
1963-S152	2438136.50	1963 Apr 17	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S153	2438136.50	1963 Apr 17	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S154	2438136.50	1963 Apr 17	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S159	2438137.50	1963 Apr 18	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S160	2438137.50	1963 Apr 18	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S161	2438137.50	1963 Apr 18	Polaris A2	-	A2	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S176	2438146.27	1963 Apr 26 1831:23	Polaris A3	-	A3X-20	-	-	-	EAG-154	ETR	SLBM	-	-	80?	40?	-
1963-S195	2438160.24	1963 May 10 1744:04	Polaris A3	-	A3X-12	A,B,PX-2(D)	-	-	-	CC	LC25A	-	-	1000?	2719	-
1963-S206	2438167.18	1963 May 17 1614:59	Polaris A3	-	A3X-15	-	-	[No B,C sep]	-	CC	LC25A	-	-	1000?	2963?	-
1963-S252	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S253	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S254	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S255	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S256	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S257	2438184.50	1963 Jun 4	Polaris A2	-	A2	ORRT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S261	2438187.18	1963 Jun 6 1616:59	Polaris A3	-	A3X-25	-	-	-	-	CC	LC25A	-	-	1000?	2959	-
1963-A90	2438194.19	1963 Jun 13 1630:02	Polaris A2	-	A2P-121	-	-	-	SSBN-616	ETR	SLBM	-	-	40?	20?	-
1963-S273	2438194.21	1963 Jun 13 1705:34	Polaris A2	-	A2P-154	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	Antigua?
1963-S277	2438198.18	1963 Jun 17 1614:02	Polaris A3	-	A3X-24	-	-	-	EAG-154	ETR	SLBM	-	-	1000?	3469	-
1963-S290	2438202.16	1963 Jun 21 1544:03	Polaris A3	-	A3X-22	-	-	-	EAG-154	ETR	SLBM	-	-	1000?	3465	-
1963-S291	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S292	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S293	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S294	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S295	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S296	2438204.50	1963 Jun 24	Polaris A2	-	A2	-	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1963-S320	2438213.17	1963 Jul 2 1600:04	Polaris A2	-	A2P-118	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1963-S321	2438213.19	1963 Jul 2 1630:03	Polaris A2	-	A2P-167	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1963-S323	2438214.24	1963 Jul 3 1748:03	Polaris A3	-	A3X-26	-	-	-	-	CC	LC25A	-	-	1000?	3502	-
1963-S341	2438229.54	1963 Jul 19 0100	Polaris A3	-	A3X-27	PX-2(P)	-	-	-	CC	LC25A	-	-	1000?	2958	-
1963-S356	2438237.70	1963 Jul 27 0455:01	Polaris A3	-	A3X-33	PX-2(P)	Medium Range Test	-	-	CC	LC29A	-	-	1000?	2519	-
1963-S383	2438251.22	1963 Aug 9 1714:03	Polaris A2	-	A2P-210	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S384	2438251.26	1963 Aug 9 1819:43	Polaris A2	-	A2P-209	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S386	2438255.66	1963 Aug 14 0356:05	Polaris A3	-	A3X-36	PX-2(P)	-	-	-	CC	LC25A	-	-	1000?	2406	Antigua
1963-S390	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S391	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S392	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S393	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S394	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S395	2438258.50	1963 Aug 17	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1963-S396	2438261.67	1963 Aug 20 0400:03	Polaris A3	-	A3X-37	PX-2(P)	-	[No RB sep]	-	CC	LC29A	-	-	1000?	3648	-
1963-S402	2438265.21	1963 Aug 23 1701:06	Polaris A2	-	A2P-208	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S403	2438265.24	1963 Aug 23 1741:04	Polaris A2	-	A2P-211	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	2410?	Antigua
1963-S411	2438272.57	1963 Aug 31 0135:04	Polaris A3	-	A3X-38	PX-2(F)	-	[No A,C sep]	-	CC	LC25A	-	-	1000?	2961	-
1963-S422	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	500?	-	-
1963-S423	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	500?	-	-
1963-S424	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	10?	-	-
1963-S425	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	100?	-	-
1963-S426	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	10?	-	-
1963-S427	2438276.50	1963 Sep 4	Polaris A1	-	A1	ORRT	-	-	SSBN-602	ETR	SLBM	-	-	500?	-	-
1963-S460	2438299.64	1963 Sep 27 0325:00	Polaris A3	-	A3X-39	Steam eject, PX-2	-	-	EAG-154	ETR	SLBM	-	-	1000?	2937	-
1963-S470	2438304.32	1963 Oct 1 1939:05	Polaris A2	-	A2P-222	PY-1? DASO	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1963-S477	2438306.72	1963 Oct 4 0518:07	Polaris A3	-	A3X-41	PX-2	-	-	EAG-154	ETR	SLBM	-	-	1000?	2937	-
1963-S496	2438319.19	1963 Oct 16 1630:02	Polaris A2	-	A2P-221	PY-1? DASO	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1963-S508	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1963-S509	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1963-S510	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1963-S511	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1963-S512	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1963-S513	2438326.50	1963 Oct 24	Polaris A2	-	A2	-	-	-	SSBN-609	ETR	SLBM	-	-	1000?	3808	-
1963-S516	2438329.18	1963 Oct 26 1614:04	Polaris A3	-	A3X-43	-	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1963-S547	2438345.28	1963 Nov 11 1848:05	Polaris A3	-	A3X-42	-	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1963-S556	2438350.20	1963 Nov 16 1654:42	Polaris A2	-	A2P-233	-	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1963-S561	2438360.76	1963 Nov 27 0610:59	Polaris A3	-	A3X-44	PX-2,PY-2	-	-	EAG-154	ETR	SLBM	-	-	40?	-	-
1963-S591	2438373.63	1963 Dec 10 0311:17	Polaris A3	-	A3X-48	PX-2,PY-2	-	-	-	CC	LC25A	-	-	1000?	2413	Antigua
1963-S593	2438374.54	1963 Dec 11 0100:06	Polaris A3	-	A3X-46	PX-2,PY-2	-	-	EAG-154	ETR	SLBM	-	-	10?	-	-
1964-S18	2438402.50	1964 Jan 8 0000:10	Polaris A3	-	A3X-50	PX-2,PY-2	-	-	-	CC	LC29A	-	-	1000?	2413	Antigua
1964-S26	2438408.19	1964 Jan 13 1630:04	Polaris A2	-	A2P-243	PY-1? DASO	-	-	SSBN-623	ETR	SLBM	-	-	100?	-	-
1964-S27	2438408.41	1964 Jan 13 2150:01	Polaris A2	-	A2P-244	PY-1? DASO	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1964-A03	2438408.49	1964 Jan 13 2339:00	Polaris A2	-	A2P-226	PY-1? DASO	-	-	SSBN-623	ETR	SLBM	-	-	2?	-	-
1964-S40	2438415.21	1964 Jan 20 1702:01	Polaris A3	-	A3X-57 (A3Y-1)	-	-	-	EAG-154	ETR	SLBM	-	-	1000?	4230	-
1964-A13	2438421.20	1964 Jan 26 1647:03	Polaris A2	-	A2P-227	-	-	-	SSBN-623	ETR	SLBM	-	-	5?	-	-
1964-S52	2438421.33	1964 Jan 26 1959:03	Polaris A2	-	A2P-191	-	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1964-S72	2438429.20	1964 Feb 3 1641:07	Polaris A2	-	A2P-255	PY-1? DASO	-	-	SSBN-622	ETR	SLBM	-	-	1000?	-	-
1964-S100	2438443.21	1964 Feb 17 1703:04	Polaris A2	-	A2P-257	PY-1? DASO	-	-	SSBN-622	ETR	SLBM	-	-	1000?	-	-
1964-S128	2438457.19	1964 Mar 2 1630:03	Polaris A2	-	A2P-294	PY-1? DASO	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1964-S140	2438466.02	1964 Mar 11 1230:05	Polaris A3	-	A3X-58 (A3Y-2)	-	-	-	-	CC	LC25A	-	-	100?	-	-
1964-S153	2438471.19	1964 Mar 16 1630:14	Polaris A2	-	A2P-288	PY-1? DASO	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1964-S707	2438470.50	1964 Mar 16	Polaris A2	-	A2P	PY-1? DASO	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1964-S708	2438474.50	1964 Mar 20	Polaris A2	-	A2P	PY-1? DASO	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1964-S794	2438486.50	1964 Apr 1	Polaris A3	-	A3X-53	PX-2	-	-	EAG-154	JI	LP2	-	-	1000?	2854	KMR BOA?

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S189	2438492.19	1964 Apr 6 1630:03	Polaris A2	-	A2P-320	-	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1964-S795	2438493.50	1964 Apr 8	Polaris A3	-	A3X-55	PX-2	-	-	EAG-154	JI	LP2	-	-	10?	-	-
1964-S217	2438506.19	1964 Apr 20 1630:03	Polaris A2	-	A2P-286	-	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1964-S218	2438506.21	1964 Apr 20 1700:09	Polaris A2	-	A2P-119	Surface Launch Test	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1964-S796	2438527.50	1964 May 12	Polaris A3	-	A3X-60	PY-2	-	-	EAG-154	JI	LP2	-	-	1000?	2856	KMR BOA?
1964-S264	2438541.27	1964 May 25 1829:05	Polaris A3	-	A3P-6	-	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1964-S265	2438541.30	1964 May 25 1915:06	Polaris A3	-	A3P-1	-	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1964-S282	2438555.19	1964 Jun 8 1634:07	Polaris A3	-	A3P-2	-	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1964-S283	2438555.21	1964 Jun 8 1709:07	Polaris A3	-	A3P-4	DASO	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1964-S306	2438570.26	1964 Jun 23 1816:03	Polaris A2	-	A2P-296	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S307	2438570.33	1964 Jun 23 1953:03	Polaris A2	-	A2P-297	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S308	2438570.40	1964 Jun 23 2131:02	Polaris A2	-	A2P-319	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S322	2438578.52	1964 Jul 2 0024:03	Polaris A3	-	A3X-10	PY-2	-	-	-	CC	LC25A	-	-	1000?	2961	-
1964-S330	2438585.30	1964 Jul 8 1915:03	Polaris A2	-	A2P-295	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S331	2438585.34	1964 Jul 8 2015:03	Polaris A2	-	A2P-155	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S332	2438585.39	1964 Jul 8 2116:02	Polaris A2	-	A2P-232	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1964-S357	2438593.20	1964 Jul 16 1654:04	Polaris A3	-	A3P-19	-	-	-	SSBN-629	ETR	SLBM	-	-	1000?	-	-
1964-S358	2438593.23	1964 Jul 16 1724:07	Polaris A3	-	A3P-3	-	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1964-S391	2438607.19	1964 Jul 30 1630:03	Polaris A3	-	A3P-14	-	-	-	SSBN-629	ETR	SLBM	-	-	1000?	-	-
1964-S392	2438607.21	1964 Jul 30 1700:03	Polaris A3	-	A3P-32	-	-	-	SSBN-629	ETR	SLBM	-	-	1000?	-	-
1964-S408	2438614.19	1964 Aug 6 1630	Polaris A3	-	A3P-7	-	-	-	SSBN-628	ETR	SLBM	-	-	1000?	-	-
1964-S436	2438628.19	1964 Aug 20 1630:02	Polaris A3	-	A3P-33	-	-	-	SSBN-628	ETR	SLBM	-	-	1000?	-	-
1964-S459	2438644.19	1964 Sep 5 1630:03	Polaris A3	-	A3P-13	-	-	-	SSBN-631	ETR	SLBM	-	-	1000?	-	-
1964-S476	2438660.19	1964 Sep 21 1630:03	Polaris A3	-	A3P-38	-	-	-	SSBN-631	ETR	SLBM	-	-	1000?	-	-
1964-S490	2438667.19	1964 Sep 28 1630:03	Polaris A3	-	A3P-57	-	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1964-S519	2438682.20	1964 Oct 13 1650:04	Polaris A3	-	A3P-17	-	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1964-S527	2438687.50	1964 Oct 19	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1964-S528	2438687.50	1964 Oct 19	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1964-S529	2438687.50	1964 Oct 19	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1964-S530	2438687.50	1964 Oct 19	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1964-S544	2438696.50	1964 Oct 28	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1964-S545	2438696.50	1964 Oct 28	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1964-S546	2438696.50	1964 Oct 28	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1964-S547	2438696.50	1964 Oct 28	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1964-S559	2438700.25	1964 Oct 31 1804:03	Polaris A3	-	A3P-72	-	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1964-S799	2438719.50	1964 Nov 20	Polaris A3	-	A3X	PX-2	-	-	EAG-154	JI	LP2	-	-	1000?	-	-
1964-S800	2438724.50	1964 Nov 25	Polaris A3	-	A3X	PX-2	-	-	EAG-154	JI	LP2	-	-	1000?	-	-
1964-S623	2438713.21	1964 Nov 13 1657:03	Polaris A3	-	A3P-87	-	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1964-S666	2438732.19	1964 Dec 2 1630:04	Polaris A3	-	A3P-100	-	-	-	SSBN-634	ETR	SLBM	-	-	1000?	-	-
1964-S682	2438746.19	1964 Dec 16 1634:03	Polaris A3	-	A3P-45	-	-	-	SSBN-634	ETR	SLBM	-	-	1000?	-	-
1964-S698	2438752.19	1964 Dec 22 1630:04	Polaris A3	-	A3P-46	-	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1965-S32	2438772.22	1965 Jan 11 1713:03	Polaris A3	-	A3P-67	-	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1965-S45	2438784.19	1965 Jan 23 1630:08	Polaris A3	-	A3P-157	-	-	-	SSBN-635	ETR	SLBM	-	-	1000?	-	-
1965-S77	2438797.50	1965 Feb 6	Polaris A2	-	A2	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1965-S78	2438797.50	1965 Feb 6	Polaris A2	-	A2	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1965-S79	2438797.50	1965 Feb 6	Polaris A2	-	A2	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1965-S80	2438797.50	1965 Feb 6	Polaris A2	-	A2	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1965-S85	2438800.23	1965 Feb 8 1725:05	Polaris A3	-	A3P-5	-	-	-	SSBN-635	ETR	SLBM	-	-	1000?	-	-
1965-S92	2438803.50	1965 Feb 12	Polaris A2	-	A2	-	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1965-S93	2438803.50	1965 Feb 12	Polaris A2	-	A2	-	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1965-S96	2438807.19	1965 Feb 15 1630:03	Polaris A3	-	A3P-171	-	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1965-S121	2438821.22	1965 Mar 1 1718:06	Polaris A3	-	A3P-172	-	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1965-S133	2438824.55	1965 Mar 5 0112:59	Polaris A2E	-	A2EA-193	-	-	-	-	CC	LC25A	-	-	1000?	-	-
1965-S160	2438835.27	1965 Mar 15 1822:02	Polaris A3	-	A3P-158	Surface launch	-	-	SSBN-636	ETR	SLBM	-	-	1000?	-	-
1965-S161	2438835.30	1965 Mar 15 1909:01	Polaris A3	-	A3P-21	-	-	-	SSBN-636	ETR	SLBM	-	-	1000?	-	-
1965-S204	2438849.27	1965 Mar 29 1830:07	Polaris A3	-	A3P-11	-	-	-	SSBN-636	ETR	SLBM	-	-	1000?	-	-
1965-A56	2438864.76	1965 Apr 14 0609:19	Polaris A1	-	C2X-1	STAFF 1 (USAF)	-	-	-	CC	LC29A	-	-	1?	-	-
1965-S328	2438911.50	1965 May 31	Polaris A2	-	A2	-	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1965-S329	2438911.50	1965 May 31	Polaris A2	-	A2	-	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1965-S357	2438926.50	1965 Jun 15	Polaris A2	-	A2	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1965-S358	2438926.50	1965 Jun 15	Polaris A2	-	A2	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1965-S361	2438928.08	1965 Jun 16 1356:04	Polaris A1	-	C2X-2	STAFF 2	-	-	-	CC	LC29A	-	-	650	-	-
1965-S463	2438984.29	1965 Aug 11 1901:01	Polaris A1	-	C2X-3	STAFF 3	-	-	-	CC	LC29A	-	-	500?	-	-
1965-S791	2439025.50	1965 Sep 22	Polaris A3	-	A3X-61	PX-2	-	-	EAG-154	JI	LP2	-	-	1000?	-	KMR
1965-S596	2439069.50	1965 Nov 5	Polaris A3	-	A3	OT	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1965-S597	2439069.50	1965 Nov 5	Polaris A3	-	A3	OT	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1965-S598	2439069.50	1965 Nov 5	Polaris A3	-	A3	OT	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1965-S599	2439069.50	1965 Nov 5	Polaris A3	-	A3	OT	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1965-S615	2439077.44	1965 Nov 12 2228:14	Polaris A1	-	C2X-4	STAFF 4	-	-	-	CC	LC29A	-	-	500?	-	-
1965-S662	2439101.31	1965 Dec 6 1925:41	Polaris A3	-	A3P-42	OT/GT7 target	-	-	SSBN-640	ETR	SLBM	-	-	1000?	-	-
1965-S690	2439115.19	1965 Dec 20 1633:03	Polaris A3	-	A3P-188	-	-	-	SSBN-640	ETR	SLBM	-	-	1000?	-	-
1966-S62	2439143.20	1966 Jan 17 1642:04	Polaris A3	-	A3P-393	-	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1966-S86	2439157.19	1966 Jan 31 1630:03	Polaris A3	-	A3P-388	-	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1966-S113	2439174.19	1966 Feb 17 1630:03	Polaris A3	-	A3P-14	-	-	-	SSBN-644	ETR	SLBM	-	-	1000?	-	-
1966-S131	2439181.21	1966 Feb 24 1704:04	Polaris A3	-	A3P-380	-	-	-	SSBN-642	ETR	SLBM	-	-	1000?	-	-
1966-S132	2439181.50	1966 Feb 25	Polaris A2	-	A2	FOT	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1966-S133	2439181.50	1966 Feb 25	Polaris A2	-	A2	FOT	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1966-S143	2439185.50	1966 Mar 1	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1966-S144	2439185.50	1966 Mar 1	Polaris A2	-	A2	-	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1966-S147	2439188.20	1966 Mar 3 1650:02	Polaris A3	-	A3P-135	- (SSBN 642?)	-	-	SSBN-644	ETR	SLBM	-	-	1000?	-	-
1966-S157	2439195.17	1966 Mar 10 1600:02	Polaris A3	-	A3P-383	-	-	-	SSBN-642	ETR	SLBM	-	-	1000?	-	-
1966-S164	2439198.50	1966 Mar 14	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1966-S165	2439198.50	1966 Mar 14	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1966-S166	2439198.50	1966 Mar 14	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1966-S167	2439198.50	1966 Mar 14	Polaris A2	-	A2	-	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1966-S171	2439201.50	1966 Mar 17	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
						Launch										
1966-S172	2439201.50	1966 Mar 17	Polaris A2	-	A2	-	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1966-S202	2439216.17	1966 Mar 31 1600	Polaris A3	-	A3P-396	-	-	-	SSBN-598	ETR	SLBM	-	-	1000?	-	-
1966-S213	2439223.17	1966 Apr 7 1600	Polaris A3	-	A3P-445	1 of 2 failed	-	-	SSBN-643	ETR	SLBM	-	-	20?	-	-
1966-S214	2439223.19	1966 Apr 7 1630	Polaris A3	-	A3P-400	-	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1966-S217	2439230.17	1966 Apr 14 1600	Polaris A3	-	A3P-375	-	-	-	SSBN-598	ETR	SLBM	-	-	1000?	-	-
1966-S226	2439237.17	1966 Apr 21 1600	Polaris A3	-	A3P-440	-	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1966-S227	2439237.19	1966 Apr 21 1630	Polaris A3	-	A3P-431	-	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1966-S228	2439237.30	1966 Apr 21 1915:02	Polaris A3	-	A3P-437	-	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1966-S306	2439287.17	1966 Jun 10 1609	Polaris A3	-	A3P-421	-	-	-	SSBN-645	ETR	SLBM	-	-	1000?	-	-
1966-S330	2439300.17	1966 Jun 23 1600	Polaris A3	-	A3P-484	-	-	-	SSBN-645	ETR	SLBM	-	-	1000?	-	-
1966-S364	2439318.17	1966 Jul 11 1600	Polaris A3	-	A3P-399	-	-	-	SSBN-654	ETR	SLBM	-	-	1000?	-	-
1966-S388	2439332.17	1966 Jul 25 1600	Polaris A3	-	A3P-419	-	-	-	SSBN-654	ETR	SLBM	-	-	1000?	-	-
1966-S475	2439370.21	1966 Sep 1 1700:00	Polaris A3	-	A3P-386	-	-	-	SSBN-656	ETR	SLBM	-	-	1000?	-	-
1966-S496	2439388.50	1966 Sep 20	Polaris A2	-	A2	FOT	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1966-S497	2439388.50	1966 Sep 20	Polaris A2	-	A2	FOT	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1966-S508	2439396.50	1966 Sep 28	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1966-S509	2439396.50	1966 Sep 28	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1966-S535	2439409.17	1966 Oct 10 1610:03	Polaris A3	-	A3P-447	-	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1966-S574	2439430.18	1966 Oct 31 1615	Polaris A3	-	A3P-397	-	-	-	SSBN-599	ETR	SLBM	-	-	1000?	-	-
1966-S575	2439430.20	1966 Oct 31 1645	Polaris A3	-	A3P-450	-	-	-	SSBN-599	ETR	SLBM	-	-	1000?	-	-
1966-S616	2439443.50	1966 Nov 14	Polaris A3	-	A3P-512	-	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1966-S617	2439444.20	1966 Nov 14 1650:02	Polaris A3	-	A3P-394	-	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1966-S625	2439447.17	1966 Nov 17 1609:14	Polaris A3	-	A3TX-1 (A3P-492)	Antelope 1	-	ANTELOPE 1	-	CC	LC29A	-	-	500?	-	-
1966-S656	2439458.18	1966 Nov 28 1615:02	Polaris A3	-	A3P-389	-	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1966-S657	2439458.20	1966 Nov 28 1645:02	Polaris A3	-	A3P-378	-	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1967-S52	2439497.19	1967 Jan 6 1633:48	Polaris A3	-	A3TX-2 (A3P-496)	Antelope 2	-	ANTELOPE 2	-	CC	LC29A	-	-	1000?	-	-
1967-S133	2439552.07	1967 Mar 2 1345:01	Polaris A3	-	A3TX-4 (A3P-531)	Antelope 3	-	ANTELOPE 3	-	CC	LC29A	-	-	1000?	-	-
1967-S141	2439555.61	1967 Mar 6 0245:01	Polaris A3	-	A3P-549	-	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1967-S189	2439584.48	1967 Apr 3 2325:01	Polaris A3	-	A3P-401	-	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1967-S233	2439608.25	1967 Apr 27 1800:01	Polaris A3	-	A3P-510	-	-	-	SSBN-600	ETR	SLBM	-	-	1000?	-	-
1967-S650	2439627.50	1967 May 17	Polaris A3	-	A3TX-06 (A3P-558)	USN Mk 2 Mod 2 RV x 2	-	ANTELOPE 4	EAG-154?	JI?	LP2	-	-	500?	2560?	KMR?
1967-S651	2439662.50	1967 Jun 21	Polaris A3	-	A3TX-07 (A3P-573)	Antelope 5	-	ANTELOPE 5	EAG-154	JI?	LP2	-	-	500?	2560?	KMR?
1967-A157	2439662.50	1967 Jun 21	Polaris A3	-	A3TX-08 (A3P-588)	Antelope 6	-	ANTELOPE 6	EAG-154	JI?	LP2	-	-	500?	2560?	KMR?
1967-S315	2439664.50	1967 Jun 23	Polaris A2	-	A2	FOT	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1967-S316	2439664.50	1967 Jun 23	Polaris A2	-	A2	FOT	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1967-S317	2439664.50	1967 Jun 23	Polaris A2	-	A2	FOT	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1967-S318	2439664.50	1967 Jun 23	Polaris A2	-	A2	FOT	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1967-S339	2439679.50	1967 Jul 8	Polaris A2	-	A2P	FOT	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1967-S340	2439679.50	1967 Jul 8	Polaris A2	-	A2P	FOT	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1967-S362	2439703.14	1967 Jul 31 1518:04	Polaris A3	-	A3P-529	-	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1967-S426	2439742.16	1967 Sep 8 1545:02	Polaris A3	-	A3P-377	-	-	-	SSBN-602	ETR	SLBM	-	-	1000?	-	-
1967-S434	2439745.50	1967 Sep 12	Polaris A3	-	A3TY-1 (A3P-613)	Antelope 7	-	ANTELOPE 7	-	CC	LC29A	-	-	500?	-	-
1967-S514	2439796.22	1967 Nov 1 1718:07	Polaris A3	-	A3TY-3 (A3P-083)	Antelope 8	-	ANTELOPE 8	-	CC	LC29A	-	-	1000?	-	-
1967-S515	2439795.50	1967 Nov 1	Polaris A3	-	A3P	FOT	-	-	SSBN-656	ETR	SLBM	-	-	1000?	-	-
1967-S516	2439795.50	1967 Nov 1	Polaris A3	-	A3P	FOT	-	-	SSBN-656	ETR	SLBM	-	-	1000?	-	-
1967-S517	2439795.50	1967 Nov 1	Polaris A3	-	A3P	FOT	-	-	SSBN-656	ETR	SLBM	-	-	1000?	-	-
1967-S522	2439800.50	1967 Nov 6	Polaris A2	-	A2P	FOT	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1967-S523	2439800.50	1967 Nov 6	Polaris A2	-	A2P	FOT	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1967-S524	2439800.50	1967 Nov 6	Polaris A2	-	A2P	FOT	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1967-S547	2439819.50	1967 Nov 25	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1967-S548	2439819.50	1967 Nov 25	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1967-S549	2439819.50	1967 Nov 25	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1967-S550	2439819.50	1967 Nov 25	Polaris A2	-	A2P	FOT	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1967-S648	2439823.50	1967 Nov 29	Polaris A3	-	A3TX-03 (A3P-514)	USN Mk 2 Mod 2 RV x 2	-	ANTELOPE 9	EAG-154	JI	LP2	-	-	500?	2560?	KMR
1967-S649	2439830.50	1967 Dec 6	Polaris A3	-	A3TX-05 (A3P-544)	Antelope 10	-	ANTELOPE 10	EAG-154	JI	LP2	-	-	500?	2560?	KMR
1967-S645	2439490.50	1967	Polaris A1	-	Mk 2 RB	ISEP 1	Mk 2 RV	-	EAG-154	JI	LP2	-	-	500?	2560?	KMR?
1967-S646	2439490.50	1967	Polaris A1	-	Mk 2 RB	ISEP 2	Mk 2 RV	-	EAG-154	JI	LP2	-	-	500?	2560?	KMR?
1967-S647	2439490.50	1967	Polaris A1	-	Mk 2 RB	ISEP 3	Mk 2 RV	-	EAG-154	JI	LP2	-	-	500?	2560?	KMR?
1968-S689	2439976.50	1968 May?	Polaris A1	-	A1SX-1	ISEP 4	Mk 2 RV	-	EAG-154	JI	LP2	-	-	500?	2560?	KMR?
1968-S690	2439976.50	1968 May?	Polaris A1	-	A1SX-2	ISEP 5	Mk 2 RV	-	EAG-154	JI	LP2	-	-	100?	-	(KMR?)
1968-S691	2439855.50	1968	Polaris A1	-	Mk 2 RB	ISEP 6	Mk 2 RV	-	EAG-154	JI	LP2	-	-	500?	2560?	KMR?
1968-S692	2439931.50	1968 Mar 16	Polaris A3	-	A3TY-04 (A3P-091)	USN Mk 2 Mod 2 RV x 2	Mk 2 Mod 2 RVs+Decoys	ANTELOPE 11	EAG-154	JI	LP2	-	-	500?	2560?	KMR
1968-S693	2439950.50	1968 Apr 4	Polaris A3	-	A3TY-05 (A3P-102)	USN Mk 2 Mod 2 RV x 2	-	ANTELOPE 12	EAG-154	JI	LP2	-	-	500?	2560?	KMR
1968-S694	2439957.50	1968 Apr 11	Polaris A3	-	A3TY-07 (A3P-654)	USN Mk 2 Mod 2 RV x 2	-	ANTELOPE 13	EAG-154	JI	LP2	-	-	500?	2560?	KMR
1968-S695	2439965.50	1968 Apr 19	Polaris A3	-	A3TY-06 (A3P-103)	USN Mk 2 Mod 2 RV x 2	-	ANTELOPE 14	EAG-154?	JI	LP2	-	-	500?	2560?	KMR
1968-S77	2439864.26	1968 Jan 8 1811	Polaris A2	-	A2P-273	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S81	2439871.24	1968 Jan 15 1743	Polaris A2	-	A2P-138	-	-	-	SSBN-609	ETR	SLBM	-	-	10?	-	-
1968-S98	2439880.22	1968 Jan 24 1715	Polaris A2	-	A2P-94	DEFT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S104	2439887.21	1968 Jan 31 1700	Polaris A2	-	A2P-91	DEFT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1968-S132	2439902.18	1968 Feb 15 1615	Polaris A3	-	A3P-670 (A3E/UK-670)	UK DASO-01	-	-	UK-S22	ETR	SLBM	-	-	1000?	2361	Antigua
1968-S165	2439920.18	1968 Mar 4 1615	Polaris A3	-	A3P-666 (A3E/UK-666)	UK DASO-02	-	-	UK-S22	ETR	SLBM	-	-	1000?	2361	Antigua
1968-S262	2439956.50	1968 Apr 10	Polaris A3	-	A3P	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1968-S263	2439956.50	1968 Apr 10	Polaris A3	-	A3P	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1968-S264	2439956.50	1968 Apr 10	Polaris A3	-	A3P	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1968-S265	2439956.50	1968 Apr 10	Polaris A3	-	A3P	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1968-S284	2439972.50	1968 Apr 26	Polaris A3	-	A3P	FOT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1968-S285	2439972.50	1968 Apr 26	Polaris A3	-	A3P	FOT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1968-S286	2439972.50	1968 Apr 26	Polaris A3	-	A3P	FOT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1968-S287	2439972.50	1968 Apr 26	Polaris A3	-	A3P	FOT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1968-S371	2440019.17	1968 Jun 11 1600:01	Polaris A2E	-	A2E	DASO	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1968-S379	2440026.25	1968 Jun 18 1807	Polaris A2E	-	A2E	DASO	-	-	SSBN-610	ETR	SLBM	-	-	10?	-	-
1968-S395	2440049.17	1968 Jul 11 1600	Polaris A2E	-	A2E	DASO	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1968-S400	2440057.17	1968 Jul 19 1600	Polaris A2E	-	A2E	DASO	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1968-S428	2440068.17	1968 Jul 30 1607	Polaris A2E	-	A2E	DASO	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1968-S455	2440082.50	1968 Aug 14 0000	Polaris A2E	-	A2E	DASO	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1968-S479	2440098.14	1968 Aug 29 1515	Polaris A3	-	A3T-208	DASO/Antelope	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S480	2440098.17	1968 Aug 29 1600	Polaris A3	-	A3T-347	DASO/Antelope	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1968-S492	2440110.17	1968 Sep 10 1600	Polaris A2E	-	A2E	DASO?	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1968-S511	2440126.25	1968 Sep 26 1800:03	Polaris A2E	-	A2E	DASO	-	-	SSBN-617	ETR	SLBM	-	-	1000?	-	-
1968-S542	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S543	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S544	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S545	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1968-S546	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	-	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1969-S147	2440273.24	1969 Feb 20 1741:02	Polaris A2E	-	A2E	DASO	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1969-S222	2440308.17	1969 Mar 27 1600:03	Polaris A3	-	A3E-667	UK DASO-03	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1969-S226	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	FOT	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1969-S227	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	FOT	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1969-S228	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	FOT	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1969-S229	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	FOT	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1969-S252	2440316.21	1969 Apr 4 1700	Polaris A2E	-	A2E	DASO	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1969-S265	2440326.19	1969 Apr 14 1630	Polaris A3	-	A3E-645	UK DASO-04	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1969-S415	2440427.17	1969 Jul 24 1610	Polaris A3	-	A3E	UK DASO-05	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1969-S450	2440445.15	1969 Aug 11 1530	Polaris A3	-	A3E	UK DASO-06	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1969-S456	2440453.15	1969 Aug 19 1530	Polaris A3	-	A3E	-	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1969-S507	2440483.17	1969 Sep 18 1600	Polaris A2E	-	A2E	-	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1969-S525	2440495.10	1969 Sep 30 1430	Polaris A3	-	A3E	-	-	-	SSBN-623	ETR	SLBM	-	-	1000?	-	-
1969-S546	2440510.15	1969 Oct 15 1530	Polaris A3	-	A3E	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1969-S548	2440510.30	1969 Oct 15 1910	Polaris A3	-	A3E	-	-	-	SSBN-624	ETR	SLBM	-	-	1000?	-	-
1969-S557	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S558	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S559	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S560	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S561	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S562	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S563	2440514.50	1969 Oct 20	Polaris A2	-	A2	OT	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1969-S579	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S580	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S581	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S582	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S583	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S584	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S585	2440523.50	1969 Oct 29	Polaris A3	-	A3	OT	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1969-S586	2440525.19	1969 Oct 30 1630	Polaris A3	-	A3E	-	-	-	SSBN-622	ETR	SLBM	-	-	1000?	-	-
1969-S627	2440541.21	1969 Nov 15 1700	Polaris A2E	-	A2E	-	-	-	SSBN-619	ETR	SLBM	-	-	1000?	-	-
1969-S633	2440550.19	1969 Nov 24 1637	Polaris A3	-	A3E	-	-	-	SSBN-622	ETR	SLBM	-	-	1000?	-	-
1969-S642	2440558.19	1969 Dec 2 1630	Polaris A3	-	A3E	-	-	-	SSBN-620	ETR	SLBM	-	-	1000?	-	-
1970-S105	2440624.19	1970 Feb 6 1630	Polaris A3	-	A3E	-	-	-	SSBN-626	ETR	SLBM	-	-	1000?	-	-
1970-S286	2440687.19	1970 Apr 10 1630	Polaris A3	-	A3E	-	-	-	SSBN-625	ETR	SLBM	-	-	10?	-	-
1970-S287	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S288	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S289	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S290	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S291	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S292	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S293	2440687.50	1970 Apr 11	Polaris A3	-	A3	OT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1970-S313	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S314	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S315	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S316	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S317	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S318	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S319	2440697.50	1970 Apr 21	Polaris A2	-	A2	OT	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1970-S349	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S350	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S351	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S352	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S353	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S354	2440717.50	1970 May 11	Polaris A3	-	A3	OT	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1970-S366	2440729.25	1970 May 22 1800	Polaris A3	-	A3E	DASO	-	-	SSBN-625	ETR	SLBM	-	-	1000?	-	-
1970-S383	2440739.15	1970 Jun 1 1530	Polaris A3	-	A3E-671	-	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1970-S397	2440756.15	1970 Jun 18 1530	Polaris A3	-	A3E-468	-	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1970-S498	2440829.50	1970 Aug 31	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1970-S499	2440829.50	1970 Aug 31	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1970-S500	2440829.50	1970 Aug 31	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1970-S507	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S508	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S509	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S510	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S511	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S512	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1970-S513	2440838.50	1970 Sep 9	Polaris A3	-	A3	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1971-S180	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S181	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S182	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S183	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S184	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S185	2441029.50	1971 Mar 19	Polaris A3	-	A3	FOT	-	-	SSBN-659	ETR	SLBM	-	-	1000?	-	-
1971-S198	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1971-S199	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1971-S200	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1971-S201	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S202	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1971-S203	2441034.50	1971 Mar 24	Polaris A3	-	A3	FOT	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1971-S214	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S215	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S216	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S217	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S218	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S219	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S220	2441040.50	1971 Mar 30	Polaris A2	-	A2	FOT	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1971-S233	2441056.50	1971 Apr 15	Polaris A2	-	A2S-01	Safeguard M1-7	-	-	EAG-154	MID	LP4	-	-	1000?	3380?	KMR
1971-S269	2441078.50	1971 May 7	Polaris A2	-	A2S-03	Safeguard M1-8	-	-	EAG-154	MID	LP4	-	-	1000?	3380?	KMR
1971-S406	2441186.50	1971 Aug 23	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1971-S407	2441186.50	1971 Aug 23	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1971-S408	2441186.50	1971 Aug 23	Polaris A2	-	A2	FOT	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1971-S419	2441195.50	1971 Sep 1	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S420	2441195.50	1971 Sep 1	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S421	2441195.50	1971 Sep 1	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S422	2441195.50	1971 Sep 1	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S423	2441195.50	1971 Sep 1	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S428	2441196.50	1971 Sep 2	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S429	2441196.50	1971 Sep 2	Polaris A2	-	A2	FOT	-	-	SSBN-616	ETR	SLBM	-	-	1000?	-	-
1971-S550	2441265.50	1971 Nov 10	Polaris A2	-	A2S-02	Safeguard M2-5	-	-	EAG-154	MID	LP4	-	-	1000?	3380?	KMR
1971-S558	2441267.50	1971 Nov 12	Polaris A2	-	A2S-04	Safeguard M2-8	-	-	EAG-154	MID	LP4	-	-	1000?	3380?	KMR
1971-S596	2441293.50	1971 Dec 8	Polaris A3	-	A3S-01	Safeguard M2-3	-	-	EAG-154	MID	LP4	-	-	1000?	3380?	KMR
1972-S65	2441352.18	1972 Feb 4 1615	Polaris A3	A3T	A3T	DASO	-	-	SSBN-598	ETR	SLBM	-	-	1000?	-	-
1972-S100	2441383.19	1972 Mar 6 1630	Polaris A3	A3T	A3T	DASO	-	-	UK-S22	ETR	SLBM	-	-	1000?	-	-
1972-S178	2441432.17	1972 Apr 24 1600	Polaris A3	A3T	A3T	DASO	-	-	SSBN-599	ETR	SLBM	-	-	1000?	-	-
1972-S330	2441596.12	1972 Oct 5 1500	Polaris A3	A3T	A3T	DASO	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1973-S67	2441727.19	1973 Feb 13 1629:59	Polaris A3	A3T	A3T	DASO	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1974-S88	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	FOT	-	-	SSBN-598	WTR	LP5	-	-	1000?	-	-
1974-S89	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	FOT	-	-	SSBN-598	WTR	LP5	-	-	1000?	-	-
1974-S90	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	FOT	-	-	SSBN-598	WTR	LP5	-	-	1000?	-	-
1974-S91	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	FOT	-	-	SSBN-598	WTR	LP5	-	-	1000?	-	-
1974-S92	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	FOT	-	-	SSBN-598	WTR	LP5	-	-	1000?	-	-
1974-S208	2442199.12	1974 May 31 1459:59	Polaris A3	A3T	A3T	DASO	-	-	SSBN-600	ETR	SLBM	-	-	1000?	-	-
1974-S212	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1974-S213	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1974-S214	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1974-S215	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1974-S216	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1974-S269	2442245.12	1974 Jul 16 1459:59	Polaris A3	A3T	A3T	DASO	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1974-S276	2442255.14	1974 Jul 26 1523:00	Polaris A3	A3T	A3T	DASO	-	-	SSBN-602	ETR	SLBM	-	-	1000?	-	-
1974-S278	2442269.13	1974 Aug 9 1512:59	Polaris A3	A3T	A3T	DASO	-	-	SSBN-608	ETR	SLBM	-	-	1000?	-	-
1974-S285	2442287.12	1974 Aug 27 1500:00	Polaris A3	A3T	A3T	DASO	-	-	SSBN-600	ETR	SLBM	-	-	1000?	-	-
1974-S348	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	FOT	-	-	SSBN-601	WTR	LP5	-	-	1000?	-	-
1974-S349	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	FOT	-	-	SSBN-601	WTR	LP5	-	-	1000?	-	-
1974-S350	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	FOT	-	-	SSBN-601	WTR	LP5	-	-	1000?	-	-
1974-S351	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	FOT	-	-	SSBN-601	WTR	LP5	-	-	1000?	-	-
1974-S352	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	FOT	-	-	SSBN-601	WTR	LP5	-	-	1000?	-	-
1975-S120	2442515.12	1975 Apr 12 1459	Polaris A3	A3T	A3T	DASO	-	-	SSBN-610	ETR	SLBM	-	-	1000?	-	-
1975-S139	2442529.13	1975 Apr 26 1510	Polaris A3	A3T	A3T	DASO	-	-	SSBN-609	ETR	SLBM	-	-	1000?	-	-
1975-S201	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	FOT	-	-	SSBN-602	WTR	LP5	-	-	1000?	-	-
1975-S202	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	FOT	-	-	SSBN-602	WTR	LP5	-	-	1000?	-	-
1975-S203	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	FOT	-	-	SSBN-602	WTR	LP5	-	-	1000?	-	-
1975-S204	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	FOT	-	-	SSBN-602	WTR	LP5	-	-	1000?	-	-
1975-S205	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	FOT	-	-	SSBN-602	WTR	LP5	-	-	1000?	-	-
1975-S325	2442739.17	1975 Nov 22 1600:02	Polaris A3	A3T	A3T	DASO	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1976-S62	2442797.50	1976 Jan 20	Polaris A3	A3T	A3T	FOT	-	-	SSBN-608	WTR	LP5	-	-	1000?	-	-
1976-S63	2442797.50	1976 Jan 20	Polaris A3	A3T	A3T	FOT	-	-	SSBN-608	WTR	LP5	-	-	1000?	-	-
1976-S77	2442801.50	1976 Jan 24	Polaris A3	A3T	A3T	FOT	-	-	SSBN-600	WTR	LP5	-	-	1000?	-	-
1976-S78	2442801.50	1976 Jan 24	Polaris A3	A3T	A3T	FOT	-	-	SSBN-600	WTR	LP5	-	-	1000?	-	-
1976-S151	2442867.17	1976 Mar 29 1600	Polaris A3	A3T	A3T	DASO	-	-	SSBN-618	ETR	SLBM	-	-	1000?	-	-
1976-S285	2443023.50	1976 Sep 2	Polaris A3	A3T	A3T	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1976-S286	2443023.50	1976 Sep 2	Polaris A3	A3T	A3T	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1976-S288	2443028.50	1976 Sep 7	Polaris A3	A3T	A3T	FOT	-	-	SSBN-609	WTR	LP5	-	-	1000?	-	-
1976-S289	2443028.50	1976 Sep 7	Polaris A3	A3T	A3T	FOT	-	-	SSBN-609	WTR	LP5	-	-	1000?	-	-
1976-S294	2443040.23	1976 Sep 18 1725	Polaris A3	A3T	A3T	DASO	-	-	SSBN-611	ETR	SLBM	-	-	1000?	-	-
1977-S199	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1977-S200	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1977-S201	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1977-S202	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1977-S203	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	FOT	-	-	SSBN-610	WTR	LP5	-	-	1000?	-	-
1977-S215	2443339.17	1977 Jul 14 1600:00	Polaris A3	A3T	A3T	DASO	-	-	UK-S22	ETR	SLBM	-	-	1000?	-	-
1977-S245	2443399.48	1977 Sep 12 2330	Polaris A3	A3T	A3TK-PA	CHEVALINE P-A	-	-	-	CC	LC29	-	-	1000?	-	-
1977-S278	2443456.44	1977 Nov 8 2230	Polaris A3	A3T	A3TK-PB	CHEVALINE P-B	-	-	-	CC	LC29B	-	-	1000?	-	-
1978-S169	2443688.38	1978 Jun 28 2100	Polaris A3	A3T	A3TA	DASO	-	-	SSBN-599	ETR	SLBM	-	-	1000?	-	-
1978-S175	2443696.50	1978 Jul 7	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-618	WTR	LP5	-	-	1000?	-	-
1978-S176	2443696.50	1978 Jul 7	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-618	WTR	LP5	-	-	1000?	-	-
1978-S177	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-611	WTR	LP5	-	-	1000?	-	-
1978-S178	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-611	WTR	LP5	-	-	1000?	-	-
1978-S179	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-611	WTR	LP5	-	-	1000?	-	-
1978-S189	2443717.48	1978 Jul 27 2330	Polaris A3	A3T	A3TK P-1	CHEVALINE P1	-	-	-	CC	LC29	-	-	1000?	-	-
1978-S213	2443772.17	1978 Sep 20 1600	Polaris A3	A3T	A3TA	DASO	-	-	SSBN-598	ETR	SLBM	-	-	1000?	-	-
1978-S235	2443833.22	1978 Nov 20 1723	Polaris A3	A3T	A3TA	DASO	-	-	SSBN-601	ETR	SLBM	-	-	1000?	-	-
1978-S243	2443843.42	1978 Nov 30 2200	Polaris A3	A3T	A3TK P-2	CHEVALINE P2	-	-	-	CC	LC29	-	-	1000?	-	-
1979-S66	2443925.21	1979 Feb 20 1700	Polaris A3	A3T	A3T?	DASO?	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-S111	2443967.50	1979 Apr 4	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-608	WTR	LP5	-	-	1000?	-	-
1979-S112	2443967.50	1979 Apr 4	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-608	WTR	LP5	-	-	1000?	-	-
1979-S114	2443968.49	1979 Apr 4 2347	Polaris A3	A3T	A3TK P-3	CHEVALINE P3	-	-	-	CC	LC29A	-	-	1000?	-	-
1979-S117	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1979-S118	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1979-S119	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	FOT	-	-	SSBN-599	WTR	LP5	-	-	1000?	-	-
1979-S158	2444060.56	1979 Jul 6 0120	Polaris A3	A3T	A3TK C9E	CHEVALINE P4	-	-	-	CC	LC29	-	-	1000?	-	-
1979-S197	2444117.68	1979 Sep 1 0416	Polaris A3	A3T	A3TK P-5	CHEVALINE P5	-	-	-	CC	LC29A	-	-	1000?	-	-
1979-S239	2444186.42	1979 Nov 8 2200	Polaris A3	A3T	A3TK P-6	CHEVALINE P6	-	-	-	CC	LC29A	-	-	1000?	-	-
1980-S68	2444320.48	1980 Mar 21 2330	Polaris A3	A3T	A3TK PT-2	CHEVALINE PT2	-	-	-	CC	LC29	-	-	1000?	-	-
1980-S86	2444340.51	1980 Apr 11 0015	Polaris A3	A3T	A3TK PT-1	CHEVALINE PT1	-	-	-	CC	LC29	-	-	1000?	-	-
1980-S110	2444378.52	1980 May 19 0030	Polaris A3	A3T	A3TK PT-3	CHEVALINE PT3	-	-	-	CC	LC29	-	-	1000?	-	-
1980-S199	2444558.33	1980 Nov 14 2000	Polaris A3	A3T	A3TK PS-1	CHEVALINE PS1	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1980-S209	2444562.19	1980 Nov 18 1630	Polaris A3	A3T	A3TK PS-2	CHEVALINE PS2	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1982-S49	2445000.19	1982 Jan 30 1630	Polaris A3	A3T	A3TK	CHEVALINE DASO-1	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1982-S52	2445002.27	1982 Feb 1 1830	Polaris A3	A3T	A3TK	CHEVALINE DASO-1	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1982-S53	2445004.19	1982 Feb 3 1630	Polaris A3	A3T	A3TK	CHEVALINE DASO-1	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1982-S54	2445009.27	1982 Feb 8 1830	Polaris A3	A3T	A3TK	CHEVALINE DASO-1	-	-	UK-S26	ETR	SLBM	-	-	1000?	-	-
1983-S101	2445470.16	1983 May 15 1546	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1983-S102	2445471.15	1983 May 16 1530	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1983-A24	2445495.12	1983 Jun 9 1500	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	10	-	-
1983-S110	2445495.17	1983 Jun 9 1605	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	1000	-	-
1983-S112	2445497.12	1983 Jun 11 1500	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	1000	-	-
1983-S113	2445497.20	1983 Jun 11 1643	Polaris A3	A3T	A3TK	CHEVALINE DASO-2	-	-	UK-S27	ETR	SLBM	-	-	1000	-	-
1985-S76	2446204.54	1985 May 19 0055	Polaris A3	A3T	A3TK	CHEVALINE DASO-3	-	-	UK-S22	ETR	SLBM	-	-	1000	-	-
1985-A04	2446205.75	1985 May 20 0600	Polaris A3	A3T	A3TK	CHEVALINE DASO-3	-	-	UK-S22	ETR	SLBM	-	-	1	-	-
1985-S81	2446226.85	1985 Jun 10 0826	Polaris A3	A3T	A3TK	CHEVALINE DASO-3	-	-	UK-S22	ETR	SLBM	-	-	1000	-	-
1986-S67	2446637.44	1986 Jul 25 2230	Polaris A3	A3T	A3TK/A3R	CHEVALINE DASO-4 PEM	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1986-S68	2446637.59	1986 Jul 26 0213	Polaris A3	A3T	A3TK/A3R	CHEVALINE DASO-4 PEM	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1986-S78	2446644.43	1986 Aug 1 2215	Polaris A3	A3T	A3TK/A3R	CHEVALINE DASO-4 PEM	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1986-S79	2446644.57	1986 Aug 2 0135	Polaris A3	A3T	A3TK/A3R	CHEVALINE DASO-4 PEM	-	-	UK-S27	ETR	SLBM	-	-	1000?	-	-
1987-S78	2446901.89	1987 Apr 16 0925	Polaris A3	A3T	A3TK	CHEVALINE CAF	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1987-S79	2446903.62	1987 Apr 18 0300	Polaris A3	A3T	A3TK	CHEVALINE CAF	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1987-A08	2446925.91	1987 May 10 0945	Polaris A3	A3T	A3TK	CHEVALINE CAF	-	-	UK-S23	ETR	SLBM	-	-	5	-	-
1987-S85	2446925.96	1987 May 10 1107	Polaris A3	A3T	A3TK	CHEVALINE CAF	-	-	UK-S23	ETR	SLBM	-	-	1000?	-	-
1993-S17	2449045.36	1993 Feb 26 2045	STARS	-	FTU-1	FTU-1	-	-	-	KAU	LC42	-	-	800?	3700	KMR
1993-S56	2449224.92	1993 Aug 25 1000	STARS	-	M-1	Zodiac Beauchamp	Chevaline	-	-	KAU	LC42	-	-	900?	-	-
1994-S50	2449555.50	1994 Jul 22	STARS	-	M-2 STARS II	ODES	-	-	-	KAU	LC42	-	-	1000?	-	-
1996-S54	2450327.15	1996 Aug 31 1541:49	STARS	-	M-3 STARS II	ODES/MSX MDT-2	26 Mock Target RVs	-	-	KAU	LC42	-	-	909	3700	KMR
2001-A03	2452223.26	2001 Nov 9 1812	STARS	-	M-4 WCRRF	BMDO Radar Target	-	-	-	KLC	LP2	-	-	10?	-	-
2004-S71	2453354.74	2004 Dec 15 0545	STARS	-	M-5	IFT-13c Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2005-S06	2453415.77	2005 Feb 14 0622	STARS	-	M-6	IFT-14 Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2006-S05	2453790.17	2006 Feb 23 1609	STARS	-	M-7 FT04-1	GMD FT04-1 Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2006-S48	2453980.22	2006 Sep 1 1722	STARS	-	M-8	GMD FTG-02 Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2007-A03	2454246.09	2007 May 25 1415	STARS	-	M-9	GMD FTG-03 Target	-	-	-	KLC	LP2	-	-	40?	-	-
2007-S42	2454372.33	2007 Sep 28 2001	STARS	-	-	GMD FTG-03a Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2008-S88	2454666.41	2008 Jul 18 2147	STARS	-	FTX-03	GMD FTX-03 Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2008-S70	2454806.34	2008 Dec 5 2004	STARS	-	-	GMD FTG-05 Target	-	-	-	KLC	LP2	-	-	1000?	-	-
2011-S57	2455882.98	2011 Nov 17 1130	STARS	-	AHW FT1A	AHW/HGB	-	-	-	KAU	LC42	-	-	1000?	-	-
2014-A14	2456894.85	2014 Aug 25 0825?	STARS	-	AHW FT2	AHW/HTT	-	-	-	KLC	LP2	-	-	1?	-	-
2017-S94	2458057.04	2017 Oct 30 1300	STARS	-	CPS FE-1	CHGB Block 0 FE-1	IRCPS AHW (USN)	-	-	KAU	LC42	-	-	1000?	-	KMR
2020-S17	2458928.85	2020 Mar 20 0830	STARS	-	CPS FE-2	CHGB Block 0 FE-2	IRCPS AHW (USN)	-	-	KAU	LC42	-	-	500?	-	Pacific

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A125	2436471.22	1958 Sep 24 1718	Polaris AX	-	AX-1	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1958-A135	2436491.50	1958 Oct 15	Polaris AX	-	AX-2	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1958-A171	2436568.14	1958 Dec 30 1528	Polaris AX	-	AX-3	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-M03	2436588.16	1959 Jan 19 1552	Polaris AX	-	AX-4	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-A36	2436627.30	1959 Feb 27 1916	Polaris AX	-	AX-5	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-S52	2436679.15	1959 Apr 20 1534	Polaris AX	-	AX-6	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-S65	2436697.31	1959 May 8 1928	Polaris AX	-	AX-8	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-A78	2436707.47	1959 May 18 2316	Polaris AX	-	AX-7	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-A99	2436732.29	1959 Jun 12 1857	Polaris AX	-	AX-10	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire(EST)	-	-
1959-S98	2436749.15	1959 Jun 29 1542	Polaris AX	-	AX-9	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-A117	2436765.21	1959 Jul 15 1659	Polaris AX	-	AX-11	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-A132	2436787.37	1959 Aug 6 2048	Polaris AX	-	AX-15	0.000	USNSPO	MF	U	-	Test	Ulrich/Wire	Cleary95	EST
1959-S140	2436795.39	1959 Aug 14 2124	Polaris AX	-	AX-13	0.000	USNSPO	MS	-	-	Test	Wire	Cleary95	EST
1959-A144	2436806.19	1959 Aug 25 1633	Polaris AX	-	AX-18	0.000	USNSPO	MF	U	-	Test	Wire	Cleary95	-
1959-S151	2436808.20	1959 Aug 27 1652	Polaris AX	-	AX-22	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-S182	2436833.27	1959 Sep 21 1829	Polaris A1	-	A1X-1	0.000	USNSPO	MS	-	-	Test	Wire	Cleary95	-
1959-A166	2436840.21	1959 Sep 28 1706	Polaris AX	-	AX-14	0.000	USNSPO	MF	U	-	Test	Wire	Cleary95	-
1959-A169	2436844.26	1959 Oct 2 1811	Polaris AX	-	AX-20	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-A173	2436854.26	1959 Oct 12 1818	Polaris A1	-	A1X-2	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-S248	2436893.22	1959 Nov 20 1711	Polaris A1	-	A1X-3	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-S265	2436910.34	1959 Dec 7 2013	Polaris A1	-	A1X-4	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1959-S268	2436918.70	1959 Dec 16 0450	Polaris A1	-	A1X-6	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1959-A210	2436926.34	1959 Dec 23 2007	Polaris A1	-	A1X-5	0.000	USNSPO	MF	U	-	Test	MT60-2544	-	EST
1960-S07	2436941.62	1960 Jan 8 0252	Polaris A1	-	A1X-7	0.000	USNSPO	MS	-	-	Test	UPI	Cleary95/Wire	-
1960-S09	2436947.38	1960 Jan 13 2107	Polaris A1	-	A1X-8	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1960-S16	2436954.36	1960 Jan 20 2034	Polaris A1	-	A1X-9	0.000	USNSPO	MS	-	-	Test	Wire	Cleary95	-
1960-S23	2436961.38	1960 Jan 27 2102	Polaris A1	-	A1X-10	0.000	USNSPO	MS	-	-	Test	Ulrich/Wire	Cleary95	-
1960-S30	2436969.43	1960 Feb 4 2219	Polaris A1	-	A1X-12	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1960-S33	2436974.50	1960 Feb 10	Polaris A1	-	A1X-11	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-A55	2436990.50	1960 Feb 26	Polaris A1	-	A1X-13	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1960-S50	2437002.50	1960 Mar 9	Polaris A1	-	A1X-14	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S55	2437011.50	1960 Mar 18	Polaris A1	-	A1X-15	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S62	2437018.50	1960 Mar 25	Polaris A1	-	A1X-16	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S67	2437023.54	1960 Mar 30 0103	Polaris A1	-	A1X-18	0.000	USNSPO	MF	U	-	Test	Ulrich/Wire	Cleary95	- -
1960-A98	2437039.43	1960 Apr 14 2221	Polaris A1	-	STV-2A-2	0.000	USNSPO	MS	-	-	Test	Wire	-	-
1960-M05	2437042.50	1960 Apr 18	Polaris A1	-	A1X-19	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1960-S83	2437050.55	1960 Apr 26 0113	Polaris A1	-	A1X-22	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire(EDT)	-	-
1960-S87	2437054.49	1960 Apr 29 2345	Polaris A1	-	A1X-23	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire(EDT)	-	-
1960-S88	2437054.66	1960 Apr 30 0345	Polaris A1	-	A1X-25	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire(EDT)	-	-
1960-S98	2437073.27	1960 May 18 1834	Polaris A1	-	A1X-30	0.000	USNSPO	MS	-	-	Test	Ulrich/Wire	Cleary95	EST -
1960-S101	2437078.40	1960 May 23 2139	Polaris A1	-	A1X-17	0.000	USNSPO	MS	-	-	Test	Ulrich/Wire	Cleary95	EST -
1960-M15	2437093.16	1960 Jun 7 1554	Polaris A1	-	A1X-27	0.000	USNSPO	MF	U	-	Test	Ulrich/Wire	Cleary95	EST -
1960-S136	2437108.60	1960 Jun 23 0222	Polaris A1	-	A1X-32	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1960-S140	2437108.74	1960 Jun 23 0552	Polaris A1	-	A1X-34	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1960-A159	2437115.50	1960 Jun 30	Polaris A1	-	A1X	0.000	USNSPO	MS	-	-	Test	AE1961A	-	-
1960-A161	2437122.16	1960 Jul 6 1555	Polaris A1	-	A1X-40	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-A162	2437122.50	1960 Jul 7	Polaris A1	-	A1X-39	0.000	USNSPO	MF	U	-	Test	ETR-IDX	-	-
1960-S176	2437130.76	1960 Jul 15 0610	Polaris A1	-	A1X-42	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-S181	2437135.17	1960 Jul 19 1600	Polaris A1	-	A1X-41	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-S184	2437136.24	1960 Jul 20 1739	Polaris A1	-	A1E-1 (A1XP-5)	0.000	USNSPO	MS	-	-	Test	Taylor	ETR-IDX	-
1960-S185	2437136.36	1960 Jul 20 2032	Polaris A1	-	A1E-2 (A1XP-8)	0.000	USNSPO	MS	-	-	Test	Wire/Barr-Howard	ETR-IDX	-
1960-S206	2437146.35	1960 Jul 30 2020	Polaris A1	-	A1E-4 (A1XP-4)	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-A183	2437148.22	1960 Aug 1 1710	Polaris A1	-	A1E-3 (A1EP-2)	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-A185	2437149.54	1960 Aug 3 0058	Polaris A1	-	A1X-37	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-S219	2437151.23	1960 Aug 4 1728	Polaris A1	-	A1X-44	0.000	USNSPO	MS	-	-	Test	Ulrich	ETR-IDX	EDT
1960-S235	2437159.27	1960 Aug 12 1828	Polaris A1	-	A1X-47	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-S242	2437165.64	1960 Aug 19 0320	Polaris A1	-	A1X-43	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-A209	2437171.36	1960 Aug 24 2043	Polaris A1	-	A1	0.000	USNSPO	MS	-	-	Test	PasaInd600825	-	-
1960-S263	2437180.12	1960 Sep 2 1500	Polaris A1	-	A1X-45	0.000	USNSPO	MS	-	-	Test	Ulrich/Wire	ETR-IDX	-
1960-A219	2437191.25	1960 Sep 13 1755	Polaris A1	-	A1XE-5 (A1XP-7)	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-S269	2437193.39	1960 Sep 15 2128	Polaris A1	-	A1XE-6 (A1FP-1)	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-A226	2437200.42	1960 Sep 22 2205	Polaris A1	-	A1XE-7 (A1FP-3)	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-A227	2437200.55	1960 Sep 23 0105?	Polaris A1	-	A1XE-8 (A1FP-4)	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire(+3h)	-	-
1960-S282	2437201.58	1960 Sep 24 0202	Polaris A1	-	A1X-48	0.000	USNSPO	MS	-	-	Test	Wire/Ulrich	ETR-IDX	-
1960-S307	2437213.17	1960 Oct 5 1604	Polaris A1	-	A1X-49	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire(EST)	-	-
1960-S313	2437217.50	1960 Oct 10	Polaris A1	-	A1X-53	0.000	USNSPO	MS	-	-	Test	ETR-IDX	-	-
1960-S320	2437222.50	1960 Oct 15	Polaris A1	-	A1FP-5 (A1E-9)	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S321	2437222.50	1960 Oct 15	Polaris A1	-	A1FP-6 (A1E-10)	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S322	2437223.50	1960 Oct 16	Polaris A1	-	A1FP-7 (A1E-11)	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S325	2437225.50	1960 Oct 18	Polaris A1	-	A1FP-8 (A1E-12)	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1960-S351	2437246.29	1960 Nov 7 1900	Polaris A1	-	A1X-46	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-S353	2437249.18	1960 Nov 10 1622	Polaris A2	-	A2X-1	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire	-	-
1960-A265	2437256.29	1960 Nov 17 1900	Polaris A1	-	A1X-52	0.000	USNSPO	MF	U	-	Test	ETR-IDX/Wire	-	-
1960-S393	2437273.50	1960 Dec 5	Polaris A2	-	A2X-2	0.000	USNSPO	MS	-	-	Test	ETR-IDX	-	-
1960-S417	2437291.27	1960 Dec 22 1834	Polaris A1	-	A1E-13 (A1P-19)	0.000	USNSPO	MS	-	-	OT	ETR-IDX/Wire	-	-
1961-S13	2437310.22	1961 Jan 10 1715	Polaris A2	-	A2X-3	0.000	USNSPO	MS	-	-	Test	ETR-IDX/Wire(pm/am)	-	-
1961-A18	2437311.28	1961 Jan 11 1840	Polaris A1	-	A1E-15 (A1P-23)	0.000	USNSPO	MF	U	-	OT	ETR-IDX/Wire	-	-
1961-A21	2437314.27	1961 Jan 14 1834	Polaris A1	-	A1E-14 (A1P-24)	0.000	USNSPO	MF	U	-	OT	Ulrich	ETR-IDX	EST
1961-A44	2437337.40	1961 Feb 6 2140	Polaris A2	-	A2X-6	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1961-S63	2437360.26	1961 Mar 1 1819	Polaris A2	-	A2X-7	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1961-S76	2437367.50	1961 Mar 9	Polaris A2	-	A2X-8	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1961-S82	2437374.23	1961 Mar 15 1730	Polaris A2	-	A2X-10	0.000	USNSPO	MS	-	-	Test	FDC	Cleary95	-
1961-A80	2437382.18	1961 Mar 23 1625	Polaris A1	-	A1E-16	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1961-S86	2437382.31	1961 Mar 23 1925	Polaris A1	-	A1E-17	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-A81	2437382.45	1961 Mar 23 2241	Polaris A1	-	A1E-18 (A1P-39)	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1961-S105	2437395.50	1961 Apr 6	Polaris A1	-	A1E-19 (A1P-65)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-M09	2437401.15	1961 Apr 11 1540	Polaris A2	-	A2X-12	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1961-S113	2437409.42	1961 Apr 19 2204	Polaris A1	-	A1E-20	0.000	USNSPO	MS	-	-	OT	FDC	Cleary95	-
1961-S131	2437421.21	1961 May 1 1700	Polaris A2	-	A2X-16	0.000	USNSPO	MS	-	-	Test	Wire/Ulrich	Cleary95	-
1961-S133	2437423.21	1961 May 3 1700	Polaris A1	-	A1E-22	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-S138	2437428.22	1961 May 8 1710	Polaris A2	-	A2X-19	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1961-S147	2437436.50	1961 May 17	Polaris A1	-	A1E-26 (A1P-70)	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1961-S150	2437436.50	1961 May 17	Polaris A1	-	A1E-27 (A1P-55)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-S148	2437436.50	1961 May 17	Polaris A1	-	A1E-28 (A1P-56)	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1961-S151	2437436.50	1961 May 17	Polaris A1	-	A1E-29	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-S149	2437436.50	1961 May 17	Polaris A1	-	A1E-33 (A1P-66)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-A129	2437445.33	1961 May 25 1953	Polaris A2	-	A2X-9	0.000	USNSPO	MF	U	-	Test	Wire/Ulrich	Cleary95	-
1961-S176	2437463.20	1961 Jun 12 1653	Polaris A2	-	A2X-5	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	EST
1961-S188	2437477.28	1961 Jun 26 1842	Polaris A2	-	A2X-11	0.000	USNSPO	MF	U	-	Test	Wire/Ulrich	Cleary95	St2 uburn
1961-S204	2437493.52	1961 Jul 13 0031	Polaris A2	-	A2X-20	0.000	USNSPO	MS	-	-	Test	FDC	Cleary95	EST
1961-S228	2437513.50	1961 Aug 2	Polaris A2	-	A2X-21	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1961-S236	2437523.50	1961 Aug 12	Polaris A1	-	A1E-42 (A1P-9)	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1961-S237	2437523.50	1961 Aug 12	Polaris A1	-	A1E-43 (A1P-97)	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1961-S238	2437523.50	1961 Aug 12	Polaris A1	-	A1E-34 (A1P-103)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-S239	2437523.50	1961 Aug 12	Polaris A1	-	A1E-35 (A1P-58)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-S240	2437523.50	1961 Aug 12	Polaris A1	-	A1E-36 (A1P-105)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-S241	2437523.50	1961 Aug 12	Polaris A1	-	A1E-37 (A1P-98)	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1961-A189	2437529.50	1961 Aug 18	Polaris A2	-	A2X-22	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1961-S302	2437572.12	1961 Sep 29 1500	Polaris A1	-	A1X-50	0.000	USNSPO	MS	-	-	R&D	Cleary95/Wire	-	EST
1961-S318	2437577.14	1961 Oct 4 1522	Polaris A2	-	A2X-13	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	EST
1961-S335	2437589.12	1961 Oct 16 1454	Polaris A1	-	A1E-38 (A1P-100)	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-S343	2437596.18	1961 Oct 23 1622	Polaris A2	-	A2E-X1 (A2X-4)	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	[or 1638]
1961-S367	2437607.08	1961 Nov 3 1401:32	Polaris A1	-	A1E-39	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-S368	2437607.15	1961 Nov 3 1530	Polaris A1	-	A1E-40	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-S369	2437607.21	1961 Nov 3 1700	Polaris A1	-	A1E-41 (A1P-12)	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1961-S370	2437612.17	1961 Nov 8 1610	Polaris A2	-	A2E-X2 (A2X-15)	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1961-S372	2437613.67	1961 Nov 10 0400	Polaris A2	-	A2X-14 (A2G-1)	0.000	USNSPO	MF	U	-	R&D	Wire/Ulrich	Cleary95	-
1961-S401	2437635.19	1961 Dec 1 1629	Polaris A2	-	A2X-23	0.000	USNSPO	MS	-	-	Test	Ulrich/Wire	Cleary95	-
1961-S406	2437639.64	1961 Dec 6 0322	Polaris A1	-	A1X-51	0.000	USNSPO	MS	-	-	R&D	Cleary95	-	-
1962-A11	2437688.21	1962 Jan 23 1705:37	Polaris A2	-	A2X-17 (A2G-2)	0.000	USNSPO	MF	U	-	R&D	Cleary95/Wire	-	-
1962-S49	2437725.32	1962 Mar 1 1945:01	Polaris A2	-	A2X-27 (A2G-5)	0.000	USNSPO	MS	-	-	R&D	nsf-koenn	Cleary95	-
1962-A40	2437754.39	1962 Mar 30 2128	Polaris A2	-	A2X-28 (A2M-3)	0.000	USNSPO	MF	U	-	R&D	FDC	MR620409-11	-
1962-S107	2437780.20	1962 Apr 25 1650:26	Polaris A2	-	A2PE-1	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1962-S122	2437788.57	1962 May 4 0141:02	Polaris A2	-	A2X-18 (A2MG-1)	0.000	USNSPO	MS	-	-	R&D	Cleary95/Wire	-	-
1962-S126	2437791.47	1962 May 6 2317:49	Polaris A1	-	A1P?	0.000	USNSPO	MS	-	-	Nuclear Test	DOMINIC	McManus	Az. 243
1962-A77	2437794.43	1962 May 9 2215:24	Polaris A2	-	A2PE-3	0.000	USNSPO	MF	U	-	OT	Wire/Cleary95	-	-
1962-S129	2437796.27	1962 May 11 1826:04	Polaris A2	-	A2PE-4	0.000	USNSPO	MS	-	-	OT	nsf-koenn	NRL-FR-5881	-
1962-S139	2437808.25	1962 May 23 1801:36	Polaris A2	-	A2PE-5	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1962-S140	2437808.33	1962 May 23 1948:00	Polaris A2	-	A2PE-6	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1962-S156	2437818.30	1962 Jun 2 1916:01	Polaris A2	-	A2PE-7	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1962-S157	2437818.44	1962 Jun 2 2234:57	Polaris A2	-	A2PE-8	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1962-A91	2437820.08	1962 Jun 4 1400	Polaris A2	-	A2X-30 (A2MG-2)	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	MR620611-10	-
1962-S208	2437845.09	1962 Jun 29 1405:58	Polaris A2	-	A2X-29 (A2MG-4)	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1962-S239	2437858.27	1962 Jul 12 1831:57	Polaris A2	-	A2PE-11	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1962-S240	2437858.34	1962 Jul 12 2005:13	Polaris A2	-	A2PE-10	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1962-S249	2437867.37	1962 Jul 21 2049:54	Polaris A2	-	A2P-12	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1962-S250	2437867.43	1962 Jul 21 2219:15	Polaris A2	-	A2P-13	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1962-S251	2437867.49	1962 Jul 21 2349:14	Polaris A2	-	A2P-2	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1962-S264	2437872.24	1962 Jul 26 1750:02	Polaris A2	-	A2TF-1	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1962-S265	2437872.50	1962 Jul 27	Polaris A1	-	A1P-1	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1962-S266	2437872.50	1962 Jul 27	Polaris A1	-	A1P-2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1962-S267	2437872.50	1962 Jul 27	Polaris A1	-	A1P-3	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1962-S268	2437872.50	1962 Jul 27	Polaris A1	-	A1P-4	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1962-S280	2437884.31	1962 Aug 7 1920:05	Polaris A3	-	A3X-1	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1962-S287	2437887.39	1962 Aug 10 2127:00	Polaris A2	-	A2TF-2	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-A140	2437894.19	1962 Aug 17 1634:10	Polaris A2	-	A2TF-3	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1962-S312	2437904.13	1962 Aug 27 1502:03	Polaris A2	-	A2TF-4	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S327	2437914.17	1962 Sep 6 1600	Polaris A3	-	A3X-2	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1962-S333	2437921.84	1962 Sep 14 0809:06	Polaris A1	-	A1T-6	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1962-S334	2437923.36	1962 Sep 15 2037:10	Polaris A1	-	A1T-5	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1962-S358	2437937.50	1962 Q4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	JCM	-	-
1962-S359	2437937.50	1962 Q4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	JCM	-	-
1962-S360	2437937.50	1962 Q4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	JCM	-	-
1962-S361	2437937.50	1962 Q4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	JCM	-	-
1962-A166	2437943.15	1962 Oct 5 1530	Polaris A3	-	A3X-3	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	[Not Oct 6]
1962-S389	2437951.50	1962 Oct 14	Polaris A1	-	A1T-8	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1962-A170	2437951.50	1962 Oct 14	Polaris A1	-	A1T-7	0.000	USNSPO	MF	U	-	Test	Cleary95	-	-
1962-A189	2437974.15	1962 Nov 5 1529:59	Polaris A3	-	A3X-4	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1962-M31	2437986.21	1962 Nov 17 1706:17	Polaris A3	-	A3X-5	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	MR621126-15	-
1962-M39	2438005.10	1962 Dec 6 1419:04	Polaris A3	-	A3X-6	0.000	USNSPO	MF	U	-	Test	nsf-koenn	MR621217-12	-
1962-S571	2438017.82	1962 Dec 19 0733:44	Polaris A2	-	A2X-24 (A2G-4)	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S33	2438064.50	1963 Feb 4	Polaris A2	-	A2P-108	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S34	2438064.50	1963 Feb 4	Polaris A2	-	A2P-109	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S35	2438065.50	1963 Feb 5	Polaris A2	-	A2P-110	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S36	2438065.50	1963 Feb 5	Polaris A2	-	A2P-111	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S39	2438068.17	1963 Feb 7 1559:59	Polaris A3	-	A3X-8	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S41	2438072.15	1963 Feb 11 1530	Polaris A3	-	A3X-7	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-A25	2438079.08	1963 Feb 18 1400:02	Polaris A3	-	A3X-9	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	SP-4004	-
1963-S62	2438082.25	1963 Feb 21 1756:07	Polaris A2	-	A2P-117	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95/Wire	-
1963-A32	2438096.24	1963 Mar 7 1748:15	Polaris A2	-	A2P-116	0.000	USNSPO	MF	U	-	OT	MR630318-10	Cleary95	-
1963-S83	2438096.28	1963 Mar 7 1848:15	Polaris A2	-	A2P-120	0.000	USNSPO	MS	-	-	OT	MR630318-10/Wire	Cleary95	-
1963-S92	2438102.50	1963 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S93	2438102.50	1963 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S94	2438102.50	1963 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S104	2438108.17	1963 Mar 19 1600:02	Polaris A3	-	A3X-11	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1963-S138	2438128.17	1963 Apr 8 1600:02	Polaris A3	-	A3X-18	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-A52	2438130.36	1963 Apr 10 2033:07	Polaris A3	-	A3X-14	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	SP-4004	-
1963-S152	2438136.50	1963 Apr 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S153	2438136.50	1963 Apr 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S154	2438136.50	1963 Apr 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S159	2438137.50	1963 Apr 18	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S160	2438137.50	1963 Apr 18	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S161	2438137.50	1963 Apr 18	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S176	2438146.27	1963 Apr 26 1831:23	Polaris A3	-	A3X-20	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1963-S195	2438160.24	1963 May 10 1744:04	Polaris A3	-	A3X-12	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S206	2438167.18	1963 May 17 1614:59	Polaris A3	-	A3X-15	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S252	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S253	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S254	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S255	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S256	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S257	2438184.50	1963 Jun 4	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S261	2438187.18	1963 Jun 6 1616:59	Polaris A3	-	A3X-25	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-A90	2438194.19	1963 Jun 13 1630:02	Polaris A2	-	A2P-121	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1963-S273	2438194.21	1963 Jun 13 1705:34	Polaris A2	-	A2P-154	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95/Wire	-
1963-S277	2438198.18	1963 Jun 17 1614:02	Polaris A3	-	A3X-24	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S290	2438202.16	1963 Jun 21 1544:03	Polaris A3	-	A3X-22	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95/Wire	-
1963-S291	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S292	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S293	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S294	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S295	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S296	2438204.50	1963 Jun 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S320	2438213.17	1963 Jul 2 1600:04	Polaris A2	-	A2P-118	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S321	2438213.19	1963 Jul 2 1630:03	Polaris A2	-	A2P-167	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S323	2438214.24	1963 Jul 3 1748:03	Polaris A3	-	A3X-26	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S341	2438229.54	1963 Jul 19 0100	Polaris A3	-	A3X-27	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S356	2438237.70	1963 Jul 27 0455:01	Polaris A3	-	A3X-33	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S383	2438251.22	1963 Aug 9 1714:03	Polaris A2	-	A2P-210	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1963-S384	2438251.26	1963 Aug 9 1819:43	Polaris A2	-	A2P-209	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1963-S386	2438255.66	1963 Aug 14 0356:05	Polaris A3	-	A3X-36	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S390	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S391	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S392	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S393	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S394	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S395	2438258.50	1963 Aug 17	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S396	2438261.67	1963 Aug 20 0400:03	Polaris A3	-	A3X-37	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S402	2438265.21	1963 Aug 23 1701:06	Polaris A2	-	A2P-208	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S403	2438265.24	1963 Aug 23 1741:04	Polaris A2	-	A2P-211	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S411	2438272.57	1963 Aug 31 0135:04	Polaris A3	-	A3X-38	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S422	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S423	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S424	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S425	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S426	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MF	U	-	OT	Cleary95	-	-
1963-S427	2438276.50	1963 Sep 4	Polaris A1	-	A1	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S460	2438299.64	1963 Sep 27 0325:00	Polaris A3	-	A3X-39	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1963-S470	2438304.32	1963 Oct 1 1939:05	Polaris A2	-	A2P-222	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S477	2438306.72	1963 Oct 4 0518:07	Polaris A3	-	A3X-41	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95/Wire	-
1963-S496	2438319.19	1963 Oct 16 1630:02	Polaris A2	-	A2P-221	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S508	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S509	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S510	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S511	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S512	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S513	2438326.50	1963 Oct 24	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1963-S516	2438329.18	1963 Oct 26 1614:04	Polaris A3	-	A3X-43	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1963-S547	2438345.28	1963 Nov 11 1848:05	Polaris A3	-	A3X-42	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S556	2438350.20	1963 Nov 16 1654:42	Polaris A2	-	A2P-233	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1963-S561	2438360.76	1963 Nov 27 0610:59	Polaris A3	-	A3X-44	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1963-S591	2438373.63	1963 Dec 10 0311:17	Polaris A3	-	A3X-48	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1963-S593	2438374.54	1963 Dec 11 0100:06	Polaris A3	-	A3X-46	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95/Wire	-
1964-S18	2438402.50	1964 Jan 8 0000:10	Polaris A3	-	A3X-50	0.000	USNSPO	MS	-	-	Test	Cleary95	SP-4005	-
1964-S26	2438408.19	1964 Jan 13 1630:04	Polaris A2	-	A2P-243	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1964-S27	2438408.41	1964 Jan 13 2150:01	Polaris A2	-	A2P-244	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-A03	2438408.49	1964 Jan 13 2339:00	Polaris A2	-	A2P-226	0.000	USNSPO	MF	U	-	OT	nsf-koenn	Cleary95	-
1964-S40	2438415.21	1964 Jan 20 1702:01	Polaris A3	-	A3X-57 (A3Y-1)	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	RB A hit SS
1964-A13	2438421.20	1964 Jan 26 1647:03	Polaris A2	-	A2P-227	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	Accidental RSO
1964-S52	2438421.33	1964 Jan 26 1959:03	Polaris A2	-	A2P-191	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S72	2438429.20	1964 Feb 3 1641:07	Polaris A2	-	A2P-255	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S100	2438443.21	1964 Feb 17 1703:04	Polaris A2	-	A2P-257	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S128	2438457.19	1964 Mar 2 1630:03	Polaris A2	-	A2P-294	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S140	2438466.02	1964 Mar 11 1230:05	Polaris A3	-	A3X-58 (A3Y-2)	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	-	-
1964-S153	2438471.19	1964 Mar 16 1630:14	Polaris A2	-	A2P-288	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S707	2438470.50	1964 Mar 16	Polaris A2	-	A2P	0.000	USNSPO	MS	-	-	OT	nsf-koenn	-	-
1964-S708	2438474.50	1964 Mar 20	Polaris A2	-	A2P	0.000	USNSPO	MS	-	-	OT	nsf-koenn	-	-
1964-S794	2438486.50	1964 Apr 1	Polaris A3	-	A3X-53	0.000	USNSPO	MS	-	-	Test	McManus	-	First PMR A3X

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S189	2438492.19	1964 Apr 6 1630:03	Polaris A2	-	A2P-320	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S795	2438493.50	1964 Apr 8	Polaris A3	-	A3X-55	0.000	USNSPO	MF	U	-	Test	McManus	-	-
1964-S217	2438506.19	1964 Apr 20 1630:03	Polaris A2	-	A2P-286	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S218	2438506.21	1964 Apr 20 1700:09	Polaris A2	-	A2P-119	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S796	2438527.50	1964 May 12	Polaris A3	-	A3X-60	0.000	USNSPO	MS	-	-	Test	McManus	-	-
1964-S264	2438541.27	1964 May 25 1829:05	Polaris A3	-	A3P-6	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1964-S265	2438541.30	1964 May 25 1915:06	Polaris A3	-	A3P-1	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1964-S282	2438555.19	1964 Jun 8 1634:07	Polaris A3	-	A3P-2	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1964-S283	2438555.21	1964 Jun 8 1709:07	Polaris A3	-	A3P-4	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1964-S306	2438570.26	1964 Jun 23 1816:03	Polaris A2	-	A2P-296	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S307	2438570.33	1964 Jun 23 1953:03	Polaris A2	-	A2P-297	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S308	2438570.40	1964 Jun 23 2131:02	Polaris A2	-	A2P-319	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S322	2438578.52	1964 Jul 2 0024:03	Polaris A3	-	A3X-10	0.000	USNSPO	MS	-	-	Test	Cleary95	-	-
1964-S330	2438585.30	1964 Jul 8 1915:03	Polaris A2	-	A2P-295	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S331	2438585.34	1964 Jul 8 2015:03	Polaris A2	-	A2P-155	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S332	2438585.39	1964 Jul 8 2116:02	Polaris A2	-	A2P-232	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S357	2438593.20	1964 Jul 16 1654:04	Polaris A3	-	A3P-19	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S358	2438593.23	1964 Jul 16 1724:07	Polaris A3	-	A3P-3	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1964-S391	2438607.19	1964 Jul 30 1630:03	Polaris A3	-	A3P-14	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S392	2438607.21	1964 Jul 30 1700:03	Polaris A3	-	A3P-32	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Note01/Cleary95	-
1964-S408	2438614.19	1964 Aug 6 1630	Polaris A3	-	A3P-7	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1964-S436	2438628.19	1964 Aug 20 1630:02	Polaris A3	-	A3P-33	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S459	2438644.19	1964 Sep 5 1630:03	Polaris A3	-	A3P-13	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S476	2438660.19	1964 Sep 21 1630:03	Polaris A3	-	A3P-38	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S490	2438667.19	1964 Sep 28 1630:03	Polaris A3	-	A3P-57	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S519	2438682.20	1964 Oct 13 1650:04	Polaris A3	-	A3P-17	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S527	2438687.50	1964 Oct 19	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S528	2438687.50	1964 Oct 19	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S529	2438687.50	1964 Oct 19	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S530	2438687.50	1964 Oct 19	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S544	2438696.50	1964 Oct 28	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S545	2438696.50	1964 Oct 28	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S546	2438696.50	1964 Oct 28	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S547	2438696.50	1964 Oct 28	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1964-S559	2438700.25	1964 Oct 31 1804:03	Polaris A3	-	A3P-72	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1964-S799	2438719.50	1964 Nov 20	Polaris A3	-	A3X	0.000	USNSPO	MS	-	-	OT	PMRHist64	-	-
1964-S800	2438724.50	1964 Nov 25	Polaris A3	-	A3X	0.000	USNSPO	MS	-	-	OT	PMRHist64	-	-
1964-S623	2438713.21	1964 Nov 13 1657:03	Polaris A3	-	A3P-87	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1964-S666	2438732.19	1964 Dec 2 1630:04	Polaris A3	-	A3P-100	0.000	USNSPO	MS	-	-	OT	CCMOPS/Wire	-	-
1964-S682	2438746.19	1964 Dec 16 1634:03	Polaris A3	-	A3P-45	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1964-S698	2438752.19	1964 Dec 22 1630:04	Polaris A3	-	A3P-46	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1965-S32	2438772.22	1965 Jan 11 1713:03	Polaris A3	-	A3P-67	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1965-S45	2438784.19	1965 Jan 23 1630:08	Polaris A3	-	A3P-157	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1965-S77	2438797.50	1965 Feb 6	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S78	2438797.50	1965 Feb 6	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S79	2438797.50	1965 Feb 6	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S80	2438797.50	1965 Feb 6	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S85	2438800.23	1965 Feb 8 1725:05	Polaris A3	-	A3P-5	0.000	USNSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1965-S92	2438803.50	1965 Feb 12	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S93	2438803.50	1965 Feb 12	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S96	2438807.19	1965 Feb 15 1630:03	Polaris A3	-	A3P-171	0.000	USNSPO	MS	-	-	OT	CCMOPS/Wire	-	-
1965-S121	2438821.22	1965 Mar 1 1718:06	Polaris A3	-	A3P-172	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1965-S133	2438824.55	1965 Mar 5 0112:59	Polaris A2E	-	A2EA-193	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1965-S160	2438835.27	1965 Mar 15 1822:02	Polaris A3	-	A3P-158	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1965-S161	2438835.30	1965 Mar 15 1909:01	Polaris A3	-	A3P-21	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1965-S204	2438849.27	1965 Mar 29 1830:07	Polaris A3	-	A3P-11	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1965-A56	2438864.76	1965 Apr 14 0609:19	Polaris A1	-	C2X-1	0.000	USNSPO	MF	U	-	Test	Cleary95/Wire	MR650419-9	-
1965-S328	2438911.50	1965 May 31	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S329	2438911.50	1965 May 31	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S357	2438926.50	1965 Jun 15	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S358	2438926.50	1965 Jun 15	Polaris A2	-	A2	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S361	2438928.08	1965 Jun 16 1356:04	Polaris A1	-	C2X-2	0.000	USNSPO	MS	-	-	Test	Cleary95/Wire	-	-
1965-S463	2438984.29	1965 Aug 11 1901:01	Polaris A1	-	C2X-3	0.000	USNSPO	MS	-	-	Test	nsf-koenn	MR650816-10	-
1965-S791	2439025.50	1965 Sep 22	Polaris A3	-	A3X-61	0.000	USNSPO	MS	-	-	Test	PMRHist65	-	-
1965-S596	2439069.50	1965 Nov 5	Polaris A3	-	A3	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S597	2439069.50	1965 Nov 5	Polaris A3	-	A3	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S598	2439069.50	1965 Nov 5	Polaris A3	-	A3	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S599	2439069.50	1965 Nov 5	Polaris A3	-	A3	0.000	USNSPO	MS	-	-	OT	Cleary95	-	-
1965-S615	2439077.44	1965 Nov 12 2228:14	Polaris A1	-	C2X-4	0.000	USNSPO	MS	-	-	Test	SpaceWorld	Cleary95	-
1965-S662	2439101.31	1965 Dec 6 1925:41	Polaris A3	-	A3P-42	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1965-S690	2439115.19	1965 Dec 20 1633:03	Polaris A3	-	A3P-188	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1966-S62	2439143.20	1966 Jan 17 1642:04	Polaris A3	-	A3P-393	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1966-S86	2439157.19	1966 Jan 31 1630:03	Polaris A3	-	A3P-388	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S113	2439174.19	1966 Feb 17 1630:03	Polaris A3	-	A3P-14	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S131	2439181.21	1966 Feb 24 1704:04	Polaris A3	-	A3P-380	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S132	2439181.50	1966 Feb 25	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S133	2439181.50	1966 Feb 25	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S143	2439185.50	1966 Mar 1	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S144	2439185.50	1966 Mar 1	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S147	2439188.20	1966 Mar 3 1650:02	Polaris A3	-	A3P-135	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S157	2439195.17	1966 Mar 10 1600:02	Polaris A3	-	A3P-383	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S164	2439198.50	1966 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S165	2439198.50	1966 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S166	2439198.50	1966 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S167	2439198.50	1966 Mar 14	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S171	2439201.50	1966 Mar 17	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S172	2439201.50	1966 Mar 17	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S202	2439216.17	1966 Mar 31 1600	Polaris A3	-	A3P-396	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1966-S213	2439223.17	1966 Apr 7 1600	Polaris A3	-	A3P-445	0.000	USNSPO	MF	U	-	OT	Cleary95/Wire	-	-
1966-S214	2439223.19	1966 Apr 7 1630	Polaris A3	-	A3P-400	0.000	USNSPO	MS	-	-	OT	Cleary95/Wire	-	-
1966-S217	2439230.17	1966 Apr 14 1600	Polaris A3	-	A3P-375	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S226	2439237.17	1966 Apr 21 1600	Polaris A3	-	A3P-440	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1966-S227	2439237.19	1966 Apr 21 1630	Polaris A3	-	A3P-431	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1966-S228	2439237.30	1966 Apr 21 1915:02	Polaris A3	-	A3P-437	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S306	2439287.17	1966 Jun 10 1609	Polaris A3	-	A3P-421	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1966-S330	2439300.17	1966 Jun 23 1600	Polaris A3	-	A3P-484	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1966-S364	2439318.17	1966 Jul 11 1600	Polaris A3	-	A3P-399	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S388	2439332.17	1966 Jul 25 1600	Polaris A3	-	A3P-419	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S475	2439370.21	1966 Sep 1 1700:00	Polaris A3	-	A3P-386	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S496	2439388.50	1966 Sep 20	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S497	2439388.50	1966 Sep 20	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S508	2439396.50	1966 Sep 28	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S509	2439396.50	1966 Sep 28	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S535	2439409.17	1966 Oct 10 1610:03	Polaris A3	-	A3P-447	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S574	2439430.18	1966 Oct 31 1615	Polaris A3	-	A3P-397	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S575	2439430.20	1966 Oct 31 1645	Polaris A3	-	A3P-450	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S616	2439443.50	1966 Nov 14	Polaris A3	-	A3P-512	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1966-S617	2439444.20	1966 Nov 14 1650:02	Polaris A3	-	A3P-394	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S625	2439447.17	1966 Nov 17 1609:14	Polaris A3	-	A3TX-1 (A3P-492)	0.000	USNSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1966-S656	2439458.18	1966 Nov 28 1615:02	Polaris A3	-	A3P-389	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1966-S657	2439458.20	1966 Nov 28 1645:02	Polaris A3	-	A3P-378	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1967-S52	2439497.19	1967 Jan 6 1633:48	Polaris A3	-	A3TX-2 (A3P-496)	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1967-S133	2439552.07	1967 Mar 2 1345:01	Polaris A3	-	A3TX-4 (A3P-531)	0.000	USNSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1967-S141	2439555.61	1967 Mar 6 0245:01	Polaris A3	-	A3P-549	0.000	USNSPO	MU	-	-	OT	Cleary95/Wire	-	-
1967-S189	2439584.48	1967 Apr 3 2325:01	Polaris A3	-	A3P-401	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1967-S233	2439608.25	1967 Apr 27 1800:01	Polaris A3	-	A3P-510	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1967-S650	2439627.50	1967 May 17	Polaris A3	-	A3TX-06 (A3P-558)	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-S651	2439662.50	1967 Jun 21	Polaris A3	-	A3TX-07 (A3P-573)	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-A157	2439662.50	1967 Jun 21	Polaris A3	-	A3TX-08 (A3P-588)	0.000	USNSPO	MF	U	-	Target	McManus	-	-
1967-S315	2439664.50	1967 Jun 23	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S316	2439664.50	1967 Jun 23	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S317	2439664.50	1967 Jun 23	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S318	2439664.50	1967 Jun 23	Polaris A2	-	A2	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S339	2439679.50	1967 Jul 8	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S340	2439679.50	1967 Jul 8	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S362	2439703.14	1967 Jul 31 1518:04	Polaris A3	-	A3P-529	0.000	USNSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1967-S426	2439742.16	1967 Sep 8 1545:02	Polaris A3	-	A3P-377	0.000	USNSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1967-S434	2439745.50	1967 Sep 12	Polaris A3	-	A3TY-1 (A3P-613)	0.000	USNSPO	MF	U	-	Test	Cleary95	FBM	-
1967-S514	2439796.22	1967 Nov 1 1718:07	Polaris A3	-	A3TY-3 (A3P-083)	0.000	USNSPO	MU	-	-	Test	nsf-koenn	Cleary95	-
1967-S515	2439795.50	1967 Nov 1	Polaris A3	-	A3P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S516	2439795.50	1967 Nov 1	Polaris A3	-	A3P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S517	2439795.50	1967 Nov 1	Polaris A3	-	A3P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S522	2439800.50	1967 Nov 6	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S523	2439800.50	1967 Nov 6	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S524	2439800.50	1967 Nov 6	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S547	2439819.50	1967 Nov 25	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S548	2439819.50	1967 Nov 25	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S549	2439819.50	1967 Nov 25	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S550	2439819.50	1967 Nov 25	Polaris A2	-	A2P	0.000	USNSPO	MU	-	-	OT	Cleary95	-	-
1967-S648	2439823.50	1967 Nov 29	Polaris A3	-	A3TX-03 (A3P-514)	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-S649	2439830.50	1967 Dec 6	Polaris A3	-	A3TX-05 (A3P-544)	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-S645	2439490.50	1967	Polaris A1	-	Mk 2 RB	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-S646	2439490.50	1967	Polaris A1	-	Mk 2 RB	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1967-S647	2439490.50	1967	Polaris A1	-	Mk 2 RB	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1968-S689	2439976.50	1968 May?	Polaris A1	-	A1SX-1	0.000	USNSPO	MS	-	-	Target	McManus	-	-
1968-S690	2439976.50	1968 May?	Polaris A1	-	A1SX-2	0.000	SSPO	MF	U	-	Target	McManus	-	-
1968-S691	2439855.50	1968	Polaris A1	-	Mk 2 RB	0.000	SSPO	MS	-	-	Target	McManus	-	-
1968-S692	2439931.50	1968 Mar 16	Polaris A3	-	A3TY-04 (A3P-091)	0.000	SSPO	MS	-	-	Target	McManus	-	-
1968-S693	2439950.50	1968 Apr 4	Polaris A3	-	A3TY-05 (A3P-102)	0.000	SSPO	MS	-	-	Target	McManus	-	-
1968-S694	2439957.50	1968 Apr 11	Polaris A3	-	A3TY-07 (A3P-654)	0.000	SSPO	MS	-	-	Target	McManus	-	-
1968-S695	2439965.50	1968 Apr 19	Polaris A3	-	A3TY-06 (A3P-103)	0.000	SSPO	MS	-	-	Target	McManus	-	-
1968-S77	2439864.26	1968 Jan 8 1811	Polaris A2	-	A2P-273	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S81	2439871.24	1968 Jan 15 1743	Polaris A2	-	A2P-138	0.000	SSPO	MF	U	-	OT	Cleary95/Wire	-	-
1968-S98	2439880.22	1968 Jan 24 1715	Polaris A2	-	A2P-94	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S104	2439887.21	1968 Jan 31 1700	Polaris A2	-	A2P-91	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S132	2439902.18	1968 Feb 15 1615	Polaris A3	-	A3P-670 (A3E/UK-670)	0.000	RN	MS	-	-	OT	Cleary95/Wire	-	-
1968-S165	2439920.18	1968 Mar 4 1615	Polaris A3	-	A3P-666 (A3E/UK-666)	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-
1968-S262	2439956.50	1968 Apr 10	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S263	2439956.50	1968 Apr 10	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S264	2439956.50	1968 Apr 10	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S265	2439956.50	1968 Apr 10	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S284	2439972.50	1968 Apr 26	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S285	2439972.50	1968 Apr 26	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S286	2439972.50	1968 Apr 26	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S287	2439972.50	1968 Apr 26	Polaris A3	-	A3P	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S371	2440019.17	1968 Jun 11 1600:01	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S379	2440026.25	1968 Jun 18 1807	Polaris A2E	-	A2E	0.000	SSPO	MF	U	-	OT	Cleary95/Wire	-	-
1968-S395	2440049.17	1968 Jul 11 1600	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S400	2440057.17	1968 Jul 19 1600	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S428	2440068.17	1968 Jul 30 1607	Polaris A2E	-	A2E	0.000	SSPO	MS	-	-	OT	Cleary95/Wire	-	-
1968-S455	2440082.50	1968 Aug 14 0000	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S479	2440098.14	1968 Aug 29 1515	Polaris A3	-	A3T-208	0.000	SSPO	MS	-	-	OT	nsf-koenn	Cleary95	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S480	2440098.17	1968 Aug 29 1600	Polaris A3	-	A3T-347	0.000	SSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1968-S492	2440110.17	1968 Sep 10 1600	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S511	2440126.25	1968 Sep 26 1800:03	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1968-S542	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S543	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S544	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S545	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1968-S546	2440150.50	1968 Oct 21	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1969-S147	2440273.24	1969 Feb 20 1741:02	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1969-S222	2440308.17	1969 Mar 27 1600:03	Polaris A3	-	A3E-667	0.000	RN	MU	-	-	OT	nsf-koenn	Cleary95	-
1969-S226	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1969-S227	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1969-S228	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1969-S229	2440308.50	1969 Mar 28	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1969-S252	2440316.21	1969 Apr 4 1700	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1969-S265	2440326.19	1969 Apr 14 1630	Polaris A3	-	A3E-645	0.000	RN	MU	-	-	OT	nsf-koenn	Cleary95	-
1969-S415	2440427.17	1969 Jul 24 1610	Polaris A3	-	A3E	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1969-S450	2440445.15	1969 Aug 11 1530	Polaris A3	-	A3E	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1969-S456	2440453.15	1969 Aug 19 1530	Polaris A3	-	A3E	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1969-S507	2440483.17	1969 Sep 18 1600	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S525	2440495.10	1969 Sep 30 1430	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S546	2440510.15	1969 Oct 15 1530	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S548	2440510.30	1969 Oct 15 1910	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S557	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S558	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S559	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S560	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S561	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S562	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S563	2440514.50	1969 Oct 20	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S579	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S580	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S581	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S582	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S583	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S584	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S585	2440523.50	1969 Oct 29	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S586	2440525.19	1969 Oct 30 1630	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S627	2440541.21	1969 Nov 15 1700	Polaris A2E	-	A2E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S633	2440550.19	1969 Nov 24 1637	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1969-S642	2440558.19	1969 Dec 2 1630	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S105	2440624.19	1970 Feb 6 1630	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S286	2440687.19	1970 Apr 10 1630	Polaris A3	-	A3E	0.000	SSPO	MF	U	-	OT	CCMOPS/Wire	-	-
1970-S287	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S288	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S289	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S290	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S291	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S292	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S293	2440687.50	1970 Apr 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S313	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S314	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S315	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S316	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S317	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S318	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S319	2440697.50	1970 Apr 21	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S349	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S350	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S351	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S352	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S353	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S354	2440717.50	1970 May 11	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	CCMOPS	-	-
1970-S366	2440729.25	1970 May 22 1800	Polaris A3	-	A3E	0.000	SSPO	MU	-	-	OT	nsf-koenn	CCMOPS	-
1970-S383	2440739.15	1970 Jun 1 1530	Polaris A3	-	A3E-671	0.000	RN	MU	-	-	OT	nsf-koenn	Cleary95	-
1970-S397	2440756.15	1970 Jun 18 1530	Polaris A3	-	A3E-468	0.000	RN	MU	-	-	OT	nsf-koenn	Cleary95	-
1970-S498	2440829.50	1970 Aug 31	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S499	2440829.50	1970 Aug 31	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S500	2440829.50	1970 Aug 31	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S507	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S508	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S509	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S510	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S511	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S512	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1970-S513	2440838.50	1970 Sep 9	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S180	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S181	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S182	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S183	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S184	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S185	2441029.50	1971 Mar 19	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S198	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S199	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S200	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S201	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S202	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S203	2441034.50	1971 Mar 24	Polaris A3	-	A3	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S214	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S215	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S216	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S217	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S218	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S219	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S220	2441040.50	1971 Mar 30	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S233	2441056.50	1971 Apr 15	Polaris A2	-	A2S-01	0.000	SSPO	MS	-	-	Target	Safeguard	-	-
1971-S269	2441078.50	1971 May 7	Polaris A2	-	A2S-03	0.000	SSPO	MS	-	-	Target	Safeguard	-	-
1971-S406	2441186.50	1971 Aug 23	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S407	2441186.50	1971 Aug 23	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S408	2441186.50	1971 Aug 23	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S419	2441195.50	1971 Sep 1	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S420	2441195.50	1971 Sep 1	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S421	2441195.50	1971 Sep 1	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S422	2441195.50	1971 Sep 1	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S423	2441195.50	1971 Sep 1	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S428	2441196.50	1971 Sep 2	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S429	2441196.50	1971 Sep 2	Polaris A2	-	A2	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1971-S550	2441265.50	1971 Nov 10	Polaris A2	-	A2S-02	0.000	SSPO	MS	-	-	Target	Safeguard	-	-
1971-S558	2441267.50	1971 Nov 12	Polaris A2	-	A2S-04	0.000	SSPO	MS	-	-	Target	Safeguard	-	-
1971-S596	2441293.50	1971 Dec 8	Polaris A3	-	A3S-01	0.000	SSPO	MS	-	-	Target	Safeguard	-	-
1972-S65	2441352.18	1972 Feb 4 1615	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1972-S100	2441383.19	1972 Mar 6 1630	Polaris A3	A3T	A3T	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-
1972-S178	2441432.17	1972 Apr 24 1600	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1972-S330	2441596.12	1972 Oct 5 1500	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S67	2441727.19	1973 Feb 13 1629:59	Polaris A3	A3T	A3T	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1974-S88	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S89	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S90	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S91	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S92	2442084.50	1974 Feb 6	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S208	2442199.12	1974 May 31 1459:59	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	nsf-koenn	Cleary95	-
1974-S212	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S213	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S214	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S215	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S216	2442207.50	1974 Jun 9	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S269	2442245.12	1974 Jul 16 1459:59	Polaris A3	A3T	A3T	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1974-S276	2442255.14	1974 Jul 26 1523:00	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S278	2442269.13	1974 Aug 9 1512:59	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S285	2442287.12	1974 Aug 27 1500:00	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S348	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S349	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S350	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S351	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1974-S352	2442335.50	1974 Oct 15	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S120	2442515.12	1975 Apr 12 1459	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S139	2442529.13	1975 Apr 26 1510	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S201	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S202	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S203	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S204	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S205	2442581.50	1975 Jun 18	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1975-S325	2442739.17	1975 Nov 22 1600:02	Polaris A3	A3T	A3T	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1976-S62	2442797.50	1976 Jan 20	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S63	2442797.50	1976 Jan 20	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S77	2442801.50	1976 Jan 24	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S78	2442801.50	1976 Jan 24	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S151	2442867.17	1976 Mar 29 1600	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S285	2443023.50	1976 Sep 2	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S286	2443023.50	1976 Sep 2	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S288	2443028.50	1976 Sep 7	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S289	2443028.50	1976 Sep 7	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S294	2443040.23	1976 Sep 18 1725	Polaris A3	A3T	A3T	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S199	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S200	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S201	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S202	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S203	2443310.50	1977 Jun 16	Polaris A3	A3T	A3T?	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S215	2443339.17	1977 Jul 14 1600:00	Polaris A3	A3T	A3T	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-
1977-S245	2443399.48	1977 Sep 12 2330	Polaris A3	A3T	A3TK-PA	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1977-S278	2443456.44	1977 Nov 8 2230	Polaris A3	A3T	A3TK-PB	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1978-S169	2443688.38	1978 Jun 28 2100	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S175	2443696.50	1978 Jul 7	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1978-S176	2443696.50	1978 Jul 7	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1978-S177	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1978-S178	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1978-S179	2443701.50	1978 Jul 12	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1978-S189	2443717.48	1978 Jul 27 2330	Polaris A3	A3T	A3TK P-1	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1978-S213	2443772.17	1978 Sep 20 1600	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S235	2443833.22	1978 Nov 20 1723	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S243	2443843.42	1978 Nov 30 2200	Polaris A3	A3T	A3TK P-2	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1979-S66	2443925.21	1979 Feb 20 1700	Polaris A3	A3T	A3T?	0.000	RN	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-S111	2443967.50	1979 Apr 4	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1979-S112	2443967.50	1979 Apr 4	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1979-S114	2443968.49	1979 Apr 4 2347	Polaris A3	A3T	A3TK P-3	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1979-S117	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1979-S118	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1979-S119	2443974.50	1979 Apr 11	Polaris A3	A3T	A3TA	0.000	SSPO	MS	-	-	OT	FBM	-	-
1979-S158	2444060.56	1979 Jul 6 0120	Polaris A3	A3T	A3TK C9E	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1979-S197	2444117.68	1979 Sep 1 0416	Polaris A3	A3T	A3TK P-5	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1979-S239	2444186.42	1979 Nov 8 2200	Polaris A3	A3T	A3TK P-6	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1980-S68	2444320.48	1980 Mar 21 2330	Polaris A3	A3T	A3TK PT-2	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1980-S86	2444340.51	1980 Apr 11 0015	Polaris A3	A3T	A3TK PT-1	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1980-S110	2444378.52	1980 May 19 0030	Polaris A3	A3T	A3TK PT-3	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1980-S199	2444558.33	1980 Nov 14 2000	Polaris A3	A3T	A3TK PS-1	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1980-S209	2444562.19	1980 Nov 18 1630	Polaris A3	A3T	A3TK PS-2	0.000	RN	MS	-	-	Test	CCMOPS	-	-
1982-S49	2445000.19	1982 Jan 30 1630	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1982-S52	2445002.27	1982 Feb 1 1830	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1982-S53	2445004.19	1982 Feb 3 1630	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1982-S54	2445009.27	1982 Feb 8 1830	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1983-S101	2445470.16	1983 May 15 1546	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1983-S102	2445471.15	1983 May 16 1530	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1983-A24	2445495.12	1983 Jun 9 1500	Polaris A3	A3T	A3TK	0.000	RN	MF	U	-	OT	CCMOPS	-	-
1983-S110	2445495.17	1983 Jun 9 1605	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1983-S112	2445497.12	1983 Jun 11 1500	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1983-S113	2445497.20	1983 Jun 11 1643	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1985-S76	2446204.54	1985 May 19 0055	Polaris A3	A3T	A3TK	0.000	RN	MF	U	-	OT	CCMOPS	-	-
1985-A04	2446205.75	1985 May 20 0600	Polaris A3	A3T	A3TK	0.000	RN	MF	U	-	OT	CCMOPS	-	-
1985-S81	2446226.85	1985 Jun 10 0826	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1986-S67	2446637.44	1986 Jul 25 2230	Polaris A3	A3T	A3TK/A3R	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1986-S68	2446637.59	1986 Jul 26 0213	Polaris A3	A3T	A3TK/A3R	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1986-S78	2446644.43	1986 Aug 1 2215	Polaris A3	A3T	A3TK/A3R	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1986-S79	2446644.57	1986 Aug 2 0135	Polaris A3	A3T	A3TK/A3R	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1987-S78	2446901.89	1987 Apr 16 0925	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1987-S79	2446903.62	1987 Apr 18 0300	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1987-A08	2446925.91	1987 May 10 0945	Polaris A3	A3T	A3TK	0.000	RN	MF	U	-	OT	CCMOPS	-	-
1987-S85	2446925.96	1987 May 10 1107	Polaris A3	A3T	A3TK	0.000	RN	MS	-	-	OT	CCMOPS	-	-
1993-S17	2449045.36	1993 Feb 26 2045	STARS	-	FTU-1	0.000	SDC	MS	-	-	Test	JCM	-	-
1993-S56	2449224.92	1993 Aug 25 1000	STARS	-	M-1	0.000	SDC	MS	-	-	Target	JCM	-	-
1994-S50	2449555.50	1994 Jul 22	STARS	-	M-2 STARS II	0.000	SDC	MS	-	-	Target	JCM	-	-
1996-S54	2450327.15	1996 Aug 31 1541:49	STARS	-	M-3 STARS II	0.000	SDC	MS	-	-	Target	APL-PR960913	AWST960916-30	-
2001-A03	2452223.26	2001 Nov 9 1812	STARS	-	M-4 WCRRF	0.000	SMDC	MF	U	-	Target	Wire	-	-
2004-S71	2453354.74	2004 Dec 15 0545	STARS	-	M-5	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2005-S06	2453415.77	2005 Feb 14 0622	STARS	-	M-6	0.000	SMDC	MS	-	-	Target	Wire	-	-
2006-S05	2453790.17	2006 Feb 23 1609	STARS	-	M-7 FTO4-1	0.000	SMDC	MS	-	-	Target	Wire	-	-
2006-S48	2453980.22	2006 Sep 1 1722	STARS	-	M-8	0.000	SMDC	MS	-	-	Target	Wire	-	-
2007-A03	2454246.09	2007 May 25 1415	STARS	-	M-9	0.000	SMDC	MF	U	-	Target	Wire	-	-
2007-S42	2454372.33	2007 Sep 28 2001	STARS	-	-	0.000	SMDC	MS	-	-	Target	Wire	-	-
2008-S88	2454666.41	2008 Jul 18 2147	STARS	-	FTX-03	0.000	SMDC	MS	-	-	Target	Wire	-	-
2008-S70	2454806.34	2008 Dec 5 2004	STARS	-	-	0.000	SMDC	MS	-	-	Target	Wire	-	-
2011-S57	2455882.98	2011 Nov 17 1130	STARS	-	AHW FT1A	0.000	SMDC	MS	-	-	Hypersonic	Wire	-	-
2014-A14	2456894.85	2014 Aug 25 0825?	STARS	-	AHW FT2	0.000	SMDC	MF	U	-	Hypersonic	Wire	-	-
2017-S94	2458057.04	2017 Oct 30 1300	STARS	-	CPS FE-1	0.000	SMDC	MS	-	-	Hypersonic	Wire	-	-
2020-S17	2458928.85	2020 Mar 20 0830	STARS	-	CPS FE-2	0.000	SMDC	MS	-	-	Hypersonic	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S460	2440084.94	1968 Aug 16 1030	Poseidon C3	-	C3XD-01	-	-	-	-	CC	LC25C	-	-	500?	-	-
1968-S611	2440187.21	1968 Nov 26 1700	Poseidon C3	-	C3XD-02	-	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S78	2440243.17	1969 Jan 21 1600	Poseidon C3	-	C3XD-03	-	-	-	-	CC	LC25C	-	-	2?	-	-
1969-S144	2440272.17	1969 Feb 19 1605	Poseidon C3	-	C3XD-04	-	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S207	2440301.47	1969 Mar 20 2310	Poseidon C3	-	C3XD-05	USN Mk 3 RV x 14	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S257	2440321.42	1969 Apr 9 2202:01	Poseidon C3	-	C3XD-06	-	-	-	-	CC	LC25C	-	-	100?	-	-
1969-S341	2440366.45	1969 May 24 2255:02	Poseidon C3	-	C3XD-09	USN Mk 3 RV x 3	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S365	2440387.66	1969 Jun 15 0357:01	Poseidon C3	-	C3XD-10	USN Mk 3 RV x 10	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S396	2440411.99	1969 Jul 9 1150	Poseidon C3	-	C3XD-11	-	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S464	2440455.52	1969 Aug 22 0030	Poseidon C3	-	C3XD-12	-	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S505	2440482.19	1969 Sep 17 1637	Poseidon C3	-	C3XD-13	-	-	-	-	CC	LC25D	-	-	500?	-	-
1969-S601	2440529.17	1969 Nov 3 1600	Poseidon C3	-	C3XD-08	-	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S636	2440552.33	1969 Nov 26 2001	Poseidon C3	-	C3XT-17	Tactical config	-	-	-	CC	LC25C	-	-	500?	-	-
1969-S680	2440572.23	1969 Dec 16 1725	Poseidon C3	-	C3XT-18	-	-	-	EAG-154	ETR	SLBM	-	-	500?	-	-
1970-S80	2440610.25	1970 Jan 23 1800	Poseidon C3	-	C3XT-19	-	-	-	-	CC	LC25C	-	-	500?	-	-
1970-S102	2440622.36	1970 Feb 4 2038	Poseidon C3	-	C3XT-20	-	-	-	EAG-154	ETR	SLBM	-	-	100?	-	-
1970-S261	2440670.30	1970 Mar 24 1917	Poseidon C3	-	C3XT-22	-	-	-	EAG-154	ETR	SLBM	-	-	500?	-	-
1970-S357	2440721.33	1970 May 14 2000	Poseidon C3	-	C3XT-21	-	-	-	-	CC	LC25C	-	-	500?	-	-
1970-S396	2440755.13	1970 Jun 17 1500:01	Poseidon C3	-	C3XT-23	-	-	-	-	CC	LC25C	-	-	500?	-	-
1970-S411	2440767.57	1970 Jun 30 0139:59	Poseidon C3	-	C3XT-24	NF no sep	-	-	-	CC	LC25C	-	-	500?	-	-
1970-S461	2440802.12	1970 Aug 3 1500	Poseidon C3	-	C3P-1	PEM-1	-	-	SSBN-627	ETR	SLBM	-	-	500?	-	-
1970-S487	2440816.18	1970 Aug 17 1616	Poseidon C3	-	C3P-2	PEM-2	-	-	SSBN-627	ETR	SLBM	-	-	500?	-	-
1970-S505	2440838.17	1970 Sep 8 1600	Poseidon C3	-	C3P-3	PEM-3	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1970-S527	2440851.12	1970 Sep 21 1500	Poseidon C3	-	C3P-4	PEM-4	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1970-S555	2440866.14	1970 Oct 6 1515	Poseidon C3	-	C3P-5	PEM-5	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1970-S581	2440883.42	1970 Oct 23 2200	Poseidon C3	-	C3E-5	USN Mk 3 RV x 10	DASO-1	DASO-1	SSBN-627	ETR	SLBM	-	-	500?	-	-
1970-S628	2440918.43	1970 Nov 27 2217	Poseidon C3	-	C3E-10	DASO-2	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1971-S114	2440987.45	1971 Feb 4 2245	Poseidon C3	-	C3E-19	DASO-3	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1971-S169	2441026.46	1971 Mar 15 2300	Poseidon C3	-	C3E-39	DASO-4	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1971-S213	2441040.46	1971 Mar 29 2305	Poseidon C3	-	C3E-12	DASO-5	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1971-S238	2441061.49	1971 Apr 19 2345	Poseidon C3	-	C3E-44	DASO-6	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1971-S264	2441072.50	1971 May 1 0003	Poseidon C3	-	C3E-70	DASO-7	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1971-S272	2441083.44	1971 May 11 2230	Poseidon C3	-	C3E-2	DASO-8	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1971-S273	2441083.49	1971 May 11 2347	Poseidon C3	-	C3E-9	DASO-9	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1971-S322	2441110.20	1971 Jun 7 1653	Poseidon C3	-	C3E-4	DASO-10	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1971-S356	2441135.19	1971 Jul 2 1630	Poseidon C3	-	-	DASO-11	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1971-S370	2441150.48	1971 Jul 17 2330	Poseidon C3	-	-	DASO-12	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1971-S392	2441180.19	1971 Aug 16 1632	Poseidon C3	-	-	DASO-13	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1971-S523	2441239.38	1971 Oct 14 2113	Poseidon C3	-	-	DASO-14	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1971-S549	2441260.17	1971 Nov 4 1600	Poseidon C3	-	-	DASO-15 Surface	-	-	SSBN-636	ETR	SLBM	-	-	500?	-	-
1971-S572	2441280.39	1971 Nov 24 2115	Poseidon C3	-	-	DASO-16	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1971-S594	2441292.24	1971 Dec 6 1747	Poseidon C3	-	-	DASO-17	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1971-S614	2441303.41	1971 Dec 17 2145	Poseidon C3	-	-	DASO-18	-	-	SSBN-636	ETR	SLBM	-	-	500?	-	-
1972-S47	2441338.41	1972 Jan 21 2145	Poseidon C3	-	-	DASO-19	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1972-S242	2441485.47	1972 Jun 16 2315	Poseidon C3	-	C3E	DASO-20	-	-	SSBN-640	ETR	SLBM	-	-	500?	-	-
1972-S254	2441504.47	1972 Jul 5 2315	Poseidon C3	-	-	DASO-21	-	-	SSBN-641	ETR	SLBM	-	-	500?	-	-
1972-S288	2441547.50	1972 Aug 18	Poseidon C3	-	-	FOT-1	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1972-S289	2441547.50	1972 Aug 18	Poseidon C3	-	-	FOT-1	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1972-S290	2441547.50	1972 Aug 18	Poseidon C3	-	-	FOT-1	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1972-S291	2441547.50	1972 Aug 18	Poseidon C3	-	-	FOT-1	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1972-S320	2441586.45	1972 Sep 25 2245	Poseidon C3	-	-	DASO-22	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1972-S322	2441588.50	1972 Sep 28	Poseidon C3	-	-	FOT-2	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1972-S323	2441588.50	1972 Sep 28	Poseidon C3	-	-	FOT-2	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1972-S324	2441588.50	1972 Sep 28	Poseidon C3	-	-	FOT-2	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1972-S325	2441588.50	1972 Sep 28	Poseidon C3	-	-	FOT-2	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1972-S383	2441623.50	1972 Nov 2	Poseidon C3	-	-	FOT-3	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1972-S384	2441623.50	1972 Nov 2	Poseidon C3	-	-	FOT-3	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1972-S385	2441623.50	1972 Nov 2	Poseidon C3	-	-	FOT-3	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1972-S386	2441623.50	1972 Nov 2	Poseidon C3	-	-	FOT-3	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1972-S424	2441662.50	1972 Dec 11	Poseidon C3	-	-	FOT-4	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1972-S425	2441662.50	1972 Dec 11	Poseidon C3	-	-	FOT-4	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1972-S426	2441662.50	1972 Dec 11	Poseidon C3	-	-	FOT-4	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1972-S427	2441662.50	1972 Dec 11	Poseidon C3	-	-	FOT-4	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1972-S441	2441667.39	1972 Dec 15 2125	Poseidon C3	-	-	DASO-23	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1972-S442	2441670.39	1972 Dec 18 2115	Poseidon C3	-	-	DASO-24	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1973-S15	2441696.41	1973 Jan 13 2145	Poseidon C3	-	-	DASO-25	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1973-S25	2441705.50	1973 Jan 23	Poseidon C3	-	-	FOT-5	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1973-S26	2441705.50	1973 Jan 23	Poseidon C3	-	-	FOT-5	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1973-S27	2441705.50	1973 Jan 23	Poseidon C3	-	-	FOT-5	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1973-S28	2441705.50	1973 Jan 23	Poseidon C3	-	-	FOT-5	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1973-S87	2441742.50	1973 Mar 1	Poseidon C3	-	-	FOT-6	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1973-S88	2441742.50	1973 Mar 1	Poseidon C3	-	-	FOT-6	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1973-S89	2441742.50	1973 Mar 1	Poseidon C3	-	-	FOT-6	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1973-S90	2441742.50	1973 Mar 1	Poseidon C3	-	-	FOT-6	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1973-S160	2441801.45	1973 Apr 28 2248	Poseidon C3	-	-	DASO	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1973-S166	2441812.48	1973 May 9 2325	Poseidon C3	-	-	DASO	-	-	SSBN-655	ETR	SLBM	-	-	500?	-	-
1973-S171	2441822.46	1973 May 19 2300	Poseidon C3	-	-	DASO	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1973-S307	2441941.43	1973 Sep 15 2215	Poseidon C3	-	-	DASO	-	-	SSBN-657	ETR	SLBM	-	-	500?	-	-
1974-S171	2442150.48	1974 Apr 12 2324	Poseidon C3	-	-	DASO	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1974-S197	2442183.46	1974 May 15 2300	Poseidon C3	-	-	DASO	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S198	2442183.49	1974 May 15 2345	Poseidon C3	-	-	DASO	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S361	2442342.50	1974 Oct 22	Poseidon C3	-	-	FOT-7	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S362	2442342.50	1974 Oct 22	Poseidon C3	-	-	FOT-7	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S363	2442342.50	1974 Oct 22	Poseidon C3	-	-	FOT-7	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S364	2442342.50	1974 Oct 22	Poseidon C3	-	-	FOT-7	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1974-S383	2442373.50	1974 Nov 22	Poseidon C3	-	-	FOT-8	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S384	2442373.50	1974 Nov 22	Poseidon C3	-	-	FOT-8	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1974-S385	2442373.50	1974 Nov 22	Poseidon C3	-	-	FOT-8	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1974-S386	2442373.50	1974 Nov 22	Poseidon C3	-	-	FOT-8	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1974-S414	2442398.17	1974 Dec 16 1600:02	Poseidon C3	-	-	DASO	-	-	SSBN-616	ETR	SLBM	-	-	500?	-	-
1975-S126	2442521.52	1975 Apr 19 0028:00	Poseidon C3	-	-	FOT-9	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1975-S127	2442521.52	1975 Apr 19 0033:34	Poseidon C3	-	-	FOT-9	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1975-S134	2442526.50	1975 Apr 24	Poseidon C3	-	-	FOT-10?	-	-	SSBN-633	ETR	SLBM	-	-	500?	-	-
1975-S167	2442561.46	1975 May 28 2300:02	Poseidon C3	-	-	DASO-34	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1975-S168	2442561.50	1975 May 29 0002:02	Poseidon C3	-	3063	DASO-35	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1975-S207	2442586.50	1975 Jun 23	Poseidon C3	-	-	FOT-11?	-	-	SSBN-627	ETR	SLBM	-	-	500?	-	-
1975-S208	2442586.50	1975 Jun 23	Poseidon C3	-	-	FOT-11?	-	-	SSBN-627	ETR	SLBM	-	-	500?	-	-
1975-S210	2442587.50	1975 Jun 24	Poseidon C3	-	-	FOT-12?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1975-S211	2442587.50	1975 Jun 24	Poseidon C3	-	-	FOT-12?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1975-S250	2442647.21	1975 Aug 22 1708:40	Poseidon C3	-	-	FOT-13?	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1975-S251	2442647.21	1975 Aug 22 1709:08	Poseidon C3	-	-	FOT-13?	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1975-S252	2442647.23	1975 Aug 22 1726:10	Poseidon C3	-	-	FOT-13?	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1975-S260	2442654.23	1975 Aug 29 1724:26	Poseidon C3	-	-	FOT-14?	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1975-S261	2442654.23	1975 Aug 29 1724:44	Poseidon C3	-	-	FOT-14?	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1975-S284	2442680.46	1975 Sep 24 2300:02	Poseidon C3	-	-	DASO	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1975-S301	2442696.46	1975 Oct 10 2300:02	Poseidon C3	-	-	DASO	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1975-S315	2442724.50	1975 Nov 8	Poseidon C3	-	-	FOT-15?	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1975-S316	2442724.50	1975 Nov 8	Poseidon C3	-	-	FOT-15?	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1975-S319	2442729.50	1975 Nov 13	Poseidon C3	-	-	FOT-16?	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1976-S90	2442812.39	1976 Feb 3 2115	Poseidon C3	-	-	FOT-17?	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1976-S91	2442812.39	1976 Feb 3 2116	Poseidon C3	-	-	FOT-17?	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1976-S92	2442812.41	1976 Feb 3 2147	Poseidon C3	-	-	FOT-17?	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1976-S101	2442823.42	1976 Feb 14 2200	Poseidon C3	-	-	DASO	-	-	SSBN-624	ETR	SLBM	-	-	500?	-	-
1976-S162	2442889.34	1976 Apr 20 2008	Poseidon C3	-	-	FOT-18?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1976-S163	2442889.34	1976 Apr 20 2009	Poseidon C3	-	-	FOT-18?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1976-S165	2442891.91	1976 Apr 23 0946	Poseidon C3	-	-	FOT-19?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1976-S166	2442891.91	1976 Apr 23 0953	Poseidon C3	-	-	FOT-19?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1976-S187	2442924.42	1976 May 25 2200	Poseidon C3	-	-	DASO	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1976-S207	2442952.34	1976 Jun 22 2016	Poseidon C3	-	-	FOT-20?	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1976-S208	2442952.35	1976 Jun 22 2017	Poseidon C3	-	-	FOT-20?	-	-	SSBN-632	ETR	SLBM	-	-	500?	-	-
1976-S211	2442955.87	1976 Jun 26 0858	Poseidon C3	-	-	FOT-21?	-	-	SSBN-640	ETR	SLBM	-	-	500?	-	-
1976-S212	2442955.88	1976 Jun 26 0906	Poseidon C3	-	-	FOT-21?	-	-	SSBN-640	ETR	SLBM	-	-	500?	-	-
1976-S265	2443011.45	1976 Aug 20 2248	Poseidon C3	-	-	FOT-22?	-	-	SSBN-636	ETR	SLBM	-	-	500?	-	-
1976-S266	2443011.45	1976 Aug 20 2250	Poseidon C3	-	-	FOT-22?	-	-	SSBN-636	ETR	SLBM	-	-	500?	-	-
1976-S272	2443018.90	1976 Aug 28 0942	Poseidon C3	-	-	FOT-23?	-	-	SSBN-641	ETR	SLBM	-	-	500?	-	-
1976-S273	2443018.90	1976 Aug 28 0943	Poseidon C3	-	-	FOT-23?	-	-	SSBN-641	ETR	SLBM	-	-	500?	-	-
1976-S329	2443102.21	1976 Nov 19 1707	Poseidon C3	-	-	FOT-24?	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1976-S330	2443102.21	1976 Nov 19 1707	Poseidon C3	-	-	FOT-24?	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1976-S331	2443102.30	1976 Nov 19 1908	Poseidon C3	-	-	FOT-24?	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1976-S332	2443102.30	1976 Nov 19 1909	Poseidon C3	-	-	FOT-24?	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1976-S335	2443105.50	1976 Nov 23	Poseidon C3	-	-	FOT-25?	-	-	SSBN-655	WTR	LP5	-	-	500?	-	-
1976-S336	2443105.50	1976 Nov 23	Poseidon C3	-	-	FOT-25?	-	-	SSBN-655	WTR	LP5	-	-	500?	-	-
1977-S51	2443172.44	1977 Jan 28 2236	Poseidon C3	-	-	OT-26	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1977-S52	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	OT-26	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1977-S53	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	OT-26	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1977-S54	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	OT-26	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1977-S58	2443179.63	1977 Feb 5 0303	Poseidon C3	-	+1 other?	FOT-27	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1977-S127	2443227.37	1977 Mar 24 2047	Poseidon C3	-	-	OT-28	-	-	SSBN-624	ETR	SLBM	-	-	500?	-	-
1977-S128	2443227.37	1977 Mar 24 2047	Poseidon C3	-	-	OT-28	-	-	SSBN-624	ETR	SLBM	-	-	500?	-	-
1977-S137	2443233.00	1977 Mar 30 1202	Poseidon C3	-	-	OT-29	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1977-S138	2443233.07	1977 Mar 30 1336	Poseidon C3	-	-	OT-29	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1977-S170	2443289.46	1977 May 25 2257	Poseidon C3	-	-	OT-30	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1977-S171	2443289.48	1977 May 25 2327	Poseidon C3	-	-	OT-30	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1977-S172	2443289.48	1977 May 25 2327	Poseidon C3	-	-	OT-30	-	-	SSBN-643	ETR	SLBM	-	-	500?	-	-
1977-S192	2443296.41	1977 Jun 1 2146	Poseidon C3	-	-	OT-31	-	-	SSBN-616	ETR	SLBM	-	-	500?	-	-
1977-S193	2443296.41	1977 Jun 1 2147	Poseidon C3	-	-	OT-31	-	-	SSBN-616	ETR	SLBM	-	-	500?	-	-
1977-S225	2443359.17	1977 Aug 3 1600:02	Poseidon C3	-	-	DASO	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1977-S242	2443393.38	1977 Sep 6 2100:01	Poseidon C3	-	-	DASO	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1978-S97	2443597.46	1978 Mar 29 2300:01	Poseidon C3	-	-	DASO	-	-	SSBN-626	ETR	SLBM	-	-	500?	-	-
1978-S106	2443610.42	1978 Apr 11 2159	Poseidon C3	-	-	OT-32	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1978-S107	2443610.42	1978 Apr 11 2159	Poseidon C3	-	-	OT-32	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1978-S108	2443610.42	1978 Apr 11 2200	Poseidon C3	-	-	OT-32	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1978-S109	2443610.42	1978 Apr 11 2200	Poseidon C3	-	-	OT-32	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1978-S122	2443622.90	1978 Apr 24 0935	Poseidon C3	-	-	OT-33	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1978-S123	2443622.90	1978 Apr 24 0935	Poseidon C3	-	-	OT-33	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1978-S124	2443622.90	1978 Apr 24 0936	Poseidon C3	-	-	OT-33	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1978-S125	2443622.90	1978 Apr 24 0936	Poseidon C3	-	-	OT-33	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1978-S133	2443641.47	1978 May 12 2311	Poseidon C3	-	-	OT-34	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1978-S134	2443641.47	1978 May 12 2312	Poseidon C3	-	-	OT-34	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1978-S135	2443641.47	1978 May 12 2312	Poseidon C3	-	-	OT-34	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1978-S136	2443641.47	1978 May 12 2313	Poseidon C3	-	-	OT-34	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1978-S138	2443644.38	1978 May 15 2100	Poseidon C3	-	-	DASO	-	-	SSBN-629	ETR	SLBM	-	-	500?	-	-
1978-S141	2443649.50	1978 May 21	Poseidon C3	-	-	OT-35	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1978-S142	2443650.02	1978 May 21 1222	Poseidon C3	-	-	OT-35	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1978-S143	2443650.02	1978 May 21 1223	Poseidon C3	-	-	OT-35	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1978-S144	2443650.04	1978 May 21 1255	Poseidon C3	-	-	OT-35	-	-	SSBN-658	ETR	SLBM	-	-	500?	-	-
1979-S61	2443923.65	1979 Feb 19 0332?	Poseidon C3	-	-	FOT-36	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1979-S62	2443923.65	1979 Feb 19 0333	Poseidon C3	-	-	FOT-36	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1979-S63	2443923.65	1979 Feb 19 0335	Poseidon C3	-	-	FOT-36	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1979-S64	2443923.71	1979 Feb 19 0500	Poseidon C3	-	-	FOT-36	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1979-S88	2443938.28	1979 Mar 5 1847	Poseidon C3	-	C3	OT-37	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1979-S89	2443938.28	1979 Mar 5 1848	Poseidon C3	-	C3	OT-37	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-S90	2443938.34	1979 Mar 5 2007	Poseidon C3	-	C3	OT-37	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1979-S91	2443938.43	1979 Mar 5 2225	Poseidon C3	-	C3	OT-37	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1979-S103	2443956.43	1979 Mar 23 2225	Poseidon C3	-	C3E	DASO	-	-	SSBN-630	ETR	SLBM	-	-	500?	-	-
1979-S141	2444020.43	1979 May 26 2215:03	Poseidon C3	-	C3E	DASO	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1979-S230	2444170.41	1979 Oct 23 2151	Poseidon C3	-	-	DASO	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1980-S34	2444272.55	1980 Feb 3 0112	Poseidon C3	-	-	FOT-38?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1980-S35	2444272.55	1980 Feb 3 0113	Poseidon C3	-	-	FOT-38?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1980-S36	2444272.55	1980 Feb 3 0113	Poseidon C3	-	-	FOT-38?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1980-S37	2444273.61	1980 Feb 4 0242	Poseidon C3	-	-	FOT-39?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1980-S42	2444283.42	1980 Feb 13 2200:02	Poseidon C3	-	-	DASO	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1980-S87	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	FOT-40?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1980-S88	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	FOT-40?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1980-S89	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	FOT-40?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1980-S90	2444351.41	1980 Apr 21 2148	Poseidon C3	-	-	FOT-40?	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1980-S139	2444432.17	1980 Jul 11 1601	Poseidon C3	-	-	FOT-41?	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1980-S140	2444432.17	1980 Jul 11 1601	Poseidon C3	-	-	FOT-41?	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1980-S141	2444432.17	1980 Jul 11 1602	Poseidon C3	-	-	FOT-41?	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1980-S142	2444432.17	1980 Jul 11 1602	Poseidon C3	-	-	FOT-41?	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1980-S143	2444435.42	1980 Jul 14 2200	Poseidon C3	-	-	DASO-48	-	-	SSBN-634	ETR	SLBM	-	-	500?	-	-
1980-S154	2444472.39	1980 Aug 20 2119	Poseidon C3	-	-	FOT-42?	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1980-S155	2444472.39	1980 Aug 20 2119	Poseidon C3	-	-	FOT-42?	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1980-S156	2444472.39	1980 Aug 20 2127	Poseidon C3	-	-	FOT-42?	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1980-S157	2444472.40	1980 Aug 20 2132	Poseidon C3	-	-	FOT-42?	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1981-S118	2444774.55	1981 Jun 19 0115	Poseidon C3	-	-	FOT-43?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1981-S119	2444774.55	1981 Jun 19 0115	Poseidon C3	-	-	FOT-43?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1981-S120	2444774.55	1981 Jun 19 0116	Poseidon C3	-	-	FOT-43?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1981-S121	2444774.55	1981 Jun 19 0116	Poseidon C3	-	-	FOT-43?	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1981-S126	2444797.12	1981 Jul 11 1448	Poseidon C3	-	-	FOT-44?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1981-S127	2444797.12	1981 Jul 11 1448	Poseidon C3	-	-	FOT-44?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1981-S128	2444797.12	1981 Jul 11 1449	Poseidon C3	-	-	FOT-44?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1981-S129	2444797.12	1981 Jul 11 1449	Poseidon C3	-	-	FOT-44?	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1981-S145	2444838.54	1981 Aug 22 0100	Poseidon C3	-	-	DASO	-	-	SSBN-636	ETR	SLBM	-	-	500?	-	-
1982-S71	2445028.50	1982 Feb 28	Poseidon C3	-	-	FOT-45?	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1982-S72	2445028.50	1982 Feb 28	Poseidon C3	-	-	FOT-45?	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1982-S118	2445114.50	1982 May 25	Poseidon C3	-	-	FOT-46?	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1982-S119	2445114.50	1982 May 25	Poseidon C3	-	-	FOT-46?	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1982-S120	2445114.50	1982 May 25	Poseidon C3	-	-	FOT-46?	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1982-S121	2445115.47	1982 May 25 2313	Poseidon C3	-	-	FOT-46?	-	-	SSBN-619	ETR	SLBM	-	-	500?	-	-
1982-S132	2445146.50	1982 Jun 26	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1982-S133	2445146.62	1982 Jun 26 0257	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1983-S42	2445344.50	1983 Jan 10	Poseidon C3	-	-	FOT	-	-	SSBN-624	ETR	SLBM	-	-	500?	-	-
1983-S43	2445344.89	1983 Jan 10 0919	Poseidon C3	-	-	FOT	-	-	SSBN-624	ETR	SLBM	-	-	500?	-	-
1983-S79	2445414.50	1983 Mar 21	Poseidon C3	-	-	FOT	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1983-S80	2445414.62	1983 Mar 21 0254	Poseidon C3	-	-	FOT	-	-	SSBN-635	ETR	SLBM	-	-	500?	-	-
1983-S86	2445433.29	1983 Apr 8 1900	Poseidon C3	-	-	DASO	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-
1983-S129	2445539.30	1983 Jul 23 1915	Poseidon C3	-	-	DASO	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1983-S132	2445543.50	1983 Jul 28	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1983-S133	2445543.50	1983 Jul 28	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1983-S134	2445543.50	1983 Jul 28	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1983-S135	2445543.72	1983 Jul 28 0522	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1983-S159	2445580.17	1983 Sep 2 1600	Poseidon C3	-	-	DASO	-	-	SSBN-616	ETR	SLBM	-	-	500?	-	-
1983-S188	2445620.50	1983 Oct 13	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1983-S189	2445620.78	1983 Oct 13 0641	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1984-S70	2445779.21	1984 Mar 19 1700	Poseidon C3	-	-	DASO	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1984-S82	2445799.50	1984 Apr 9	Poseidon C3	-	-	FOT	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1984-S83	2445799.72	1984 Apr 9 0516	Poseidon C3	-	-	FOT	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1984-S97	2445880.50	1984 Jun 29	Poseidon C3	-	-	FOT	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1984-S98	2445881.34	1984 Jun 29 2003	Poseidon C3	-	-	FOT	-	-	SSBN-625	ETR	SLBM	-	-	500?	-	-
1984-S102	2445906.21	1984 Jul 24 1700	Poseidon C3	-	-	DASO	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1985-S52	2446130.50	1985 Mar 6	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1985-S53	2446130.50	1985 Mar 6	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1985-S54	2446130.50	1985 Mar 6	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1985-S55	2446130.65	1985 Mar 6 0342	Poseidon C3	-	-	FOT	-	-	SSBN-623	ETR	SLBM	-	-	500?	-	-
1985-S82	2446229.50	1985 Jun 13	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1985-S83	2446229.50	1985 Jun 13	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1985-S84	2446229.50	1985 Jun 13	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1985-S85	2446229.76	1985 Jun 13 0608	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1985-S104	2446288.21	1985 Aug 10 1700	Poseidon C3	-	-	DASO	-	-	SSBN-656	ETR	SLBM	-	-	500?	-	-
1985-S110	2446310.50	1985 Sep 2	Poseidon C3	-	-	FOT	-	-	SSBN-626	ETR	SLBM	-	-	500?	-	-
1985-S111	2446310.71	1985 Sep 2 0503	Poseidon C3	-	-	FOT	-	-	SSBN-626	ETR	SLBM	-	-	500?	-	-
1986-S48	2446571.20	1986 May 20 1645	Poseidon C3	-	-	DASO	-	-	SSBN-659	ETR	SLBM	-	-	500?	-	-
1986-S52	2446585.50	1986 Jun 4	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1986-S53	2446585.50	1986 Jun 4	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1986-S54	2446585.50	1986 Jun 4	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1986-S55	2446586.40	1986 Jun 4 2134	Poseidon C3	-	-	FOT	-	-	SSBN-620	ETR	SLBM	-	-	500?	-	-
1986-S109	2446738.50	1986 Nov 4	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1986-S110	2446738.50	1986 Nov 4	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1986-S111	2446739.37	1986 Nov 4 2059	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1986-S113	2446739.37	1986 Nov 4 2059	Poseidon C3	-	-	FOT	-	-	SSBN-644	ETR	SLBM	-	-	500?	-	-
1987-S48	2446827.31	1987 Jan 31 1930:03	Poseidon C3	-	-	DASO	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1987-S124	2447008.25	1987 Jul 31 1800:03	Poseidon C3	-	-	DASO	-	-	SSBN-631	ETR	SLBM	-	-	500?	-	-
1987-S142	2447050.50	1987 Sep 12	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1987-S143	2447050.50	1987 Sep 12	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1987-S144	2447050.50	1987 Sep 12	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1987-S145	2447050.73	1987 Sep 12 0528	Poseidon C3	-	-	FOT	-	-	SSBN-622	ETR	SLBM	-	-	500?	-	-
1987-S154	2447084.50	1987 Oct 16	Poseidon C3	-	-	FOT	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S155	2447084.50	1987 Oct 16	Poseidon C3	-	-	FOT	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1987-S156	2447084.50	1987 Oct 16	Poseidon C3	-	-	FOT	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1987-S157	2447085.18	1987 Oct 16 1617	Poseidon C3	-	-	FOT	-	-	SSBN-654	ETR	SLBM	-	-	500?	-	-
1988-S74	2447252.50	1988 Apr 1	Poseidon C3	-	-	FOT	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1988-S75	2447252.50	1988 Apr 1	Poseidon C3	-	-	FOT	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1988-S76	2447252.50	1988 Apr 1	Poseidon C3	-	-	FOT	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1988-S77	2447253.35	1988 Apr 1 2019	Poseidon C3	-	-	FOT	-	-	SSBN-628	ETR	SLBM	-	-	500?	-	-
1989-S44	2447595.40	1989 Mar 9 2133:02	Poseidon C3	-	-	DASO	-	-	SSBN-645	ETR	SLBM	-	-	500?	-	-
1989-S97	2447799.25	1989 Sep 29 1804:02	Poseidon C3	-	-	DASO	-	-	SSBN-617	ETR	SLBM	-	-	500?	-	-
1990-S86	2448012.24	1990 Apr 30 1750	Poseidon C3	-	-	DASO-61	-	-	SSBN-642	ETR	SLBM	-	-	500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S460	2440084.94	1968 Aug 16 1030	Poseidon C3	-	C3XD-01	0.000	SSPO	MS	-	-	Test	Wire	-	-
1968-S611	2440187.21	1968 Nov 26 1700	Poseidon C3	-	C3XD-02	0.000	SSPO	MS	-	-	Test	CCMOPS/Wire	-	-
1969-S78	2440243.17	1969 Jan 21 1600	Poseidon C3	-	C3XD-03	0.000	SSPO	MF	U	-	Test	AWST690127-16	FBM	-
1969-S144	2440272.17	1969 Feb 19 1605	Poseidon C3	-	C3XD-04	0.000	SSPO	MS	-	-	Test	CCMOPS/Wire	-	-
1969-S207	2440301.47	1969 Mar 20 2310	Poseidon C3	-	C3XD-05	0.000	SSPO	MS	-	-	Test	CCMOPS/Wire	DKS	-
1969-S257	2440321.42	1969 Apr 9 2202:01	Poseidon C3	-	C3XD-06	0.000	SSPO	MF	U	-	Test	nsf-koenn	CCMOPS	-
1969-S341	2440366.45	1969 May 24 2255:02	Poseidon C3	-	C3XD-09	0.000	SSPO	MS	-	-	Test	nsf-koenn	DKS	CCMOPS
1969-S365	2440387.66	1969 Jun 15 0357:01	Poseidon C3	-	C3XD-10	0.000	SSPO	MS	-	-	Test	nsf-koenn	DKS	CCMOPS
1969-S396	2440411.99	1969 Jul 9 1150	Poseidon C3	-	C3XD-11	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1969-S464	2440455.52	1969 Aug 22 0030	Poseidon C3	-	C3XD-12	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1969-S505	2440482.19	1969 Sep 17 1637	Poseidon C3	-	C3XD-13	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1969-S601	2440529.17	1969 Nov 3 1600	Poseidon C3	-	C3XD-08	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1969-S636	2440552.33	1969 Nov 26 2001	Poseidon C3	-	C3XT-17	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1969-S680	2440572.23	1969 Dec 16 1725	Poseidon C3	-	C3XT-18	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1970-S80	2440610.25	1970 Jan 23 1800	Poseidon C3	-	C3XT-19	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1970-S102	2440622.36	1970 Feb 4 2038	Poseidon C3	-	C3XT-20	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1970-S261	2440670.30	1970 Mar 24 1917	Poseidon C3	-	C3XT-22	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1970-S357	2440721.33	1970 May 14 2000	Poseidon C3	-	C3XT-21	0.000	SSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1970-S396	2440755.13	1970 Jun 17 1500:01	Poseidon C3	-	C3XT-23	0.000	SSPO	MS	-	-	Test	nsf-koenn	Cleary95	-
1970-S411	2440767.57	1970 Jun 30 0139:59	Poseidon C3	-	C3XT-24	0.000	SSPO	MF	U	-	Test	nsf-koenn	Cleary95	-
1970-S461	2440802.12	1970 Aug 3 1500	Poseidon C3	-	C3P-1	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1970-S487	2440816.18	1970 Aug 17 1616	Poseidon C3	-	C3P-2	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1970-S505	2440838.17	1970 Sep 8 1600	Poseidon C3	-	C3P-3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1970-S527	2440851.12	1970 Sep 21 1500	Poseidon C3	-	C3P-4	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1970-S555	2440866.14	1970 Oct 6 1515	Poseidon C3	-	C3P-5	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1970-S581	2440883.42	1970 Oct 23 2200	Poseidon C3	-	C3E-5	0.000	SSPO	MS	-	-	OT	CCMOPS	DKS	FBM
1970-S628	2440918.43	1970 Nov 27 2217	Poseidon C3	-	C3E-10	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S114	2440987.45	1971 Feb 4 2245	Poseidon C3	-	C3E-19	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S169	2441026.46	1971 Mar 15 2300	Poseidon C3	-	C3E-39	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S213	2441040.46	1971 Mar 29 2305	Poseidon C3	-	C3E-12	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S238	2441061.49	1971 Apr 19 2345	Poseidon C3	-	C3E-44	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S264	2441072.50	1971 May 1 0003	Poseidon C3	-	C3E-70	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S272	2441083.44	1971 May 11 2230	Poseidon C3	-	C3E-2	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S273	2441083.49	1971 May 11 2347	Poseidon C3	-	C3E-9	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S322	2441110.20	1971 Jun 7 1653	Poseidon C3	-	C3E-4	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S356	2441135.19	1971 Jul 2 1630	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S370	2441150.48	1971 Jul 17 2330	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S392	2441180.19	1971 Aug 16 1632	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S523	2441239.38	1971 Oct 14 2113	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S549	2441260.17	1971 Nov 4 1600	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S572	2441280.39	1971 Nov 24 2115	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S594	2441292.24	1971 Dec 6 1747	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1971-S614	2441303.41	1971 Dec 17 2145	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S47	2441338.41	1972 Jan 21 2145	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S242	2441485.47	1972 Jun 16 2315	Poseidon C3	-	C3E	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S254	2441504.47	1972 Jul 5 2315	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S288	2441547.50	1972 Aug 18	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S289	2441547.50	1972 Aug 18	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S290	2441547.50	1972 Aug 18	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S291	2441547.50	1972 Aug 18	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S320	2441586.45	1972 Sep 25 2245	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S322	2441588.50	1972 Sep 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S323	2441588.50	1972 Sep 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S324	2441588.50	1972 Sep 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S325	2441588.50	1972 Sep 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S383	2441623.50	1972 Nov 2	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S384	2441623.50	1972 Nov 2	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S385	2441623.50	1972 Nov 2	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S386	2441623.50	1972 Nov 2	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S424	2441662.50	1972 Dec 11	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S425	2441662.50	1972 Dec 11	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S426	2441662.50	1972 Dec 11	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S427	2441662.50	1972 Dec 11	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S441	2441667.39	1972 Dec 15 2125	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1972-S442	2441670.39	1972 Dec 18 2115	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S15	2441696.41	1973 Jan 13 2145	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S25	2441705.50	1973 Jan 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S26	2441705.50	1973 Jan 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S27	2441705.50	1973 Jan 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S28	2441705.50	1973 Jan 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S87	2441742.50	1973 Mar 1	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S88	2441742.50	1973 Mar 1	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S89	2441742.50	1973 Mar 1	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S90	2441742.50	1973 Mar 1	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S160	2441801.45	1973 Apr 28 2248	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S166	2441812.48	1973 May 9 2325	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S171	2441822.46	1973 May 19 2300	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1973-S307	2441941.43	1973 Sep 15 2215	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S171	2442150.48	1974 Apr 12 2324	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S197	2442183.46	1974 May 15 2300	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S198	2442183.49	1974 May 15 2345	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S361	2442342.50	1974 Oct 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S362	2442342.50	1974 Oct 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S363	2442342.50	1974 Oct 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S364	2442342.50	1974 Oct 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S383	2442373.50	1974 Nov 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S384	2442373.50	1974 Nov 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S385	2442373.50	1974 Nov 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S386	2442373.50	1974 Nov 22	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1974-S414	2442398.17	1974 Dec 16 1600:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S126	2442521.52	1975 Apr 19 0028:00	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1975-S127	2442521.52	1975 Apr 19 0033:34	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1975-S134	2442526.50	1975 Apr 24	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S167	2442561.46	1975 May 28 2300:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S168	2442561.50	1975 May 29 0002:02	Poseidon C3	-	3063	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1975-S207	2442586.50	1975 Jun 23	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S208	2442586.50	1975 Jun 23	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S210	2442587.50	1975 Jun 24	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S211	2442587.50	1975 Jun 24	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S250	2442647.21	1975 Aug 22 1708:40	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1975-S251	2442647.21	1975 Aug 22 1709:08	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1975-S252	2442647.23	1975 Aug 22 1726:10	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1975-S260	2442654.23	1975 Aug 29 1724:26	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1975-S261	2442654.23	1975 Aug 29 1724:44	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	nsf-koenn	Cleary95	-
1975-S284	2442680.46	1975 Sep 24 2300:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1975-S301	2442696.46	1975 Oct 10 2300:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1975-S315	2442724.50	1975 Nov 8	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S316	2442724.50	1975 Nov 8	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1975-S319	2442729.50	1975 Nov 13	Poseidon C3	-	-	0.000	SSPO	MU	-	-	OT	Cleary95	-	-
1976-S90	2442812.39	1976 Feb 3 2115	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S91	2442812.39	1976 Feb 3 2116	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S92	2442812.41	1976 Feb 3 2147	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S101	2442823.42	1976 Feb 14 2200	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S162	2442889.34	1976 Apr 20 2008	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S163	2442889.34	1976 Apr 20 2009	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S165	2442891.91	1976 Apr 23 0946	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S166	2442891.91	1976 Apr 23 0953	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S187	2442924.42	1976 May 25 2200	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S207	2442952.34	1976 Jun 22 2016	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S208	2442952.35	1976 Jun 22 2017	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S211	2442955.87	1976 Jun 26 0858	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S212	2442955.88	1976 Jun 26 0906	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S265	2443011.45	1976 Aug 20 2248	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S266	2443011.45	1976 Aug 20 2250	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S272	2443018.90	1976 Aug 28 0942	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S273	2443018.90	1976 Aug 28 0943	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S329	2443102.21	1976 Nov 19 1707	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S330	2443102.21	1976 Nov 19 1707	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S331	2443102.30	1976 Nov 19 1908	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S332	2443102.30	1976 Nov 19 1909	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1976-S335	2443105.50	1976 Nov 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	FBM	-	-
1976-S336	2443105.50	1976 Nov 23	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	FBM	-	-
1977-S51	2443172.44	1977 Jan 28 2236	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S52	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S53	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S54	2443172.44	1977 Jan 28 2237	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S58	2443179.63	1977 Feb 5 0303	Poseidon C3	-	+1 other?	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S127	2443227.37	1977 Mar 24 2047	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S128	2443227.37	1977 Mar 24 2047	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S137	2443233.00	1977 Mar 30 1202	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S138	2443233.07	1977 Mar 30 1336	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S170	2443289.46	1977 May 25 2257	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S171	2443289.48	1977 May 25 2327	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S172	2443289.48	1977 May 25 2327	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S192	2443296.41	1977 Jun 1 2146	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S193	2443296.41	1977 Jun 1 2147	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S225	2443359.17	1977 Aug 3 1600:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1977-S242	2443393.38	1977 Sep 6 2100:01	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S97	2443597.46	1978 Mar 29 2300:01	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1978-S106	2443610.42	1978 Apr 11 2159	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S107	2443610.42	1978 Apr 11 2159	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S108	2443610.42	1978 Apr 11 2200	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S109	2443610.42	1978 Apr 11 2200	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S122	2443622.90	1978 Apr 24 0935	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S123	2443622.90	1978 Apr 24 0935	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S124	2443622.90	1978 Apr 24 0936	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S125	2443622.90	1978 Apr 24 0936	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S133	2443641.47	1978 May 12 2311	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S134	2443641.47	1978 May 12 2312	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S135	2443641.47	1978 May 12 2312	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S136	2443641.47	1978 May 12 2313	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S138	2443644.38	1978 May 15 2100	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S141	2443649.50	1978 May 21	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S142	2443650.02	1978 May 21 1222	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S143	2443650.02	1978 May 21 1223	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1978-S144	2443650.04	1978 May 21 1255	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S61	2443923.65	1979 Feb 19 0332?	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1979-S62	2443923.65	1979 Feb 19 0333	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S63	2443923.65	1979 Feb 19 0335	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S64	2443923.71	1979 Feb 19 0500	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S88	2443938.28	1979 Mar 5 1847	Poseidon C3	-	C3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S89	2443938.28	1979 Mar 5 1848	Poseidon C3	-	C3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-S90	2443938.34	1979 Mar 5 2007	Poseidon C3	-	C3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S91	2443938.43	1979 Mar 5 2225	Poseidon C3	-	C3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S103	2443956.43	1979 Mar 23 2225	Poseidon C3	-	C3E	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S141	2444020.43	1979 May 26 2215:03	Poseidon C3	-	C3E	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1979-S230	2444170.41	1979 Oct 23 2151	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S34	2444272.55	1980 Feb 3 0112	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S35	2444272.55	1980 Feb 3 0113	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S36	2444272.55	1980 Feb 3 0113	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S37	2444273.61	1980 Feb 4 0242	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S42	2444283.42	1980 Feb 13 2200:02	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S87	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S88	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S89	2444351.41	1980 Apr 21 2147	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S90	2444351.41	1980 Apr 21 2148	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S139	2444432.17	1980 Jul 11 1601	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S140	2444432.17	1980 Jul 11 1601	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S141	2444432.17	1980 Jul 11 1602	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S142	2444432.17	1980 Jul 11 1602	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S143	2444435.42	1980 Jul 14 2200	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S154	2444472.39	1980 Aug 20 2119	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S155	2444472.39	1980 Aug 20 2119	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S156	2444472.39	1980 Aug 20 2127	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S157	2444472.40	1980 Aug 20 2132	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S118	2444774.55	1981 Jun 19 0115	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S119	2444774.55	1981 Jun 19 0115	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S120	2444774.55	1981 Jun 19 0116	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S121	2444774.55	1981 Jun 19 0116	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S126	2444797.12	1981 Jul 11 1448	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S127	2444797.12	1981 Jul 11 1448	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S128	2444797.12	1981 Jul 11 1449	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S129	2444797.12	1981 Jul 11 1449	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1981-S145	2444838.54	1981 Aug 22 0100	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S71	2445028.50	1982 Feb 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S72	2445028.50	1982 Feb 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S118	2445114.50	1982 May 25	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S119	2445114.50	1982 May 25	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S120	2445114.50	1982 May 25	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S121	2445115.47	1982 May 25 2313	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S132	2445146.50	1982 Jun 26	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S133	2445146.62	1982 Jun 26 0257	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S42	2445344.50	1983 Jan 10	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S43	2445344.89	1983 Jan 10 0919	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S79	2445414.50	1983 Mar 21	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S80	2445414.62	1983 Mar 21 0254	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S86	2445433.29	1983 Apr 8 1900	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S129	2445539.30	1983 Jul 23 1915	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S132	2445543.50	1983 Jul 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S133	2445543.50	1983 Jul 28	Poseidon C3	-	-	0.000	SSPO	MF	S2	-	OT	CCMOPS	-	-
1983-S134	2445543.50	1983 Jul 28	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S135	2445543.72	1983 Jul 28 0522	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S159	2445580.17	1983 Sep 2 1600	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S188	2445620.50	1983 Oct 13	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S189	2445620.78	1983 Oct 13 0641	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S70	2445779.21	1984 Mar 19 1700	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S82	2445799.50	1984 Apr 9	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S83	2445799.72	1984 Apr 9 0516	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S97	2445880.50	1984 Jun 29	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S98	2445881.34	1984 Jun 29 2003	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S102	2445906.21	1984 Jul 24 1700	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S52	2446130.50	1985 Mar 6	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S53	2446130.50	1985 Mar 6	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S54	2446130.50	1985 Mar 6	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S55	2446130.65	1985 Mar 6 0342	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S82	2446229.50	1985 Jun 13	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S83	2446229.50	1985 Jun 13	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S84	2446229.50	1985 Jun 13	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S85	2446229.76	1985 Jun 13 0608	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	nsf-koenn	CCMOPS	-
1985-S104	2446288.21	1985 Aug 10 1700	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S110	2446310.50	1985 Sep 2	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S111	2446310.71	1985 Sep 2 0503	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S48	2446571.20	1986 May 20 1645	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S52	2446585.50	1986 Jun 4	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S53	2446585.50	1986 Jun 4	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S54	2446585.50	1986 Jun 4	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S55	2446586.40	1986 Jun 4 2134	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S109	2446738.50	1986 Nov 4	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S110	2446738.50	1986 Nov 4	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S111	2446739.37	1986 Nov 4 2059	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S113	2446739.37	1986 Nov 4 2059	Poseidon C3	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1987-S48	2446827.31	1987 Jan 31 1930:03	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S124	2447008.25	1987 Jul 31 1800:03	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	CCMOPS	-
1987-S142	2447050.50	1987 Sep 12	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S143	2447050.50	1987 Sep 12	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S144	2447050.50	1987 Sep 12	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S145	2447050.73	1987 Sep 12 0528	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S154	2447084.50	1987 Oct 16	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S155	2447084.50	1987 Oct 16	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S156	2447084.50	1987 Oct 16	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S157	2447085.18	1987 Oct 16 1617	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1988-S74	2447252.50	1988 Apr 1	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1988-S75	2447252.50	1988 Apr 1	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1988-S76	2447252.50	1988 Apr 1	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1988-S77	2447253.35	1988 Apr 1 2019	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1989-S44	2447595.40	1989 Mar 9 2133:02	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1989-S97	2447799.25	1989 Sep 29 1804:02	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S86	2448012.24	1990 Apr 30 1750	Poseidon C3	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-S86	2458827.50	2019 Dec 10	PrSM	–	–	–	–	–	–	WS	–	–	–	100?	–	–
2023-S74	2460261.50	2023 Nov 13	PrSM	–	–	–	–	–	–	WS	–	–	–	100?	–	–
2024-S87	2460477.50	2024 Jun 16	PrSM	–	–	–	Valiant Shield 24	–	–	PTRO	–	–	–	100?	–	–
2025-S11	2460753.50	2025 Mar 19	PrSM	–	–	–	–	–	–	V	–	–	Pacific	100?	–	–

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-S86	2458827.50	2019 Dec 10	PrSM	-	-	0.000	USA	MS	-	-	Test	Wire	-	-
2023-S74	2460261.50	2023 Nov 13	PrSM	-	-	0.000	USA	MS	-	-	Test	Wire	-	-
2024-S87	2460477.50	2024 Jun 16	PrSM	-	-	0.000	USA	MS	-	-	Test	Wire	-	-
2025-S11	2460753.50	2025 Mar 19	PrSM	-	-	0.000	USA	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-S60	2447216.50	1988 Feb 25	Prithvi	-	1	-	-	-	-	SHAR	-	-	-	100?	-	-
1989-S96	2447795.72	1989 Sep 26 0510	Prithvi	-	2	SS-520	-	-	-	SHAR	-	-	-	100?	-	-
1991-S64	2448298.78	1991 Feb 11 0645	Prithvi	-	3	-	-	-	-	SHAR	-	-	-	100?	-	-
1991-M01	2448441.85	1991 Jul 4 0822	Prithvi	-	4	-	-	-	-	SHAR	-	-	-	50?	-	-
1991-M02	2448475.73	1991 Aug 7 0528	Prithvi	-	5	-	-	-	-	SHAR	-	-	-	50?	-	-
1992-A01	2448665.50	1992 Feb 13	Prithvi	-	6	-	-	-	-	SHAR	-	-	-	0?	-	-
1992-S40	2448747.50	1992 May 5	Prithvi	-	7	-	-	-	-	CHAN	-	-	-	100?	-	-
1992-S72	2448852.67	1992 Aug 18 0400	Prithvi	-	8	-	-	-	-	CHAN	-	-	-	100?	-	-
1992-S105	2448863.72	1992 Aug 29 0513	Prithvi	-	9	-	-	-	-	CHAN	-	-	-	100?	-	-
1993-S12	2449025.85	1993 Feb 7 0820	Prithvi	-	10	-	-	-	-	CHAN	-	-	-	100?	-	-
1993-S41	2449150.50	1993 Jun 12	Prithvi	-	11	-	-	-	-	CHAN	-	-	-	100?	-	-
1993-M07	2449321.79	1993 Nov 30 0655	Prithvi	-	12	250 kg RV	-	-	-	CHAN	-	-	-	100?	-	-
1994-S36	2449507.76	1994 Jun 4 0610	Prithvi	-	13	-	-	-	-	CHAN	-	-	-	100?	80	Wheeler I
1994-S37	2449509.50	1994 Jun 6	Prithvi	-	14	-	Army user trial	-	-	CHAN	-	-	-	100?	145	-
1996-S04	2450109.87	1996 Jan 27 0852	Prithvi 2	-	2-1 (15)	-	-	-	-	CHAN	-	-	-	100?	-	-
1996-S01	2450082.50	1996	Prithvi 2	-	2-2	-	-	-	-	CHAN	-	-	-	100?	-	-
1997-S19	2450502.77	1997 Feb 23 0622	Prithvi 2	-	2-3	-	-	-	-	CHAN	-	-	-	100?	-	-
2000-A02	2451645.84	2000 Apr 11 0805	Dhanush	-	-	Test	-	-	-	CHAN	-	-	-	1?	-	-
2000-S35	2451711.86	2000 Jun 16 0845	Prithvi	-	17	-	-	-	-	CHAN	-	-	-	100?	-	-
2001-S16	2451999.75	2001 Mar 31 0600	Prithvi	-	18	Solid fuel test	-	-	-	CHAN	-	-	-	100?	-	-
2001-M04	2452173.50	2001 Sep 21	Dhanush	-	-	Test	-	-	INS-P51	CHAN	SEA	-	-	50?	-	-
2001-S58	2452255.72	2001 Dec 12 0511	Prithvi	-	-	Prithvi-2	-	-	-	CHAN	-	-	-	100?	-	-
2003-S10	2452724.75	2003 Mar 26 0600	Prithvi	-	-	Prithvi-2?	-	-	-	CHAN	-	-	-	100?	-	-
2003-S20	2452758.74	2003 Apr 29 0550	Prithvi	-	-	Prithvi-2?	-	-	-	CHAN	-	-	-	100?	-	-
2004-S05	2453027.88	2004 Jan 23 0909	Prithvi	-	23	-	-	-	-	CHAN	-	-	-	100?	-	-
2004-M10	2453083.69	2004 Mar 19 0440	Prithvi	-	-	Prithvi-3	-	-	-	CHAN	-	-	-	50?	-	-
2004-M11	2453305.75	2004 Oct 27 0559	Prithvi	-	-	Prithvi-3 (Dhanush?)	-	-	-	CHAN	IC3	-	-	50?	-	-
2004-M08	2453316.78	2004 Nov 7 0650	Dhanush	-	3	Ship test	-	-	INS-P51	CHAN	SEA	-	-	50?	-	-
2005-M04	2453502.82	2005 May 12 0734	Prithvi	-	-	Prithvi-3	-	-	-	CHAN	-	-	-	50?	-	-
2005-M05	2453732.85	2005 Dec 28 0828	Dhanush	-	4	INS Rajput	-	-	INS-D51	CHAN	SEA	-	-	50?	-	-
2006-M03	2453897.84	2006 Jun 11 0810	Prithvi	-	-	User Trial	-	-	-	CHAN	-	-	-	50?	-	-
2006-S65	2454058.68	2006 Nov 19 0425	Prithvi	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2006-S66	2454066.70	2006 Nov 27 0445	Prithvi	-	-	PAD Target (P2)	-	-	-	CHAN	IC3	-	-	90?	-	-
2006-S67	2454066.70	2006 Nov 27 0446	Prithvi	-	-	PAD Intercept (P2)	-	-	-	CHAN	IC4	-	-	48	-	-
2007-S48	2454189.88	2007 Mar 30 0905	Dhanush	-	5	Ship test	-	-	INS-P51	CHAN	SEA	-	-	50?	-	-
2007-S49	2454229.72	2007 May 9 0510	Prithvi	-	-	-	-	-	-	CHAN	IC3	-	-	100?	-	-
2007-S77	2454440.73	2007 Dec 6 0530	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	110	-	-
2008-A03	2454609.71	2008 May 23 0456	Prithvi 2	-	2	-	-	-	-	CHAN	-	-	-	44	-	-
2009-S12	2454896.95	2009 Mar 6 1054	Dhanush	-	-	PAD Target	-	-	INS-P51	CHAN	SEA	-	-	120	-	-
2009-M01	2454896.96	2009 Mar 6 1057	Prithvi	-	-	PAD Interceptor 3	-	-	-	CHAN	IC4	-	-	75	-	-
2009-M03	2454936.70	2009 Apr 15 0450	Prithvi 2	-	2	-	-	-	-	CHAN	IC3?	-	-	50?	-	-
2009-M06	2455116.71	2009 Oct 12 0458	Prithvi 2	-	2	Prithvi-2	-	-	-	CHAN	IC3?	-	-	50?	-	-
2009-M07	2455116.71	2009 Oct 12 0503	Prithvi 2	-	2	Prithvi-2	-	-	-	CHAN	IC3?	-	-	50?	-	-
2009-M08	2455178.75	2009 Dec 13 0601?	Dhanush	-	-	-	F6	-	INS-P51	CHAN	SEA	-	-	50?	-	-
2010-M05	2455270.69	2010 Mar 15 0432	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3?	-	-	70	-	-
2010-S25	2455282.51	2010 Mar 27 0014	Dhanush	-	-	Test	-	-	INS-P51	CHAN	SEA	-	-	100?	-	-
2010-S26	2455282.51	2010 Mar 27 0018	Prithvi	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2010-S86	2455365.56	2010 Jun 18 0120?	Prithvi	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2010-S48	2455403.69	2010 Jul 26 0435	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	100?	-	-
2010-M07	2455552.61	2010 Dec 22 0245	Prithvi	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	-	-
2010-M08	2455552.66	2010 Dec 22 0345	Prithvi	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	-	-
2011-M01	2455626.67	2011 Mar 6 0402	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	50?	-	-
2011-M04	2455631.69	2011 Mar 11 0433	Dhanush	-	-	-	-	-	INS-P52	CHAN	SEA	-	-	50?	-	-
2011-M05	2455631.73	2011 Mar 11 0530?	Prithvi 2	-	2	-	-	-	-	CHAN	IC3?	-	-	50?	-	-
2011-M02	2455721.65	2011 Jun 9 0335	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	-	-
2011-S42	2455830.64	2011 Sep 26 0320	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2012-S04	2455967.69	2012 Feb 10 0440	Prithvi	?	-	AAD Target	-	-	-	CHAN	IC3	-	-	100?	-	-
2012-S76	2456164.73	2012 Aug 25 0534	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2012-S55	2456204.65	2012 Oct 4 0337	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2012-S56	2456205.75	2012 Oct 5 0555	Dhanush	-	-	Test	-	-	INS-P51?	CHAN	SEA	-	-	100?	-	-
2012-M02	2456254.81	2012 Nov 23 0722	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	50?	-	-
2012-S74	2456281.66	2012 Dec 20 0351	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	-	-
2013-S54	2456516.66	2013 Aug 12 0345	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	350	-
2013-S87	2456572.66	2013 Oct 7 0345	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	300	-
2013-S91	2456573.78	2013 Oct 8 0650	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	100?	325	-
2014-A02	2456664.68	2014 Jan 7 0418	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	44	325	-
2014-S19	2456774.65	2014 Apr 27 0337	PDV Target	-	-	Target	2S-SL TGT-01	-	INS-P51?	CHAN	IC3	-	-	120?	-	-
2014-S20	2456774.65	2014 Apr 27 0340?	PDV	?	-	Prithvi Defense Vehicle	PDV	-	-	CHAN	IC4?	-	-	120?	-	-
2014-A39	2456975.72	2014 Nov 14 0510	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	45?	325?	-
2014-M04	2456976.09	2014 Nov 14 1410	Dhanush	-	-	Test	-	-	INS-P51?	CHAN	SEA	-	-	50?	-	-
2015-A01	2457072.66	2015 Feb 19 0345	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2015-M03	2457121.73	2015 Apr 9 0532	Dhanush	-	-	Test	-	-	INS-P51?	CHAN	SEA	-	-	50?	350	-
2016-M04	2457713.67	2016 Nov 21 0407	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2016-M05	2457713.67	2016 Nov 21 0408	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2017-M02	2457906.68	2017 Jun 2 0420	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2017-S107	2457796.59	2017 Feb 12 0213?	PDV Target	?	-	Prithvi Target	-	Ship 70 km off Paradip	INS-P51?	CHAN	SEA	-	-	97	-	-
2017-S108	2457796.59	2017 Feb 12 0215	PDV	-	-	Prithvi Defense Vehicle	PDV	-	-	CHAN	IC4	-	-	97	-	-
2017-M06	2457813.70	2017 Mar 1 0443?	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	50?	250	-
2017-M08	2457906.68	2017 Jun 2 0420	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2017-M07	2458115.50	2017 Dec 28	Prithvi	-	-	AAD Target	-	-	-	CHAN	IC3	-	-	50?	250	-
2018-M01	2458171.12	2018 Feb 21 1500	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2018-M02	2458172.72	2018 Feb 23 0522	Dhanush	-	-	Test	-	Off Paradip	INS-P51?	CHAN	SEA	-	-	50?	350	-
2018-S85	2458385.11	2018 Sep 23 1433?	PDV Target	?	-	Prithvi Target	-	-	INS-P51?	CHAN	SEA	-	-	90?	-	-
2018-S86	2458385.11	2018 Sep 23 1435	PDV	-	-	Prithvi Defense Vehicle	PDV	-	-	CHAN	IC4	-	-	90?	-	-
2019-M05	2458662.12	2019 Jun 27 1500	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2019-M08	2458806.06	2019 Nov 18 1330?	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-M09	2458806.07	2019 Nov 18 1345?	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2020-M08	2459115.50	2020 Sep 23	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-
2020-M09	2459139.08	2020 Oct 16 1400	Prithvi 2	-	-	Test	-	-	-	CHAN	IC3	-	-	50?	250	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-S60	2447216.50	1988 Feb 25	Prithvi	-	1	0.000	IDRDL	MS	-	-	Test	www.fas.org	-	-
1989-S96	2447795.72	1989 Sep 26 0510	Prithvi	-	2	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	FI910306	-
1991-S64	2448298.78	1991 Feb 11 0645	Prithvi	-	3	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	FI910306	-
1991-M01	2448441.85	1991 Jul 4 0822	Prithvi	-	4	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	bharat-rakshak.com	-
1991-M02	2448475.73	1991 Aug 7 0528	Prithvi	-	5	0.000	IDRDL	MS	-	-	Test	nti.org	Ulrich	-
1992-A01	2448665.50	1992 Feb 13	Prithvi	-	6	0.000	IDRDL	MF	U	-	Test	bharat-rakshak.com	-	-
1992-S40	2448747.50	1992 May 5	Prithvi	-	7	0.000	IDRDL	MS	-	-	Test	bharat-rakshak.com	-	-
1992-S72	2448852.67	1992 Aug 18 0400	Prithvi	-	8	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	FI910306	-
1992-S105	2448863.72	1992 Aug 29 0513	Prithvi	-	9	0.000	IDRDL	MS	-	-	Test	TimesOfIndia920829	Ulrich	-
1993-S12	2449025.85	1993 Feb 7 0820	Prithvi	-	10	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	www.fas.org	-
1993-S41	2449150.50	1993 Jun 12	Prithvi	-	11	0.000	IDRDL	MS	-	-	Test	bharat-rakshak.com	FI930901	-
1993-M07	2449321.79	1993 Nov 30 0655	Prithvi	-	12	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	bharat-rakshak.com	-
1994-S36	2449507.76	1994 Jun 4 0610	Prithvi	-	13	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	-	-
1994-S37	2449509.50	1994 Jun 6	Prithvi	-	14	0.000	IDRDL	MS	-	-	Test	Wire	-	-
1996-S04	2450109.87	1996 Jan 27 0852	Prithvi 2	-	2-1 (15)	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	-	-
1996-S01	2450082.50	1996	Prithvi 2	-	2-2	0.000	IDRDL	MS	-	-	Test	www.fas.org	-	-
1997-S19	2450502.77	1997 Feb 23 0622	Prithvi 2	-	2-3	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	-	-
2000-A02	2451645.84	2000 Apr 11 0805	Dhanush	-	-	0.000	IDRDL	MF	U	-	Test	Ulrich/Wire	-	-
2000-S35	2451711.86	2000 Jun 16 0845	Prithvi	-	17	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2001-S16	2451999.75	2001 Mar 31 0600	Prithvi	-	18	0.000	IDRDL	MS	-	-	Test	bharat-rakshak.com	-	-
2001-M04	2452173.50	2001 Sep 21	Dhanush	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2001-S58	2452255.72	2001 Dec 12 0511	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2003-S10	2452724.75	2003 Mar 26 0600	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2003-S20	2452758.74	2003 Apr 29 0550	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2004-S05	2453027.88	2004 Jan 23 0909	Prithvi	-	23	0.000	IDRDL	MS	-	-	Test	Wire	Ulrich	-
2004-M10	2453083.69	2004 Mar 19 0440	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2004-M11	2453305.75	2004 Oct 27 0559	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	expressindia.com	-	-
2004-M08	2453316.78	2004 Nov 7 0650	Dhanush	-	3	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2005-M04	2453502.82	2005 May 12 0734	Prithvi	-	-	0.000	IDRDL	MS	-	-	Test	Rigg	-	-
2005-M05	2453732.85	2005 Dec 28 0828	Dhanush	-	4	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	-	-
2006-M03	2453897.84	2006 Jun 11 0810	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2006-S65	2454058.68	2006 Nov 19 0425	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Rigg	Wire	-
2006-S66	2454066.70	2006 Nov 27 0445	Prithvi	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2006-S67	2454066.70	2006 Nov 27 0446	Prithvi	-	-	0.000	IDRDL	MS	-	-	ABM Test	Wire	-	-
2007-S48	2454189.88	2007 Mar 30 0905	Dhanush	-	5	0.000	IDRDL	MS	-	-	Test	timesofindia.com	-	-
2007-S49	2454229.72	2007 May 9 0510	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2007-S77	2454440.73	2007 Dec 6 0530	Prithvi	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2008-A03	2454609.71	2008 May 23 0456	Prithvi 2	-	2	0.000	ISFC	MS	-	-	Training	Wire	thaiindian.com	-
2009-S12	2454896.95	2009 Mar 6 1054	Dhanush	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2009-M01	2454896.96	2009 Mar 6 1057	Prithvi	-	-	0.000	IDRDL	MS	-	-	ABM Test	Wire	-	-
2009-M03	2454936.70	2009 Apr 15 0450	Prithvi 2	-	2	0.000	ISFC	MS	-	-	Test	Wire	-	-
2009-M06	2455116.71	2009 Oct 12 0458	Prithvi 2	-	2	0.000	ISFC	MS	-	-	Test	Wire	-	-
2009-M07	2455116.71	2009 Oct 12 0503	Prithvi 2	-	2	0.000	ISFC	MS	-	-	Test	Wire	-	-
2009-M08	2455178.75	2009 Dec 13 0601?	Dhanush	-	-	0.000	IDRDL	MS	-	-	Test	Ulrich/Wire	-	-
2010-M05	2455270.69	2010 Mar 15 0432	Prithvi	-	-	0.000	IDRDL	MF	U	-	Target	Rigg	-	-
2010-S25	2455282.51	2010 Mar 27 0014	Dhanush	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2010-S26	2455282.51	2010 Mar 27 0018	Prithvi	-	-	0.000	ISFC	MS	-	-	Target	Wire	-	-
2010-S86	2455365.56	2010 Jun 18 0120?	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2010-S48	2455403.69	2010 Jul 26 0435	Prithvi	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2010-M07	2455552.61	2010 Dec 22 0245	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2010-M08	2455552.66	2010 Dec 22 0345	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2011-M01	2455626.67	2011 Mar 6 0402	Prithvi	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2011-M04	2455631.69	2011 Mar 11 0433	Dhanush	-	-	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2011-M05	2455631.73	2011 Mar 11 0530?	Prithvi 2	-	2	0.000	IDRDL	MS	-	-	Test	Wire	-	-
2011-M02	2455721.65	2011 Jun 9 0335	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2011-S42	2455830.64	2011 Sep 26 0320	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Target	Wire	-	-
2012-S04	2455967.69	2012 Feb 10 0440	Prithvi	?	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2012-S76	2456164.73	2012 Aug 25 0534	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Ulrich/Wire	-	-
2012-S55	2456204.65	2012 Oct 4 0337	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	economictimes.com	thehindu.com	-
2012-S56	2456205.75	2012 Oct 5 0555	Dhanush	-	-	0.000	ISFC	MS	-	-	Test	thehindu.com	-	-
2012-M02	2456254.81	2012 Nov 23 0722	Prithvi	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2012-S74	2456281.66	2012 Dec 20 0351	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2013-S54	2456516.66	2013 Aug 12 0345	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2013-S87	2456572.66	2013 Oct 7 0345	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2013-S91	2456573.78	2013 Oct 8 0650	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2014-A02	2456664.68	2014 Jan 7 0418	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2014-S19	2456774.65	2014 Apr 27 0337	PDV Target	-	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2014-S20	2456774.65	2014 Apr 27 0340?	PDV	?	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2014-A39	2456975.72	2014 Nov 14 0510	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2014-M04	2456976.09	2014 Nov 14 1410	Dhanush	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2015-A01	2457072.66	2015 Feb 19 0345	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2015-M03	2457121.73	2015 Apr 9 0532	Dhanush	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2016-M04	2457713.67	2016 Nov 21 0407	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2016-M05	2457713.67	2016 Nov 21 0408	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2017-M02	2457906.68	2017 Jun 2 0420	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2017-S107	2457796.59	2017 Feb 12 0213?	PDV Target	?	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2017-S108	2457796.59	2017 Feb 12 0215	PDV	-	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2017-M06	2457813.70	2017 Mar 1 0443?	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2017-M08	2457906.68	2017 Jun 2 0420	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2017-M07	2458115.50	2017 Dec 28	Prithvi	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2018-M01	2458171.12	2018 Feb 21 1500	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2018-M02	2458172.72	2018 Feb 23 0522	Dhanush	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2018-S85	2458385.11	2018 Sep 23 1433?	PDV Target	?	-	0.000	IDRDL	MS	-	-	Target	Wire	-	-
2018-S86	2458385.11	2018 Sep 23 1435	PDV	-	-	0.000	IDRDL	MS	-	-	Interceptor	Wire	-	-
2019-M05	2458662.12	2019 Jun 27 1500	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2019-M08	2458806.06	2019 Nov 18 1330?	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-M09	2458806.07	2019 Nov 18 1345?	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2020-M08	2459115.50	2020 Sep 23	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-
2020-M09	2459139.08	2020 Oct 16 1400	Prithvi 2	-	-	0.000	ISFC	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-A34	2431425.50	1944 Dec 1	Private A	-	1	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A35	2431424.50	1944 Dec	Private A	-	2	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A36	2431424.50	1944 Dec	Private A	-	3	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A37	2431424.50	1944 Dec	Private A	-	4	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A38	2431424.50	1944 Dec	Private A	-	5	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A39	2431424.50	1944 Dec	Private A	-	6	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A40	2431424.50	1944 Dec	Private A	-	7	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A41	2431424.50	1944 Dec	Private A	-	8	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A42	2431424.50	1944 Dec	Private A	-	9	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A43	2431424.50	1944 Dec	Private A	-	10	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A44	2431424.50	1944 Dec	Private A	-	11	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A45	2431424.50	1944 Dec	Private A	-	12	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A46	2431424.50	1944 Dec	Private A	-	13	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A47	2431424.50	1944 Dec	Private A	-	14	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A48	2431424.50	1944 Dec	Private A	-	15	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A49	2431424.50	1944 Dec	Private A	-	16	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A50	2431424.50	1944 Dec	Private A	-	17	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A51	2431424.50	1944 Dec	Private A	-	18	No booster	-	-	-	IRW	-	-	-	1	-	-
1944-A52	2431424.50	1944 Dec	Private A	-	19	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A53	2431424.50	1944 Dec	Private A	-	20	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A54	2431424.50	1944 Dec	Private A	-	21	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A55	2431424.50	1944 Dec	Private A	-	22	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A56	2431424.50	1944 Dec	Private A	-	23	-	-	-	-	IRW	-	-	-	5?	-	-
1944-A57	2431440.50	1944 Dec 16	Private A	-	24	-	-	-	-	IRW	-	-	-	5?	-	-
1945-A18	2431546.50	1945 Apr 1	Private F	-	1	Dummy sustainer	-	-	-	FTB	-	-	-	1?	-	-
1945-A19	2431546.50	1945 Apr 1	Private F	-	2	Dummy sustainer	-	-	-	FTB	-	-	-	1?	-	-
1945-A20	2431545.50	1945 Apr	Private F	-	3	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A21	2431545.50	1945 Apr	Private F	-	4	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A22	2431545.50	1945 Apr	Private F	-	5	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A23	2431545.50	1945 Apr	Private F	-	6	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A24	2431545.50	1945 Apr	Private F	-	7	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A25	2431545.50	1945 Apr	Private F	-	8	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A26	2431545.50	1945 Apr	Private F	-	9	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A27	2431545.50	1945 Apr	Private F	-	10	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A28	2431545.50	1945 Apr	Private F	-	11	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A29	2431545.50	1945 Apr	Private F	-	12	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A30	2431545.50	1945 Apr	Private F	-	13	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A31	2431545.50	1945 Apr	Private A	-	14	Private A-1	-	-	-	FTB	-	-	-	8	-	-
1945-A32	2431545.50	1945 Apr	Private F	-	15	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A33	2431545.50	1945 Apr	Private F	-	16	-	-	-	-	FTB	-	-	-	1?	-	-
1945-A34	2431558.50	1945 Apr 13	Private F	-	17	-	-	-	-	FTB	-	-	-	1?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-A34	2431425.50	1944 Dec 1	Private A	-	1	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A35	2431424.50	1944 Dec	Private A	-	2	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A36	2431424.50	1944 Dec	Private A	-	3	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A37	2431424.50	1944 Dec	Private A	-	4	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A38	2431424.50	1944 Dec	Private A	-	5	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A39	2431424.50	1944 Dec	Private A	-	6	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A40	2431424.50	1944 Dec	Private A	-	7	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A41	2431424.50	1944 Dec	Private A	-	8	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A42	2431424.50	1944 Dec	Private A	-	9	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A43	2431424.50	1944 Dec	Private A	-	10	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A44	2431424.50	1944 Dec	Private A	-	11	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A45	2431424.50	1944 Dec	Private A	-	12	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A46	2431424.50	1944 Dec	Private A	-	13	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A47	2431424.50	1944 Dec	Private A	-	14	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A48	2431424.50	1944 Dec	Private A	-	15	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A49	2431424.50	1944 Dec	Private A	-	16	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A50	2431424.50	1944 Dec	Private A	-	17	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A51	2431424.50	1944 Dec	Private A	-	18	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A52	2431424.50	1944 Dec	Private A	-	19	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A53	2431424.50	1944 Dec	Private A	-	20	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A54	2431424.50	1944 Dec	Private A	-	21	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A55	2431424.50	1944 Dec	Private A	-	22	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A56	2431424.50	1944 Dec	Private A	-	23	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1944-A57	2431440.50	1944 Dec 16	Private A	-	24	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A18	2431546.50	1945 Apr 1	Private F	-	1	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A19	2431546.50	1945 Apr 1	Private F	-	2	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A20	2431545.50	1945 Apr	Private F	-	3	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A21	2431545.50	1945 Apr	Private F	-	4	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A22	2431545.50	1945 Apr	Private F	-	5	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A23	2431545.50	1945 Apr	Private F	-	6	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A24	2431545.50	1945 Apr	Private F	-	7	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A25	2431545.50	1945 Apr	Private F	-	8	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A26	2431545.50	1945 Apr	Private F	-	9	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A27	2431545.50	1945 Apr	Private F	-	10	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A28	2431545.50	1945 Apr	Private F	-	11	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A29	2431545.50	1945 Apr	Private F	-	12	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A30	2431545.50	1945 Apr	Private F	-	13	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A31	2431545.50	1945 Apr	Private A	-	14	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A32	2431545.50	1945 Apr	Private F	-	15	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A33	2431545.50	1945 Apr	Private F	-	16	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-
1945-A34	2431558.50	1945 Apr 13	Private F	-	17	0.000	JPL	MS	-	-	Test	Corp-Hist	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M70	2438265.50	1963 Aug 24	Proson M1	-	1	-	-	-	-	CELPA	-	-	-	50	-	-
1963-M71	2438266.50	1963 Aug 25	Proson M1	-	2	-	-	-	-	CELPA	-	-	-	50	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M70	2438265.50	1963 Aug 24	Proson M1	-	1	0.000	CITEF	SS	-	CITEF/	Test	DeLeon	-	-
1963-M71	2438266.50	1963 Aug 25	Proson M1	-	2	0.000	CITEF	SS	-	CITEF/	Test	DeLeon	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-054	2438957.97	1965 Jul 16 1116	UR-500	-	107207-01 (207)	Proton	N-4 No. 1	-	-	NIIP-5	LC81/23	-	-	792	-	-
1965-087	2439067.02	1965 Nov 2 1228	UR-500	-	209	Proton-2	N-4 No. 2	-	-	NIIP-5	LC81/23	-	-	760	-	-
1966-F03	2439209.11	1966 Mar 24 1439	UR-500	-	211	-	N-4 No. 3	-	-	NIIP-5	LC81/23	-	-	180?	-	-
1966-060	2439313.04	1966 Jul 6 1257	UR-500	-	212	Proton-3	N-4 No. 4	-	-	NIIP-5	LC81/23	-	-	608	-	-
1967-021	2439559.98	1967 Mar 10 1130:33	UR-500K/Blok D	-	N10722701	Kosmos-146	L-1 No. 2P	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1967-032	2439588.88	1967 Apr 8 0900:33	Proton-K/D	-	228-01	Kosmos-154	L-1 No. 3P	-	-	NIIP-5	LC81/23	-	-	220	-	-
1967-F11	2439761.42	1967 Sep 27 2211:54	Proton-K/D	-	229-01	-	L-1 No. 4L	-	-	NIIP-5	LC81/23	-	-	30?	-	-
1967-F12	2439817.30	1967 Nov 22 1907:59	Proton-K/D	-	230-01	-	L-1 No. 5L	-	-	NIIP-5	LC81/24	-	-	50?	-	-
1968-013	2439918.27	1968 Mar 2 1829:23	Proton-K/D	-	231-01	Zond-4	L-1 No. 6L	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1968-F03	2439969.46	1968 Apr 22 2301:27	Proton-K/D	-	232-01	-	L-1 No. 7L	-	-	NIIP-5	LC81/24	-	-	120?	-	-
1968-E01	2440052.50	1968 Jul 15	Proton-K/D	-	-	-	-	-	-	NIIP-5	LC81/24?	-	-	0	-	-
1968-076	2440114.40	1968 Sep 14 2142:11	Proton-K/D	-	234-01	Zond-5	L-1 No. 9L	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1968-101	2440171.30	1968 Nov 10 1911:31	Proton-K/D	-	235-01	Zond-6	L-1 No. 12L	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1968-103	2440176.99	1968 Nov 16 1140	Proton-K	-	236-01	Proton-4	N-6 No. 1	-	-	NIIP-5	LC81/24	-	-	481	-	-
1969-F01	2440241.68	1969 Jan 20 0414:36	Proton-K/D	-	237-01	-	L-1 No. 13L	-	-	NIIP-5	LC81/23	-	-	200?	-	-
1969-F04	2440271.78	1969 Feb 19 0648:15	Proton-K/D	-	239-01	-	E-8 No. 201	-	-	NIIP-5	LC81/24	-	-	15?	-	-
1969-F06	2440307.94	1969 Mar 27 1040:45	Proton-K/D	-	240-01	-	2M No. 521	-	-	NIIP-5	LC81/23	-	-	180?	-	-
1969-F07	2440313.94	1969 Apr 2 1033:00	Proton-K/D	-	233-01	-	2M No. 522	-	-	NIIP-5	LC81/24	-	-	40?	-	-
1969-F08	2440386.67	1969 Jun 14 0400:47	Proton-K/D	-	238-01	-	E-8-5 No. 402	-	-	NIIP-5	LC81/24	-	-	200?	-	-
1969-058	2440415.62	1969 Jul 13 0254:42	Proton-K/D	-	242-01	Luna-15	E-8-5 No. 401	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1969-067	2440441.49	1969 Aug 7 2348:06	Proton-K/D	-	243-01	Zond-7	L-1 No. 11	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1969-080	2440488.09	1969 Sep 23 1407:36	Proton-K/D	-	244-01	Kosmos-300	E-8-5 No. 403	-	-	NIIP-5	LC81/24	-	-	207	-	-
1969-092	2440517.09	1969 Oct 22 1409:59	Proton-K/D	-	241-01	Kosmos-305	VA	-	-	NIIP-5	LC81/24	-	-	215	-	-
1969-F14	2440553.88	1969 Nov 28 0900:00	Proton-K/D	-	245-01 Yu10724-501	-	L-1e No 1	-	-	NIIP-5	LC81/23	-	-	180	-	-
1970-F02	2440623.68	1970 Feb 6 0416:06	Proton-K/D	-	247-01	-	E-8-5 No. 405	-	-	NIIP-5	LC81/23?	-	-	50?	-	-
1970-S488	2440816.66	1970 Aug 18 0345:00	Proton-K	-	246-01	82-EV	GVM 7K-L1E	-	-	NIIP-5	LC81/23	-	-	200?	-	Kura
1970-072	2440842.06	1970 Sep 12 1325:53	Proton-K/D	-	248-01	Luna-16	E-8-5 No. 406	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1970-088	2440880.33	1970 Oct 20 1955:39	Proton-K/D	-	250-01	Zond-8	L-1 No. 14	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1970-095	2440901.11	1970 Nov 10 1444:01	Proton-K/D	-	251-01	Luna-17	E-8 No. 203	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1970-103	2440923.21	1970 Dec 2 1700:00	Proton-K/D	-	252-01	Kosmos-382	L-1e No. 2K	-	-	NIIP-5	LC81/23	-	-	6386	-	-
1971-032	2441060.57	1971 Apr 19 0140:00	Proton-K	-	254-01	Salyut	DOS-1 17K No. 121	-	-	NIIP-5	LC81/24	-	-	318	-	-
1971-042	2441082.21	1971 May 10 1658:42	Proton-K/D	-	253-01	Kosmos-419	3MS No. 170	-	-	NIIP-5	LC81/23	-	-	191	-	-
1971-045	2441091.18	1971 May 19 1622:44	Proton-K/D	-	255-01	Mars-2	4M No. 171	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1971-049	2441100.14	1971 May 28 1526:30	Proton-K/D	-	249-01	Mars-3	4M No. 172	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1971-073	2441197.07	1971 Sep 2 1340:40	Proton-K/D	-	256-01	Luna-18	E-8-5 No. 407	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1971-082	2441222.92	1971 Sep 28 1000:22	Proton-K/D	-	257-01	Luna-19	E-8LS No. 202	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1972-007	2441361.64	1972 Feb 14 0327:59	Proton-K/D	-	258-01	Luna-20	VA	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1972-F04	2441527.64	1972 Jul 29 0320:57	Proton-K	-	260-01	-	DOS 2 (17K No. 122)	-	-	NIIP-5	LC81/23	-	-	90?	-	-
1973-001	2441690.79	1973 Jan 8 0655:38	Proton-K/D	-	259-01	Luna-21	E-8 No. 204	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1973-017	2441775.88	1973 Apr 3 0900:00	Proton-K	-	283-01	Salyut-2	Almaz OPS 1	-	-	NIIP-5	LC81/23	-	-	374	-	-
1973-026	2441813.51	1973 May 11 0020:00	Proton-K	-	284-01	Kosmos-557	DOS 3	-	-	NIIP-5	LC81/23	-	-	249	-	-
1973-047	2441885.31	1973 Jul 21 1930:59	Proton-K/D	-	261-01	Mars-4	3MS No. 52S	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1973-049	2441889.29	1973 Jul 25 1855:48	Proton-K/D	-	262-01	Mars-5	3MS No. 53S	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1973-052	2441900.24	1973 Aug 5 1745:48	Proton-K/D	-	281-01	Mars-6	3MP No. 50P	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1973-053	2441904.21	1973 Aug 9 1700:17	Proton-K/D	-	281-02	Mars-7	3MP No. 51P	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1974-017	2442133.07	1974 Mar 26 1335:00	Proton-K/DM	-	282-01	Kosmos-637	11F638 GVM	-	-	NIIP-5	LC81/23	-	-	36082	-	-
1974-037	2442196.87	1974 May 29 0856:51	Proton-K/D	-	282-02	Luna-22	E-8LS No. 206	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1974-046	2442223.44	1974 Jun 24 2238:00	Proton-K	-	283-02	Salyut-3	Almaz 2 (11F71 No. 101-2	-	-	NIIP-5	LC81/23	-	-	291	-	-
1974-060	2442258.00	1974 Jul 29 1200:00	Proton-K/DM	-	287-01	Molniya-1S	Molniya-1 11F658 No. 38	-	-	NIIP-5	LC81/24	-	-	36547	-	-
1974-084	2442349.10	1974 Oct 28 1430:32	Proton-K/D	-	285-01	Luna-23	E-8-5M No. 410	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1974-104	2442407.68	1974 Dec 26 0415:00	Proton-K	-	284-02	Salyut-4	DOS 4 (17K No. 124)	-	-	NIIP-5	LC81/24	-	-	380	-	-
1975-050	2442571.61	1975 Jun 8 0238:00	Proton-K/D	-	286-01	Venera-9	4V-1 No. 660	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1975-054	2442577.63	1975 Jun 14 0300:31	Proton-K/D	-	285-02	Venera-10	4V-1 No. 661	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1975-097	2442693.52	1975 Oct 8 0030:00	Proton-K/DM	-	286-02	Kosmos-775	Oko?	-	-	NIIP-5	LC81/23	-	-	35978	-	-
1975-F05	2442701.67	1975 Oct 16 0404:56	Proton-K/D-1	-	287-02	-	E-8-5M No. 412	-	-	NIIP-5	LC81/23	-	-	190?	-	-
1975-123	2442769.04	1975 Dec 22 1300:00	Proton-K/DM	-	288-01	Raduga	Gran' No. 11L	-	-	NIIP-5	LC81/24	-	-	36599	-	-
1976-057	2442952.25	1976 Jun 22 1804:00	Proton-K	-	290-02	Salyut-5	Almaz OPS 3	-	-	NIIP-5	LC81/23	-	-	273	-	-
1976-081	2443000.13	1976 Aug 9 1504:12	Proton-K/D-1	-	288-02	Luna-24	E-8-5M No. 413	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1976-092	2443033.27	1976 Sep 11 1824:00	Proton-K/DM	-	289-01	Raduga	Gran' No. 12L	-	-	NIIP-5	LC81/24	-	-	36954	-	-
1976-107	2443078.12	1976 Oct 26 1450:00	Proton-K/DM	-	290-01	Ekran	Ekran No. 11L	-	-	NIIP-5	LC81/24	-	-	36176	-	-
1976-121	2443127.56	1976 Dec 15 0130:00	Proton-K	-	289-02	Kosmos-881/882	TKS VA No. 009A/1	-	-	NIIP-5	LC81/24	-	-	241	-	-
1977-066	2443341.88	1977 Jul 17 0900:00	Proton-K	-	293-02	Kosmos-929	TKS No. 16101	-	-	NIIP-5	LC81/24	-	-	448	-	-
1977-071	2443348.39	1977 Jul 23 2115:00	Proton-K/DM	-	291-01	Raduga	Gran' No. 13L	-	-	NIIP-5	LC200/40	-	-	36681	-	-
1977-F02	2443360.42	1977 Aug 4 2200:00	Proton-K	-	293-01	-	TKS VA No. 009A/P	-	-	NIIP-5	LC81/24	-	-	20?	-	-
1977-092	2443407.23	1977 Sep 20 1728:00	Proton-K/DM	-	291-02	Ekran	Ekran No. 12L	-	-	NIIP-5	LC200/40	-	-	37364	-	-
1977-097	2443415.78	1977 Sep 29 0650:00	Proton-K	-	295-01	Salyut-6	DOS 5	-	-	NIIP-5	LC81/24	-	-	436	-	-
1978-032	2443597.50	1978 Mar 30 0000:00	Proton-K	-	292-01	Kosmos-997/998	TKS VA No. 009A/P2	-	-	NIIP-5	LC81/24?	-	-	213	-	-
1978-F02	2443655.56	1978 May 27 0125:00	Proton-K/DM	-	294-02	-	Ekran No. 13L	-	-	NIIP-5	LC200/40	-	-	40?	-	-
1978-073	2443708.42	1978 Jul 18 2159:00	Proton-K/DM	-	292-02	Raduga	Gran' No. 14L	-	-	NIIP-5	LC200/40	-	-	36694	-	-
1978-F03	2443738.33	1978 Aug 17 2002:00	Proton-K/DM	-	297-02	-	Ekran No. 15L	-	-	NIIP-5	LC200/40	-	-	100?	-	-
1978-084	2443760.64	1978 Sep 9 0325:39	Proton-K/D-1	-	296-01	Venera-11	4V-1 No. 360	-	-	NIIP-5	LC81/23	-	-	150000	-	-
1978-086	2443765.60	1978 Sep 14 0225:13	Proton-K/D-1	-	296-02	Venera-12	4V-1 No. 361	-	-	NIIP-5	LC81/24	-	-	150000	-	-
1978-F04	2443799.17	1978 Oct 17 1604:00	Proton-K/DM	-	298-01	-	Ekran No. 14L	-	-	NIIP-5	LC200/40	-	-	100?	-	-
1978-118	2443862.01	1978 Dec 19 1215:00	Proton-K/DM	-	295-02	Gorizont	Gorizont No. 11L	-	-	NIIP-5	LC200/40	-	-	51018	-	-
1979-015	2443925.83	1979 Feb 21 0749:00	Proton-K/DM	-	294-01	Ekran	Ekran No. 16L	-	-	NIIP-5	LC200/40	-	-	37307	-	-
1979-035	2443988.66	1979 Apr 25 0344:00	Proton-K/DM	-	298-02	Raduga	Gran' No. 15L	-	-	NIIP-5	LC200/40	-	-	39229	-	-
1979-042	2444016.46	1979 May 22 2300:00	Proton-K	-	300-02	Kosmos-1100/1101	TKS VA No. 0102A	-	-	NIIP-5	LC81/24	-	-	230	-	-
1979-062	2444060.47	1979 Jul 5 2319:00	Proton-K/DM	-	299-01	Gorizont	Gorizont No. 12L	-	-	NIIP-5	LC200/40	-	-	36928	-	-
1979-087	2444150.22	1979 Oct 3 1712:00	Proton-K/DM	-	302-02	Ekran	Ekran No. 17L	-	-	NIIP-5	LC200/40	-	-	37138	-	-
1979-105	2444235.99	1979 Dec 28 1151:00	Proton-K/DM	-	303-01	Gorizont	Gorizont No. 13L	-	-	NIIP-5	LC200/40	-	-	36885	-	-
1980-016	2444289.84	1980 Feb 20 0805:00	Proton-K/DM	-	297-01	Raduga	Gran' No. 16L	-	-	NIIP-5	LC200/39	-	-	41456	-	-
1980-049	2444404.53	1980 Jun 14 0049:50	Proton-K/DM	-	303-02	Gorizont	Gorizont No. 15L	-	-	NIIP-5	LC200/39	-	-	36766	-	-
1980-060	2444435.44	1980 Jul 14 2235	Proton-K/DM	-	301-01	Ekran	Ekran No. 19L	-	-	NIIP-5	LC200/40	-	-	36349	-	-
1980-081	2444518.22	1980 Oct 5 1710:00	Proton-K/DM	-	300-01	Raduga	Gran' No. 17L	-	-	NIIP-5	LC200/39	-	-	41398	-	-
1980-104	2444599.99	1980 Dec 26 1149:00	Proton-K/DM	-	304-01	Ekran	Ekran No. 20L	-	-	NIIP-5	LC200/40	-	-	36641	-	-
1981-027	2444681.69	1981 Mar 18 0440:00	Proton-K/DM	-	306-01	Raduga	Gran' No. 18L	-	-	NIIP-5	LC200/40	-	-	38910	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-039	2444719.58	1981 Apr 25 0201	Proton-K	-	299-02	Kosmos-1267	TKS No. 16301	-	-	NIIP-5	LC200/39	-	-	410	-	-
1981-061	2444781.50	1981 Jun 25 2355:00	Proton-K/DM	-	305-01	Ekran	Ekran No. 21L	-	-	NIIP-5	LC200/40	-	-	36921	-	-
1981-069	2444816.40	1981 Jul 30 2138:00	Proton-K/DM	-	301-02	Raduga	Gran' No. 19L	-	-	NIIP-5	LC200/39	-	-	37194	-	-
1981-102	2444887.21	1981 Oct 9 1659:00	Proton-K/DM	-	310-01	Raduga	Gran' No. 20L	-	-	NIIP-5	LC200/39	-	-	39355	-	-
1981-106	2444907.75	1981 Oct 30 0604:22	Proton-K/D-1	-	311-01	Venera-13	4V-1M No. 760	-	-	NIIP-5	LC200/40	-	-	150000	-	-
1981-110	2444912.73	1981 Nov 4 0531:16	Proton-K/D-1	-	311-02	Venera-14	4V-1M No. 761	-	-	NIIP-5	LC200/39	-	-	150000	-	-
1982-009	2445005.88	1982 Feb 5 0912:00	Proton-K/DM	-	308-01	Ekran	Ekran No. 22L	-	-	NIIP-5	LC200/40	-	-	36575	-	-
1982-020	2445043.69	1982 Mar 15 0439:00	Proton-K/DM	-	305-02	Gorizont	Gorizont No. 14L	-	-	NIIP-5	LC200/39	-	-	42755	-	-
1982-033	2445079.32	1982 Apr 19 1945:00	Proton-K	-	306-02	Salyut-7	DOS 6 (17K No. 125-02)	-	-	NIIP-5	LC200/40	-	-	521	-	-
1982-044	2445107.49	1982 May 17 2350:00	Proton-K/DM	-	310-02	Kosmos-1366	Geizer No. 11L	-	-	NIIP-5	LC200/39	-	-	38941	-	-
1982-F04	2445173.42	1982 Jul 22 2211:00	Proton-K/DM	-	307-02	-	Ekran No. 23L	-	-	NIIP-5	LC200/40	-	-	10?	-	-
1982-093	2445229.27	1982 Sep 16 1831:00	Proton-K/DM	-	309-01	Ekran	Ekran No. 24L	-	-	NIIP-5	LC200/40	-	-	38515	-	-
1982-100	2445255.12	1982 Oct 12 1456:59	Proton-K/DM-2	-	315-01	Kosmos-1413/1415	Uragan No. 11L	-	-	NIIP-5	LC200/39	-	-	19491	-	-
1982-103	2445263.18	1982 Oct 20 1626:00	Proton-K/DM	-	312-01	Gorizont	Gorizont No. 16L	-	-	NIIP-5	LC200/40	-	-	36657	-	-
1982-113	2445300.09	1982 Nov 26 1413:00	Proton-K/DM	-	313-01	Raduga	Gran' No. 21L	-	-	NIIP-5	LC200/39	-	-	37449	-	-
1982-F08	2445328.00	1982 Dec 24 1200:00	Proton-K/DM	-	314-01	-	Gran' No. 22L	-	-	NIIP-5	LC200/39	-	-	60?	-	-
1983-013	2445395.90	1983 Mar 2 0937:08	Proton-K	-	309-02	Kosmos-1443	TKS-M No. 16401	-	-	NIIP-5	LC200/39	-	-	395	-	-
1983-016	2445406.08	1983 Mar 12 1400:00	Proton-K/DM	-	304-02	Ekran	Ekran No. 18L	-	-	NIIP-5	LC200/40	-	-	37694	-	-
1983-020	2445417.03	1983 Mar 23 1245:06	Proton-K/D-1	-	307-01	Astron	1A No. 602	-	-	NIIP-5	LC200/39	-	-	150000	-	-
1983-028	2445432.70	1983 Apr 8 0445:00	Proton-K/DM	-	315-02	Raduga	Gran' No. 23L	-	-	NIIP-5	LC200/40	-	-	36806	-	-
1983-053	2445487.61	1983 Jun 2 0238:40	Proton-K/D-1	-	321-01	Venera-15	4V-2 No. 860	-	-	NIIP-5	LC200/39	-	-	150000	-	-
1983-054	2445492.61	1983 Jun 7 0232:51	Proton-K/D-1	-	321-02	Venera-16	4V-2 No. 861	-	-	NIIP-5	LC200/40	-	-	150000	-	-
1983-066	2445516.50	1983 Jun 30 2356:00	Proton-K/DM	-	314-02	Gorizont	Gorizont No. 17L	-	-	NIIP-5	LC200/39	-	-	36647	-	-
1983-084	2445557.27	1983 Aug 10 1824:26	Proton-K/DM-2	-	317-01	Kosmos-1490/1492	Uragan No. 12L	-	-	NIIP-5	LC200/39	-	-	19627	-	-
1983-088	2445572.33	1983 Aug 25 2002:00	Proton-K/DM	-	316-02	Raduga	Gran' No. 24L	-	-	NIIP-5	LC200/40	-	-	36639	-	-
1983-100	2445607.23	1983 Sep 29 1737:00	Proton-K/DM	-	318-01	Ekran	Ekran No. 25L	-	-	NIIP-5	LC200/40	-	-	36278	-	-
1983-118	2445669.08	1983 Nov 30 1351:00	Proton-K/DM	-	308-02	Gorizont	Gorizont No. 18L	-	-	NIIP-5	LC200/39	-	-	36808	-	-
1983-127	2445697.54	1983 Dec 29 0052:24	Proton-K/DM-2	-	320-02	Kosmos-1519/1521	Uragan No. 14L	-	-	NIIP-5	LC200/40	-	-	19533	-	-
1984-016	2445745.87	1984 Feb 15 0846:00	Proton-K/DM	-	318-02	Raduga	Gran' No. 25L	-	-	NIIP-5	LC200/39	-	-	37637	-	-
1984-022	2445761.66	1984 Mar 2 0354:00	Proton-K/DM	-	316-01	Kosmos-1540	Geizer No. 12L	-	-	NIIP-5	LC200/40	-	-	36341	-	-
1984-028	2445776.08	1984 Mar 16 1400:00	Proton-K/DM	-	322-01	Ekran	Ekran No. 26L	-	-	NIIP-5	LC200/39	-	-	37126	-	-
1984-031	2445788.75	1984 Mar 29 0552:56	Proton-K/DM	-	319-02	Kosmos-1546	Oko-S F1	-	-	NIIP-5	LC200/40	-	-	36919	-	-
1984-041	2445812.68	1984 Apr 22 0421:00	Proton-K/DM	-	312-02	Gorizont	Gorizont No. 19L	-	-	NIIP-5	LC200/39	-	-	36367	-	-
1984-047	2445840.13	1984 May 19 1510:42	Proton-K/DM-2	-	323-02	Kosmos-1554/1556	Uragan No. 16L	-	-	NIIP-5	LC200/40	-	-	19338	-	-
1984-063	2445873.51	1984 Jun 22 0020:00	Proton-K/DM	-	319-01	Raduga	Gran' No. 27L	-	-	NIIP-5	LC200/39	-	-	37300	-	-
1984-078	2445914.40	1984 Aug 1 2137:00	Proton-K/DM	-	324-01	Gorizont	Gorizont No. 20L	-	-	NIIP-5	LC200/40	-	-	36340	-	-
1984-090	2445937.33	1984 Aug 24 1950:00	Proton-K/DM	-	324-02	Ekran	Ekran No. 27L	-	-	NIIP-5	LC200/39	-	-	37119	-	-
1984-095	2445948.16	1984 Sep 4 1549:53	Proton-K/DM-2	-	320-01	Kosmos-1593/1595	Uragan No. 18L	-	-	NIIP-5	LC200/40	-	-	22845	-	-
1984-106	2445972.08	1984 Sep 28 1400:00	Proton-K/DM-2	-	327-02	Kosmos-1603	Tselina-2	-	-	NIIP-5	LC200/39	-	-	872	-	-
1984-125	2446049.89	1984 Dec 15 0916:24	Proton-K/D-1	-	329-01	Vega-1	5VK No. 901	-	-	NIIP-5	LC200/39	-	-	150000	-	-
1984-128	2446055.88	1984 Dec 21 0913:52	Proton-K/D-1	-	325-02	Vega-2	5VK No. 902	-	-	NIIP-5	LC200/40	-	-	150000	-	-
1985-007	2446083.93	1985 Jan 18 1025:00	Proton-K/DM	-	326-02	Gorizont	Gorizont No. 21L	-	-	NIIP-5	LC200/39	-	-	36485	-	-
1985-016	2446117.83	1985 Feb 21 0756:48	Proton-K/DM	-	327-01	Kosmos-1629	Oko-S F2	-	-	NIIP-5	LC200/39	-	-	36483	-	-
1985-024	2446146.71	1985 Mar 22 0500:00	Proton-K/DM	-	328-01	Ekran	Ekran No. 28L	-	-	NIIP-5	LC200/40	-	-	37503	-	-
1985-037	2446203.44	1985 May 17 2228:41	Proton-K/DM-2	-	330-02	Kosmos-1650/52	Uragan No. 20L	-	-	NIIP-5	LC200/39	-	-	21965	-	-
1985-042	2446216.12	1985 May 30 1459:00	Proton-K/DM-2	-	313-02	Kosmos-1656	Tselina-2	-	-	NIIP-5	LC200/40	-	-	862	-	-
1985-070	2446286.38	1985 Aug 8 2101:00	Proton-K/DM	-	317-02	Raduga	Gran' No. 26L	-	-	NIIP-5	LC200/39	-	-	36637	-	-
1985-086	2446335.86	1985 Sep 27 0841:42	Proton-K	-	331-01	Kosmos-1686	TKS-M No. 16501	-	-	NIIP-5	LC200/39	-	-	496	-	-
1985-102	2446364.16	1985 Oct 25 1545:00	Proton-K/DM-2	-	332-02	Kosmos-1700	Al'tair No. 11L	-	-	NIIP-5	LC200/40	-	-	36357	-	-
1985-107	2446385.10	1985 Nov 15 1429:00	Proton-K/DM	-	326-01	Raduga	Gran' No. 28L	-	-	NIIP-5	LC200/39	-	-	37473	-	-
1985-118	2446424.41	1985 Dec 24 2143:28	Proton-K/DM-2	-	334-02	Kosmos-1710/1712	Uragan No. 22L	-	-	NIIP-5	LC200/39	-	-	19401	-	-
1986-007	2446447.93	1986 Jan 17 1020:00	Proton-K/DM	-	331-02	Raduga	Gran' No. 29L	-	-	NIIP-5	LC200/40	-	-	36778	-	-
1986-017	2446481.39	1986 Feb 19 2128:23	Proton-K	-	337-01	Mir	DOS 7 (17K No. 127-01)	-	-	NIIP-5	LC200/39	-	-	472	-	-
1986-027	2446524.66	1986 Apr 4 0345:00	Proton-K/DM	-	302-01	Kosmos-1738	Geizer No. 13L	-	-	NIIP-5	LC200/40	-	-	37111	-	-
1986-038	2446574.57	1986 May 24 0142:00	Proton-K/DM	-	333-01	Ekran	Ekran No. 30L	-	-	NIIP-5	LC200/39	-	-	38233	-	-
1986-044	2446591.53	1986 Jun 10 0049:00	Proton-K/DM	-	322-02	Gorizont	Gorizont No. 24L	-	-	NIIP-5	LC200/40	-	-	37017	-	-
1986-071	2446689.98	1986 Sep 16 1138:09	Proton-K/DM-2	-	336-01	Kosmos-1778/1780	Uragan No. 24L	-	-	NIIP-5	LC200/40	-	-	19570	-	-
1986-082	2446729.15	1986 Oct 25 1543:00	Proton-K/DM	-	335-02	Raduga	Gran' No. 30L	-	-	NIIP-5	LC200/40	-	-	36740	-	-
1986-090	2446753.09	1986 Nov 18 1408:03	Proton-K/DM	-	334-01	Gorizont	Gorizont No. 22L	-	-	NIIP-5	LC200/39	-	-	37225	-	-
1986-F07	2446763.83	1986 Nov 29 0800	Proton-K	-	338-01	-	Mech-K No. 303	-	-	NIIP-5	LC200/40	-	-	50?	-	-
1987-010	2446825.89	1987 Jan 30 0919:00	Proton-K/DM-2	-	341-01	Kosmos-1817	Ekran-M No. 11L	-	-	NIIP-5	LC200/40	-	-	257	-	-
1987-028	2446873.66	1987 Mar 19 0354:00	Proton-K/DM	-	323-01	Raduga	Gran' No. 31L	-	-	NIIP-5	LC200/40	-	-	37227	-	-
1987-030	2446885.50	1987 Mar 31 0006:16	Proton-K	-	336-02	Kvant	TsM-e 37Ke No. 010	-	-	NIIP-5	LC200/39	-	-	473	-	-
1987-036	2446910.03	1987 Apr 24 1242:54	Proton-K/DM-2	-	335-01	Kosmos-1838/1840	Uragan No. 30L	-	-	NIIP-5	LC200/40	-	-	17648	-	-
1987-040	2446927.11	1987 May 11 1445:00	Proton-K/DM	-	338-02	Gorizont	Gorizont No. 23L	-	-	NIIP-5	LC200/39	-	-	36890	-	-
1987-064	2447001.88	1987 Jul 25 0900:00	Proton-K	-	347-01	Kosmos-1870	Mech-K No. 304	-	-	NIIP-5	LC200/40	-	-	287	-	-
1987-073	2447042.31	1987 Sep 3 1926:00	Proton-K/DM	-	337-02	Ekran	Ekran No. 29L	-	-	NIIP-5	LC200/39	-	-	36924	-	-
1987-079	2447054.62	1987 Sep 16 0253:31	Proton-K/DM-2	-	339-02	Kosmos-1883/1885	Uragan No. 33L	-	-	NIIP-5	LC200/40	-	-	20173	-	-
1987-084	2447070.21	1987 Oct 1 1709:00	Proton-K/DM-2	-	328-02	Kosmos-1888	Geizer No. 15L	-	-	NIIP-5	LC200/39	-	-	36501	-	-
1987-091	2447097.14	1987 Oct 28 1515:00	Proton-K/DM-2	-	325-01	Kosmos-1894	Oko-S F3	-	-	NIIP-5	LC200/40	-	-	36185	-	-
1987-096	2447126.06	1987 Nov 26 1328:00	Proton-K/DM-2	-	330-01	Kosmos-1897	Al'tair No. 12L	-	-	NIIP-5	LC200/39	-	-	36215	-	-
1987-100	2447139.98	1987 Dec 10 1130:00	Proton-K/DM-2	-	343-01	Raduga	Gran' No. 32L	-	-	NIIP-5	LC200/40	-	-	35843	-	-
1987-109	2447156.98	1987 Dec 27 1125:00	Proton-K/DM-2	-	345-01	Ekran	Ekran-M No. 13L	-	-	NIIP-5	LC200/39	-	-	37275	-	-
1988-F01	2447178.92	1988 Jan 18 0958:00	Proton-K/DM-2	-	341-02	Gorizont	Gorizont No. 25L	-	-	NIIP-5	LC200/40	-	-	200?	-	-
1988-009	2447208.52	1988 Feb 17 0023:22	Proton-K/DM-2	-	346-02	Kosmos-1917/1919	Uragan No. 36L	-	-	NIIP-5	LC200/39	-	-	468	-	-
1988-028	2447251.68	1988 Mar 31 0418:00	Proton-K/DM	-	343-02	Gorizont	Gorizont No. 26L	-	-	NIIP-5	LC200/40	-	-	36661	-	-
1988-034	2447277.64	1988 Apr 26 0315:10	Proton-K/DM-2	-	332-01	Kosmos-1940	Geofizika?	-	-	NIIP-5	LC200/39	-	-	36768	-	-
1988-036	2447287.62	1988 May 6 0247:00	Proton-K/DM	-	349-01	Ekran	Ekran No. 31L	-	-	NIIP-5	LC200/39	-	-	37369	-	-
1988-043	2447303.25	1988 May 21 1757:00	Proton-K/DM-2	-	348-01	Kosmos-1946/1948	Uragan No. 39L	-	-	NIIP-5	LC200/39	-	-	19526	-	-
1988-058	2447350.23	1988 Jul 7 1738:04	Proton-K/D-2	-	356-02	Fobos-1	1F No. 101	-	-	NIIP-5	LC200/39	-	-	150000	-	-
1988-059	2447355.21	1988 Jul 12 1701:43	Proton-K/D-2	-	356-01	Fobos-2	1F No. 102	-	-	NIIP-5	LC200/40	-	-	150000	-	-
1988-066	2447375.38	1988 Aug 1 2104:00	Proton-K/DM-2	-	351-01	Kosmos-1961	Geizer No. 16L	-	-	NIIP-5	LC200/39	-	-	42405	-	-
1988-071	2447392.33	1988 Aug 18 1952:00	Proton-K/DM-2	-	333-02	Gorizont	Gorizont No. 28L	-	-	NIIP-5	LC200/40	-	-	36267	-	-
1988-085	2447420.58	1988 Sep 16 0200:47	Proton-K/DM-2	-	349-02	Kosmos-1970/1972	Uragan No. 42L	-	-	NIIP-5	LC200/39	-	-	19527	-	-
1988-095	2447455.15	1988 Oct 20 1543:00	Proton-K/DM-2	-	339-01	Raduga	Gran' No. 34L	-	-	NIIP-5	LC200/39	-	-	36773	-	-
1988-108	2447506.00	1988 Dec 10 1154:00	Proton-K/DM-2	-	329-02	Ekran	Ekran-M No. 12L	-	-	NIIP-5	LC200/40	-	-	36980	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-001	2447536.59	1989 Jan 10 0205:25	Proton-K/DM-2	-	350-02	Kosmos-1987/1989	Uragan No. 27L	-	-	GIK-5	LC200/39	-	-	19379	-	-
1989-004	2447552.89	1989 Jan 26 0916:00	Proton-K/DM-2	-	351-02	Gorizont	Gorizont No. 29L	-	-	GIK-5	LC200/40	-	-	38302	-	-
1989-030	2447630.67	1989 Apr 14 0408:00	Proton-K/DM-2	-	359-02	Raduga	Gran' No. 33L	-	-	GIK-5	LC200/39	-	-	38070	-	-
1989-039	2447677.86	1989 May 31 0831:59	Proton-K/DM-2	-	352-02	Kosmos-2022/2024	Uragan No. 28L	-	-	GIK-5	LC200/40	-	-	19592	-	-
1989-048	2447699.48	1989 Jun 21 2335:00	Proton-K/DM-2	-	355-02	Raduga-1	Globus No. 11	-	-	GIK-5	LC200/39	-	-	37495	-	-
1989-052	2447713.45	1989 Jul 5 2245:00	Proton-K/DM-2	-	340-02	Gorizont	Gorizont No. 27L	-	-	GIK-5	LC200/40	-	-	36206	-	-
1989-081	2447798.21	1989 Sep 28 1705:00	Proton-K/DM-2	-	346-01	Gorizont	Gorizont No. 31L	-	-	GIK-5	LC200/40	-	-	37572	-	-
1989-093	2447857.04	1989 Nov 26 1301:41	Proton-K	-	354-01	Kvant-2	TsM-D	-	-	GIK-5	LC200/39	-	-	420	-	-
1989-096	2447862.35	1989 Dec 1 2020:57	Proton-K/D-1	-	352-01	Granat	1AS No. 1	-	-	GIK-5	LC200/40	-	-	150000	-	-
1989-098	2447875.98	1989 Dec 15 1130:00	Proton-K/DM-2	-	344-01	Raduga	Gran' No. 36L	-	-	GIK-5	LC81/23	-	-	38786	-	-
1989-101	2447887.97	1989 Dec 27 1110:00	Proton-K/DM-2	-	347-02	Kosmos-2054	Al'tair No. 14L	-	-	GIK-5	LC200/39	-	-	37068	-	-
1990-016	2447937.83	1990 Feb 15 0752:00	Proton-K/DM-2	-	363-02	Raduga	Gran' No. 35L	-	-	GIK-5	LC81/23	-	-	38161	-	-
1990-045	2448030.86	1990 May 19 0832:33	Proton-K/DM-2	-	350-01	Kosmos-2079/2081	Uragan No. 46L	-	-	GIK-5	LC200/40	-	-	19371	-	-
1990-048	2448042.94	1990 May 31 1033:20	Proton-K	-	360-01	Kristall	TsM-T 77KST No. 17201	-	-	GIK-5	LC200/39	-	-	421	-	-
1990-054	2448063.48	1990 Jun 20 2336:00	Proton-K/DM	-	342-02	Gorizont	Gorizont No. 30L	-	-	GIK-5	LC200/40	-	-	36146	-	-
1990-061	2448091.41	1990 Jul 18 2146:00	Proton-K/DM-2	-	340-01	Kosmos-2085	Geizer No. 17L	-	-	GIK-5	LC200/39	-	-	39863	-	-
1990-F04	2448113.35	1990 Aug 9 2018:59	Proton-K/DM-2	-	345-02	-	Ekran-M No. 14L	-	-	GIK-5	LC200/39	-	-	58?	-	-
1990-094	2448199.11	1990 Nov 3 1440:00	Proton-K/DM-2	-	370-01	Gorizont	Gorizont No. 32L	-	-	GIK-5	LC81/23	-	-	36820	-	-
1990-102	2448219.06	1990 Nov 23 1322:00	Proton-K/DM-2	-	348-02	Gorizont	Gorizont No. 33L	-	-	GIK-5	LC200/39	-	-	38198	-	-
1990-110	2448233.61	1990 Dec 8 0243:00	Proton-K/DM-2	-	366-02	Kosmos-2109/2111	Uragan No. 47L	-	-	GIK-5	LC200/40	-	-	19632	-	-
1990-112	2448245.98	1990 Dec 20 1135:00	Proton-K/DM-2	-	361-01	Raduga	Gran' No. 37L	-	-	GIK-5	LC81/23	-	-	36029	-	-
1990-116	2448252.96	1990 Dec 27 1108:00	Proton-K/DM-2	-	342-01	Raduga-1	Globus No. 12	-	-	GIK-5	LC200/39	-	-	36653	-	-
1991-010	2448301.86	1991 Feb 14 0831:56	Proton-K/DM-2	-	344-02	Kosmos-2133	Oko-1 No. 7120	-	-	GIK-5	LC200/39	-	-	36151	-	-
1991-014	2448315.73	1991 Feb 28 0530:00	Proton-K/DM-2	-	360-02	Raduga	Gran' No. 38L	-	-	GIK-5	LC81/23	-	-	36094	-	-
1991-024	2448347.13	1991 Mar 31 1512:00	Proton-K	-	365-01	Almaz-1	Mech-KU No. 305	-	-	GIK-5	LC200/40	-	-	358	-	-
1991-025	2448350.95	1991 Apr 4 1047:12	Proton-K/DM-2	-	354-02	Kosmos-2139/2141	Uragan No. 50L	-	-	GIK-5	LC200/39	-	-	19536	-	-
1991-046	2448439.41	1991 Jul 1 2153:00	Proton-K/DM-2	-	373-01	Gorizont	Gorizont No. 34L	-	-	GIK-5	LC200/39	-	-	36240	-	-
1991-064	2448513.24	1991 Sep 13 1751:02	Proton-K/DM-2	-	353-01	Kosmos-2155	Oko-S F4	-	-	GIK-5	LC81/23	-	-	36866	-	-
1991-074	2448553.14	1991 Oct 23 1525:00	Proton-K/DM-2	-	362-02	Gorizont	Gorizont No. 35L	-	-	GIK-5	LC200/39	-	-	38092	-	-
1991-079	2448583.06	1991 Nov 22 1327:00	Proton-K/DM-2	-	353-02	Kosmos-2172	Geizer No. 18L	-	-	GIK-5	LC81/23	-	-	36492	-	-
1991-087	2448609.99	1991 Dec 19 1141:00	Proton-K/DM-2	-	355-01	Raduga	Gran' No. 39L	-	-	GIK-5	LC81/23	-	-	37136	-	-
1992-005	2448651.43	1992 Jan 29 2219:12	Proton-K/DM-2	-	372-02	Kosmos-2177/2179	Uragan No. 68L	-	-	GIK-5	LC81/23	-	-	19561	-	-
1992-017	2448714.58	1992 Apr 2 0150:00	Proton-K/DM-2	-	369-01	Gorizont	Gorizont No. 36L	-	-	GIK-5	LC81/23	-	-	36033	-	-
1992-043	2448818.42	1992 Jul 14 2202:00	Proton-K/DM-2	-	371-02	Gorizont	Gorizont No. 37L	-	-	GIK-5	LC81/23	-	-	37086	-	-
1992-047	2448833.58	1992 Jul 30 0159:01	Proton-K/DM-2	-	376-01	Kosmos-2204/2206	Uragan No. 56L	-	-	GIK-5	LC81/23	-	-	19592	-	-
1992-059	2448876.25	1992 Sep 10 1801:18	Proton-K/DM-2	-	363-01	Kosmos-2209	Oko-S F5	-	-	GIK-5	LC81/23	-	-	36705	-	-
1992-074	2448926.12	1992 Oct 30 1459:00	Proton-K/DM-2	-	372-01	Ekran	Ekran-M No. 15L	-	-	GIK-5	LC81/23	-	-	35844	-	-
1992-082	2448954.05	1992 Nov 27 1310:00	Proton-K/DM-2	-	364-01	Gorizont	Gorizont No. 38L	-	-	GIK-5	LC81/23	-	-	37324	-	-
1992-088	2448974.03	1992 Dec 17 1245:00	Proton-K/DM-2	-	357-02	Kosmos-2224	Oko-1 No. 7121	-	-	GIK-5	LC200/39	-	-	36178	-	-
1993-010	2449036.34	1993 Feb 17 2009:47	Proton-K/DM-2	-	362-01	Kosmos-2234/2236	Uragan No. 73L	-	-	GIK-5	LC81/23	-	-	19621	-	-
1993-013	2449071.60	1993 Mar 25 0228:00	Proton-K/DM-2	-	358-01	Raduga	Gran' No. 42L	-	-	GIK-5	LC81/23	-	-	36928	-	-
1993-F01	2449134.56	1993 May 27 0122:00	Proton-K/DM-2	-	364-02	Gorizont	Gorizont No. 39L	-	-	GIK-5	LC81/23	-	-	150?	-	-
1993-062	2449261.21	1993 Sep 30 1705:59	Proton-K/DM-2	-	359-01	Raduga	Gran' No. 41L	-	-	GIK-5	LC81/23	-	-	36567	-	-
1993-069	2449289.14	1993 Oct 28 1517:00	Proton-K/DM-2	-	368-01	Gorizont	Gorizont No. 40L	-	-	GIK-5	LC81/23	-	-	37022	-	-
1993-072	2449310.08	1993 Nov 18 1354:59	Proton-K/DM-2	-	367-01	Gorizont	Gorizont No. 41L	-	-	GIK-5	LC81/23	-	-	35901	-	-
1994-002	2449372.91	1994 Jan 20 0949:00	Proton-K/DM-2M	DM-2M	358-02	Gals 1	Gals No. 11L	-	-	GIK-5	LC81/23	-	-	36216	-	-
1994-008	2449388.87	1994 Feb 5 0846:00	Proton-K/DM-2	-	375-02	Raduga-1	Globus No. 13L	-	-	GIK-5	LC81/23	-	-	36767	-	-
1994-012	2449401.83	1994 Feb 18 0756:00	Proton-K/DM-2	-	376-02	Raduga	Gran' No. 40L	-	-	GIK-5	LC81/23	-	-	36606	-	-
1994-021	2449453.83	1994 Apr 11 0749:22	Proton-K/DM-2	-	377-01	Kosmos-2275/2277	Uragan No. 58L	-	-	GIK-5	LC81/23	-	-	19267	-	-
1994-030	2449492.58	1994 May 20 0201:00	Proton-K/DM-2	-	357-01	Gorizont	Gorizont No. 42L	-	-	GIK-5	LC81/23	-	-	35987	-	-
1994-038	2449540.50	1994 Jul 6 2358:51	Proton-K/DM-2	-	365-02	Kosmos-2282	Oko-1 No. 7123	-	-	GIK-5	LC81/23	-	-	36207	-	-
1994-050	2449576.14	1994 Aug 11 1527:46	Proton-K/DM-2	-	367-02	Kosmos-2287/2289	Uragan No. 67L	-	-	GIK-5	LC81/23	-	-	19590	-	-
1994-060	2449617.25	1994 Sep 21 1753:00	Proton-K/DM-2	-	381-02	Kosmos-2291	Geizer No. 19L	-	-	GIK-5	LC200/39	-	-	36417	-	-
1994-067	2449639.18	1994 Oct 13 1619:00	Proton-K/DM-2M	DM-2M	377-02	Ekspress 11	Ekspress No. 11L	-	-	GIK-5	LC200/39	-	-	36028	-	-
1994-069	2449657.10	1994 Oct 31 1430:56	Proton-K/DM-2	-	361-02	Elektro	Elektro No. 1L	-	-	GIK-5	LC81/23	-	-	35957	-	-
1994-076	2449676.53	1994 Nov 20 0039:37	Proton-K/DM-2	-	371-01	Kosmos-2294/2296	Uragan No. 62L	-	-	GIK-5	LC200/39	-	-	19508	-	-
1994-082	2449703.00	1994 Dec 16 1200:00	Proton-K/DM-2	-	373-02	Luch	Al'tair No. 13L	-	-	GIK-5	LC81/23	-	-	36106	-	-
1994-087	2449714.98	1994 Dec 28 1131:00	Proton-K/DM-2	-	366-01	Raduga	Gran' No. 43L	-	-	GIK-5	LC81/23	-	-	36475	-	-
1995-009	2449783.89	1995 Mar 7 0923:44	Proton-K/DM-2	-	370-02	Kosmos-2307/2309	Uragan No. 65L	-	-	GIK-5	LC200/39	-	-	19541	-	-
1995-024	2449857.65	1995 May 20 0333:22	Proton-K	-	378-02	Spektr	TsM-O No. 17301	-	-	GIK-5	LC81/23	-	-	401	-	-
1995-037	2449923.16	1995 Jul 24 1552:10	Proton-K/DM-2	-	374-01	Kosmos-2316/2318	Uragan No. 80L	-	-	GIK-5	LC200/39	-	-	19532	-	-
1995-045	2449960.31	1995 Aug 30 1933:00	Proton-K/DM-2	-	369-02	Kosmos-2319	Geizer No. 20L	-	-	GIK-5	LC200/39	-	-	39240	-	-
1995-054	2450002.18	1995 Oct 11 1626:00	Proton-K/DM-2	-	386-01	Luch-1	Gelios No. 12L	-	-	GIK-5	LC81/23	-	-	36303	-	-
1995-063	2450039.10	1995 Nov 17 1425:00	Proton-K/DM-2	-	384-01	Gals 2	Gals No. 12L	-	-	GIK-5	LC200/39	-	-	36683	-	-
1995-068	2450065.76	1995 Dec 14 0610:31	Proton-K/DM-2	-	378-01	Kosmos-2323/2325	Uragan No. 82L	-	-	GIK-5	LC200/39	-	-	19294	-	-
1996-005	2450107.91	1996 Jan 25 0956:00	Proton-K/DM-2	-	374-02	Gorizont	Gorizont No. 43L	-	-	GIK-5	LC200/39	-	-	36810	-	-
1996-010	2450132.85	1996 Feb 19 0819:00	Proton-K/DM-2	-	383-02	Raduga	Gran' No. 44L	-	-	GIK-5	LC200/39	-	-	36597	-	-
1996-021	2450182.46	1996 Apr 8 2309:01	Proton-K/DM-2M	DM3	390-01	Astra 1F	Astra 1F	-	-	GIK-5	LC81/23	-	-	39000	-	-
1996-023	2450196.99	1996 Apr 23 1148:50	Proton-K	-	385-01	Priroda	TsM-I 77KSI No. 17401	-	-	GIK-5	LC81/23	-	-	673	-	-
1996-034	2450228.59	1996 May 25 0205	Proton-K/DM-2	-	379-01	Gorizont	Gorizont No. 44L	-	-	GIK-5	LC200/39	-	-	37118	-	-
1996-053	2450333.23	1996 Sep 6 1737:39	Proton-K/DM-2	DM1	375-01	Inmarsat 3 F2	INMARSAT III F-2	-	-	GIK-5	LC81/23	-	-	36656	-	-
1996-058	2450353.24	1996 Sep 26 1750:53	Proton-K/DM-2M	DM-2M	379-02	Ekspress 12	Ekspress No. 12L	-	-	GIK-5	LC200/39	-	-	36097	-	-
1996-064	2450404.37	1996 Nov 16 2048:53	Proton-K/D-2	-	392-02	Mars-96	M1 No. 520 (Mars-96)	-	-	GIK-5	LC200/39	-	-	180	-	-
1997-026	2450593.21	1997 May 24 1700:00	Proton-K/DM-2M	DM4	380-02	Telstar 5	Telstar 5	-	-	GIK-5	LC81/23	-	-	36064	-	-
1997-028	2450606.21	1997 Jun 6 1656:54	Proton-K/17S40	DM-5	380-01	Kosmos-2344	Arkon 11F664 No. 1	-	-	GIK-5	LC200/39	-	-	3016	-	-
1997-030	2450618.09	1997 Jun 18 1402:45	Proton-K/17S40	DM2	390-02	Iridium	Iridium SV014	-	-	GIK-5	LC81/23	-	-	791	-	-
1997-041	2450675.37	1997 Aug 14 2049:14	Proton-K/DM-2	-	381-01	Kosmos-2345	Oko-S F6	-	-	GIK-5	LC200/39	-	-	37597	-	-
1997-046	2450688.52	1997 Aug 28 0033:30	Proton-K/DM-2M	DM3	387-02	PAS 5	PAS 5	-	-	GIK-5	LC81/23	-	-	36115	-	-
1997-051	2450705.57	1997 Sep 14 0136:54	Proton-K/17S40	DM2	391-01	Iridium	Iridium SV029	-	-	GIK-5	LC81/23	-	-	791	-	-
1997-070	2450765.21	1997 Nov 12 1700:00	Proton-K/DM-2M	DM-2M	382-01	Kupon	K95K	-	-	GIK-5	LC200/39	-	-	38085	-	-
1997-076	2450785.47	1997 Dec 2 2310:37	Proton-K/DM-2M	DM3	382-02	Astra 1G	Astra 1G	-	-	GIK-5	LC81/23	-	-	36668	-	-
1997-086	2450807.47	1997 Dec 24 2319:00	Proton-K/DM-2M	DM3	394-01	Asiasat 3	Asiasat 3	-	-	GIK-5	LC81/23	-	-	150000	-	-
1998-021	2450910.59	1998 Apr 7 0213:03	Proton-K/17S40	DM2	391-02	Iridium	Iridium SV062	-	-	GIK-5	LC81/23	-	-	789	-	-
1998-025	2450932.69	1998 Apr 29 0436:54	Proton-K/DM-2	-	384-02	Kosmos-2350	Oko-1 No. 7122	-	-	GIK-5	LC200/39	-	-	36179	-	-
1998-028	2450941.49	1998 May 7 2345:00	Proton-K/DM-2M	DM3	393-02	Echostar 4	Echostar 4	-	-	GIK-5	LC81/23	-	-	36247	-	-
1998-050	2451055.52	1998 Aug 30 0031:00	Proton-K/DM-2M	DM3	383-01	Astra 2A	Astra 2A	-	-	GIK-5	LC81/23	-	-	36261	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1998-065	2451121.72	1998 Nov 4 0512:00	Proton-K/DM-2M	DM3	395-02	PAS 8	PAS 8	-	-	GIK-5	LC81/23	-	-	38608	-	-
1998-067	2451137.78	1998 Nov 20 0640:00	Proton-K	-	395-01	Zarya	77KM No. 17501	ISS 1A	-	GIK-5	LC81/23	-	-	430	-	-
1998-077	2451178.27	1998 Dec 30 1835:46	Proton-K/DM-2	-	385-02	Kosmos-2362/2364	Uragan No. 86L	-	-	GIK-5	LC200/39	-	-	19582	-	-
1999-005	2451224.72	1999 Feb 15 0512:00	Proton-K/DM-2M	DM3	396-01	Telstar 6	Telstar 6	-	-	GIK-5	LC81/23	-	-	36786	-	-
1999-010	2451237.67	1999 Feb 28 0400:00	Proton-K/DM-2	-	387-01	Raduga-1	Globus No. 15L	-	-	GIK-5	LC81/23	-	-	36807	-	-
1999-013	2451258.51	1999 Mar 21 0009:30	Proton-K/DM-2M	DM3	388-01	Asiasat 3S	Asiasat 3S	-	-	GIK-5	LC81/23	-	-	36304	-	-
1999-027	2451319.44	1999 May 20 2230:00	Proton-K/DM-2M	DM3	396-02	Nimiq	Telesat DTH-1	-	-	GIK-5	LC81/23	-	-	36326	-	-
1999-033	2451347.58	1999 Jun 18 0149:30	Proton-K/DM-2M	DM3	397-02	Astra 1H	Astra 1H	-	-	GIK-5	LC81/23	-	-	39375	-	-
1999-F02	2451365.06	1999 Jul 5 1332:00	Proton-K/Briz-M	-	389-01/88501	Raduga	Gran' No. 45	-	-	GIK-5	LC81/24	-	-	30	-	-
1999-047	2451428.19	1999 Sep 6 1636:00	Proton-K/DM-2M	DM-2M	388-02	Yamal-100 No. 1/2	Yamal-100 No. 2	-	-	GIK-5	LC81/23	-	-	39029	-	-
1999-053	2451448.44	1999 Sep 26 2230:00	Proton-K/DM-2M	DM3	398-02	LMI-1	LMI 1	-	-	GIK-5	LC81/23	-	-	36101	-	-
1999-F03	2451479.18	1999 Oct 27 1616:00	Proton-K/DM-2	-	386-02	Ekspress A No. 1	Ekspress-A No. R 001	-	-	GIK-5	LC200/39	-	-	120?	-	-
2000-011	2451586.88	2000 Feb 12 0910:54	Proton-K/DM-2M	DM3	399-02	Garuda 1	Garuda 1	-	-	GIK-5	LC81/23	-	-	36957	-	-
2000-013	2451615.67	2000 Mar 12 0407:00	Proton-K/DM-2M	DM-2M	399-01	Ekspress A No. 2	Ekspress A No. 2	-	-	GIK-5	LC200/39	-	-	36410	-	-
2000-019	2451652.38	2000 Apr 17 2106:00	Proton-K/DM-2M	DM-2M	397-01	Sesat	SESAT	-	-	GIK-5	LC200/39	-	-	37673	-	-
2000-029	2451701.62	2000 Jun 6 0259:00	Proton-K/Briz-M	-	392-01/88502	Gorizont No. 45	Gorizont No. 45L	-	-	GIK-5	LC81/24	-	-	38046	-	-
2000-031	2451719.52	2000 Jun 24 0028:00	Proton-K/DM-2M	DM-2M	394-02	Ekspress A No. 3	Ekspress-A No. 3	-	-	GIK-5	LC200/39	-	-	36255	-	-
2000-035	2451726.42	2000 Jun 30 2208:47	Proton-K/DM-2M	DM3	400-01	Sirius CD Radio 1	Sirius CD Radio 1	-	-	GIK-5	LC81/24	-	-	51626	-	-
2000-036	2451730.49	2000 Jul 4 2344:00	Proton-K/DM-2	-	389-02	Kosmos-2371	Geizer No. 22L	-	-	GIK-5	LC200/39	-	-	35944	-	-
2000-037	2451737.71	2000 Jul 12 0456:36	Proton-K	-	398-01	Zvezda	77KSM No. 128-01	ISS 1R	-	GIK-5	LC81/23	-	-	419	-	-
2000-049	2451785.34	2000 Aug 28 2008:00	Proton-K/DM-2	-	401-02	Raduga-1	Globus No. 16L	-	-	GIK-5	LC81/24	-	-	36583	-	-
2000-051	2451792.91	2000 Sep 5 0943:58	Proton-K/DM-2M	DM3	400-02	Sirius CD Radio 2	Sirius CD Radio 2	-	-	GIK-5	LC81/23	-	-	51654	-	-
2000-059	2451819.42	2000 Oct 1 2200:00	Proton-K/DM-2M	DM3	401-01	GE-1A	GE-1A	-	-	GIK-5	LC81/23	-	-	35913	-	-
2000-063	2451831.09	2000 Oct 13 1412:45	Proton-K/DM-2	-	393-01	Kosmos-2374/2376	Uragan No. 83L	-	-	GIK-5	LC81/24	-	-	19333	-	-
2000-067	2451839.42	2000 Oct 21 2200:00	Proton-K/DM-2M	DM3	402-01	GE-6	GE 6	-	-	GIK-5	LC81/23	-	-	36020	-	-
2000-077	2451879.33	2000 Nov 30 1959:47	Proton-K/DM-2M	DM3	402-02	Sirius CD Radio 3	Sirius CD Radio 3	-	-	GIK-5	LC81/23	-	-	47696	-	-
2001-014	2452006.66	2001 Apr 7 0347:00	Proton-M/Briz-M	-	535-01/88503	Ekran-M No. 18	Ekran-M No. 18L	-	-	GIK-5	LC81/24	-	-	37881	-	-
2001-019	2452044.55	2001 May 15 0111:30	Proton-K/DM-2M	DM3	403-01	PAS 10	PAS 10	-	-	GIK-5	LC81/23	-	-	36086	-	-
2001-025	2452076.58	2001 Jun 16 0149:00	Proton-K/DM-2M	DM3	403-02	Astra 2C	Astra 2C	-	-	GIK-5	LC81/23	-	-	36076	-	-
2001-037	2452146.36	2001 Aug 24 2034:50	Proton-K/DM-2	-	404-01	Kosmos-2379	Oko-1 No. 7124	-	-	GIK-5	LC81/24	-	-	36190	-	-
2001-045	2452189.20	2001 Oct 6 1645:00	Proton-K/DM-2	-	405-01	Raduga-1	Globus No. 14L	-	-	GIK-5	LC81/24	-	-	37371	-	-
2001-053	2452245.25	2001 Dec 1 1804:44	Proton-K/DM-2	-	405-02	Kosmos-2380/2382	Uragan-M No. 711	-	-	GIK-5	LC81/24	-	-	19453	-	-
2002-016	2452364.23	2002 Mar 30 1725:00	Proton-K/DM-2M	DM3	406-01	Intelsat 903	INTELSAT 903	-	-	GIK-5	LC81/23	-	-	37406	-	-
2002-023	2452402.21	2002 May 7 1700:00	Proton-K/DM-2M	DM3	404-02	DirecTV-5	DirecTV-5	-	-	GIK-5	LC81/24	-	-	36047	-	-
2002-029	2452435.55	2002 Jun 10 0114:00	Proton-K/DM-2M	DM-2M	407-01	Ekspress A No. 4	Ekspress-A No. 4	-	-	GIK-5	LC200/39	-	-	36306	-	-
2002-037	2452481.13	2002 Jul 25 1513:21	Proton-K/17S40	DM-5	408-01	Kosmos-2392	Arkon 11F664 No. 2?	-	-	GIK-5	LC81/24	-	-	2889	-	-
2002-039	2452508.72	2002 Aug 22 0515:00	Proton-K/DM-2M	DM3	406-02	Echostar VIII	Echostar 8	-	-	GIK-5	LC81/23	-	-	36502	-	-
2002-048	2452564.70	2002 Oct 17 0441:00	Proton-K/17S40	DM2	409-01	Integral	Integral	-	-	GIK-5	LC200/39	-	-	150000	-	-
2002-053	2452604.46	2002 Nov 25 2304:23	Proton-K/DM-2M	DM3	408-02	Astra 1K	Astra 1K	-	-	GIK-5	LC81/23	-	-	352	-	-
2002-060	2452633.82	2002 Dec 25 0737:58	Proton-K/DM-2	-	409-02	Kosmos-2394/2396	Uragan No. 791	-	-	GIK-5	LC81/23	-	-	19335	-	-
2002-062	2452638.47	2002 Dec 29 2316:40	Proton-M/Briz-M	-	535-02/88504	Nimiq 2	Nimiq 2	-	-	GIK-5	LC81/24	-	-	36198	-	-
2003-015	2452753.68	2003 Apr 24 0423:17	Proton-K/DM-2	-	410-02	Kosmos-2397	Oko-1 No. 7126	-	-	GIK-5	LC81/24	-	-	36094	-	-
2003-024	2452797.43	2003 Jun 6 2215:15	Proton-K/Briz-M	-	410-01/88505	AMC-9	Americom 9	-	-	GIK-5	LC200/39	-	-	36451	-	-
2003-053	2452967.77	2003 Nov 24 0622:00	Proton-K/DM-2M	DM-2M	407-02	Yamal-200	Yamal-201/202	-	-	GIK-5	LC81/23	-	-	36898	-	-
2003-056	2452984.24	2003 Dec 10 1742:12	Proton-K/Briz-M	-	410-03/88506	Kosmos-2402/2404	Uragan 794	-	-	GIK-5	LC81/24	-	-	19360	-	-
2003-060	2453002.46	2003 Dec 28 2300:00	Proton-K/DM-2M	DM-2M	410-04	Ekspress AM-22	Sesat-2	-	-	GIK-5	LC200/39	-	-	36090	-	-
2004-008	2453080.46	2004 Mar 15 2306:00	Proton-M/Briz-M	-	535-03/88507	Eutelsat W3A	Eutelsat W3A	-	-	GIK-5	LC81/24	-	-	36897	-	-
2004-010	2453091.65	2004 Mar 27 0330:00	Proton-K/DM-2	-	410-05	Raduga-1	Globus No. 17L	-	-	GIK-5	LC81/23	-	-	37933	-	-
2004-015	2453122.36	2004 Apr 26 2037:00	Proton-K/DM-2M	DM-2M	410-06	Ekspress AM-11	Ekspress AM-11	-	-	GIK-5	LC200/39	-	-	36177	-	-
2004-022	2453173.44	2004 Jun 16 2227:00	Proton-M/Briz-M	-	535-06/88509	Intelsat 10-02	INTELSAT 10-02	-	-	GIK-5	LC200/39	-	-	36024	-	-
2004-031	2453222.44	2004 Aug 4 2232:00	Proton-M/Briz-M	-	535-07/88508	Amazonas	Amazonas	-	-	GIK-5	LC200/39	-	-	37030	-	-
2004-041	2453293.39	2004 Oct 14 2123:00	Proton-M/Briz-M	-	535-08/88510	AMC-15	AMC-15	-	-	GIK-5	LC200/39	-	-	36036	-	-
2004-043	2453308.42	2004 Oct 29 2211:00	Proton-K/DM-2M	DM-2M	410-08	Ekspress AM-1	Ekspress AM-1	-	-	GIK-5	LC200/39	-	-	36502	-	-
2004-053	2453366.08	2004 Dec 26 1353:31	Proton-K/DM-2	-	410-09	Kosmos-2411/2413	Uragan No. 796	-	-	GIK-5	LC200/39	-	-	19266	-	-
2005-003	2453404.60	2005 Feb 3 0227:32	Proton-M/Briz-M	-	535-09/88511	AMC-12	Americom 12	-	-	GIK-5	LC81/24	-	-	35954	-	-
2005-010	2453459.40	2005 Mar 29 2131:00	Proton-K/DM-2M	DM-2M	410-10	Ekspress AM-2	Ekspress AM-2	-	-	GIK-5	LC200/39	-	-	38117	-	-
2005-019	2453513.25	2005 May 22 1759:08	Proton-M/Briz-M	-	535-10/88512	DirecTV-8	DirecTV-8	-	-	GIK-5	LC200/39	-	-	36176	-	-
2005-023	2453546.32	2005 Jun 24 1941:00	Proton-K/DM-2	-	410-07	Ekspress AM-3	Ekspress AM-3	-	-	GIK-5	LC200/39	-	-	36165	-	-
2005-036	2453622.41	2005 Sep 8 2153:40	Proton-M/Briz-M	-	535-12/88513	Anik F1R	Anik F1R	-	-	GIK-5	LC200/39	-	-	35816	-	-
2005-050	2453729.71	2005 Dec 25 0507:10	Proton-K/DM-2	-	410-11	Kosmos-2417/2419	Uragan No. 798	-	-	GIK-5	LC81/24	-	-	19394	-	-
2005-052	2453733.60	2005 Dec 29 0228:40	Proton-M/Briz-M	-	535-13/88514	AMC-23	Americom 23	-	-	GIK-5	LC200/39	-	-	35942	-	-
2006-006	2453795.34	2006 Feb 28 2010:00	Proton-M/Briz-M	-	535-11/88515	Arabsat 4A	Arabsat 4A	-	-	GIK-5	LC200/39	-	-	14956	-	-
2006-022	2453904.45	2006 Jun 17 2244:05	Proton-K/DM-2M	DM3	410-12	Kazsat	Kazsat 78KS	-	-	GIK-5	LC200/39	-	-	36158	-	-
2006-032	2453952.41	2006 Aug 4 2148:00	Proton-M/Briz-M	-	535-14/88516	Hot Bird 8	Hot Bird 8	-	-	GIK-5	LC200/39	-	-	35999	-	-
2006-051	2454048.33	2006 Nov 8 2001:00	Proton-M/Briz-M	-	535-15/88517	Arabsat 4A	Arabsat 4B	-	-	GIK-5	LC200/39	-	-	35854	-	-
2006-056	2454081.48	2006 Dec 11 2328:43	Proton-M/Briz-M	-	535-21/88518	Measat 3	Measat	-	-	GIK-5	LC200/39	-	-	35952	-	-
2006-062	2454095.35	2006 Dec 25 2018:12	Proton-K/DM-2	-	410-15	Kosmos-2424/2426	Uragan-M No. 715	-	-	GIK-5	LC81/24	-	-	19386	-	-
2007-009	2454200.45	2007 Apr 9 2254:00	Proton-M/Briz-M	-	535-16/88521	Anik F3	Anik F3	-	-	GIK-5	LC200/39	-	-	35934	-	-
2007-032	2454288.55	2007 Jul 7 0116:00	Proton-M/Briz-M	-	535-20/88520	DirecTV-10	DirecTV 10	-	-	GIK-5	LC200/39	-	-	37245	-	-
2007-F03	2454349.45	2007 Sep 5 2243:10	Proton-M/Briz-M	-	535-22/88522	JCSAT 11	JCSAT 11	-	-	GIK-5	LC200/39	-	-	74	-	-
2007-052	2454399.82	2007 Oct 26 0735:24	Proton-K/DM-2	-	410-17	Kosmos-2431/2433	Uragan-M No. 718	-	-	GIK-5	LC81/24	-	-	19381	-	-
2007-057	2454422.44	2007 Nov 17 2239:47	Proton-M/Briz-M	-	535-23/88523	Sirius 4	Sirius 4	-	-	GIK-5	LC200/39	-	-	35895	-	-
2007-058	2454443.51	2007 Dec 9 0016:00	Proton-M/Briz-M	-	535-26/88526	Raduga-1M (Globus)	Globus-1M No. 11L	-	-	GIK-5	LC81/24	-	-	36063	-	-
2007-065	2454460.31	2007 Dec 25 1932:34	Proton-M/DM-2	-	535-28	Kosmos-2434/2436	Uragan-M No. 721	-	-	GIK-5	LC81/24	-	-	19377	-	-
2008-003	2454493.51	2008 Jan 28 0018:00	Proton-M/Briz-M	-	535-27/88530	Ekspress AM-33	Ekspress AM-33	-	-	GIK-5	LC200/39	-	-	35891	-	-
2008-006	2454507.98	2008 Feb 11 1134:00	Proton-M/Briz-M	-	535-24/88524	Thor 5	Thor 5	-	-	GIK-5	LC200/39	-	-	38461	-	-
2008-011	2454540.47	2008 Mar 14 2318:55	Proton-M/Briz-M	-	535-25/88525	AMC 14	Americom 14	-	-	GIK-5	LC200/39	-	-	36818	-	-
2008-033	2454644.50	2008 Jun 26 2359:43	Proton-K/DM-2	-	410-14/111L	Kosmos-2440	Oko-1 No. 7127	-	-	GIK-5	LC81/24	-	-	36583	-	-
2008-039	2454697.45	2008 Aug 18 2243:00	Proton-M/Briz-M	-	935-02/99502	Inmarsat 4 F3	INMARSAT 4 F3	-	-	GIK-5	LC200/39	-	-	36053	-	-
2008-044	2454729.41	2008 Sep 19 2148:00	Proton-M/Briz-M	-	535-29/88528	Nimiq 4	Nimiq 4	-	-	GIK-5	LC200/39	-	-	36203	-	-
2008-046	2454734.87	2008 Sep 25 0849:37	Proton-M/DM-2	-	535-31/112L	Kosmos-2442/2444	Uragan-M No. 724	-	-	GIK-5	LC81/23	-	-	19346	-	-
2008-057	2454776.36	2008 Nov 5 2044:20	Proton-M/Briz-M	-	535-33/88531	Astra 1M	Astra 1M	-	-	GIK-5	LC200/39	-	-	36185	-	-
2008-063	2454811.07	2008 Dec 10 1343:00	Proton-M/Briz-M	-	935-03/99503	Ciel 2	Ciel 2	-	-	GIK-5	LC200/39	-	-	35813	-	-
2008-067	2454825.95	2008 Dec 25 1043:42	Proton-M/DM-2	-	535-34/114L	Kosmos-2447/2449	Uragan-M No. 727	Glonass Blok 39	-	GIK-5	LC81/24	-	-	19238	-	-
2009-007	2454873.50	2009 Feb 11 0003:00	Proton-M/Briz-M	-	935-01/99501	Ekspress AM44/MD1	Ekspress AM-44	-	-	GIK-5	LC200/39	-	-	37530	-	-
2009-010	2454890.67	2009 Feb 28 0410:00	Proton-K/DM-2	-	410-16/107L	Raduga-1	Globus No. 18L	-	-	GIK-5	LC81/24	-	-	37843	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-016	2454925.18	2009 Apr 3 1624:00	Proton-M/Briz-M	-	935-04/99504	Eutelsat W2A	Eutelsat W2A	-	-	GIK-5	LC200/39	-	-	36100	-	-
2009-027	2454967.54	2009 May 16 0057:38	Proton-M/Briz-M	-	935-05/99505	Protostar 2	Indostar II/Protostar II	-	-	GIK-5	LC200/39	-	-	35886	-	-
2009-034	2455013.30	2009 Jun 30 1910:00	Proton-M/Briz-M	-	935-06/99506	Sirius FM5	Sirius CD Radio 5	-	-	GIK-5	LC200/39	-	-	35975	-	-
2009-042	2455055.32	2009 Aug 11 1947:33	Proton-M/Briz-M	-	935-07/99507	Asiasat 5	Asiasat 5	-	-	GIK-5	LC200/39	-	-	35869	-	-
2009-050	2455092.31	2009 Sep 17 1919:19	Proton-M/Briz-M	-	935-08/99508	Nimiq 5	Nimiq 5	-	-	GIK-5	LC200/39	-	-	35855	-	-
2009-065	2455160.10	2009 Nov 24 1419:10	Proton-M/Briz-M	-	935-09/99509	Eutelsat W7	Eutelsat W7	-	-	GIK-5	LC200/39	-	-	35924	-	-
2009-070	2455179.94	2009 Dec 14 1038:27	Proton-M/DM-2	-	535-38/115L	Kosmos-2456/2458	Uragan-M No. 730	Glonass Blok 41	-	GIK-5	LC81/24	-	-	19420	-	-
2009-075	2455194.52	2009 Dec 29 0022:00	Proton-M/Briz-M	-	935-10/99510	DirecTV 12	DirecTV-12	-	-	GIK-5	LC200/39	-	-	41078	-	-
2010-002	2455224.51	2010 Jan 28 0018:00	Proton-M/Briz-M	-	535-35/88527	Raduga-1M	Globus-1M No. 12L?	-	-	GIK-5	LC81/24	-	-	36934	-	-
2010-006	2455239.53	2010 Feb 12 0039:40	Proton-M/Briz-M	-	535-32/99511	Intelsat IS-16	IS-16	-	-	GIK-5	LC200/39	-	-	42244	-	-
2010-007	2455257.39	2010 Mar 1 2119:44	Proton-M/DM-2	-	535-40/116L	Kosmos-2459/2461	Uragan-M No. 731	Glonass Blok 40	-	GIK-5	LC81/24	-	-	19400	-	-
2010-010	2455276.27	2010 Mar 20 1826:57	Proton-M/Briz-M	-	935-14/99514	Echostar XIV	Echostar 14	-	-	GIK-5	LC200/39	-	-	35838	-	-
2010-016	2455310.97	2010 Apr 24 1119:00	Proton-M/Briz-M	-	935-11/99512	SES-1	SES-1	-	-	GIK-5	LC200/39	-	-	37420	-	-
2010-025	2455351.42	2010 Jun 3 2200:08	Proton-M/Briz-M	-	935-12/99513	Arabsat 5B	Arabsat 5B	-	-	GIK-5	LC200/39	-	-	35917	-	-
2010-034	2455388.28	2010 Jul 10 1840:36	Proton-M/Briz-M	-	935-15/99515	Echostar XV	-	-	-	GIK-5	LC200/39	-	-	35901	-	-
2010-041	2455441.54	2010 Sep 2 0053:50	Proton-M/DM-2	-	535-30/118L	Kosmos-2464/2466	Uragan-M No. 736	Glonass Blok 42	-	GIK-5	LC81/24	-	-	19496	-	-
2010-053	2455484.29	2010 Oct 14 1853:21	Proton-M/Briz-M	-	935-16/99517	Sirius XM-5	-	-	-	GIK-5	LC81/24	-	-	35932	-	-
2010-061	2455515.23	2010 Nov 14 1729:20	Proton-M/Briz-M	-	935-13/99516	SkyTerra 1	MSV 1	-	-	GIK-5	LC200/39	-	-	35838	-	-
2010-F03	2455535.93	2010 Dec 5 1025:19	Proton-M/DM-3	-	535-37/01L	Glonass-M	Uragan-M No. 739	Glonass Blok 43	-	GIK-5	LC81/24	-	-	169?	-	-
2010-069	2455557.41	2010 Dec 26 2151:00	Proton-M/Briz-M	-	935-17/99518	KA-Sat	KA-Sat	-	-	GIK-5	LC200/39	-	-	35855	-	-
2011-021	2455702.30	2011 May 20 1915:19	Proton-M/Briz-M	-	935-19/99520	Telstar 14R	Telstar 14R	-	-	GIK-5	LC200/39	-	-	35993	-	-
2011-035	2455758.47	2011 Jul 15 2316:10	Proton-M/Briz-M	-	935-18/99519	SES-3/Kazsat-2	SES-3	-	-	GIK-5	LC200/39	-	-	36032	-	-
2011-045	2455791.39	2011 Aug 17 2125:01	Proton-M/Briz-M	-	935-21/99522	Ekspress AM-4	Ekspress AM-4	-	-	GIK-5	LC200/39	-	-	20416	-	-
2011-048	2455825.45	2011 Sep 20 2247:00	Proton-M/Briz-M	-	535-42/88529	Kosmos-2473	Garpun No. 1	-	-	GIK-5	LC81/24	-	-	36018	-	-
2011-054	2455834.27	2011 Sep 29 1832:00	Proton-M/Briz-M	-	935-22/99524	QuetzSat-1	QuetzSat-1	-	-	GIK-5	LC200/39	-	-	35837	-	-
2011-059	2455854.28	2011 Oct 19 1848:58	Proton-M/Briz-M	-	935-20/99521	ViaSat-1	ViaSat-1	-	-	GIK-5	LC200/39	-	-	36285	-	-
2011-064	2455870.04	2011 Nov 4 1251:41	Proton-M/Briz-M	-	535-39/99523	Kosmos-2475/2477	Uragan-M No. 743	Glonass Blok 44	-	GIK-5	LC81/24	-	-	19325	-	-
2011-069	2455891.30	2011 Nov 25 1910:34	Proton-M/Briz-M	-	935-25/99527	Asiasat-7	Asiasat 7	-	-	GIK-5	LC200/39	-	-	35994	-	-
2011-074	2455906.97	2011 Dec 11 1117:00	Proton-M/Briz-M	-	935-23/99525	Luch-5A/Amos-5	Amos 5	-	-	GIK-5	LC81/24	-	-	42492	-	-
2012-007	2455972.32	2012 Feb 14 1936:37	Proton-M/Briz-M	-	935-24/99526	SES-4	SES-4	-	-	GIK-5	LC200/39	-	-	35822	-	-
2012-011	2456012.01	2012 Mar 25 1210:32	Proton-M/Briz-M	-	935-28/99537	Intelsat IS-22	Intelsat IS-22	-	-	GIK-5	LC200/39	-	-	64857	-	-
2012-012	2456016.74	2012 Mar 30 0549:32	Proton-K/DM-2	-	410-18/117L	Kosmos-2479	Oko-1 No. 7128	-	-	GIK-5	LC81/24	-	-	36059	-	-
2012-016	2456041.43	2012 Apr 23 2218:13	Proton-M/Briz-M	-	935-27/99529	Yahsat-1B	Yahsat 1B	-	-	GIK-5	LC200/39	-	-	35849	-	-
2012-026	2456065.30	2012 May 17 1912:14	Proton-M/Briz-M	-	935-29/99530	Nimiq 6	Nimiq 6	-	-	GIK-5	LC81/24	-	-	35864	-	-
2012-036	2456118.28	2012 Jul 9 1838:30	Proton-M/Briz-M	-	935-30/99531	SES-5	Astra 4B ?	-	-	GIK-5	LC81/24	-	-	35842	-	-
2012-044	2456146.31	2012 Aug 6 1931:00	Proton-M/Briz-M	-	935-31/99532	Telkom-3/EkspressMD2	Telkom-3	-	-	GIK-5	LC81/24	-	-	5038	-	-
2012-057	2456214.86	2012 Oct 14 0837:00	Proton-M/Briz-M	-	935-26/99534	Intelsat IS-23	IS-23	-	-	GIK-5	LC81/24	-	-	42130	-	-
2012-061	2456234.38	2012 Nov 2 2104:00	Proton-M/Briz-M	-	935-32/99533	Luch-5B/Yamal-300K	Luch-5B	-	-	GIK-5	LC81/24	-	-	36096	-	-
2012-065	2456252.27	2012 Nov 20 1831:00	Proton-M/Briz-M	-	935-33/99528	Echostar 16	Echostar 16	-	-	GIK-5	LC200/39	-	-	35810	-	-
2012-070	2456270.05	2012 Dec 8 1313:43	Proton-M/Briz-M	-	935-34/99535	Yamal 402	Yamal 402	-	-	GIK-5	LC200/39	-	-	36245	-	-
2013-012	2456378.30	2013 Mar 26 1906:48	Proton-M/Briz-M	-	935-36/99536	Satmex 8	Satmex 8	-	-	GIK-5	LC200/39	-	-	37004	-	-
2013-014	2456398.27	2013 Apr 15 1836:00	Proton-M/Briz-M	-	935-37/99538	Anik G-1	Anik G1	-	-	GIK-5	LC200/39	-	-	35836	-	-
2013-022	2456427.17	2013 May 14 1602:00	Proton-M/Briz-M	-	935-38/99539	Eutelsat 3D	Eutelsat 3D	-	-	GIK-5	LC200/39	-	-	35872	-	-
2013-026	2456446.89	2013 Jun 3 0918:31	Proton-M/Briz-M	-	935-40/99541	SES-6	SES-6	-	-	GIK-5	LC200/39	-	-	64926	-	-
2013-F02	2456475.61	2013 Jul 2 0238:22	Proton-M/DM-3	-	535-43/2L	Glonass-M	Glonass-M 48,49,50	-	-	GIK-5	LC81/24	-	-	1	-	-
2013-056	2456565.40	2013 Sep 29 2138:10	Proton-M/Briz-M	-	935-39/99540	Astra 2E	Astra 2E	-	-	GIK-5	LC200/39	-	-	35957	-	-
2013-058	2456591.26	2013 Oct 25 1808:54	Proton-M/Briz-M	-	935-35/99542	Sirius FM6	Sirius FM6	-	-	GIK-5	LC200/39	-	-	35822	-	-
2013-062	2456608.49	2013 Nov 11 2346:00	Proton-M/Briz-M	-	535-41/88532	Raduga-1M	Globus-1M No. 13L	-	-	GIK-5	LC81/24	-	-	36211	-	-
2013-073	2456635.01	2013 Dec 8 1212:00	Proton-M/Briz-M	-	935-44/99546	Inmarsat 5F1	Inmarsat 5F1	-	-	GIK-5	LC200/39	-	-	65022	-	-
2013-077	2456652.95	2013 Dec 26 1049:56	Proton-M/Briz-M	-	935-41/99543	Ekspress AM-5	Ekspress AM-5	-	-	GIK-5	LC81/24	-	-	41512	-	-
2014-007	2456703.38	2014 Feb 14 2109:03	Proton-M/Briz-M	-	935-43/99544	Turksat 4A	Turksat 4A	-	-	GIK-5	LC81/24	-	-	35892	-	-
2014-010	2456732.46	2014 Mar 15 2308:00	Proton-M/Briz-M	-	935-42/99545	Ekspress AT1/AT2	Ekspress AT1/Exp. AT2	-	-	GIK-5	LC81/24	-	-	41979	-	-
2014-023	2456775.68	2014 Apr 28 0425:00	Proton-M/Briz-M	-	935-46/99548	Luch-5V/Kazsat-3	Luch-5V/Kazsat-3	-	-	GIK-5	LC81/24	-	-	40893	-	-
2014-F01	2456793.40	2014 May 15 2142:00	Proton-M/Briz-M	-	935-45/99547	Ekspress AM-4R	Ekspress AM-4R	-	-	GIK-5	LC200/39	-	-	160?	-	-
2014-058	2456928.35	2014 Sep 27 2023:00	Proton-M/Briz-M	-	935-47/99549	Luch	Olymp-K	-	-	GIK-5	LC81/24	-	-	41187	-	-
2014-064	2456952.13	2014 Oct 21 1509:32	Proton-M/Briz-M	-	935-48/99550	Ekspress AM-6	Ekspress AM-6	-	-	GIK-5	LC81/24	-	-	39881	-	-
2014-082	2457006.51	2014 Dec 15 0016:00	Proton-M/Briz-M	-	935-50/99551	Yamal-401	Yamal-401	-	-	GIK-5	LC81/24	-	-	35821	-	-
2014-089	2457019.40	2014 Dec 27 2137:49	Proton-M/Briz-M	-	935-49/99552	Astra 2G	Astra 2G	-	-	GIK-5	LC200/39	-	-	35865	-	-
2015-005	2457055.02	2015 Feb 1 1231:00	Proton-M/Briz-M	-	935-51/99554	Inmarsat 5F2	Inmarsat 5F2	-	-	GIK-5	LC200/39	-	-	65019	-	-
2015-012	2457100.42	2015 Mar 18 2205:00	Proton-M/Briz-M	-	935-52/99553	Ekspress AM-7	Ekspress AM-7	-	-	GIK-5	LC200/39	-	-	36939	-	-
2015-F01	2457158.74	2015 May 16 0547:39	Proton-M/Briz-M	-	935-54/99555	Mexsat-1	Mexsat-1	-	-	GIK-5	LC200/39	-	-	160?	-	-
2015-042	2457262.99	2015 Aug 28 1144:00	Proton-M/Briz-M	-	935-55/99556	Inmarsat 5F3	Inmarsat 5F3	-	-	GIK-5	LC200/39	-	-	64901	-	-
2015-048	2457280.29	2015 Sep 14 1900:00	Proton-M/DM-3	-	935-53/5L	Ekspress AM-8	Ekspress AM-8	-	-	GIK-5	LC81/24	-	-	36672	-	-
2015-060	2457312.36	2015 Oct 16 2040:11	Proton-M/Briz-M	-	935-56/99557	Turksat 4B	Turksat 4B	-	-	GIK-5	LC200/39	-	-	35814	-	-
2015-075	2457369.51	2015 Dec 13 0019:00	Proton-M/Briz-M	-	535-44/88533	Kosmos-2513	Garpun No. 12L	-	-	GIK-5	LC81/24	-	-	35946	-	-
2015-082	2457381.40	2015 Dec 24 2131:19	Proton-M/Briz-M	-	935-57/99559	Ekspress-AMU1	Ekspress-AMU1	-	-	GIK-5	LC200/39	-	-	36192	-	-
2016-005	2457417.43	2016 Jan 29 2220:09	Proton-M/Briz-M	-	935-58/99558	Eutelsat 9B	Eutelsat 9B	-	-	GIK-5	LC200/39	-	-	35813	-	-
2016-017	2457461.90	2016 Mar 14 0931:42	Proton-M/Briz-M	-	935-60/99560	ExoMars TGO/EDM	ExoMars TGO/EDM	-	-	GIK-5	LC200/39	-	-	150000	-	-
2016-035	2457548.80	2016 Jun 9 0710:00	Proton-M/Briz-M	-	937-01/99570	Intelsat IS-31	Intelsat IS-31/DLA-2	-	-	GIK-5	LC81/24	-	-	65060	-	-
2017-032	2457912.66	2017 Jun 8 0345:47	Proton-M/Briz-M	-	935-61/99571	Echostar 21	Echostar 21	-	-	GIK-5	LC81/24	-	-	35911	-	-
2017-046	2457982.42	2017 Aug 16 2207:00	Proton-M/Briz-M	-	935-59/99562	Kosmos-2520	Blagovest 11L	-	-	GIK-5	LC81/24	-	-	42001	-	-
2017-053	2458008.31	2017 Sep 11 1923:41	Proton-M/Briz-M	-	935-65/99561	Amazonas 5	Amazonas 5	-	-	GIK-5	LC200/39	-	-	37151	-	-
2017-057	2458025.29	2017 Sep 28 1852:16	Proton-M/Briz-M	-	937-02/99572	Asiasat 9	Asiasat 9	-	-	GIK-5	LC200/39	-	-	36006	-	-
2018-037	2458227.42	2018 Apr 18 2212:00	Proton-M/Briz-M	-	935-62/99563	Kosmos-2526	Blagovest 12L	-	-	GIK-5	LC81/24	-	-	41936	-	-
2018-107	2458473.51	2018 Dec 21 0020:00	Proton-M/Briz-M	-	935-63/99565	Kosmos-2533	Blagovest 13L	-	-	GIK-5	LC81/24	-	-	42007	-	-
2019-031	2458634.24	2019 May 30 1742:00	Proton-M/Briz-M	-	935-69/99564	Yamal-601	Yamal-601	-	-	GIK-5	LC200/39	-	-	35807	-	-
2019-040	2458678.02	2019 Jul 13 1230:57	Proton-M/DM-3	-	535-47/4L	Spektr-RG	Spektr-RG	-	-	GIK-5	LC81/24	-	-	150000	-	-
2019-048	2458701.41	2019 Aug 5 2156:00	Proton-M/Briz-M	-	935-64/99566	Kosmos-2539	Blagovest 14L	-	-	GIK-5	LC81/24	-	-	42115	-	-
2019-067	2458765.93	2019 Oct 9 1017:56	Proton-M/Briz-M	-	937-04/99573	MEV-1/Eutelsat-5WB	MEV-1/Eutelsat-5WB	-	-	GIK-5	LC200/39	-	-	65825	-	-
2019-095	2458842.00	2019 Dec 24 1203:02	Proton-M/DM-3	-	935-66/3L	Elektro-L No. 3	Elektro-L No. 3	-	-	GIK-5	LC81/24	-	-	36392	-	-
2020-053	2459061.39	2020 Jul 30 2125:19	Proton-M/Briz-M	-	935-67/99568	Ekspress-80/103	Ekspress-80/103	-	-	GIK-5	LC200/39	-	-	54824	-	-
2021-066	2459417.12	2021 Jul 21 1458:25	Proton-M	-	535-45	Nauka	MLM-U No. 17901	ISS 3R	-	GIK-5	LC200/39	-	-	424	-	-
2021-123	2459562.00	2021 Dec 13 1207:00	Proton-M/Briz-M	-	535-46/88536	Ekspress-AMU3/AMU7	Ekpress-AMU3/AMU7	-	-	GIK-5	LC200/39	-	-	58584	-	-
2022-131	2459865.12	2022 Oct 12 1500	Proton-M/DM-3	-	935-71/6L	Angosat-2	Angosat-2	-	-	GIK-5	LC81/24	-	-	-	-	-
2023-016	2459980.88	2023 Feb 5 0912:52	Proton-M/DM-3	-	935-68/7L	Elektro-L No. 4	Elektro-L No. 4	-	-	GIK-5	LC81/24	-	-	-	-	-
2023-031	2460016.47	2023 Mar 12 2313:00	Proton-M/Briz-M	-	935-72/99569	Luch-5Kh	Olimp-K No. 13L	-	-	GIK-5	LC81/24	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-054	2438957.97	1965 Jul 16 1116	UR-500	-	107207-01 (207)	8.700	RVSN	OS	-	G	Sat LEO O 2	NK9810-25	-	-
1965-087	2439067.02	1965 Nov 2 1228	UR-500	-	209	8.700	RVSN	OS	-	G	Sat LEO O 2	NK9810-25	-	-
1966-F03	2439209.11	1966 Mar 24 1439	UR-500	-	211	8.700	RVSN	OF	S2P	G	Sat LEO O 2	AK15	NK9810-25	Engine out
1966-060	2439313.04	1966 Jul 6 1257	UR-500	-	212	12.200	RVSN	OS	-	G	Sat LEO O 2	NK9810-25	-	-
1967-021	2439559.98	1967 Mar 10 1130:33	UR-500K/Blok D	-	N10722701	5.890	RVSN	DS	-	G	Sat DSO O 2	NK9810-25	NK9810-25	-
1967-032	2439588.88	1967 Apr 8 0900:33	Proton-K/D	-	228-01	7.750	RVSN	OF40	S4R	G	Sat DSO O 2	NK9708-59	NK9708-59	SOZ jettison early
1967-F11	2439761.42	1967 Sep 27 2211:54	Proton-K/D	-	229-01	5.680	RVSN	OF	S1P	G	Sat EEO E 2	NK9810-25	NK9810-25	S1 failed
1967-F12	2439817.30	1967 Nov 22 1907:59	Proton-K/D	-	230-01	5.680	RVSN	OF	S2P	G	Sat EEO E 2	NK9810-25	NK9810-25	Engine nozzle failed
1968-013	2439918.27	1968 Mar 2 1829:23	Proton-K/D	-	231-01	5.950	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1968-F03	2439969.46	1968 Apr 22 2301:27	Proton-K/D	-	232-01	7.680	RVSN	OF	S2G	G	Sat EEO E 2	NK9810-25	NK9810-25	Control failed after fairing sep
1968-E01	2440052.50	1968 Jul 15	Proton-K/D	-	-	0.000	RVSN	OE	PE	G	Sat EEO E 2	-	-	S4 exploded on pad
1968-076	2440114.40	1968 Sep 14 2142:11	Proton-K/D	-	234-01	5.950	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	VSA074,Petrov71	-
1968-101	2440171.30	1968 Nov 10 1911:31	Proton-K/D	-	235-01	5.950	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	Petrov71	-
1968-103	2440176.99	1968 Nov 16 1140	Proton-K	-	236-01	17.000	RVSN	OS	-	G	Sat LEO O	NK9810-25	-	-
1969-F01	2440241.68	1969 Jan 20 0414:36	Proton-K/D	-	237-01	5.680	RVSN	OF	S2P	G	Sat EEO E 2	NK9810-25	AVMNLJ	Early engine shutdown
1969-F04	2440271.78	1969 Feb 19 0648:15	Proton-K/D	-	239-01	4.100	RVSN	OF	FF	G	Sat EEO E 2	NK9524-70	NK9810-25	Fairing structural fail
1969-F06	2440307.94	1969 Mar 27 1040:45	Proton-K/D	-	240-01	3.500	RVSN	OF	S3	G	Sat EEO E 2	NK9810-25	KIAM	S3 issue
1969-F07	2440313.94	1969 Apr 2 1033:00	Proton-K/D	-	233-01	3.500	RVSN	OF	S1P	G	Sat EEO E 2	NK9810-25	KIAM	S1 failure
1969-F08	2440386.67	1969 Jun 14 0400:47	Proton-K/D	-	238-01	4.100	RVSN	OF	S4I	G	Sat EEO E 2	NK9810-25	NK9810-25	Ignition failure
1969-058	2440415.62	1969 Jul 13 0254:42	Proton-K/D	-	242-01	5.820	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	Petrov71	-
1969-067	2440441.49	1969 Aug 7 2348:06	Proton-K/D	-	243-01	5.950	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1969-080	2440488.09	1969 Sep 23 1407:36	Proton-K/D	-	244-01	5.700	RVSN	OF40	S4R	G	Sat EEO E 2	NK9810-25	NK9810-25	Details uncertain
1969-092	2440517.09	1969 Oct 22 1409:59	Proton-K/D	-	241-01	5.700	RVSN	OF40	S4G2	G	Sat EEO E 2	NK9810-25	NK9810-25	Blok D restart orientation
1969-F14	2440553.88	1969 Nov 28 0900:00	Proton-K/D	-	245-01 Yu10724-501	19.040	RVSN	OF	S3P	G	Sat EEO E 2	NK9810-25	NK9810-25	Engine failed
1970-F02	2440623.68	1970 Feb 6 0416:06	Proton-K/D	-	247-01	4.100	RVSN	OF	S2P	G	Sat EEO E 2	NK9810-25	NK9810-25	Control system error
1970-S488	2440816.66	1970 Aug 18 0345:00	Proton-K	-	246-01	0.000	RVSN	TS	-	-	Test	NK9810-25	NK9810-25	-
1970-072	2440842.06	1970 Sep 12 1325:53	Proton-K/D	-	248-01	5.820	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	Petrov71	-
1970-088	2440880.33	1970 Oct 20 1955:39	Proton-K/D	-	250-01	5.740	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1970-095	2440901.11	1970 Nov 10 1444:01	Proton-K/D	-	251-01	4.220	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	Petrov71	-
1970-103	2440923.21	1970 Dec 2 1700:00	Proton-K/D	-	252-01	19.040	RVSN	OS	-	G	Sat MEO O 2	NK9810-25	NK9810-25	-
1971-032	2441060.57	1971 Apr 19 0140:00	Proton-K	-	254-01	18.210	RVSN	OS	-	G	Sat LSS O	NK9810-25	KIAM	-
1971-042	2441082.21	1971 May 10 1658:42	Proton-K/D	-	253-01	18.029	RVSN	OF40	S4R	G	Sat EEO E 2	NK9810-25	KIAM	Restart failure
1971-045	2441091.18	1971 May 19 1622:44	Proton-K/D	-	255-01	5.984	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1971-049	2441100.14	1971 May 28 1526:30	Proton-K/D	-	249-01	5.984	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1971-073	2441197.07	1971 Sep 2 1340:40	Proton-K/D	-	256-01	5.820	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	AVMP	-
1971-082	2441222.92	1971 Sep 28 1000:22	Proton-K/D	-	257-01	3.920	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	AVMP	-
1972-007	2441361.64	1972 Feb 14 0327:59	Proton-K/D	-	258-01	4.701	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9704-81	-
1972-F04	2441527.64	1972 Jul 29 0320:57	Proton-K	-	260-01	18.900	RVSN	OF	S2P	G	Sat LSS O	NK9810-25	KIAM	Early shutdown
1973-001	2441690.79	1973 Jan 8 0655:38	Proton-K/D	-	259-01	4.304	RVSN	DS	-	G	Sat EEO E 2	NK9524-70	NK9810-25	-
1973-017	2441775.88	1973 Apr 3 0900:00	Proton-K	-	283-01	19.078	RVSN	OS	-	G	Sat LSS O	NK9810-25	AVMP	-
1973-026	2441813.51	1973 May 11 0020:00	Proton-K	-	284-01	18.500	RVSN	OS	-	G	Sat LSS O	NK9810-25	KIAM	-
1973-047	2441885.31	1973 Jul 21 1930:59	Proton-K/D	-	261-01	3.440	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1973-049	2441889.29	1973 Jul 25 1855:48	Proton-K/D	-	262-01	3.440	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1973-052	2441900.24	1973 Aug 5 1745:48	Proton-K/D	-	281-01	4.470	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1973-053	2441904.21	1973 Aug 9 1700:17	Proton-K/D	-	281-02	4.470	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	KIAM	-
1974-017	2442133.07	1974 Mar 26 1335:00	Proton-K/DM	-	282-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1974-037	2442196.87	1974 May 29 0856:51	Proton-K/D	-	282-02	3.920	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	AVMP	-
1974-046	2442223.44	1974 Jun 24 2238:00	Proton-K	-	283-02	19.260	RVSN	OS	-	G	Sat LSS O	NK9810-25	NK9810-25	-
1974-060	2442258.00	1974 Jul 29 1200:00	Proton-K/DM	-	287-01	2.450	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1974-084	2442349.10	1974 Oct 28 1430:32	Proton-K/D	-	285-01	4.220	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	AVMP	-
1974-104	2442407.68	1974 Dec 26 0415:00	Proton-K	-	284-02	18.500	RVSN	OS	-	G	Sat LSS O	NK9810-25	KIAM	-
1975-050	2442571.61	1975 Jun 8 0238:00	Proton-K/D	-	286-01	6.608	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1975-054	2442577.63	1975 Jun 14 0300:31	Proton-K/D	-	285-02	6.705	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1975-097	2442693.52	1975 Oct 8 0030:00	Proton-K/DM	-	286-02	2.050	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1975-F05	2442701.67	1975 Oct 16 0404:56	Proton-K/D-1	-	287-02	4.100	RVSN	OF	S4I	G	Sat EEO E 2	NK9810-25	NK9810-25	No S4 ignition
1975-123	2442769.04	1975 Dec 22 1300:00	Proton-K/DM	-	288-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1976-057	2442952.25	1976 Jun 22 1804:00	Proton-K	-	290-02	19.260	RVSN	OS	-	G	Sat LSS O	NK9810-25	NK9810-25	-
1976-081	2443000.13	1976 Aug 9 1504:12	Proton-K/D-1	-	288-02	5.820	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1976-092	2443033.27	1976 Sep 11 1824:00	Proton-K/DM	-	289-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1976-107	2443078.12	1976 Oct 26 1450:00	Proton-K/DM	-	290-01	2.800	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1976-121	2443127.56	1976 Dec 15 0130:00	Proton-K	-	289-02	18.500	RVSN	OS	-	G	Sat LEO O	NK9810-25	NK9810-25	-
1977-066	2443341.88	1977 Jul 17 0900:00	Proton-K	-	293-02	23.250	RVSN	OS	-	G	Sat LEO O 1	NK9810-25	NK9810-25	-
1977-071	2443348.39	1977 Jul 23 2115:00	Proton-K/DM	-	291-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1977-F02	2443360.42	1977 Aug 4 2200:00	Proton-K	-	293-01	13.700	RVSN	OF	S1P	G	Sat LEO O	NK9810-25	NK9810-25	Engine failed
1977-092	2443407.23	1977 Sep 20 1728:00	Proton-K/DM	-	291-02	2.800	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1977-097	2443415.78	1977 Sep 29 0650:00	Proton-K	-	295-01	19.824	RVSN	OS	-	G	Sat LSS O	NK9810-25	KIAM	-
1978-032	2443597.50	1978 Mar 30 0000:00	Proton-K	-	292-01	18.500	RVSN	OS	-	G	Sat LEO O	NK9810-25	NK9810-25	-
1978-F02	2443655.56	1978 May 27 0125:00	Proton-K/DM	-	294-02	2.000	RVSN	OF	S1P	G	Sat GEO OO 3	NK9810-25	NK9810-25	Engine failed
1978-073	2443708.42	1978 Jul 18 2159:00	Proton-K/DM	-	292-02	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1978-F03	2443738.33	1978 Aug 17 2002:00	Proton-K/DM	-	297-02	2.000	RVSN	OF	S2P	G	Sat GEO OO 3	NK9810-25	NK9810-25	Engine failed?
1978-084	2443760.64	1978 Sep 9 0325:39	Proton-K/D-1	-	296-01	6.120	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1978-086	2443765.60	1978 Sep 14 0225:13	Proton-K/D-1	-	296-02	6.120	RVSN	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1978-F04	2443799.17	1978 Oct 17 1604:00	Proton-K/DM	-	298-01	2.000	RVSN	OF	S2P	G	Sat GEO OO 3	NK9810-25	NK9810-25	Details unknown
1978-118	2443862.01	1978 Dec 19 1215:00	Proton-K/DM	-	295-02	2.120	RVSN	OS60	S4P2	G	Sat GEO OO 3	NK9602-24	NK9810-25	Underburned
1979-015	2443925.83	1979 Feb 21 0749:00	Proton-K/DM	-	294-01	2.800	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1979-035	2443988.66	1979 Apr 25 0344:00	Proton-K/DM	-	298-02	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1979-042	2444016.46	1979 May 22 2300:00	Proton-K	-	300-02	18.500	RVSN	OS	-	G	Sat LEO O	NK9810-25	NK9810-25	-
1979-062	2444060.47	1979 Jul 5 2319:00	Proton-K/DM	-	299-01	2.920	RVSN	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1979-087	2444150.22	1979 Oct 3 1712:00	Proton-K/DM	-	302-02	2.112	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1979-105	2444235.99	1979 Dec 28 1151:00	Proton-K/DM	-	303-01	2.120	RVSN	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1980-016	2444289.84	1980 Feb 20 0805:00	Proton-K/DM	-	297-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1980-049	2444404.53	1980 Jun 14 0049:50	Proton-K/DM	-	303-02	2.920	RVSN	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1980-060	2444435.44	1980 Jul 14 2235	Proton-K/DM	-	301-01	2.800	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1980-081	2444518.22	1980 Oct 5 1710:00	Proton-K/DM	-	300-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1980-104	2444599.99	1980 Dec 26 1149:00	Proton-K/DM	-	304-01	2.800	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1981-027	2444681.69	1981 Mar 18 0440:00	Proton-K/DM	-	306-01	2.765	RVSN	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-039	2444719.58	1981 Apr 25 0201	Proton-K	-	299-02	23.250	RVSN	OS	-	G	Sat LSS 0	NK9810-25	NK9810-25	-
1981-061	2444781.50	1981 Jun 25 2355:00	Proton-K/DM	-	305-01	2.800	RVSN	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1981-069	2444816.40	1981 Jul 30 2138:00	Proton-K/DM	-	301-02	2.765	RVSN	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1981-102	2444887.21	1981 Oct 9 1659:00	Proton-K/DM	-	310-01	2.765	RVSN	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1981-106	2444907.75	1981 Oct 30 0604:22	Proton-K/D-1	-	311-01	6.120	RVSN	DS	-	G	Sat EEO E 2	AK15	NK9810-25	-
1981-110	2444912.73	1981 Nov 4 0531:16	Proton-K/D-1	-	311-02	6.120	RVSN	DS	-	G	Sat EEO E 2	AK15	NK9810-25	-
1982-009	2445005.88	1982 Feb 5 0912:00	Proton-K/DM	-	308-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1982-020	2445043.69	1982 Mar 15 0439:00	Proton-K/DM	-	305-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1982-033	2445079.32	1982 Apr 19 1945:00	Proton-K	-	306-02	19.852	UNKS	OS	-	G	Sat LSS 0	NK9708-59	NK9810-25	-
1982-044	2445107.49	1982 May 17 2350:00	Proton-K/DM	-	310-02	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9422-47	NK9810-25	-
1982-F04	2445173.42	1982 Jul 22 2211:00	Proton-K/DM	-	307-02	2.000	UNKS	OF	S1P	G	Sat GEO 00 3	NK9810-25	NK9810-25	Details unknown
1982-093	2445229.27	1982 Sep 16 1831:00	Proton-K/DM	-	309-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1982-100	2445255.12	1982 Oct 12 1456:59	Proton-K/DM-2	-	315-01	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1982-103	2445263.18	1982 Oct 20 1626:00	Proton-K/DM	-	312-01	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1982-113	2445300.09	1982 Nov 26 1413:00	Proton-K/DM	-	313-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1982-F08	2445328.00	1982 Dec 24 1200:00	Proton-K/DM	-	314-01	1.965	UNKS	OF	S2P	G	Sat GEO 00 3	NK9810-25	NK9810-25	Details unknown
1983-013	2445395.90	1983 Mar 2 0937:08	Proton-K	-	309-02	23.250	UNKS	OS	-	G	Sat LSS 0	NK9810-25	NK9810-25	-
1983-016	2445406.08	1983 Mar 12 1400:00	Proton-K/DM	-	304-02	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1983-020	2445417.03	1983 Mar 23 1245:06	Proton-K/D-1	-	307-01	3.500	UNKS	OS	-	G	Sat DSO S00 2	NK9810-25	NK9810-25	-
1983-028	2445432.70	1983 Apr 8 0445:00	Proton-K/DM	-	315-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1983-053	2445487.61	1983 Jun 2 0238:40	Proton-K/D-1	-	321-01	5.362	UNKS	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1983-054	2445492.61	1983 Jun 7 0232:51	Proton-K/D-1	-	321-02	5.412	UNKS	DS	-	G	Sat EEO E 2	AK15	NK9810-25	-
1983-066	2445516.50	1983 Jun 30 2356:00	Proton-K/DM	-	314-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1983-084	2445557.27	1983 Aug 10 1824:26	Proton-K/DM-2	-	317-01	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1983-088	2445572.33	1983 Aug 25 2002:00	Proton-K/DM	-	316-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1983-100	2445607.23	1983 Sep 29 1737:00	Proton-K/DM	-	318-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1983-118	2445669.08	1983 Nov 30 1351:00	Proton-K/DM	-	308-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1983-127	2445697.54	1983 Dec 29 0052:24	Proton-K/DM-2	-	320-02	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1984-016	2445745.87	1984 Feb 15 0846:00	Proton-K/DM	-	318-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1984-022	2445761.66	1984 Mar 2 0354:00	Proton-K/DM	-	316-01	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9422-47	NK9810-25	-
1984-028	2445776.08	1984 Mar 16 1400:00	Proton-K/DM	-	322-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1984-031	2445788.75	1984 Mar 29 0552:56	Proton-K/DM	-	319-02	2.050	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1984-041	2445812.68	1984 Apr 22 0421:00	Proton-K/DM	-	312-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1984-047	2445840.13	1984 May 19 1510:42	Proton-K/DM-2	-	323-02	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1984-063	2445873.51	1984 Jun 22 0020:00	Proton-K/DM	-	319-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1984-078	2445914.40	1984 Aug 1 2137:00	Proton-K/DM	-	324-01	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1984-090	2445937.33	1984 Aug 24 1950:00	Proton-K/DM	-	324-02	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1984-095	2445948.16	1984 Sep 4 1549:53	Proton-K/DM-2	-	320-01	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1984-106	2445972.08	1984 Sep 28 1400:00	Proton-K/DM-2	-	327-02	4.270	UNKS	OS	-	G	Sat LEO 00 3	NK9810-25	NK9810-25	-
1984-125	2446049.89	1984 Dec 15 0916:24	Proton-K/D-1	-	329-01	6.784	UNKS	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1984-128	2446055.88	1984 Dec 21 0913:52	Proton-K/D-1	-	325-02	6.784	UNKS	DS	-	G	Sat EEO E 2	NK9810-25	NK9810-25	-
1985-007	2446083.93	1985 Jan 18 1025:00	Proton-K/DM	-	326-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1985-016	2446117.83	1985 Feb 21 0756:48	Proton-K/DM	-	327-01	2.050	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1985-024	2446146.71	1985 Mar 22 0500:00	Proton-K/DM	-	328-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1985-037	2446203.44	1985 May 17 2228:41	Proton-K/DM-2	-	330-02	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1985-042	2446216.12	1985 May 30 1459:00	Proton-K/DM-2	-	313-02	4.270	UNKS	OS	-	G	Sat LEO 00 3	NK9810-25	NK9810-25	-
1985-070	2446286.38	1985 Aug 8 2101:00	Proton-K/DM	-	317-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1985-086	2446335.86	1985 Sep 27 0841:42	Proton-K	-	331-01	23.250	UNKS	OS	-	G	Sat LSS 0	NK9810-25	NK9810-25	-
1985-102	2446364.16	1985 Oct 25 1545:00	Proton-K/DM-2	-	332-02	3.200	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1985-107	2446385.10	1985 Nov 15 1429:00	Proton-K/DM	-	326-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1985-118	2446424.41	1985 Dec 24 2143:28	Proton-K/DM-2	-	334-02	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1986-007	2446447.93	1986 Jan 17 1020:00	Proton-K/DM	-	331-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1986-017	2446481.39	1986 Feb 19 2128:23	Proton-K	-	337-01	20.120	UNKS	OS	-	G	Sat LSS 0	NK9810-25	NK9810-25	-
1986-027	2446524.66	1986 Apr 4 0345:00	Proton-K/DM	-	302-01	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9422-47	NK9810-25	-
1986-038	2446574.57	1986 May 24 0142:00	Proton-K/DM	-	333-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1986-044	2446591.53	1986 Jun 10 0049:00	Proton-K/DM	-	322-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1986-071	2446689.98	1986 Sep 16 1138:09	Proton-K/DM-2	-	336-01	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1986-082	2446729.15	1986 Oct 25 1543:00	Proton-K/DM	-	335-02	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1986-090	2446753.09	1986 Nov 18 1408:03	Proton-K/DM	-	334-01	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1986-F07	2446763.83	1986 Nov 29 0800	Proton-K	-	338-01	18.500	UNKS	OF	S1S	G	Sat LEO 0	NK9810-25	NK9810-25	S1 sep fail
1987-010	2446825.89	1987 Jan 30 0919:00	Proton-K/DM-2	-	341-01	2.900	UNKS	OF40	S4I	G	Sat GEO 00 3	NK9810-25	NK9810-25	Stuck in parking orbit
1987-028	2446873.66	1987 Mar 19 0354:00	Proton-K/DM	-	323-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1987-030	2446885.50	1987 Mar 31 0006:16	Proton-K	-	336-02	20.600	UNKS	OS	-	G	Sat LSS 0	NK9707-75	NK9810-25	-
1987-036	2446910.03	1987 Apr 24 1242:54	Proton-K/DM-2	-	335-01	4.700	UNKS	OF40	S4R	G	Sat MEO 00 3	NK9810-25	NK9810-25	S4 underburn
1987-040	2446927.11	1987 May 11 1445:00	Proton-K/DM	-	338-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1987-064	2447001.88	1987 Jul 25 0900:00	Proton-K	-	347-01	18.500	UNKS	OS	-	G	Sat LEO 0	NK9810-25	NK9810-25	-
1987-073	2447042.31	1987 Sep 3 1926:00	Proton-K/DM	-	337-02	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1987-079	2447054.62	1987 Sep 16 0253:31	Proton-K/DM-2	-	339-02	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1987-084	2447070.21	1987 Oct 1 1709:00	Proton-K/DM-2	-	328-02	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9422-47	NK9810-25	-
1987-091	2447097.14	1987 Oct 28 1515:00	Proton-K/DM-2	-	325-01	2.050	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1987-096	2447126.06	1987 Nov 26 1328:00	Proton-K/DM-2	-	330-01	3.200	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1987-100	2447139.98	1987 Dec 10 1130:00	Proton-K/DM-2	-	343-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1987-109	2447156.98	1987 Dec 27 1125:00	Proton-K/DM-2	-	345-01	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1988-F01	2447178.92	1988 Jan 18 0958:00	Proton-K/DM-2	-	341-02	2.120	UNKS	OF	S3P	G	Sat GEO 00 3	NK9602-24	NK9810-25	Turbopump vibration
1988-009	2447208.52	1988 Feb 17 0023:22	Proton-K/DM-2	-	346-02	22.410	UNKS	OF40	S4I	G	Sat MEO 00 3	NK9810-25	NK9810-25	Stuck in parking orbit
1988-028	2447251.68	1988 Mar 31 0418:00	Proton-K/DM	-	343-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1988-034	2447277.64	1988 Apr 26 0315:10	Proton-K/DM-2	-	332-01	3.000	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1988-036	2447287.62	1988 May 6 0247:00	Proton-K/DM	-	349-01	2.800	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1988-043	2447303.25	1988 May 21 1757:00	Proton-K/DM-2	-	348-01	4.700	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1988-058	2447350.23	1988 Jul 7 1738:04	Proton-K/D-2	-	356-02	6.220	UNKS	DS	-	G	Sat DSO SO 2	NK9810-25	NK9810-25	-
1988-059	2447355.21	1988 Jul 12 1701:43	Proton-K/D-2	-	356-01	6.220	UNKS	DS	-	G	Sat DSO SO 2	NK9810-25	NK9810-25	-
1988-066	2447375.38	1988 Aug 1 2104:00	Proton-K/DM-2	-	351-01	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9422-47	NK9810-25	-
1988-071	2447392.33	1988 Aug 18 1952:00	Proton-K/DM-2	-	333-02	2.920	UNKS	OS	-	G	Sat GEO 00 3	NK9602-24	NK9810-25	-
1988-085	2447420.58	1988 Sep 16 0200:47	Proton-K/DM-2	-	349-02	3.900	UNKS	OS	-	G	Sat MEO 00 3	NK9810-25	NK9810-25	-
1988-095	2447455.15	1988 Oct 20 1543:00	Proton-K/DM-2	-	339-01	2.765	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-
1988-108	2447506.00	1988 Dec 10 1154:00	Proton-K/DM-2	-	329-02	2.900	UNKS	OS	-	G	Sat GEO 00 3	NK9810-25	NK9810-25	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-001	2447536.59	1989 Jan 10 0205:25	Proton-K/DM-2	-	350-02	3.830	UNKS	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1989-004	2447552.89	1989 Jan 26 0916:00	Proton-K/DM-2	-	351-02	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1989-030	2447630.67	1989 Apr 14 0408:00	Proton-K/DM-2	-	359-02	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1989-039	2447677.86	1989 May 31 0831:59	Proton-K/DM-2	-	352-02	3.830	UNKS	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1989-048	2447699.48	1989 Jun 21 2335:00	Proton-K/DM-2	-	355-02	3.300	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1989-052	2447713.45	1989 Jul 5 2245:00	Proton-K/DM-2	-	340-02	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1989-081	2447798.21	1989 Sep 28 1705:00	Proton-K/DM-2	-	346-01	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1989-093	2447857.04	1989 Nov 26 1301:41	Proton-K	-	354-01	23.500	UNKS	OS	-	G	Sat LSS O	NK9810-25	NK9810-25	-
1989-096	2447862.35	1989 Dec 1 2020:57	Proton-K/D-1	-	352-01	4.402	UNKS	OS	-	G	Sat DSO SO 2	NK9810-25	NK9810-25	-
1989-098	2447875.98	1989 Dec 15 1130:00	Proton-K/DM-2	-	344-01	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1989-101	2447887.97	1989 Dec 27 1110:00	Proton-K/DM-2	-	347-02	3.200	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1990-016	2447937.83	1990 Feb 15 0752:00	Proton-K/DM-2	-	363-02	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1990-045	2448030.86	1990 May 19 0832:33	Proton-K/DM-2	-	350-01	3.900	UNKS	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1990-048	2448042.94	1990 May 31 1033:20	Proton-K	-	360-01	19.500	UNKS	OS	-	G	Sat LSS O	NK9810-25	NK9810-25	-
1990-054	2448063.48	1990 Jun 20 2336:00	Proton-K/DM	-	342-02	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1990-061	2448091.41	1990 Jul 18 2146:00	Proton-K/DM-2	-	340-01	2.900	UNKS	OS	-	G	Sat GEO OO 3	NK9422-47	NK9810-25	-
1990-F04	2448113.35	1990 Aug 9 2018:59	Proton-K/DM-2	-	345-02	2.100	UNKS	OF	S2P	G	Sat GEO OO 3	NK9810-25	NK9810-25	FOD in fuel line
1990-094	2448199.11	1990 Nov 3 1440:00	Proton-K/DM-2	-	370-01	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1990-102	2448219.06	1990 Nov 23 1322:00	Proton-K/DM-2	-	348-02	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1990-110	2448233.61	1990 Dec 8 0243:00	Proton-K/DM-2	-	366-02	4.700	UNKS	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1990-112	2448245.98	1990 Dec 20 1135:00	Proton-K/DM-2	-	361-01	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1990-116	2448252.96	1990 Dec 27 1108:00	Proton-K/DM-2	-	342-01	3.300	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1991-010	2448301.86	1991 Feb 14 0831:56	Proton-K/DM-2	-	344-02	3.000	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1991-014	2448315.73	1991 Feb 28 0530:00	Proton-K/DM-2	-	360-02	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1991-024	2448347.13	1991 Mar 31 1512:00	Proton-K	-	365-01	18.500	UNKS	OS	-	G	Sat LEO O	NK9810-25	NK9810-25	-
1991-025	2448350.95	1991 Apr 4 1047:12	Proton-K/DM-2	-	354-02	3.900	UNKS	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1991-046	2448439.41	1991 Jul 1 2153:00	Proton-K/DM-2	-	373-01	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1991-064	2448513.24	1991 Sep 13 1751:02	Proton-K/DM-2	-	353-01	2.050	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1991-074	2448553.14	1991 Oct 23 1525:00	Proton-K/DM-2	-	362-02	2.920	UNKS	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1991-079	2448583.06	1991 Nov 22 1327:00	Proton-K/DM-2	-	353-02	2.900	UNKS	OS	-	G	Sat GEO OO 3	NK9422-47	NK9810-25	-
1991-087	2448609.99	1991 Dec 19 1141:00	Proton-K/DM-2	-	355-01	2.765	UNKS	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1992-005	2448651.43	1992 Jan 29 2219:12	Proton-K/DM-2	-	372-02	4.700	UNKSR	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1992-017	2448714.58	1992 Apr 2 0150:00	Proton-K/DM-2	-	369-01	2.920	UNKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1992-043	2448818.42	1992 Jul 14 2202:00	Proton-K/DM-2	-	371-02	2.920	UNKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1992-047	2448833.58	1992 Jul 30 0159:01	Proton-K/DM-2	-	376-01	4.700	UNKSR	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1992-059	2448876.25	1992 Sep 10 1801:18	Proton-K/DM-2	-	363-01	2.050	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1992-074	2448926.12	1992 Oct 30 1459:00	Proton-K/DM-2	-	372-01	2.900	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1992-082	2448954.05	1992 Nov 27 1310:00	Proton-K/DM-2	-	364-01	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1992-088	2448974.03	1992 Dec 17 1245:00	Proton-K/DM-2	-	357-02	3.000	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1993-010	2449036.34	1993 Feb 17 2009:47	Proton-K/DM-2	-	362-01	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9810-25	NK9810-25	-
1993-013	2449071.60	1993 Mar 25 0228:00	Proton-K/DM-2	-	358-01	2.765	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1993-F01	2449134.56	1993 May 27 0122:00	Proton-K/DM-2	-	364-02	2.120	VKSR	OF	S2U*	G	Sat GEO OO 3	NK9602-24	NK9810-25	S3 ok, S4 N/A
1993-062	2449261.21	1993 Sep 30 1705:59	Proton-K/DM-2	-	359-01	2.765	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1993-069	2449289.14	1993 Oct 28 1517:00	Proton-K/DM-2	-	368-01	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1993-072	2449310.08	1993 Nov 18 1354:59	Proton-K/DM-2	-	367-01	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1994-002	2449372.91	1994 Jan 20 0949:00	Proton-K/DM-2M	DM-2M	358-02	3.400	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-008	2449388.87	1994 Feb 5 0846:00	Proton-K/DM-2	-	375-02	3.300	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-012	2449401.83	1994 Feb 18 0756:00	Proton-K/DM-2	-	376-02	2.765	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-021	2449453.83	1994 Apr 11 0749:22	Proton-K/DM-2	-	377-01	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9501-24	NK9810-25	-
1994-030	2449492.58	1994 May 20 0201:00	Proton-K/DM-2	-	357-01	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1994-038	2449540.50	1994 Jul 6 2358:51	Proton-K/DM-2	-	365-02	3.000	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-050	2449576.14	1994 Aug 11 1527:46	Proton-K/DM-2	-	367-02	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9501-24	NK9810-25	-
1994-060	2449617.25	1994 Sep 21 1753:00	Proton-K/DM-2	-	381-02	2.900	VKSR	OS	-	G	Sat GEO OO 3	NK9422-47	NK9810-25	-
1994-067	2449639.18	1994 Oct 13 1619:00	Proton-K/DM-2M	DM-2M	377-02	3.300	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-069	2449657.10	1994 Oct 31 1430:56	Proton-K/DM-2	-	361-02	3.380	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-076	2449676.53	1994 Nov 20 0039:37	Proton-K/DM-2	-	371-01	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9501-24	NK9810-25	-
1994-082	2449703.00	1994 Dec 16 1200:00	Proton-K/DM-2	-	373-02	3.200	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1994-087	2449714.98	1994 Dec 28 1131:00	Proton-K/DM-2	-	366-01	2.765	VKSR	OS	-	G	Sat GEO OO 3	NK9501-24	NK9810-25	-
1995-009	2449783.89	1995 Mar 7 0923:44	Proton-K/DM-2	-	370-02	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9505-47	NK9810-25	-
1995-024	2449857.65	1995 May 20 0333:22	Proton-K	-	378-02	22.000	VKSR	OS	-	G	Sat LSS O	NK9510-30	NK9810-25	-
1995-037	2449923.16	1995 Jul 24 1552:10	Proton-K/DM-2	-	374-01	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9515-28	NK9810-25	-
1995-045	2449960.31	1995 Aug 30 1933:00	Proton-K/DM-2	-	369-02	3.100	VKSR	OS	-	G	Sat GEO OO 3	NK9518-35	NK9810-25	-
1995-054	2450002.18	1995 Oct 11 1626:00	Proton-K/DM-2	-	386-01	3.200	VKSR	OS	-	G	Sat GEO OO 3	NK9521-36	NK9810-25	-
1995-063	2450039.10	1995 Nov 17 1425:00	Proton-K/DM-2	-	384-01	3.400	VKSR	OS	-	G	Sat GEO OO 3	NK9523-59	NK9810-25	-
1995-068	2450065.76	1995 Dec 14 0610:31	Proton-K/DM-2	-	378-01	4.700	VKSR	OS	-	G	Sat MEO OO 3	NK9525-30	NK9810-25	-
1996-005	2450107.91	1996 Jan 25 0956:00	Proton-K/DM-2	-	374-02	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9602-24	NK9810-25	-
1996-010	2450132.85	1996 Feb 19 0819:00	Proton-K/DM-2	-	383-02	2.765	VKSR	OS	-	G	Sat GEO OO 3	NK9604-45	NK9810-25	-
1996-021	2450182.46	1996 Apr 8 2309:01	Proton-K/DM-2M	DM3	390-01	3.810	ILSK	OS	-	CO	Sat GTO OO 1	NK9608-29	NK9810-25	-
1996-023	2450196.99	1996 Apr 23 1148:50	Proton-K	-	385-01	19.470	VKSR	OS	-	G	Sat LSS O	NK9609-13	NK9810-25	-
1996-034	2450228.59	1996 May 25 0205	Proton-K/DM-2	-	379-01	2.920	VKSR	OS	-	G	Sat GEO OO 3	NK9611-38	NK9810-25	-
1996-053	2450333.23	1996 Sep 6 1737:39	Proton-K/DM-2	DM1	375-01	1.930	KHRU	OS	-	G/C	Sat GEO OO 1	NK9618-26	NK9810-25	-
1996-058	2450353.24	1996 Sep 26 1750:53	Proton-K/DM-2M	DM-2M	379-02	3.300	VKSR	OS	-	G	Sat GEO OO 3	NK9810-25	NK9810-25	-
1996-064	2450404.37	1996 Nov 16 2048:53	Proton-K/D-2	-	392-02	6.825	VKSR	OS	-	G	Sat DSO SO 2	NK9622-25	NK9810-25	-
1997-026	2450593.21	1997 May 24 1700:00	Proton-K/DM-2M	DM4	380-02	4.700	ILSK	OS	-	CO	Sat GTO OO 1	NK9711-18	NK9713-46	-
1997-028	2450606.21	1997 Jun 6 1656:54	Proton-K/17S40	DM-5	380-01	7.500	VKSR	OS	-	G	Sat MEO OO 3	NK9712-20	NK9810-25	-
1997-030	2450618.09	1997 Jun 18 1402:45	Proton-K/17S40	DM2	390-02	5.934	KHRU	OS	-	G/C	Sat LEO OO 1	NK9713-34	NK9810-25	-
1997-041	2450675.37	1997 Aug 14 2049:14	Proton-K/DM-2	-	381-01	2.050	VKSR	OS	-	G	Sat GEO OO 3	NK9713-57	NK9810-25	-
1997-046	2450688.52	1997 Aug 28 0033:30	Proton-K/DM-2M	DM3	387-02	4.400	ILSK	OS	-	CO	Sat GTO OO 1	NK9721-38	NK9713-46	-
1997-051	2450705.57	1997 Sep 14 0136:54	Proton-K/17S40	DM2	391-01	5.934	KHRU	OS	-	G/C	Sat LEO OO 1	NK9718-55	NK9713-46	-
1997-070	2450765.21	1997 Nov 12 1700:00	Proton-K/DM-2M	DM-2M	382-01	3.100	RVSNR	OS	-	G/C	Sat GEO OO 3	NK9723-36	Lissov980706	-
1997-076	2450785.47	1997 Dec 2 2310:37	Proton-K/DM-2M	DM3	382-02	4.188	ILSK	OS	-	CO	Sat GTO OO 1	NK9725-35	NK9810-25	-
1997-086	2450807.47	1997 Dec 24 2319:00	Proton-K/DM-2M	DM3	394-01	4.280	ILSK	OF40	S4R	CO	Sat GTO OO 1	NK9726-45	NK9713-46	Restart lasted 1s
1998-021	2450910.59	1998 Apr 7 0213:03	Proton-K/17S40	DM2	391-02	5.934	KHRU	OS	-	G/C	Sat LEO OO 1	NK9809-11	NK9809-11	-
1998-025	2450932.69	1998 Apr 29 0436:54	Proton-K/DM-2	-	384-02	3.000	RVSNR	OS	-	G	Sat GEO OO 3	NK9810-25	Lissov980706	-
1998-028	2450941.49	1998 May 7 2345:00	Proton-K/DM-2M	DM3	393-02	4.270	ILSK	OS	-	CO	Sat GTO OO 1	NK9811-15	NK9902-45	-
1998-050	2451055.52	1998 Aug 30 0031:00	Proton-K/DM-2M	DM3	383-01	4.350	ILSK	OS	-	CO	Sat GTO OO 1	NK9817-28	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1998-065	2451121.72	1998 Nov 4 0512:00	Proton-K/DM-2M	DM3	395-02	4.600	ILSK	OS	-	CO	Sat GTO 00 1	NK9823-30	-	-
1998-067	2451137.78	1998 Nov 20 0640:00	Proton-K	-	395-01	100.424	RVSNR	OS	-	G	Sat ISS 0	NK9901-02	-	-
1998-077	2451178.27	1998 Dec 30 1835:46	Proton-K/DM-2	-	385-02	4.812	RVSNR	OS	-	G	Sat MEO 00 3	WWW-CFSCIC	NK9902-18	-
1999-005	2451224.72	1999 Feb 15 0512:00	Proton-K/DM-2M	DM3	396-01	4.470	ILSK	OS	-	CO	Sat GTO 00 1	NK9904-28	NK9901-58	-
1999-010	2451237.67	1999 Feb 28 0400:00	Proton-K/DM-2	-	387-01	3.412	RVSNR	OS	-	G	Sat GEO 00 3	NK9904-38	-	-
1999-013	2451258.51	1999 Mar 21 0009:30	Proton-K/DM-2M	DM3	388-01	4.263	ILSK	OS	-	CO	Sat GTO 00 1	NK0003-17	-	-
1999-027	2451319.44	1999 May 20 2230:00	Proton-K/DM-2M	DM3	396-02	4.446	ILSK	OS	-	CO	Sat GTO 00 1	NK9907-42	-	-
1999-033	2451347.58	1999 Jun 18 0149:30	Proton-K/DM-2M	DM3	397-02	4.528	ILSK	OS	-	CO	Sat GTO 00 1	NK9908-12	-	-
1999-F02	2451365.06	1999 Jul 5 1332:00	Proton-K/Briz-M	-	389-01/88501	1.932	RVSNR	OF	S2P	G	Sat GEO SO 1	NK9909-26	-	Engine fail
1999-047	2451428.19	1999 Sep 6 1636:00	Proton-K/DM-2M	DM-2M	388-02	3.740	KHRU	OS	-	G	Sat GEO 00 3	NK9911-04	-	-
1999-053	2451448.44	1999 Sep 26 2230:00	Proton-K/DM-2M	DM3	398-02	4.540	ILSK	OS	-	CO	Sat GTO 00 1	NK9911-20	-	-
1999-F03	2451479.18	1999 Oct 27 1616:00	Proton-K/DM-2	-	386-02	2.300	KHRU	OF	S2P	G	Sat GEO 00 3	Kosmodrom9911	NK9912-13	Engine exploded
2000-011	2451586.88	2000 Feb 12 0910:54	Proton-K/DM-2M	DM3	399-02	4.500	ILSK	OS	-	CO	Sat GTO SO 1	NK0004-32	-	-
2000-013	2451615.67	2000 Mar 12 0407:00	Proton-K/DM-2M	DM-2M	399-01	3.320	KHRU	OS	-	G	Sat GEO 00 3	NK0005-20	-	-
2000-019	2451652.38	2000 Apr 17 2106:00	Proton-K/DM-2M	DM-2M	397-01	3.512	KHRU	OS	-	G	Sat GEO 00 3	NK0006-26	-	-
2000-029	2451701.62	2000 Jun 6 0259:00	Proton-K/Briz-M	-	392-01/88502	3.158	KHRU	OS	-	G	Sat GEO SO 1	NK0008-16	-	-
2000-031	2451719.52	2000 Jun 24 0028:00	Proton-K/DM-2M	DM-2M	394-02	3.620	KHRU	OS	-	G	Sat GEO 00 3	NK0008-23	-	-
2000-035	2451726.42	2000 Jun 30 2208:47	Proton-K/DM-2M	DM3	400-01	4.600	ILSK	OS	-	CO	Sat HEO 00 1	NK0008-35	-	-
2000-036	2451730.49	2000 Jul 4 2344:00	Proton-K/DM-2	-	389-02	3.120	KHRU	OS	-	G	Sat GEO 00 3	NK0009-24	-	-
2000-037	2451737.71	2000 Jul 12 0456:36	Proton-K	-	398-01	20.300	KHRU	OS	-	G	Sat ISS 0	NK0009-02	Kosmodrom00-08	-
2000-049	2451785.34	2000 Aug 28 2008:00	Proton-K/DM-2	-	401-02	3.520	KHRU	OS	-	G	Sat GEO 00 3	NK0010-13	Space.com	-
2000-051	2451792.91	2000 Sep 5 0943:58	Proton-K/DM-2M	DM3	400-02	4.600	ILSK	OS	-	CO	Sat HEO 00 1	NK0011-29	-	-
2000-059	2451819.42	2000 Oct 1 2200:00	Proton-K/DM-2M	DM3	401-01	4.393	ILSK	OS	-	CO	Sat GTO 00 1	NK0012-38	-	-
2000-063	2451831.09	2000 Oct 13 1412:45	Proton-K/DM-2	-	393-01	4.812	KHRU	OS	-	G	Sat MEO 00 3	NK0012-43	-	-
2000-067	2451839.42	2000 Oct 21 2200:00	Proton-K/DM-2M	DM3	402-01	4.352	ILSK	OS	-	CO	Sat GTO 00 1	NK0012-38	-	-
2000-077	2451879.33	2000 Nov 30 1959:47	Proton-K/DM-2M	DM3	402-02	4.565	ILSK	OS	-	CO	Sat HEO 00 1	NK0101-31	-	-
2001-014	2452006.66	2001 Apr 7 0347:00	Proton-M/Briz-M	-	535-01/88503	3.005	KHRU	OS	-	G	Sat GEO SO 1	NK0106-38	-	-
2001-019	2452044.55	2001 May 15 0111:30	Proton-K/DM-2M	DM3	403-01	4.572	ILSK	OS	-	CO	Sat GTO 00 1	NK0107-22	-	-
2001-025	2452076.58	2001 Jun 16 0149:00	Proton-K/DM-2M	DM3	403-02	4.443	ILSK	OS	-	CO	Sat GTO 00 1	NK0108-23	-	-
2001-037	2452146.36	2001 Aug 24 2034:50	Proton-K/DM-2	-	404-01	3.220	KHRU	OS	-	G	Sat GEO 00 3	NK0110-37	-	-
2001-045	2452189.20	2001 Oct 6 1645:00	Proton-K/DM-2	-	405-01	3.340	KHRU	OS	-	G	Sat GEO 00 3	NK0112-37	-	-
2001-053	2452245.25	2001 Dec 1 1804:44	Proton-K/DM-2	-	405-02	5.162	KHRU	OS	-	G	Sat MEO 00 3	NK0203-35	NK0202-22	-
2002-016	2452364.23	2002 Mar 30 1725:00	Proton-K/DM-2M	DM3	406-01	4.726	ILSK	OS	-	CO	Sat GTO SO	NK0205-49	-	-
2002-023	2452402.21	2002 May 7 1700:00	Proton-K/DM-2M	DM3	404-02	4.440	ILSK	OS	-	CO	Sat GTO 00 1	NK0207-30	-	-
2002-029	2452435.55	2002 Jun 10 0114:00	Proton-K/DM-2M	DM-2M	407-01	3.566	KHRU	OS	-	G	Sat GEO 00 3	NK0208-33	-	-
2002-037	2452481.13	2002 Jul 25 1513:21	Proton-K/17S40	DM-5	408-01	8.412	KHRU	OS	-	G	Sat LEO 00 3	www.cosmoworld.ru	-	-
2002-039	2452508.72	2002 Aug 22 0515:00	Proton-K/DM-2M	DM3	406-02	4.685	ILSK	OS	-	CO	Sat GTO SO	NK0210-19	-	-
2002-048	2452564.70	2002 Oct 17 0441:00	Proton-K/17S40	DM2	409-01	4.754	KHRU	OS	-	G	Sat DSO 00 3	NK0212-40	-	-
2002-053	2452604.46	2002 Nov 25 2304:23	Proton-K/DM-2M	DM3	408-02	6.050	ILSK	OF40	S4R	CO	Sat GTO SO	NK0301-50	-	Restart failed
2002-060	2452633.82	2002 Dec 25 0737:58	Proton-K/DM-2	-	409-02	4.462	KHRU	OS	-	G	Sat MEO 00 3	NK0301-40	-	-
2002-062	2452638.47	2002 Dec 29 2316:40	Proton-M/Briz-M	-	535-02/88504	4.600	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2003-015	2452753.68	2003 Apr 24 0423:17	Proton-K/DM-2	-	410-02	3.112	KHRU	OS	-	G	Sat GEO 00 3	NK0306-40	www.tsenki.com	-
2003-024	2452797.43	2003 Jun 6 2215:15	Proton-K/Briz-M	-	410-01/88505	5.000	ILSK	OS	-	CO	Sat GTO SO 1	NK0308-29	-	-
2003-053	2452967.77	2003 Nov 24 0622:00	Proton-K/DM-2M	DM-2M	407-02	3.589	KHRU	OS	-	G	Sat GEO 00 3	NK0401-19	-	-
2003-056	2452984.24	2003 Dec 10 1742:12	Proton-K/Briz-M	-	410-03/88506	5.245	KHRU	OS	-	G	Sat MEO 0 1	NK0402-17	-	-
2003-060	2453002.46	2003 Dec 28 2300:00	Proton-K/DM-2M	DM-2M	410-04	3.454	KHRU	OS	-	G	Sat GEO 00 3	NK0402-26	-	-
2004-008	2453080.46	2004 Mar 15 2306:00	Proton-M/Briz-M	-	535-03/88507	5.300	ILSK	OS	-	CO	Sat GTO SO 1	NK0405-23	-	-
2004-010	2453091.65	2004 Mar 27 0330:00	Proton-K/DM-2	-	410-05	3.412	KHRU	OS	-	G	Sat GEO 00 3	NK0405-28	-	-
2004-015	2453122.36	2004 Apr 26 2037:00	Proton-K/DM-2M	DM-2M	410-06	3.455	KHRU	OS	-	G	Sat GEO 00 3	NK0406-34	-	-
2004-022	2453173.44	2004 Jun 16 2227:00	Proton-M/Briz-M	-	535-06/88509	6.575	ILSK	OS	-	CO	Sat GTO SO 1	NK0408-27	-	-
2004-031	2453222.44	2004 Aug 4 2232:00	Proton-M/Briz-M	-	535-07/88508	5.540	ILSK	OS	-	CO	Sat GTO SO 1	NK0410-25	-	-
2004-041	2453293.39	2004 Oct 14 2123:00	Proton-M/Briz-M	-	535-08/88510	5.021	ILSK	OS	-	CO	Sat GTO SO 1	NK0412-32	-	-
2004-043	2453308.42	2004 Oct 29 2211:00	Proton-K/DM-2M	DM-2M	410-08	3.454	KHRU	OS	-	G	Sat GEO 00 3	NK0412-37	-	-
2004-053	2453366.08	2004 Dec 26 1353:31	Proton-K/DM-2	-	410-09	5.262	KHRU	OS	-	G	Sat MEO 00 3	glonass-center.ru	-	-
2005-003	2453404.60	2005 Feb 3 0227:32	Proton-M/Briz-M	-	535-09/88511	5.974	ILSK	OS	-	CO	Sat GTO SO 1	NK0504-06	-	-
2005-010	2453459.40	2005 Mar 29 2131:00	Proton-K/DM-2M	DM-2M	410-10	3.463	KHRU	OS	-	G	Sat GEO 00 3	NK0505-11	-	-
2005-019	2453513.25	2005 May 22 1759:08	Proton-M/Briz-M	-	535-10/88512	4.711	ILSK	OS	-	CO	Sat GTO SO 1	NK0507-17	-	-
2005-023	2453546.32	2005 Jun 24 1941:00	Proton-K/DM-2	-	410-07	3.467	KHRU	OS	-	G	Sat GEO 00 3	NK0508-09	-	-
2005-036	2453622.41	2005 Sep 8 2153:40	Proton-M/Briz-M	-	535-12/88513	5.500	ILSK	OS	-	CO	Sat GTO SO 1	NK0511-06	-	-
2005-050	2453729.71	2005 Dec 25 0507:10	Proton-K/DM-2	-	410-11	4.462	KHRU	OS	-	G	Sat MEO 00 3	NK0602-32	-	-
2005-052	2453733.60	2005 Dec 29 0228:40	Proton-M/Briz-M	-	535-13/88514	6.035	ILSK	OS	-	CO	Sat GTO SO 1	NK0602-38	-	-
2006-006	2453795.34	2006 Feb 28 2010:00	Proton-M/Briz-M	-	535-11/88515	3.341	ILSK	OF40	S4P2	CO	Sat GTO SO 1	NK0604-10	-	Early shutdown
2006-022	2453904.45	2006 Jun 17 2244:05	Proton-K/DM-2M	DM3	410-12	1.892	KHRU	OS	-	G	Sat GEO 00 1	NK0608-06	-	-
2006-032	2453952.41	2006 Aug 4 2148:00	Proton-M/Briz-M	-	535-14/88516	5.875	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2006-051	2454048.33	2006 Nov 8 2001:00	Proton-M/Briz-M	-	535-15/88517	4.304	ILSK	OS	-	CO	Sat GTO SO 1	NK0701-10	-	-
2006-056	2454081.48	2006 Dec 11 2328:43	Proton-M/Briz-M	-	535-21/88518	5.765	ILSK	OS	-	CO	Sat GTO SO 1	NK0702-26	-	-
2006-062	2454095.35	2006 Dec 25 2018:12	Proton-K/DM-2	-	410-15	5.262	KHRU	OS	-	G	Sat MEO 00 3	NK0702-44	-	-
2007-009	2454200.45	2007 Apr 9 2254:00	Proton-M/Briz-M	-	535-16/88521	5.640	ILSK	OS	-	CO	Sat GTO SO 1	wire	-	-
2007-032	2454288.55	2007 Jul 7 0116:00	Proton-M/Briz-M	-	535-20/88520	6.893	ILSK	OS	-	CO	Sat GTO SO 1	NK0709-19	-	-
2007-F03	2454349.45	2007 Sep 5 2243:10	Proton-M/Briz-M	-	535-22/88522	5.007	ILSK	OF	S1S	CO	Sat GTO SO 1	NK0711-16	-	Sep failure
2007-052	2454399.82	2007 Oct 26 0735:24	Proton-K/DM-2	-	410-17	5.262	KHRU	OS	-	G	Sat MEO 00 3	wire	-	-
2007-057	2454422.44	2007 Nov 17 2239:47	Proton-M/Briz-M	-	535-23/88523	5.385	ILSK	OS	-	CO	Sat GTO SO 1	NK0801-26	-	-
2007-058	2454443.51	2007 Dec 9 0016:00	Proton-M/Briz-M	-	535-26/88526	3.600	KHRU	OS	-	G	Sat GEO SO 1	NK0802-25	-	-
2007-065	2454460.31	2007 Dec 25 1932:34	Proton-M/DM-2	-	535-28	5.262	KHRU	OS	-	G	Sat MEO 00 3	wire	-	-
2008-003	2454493.51	2008 Jan 28 0018:00	Proton-M/Briz-M	-	535-27/88530	3.579	KHRU	OS	-	G	Sat GEO SO 1	NK0803-35	-	-
2008-006	2454507.98	2008 Feb 11 1134:00	Proton-M/Briz-M	-	535-24/88524	3.012	ILSK	OS	-	CO	Sat GEO SO 1	NK0804-36	-	-
2008-011	2454540.47	2008 Mar 14 2318:55	Proton-M/Briz-M	-	535-25/88525	4.140	ILSK	OF40	S4P2	CO	Sat GTO SO 1	NK0805-37	-	Early shutdown
2008-033	2454644.50	2008 Jun 26 2359:43	Proton-K/DM-2	-	410-14/111L	3.512	KHRU	OS	-	G	Sat GEO 00 3	NK0808-50	-	-
2008-039	2454697.45	2008 Aug 18 2243:00	Proton-M/Briz-M	-	935-02/99502	6.958	ILSK	OS	-	CO	Sat GTO SO 1	NK0810-30	-	-
2008-044	2454729.41	2008 Sep 19 2148:00	Proton-M/Briz-M	-	535-29/88528	5.850	ILSK	OS	-	CO	Sat GTO SO 1	NK0811-33	-	-
2008-046	2454734.87	2008 Sep 25 0849:37	Proton-M/DM-2	-	535-31/112L	5.262	KHRU	OS	-	G	Sat MEO 00 3	NK0811-35	-	-
2008-057	2454776.36	2008 Nov 5 2044:20	Proton-M/Briz-M	-	535-33/88531	6.345	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2008-063	2454811.07	2008 Dec 10 1343:00	Proton-M/Briz-M	-	935-03/99503	6.625	ILSK	OS	-	CO	Sat GTO SO 1	NK0902-35	-	-
2008-067	2454825.95	2008 Dec 25 1043:42	Proton-M/DM-2	-	535-34/114L	5.262	KHRU	OS	-	G	Sat MEO 00 3	NK0902-39	-	-
2009-007	2454873.50	2009 Feb 11 0003:00	Proton-M/Briz-M	-	935-01/99501	4.672	KHRU	OS	-	G	Sat GEO SO 1	NK0904-23	-	-
2009-010	2454890.67	2009 Feb 28 0410:00	Proton-K/DM-2	-	410-16/107L	3.232	KHRU	OS	-	G	Sat GEO 00 3	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-016	2454925.18	2009 Apr 3 1624:00	Proton-M/Briz-M	-	935-04/99504	6.922	ILSK	OS	-	CO	Sat GTO SO 1	NK0906-18	-	-
2009-027	2454967.54	2009 May 16 0057:38	Proton-M/Briz-M	-	935-05/99505	4.905	ILSK	OS	-	CO	Sat GTO SO 1	NK0907-40	-	-
2009-034	2455013.30	2009 Jun 30 1910:00	Proton-M/Briz-M	-	935-06/99506	6.820	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-042	2455055.32	2009 Aug 11 1947:33	Proton-M/Briz-M	-	935-07/99507	4.760	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2009-050	2455092.31	2009 Sep 17 1919:19	Proton-M/Briz-M	-	935-08/99508	5.745	ILSK	OS	-	CO	Sat GTO SO 1	NK0911-41	-	-
2009-065	2455160.10	2009 Nov 24 1419:10	Proton-M/Briz-M	-	935-09/99509	6.627	ILSK	OS	-	CO	Sat GTO SO 1	NK1001-35	-	-
2009-070	2455179.94	2009 Dec 14 1038:27	Proton-M/DM-2	-	535-38/115L	5.262	KHRU	OS	-	G	Sat MEO OO 3	Wire	-	-
2009-075	2455194.52	2009 Dec 29 0022:00	Proton-M/Briz-M	-	935-10/99510	6.900	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-002	2455224.51	2010 Jan 28 0018:00	Proton-M/Briz-M	-	535-35/88527	3.750	KHRU	OS	-	G	Sat GEO SO 1	NK1003-12	-	-
2010-006	2455239.53	2010 Feb 12 0039:40	Proton-M/Briz-M	-	535-32/99511	3.056	ILSK	OS	-	CO	Sat GEO SO 1	Wire	-	-
2010-007	2455257.39	2010 Mar 1 2119:44	Proton-M/DM-2	-	535-40/116L	5.262	KHRU	OS	-	G	Sat MEO OO 3	NK1005-15	-	-
2010-010	2455276.27	2010 Mar 20 1826:57	Proton-M/Briz-M	-	935-14/99514	7.379	ILSK	OS	-	CO	Sat GTO SO 1	NK1005-21	-	-
2010-016	2455310.97	2010 Apr 24 1119:00	Proton-M/Briz-M	-	935-11/99512	3.561	ILSK	OS	-	CO	Sat GTO SO 1	NK1006-51	-	-
2010-025	2455351.42	2010 Jun 3 2200:08	Proton-M/Briz-M	-	935-12/99513	6.420	ILSK	OS	-	CO	Sat GTO SO 1	NK1008-22	-	-
2010-034	2455388.28	2010 Jul 10 1840:36	Proton-M/Briz-M	-	935-15/99515	6.521	ILSK	OS	-	CO	Sat GTO SO 1	Wire	-	-
2010-041	2455441.54	2010 Sep 2 0053:50	Proton-M/DM-2	-	535-30/118L	5.262	KHRU	OS	-	G	Sat MEO OO 3	NK1011-18	-	-
2010-053	2455484.29	2010 Oct 14 1853:21	Proton-M/Briz-M	-	935-16/99517	6.984	ILSK	OS	-	CO	Sat GTO SO 1	NK1012-28	-	-
2010-061	2455515.23	2010 Nov 14 1729:20	Proton-M/Briz-M	-	935-13/99516	6.360	ILSK	OS	-	CO	Sat GTO SO 1	NK1101-26	-	-
2010-F03	2455535.93	2010 Dec 5 1025:19	Proton-M/DM-3	-	535-37/01L	5.332	KHRU	OF	S3U	G	Sat MEO OO 3	nasaspaceflight.com	NK1102-30	Too much LOX loaded in S4
2010-069	2455557.41	2010 Dec 26 2151:00	Proton-M/Briz-M	-	935-17/99518	6.800	ILSK	OS	-	CO	Sat GTO SO 1	NK1103-37	-	-
2011-021	2455702.30	2011 May 20 1915:19	Proton-M/Briz-M	-	935-19/99520	5.970	ILSK	OS	-	CO	Sat GTO SO 1	NK1107-35	-	-
2011-035	2455758.47	2011 Jul 15 2316:10	Proton-M/Briz-M	-	935-18/99519	5.442	ILSK	OS	-	CO	Sat GTO SO 2	NK1109-34	-	-
2011-045	2455791.39	2011 Aug 17 2125:01	Proton-M/Briz-M	-	935-21/99522	6.700	KHRU	OF40	S4G	G	Sat GTO SO 1	coopi.krunichev.ru	or 935-25/99524	Gyro software error
2011-048	2455825.45	2011 Sep 20 2247:00	Proton-M/Briz-M	-	535-42/88529	3.500	KHRU	OS	-	G	Sat GEO SO 1	NK1111-34	-	-
2011-054	2455834.27	2011 Sep 29 1832:00	Proton-M/Briz-M	-	935-22/99524	6.514	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1111-43	-
2011-059	2455854.28	2011 Oct 19 1848:58	Proton-M/Briz-M	-	935-20/99521	7.740	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2011-064	2455870.04	2011 Nov 4 1251:41	Proton-M/Briz-M	-	535-39/99523	5.350	KHRU	OS	-	G	Sat MEO SO 1	Wire	-	-
2011-069	2455891.30	2011 Nov 25 1910:34	Proton-M/Briz-M	-	935-25/99527	4.813	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2011-074	2455906.97	2011 Dec 11 1117:00	Proton-M/Briz-M	-	935-23/99525	4.075	KHRU	OS	-	G/G+C	Sat GEO SO 1	NK1202-21	-	-
2012-007	2455972.32	2012 Feb 14 1936:37	Proton-M/Briz-M	-	935-24/99526	7.180	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1204-35	-
2012-011	2456012.01	2012 Mar 25 1210:32	Proton-M/Briz-M	-	935-28/99537	7.249	ILSK	OS	-	CO	Sat STO SO 1	coopi.krunichev.ru	NK1205-20	-
2012-012	2456016.74	2012 Mar 30 0549:32	Proton-K/DM-2	-	410-18/117L	3.492	KHRU	OS	-	G	Sat GEO OO 3	NK1205-24	-	-
2012-016	2456041.43	2012 Apr 23 2218:13	Proton-M/Briz-M	-	935-27/99529	7.050	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2012-026	2456065.30	2012 May 17 1912:14	Proton-M/Briz-M	-	935-29/99530	5.745	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2012-036	2456118.28	2012 Jul 9 1838:30	Proton-M/Briz-M	-	935-30/99531	7.007	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2012-044	2456146.31	2012 Aug 6 1931:00	Proton-M/Briz-M	-	935-31/99532	4.093	KHRU	OF40	S4P3	G/G+C	Sat GTO SO 1	coopi.krunichev.ru	NK1210-38	Early shutdown
2012-057	2456214.86	2012 Oct 14 0837:00	Proton-M/Briz-M	-	935-26/99534	4.200	ILSK	OS	-	CO	Sat GEO SO 1	coopi.krunichev.ru	-	-
2012-061	2456234.38	2012 Nov 2 2104:00	Proton-M/Briz-M	-	935-32/99533	3.922	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	NK1301-18	-
2012-065	2456252.27	2012 Nov 20 1831:00	Proton-M/Briz-M	-	935-33/99528	7.650	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	-
2012-070	2456270.05	2012 Dec 8 1313:43	Proton-M/Briz-M	-	935-34/99535	5.463	ILSK	OF50	S4P4	CO/G	Sat GTO SO 1	coopi.krunichev.ru	-	Turbopump failed
2013-012	2456378.30	2013 Mar 26 1906:48	Proton-M/Briz-M	-	935-36/99536	6.474	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1305-30	-
2013-014	2456398.27	2013 Apr 15 1836:00	Proton-M/Briz-M	-	935-37/99538	5.905	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1306-26	-
2013-022	2456427.17	2013 May 14 1602:00	Proton-M/Briz-M	-	935-38/99539	6.470	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	-	or 99538?
2013-026	2456446.89	2013 Jun 3 0918:31	Proton-M/Briz-M	-	935-40/99541	7.140	ILSK	OS	-	CO	Sat STO SO 1	coopi.krunichev.ru	-	-
2013-F02	2456475.61	2013 Jul 2 0238:22	Proton-M/DM-3	-	535-43/2L	5.332	KHRU	OF	S1G	G	Sat MEO OO 1	nasaspaceflight.com	NK1309-20	Ang.vel sensors upside down
2013-056	2456565.40	2013 Sep 29 2138:10	Proton-M/Briz-M	-	935-39/99540	7.052	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1311-62	-
2013-058	2456591.26	2013 Oct 25 1808:54	Proton-M/Briz-M	-	935-35/99542	4.800	ILSK	OS	-	CO	Sat GTO SO 1	coopi.krunichev.ru	NK1312-24	-
2013-062	2456608.49	2013 Nov 11 2346:00	Proton-M/Briz-M	-	535-41/88532	3.500	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	NK1401-34	-
2013-073	2456635.01	2013 Dec 8 1212:00	Proton-M/Briz-M	-	935-44/99546	7.090	ILSK	OS	-	CO	Sat STO SO 1	coopi.krunichev.ru	NK1402-44	-
2013-077	2456652.95	2013 Dec 26 1049:56	Proton-M/Briz-M	-	935-41/99543	4.200	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2014-007	2456703.38	2014 Feb 14 2109:03	Proton-M/Briz-M	-	935-43/99544	5.850	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	NK1404-28	-
2014-010	2456732.46	2014 Mar 15 2308:00	Proton-M/Briz-M	-	935-42/99545	3.998	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	NK1405-32	-
2014-023	2456775.68	2014 Apr 28 0425:00	Proton-M/Briz-M	-	935-46/99548	3.914	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	NK1406-51	-
2014-F01	2456793.40	2014 May 15 2142:00	Proton-M/Briz-M	-	935-45/99547	6.745	KHRU	OF	S3P	G	Sat GEO SO 1	nasaspaceflight.com	NK1407-28	Turbopump failed
2014-058	2456928.35	2014 Sep 27 2023:00	Proton-M/Briz-M	-	935-47/99549	2.930	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2014-064	2456952.13	2014 Oct 21 1509:32	Proton-M/Briz-M	-	935-48/99550	4.361	KHRU	OS80	S4P4	G	Sat GEO SO 1	nasaspaceflight.com	-	Underburn
2014-082	2457006.51	2014 Dec 15 0016:00	Proton-M/Briz-M	-	935-50/99551	3.976	ILSK	OS	-	CO/G	Sat GEO SO 1	nasaspaceflight.com	-	-
2014-089	2457019.40	2014 Dec 27 2137:49	Proton-M/Briz-M	-	935-49/99552	7.002	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	NK1502-44	-
2015-005	2457055.02	2015 Feb 1 1231:00	Proton-M/Briz-M	-	935-51/99554	7.070	ILSK	OS	-	CO	Sat STO SO 1	nasaspaceflight.com	NK1504-19	-
2015-012	2457100.42	2015 Mar 18 2205:00	Proton-M/Briz-M	-	935-52/99553	6.712	KHRU	OS	-	G	Sat GTO SO 1	nasaspaceflight.com	-	-
2015-F01	2457158.74	2015 May 16 0547:39	Proton-M/Briz-M	-	935-54/99555	6.325	ILSK	OF	S3P	CO	Sat GTO SO 1	nasaspaceflight.com	-	Turbopump failed
2015-042	2457262.99	2015 Aug 28 1144:00	Proton-M/Briz-M	-	935-55/99556	7.070	ILSK	OS	-	CO	Sat STO SO 1	nasaspaceflight.com	NK1510-46	-
2015-048	2457280.29	2015 Sep 14 1900:00	Proton-M/DM-3	-	935-53/5L	3.145	KHRU	OS	-	G	Sat GEO SO	nasaspaceflight.com	-	-
2015-060	2457312.36	2015 Oct 16 2040:11	Proton-M/Briz-M	-	935-56/99557	5.928	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	-	-
2015-075	2457369.51	2015 Dec 13 0019:00	Proton-M/Briz-M	-	535-44/88533	3.500	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	NK1602-46	-
2015-082	2457381.40	2015 Dec 24 2131:19	Proton-M/Briz-M	-	935-57/99559	6.700	KHRU	OS	-	G	Sat GTO SO 1	nasaspaceflight.com	NK1602-67	-
2016-005	2457417.43	2016 Jan 29 2220:09	Proton-M/Briz-M	-	935-58/99558	6.162	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	-	-
2016-017	2457461.90	2016 Mar 14 0931:42	Proton-M/Briz-M	-	935-60/99560	5.932	KHRU	DS	-	G/OG	Sat EEO SE 1	nasaspaceflight.com	-	-
2016-035	2457548.80	2016 Jun 9 0710:00	Proton-M/Briz-M	-	937-01/99570	7.450	ILSK	OS	-	CO	Sat STO SO 1	nasaspaceflight.com	NK1608-20	-
2017-032	2457912.66	2017 Jun 8 0345:47	Proton-M/Briz-M	-	935-61/99571	7.871	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	-	-
2017-046	2457982.42	2017 Aug 16 2207:00	Proton-M/Briz-M	-	935-59/99562	4.162	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2017-053	2458008.31	2017 Sep 11 1923:41	Proton-M/Briz-M	-	935-65/99561	6.900	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	-	-
2017-057	2458025.29	2017 Sep 28 1852:16	Proton-M/Briz-M	-	937-02/99572	7.141	ILSK	OS	-	CO	Sat GTO SO 1	nasaspaceflight.com	-	-
2018-037	2458227.42	2018 Apr 18 2212:00	Proton-M/Briz-M	-	935-62/99563	4.162	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2018-107	2458473.51	2018 Dec 21 0020:00	Proton-M/Briz-M	-	935-63/99565	4.162	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2019-031	2458634.24	2019 May 30 1742:00	Proton-M/Briz-M	-	935-69/99564	4.162	KHRU	OS	-	G	Sat GTO SO 1	nasaspaceflight.com	-	-
2019-040	2458678.02	2019 Jul 13 1230:57	Proton-M/DM-3	-	535-47/4L	3.582	KHRU	OS	-	G	Sat EEO SE	nasaspaceflight.com	-	-
2019-048	2458701.41	2019 Aug 5 2156:00	Proton-M/Briz-M	-	935-64/99566	4.162	KHRU	OS	-	G	Sat GEO SO 1	nasaspaceflight.com	-	-
2019-067	2458765.93	2019 Oct 9 1017:56	Proton-M/Briz-M	-	937-04/99573	6.190	ILSK	OS	-	CO	Sat STO SO 1	nasaspaceflight.com	-	-
2019-095	2458842.00	2019 Dec 24 1203:02	Proton-M/DM-3	-	935-66/3L	3.265	KHRU	OS	-	G	Sat GEO SO	nasaspaceflight.com	-	-
2020-053	2459061.39	2020 Jul 30 2125:19	Proton-M/Briz-M	-	935-67/99568	5.390	KHRU	OS	-	G	Sat STO SO 1	nasaspaceflight.com	-	-
2021-066	2459417.12	2021 Jul 21 1458:25	Proton-M	-	535-45	20.317	KHRU	OS	-	G	Sat ISS O	nasaspaceflight.com	-	-
2021-123	2459562.00	2021 Dec 13 1207:00	Proton-M/Briz-M	-	535-46/88536	5.130	KHRU	OS80	S4P5	G	Sat STO SO 1	nasaspaceflight.com	-	Underburn
2022-131	2459865.12	2022 Oct 12 1500	Proton-M/DM-3	-	935-71/6L	3.132	KHRU	OS	-	G/OG	Sat GEO SO	nasaspaceflight.com	-	-
2023-016	2459980.88	2023 Feb 5 0912:52	Proton-M/DM-3	-	935-68/7L	3.265	KHRU	OS	-	G	Sat GEO SO	nasaspaceflight.com	-	-
2023-031	2460016.47	2023 Mar 12 2313:00	Proton-M/Briz-M	-	935-72/99569	2.930	KHRU	OS	-	G	Sat GEO SO	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S116	2459888.50	2022 Nov 5	Qaem-100	-	FTM-B1	Test	-	-	-	SHAHR	-	-	-	200?	-	Arabian Sea
2023-F10	2460007.50	2023 Mar 4	Qaem-100	-	-	Nahid-1	-	-	-	SHAHR	-	-	-	200?	-	Arabian Sea?
2024-015	2460329.77	2024 Jan 20 0628:34	Qaem-100	-	FTM-B2	Suraya	-	-	-	SHAHR	-	-	-	-	-	-
2024-165	2460567.75	2024 Sep 14 0600?	Qaem-100	-	OM-B2	Chamran-1	-	-	-	SHAHR	-	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S116	2459888.50	2022 Nov 5	Qaem-100	-	FTM-B1	0.000	IRGC	TS	-	-	Test	Wire	-	-
2023-F10	2460007.50	2023 Mar 4	Qaem-100	-	-	0.050	IRGC	OF	U	G	Sat LEO O	Wire	-	Unkown failure mode
2024-015	2460329.77	2024 Jan 20 0628:34	Qaem-100	-	FTM-B2	0.050	IRGC	OS	-	G	Sat LEO O	Wire	-	-
2024-165	2460567.75	2024 Sep 14 0600?	Qaem-100	-	OM-B2	0.060	IRGC	OS	-	G	Sat LEO O	TLE	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-S11	2434485.50	1953 Apr 18	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S14	2434495.50	1953 Apr 28	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S71	2434506.50	1953 May 9	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S72	2434514.50	1953 May 17	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S73	2434519.50	1953 May 22	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S74	2434523.50	1953 May 26	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S75	2434524.50	1953 May 27	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S76	2434525.50	1953 May 28	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S77	2434527.50	1953 May 30	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1953-S21	2434531.50	1953 Jun 3	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S09	2434852.50	1954 Apr 20	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S14	2434854.50	1954 Apr 22	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S89	2434856.50	1954 Apr 24	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S90	2434859.50	1954 Apr 27	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S91	2434866.50	1954 May 4	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S92	2434867.50	1954 May 5	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S93	2434868.50	1954 May 6	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S94	2434870.50	1954 May 8	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S95	2434874.50	1954 May 12	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S30	2434875.50	1954 May 13	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S71	2435011.50	1954 Sep 26	R-11FM	-	-	-	-	-	-	GTsP-4	SM-49	-	-	150?	-	-
1954-S72	2435015.50	1954 Oct	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1954-S78	2435035.50	1954 Oct 20	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1954-S83	2435107.50	1954 Dec 31	R-11	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S01	2435119.50	1955 Jan 12	R-11	-	K3-3	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S111	2435121.50	1955 Jan 14	R-11	-	K3-4	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S112	2435128.50	1955 Jan 21	R-11	-	K3-6	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S113	2435128.50	1955 Jan 21	R-11	-	K3-5	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S10	2435135.50	1955 Jan 28	R-11	-	K3-14	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-A667	2435140.50	1955 Feb 2	R-11	-	K3-10	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1955-S125	2435148.50	1955 Feb 10	R-11	-	K3-9	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S126	2435149.50	1955 Feb 11	R-11	-	K3-8	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S127	2435153.50	1955 Feb 15	R-11	-	S3-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S128	2435155.50	1955 Feb 17	R-11	-	S3-15	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S129	2435155.50	1955 Feb 17	R-11	-	S3-7	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S130	2435157.50	1955 Feb 19	R-11	-	S3-13	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S131	2435159.50	1955 Feb 21	R-11	-	S3-16	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S132	2435160.50	1955 Feb 22	R-11	-	S3-11	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1955-S38	2435248.50	1955 May 21	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S33	2435227.50	1955 May?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S34	2435227.50	1955 May?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S35	2435227.50	1955 May?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S40	2435258.50	1955 Jun?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S41	2435258.50	1955 Jun?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S42	2435258.50	1955 Jun?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S50	2435288.50	1955 Jul?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S51	2435288.50	1955 Jul?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S52	2435288.50	1955 Jul?	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S60	2435318.50	1955 Jul 30	R-11FM	-	-	-	-	-	-	GTsP-4?	-	-	-	150?	-	-
1955-S71	2435363.11	1955 Sep 12 1432	R-11FM	-	-	-	-	-	B-67	BELA	-	-	-	150?	-	-
1955-S109	2435471.50	1955 Dec 30	R-11M	-	S1-5	LKI 1A	-	-	-	GTsP-4	-	-	-	10?	-	-
1956-S01	2435481.50	1956 Jan 9	R-11M	-	S1-6	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A363	2435483.50	1956 Jan 11	R-11M	-	S1-7	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A364	2435486.50	1956 Jan 14	R-11M	-	S1-8	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-S06	2435491.50	1956 Jan 19	R-11M	-	S1-1	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-S115	2435501.50	1956 Jan 29	R-11	-	S1-1	Production launch	-	-	-	GTsP-4	-	-	-	150?	-	-
1956-S116	2435503.50	1956 Jan 31	R-11	-	S1-3	Production launch	-	-	-	GTsP-4	-	-	-	150?	-	-
1956-A365	2435509.50	1956 Feb 6	R-11M	-	S1-19	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A366	2435511.50	1956 Feb 8	R-11M	-	S1-11	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A367	2435512.50	1956 Feb 9	R-11M	-	S1-12	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A368	2435514.50	1956 Feb 11	R-11M	-	S1-2	LKI 1A	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-S119	2435528.50	1956 Feb 25	R-11M	-	S1-3	LKI 1A	-	-	-	GTsP-4	-	-	-	80?	-	-
1956-S120	2435528.50	1956 Feb 25	R-11M	-	S1-4	LKI 1A	-	-	-	GTsP-4	-	-	-	80?	-	-
1956-S121	2435530.50	1956 Feb 27	R-11M	-	S1-9	LKI 1A	-	-	-	GTsP-4	-	-	-	80?	-	-
1956-A369	2435583.50	1956 Apr 20	R-11	-	A1-1	Production launch	-	-	-	GTsP-4	-	-	-	10?	-	-
1956-A370	2435652.50	1956 Jun 28	R-11	-	A1-5	Production launch	-	-	-	GTsP-4	-	-	-	30?	-	-
1956-A371	2435713.50	1956 Aug 28	R-11M	-	A1-13	LKI 1B	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-A372	2435729.50	1956 Sep 13	R-11M	-	A1-16	LKI 1B	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-S141	2435729.50	1956 Sep 13	R-11M	-	A1-6	LKI 1B	-	-	-	GTsP-4	-	-	-	80?	-	-
1956-A373	2435736.50	1956 Sep 20	R-11M	-	A1-17	LKI 1B	-	-	-	GTsP-4	-	-	-	40?	-	-
1956-S91	2435777.50	1956 Oct 31	R-11FM	-	-	-	-	-	B-67	BELA?	-	-	-	150?	-	-
1956-S92	2435777.50	1956 Oct 31	R-11FM	-	-	-	-	-	B-67	BELA?	-	-	-	150?	-	-
1956-S112	2435833.50	1956 Dec 26	R-11FM	-	-	-	-	-	B-67?	BELA?	-	-	-	150?	-	-
1957-S186	2435842.50	1957 Jan 4	R-11	-	A1-4T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1957-S187	2435863.50	1957 Jan 25	R-11	-	A1-2	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S188	2435870.50	1957 Feb 1	R-11	-	A1-7	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S189	2435871.50	1957 Feb 2	R-11	-	A1-1	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S190	2435875.50	1957 Feb 6	R-11	-	A1-4	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S192	2435889.50	1957 Feb 20	R-11	-	A2-1	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S193	2435889.50	1957 Feb 20	R-11	-	A1-20	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S19	2435922.50	1957 Mar 25	R-11M	-	M1-21	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S22	2435924.50	1957 Mar 27	R-11M	-	M1-24	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S23	2435931.50	1957 Apr 3	R-11M	-	M1-23	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-A158	2435937.50	1957 Apr 9	R-11M	-	M1-25	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-A159	2435939.50	1957 Apr 11	R-11M	-	M1-22	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-S77	2436071.50	1957 Aug 21	R-11	-	M684	ZI	-	-	-	GTsP-4	-	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S227	2436072.50	1957 Aug 22	R-11	-	M686	ZI	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S69	2436073.50	1957 Aug 23	R-11M	-	M1-26	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S228	2436073.50	1957 Aug 23	R-11	-	M581	ZI	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S229	2436073.50	1957 Aug 23	R-11	-	M583	ZI	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S230	2436076.50	1957 Aug 26	R-11M	-	M1-28	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S231	2436077.50	1957 Aug 27	R-11M	-	M1-29	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S232	2436078.50	1957 Aug 28	R-11M	-	M1-20	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S233	2436080.50	1957 Aug 30	R-11M	-	M1-10	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S234	2436082.50	1957 Sep 1	R-11M	-	M1-27	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S105	2436083.50	1957 Sep 2	R-11M	-	M1-30	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1957-S269	2436108.50	1957 Sep 27	R-11	-	M689	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S270	2436108.50	1957 Sep 27	R-11	-	M681	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S271	2436117.50	1957 Oct 6	R-11	-	M6816	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S272	2436160.50	1957 Nov 18	R-11	-	M6812	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S273	2436162.50	1957 Nov 20	R-11	-	M68688	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S274	2436168.50	1957 Nov 26	R-11	-	M6814	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S275	2436169.50	1957 Nov 27	R-11	-	M6811	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S276	2436171.50	1957 Nov 29	R-11	-	M6817	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-A163	2436183.50	1957 Dec 11	R-11	-	M6815	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-A164	2436183.50	1957 Dec 11	R-11	-	M6818	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-A165	2436184.50	1957 Dec 12	R-11	-	M6813	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-S277	2436188.50	1957 Dec 16	R-11	-	M2-2	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S278	2436188.50	1957 Dec 16	R-11	-	M2-25	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S279	2436198.50	1957 Dec 26	R-11	-	M3-25T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S280	2436200.50	1957 Dec 28	R-11	-	M3-9	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S281	2436203.50	1957 Dec 31	R-11	-	M4-4T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1957-S282	2436203.50	1957 Dec 31	R-11	-	M4-6	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S311	2436270.50	1958 Mar 8	R-11	-	B1-19	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S50	2436293.50	1958 Mar 31	R-11FM	-	-	-	-	-	B-67?	BELA?	-	-	-	86?	-	-
1958-S72	2436348.50	1958 May 25	R-11FM	-	-	-	-	-	B-67?	BELA?	-	-	-	86?	-	-
1958-S73	2436349.50	1958 May 26	R-11FM	-	-	-	-	-	B-67?	BELA?	-	-	-	86?	-	-
1958-S329	2436354.50	1958 May 31	R-11	-	B2-3	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S330	2436354.50	1958 May 31	R-11	-	B2-67	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S334	2436392.50	1958 Jul 8	R-11	-	M2-12	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S356	2436415.50	1958 Jul 31	R-11	-	M2-21	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S359	2436416.50	1958 Aug 1	R-11	-	M2-7	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S360	2436421.50	1958 Aug 6	R-11	-	M2-22	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S353	2436447.50	1958 Sep 1	R-11	-	B2-23	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S193	2436452.50	1958 Sep 6	R-11FM	-	-	-	-	-	B-62	POLA58	-	-	-	86?	-	-
1958-S354	2436454.50	1958 Sep 8	R-11	-	M2-9	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-A216	2436454.50	1958 Sep 8	R-11	-	M2-24	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1958-S355	2436464.50	1958 Sep 18	R-11	-	B2-8	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S357	2436464.50	1958 Sep 18	R-11	-	B2-2	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S358	2436469.50	1958 Sep 23	R-11	-	B2-4	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S365	2436476.50	1958 Sep 30	R-11	-	B2-11	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S213	2436481.08	1958 Oct 4 1400	R-11A	-	1-2	-	-	-	-	GTsP-4	-	-	-	98	-	-
1958-S367	2436481.50	1958 Oct 5	R-11M	-	B1-6T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S368	2436484.50	1958 Oct 8	R-11M	-	B1-11	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S217	2436487.08	1958 Oct 10 1350	R-11A	-	1-1	-	-	-	-	GTsP-4	-	-	-	103	-	-
1958-S369	2436506.50	1958 Oct 30	R-11M	-	B2-3	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S370	2436507.50	1958 Oct 31	R-11M	-	B2-9T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S239	2436507.50	1958 Oct 31	R-11A	-	1-3?	First R-11A at NZ	-	-	-	NZEM	-	-	-	103	-	-
1958-S252	2436513.50	1958 Nov 6	R-11A	-	1-4?	-	-	-	-	NZEM	-	-	-	103	-	-
1958-S261	2436526.50	1958 Nov 19	R-11A	-	1-5?	-	-	-	-	NZEM	-	-	-	103	-	-
1958-S374	2436528.50	1958 Nov 21	R-11M	-	B3-11	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S375	2436535.50	1958 Nov 28	R-11M	-	B1-3	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S376	2436539.50	1958 Dec 2	R-11M	-	B3-6T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S293	2436561.04	1958 Dec 23 1300	R-11A	-	1-6	-	-	-	-	GTsP-4	-	-	-	101	-	-
1958-S297	2436563.05	1958 Dec 25 1310	R-11A	-	1-7	-	-	-	-	GTsP-4	-	-	-	102	-	-
1958-S378	2436564.50	1958 Dec 27	R-11	-	B1-8T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1958-S379	2436567.50	1958 Dec 30	R-11M	-	B4-10	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1958-S380	2436567.50	1958 Dec 30	R-11M	-	B4-2T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S293	2436580.50	1959 Jan 12	R-11	-	B1-18T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S294	2436581.50	1959 Jan 13	R-11	-	B1-2	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S295	2436581.50	1959 Jan 13	R-11	-	B1-15	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S298	2436597.50	1959 Jan 29	R-11M	-	B6897	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S299	2436597.50	1959 Jan 29	R-11	-	M3-17	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S300	2436598.50	1959 Jan 30	R-11M	-	B681	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S303	2436631.50	1959 Mar 4	R-11	-	M3-19	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S304	2436631.50	1959 Mar 4	R-11	-	M2-23	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S305	2436639.50	1959 Mar 12	R-11	-	I1-15T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S309	2436640.50	1959 Mar 13	R-11	-	I1-6	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S310	2436657.50	1959 Mar 30	R-11M	-	I2-6	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S311	2436657.50	1959 Mar 30	R-11M	-	I2-15T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S312	2436678.50	1959 Apr 20	R-11M	-	B2-16T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S417	2436681.50	1959 Apr 23	R-11M	-	B2-12T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S418	2436682.50	1959 Apr 24	R-11M	-	B2-6	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S419	2436686.50	1959 Apr 28	R-11	-	I2-3T	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S415	2436687.50	1959 Apr 29	R-11M	-	B2-20	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S321	2436687.50	1959 Apr 29	R-11M	-	B2-14	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S416	2436686.50	1959 Apr 28	R-11	-	I2-9	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S322	2436703.50	1959 May 15	R-11	-	B2-1	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S323	2436707.50	1959 May 19	R-11	-	B2-20	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S329	2436725.50	1959 Jun 6	R-11M	-	I1-5T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S330	2436725.50	1959 Jun 6	R-11M	-	I3-1TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S331	2436729.50	1959 Jun 10	R-11M	-	I3-2TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S332	2436732.50	1959 Jun 13	R-11M	-	I1-5TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S341	2436736.50	1959 Jun 17	R-11M	-	I3-4TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S342	2436737.50	1959 Jun 18	R-11M	-	I3-3TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S343	2436739.50	1959 Jun 20	R-11M	-	I1-14	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S344	2436752.50	1959 Jul 3	R-11M	-	I1-23TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S354	2436763.50	1959 Jul 14	R-11M	-	I4-7T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S355	2436764.50	1959 Jul 15	R-11M	-	I1-18TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S356	2436769.50	1959 Jul 20	R-11M	-	I1-20TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S116	2436770.58	1959 Jul 21 0200	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	105	-	-
1959-S119	2436771.08	1959 Jul 21 1400	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	105	-	-
1959-S357	2436773.50	1959 Jul 24	R-11M	-	I1-24TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S358	2436773.50	1959 Jul 24	R-11M	-	I4-1	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S359	2436776.50	1959 Jul 27	R-11M	-	I10-10T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S360	2436777.50	1959 Jul 28	R-11M	-	I10-7	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S361	2436779.50	1959 Jul 30	R-11M	-	I1-6TS	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S362	2436780.50	1959 Jul 31	R-11M	-	I7-13T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S363	2436787.50	1959 Aug 7	R-11M	-	I7-11	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S365	2436797.50	1959 Aug 17	R-11M	-	B4-32	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S366	2436799.50	1959 Aug 19	R-11M	-	B4-31	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S367	2436802.50	1959 Aug 22	R-11M	-	B4-26	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S368	2436814.50	1959 Sep 3	R-11M	-	I11-7	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S369	2436814.50	1959 Sep 3	R-11M	-	I11-3T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S370	2436818.50	1959 Sep 7	R-11M	-	B4-1T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S371	2436819.50	1959 Sep 8	R-11M	-	B4-9T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S375	2436819.50	1959 Sep 8	R-11M	-	B1-2	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S376	2436829.50	1959 Sep 18	R-11M	-	B4-30	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S377	2436833.50	1959 Sep 22	R-11M	-	I5-1	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S378	2436833.50	1959 Sep 22	R-11M	-	I5-6T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S379	2436836.50	1959 Sep 25	R-11M	-	B4-28	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S380	2436836.50	1959 Sep 25	R-11M	-	B4-27	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S381	2436842.50	1959 Oct 1	R-11M	-	I8-20T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S382	2436844.50	1959 Oct 3	R-11M	-	I8-10	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S384	2436850.50	1959 Oct 9	R-11M	-	B1-5	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S385	2436856.50	1959 Oct 15	R-11M	-	I12-7T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S386	2436861.50	1959 Oct 20	R-11M	-	I12-3	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S394	2436898.50	1959 Nov 26	R-11M	-	I13-2T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S395	2436899.50	1959 Nov 27	R-11M	-	I13-12	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S396	2436914.50	1959 Dec 12	R-11M	-	I6-11	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S397	2436914.50	1959 Dec 12	R-11M	-	I6-6T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S290	2436914.50	1959 Dec 12	R-17	-	VK1-02 (R-11MU)	8K14 LKI-1	-	-	-	GTsP-4	-	-	-	150?	240	-
1959-S398	2436919.50	1959 Dec 17	R-11M	-	I14-1T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S399	2436921.50	1959 Dec 19	R-11M	-	I14-0	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S400	2436926.50	1959 Dec 24	R-11	-	B1-25	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S401	2436926.50	1959 Dec 24	R-11	-	B1-16	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S410	2436926.50	1959 Dec 24	R-17	-	VK1-04 (R-11MU)	8K14 LKI-2	-	-	-	GTsP-4	-	-	-	150?	240	-
1959-S406	2436927.50	1959 Dec 25	R-11M	-	I15-10	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S407	2436927.50	1959 Dec 25	R-11M	-	I15-2T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S408	2436928.50	1959 Dec 26	R-11M	-	I9-15	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S402	2436929.50	1959 Dec 27	R-11	-	B1-22	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S409	2436929.50	1959 Dec 27	R-11M	-	I9-6T	-	-	-	-	GTsP-4	-	-	-	80?	-	-
1959-S403	2436930.50	1959 Dec 28	R-11	-	B1-24	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S404	2436931.50	1959 Dec 29	R-11	-	B1-19	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S405	2436931.50	1959 Dec 29	R-11	-	B1-23	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-A06	2436568.50	1959	R-11FM	-	-	-	-	-	B-67	BELA?	-	-	-	0?	-	-
1960-S502	2436941.50	1960 Jan 8	R-17	-	VK1-01	8K14 LKI-3	-	-	-	GTsP-4	-	-	-	150?	240	-
1960-S503	2436959.50	1960 Jan 26	R-17	-	VK1-03	8K14 LKI-4	-	-	-	GTsP-4	-	-	-	150?	56	-
1960-S504	2436961.50	1960 Jan 28	R-17	-	VK1-05	8K14 LKI-5	-	-	-	GTsP-4	-	-	-	150?	240	-
1960-S505	2436966.50	1960 Feb 2	R-17	-	VK1-07	8K14 LKI-6	-	-	-	GTsP-4	-	-	-	150?	57	-
1960-S435	2436969.50	1960 Feb 5	R-17	-	VK1-06	8K14 LKI-7	-	-	-	GTsP-4	-	-	-	150?	125	-
1960-S177	2437183.50	1960 Sep 6	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	206	-	-
1960-S267	2437187.50	1960 Sep 10	R-11FM	-	-	-	-	-	B-67	BELA?	-	-	-	86?	-	-
1960-S278	2437196.50	1960 Sep 19	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	210	-	-
1960-S283	2437198.50	1960 Sep 21	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1961-S35	2437345.50	1961 Feb 15	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1961-S47	2437345.85	1961 Feb 15 0820?	R-11A	-	-	UV ozone spectra	-	-	-	GTsP-4	-	-	-	96	-	-
1961-S447	2437542.50	1961 Sep	R-17	-	-	Last LKI	-	-	-	GTsP-4	-	-	-	150?	-	-
1961-S294	2437565.50	1961 Sep 23	R-11A	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1962-S01	2437664.50	1962	R-11A-MV	-	-	MV parachute tests	-	-	-	GTsP-4	-	-	-	86?	-	-
1962-S02	2437664.50	1962	R-11A-MV	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1962-S03	2437664.50	1962	R-11A-MV	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1962-S04	2437664.50	1962	R-11A-MV	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1962-S05	2437664.50	1962	R-11A-MV	-	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1964-A18	2438430.75	1964 Feb 5 0600?	R-17	-	KY-2	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1964-A21	2438437.00	1964 Feb 11 1200?	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1964-S152	2438470.09	1964 Mar 15 1412:54	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	278?	-	-
1964-S194	2438493.86	1964 Apr 8 0841	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	278	-	-
1964-A59	2438510.75	1964 Apr 25 0605:26	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1964-S369	2438594.69	1964 Jul 18 0430	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250	-	-
1964-S424	2438619.63	1964 Aug 12 0300:12	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	246	-	-
1964-A126	2438641.20	1964 Sep 2 1645	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1964-S515	2438678.79	1964 Oct 10 0700:04	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	254	-	-
1964-S524	2438685.01	1964 Oct 16 1210	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	254	-	-
1964-S550	2438698.01	1964 Oct 29 1215:02	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	248	-	-
1964-S652	2438727.97	1964 Nov 28 1114:26	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1964-S697	2438750.91	1964 Dec 21 0944:59	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1965-S703	2438760.50	1965	R-17	-	KY-3 (Scud C)	Long range R-17	-	-	-	GTsP-4	-	-	-	250?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S39	2438776.13	1965 Jan 15 1500:03	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1965-S57	2438790.72	1965 Jan 30 0515	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	206	-	-
1965-S95	2438804.00	1965 Feb 12 1200:06	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1965-A33	2438811.77	1965 Feb 20 0630:02	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1965-S136	2438824.96	1965 Mar 5 1100:21	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250	-	-
1965-S159	2438832.85	1965 Mar 13 0820:31	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	207	-	-
1965-S251	2438874.92	1965 Apr 24 1000:25	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	250?	-	-
1965-S275	2438887.81	1965 May 7 0728	R-11	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1965-S277	2438888.95	1965 May 8 1047	R-11	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1965-S292	2438895.30	1965 May 14 1912	R-11	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1965-S293	2438895.83	1965 May 15 0800	R-11	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1965-S297	2438898.88	1965 May 18 0907	R-11	?	-	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1965-S315	2438907.23	1965 May 26 1730	R-17	?	KY-2	-	-	-	-	GTsP-4	-	-	-	231	-	-
1973-S478	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	R-17E	-	-	-	DEVER	-	-	-	100?	-	-
1973-S479	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	-	-	-	-	DEVER	-	-	-	100?	-	-
1973-S480	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	-	-	-	-	DEVER	-	-	-	100?	-	-
1977-S318	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S319	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S320	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S321	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S322	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S323	2443416.50	1977 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1977-S331	2443447.50	1977 Nov	R-17VTO	-	Aerofon	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1978-S280	2443508.50	1978?	R-17VTO	-	Aerofon	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1979-S262	2444145.50	1979 Sep 29	R-17VTO	-	Aerofon	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1980-S249	2444543.50	1980 Nov?	R-17	-	Scud B	69 against Iran	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S197	2444694.50	1981 Apr?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S198	2444694.50	1981 Apr?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S199	2444694.50	1981 Apr?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S200	2444694.50	1981 Apr?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S201	2444694.50	1981 Apr?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S202	2444755.50	1981 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S203	2444755.50	1981 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S204	2444755.50	1981 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S205	2444908.50	1981 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S206	2444908.50	1981 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S207	2444938.50	1981 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1981-S208	2444938.50	1981 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S225	2445089.50	1982 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S226	2445089.50	1982 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S227	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S228	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S229	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S230	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S231	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S232	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S233	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S234	2445150.50	1982 Jul?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S235	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S236	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S237	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S238	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S239	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S240	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S241	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S242	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S243	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S244	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S245	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S246	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S247	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S248	2445212.50	1982 Sep?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S249	2445303.50	1982 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1982-S250	2445303.50	1982 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S262	2445334.50	1983?	R-17VTO	-	Aerofon	UGCh	ZLKI 1	-	-	GTsP-4	-	-	-	86?	-	-
1983-S263	2445334.50	1983?	R-17VTO	-	Aerofon	UGCh	ZLKI 2	-	-	GTsP-4	-	-	-	86?	-	-
1983-S220	2445365.50	1983 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S221	2445365.50	1983 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S222	2445365.50	1983 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S223	2445365.50	1983 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S224	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S225	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S226	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S227	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S228	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S229	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S230	2445454.50	1983 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S231	2445546.50	1983 Aug?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S232	2445546.50	1983 Aug?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S233	2445607.50	1983 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S234	2445607.50	1983 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S235	2445607.50	1983 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S236	2445607.50	1983 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S237	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S238	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S239	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-S240	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S241	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S242	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S243	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S244	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S245	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S246	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S247	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S248	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S249	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S250	2445638.50	1983 Nov?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S251	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S252	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S253	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S254	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S255	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1983-S256	2445668.50	1983 Dec?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S210	2445699.50	1984?	R-17VTO	-	Aerofon	UGCh	ZLKI 3	-	-	GTsP-4	-	-	-	86?	-	-
1984-S147	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S148	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S149	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S150	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S151	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S152	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S153	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S154	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S155	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S156	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S157	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S158	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S159	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S160	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S161	2445730.50	1984 Feb?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S162	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S163	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S164	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S165	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S166	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S167	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S168	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S169	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S170	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S171	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S172	2445759.50	1984 Mar?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S73	2445790.50	1984 Apr	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S279	2445790.50	1984 Apr?	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S280	2445790.50	1984 Apr?	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S173	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S174	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S175	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S176	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S177	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S178	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S179	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S200	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S181	2445851.50	1984 Jun?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S281	2445943.50	1984 Sep?	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S112	2445943.50	1984 Sep?	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S113	2445943.50	1984 Sep	Hwasong 5	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1984-S140	2445967.50	1984 Sep 24	R-17VTO	-	Aerofon	-	-	-	-	GTsP-4	-	-	-	86?	-	-
1984-S182	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S183	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S184	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S185	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S186	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S187	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S188	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S189	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S190	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S191	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S192	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S193	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S194	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S195	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S196	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S197	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S198	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S199	2445973.50	1984 Oct?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1984-S141	2446004.50	1984 Oct 31	R-17VTO	-	Aerofon	-	ZLKI 5	-	-	GTsP-4	-	-	-	86?	-	-
1985-S152	2446065.50	1985	R-17VTO	-	Aerofon	-	ZLKI 6	-	-	GTsP-4	-	-	-	86?	-	-
1985-S168	2446065.50	1985?	R-17VTO	-	Aerofon	UGCh	ZLKI 7	-	-	GTsP-4	-	-	-	86?	-	-
1985-S161	2446124.50	1985 Mar?	R-17	-	-	54 launches vs Iran	-	-	-	IRAQ-A	?	-	-	100?	-	-
1985-S153	2446136.50	1985 Mar 12	Shahab 1	-	-	Kirkuk	-	-	-	KERM	-	-	-	100?	-	-
1985-S154	2446138.50	1985 Mar 14	Shahab 1	-	-	Baghdad	-	-	-	KERM	-	-	-	100?	-	-
1985-S155	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-
1985-S156	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-S157	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-
1985-S158	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-
1985-S159	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-
1985-S160	2446124.50	1985 Mar	Shahab 1	-	-	-	-	-	-	KERM	-	-	-	100?	-	-
1985-S163	2446155.50	1985 Apr?	R-17	-	Scud B	22 launches vs Iran	-	-	-	IRAQ-A	-	-	-	100?	-	-
1985-S164	2446185.50	1985 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1985-S165	2446185.50	1985 May?	R-17	-	Scud B	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1985-S166	2446185.50	1985 May?	R-17	-	Scud B	15 launches vs Iran	-	-	-	IRAQ-A	-	-	-	100?	-	-
1985-S167	2446277.50	1985 Aug?	R-17	-	Scud B	Test launch	-	-	-	IRAQ-A	-	-	-	100?	-	-
1986-S135	2446430.50	1986	R-17VTO	-	Aerofon	UGCh	ZLKI 8	-	-	GTsP-4	-	-	-	86?	-	-
1986-S136	2446489.50	1986 Mar?	R-17VTO	-	Aerofon	UGCh	LKI III-1	-	-	GTsP-4	-	-	-	86?	-	-
1986-S123	2446535.50	1986 Apr 15	R-17	-	-	Lampedusa	-	-	-	TRIP	-	-	-	100?	-	-
1986-S124	2446535.50	1986 Apr 15	R-17	-	-	Lampedusa	-	-	-	TRIP	-	-	-	100?	-	-
1986-S194	2446550.50	1986 May	Hwasong 5	?	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1987-S190	2446795.50	1987 Jan?	R-17	-	Scud B	27 launches vs Iran	-	-	-	IRAQ-A	-	-	-	100?	-	-
1987-A24	2446837.50	1987 Feb 11	R-17	-	-	Al Hussein R&D 1	-	-	-	IRAQ-A	?	-	-	10?	-	-
1987-S191	2446854.50	1987 Mar?	R-17	-	Scud B	9 launches vs Iran	-	-	-	IRAQ-A	-	-	-	100?	-	-
1987-S188	2446906.50	1987 Apr 21	R-17	-	-	Al Hussein R&D 2	-	-	-	IRAQ-A	?	-	-	10?	-	-
1987-S189	2446913.50	1987 Apr 28	R-17	-	-	Al Hussein R&D 3	-	-	-	IRAQ-A	?	-	-	10?	-	-
1987-S186	2447010.50	1987 Aug 3	Al Hussein	-	-	Range test, 615 km	-	-	-	IRAQ-A	?	-	-	100?	-	-
1987-S187	2447157.50	1987 Dec 28	Al Hussein	-	-	Combat valid. test	-	-	-	IRAQ-A	?	-	-	100?	-	-
1988-S149	2447220.50	1988 Feb 29	Al Hussein	?	-	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S150	2447220.50	1988 Feb 29	Al Hussein	?	-	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S151	2447220.50	1988 Feb 29	Al Hussein	?	-	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S159	2447220.50	1988 Mar?	R-17	-	Scud B	181 launches vs Iran	-	-	-	IRAQ-A	?	-	-	100?	-	-
1988-S152	2447221.50	1988 Mar 1	Al Hussein	?	-	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S153	2447221.50	1988 Mar 1	Al Hussein	?	-	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S154	2447221.50	1988 Mar 1	Al Hussein	?	[total up to 9/2d]	vs Tehran	-	-	-	AMAR	-	-	-	100?	-	-
1988-S155	2447276.50	1988 Apr 25	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1988-S156	2447339.50	1988 Jun 27	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1988-S157	2447340.50	1988 Jun 28	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1988-S158	2447341.50	1988 Jun 29	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1989-S118	2447569.50	1989 Feb 12	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1989-S119	2447569.50	1989 Feb 12	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1989-S121	2447734.50	1989 Jul 27	Al Hussein	-	-	Launch trailer test	-	-	-	IRAQ-A	?	-	-	100?	-	-
1989-S120	2447759.50	1989 Aug 21	Al Abbas	-	-	Test flight	-	-	-	IQTA	-	-	-	100?	-	-
1989-S123	2447769.50	1989 Sep	R-17VTO	-	Aerofon	UGCh	LKI III-22	-	-	GTsP-4	-	-	-	86?	-	-
1990-S178	2447893.50	1990 Jan 2	Short Al Hussein	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S179	2447893.50	1990 Jan 2	Al Hussein	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S180	2447893.50	1990 Jan 2	Short Al Hussein	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S181	2447893.50	1990 Jan 2	Al Hussein	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S182	2447989.50	1990 Apr 8	Al Hussein	-	-	Chemical warhead	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S183	2447989.50	1990 Apr 8	Short Al Hussein	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S184	2447999.50	1990 Apr 18	Al Hijara	-	-	Test flight	-	-	-	IRAQ-A	?	-	-	100?	-	-
1990-S99	2448042.50	1990 Jun	Hwasong 6	-	-	-	-	-	-	TONGH	-	-	-	86?	-	-
1990-S190	2448069.50	1990 Jun 27	Al Hussein	-	H4-1	Separating RV test	-	-	-	IQTA	-	-	-	100?	-	-
1990-S117	2448118.50	1990 Aug 15	Al Hussein	-	-	-	-	-	-	IQUQ?	-	-	-	100?	-	-
1990-S165	2448227.50	1990 Dec 2	Al Hussein	-	-	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1990-S166	2448227.50	1990 Dec 2	Al Hussein	-	-	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1990-S167	2448227.50	1990 Dec 2	Al Hussein	-	-	-	-	-	-	IRAQ-A	-	-	-	100?	-	-
1990-S187	2448251.50	1990 Dec 26	R-17	-	-	Launch trailer test	-	-	-	IQAN	-	-	-	100?	-	-
1990-S185	2448253.50	1990 Dec 28	Al Abbas	-	To Ar Rutba	Separating RV test	-	-	-	IQUQ	?	-	-	100?	-	-
1990-S186	2448253.50	1990 Dec 28	Al Abbas	-	-	Separating RV test	-	-	-	IQUQ	?	-	-	100?	-	-
1991-S17	2448273.50	1991 Jan 17	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S18	2448275.50	1991 Jan 19	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S19	2448275.50	1991 Jan 19	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S20	2448275.50	1991 Jan 19	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S21	2448277.28	1991 Jan 20 1843	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S22	2448277.28	1991 Jan 20 1843	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S23	2448277.85	1991 Jan 21 0829	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S24	2448277.85	1991 Jan 21 0829	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S25	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S26	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S27	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S28	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S29	2448278.30	1991 Jan 21 1918	Al Hussein	-	-	Al Jubayl	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S30	2448278.50	1991 Jan 22	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S32	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S33	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S34	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S35	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S36	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S37	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S38	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S39	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S40	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S41	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S42	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S43	2448281.50	1991 Jan 25	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S44	2448282.31	1991 Jan 25 1923	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S45	2448282.31	1991 Jan 25 1923	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S46	2448282.50	1991 Jan 26	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S47	2448282.52	1991 Jan 26 0028	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S49	2448283.32	1991 Jan 26 1946	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S50	2448285.25	1991 Jan 28 1755	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S53	2448287.50	1991 Feb	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-S54	2448287.50	1991 Feb	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S55	2448287.50	1991 Feb	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S56	2448289.50	1991 Feb 2	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S57	2448289.50	1991 Feb 2	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S58	2448290.40	1991 Feb 2 2141	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S63	2448295.45	1991 Feb 7 2254	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S65	2448299.31	1991 Feb 11 1920	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S68	2448301.86	1991 Feb 14 0845	Al Hussein	-	-	Hafir Al Batin	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S69	2448301.86	1991 Feb 14 0845	Al Hussein	-	-	Hafir Al Batin	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S70	2448303.46	1991 Feb 15 2301	Al Hussein	-	-	Al Jubayl	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S73	2448309.09	1991 Feb 21 1406	Al Hussein	-	-	KK Mil City	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S74	2448309.09	1991 Feb 21 1406	Al Hussein	-	-	KK Mil City	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S75	2448309.25	1991 Feb 21 1800	Al Hussein	-	-	KK Mil City	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S76	2448309.48	1991 Feb 21 2331	Al Hussein	-	-	Bahrain	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S78	2448310.58	1991 Feb 23 0159	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S79	2448310.58	1991 Feb 23 0159	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S81	2448311.56	1991 Feb 24 0132	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S80	2448311.50	1991 Feb 24	Al Hussein	-	-	Israel	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S82	2448311.77	1991 Feb 24 0623	Al Hussein	-	-	Riyadh	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S83	2448311.89	1991 Feb 24 0917	Al Hussein	-	-	KK Mil City	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S192	2448312.50	1991 Feb 25?	Al Hijara	-	-	Israel-Negev	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S193	2448312.50	1991 Feb 25?	Al Hijara	-	-	Israel-Negev	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S194	2448312.50	1991 Feb 25?	Al Hijara	-	-	Israel-Negev	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S195	2448312.50	1991 Feb 25?	Al Hijara	-	-	Israel-Negev	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S196	2448312.50	1991 Feb 25?	Al Hijara	-	-	Israel-Negev	-	-	-	IRAQ-W	-	-	-	100?	-	-
1991-S84	2448313.23	1991 Feb 25 1732	Al Hussein	-	-	Dhahran	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S85	2448313.43	1991 Feb 25 2226	Al Hussein	-	-	Qatar	-	-	-	IQUQ	-	-	-	100?	-	-
1991-S101	2448376.50	1991 May	Shahab 2	-	-	-	-	-	-	QOM	-	-	-	125?	-	-
1991-S121	2448437.50	1991 Jul	Hwasong 6	-	-	-	-	-	-	CHIHA	-	-	-	125?	-	-
1992-S58	2448803.50	1992 Jul	Hwasong 6	-	-	-	-	-	-	SYRIA	-	-	-	125?	-	-
1992-S59	2448803.50	1992 Jul	Hwasong 6	-	-	-	-	-	-	SYRIA	-	-	-	125?	-	-
1993-S38	2449136.50	1993 May 29	Hwasong 6	?	-	-	-	-	-	TONGH	-	-	-	125?	100?	-
1993-S39	2449136.50	1993 May 29	Hwasong 6	?	-	-	-	-	-	TONGH	-	-	-	125?	100?	-
1993-S40	2449137.50	1993 May 30	Hwasong 6	?	-	-	-	-	-	TONGH	-	-	-	125?	100?	-
1994-S44	2449533.50	1994 Q3	Hwasong 6	-	Scud C	-	-	-	-	SYRIA	-	-	-	125?	-	-
1994-S94	2449484.50	1994 May 12	Hwasong 6	-	-	Sanaa (total 30)	-	-	-	YEMEN	-	-	-	100?	-	-
1994-S95	2449503.50	1994 Jun	Hwasong 6	-	-	Sanaa	-	-	-	YEMEN	-	-	-	100?	-	-
1994-S96	2449533.50	1994 Jul	Hwasong 6	-	-	Sanaa	-	-	-	YEMEN	-	-	-	100?	-	-
1994-S100	2449662.50	1994 Nov 6	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1994-S101	2449662.50	1994 Nov 6	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1994-S102	2449662.50	1994 Nov 6	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1997-S09	2450486.50	1997 Feb 7	Scud	-	FMA 1	Willow Dune	-	-	-	AUR	-	-	-	125?	-	-
1997-S28	2450527.50	1997 Mar 20	Scud	-	FMA 2	Willow Dune	-	-	-	AUR	-	-	-	125?	-	-
1999-S81	2451339.50	1999 Jun 10	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1999-S82	2451339.50	1999 Jun 10	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1999-S83	2451339.50	1999 Jun 10	Shahab 1	?	-	vs Camp Ashraf	-	-	-	KERM	-	-	-	100?	-	-
1999-S84	2451484.50	1999 Nov 2	Shahab 1	?	-	vs Camp Habib	-	-	-	KERM?	-	-	-	100?	-	-
1999-S85	2451484.50	1999 Nov 2	Shahab 1	?	-	vs Camp Habib	-	-	-	KERM?	-	-	-	100?	-	-
1999-S86	2451484.50	1999 Nov 2	Shahab 1	?	-	vs Camp Habib	-	-	-	KERM?	-	-	-	100?	-	-
2001-S66	2452017.50	2001 Apr 18	Shahab 1	?	-	vs MKO camps	-	-	-	KERM?	-	-	-	100?	-	-
2001-S67	2452017.50	2001 Apr 18	Shahab 1	?	-	vs MKO camps	-	-	-	KERM?	-	-	-	100?	-	-
2001-S68	2452017.50	2001 Apr 18	Shahab 1	?	[many launches]	vs MKO camps	-	-	-	KERM?	-	-	-	100?	-	-
2001-S64	2452091.50	2001 Jul 1?	Scud B	-	-	-	-	-	-	MINAKH?	-	-	-	100?	-	-
2002-A02	2452593.31	2002 Nov 14 1925	Scud B	-	FMA 3	BLUE VELVET	GMDS	-	-	V	LF7632	-	-	46	185	-
2002-S74	2452603.90	2002 Nov 25 0930	Scud B	-	FMA 4	BLUE VELVET	GMDS	-	-	V	LF7632	-	-	84	300?	-
2003-S60	2452677.50	2003 Feb 7	Scud	-	FMA 5	FMA DEMO	-	-	-	WS	-	-	-	80?	-	-
2004-M02	2453216.22	2004 Jul 29 1722?	Scud	-	FMA 6	Arrow USFT-1 Target	CARAVAN-1 Target	-	MLP	WTR	LP1	-	-	80?	-	-
2005-S23	2453517.50	2005 May 27	Scud B	-	-	-	-	-	-	MINAKH	-	-	-	100?	-	-
2006-S34	2453921.27	2006 Jul 4 1832	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	-	-
2006-S36	2453921.42	2006 Jul 4 2212	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	-	-
2007-S06	2454127.72	2007 Jan 27 0518?	Scud	-	THAAD FTT-06 Target	FMA 7 Target	-	-	MLP	KAU	-	-	-	100?	-	-
2007-S18	2454196.78	2007 Apr 6 0642	Scud	?	THAAD FTT-07 Target	FMA 8 Target	-	-	MLP	KAU	-	-	-	100?	-	-
2007-S52	2454400.80	2007 Oct 27 0715	Scud	?	THAAD FTT-08 Target	FMA 9 Target	-	-	MLP	KAU	-	-	-	100?	-	-
2008-S26	2454623.26	2008 Jun 5 1813	Scud	-	Aegis FTM-14 Target	FMA 10 Target	-	-	MLP	KAU	-	-	-	150?	-	-
2008-S44	2454727.59	2008 Sep 18 0205	Scud	?	THAAD FTT-10 Target	FMA 11 Target	-	-	MLP	KAU	-	-	-	80?	-	-
2009-S15	2454908.52	2009 Mar 18 0025?	Scud	?	THAAD FTT-10a Target	FMA 12 Target?	(Sep Target)?	-	MLP	KAU	-	-	-	100?	-	-
2009-S77	2455016.57	2009 Jul 4 0145	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	420	S of Japan
2009-S78	2455016.62	2009 Jul 4 0300	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	420	S of Japan
2009-S79	2455016.74	2009 Jul 4 0550	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	420	S of Japan
2009-S80	2455016.80	2009 Jul 4 0710	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	420	S of Japan
2009-S81	2455016.86	2009 Jul 4 0840	Hwasong 6	-	-	-	-	-	-	KITT	-	-	-	150?	420	S of Japan
2009-S46	2455101.50	2009 Sep 27	Shahab 1	-	-	-	-	-	-	SEMX	-	-	-	100?	-	-
2009-S47	2455101.50	2009 Sep 27	Shahab 2	-	Shahab 2	-	-	-	-	SEMX	-	-	-	125?	-	-
2010-S17	2455239.70	2010 Feb 12 0444	Scud	-	ALTB Target	FMA 13	-	-	MLP	WTR	W1	-	-	100?	-	-
2010-S46	2455376.81	2010 Jun 29 0732	Scud	-	THAAD FTT-14 target	FMA 14	-	-	MLP	KAU	-	-	-	80?	-	-
2010-S54	2455428.50	2010 Aug 20	Qiam-1	-	Qiam-1	-	-	-	-	SEMX	-	-	-	126	-	-
2010-S57	2455440.50	2010 Sep 1	Scud	?	ALTB FEL-01b Target	FMA 15	-	-	-	PM	-	-	-	100?	-	-
2011-A01	2455615.77	2011 Feb 23 0630	Scud	?	Arrow 2 Target	FMA 16	CARAVAN-2 Target	-	MLP	PM	-	-	-	40?	-	-
2011-S24	2455740.50	2011 Jun 28	Shahab 1	-	-	-	-	-	-	SEMX	-	-	-	100?	-	-
2011-S58	2455740.50	2011 Jun 28	Shahab 1	-	-	-	-	-	-	SEMX	-	-	-	100?	-	-
2011-S25	2455740.50	2011 Jun 28	Shahab 2	-	-	-	-	-	-	SEMX	-	-	-	125?	-	-
2011-S59	2455740.50	2011 Jun 28	Shahab 2	-	-	-	-	-	-	SEMX	-	-	-	125?	-	-
2011-S46	2455839.75	2011 Oct 5 0556	Scud	?	THAAD FTT-12 Target	FMA 17	-	-	MLP	KAU	-	-	-	100?	-	-
2012-S36	2456111.50	2012 Jul 3	Shahab 1	-	-	-	-	-	-	SEMX	-	-	-	100?	-	-
2012-S37	2456111.50	2012 Jul 3	Shahab 2	-	-	-	-	-	-	SEMX	-	-	-	125?	-	-
2012-S95	2456120.50	2012 Jul 12	Scud	-	-	-	-	-	-	ALNASR?	-	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2012-S63	2456225.50	2012 Oct 25?	Scud	-	FTI-01 PAC-3 Target	FMA 18	-	-	MLP	KMR	BOA-NE	-	-	150?	-	-
2012-S78	2456271.50	2012 Dec 10	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S79	2456271.50	2012 Dec 10	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S84	2456271.50	2012 Dec 10?	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S85	2456271.50	2012 Dec 10?	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S86	2456271.50	2012 Dec 10?	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S87	2456271.50	2012 Dec 10?	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S80	2456281.50	2012 Dec 20	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S81	2456281.50	2012 Dec 20	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S82	2456281.50	2012 Dec 20	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2012-S83	2456281.50	2012 Dec 20	Scud	-	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S44	2456297.50	2013 Jan 5	Scud	?	Scud	-	-	-	-	ALNASR?	-	-	-	100?	-	-
2013-S10	2456338.50	2013 Feb 15	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S11	2456338.50	2013 Feb 15?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S12	2456339.50	2013 Feb 16?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S13	2456339.50	2013 Feb 16?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S14	2456340.50	2013 Feb 17?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S15	2456340.50	2013 Feb 17?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S16	2456341.50	2013 Feb 18?	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S17	2456342.50	2013 Feb 19	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S18	2456345.50	2013 Feb 22	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S19	2456345.50	2013 Feb 22	Scud	?	-	-	-	-	-	ALNASR	-	-	-	80?	-	-
2013-S101	2456640.50	2013 Dec 14	Shahab 1	-	Kavoshgar Pazhuhesh	Kavoshgar Type D	-	-	-	SEM	SAF?	-	-	120	-	-
2014-S88	2456698.50	2014 Feb 10	Qiam-1	-	-	-	-	-	-	SEMX	-	-	-	100?	-	-
2014-S08	2456715.86	2014 Feb 27 0842	Hwasong 5	?	-	-	-	-	-	KITT	-	-	-	80?	220	-
2014-S09	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	-	-	-	-	KITT	-	-	-	80?	220	-
2014-S10	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	-	-	-	-	KITT	-	-	-	80?	220	-
2014-S11	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	-	-	-	-	KITT	-	-	-	80?	220	-
2014-S12	2456719.39	2014 Mar 2 2119	Hwasong 6	?	Scud C	-	-	-	-	WONSAN?	-	-	-	150?	500	-
2014-S13	2456719.39	2014 Mar 2 2119	Hwasong 6	?	Scud C	-	-	-	-	WONSAN?	-	-	-	150?	500	-
2014-S35	2456837.33	2014 Jun 28 1950	Hwasong 6	?	Scud C	-	-	-	-	WONSAN	LP2	-	-	150?	-	-
2014-S36	2456837.33	2014 Jun 28 1958	Hwasong 6	?	Scud C	-	-	-	-	WONSAN	LP2	-	-	150?	-	-
2014-S46	2456847.29	2014 Jul 8 1900?	Hwasong 6	?	Scud C	-	-	-	-	HWJU	-	-	-	150?	500	-
2014-S47	2456847.31	2014 Jul 8 1920?	Hwasong 6	?	Scud C	-	-	-	-	HWJU	-	-	-	150?	500	-
2014-S38	2456851.18	2014 Jul 12 1620?	Hwasong 6	?	Scud C	-	-	-	-	KAES	-	-	-	150?	500	S. of Japan
2014-S39	2456851.19	2014 Jul 12 1630?	Hwasong 6	?	Scud C	-	-	-	-	KAES	-	-	-	150?	500	S. of Japan
2014-S86	2456865.03	2014 Jul 26 1240	Hwasong 6	?	Scud C	-	-	-	-	HWJU?	-	-	-	150?	500	S. of Japan
2015-M01	2457083.40	2015 Mar 1 2133	Hwasong 6	?	Scud C	-	-	-	-	NAMPO	-	-	-	134	495	S. of Japan
2015-M02	2457083.40	2015 Mar 1 2141	Hwasong 6	?	Scud C	-	-	-	-	NAMPO	-	-	-	134	493	S. of Japan
2015-S32	2457179.50	2015 Jun 6	Hwasong 6	-	Scud C	-	-	-	-	SADAH	-	-	-	80?	-	KKAB,Saudi
2015-S36	2457203.50	2015 Jun 30	Hwasong 6	-	Scud C	-	-	-	-	SADAH	-	-	-	80?	-	AlSulayil
2015-S46	2457260.50	2015 Aug 26	Hwasong 6	?	Scud C or Qahir-1?	-	-	-	-	SANAA	-	-	-	80?	-	Jizan
2016-S12	2457455.50	2016 Mar 8?	Shahab 1	-	-	-	-	-	-	QOM?	-	-	-	100?	300?	-
2016-S13	2457455.50	2016 Mar 8?	Shahab 2	-	-	-	-	-	-	QOM?	-	-	-	125?	500	-
2016-S14	2457456.50	2016 Mar 9?	Qiam-1	-	Qiam-1	-	-	-	-	QOM?	-	-	-	125?	800	-
2016-S17	2457457.35	2016 Mar 9 2020	Hwasong 6	?	Scud C	-	-	-	-	HWJU?	-	-	-	150?	-	-
2016-S18	2457457.35	2016 Mar 9 2020	Hwasong 6	?	Scud C	-	-	-	-	HWJU?	-	-	-	150?	-	-
2016-S43	2457588.36	2016 Jul 18 2045	Hwasong 6	?	Scud C	-	-	-	-	HWJU?	-	-	-	150?	-	-
2016-S44	2457588.37	2016 Jul 18 2050?	Hwasong 6	?	Scud C?	-	-	-	-	HWJU?	-	-	-	150?	-	-
2016-S72	2457633.50	2016 Sep 2	Burkan-1H	-	-	-	-	-	-	YEMEN	-	-	-	100?	-	Saudi
2016-S52	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	-	-	-	-	HWJU	-	-	-	150?	-	-
2016-S53	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	-	-	-	-	HWJU	-	-	-	150?	-	-
2016-S54	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	-	-	-	-	HWJU	-	-	-	150?	-	-
2016-S73	2457641.50	2016 Sep 10	Burkan-1H	?	-	-	-	-	-	YEMEN	-	-	-	100?	-	Jizan
2016-S74	2457670.50	2016 Oct 9	Burkan-1H	-	-	-	-	-	-	YEMEN	-	-	-	100?	-	KFAB Al-Taif
2016-S75	2457688.50	2016 Oct 27	Burkan-1H	-	-	-	-	-	-	YEMEN	-	-	-	100?	-	KAIA Jeddah
2016-S78	2457707.50	2016 Nov 15	Qiam-1	-	Qiam-1	-	-	-	-	SEMX?	-	-	-	125?	800	-
2017-S96	2457789.50	2017 Feb 5	Burkan-2H	-	-	-	-	-	-	YEMEN	-	-	-	100?	-	Riyadh
2017-S19	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	-	-	-	-	SOHAE	LP1	-	-	260?	1000?	Sea of J.
2017-S20	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	-	-	-	-	SOHAE	LP1	-	-	260?	1000?	Sea of J.
2017-S21	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	-	-	-	-	SOHAE	LP1	-	-	260?	1000?	Sea of J.
2017-S22	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	-	-	-	-	SOHAE	LP1	-	-	260?	1000?	Sea of J.
2017-S97	2457830.50	2017 Mar 18	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	-	Riyadh
2017-S98	2457892.50	2017 May 19	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	-	Riyadh
2017-S110	2457922.50	2017 Jun 18	Qiam-1	?	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2017-S99	2457957.50	2017 Jul 23	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	-	Yanbu
2017-S100	2457962.50	2017 Jul 28	Burkan-1H	-	-	-	-	-	-	SADAH?	-	-	-	100?	-	KFAB Al-Taif
2017-S35	2457902.36	2017 May 28 2039	Hwasong 9	?	KN-18	-	-	-	-	WONSAN	-	-	-	150?	450	-
2017-S69	2457991.41	2017 Aug 25 2149	Hwasong 5	-	KN-21	-	-	-	-	KITT	-	-	-	100?	250	-
2017-A10	2457991.42	2017 Aug 25 2207	Hwasong 5	-	KN-21	-	-	-	-	KITT	-	-	-	0?	0?	-
2017-S70	2457991.43	2017 Aug 25 2219	Hwasong 5	-	KN-21	-	-	-	-	KITT	-	-	-	100?	250	-
2017-S101	2458062.21	2017 Nov 4 1707	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2017-S105	2458106.50	2017 Dec 19	Burkan-2H	-	-	-	-	-	-	SADAH	-	-	-	100?	800	Riyadh
2018-S11	2458148.50	2018 Jan 30	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S15	2458203.35	2018 Mar 25 2025?	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S21	2458219.50	2018 Apr 11	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S32	2458246.50	2018 May 8	Burkan-2H	-	-	"Scores of missiles"	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S33	2458246.50	2018 May 8	Burkan-2H	-	-	"Scores of missiles"	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S45	2458293.50	2018 Jun 24	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S46	2458293.50	2018 Jun 24	Burkan-2H	-	-	-	-	-	-	SADAH?	-	-	-	100?	800	Riyadh
2018-S54	2458392.50	2018 Oct 1 0000?	Qiam-1	-	-	-	-	-	-	KERM?	-	-	-	200?	-	Syria
2018-S57	2458392.50	2018 Oct 1 0000?	Qiam-1	-	-	-	-	-	-	KERM?	-	-	-	200?	-	Syria
2019-S42	2458696.50	2019 Aug 1?	Burkan-3	-	-	-	-	-	-	SADAH?	-	-	-	300?	1200	Dammam
2020-A01	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	Qiam-2?	-	-	-	TABRIZ?	-	-	-	40?	-	Erbil
2020-A02	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	-	-	-	-	TABRIZ?	-	-	-	40?	-	Erbit?
2020-A03	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	-	-	-	-	TABRIZ?	-	-	-	40?	-	AynAlAsad?

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2020-S01	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	-	-	-	-	TABRIZ?	-	-	-	200?	-	Erbil
2020-S02	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	-	-	-	-	TABRIZ?	-	-	-	200?	-	AynAlAsad
2020-S03	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	-	-	-	-	TABRIZ?	-	-	-	200?	-	AynAlAsad
2020-S18	2458900.40	2020 Feb 20 2130?	Zulfiqar	YE	-	-	-	-	-	SANAA?	-	-	-	150?	1150?	Yanbu
2020-S19	2458937.35	2020 Mar 28 2020?	Zulfiqar	YE	-	-	-	-	-	SANAA?	-	-	-	150?	1060?	Riyadh
2021-S19	2459262.50	2021 Feb 17	Zulfiqar	YE	-	-	-	-	-	SANAA?	-	-	-	150?	1060?	Riyadh
2021-S57	2459462.50	2021 Sep 5	Zulfiqar	YE	-	-	-	-	-	SANAA?	-	-	-	150?	1060?	Ras AlTanura
2022-S05	2459596.50	2022 Jan 17	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Abu Dhabi
2022-S06	2459596.50	2022 Jan 17	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Abu Dhabi
2022-S07	2459596.50	2022 Jan 17	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Abu Dhabi
2022-S08	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Abu Dhabi
2022-S09	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Dharan
2022-S10	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	-	-	-	-	ALJAWF?	-	-	-	150?	1000?	Abu Dhabi
2022-S111	2459887.02	2022 Nov 3 1235	Hwasong 6	?	-	-	-	-	-	KOKSAN	-	-	-	150	500	-
2022-S112	2459887.03	2022 Nov 3 1239	Hwasong 6	?	-	-	-	-	-	KOKSAN	-	-	-	150	500	-
2022-S113	2459887.03	2022 Nov 3 1242	Hwasong 6	?	-	-	-	-	-	KOKSAN	-	-	-	150	500	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-S11	2434485.50	1953 Apr 18	R-11	-	-	0.000	UZKA	MS	-	-	Test	Siddiqi	-	-
1953-S14	2434495.50	1953 Apr 28	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S71	2434506.50	1953 May 9	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S72	2434514.50	1953 May 17	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S73	2434519.50	1953 May 22	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S74	2434523.50	1953 May 26	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S75	2434524.50	1953 May 27	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S76	2434525.50	1953 May 28	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1953-S77	2434527.50	1953 May 30	R-11	-	-	0.000	UZKA	MF	U	-	Test	Z10	-	-
1953-S21	2434531.50	1953 Jun 3	R-11	-	-	0.000	UZKA	MS	-	-	Test	Siddiqi	Z10	-
1954-S09	2434852.50	1954 Apr 20	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1954-S14	2434854.50	1954 Apr 22	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1954-S89	2434856.50	1954 Apr 24	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S90	2434859.50	1954 Apr 27	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S91	2434866.50	1954 May 4	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S92	2434867.50	1954 May 5	R-11	-	-	0.000	UZKA	MF	U	-	Test	Z10	-	-
1954-S93	2434868.50	1954 May 6	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S94	2434870.50	1954 May 8	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S95	2434874.50	1954 May 12	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S30	2434875.50	1954 May 13	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1954-S71	2435011.50	1954 Sep 26	R-11FM	-	-	0.000	NII88/VMF	MS	-	-	Test	Delo	-	-
1954-S72	2435015.50	1954 Oct	R-11FM	-	-	0.000	NII88/VMF	MS	-	-	Test	Delo	-	-
1954-S78	2435035.50	1954 Oct 20	R-11FM	-	-	0.000	NII88/VMF	MS	-	-	Test	Delo	-	-
1954-S83	2435107.50	1954 Dec 31	R-11	-	-	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-S01	2435119.50	1955 Jan 12	R-11	-	K3-3	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-S111	2435121.50	1955 Jan 14	R-11	-	K3-4	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-S112	2435128.50	1955 Jan 21	R-11	-	K3-6	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-S113	2435128.50	1955 Jan 21	R-11	-	K3-5	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-S10	2435135.50	1955 Jan 28	R-11	-	K3-14	0.000	UZKA	MS	-	-	Test	Z10	Siddiqi	-
1955-A667	2435140.50	1955 Feb 2	R-11	-	K3-10	0.000	UZKA	MF	U	-	Test	Z10	Siddiqi	-
1955-S125	2435148.50	1955 Feb 10	R-11	-	K3-9	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S126	2435149.50	1955 Feb 11	R-11	-	K3-8	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S127	2435153.50	1955 Feb 15	R-11	-	S3-12	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S128	2435155.50	1955 Feb 17	R-11	-	S3-15	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S129	2435155.50	1955 Feb 17	R-11	-	S3-7	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S130	2435157.50	1955 Feb 19	R-11	-	S3-13	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S131	2435159.50	1955 Feb 21	R-11	-	S3-16	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S132	2435160.50	1955 Feb 22	R-11	-	S3-11	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S38	2435248.50	1955 May 21	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S33	2435227.50	1955 May?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S34	2435227.50	1955 May?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S35	2435227.50	1955 May?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S40	2435258.50	1955 Jun?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S41	2435258.50	1955 Jun?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S42	2435258.50	1955 Jun?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S50	2435288.50	1955 Jul?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S51	2435288.50	1955 Jul?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S52	2435288.50	1955 Jul?	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S60	2435318.50	1955 Jul 30	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1955-S71	2435363.11	1955 Sep 12 1432	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	www.fas.org	-	-
1955-S109	2435471.50	1955 Dec 30	R-11M	-	S1-5	0.000	UNRV	MF	U	-	Test	Z10	Siddiqi	-
1956-S01	2435481.50	1956 Jan 9	R-11M	-	S1-6	0.000	UNRV	MF	U	-	Test	Z10	Siddiqi	-
1956-A363	2435483.50	1956 Jan 11	R-11M	-	S1-7	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A364	2435486.50	1956 Jan 14	R-11M	-	S1-8	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S06	2435491.50	1956 Jan 19	R-11M	-	S1-1	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1956-S115	2435501.50	1956 Jan 29	R-11	-	S1-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S116	2435503.50	1956 Jan 31	R-11	-	S1-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A365	2435509.50	1956 Feb 6	R-11M	-	S1-19	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A366	2435511.50	1956 Feb 8	R-11M	-	S1-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A367	2435512.50	1956 Feb 9	R-11M	-	S1-12	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A368	2435514.50	1956 Feb 11	R-11M	-	S1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S119	2435528.50	1956 Feb 25	R-11M	-	S1-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S120	2435528.50	1956 Feb 25	R-11M	-	S1-4	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S121	2435530.50	1956 Feb 27	R-11M	-	S1-9	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A369	2435583.50	1956 Apr 20	R-11	-	A1-1	0.000	UNRV	MF	U	-	Test	Z10	-	-
1956-A370	2435652.50	1956 Jun 28	R-11	-	A1-5	0.000	UNRV	MF	U	-	Test	Z10	-	-
1956-A371	2435713.50	1956 Aug 28	R-11M	-	A1-13	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A372	2435729.50	1956 Sep 13	R-11M	-	A1-16	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S141	2435729.50	1956 Sep 13	R-11M	-	A1-6	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-A373	2435736.50	1956 Sep 20	R-11M	-	A1-17	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S91	2435777.50	1956 Oct 31	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1956-S92	2435777.50	1956 Oct 31	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1956-S112	2435833.50	1956 Dec 26	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1957-S186	2435842.50	1957 Jan 4	R-11	-	A1-4T	0.000	UNRV	MF	U	-	Test	Z10	-	-
1957-S187	2435863.50	1957 Jan 25	R-11	-	A1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S188	2435870.50	1957 Feb 1	R-11	-	A1-7	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S189	2435871.50	1957 Feb 2	R-11	-	A1-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S190	2435875.50	1957 Feb 6	R-11	-	A1-4	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S192	2435889.50	1957 Feb 20	R-11	-	A2-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S193	2435889.50	1957 Feb 20	R-11	-	A1-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S19	2435922.50	1957 Mar 25	R-11M	-	M1-21	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1957-S22	2435924.50	1957 Mar 27	R-11M	-	M1-24	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1957-S23	2435931.50	1957 Apr 3	R-11M	-	M1-23	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-A158	2435937.50	1957 Apr 9	R-11M	-	M1-25	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-A159	2435939.50	1957 Apr 11	R-11M	-	M1-22	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1957-S77	2436071.50	1957 Aug 21	R-11	-	M684	0.000	UNRV	MS	-	-	Test	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S227	2436072.50	1957 Aug 22	R-11	-	M686	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S69	2436073.50	1957 Aug 23	R-11M	-	M1-26	0.000	UNRV	MS	-	-	Test	Siddiqi	Z10	-
1957-S228	2436073.50	1957 Aug 23	R-11	-	M581	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S229	2436073.50	1957 Aug 23	R-11	-	M583	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S230	2436076.50	1957 Aug 26	R-11M	-	M1-28	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S231	2436077.50	1957 Aug 27	R-11M	-	M1-29	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S232	2436078.50	1957 Aug 28	R-11M	-	M1-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S233	2436080.50	1957 Aug 30	R-11M	-	M1-10	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S234	2436082.50	1957 Sep 1	R-11M	-	M1-27	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S105	2436083.50	1957 Sep 2	R-11M	-	M1-30	0.000	UNRV	MS	-	-	Test	Siddiqi	Z10	-
1957-S269	2436108.50	1957 Sep 27	R-11	-	M689	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S270	2436108.50	1957 Sep 27	R-11	-	M681	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S271	2436117.50	1957 Oct 6	R-11	-	M6816	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S272	2436160.50	1957 Nov 18	R-11	-	M6812	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S273	2436162.50	1957 Nov 20	R-11	-	M68688	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S274	2436168.50	1957 Nov 26	R-11	-	M6814	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S275	2436169.50	1957 Nov 27	R-11	-	M6811	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S276	2436171.50	1957 Nov 29	R-11	-	M6817	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-A163	2436183.50	1957 Dec 11	R-11	-	M6815	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-A164	2436183.50	1957 Dec 11	R-11	-	M6818	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-A165	2436184.50	1957 Dec 12	R-11	-	M6813	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S277	2436188.50	1957 Dec 16	R-11	-	M2-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S278	2436188.50	1957 Dec 16	R-11	-	M2-25	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S279	2436198.50	1957 Dec 26	R-11	-	M3-25T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S280	2436200.50	1957 Dec 28	R-11	-	M3-9	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S281	2436203.50	1957 Dec 31	R-11	-	M4-4T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S282	2436203.50	1957 Dec 31	R-11	-	M4-6	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S311	2436270.50	1958 Mar 8	R-11	-	B1-19	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S50	2436293.50	1958 Mar 31	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1958-S72	2436348.50	1958 May 25	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1958-S73	2436349.50	1958 May 26	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Delo	-	-
1958-S329	2436354.50	1958 May 31	R-11	-	B2-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S330	2436354.50	1958 May 31	R-11	-	B2-67	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S334	2436392.50	1958 Jul 8	R-11	-	M2-12	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S356	2436415.50	1958 Jul 31	R-11	-	M2-21	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S359	2436416.50	1958 Aug 1	R-11	-	M2-7	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S360	2436421.50	1958 Aug 6	R-11	-	M2-22	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S353	2436447.50	1958 Sep 1	R-11	-	B2-23	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S193	2436452.50	1958 Sep 6	R-11FM	-	-	0.000	UNRV	MS	-	-	Test	Zapolskiy	-	-
1958-S354	2436454.50	1958 Sep 8	R-11	-	M2-9	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-A216	2436454.50	1958 Sep 8	R-11	-	M2-24	0.000	UNRV	MF	U	-	Test	Z10	-	-
1958-S355	2436464.50	1958 Sep 18	R-11	-	B2-8	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S357	2436464.50	1958 Sep 18	R-11	-	B2-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S358	2436469.50	1958 Sep 23	R-11	-	B2-4	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S365	2436476.50	1958 Sep 30	R-11	-	B2-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S213	2436481.08	1958 Oct 4 1400	R-11A	-	1-2	0.000	AN	SS	-	AN/	Aeron?	IGY36,Delo,Z10	NK9906-10	Or 1508Z?
1958-S367	2436481.50	1958 Oct 5	R-11M	-	B1-6T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S368	2436484.50	1958 Oct 8	R-11M	-	B1-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S217	2436487.08	1958 Oct 10 1350	R-11A	-	1-1	0.000	MVS	SS	-	FIAN/	Iono-solar	IGY36,Delo	Z10	-
1958-S369	2436506.50	1958 Oct 30	R-11M	-	B2-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S370	2436507.50	1958 Oct 31	R-11M	-	B2-9T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S239	2436507.50	1958 Oct 31	R-11A	-	1-3?	0.000	AN	SS	-	AN/	Aeron?	Delo	-	-
1958-S252	2436513.50	1958 Nov 6	R-11A	-	1-4?	0.000	AN	SS	-	AN/	Aeron?	Delo	Z10	-
1958-S261	2436526.50	1958 Nov 19	R-11A	-	1-5?	0.000	AN	SS	-	AN/	Aeron?	Delo	-	-
1958-S374	2436528.50	1958 Nov 21	R-11M	-	B3-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S375	2436535.50	1958 Nov 28	R-11M	-	B1-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S376	2436539.50	1958 Dec 2	R-11M	-	B3-6T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S293	2436561.04	1958 Dec 23 1300	R-11A	-	1-6	0.000	AN	SS	-	AN/	Aeron?	IGY36,Delo	Z10	-
1958-S297	2436563.05	1958 Dec 25 1310	R-11A	-	1-7	0.000	MVS	SS	-	FIAN/	Ionos/Aeron	IGY36	Delo,Z10	-
1958-S378	2436564.50	1958 Dec 27	R-11	-	B1-8T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S379	2436567.50	1958 Dec 30	R-11M	-	B4-10	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S380	2436567.50	1958 Dec 30	R-11M	-	B4-2T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S293	2436580.50	1959 Jan 12	R-11	-	B1-18T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S294	2436581.50	1959 Jan 13	R-11	-	B1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S295	2436581.50	1959 Jan 13	R-11	-	B1-15	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S298	2436597.50	1959 Jan 29	R-11M	-	B6897	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S299	2436597.50	1959 Jan 29	R-11	-	M3-17	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S300	2436598.50	1959 Jan 30	R-11M	-	B681	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S303	2436631.50	1959 Mar 4	R-11	-	M3-19	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S304	2436631.50	1959 Mar 4	R-11	-	M2-23	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S305	2436639.50	1959 Mar 12	R-11	-	I1-15T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S309	2436640.50	1959 Mar 13	R-11	-	I1-6	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S310	2436657.50	1959 Mar 30	R-11M	-	I2-6	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S311	2436657.50	1959 Mar 30	R-11M	-	I2-15T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S312	2436678.50	1959 Apr 20	R-11M	-	B2-16T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S417	2436681.50	1959 Apr 23	R-11M	-	B2-12T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S418	2436682.50	1959 Apr 24	R-11M	-	B2-6	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S419	2436686.50	1959 Apr 28	R-11	-	I2-3T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S415	2436687.50	1959 Apr 29	R-11M	-	B2-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S321	2436687.50	1959 Apr 29	R-11M	-	B2-14	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S416	2436686.50	1959 Apr 28	R-11	-	I2-9	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S322	2436703.50	1959 May 15	R-11	-	B2-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S323	2436707.50	1959 May 19	R-11	-	B2-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S329	2436725.50	1959 Jun 6	R-11M	-	I1-5T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S330	2436725.50	1959 Jun 6	R-11M	-	I3-1TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S331	2436729.50	1959 Jun 10	R-11M	-	I3-2TS	0.000	UNRV	MS	-	-	Test	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S332	2436732.50	1959 Jun 13	R-11M	-	I1-5TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S341	2436736.50	1959 Jun 17	R-11M	-	I3-4TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S342	2436737.50	1959 Jun 18	R-11M	-	I3-3TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S343	2436739.50	1959 Jun 20	R-11M	-	I1-14	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S344	2436752.50	1959 Jul 3	R-11M	-	I1-23TS	0.000	UNRV	MF	U	-	Test	Z10	-	-
1959-S354	2436763.50	1959 Jul 14	R-11M	-	I4-7T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S355	2436764.50	1959 Jul 15	R-11M	-	I1-18TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S356	2436769.50	1959 Jul 20	R-11M	-	I1-20TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S116	2436770.58	1959 Jul 21 0200	R-11A	-	-	0.000	MVS	SS	-	FIAN/Mandelstam	Ionos/Aeron/Solar X	WDCRF	AASH9-191/Z10	-
1959-S119	2436771.08	1959 Jul 21 1400	R-11A	-	-	0.000	MVS	SS	-	FIAN/Mandelstam	Ionos/Aeron/Solar X	WDCRF	SR3,822/Z10	-
1959-S357	2436773.50	1959 Jul 24	R-11M	-	I1-24TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S358	2436773.50	1959 Jul 24	R-11M	-	I4-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S359	2436776.50	1959 Jul 27	R-11M	-	I10-10T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S360	2436777.50	1959 Jul 28	R-11M	-	I10-7	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S361	2436779.50	1959 Jul 30	R-11M	-	I1-6TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S362	2436780.50	1959 Jul 31	R-11M	-	I7-13T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S363	2436787.50	1959 Aug 7	R-11M	-	I7-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S365	2436797.50	1959 Aug 17	R-11M	-	B4-32	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S366	2436799.50	1959 Aug 19	R-11M	-	B4-31	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S367	2436802.50	1959 Aug 22	R-11M	-	B4-26	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S368	2436814.50	1959 Sep 3	R-11M	-	I11-7	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S369	2436814.50	1959 Sep 3	R-11M	-	I11-3T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S370	2436818.50	1959 Sep 7	R-11M	-	B4-1T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S371	2436819.50	1959 Sep 8	R-11M	-	B4-9T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S375	2436819.50	1959 Sep 8	R-11M	-	B1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S376	2436829.50	1959 Sep 18	R-11M	-	B4-30	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S377	2436833.50	1959 Sep 22	R-11M	-	I5-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S378	2436833.50	1959 Sep 22	R-11M	-	I5-6T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S379	2436836.50	1959 Sep 25	R-11M	-	B4-28	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S380	2436836.50	1959 Sep 25	R-11M	-	B4-27	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S381	2436842.50	1959 Oct 1	R-11M	-	I8-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S382	2436844.50	1959 Oct 3	R-11M	-	I8-10	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S384	2436850.50	1959 Oct 9	R-11M	-	B1-5	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S385	2436856.50	1959 Oct 15	R-11M	-	I12-7T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S386	2436861.50	1959 Oct 20	R-11M	-	I12-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S394	2436898.50	1959 Nov 26	R-11M	-	I13-2T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S395	2436899.50	1959 Nov 27	R-11M	-	I13-12	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S396	2436914.50	1959 Dec 12	R-11M	-	I6-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S397	2436914.50	1959 Dec 12	R-11M	-	I6-6T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S290	2436914.50	1959 Dec 12	R-17	-	VK1-02 (R-11MU)	0.000	MVS	MS	-	-	Test	Z10	ZalogaScud	-
1959-S398	2436919.50	1959 Dec 17	R-11M	-	I14-1T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S399	2436921.50	1959 Dec 19	R-11M	-	I14-0	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S400	2436926.50	1959 Dec 24	R-11	-	B1-25	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S401	2436926.50	1959 Dec 24	R-11	-	B1-16	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S410	2436926.50	1959 Dec 24	R-17	-	VK1-04 (R-11MU)	0.000	MVS	MS	-	-	Test	Z10	-	-
1959-S406	2436927.50	1959 Dec 25	R-11M	-	I15-10	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S407	2436927.50	1959 Dec 25	R-11M	-	I15-2T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S408	2436928.50	1959 Dec 26	R-11M	-	I9-15	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S402	2436929.50	1959 Dec 27	R-11	-	B1-22	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S409	2436929.50	1959 Dec 27	R-11M	-	I9-6T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S403	2436930.50	1959 Dec 28	R-11	-	B1-24	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S404	2436931.50	1959 Dec 29	R-11	-	B1-19	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S405	2436931.50	1959 Dec 29	R-11	-	B1-23	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-A06	2436568.50	1959	R-11FM	-	-	0.000	VMF	MF	U	-	Test	Zapolskiy	-	-
1960-S502	2436941.50	1960 Jan 8	R-17	-	VK1-01	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S503	2436959.50	1960 Jan 26	R-17	-	VK1-03	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S504	2436961.50	1960 Jan 28	R-17	-	VK1-05	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S505	2436966.50	1960 Feb 2	R-17	-	VK1-07	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S435	2436969.50	1960 Feb 5	R-17	-	VK1-06	0.000	MVS	MF	U	-	Test	Z20	KY60	-
1960-S177	2437183.50	1960 Sep 6	R-11A	-	-	0.000	AN	SS	-	AN/	Ionos/Aeron	Uspekhi	-	-
1960-S267	2437187.50	1960 Sep 10	R-11FM	-	-	0.000	VMF	MS	-	-	Test	Zapolskiy	-	-
1960-S278	2437196.50	1960 Sep 19	R-11A	-	-	0.000	AN	SS	-	AN/	Aeron?	Upsekhi	-	-
1960-S283	2437198.50	1960 Sep 21	R-11A	-	-	0.000	AN	SS	-	AN/	Ionos/Aeron	WDCRF	-	-
1961-S35	2437345.50	1961 Feb 15	R-11A	-	-	0.000	AN	SS	-	AN/	Aeron?	Uspekhi	-	-
1961-S47	2437345.85	1961 Feb 15 0820?	R-11A	-	-	0.000	AN	SS	-	FIAN/Mandelstam	Aeron/Eclipse	CR-77710	WDCRF	-
1961-S447	2437542.50	1961 Sep	R-17	-	-	0.000	MVS	MS	-	-	Test	ZalogaScud	-	-
1961-S294	2437565.50	1961 Sep 23	R-11A	-	-	0.000	AN	SS	-	AN/	Aeron?	Uspekhi	-	-
1962-S01	2437664.50	1962	R-11A-MV	-	-	0.000	AN	MS	-	-	Test	NK9906-10	-	-
1962-S02	2437664.50	1962	R-11A-MV	-	-	0.000	AN	MS	-	-	Test	NK9906-10	-	-
1962-S03	2437664.50	1962	R-11A-MV	-	-	0.000	AN	MS	-	-	Test	NK9906-10	-	-
1962-S04	2437664.50	1962	R-11A-MV	-	-	0.000	AN	MS	-	-	Test	NK9906-10	-	-
1962-S05	2437664.50	1962	R-11A-MV	-	-	0.000	AN	MS	-	-	Test	NK9906-10	-	-
1964-A18	2438430.75	1964 Feb 5 0600?	R-17	-	KY-2	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-A21	2438437.00	1964 Feb 11 1200?	R-17	?	KY-2	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-S152	2438470.09	1964 Mar 15 1412:54	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S194	2438493.86	1964 Apr 8 0841	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-A59	2438510.75	1964 Apr 25 0605:26	R-17	?	KY-2	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-S369	2438594.69	1964 Jul 18 0430	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S424	2438619.63	1964 Aug 12 0300:12	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-A126	2438641.20	1964 Sep 2 1645	R-17	?	KY-2	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-S515	2438678.79	1964 Oct 10 0700:04	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S524	2438685.01	1964 Oct 16 1210	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S550	2438698.01	1964 Oct 29 1215:02	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S652	2438727.97	1964 Nov 28 1114:26	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S697	2438750.91	1964 Dec 21 0944:59	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S703	2438760.50	1965	R-17	-	KY-3 (Scud C)	0.000	MVS	MS	-	-	Test	ZalogaScud	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S39	2438776.13	1965 Jan 15 1500:03	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S57	2438790.72	1965 Jan 30 0515	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S95	2438804.00	1965 Feb 12 1200:06	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-A33	2438811.77	1965 Feb 20 0630:02	R-17	?	KY-2	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1965-S136	2438824.96	1965 Mar 5 1100:21	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S159	2438832.85	1965 Mar 13 0820:31	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S251	2438874.92	1965 Apr 24 1000:25	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S275	2438887.81	1965 May 7 0728	R-11	?	-	0.000	RVSN	MS	-	-	OT	MS5-65	-	-
1965-S277	2438888.95	1965 May 8 1047	R-11	?	-	0.000	RVSN	MS	-	-	OT	MS5-65	-	-
1965-S292	2438895.30	1965 May 14 1912	R-11	?	-	0.000	RVSN	MS	-	-	OT	MS5-65	-	-
1965-S293	2438895.83	1965 May 15 0800	R-11	?	-	0.000	RVSN	MS	-	-	OT	MS5-65	-	-
1965-S297	2438898.88	1965 May 18 0907	R-11	?	-	0.000	RVSN	MS	-	-	OT	MS5-65	-	-
1965-S315	2438907.23	1965 May 26 1730	R-17	?	KY-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1973-S478	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	0.000	EGA	MS	-	-	Weapon	Sirrs	-	-
1973-S479	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	0.000	EGA	MS	-	-	Weapon	Sirrs	-	-
1973-S480	2441978.20	1973 Oct 22 1650?	R-17	-	Scud B	0.000	EGA	MS	-	-	Weapon	Sirrs	-	-
1977-S318	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S319	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S320	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S321	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S322	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S323	2443416.50	1977 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Training	CIAWMD	-	-
1977-S331	2443447.50	1977 Nov	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1978-S280	2443508.50	1978?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1979-S262	2444145.50	1979 Sep 29	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	ZalogaScud	-	-
1980-S249	2444543.50	1980 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S197	2444694.50	1981 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S198	2444694.50	1981 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S199	2444694.50	1981 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S200	2444694.50	1981 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S201	2444694.50	1981 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S202	2444755.50	1981 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S203	2444755.50	1981 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S204	2444755.50	1981 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S205	2444908.50	1981 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S206	2444908.50	1981 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S207	2444938.50	1981 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1981-S208	2444938.50	1981 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S225	2445089.50	1982 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S226	2445089.50	1982 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S227	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S228	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S229	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S230	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S231	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S232	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S233	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S234	2445150.50	1982 Jul?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S235	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S236	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S237	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S238	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S239	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S240	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S241	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S242	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S243	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S244	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S245	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S246	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S247	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S248	2445212.50	1982 Sep?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S249	2445303.50	1982 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1982-S250	2445303.50	1982 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S262	2445334.50	1983?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1983-S263	2445334.50	1983?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1983-S220	2445365.50	1983 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S221	2445365.50	1983 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S222	2445365.50	1983 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S223	2445365.50	1983 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S224	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S225	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S226	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S227	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S228	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S229	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S230	2445454.50	1983 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S231	2445546.50	1983 Aug?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S232	2445546.50	1983 Aug?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S233	2445607.50	1983 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S234	2445607.50	1983 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S235	2445607.50	1983 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S236	2445607.50	1983 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S237	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S238	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S239	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-S240	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S241	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S242	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S243	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S244	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S245	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S246	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S247	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S248	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S249	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S250	2445638.50	1983 Nov?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S251	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S252	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S253	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S254	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S255	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1983-S256	2445668.50	1983 Dec?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S210	2445699.50	1984?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1984-S147	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S148	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S149	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S150	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S151	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S152	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S153	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S154	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S155	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S156	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S157	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S158	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S159	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S160	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S161	2445730.50	1984 Feb?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S162	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S163	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S164	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S165	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S166	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S167	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S168	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S169	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S170	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S171	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S172	2445759.50	1984 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S73	2445790.50	1984 Apr	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S279	2445790.50	1984 Apr?	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S280	2445790.50	1984 Apr?	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S173	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S174	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S175	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S176	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S177	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S178	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S179	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S200	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S181	2445851.50	1984 Jun?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S281	2445943.50	1984 Sep?	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S112	2445943.50	1984 Sep?	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S113	2445943.50	1984 Sep	Hwasong 5	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1984-S140	2445967.50	1984 Sep 24	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	ZalogaScud	-	-
1984-S182	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S183	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S184	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S185	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S186	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S187	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S188	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S189	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S190	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S191	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S192	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S193	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S194	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S195	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S196	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S197	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S198	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S199	2445973.50	1984 Oct?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1984-S141	2446004.50	1984 Oct 31	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	ZalogaScud	-	-
1985-S152	2446065.50	1985	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	ZalogaScud	-	-
1985-S168	2446065.50	1985?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1985-S161	2446124.50	1985 Mar?	R-17	-	-	0.000	IQ223	MS	-	-	Weapon	CIAWMD	ZalogaScud	-
1985-S153	2446136.50	1985 Mar 12	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S154	2446138.50	1985 Mar 14	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S155	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S156	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-S157	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S158	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S159	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S160	2446124.50	1985 Mar	Shahab 1	-	-	0.000	IR	MS	-	-	Weapon	nti.org	-	-
1985-S163	2446155.50	1985 Apr?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1985-S164	2446185.50	1985 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1985-S165	2446185.50	1985 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1985-S166	2446185.50	1985 May?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1985-S167	2446277.50	1985 Aug?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1986-S135	2446430.50	1986	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1986-S136	2446489.50	1986 Mar?	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1986-S123	2446535.50	1986 Apr 15	R-17	-	-	0.000	LY	MS	-	-	Weapon	nti.org	-	-
1986-S124	2446535.50	1986 Apr 15	R-17	-	-	0.000	LY	MS	-	-	Weapon	nti.org	-	-
1986-S194	2446550.50	1986 May	Hwasong 5	?	-	0.000	KPA	MS	-	-	Test	nti.org	-	-
1987-S190	2446795.50	1987 Jan?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1987-A24	2446837.50	1987 Feb 11	R-17	-	-	0.000	IQ	MF	U	-	Weapon/Test	UNMOVIC	-	-
1987-S191	2446854.50	1987 Mar?	R-17	-	Scud B	0.000	IQ224	MS	-	-	Weapon	CIAWMD	-	-
1987-S188	2446906.50	1987 Apr 21	R-17	-	-	0.000	IQ	MF	U	-	Weapon/Test	UNMOVIC	-	-
1987-S189	2446913.50	1987 Apr 28	R-17	-	-	0.000	IQ	MF	U	-	Weapon/Test	UNMOVIC	-	-
1987-S186	2447010.50	1987 Aug 3	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon/Test	ZalogaScud	UNMOVIC	-
1987-S187	2447157.50	1987 Dec 28	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon/Test	UNMOVIC	-	-
1988-S149	2447220.50	1988 Feb 29	Al Hussein	?	-	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S150	2447220.50	1988 Feb 29	Al Hussein	?	-	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S151	2447220.50	1988 Feb 29	Al Hussein	?	-	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S159	2447220.50	1988 Mar?	R-17	-	Scud B	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S152	2447221.50	1988 Mar 1	Al Hussein	?	-	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S153	2447221.50	1988 Mar 1	Al Hussein	?	-	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S154	2447221.50	1988 Mar 1	Al Hussein	?	[total up to 9/2d]	0.000	IQ	MS	-	-	Weapon	DCI-NID-880301	-	-
1988-S155	2447276.50	1988 Apr 25	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1988-S156	2447339.50	1988 Jun 27	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1988-S157	2447340.50	1988 Jun 28	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1988-S158	2447341.50	1988 Jun 29	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1989-S118	2447569.50	1989 Feb 12	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1989-S119	2447569.50	1989 Feb 12	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1989-S121	2447734.50	1989 Jul 27	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1989-S120	2447759.50	1989 Aug 21	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	nti.org	-	-
1989-S123	2447769.50	1989 Sep	R-17VTO	-	Aerofon	0.000	RVSN	MS	-	-	Test	KY60	-	-
1990-S178	2447893.50	1990 Jan 2	Short Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S179	2447893.50	1990 Jan 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S180	2447893.50	1990 Jan 2	Short Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S181	2447893.50	1990 Jan 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S182	2447989.50	1990 Apr 8	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S183	2447989.50	1990 Apr 8	Short Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S184	2447999.50	1990 Apr 18	Al Hijara	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S99	2448042.50	1990 Jun	Hwasong 6	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1990-S190	2448069.50	1990 Jun 27	Al Hussein	-	H4-1	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S117	2448118.50	1990 Aug 15	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	USNIP	-	-
1990-S165	2448227.50	1990 Dec 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S166	2448227.50	1990 Dec 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S167	2448227.50	1990 Dec 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S187	2448251.50	1990 Dec 26	R-17	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S185	2448253.50	1990 Dec 28	Al Abbas	-	To Ar Rutba	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1990-S186	2448253.50	1990 Dec 28	Al Abbas	-	-	0.000	IQ	MS	-	-	Test	UNMOVIC	-	-
1991-S17	2448273.50	1991 Jan 17	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S18	2448275.50	1991 Jan 19	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S19	2448275.50	1991 Jan 19	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S20	2448275.50	1991 Jan 19	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S21	2448277.28	1991 Jan 20 1843	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S22	2448277.28	1991 Jan 20 1843	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S23	2448277.85	1991 Jan 21 0829	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S24	2448277.85	1991 Jan 21 0829	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S25	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S26	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S27	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S28	2448277.90	1991 Jan 21 0942	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S29	2448278.30	1991 Jan 21 1918	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S30	2448278.50	1991 Jan 22	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S32	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S33	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S34	2448278.53	1991 Jan 22 0041	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S35	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S36	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S37	2448278.67	1991 Jan 22 0410	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S38	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S39	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S40	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S41	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S42	2448280.33	1991 Jan 23 1954	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S43	2448281.50	1991 Jan 25	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S44	2448282.31	1991 Jan 25 1923	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S45	2448282.31	1991 Jan 25 1923	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S46	2448282.50	1991 Jan 26	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S47	2448282.52	1991 Jan 26 0028	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S49	2448283.32	1991 Jan 26 1946	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S50	2448285.25	1991 Jan 28 1755	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S53	2448287.50	1991 Feb	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-S54	2448287.50	1991 Feb	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S55	2448287.50	1991 Feb	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S56	2448289.50	1991 Feb 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S57	2448289.50	1991 Feb 2	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S58	2448290.40	1991 Feb 2 2141	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S63	2448295.45	1991 Feb 7 2254	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S65	2448299.31	1991 Feb 11 1920	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S68	2448301.86	1991 Feb 14 0845	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S69	2448301.86	1991 Feb 14 0845	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S70	2448303.46	1991 Feb 15 2301	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S73	2448309.09	1991 Feb 21 1406	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S74	2448309.09	1991 Feb 21 1406	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S75	2448309.25	1991 Feb 21 1800	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S76	2448309.48	1991 Feb 21 2331	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S78	2448310.58	1991 Feb 23 0159	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S79	2448310.58	1991 Feb 23 0159	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S81	2448311.56	1991 Feb 24 0132	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S80	2448311.50	1991 Feb 24	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	usatoday.com	-	-
1991-S82	2448311.77	1991 Feb 24 0623	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S83	2448311.89	1991 Feb 24 0917	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S192	2448312.50	1991 Feb 25?	Al Hijara	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S193	2448312.50	1991 Feb 25?	Al Hijara	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S194	2448312.50	1991 Feb 25?	Al Hijara	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S195	2448312.50	1991 Feb 25?	Al Hijara	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S196	2448312.50	1991 Feb 25?	Al Hijara	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S84	2448313.23	1991 Feb 25 1732	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S85	2448313.43	1991 Feb 25 2226	Al Hussein	-	-	0.000	IQ	MS	-	-	Weapon	gulflink.osd.mil	-	-
1991-S101	2448376.50	1991 May	Shahab 2	-	-	0.000	IR	MS	-	-	Test	Bermudez	-	-
1991-S121	2448437.50	1991 Jul	Hwasong 6	-	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1992-S58	2448803.50	1992 Jul	Hwasong 6	-	-	0.000	SYMC	MS	-	-	Test	Bermudez	-	-
1992-S59	2448803.50	1992 Jul	Hwasong 6	-	-	0.000	SYMC	MS	-	-	Test	nti.org	-	-
1993-S38	2449136.50	1993 May 29	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1993-S39	2449136.50	1993 May 29	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1993-S40	2449137.50	1993 May 30	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Bermudez	-	-
1994-S44	2449533.50	1994 Q3	Hwasong 6	-	Scud C	0.000	SYMC	MS	-	-	Test	Bermudez	-	-
1994-S94	2449484.50	1994 May 12	Hwasong 6	-	-	0.000	YSP	MS	-	-	Test	WPost940512	ZalogaScud	-
1994-S95	2449503.50	1994 Jun	Hwasong 6	-	-	0.000	YSP	MS	-	-	Test	ZalogaScud	-	-
1994-S96	2449533.50	1994 Jul	Hwasong 6	-	-	0.000	YSP	MS	-	-	Test	ZalogaScud	-	-
1994-S100	2449662.50	1994 Nov 6	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1994-S101	2449662.50	1994 Nov 6	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1994-S102	2449662.50	1994 Nov 6	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1997-S09	2450486.50	1997 Feb 7	Scud	-	FMA 1	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	KMR-WWW	-
1997-S28	2450527.50	1997 Mar 20	Scud	-	FMA 2	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	KMR-WWW	-
1999-S81	2451339.50	1999 Jun 10	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1999-S82	2451339.50	1999 Jun 10	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1999-S83	2451339.50	1999 Jun 10	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1999-S84	2451484.50	1999 Nov 2	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1999-S85	2451484.50	1999 Nov 2	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
1999-S86	2451484.50	1999 Nov 2	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
2001-S66	2452017.50	2001 Apr 18	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
2001-S67	2452017.50	2001 Apr 18	Shahab 1	?	-	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
2001-S68	2452017.50	2001 Apr 18	Shahab 1	?	[many launches]	0.000	IR	MS	-	-	Weapon	IISS-IR	-	-
2001-S64	2452091.50	2001 Jul 1?	Scud B	-	-	0.000	SYMC	MS	-	-	Test	www.nti.org	-	-
2002-A02	2452593.31	2002 Nov 14 1925	Scud B	-	FMA 3	0.000	MDA	MS	-	-	Target	vafb.mil	-	-
2002-S74	2452603.90	2002 Nov 25 0930	Scud B	-	FMA 4	0.000	MDA	MS	-	-	Target	LompocRecord	-	-
2003-S60	2452677.50	2003 Feb 7	Scud	-	FMA 5	0.000	MDA?	MS	-	-	Test	wsmr.army.mil	-	-
2004-M02	2453216.22	2004 Jul 29 1722?	Scud	-	FMA 6	0.000	MDA	MS	-	-	Target	Wire	dtic.mil	-
2005-S23	2453517.50	2005 May 27	Scud B	-	-	0.000	SYMC	MS	-	-	Test	Wire	-	-
2006-S34	2453921.27	2006 Jul 4 1832	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2006-S36	2453921.42	2006 Jul 4 2212	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2007-S06	2454127.72	2007 Jan 27 0518?	Scud	-	THAAD FTT-06 Target	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2007-S18	2454196.78	2007 Apr 6 0642	Scud	?	THAAD FTT-07 Target	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2007-S52	2454400.80	2007 Oct 27 0715	Scud	?	THAAD FTT-08 Target	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2008-S26	2454623.26	2008 Jun 5 1813	Scud	-	Aegis FTM-14 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2008-S44	2454727.59	2008 Sep 18 0205	Scud	?	THAAD FTT-10 Target	0.000	SMDC	MF	U	-	Target	mda.mil	-	-
2009-S15	2454908.52	2009 Mar 18 0025?	Scud	?	THAAD FTT-10a Target	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2009-S77	2455016.57	2009 Jul 4 0145	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S78	2455016.62	2009 Jul 4 0300	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S79	2455016.74	2009 Jul 4 0550	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S80	2455016.80	2009 Jul 4 0710	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S81	2455016.86	2009 Jul 4 0840	Hwasong 6	-	-	0.000	KPAMJ	MS	-	-	Test	Wire	-	-
2009-S46	2455101.50	2009 Sep 27	Shahab 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2009-S47	2455101.50	2009 Sep 27	Shahab 2	-	Shahab 2	0.000	IR	MS	-	-	Test	Wire	-	-
2010-S17	2455239.70	2010 Feb 12 0444	Scud	-	ALTB Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2010-S46	2455376.81	2010 Jun 29 0732	Scud	-	THAAD FTT-14 target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2010-S54	2455428.50	2010 Aug 20	Qiam-1	-	Qiam-1	0.000	IR	MS	-	-	Test	Wire	-	-
2010-S57	2455440.50	2010 Sep 1	Scud	?	ALTB FEL-01b Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2011-A01	2455615.77	2011 Feb 23 0630	Scud	?	Arrow 2 Target	0.000	IAI	MS	-	-	ATBM Test	mda.mil	-	-
2011-S24	2455740.50	2011 Jun 28	Shahab 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2011-S58	2455740.50	2011 Jun 28	Shahab 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2011-S25	2455740.50	2011 Jun 28	Shahab 2	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2011-S59	2455740.50	2011 Jun 28	Shahab 2	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2011-S46	2455839.75	2011 Oct 5 0556	Scud	?	THAAD FTT-12 Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2012-S36	2456111.50	2012 Jul 3	Shahab 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2012-S37	2456111.50	2012 Jul 3	Shahab 2	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2012-S95	2456120.50	2012 Jul 12	Scud	-	-	0.000	SYMC	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2012-S63	2456225.50	2012 Oct 25?	Scud	-	FTI-01 PAC-3 Target	0.000	MDA	MS	-	-	ABM Test	www.mda.mil	-	-
2012-S78	2456271.50	2012 Dec 10	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S79	2456271.50	2012 Dec 10	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S84	2456271.50	2012 Dec 10?	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S85	2456271.50	2012 Dec 10?	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S86	2456271.50	2012 Dec 10?	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S87	2456271.50	2012 Dec 10?	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	NYT121212	JDW121219	-
2012-S80	2456281.50	2012 Dec 20	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	JDW121219	-	-
2012-S81	2456281.50	2012 Dec 20	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	JDW121219	-	-
2012-S82	2456281.50	2012 Dec 20	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	JDW121219	-	-
2012-S83	2456281.50	2012 Dec 20	Scud	-	-	0.000	SYMC	MS	-	-	Weapon	JDW121219	-	-
2013-S44	2456297.50	2013 Jan 5	Scud	?	Scud	0.000	SYMC	MS	-	-	Weapon	yallasouriya	-	-
2013-S10	2456338.50	2013 Feb 15	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S11	2456338.50	2013 Feb 15?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S12	2456339.50	2013 Feb 16?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S13	2456339.50	2013 Feb 16?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S14	2456340.50	2013 Feb 17?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S15	2456340.50	2013 Feb 17?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S16	2456341.50	2013 Feb 18?	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S17	2456342.50	2013 Feb 19	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S18	2456345.50	2013 Feb 22	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S19	2456345.50	2013 Feb 22	Scud	?	-	0.000	SYMC	MS	-	-	Weapon	NYT130222	-	-
2013-S101	2456640.50	2013 Dec 14	Shahab 1	-	Kavoshgar Pazhuhesh	0.000	IRSA	SS	-	IRSA/	Bio	nasaspaceflight.com	kavosghar.ari.ac.ir	-
2014-S88	2456698.50	2014 Feb 10	Qiam-1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2014-S08	2456715.86	2014 Feb 27 0842	Hwasong 5	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S09	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S10	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S11	2456715.86	2014 Feb 27 0842?	Hwasong 5	?	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S12	2456719.39	2014 Mar 2 2119	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S13	2456719.39	2014 Mar 2 2119	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S35	2456837.33	2014 Jun 28 1950	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	UN/S/2015/131	mod.go.jp	-
2014-S36	2456837.33	2014 Jun 28 1958	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	UN/S/2015/131	mod.go.jp	-
2014-S46	2456847.29	2014 Jul 8 1900?	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	mod.go.jp	-	or CHIHA?
2014-S47	2456847.31	2014 Jul 8 1920?	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	mod.go.jp	-	or CHIHA?
2014-S38	2456851.18	2014 Jul 12 1620?	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S39	2456851.19	2014 Jul 12 1630?	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2014-S86	2456865.03	2014 Jul 26 1240	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	UN/S/2015/131	-	-
2015-M01	2457083.40	2015 Mar 1 2133	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	koreaherald.com	-	-
2015-M02	2457083.40	2015 Mar 1 2141	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	koreaherald.com	-	-
2015-S32	2457179.50	2015 Jun 6	Hwasong 6	-	Scud C	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2015-S36	2457203.50	2015 Jun 30	Hwasong 6	-	Scud C	0.000	ANSAL	MS	-	-	Weapon	Wire	-	Unconfirmed
2015-S46	2457260.50	2015 Aug 26	Hwasong 6	?	Scud C or Qahir-1?	0.000	ANSAL	MS	-	-	Weapon	Wire	-	Unconfirmed
2016-S12	2457455.50	2016 Mar 8?	Shahab 1	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S13	2457455.50	2016 Mar 8?	Shahab 2	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S14	2457456.50	2016 Mar 9?	Qiam-1	-	Qiam-1	0.000	IR	MS	-	-	Test	Wire	-	-
2016-S17	2457457.35	2016 Mar 9 2020	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S18	2457457.35	2016 Mar 9 2020	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S43	2457588.36	2016 Jul 18 2045	Hwasong 6	?	Scud C	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S44	2457588.37	2016 Jul 18 2050?	Hwasong 6	?	Scud C?	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S72	2457633.50	2016 Sep 2	Burkan-1H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-S52	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S53	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S54	2457636.63	2016 Sep 5 0314	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S73	2457641.50	2016 Sep 10	Burkan-1H	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-S74	2457670.50	2016 Oct 9	Burkan-1H	-	-	0.000	ANSAL	MS	-	-	Weapon	Jane's	-	-
2016-S75	2457688.50	2016 Oct 27	Burkan-1H	-	-	0.000	ANSAL	MS	-	-	Weapon	Jane's	-	-
2016-S78	2457707.50	2016 Nov 15	Qiam-1	-	Qiam-1	0.000	IR	MS	-	-	Test	UN.S/2017/1030	-	-
2017-S96	2457789.50	2017 Feb 5	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S19	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S20	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S21	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S22	2457818.44	2017 Mar 5 2234	Hwasong 9	-	Scud ER?	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S97	2457830.50	2017 Mar 18	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S98	2457892.50	2017 May 19	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S110	2457922.50	2017 Jun 18	Qiam-1	?	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S99	2457957.50	2017 Jul 23	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S100	2457962.50	2017 Jul 28	Burkan-1H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S35	2457902.36	2017 May 28 2039	Hwasong 9	?	KN-18	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S69	2457991.41	2017 Aug 25 2149	Hwasong 5	-	KN-21	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-A10	2457991.42	2017 Aug 25 2207	Hwasong 5	-	KN-21	0.000	JRG	MF	U	-	Test	Wire	-	-
2017-S70	2457991.43	2017 Aug 25 2219	Hwasong 5	-	KN-21	0.000	JRG	MS	-	-	Test	Wire	-	-
2017-S101	2458062.21	2017 Nov 4 1707	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-S105	2458106.50	2017 Dec 19	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S11	2458148.50	2018 Jan 30	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S15	2458203.35	2018 Mar 25 2025?	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S21	2458219.50	2018 Apr 11	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S32	2458246.50	2018 May 8	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S33	2458246.50	2018 May 8	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S45	2458293.50	2018 Jun 24	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S46	2458293.50	2018 Jun 24	Burkan-2H	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-S54	2458392.50	2018 Oct 1 0000?	Qiam-1	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2018-S57	2458392.50	2018 Oct 1 0000?	Qiam-1	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2019-S42	2458696.50	2019 Aug 1?	Burkan-3	-	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2020-A01	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	0.000	IR	MF	U	-	Weapon	Wire	-	-
2020-A02	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	0.000	IR	MF	U	-	Weapon	Wire	-	-
2020-A03	2458856.44	2020 Jan 7 2230?	Qiam-1	-	-	0.000	IR	MF	U	-	Weapon	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2020-S01	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S02	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S03	2458856.46	2020 Jan 7 2301?	Qiam-1	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S18	2458900.40	2020 Feb 20 2130?	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2020-S19	2458937.35	2020 Mar 28 2020?	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2021-S19	2459262.50	2021 Feb 17	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2021-S57	2459462.50	2021 Sep 5	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S05	2459596.50	2022 Jan 17	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S06	2459596.50	2022 Jan 17	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S07	2459596.50	2022 Jan 17	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S08	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S09	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S10	2459603.51	2022 Jan 24 0015?	Zulfiqar	YE	-	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2022-S111	2459887.02	2022 Nov 3 1235	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S112	2459887.03	2022 Nov 3 1239	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-
2022-S113	2459887.03	2022 Nov 3 1242	Hwasong 6	?	-	0.000	KPA	MS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S41	2436011.50	1957 Jun 22	R-12	-	M2-3	63M No. 1 LKI1-1	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1957-S49	2436023.50	1957 Jul 4	R-12	-	M2-4	63M No. 2 LKI1-2	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1957-S50	2436032.50	1957 Jul 13	R-12	-	M3-5	63M No. 3 LKI1-3	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1957-S51	2436046.50	1957 Jul 27	R-12	-	M4-7	63M No. 4 LKI1-4	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1957-S70	2436052.50	1957 Aug 2	R-12	-	M4-8	63M No. 5 LKI1-5	MGCh 8F12	-	-	GTsP-4	LC21	-	-	300?	-	(BALKH)
1957-S71	2436065.50	1957 Aug 15	R-12	-	M5-9	63M No. 6 LKI1-6	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1957-S101	2436079.50	1957 Aug 29	R-12	-	M3-6	63M No. 7 LKI1-7	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S59	2436350.50	1958 May 27	R-12	-	B1-9	K63 No. 1 LKI2-1	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S74	2436358.50	1958 Jun 4	R-12	-	B1-8	63M No. 8 LKI1-8	MGCh 8F12	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1958-S75	2436367.50	1958 Jun 13	R-12	-	B1-10	K63 LKI2-2	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S76	2436373.50	1958 Jun 19	R-12	-	B1-11	K63 LKI2-3	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S112	2436435.50	1958 Aug 20	R-12	-	B1-7	K63 SI-1	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	826	-
1958-S113	2436438.50	1958 Aug 23	R-12	-	B1-12	K63 SI-2	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	826	-
1958-S187	2436454.50	1958 Sep 8	R-12	-	B1-5	K63 SI-3	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	1167	-
1958-S188	2436469.50	1958 Sep 23	R-12	-	B1-4	K63 SI-4	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S209	2436478.50	1958 Oct 2	R-12	-	B1-3	K63 SI-5	MGCh 8F12/1X49	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S210	2436490.50	1958 Oct 14	R-12	-	B1-6	K63 SI-6	MGCh 8F12/1X49	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S240	2436531.50	1958 Nov 24	R-12	-	B1-15	K63 SI-7	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S272	2436541.50	1958 Dec 4	R-12	-	B1-13	K63 SI-8	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S273	2436547.50	1958 Dec 10	R-12	-	B1-14	K63 SI-9	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S284	2436549.50	1958 Dec 12	R-12	-	B1-18	8K63 KI-1 Kontrol'niy	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S295	2436561.50	1958 Dec 24	R-12	-	B1-17	8K63 KI-2	MGCh 8F12	Tac pad	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S298	2436562.50	1958 Dec 25	R-12	-	B2-15T	8K63 KI-3	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S300	2436564.50	1958 Dec 27	R-12	-	B1-16	8K63 KI-4	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1958-S302	2436567.50	1958 Dec 30	R-12	-	B3-20T	8K63 UBP-1	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S38	2436657.50	1959 Mar 30	R-12	-	I1-20T	8K63 UBP-2	MGCh 8F12 Gruzomaket	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S46	2436669.50	1959 Apr 11	R-12	-	I1-5T	8K63 UBP-3	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S47	2436672.50	1959 Apr 14	R-12	-	I1-3T	8K63 UBP-4	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S57	2436687.50	1959 Apr 29	R-12	-	I2-1	8K63 UBP-5	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S66	2436700.50	1959 May 12	R-12	-	IO1-08T	8K63 UBP-6	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S70	2436702.50	1959 May 14	R-12	-	I2-20T	8K63 UBP-7	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S72	2436703.50	1959 May 15	R-12	-	I2-2	8K63 UBP-8	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S79	2436718.50	1959 May 30	R-12	-	I3-20T	8K63 UBP-9	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S81	2436721.50	1959 Jun 2	R-12	-	IO1-20T	8K63 UBP-10	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S87	2436724.50	1959 Jun 5	R-12	-	I2-3	8K63 UBP-11	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S88	2436736.50	1959 Jun 17	R-12	-	I3-10T	8K63 UBP-12	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S123	2436773.50	1959 Jul 24	R-12	-	ID4-20T	8K63 UBP-13	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S126	2436775.50	1959 Jul 26	R-12	-	IO2-20T	8K63 UBP-14	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S127	2436777.50	1959 Jul 28	R-12	-	B2-5	8K63 UBP-15	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S128	2436777.50	1959 Jul 28	R-12	-	B2-8	8K63 UBP-16	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S131	2436780.50	1959 Jul 31	R-12	-	B2-10T	8K63 UBP-17	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S136	2436787.50	1959 Aug 7	R-12	-	IO1-11T	8K63 UBP-18	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-A136	2436793.50	1959 Aug 13	R-12	-	IO1-067B	8K63 UBP-19	MGCh 8F12	-	-	GTsP-4	LC21	-	-	1	-	(BALKH)
1959-S149	2436806.50	1959 Aug 26	R-12	-	ID6-20T	8K63 UBP-20	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S154	2436808.50	1959 Aug 28	R-12	-	IP2-5T	8K63 UBP-21	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-A156	2436813.50	1959 Sep 2	R-12	-	ID3-19Sh	8K63 ShPU Test 1	MGCh 8F12	-	-	GTsP-4	Mayak-1	-	-	50?	-	(BALKH)
1959-S161	2436816.50	1959 Sep 5	R-12	-	IP2-4T	8K63 UBP-22	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S172	2436826.50	1959 Sep 15	R-12	-	I1-4T	8K63 UBP-23	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S186	2436836.50	1959 Sep 25	R-12	-	BD2-7	8K63 UBP-24	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S187	2436839.50	1959 Sep 28	R-12	-	ID7-20T	8K63 UBP-25	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S201	2436849.50	1959 Oct 8	R-12	-	IO3-20T	8K63 UBP-26	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-A171	2436851.50	1959 Oct 10	R-12	-	B2-3	8K63 UBP-27	-	-	-	GTsP-4	LC21	-	-	50?	-	BALKH
1959-S202	2436851.50	1959 Oct 10	R-12	-	IP4-20T	8K63 UBP-28	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S221	2436866.50	1959 Oct 25	R-12	-	ID8-20T	8K63 UBP-29	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-A183	2436868.50	1959 Oct 27	R-12	-	B2-9	8K63 UBP-30	-	-	-	GTsP-4	LC21	-	-	1	-	BALKH
1959-S254	2436902.50	1959 Nov 30	R-12	-	ID9-20T	8K63 UBP-31	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S270	2436918.50	1959 Dec 16	R-12	-	IO4-20T	8K63 UBP-32	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S273	2436920.50	1959 Dec 18	R-12	-	IP5-10T	8K63 UBP-33	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1959-S275	2436923.42	1959 Dec 20 2200	R-12	-	ID3-24Sh	8K63 ShPU Test 2	MGCh 8F12	-	-	GTsP-4	Mayak-2	-	-	402?	-	BALKH
1959-S279	2436929.50	1959 Dec 27	R-12	-	ID3-25Sh	8K63 ShPU Test 3	MGCh 8F12	-	-	GTsP-4	Mayak-2	-	-	402?	-	BALKH
1959-S280	2436930.50	1959 Dec 28	R-12	-	ID10-20T	8K63 UBP-34	MGCh 8F12	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S448	2436933.50	1960	R-12	-	-	8K63 UBP	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S14	2436951.50	1960 Jan 18	R-12	-	LO1-20T	8K63 UBP-35?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S25	2436962.50	1960 Jan 29	R-12	-	LD1-20T	8K63 UBP-36?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-A46	2436978.09	1960 Feb 13 1403	R-12	-	LP1-20T	8K63 UBP-37?	-	-	-	GTsP-4	LC21	-	-	2?	-	BALKH
1960-S56	2437013.50	1960 Mar 20	R-12	-	LD2-20P	8K63 UBP-38?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S60	2437017.50	1960 Mar 24	R-12	-	LD3-20T	8K63 UBP-39?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S63	2437018.50	1960 Mar 25	R-12	-	B2-11T	8K63 UBP-40?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S65	2437021.50	1960 Mar 28	R-12	-	B2-12T	8K63 UBP-41?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S68	2437022.50	1960 Mar 29	R-12	-	LP1-10T	8K63 UBP-42?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S69	2437024.50	1960 Mar 31	R-12	-	2LO2-20T	8K63 UBP-43?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S89	2437053.50	1960 Apr 29	R-12	-	2LD5-20T	8K63 UBP-44?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S93	2437059.50	1960 May 5	R-12	-	2LO3-20T	8K63 UBP-45?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S95	2437060.50	1960 May 6	R-12	-	2LP2-1T	8K63 UBP-46?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S91	2437080.50	1960 May 26	R-12	-	LD4-1	8K63 UBP-47?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S111	2437084.50	1960 May 30	R-12	-	2LO4-20T	8K63 UBP-48?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S112	2437088.50	1960 Jun 3	R-12	-	LD4-2	8K63 UBP-49?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S113	2437094.50	1960 Jun 9	R-12	-	LD4-3	8K63 UBP-50?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S143	2437109.50	1960 Jun 24	R-12	-	LD6-20T	8K63 UBP-51?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S152	2437114.50	1960 Jun 29	R-12	-	2LO5-20T	8K63 UBP-52?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S154	2437122.50	1960 Jul 7	R-12	-	LD4-4	8K63 UBP-53?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S155	2437125.50	1960 Jul 10	R-12	-	LD4-5	8K63 UBP-54?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S170	2437127.50	1960 Jul 12	R-12	-	LD1-7	8K63 UBP-55?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S171	2437128.50	1960 Jul 13	R-12	-	2LD7-20T	8K63 UBP-56?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S157	2437132.50	1960 Jul 17	R-12	-	LD4-6	8K63 UBP-58?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S156	2437136.50	1960 Jul 21	R-12	-	ID5-1TS	8K63 UBP-57? 29 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S192	2437139.50	1960 Jul 24	R-12	-	ID10-18Sh	8K63 UBP-59?	-	-	-	GTsP-4	LC21	-	-	402?	1757	BALKH
1960-S195	2437141.50	1960 Jul 26	R-12	-	LP1-2	8K63 UBP-60?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S199	2437143.50	1960 Jul 28	R-12	-	LP1-8	8K63 UBP-61?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S203	2437144.50	1960 Jul 29	R-12	-	2LD8-20T	8K63 UBP-62?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-A186	2437148.50	1960 Aug 2	R-12	-	IO3-1TKL	8K63 UBP-63?	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1960-S220	2437150.50	1960 Aug 4	R-12	-	2LP3-20T	8K63 UBP-64?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S208	2437150.50	1960 Aug 4	R-12	-	LP1-1	8K63 UBP-71?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S223	2437154.50	1960 Aug 8	R-12	-	LP1-4	8K63 UBP-66?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S228	2437156.50	1960 Aug 10	R-12	-	ID5-2TS	8K63 UBP-68?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S207	2437156.50	1960 Aug 10	R-12	-	LP1-5	8K63 UBP-67?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S233	2437157.50	1960 Aug 11	R-12	-	2OL06-20T	8K63 UBP-69?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S236	2437158.50	1960 Aug 12	R-12	-	LP1-6	8K63 UBP-70?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S248	2437163.50	1960 Aug 17	R-12	-	ID5-3TS	8K63 UBP-72?	-	-	-	GTsP-4	LC21	-	-	402?	1168	BALKH?
1960-S301	2437176.50	1960 Aug 30	R-12	-	2LD9-20TS	8K63 UBP-85?	-	-	-	GTsP-4	Mayak-2	-	-	402?	1948	BALKH
1960-S266	2437182.50	1960 Sep 5	R-12	-	LP1-3	8K63 UBP-73?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S270	2437192.50	1960 Sep 15	R-12	-	ID3-6	8K63 UBP-74?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S273	2437194.50	1960 Sep 17	R-12	-	ID3-13	8K63 UBP-75?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S279	2437199.50	1960 Sep 22	R-12	-	ID3-9	8K63 UBP-76?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S285	2437201.50	1960 Sep 24	R-12	-	2LD10-20T	8K63 UBP-77?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S291	2437205.50	1960 Sep 28	R-12	-	2LD11-20T	8K63 UBP-78?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S295	2437206.50	1960 Sep 29	R-12	-	2LT4-20T	8K63 UBP-79?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S298	2437207.50	1960 Sep 30	R-12	-	I23-5	8K63 UBP-80?	-	-	-	GTsP-4	LC21	-	-	402?	1168	BALKH?
1960-S299	2437207.50	1960 Sep 30	R-12	-	2A03-26T	8K63 UBP-81?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S300	2437210.50	1960 Oct 3	R-12	-	ID3-7	8K63 UBP-82?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S410	2437212.50	1960 Oct 5	R-12	-	ID5-4TS	8K63 UBP-83?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S411	2437214.50	1960 Oct 7	R-12	-	2107-20T	8K63 UBP-84?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S323	2437215.50	1960 Oct 8	R-12	-	2L03-26T	8K63 UBP-85?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S326	2437224.50	1960 Oct 17	R-12	-	ID3-10	8K63 UBP-86?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S327	2437225.50	1960 Oct 18	R-12	-	ID3-21	8K63 UBP-87?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S329	2437226.50	1960 Oct 19	R-12	-	I25-6TS	8K63 UBP-88?	-	-	-	GTsP-4	LC21	-	-	402?	1168	BALKH?
1960-A238	2437227.50	1960 Oct 20	R-12	-	ID3-14	8K63 UBP-89?	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1960-S330	2437228.50	1960 Oct 21	R-12	-	ID5-57S	8K63 UBP-90?	-	-	-	GTsP-4	LC21	-	-	402?	1168	BALKH?
1960-S333	2437238.50	1960 Oct 31	R-12	-	ID3-15	8K63 UBP-91?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S338	2437238.50	1960 Oct 31	R-12	-	IO2-18	8K63 UBP-92?	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1960-S342	2437239.50	1960 Nov 1	R-12	-	ID3-4	8K63 UBP-93?	-	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1960-S345	2437242.50	1960 Nov 4	R-12	-	2LD12-20T	8K63 UBP-94?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S346	2437242.50	1960 Nov 4	R-12	-	2L08-20T	8K63 UBP-95?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S347	2437242.50	1960 Nov 4	R-12	-	LO1-15	8K63 UBP-96?	-	-	-	GTsP-4	LC21	-	-	402?	1950	BALKH
1960-S418	2437248.50	1960 Nov 10	R-12	-	ID3-17	8K63 UBP-97?	-	-	-	GTsP-4	LC21	-	-	402?	1161	BALKH?
1960-S358	2437250.50	1960 Nov 12	R-12	-	2LD11-19T	8K63 UBP-97?	-	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1960-S419	2437260.50	1960 Nov 22	R-12	-	ID3-12	8K63 UBP-97?	-	-	-	GTsP-4	LC21	-	-	402?	1167	BALKH?
1960-S421	2437261.50	1960 Nov 23	R-12	-	ID3-8	8K63 UBP-97?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S501	2437262.50	1960 Nov 24	R-12	-	ID3-11	8K63 UBP-97?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S385	2437268.50	1960 Nov 30	R-12	-	21013-20T	8K63 UBP-98?	-	-	-	GTsP-4	LC21	-	-	402?	1950	BALKH
1960-S400	2437280.50	1960 Dec 12	R-12	-	2LP5-20T	8K63 UBP-99?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S401	2437281.50	1960 Dec 13	R-12	-	2LOR1-3T	8K63 UBP-100?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S408	2437283.50	1960 Dec 15	R-12	-	6LD-5-7TS	8K63 UBP-101?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S409	2437284.50	1960 Dec 16	R-12	-	ID5-8TS	8K63 UBP-102?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S442	2437287.50	1960 Dec 19	R-12	-	ID5-9TS	8K63 UBP	-	-	-	GTsP-4	LC21	-	-	402?	1167	BALKH?
1960-S416	2437288.50	1960 Dec 20	R-12	-	ID5-10TS	8K63 UBP-105?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1960-S423	2437291.50	1960 Dec 23	R-12	-	2LD14-20T	8K63 UBP-109?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1960-S426	2437294.50	1960 Dec 26	R-12	-	2L09-20T	8K63 UBP-110?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1960-S427	2437295.50	1960 Dec 27	R-12	-	2LOR1-5T	8K63 UBP-111?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S14	2437309.50	1961 Jan 10	R-12	-	2LOR1-1T	8K63 UBP-112?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S16	2437312.50	1961 Jan 13	R-12	-	2LOR1-2T	8K63 UBP-113?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S18	2437313.50	1961 Jan 14	R-12	-	2LOR-4T	8K63 UBP-114?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S32	2437331.50	1961 Feb 1	R-12	-	E22601-20T	8K63 UBP-115?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S39	2437340.50	1961 Feb 10	R-12	-	E23101-20T	8K63 UBP-116?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S40	2437340.50	1961 Feb 10	R-12	-	2L03-14	8K63 UBP-117?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S472	2437354.50	1961 Feb 24	R-12	-	-	8K63 UBP-118? 19 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-A68	2437360.50	1961 Mar 2	R-12	-	-	8K63 UBP-119?	-	-	-	GTsP-4	LC21	-	-	402?	-	-
1961-S64	2437360.50	1961 Mar 2	R-12	-	B2-2	8K63 PRO-1	V-1000 target	-	-	MAKAT	LC12	-	-	402?	1454	BALKH
1961-S70	2437362.50	1961 Mar 4	R-12	-	-	8K63 PRO-2	V-1000 target	-	-	MAKAT	LC12	-	-	460	-	BALKH
1961-S78	2437368.50	1961 Mar 10	R-12	-	2E22901-10T	8K63 UBP-120?	-	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1961-S79	2437369.50	1961 Mar 11	R-12	-	E22602-207	8K63 UBP-121?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S85	2437375.50	1961 Mar 17	R-12	-	2L03-15	8K63 UBP-122?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S89	2437383.50	1961 Mar 25	R-12	-	2E23102-20T	8K63 UBP-123?	-	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1961-S94	2437385.50	1961 Mar 27	R-12	-	2LD4-11	8K63 UBP-124? 29 RD	-	-	-	GTsP-4	LC21	-	-	402?	1172	BALKH
1961-S95	2437387.50	1961 Mar 29	R-12	-	2LD4-9	8K63 UBP-125?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S480	2437390.50	1961 Apr 1	R-12	-	-	8K63 UBP	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S101	2437392.50	1961 Apr 3	R-12	-	2L04-8	8K63 UBP-126?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S102	2437395.50	1961 Apr 6	R-12	-	2L04-7	8K63 UBP-127?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S106	2437396.50	1961 Apr 7	R-12	-	LO1-17	8K63 UBP-128? 40 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S108	2437399.50	1961 Apr 10	R-12	-	2LD4-10	8K63 UBP-129? 29 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S473	2437402.50	1961 Apr 13	R-12	-	LO1-14	8K63 UBP-130? 40 RD	-	-	-	GTsP-4	LC21	-	-	402?	1172	BALKH
1961-S114	2437408.50	1961 Apr 19	R-12	-	B2-13T	8K63 UBP-131?	-	-	-	GTsP-4	LC21	-	-	0	-	BALKH
1961-S127	2437416.50	1961 Apr 27	R-12	-	2E22603-20T	8K63 UBP-132?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S129	2437417.50	1961 Apr 28	R-12	-	E23103-107	8K63 UBP-133? 35 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S474	2437417.50	1961 Apr 28	R-12	-	-	8K63 UBP-134? 35 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S475	2437417.50	1961 Apr 28	R-12	-	-	8K63 UBP-135? 29 RD	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S141	2437429.50	1961 May 10	R-12	-	2LD4-10	8K63 UBP-136?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S162	2437448.50	1961 May 29	R-12	-	LO1-14	8K63 UBP-137?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S171	2437458.50	1961 Jun 8	R-12	-	ID10-19Sh	8K63 UBP-138?	-	-	-	GTsP-4	LC21	-	-	402?	1950	BALKH
1961-S172	2437459.50	1961 Jun 9	R-12	-	ID14-12A	8K63 PRO-3	V-1000 target	-	-	MAKAT	LC12	-	-	402?	1454	BALKH
1961-S178	2437465.50	1961 Jun 15	R-12	-	2E22902-20T	8K63 UBP-139?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1961-S186	2437474.50	1961 Jun 24	R-12	-	ID5-20A	8K63 PRO-4	V-1000 target	-	-	MAKAT	LC12	-	-	402?	1454	BALKH

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S191	2437479.50	1961 Jun 29	R-12	-	2E23104-10T	8K63 UBP-140?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S193	2437480.50	1961 Jun 30	R-12	-	ID4-11A	8K63 PRO-5	V-1000 target	-	-	MAKAT	LC12	-	-	402?	1454	BALKH
1961-S217	2437502.50	1961 Jul 22	R-12	-	IPCh-10TKL	8K63 UBP-141?	-	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1961-S218	2437505.50	1961 Jul 25	R-12	-	2E22605-20T	8K63 UBP-142?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S223	2437507.50	1961 Jul 27	R-12	-	2L09-10	8K63 60 RD UBP-1	-	-	-	SGAV	-	-	-	402?	1950	Pacific
1961-S243	2437526.50	1961 Aug 15	R-12	-	2E22903-20T	8K63 UBP-144?	-	-	-	GTsP-4	LC21	-	-	402?	1949	BALKH
1961-S259	2437541.50	1961 Aug 30	R-12	-	2E22606-20T	8K63 UBP-145?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S261	2437542.50	1961 Aug 31	R-12	-	2E23105-10T	8K63 UBP-146?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S463	2437545.50	1961 Sep 3	R-12	-	2E23104-16	8K63 Salekhard-1	-	-	-	SALKH	-	-	-	400?	-	NZEM
1961-S464	2437546.50	1961 Sep 4	R-12	-	2E23104-15	8K63 Salekhard-2	-	-	-	SALKH	-	-	-	400?	-	NZEM
1961-S277	2437553.50	1961 Sep 11	R-12	-	2E23102T	8K63 UBP-147?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S278	2437554.71	1961 Sep 12 0500?	R-12	-	2E23104-14T	8K63 Salekhard-3	Nuclear test	-	-	SALKH	-	-	-	100?	-	NZEM
1961-S280	2437555.50	1961 Sep 13	R-12	-	2E23101-T	8K63 UBP-148?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S465	2437558.50	1961 Sep 16	R-12	-	2E23104-18T	8K63 Salekhard-4	-	-	-	SALKH	-	-	-	400?	-	NZEM
1961-S297	2437568.50	1961 Sep 26	R-12	-	2E22904-20T	8K63 UBP-150?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S262	2437570.50	1961 Sep 28	R-12	-	ID5-11	8K63 UBP-149?	Op K-2 Support	-	-	GTsP-4	LC21	-	-	402?	1947	BALKH
1961-S303	2437572.50	1961 Sep 30	R-12	-	2E23106-10T	8K63 UBP-151?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S307	2437576.50	1961 Oct 4	R-12	-	-	8K63	Vertical probe	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S304	2437584.50	1961 Oct 12	R-12	-	LP1-14	8K63 UBP-152? 29 RD	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S305	2437587.50	1961 Oct 15	R-12	-	ID5-12	8K63 UBP-153?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S306	2437587.50	1961 Oct 15	R-12	-	LP1-15	8K63 UBP-154?	-	-	-	GTsP-4	LC21	-	-	402?	1948	BALKH
1961-S308	2437589.50	1961 Oct 17	R-12	-	ID15-14	8K63 UBP-156?	Vertical probe	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S309	2437589.50	1961 Oct 17	R-12	-	LP1-16	8K63 UBP-157?	Op K-2 support	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S310	2437593.50	1961 Oct 21	R-12	-	-	8K63 UBP-158?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S311	2437593.50	1961 Oct 21	R-12	-	-	8K63 UBP-159?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S456	2437596.50	1961 Oct 24	R-12	-	LP1-18	8K63	Op. Roza (to NZEM)	-	-	VORK	-	-	-	400?	-	NZEM
1961-S314	2437596.50	1961 Oct 24	R-12	-	-	8K63	Op. Roza (to NZEM)	-	-	VORK	-	-	-	400?	-	NZEM
1961-S354	2437599.50	1961 Oct 27	R-12	-	-	8K63 K-1	Op K-1 Nuclear Test	-	-	MAKAT	LC12	-	-	180	-	BALKH
1961-S461	2437599.50	1961 Oct 27	R-12	-	-	8K63 K-1	Op K-1 Rocket 2? PRO?	-	-	MAKAT	LC12	-	-	180	-	BALKH
1961-S355	2437599.50	1961 Oct 27	R-12	-	ID5-17	8K63 K-2	Op K-2 Nuclear Test	-	-	MAKAT	LC12	-	-	300	-	BALKH
1961-S462	2437599.50	1961 Oct 27	R-12	-	ID5-19	8K63 K-2	Op K-2 Rocket 2? PRO?	-	-	MAKAT	LC12	-	-	300	-	BALKH
1961-F11	2437600.19	1961 Oct 27 1630	Kosmos 63S1	-	1LK	-	DS-1 No. 1	-	-	GTsP-4	Mayak-2	-	-	50?	-	-
1961-S313	2437602.50	1961 Oct 30	R-12	-	2E22607-20T	8K63 UBP-161?	-	-	-	GTsP-4	LC21	-	-	402?	-	BALKH
1961-S362	2437603.50	1961 Oct 31	R-12U	-	-	8K63U LKI-1 ShPU	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1961-S479	2437603.50	1961 Nov	R-12	-	-	8K63 UBP-163? 32 RD	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1961-S388	2437628.50	1961 Nov 25	R-12	-	2E22905-25T	8K63 UBP-164? 43 RD	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1961-S404	2437635.50	1961 Dec 2	R-12	-	2E22608-20T	8K63 UBP-165?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1961-F15	2437655.02	1961 Dec 21 1230	Kosmos 63S1	-	2LK	-	DS-1 No. 2	-	-	GTsP-4	Mayak-2	-	-	200?	-	-
1961-S435	2437656.50	1961 Dec 23	R-12	-	2E23601-15T	8K63 UBP-167?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1961-S440	2437660.50	1961 Dec 27	R-12	-	-	MP-1	-	-	-	GTsP-4	-	-	-	405	-	-
1961-S442	2437662.50	1961 Dec 29	R-12	-	2E22607-19	8K63 UBP-169?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1961-S477	2437663.86	1961 Dec 30 0836	R-12U	-	-	8K63U LKI-1 NPU	1 BB AA48	MGCh 8F126	-	GTsP-4	Dvina	-	-	402?	1947	BALKH
1962-S666	2437664.50	1962?	R-12	-	-	MP? 2	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S667	2437664.50	1962?	R-12	-	-	MP? 3	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S668	2437664.50	1962?	R-12	-	-	MP? 4	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S669	2437664.50	1962?	R-12	-	-	MP? 5	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S670	2437664.50	1962?	R-12	-	-	MP? 6	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S671	2437664.50	1962?	R-12	-	-	MP? 7	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S672	2437664.50	1962?	R-12	-	-	MP? 8	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S673	2437664.50	1962?	R-12	-	-	MP? 9	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S674	2437664.50	1962?	R-12	-	-	MP? 10	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S27	2437691.50	1962 Jan 27	R-12	-	-	8K63 UBP-171?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S31	2437694.50	1962 Jan 30	R-12	-	-	8K63 UBP-172?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S40	2437713.35	1962 Feb 17 2025	R-12	-	-	8K63 UBP-173?	-	-	-	GTsP-4	Dvina	-	-	402?	-	BALKH
1962-S675	2437713.37	1962 Feb 17 2055	R-12	-	-	8K63 UBP-174?	-	-	-	GTsP-4	Dvina	-	-	402?	-	BALKH
1962-S45	2437716.50	1962 Feb 21	R-12	-	-	8K63 UBP-175?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S61	2437729.50	1962 Mar 6	R-12	-	-	8K63 UBP-176?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 THE	2437740.00	1962 Mar 16 1159	Kosmos 63S1	-	6LK	Kosmos-1	DS-2 No. 1	-	-	GTsP-4	Mayak-2	-	-	955	-	-
1962-S85	2437754.50	1962 Apr	R-12	-	-	8K63 UBP-177?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S90	2437760.50	1962 Apr 6	R-12	-	-	8K63 UBP-178?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 IOT	2437761.22	1962 Apr 6 1715	Kosmos 63S1	-	5LK	Kosmos-2	1MS No. 1	-	-	GTsP-4	Mayak-2	-	-	1520	-	-
1962-S92	2437764.50	1962 Apr 10	R-12	-	-	8K63 UBP-179?	-	-	-	GTsP-4	-	-	-	402?	1949	BALKH
1962-S97	2437767.50	1962 Apr 13	R-12	-	-	8K63 UBP-180?	-	-	-	GTsP-4	-	-	-	402?	1948	BALKH
1962-S98	2437767.50	1962 Apr 13	R-12	-	-	8K63 UBP-181?	5 min later	-	-	GTsP-4	-	-	-	402?	1948	BALKH
1962-S99	2437768.50	1962 Apr 14	R-12	-	-	8K63 UBP-182?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 NU	2437778.67	1962 Apr 24 0400	Kosmos 63S1	-	4LK	Kosmos-3	2MS No. 1	-	-	GTsP-4	Mayak-2	-	-	705	-	-
1962-S109	2437780.50	1962 Apr 26	R-12	-	-	8K63 UBP-183?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S132	2437801.50	1962 May 17	R-12	-	-	8K63 UBP-184?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S138	2437806.50	1962 May 22	R-12	-	-	8K63 UBP-185?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S144	2437811.50	1962 May 27	R-12	-	-	8K63 UBP-186?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 UPS	2437812.62	1962 May 28 0300	Kosmos 63S1	-	3LK	Kosmos-5	2MS No. 2	-	-	GTsP-4	Mayak-2	-	-	1578	-	-
1962-S148	2437814.50	1962 May 30	R-12	-	-	8K63 UBP-187?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S172	2437822.50	1962 Jun 7	R-12	-	-	8K63 UBP-188?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S187	2437830.50	1962 Jun 15	R-12	-	-	8K63 UBP-189?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S191	2437834.50	1962 Jun 19	R-12	-	-	8K63 UBP-190?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S198	2437837.50	1962 Jun 22	R-12	-	-	8K63 UBP-191?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S199	2437841.50	1962 Jun 26	R-12	-	-	8K63 UBP-192?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S202	2437842.50	1962 Jun 27	R-12	-	-	8K63 UBP-193?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S205	2437843.50	1962 Jun 28	R-12	-	-	8K63 UBP-194?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S209	2437844.50	1962 Jun 29	R-12	-	-	8K63 UBP-195?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 A DEL	2437846.17	1962 Jun 30 1600	Kosmos 63S1	-	-	Kosmos-6	DS-P1 No. 1	-	-	GTsP-4	Mayak-2	-	-	348	-	-
1962-S219	2437849.50	1962 Jul 4	R-12	?	-	8K63 PRO Target	SSATC Target	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S269	2437872.50	1962 Jul 27	R-12	-	-	8K63 UBP-196?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-A117	2437874.10	1962 Jul 28 1417	R-12	-	2T23104-20T	8K63 UBP-197?	-	-	-	GTsP-4	-	-	-	0	-	(BALKH)
1962-S271	2437875.50	1962 Jul 30	R-12	-	-	8K63 UBP-198?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S282	2437884.50	1962 Aug 8	R-12	-	-	8K63 PRO Target	SSATC Target	-	-	GTsP-4	-	-	-	402?	-	BALKH

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S288	2437886.50	1962 Aug 10	R-12	-	-	8K63 PRO Target	SSATC Target	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S296	2437891.50	1962 Aug 15	R-12	-	-	8K63 UBP-199?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 A XI	2437895.12	1962 Aug 18 1500	Kosmos 63S1	-	-	Kosmos-8	DS-K-8 No. 1	-	-	GTsP-4	Mayak-2	-	-	597	-	-
1962-S648	2437907.50	1962 Sep	R-12	-	-	8K63 60 RD UBP-2	-	-	-	SGAV	-	-	-	402?	-	Pacific
1962-S649	2437907.50	1962 Sep	R-12	-	-	8K63 60 RD UBP-3	-	-	-	SGAV	-	-	-	402?	-	Pacific
1962-S321	2437911.50	1962 Sep 4	R-12	-	-	8K63 PRO Target	SSATC Target	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S335	2437922.50	1962 Sep 15	R-12	-	-	8K63 UBP-200?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S338	2437926.50	1962 Sep 19	R-12	-	-	8K63 UBP-201?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-A155	2437927.50	1962 Sep 20	R-12	-	-	8K63 UBP-203?	-	-	-	GTsP-4	-	-	-	0?	-	BALKH
1962-S340	2437927.50	1962 Sep 20	R-12	-	-	8K63 UBP-202?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S362	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-204?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S363	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-205?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S364	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-206?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S365	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-207?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S366	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-208?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S367	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-209?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S368	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-210?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S369	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-211?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S370	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-212?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S371	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-213?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S372	2437937.50	1962 Oct	R-12	-	-	8K63 UBP-214?	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962 B THE	2437957.67	1962 Oct 20 0400	Kosmos 63S1	-	-	Kosmos-11	DS-A1 No. 1	-	-	GTsP-4	Mayak-2	-	-	912	-	-
1962-S646	2437959.50	1962 Oct 22	R-12	-	-	8K63 K-3 PRO	Op K-3	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-S411	2437959.65	1962 Oct 22 0335?	R-12	-	Burst 0340Z	8K63 K-3	Op K-3 Nuclear test	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-F08	2437962.79	1962 Oct 25 0700	Kosmos 63S1	-	7LK	-	1MS No. 2	-	-	GTsP-4	Mayak-2	-	-	20?	-	-
1962-S647	2437965.50	1962 Oct 28	R-12	-	-	8K63 K-4 PRO	Op K-4	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-S437	2437965.67	1962 Oct 28 0410?	R-12	-	-	8K63 K-4	Op K-4 Nuclear test	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-S654	2437969.50	1962 Nov 1	R-12	-	-	8K63 K-5 PRO	Op K-5, MCh	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-S635	2437969.97	1962 Nov 1 1115	R-12	-	-	8K63 K-5	Op K-5 Nuclear Test	-	-	MAKAT	LC12	-	-	400?	-	BALKH
1962-S442	2437968.50	1962 Nov	R-12	-	-	8K63 UBP-215?	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S443	2437968.50	1962 Nov	R-12	-	-	8K63 UBP-216?	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S483	2437987.50	1962 Nov 19	R-12	-	-	8K63 UBP-217?	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S488	2437992.50	1962 Nov 24	R-12	-	-	8K63 UBP-218?	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S500	2437997.50	1962 Nov 29	R-12	-	-	8K63 UBP-219?	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S535	2438004.50	1962 Dec 6	R-12	-	-	8K63 PRO-6 Target	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S542	2438005.50	1962 Dec 7	R-12	-	-	8K63 PRO Target	MGCh	-	-	GTsP-4	-	-	-	402?	-	BALKH
1962-S550	2438009.50	1962 Dec 11	R-12	-	-	8K63 PRO-7	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S564	2438012.50	1962 Dec 14	R-12	-	-	8K63 PRO-8	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S572	2438017.50	1962 Dec 19	R-12	-	-	8K63 PRO-9	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S576	2438019.50	1962 Dec 21	R-12	-	-	8K63 PRO-10	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S579	2438023.50	1962 Dec 25	R-12	-	-	8K63 PRO-11	MGCh	-	-	MAKAT	LC12	-	-	402?	-	BALKH
1962-S650	2438025.50	1962 Dec 27	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	GTsP-4	ShPU	-	-	402?	-	BALKH
1962-S651	2438027.50	1962 Dec 29	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	GTsP-4	ShPU	-	-	402?	-	BALKH
1963-S16	2438051.50	1963 Jan 22	R-12U	-	-	8K63U PRO-12	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S31	2438061.50	1963 Feb 1	R-12U	-	-	8K63U KY63-1	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S37	2438065.50	1963 Feb 5	R-12U	-	-	8K63U PRO-13	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S40	2438068.50	1963 Feb 8	R-12U	-	-	8K63U PRO-14	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S49	2438074.50	1963 Feb 14	R-12U	-	-	8K63U PRO-15	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S76	2438089.50	1963 Mar 1	R-12U	-	-	8K63U PRO-16	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S82	2438095.50	1963 Mar 7	R-12U	-	-	8K63U PRO-17	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S88	2438100.50	1963 Mar 12	R-12U	-	-	8K63U PRO-18	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S97	2438103.50	1963 Mar 15	R-12U	-	-	8K63U PRO-19	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S99	2438104.50	1963 Mar 16	R-12U	-	-	8K63U KY63-4?	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S142	2438104.50	1963 Mar 16	R-12U	-	-	8K63U KY63-6?	1 BB AA48	MGCh 8F126	-	GTsP-4?	-	-	-	402?	-	BALKH
1963-S105	2438107.50	1963 Mar 19	R-12U	-	-	8K63U PRO-20	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S110	2438109.99	1963 Mar 21 1140	R-12U	-	-	MP-2 (M-12)	-	-	-	GTsP-4?	-	-	-	405	-	BALKH
1963-S112	2438113.50	1963 Mar 25	R-12U	-	-	8K63U KY63-5?	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S115	2438116.50	1963 Mar 28	R-12U	-	-	8K63U PRO-21	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-F05	2438125.63	1963 Apr 6 0301	Kosmos 63S1	-	-	-	DS-P1 No. 2	-	-	GTsP-4	Mayak-2	-	-	20?	-	-
1963-S139	2438128.50	1963 Apr 9	R-12U	-	-	8K63U PRO-22	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-010	2438132.96	1963 Apr 13 1100:00	Kosmos 63S1	-	-	Kosmos-14	Omega-1 No. 1	-	-	GTsP-4	Mayak-2	-	-	501	-	-
1963-017	2438171.62	1963 May 22 0300	Kosmos 63S1	-	-	Kosmos-17	DS-A1 No. 2	-	-	GTsP-4	Mayak-2	-	-	779	-	-
1963-F08	2438181.62	1963 Jun 1 0250	Kosmos 63S1	-	-	-	DS-MT No. 1	-	-	GTsP-4	Mayak-2	-	-	0	-	-
1963-S301	2438206.50	1963 Jun 26	R-12U	-	-	8K63U PRO-23	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S330	2438215.50	1963 Jul 5	R-12U	-	-	8K63U PRO-24	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S337	2438221.50	1963 Jul 11	R-12U	-	-	8K63U KY63-14	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S650	2438225.50	1963 Jul 15	R-12U	-	-	8K63U KY63-15 UBP 43 RD	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S342	2438229.50	1963 Jul 19	R-12U	-	-	8K63U PRO-25	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S354	2438235.50	1963 Jul 25	R-12U	-	-	8K63U KY63-16	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S357	2438236.50	1963 Jul 26	R-12U	-	-	8K63U KY63-17	1 BB AA48	MGCh 8F126	-	GTsP-4?	-	-	-	402?	-	BALKH
1963-S358	2438236.50	1963 Jul 26	R-12U	-	-	8K63U KY63-18	1 BB AA48	MGCh 8F126	-	GTsP-4?	-	-	-	402?	-	BALKH
1963-S359	2438236.50	1963 Jul 26	R-12U	-	-	8K63U KY63-19	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S364	2438238.50	1963 Jul 28	R-12U	-	-	8K63U KY63-20	1 BB AA48	MGCh 8F126	-	GTsP-4	LC86/1-2	-	-	402?	-	BALKH
1963-S651	2438238.50	1963 Jul 28	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	LC86/1-1	-	-	402?	-	BALKH
1963-S652	2438238.50	1963 Jul 28	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	LC86/1-3	-	-	402?	-	BALKH
1963-S663	2438238.50	1963 Jul 28	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	LC86/1-4	-	-	402?	-	BALKH
1963-033	2438247.75	1963 Aug 6 0607	Kosmos 63S1	-	-	Kosmos-19	DS-P1 No. 3	-	-	GTsP-4	Mayak-2	-	-	567	-	-
1963-S385	2438250.50	1963 Aug 9	R-12U	-	-	8K63U 60 RD UBP-4?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	402?	-	Pacific
1963-F11	2438263.75	1963 Aug 22 0600	Kosmos 63S1	-	-	-	DS-A1 No. 3	-	-	GTsP-4	Mayak-2	-	-	40?	-	-
1963-S404	2438264.50	1963 Aug 23	R-12U	-	-	8K63U 60 RD UBP-5?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	402?	-	Pacific
1963-S412	2438271.50	1963 Aug 30	R-12U	-	-	8K63U KY63-21	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S419	2438272.50	1963 Aug 31	R-12U	-	-	8K63U KY63-22	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S432	2438278.50	1963 Sep 6	R-12U	-	-	8K63U KY63-23	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S445	2438291.50	1963 Sep 19	R-12U	-	-	8K63U PRO-26	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S446	2438292.50	1963 Sep 20	R-12U	-	-	8K63U KY63-24	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S448	2438293.50	1963 Sep 21	R-12U	-	-	8K63U KY63-25	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S471	2438303.50	1963 Oct 1	R-12U	-	-	8K63U PRO-27	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S478	2438306.50	1963 Oct 4	R-12U	-	-	8K63U PRO-28	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1963-S484	2438313.50	1963 Oct 11	R-12U	-	-	8K63U KY63-26	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S489	2438317.50	1963 Oct 15	R-12U	-	-	8K63U KY63-27	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S649	2438324.50	1963 Oct 22	R-12U	-	-	8K63U UBP 35 RB	1 BB AA48	MGCh 8F126 Groza	-	ORDZH	-	-	-	402?	-	BALKH
1963-S645	2438324.50	1963 Oct 22	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/9	-	-	402?	-	BALKH
1963-F13	2438326.69	1963 Oct 24 0430	Kosmos 63S1	-	-	-	DS-A1 No. 4	-	-	GTsP-4	Mayak-2	-	-	250?	-	-
1963-S517	2438328.50	1963 Oct 26	R-12U	-	-	8K63U KY63-28	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S541	2438338.50	1963 Nov 5	R-12U	-	-	8K63U KY63-29	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S557	2438349.50	1963 Nov 16	R-12U	-	-	8K63U KY63-30	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S566	2438356.50	1963 Nov 23	R-12U	-	-	8K63U KY63-31	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S571	2438360.50	1963 Nov 27	R-12U	-	-	8K63U KY63-32	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S576	2438362.50	1963 Nov 29	R-12U	-	-	8K63U KY63-33	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S580	2438366.50	1963 Dec 3	R-12U	-	-	8K63U KY63-34	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S581	2438366.50	1963 Dec 3	R-12U	-	-	8K63U KY63-35	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S584	2438367.50	1963 Dec 4	R-12U	-	-	8K63U KY63-36	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-S592	2438373.50	1963 Dec 10	R-12U	-	-	8K63U KY63-37	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1963-A184	2438375.50	1963 Dec 12	R-12U	-	-	8K63U KY63-38	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	0?	-	(BALKH)
1963-050	2438377.09	1963 Dec 13 1415:24	Kosmos 63S1	-	-	Kosmos-23	Omega-1 No. 2	-	-	GTsP-4	Mayak-2	-	-	652	-	-
1963-S604	2438380.50	1963 Dec 17	R-12U	-	-	8K63U KY63-39	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S20	2438403.50	1964 Jan 9	R-12U	-	-	8K63U KY64-1	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S29	2438408.50	1964 Jan 14	R-12U	-	-	8K63U KY64-2	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S46	2438417.50	1964 Jan 23	R-12U	-	-	8K63U KY64-3	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S66	2438425.50	1964 Jan 31	R-12U	-	-	8K63U KY64-4	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S819	2438427.50	1964 Feb 2	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	ShPU	-	-	402?	-	BALKH
1964-S80	2438433.50	1964 Feb 8	R-12U	-	-	8K63U KY64-6	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S90	2438438.50	1964 Feb 13	R-12U	-	-	8K63U KY64-7	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S103	2438443.50	1964 Feb 18	R-12U	-	-	8K63U KY64-8	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-010	2438453.06	1964 Feb 27 1330	Kosmos 63S1	-	-	Kosmos-25	DS-P1 No. 4	-	-	GTsP-4	Mayak-2	-	-	643	-	-
1964-S125	2438454.50	1964 Feb 29	R-12U	-	-	8K63U PRO-29 Target	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1964-S130	2438458.50	1964 Mar 4	R-12U	-	-	8K63U PRO-30 Target	1 BB AA48	MGCh 8F126	-	MAKAT?	LC12	-	-	402?	-	BALKH
1964-S135	2438464.50	1964 Mar 10	R-12U	-	-	8K63U PRO-31 Target	1 BB AA48	MGCh 8F126	-	MAKAT?	LC12	-	-	402?	-	BALKH
1964-S141	2438465.50	1964 Mar 11	R-12U	-	-	8K63U PRO-32 Target	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1964-013	2438473.13	1964 Mar 18 1507?	Kosmos 63S1	-	-	Kosmos-26	DS-MG No. 1	-	-	GTsP-4	Mayak-2	-	-	419	-	-
1964-S162	2438477.50	1964 Mar 23	R-12U	-	-	8K63U KY64-9	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S164	2438478.50	1964 Mar 24	R-12U	-	-	8K63U KY64-10	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-A43	2438481.50	1964 Mar 27	R-12U	-	-	8K63U KY64-11	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	0?	-	(BALKH)
1964-S228	2438512.50	1964 Apr 27	R-12U	-	-	8K63U KY64-12 UBP 51 RB	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S280	2438551.50	1964 Jun 5	R-12U	-	-	8K63U KY64-13 UBP 29 RD	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-028	2438552.75	1964 Jun 6 0600?	Kosmos 63S1	-	-	Kosmos-31	DS-MT No. 2	-	-	GTsP-4	Mayak-2	-	-	491	-	-
1964-S291	2438557.50	1964 Jun 11	R-12U	-	-	8K63U KY64-14	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S319	2438577.50	1964 Jul 1	R-12U	-	-	8K63U KY64-15	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S323	2438578.50	1964 Jul 2	R-12U	-	-	8K63U KY64-16 UBP 29 RD	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S328	2438583.50	1964 Jul 7	R-12U	-	-	8K63U KY64-17	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S333	2438584.50	1964 Jul 8	R-12U	-	-	8K63U KY64-18	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S340	2438586.50	1964 Jul 10	R-12U	-	-	8K63U KY64-19	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S345	2438590.50	1964 Jul 14	R-12U	-	-	8K63U KY64-20	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S364	2438593.50	1964 Jul 17	R-12U	-	-	8K63U 60 RD UBP-6?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	402?	-	Pacific
1964-S365	2438593.50	1964 Jul 17	R-12U	-	-	8K63U KY64-21	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-A107	2438597.50	1964 Jul 21	R-12U	-	-	8K63U 60 RD UBP-7?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	0?	-	(Pacific)
1964-042	2438606.65	1964 Jul 30 0336?	Kosmos 63S1	-	-	Kosmos-36	DS-P1-Yu No. 1	-	-	GTsP-4	Mayak-2	-	-	493	-	-
1964-S396	2438607.50	1964 Jul 31	R-12U	-	-	8K63U KY64-22	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S400	2438611.50	1964 Aug 4	R-12U	-	-	8K63U KY64-23	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S404	2438613.50	1964 Aug 6	R-12U	-	-	8K63U KY64-24	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S405	2438613.50	1964 Aug 6	R-12U	-	-	8K63U 60 RD UBP-8?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	402?	-	Pacific
1964-S437	2438627.50	1964 Aug 20	R-12U	-	-	8K63U KY64-25	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-050	2438629.96	1964 Aug 22 1100	Kosmos 63S1	-	-	Kosmos-42/43	Strela-1	-	-	GTsP-4	Mayak-2	-	-	1129	-	-
1964-S444	2438633.50	1964 Aug 26	R-12U	-	-	8K63U 60 RD UBP-9?	1 BB AA48	MGCh 8F126	-	SGAV	-	-	-	402?	-	Pacific
1964-S470	2438654.50	1964 Sep 16	R-12U	-	-	8K63U KY64-26	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S496	2438668.50	1964 Sep 30	R-12U	-	-	8K63U KY64-27	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S503	2438674.50	1964 Oct 6	R-12U	-	-	8K63U KY64-28	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S512	2438677.50	1964 Oct 9	R-12U	-	-	8K63U KY64-29	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S523	2438684.50	1964 Oct 16	R-12U	-	-	8K63U 23 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	ShPU	-	-	402?	-	BALKH
1964-069	2438692.72	1964 Oct 24 0517	Kosmos 63S1	-	-	Kosmos-49	DS-MG No. 2	-	-	GTsP-4	Mayak-2	-	-	476	-	-
1964-F13	2438730.86	1964 Dec 1 0845	Kosmos 63S1	-	-	-	DS-2 No. 2	-	-	GTsP-4	LC86/1	-	-	20?	-	-
1964-080	2438739.46	1964 Dec 9 2300	Kosmos 63S1	-	-	Kosmos-51	DS-MT No. 3	-	-	GTsP-4	LC86/1	-	-	542	-	-
1964-S680	2438744.50	1964 Dec 15	R-12U	-	-	8K63U KY64-31	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S699	2438747.50	1964 Dec 18	R-12U	-	-	8K63U KY64-32	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S701	2438752.50	1964 Dec 23	R-12U	-	-	8K63U KY64-33	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S702	2438755.50	1964 Dec 26	R-12U	-	-	8K63U KY64-34	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1964-S703	2438756.50	1964 Dec 27	R-12U	-	-	8K63U KY64-35 UBP 40 RD	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-006	2438790.90	1965 Jan 30 0936?	Kosmos 63S1	-	-	Kosmos-53	DS-A1 No. 5	-	-	GTsP-4	LC86/1	-	-	1177	-	-
1965-F02	2438804.00	1965 Feb 12 1200	Kosmos 63S1	-	-	-	DS-P1-Yu No. 2	-	-	GTsP-4	LC86/1	-	-	40?	-	-
1965-F03	2438811.77	1965 Feb 20 0630	Kosmos 63S1	-	-	-	DS-A1 No. 6	-	-	GTsP-4	LC86/1	-	-	15?	-	-
1965-S802	2438816.50	1965 Feb 25	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/9	-	-	402?	-	BALKH
1965-S818	2438816.50	1965 Feb 25	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/8	-	-	402?	-	BALKH
1965-S819	2438816.50	1965 Feb 25	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/7	-	-	402?	-	BALKH
1965-S820	2438816.50	1965 Feb 25	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/10	-	-	402?	-	BALKH
1965-S803	2438817.50	1965 Feb 26	R-12U	-	-	8K63U UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/8	-	-	402?	-	BALKH
1965-S163	2438835.50	1965 Mar 16	R-12U	-	-	8K63U UBP 44 RD	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-S195	2438845.50	1965 Mar 26	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-S239	2438866.50	1965 Apr 16	R-12U	-	-	8K63U PRO-33	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1965-S248	2438874.50	1965 Apr 24	R-12U	-	-	8K63U PRO-34	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1965-S288	2438893.02	1965 May 12 1230	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-S807	2438915.50	1965 Jun 4	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-052	2438943.77	1965 Jul 2 0629	Kosmos 63S1	-	-	Kosmos-70	DS-A1 No. 7	-	-	GTsP-4	LC86/1	-	-	1144	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S817	2438958.50	1965 Jul 17	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-059	2438964.69	1965 Jul 23 0434	Kosmos 63S1	-	-	Kosmos-76	DS-P1-Yu No. 3	-	-	GTsP-4	LC86/1	-	-	516	-	-
1965-S805	2438977.50	1965 Aug 5	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-S806	2439004.50	1965 Sep 1	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1965-084	2439052.74	1965 Oct 19 0544?	Kosmos 11K63	-	-	Kosmos-93	DS-U2-V No. 1	-	-	GTsP-4	LC86/1	-	-	521	-	-
1965-088	2439068.73	1965 Nov 4 0531?	Kosmos 11K63	-	-	Kosmos-95	DS-U2-V No. 2	-	-	GTsP-4	LC86/1	-	-	521	-	-
1965-095	2439091.01	1965 Nov 26 1214?	Kosmos 11K63	-	-	Kosmos-97	DS-U2-M No. 1	-	-	GTsP-4	LC86/1	-	-	2020	-	-
1965-S814	2439094.50	1965 Dec?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	MAKAT	LC12	-	-	402?	-	BALKH
1965-107	2439115.76	1965 Dec 21 0614?	Kosmos 63S1	-	-	Kosmos-101	DS-P1-Yu No. 4	-	-	GTsP-4	LC86/1	-	-	510	-	-
1965-F12	2439122.84	1965 Dec 28 0810	Kosmos 63S1	-	-	-	DS-K-40 No. 1	-	-	GTsP-4	LC86/1	-	-	10?	-	-
1966-S775	2439125.50	1966	R-12U	-	-	8K63U UBP 40 RD	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1966-004	2439151.02	1966 Jan 25 1228?	Kosmos 11K63	-	-	Kosmos-106	DS-P1-I No. 1	-	-	GTsP-4	LC86/1	-	-	550	-	-
1966-S780	2439156.50	1966 Feb	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-011	2439168.25	1966 Feb 11 1800?	Kosmos 63S1	-	-	Kosmos-108	DS-U1-G No. 1	-	-	GTsP-4	LC86/1	-	-	852	-	-
1966-F02	2439178.06	1966 Feb 21 1330	Kosmos 63S1	-	-	-	DS-K-40 No. 2	-	-	GTsP-4	LC86/1	-	-	20?	-	-
1966-S781	2439215.50	1966 Apr	R-12U	-	-	8K63U 44 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S782	2439215.50	1966 Apr	R-12U	-	-	8K63U 32 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-036	2439241.92	1966 Apr 26 1004?	Kosmos 11K63	-	-	Kosmos-116	DS-P1-Yu No. 6	-	-	GTsP-4	LC86/1	-	-	467	-	-
1966-043	2439269.73	1966 May 24 0531?	Kosmos 11K63	-	-	Kosmos-119	DS-U2-I No. 1	-	-	GTsP-4	LC86/1	-	-	1295	-	-
1966-S783	2439299.50	1966 Jun 23	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S784	2439312.50	1966 Jul 6	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-061	2439314.73	1966 Jul 8 0531?	Kosmos 63S1	-	-	Kosmos-123	DS-P1-Yu No. 5	-	-	GTsP-4	LC86/1	-	-	519	-	-
1966-S785	2439368.50	1966 Sep	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S776	2439389.50	1966 Sep 21	R-12U	-	-	8K63U UBP 51 RD	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/7	-	-	402?	-	BALKH
1966-S786	2439399.50	1966 Oct 1	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S777	2439410.50	1966 Oct 12	R-12U	-	-	8K63U UBP 40 RD	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1966-S778	2439417.50	1966 Oct 19	R-12U	-	-	8K63U UBP 40 RD	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1966-S806	2439420.50	1966 Oct 22	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S805	2439455.50	1966 Nov 26	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S787	2439459.50	1966 Nov 30	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-S804	2439471.50	1966 Dec 12	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1966-112	2439472.36	1966 Dec 12 2038?	Kosmos 11K63	-	-	Kosmos-135	DS-U2-MP No. 1	-	-	GTsP-4	LC86/1	-	-	655	-	-
1966-117	2439481.05	1966 Dec 21 1312?	Kosmos 63S1	-	-	Kosmos-137	DS-U2-D No. 1	-	-	GTsP-4	LC86/1	-	-	1716	-	-
1966-S788	2439481.50	1966 Dec 22	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S745	2439523.50	1967 Feb 2	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S751	2439528.50	1967 Feb 7	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-013	2439535.92	1967 Feb 14 1004:56	Kosmos 11K63	-	-	Kosmos-142	DS-U2-I No. 2	-	-	GTsP-4	LC86/1	-	-	1346	-	-
1967-019	2439552.78	1967 Mar 3 0644:58	Kosmos 11K63	-	-	Kosmos-145	DS-U2-M No. 2	-	-	GTsP-4	LC86/1	-	-	2117	-	-
1967-023	2439566.23	1967 Mar 16 1730	Kosmos 11K63	-	U231-05	Kosmos-148	DS-P1-I No. 2	-	-	NIIP-53	LC133/3	-	-	403	-	-
1967-024	2439570.92	1967 Mar 21 1007	Kosmos 11K63	-	-	Kosmos-149	DS-MO No. 1	-	-	GTsP-4	LC86/1	-	-	331	-	-
1967-028	2439574.79	1967 Mar 25 0659:30	Kosmos 11K63	-	U231-08	Kosmos-152	DS-P1-Yu No. 7	-	-	NIIP-53	LC133/3	-	-	503	-	-
1967-S746	2439580.50	1967 Apr	R-12	-	-	8K63 44 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S752	2439585.50	1967 Apr 5	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S747	2439606.50	1967 Apr 26	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S748	2439646.50	1967 Jun 5	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-056	2439646.71	1967 Jun 5 0503	Kosmos 11K63	-	-	Kosmos-163	DS-U2-MP No. 2	-	-	GTsP-4	LC86/1	-	-	635	-	-
1967-059	2439654.25	1967 Jun 12 1806	Kosmos 11K63	-	N231-12	Kosmos-165	DS-P1-Yu No. 11	-	-	NIIP-53	LC133/3	-	-	1514	-	-
1967-S749	2439654.50	1967 Jun 13	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-061	2439657.70	1967 Jun 16 0444	Kosmos 11K63	-	-	Kosmos-166	DS-U3-S No. 1	-	-	GTsP-4	LC86/1	-	-	574	-	-
1967-S762	2439702.50	1967 Aug	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-081	2439726.71	1967 Aug 24 0459:49	Kosmos 11K63	-	U231-10	Kosmos-173	DS-P1-Yu No. 8	-	-	NIIP-53	LC133/3	-	-	500	-	-
1967-086	2439746.21	1967 Sep 12 1700	Kosmos 11K63	-	N231-08	Kosmos-176	DS-P1-Yu No. 10	-	-	NIIP-53	LC133/3	-	-	1562	-	-
1967-S763	2439760.50	1967 Sep 27	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S753	2439786.50	1967 Oct 23	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-S754	2439791.50	1967 Oct 28	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1967-115	2439816.10	1967 Nov 21 1429:48	Kosmos 11K63	-	U231-11	Kosmos-191	DS-P1-Yu No. 9	-	-	NIIP-53	LC133/3	-	-	493	-	-
1967-125	2439843.77	1967 Dec 19 0630:07	Kosmos 63S1	-	-	Kosmos-196	DS-U1-G No. 2	-	-	GTsP-4	LC86/1	-	-	887	-	-
1967-126	2439850.88	1967 Dec 26 0901:59	Kosmos 11K63	-	-	Kosmos-197	DS-U2-V No. 3	-	-	GTsP-4	LC86/4	-	-	491	-	-
1967-S750	2439851.50	1967 Dec 27	R-12U	-	-	8K63 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-S745	2439855.50	1968	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S746	2439855.50	1968?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S783	2439855.50	1968?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S784	2439855.50	1968?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S785	2439855.50	1968?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S792	2439855.50	1968?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-S757	2439886.50	1968 Feb	R-12U	-	-	8K63U 32 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-010	2439906.92	1968 Feb 20 1003:11	Kosmos 11K63	-	-	Kosmos-202	DS-U2-V No. 4	-	-	GTsP-4	LC86/4	-	-	509	-	-
1968-015	2439920.97	1968 Mar 5 1120?	Kosmos 11K63	-	U231-06	Kosmos-204	DS-P1-I No. 3	-	-	NIIP-53	LC133/3	-	-	846	-	-
1968-F02	2439921.96	1968 Mar 6 1102:57	Kosmos 11K63	-	-	-	DS-U1-Ya No. 1	-	-	GTsP-4	LC86/4	-	-	255?	-	-
1968-028	2439955.98	1968 Apr 9 1126:25	Kosmos 11K63	-	Ya231-02	Kosmos-211	DS-P1-Yu No. 13	-	-	NIIP-53	LC133/3	-	-	1517	-	-
1968-033	2439965.44	1968 Apr 18 2229:53	Kosmos 11K63	-	-	Kosmos-215	DS-U1-A No. 1	-	-	GTsP-4	LC86/4	-	-	445	-	-
1968-S747	2439972.50	1968 Apr 26	R-12U	-	-	8K63U UBP 51 RB	-	-	-	KATTAK	LC3	-	-	402?	-	BALKH
1968-038	2439972.70	1968 Apr 26 0442:56	Kosmos 11K63	-	-	Kosmos-219	DS-U2-D No. 2	-	-	GTsP-4	LC86/4	-	-	1742	-	-
1968-S760	2440000.50	1968 May 24	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-043	2440000.80	1968 May 24 0704:50	Kosmos 11K63	-	-	Kosmos-221	DS-P1-Yu No. 14	-	-	GTsP-4	LC86/4	-	-	2141	-	-
1968-044	2440007.35	1968 May 30 2029:49	Kosmos 11K63	-	Ya231-01	Kosmos-222	DS-P1-Yu No. 12	-	-	NIIP-53	LC133/3	-	-	502	-	-
1968-S761	2440007.50	1968 May 31	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-S748	2440009.50	1968 Jun 2	R-12	-	-	8K63 UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC1/1	-	-	402?	-	BALKH
1968-S749	2440010.50	1968 Jun 3	R-12	-	-	8K63 UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC1/3	-	-	402?	-	BALKH
1968-S750	2440011.50	1968 Jun 4	R-12	-	-	8K63 UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC1/2	-	-	402?	-	BALKH
1968-S767	2440014.50	1968 Jun 7	R-12	-	-	8K63 UBP 35 RB	1 BB AA48	MGCh 8F126	-	ORDZH	-	-	-	402?	-	-
1968-S755	2440014.50	1968 Jun 7	R-12	-	-	8K63 UBP 35 RB	1 BB AA48	MGCh 8F126	-	ORDZH	-	-	-	402?	-	-
1968-S751	2440015.50	1968 Jun 8	R-12	-	-	8K63 UBP 51 RB	1 BB AA48	MGCh 8F126	-	KATTAK	LC1/3	-	-	402?	-	BALKH
1968-048	2440019.40	1968 Jun 11 2129:54	Kosmos 11K63	-	-	Kosmos-225	DS-U1-Ya No. 2	-	-	GTsP-4	LC86/4	-	-	525	-	-
1968-056	2440042.79	1968 Jul 5 0659:50	Kosmos 11K63	-	-	Kosmos-230	DS-U3-S No. 2	-	-	GTsP-4	LC86/4	-	-	553	-	-
1968-061	2440056.33	1968 Jul 18 1959:50	Kosmos 11K63	-	-	Kosmos-233	DS-P1-Yu No. 15	-	-	NIIP-53	LC133/3	-	-	1511	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-079	2440120.11	1968 Sep 20 1439:59	Kosmos 11K63	-	Ya231-04	Kosmos-242	DS-P1-I No. 4	-	-	NIIP-53	LC133/3	-	-	407	-	-
1968-S758	2440127.50	1968 Sep 28	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-083	2440133.04	1968 Oct 3 1258:59	Kosmos 11K63	-	V295-02	Kosmos-245	DS-P1-Yu No. 16	-	-	NIIP-53	LC133/3	-	-	482	-	-
1968-S762	2440174.50	1968 Nov 14	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-107	2440194.12	1968 Dec 3 1452:21	Kosmos 11K63	-	V295-03	Kosmos-257	DS-P1-Yu No. 17	-	-	NIIP-53	LC133/3	-	-	445	-	-
1968-S768	2440204.50	1968 Dec 14	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1968-113	2440204.72	1968 Dec 14 0509:54	Kosmos 11K63	-	-	Kosmos-259	DS-U2-I No. 3	-	-	GTsP-4	LC86/4	-	-	1335	-	-
1968-117	2440210.50	1968 Dec 19 2355	Kosmos 11K63	-	N231-13	Kosmos-261	DS-U2-GK No. 1	-	-	NIIP-53	LC133/3	-	-	647	-	-
1968-S759	2440215.50	1968 Dec 25	R-12U	-	-	8K63U 43 RD UBP	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1968-119	2440216.91	1968 Dec 26 0945:02	Kosmos 11K63	-	-	Kosmos-262	DS-U2-GF No. 1	-	-	GTsP-4	LC86/4	-	-	801	-	-
1969-S760	2440221.50	1969?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1969-S761	2440221.50	1969?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1969-S762	2440221.50	1969?	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1969-S767	2440256.50	1969 Feb 4	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-012	2440260.08	1969 Feb 7 1359	Kosmos 11K63	-	V295-07	Kosmos-265	DS-P1-Yu No. 21	-	-	NIIP-53	LC133/3	-	-	458	-	-
1969-S768	2440264.50	1969 Feb 12	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S769	2440270.50	1969 Feb 18	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-020	2440286.05	1969 Mar 5 1304:55	Kosmos 11K63	-	-	Kosmos-268	DS-P1-Yu No. 18	-	-	GTsP-4	LC86/4	-	-	2173	-	-
1969-031	2440309.17	1969 Mar 28 1600:08	Kosmos 11K63	-	-	Kosmos-275	DS-P1-I No. 5	-	-	NIIP-53	LC133/3	-	-	779	-	-
1969-033	2440316.04	1969 Apr 4 1300:04	Kosmos 11K63	-	V295-06	Kosmos-277	DS-P1-Yu No. 20	-	-	NIIP-53	LC133/3	-	-	466	-	-
1969-047	2440369.04	1969 May 27 1259:59	Kosmos 11K63	-	V295-05	Kosmos-283	DS-P1-Yu No. 19	-	-	NIIP-53	LC133/3	-	-	1509	-	-
1969-049	2440376.04	1969 Jun 3 1257:27	Kosmos 11K63	-	V295-10	Kosmos-285	DS-P1-Yu No. 24	-	-	NIIP-53	LC133/3	-	-	493	-	-
1969-S715	2440417.50	1969 Jul 15	K63D	-	-	K63D BOR-1	BOR-1	-	-	VLAD	-	-	-	100	-	BALKH
1969-F11	2440425.88	1969 Jul 23 0900:00	Kosmos 11K63	-	V295-11	-	DS-P1-Yu No. 23	-	-	NIIP-53	LC133/3	-	-	270?	-	-
1969-S770	2440426.50	1969 Jul 24	R-12U	-	-	8K63 31 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S771	2440426.50	1969 Jul 24	R-12U	-	-	8K63 31 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S772	2440426.50	1969 Jul 24	R-12U	-	-	8K63 31 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S773	2440426.50	1969 Jul 24	R-12U	-	-	8K63 31 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S774	2440426.50	1969 Jul 24	R-12U	-	-	8K63 31 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S775	2440440.50	1969 Aug 7	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-073	2440456.09	1969 Aug 22 1414:57	Kosmos 11K63	-	Yu295-02	Kosmos-295	DS-P1-Yu No. 29	-	-	NIIP-53	LC133/3	-	-	472	-	-
1969-S802	2440464.50	1969 Sep	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-088	2440509.06	1969 Oct 14 1319:53	Kosmos 11K63	-	2I	Interkosmos-1	DS-U3-IK No. 1	-	-	GTsP-4	LC86/4	-	-	627	-	-
1969-090	2440512.92	1969 Oct 18 1000:03	Kosmos 11K63	-	Yu295-03	Kosmos-303	DS-P1-Yu No. 28	-	-	NIIP-53	LC133/3	-	-	465	-	-
1969-094	2440519.04	1969 Oct 24 1301:58	Kosmos 11K63	-	-	Kosmos-307	DS-P1-Yu No. 22	-	-	GTsP-4	LC86/4	-	-	2164	-	-
1969-S801	2440523.50	1969 Oct 29	R-12U	-	-	8K63U UBP/Target	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-096	2440530.00	1969 Nov 4 1159:59	Kosmos 11K63	-	V295-09	Kosmos-308	DS-P1-I No. 7	-	-	NIIP-53	LC133/3	-	-	406	-	-
1969-102	2440549.96	1969 Nov 24 1100:04	Kosmos 11K63	-	Yu646-24	Kosmos-311	DS-P1-Yu No. 27	-	-	NIIP-53	LC133/3	-	-	483	-	-
1969-S716	2440561.75	1969 Dec 6 0600	K63D	-	-	K63D BOR-2	BOR-2 No. 101	-	-	VLAD	-	-	-	100	-	BALKH
1969-106	2440567.04	1969 Dec 11 1258:59	Kosmos 11K63	-	Yu646-25	Kosmos-314	DS-P1-Yu No. 30	-	-	NIIP-53	LC133/3	-	-	466	-	-
1969-S776	2440576.50	1969 Dec 21	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-S787	2440576.50	1969 Dec 21	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1969-110	2440580.92	1969 Dec 25 0959:51	Kosmos 11K63	-	-	Interkosmos-2	DS-U1-IK No. 1	-	-	GTsP-4	LC86/4	-	-	1185	-	-
1969-S777	2440582.50	1969 Dec 27	R-12	-	-	8K63 UBP	ShPU	-	-	GTsP-4	-	-	-	402?	-	-
1970-004	2440602.07	1970 Jan 15 1339:59	Kosmos 11K63	-	V295-12	Kosmos-319	DS-P1-Yu No. 25	-	-	NIIP-53	LC133/3	-	-	1510	-	-
1970-005	2440602.96	1970 Jan 16 1059:58	Kosmos 11K63	-	-	Kosmos-320	DS-MO No. 3	-	-	GTsP-4	LC86/4	-	-	326	-	-
1970-006	2440607.35	1970 Jan 20 2020:00	Kosmos 11K63	-	N231-06	Kosmos-321	DS-U2-MG No. 1	-	-	NIIP-53	LC133/3	-	-	503	-	-
1970-S766	2440616.50	1970 Jan 30	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-F01	2440617.15	1970 Jan 30 1540:01	Kosmos 11K63	-	V295-13	-	DS-P1-I No. 6	-	-	NIIP-53	LC133/3	-	-	100?	-	-
1970-014	2440645.23	1970 Feb 27 1724:55	Kosmos 11K63	-	Yu646-27	Kosmos-324	DS-P1-Yu No. 32	-	-	NIIP-53	LC133/3	-	-	465	-	-
1970-S740	2440645.50	1970 Mar	R-12U	-	-	8K63U 44 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-S741	2440662.50	1970 Mar 17	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-020	2440664.11	1970 Mar 18 1439:56	Kosmos 11K63	-	Yu646-28	Kosmos-327	DS-P1-I No. 8	-	-	NIIP-53	LC133/3	-	-	818	-	-
1970-033	2440700.06	1970 Apr 23 1320:00	Kosmos 11K63	-	Yu646-26	Kosmos-334	DS-P1-Yu No. 31	-	-	NIIP-53	LC133/3	-	-	481	-	-
1970-035	2440701.43	1970 Apr 24 2224:49	Kosmos 11K63	-	-	Kosmos-335	DS-U1-R No. 1	-	-	GTsP-4	LC86/4	-	-	402	-	-
1970-F03	2440729.03	1970 May 22 1239:55	Kosmos 11K63	-	Yu457-32	-	DS-P1-Yu No. 36	-	-	NIIP-53	LC133/3	-	-	50?	-	-
1970-043	2440749.90	1970 Jun 12 0930:02	Kosmos 11K63	-	-	Kosmos-347	DS-P1-Yu No. 35	-	-	GTsP-4	LC86/4	-	-	2058	-	-
1970-044	2440750.71	1970 Jun 13 0459:58	Kosmos 11K63	-	N231-10	Kosmos-348	DS-U2-GK No. 2	-	-	NIIP-53	LC133/3	-	-	650	-	-
1970-051	2440764.82	1970 Jun 27 0739:55	Kosmos 11K63	-	Yu457-34	Kosmos-351	DS-P1-Yu No. 38	-	-	NIIP-53	LC133/3	-	-	467	-	-
1970-S668	2440798.58	1970 Jul 31 0200	K63D	-	-	K63D BOR-2	BOR-2 No. 102	-	-	VLAD	-	-	-	100	-	BALKH
1970-057	2440805.62	1970 Aug 7 0259:53	Kosmos 11K63	-	-	Interkosmos-3	DS-U2-IK No. 1	-	-	GTsP-4	LC86/4	-	-	1300	-	-
1970-059	2440809.33	1970 Aug 10 1959:55	Kosmos 11K63	-	N231-05	Kosmos-356	DS-U2-MG No. 2	-	-	NIIP-53	LC133/3	-	-	572	-	-
1970-063	2440818.12	1970 Aug 19 1459:53	Kosmos 11K63	-	Yu457-36	Kosmos-357	DS-P1-Yu No. 40	-	-	NIIP-53	LC133/3	-	-	474	-	-
1970-073	2440846.00	1970 Sep 16 1159:55	Kosmos 11K63	-	Yu457-37	Kosmos-362	DS-P1-I No. 9	-	-	NIIP-53	LC133/3	-	-	828	-	-
1970-081	2440868.13	1970 Oct 8 1510:03	Kosmos 11K63	-	64657-132	Kosmos-369	DS-P1-Yu No. 42	-	-	NIIP-53	LC133/3	-	-	508	-	-
1970-084	2440873.98	1970 Oct 14 1129:58	Kosmos 11K63	-	-	Interkosmos-4	DS-U3-IK No. 2	-	-	GTsP-4	LC86/4	-	-	656	-	-
1970-S742	2440880.50	1970 Oct 21	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-S743	2440880.50	1970 Oct 21	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-S744	2440881.50	1970 Oct 22	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1970-100	2440914.96	1970 Nov 24 1059:56	Kosmos 11K63	-	64657-131	Kosmos-380	DS-P1-Yu No. 26	-	-	NIIP-53	LC133/3	-	-	1520	-	-
1970-112	2440938.90	1970 Dec 18 0939:13	Kosmos 11K63	-	Yu457-29	Kosmos-388	DS-P1-Yu No. 43	-	-	NIIP-53	LC133/3	-	-	511	-	-
1970-S751	2440941.50	1970 Dec 21	R-12U	-	-	8K63U UBP	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1971-002	2440966.00	1971 Jan 14 1200:00	Kosmos 11K63	-	Yu295-01	Kosmos-391	DS-P1-I No. 11	-	-	NIIP-53	LC133/3	-	-	802	-	-
1971-007	2440978.03	1971 Jan 26 1244:33	Kosmos 11K63	-	Yu457-31	Kosmos-393	DS-P1-Yu No. 34	-	-	NIIP-53	LC133/3	-	-	486	-	-
1971-F02	2441015.84	1971 Mar 5 0815:02	Kosmos 11K63	-	-	-	DS-P1-Yu No. 39	-	-	GTsP-4	LC86/4	-	-	90?	-	-
1971-S693	2441055.50	1971 Apr 14	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1971-S694	2441055.50	1971 Apr 14	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1971-S695	2441062.50	1971 Apr 21	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1971-S636	2441063.68	1971 Apr 22 0422	K63D	-	-	K63D BOR-2	BOR-2 No. 103	-	-	VLAD	-	-	-	100	-	BALKH
1971-037	2441065.97	1971 Apr 24 1115:02	Kosmos 11K63	-	Yu457-33	Kosmos-408	DS-P1-Yu No. 37	-	-	NIIP-53	LC133/3	-	-	1513	-	-
1971-044	2441090.93	1971 May 19 1020:00	Kosmos 11K63	-	45747-138	Kosmos-421	DS-P1-Yu No. 48	-	-	NIIP-53	LC133/3	-	-	468	-	-
1971-047	2441099.00	1971 May 27 1159:55	Kosmos 11K63	-	64657-133	Kosmos-423	DS-P1-Yu No. 47	-	-	NIIP-53	LC133/3	-	-	486	-	-
1971-S687	2441102.50	1971 Jun	R-12U	-	-	8K63U 51 RB UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC2/6	-	-	402?	-	BALKH
1971-S706	2441102.50	1971 Jun	R-12U	-	-	8K63U 51 RB UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC2/6	-	-	402?	-	BALKH
1971-S688	2441156.50	1971 Jul 24	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3	-	-	402?	-	BALKH
1971-F08	2441166.96	1971 Aug 3 1100:00	Kosmos 11K63	-	45747-139	-	DS-P1-Yu No. 33	-	-	NIIP-53	LC133/3	-	-	270?	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-072	2441190.95	1971 Aug 27 1054:56	Kosmos 11K63	-	64657-134	Kosmos-435	DS-P1-Yu No. 41	-	-	NIIP-53	LC133/3	-	-	478	-	-
1971-S696	2441209.50	1971 Sep 15	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	400?	-	BALKH
1971-079	2441218.94	1971 Sep 24 1030:00	Kosmos 11K63	-	64634-148	Kosmos-440	DS-P1-I No. 10	-	-	NIIP-53	LC133/3	-	-	788	-	-
1971-S689	2441232.50	1971 Oct 8	R-12U	-	-	8K63U 51 RB UBP	1 BB AA48	MGCh 8F126	-	KATTAK	LC3/11	-	-	402?	-	BALKH
1971-090	2441244.03	1971 Oct 19 1240:01	Kosmos 11K63	-	64634-145	Kosmos-453	DS-P1-Yu No. 44	-	-	NIIP-53	LC133/3	-	-	496	-	-
1971-097	2441272.97	1971 Nov 17 1109:48	Kosmos 11K63	-	29547-144	Kosmos-455	DS-P1-Yu No. 54	-	-	NIIP-53	LC133/3	-	-	490	-	-
1971-101	2441284.92	1971 Nov 29 1009:56	Kosmos 11K63	-	29524-151	Kosmos-458	DS-P1-Yu No. 53	-	-	NIIP-53	LC133/3	-	-	498	-	-
1971-104	2441287.85	1971 Dec 2 0825:14	Kosmos 11K63	-	-	Interkosmos-5	DS-U2-IK No. 2	-	-	GTsP-4	LC86/4	-	-	1166	-	-
1971-113	2441302.94	1971 Dec 17 1039:58	Kosmos 11K63	-	45747-140	Kosmos-467	DS-P1-Yu No. 45	-	-	NIIP-53	LC133/3	-	-	472	-	-
1972-004	2441341.97	1972 Jan 25 1115:01	Kosmos 11K63	-	29547-143	Kosmos-472	DS-P1-Yu No. 52	-	-	NIIP-53	LC133/3	-	-	1546	-	-
1972-S462	2441355.75	1972 Feb 8 0559	K63D	-	-	K63D BOR-2	BOR-2 No. 104	-	-	VLAD	-	-	-	100	-	BALKH
1972-020	2441401.94	1972 Mar 25 1039:59	Kosmos 11K63	-	64657-134	Kosmos-481	DS-P1-Yu No. 46	-	-	NIIP-53	LC133/3	-	-	514	-	-
1972-028	2441418.96	1972 Apr 11 1104:58	Kosmos 11K63	-	45734-142	Kosmos-485	DS-P1-Yu No. 58	-	-	NIIP-53	LC133/3	-	-	478	-	-
1972-033	2441429.00	1972 Apr 21 1159:59	Kosmos 11K63	-	45747-137	Kosmos-487	DS-P1-Yu No. 57	-	-	NIIP-53	LC133/3	-	-	504	-	-
1972-F02	2441432.98	1972 Apr 25 1129:59	Kosmos 11K63	-	64634-146	-	DS-P1-Yu No. 51	-	-	NIIP-53	LC133/3	-	-	270?	-	-
1972-047	2441498.75	1972 Jun 30 0558:41	Kosmos 11K63	-	-	Interkosmos-7	DS-U3-IK No. 3	-	-	GTsP-4	LC86/4	-	-	555	-	-
1972-048	2441498.89	1972 Jun 30 0919:49	Kosmos 11K63	-	29524-153	Kosmos-497	DS-P1-I No. 12	-	-	NIIP-53	LC133/3	-	-	787	-	-
1972-050	2441503.90	1972 Jul 5 0929:58	Kosmos 11K63	-	29524-152	Kosmos-498	DS-P1-Yu No. 56	-	-	NIIP-53	LC133/3	-	-	484	-	-
1972-054	2441510.75	1972 Jul 12 0559:57	Kosmos 11K63	-	-	Kosmos-501	DS-P1-Yu No. 50	-	-	GTsP-4	LC86/4	-	-	2145	-	-
1972-078	2441595.98	1972 Oct 5 1130:00	Kosmos 11K63	-	64657-135	Kosmos-523	DS-P1-Yu No. 63	-	-	NIIP-53	LC133/3	-	-	481	-	-
1972-080	2441602.06	1972 Oct 11 1319:58	Kosmos 11K63	-	64634-147	Kosmos-524	DS-P1-Yu No. 49	-	-	NIIP-53	LC133/3	-	-	510	-	-
1972-084	2441615.94	1972 Oct 25 1039:57	Kosmos 11K63	-	64657-136	Kosmos-526	DS-P1-Yu No. 61	-	-	NIIP-53	LC133/3	-	-	484	-	-
1972-094	2441652.41	1972 Nov 30 2149:57	Kosmos 11K63	-	29524-155	Interkosmos-8	DS-U1-IK No. 2	-	-	NIIP-53	LC133/3	-	-	673	-	-
1973-004	2441706.99	1973 Jan 24 1144:50	Kosmos 11K63	-	64653-169	Kosmos-545	DS-P1-Yu No. 62	-	-	NIIP-53	LC133/3	-	-	494	-	-
1973-020	2441784.99	1973 Apr 12 1149:55	Kosmos 11K63	-	29547-142	Kosmos-553	DS-P1-Yu No. 55	-	-	NIIP-53	LC133/3	-	-	492	-	-
1973-022	2441791.93	1973 Apr 19 1019:58	Kosmos 11K63	-	-	IK-Kopernik-500	DS-U2-IK Kopernik-500	-	-	GTsP-4	LC86/4	-	-	1527	-	-
1973-029	2441820.06	1973 May 17 1319:58	Kosmos 11K63	-	45734-143	Kosmos-558	DS-P1-Yu No. 65	-	-	NIIP-53	LC133/3	-	-	500	-	-
1973-A83	2441826.66	1973 May 24 0350	K63D	-	-	BOR-3 No. 301	-	-	-	VLAD	-	-	-	20?	-	BALKH
1973-035	2441838.98	1973 Jun 5 1129:47	Kosmos 11K63	-	64634-149	Kosmos-562	DS-P1-Yu No. 66	-	-	NIIP-53	LC133/3	-	-	483	-	-
1973-S568	2441888.50	1973 Jul 25	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1973-057	2441916.98	1973 Aug 22 1124:55	Kosmos 11K63	-	45734-141	Kosmos-580	DS-P1-Yu No. 59	-	-	NIIP-53	LC133/3	-	-	492	-	-
1973-075	2441972.08	1973 Oct 16 1400:01	Kosmos 11K63	-	29519-181	Kosmos-601	DS-P1-Yu No. 60	-	-	NIIP-53	LC133/3	-	-	1531	-	-
1973-091	2442007.02	1973 Nov 20 1229:58	Kosmos 11K63	-	29524-154	Kosmos-608	DS-P1-Yu No. 69	-	-	NIIP-53	LC133/3	-	-	501	-	-
1973-094	2442014.90	1973 Nov 28 0929:58	Kosmos 11K63	-	64653-170	Kosmos-611	DS-P1-Yu No. 64	-	-	NIIP-53	LC133/3	-	-	481	-	-
1973-099	2442029.97	1973 Dec 13 1110:03	Kosmos 11K63	-	45734-144	Kosmos-615	DS-P1-I No. 13	-	-	NIIP-53	LC133/3	-	-	833	-	-
1974-010	2442105.96	1974 Feb 27 1104:58	Kosmos 11K63	-	64643-161	Kosmos-633	DS-P1-Yu No. 71	-	-	NIIP-53	LC133/3	-	-	490	-	-
1974-012	2442112.17	1974 Mar 5 1604:55	Kosmos 11K63	-	64643-162	Kosmos-634	DS-P1-Yu No. 67	-	-	NIIP-53	LC133/3	-	-	601	-	-
1974-047	2442225.02	1974 Jun 26 1229:57	Kosmos 11K63	-	29543-163	Kosmos-662	DS-P1-I No. 14	-	-	NIIP-53	LC133/3	-	-	812	-	-
1974-S435	2442239.71	1974 Jul 11 0501	K63D	-	-	BOR-3 No. 302	-	-	-	VLAD	-	-	-	100	-	BALKH
1974-F04	2442239.96	1974 Jul 11 1059:58	Kosmos 11K63	-	29543-164	-	DS-P1-Yu No. 68	-	-	NIIP-53	LC133/3	-	-	30?	-	-
1974-058	2442254.00	1974 Jul 25 1206	Kosmos 11K63	-	29543-165	Kosmos-668	DS-P1-Yu No. 74	-	-	NIIP-53	LC133/3	-	-	494	-	-
1974-S528	2442257.50	1974 Jul 29	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1974-S529	2442259.50	1974 Jul 31	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1974-S530	2442280.50	1974 Aug 21	R-12U	-	-	8K63U 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1974-074	2442317.19	1974 Sep 26 1634:56	Kosmos 11K63	-	45753-166	Kosmos-686	DS-P1-Yu No. 72	-	-	NIIP-53	LC133/3	-	-	488	-	-
1974-091	2442372.00	1974 Nov 20 1159:58	Kosmos 11K63	-	45753-168	Kosmos-695	DS-P1-Yu No. 73	-	-	NIIP-53	LC133/3	-	-	468	-	-
1975-S407	2442412.50	1975	R-12U	-	-	8K63U UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1975-S362	2442412.50	1975	K63	-	-	MATSESTA 1	KSP PRO	-	-	GTsP-4	-	-	-	-	-	BALKH
1975-S363	2442412.50	1975?	K63	-	-	MATSESTA 2	KSP PRO	-	-	GTsP-4	-	-	-	-	-	BALKH
1975-S440	2442443.50	1975 Feb?	R-12	-	-	8K63U UBP	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1975-003	2442433.96	1975 Jan 21 1104:57	Kosmos 11K63	-	45753-167	Kosmos-703	DS-P1-Yu No. 70	-	-	NIIP-53	LC133/3	-	-	1517	-	-
1975-006	2442441.00	1975 Jan 28 1205:01	Kosmos 11K63	-	64643-171	Kosmos-705	DS-P1-Yu No. 75	-	-	NIIP-53	LC133/3	-	-	498	-	-
1975-026	2442511.27	1975 Apr 8 1829:56	Kosmos 11K63	-	64643-172	Kosmos-725	DS-P1-Yu No. 77	-	-	NIIP-53	LC133/3	-	-	482	-	-
1975-058	2442588.00	1975 Jun 24 1204:58	Kosmos 11K63	-	45753-173	Kosmos-745	DS-P1-Yu No. 76	-	-	NIIP-53	LC133/3	-	-	521	-	-
1975-S408	2442610.50	1975 Jul 17	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1975-067	2442610.88	1975 Jul 17 0910:01	Kosmos 11K63	-	64653-175	Kosmos-750	DS-P1-I No. 15	-	-	NIIP-53	LC133/3	-	-	908	-	-
1976-S484	2442777.50	1976	R-12U	-	-	8K63U UBP	A-35OZh Target	-	-	GTsP-4	-	-	-	-	-	BALKH
1976-S485	2442777.50	1976	R-12U	-	-	8K63U UBP	A-35OZh Target	-	-	GTsP-4	-	-	-	-	-	BALKH
1976-S486	2442777.50	1976	R-12U	-	-	8K63U UBP	A-35OZh Target	-	-	GTsP-4	-	-	-	-	-	BALKH
1976-S366	2442777.50	1976?	K63	-	-	MATSESTA 3	KSP PRO	-	-	GTsP-4	-	-	-	-	-	BALKH
1976-012	2442814.10	1976 Feb 5 1430:03	Kosmos 11K63	-	64653-174	Kosmos-801	DS-P1-I No. 16	-	-	NIIP-53	LC133/3	-	-	797	-	-
1976-044	2442916.96	1976 May 18 1059:57	Kosmos 11K63	-	29519-182	Kosmos-818	DS-P1-Yu No. 78	-	-	NIIP-53	LC133/3	-	-	480	-	-
1976-083	2443008.90	1976 Aug 18 0930:01	Kosmos 11K63	-	64619-184	Kosmos-849	DS-P1-I No. 17	-	-	NIIP-53	LC133/3	-	-	863	-	-
1976-084	2443016.96	1976 Aug 26 1059:57	Kosmos 11K63	-	29519-183	Kosmos-850	DS-P1-Yu No. 79	-	-	NIIP-53	LC133/3	-	-	492	-	-
1977-S330	2443143.50	1977?	K63	-	-	MATSESTA 4	KSP PRO	-	-	GTsP-4	-	-	-	400?	-	BALKH
1977-025	2443238.94	1977 Apr 5 1030	Kosmos 11K63	-	45739-186	Kosmos-901	DS-P1-I No. 18	-	-	NIIP-53	LC133/3	-	-	820	-	-
1977-051	2443312.94	1977 Jun 18 1030	Kosmos 11K63	-	64619-185	Kosmos-919	DS-P1-I No. 19	-	-	NIIP-53	LC133/3	-	-	820	-	-
1977-S440	2443403.50	1977 Sep 17?	R-12	-	-	8K63 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1977-S441	2443403.50	1977 Sep 17?	R-12	-	-	8K63 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1977-S442	2443447.50	1977 Nov	R-12	-	-	8K63 43 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1978-S279	2443508.50	1978	K63	-	-	MATSESTA 5	KSP PRO	-	-	GTsP-4	-	-	-	402?	-	BALKH
1978-S331	2443659.50	1978 Jun	R-12	-	-	8K63 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1978-S332	2443659.50	1978 Jun	R-12	-	-	8K63 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1978-S333	2443782.50	1978 Oct 1	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1978-S334	2443784.50	1978 Oct 3	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1979-S303	2443965.50	1979 Apr 2	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1979-S304	2444177.50	1979 Nov	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1979-S305	2444207.50	1979 Dec	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1979-S306	2444207.50	1979 Dec	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1980-S287	2444387.50	1980 May 28?	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126 Aldan	-	GTsP-4	-	-	-	402?	-	BALKH
1980-S288	2444390.50	1980 Jun?	R-12	-	-	8K63 29 RD UBP	1 BB AA48	MGCh 8F126 Azov	-	GTsP-4	-	-	-	402?	-	BALKH
1980-S289	2444403.50	1980 Jun 13?	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1980-S290	2444514.50	1980 Oct 2?	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1980-S291	2444522.50	1980 Oct 10?	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1981-S255	2444844.50	1981 Aug 28?	R-12U	-	-	8K63U 29 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1981-S256	2444938.50	1981 Dec	R-12U	-	-	8K63U 40 RD UBP	-	-	-	GTsP-4	-	-	-	402?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-S257	2444938.50	1981 Dec	R-12U	-	-	8K63U 40 RD UBP	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1982-S281	2445242.50	1982 Oct	R-12U	-	-	8K63U 40 RD UBP	-	-	-	GTsP-4	-	-	-	402?	-	BALKH
1984-S209	2445699.50	1984	K63	-	-	Dzho 1	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1984-S276	2446034.50	1984 Dec	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1984-S277	2446034.50	1984 Dec	R-12U	-	-	8K63U 40 RD UBP	1 BB AA48	MGCh 8F126	-	GTsP-4	-	-	-	402?	-	BALKH
1986-S134	2446430.50	1986	K63	-	-	BAMBUK-M	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1986-S204	2446430.50	1986	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1986-S205	2446430.50	1986	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1987-S201	2446795.50	1987	K63	-	-	Pchela-2	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1987-S266	2446795.50	1987	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1987-S267	2446795.50	1987	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1987-S268	2446795.50	1987	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1988-S196	2447160.50	1988	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1988-S197	2447160.50	1988	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1988-S198	2447160.50	1988	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1989-S148	2447526.50	1989	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1989-S149	2447526.50	1989	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1989-S152	2447526.50	1989	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1990-S214	2447891.50	1990	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1990-S215	2447891.50	1990	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1991-S224	2448256.50	1991	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH
1992-S111	2448621.50	1992	K63	-	-	Amur-P	-	-	-	GTsP-4	-	-	-	400?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S41	2436011.50	1957 Jun 22	R-12	-	M2-3	0.000	MVS	MS	-	-	Test	RKAYu	Z10	-
1957-S49	2436023.50	1957 Jul 4	R-12	-	M2-4	0.000	MVS	MS	-	-	Test	Z10	RKAYu	-
1957-S50	2436032.50	1957 Jul 13	R-12	-	M3-5	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1957-S51	2436046.50	1957 Jul 27	R-12	-	M4-7	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1957-S70	2436052.50	1957 Aug 2	R-12	-	M4-8	0.000	MVS	MF	U	-	Test	Z10	MS5-65	[BMLX Jul29]
1957-S71	2436065.50	1957 Aug 15	R-12	-	M5-9	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1957-S101	2436079.50	1957 Aug 29	R-12	-	M3-6	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S59	2436350.50	1958 May 27	R-12	-	B1-9	0.000	MVS	MF	U	-	Test	Z10	RKAYu	-
1958-S74	2436358.50	1958 Jun 4	R-12	-	B1-8	0.000	MVS	MF	U	-	Test	MS5-65	RKAYu	-
1958-S75	2436367.50	1958 Jun 13	R-12	-	B1-10	0.000	MVS	MS	-	-	Test	RKAYu	-	-
1958-S76	2436373.50	1958 Jun 19	R-12	-	B1-11	0.000	MVS	MS	-	-	Test	MS5-65	RKAYu	-
1958-S112	2436435.50	1958 Aug 20	R-12	-	B1-7	0.000	MVS	MS	-	-	Test	Z10	RKAYu	-
1958-S113	2436438.50	1958 Aug 23	R-12	-	B1-12	0.000	MVS	MS	-	-	Test	Z10	RKAYu	-
1958-S187	2436454.50	1958 Sep 8	R-12	-	B1-5	0.000	MVS	MS	-	-	Test	Z10	RKAYu	-
1958-S188	2436469.50	1958 Sep 23	R-12	-	B1-4	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S209	2436478.50	1958 Oct 2	R-12	-	B1-3	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S210	2436490.50	1958 Oct 14	R-12	-	B1-6	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S240	2436531.50	1958 Nov 24	R-12	-	B1-15	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S272	2436541.50	1958 Dec 4	R-12	-	B1-13	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S273	2436547.50	1958 Dec 10	R-12	-	B1-14	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S284	2436549.50	1958 Dec 12	R-12	-	B1-18	0.000	MVS	MS	-	-	OT	RKAYu	MS5-65	-
1958-S295	2436561.50	1958 Dec 24	R-12	-	B1-17	0.000	MVS	MS	-	-	OT	Z10	MS5-65	-
1958-S298	2436562.50	1958 Dec 25	R-12	-	B2-15T	0.000	MVS	MS	-	-	OT	Z10	MS5-65	-
1958-S300	2436564.50	1958 Dec 27	R-12	-	B1-16	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1958-S302	2436567.50	1958 Dec 30	R-12	-	B3-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S38	2436657.50	1959 Mar 30	R-12	-	I1-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S46	2436669.50	1959 Apr 11	R-12	-	I1-5T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S47	2436672.50	1959 Apr 14	R-12	-	I1-3T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S57	2436687.50	1959 Apr 29	R-12	-	I2-1	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S66	2436700.50	1959 May 12	R-12	-	IO1-08T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S70	2436702.50	1959 May 14	R-12	-	I2-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S72	2436703.50	1959 May 15	R-12	-	I2-2	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S79	2436718.50	1959 May 30	R-12	-	I3-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S81	2436721.50	1959 Jun 2	R-12	-	IO1-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S87	2436724.50	1959 Jun 5	R-12	-	I2-3	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S88	2436736.50	1959 Jun 17	R-12	-	I3-10T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S123	2436773.50	1959 Jul 24	R-12	-	ID4-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S126	2436775.50	1959 Jul 26	R-12	-	IO2-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S127	2436777.50	1959 Jul 28	R-12	-	B2-5	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S128	2436777.50	1959 Jul 28	R-12	-	B2-8	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S131	2436780.50	1959 Jul 31	R-12	-	B2-10T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S136	2436787.50	1959 Aug 7	R-12	-	IO1-11T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-A136	2436793.50	1959 Aug 13	R-12	-	IO1-067B	0.000	MVS	MF	U	-	Test	Z10	MS5-65	-
1959-S149	2436806.50	1959 Aug 26	R-12	-	ID6-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S154	2436808.50	1959 Aug 28	R-12	-	IP2-5T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-A156	2436813.50	1959 Sep 2	R-12	-	ID3-19Sh	0.000	MVS	MF	U	-	Test	NK9906-11	Z10	-
1959-S161	2436816.50	1959 Sep 5	R-12	-	IP2-4T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S172	2436826.50	1959 Sep 15	R-12	-	I1-4T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S186	2436836.50	1959 Sep 25	R-12	-	BD2-7	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S187	2436839.50	1959 Sep 28	R-12	-	ID7-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S201	2436849.50	1959 Oct 8	R-12	-	IO3-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-A171	2436851.50	1959 Oct 10	R-12	-	B2-3	0.000	MVS	MF	U	-	Test	Z10	MS5-65	-
1959-S202	2436851.50	1959 Oct 10	R-12	-	IP4-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S221	2436866.50	1959 Oct 25	R-12	-	ID8-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-A183	2436868.50	1959 Oct 27	R-12	-	B2-9	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S254	2436902.50	1959 Nov 30	R-12	-	ID9-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S270	2436918.50	1959 Dec 16	R-12	-	IO4-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S273	2436920.50	1959 Dec 18	R-12	-	IP5-10T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1959-S275	2436923.42	1959 Dec 20 2200	R-12	-	ID3-24Sh	0.000	MVS	MS	-	-	Test	Z10	NK9906-11	-
1959-S279	2436929.50	1959 Dec 27	R-12	-	ID3-25Sh	0.000	MVS	MS	-	-	Test	NK9906-11	Z10	-
1959-S280	2436930.50	1959 Dec 28	R-12	-	ID10-20T	0.000	MVS	MS	-	-	Test	Z10	MS5-65	-
1960-S448	2436933.50	1960	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1960-S14	2436951.50	1960 Jan 18	R-12	-	LO1-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S25	2436962.50	1960 Jan 29	R-12	-	LD1-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-A46	2436978.09	1960 Feb 13 1403	R-12	-	LP1-20T	0.000	MVS	MF	U	-	Test	Z20	-	-
1960-S56	2437013.50	1960 Mar 20	R-12	-	LD2-20P	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S60	2437017.50	1960 Mar 24	R-12	-	LD3-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S63	2437018.50	1960 Mar 25	R-12	-	B2-11T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S65	2437021.50	1960 Mar 28	R-12	-	B2-12T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S68	2437022.50	1960 Mar 29	R-12	-	LP1-10T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S69	2437024.50	1960 Mar 31	R-12	-	2LO2-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S89	2437053.50	1960 Apr 29	R-12	-	2LD5-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S93	2437059.50	1960 May 5	R-12	-	2LO3-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S95	2437060.50	1960 May 6	R-12	-	2LP2-1T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S91	2437080.50	1960 May 26	R-12	-	LD4-1	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S111	2437084.50	1960 May 30	R-12	-	2LO4-20T	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S112	2437088.50	1960 Jun 3	R-12	-	LD4-2	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S113	2437094.50	1960 Jun 9	R-12	-	LD4-3	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S143	2437109.50	1960 Jun 24	R-12	-	LD6-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S152	2437114.50	1960 Jun 29	R-12	-	2LO5-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S154	2437122.50	1960 Jul 7	R-12	-	LD4-4	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S155	2437125.50	1960 Jul 10	R-12	-	LD4-5	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S170	2437127.50	1960 Jul 12	R-12	-	LD1-7	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S171	2437128.50	1960 Jul 13	R-12	-	2LD7-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S157	2437132.50	1960 Jul 17	R-12	-	LD4-6	0.000	MVS	MS	-	-	Test	Z20	MS5-65	-
1960-S156	2437136.50	1960 Jul 21	R-12	-	ID5-1TS	0.000	MVS	MS	-	-	Test	Z20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S192	2437139.50	1960 Jul 24	R-12	-	ID10-18Sh	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S195	2437141.50	1960 Jul 26	R-12	-	LP1-2	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S199	2437143.50	1960 Jul 28	R-12	-	LP1-8	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S203	2437144.50	1960 Jul 29	R-12	-	2LD8-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-A186	2437148.50	1960 Aug 2	R-12	-	IO3-1TKL	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1960-S220	2437150.50	1960 Aug 4	R-12	-	2LP3-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S208	2437150.50	1960 Aug 4	R-12	-	LP1-1	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S223	2437154.50	1960 Aug 8	R-12	-	LP1-4	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S228	2437156.50	1960 Aug 10	R-12	-	ID5-2TS	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S207	2437156.50	1960 Aug 10	R-12	-	LP1-5	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S233	2437157.50	1960 Aug 11	R-12	-	20L06-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S236	2437158.50	1960 Aug 12	R-12	-	LP1-6	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S248	2437163.50	1960 Aug 17	R-12	-	ID5-3TS	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S301	2437176.50	1960 Aug 30	R-12	-	2LD9-20TS	0.000	MVS	MS	-	-	Test	Z20	RML	-
1960-S266	2437182.50	1960 Sep 5	R-12	-	LP1-3	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S270	2437192.50	1960 Sep 15	R-12	-	ID3-6	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S273	2437194.50	1960 Sep 17	R-12	-	ID3-13	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S279	2437199.50	1960 Sep 22	R-12	-	ID3-9	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S285	2437201.50	1960 Sep 24	R-12	-	2LD10-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S291	2437205.50	1960 Sep 28	R-12	-	2LD11-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S295	2437206.50	1960 Sep 29	R-12	-	2LT4-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S298	2437207.50	1960 Sep 30	R-12	-	I23-5	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S299	2437207.50	1960 Sep 30	R-12	-	2AO3-26T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S300	2437210.50	1960 Oct 3	R-12	-	ID3-7	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S410	2437212.50	1960 Oct 5	R-12	-	ID5-4TS	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S411	2437214.50	1960 Oct 7	R-12	-	2107-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S323	2437215.50	1960 Oct 8	R-12	-	2LO3-26T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S326	2437224.50	1960 Oct 17	R-12	-	ID3-10	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S327	2437225.50	1960 Oct 18	R-12	-	ID3-21	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S329	2437226.50	1960 Oct 19	R-12	-	I25-6TS	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-A238	2437227.50	1960 Oct 20	R-12	-	ID3-14	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1960-S330	2437228.50	1960 Oct 21	R-12	-	ID5-57S	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S333	2437238.50	1960 Oct 31	R-12	-	ID3-15	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S338	2437238.50	1960 Oct 31	R-12	-	IO2-18	0.000	MVS	MF	U	-	Test	Z20	-	-
1960-S342	2437239.50	1960 Nov 1	R-12	-	ID3-4	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S345	2437242.50	1960 Nov 4	R-12	-	2LD12-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S346	2437242.50	1960 Nov 4	R-12	-	2LO8-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S347	2437242.50	1960 Nov 4	R-12	-	LO1-15	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S418	2437248.50	1960 Nov 10	R-12	-	ID3-17	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S358	2437250.50	1960 Nov 12	R-12	-	2LD11-19T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1960-S419	2437260.50	1960 Nov 22	R-12	-	ID3-12	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S421	2437261.50	1960 Nov 23	R-12	-	ID3-8	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S501	2437262.50	1960 Nov 24	R-12	-	ID3-11	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S385	2437268.50	1960 Nov 30	R-12	-	21013-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S400	2437280.50	1960 Dec 12	R-12	-	2LP5-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S401	2437281.50	1960 Dec 13	R-12	-	2LOR1-3T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S408	2437283.50	1960 Dec 15	R-12	-	6LD-5-7TS	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S409	2437284.50	1960 Dec 16	R-12	-	ID5-8TS	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S442	2437287.50	1960 Dec 19	R-12	-	ID5-9TS	0.000	MVS	MS	-	-	Test	RML	-	-
1960-S416	2437288.50	1960 Dec 20	R-12	-	ID5-10TS	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S423	2437291.50	1960 Dec 23	R-12	-	2LD14-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S426	2437294.50	1960 Dec 26	R-12	-	2LO9-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1960-S427	2437295.50	1960 Dec 27	R-12	-	2LOR1-5T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S14	2437309.50	1961 Jan 10	R-12	-	2LOR1-1T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S16	2437312.50	1961 Jan 13	R-12	-	2LOR1-2T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S18	2437313.50	1961 Jan 14	R-12	-	2LOR-4T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S32	2437331.50	1961 Feb 1	R-12	-	E22601-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S39	2437340.50	1961 Feb 10	R-12	-	E23101-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S40	2437340.50	1961 Feb 10	R-12	-	2LO3-14	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S472	2437354.50	1961 Feb 24	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-A68	2437360.50	1961 Mar 2	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S64	2437360.50	1961 Mar 2	R-12	-	B2-2	0.000	SKB30	MS	-	-	Target	VSA070	-	-
1961-S70	2437362.50	1961 Mar 4	R-12	-	-	0.000	SKB30	MS	-	-	Target	VSA070	Pervov-A	-
1961-S78	2437368.50	1961 Mar 10	R-12	-	2E22901-10T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S79	2437369.50	1961 Mar 11	R-12	-	E22602-207	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S85	2437375.50	1961 Mar 17	R-12	-	2LO3-15	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S89	2437383.50	1961 Mar 25	R-12	-	2E23102-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S94	2437385.50	1961 Mar 27	R-12	-	2LD4-11	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-S95	2437387.50	1961 Mar 29	R-12	-	2LD4-9	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-S480	2437390.50	1961 Apr 1	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1961-S101	2437392.50	1961 Apr 3	R-12	-	2LO4-8	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S102	2437395.50	1961 Apr 6	R-12	-	2LO4-7	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S106	2437396.50	1961 Apr 7	R-12	-	LO1-17	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S108	2437399.50	1961 Apr 10	R-12	-	2LD4-10	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S473	2437402.50	1961 Apr 13	R-12	-	LO1-14	0.000	MVS	MF	U	-	Test	BMLX	-	-
1961-S114	2437408.50	1961 Apr 19	R-12	-	B2-13T	0.000	MVS	MF	U	-	Test	Z20	-	-
1961-S127	2437416.50	1961 Apr 27	R-12	-	2E22603-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S129	2437417.50	1961 Apr 28	R-12	-	E23103-107	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S474	2437417.50	1961 Apr 28	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-S475	2437417.50	1961 Apr 28	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-S141	2437429.50	1961 May 10	R-12	-	2LD4-10	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S162	2437448.50	1961 May 29	R-12	-	LO1-14	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S171	2437458.50	1961 Jun 8	R-12	-	ID10-19Sh	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S172	2437459.50	1961 Jun 9	R-12	-	ID14-12A	0.000	SKB30	MS	-	-	Target	VSA070	Pervov-A	-
1961-S178	2437465.50	1961 Jun 15	R-12	-	2E22902-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S186	2437474.50	1961 Jun 24	R-12	-	ID5-20A	0.000	SKB30	MS	-	-	Target	Z20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S191	2437479.50	1961 Jun 29	R-12	-	2E23104-10T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S193	2437480.50	1961 Jun 30	R-12	-	ID4-11A	0.000	SKB30	MS	-	-	Target	Z20	-	-
1961-S217	2437502.50	1961 Jul 22	R-12	-	IPCh-10TKL	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S218	2437505.50	1961 Jul 25	R-12	-	2E22605-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S223	2437507.50	1961 Jul 27	R-12	-	2L09-10	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S243	2437526.50	1961 Aug 15	R-12	-	2E22903-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S259	2437541.50	1961 Aug 30	R-12	-	2E22606-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S261	2437542.50	1961 Aug 31	R-12	-	2E23105-10T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S463	2437545.50	1961 Sep 3	R-12	-	2E23104-16	0.000	RVSN	MS	-	-	Nuclear test support	BMLX	-	-
1961-S464	2437546.50	1961 Sep 4	R-12	-	2E23104-15	0.000	RVSN	MS	-	-	Nuclear test support	BMLX	-	-
1961-S277	2437553.50	1961 Sep 11	R-12	-	2E23102T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S278	2437554.71	1961 Sep 12 0500?	R-12	-	2E23104-14T	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S280	2437555.50	1961 Sep 13	R-12	-	2E23101-T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S465	2437558.50	1961 Sep 16	R-12	-	2E23104-18T	0.000	RVSN	MS	-	-	Nuclear test support	BMLX	-	-
1961-S297	2437568.50	1961 Sep 26	R-12	-	2E22904-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-S262	2437570.50	1961 Sep 28	R-12	-	ID5-11	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S303	2437572.50	1961 Sep 30	R-12	-	2E23106-10T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S307	2437576.50	1961 Oct 4	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S304	2437584.50	1961 Oct 12	R-12	-	LP1-14	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S305	2437587.50	1961 Oct 15	R-12	-	ID5-12	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S306	2437587.50	1961 Oct 15	R-12	-	LP1-15	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S308	2437589.50	1961 Oct 17	R-12	-	ID15-14	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S309	2437589.50	1961 Oct 17	R-12	-	LP1-16	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S310	2437593.50	1961 Oct 21	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S311	2437593.50	1961 Oct 21	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S456	2437596.50	1961 Oct 24	R-12	-	LP1-18	0.000	MVS	MS	-	-	Test	Zak06	-	-
1961-S314	2437596.50	1961 Oct 24	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S354	2437599.50	1961 Oct 27	R-12	-	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S461	2437599.50	1961 Oct 27	R-12	-	-	0.000	PRO	MS	-	-	Nuclear Test support	BMLX	-	-
1961-S355	2437599.50	1961 Oct 27	R-12	-	ID5-17	0.000	RVSN	MS	-	-	Nuclear test	Podvig	-	-
1961-S462	2437599.50	1961 Oct 27	R-12	-	ID5-19	0.000	PRO	MF	U	-	Nuclear Test support	BMLX	-	-
1961-F11	2437600.19	1961 Oct 27 1630	Kosmos 63S1	-	1LK	0.160	RVSN	OF	S1G	G	Sat LEO O	AVMDS	-	Silo vibration issue
1961-S313	2437602.50	1961 Oct 30	R-12	-	2E22607-20T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S362	2437603.50	1961 Oct 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	Z20	BMLX	-
1961-S479	2437603.50	1961 Nov	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1961-S388	2437628.50	1961 Nov 25	R-12	-	2E22905-25T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S404	2437635.50	1961 Dec 2	R-12	-	2E22608-20T	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1961-F15	2437655.02	1961 Dec 21 1230	Kosmos 63S1	-	2LK	0.160	RVSN	OF	S2U	G	Sat LEO O	AVMDS	-	Fuel depletion
1961-S435	2437656.50	1961 Dec 23	R-12	-	2E23601-15T	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S440	2437660.50	1961 Dec 27	R-12	-	-	0.000	RVSN	TS	-	-	Reentry Test	Siddiqi	BMLX	[or VLAD?]
1961-S442	2437662.50	1961 Dec 29	R-12	-	2E22607-19	0.000	MVS	MS	-	-	Test	Z20	-	-
1961-S477	2437663.86	1961 Dec 30 0836	R-12U	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1962-S666	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S667	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S668	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S669	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S670	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S671	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S672	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S673	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S674	2437664.50	1962?	R-12	-	-	0.000	MVS	MS	-	-	Reentry Test	RML	-	-
1962-S27	2437691.50	1962 Jan 27	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S31	2437694.50	1962 Jan 30	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S40	2437713.35	1962 Feb 17 2025	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1962-S675	2437713.37	1962 Feb 17 2055	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1962-S45	2437716.50	1962 Feb 21	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S61	2437729.50	1962 Mar 6	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 THE	2437740.00	1962 Mar 16 1159	Kosmos 63S1	-	6LK	0.047	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1962-S85	2437754.50	1962 Apr	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S90	2437760.50	1962 Apr 6	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 IOT	2437761.22	1962 Apr 6 1715	Kosmos 63S1	-	5LK	0.224	RVSN	OS	-	G	Sat LEO O	NK9707-75	-	-
1962-S92	2437764.50	1962 Apr 10	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S97	2437767.50	1962 Apr 13	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1962-S98	2437767.50	1962 Apr 13	R-12	-	-	0.000	MVS	MS	-	-	Test	Z20	-	-
1962-S99	2437768.50	1962 Apr 14	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 NU	2437778.67	1962 Apr 24 0400	Kosmos 63S1	-	4LK	0.251	RVSN	OS	-	G	Sat LEO O	NK9709-63	-	-
1962-S109	2437780.50	1962 Apr 26	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S132	2437801.50	1962 May 17	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S138	2437806.50	1962 May 22	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S144	2437811.50	1962 May 27	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 UPS	2437812.62	1962 May 28 0300	Kosmos 63S1	-	3LK	0.252	RVSN	OS	-	G	Sat LEO O	NK9711-45	-	-
1962-S148	2437814.50	1962 May 30	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S172	2437822.50	1962 Jun 7	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S187	2437830.50	1962 Jun 15	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S191	2437834.50	1962 Jun 19	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S198	2437837.50	1962 Jun 22	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S199	2437841.50	1962 Jun 26	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S202	2437842.50	1962 Jun 27	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S205	2437843.50	1962 Jun 28	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S209	2437844.50	1962 Jun 29	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 A DEL	2437846.17	1962 Jun 30 1600	Kosmos 63S1	-	-	0.240	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1962-S219	2437849.50	1962 Jul 4	R-12	?	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S269	2437872.50	1962 Jul 27	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-A117	2437874.10	1962 Jul 28 1417	R-12	-	2T23104-20T	0.000	MVS	MF	U	-	Test	Z20	-	-
1962-S271	2437875.50	1962 Jul 30	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S282	2437884.50	1962 Aug 8	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S288	2437886.50	1962 Aug 10	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S296	2437891.50	1962 Aug 15	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 A XI	2437895.12	1962 Aug 18 1500	Kosmos 63S1	-	-	0.235	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1962-S648	2437907.50	1962 Sep	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1962-S649	2437907.50	1962 Sep	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1962-S321	2437911.50	1962 Sep 4	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S335	2437922.50	1962 Sep 15	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S338	2437926.50	1962 Sep 19	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-A155	2437927.50	1962 Sep 20	R-12	-	-	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1962-S340	2437927.50	1962 Sep 20	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S362	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S363	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S364	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S365	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S366	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S367	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S368	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S369	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S370	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S371	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S372	2437937.50	1962 Oct	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962 B THE	2437957.67	1962 Oct 20 0400	Kosmos 63S1	-	-	0.220	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1962-S646	2437959.50	1962 Oct 22	R-12	-	-	0.000	PRO	MS	-	-	Target?	BMLX	-	-
1962-S411	2437959.65	1962 Oct 22 0335?	R-12	-	Burst 0340Z	0.000	RVSN	MS	-	-	Nuclear test	www.fas.org	-	-
1962-F08	2437962.79	1962 Oct 25 0700	Kosmos 63S1	-	7LK	0.224	RVSN	OF	S1G	G	Sat LEO O	AK15	AVMNLJ	Control sys failed
1962-S647	2437965.50	1962 Oct 28	R-12	-	-	0.000	PRO	MS	-	-	Target?	BMLX	-	-
1962-S437	2437965.67	1962 Oct 28 0410?	R-12	-	-	0.000	RVSN	MS	-	-	Nuclear test	www.fas.org	-	-
1962-S654	2437969.50	1962 Nov 1	R-12	-	-	0.000	PRO	MS	-	-	Target?	BMLX	-	-
1962-S635	2437969.97	1962 Nov 1 1115	R-12	-	-	0.000	RVSN	MS	-	-	Nuclear Test	NK9620-53	-	-
1962-S442	2437968.50	1962 Nov	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S443	2437968.50	1962 Nov	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S483	2437987.50	1962 Nov 19	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S488	2437992.50	1962 Nov 24	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S500	2437997.50	1962 Nov 29	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S535	2438004.50	1962 Dec 6	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S542	2438005.50	1962 Dec 7	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S550	2438009.50	1962 Dec 11	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S564	2438012.50	1962 Dec 14	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S572	2438017.50	1962 Dec 19	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S576	2438019.50	1962 Dec 21	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S579	2438023.50	1962 Dec 25	R-12	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1962-S650	2438025.50	1962 Dec 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1962-S651	2438027.50	1962 Dec 29	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1963-S16	2438051.50	1963 Jan 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S31	2438061.50	1963 Feb 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S37	2438065.50	1963 Feb 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S40	2438068.50	1963 Feb 8	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S49	2438074.50	1963 Feb 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S76	2438089.50	1963 Mar 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S82	2438095.50	1963 Mar 7	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S88	2438100.50	1963 Mar 12	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S97	2438103.50	1963 Mar 15	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S99	2438104.50	1963 Mar 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S142	2438104.50	1963 Mar 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1963-S105	2438107.50	1963 Mar 19	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S110	2438109.99	1963 Mar 21 1140	R-12U	-	-	0.000	RVSN	TS	-	-	Reentry Test	RML	LukaAfan	[Or VLAD?]
1963-S112	2438113.50	1963 Mar 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S115	2438116.50	1963 Mar 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-F05	2438125.63	1963 Apr 6 0301	Kosmos 63S1	-	-	0.240	RVSN	OF	S1	G	Sat LEO O	AK15	AVMDS	Details unknown
1963-S139	2438128.50	1963 Apr 9	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-010	2438132.96	1963 Apr 13 1100:00	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AK16	-	-
1963-017	2438171.62	1963 May 22 0300	Kosmos 63S1	-	-	0.220	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1963-F08	2438181.62	1963 Jun 1 0250	Kosmos 63S1	-	-	0.247	RVSN	OF	S1P	G	Sat LEO O	AVMDS	-	Fail T+4s
1963-S301	2438206.50	1963 Jun 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S330	2438215.50	1963 Jul 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S337	2438221.50	1963 Jul 11	R-12U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1963-S650	2438225.50	1963 Jul 15	R-12U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1963-S342	2438229.50	1963 Jul 19	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S354	2438235.50	1963 Jul 25	R-12U	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	RKAYu	-
1963-S357	2438236.50	1963 Jul 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	BMLX	-
1963-S358	2438236.50	1963 Jul 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S359	2438236.50	1963 Jul 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S364	2438238.50	1963 Jul 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1963-S651	2438238.50	1963 Jul 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1963-S652	2438238.50	1963 Jul 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1963-S663	2438238.50	1963 Jul 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1963-033	2438247.75	1963 Aug 6 0607	Kosmos 63S1	-	-	0.240	RVSN	OS	-	G	Sat LEO O	RML	AVMDS	-
1963-S385	2438250.50	1963 Aug 9	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-F11	2438263.75	1963 Aug 22 0600	Kosmos 63S1	-	-	0.220	RVSN	OF	S1	G	Sat LEO O	AK15	-	Details unknown
1963-S404	2438264.50	1963 Aug 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S412	2438271.50	1963 Aug 30	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S419	2438272.50	1963 Aug 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S432	2438278.50	1963 Sep 6	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S445	2438291.50	1963 Sep 19	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S446	2438292.50	1963 Sep 20	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S448	2438293.50	1963 Sep 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S471	2438303.50	1963 Oct 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S478	2438306.50	1963 Oct 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S484	2438313.50	1963 Oct 11	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S489	2438317.50	1963 Oct 15	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S649	2438324.50	1963 Oct 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1963-S645	2438324.50	1963 Oct 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1963-F13	2438326.69	1963 Oct 24 0430	Kosmos 63S1	-	-	0.220	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMDS	S2 failed at T+5:53
1963-S517	2438328.50	1963 Oct 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S541	2438338.50	1963 Nov 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S557	2438349.50	1963 Nov 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S566	2438356.50	1963 Nov 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S571	2438360.50	1963 Nov 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S576	2438362.50	1963 Nov 29	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S580	2438366.50	1963 Dec 3	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S581	2438366.50	1963 Dec 3	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S584	2438367.50	1963 Dec 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-S592	2438373.50	1963 Dec 10	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1963-A184	2438375.50	1963 Dec 12	R-12U	-	-	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1963-050	2438377.09	1963 Dec 13 1415:24	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1963-S604	2438380.50	1963 Dec 17	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S20	2438403.50	1964 Jan 9	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S29	2438408.50	1964 Jan 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S46	2438417.50	1964 Jan 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S66	2438425.50	1964 Jan 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S819	2438427.50	1964 Feb 2	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1964-S80	2438433.50	1964 Feb 8	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S90	2438438.50	1964 Feb 13	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S103	2438443.50	1964 Feb 18	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-010	2438453.06	1964 Feb 27 1330	Kosmos 63S1	-	-	0.240	RVSN	OS	-	G	Sat LEO O	Z20	AVMDS	-
1964-S125	2438454.50	1964 Feb 29	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S130	2438458.50	1964 Mar 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S135	2438464.50	1964 Mar 10	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S141	2438465.50	1964 Mar 11	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-013	2438473.13	1964 Mar 18 1507?	Kosmos 63S1	-	-	0.285	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1964-S162	2438477.50	1964 Mar 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S164	2438478.50	1964 Mar 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-A43	2438481.50	1964 Mar 27	R-12U	-	-	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-S228	2438512.50	1964 Apr 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S280	2438551.50	1964 Jun 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-028	2438552.75	1964 Jun 6 0600?	Kosmos 63S1	-	-	0.247	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1964-S291	2438557.50	1964 Jun 11	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S319	2438577.50	1964 Jul 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S323	2438578.50	1964 Jul 2	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S328	2438583.50	1964 Jul 7	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S333	2438584.50	1964 Jul 8	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S340	2438586.50	1964 Jul 10	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S345	2438590.50	1964 Jul 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S364	2438593.50	1964 Jul 17	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S365	2438593.50	1964 Jul 17	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-A107	2438597.50	1964 Jul 21	R-12U	-	-	0.000	MVS	MF	U	-	Test	MS5-65	-	-
1964-042	2438606.65	1964 Jul 30 0336?	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1964-S396	2438607.50	1964 Jul 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S400	2438611.50	1964 Aug 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S404	2438613.50	1964 Aug 6	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S405	2438613.50	1964 Aug 6	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S437	2438627.50	1964 Aug 20	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-050	2438629.96	1964 Aug 22 1100	Kosmos 63S1	-	-	0.100	RVSN	OS	-	G	Sat LEO O	AK12	-	-
1964-S444	2438633.50	1964 Aug 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S470	2438654.50	1964 Sep 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S496	2438668.50	1964 Sep 30	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S503	2438674.50	1964 Oct 6	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S512	2438677.50	1964 Oct 9	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S523	2438684.50	1964 Oct 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-069	2438692.72	1964 Oct 24 0517	Kosmos 63S1	-	-	0.285	RVSN	OS	-	G	Sat LEO O	AK15	AVMDS	-
1964-F13	2438730.86	1964 Dec 1 0845	Kosmos 63S1	-	-	0.047	RVSN	OF	FF	G	Sat LEO O	AK15	-	Fairing structural f.
1964-080	2438739.46	1964 Dec 9 2300	Kosmos 63S1	-	-	0.247	RVSN	OS	-	G	Sat LEO O	AK15	AVMDS	-
1964-S680	2438744.50	1964 Dec 15	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S699	2438747.50	1964 Dec 18	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S701	2438752.50	1964 Dec 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S702	2438755.50	1964 Dec 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1964-S703	2438756.50	1964 Dec 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-006	2438790.90	1965 Jan 30 0936?	Kosmos 63S1	-	-	0.220	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1965-F02	2438804.00	1965 Feb 12 1200	Kosmos 63S1	-	-	0.240	RVSN	OF	S2	G	Sat LEO O	AK15	-	Details unknown
1965-F03	2438811.77	1965 Feb 20 0630	Kosmos 63S1	-	-	0.220	RVSN	OF	S1P	G	Sat LEO O	AK15	-	Fail at T+64s
1965-S802	2438816.50	1965 Feb 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1965-S818	2438816.50	1965 Feb 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-S819	2438816.50	1965 Feb 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-S820	2438816.50	1965 Feb 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-S803	2438817.50	1965 Feb 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1965-S163	2438835.50	1965 Mar 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S195	2438845.50	1965 Mar 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-S239	2438866.50	1965 Apr 16	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S248	2438874.50	1965 Apr 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S288	2438893.02	1965 May 12 1230	R-12U	-	-	0.000	MVS	MS	-	-	Test	MS5-65	-	-
1965-S807	2438915.50	1965 Jun 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1965-052	2438943.77	1965 Jul 2 0629	Kosmos 63S1	-	-	0.220	RVSN	OS	-	G	Sat LEO O	AK15	AVMDS	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S817	2438958.50	1965 Jul 17	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-059	2438964.69	1965 Jul 23 0434	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AK15	AVMDS	-
1965-S805	2438977.50	1965 Aug 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1965-S806	2439004.50	1965 Sep 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1965-084	2439052.74	1965 Oct 19 0544?	Kosmos 11K63	-	-	0.240	RVSN	OS	-	G	Sat LEO O	RAE/AK15	AVMDS	-
1965-088	2439068.73	1965 Nov 4 0531?	Kosmos 11K63	-	-	0.240	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1965-095	2439091.01	1965 Nov 26 1214?	Kosmos 11K63	-	-	0.230	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1965-S814	2439094.50	1965 Dec?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1965-107	2439115.76	1965 Dec 21 0614?	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1965-F12	2439122.84	1965 Dec 28 0810	Kosmos 63S1	-	-	0.200	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMDS	Fuel feed system
1966-S775	2439125.50	1966	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-004	2439151.02	1966 Jan 25 1228?	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-S780	2439156.50	1966 Feb	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-011	2439168.25	1966 Feb 11 1800?	Kosmos 63S1	-	-	0.291	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-F02	2439178.06	1966 Feb 21 1330	Kosmos 63S1	-	-	0.200	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMDS	Abnormal engine cutoff
1966-S781	2439215.50	1966 Apr	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S782	2439215.50	1966 Apr	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-036	2439241.92	1966 Apr 26 1004?	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-043	2439269.73	1966 May 24 0531?	Kosmos 11K63	-	-	1.126	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-S783	2439299.50	1966 Jun 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S784	2439312.50	1966 Jul 6	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-061	2439314.73	1966 Jul 8 0531?	Kosmos 63S1	-	-	0.200	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-S785	2439368.50	1966 Sep	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S776	2439389.50	1966 Sep 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S786	2439399.50	1966 Oct 1	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S777	2439410.50	1966 Oct 12	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S778	2439417.50	1966 Oct 19	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1966-S806	2439420.50	1966 Oct 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1966-S805	2439455.50	1966 Nov 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1966-S787	2439459.50	1966 Nov 30	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1966-S804	2439471.50	1966 Dec 12	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1966-112	2439472.36	1966 Dec 12 2038?	Kosmos 11K63	-	-	0.280	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-117	2439481.05	1966 Dec 21 1312?	Kosmos 63S1	-	-	0.237	RVSN	OS	-	G	Sat LEO O	RAE	AVMDS	-
1966-S788	2439481.50	1966 Dec 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S745	2439523.50	1967 Feb 2	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S751	2439528.50	1967 Feb 7	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-013	2439535.92	1967 Feb 14 1004:56	Kosmos 11K63	-	-	0.286	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-019	2439552.78	1967 Mar 3 0644:58	Kosmos 11K63	-	-	0.280	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-023	2439566.23	1967 Mar 16 1730	Kosmos 11K63	-	U231-05	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-024	2439570.92	1967 Mar 21 1007	Kosmos 11K63	-	-	0.321	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-028	2439574.79	1967 Mar 25 0659:30	Kosmos 11K63	-	U231-08	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-S746	2439580.50	1967 Apr	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S752	2439585.50	1967 Apr 5	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S747	2439606.50	1967 Apr 26	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S748	2439646.50	1967 Jun 5	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-056	2439646.71	1967 Jun 5 0503	Kosmos 11K63	-	-	0.280	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-059	2439654.25	1967 Jun 12 1806	Kosmos 11K63	-	N231-12	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-S749	2439654.50	1967 Jun 13	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-061	2439657.70	1967 Jun 16 0444	Kosmos 11K63	-	-	0.285	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-S762	2439702.50	1967 Aug	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-081	2439726.71	1967 Aug 24 0459:49	Kosmos 11K63	-	U231-10	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-086	2439746.21	1967 Sep 12 1700	Kosmos 11K63	-	N231-08	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-S763	2439760.50	1967 Sep 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S753	2439786.50	1967 Oct 23	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-S754	2439791.50	1967 Oct 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1967-115	2439816.10	1967 Nov 21 1429:48	Kosmos 11K63	-	U231-11	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-125	2439843.77	1967 Dec 19 0630:07	Kosmos 63S1	-	-	0.291	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-126	2439850.88	1967 Dec 26 0901:59	Kosmos 11K63	-	-	0.240	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1967-S750	2439851.50	1967 Dec 27	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S745	2439855.50	1968	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S746	2439855.50	1968?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S783	2439855.50	1968?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S784	2439855.50	1968?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S785	2439855.50	1968?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S792	2439855.50	1968?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S757	2439886.50	1968 Feb	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-010	2439906.92	1968 Feb 20 1003:11	Kosmos 11K63	-	-	0.240	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-015	2439920.97	1968 Mar 5 1120?	Kosmos 11K63	-	U231-06	0.200	RVSN	OS	-	G	Sat LEO O	TLE	AVMDS	-
1968-F02	2439921.96	1968 Mar 6 1102:57	Kosmos 11K63	-	-	0.316	RVSN	OF	S2E	G	Sat LEO O	AVMDS	AVMDS	Electrical fail
1968-028	2439955.98	1968 Apr 9 1126:25	Kosmos 11K63	-	Ya231-02	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-033	2439965.44	1968 Apr 18 2229:53	Kosmos 11K63	-	-	0.302	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S747	2439972.50	1968 Apr 26	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-038	2439972.70	1968 Apr 26 0442:56	Kosmos 11K63	-	-	0.237	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S760	2440000.50	1968 May 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-043	2440000.80	1968 May 24 0704:50	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-044	2440007.35	1968 May 30 2029:49	Kosmos 11K63	-	Ya231-01	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S761	2440007.50	1968 May 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S748	2440009.50	1968 Jun 2	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S749	2440010.50	1968 Jun 3	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S750	2440011.50	1968 Jun 4	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-S767	2440014.50	1968 Jun 7	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S755	2440014.50	1968 Jun 7	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-S751	2440015.50	1968 Jun 8	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-048	2440019.40	1968 Jun 11 2129:54	Kosmos 11K63	-	-	0.316	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-056	2440042.79	1968 Jul 5 0659:50	Kosmos 11K63	-	-	0.285	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-061	2440056.33	1968 Jul 18 1959:50	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-079	2440120.11	1968 Sep 20 1439:59	Kosmos 11K63	-	Ya231-04	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S758	2440127.50	1968 Sep 28	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-083	2440133.04	1968 Oct 3 1258:59	Kosmos 11K63	-	V295-02	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S762	2440174.50	1968 Nov 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-107	2440194.12	1968 Dec 3 1452:21	Kosmos 11K63	-	V295-03	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S768	2440204.50	1968 Dec 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1968-113	2440204.72	1968 Dec 14 0509:54	Kosmos 11K63	-	-	0.286	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-117	2440210.50	1968 Dec 19 2355	Kosmos 11K63	-	N231-13	0.335	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1968-S759	2440215.50	1968 Dec 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1968-119	2440216.91	1968 Dec 26 0945:02	Kosmos 11K63	-	-	0.283	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S760	2440221.50	1969?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S761	2440221.50	1969?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S762	2440221.50	1969?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S767	2440256.50	1969 Feb 4	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-012	2440260.08	1969 Feb 7 1359	Kosmos 11K63	-	V295-07	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S768	2440264.50	1969 Feb 12	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S769	2440270.50	1969 Feb 18	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-020	2440286.05	1969 Mar 5 1304:55	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-031	2440309.17	1969 Mar 28 1600:08	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-033	2440316.04	1969 Apr 4 1300:04	Kosmos 11K63	-	V295-06	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-047	2440369.04	1969 May 27 1259:59	Kosmos 11K63	-	V295-05	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-049	2440376.04	1969 Jun 3 1257:27	Kosmos 11K63	-	V295-10	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S715	2440417.50	1969 Jul 15	K63D	-	-	0.000	RVSN	TS	-	-	Reentry Test	LukAfan	-	-
1969-F11	2440425.88	1969 Jul 23 0900:00	Kosmos 11K63	-	V295-11	0.200	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMDS	Engine failed
1969-S770	2440426.50	1969 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S771	2440426.50	1969 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S772	2440426.50	1969 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S773	2440426.50	1969 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S774	2440426.50	1969 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S775	2440440.50	1969 Aug 7	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-073	2440456.09	1969 Aug 22 1414:57	Kosmos 11K63	-	Yu295-02	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S802	2440464.50	1969 Sep	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1969-088	2440509.06	1969 Oct 14 1319:53	Kosmos 11K63	-	2I	0.303	RVSN	OS	-	G	Sat LEO O	NK9606-11	-	-
1969-090	2440512.92	1969 Oct 18 1000:03	Kosmos 11K63	-	Yu295-03	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-094	2440519.04	1969 Oct 24 1301:58	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S801	2440523.50	1969 Oct 29	R-12U	-	-	0.000	MVS	MS	-	-	Target	BMLX	-	-
1969-096	2440530.00	1969 Nov 4 1159:59	Kosmos 11K63	-	V295-09	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-102	2440549.96	1969 Nov 24 1100:04	Kosmos 11K63	-	Yu646-24	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S716	2440561.75	1969 Dec 6 0600	K63D	-	-	0.000	RVSN	TS	-	-	Reentry Test	LukAfan	-	-
1969-106	2440567.04	1969 Dec 11 1258:59	Kosmos 11K63	-	Yu646-25	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S776	2440576.50	1969 Dec 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1969-S787	2440576.50	1969 Dec 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1969-110	2440580.92	1969 Dec 25 0959:51	Kosmos 11K63	-	-	0.288	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1969-S777	2440582.50	1969 Dec 27	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-004	2440602.07	1970 Jan 15 1339:59	Kosmos 11K63	-	V295-12	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-005	2440602.96	1970 Jan 16 1059:58	Kosmos 11K63	-	-	0.321	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-006	2440607.35	1970 Jan 20 2020:00	Kosmos 11K63	-	N231-06	0.265	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-S766	2440616.50	1970 Jan 30	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1970-F01	2440617.15	1970 Jan 30 1540:01	Kosmos 11K63	-	V295-13	0.200	RVSN	OF	S2P	G	Sat LEO O	AVMDS	AVMDS	Combustion chamber
1970-014	2440645.23	1970 Feb 27 1724:55	Kosmos 11K63	-	Yu646-27	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-S740	2440645.50	1970 Mar	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-S741	2440662.50	1970 Mar 17	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-020	2440664.11	1970 Mar 18 1439:56	Kosmos 11K63	-	Yu646-28	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-033	2440700.06	1970 Apr 23 1320:00	Kosmos 11K63	-	Yu646-26	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-035	2440701.43	1970 Apr 24 2224:49	Kosmos 11K63	-	-	0.315	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-F03	2440729.03	1970 May 22 1239:55	Kosmos 11K63	-	Yu457-32	0.200	RVSN	OF	S1P	G	Sat LEO O	AVMDS	AVMDS	Engine out T+1:52
1970-043	2440749.90	1970 Jun 12 0930:02	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-044	2440750.71	1970 Jun 13 0459:58	Kosmos 11K63	-	N231-10	0.235	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-051	2440764.82	1970 Jun 27 0739:55	Kosmos 11K63	-	Yu457-34	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-S668	2440798.58	1970 Jul 31 0200	K63D	-	-	0.000	RVSN	TS	-	-	Reentry Test	LukAfan	-	-
1970-057	2440805.62	1970 Aug 7 0259:53	Kosmos 11K63	-	-	0.222	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-059	2440809.33	1970 Aug 10 1959:55	Kosmos 11K63	-	N231-05	0.265	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-063	2440818.12	1970 Aug 19 1459:53	Kosmos 11K63	-	Yu457-36	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-073	2440846.00	1970 Sep 16 1159:55	Kosmos 11K63	-	Yu457-37	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-081	2440868.13	1970 Oct 8 1510:03	Kosmos 11K63	-	64657-132	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-084	2440873.98	1970 Oct 14 1129:58	Kosmos 11K63	-	-	0.303	RVSN	OS	-	G	Sat LEO O	AVMDS	SR12,651	-
1970-S742	2440880.50	1970 Oct 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-S743	2440880.50	1970 Oct 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-S744	2440881.50	1970 Oct 22	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1970-100	2440914.96	1970 Nov 24 1059:56	Kosmos 11K63	-	64657-131	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-112	2440938.90	1970 Dec 18 0939:13	Kosmos 11K63	-	Yu457-29	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1970-S751	2440941.50	1970 Dec 21	R-12U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-002	2440966.00	1971 Jan 14 1200:00	Kosmos 11K63	-	Yu295-01	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-007	2440978.03	1971 Jan 26 1244:33	Kosmos 11K63	-	Yu457-31	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-F02	2441015.84	1971 Mar 5 0815:02	Kosmos 11K63	-	-	0.200	RVSN	OF	S2G	G	Sat LEO O	AVMDS	-	Control system f.
1971-S693	2441055.50	1971 Apr 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-S694	2441055.50	1971 Apr 14	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-S695	2441062.50	1971 Apr 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-S636	2441063.68	1971 Apr 22 0422	K63D	-	-	0.000	RVSN	TF	U	-	Reentry Test	LukAfan	-	-
1971-037	2441065.97	1971 Apr 24 1115:02	Kosmos 11K63	-	Yu457-33	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-044	2441090.93	1971 May 19 1020:00	Kosmos 11K63	-	45747-138	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-047	2441099.00	1971 May 27 1159:55	Kosmos 11K63	-	64657-133	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-S687	2441102.50	1971 Jun	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-S706	2441102.50	1971 Jun	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-S688	2441156.50	1971 Jul 24	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-F08	2441166.96	1971 Aug 3 1100:00	Kosmos 11K63	-	45747-139	0.200	RVSN	OF	S2P	G	Sat LEO O	AVMDS	AVMDS	Engine out T+3:23

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-072	2441190.95	1971 Aug 27 1054:56	Kosmos 11K63	-	64657-134	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-S696	2441209.50	1971 Sep 15	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-079	2441218.94	1971 Sep 24 1030:00	Kosmos 11K63	-	64634-148	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-S689	2441232.50	1971 Oct 8	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1971-090	2441244.03	1971 Oct 19 1240:01	Kosmos 11K63	-	64634-145	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-097	2441272.97	1971 Nov 17 1109:48	Kosmos 11K63	-	29547-144	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-101	2441284.92	1971 Nov 29 1009:56	Kosmos 11K63	-	29524-151	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1971-104	2441287.85	1971 Dec 2 0825:14	Kosmos 11K63	-	-	0.296	RVSN	OS	-	G	Sat LEO O	AVMDS	SR13,695	-
1971-113	2441302.94	1971 Dec 17 1039:58	Kosmos 11K63	-	45747-140	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-004	2441341.97	1972 Jan 25 1115:01	Kosmos 11K63	-	29547-143	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-S462	2441355.75	1972 Feb 8 0559	K63D	-	-	0.000	RVSN	TS	-	-	Reentry Test	LukAfan	-	-
1972-020	2441401.94	1972 Mar 25 1039:59	Kosmos 11K63	-	64657-134	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-028	2441418.96	1972 Apr 11 1104:58	Kosmos 11K63	-	45734-142	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-033	2441429.00	1972 Apr 21 1159:59	Kosmos 11K63	-	45747-137	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-F02	2441432.98	1972 Apr 25 1129:59	Kosmos 11K63	-	64634-146	0.200	RVSN	OF	S2P	G	Sat LEO O	AVMDS	AVMDS	Early shutdown
1972-047	2441498.75	1972 Jun 30 0558:41	Kosmos 11K63	-	-	0.301	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-048	2441498.89	1972 Jun 30 0919:49	Kosmos 11K63	-	29524-153	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-050	2441503.90	1972 Jul 5 0929:58	Kosmos 11K63	-	29524-152	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-054	2441510.75	1972 Jul 12 0559:57	Kosmos 11K63	-	-	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-078	2441595.98	1972 Oct 5 1130:00	Kosmos 11K63	-	64657-135	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-080	2441602.06	1972 Oct 11 1319:58	Kosmos 11K63	-	64634-147	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-084	2441615.94	1972 Oct 25 1039:57	Kosmos 11K63	-	64657-136	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1972-094	2441652.41	1972 Nov 30 2149:57	Kosmos 11K63	-	29524-155	0.287	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-004	2441706.99	1973 Jan 24 1144:50	Kosmos 11K63	-	64653-169	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-020	2441784.99	1973 Apr 12 1149:55	Kosmos 11K63	-	29547-142	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-022	2441791.93	1973 Apr 19 1019:58	Kosmos 11K63	-	-	0.256	RVSN	OS	-	G	Sat LEO O	AVMDS	SR17,493	-
1973-029	2441820.06	1973 May 17 1319:58	Kosmos 11K63	-	45734-143	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-A83	2441826.66	1973 May 24 0350	K63D	-	-	0.000	RVSN	TF	U	-	Reentry Test	LukAfan	-	-
1973-035	2441838.98	1973 Jun 5 1129:47	Kosmos 11K63	-	64634-149	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-S568	2441888.50	1973 Jul 25	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1973-057	2441916.98	1973 Aug 22 1124:55	Kosmos 11K63	-	45734-141	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-075	2441972.08	1973 Oct 16 1400:01	Kosmos 11K63	-	29519-181	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-091	2442007.02	1973 Nov 20 1229:58	Kosmos 11K63	-	29524-154	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-094	2442014.90	1973 Nov 28 0929:58	Kosmos 11K63	-	64653-170	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1973-099	2442029.97	1973 Dec 13 1110:03	Kosmos 11K63	-	45734-144	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1974-010	2442105.96	1974 Feb 27 1104:58	Kosmos 11K63	-	64643-161	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1974-012	2442112.17	1974 Mar 5 1604:55	Kosmos 11K63	-	64643-162	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1974-047	2442225.02	1974 Jun 26 1229:57	Kosmos 11K63	-	29543-163	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1974-S435	2442239.71	1974 Jul 11 0501	K63D	-	-	0.000	RVSN	TS	-	-	Reentry Test	LukAfan	-	-
1974-F04	2442239.96	1974 Jul 11 1059:58	Kosmos 11K63	-	29543-164	0.200	RVSN	OF	S1	G	Sat LEO O	AVMDS	-	Fail T+1:24
1974-058	2442254.00	1974 Jul 25 1206	Kosmos 11K63	-	29543-165	0.200	RVSN	OS	-	G	Sat LEO O	AK15	AVMDS	-
1974-S528	2442257.50	1974 Jul 29	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1974-S529	2442259.50	1974 Jul 31	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1974-S530	2442280.50	1974 Aug 21	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1974-074	2442317.19	1974 Sep 26 1634:56	Kosmos 11K63	-	45753-166	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1974-091	2442372.00	1974 Nov 20 1159:58	Kosmos 11K63	-	45753-168	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1975-S407	2442412.50	1975	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1975-S362	2442412.50	1975	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1975-S363	2442412.50	1975?	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1975-S440	2442443.50	1975 Feb?	R-12	-	-	0.000	MVS	MS	-	-	Test	RML	-	-
1975-003	2442433.96	1975 Jan 21 1104:57	Kosmos 11K63	-	45753-167	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1975-006	2442441.00	1975 Jan 28 1205:01	Kosmos 11K63	-	64643-171	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1975-026	2442511.27	1975 Apr 8 1829:56	Kosmos 11K63	-	64643-172	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1975-058	2442588.00	1975 Jun 24 1204:58	Kosmos 11K63	-	45753-173	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1975-S408	2442610.50	1975 Jul 17	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1975-067	2442610.88	1975 Jul 17 0910:01	Kosmos 11K63	-	64653-175	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1976-S484	2442777.50	1976	R-12U	-	-	0.000	RVSN	MS	-	-	Target	RML	-	-
1976-S485	2442777.50	1976	R-12U	-	-	0.000	RVSN	MS	-	-	Target	RML	-	-
1976-S486	2442777.50	1976	R-12U	-	-	0.000	RVSN	MS	-	-	Target	RML	-	-
1976-S366	2442777.50	1976?	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1976-012	2442814.10	1976 Feb 5 1430:03	Kosmos 11K63	-	64653-174	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1976-044	2442916.96	1976 May 18 1059:57	Kosmos 11K63	-	29519-182	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1976-083	2443008.90	1976 Aug 18 0930:01	Kosmos 11K63	-	64619-184	0.200	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1976-084	2443016.96	1976 Aug 26 1059:57	Kosmos 11K63	-	29519-183	0.193	RVSN	OS	-	G	Sat LEO O	AK15/AVMDS	-	-
1977-S330	2443143.50	1977?	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1977-025	2443238.94	1977 Apr 5 1030	Kosmos 11K63	-	45739-186	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1977-051	2443312.94	1977 Jun 18 1030	Kosmos 11K63	-	64619-185	0.200	RVSN	OS	-	G	Sat LEO O	AVMDS	-	-
1977-S440	2443403.50	1977 Sep 17?	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	Sep17-24
1977-S441	2443403.50	1977 Sep 17?	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	Sep17-24
1977-S442	2443447.50	1977 Nov	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1978-S279	2443508.50	1978	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1978-S331	2443659.50	1978 Jun	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1978-S332	2443659.50	1978 Jun	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1978-S333	2443782.50	1978 Oct 1	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1978-S334	2443784.50	1978 Oct 3	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1979-S303	2443965.50	1979 Apr 2	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1979-S304	2444177.50	1979 Nov	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1979-S305	2444207.50	1979 Dec	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1979-S306	2444207.50	1979 Dec	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1980-S287	2444387.50	1980 May 28?	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	May28-Jun13
1980-S288	2444390.50	1980 Jun?	R-12	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	May28-Jun13
1980-S289	2444403.50	1980 Jun 13?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	May28-Jun13
1980-S290	2444514.50	1980 Oct 2?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	Oct2-10
1980-S291	2444522.50	1980 Oct 10?	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	Oct2-10
1981-S255	2444844.50	1981 Aug 28?	R-12U	-	-	0.000	MVS	MS	-	-	Test	RML	-	Aug17-28
1981-S256	2444938.50	1981 Dec	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-S257	2444938.50	1981 Dec	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1982-S281	2445242.50	1982 Oct	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1984-S209	2445699.50	1984	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1984-S276	2446034.50	1984 Dec	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1984-S277	2446034.50	1984 Dec	R-12U	-	-	0.000	MVS	MS	-	-	Test	BMLX	-	-
1986-S134	2446430.50	1986	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1986-S204	2446430.50	1986	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1986-S205	2446430.50	1986	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1987-S201	2446795.50	1987	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	KY60	-	-
1987-S266	2446795.50	1987	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1987-S267	2446795.50	1987	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1987-S268	2446795.50	1987	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1988-S196	2447160.50	1988	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1988-S197	2447160.50	1988	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1988-S198	2447160.50	1988	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1989-S148	2447526.50	1989	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1989-S149	2447526.50	1989	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1989-S152	2447526.50	1989	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1990-S214	2447891.50	1990	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1990-S215	2447891.50	1990	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1991-S224	2448256.50	1991	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-
1992-S111	2448621.50	1992	K63	-	-	0.000	RVSN	MS	-	-	Reentry Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S80	2436719.50	1959 Jun	R-13	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1959-S229	2436872.50	1959 Nov	R-13	-	-	-	-	-	ZULUV	UNKPL	-	-	-	150?	-	-
1960-S42	2436993.50	1960 Mar	R-13	-	-	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1960-S209	2437146.50	1960 Aug	R-13	-	-	-	-	-	ZULUV	UNKPL	-	-	-	150?	-	-
1961-S284	2437556.70	1961 Sep 14 0445?	R-13	-	-	-	-	-	ZULUV?	BELA?	-	-	-	150?	-	-
1961-S285	2437558.67	1961 Sep 16 0400?	R-13	-	-	-	-	-	ZULUV?	BELA?	-	-	-	150?	-	-
1961-S457	2437591.50	1961 Oct 19	R-13	-	Nuclear Test Demo	-	-	-	ZULUV?	BELA?	-	-	-	150?	-	-
1961-S338	2437592.50	1961 Oct 20	R-13	-	Nuclear Test	-	-	-	ZULUV?	BELA?	-	-	-	150?	-	-
1965-S299	2438900.04	1965 May 19 1300	R-13	-	-	-	-	-	GOLF	BLA	-	-	-	150?	-	-
1965-S306	2438904.92	1965 May 24 1000	R-13	-	-	-	-	-	GOLF	BLA	-	-	-	150?	-	-
1965-S309	2438906.04	1965 May 25 1300	R-13	-	-	-	-	-	GOLF	BLA	-	-	-	150?	-	-
1965-S314	2438907.07	1965 May 26 1336	R-13	-	-	-	-	-	GOLF	BLA	-	-	-	150?	-	-
1965-S332	2438912.06	1965 May 31 1330	R-13	-	-	-	-	-	GOLF	BLA	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S80	2436719.50	1959 Jun	R-13	-	-	0.000	RVSN	MS	-	-	Test	JCM	-	-
1959-S229	2436872.50	1959 Nov	R-13	-	-	0.000	RVSN	MS	-	-	Test	JCM	-	-
1960-S42	2436993.50	1960 Mar	R-13	-	-	0.000	RVSN	MS	-	-	Test	JCM	-	-
1960-S209	2437146.50	1960 Aug	R-13	-	-	0.000	RVSN	MS	-	-	Test	JCM	-	-
1961-S284	2437556.70	1961 Sep 14 0445?	R-13	-	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S285	2437558.67	1961 Sep 16 0400?	R-13	-	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S457	2437591.50	1961 Oct 19	R-13	-	Nuclear Test Demo	0.000	RVSN	MS	-	-	Test	russianspaceweb.com	-	-
1961-S338	2437592.50	1961 Oct 20	R-13	-	Nuclear Test	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1965-S299	2438900.04	1965 May 19 1300	R-13	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S306	2438904.92	1965 May 24 1000	R-13	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S309	2438906.04	1965 May 25 1300	R-13	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S314	2438907.07	1965 May 26 1336	R-13	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S332	2438912.06	1965 May 31 1330	R-13	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S119	2437091.50	1960 Jun 6	R-14	-	LD1-3T	8K65 LKI-1	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	1947	Bratsk
1960-S114	2437110.50	1960 Jun 25	R-14	-	LD1-4T	8K65 LKI-2	MGCh 8F15	-	-	GTsP-4	LC21	-	-	500?	-	(Bratsk)
1960-S210	2437149.50	1960 Aug 3	R-14	-	LD1-6T	8K65 LKI-3	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	3687	Bratsk
1960-S211	2437159.50	1960 Aug 13	R-14	-	LD1-7T	8K65 LKI-4	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S212	2437166.50	1960 Aug 20	R-14	-	LD1-8T	8K65 LKI-5	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S260	2437186.15	1960 Sep 8 1536	R-14	-	LD1-9T	8K65 LKI-6	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S261	2437195.10	1960 Sep 17 1431	R-14	-	LD1-10T	8K65 LKI-7	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S302	2437209.04	1960 Oct 1 1303	R-14	-	LD1-11T	8K65 LKI-8	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S303	2437214.10	1960 Oct 6 1427	R-14	-	LD1-12T	8K65 LKI-9	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	3686	Bratsk
1960-S340	2437258.50	1960 Nov 20	R-14	-	LD1-11L	8K65 LKI-10	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	3669	Bratsk
1960-S341	2437264.50	1960 Nov 26	R-14	-	13L-15T	8K65 LKI-11	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1960-S424	2437292.50	1960 Dec 24	R-14	-	14L-16T	8K65 LKI-12	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	1949	Bratsk
1960-S428	2437298.50	1960 Dec 30	R-14	-	15L-17T	8K65 LKI-13	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S04	2437303.50	1961 Jan 4	R-14	-	16L-18T	8K65 LKI-14	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	1947	Bratsk
1961-S05	2437307.50	1961 Jan 8	R-14	-	17L-19T	8K65 LKI-15	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S06	2437325.50	1961 Jan 26	R-14	-	12L-14T	8K65 LKI-16	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	3680	Bratsk
1961-S07	2437327.50	1961 Jan 28	R-14	-	18L-20T	8K65 LKI-17	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S08	2437330.50	1961 Jan 31	R-14	-	19L-21T	8K65 LKI-18	MGCh 8F15	-	-	GTsP-4	LC21	-	-	675?	3686	Bratsk
1961-S29	2437333.50	1961 Feb 3	R-14	-	20L-1T	8K65 UBP-1 43 RD	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S38	2437338.50	1961 Feb 8	R-14	-	22L-26T	8K65 UBP-2 43 RD	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S30	2437345.50	1961 Feb 15	R-14	-	21L-2T	8K65 LKI-22	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S478	2437389.50	1961 Apr	R-14	-	-	8K65 UBP-3 43 RD	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S166	2437454.50	1961 Jun 4	R-14	-	E22501-09T	8K65 UBP-4 43 RD	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S263	2437561.50	1961 Sep 19	R-14	-	24L	8K65 UBP-5 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1961-S264	2437562.50	1961 Sep 20	R-14	-	23L	8K65 UBP-6 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1961-S337	2437591.50	1961 Oct 19	R-14	-	1LU	8K65 UBP-7 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1961-A221	2437595.50	1961 Oct 23	R-14	-	30L	8K65 UBP-8 29 RD	-	-	-	GTsP-4	-	-	-	0?	-	(Bratsk)
1961-S363	2437603.50	1961 Oct 31	R-14	-	R-14-210	8K65 UBP-9	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S389	2437629.50	1961 Nov 26	R-14	-	R-14-210	8K65 UBP-10	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S390	2437632.50	1961 Nov 29	R-14	-	28L	8K65 UBP-11	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S402	2437634.50	1961 Dec 1	R-14	-	E22501-08T	8K65 UBP-12	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-S405	2437637.50	1961 Dec 4	R-14	-	29L	8K65 UBP-13 68 RB	-	-	-	GTsP-4	LC21	-	-	675?	-	Bratsk
1961-A247	2437641.50	1961 Dec 8	R-14	-	31L	8K65 UBP-14	-	-	-	GTsP-4	LC21	-	-	0?	-	Bratsk
1961-A251	2437659.50	1961 Dec 26	R-14	-	E22503-07T	8K65 UBP-16	-	-	-	GTsP-4	LC21	-	-	0?	-	Bratsk
1962-S11	2437675.50	1962 Jan 11	R-14	-	-	8K65 UBP-17 68 RB	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S10	2437676.50	1962 Jan 12	R-14U	-	-	8K65U LKI-1 NPU	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S36	2437707.15	1962 Feb 11 1533	R-14U	-	-	8K65U LKI-1 ShPU	-	-	-	GTsP-4	ShPU	-	-	675?	3686	Bratsk
1962-S652	2437723.50	1962 Mar	R-14	-	-	8K65 UBP-18 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S653	2437723.50	1962 Mar	R-14	-	-	8K65 UBP-19 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-A49	2437765.50	1962 Apr 11	R-14U	-	-	8K65U LKI-2 ShPU	-	-	-	GTsP-4	-	-	-	0?	-	(Bratsk)
1962-S159	2437819.50	1962 Jun 4	R-14	-	-	8K65 UBP-21 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S168	2437821.50	1962 Jun 6	R-14	-	-	8K65 UBP-22	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S179	2437823.50	1962 Jun 8	R-14	-	-	8K65 UBP-23	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S211	2437845.50	1962 Jul?	R-14	-	-	8K65 UBP-24	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S212	2437845.50	1962 Jul?	R-14	-	-	8K65 UBP-25	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S213	2437845.50	1962 Jul?	R-14	-	-	8K65 UBP-26	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S278	2437881.50	1962 Aug 5	R-14	-	-	8K65 UBP-27 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S643	2437912.50	1962 Sep 5	R-14	-	-	8K65 29 RD	Tyul'pan	-	-	AGINSK	LP1	-	-	675?	-	NZEM
1962-S644	2437912.50	1962 Sep 5	R-14	-	-	8K65 29 RD	Tyul'pan	-	-	AGINSK	LP1	-	-	675?	-	NZEM
1962-S645	2437915.50	1962 Sep 8	R-14	-	-	8K65 29 RD	Tyul'pan	-	-	AGINSK	LP1	-	-	675?	3478	NZEM
1962-S318	2437932.50	1962 Sep 25	R-14	-	-	8K65 UBP-28 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S373	2437937.50	1962 Oct	R-14	-	-	8K65 UBP-29	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S374	2437937.50	1962 Oct	R-14	-	-	8K65 UBP-30	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S375	2437937.50	1962 Oct	R-14	-	-	8K65 UBP-31	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S376	2437966.50	1962 Oct 29	R-14	-	-	8K65 UBP-32 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S445	2437968.50	1962 Nov	R-14	-	-	8K65 UBP-33	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S446	2437968.50	1962 Nov	R-14	-	-	8K65 UBP-34	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S447	2437972.50	1962 Nov 4	R-14	-	-	8K65 UBP-35 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S449	2437983.50	1962 Nov 15	R-14	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S642	2437983.50	1962 Nov 15	R-14	-	-	8K65 68 RB	Climate test	-	-	AGINSK	LP1	-	-	675?	-	NZEM
1962-S448	2437994.50	1962 Nov 26	R-14U	-	-	8K65 UBP-36 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-A265	2437998.50	1962 Dec?	R-14U	-	-	8K65U 68 RB	Climate test	-	-	AGINSK	LP1	-	-	675?	-	(NZEM)
1962-S506	2438007.50	1962 Dec 9	R-14U	-	-	8K65U UBP-37 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1962-S580	2438024.50	1962 Dec 26	R-14U	-	-	8K65U UBP-1 68 RB ShPU	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S04	2438029.50	1963 Jan	R-14U	-	-	8K65U UBP-38	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S643	2438047.50	1963 Jan 18	R-14	-	-	8K65 68 RB	Climate test	-	-	AGINSK	LP1	-	-	675?	-	NZEM
1963-S644	2438061.50	1963 Feb 1	R-14	-	-	8K65 68 RB	Climate test	-	-	AGINSK	LP1	-	-	675?	-	NZEM
1963-S45	2438073.50	1963 Feb 13	R-14U	-	-	8K65U UBP-39	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-A46	2438116.50	1963 Mar 28	R-14U	-	-	8K65U UBP-40	-	-	-	GTsP-4	-	-	-	0?	-	(Bratsk)
1963-S129	2438119.50	1963 Apr	R-14U	-	-	8K65U UBP-41	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S144	2438130.50	1963 Apr 11	R-14U	-	-	8K65U UBP-42	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S309	2438209.50	1963 Jun 29	R-14U	-	-	8K65U UBP-43	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S310	2438209.50	1963 Jun 29	R-14U	-	-	8K65U UBP-44	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S653	2438228.50	1963 Jul 18	R-14U	-	-	8K65U UBP-45 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S413	2438271.50	1963 Aug 30	R-14U	-	-	8K65U UBP-46	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S646	2438324.50	1963 Oct 22	R-14U	-	-	8K65U 35 RD UBP-1	Groza	-	-	MAKHCH	LC2/5	-	-	675?	-	BALKH
1963-A172	2438352.50	1963 Nov 19	R-14U	-	-	8K65U UBP-47	-	-	-	GTsP-4	-	-	-	0?	-	(Bratsk)
1963-S589	2438372.50	1963 Dec 9	R-14U	-	-	8K65U UBP-48	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1963-S618	2438393.50	1963 Dec 30	R-14U	-	-	8K65U UBP-49	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1964-S69	2438427.50	1964 Feb 2	R-14U	-	-	8K65U UBP-50	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1964-A33	2438467.50	1964 Mar 13	R-14U	-	-	8K65U UBP-51	-	-	-	GTsP-4	-	-	-	0?	-	(Bratsk)
1964-S171	2438479.50	1964 Mar 25	R-14U	-	-	8K65U UBP-52 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1964-S276	2438554.50	1964 Jun 8	R-14U	-	-	8K65U UBP-2 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1964-S305	2438568.50	1964 Jun 22	R-14U	-	-	8K65U UBP-54	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1964-046	2438625.89	1964 Aug 18 0915	Kosmos 65S3	-	4000-000-02L	Kosmos-38/40	Strela-1	-	-	NIIP-5	LC41/15	-	-	854	-	-
1964-S464	2438649.50	1964 Sep 11	R-14U	-	-	8K65U UBP-55 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-F12	2438691.81	1964 Oct 23 0730	Kosmos 65S3	-	4000-000-01L	-	Strela-1	-	-	NIIP-5	LC41/15	-	-	250?	-	-
1964-S694	2438747.50	1964 Dec 18	R-14U	-	-	8K65U UBP-3 68 RB	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-S821	2438760.50	1965?	R-14U	-	-	8K65U UBP	-	-	-	NOVOSY	-	-	-	675?	-	Kura
1965-S08	2438760.50	1965 Jan	R-14U	-	-	8K65U UBP-57	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-S30	2438768.50	1965 Jan 8	R-14U	-	-	8K65U UBP-56	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-S46	2438783.50	1965 Jan 23	R-14U	-	-	8K65U UBP-58	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-011	2438812.96	1965 Feb 21 1100	Kosmos 65S3	-	4000-000-03L	Kosmos-54/56	Strela-1	-	-	NIIP-5	LC41/15	-	-	1838	-	-
1965-S182	2438841.50	1965 Mar 22	R-14U	-	-	8K65U UBP-59	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-020	2438834.96	1965 Mar 15 1100	Kosmos 65S3	-	4000-000-04L	Kosmos-61/63	Strela-1	-	-	NIIP-5	LC41/15	-	-	1827	-	-
1965-S808	2438955.50	1965 Jul 14	R-14U	-	-	8K65U UBP-4 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-053	2438957.65	1965 Jul 16 0331	Kosmos 65S3	-	4000-000-05L	Kosmos-71/75	Strela-1	-	-	NIIP-5	LC41/15	-	-	647	-	-
1965-070	2439007.08	1965 Sep 3 1400	Kosmos 65S3	-	4000-000-07LS	Kosmos-80/84	Strela-1	-	-	NIIP-5	LC41/15	-	-	1578	-	-
1965-073	2439021.83	1965 Sep 18 0759	Kosmos 65S3	-	4000-000-08LS	Kosmos-86/90	Strela-1	-	-	NIIP-5	LC41/15	-	-	1700	-	-
1965-S809	2439033.50	1965 Oct	R-14U	-	-	8K65U UBP-5 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1965-112	2439123.02	1965 Dec 28 1230	Kosmos 65S3	-	4000-000-09LP	Kosmos-103	Strela-2	-	-	NIIP-5	LC41/15	-	-	652	-	-
1966-S789	2439213.50	1966 Mar 29	R-14U	-	-	8K65U UBP-60 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S790	2439270.50	1966 May 25	R-14U	-	-	8K65U UBP-61 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S791	2439305.50	1966 Jun 29	R-14U	-	-	8K65U UBP-62 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S807	2439311.50	1966 Jul 5	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S792	2439312.50	1966 Jul 6	R-14U	-	-	8K65U UBP-63 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S793	2439335.50	1966 Jul 29	R-14U	-	-	8K65U UBP-6 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S794	2439419.50	1966 Oct 21	R-14U	-	-	8K65U UBP-64 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-S795	2439445.50	1966 Nov 16	R-14U	-	-	8K65U UBP-7 68 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1966-F11	2439446.04	1966 Nov 16 1300	Kosmos 11K65	-	4000-000-10LP	-	Strela-2 No. 1	-	-	NIIP-5	LC41/15	-	-	500?	-	-
1967-S776	2439528.50	1967 Feb 7	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-S755	2439566.50	1967 Mar 17	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-027	2439573.99	1967 Mar 24 1150	Kosmos 11K65	-	4000-000-06LM	Kosmos-151	Strela-2	-	-	NIIP-5	LC41/15	-	-	656	-	-
1967-045	2439625.96	1967 May 15 1100:00	Kosmos 11K65M	-	N149 -16LM	Kosmos-158	Tsiklon GVM	-	-	NIIP-53	LC132/2	-	-	849	-	-
1967-S756	2439637.50	1967 May 27	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-S757	2439661.50	1967 Jun 20	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-F07	2439667.69	1967 Jun 26 0430	Kosmos 11K65M	-	N149 -20LM	-	Tselina-O GVM	-	-	NIIP-53	LC132/2	-	-	10?	-	-
1967-S758	2439717.50	1967 Aug 15	R-14U	-	-	8K65U UBP 68 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-S759	2439745.50	1967 Sep 12	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-F10	2439760.96	1967 Sep 27 1100	Kosmos 11K65M	-	N149 -15LM	-	Tsiklon GVM	-	-	NIIP-53	LC132/2	-	-	0	-	-
1967-S760	2439762.50	1967 Sep 29	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-S761	2439767.50	1967 Oct 4	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-S489	2439776.01	1967 Oct 12 1215	Kosmos 11K65	-	U149 -13 (13L)	VKZ No. 11	-	-	-	NIIP-5	LC41/15	-	-	4400	-	Kura
1967-S764	2439786.50	1967 Oct 23	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1967-108	2439794.25	1967 Oct 30 1759:59	Kosmos 11K65M	-	N149 -19LM	Kosmos-189	Tselina-O GVM	-	-	NIIP-53	LC132/2	-	-	598	-	-
1967-116	2439818.12	1967 Nov 23 1500:00	Kosmos 11K65M	-	N149 -18LM	Kosmos-192	Tsiklon	-	-	NIIP-53	LC132/2	-	-	762	-	-
1968-006	2439875.42	1968 Jan 19 2200:00	Kosmos 11K65M	-	N149 -21LM	Kosmos-200	Tselina-O	-	-	NIIP-53	LC132/2	-	-	581	-	-
1968-S772	2439887.50	1968 Feb 1	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1968-011	2439907.17	1968 Feb 20 1600:00	Kosmos 11K65M	-	N149 -22LM	Kosmos-203	Sfera	-	-	NIIP-53	LC132/2	-	-	1208	-	-
1968-S219	2439943.98	1968 Mar 28 1130	Kosmos 11K65	-	U149 -14 (14L)	VKZ No. 12	-	-	-	NIIP-5	LC41/15	-	-	4000?	-	Kura
1968-040	2439984.08	1968 May 7 1358:00	Kosmos 11K65M	-	N149 -17LM	Kosmos-220	Tsiklon	-	-	NIIP-53	LC132/2	-	-	850	-	-
1968-S756	2439992.50	1968 May 16	R-14U	-	-	8K65U 68 RB UBP-1	-	-	-	SOZEK	LC3/8	-	-	675?	-	NovZem
1968-S763	2440005.50	1968 May 29	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1968-F05	2440012.28	1968 Jun 4 1845:00	Kosmos 11K65M	-	N149 -23LM	-	Sfera No. 12L	-	-	NIIP-53	LC132/2	-	-	1200?	-	-
1968-S752	2440014.50	1968 Jun 7?	R-14U	-	-	8K65U 35 RD UBP-2	-	-	-	MAKHCH	LC3/7	-	-	675?	-	BALKH
1968-S753	2440014.50	1968 Jun 7?	R-14U	-	-	8K65U 35 RD UBP-3	-	-	-	MAKHCH	LC3/7	-	-	675?	-	BALKH
1968-F06	2440023.02	1968 Jun 15 1225	Kosmos 11K65	-	4000-000-11LP	-	Strela-2 No. 3	-	-	NIIP-5	LC41/15	-	-	200?	-	-
1968-S764	2440027.50	1968 Jun 20	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1968-S765	2440040.50	1968 Jul 3	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1968-S766	2440055.50	1968 Jul 18	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1968-S754	2440068.50	1968 Aug	R-14U	-	-	8K65U 35 RD UBP-4	-	Zapad-1968	-	MAKHCH	LC1/1	-	-	675?	-	BALKH
1968-070	2440095.98	1968 Aug 27 1129	Kosmos 11K65	-	4000-000-12L	Kosmos-236	Strela-2 No. 4	-	-	NIIP-5	LC41/15	-	-	673	-	-
1968-095	2440160.42	1968 Oct 30 2200:00	Kosmos 11K65M	-	V149 -28LM	Kosmos-250	Tselina-O	-	-	NIIP-53	LC132/2	-	-	540	-	-
1968-106	2440191.00	1968 Nov 30 1200:01	Kosmos 11K65M	-	V149 -24LM	Kosmos-256	Sfera	-	-	NIIP-53	LC132/2	-	-	1228	-	-
1969-S778	2440248.50	1969 Jan 27	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S779	2440270.50	1969 Feb 18	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S780	2440270.50	1969 Feb 18	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-021	2440286.23	1969 Mar 5 1725:01	Kosmos 11K65M	-	V149 -26LM	Kosmos-269	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	565	-	-
1969-024	2440298.19	1969 Mar 17 1640:18	Kosmos 11K65M	-	V149 -27LM	Kosmos-272	Sfera	-	-	NIIP-53	LC132/2	-	-	1210	-	-
1969-S781	2440305.50	1969 Mar 25	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S782	2440314.50	1969 Apr 3	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S784	2440384.50	1969 Jun 12	R-14U	-	-	8K65U 68 RB UBP-2	-	-	-	SOZEK	-	-	-	675?	-	Kura
1969-S765	2440384.50	1969 Jun 12	R-14U	-	-	8K65U 45 RD UBP	-	-	-	NOVOSY	-	-	-	675?	-	Kura
1969-S809	2440385.50	1969 Jun 13?	R-14U	?	-	8K65U 45 RD UBP	-	-	-	NOVOSY	-	-	-	675?	-	Kura
1969-S783	2440393.50	1969 Jun 21	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S763	2440402.50	1969 Jul	R-14U	-	-	8K65U 35 RD UBP-5	-	-	-	MAKHCH	LC1/3	-	-	675?	-	BALKH
1969-S764	2440402.50	1969 Jul	R-14U	-	-	8K65U 35 RD UBP-6	-	-	-	MAKHCH	LC1/3	-	-	675?	-	BALKH
1969-S803	2440405.50	1969 Jul 3	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1969-S694	2440420.44	1969 Jul 17 2230	R-14U	-	-	8K65U Aldan Target 1	Aldan	-	-	NIIP-53	LC131/1	-	-	0?	-	BALKH
1969-070	2440447.42	1969 Aug 13 2200:02	Kosmos 11K65M	-	Yu149 -35LM	Kosmos-292	Tsiklon	-	-	NIIP-53	LC132/2	-	-	778	-	-
1969-S756	2440477.35	1969 Sep 12 2030?	R-14U	-	T 14902-15	8K65U Aldan Target 2	Aldan	-	-	NIIP-53	LC131?	-	-	675?	-	BALKH
1969-091	2440516.03	1969 Oct 21 1249:59	Kosmos 11K65M	-	Yu226 -11U	Kosmos-304	Tsiklon	-	-	NIIP-53	LC132/1	-	-	762	-	-
1969-S757	2440529.21	1969 Nov 3 1700	R-14U	-	T 14902-18TF	8K65U Aldan Target 3	Aldan	-	-	NIIP-53	LC131?	-	-	675?	-	BALKH
1969-S758	2440546.25	1969 Nov 20 1800	R-14U	-	T 14902-17TF	8K65U Aldan Target 4	Aldan	-	-	NIIP-53	LC131?	-	-	675?	-	BALKH
1969-103	2440550.20	1969 Nov 24 1649:59	Kosmos 11K65M	-	Yu149 -41LM	Kosmos-312	Sfera	-	-	NIIP-53	LC132/1	-	-	1179	-	-
1969-107	2440575.64	1969 Dec 20 0326:00	Kosmos 11K65M	-	V149 -29LM	Kosmos-315	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	544	-	-
1969-F15	2440583.10	1969 Dec 27 1420:00	Kosmos 11K65M	-	Yu226 -12U	-	Ionosfernaya Stantsiya N	-	-	NIIP-53	LC132/1	-	-	1000?	-	-
1970-S745	2440637.50	1970 Feb 20	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1970-024	2440683.97	1970 Apr 7 1110:01	Kosmos 11K65M	-	V149 -34LM	Kosmos-330	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	541	-	-
1970-028	2440688.21	1970 Apr 11 1700:00	Kosmos 11K65M	-	V149 -36LM	Kosmos-332	Tsiklon	-	-	NIIP-53	LC132/2	-	-	818	-	-
1970-036	2440702.21	1970 Apr 25 1709:16	Kosmos 11K65M	-	V149 -33LM	Kosmos-336/343	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1594	-	-
1970-S730	2440735.46	1970 May 28 2300	R-14U	-	T 14902-06T	8K65U Aldan Target 5	Aldan	-	-	NIIP-53	LC131?	-	-	675?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S731	2440743.88	1970 Jun 6 0900	R-14U	-	T 14901-01T	8K65U Aldan Target 6	Aldan	-	-	NIIP-53	LC131?	-	-	675?	-	BALKH
1970-S746	2440757.50	1970 Jun 20	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1970-F05	2440765.19	1970 Jun 27 1639:59	Kosmos 11K65M	-	47117-102	-	Strela-2M	-	-	NIIP-53	LC132/1	-	-	40?	-	-
1970-064	2440819.10	1970 Aug 20 1430:01	Kosmos 11K65M	-	Yu47121-13	Kosmos-358	Lira	-	-	NIIP-53	LC132/1	-	-	542	-	-
1970-083	2440872.08	1970 Oct 12 1357:00	Kosmos 11K65M	-	47117-103	Kosmos-371	Tsiklon	-	-	NIIP-53	LC132/1	-	-	759	-	-
1970-S747	2440872.50	1970 Oct 13	R-14U	-	-	8K65U UBP 68 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1970-086	2440876.12	1970 Oct 16 1459:59	Kosmos 11K65M	-	53717-104	Kosmos-372	Strela-2M	-	-	NIIP-53	LC132/1	-	-	822	-	-
1970-S762	2440882.50	1970 Oct 23	R-14U	-	-	8K65U UBP 68 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1970-097	2440908.26	1970 Nov 17 1820:01	Kosmos 11K65M	-	65017-107	Kosmos-378	DS-U2-IP No. 1	-	-	NIIP-53	LC132/2	-	-	1742	-	-
1970-102	2440922.67	1970 Dec 2 0400:02	Kosmos 11K65M	-	47117-105	Kosmos-381	Ionosfernaya Stantsiya N	-	-	NIIP-53	LC132/2	-	-	1013	-	-
1970-108	2440933.04	1970 Dec 12 1300:00	Kosmos 11K65M	-	V149-39LM	Kosmos-385	Tsiklon	-	-	NIIP-53	LC132/2	-	-	986	-	-
1970-111	2440936.69	1970 Dec 16 0429:59	Kosmos 11K65M	-	V149-31LM	Kosmos-387	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	538	-	-
1970-F10	2440943.40	1970 Dec 22 2130	Kosmos 11K65M	-	47117-106	-	DS-P1-M No. 1	-	-	NIIP-53	LC132/2	-	-	0	-	-
1971-010	2440992.28	1971 Feb 9 1848:48	Kosmos 11K65M	-	65027-119	Kosmos-394	DS-P1-M No. 2	-	-	NIIP-53	LC132/1	-	-	622	-	-
1971-013	2441000.38	1971 Feb 17 2109:59	Kosmos 11K65M	-	53727-117	Kosmos-395	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	544	-	-
1971-020	2441029.41	1971 Mar 18 2145:00	Kosmos 11K65M	-	65027-118	Kosmos-400	DS-P1-M No. 3	-	-	NIIP-53	LC132/1	-	-	1031	-	-
1971-035	2441064.98	1971 Apr 23 1130:00	Kosmos 11K65M	-	53727-116	Kosmos-407	Strela-2M	-	-	NIIP-53	LC132/1	-	-	844	-	-
1971-038	2441070.11	1971 Apr 28 1435	Kosmos 11K65M	-	53727-115	Kosmos-409	Sfera	-	-	NIIP-53	LC132/1	-	-	1229	-	-
1971-041	2441079.10	1971 May 7 1420:00	Kosmos 11K65M	-	53727-121	Kosmos-411/418	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1594	-	-
1971-046	2441093.54	1971 May 22 0051:31	Kosmos 11K65M	-	53727-120	Kosmos-422	Tsiklon	-	-	NIIP-53	LC132/1	-	-	1029	-	-
1971-S697	2441099.50	1971 May 28	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-050	2441100.66	1971 May 29 0349:58	Kosmos 11K65M	-	V149-30LM	Kosmos-425	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	559	-	-
1971-S692	2441102.50	1971 Jun	R-14U	-	-	8K65U 35 RD UBP-9	Yug	-	-	MAKHCH	LC2/4	-	-	675?	-	BALKH
1971-052	2441107.26	1971 Jun 4 1810:00	Kosmos 11K65M	-	65014-101	Kosmos-426	DS-U2-K No. 1	-	-	NIIP-53	LC132/2	-	-	1999	-	-
1971-S698	2441132.50	1971 Jul	R-14	-	-	8K65 UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-F07	2441155.07	1971 Jul 22 1345:00	Kosmos 11K65M	-	V149-32LM	-	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	540?	-	-
1971-S699	2441178.50	1971 Aug 15	R-14	-	-	8K65 UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-074	2441201.55	1971 Sep 7 0115:01	Kosmos 11K65M	-	Yu149-42	Kosmos-436	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	545	-	-
1971-075	2441204.65	1971 Sep 10 0337:59	Kosmos 11K65M	-	65014-106	Kosmos-437	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	545	-	-
1971-S704	2441211.50	1971 Sep 17	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-S700	2441217.50	1971 Sep 23	R-14U	-	-	8K65U UBP 68 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-S701	2441236.50	1971 Oct 12	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1971-086	2441238.07	1971 Oct 13 1341:00	Kosmos 11K65M	-	47114-104	Kosmos-444/451	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1628	-	-
1971-099	2441276.25	1971 Nov 20 1800:01	Kosmos 11K65M	-	47114-105	Kosmos-457	Sfera	-	-	NIIP-53	LC132/2	-	-	1238	-	-
1971-102	2441285.23	1971 Nov 29 1730:00	Kosmos 11K65M	-	65027-110	Kosmos-459	DS-P1-M No. 5	-	-	NIIP-53	LC132/1	-	-	285	-	-
1971-103	2441286.19	1971 Nov 30 1639:01	Kosmos 11K65M	-	65017-101	Kosmos-460	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	543	-	-
1971-105	2441288.23	1971 Dec 2 1730:01	Kosmos 11K65M	-	47117-109	Kosmos-461	DS-U2-MT No. 1	-	-	NIIP-53	LC132/1	-	-	512	-	-
1971-111	2441300.69	1971 Dec 15 0431:21	Kosmos 11K65M	-	65017-108	Kosmos-465	Tsiklon	-	-	NIIP-53	LC132/2	-	-	1027	-	-
1971-114	2441303.04	1971 Dec 17 1300:01	Kosmos 11K65M	-	65014-102	Kosmos-468	Strela-2M	-	-	NIIP-53	LC132/2	-	-	836	-	-
1971-119	2441313.29	1971 Dec 27 1900:00	Kosmos 11K65M	-	65014-103	Aureole 1	DS-U2-GKA No. 1	-	-	NIIP-53	LC132/2	-	-	2481	-	-
1972-S763	2441362.50	1972 Feb 15	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-009	2441372.83	1972 Feb 25 0752:29	Kosmos 11K65M	-	53727-113	Kosmos-475	Tsiklon	-	-	NIIP-53	LC132/2	-	-	1002	-	-
1972-017	2441399.35	1972 Mar 22 2030:59	Kosmos 11K65M	-	47127-122	Kosmos-479	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	545	-	-
1972-019	2441401.60	1972 Mar 25 0220:00	Kosmos 11K65M	-	65027-123	Kosmos-480	Sfera	-	-	NIIP-53	LC132/2	-	-	1204	-	-
1972-S764	2441437.50	1972 May	R-14U	-	-	8K65U UBP 35 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-035	2441443.98	1972 May 6 1124:51	Kosmos 11K65M	-	65024-110	Kosmos-489	Tsiklon	-	-	NIIP-53	LC132/1	-	-	1003	-	-
1972-S765	2441456.50	1972 May 19	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-S766	2441463.50	1972 May 26	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-043	2441491.89	1972 Jun 23 0924:00	Kosmos 11K65M	-	47127-111	Kosmos-494	Strela-2M	-	-	NIIP-53	LC132/2	-	-	841	-	-
1972-S791	2441497.50	1972 Jun 29	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-S767	2441506.50	1972 Jul 8	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1972-053	2441509.18	1972 Jul 10 1615:00	Kosmos 11K65M	-	65014-107	Kosmos-500	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	545	-	-
1972-057	2441519.26	1972 Jul 20 1810:00	Kosmos 11K65M	-	47127-112	Kosmos-504/511	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1604	-	-
1972-062	2441546.07	1972 Aug 16 1340:01	Kosmos 11K65M	-	Yu149-38	Kosmos-514	Tsiklon GVM	-	-	NIIP-53	LC132/2	-	-	974	-	-
1972-074	2441590.35	1972 Sep 29 2018:59	Kosmos 11K65M	-	Yu47121-11	Kosmos-521	DS-P1-M No. 4	-	-	NIIP-53	LC132/2	-	-	1012	-	-
1972-F06	2441608.33	1972 Oct 17 1959:01	Kosmos 11K65M	-	Yu149-40	-	Strela-2M	-	-	NIIP-53	LC132/1	-	-	800?	-	-
1972-087	2441622.59	1972 Nov 1 0208:00	Kosmos 11K65M	-	Yu149-46	Kosmos-528/535	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1595	-	-
1972-088	2441624.57	1972 Nov 3 0134:00	Kosmos 11K65M	-	Yu47121-1U	Kosmos-536	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	551	-	-
1972-102	2441672.59	1972 Dec 21 0205:00	Kosmos 11K65M	-	Yu149-43	Kosmos-539	Sfera	-	-	NIIP-53	LC132/2	-	-	1383	-	-
1972-104	2441677.46	1972 Dec 25 2305:01	Kosmos 11K65M	-	53724-113	Kosmos-540	Strela-2M	-	-	NIIP-53	LC132/2	-	-	832	-	-
1973-S03	2441682.50	1973	K65M-R	-	-	RGCh	3 BB 15F204	RGCh 15F202P2	-	GTsP-4	LC107	-	-	675?	-	BALKH
1973-S04	2441682.50	1973	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1973-S05	2441682.50	1973	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1973-S06	2441682.50	1973	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1973-003	2441702.65	1973 Jan 20 0336:05	Kosmos 11K65M	-	Yu149-44	Kosmos-544	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	546	-	-
1973-005	2441708.99	1973 Jan 26 1144:45	Kosmos 11K65M	-	Yu149-37	Kosmos-546	Tsiklon GVM	-	-	GTsP-4	LC107/1	-	-	624	-	-
1973-010	2441741.69	1973 Feb 28 0437:00	Kosmos 11K65M	-	Yu149-45	Kosmos-549	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	551	-	-
1973-F03	2441827.89	1973 May 25 0915:34	Kosmos 11K65M	-	65024-109	-	Zaliv	-	-	NIIP-53	LC132/1	-	-	20?	-	-
1973-S569	2441831.50	1973 May 29	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1973-037	2441842.16	1973 Jun 8 1550:00	Kosmos 11K65M	-	53753-210	Kosmos-564/571	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1608	-	-
1973-042	2441853.76	1973 Jun 20 0616:27	Kosmos 11K65M	-	53724-116	Kosmos-574	Zaliv	-	-	NIIP-53	LC132/1	-	-	1016	-	-
1973-E01	2441859.56	1973 Jun 26 0122	Kosmos 11K65M	-	Yu47121-16	-	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	0	-	-
1973-S570	2441882.50	1973 Jul 19	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1973-S07	2441912.16	1973 Aug 17 1545	Vertikal' K65UP	-	1	K65UP No. 1	VZA Fon GVM	-	-	GTsP-4	LC108	-	-	501	-	-
1973-S576	2441912.50	1973 Aug 18	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1973-S571	2441919.50	1973 Aug 25	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1973-060	2441922.92	1973 Aug 28 1008:29	Kosmos 11K65M	-	65033-201	Kosmos-582	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	544	-	-
1973-064	2441933.58	1973 Sep 8 0150:00	Kosmos 11K65M	-	65027-114	Kosmos-585	Geoid	-	-	NIIP-53	LC132/2	-	-	1426	-	-
1973-065	2441939.52	1973 Sep 14 0031:32	Kosmos 11K65M	-	53714-106	Kosmos-586	Zaliv	-	-	NIIP-53	LC132/2	-	-	1048	-	-
1973-069	2441958.41	1973 Oct 2 2146:00	Kosmos 11K65M	-	53724-115	Kosmos-588/595	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1625	-	-
1973-082	2441986.29	1973 Oct 30 1900:00	Kosmos 11K65M	-	53749-158	Interkosmos-10	DS-U2-IK No. 3	-	-	NIIP-53	LC132/2	-	-	1454	-	-
1973-093	2442013.51	1973 Nov 27 0008:01	Kosmos 11K65M	-	53724-114	Kosmos-610	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	547	-	-
1973-098	2442021.13	1973 Dec 4 1500:01	Kosmos 11K65M	-	53753-211	Kosmos-614	Strela-2M	-	-	NIIP-53	LC132/2	-	-	831	-	-
1973-S572	2442034.50	1973 Dec 18	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1973-104	2442035.90	1973 Dec 19 0943:00	Kosmos 11K65M	-	53724-112	Kosmos-617/624	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1626	-	-
1973-107	2442043.19	1973 Dec 26 1630:01	Kosmos 11K65M	-	65024-111	Aureole 2	DS-U2-GKA No. 2	-	-	NIIP-53	LC132/2	-	-	1973	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-109	2442045.67	1973 Dec 29 0412:00	Kosmos 11K65M	-	65033-204	Kosmos-627	Zaliv	-	-	NIIP-53	LC132/2	-	-	1021	-	-
1974-S03	2442047.50	1974	K65M-R	-	-	RGCh	3 BB 15F204	RGCh 15F202P2	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S04	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S05	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S06	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S07	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S08	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S09	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S10	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S11	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S12	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S13	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S14	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S15	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S16	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S17	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S18	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S19	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S20	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S21	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S22	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S23	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S24	2442047.50	1974	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1974-S25	2442058.11	1974 Jan 10 1439:39	Vertikal' K65UP	-	2	K65UP No. 2	VZA Mir-2	-	-	GTsP-4	LC108	-	-	1500?	-	-
1974-001	2442064.92	1974 Jan 17 1007:30	Kosmos 11K65M	-	53753-208	Kosmos-628	Zaliv	-	-	NIIP-53	LC132/2	-	-	1015	-	-
1974-005	2442084.52	1974 Feb 6 0033:59	Kosmos 11K65M	-	65053-209	Kosmos-631	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	548	-	-
1974-S155	2442140.88	1974 Apr 3 0900	Vertikal' K65UP	-	3	K65UP No. 3	VZA Mir-2	-	-	GTsP-4	LC107	-	-	1500?	-	-
1974-024	2442161.09	1974 Apr 23 1414:59	Kosmos 11K65M	-	65033-202	Kosmos-641/648	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1613	-	-
1974-028	2442167.22	1974 Apr 29 1710:00	Kosmos 11K65M	-	Yu47121-15	Kosmos-650	Geoid	-	-	NIIP-53	LC132/2	-	-	1402	-	-
1974-034	2442184.96	1974 May 17 1100	Kosmos 11K65M	-	53749-167	Interkosmos-11	DS-U3-IK No. 4	-	-	GTsP-4	LC107/1	-	-	518	-	-
1974-035	2442188.76	1974 May 21 0615:59	Kosmos 11K65M	-	53719-152	Kosmos-655	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	596	-	-
1974-044	2442217.04	1974 Jun 18 1300	Kosmos 11K65M	-	53714-165	Kosmos-660	Vektor	-	-	NIIP-53	LC132/2	-	-	1970	-	-
1974-045	2442219.88	1974 Jun 21 0903	Kosmos 11K65M	-	65053-205	Kosmos-661	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	546	-	-
1974-048	2442226.15	1974 Jun 27 1539:50	Kosmos 11K65M	-	53749-160	Kosmos-663	Zaliv	-	-	NIIP-53	LC132/1	-	-	1008	-	-
1974-S509	2442246.50	1974 Jul 18	R-14U	-	-	8K65U 35 RD UBP-10	Salvo	-	-	MAKHCH	LC3/7	-	-	675?	-	BALKH
1974-S510	2442246.50	1974 Jul 18	R-14U	-	-	8K65U 35 RD UBP-11	Salvo	-	-	MAKHCH	LC3/8	-	-	675?	-	BALKH
1974-S511	2442246.50	1974 Jul 18	R-14U	-	-	8K65U 35 RD UBP-12	Salvo	-	-	MAKHCH	LC3/9	-	-	675?	-	BALKH
1974-069	2442289.12	1974 Aug 29 1454:59	Kosmos 11K65M	-	53719-154	Kosmos-675	Geoid	-	-	NIIP-53	LC132/2	-	-	1425	-	-
1974-071	2442302.24	1974 Sep 11 1740:23	Kosmos 11K65M	-	53719-151	Kosmos-676	Strela-2M	-	-	NIIP-53	LC132/2	-	-	852	-	-
1974-072	2442310.12	1974 Sep 19 1457	Kosmos 11K65M	-	53753-206	Kosmos-677/684	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1692	-	-
1974-S531	2442322.50	1974 Oct 2	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-S532	2442330.50	1974 Oct 10	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-076	2442331.98	1974 Oct 11 1129:59	Kosmos 11K65M	-	53721-251 (225?)	Kosmos-687	Vektor	-	-	NIIP-53	LC132/2	-	-	700	-	-
1974-079	2442339.44	1974 Oct 18 2236:15	Kosmos 11K65M	-	53753-207	Kosmos-689	Zaliv	-	-	NIIP-53	LC132/2	-	-	1022	-	-
1974-086	2442351.92	1974 Oct 31 1000	Kosmos 11K65M	-	53721-253	Interkosmos-12	DS-U2-IK No. 4	-	-	NIIP-53	LC132/2	-	-	728	-	-
1974-S533	2442363.50	1974 Nov 12	R-14	-	-	8K65 UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-S534	2442380.50	1974 Nov 29	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-S535	2442390.50	1974 Dec 9	R-14U	-	-	8K65U UBP 32 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-S536	2442399.50	1974 Dec 18	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1974-100	2442400.09	1974 Dec 18 1411:59	Kosmos 11K65M	-	53721-256	Kosmos-698	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	560	-	-
1974-105	2442408.00	1974 Dec 26 1159:59	Kosmos 11K65M	-	53731-270	Kosmos-700	Tsiklon-B	-	-	NIIP-53	LC132/1	-	-	1002	-	-
1975-S01	2442412.50	1975	K65M-R	-	-	RGCh	3 BB 15F204	RGCh 15F202P2	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S02	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S03	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S04	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S05	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S06	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S07	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S08	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S09	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S10	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S11	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S12	2442412.50	1975	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1975-S441	2442441.50	1975 Jan 29	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1975-008	2442449.05	1975 Feb 5 1315	Kosmos 11K65M	-	53753-212	Kosmos-707	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	553	-	-
1975-S439	2442449.50	1975 Feb 6	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1975-012	2442455.65	1975 Feb 12 0330	Kosmos 11K65M	-	53749-166	Kosmos-708	Geoid	-	-	NIIP-53	LC132/1	-	-	1412	-	-
1975-016	2442472.08	1975 Feb 28 1401:59	Kosmos 11K65M	-	53749-157	Kosmos-711/718	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1723	-	-
1975-S409	2442471.50	1975 Mar	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1975-S410	2442471.50	1975 Mar	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1975-022	2442499.10	1975 Mar 27 1430	Kosmos 11K65M	-	53721-268	Interkosmos-13	DS-U2-IK No. 5	-	-	NIIP-53	LC132/1	-	-	1688	-	-
1975-028	2442513.83	1975 Apr 11 0757:14	Kosmos 11K65M	-	65033-203	Kosmos-726	Tsiklon-B	-	-	NIIP-53	LC132/1	-	-	999	-	-
1975-033	2442521.83	1975 Apr 19 0758:55	Kosmos 11K65M	-	53731-279	Aryabhata	ISS	-	-	GTsP-4	LC107/2	-	-	624	-	-
1975-034	2442525.38	1975 Apr 22 2110:37	Kosmos 11K65M	-	53731-274	Kosmos-729	Zaliv	-	-	NIIP-53	LC132/1	-	-	1014	-	-
1975-045	2442560.52	1975 May 28 0025:01	Kosmos 11K65M	-	53731-272	Kosmos-732/739	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1705	-	-
1975-F04	2442566.88	1975 Jun 3 0900	Kosmos 11K65M	-	53721-257	-	DS-U3-IK No. 5	-	-	GTsP-4	LC107/2	-	-	20?	-	-
1975-062	2442597.54	1975 Jul 4 0056:07	Kosmos 11K65M	-	53721-259	Kosmos-749	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	559	-	-
1975-S13	2442599.65	1975 Jul 6 0335	Vertikal' K65UP	-	4	K65UP No. 4	VZA Mir-2	-	-	GTsP-4	LC108	-	-	503	-	-
1975-069	2442618.29	1975 Jul 24 1900:01	Kosmos 11K65M	-	53721-254	Kosmos-752	Vektor	-	-	NIIP-53	LC132/1	-	-	521	-	-
1975-S411	2442627.50	1975 Aug 3	R-14U	-	-	8K65U UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1975-074	2442639.06	1975 Aug 14 1329:21	Kosmos 11K65M	-	53731-288	Kosmos-755	Tsiklon-B	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1975-S14	2442657.69	1975 Sep 2 0440	Vertikal' K65UP	-	5	Vertikal'-3	VZA Mir-2	-	-	GTsP-4	LC108	-	-	502	-	-
1975-086	2442672.80	1975 Sep 17 0710	Kosmos 11K65M	-	53746-311	Kosmos-761/768	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1687	-	-
1975-089	2442680.00	1975 Sep 24 1200	Kosmos 11K65M	-	53721-260	Kosmos-770	Geoid	-	-	NIIP-53	LC132/1	-	-	1211	-	-
1975-094	2442686.28	1975 Sep 30 1837:59	Kosmos 11K65M	-	53721-258	Kosmos-773	Strela-2M	-	-	NIIP-53	LC132/1	-	-	816	-	-
1975-S412	2442708.50	1975 Oct 23	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-103	2442720.93	1975 Nov 4 1012:53	Kosmos 11K65M	-	53731-275	Kosmos-778	Tsiklon-B	-	-	NIIP-53	LC132/1	-	-	1013	-	-
1975-109	2442738.22	1975 Nov 21 1711	Kosmos 11K65M	-	53731-271	Kosmos-781	Tselina-OK	-	-	NIIP-53	LC132/1	-	-	914	-	-
1975-112	2442744.51	1975 Nov 28 0010:08	Kosmos 11K65M	-	53721-252	Kosmos-783	Strela-2M	-	-	NIIP-53	LC132/1	-	-	825	-	-
1975-115	2442758.21	1975 Dec 11 1700:01	Kosmos 11K65M	-	53746-308	Interkosmos-14	DS-U2-IK No. 6	-	-	NIIP-53	LC132/1	-	-	1881	-	-
1975-F07	2442766.08	1975 Dec 19 1400	Kosmos 11K65M	-	53721-263	-	Lira	-	-	NIIP-53	LC132/1	-	-	675?	-	-
1976-S08	2442777.50	1976	K65M-R	-	-	RGCh	3 BB 15F204	RGCh 15F202P2	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S09	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S10	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S11	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S12	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S13	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S14	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S15	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S16	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S17	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-S18	2442777.50	1976	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1976-001	2442783.70	1976 Jan 6 0452:02	Kosmos 11K65M	-	53731-269	Kosmos-787	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	553	-	-
1976-005	2442798.21	1976 Jan 20 1707:41	Kosmos 11K65M	-	53749-164	Kosmos-789	Tsiklon-B	-	-	NIIP-53	LC132/1	-	-	1018	-	-
1976-007	2442800.43	1976 Jan 22 2226:01	Kosmos 11K65M	-	53731-285	Kosmos-790	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	563	-	-
1976-008	2442805.94	1976 Jan 28 1039:01	Kosmos 11K65M	-	53731-281	Kosmos-791/798	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1698	-	-
1976-011	2442811.84	1976 Feb 3 0816	Kosmos 11K65M	-	53721-282	Kosmos-800	Zaliv	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1976-014	2442821.04	1976 Feb 12 1300:01	Kosmos 11K65M	-	53731-286	Kosmos-803	Lira	-	-	NIIP-53	LC132/2	-	-	626	-	-
1976-022	2442850.06	1976 Mar 12 1330	Kosmos 11K65M	-	53746-310	Kosmos-807	Vektor	-	-	NIIP-53	LC132/1	-	-	1988	-	-
1976-S19	2442867.88	1976 Mar 30 0900	Vertikal' K65UP	-	6	K65UP No. 6	VZAS Luch	-	-	GTsP-4	LC108	-	-	500?	-	-
1976-031	2442874.68	1976 Apr 6 0414	Kosmos 11K65M	-	53731-280	Kosmos-812	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	547	-	-
1976-037	2442897.06	1976 Apr 28 1330	Kosmos 11K65M	-	53746-301	Kosmos-816	Romb 1	-	-	NIIP-53	LC132/1	-	-	532	-	-
1976-049	2442927.13	1976 May 28 1500:01	Kosmos 11K65M	-	53716-328	Kosmos-822	Vektor	-	-	NIIP-53	LC132/1	-	-	710	-	-
1976-051	2442932.44	1976 Jun 2 2230:15	Kosmos 11K65M	-	53731-283	Kosmos-823	Zaliv	-	-	NIIP-53	LC132/2	-	-	1012	-	-
1976-054	2442945.05	1976 Jun 15 1319:01	Kosmos 11K65M	-	53731-277	Kosmos-825/832	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1691	-	-
1976-056	2442949.17	1976 Jun 19 1600:01	Kosmos 11K65M	-	53731-276	Interkosmos-15	AUOS-Z-T-IK	-	-	NIIP-53	LC132/1	-	-	518	-	-
1976-061	2442958.84	1976 Jun 29 0812	Kosmos 11K65M	-	53731-284	Kosmos-836	Strela-2M	-	-	NIIP-53	LC132/2	-	-	851	-	-
1976-067	2442968.38	1976 Jul 8 2108	Kosmos 11K65M	-	53716-324	Kosmos-839	Lira	-	-	NIIP-53	LC132/1	-	-	2103	-	-
1976-069	2442975.05	1976 Jul 15 1311	Kosmos 11K65M	-	53746-304	Kosmos-841	Strela-2M	-	-	NIIP-53	LC132/1	-	-	836	-	-
1976-070	2442980.93	1976 Jul 21 1020	Kosmos 11K65M	-	53731-266	Kosmos-842	Geoid	-	-	NIIP-53	LC132/1	-	-	1012	-	-
1976-075	2442986.72	1976 Jul 27 0521	Kosmos 11K65M	-	53746-307	Kosmos-845	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	752	-	-
1976-076	2442987.00	1976 Jul 27 1200:02	Kosmos 11K65M	-	53746-316	Interkosmos-16	DS-U3-IK No. 6	-	-	GTsP-4	LC107/2	-	-	519	-	-
1976-078	2442989.34	1976 Jul 29 2002:44	Kosmos 11K65M	-	53716-329	Kosmos-846	Zaliv	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1976-098	2443050.79	1976 Sep 29 0704:01	Kosmos 11K65M	-	53716-333	Kosmos-858	Strela-2M	-	-	NIIP-53	LC132/2	-	-	824	-	-
1976-S304	2443065.95	1976 Oct 14 1050	Vertikal' K65UP	-	7	Vertikal'-4	VZA Fon	-	-	GTsP-4	LC108	-	-	1512	-	-
1976-108	2443081.03	1976 Oct 29 1239:44	Kosmos 11K65M	-	53772-414	Kosmos-864	Parus	-	-	NIIP-53	LC132/2	-	-	1010	-	-
1976-115	2443114.51	1976 Dec 2 0017	Kosmos 11K65M	-	53731-273	Kosmos-870	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	555	-	-
1976-118	2443119.93	1976 Dec 7 1023	Kosmos 11K65M	-	53716-330	Kosmos-871/878	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1690	-	-
1976-120	2443122.33	1976 Dec 9 2000	Kosmos 11K65M	-	53719-153	Kosmos-880	Lira	-	-	NIIP-53	LC132/2	-	-	626	-	-
1976-122	2443128.08	1976 Dec 15 1359:59	Kosmos 11K65M	-	53782-426	Kosmos-883	Tsikada	-	-	NIIP-53	LC132/1	-	-	1013	-	-
1976-124	2443130.00	1976 Dec 17 1200	Kosmos 11K65M	-	53721-255	Kosmos-885	Romb 2	-	-	NIIP-53	LC132/2	-	-	515	-	-
1976-128	2443140.83	1976 Dec 28 0749:56	Kosmos 11K65M	-	65072-415	Kosmos-887	Parus	-	-	NIIP-53	LC132/1	-	-	1019	-	-
1976-S20	2443141.74	1976 Dec 29 0540	Vertikal' K65UP	-	8	K65UP No. 8	VZAS Luch-2	-	-	GTsP-4	LC108	-	-	1500?	-	-
1977-S02	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S03	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S04	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S05	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S06	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S07	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S08	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S09	2443143.50	1977	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S10	2443143.50	1977	K65M-R	-	-	RGCh	3 BB 15F204	RGCh 15F202P2	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S11	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S12	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S13	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S14	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S15	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-S16	2443143.50	1977	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-004	2443164.34	1977 Jan 20 2005	Kosmos 11K65M	-	53719-155	Kosmos-890	Zaliv	-	-	NIIP-53	LC132/1	-	-	1020	-	-
1977-S17	2443169.50	1977 Jan 26	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1977-006	2443177.02	1977 Feb 2 1230	Kosmos 11K65M	-	53746-306	Kosmos-891	Vektor	-	-	NIIP-53	LC132/2	-	-	522	-	-
1977-011	2443189.96	1977 Feb 15 1100	Kosmos 11K65M	-	53721-261	Kosmos-893	GVM DS-U2-IK	-	-	NIIP-53	LC132/2	-	-	1678	-	-
1977-013	2443196.22	1977 Feb 21 1720	Kosmos 11K65M	-	47182-428	Kosmos-894	Parus	-	-	NIIP-53	LC132/1	-	-	1017	-	-
1977-022	2443227.42	1977 Mar 24 2211	Kosmos 11K65M	-	53749-159	Kosmos-899	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	568	-	-
1977-023	2443232.46	1977 Mar 29 2300	Kosmos 11K65M	-	53749-168	Kosmos-900	AUOS-Z-R-O Oval	-	-	NIIP-53	LC132/2	-	-	522	-	-
1977-S476	2443235.50	1977 Apr 2	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	BALKH
1977-031	2443260.65	1977 Apr 27 0330	Kosmos 11K65M	-	53731-287	Kosmos-906	ER763-4	-	-	GTsP-4	LC107/1	-	-	515	-	-
1977-036	2443283.19	1977 May 19 1630:01	Kosmos 11K65M	-	53719-156	Kosmos-909	Lira	-	-	NIIP-53	LC132/2	-	-	2114	-	-
1977-039	2443288.96	1977 May 25 1100	Kosmos 11K65M	-	53749-163	Kosmos-911	Geoid	-	-	NIIP-53	LC132/2	-	-	1010	-	-
1977-042	2443294.44	1977 May 30 2230	Kosmos 11K65M	-	53749-161	Kosmos-913	Romb 3	-	-	NIIP-53	LC132/1	-	-	527	-	-
1977-049	2443311.65	1977 Jun 17 0330	Kosmos 11K65M	-	47182-422	Signe 3	Signe 3	-	-	GTsP-4	LC107/1	-	-	519	-	-
1977-059	2443325.99	1977 Jul 1 1152	Kosmos 11K65M	-	53749-162	Kosmos-923	Strela-2M	-	-	NIIP-53	LC132/1	-	-	819	-	-
1977-060	2443329.43	1977 Jul 4 2220	Kosmos 11K65M	-	53746-303	Kosmos-924	Tselina-OK	-	-	NIIP-53	LC132/2	-	-	551	-	-
1977-062	2443333.23	1977 Jul 8 1730	Kosmos 11K65M	-	53731-262	Kosmos-926	Tsikada	-	-	NIIP-53	LC132/1	-	-	1046	-	-
1977-064	2443337.71	1977 Jul 13 0502	Kosmos 11K65M	-	53716-331	Kosmos-928	Parus	-	-	NIIP-53	LC132/1	-	-	1011	-	-
1977-067	2443343.86	1977 Jul 19 0840	Kosmos 11K65M	-	53721-264	Kosmos-930	Vektor	-	-	NIIP-53	LC132/2	-	-	514	-	-
1977-070	2443346.92	1977 Jul 22 1000	Kosmos 11K65M	-	53731-267	Kosmos-933	Vektor	-	-	NIIP-53	LC132/1	-	-	408	-	-
1977-079	2443380.26	1977 Aug 24 1820	Kosmos 11K65M	-	53716-326	Kosmos-939/946	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1682	-	-
1977-S18	2443385.88	1977 Aug 30 0900	Vertikal' K65UP	-	9	Vertikal'-5	VZAS Luch-2	-	-	GTsP-4	LC108	-	-	500	-	-
1977-087	2443400.33	1977 Sep 13 1959	Kosmos 11K65M	-	65082-436	Kosmos-951	Parus	-	-	NIIP-53	LC132/1	-	-	1018	-	-
1977-096	2443411.19	1977 Sep 24 1630	Kosmos 11K65M	-	53731-278	Interkosmos-17	AUOS-Z-R-IK	-	-	NIIP-53	LC132/1	-	-	515	-	-
1977-101	2443437.92	1977 Oct 21 1005	Kosmos 11K65M	-	53716-325	Kosmos-959	Lira	-	-	NIIP-53	LC132/1	-	-	864	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-103	2443441.73	1977 Oct 25 0525	Kosmos 11K65M	-	53746-309	Kosmos-960	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	552	-	-
1977-S266	2443442.01	1977 Oct 25 1215	Vertikal' K65UP	-	10	Vertikal'-6	VZA 12IK	-	-	GTsP-4	LC108	-	-	1500	-	-
1977-107	2443445.17	1977 Oct 28 1600	Kosmos 11K65M	-	53768-313	Kosmos-962	Zaliv	-	-	NIIP-53	LC132/1	-	-	1011	-	-
1977-109	2443472.10	1977 Nov 24 1430	Kosmos 11K65M	-	53746-302	Kosmos-963	Geoid	-	-	NIIP-53	LC132/1	-	-	1214	-	-
1977-F06	2443476.80	1977 Nov 29 0705	Kosmos 11K65M	-	53721-265	-	Tsikada?	-	-	NIIP-53	LC132/1	-	-	85?	-	-
1977-111	2443485.96	1977 Dec 8 1100	Kosmos 11K65M	-	65068-308	Kosmos-965	Romb 4	-	-	NIIP-53	LC132/2	-	-	520	-	-
1977-116	2443491.16	1977 Dec 13 1553	Kosmos 11K65M	-	53716-332	Kosmos-967	Lira	-	-	NIIP-53	LC132/1	-	-	1028	-	-
1977-119	2443493.68	1977 Dec 16 0425	Kosmos 11K65M	-	53746-305	Kosmos-968	Strela-2M	-	-	NIIP-53	LC132/1	-	-	843	-	-
1977-122	2443501.18	1977 Dec 23 1624	Kosmos 11K65M	-	53716-322	Kosmos-971	Parus	-	-	NIIP-53	LC132/1	-	-	1011	-	-
1977-S19	2443505.12	1977 Dec 27 1455	Vertikal' K65UP	-	11	K65UP No. 11	VZAF-S	-	-	GTsP-4	LC108	-	-	1500?	-	-
1978-S01	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S02	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S03	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S04	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S05	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S06	2443508.50	1978	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S07	2443508.50	1978	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S08	2443508.50	1978	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-S09	2443508.50	1978	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-005	2443519.37	1978 Jan 10 2051	Kosmos 11K65M	-	53716-319	Kosmos-976/983	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1695	-	-
1978-007	2443525.64	1978 Jan 17 0326	Kosmos 11K65M	-	53716-327	Kosmos-985	Parus	-	-	NIIP-53	LC132/1	-	-	1026	-	-
1978-019	2443557.19	1978 Feb 17 1633	Kosmos 11K65M	-	53746-312	Kosmos-990	Strela-2M	-	-	NIIP-53	LC132/2	-	-	815	-	-
1978-022	2443567.78	1978 Feb 28 0643	Kosmos 11K65M	-	53716-323	Kosmos-991	Parus	-	-	NIIP-53	LC132/2	-	-	1012	-	-
1978-028	2443583.16	1978 Mar 15 1557	Kosmos 11K65M	-	53746-315	Kosmos-994	Zaliv	-	-	NIIP-53	LC132/2	-	-	1015	-	-
1978-031	2443595.56	1978 Mar 28 0130	Kosmos 11K65M	-	53746-314	Kosmos-996	Parus	-	-	NIIP-53	LC132/1	-	-	1011	-	-
1978-034	2443599.08	1978 Mar 31 1401	Kosmos 11K65M	-	53768-307	Kosmos-1000	Tsikada	-	-	NIIP-53	LC132/1	-	-	1014	-	-
1978-046	2443640.96	1978 May 12 1100	Kosmos 11K65M	-	53746-318	Kosmos-1006	Vektor	-	-	NIIP-53	LC132/1	-	-	409	-	-
1978-049	2443646.11	1978 May 17 1439	Kosmos 11K65M	-	53798-316	Kosmos-1008	Tselina-OK	-	-	NIIP-53	LC132/1	-	-	550	-	-
1978-053	2443652.21	1978 May 23 1657	Kosmos 11K65M	-	53768-310	Kosmos-1011	Parus	-	-	NIIP-53	LC132/1	-	-	1017	-	-
1978-S12	2443659.36	1978 May 30 2036	Vertikal' K65UP	-	12	K65UP No. 12	VZA	-	-	GTsP-4	LC108	-	-	100?	-	-
1978-056	2443667.42	1978 Jun 7 2200	Kosmos 11K65M	-	53716-321	Kosmos-1013/1020	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1700	-	-
1978-063	2443680.89	1978 Jun 21 0927	Kosmos 11K65M	-	53716-317	Kosmos-1023	Strela-2M	-	-	NIIP-53	LC132/1	-	-	839	-	-
1978-S10	2443689.50	1978 Jul?	K65M-R	-	-	Barkhan-1	6 BB	R-29RL R&D	-	GTsP-4	LC107	-	-	675?	-	-
1978-074	2443716.70	1978 Jul 27 0449	Kosmos 11K65M	-	53716-313	Kosmos-1027	Zaliv	-	-	NIIP-53	LC132/2	-	-	1004	-	-
1978-S13	2443768.27	1978 Sep 16 1835	Vertikal' K65UP	-	13	K65UP No. 13	VZA Fon	-	-	GTsP-4	LC108	-	-	1500?	-	-
1978-S11	2443781.50	1978 Oct	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1978-091	2443785.66	1978 Oct 4 0349	Kosmos 11K65M	-	53782-429	Kosmos-1034/1041	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1701	-	-
1978-099	2443806.29	1978 Oct 24 1900	Kosmos 11K65M	-	65055-106	Interkosmos-18	AUOS-Z Mag-IK	-	-	NIIP-53	LC132/1	-	-	763	-	-
1978-S227	2443816.00	1978 Nov 3 1205	Vertikal' K65UP	-	14	Vertikal'-7	VZAS	-	-	GTsP-4	LC108	-	-	1500	-	-
1978-105	2443829.41	1978 Nov 16 2145	Kosmos 11K65M	-	53755-111	Kosmos-1048	Strela-2M	-	-	NIIP-53	LC132/2	-	-	832	-	-
1978-S335	2443839.50	1978 Nov 27	R-14	-	-	8K65 UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1978-109	2443848.26	1978 Dec 5 1812	Kosmos 11K65M	-	53716-320	Kosmos-1051/1058	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1711	-	-
1978-115	2443858.05	1978 Dec 15 1319	Kosmos 11K65M	-	53782-408	Kosmos-1062	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	548	-	-
1978-119	2443863.36	1978 Dec 20 2043	Kosmos 11K65M	-	47182-425	Kosmos-1064	Parus	-	-	NIIP-53	LC132/1	-	-	963	-	-
1978-120	2443865.42	1978 Dec 22 2200	Kosmos 11K65M	-	65068-305	Kosmos-1065	Romb 5	-	-	GTsP-4	LC107/1	-	-	548	-	-
1978-122	2443869.06	1978 Dec 26 1330	Kosmos 11K65M	-	53782-430	Kosmos-1067	Geoid	-	-	NIIP-53	LC132/2	-	-	1215	-	-
1979-S03	2443873.50	1979	K65M-R	-	-	RGCh	3 BB 15F454	RGCh Pioner-UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S04	2443873.50	1979	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S05	2443873.50	1979	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S06	2443873.50	1979	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S07	2443873.50	1979	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S08	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S09	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S10	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S11	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S12	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S13	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-S14	2443873.50	1979	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-003	2443890.23	1979 Jan 16 1737	Kosmos 11K65M	-	47182-437	Kosmos-1072	Parus	-	-	NIIP-53	LC132/1	-	-	1019	-	-
1979-010	2443912.92	1979 Feb 8 1000	Kosmos 11K65M	-	53782-417	Kosmos-1075	Vektor	-	-	NIIP-53	LC132/2	-	-	515	-	-
1979-020	2443932.21	1979 Feb 27 1700	Kosmos 11K65M	-	47155-107	Interkosmos-19	AUOS-Z Ionozond-IK	-	-	NIIP-53	LC132/2	-	-	989	-	-
1979-024	2443947.62	1979 Mar 15 0258	Kosmos 11K65M	-	47168-312	Kosmos-1081/1088	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1699	-	-
1979-026	2443953.68	1979 Mar 21 0413	Kosmos 11K65M	-	47172-413	Kosmos-1089	Parus	-	-	NIIP-53	LC132/2	-	-	1005	-	-
1979-028	2443970.76	1979 Apr 7 0620	Kosmos 11K65M	-	65082-424	Kosmos-1091	Parus	-	-	NIIP-53	LC132/1	-	-	1013	-	-
1979-030	2443975.41	1979 Apr 11 2151	Kosmos 11K65M	-	53782-423	Kosmos-1092	Tsikada	-	-	NIIP-53	LC132/1	-	-	1010	-	-
1979-046	2444025.25	1979 May 31 1758	Kosmos 11K65M	-	65082-418	Kosmos-1104	Parus	-	-	NIIP-53	LC132/1	-	-	1011	-	-
1979-051	2444031.94	1979 Jun 7 1030	Kosmos 11K65M	-	65055-109	Bhaskara	SEO	-	-	GTsP-4	LC107/1	-	-	550	-	-
1979-060	2444053.34	1979 Jun 28 2009	Kosmos 11K65M	-	53768-304	Kosmos-1110	Strela-2M	-	-	NIIP-53	LC132/1	-	-	814	-	-
1979-063	2444060.85	1979 Jul 6 0820	Kosmos 11K65M	-	65075-124	Kosmos-1112	Romb	-	-	GTsP-4	LC107/1	-	-	541	-	-
1979-065	2444066.15	1979 Jul 11 1541	Kosmos 11K65M	-	47155-104	Kosmos-1114	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	551	-	-
1979-078	2444113.54	1979 Aug 28 0055	Kosmos 11K65M	-	47182-419	Kosmos-1125	Strela-2M	-	-	NIIP-53	LC132/1	-	-	817	-	-
1979-084	2444142.38	1979 Sep 25 2100	Kosmos 11K65M	-	47147-243	Kosmos-1130/1137	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1689	-	-
1979-S16	2444142.64	1979 Sep 26 0320	Vertikal' K65UP	-	15	Vertikal'-8	VZAF	-	-	GTsP-4	LC108	-	-	505	-	-
1979-089	2444158.19	1979 Oct 11 1636	Kosmos 11K65M	-	47172-407	Kosmos-1140	Strela-2M	-	-	NIIP-53	LC132/2	-	-	807	-	-
1979-090	2444163.01	1979 Oct 16 1217	Kosmos 11K65M	-	47172-410	Kosmos-1141	Parus	-	-	NIIP-53	LC132/2	-	-	1010	-	-
1979-S307	2444165.50	1979 Oct 19	R-14	-	-	8K65 UBP 43 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1979-S17	2444171.07	1979 Oct 24 1340	Vertikal' K65UP	-	16	K65UP No. 16	VZAF	-	-	GTsP-4	LC108	-	-	1500?	-	-
1979-S308	2444172.50	1979 Oct 26	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1979-S15	2444177.50	1979 Nov	K65M-R	-	-	Barkhan-2	3 BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1979-096	2444178.84	1979 Nov 1 0805	Kosmos 11K65M	-	53755-105	Interkosmos-20	AUOS-Z ?	-	-	NIIP-53	LC132/2	-	-	517	-	-
1979-100	2444212.88	1979 Dec 5 0900	Kosmos 11K65M	-	47168-309	Kosmos-1146	Taifun-1B	-	-	NIIP-53	LC132/2	-	-	496	-	-
1980-S03	2444238.50	1980	K65M-R	-	-	RGCh	3 BB 15F454	RGCh Pioner-UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-S04	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-S05	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-S06	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-S07	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-S08	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-S09	2444238.50	1980	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-003	2444253.33	1980 Jan 14 1949	Kosmos 11K65M	-	65067-248	Kosmos-1150	Parus	-	-	NIIP-53	LC132/2	-	-	1018	-	-
1980-007	2444264.36	1980 Jan 25 2036	Kosmos 11K65M	-	47167-249	Kosmos-1153	Parus	-	-	NIIP-53	LC132/2	-	-	1020	-	-
1980-012	2444281.48	1980 Feb 11 2332	Kosmos 11K65M	-	53772-402	Kosmos-1156/1163	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1700	-	-
1980-022	2444316.40	1980 Mar 17 2137	Kosmos 11K65M	-	65098-314	Kosmos-1168	Tsikada	-	-	NIIP-53	LC132/1	-	-	1020	-	-
1980-023	2444325.81	1980 Mar 27 0730	Kosmos 11K65M	-	65098-311	Kosmos-1169	Vektor	-	-	NIIP-53	LC132/1	-	-	517	-	-
1980-026	2444332.82	1980 Apr 3 0740	Kosmos 11K65M	-	47198-315	Kosmos-1171	Lira	-	-	NIIP-53	LC132/2	-	-	1011	-	-
1980-S11	2444352.61	1980 Apr 23 0245	Vertikal' K65UP	-	17	K65UP No. 17	VZAS	-	-	GTsP-4	LC108	-	-	1500?	-	-
1980-037	2444374.04	1980 May 14 1300	Kosmos 11K65M	-	53783-456	Kosmos-1179	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	1550	-	-
1980-039	2444379.89	1980 May 20 0921	Kosmos 11K65M	-	47175-116	Kosmos-1181	Parus	-	-	NIIP-53	LC132/2	-	-	1008	-	-
1980-047	2444396.96	1980 Jun 6 1100	Kosmos 11K65M	-	47168-306	Kosmos-1186	Romb	-	-	NIIP-53	LC132/1	-	-	535	-	-
1980-S298	2444407.50	1980 Jun 17	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1980-S299	2444420.50	1980 Jun 30	R-14U	-	-	8K65U UBP	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1980-056	2444421.80	1980 Jul 1 0712	Kosmos 11K65M	-	47182-416	Kosmos-1190	Strela-2M	-	-	NIIP-53	LC132/2	-	-	839	-	-
1980-058	2444429.53	1980 Jul 9 0042	Kosmos 11K65M	-	65072-409	Kosmos-1192/1199	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1685	-	-
1980-S292	2444437.50	1980 Jul 17	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1980-S293	2444451.50	1980 Jul 31	R-14U	-	-	8K65U UBP 29 RD	-	-	-	GTsP-4	-	-	-	675?	-	Bratsk
1980-067	2444451.93	1980 Jul 31 1020	Kosmos 11K65M	-	47175-122	Kosmos-1204	Romb	-	-	GTsP-4	LC107/1	-	-	545	-	-
1980-S12	2444486.31	1980 Sep 3 1920	Vertikal' K65UP	-	18	K65UP No. 18	VZAF	-	-	GTsP-4	LC108	-	-	1500?	-	-
1980-083	2444527.36	1980 Oct 14 2041	Kosmos 11K65M	-	47172-401	Kosmos-1215	Tselina-OM	-	-	NIIP-53	LC132/1	-	-	559	-	-
1980-S10	2444573.50	1980 Dec	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1980-097	2444578.68	1980 Dec 5 0423	Kosmos 11K65M	-	65098-317	Kosmos-1225	Parus	-	-	NIIP-53	LC132/1	-	-	1031	-	-
1980-S222	2444578.58	1980 Dec 5 0200	K65M-RB	-	K65M-RB4	BOR-4	BOR-4S No. 401	-	-	GTsP-4	LC107/1	-	-	198	-	BALKH
1980-099	2444584.37	1980 Dec 10 2053	Kosmos 11K65M	-	65083-464	Kosmos-1226	Tsikada	-	-	NIIP-53	LC132/1	-	-	1175	-	-
1980-102	2444597.45	1980 Dec 23 2248	Kosmos 11K65M	-	47198-318	Kosmos-1228/1235	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1497	-	-
1980-S13	2444597.73	1980 Dec 24 0530	Vertikal' K65UP	-	19	K65UP No. 19	VZAS	-	-	GTsP-4	LC108	-	-	1500?	-	-
1981-S05	2444604.50	1981	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S06	2444604.50	1981	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S07	2444604.50	1981	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S08	2444604.50	1981	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S16	2444604.50	1981	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S09	2444604.50	1981	K65M-R	-	-	RGCh	3 BB 15F454	RGCh Pioner-UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S10	2444604.50	1981	K65M-R	-	-	RGCh	6 BB 15F307	15A30 R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S11	2444604.50	1981	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S12	2444604.50	1981	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S13	2444604.50	1981	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S14	2444604.50	1981	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-S15	2444604.50	1981	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1981-003	2444620.88	1981 Jan 16 0900	Kosmos 11K65M	-	53798-319	Kosmos-1238	Vektor	-	-	NIIP-53	LC132/1	-	-	1955	-	-
1981-006	2444625.85	1981 Jan 21 0829	Kosmos 11K65M	-	65082-427	Kosmos-1241	Lira	-	-	NIIP-53	LC132/1	-	-	1026	-	-
1981-011	2444641.83	1981 Feb 6 0800	Kosmos 11K65M	-	53793-478	Interkosmos-21	AUOS-Z R-P-IK	-	-	NIIP-53	LC132/1	-	-	514	-	-
1981-013	2444648.26	1981 Feb 12 1821	Kosmos 11K65M	-	65098-320	Kosmos-1244	Parus	-	-	NIIP-53	LC132/1	-	-	1031	-	-
1981-022	2444669.98	1981 Mar 6 1131	Kosmos 11K65M	-	53767-247	Kosmos-1250/1257	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1826	-	-
1981-033	2444704.00	1981 Apr 9 1200	Kosmos 11K65M	-	53798-322	Kosmos-1263	Vektor	-	-	NIIP-53	LC132/1	-	-	1968	-	-
1981-041	2444732.06	1981 May 7 1321	Kosmos 11K65M	-	47198-321	Kosmos-1269	Strela-2M	-	-	NIIP-53	LC132/1	-	-	825	-	-
1981-053	2444760.15	1981 Jun 4 1541	Kosmos 11K65M	-	65098-323	Kosmos-1275	Parus	-	-	NIIP-53	LC132/2	-	-	1019	-	-
1981-074	2444822.99	1981 Aug 6 1149	Kosmos 11K65M	-	65055-112	Kosmos-1287/1294	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1676	-	-
1981-077	2444828.74	1981 Aug 12 0546	Kosmos 11K65M	-	47198-324	Kosmos-1295	Parus	-	-	NIIP-53	LC132/2	-	-	1026	-	-
1981-S17	2444844.61	1981 Aug 28 0240	Vertikal' K65UP	-	20	Vertikal'-9	VZAS	-	-	GTsP-4	LC108	-	-	500	-	-
1981-084	2444845.18	1981 Aug 28 1618	Kosmos 11K65M	-	47155-101	Kosmos-1302	Strela-2M	-	-	NIIP-53	LC132/1	-	-	836	-	-
1981-087	2444851.96	1981 Sep 4 1106	Kosmos 11K65M	-	53755-108	Kosmos-1304	Tsikada	-	-	NIIP-53	LC132/1	-	-	980	-	-
1981-091	2444865.65	1981 Sep 18 0334	Kosmos 11K65M	-	47175-113	Kosmos-1308	Parus	-	-	NIIP-53	LC132/1	-	-	1019	-	-
1981-S157	2444866.25	1981 Sep 18 1759:58	Vertikal' K65UP	-	21	Gruziya-60-Spurt	VZAS	-	-	GTsP-4	LC108	-	-	1514	-	-
1981-095	2444870.83	1981 Sep 23 0800	Kosmos 11K65M	-	53719-527	Kosmos-1310	Vektor	-	-	NIIP-53	LC132/2	-	-	519	-	-
1981-097	2444876.38	1981 Sep 28 2100	Kosmos 11K65M	-	53775-114	Kosmos-1311	Romb	-	-	NIIP-53	LC132/2	-	-	516	-	-
1981-115	2444928.85	1981 Nov 20 0830	Kosmos 11K65M	-	47193-468	Bhaskara 2	SEO B	-	-	GTsP-4	LC107/2	-	-	558	-	-
1981-116	2444937.26	1981 Nov 28 1808	Kosmos 11K65M	-	65093-121	Kosmos-1320/1327	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1666	-	-
1981-120	2444955.96	1981 Dec 17 1100	Kosmos 11K65M	-	53775-120	RS-3/8	RS-3	-	-	NIIP-53	LC132/2	-	-	1789	-	-
1981-S187	2444960.28	1981 Dec 21 1837	Vertikal' K65UP	-	22	Vertikal'-10	VZA	-	-	GTsP-4	LC107	-	-	1508	-	-
1982-S09	2444969.50	1982	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S10	2444969.50	1982	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S11	2444969.50	1982	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S12	2444969.50	1982	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S13	2444969.50	1982	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S14	2444969.50	1982	K65M-R	-	-	RGCh	6 BB 15F307	15A30 R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S15	2444969.50	1982	K65M-R	-	-	RGCh	3 BB 15F483	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S16	2444969.50	1982	K65M-R	-	-	RGCh	4-10 BB 15F162/AA79	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S17	2444969.50	1982	K65M-R	-	-	Osnashchenie-3	8 BB 15F143U	RGCh 15B87	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S18	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S19	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S20	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S21	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S22	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S23	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S24	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-S25	2444969.50	1982	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1982-001	2444977.15	1982 Jan 7 1538	Kosmos 11K65M	-	53755-102	Kosmos-1331	Strela-2M	-	-	NIIP-53	LC132/2	-	-	922	-	-
1982-003	2444983.83	1982 Jan 14 0751	Kosmos 11K65M	-	53767-250	Kosmos-1333	Parus	-	-	NIIP-53	LC132/2	-	-	1024	-	-
1982-007	2444998.96	1982 Jan 29 1100	Kosmos 11K65M	-	65075-115	Kosmos-1335	Romb	-	-	NIIP-53	LC132/1	-	-	520	-	-
1982-012	2445018.41	1982 Feb 17 2156	Kosmos 11K65M	-	65067-261	Kosmos-1339	Tsikada	-	-	NIIP-53	LC132/2	-	-	1018	-	-
1982-F01	2445033.20	1982 Mar 4 1641	Kosmos 11K65M	-	53739-530	-	Romb?	-	-	GTsP-4	LC107/1	-	-	20?	-	-
1982-024	2445053.32	1982 Mar 24 1947	Kosmos 11K65M	-	53767-253	Kosmos-1344	Parus	-	-	NIIP-53	LC132/1	-	-	1105	-	-
1982-026	2445059.88	1982 Mar 31 0900	Kosmos 11K65M	-	53747-241	Kosmos-1345	Tselina-OM	-	-	NIIP-53	LC132/2	-	-	546	-	-
1982-030	2445067.51	1982 Apr 8 0015	Kosmos 11K65M	-	65047-242	Kosmos-1349	Parus	-	-	NIIP-53	LC132/2	-	-	1014	-	-
1982-034	2445080.57	1982 Apr 21 0140	Kosmos 11K65M	-	53767-256	Kosmos-1351	Romb	-	-	GTsP-4	LC107/1	-	-	547	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-S300	2445087.50	1982 Apr 28	R-14U	-	-	8K65U UBP/Target	ABM Target	-	-	GTsP-4	-	-	-	600?	-	BALKH
1982-037	2445087.62	1982 Apr 28 0252:00	Kosmos 11K65M	-	47175-125	Kosmos-1354	Strela-2M	-	-	NIIP-53	LC132/1	-	-	845	-	-
1982-040	2445096.25	1982 May 6 1807	Kosmos 11K65M	-	53775-123	Kosmos-1357/1364	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1689	-	-
1982-051	2445121.69	1982 Jun 1 0437	Kosmos 11K65M	-	47167-258	Kosmos-1371	Strela-2M	-	-	NIIP-53	LC132/1	-	-	844	-	-
1982-054	2445124.40	1982 Jun 3 2130	K65M-RB	-	-	Kosmos-1374	BOR-4 No. 404	-	-	GTsP-4	LC107/1	-	-	229	-	-
1982-055	2445127.22	1982 Jun 6 1710	Kosmos 11K65M	-	65067-257	Kosmos-1375	Lira	-	-	NIIP-53	LC132/2	-	-	1020	-	-
1982-061	2445139.00	1982 Jun 18 1158	Kosmos 11K65M	-	53783-460	Kosmos-1380	Parus	-	-	NIIP-53	LC132/2	-	-	724	-	-
1982-066	2445150.41	1982 Jun 29 2145:41	Kosmos 11K65M	-	47183-457	Kosmos-1383	Nadezhda 11F643N No. 514	-	-	NIIP-53	LC132/1	-	-	1031	-	-
1982-S26	2445153.27	1982 Jul 2 1830	Vertikal' K65UP	-	23	K65UP No. 23	VZAF	-	-	GTsP-4	LC108	-	-	1500?	-	-
1982-069	2445157.91	1982 Jul 7 0947	Kosmos 11K65M	-	65093-473	Kosmos-1386	Parus	-	-	NIIP-53	LC132/1	-	-	1013	-	-
1982-073	2445171.77	1982 Jul 21 0631	Kosmos 11K65M	-	65055-103	Kosmos-1388/1395	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1716	-	-
1982-076	2445180.32	1982 Jul 29 1940	Kosmos 11K65M	-	53793-472	Kosmos-1397	Romb	-	-	GTsP-4	LC107/1	-	-	540	-	-
1982-F05	2445212.33	1982 Aug 30 1955	Kosmos 11K65M	-	65047-236	-	Strela-2M	-	-	NIIP-53	LC132/2	-	-	800?	-	-
1982-102	2445261.75	1982 Oct 19 0558	Kosmos 11K65M	-	53734-137	Kosmos-1417	Parus	-	-	NIIP-53	LC132/1	-	-	1012	-	-
1982-104	2445264.08	1982 Oct 21 1400	Kosmos 11K65M	-	47193-471	Kosmos-1418	Taifun-1B	-	-	GTsP-4	LC107/1	-	-	410	-	-
1982-109	2445284.76	1982 Nov 11 0614	Kosmos 11K65M	-	47167-252	Kosmos-1420	Strela-2M	-	-	NIIP-53	LC132/1	-	-	817	-	-
1982-F07	2445297.96	1982 Nov 24 1100	Kosmos 11K65M	-	47183-465	-	Strela-1M	-	-	NIIP-53	LC132/1	-	-	40?	-	-
1982-S27	2445321.04	1982 Dec 17 1303	Vertikal' K65UP	-	24	K65UP No. 24	VZAF	-	-	GTsP-4	LC108	-	-	1500?	-	-
1982-121	2445333.00	1982 Dec 29 1200:02	Kosmos 11K65M	-	53783-454	Kosmos-1427	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	498	-	-
1983-S03	2445334.50	1983	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S04	2445334.50	1983	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S05	2445334.50	1983	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S06	2445334.50	1983	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S07	2445334.50	1983	K65M-R	-	-	Barkhan-3	3 BB	R-29RKU/R-29RM R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S08	2445334.50	1983	K65M-R	-	-	RGCh	6 BB 15F307	15A30 R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S09	2445334.50	1983	K65M-R	-	-	RGCh	3 BB 15F483	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S10	2445334.50	1983	K65M-R	-	-	RGCh	4-10 BB 15F162/AA79	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S11	2445334.50	1983	K65M-R	-	-	RGCh	6 BB 15F358	RGCh 15F357	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S12	2445334.50	1983	K65M-R	-	-	Osnashchenie-3	8 BB 15F143U	RGCh 15B87	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S13	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S14	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S15	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S16	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S17	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-S18	2445334.50	1983	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1983-001	2445347.08	1983 Jan 12 1402	Kosmos 11K65M	-	65093-479	Kosmos-1428	Parus	-	-	NIIP-53	LC132/2	-	-	1008	-	-
1983-002	2445353.60	1983 Jan 19 0225	Kosmos 11K65M	-	53793-481	Kosmos-1429/1436	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1707	-	-
1983-F01	2445360.00	1983 Jan 25 1200	Kosmos 11K65M	-	47193-480	-	Romb	-	-	NIIP-53	LC132/2	-	-	60?	-	-
1983-017	2445409.44	1983 Mar 15 2230	K65M-RB	-	-	Kosmos-1445	BOR-4 No. 403	-	-	GTsP-4	LC107/1	-	-	224	-	-
1983-021	2445418.37	1983 Mar 24 2055:50	Kosmos 11K65M	-	53739-548	Kosmos-1447	Nadezhda 11F643N No. 530	-	-	NIIP-53	LC132/2	-	-	1016	-	-
1983-023	2445423.55	1983 Mar 30 0110	Kosmos 11K65M	-	65019-522	Kosmos-1448	Parus	-	-	NIIP-53	LC132/1	-	-	1009	-	-
1983-027	2445431.00	1983 Apr 6 1200	Kosmos 11K65M	-	53719-512	Kosmos-1450	Vektor	-	-	NIIP-53	LC132/2	-	-	515	-	-
1983-031	2445437.26	1983 Apr 12 1820	Kosmos 11K65M	-	65019-519	Kosmos-1452	Strela-2M	-	-	NIIP-53	LC132/2	-	-	841	-	-
1983-034	2445444.00	1983 Apr 19 1200	Kosmos 11K65M	-	47119-520	Kosmos-1453	Romb	-	-	NIIP-53	LC132/2	-	-	529	-	-
1983-042	2445460.62	1983 May 6 0300	Kosmos 11K65M	-	65019-513	Kosmos-1459	Parus	-	-	NIIP-53	LC132/2	-	-	1024	-	-
1983-046	2445474.00	1983 May 19 1200:00	Kosmos 11K65M	-	47119-511	Kosmos-1463	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	1551	-	-
1983-048	2445478.62	1983 May 24 0259	Kosmos 11K65M	-	47139-541	Kosmos-1464	Parus	-	-	NIIP-53	LC132/1	-	-	1012	-	-
1983-049	2445480.71	1983 May 26 0500	Kosmos 11K65M	-	65083-458	Kosmos-1465	Romb	-	-	GTsP-4	LC107/1	-	-	543	-	-
1983-069	2445521.52	1983 Jul 6 0031:00	Kosmos 11K65M	-	47183-459	Kosmos-1473/1480	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1675	-	-
1983-079	2445550.03	1983 Aug 3 1240	Kosmos 11K65M	-	53783-463	Kosmos-1486	Strela-2M	-	-	NIIP-53	LC132/2	-	-	843	-	-
1983-091	2445577.77	1983 Aug 31 0630	Kosmos 11K65M	-	47139-547	Kosmos-1494	Romb	-	-	GTsP-4	LC107/1	-	-	551	-	-
1983-101	2445607.96	1983 Sep 30 1100	Kosmos 11K65M	-	65093-482	Kosmos-1501	Romb	-	-	NIIP-53	LC132/1	-	-	531	-	-
1983-102	2445613.00	1983 Oct 5 1200	Kosmos 11K65M	-	65039-540	Kosmos-1502	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	414	-	-
1983-103	2445619.51	1983 Oct 12 0020	Kosmos 11K65M	-	65039-543	Kosmos-1503	Strela-2M	-	-	NIIP-53	LC132/1	-	-	813	-	-
1983-S19	2445627.68	1983 Oct 20 0425	Vertikal' K65UP	-	25	Vertikal'-11	K65UP No. 25	VZAF 54IK No. 25?	-	GTsP-4	LC108	-	-	500	-	-
1983-108	2445634.22	1983 Oct 26 1720	Kosmos 11K65M	-	47122-331	Kosmos-1506	Tsikada	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1983-111	2445650.02	1983 Nov 11 1230:00	Kosmos 11K65M	-	65093-470	Kosmos-1508	Vektor	-	-	NIIP-53	LC132/2	-	-	1964	-	-
1983-120	2445676.76	1983 Dec 8 0613	Kosmos 11K65M	-	65019-528	Kosmos-1513	Parus	-	-	NIIP-53	LC132/2	-	-	1018	-	-
1983-125	2445695.92	1983 Dec 27 1000	K65M-RB	-	-	Kosmos-1517	BOR-4 No. 405	-	-	GTsP-4	LC107	-	-	222	-	-
1984-S05	2445699.50	1984	K65M-R	-	-	Dzho 2	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S06	2445699.50	1984?	K65M-R	-	-	Barkhan-1	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S07	2445699.50	1984?	K65M-R	-	-	Barkhan-1	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S08	2445699.50	1984	K65M-R	-	-	Oval (VMF RV)	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S09	2445699.50	1984	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S10	2445699.50	1984	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S11	2445699.50	1984	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S12	2445699.50	1984	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S13	2445699.50	1984	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S14	2445699.50	1984	K65M-R	-	-	Osnashchenie-8	15F178 Prototype	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S15	2445699.50	1984	K65M-R	-	-	RGCh	3 BB 15F483	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S16	2445699.50	1984	K65M-R	-	-	RGCh	4-10 BB 15F162/AA79	15A16/15A18 R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S17	2445699.50	1984	K65M-R	-	-	RGCh	6 BB 15F358	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S18	2445699.50	1984	K65M-R	-	-	Osnashchenie-3	8 BB 15F143U	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S19	2445699.50	1984	K65M-R	-	-	Osnashchenie	1 BB 15F176	MGCh 15F175	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S20	2445699.50	1984	K65M-R	-	-	Osnashchenie-2	8 BB 15F143U	RGCh 15F173	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S21	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S22	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S23	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S24	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S25	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S26	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S27	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-S28	2445699.50	1984	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-001	2445705.34	1984 Jan 5 2009	Kosmos 11K65M	-	47119-529	Kosmos-1522/1529	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1683	-	-
1984-003	2445711.26	1984 Jan 11 1808	Kosmos 11K65M	-	65039-546	Kosmos-1531	Parus	-	-	NIIP-53	LC132/2	-	-	1013	-	-
1984-007	2445726.00	1984 Jan 26 1200	Kosmos 11K65M	-	53793-469	Kosmos-1534	Vektor	-	-	NIIP-53	LC132/2	-	-	520	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-010	2445733.23	1984 Feb 2 1738	Kosmos 11K65M	-	47139-532	Kosmos-1535	Parus	-	-	NIIP-53	LC132/1	-	-	1019	-	-
1984-019	2445752.15	1984 Feb 21 1536	Kosmos 11K65M	-	65039-537	Kosmos-1538	Strela-2M	-	-	NIIP-53	LC132/1	-	-	815	-	-
1984-S29	2445759.50	1984 Mar?	K65M-R	-	-	Barkhan-3	3 BB	R-29R R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1984-043	2445831.76	1984 May 11 0619	Kosmos 11K65M	-	53739-533	Kosmos-1550	Parus	-	-	NIIP-53	LC132/2	-	-	1014	-	-
1984-046	2445838.11	1984 May 17 1443:26	Kosmos 11K65M	-	47139-538	Kosmos-1553	Tsikada	-	-	NIIP-53	LC132/1	-	-	1012	-	-
1984-052	2445849.41	1984 May 28 2152:00	Kosmos 11K65M	-	65039-531	Kosmos-1559/1566	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1683	-	-
1984-056	2445859.98	1984 Jun 8 1128	Kosmos 11K65M	-	53739-542	Kosmos-1570	Strela-2M	-	-	NIIP-53	LC132/1	-	-	836	-	-
1984-062	2445873.32	1984 Jun 21 1940:03	Kosmos 11K65M	-	53719-521	Kosmos-1574	Nadezhda 11F643N No. 531	-	-	NIIP-53	LC132/2	-	-	1010	-	-
1984-067	2445878.71	1984 Jun 27 0459	Kosmos 11K65M	-	65039-549	Kosmos-1577	Parus	-	-	NIIP-53	LC132/2	-	-	1018	-	-
1984-068	2445880.05	1984 Jun 28 1310:00	Kosmos 11K65M	-	47134-133	Kosmos-1578	Taifun-1B	-	-	GTsP-4	LC107/1	-	-	1642	-	-
1984-S99	2445887.35	1984 Jul 5 2020	K65M-RB	-	-	BOR-5 No. 501	-	-	-	GTsP-4	LC107/1	-	-	210	-	-
1984-100	2445957.16	1984 Sep 13 1554:08	Kosmos 11K65M	-	53739-539	Kosmos-1598	Parus	-	-	NIIP-53	LC132/1	-	-	1021	-	-
1984-104	2445970.90	1984 Sep 27 0930:00	Kosmos 11K65M	-	53796-180	Kosmos-1601	Romb	-	-	NIIP-53	LC132/2	-	-	525	-	-
1984-109	2445985.11	1984 Oct 11 1443	Kosmos 11K65M	-	53734-125	Kosmos-1605	Parus	-	-	NIIP-53	LC132/2	-	-	1021	-	-
1984-118	2446019.78	1984 Nov 15 0640	Kosmos 11K65M	-	47139-124	Kosmos-1610	Parus	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1984-126	2446053.66	1984 Dec 19 0355	K65M-RB	-	-	Kosmos-1614	BOR-4 No. 406	-	-	GTsP-4	LC107/1	-	-	223	-	-
1984-127	2446055.04	1984 Dec 20 1300:00	Kosmos 11K65M	-	47134-127	Kosmos-1615	Taifun-1B	-	-	NIIP-53	LC132/2	-	-	507	-	-
1985-S01	2446065.50	1985	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S02	2446065.50	1985	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S03	2446065.50	1985	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S04	2446065.50	1985	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S05	2446065.50	1985	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S06	2446065.50	1985	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S07	2446065.50	1985	K65M-R	-	-	Osnashchenie-8	15F178 Prototype	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S08	2446065.50	1985	K65M-R	-	-	RGCh 15F357	6 BB 15F358	15A35S R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S09	2446065.50	1985	K65M-R	-	-	Osnashchenie-3	8 BB 15F1437U	RGCh 15B87 (15A14 R&D)	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S10	2446065.50	1985	K65M-R	-	-	Osnashchenie	1 BB 15F176	MGCh 15F175	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S11	2446065.50	1985	K65M-R	-	-	Osnashchenie-2	10 BB 15F174	RGCh 15F173	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S12	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S13	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S14	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S15	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S16	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-S17	2446065.50	1985	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1985-006	2446083.24	1985 Jan 17 1746:00	Kosmos 11K65M	-	65034-138	Kosmos-1624	Strela-2M	-	-	NIIP-53	LC132/1	-	-	840	-	-
1985-011	2446098.32	1985 Feb 1 1936:26	Kosmos 11K65M	-	47144-445	Kosmos-1627	Parus	-	-	NIIP-53	LC132/2	-	-	1022	-	-
1985-018	2446124.04	1985 Feb 27 1256:00	Kosmos 11K65M	-	47134-139	Kosmos-1631	Vektor	-	-	NIIP-53	LC132/1	-	-	521	-	-
1985-022	2446138.55	1985 Mar 14 0109	Kosmos 11K65M	-	53744-146	Kosmos-1634	Parus	-	-	NIIP-53	LC132/2	-	-	1014	-	-
1985-023	2446145.51	1985 Mar 21 0008	Kosmos 11K65M	-	53734-134	Kosmos-1635/1642	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1715	-	-
1985-S69	2446172.44	1985 Apr 16 2230	K65M-RB	-	-	BOR-5 No. 502	-	-	-	GTsP-4	LC107	-	-	210	-	-
1985-041	2446215.55	1985 May 30 0114:50	Kosmos 11K65M	-	47144-148	Kosmos-1655	Tsikada	-	-	NIIP-53	LC132/1	-	-	1021	-	-
1985-050	2446235.98	1985 Jun 19 1130:00	Kosmos 11K65M	-	65044-147	Kosmos-1662	Romb	-	-	NIIP-53	LC132/2	-	-	528	-	-
1985-079	2446312.80	1985 Sep 4 0705	Kosmos 11K65M	-	65011-241	Kosmos-1680	Strela-2M	-	-	NIIP-53	LC132/1	-	-	838	-	-
1985-089	2446340.88	1985 Oct 2 0900	Kosmos 11K65M	-	65044-153	Kosmos-1688	Romb	-	-	GTsP-4	LC107/1	-	-	550	-	-
1985-F04	2446362.23	1985 Oct 23 1724	Kosmos 11K65M	-	65034-135	-	Parus	-	-	NIIP-53	LC133/3	-	-	80?	-	-
1985-110	2446398.05	1985 Nov 28 1312:41	Kosmos 11K65M	-	47122-346	Kosmos-1704	Parus	-	-	NIIP-53	LC133/3	-	-	1011	-	-
1985-116	2446418.87	1985 Dec 19 0846:55	Kosmos 11K65M	-	65022-348	Kosmos-1709	Parus	-	-	NIIP-53	LC132/1	-	-	1015	-	-
1986-S01	2446430.50	1986	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S02	2446430.50	1986	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S03	2446430.50	1986	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S04	2446430.50	1986	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S05	2446430.50	1986	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S06	2446430.50	1986	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S07	2446430.50	1986	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S08	2446430.50	1986	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S09	2446430.50	1986	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-S10	2446430.50	1986	K65M-R	-	-	Osnashchenie-8	15F178 Prototype	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-002	2446439.62	1986 Jan 9 0248:00	Kosmos 11K65M	-	47122-337	Kosmos-1716/1723	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1698	-	-
1986-005	2446446.98	1986 Jan 16 1138:19	Kosmos 11K65M	-	53744-152	Kosmos-1725	Parus	-	-	NIIP-53	LC132/1	-	-	1006	-	-
1986-008	2446454.29	1986 Jan 23 1852:58	Kosmos 11K65M	-	47122-334	Kosmos-1727	Tsikada	-	-	NIIP-53	LC132/1	-	-	1018	-	-
1986-030	2446538.38	1986 Apr 17 2102:00	Kosmos 11K65M	-	53726-198	Kosmos-1741	Strela-2M	-	-	NIIP-53	LC132/1	-	-	847	-	-
1986-037	2446574.04	1986 May 23 1254:22	Kosmos 11K65M	-	53772-362	Kosmos-1745	Parus	-	-	NIIP-53	LC132/1	-	-	1013	-	-
1986-042	2446587.66	1986 Jun 6 0357:00	Kosmos 11K65M	-	47172-364	Kosmos-1748/1755	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1685	-	-
1986-047	2446600.34	1986 Jun 18 2003:49	Kosmos 11K65M	-	53722-341	Kosmos-1759	Parus	-	-	NIIP-53	LC132/1	-	-	1034	-	-
1986-052	2446627.68	1986 Jul 16 0421:00	Kosmos 11K65M	-	53722-365	Kosmos-1763	Strela-2M	-	-	NIIP-53	LC133/3	-	-	837	-	-
1986-067	2446676.88	1986 Sep 3 0900:00	Kosmos 11K65M	-	65022-342	Kosmos-1776	Romb	-	-	NIIP-53	LC132/1	-	-	523	-	-
1986-070	2446683.57	1986 Sep 10 0145:00	Kosmos 11K65M	-	47196-164	Kosmos-1777	Strela-2M	-	-	NIIP-53	LC133/3	-	-	832	-	-
1986-S11	2446713.50	1986 Oct 10	K65M-R	-	-	Molodets	10 BB 15F14/AA102	RGCh	-	GTsP-4	LC107	-	-	675?	-	BALKH
1986-083	2446731.03	1986 Oct 27 1240:00	Kosmos 11K65M	-	53748-411	Kosmos-1788	Vektor	-	-	NIIP-53	LC133/3	-	-	522	-	-
1986-086	2446747.76	1986 Nov 13 0610:25	Kosmos 11K65M	-	53748-414	Kosmos-1791	Tsikada	-	-	NIIP-53	LC132/2	-	-	1015	-	-
1986-092	2446755.58	1986 Nov 21 0200:00	Kosmos 11K65M	-	53796-168	Kosmos-1794/1801	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1685	-	-
1986-093	2446759.41	1986 Nov 24 2143:13	Kosmos 11K65M	-	47122-349	Kosmos-1802	Parus	-	-	NIIP-53	LC132/2	-	-	1026	-	-
1986-100	2446782.21	1986 Dec 17 1702:32	Kosmos 11K65M	-	53772-353	Kosmos-1808	Parus	-	-	NIIP-53	LC132/1	-	-	1022	-	-
1986-S118	2446789.54	1986 Dec 25 0100	K65M-RB	-	-	BOR-5 No. 503	-	-	-	GTsP-4	LC107/2	-	-	210	-	-
1987-S01	2446795.50	1987	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S02	2446795.50	1987	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S03	2446795.50	1987	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S04	2446795.50	1987	K65M-R	-	-	Barkhan-4	3 BB 3G95?	R-29RKU-01/R-29RMU R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S05	2446795.50	1987	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S06	2446795.50	1987	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S07	2446795.50	1987	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S08	2446795.50	1987	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S09	2446795.50	1987	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S10	2446795.50	1987	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S11	2446795.50	1987	K65M-R	-	-	Osnashchenie-8	15F178 Prototype	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S12	2446795.50	1987	K65M-R	-	-	Molodets	10 BB 15F14/AA102	-	-	GTsP-4	LC107	-	-	675?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S13	2446795.50	1987	K65M-R	-	-	Osnashchenie	1 BB 15F176	MGCh 15F175	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S14	2446795.50	1987	K65M-R	-	-	Osnashchenie-2	10 BB 15F174	RGCh 15F173	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S15	2446795.50	1987	K65M-R	-	-	Osnashchenie-5	1 BB 15F172	MGCh 15F171	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S16	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S17	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S18	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S19	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S20	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S21	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S22	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S23	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S24	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S25	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S26	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-S27	2446795.50	1987	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1987-006	2446816.88	1987 Jan 21 0910:00	Kosmos 11K65M	-	47172-361	Kosmos-1814	Strela-2M	-	-	NIIP-53	LC132/2	-	-	810	-	-
1987-007	2446817.79	1987 Jan 22 0700	Kosmos 11K65M	-	65048-415	Kosmos-1815	Romb	-	-	GTsP-4	LC107/1	-	-	553	-	-
1987-009	2446824.76	1987 Jan 29 0614:57	Kosmos 11K65M	-	65096-172	Kosmos-1816	Tsikada	-	-	NIIP-53	LC132/2	-	-	1013	-	-
1987-017	2446845.08	1987 Feb 18 1353:20	Kosmos 11K65M	-	65072-354	Kosmos-1821	Parus	-	-	NIIP-53	LC132/2	-	-	1018	-	-
1987-049	2446956.11	1987 Jun 9 1445:00	Kosmos 11K65M	-	47196-176	Kosmos-1850	Strela-2M	-	-	NIIP-53	LC132/1	-	-	839	-	-
1987-051	2446963.24	1987 Jun 16 1751:00	Kosmos 11K65M	-	65026-184	Kosmos-1852/1859	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1689	-	-
1987-054	2446969.82	1987 Jun 23 0737:58	Kosmos 11K65M	-	65026-202	Kosmos-1861	Tsikada/RS-10/RS-11	-	-	NIIP-53	LC132/1	-	-	1030	-	-
1987-057	2446983.42	1987 Jul 6 2159:27	Kosmos 11K65M	-	53796-177	Kosmos-1864	Parus	-	-	NIIP-53	LC132/2	-	-	1008	-	-
1987-061	2446991.08	1987 Jul 14 1400:01	Kosmos 11K65M	-	47196-161	Kosmos-1868	Taifun-1B	-	-	NIIP-53	LC132/2	-	-	709	-	-
1987-S131	2447034.39	1987 Aug 26 2120	K65M-RB	-	-	BOR-5 No. 504	-	-	-	GTsP-4	LC107	-	-	210	-	-
1987-087	2447083.02	1987 Oct 14 1235:33	Kosmos 11K65M	-	53726-186	Kosmos-1891	Parus	-	-	NIIP-53	LC133/3	-	-	1029	-	-
1987-098	2447131.09	1987 Dec 1 1415:45	Kosmos 11K65M	-	65035-621	Kosmos-1898	Strela-2M	-	-	NIIP-53	LC133/3	-	-	835	-	-
1987-103	2447145.06	1987 Dec 15 1330:00	Kosmos 11K65M	-	53726-183	Kosmos-1902	Vektor	-	-	NIIP-53	LC133/3	-	-	411	-	-
1987-106	2447153.35	1987 Dec 23 2022:40	Kosmos 11K65M	-	53711-281	Kosmos-1904	Parus	-	-	NIIP-53	LC133/3	-	-	1010	-	-
1988-S03	2447160.50	1988	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S04	2447160.50	1988	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S05	2447160.50	1988	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S06	2447160.50	1988	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S07	2447160.50	1988	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S08	2447160.50	1988	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S09	2447160.50	1988	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S10	2447160.50	1988	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S11	2447160.50	1988	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S12	2447160.50	1988	K65M-R	-	-	Molodets	10 BB 15F14/AA102	RGCh	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S13	2447160.50	1988	K65M-R	-	-	Osnashchenie	1 BB 15F176	MGCh 15F175	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S14	2447160.50	1988	K65M-R	-	-	Osnashchenie-2	10 BB 15F174	RGCh 15F173	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S15	2447160.50	1988	K65M-R	-	-	Osnashchenie-5	1 BB 15F172	MGCh 15F171	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S16	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S17	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S18	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S19	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S20	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S21	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S22	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S23	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S24	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S25	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S26	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S27	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S28	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S29	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S30	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-S31	2447160.50	1988	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1988-016	2447231.51	1988 Mar 11 0018:00	Kosmos 11K65M	-	47161-263	Kosmos-1924/1931	Strela-1M	-	-	NIIP-53	LC132/1	-	-	1693	-	-
1988-023	2447243.09	1988 Mar 22 1407:23	Kosmos 11K65M	-	47111-221	Kosmos-1934	Parus	-	-	NIIP-53	LC132/1	-	-	1014	-	-
1988-029	2447257.11	1988 Apr 5 1441:00	Kosmos 11K65M	-	47126-188	Kosmos-1937	Strela-2M	-	-	NIIP-53	LC133/3	-	-	811	-	-
1988-S99	2447333.58	1988 Jun 21 0200	K65M-RB	-	-	BOR-5 No. 505	-	-	-	GTsP-4	LC107	-	-	210?	-	-
1988-053	2447334.18	1988 Jun 21 1626:00	Kosmos 11K65M	-	47126-191	Kosmos-1954	Strela-2M	-	-	NIIP-53	LC133/3	-	-	819	-	-
1988-060	2447356.99	1988 Jul 14 1140:00	Kosmos 11K65M	-	47111-224	Kosmos-1958	Vektor	-	-	NIIP-53	LC132/1	-	-	413	-	-
1988-062	2447361.44	1988 Jul 18 2228:11	Kosmos 11K65M	-	65096-175	Kosmos-1959	Parus	-	-	NIIP-53	LC133/3	-	-	1008	-	-
1988-065	2447370.97	1988 Jul 28 1120:00	Kosmos 11K65M	-	65026-187	Kosmos-1960	Romb	-	-	NIIP-53	LC132/1	-	-	515	-	-
1989-S01	2447526.50	1989	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S02	2447526.50	1989	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S03	2447526.50	1989	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S04	2447526.50	1989	K65M-R	-	-	Oval	BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S05	2447526.50	1989	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S06	2447526.50	1989	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S07	2447526.50	1989	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S08	2447526.50	1989	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S09	2447526.50	1989	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S10	2447526.50	1989	K65M-R	-	-	Molodets	10 BB 15F14/AA102	RGCh	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S11	2447526.50	1989	K65M-R	-	-	Osnashchenie	1 BB 15F176	MGCh 15F175	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S12	2447526.50	1989	K65M-R	-	-	Osnashchenie-2	10 BB 15F174	RGCh 15F173	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S13	2447526.50	1989	K65M-R	-	-	Osnashchenie-5	1 BB 15F172	MGCh 15F171	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S14	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S15	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S16	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S17	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S18	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S19	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1989-S20	2447526.50	1989	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-005	2447553.15	1989 Jan 26 1536:00	Kosmos 11K65M	-	65079-812	Kosmos-1992	Strela-2M	-	-	NIIP-53	LC132/2	-	-	834	-	-
1989-012	2447572.21	1989 Feb 14 1700:00	Kosmos 11K65M	-	53726-192	Kosmos-2002	Duga-K	-	-	NIIP-53	LC132/2	-	-	2299	-	-
1989-017	2447579.65	1989 Feb 22 0328:49	Kosmos 11K65M	-	47111-236	Kosmos-2004	Parus	-	-	NIIP-53	LC132/2	-	-	1019	-	-
1989-025	2447610.07	1989 Mar 24 1338:00	Kosmos 11K65M	-	65011-232	Kosmos-2008/2015	Strela-1M	-	-	NIIP-53	LC132/2	-	-	1687	-	-
1989-028	2447621.28	1989 Apr 4 1836:52	Kosmos 11K65M	-	47126-194	Kosmos-2016	Parus	-	-	NIIP-53	LC132/2	-	-	1016	-	-
1989-042	2447684.72	1989 Jun 7 0512:35	Kosmos 11K65M	-	53711-225	Kosmos-2026	Parus	-	-	NIIP-53	LC132/2	-	-	1012	-	-
1989-045	2447692.02	1989 Jun 14 1230:00	Kosmos 11K65M	-	53761-249	Kosmos-2027	Vektor	-	-	NIIP-53	LC133/3	-	-	513	-	-
1989-050	2447712.14	1989 Jul 4 1521:36	Kosmos 11K65M	-	65061-250	Nadezhda	Nadehzda 17F118 No. 403	-	-	NIIP-53	LC133/3	-	-	1016	-	-
1989-059	2447732.83	1989 Jul 25 0748:44	Kosmos 11K65M	-	65061-256	Kosmos-2034	Parus	-	-	NIIP-53	LC133/3	-	-	1015	-	-
1990-S06	2447891.50	1990	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S07	2447891.50	1990	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S08	2447891.50	1990	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S09	2447891.50	1990	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S10	2447891.50	1990	K65M-R	-	-	Barkhan-5	3 BB	R-39 UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S11	2447891.50	1990	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S12	2447891.50	1990	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S13	2447891.50	1990	K65M-R	-	-	Amur-P	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S14	2447891.50	1990	K65M-R	-	-	Osnashchenie-8	BB 15F178	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S15	2447891.50	1990	K65M-R	-	-	Osnashchenie-8	BB 15F178	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S16	2447891.50	1990	K65M-R	-	-	Oval	BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S17	2447891.50	1990	K65M-R	-	-	Oval	BB	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S18	2447891.50	1990	K65M-R	-	-	Niva-6	MGCh	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S19	2447891.50	1990	K65M-R	-	-	Molodets	10 BB 15F14/AA102	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S20	2447891.50	1990	K65M-R	-	-	Osnashchenie-5	1 BB 15F172	MGCh 15F171	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S21	2447891.50	1990	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S22	2447891.50	1990	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S23	2447891.50	1990	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S24	2447891.50	1990	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-S25	2447891.50	1990	K65M-R	-	-	GCh	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1990-004	2447910.04	1990 Jan 18 1252:00	Kosmos 11K65M	-	65061-247	Kosmos-2056	Strela-2M	-	-	NIIP-53	LC133/3	-	-	829	-	-
1990-012	2447929.19	1990 Feb 6 1630:00	Kosmos 11K65M	-	53711-237	Kosmos-2059	Duga-K	-	-	NIIP-53	LC132/2	-	-	2281	-	-
1990-017	2447950.37	1990 Feb 27 2059:42	Kosmos 11K65M	-	53711-228	Nadezhda	Nadezhda 17F118 No. 405	-	-	NIIP-53	LC132/2	-	-	1022	-	-
1990-023	2447970.52	1990 Mar 20 0025:22	Kosmos 11K65M	-	47161-245	Kosmos-2061	Parus	-	-	NIIP-53	LC133/3	-	-	1019	-	-
1990-029	2447987.63	1990 Apr 6 0313:00	Kosmos 11K65M	-	65061-259	Kosmos-2064/2071	Strela-1M	-	-	NIIP-53	LC133/3	-	-	1702	-	-
1990-036	2448002.28	1990 Apr 20 1841:08	Kosmos 11K65M	-	53726-195	Kosmos-2074	Parus	-	-	NIIP-53	LC133/3	-	-	1007	-	-
1990-038	2448007.04	1990 Apr 25 1300:00	Kosmos 11K65M	-	65061-253	Kosmos-2075	Romb	-	-	NIIP-53	LC132/2	-	-	526	-	-
1990-078	2448132.16	1990 Aug 28 1545:00	Kosmos 11K65M	-	53711-240	Kosmos-2098	Vektor	-	-	NIIP-53	LC133/3	-	-	1976	-	-
1990-083	2448148.75	1990 Sep 14 0559:07	Kosmos 11K65M	-	65048-403	Kosmos-2100	Parus	-	-	NIIP-53	LC133/3	-	-	1016	-	-
1990-111	2448235.83	1990 Dec 10 0754:59	Kosmos 11K65M	-	47126-203	Kosmos-2112	Strela-2M	-	-	NIIP-53	LC133/3	-	-	820	-	-
1991-S03	2448256.50	1991	K65M-R	-	-	Layma	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S04	2448256.50	1991?	K65M-R	-	-	Igla-3 penetrator	GCh Igla-3	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S05	2448256.50	1991	K65M-R	-	-	Barkhan-5	3 BB	R-39UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S06	2448256.50	1991	K65M-R	-	-	Barkhan-5	3 BB	R-39UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S07	2448256.50	1991	K65M-R	-	-	Barkhan-5	3 BB	R-39UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S08	2448256.50	1991	K65M-R	-	-	Barkhan-5	3 BB	R-39UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S09	2448256.50	1991	K65M-R	-	-	Oval	-	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S10	2448256.50	1991	K65M-R	-	-	Igla-3	GCh Igla-3	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S11	2448256.50	1991	K65M-R	-	-	Barkhan-5	3 BB	R-39UTTKh R&D	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S12	2448256.50	1991	K65M-R	-	-	Amur-P	GCh Amur-P	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S13	2448256.50	1991	K65M-R	-	-	Osnashchenie-8	BB 15F178	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S14	2448256.50	1991	K65M-R	-	-	Niva-6	MGCh	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S15	2448256.50	1991	K65M-R	-	-	Molodets	10 BB 15F14/AA102	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-S16	2448256.50	1991	K65M-R	-	-	Osnashchenie-5	1 BB 15F172	MGCh 15F171	-	GTsP-4	LC107	-	-	675?	-	BALKH
1991-006	2448286.00	1991 Jan 29 1159:58	Kosmos 11K65M	-	53744-158	Informator-1	Informator No. 1	-	-	NIIP-53	LC133/3	-	-	1011	-	-
1991-007	2448292.61	1991 Feb 5 0236:45	Kosmos 11K65M	-	47148-407	Kosmos-2123	Tsikada/RS-12/RS-13	-	-	NIIP-53	LC133/3	-	-	1015	-	-
1991-009	2448299.61	1991 Feb 12 0244:00	Kosmos 11K65M	-	47187-204	Kosmos-2125/2132	Strela-1M	-	-	NIIP-53	LC133/3	-	-	1852	-	-
1991-013	2448313.70	1991 Feb 26 0453:06	Kosmos 11K65M	-	47168-254	Kosmos-2135	Parus	-	-	NIIP-53	LC133/3	-	-	1022	-	-
1991-019	2448328.31	1991 Mar 12 1929:04	Kosmos 11K65M	-	65048-406	Nadezhda	Nadezhda 17F118 No. 409	-	-	NIIP-53	LC133/3	-	-	1022	-	-
1991-021	2448335.10	1991 Mar 19 1430:00	Kosmos 11K65M	-	53448-417	Kosmos-2137	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	495	-	-
1991-029	2448362.81	1991 Apr 16 0721:42	Kosmos 11K65M	-	47148-401	Kosmos-2142	Parus	-	-	NIIP-53	LC132/1	-	-	1020	-	-
1991-041	2448418.74	1991 Jun 11 0541:59	Kosmos 11K65M	-	47159-819	Kosmos-2150	Strela-2M	-	-	NIIP-53	LC133/3	-	-	820	-	-
1991-F02	2448433.06	1991 Jun 25 1320:00	Kosmos 11K65M	-	65061-262	-	Romb	-	-	NIIP-53	LC132/1	-	-	100?	-	-
1991-059	2448491.02	1991 Aug 22 1235:46	Kosmos 11K65M	-	53778-429	Kosmos-2154	Parus	-	-	NIIP-53	LC132/1	-	-	1010	-	-
1991-072	2448540.08	1991 Oct 10 1400:00	Kosmos 11K65M	-	53778-420	Kosmos-2164	Taifun-1B	-	-	NIIP-53	LC132/1	-	-	708	-	-
1991-081	2448587.65	1991 Nov 27 0330:26	Kosmos 11K65M	-	65048-409	Kosmos-2173	Parus	-	-	NIIP-53	LC133/3	-	-	1020	-	-
1992-S03	2448621.50	1992	K65M-R	-	-	Oval	BB	R&D Oval (VMF RV)	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S04	2448621.50	1992	K65M-R	-	-	Barkhan-5	RGCh (3 BB)	R-39UTTKh R&D Barkhan-5	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S05	2448621.50	1992	K65M-R	-	-	Barkhan-5	RGCh (3 BB)	R-39UTTKh R&D Barkhan-5	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S06	2448621.50	1992	K65M-R	-	-	Barkhan-5	RGCh (3 BB)	R-39UTTKh R&D Barkhan-5	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S07	2448621.50	1992	K65M-R	-	-	Igla-3	GCh	Igla-3	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S08	2448621.50	1992	K65M-R	-	-	Amur-P	GCh	Amur-P	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-S09	2448621.50	1992	K65M-R	-	-	Niva-6	MGCh	Topol'-M R&D Niva-6	-	GTsP-4	LC107	-	-	675?	-	BALKH
1992-008	2448670.42	1992 Feb 17 2205:08	Kosmos 11K65M	-	65078-418	Kosmos-2180	Parus	-	-	NIIP-53	LC133/3	-	-	1017	-	-
1992-012	2448691.44	1992 Mar 9 2235:59	Kosmos 11K65M	-	53778-423	Kosmos-2181	Tsikada	-	-	NIIP-53	LC132/1	-	-	1019	-	-
1992-020	2448727.80	1992 Apr 15 0717:43	Kosmos 11K65M	-	47178-419	Kosmos-2184	Parus	-	-	NIIP-53	LC132/1	-	-	1016	-	-
1992-030	2448776.54	1992 Jun 3 0050:30	Kosmos 11K65M	-	53742-114	Kosmos-2187/2194	Strela-1M	-	-	NIIP-53	LC133/3	-	-	1689	-	-
1992-036	2448805.34	1992 Jul 1 2016:22	Kosmos 11K65M	-	65072-427	Kosmos-2195	Parus	-	-	NIIP-53	LC133/3	-	-	1012	-	-
1992-053	2448846.74	1992 Aug 12 0544:01	Kosmos 11K65M	-	65078-421	Kosmos-2208	Strela-2M	-	-	NIIP-53	LC132/1	-	-	841	-	-
1992-073	2448924.94	1992 Oct 29 1040:33	Kosmos 11K65M	-	65078-424	Kosmos-2218	Parus	-	-	NIIP-53	LC133/3	-	-	1016	-	-
1993-S04	2448987.50	1993	K65M-R	-	-	Barkhan-5	RGCh IN (3 BB)	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1993-S05	2448987.50	1993	K65M-R	-	-	Barkhan-6	RGCh IN	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1993-S06	2448987.50	1993	K65M-R	-	-	GCh	GCh	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1993-S07	2448987.50	1993	K65M-R	-	-	GCh	GCh	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1993-S08	2448987.50	1993	K65M-R	-	-	GCh	GCh	-	-	GTsP-4	LC107	-	-	675?	-	BALKH
1993-001	2448999.97	1993 Jan 12 1110:17	Kosmos 11K65M	-	53778-426	Kosmos-2230	Tsikada	-	-	GNIIPV	LC133/3	-	-	1012	-	-
1993-008	2449027.62	1993 Feb 9 0256:56	Kosmos 11K65M	-	47178-428	Kosmos-2233	Parus	-	-	GNIIPV	LC133/3	-	-	1010	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-020	2449079.29	1993 Apr 1 1857:26	Kosmos 11K65M	-	47178-431	Kosmos-2239	Parus	-	-	GNIIPV	LC133/3	-	-	1018	-	-
1993-036	2449154.68	1993 Jun 16 0417:00	Kosmos 11K65M	-	47135-601	Kosmos-2251	Strela-2M	-	-	GNIIPV	LC132/1	-	-	817	-	-
1993-067	2449287.04	1993 Oct 26 1300:04	Kosmos 11K65M	-	65065-624	Kosmos-2265	Taifun-1B	-	-	GNIIPV	LC132/1	-	-	1574	-	-
1993-070	2449294.01	1993 Nov 2 1210:09	Kosmos 11K65M	-	53735-608	Kosmos-2266	Parus	-	-	GNIIPV	LC132/1	-	-	1021	-	-
1994-S01	2449352.50	1994	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsP-4	LC107	-	-	675?	-	-
1994-S02	2449352.50	1994	K65M-R	-	-	Barkhan-6	RGCh	BRLL R&D Barkhan-6	-	GTsP-4	LC107	-	-	675?	-	-
1994-024	2449468.59	1994 Apr 26 0214:15	Kosmos 11K65M	-	53735-614	Kosmos-2279	Parus	-	-	GNIIPV	LC133/3	-	-	1020	-	-
1994-041	2449547.72	1994 Jul 14 0513:30	Kosmos 11K65M	-	65035-612	Nadezhda	Nadezhda 17F118 No. 104	-	-	GNIIPV	LC133/3	-	-	1008	-	-
1994-045	2449567.33	1994 Aug 2 2000:01	Kosmos 11K65M	-	47135-613	Kosmos-2285	Obzor No. 1	-	-	GNIIPV	LC132/1	-	-	1013	-	-
1994-061	2449623.08	1994 Sep 27 1400:00	Kosmos 11K65M	-	47135-616	Kosmos-2292	Vektor	-	-	GNIIPV	LC132/1	-	-	1954	-	-
1994-083	2449706.72	1994 Dec 20 0511:01	Kosmos 11K65M	-	53735-617	Kosmos-2298	Strela-2M	-	-	GIK-1	LC132/1	-	-	838	-	-
1995-002	2449741.66	1995 Jan 24 0354:22	Kosmos 11K65M	-	53735-620	Tsikada/Astrid	Tsikada	-	-	GIK-1	LC132/1	-	-	1027	-	-
1995-008	2449779.04	1995 Mar 2 1300:00	Kosmos 11K65M	-	65065-627	Kosmos-2306	Romb	-	-	GIK-1	LC132/1	-	-	544	-	-
1995-012	2449798.67	1995 Mar 22 0409:03	Kosmos 11K65M	-	47135-622	Kosmos-2310	Parus	-	-	GIK-1	LC132/1	-	-	1013	-	-
1995-032	2449903.63	1995 Jul 5 0309:03	Kosmos 11K65M	-	53765-638	Kosmos-2315	Nadezhda 17F118	-	-	GIK-1	LC132/1	-	-	1016	-	-
1995-052	2449996.64	1995 Oct 6 0323:10	Kosmos 11K65M	-	47165-625	Kosmos-2321	Parus	-	-	GIK-1	LC132/1	-	-	802	-	-
1995-S72	2450023.50	1995 Nov 2?	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsP-4	LC107	-	-	675?	-	BALKH
1996-S02	2450082.50	1996	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsP-4	LC107	-	-	675?	-	BALKH
1996-004	2450099.15	1996 Jan 16 1533:45	Kosmos 11K65M	-	47187-201	Kosmos-2327	Parus	-	-	GIK-1	LC132/1	-	-	1033	-	-
1996-025	2450198.04	1996 Apr 24 1300:01	Kosmos 11K65M	-	47187-213	Kosmos-2332	Taifun-1B	-	-	GIK-1	LC132/1	-	-	1565	-	-
1996-052	2450332.03	1996 Sep 5 1247:39	Kosmos 11K65M	-	53759-826	Kosmos-2334/UNAMSAT	Parus	-	-	GIK-1	LC132/1	-	-	1014	-	-
1996-071	2450437.78	1996 Dec 20 0643:58	Kosmos 11K65M	-	65065-633	Kosmos-2336	Parus	-	-	GIK-1	LC132/1	-	-	1014	-	-
1997-S01	2450448.50	1997	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsP-4	LC107	-	-	675?	-	BALKH
1997-S02	2450448.50	1997	K65M-R	-	-	Barkhan-6	RGCh	BRLL R&D Barkhan-6	-	GTsP-4	LC107	-	-	675?	-	BALKH
1997-017	2450556.04	1997 Apr 17 1303:21	Kosmos 11K65M	-	53765-635	Kosmos-2341	Parus	-	-	GIK-1	LC132/1	-	-	1016	-	-
1997-052	2450715.20	1997 Sep 23 1644:51	Kosmos 11K65M	-	47165-637	Kosmos-2346/FAISAT	Parus	-	-	GIK-1	LC132/1	-	-	998	-	-
1998-S01	2450813.50	1998	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsP-4	LC107	-	-	675?	-	BALKH
1998-072	2451158.00	1998 Dec 10 1157:07	Kosmos 11K65M	-	53713-320	Nadezhda/Astrid-2	Nadezhda 17F118	-	-	GIK-1	LC132/1	-	-	1045	-	-
1998-076	2451172.33	1998 Dec 24 2002:19	Kosmos 11K65M	-	47164-504	Kosmos-2361	Parus	-	-	GIK-1	LC132/1	-	-	1015	-	-
1999-022	2451297.35	1999 Apr 28 2030:00	Kosmos 11K65M	-	65036-413	ABRIXAS/Megsat-0	ABRIXAS	-	-	GTsMP-4	LC107	-	-	608	-	-
1999-045	2451417.00	1999 Aug 26 1202:15	Kosmos 11K65M	-	65021-703	Kosmos-2366	Parus	-	-	GIK-1	LC132/1	-	-	1011	-	-
1999-S57	2451418.31	1999 Aug 27 1919:59	K65M-R	-	-	Niva-9	MGCh	Topol'-M R&D Niva-9	-	GTsMP-4	LC107	-	-	675?	-	BALKH
2000-033	2451723.94	2000 Jun 28 1037:42	Kosmos 11K65M	-	53752-105	Nadezhda/Tsinghua	Nadezhda 17F118 No. 701	-	-	GIK-1	LC132/1	-	-	708	-	-
2000-039	2451741.00	2000 Jul 15 1200:00	Kosmos 11K65M	-	47136-414	CHAMP/BIRD/MITA	MITA-NINA	-	-	GIK-1	LC132/1	-	-	477	-	-
2000-074	2451869.46	2000 Nov 20 2300:00	Kosmos 11K65M	-	47165-631	QuickBird 1	QuickBird 1	-	-	GIK-1	LC132/1	-	-	614	-	-
2001-023	2452069.13	2001 Jun 8 1508:42	Kosmos 11K65M	-	53706-412	Kosmos-2378	Parus	-	-	GIK-1	LC132/1	-	-	1012	-	-
2002-S86	2452274.50	2002	K65M-R	-	65013-318 RN10	Niva-10	3 x 3G32 BB	Yars/Bulava R&D	-	GTsMP-4	LC107	-	-	675?	-	-
2002-026	2452423.26	2002 May 28 1814:41	Kosmos 11K65M	-	53721-702	Kosmos-2389	Parus?	-	-	GIK-1	LC132/1	-	-	1018	-	-
2002-036	2452463.77	2002 Jul 8 0635:41	Kosmos 11K65M	-	47121-704	Kosmos-2390/2391	Strela-3	-	-	GIK-1	LC132/1	-	-	1524	-	-
2002-046	2452544.10	2002 Sep 26 1427:14	Kosmos 11K65M	-	65021-706	Nadezhda-M	Nadezhda-M 17F118M No. 4	-	-	GIK-1	LC132/1	-	-	1018	-	-
2002-054	2452606.75	2002 Nov 28 0607:07	Kosmos 11K65M	-	53779-802	DMC-1/Mozhaets	DMC Alsat-1	-	-	GIK-1	LC132/1	-	-	750	-	-
2003-023	2452795.31	2003 Jun 4 1923:52	Kosmos 11K65M	-	53721-705	Kosmos-2398	Parus?	-	-	GIK-1	LC132/1	-	-	1020	-	-
2003-037	2452870.95	2003 Aug 19 1050:45	Kosmos 11K65M	-	47179-804	Kosmos-2400/2401	Strela-3	-	-	GIK-1	LC132/1	-	-	1507	-	-
2003-042	2452909.76	2003 Sep 27 0611:44	Kosmos 11K65M	-	65052-103	STSat-1/DMC-2/Mozh.	Mozhaets 4	-	-	GIK-1	LC132/1	-	-	696	-	-
2003-S61	2452997.50	2003 Dec 24	K65M-R	-	65013-321 RN11	Niva-11	3 x 3G32 BB	Yars/Bulava R&D	-	GTsMP-4	LC107	-	-	675?	-	BALKH
2004-028	2453209.24	2004 Jul 22 1746:28	Kosmos 11K65M	-	53779-805	Kosmos-2407	Parus	-	-	GIK-1	LC132/1	-	-	1009	-	-
2004-037	2453272.13	2004 Sep 23 1507:36	Kosmos 11K65M	-	53779-811	Kosmos-2408/2409	Strela-3	-	-	GIK-1	LC132/1	-	-	1506	-	-
2005-S64	2453370.50	2005	K65M-R	-	- RN11-2	Niva-11-2	3 x 3G32 BB	Yars/Bulava R&D	-	GTsMP-4	LC107	-	-	675?	-	BALKH
2005-002	2453390.63	2005 Jan 20 0300:07	Kosmos 11K65M	-	47106-411	Kosmos-2414	Parus?	-	-	GIK-1	LC132/1	-	-	969	-	-
2005-043	2453670.79	2005 Oct 27 0652:26	Kosmos 11K65M	-	47152-104	Topsat/DMC-3/Mozh.	China-DMC	-	-	GIK-1	LC132/1	-	-	713	-	-
2005-048	2453726.32	2005 Dec 21 1934:20	Kosmos 11K65M	-	53727-232	Gonets/Kosmos-2416	Gonets-M No. 11/Rodnik	-	-	GIK-1	LC132/1	-	-	1458	-	-
2006-S16	2453848.15	2006 Apr 22 1540	K65M-R	-	65087-215	PBS test 2	3 x 3G32 BB	K65M-RN11-2	-	GTsMP-4	LC107/1	-	-	675?	-	BALKH
2006-060	2454089.08	2006 Dec 19 1400:19	Kosmos 11K65M	-	53727-226 SL	SAR-Lupe 1	SAR-Lupe 1	-	-	GIK-1	LC132/1	-	-	512	-	-
2007-030	2454284.32	2007 Jul 2 1938:41	Kosmos 11K65M	-	47163-313 SL	SAR-Lupe 2	SAR-Lupe 2	-	-	GIK-1	LC132/1	-	-	600	-	-
2007-038	2454355.05	2007 Sep 11 1305:06	Kosmos 11K65M	-	53752-108	Kosmos-2429	Parus?	-	-	GIK-1	LC132/1	-	-	1012	-	-
2007-053	2454405.54	2007 Nov 1 0051:44	Kosmos 11K65M	-	53765-632 SL	SAR-Lupe 3	SAR-Lupe 3	-	-	GIK-1	LC132/1	-	-	541	-	-
2008-014	2454553.22	2008 Mar 27 1716:18	Kosmos 11K65M	-	53713-326 SL	SAR-Lupe 4	SAR-Lupe 4	-	-	GIK-1	LC132/1	-	-	521	-	-
2008-031	2454636.78	2008 Jun 19 0636:46	Kosmos 11K65M	-	53781-708 KL	Orbcomm CDS/R1-R5	Orbcomm FM38	-	-	GTsMP-4	LC107	-	-	675	-	-
2008-036	2454669.61	2008 Jul 22 0240:09	Kosmos 11K65M	-	53752-101 SL	SAR-Lupe 5	SAR-Lupe 5	-	-	GIK-1	LC132/1	-	-	637	-	-
2009-039	2455033.67	2009 Jul 21 0357:43	Kosmos 11K65M	-	47181-710	Kosmos-2454/Sterkh	Parus	-	-	GIK-1	LC132/1	-	-	946	-	-
2010-017	2455313.55	2010 Apr 27 0105:09	Kosmos 11K65M	-	47181-707	Kosmos-2463	Parus	-	-	GIK-1	LC132/1	-	-	1023	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S119	2437091.50	1960 Jun 6	R-14	-	LD1-3T	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1960-S114	2437110.50	1960 Jun 25	R-14	-	LD1-4T	0.000	RVSN	MF	U	-	Test	Z20	-	-
1960-S210	2437149.50	1960 Aug 3	R-14	-	LD1-6T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S211	2437159.50	1960 Aug 13	R-14	-	LD1-7T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S212	2437166.50	1960 Aug 20	R-14	-	LD1-8T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S260	2437186.15	1960 Sep 8 1536	R-14	-	LD1-9T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S261	2437195.10	1960 Sep 17 1431	R-14	-	LD1-10T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S302	2437209.04	1960 Oct 1 1303	R-14	-	LD1-11T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S303	2437214.10	1960 Oct 6 1427	R-14	-	LD1-12T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S340	2437258.50	1960 Nov 20	R-14	-	LD1-11L	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S341	2437264.50	1960 Nov 26	R-14	-	13L-15T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S424	2437292.50	1960 Dec 24	R-14	-	14L-16T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1960-S428	2437298.50	1960 Dec 30	R-14	-	15L-17T	0.000	RVSN	MS	-	-	Test	Z20	RKAYu	-
1961-S04	2437303.50	1961 Jan 4	R-14	-	16L-18T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S05	2437307.50	1961 Jan 8	R-14	-	17L-19T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S06	2437325.50	1961 Jan 26	R-14	-	12L-14T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S07	2437327.50	1961 Jan 28	R-14	-	18L-20T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S08	2437330.50	1961 Jan 31	R-14	-	19L-21T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S29	2437333.50	1961 Feb 3	R-14	-	20L-1T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S38	2437338.50	1961 Feb 8	R-14	-	22L-26T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S30	2437345.50	1961 Feb 15	R-14	-	21L-2T	0.000	RVSN	MS	-	-	Test	BMLX	Z20	-
1961-S478	2437389.50	1961 Apr	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1961-S166	2437454.50	1961 Jun 4	R-14	-	E22501-09T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S263	2437561.50	1961 Sep 19	R-14	-	24L	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S264	2437562.50	1961 Sep 20	R-14	-	23L	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S337	2437591.50	1961 Oct 19	R-14	-	1LU	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-A221	2437595.50	1961 Oct 23	R-14	-	30L	0.000	RVSN	MF	U	-	Test	Z20	-	-
1961-S363	2437603.50	1961 Oct 31	R-14	-	R-14-210	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S389	2437629.50	1961 Nov 26	R-14	-	R-14-210	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S390	2437632.50	1961 Nov 29	R-14	-	28L	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S402	2437634.50	1961 Dec 1	R-14	-	E22501-08T	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S405	2437637.50	1961 Dec 4	R-14	-	29L	0.000	RVSN	MS	-	-	Test	BMLX	Z20	-
1961-A247	2437641.50	1961 Dec 8	R-14	-	31L	0.000	RVSN	MF	U	-	Test	Z20	-	-
1961-A251	2437659.50	1961 Dec 26	R-14	-	E22503-07T	0.000	RVSN	MF	U	-	Test	Z20	-	-
1962-S11	2437675.50	1962 Jan 11	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1962-S10	2437676.50	1962 Jan 12	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1962-S36	2437707.15	1962 Feb 11 1533	R-14U	-	-	0.000	RVSN	MS	-	-	Test	Z20	-	-
1962-S652	2437723.50	1962 Mar	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S653	2437723.50	1962 Mar	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-A49	2437765.50	1962 Apr 11	R-14U	-	-	0.000	RVSN	MF	U	-	Test	MS5-65	-	-
1962-S159	2437819.50	1962 Jun 4	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S168	2437821.50	1962 Jun 6	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S179	2437823.50	1962 Jun 8	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S211	2437845.50	1962 Jul?	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S212	2437845.50	1962 Jul?	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S213	2437845.50	1962 Jul?	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S278	2437881.50	1962 Aug 5	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S643	2437912.50	1962 Sep 5	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S644	2437912.50	1962 Sep 5	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S645	2437915.50	1962 Sep 8	R-14	-	-	0.000	RVSN	MS	-	-	Nuclear Test?	BMLX	-	-
1962-S318	2437932.50	1962 Sep 25	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S373	2437937.50	1962 Oct	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S374	2437937.50	1962 Oct	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S375	2437937.50	1962 Oct	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S376	2437966.50	1962 Oct 29	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S445	2437968.50	1962 Nov	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S446	2437968.50	1962 Nov	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S447	2437972.50	1962 Nov 4	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1962-S449	2437983.50	1962 Nov 15	R-14	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1962-S642	2437983.50	1962 Nov 15	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1962-S448	2437994.50	1962 Nov 26	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1962-A265	2437998.50	1962 Dec?	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S506	2438007.50	1962 Dec 9	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1962-S580	2438024.50	1962 Dec 26	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1963-S04	2438029.50	1963 Jan	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S643	2438047.50	1963 Jan 18	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1963-S644	2438061.50	1963 Feb 1	R-14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1963-S45	2438073.50	1963 Feb 13	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-A46	2438116.50	1963 Mar 28	R-14U	-	-	0.000	RVSN	MF	U	-	Test	MS5-65	-	-
1963-S129	2438119.50	1963 Apr	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S144	2438130.50	1963 Apr 11	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S309	2438209.50	1963 Jun 29	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S310	2438209.50	1963 Jun 29	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S653	2438228.50	1963 Jul 18	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1963-S413	2438271.50	1963 Aug 30	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S646	2438324.50	1963 Oct 22	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-A172	2438352.50	1963 Nov 19	R-14U	-	-	0.000	RVSN	MF	U	-	Test	MS5-65	-	-
1963-S589	2438372.50	1963 Dec 9	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1963-S618	2438393.50	1963 Dec 30	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1964-S69	2438427.50	1964 Feb 2	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1964-A33	2438467.50	1964 Mar 13	R-14U	-	-	0.000	RVSN	MF	U	-	Test	MS5-65	-	-
1964-S171	2438479.50	1964 Mar 25	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1964-S276	2438554.50	1964 Jun 8	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	MS5-65	-
1964-S305	2438568.50	1964 Jun 22	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1964-046	2438625.89	1964 Aug 18 0915	Kosmos 65S3	-	4000-000-02L	0.150	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1964-S464	2438649.50	1964 Sep 11	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-F12	2438691.81	1964 Oct 23 0730	Kosmos 65S3	-	4000-000-01L	0.150	RVSN	OF	S2P	G	Sat LEO O	Glazami	NK9912-73	Fail T+4:33
1964-S694	2438747.50	1964 Dec 18	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S821	2438760.50	1965?	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1965-S08	2438760.50	1965 Jan	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S30	2438768.50	1965 Jan 8	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-S46	2438783.50	1965 Jan 23	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-011	2438812.96	1965 Feb 21 1100	Kosmos 65S3	-	4000-000-03L	0.150	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1965-S182	2438841.50	1965 Mar 22	R-14U	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	-	-
1965-020	2438834.96	1965 Mar 15 1100	Kosmos 65S3	-	4000-000-04L	0.150	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1965-S808	2438955.50	1965 Jul 14	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1965-053	2438957.65	1965 Jul 16 0331	Kosmos 65S3	-	4000-000-05L	0.250	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1965-070	2439007.08	1965 Sep 3 1400	Kosmos 65S3	-	4000-000-07LS	0.250	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1965-073	2439021.83	1965 Sep 18 0759	Kosmos 65S3	-	4000-000-08LS	0.250	RVSN	OS	-	G	Sat LEO O	RAE	NK9912-73	-
1965-S809	2439033.50	1965 Oct	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1965-112	2439123.02	1965 Dec 28 1230	Kosmos 65S3	-	4000-000-09LP	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9912-73	-
1966-S789	2439213.50	1966 Mar 29	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S790	2439270.50	1966 May 25	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S791	2439305.50	1966 Jun 29	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S807	2439311.50	1966 Jul 5	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-S792	2439312.50	1966 Jul 6	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S793	2439335.50	1966 Jul 29	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S794	2439419.50	1966 Oct 21	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-S795	2439445.50	1966 Nov 16	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1966-F11	2439446.04	1966 Nov 16 1300	Kosmos 11K65	-	4000-000-10LP	0.800	RVSN	OF	S2P	G	Sat LEO O	AK15/AVMNLJ	NK9912-73	Fail T+4:00
1967-S776	2439528.50	1967 Feb 7	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1967-S755	2439566.50	1967 Mar 17	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-027	2439573.99	1967 Mar 24 1150	Kosmos 11K65	-	4000-000-06LM	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9912-73	-
1967-045	2439625.96	1967 May 15 1100:00	Kosmos 11K65M	-	N149 -16LM	0.800	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1967-S756	2439637.50	1967 May 27	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-S757	2439661.50	1967 Jun 20	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-F07	2439667.69	1967 Jun 26 0430	Kosmos 11K65M	-	N149 -20LM	0.400	RVSN	OF	FF	G	Sat LEO O	AK15	AVMNLJ	Shroud failed
1967-S758	2439717.50	1967 Aug 15	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-S759	2439745.50	1967 Sep 12	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-F10	2439760.96	1967 Sep 27 1100	Kosmos 11K65M	-	N149 -15LM	0.800	RVSN	OF	PE	G	Sat LEO O	AK15	AVMNLJ	Pad explosion
1967-S760	2439762.50	1967 Sep 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-S761	2439767.50	1967 Oct 4	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1967-S489	2439776.01	1967 Oct 12 1215	Kosmos 11K65	-	U149 -13 (13L)	0.000	RVSN	RS	-	-	Solar UV	RML	SR11,1063	[SR11:1415]
1967-S764	2439786.50	1967 Oct 23	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-108	2439794.25	1967 Oct 30 1759:59	Kosmos 11K65M	-	N149 -19LM	0.400	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1967-116	2439818.12	1967 Nov 23 1500:00	Kosmos 11K65M	-	N149 -18LM	0.775	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1968-006	2439875.42	1968 Jan 19 2200:00	Kosmos 11K65M	-	N149 -21LM	0.434	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1968-S772	2439887.50	1968 Feb 1	R-14U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-011	2439907.17	1968 Feb 20 1600:00	Kosmos 11K65M	-	N149 -22LM	0.800	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1968-S219	2439943.98	1968 Mar 28 1130	Kosmos 11K65	-	U149 -14 (14L)	0.000	RVSN	RF	U	-	Solar UV?	RML	NK9912-73	-
1968-040	2439984.08	1968 May 7 1358:00	Kosmos 11K65M	-	N149 -17LM	0.775	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1968-S756	2439992.50	1968 May 16	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1968-S763	2440005.50	1968 May 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1968-F05	2440012.28	1968 Jun 4 1845:00	Kosmos 11K65M	-	N149 -23LM	0.800	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	Engine failed T+7:36
1968-S752	2440014.50	1968 Jun 7?	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1968-S753	2440014.50	1968 Jun 7?	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1968-F06	2440023.02	1968 Jun 15 1225	Kosmos 11K65	-	4000-000-11LP	0.800	RVSN	OF	S2P	G	Sat LEO O	AK15	NK9912-73	Engine failed
1968-S764	2440027.50	1968 Jun 20	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1968-S765	2440040.50	1968 Jul 3	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1968-S766	2440055.50	1968 Jul 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1968-S754	2440068.50	1968 Aug	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1968-070	2440095.98	1968 Aug 27 1129	Kosmos 11K65	-	4000-000-12L	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9912-73	-
1968-095	2440160.42	1968 Oct 30 2200:00	Kosmos 11K65M	-	V149 -28LM	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1968-106	2440191.00	1968 Nov 30 1200:01	Kosmos 11K65M	-	V149 -24LM	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1969-S778	2440248.50	1969 Jan 27	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-S779	2440270.50	1969 Feb 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-S780	2440270.50	1969 Feb 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-021	2440286.23	1969 Mar 5 1725:01	Kosmos 11K65M	-	V149 -26LM	0.434	RVSN	OS	-	G	Sat LEO O	RAEX	XPC	-
1969-024	2440298.19	1969 Mar 17 1640:18	Kosmos 11K65M	-	V149 -27LM	0.800	RVSN	OS	-	G	Sat LEO O	RAEX	XPC	-
1969-S781	2440305.50	1969 Mar 25	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-S782	2440314.50	1969 Apr 3	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-S784	2440384.50	1969 Jun 12	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1969-S765	2440384.50	1969 Jun 12	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1969-S809	2440385.50	1969 Jun 13?	R-14U	?	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S783	2440393.50	1969 Jun 21	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1969-S763	2440402.50	1969 Jul	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1969-S764	2440402.50	1969 Jul	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1969-S803	2440405.50	1969 Jul 3	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1969-S694	2440420.44	1969 Jul 17 2230	R-14U	-	-	0.000	RVSN	MF	U	-	Target	RPCB	NKO709-36	-
1969-070	2440447.42	1969 Aug 13 2200:02	Kosmos 11K65M	-	Yu149 -35LM	0.775	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1969-S756	2440477.35	1969 Sep 12 2030?	R-14U	-	T 14902-15	0.000	RVSN	MS	-	-	Target	RML	-	-
1969-091	2440516.03	1969 Oct 21 1249:59	Kosmos 11K65M	-	Yu226 -11U	0.795	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1969-S757	2440529.21	1969 Nov 3 1700	R-14U	-	T 14902-18TF	0.000	RVSN	MS	-	-	Target	RML	-	-
1969-S758	2440546.25	1969 Nov 20 1800	R-14U	-	T 14902-17TF	0.000	RVSN	MS	-	-	Target	RML	-	-
1969-103	2440550.20	1969 Nov 24 1649:59	Kosmos 11K65M	-	Yu149 -41LM	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1969-107	2440575.64	1969 Dec 20 0326:00	Kosmos 11K65M	-	V149 -29LM	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1969-F15	2440583.10	1969 Dec 27 1420:00	Kosmos 11K65M	-	Yu226 -12U	0.800	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	Early cutoff
1970-S745	2440637.50	1970 Feb 20	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1970-024	2440683.97	1970 Apr 7 1110:01	Kosmos 11K65M	-	V149 -34LM	0.434	RVSN	OS	-	G	Sat LEO O	RAEX	XPC	-
1970-028	2440688.21	1970 Apr 11 1700:00	Kosmos 11K65M	-	V149 -36LM	0.775	RVSN	OS	-	G	Sat LEO O	RAEX	XPC	-
1970-036	2440702.21	1970 Apr 25 1709:16	Kosmos 11K65M	-	V149 -33LM	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-S730	2440735.46	1970 May 28 2300	R-14U	-	T 14902-06T	0.000	RVSN	MS	-	-	Target	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S731	2440743.88	1970 Jun 6 0900	R-14U	-	T 14901-01T	0.000	RVSN	MS	-	-	Target	RMOL	-	-
1970-S746	2440757.50	1970 Jun 20	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1970-F05	2440765.19	1970 Jun 27 1639:59	Kosmos 11K65M	-	47117-102	0.800	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	T+1:25 early cutoff
1970-064	2440819.10	1970 Aug 20 1430:01	Kosmos 11K65M	-	Yu47121-13	0.643	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-083	2440872.08	1970 Oct 12 1357:00	Kosmos 11K65M	-	47117-103	0.775	RVSN	OS	-	G	Sat LEO O	RAEX	XPC	-
1970-S747	2440872.50	1970 Oct 13	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1970-086	2440876.12	1970 Oct 16 1459:59	Kosmos 11K65M	-	53717-104	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1970-S762	2440882.50	1970 Oct 23	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1970-097	2440908.26	1970 Nov 17 1820:01	Kosmos 11K65M	-	65017-107	0.281	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1970-102	2440922.67	1970 Dec 2 0400:02	Kosmos 11K65M	-	47117-105	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1970-108	2440933.04	1970 Dec 12 1300:00	Kosmos 11K65M	-	V149-39LM	0.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1970-111	2440936.69	1970 Dec 16 0429:59	Kosmos 11K65M	-	V149-31LM	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1970-F10	2440943.40	1970 Dec 22 2130	Kosmos 11K65M	-	47117-106	0.643	RVSN	OF	S1P	G	Sat LEO O	AVMDS	Polyot	T+1s, fell back on pad
1971-010	2440992.28	1971 Feb 9 1848:48	Kosmos 11K65M	-	65027-119	0.643	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1971-013	2441000.38	1971 Feb 17 2109:59	Kosmos 11K65M	-	53727-117	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-020	2441029.41	1971 Mar 18 2145:00	Kosmos 11K65M	-	65027-118	0.643	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1971-035	2441064.98	1971 Apr 23 1130:00	Kosmos 11K65M	-	53727-116	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-038	2441070.11	1971 Apr 28 1435	Kosmos 11K65M	-	53727-115	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-041	2441079.10	1971 May 7 1420:00	Kosmos 11K65M	-	53727-121	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-046	2441093.54	1971 May 22 0051:31	Kosmos 11K65M	-	53727-120	0.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-S697	2441099.50	1971 May 28	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1971-050	2441100.66	1971 May 29 0349:58	Kosmos 11K65M	-	V149-30LM	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-S692	2441102.50	1971 Jun	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1971-052	2441107.26	1971 Jun 4 1810:00	Kosmos 11K65M	-	65014-101	0.298	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1971-S698	2441132.50	1971 Jul	R-14	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1971-F07	2441155.07	1971 Jul 22 1345:00	Kosmos 11K65M	-	V149-32LM	0.434	RVSN	OF	S2P2	G	Sat LEO O	AK15	Polyot	Circ burn failed
1971-S699	2441178.50	1971 Aug 15	R-14	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1971-074	2441201.55	1971 Sep 7 0115:01	Kosmos 11K65M	-	Yu149-42	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-075	2441204.65	1971 Sep 10 0337:59	Kosmos 11K65M	-	65014-106	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-S704	2441211.50	1971 Sep 17	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1971-S700	2441217.50	1971 Sep 23	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1971-S701	2441236.50	1971 Oct 12	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1971-086	2441238.07	1971 Oct 13 1341:00	Kosmos 11K65M	-	47114-104	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-099	2441276.25	1971 Nov 20 1800:01	Kosmos 11K65M	-	47114-105	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-102	2441285.23	1971 Nov 29 1730:00	Kosmos 11K65M	-	65027-110	0.643	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1971-103	2441286.19	1971 Nov 30 1639:01	Kosmos 11K65M	-	65017-101	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-105	2441288.23	1971 Dec 2 1730:01	Kosmos 11K65M	-	47117-109	0.330	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1971-111	2441300.69	1971 Dec 15 0431:21	Kosmos 11K65M	-	65017-108	0.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-114	2441303.04	1971 Dec 17 1300:01	Kosmos 11K65M	-	65014-102	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1971-119	2441313.29	1971 Dec 27 1900:00	Kosmos 11K65M	-	65014-103	0.348	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1972-S763	2441362.50	1972 Feb 15	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1972-009	2441372.83	1972 Feb 25 0752:29	Kosmos 11K65M	-	53727-113	0.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-017	2441399.35	1972 Mar 22 2030:59	Kosmos 11K65M	-	47127-122	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-019	2441401.60	1972 Mar 25 0220:00	Kosmos 11K65M	-	65027-123	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-S764	2441437.50	1972 May	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1972-035	2441443.98	1972 May 6 1124:51	Kosmos 11K65M	-	65024-110	0.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-S765	2441456.50	1972 May 19	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1972-S766	2441463.50	1972 May 26	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1972-043	2441491.89	1972 Jun 23 0924:00	Kosmos 11K65M	-	47127-111	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1972-S791	2441497.50	1972 Jun 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1972-S767	2441506.50	1972 Jul 8	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1972-053	2441509.18	1972 Jul 10 1615:00	Kosmos 11K65M	-	65014-107	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1972-057	2441519.26	1972 Jul 20 1810:00	Kosmos 11K65M	-	47127-112	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1972-062	2441546.07	1972 Aug 16 1340:01	Kosmos 11K65M	-	Yu149-38	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-074	2441590.35	1972 Sep 29 2018:59	Kosmos 11K65M	-	Yu47121-11	0.643	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1972-F06	2441608.33	1972 Oct 17 1959:01	Kosmos 11K65M	-	Yu149-40	0.800	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	T+9:26 St 2 fail
1972-087	2441622.59	1972 Nov 1 0208:00	Kosmos 11K65M	-	Yu149-46	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-088	2441624.57	1972 Nov 3 0134:00	Kosmos 11K65M	-	Yu47121-1U	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-102	2441672.59	1972 Dec 21 0205:00	Kosmos 11K65M	-	Yu149-43	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1972-104	2441677.46	1972 Dec 25 2305:01	Kosmos 11K65M	-	53724-113	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-S03	2441682.50	1973	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1973-S04	2441682.50	1973	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1973-S05	2441682.50	1973	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1973-S06	2441682.50	1973	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1973-003	2441702.65	1973 Jan 20 0336:05	Kosmos 11K65M	-	Yu149-44	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-005	2441708.99	1973 Jan 26 1144:45	Kosmos 11K65M	-	Yu149-37	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-010	2441741.69	1973 Feb 28 0437:00	Kosmos 11K65M	-	Yu149-45	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-F03	2441827.89	1973 May 25 0915:34	Kosmos 11K65M	-	65024-109	0.800	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	Fail T+55s
1973-S569	2441831.50	1973 May 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1973-037	2441842.16	1973 Jun 8 1550:00	Kosmos 11K65M	-	53753-210	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-042	2441853.76	1973 Jun 20 0616:27	Kosmos 11K65M	-	53724-116	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-E01	2441859.56	1973 Jun 26 0122	Kosmos 11K65M	-	Yu47121-16	0.000	RVSN	OE	PE	G	Sat LEO O	Sergeev96	Polyot	Prop leak after scrub
1973-S570	2441882.50	1973 Jul 19	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1973-S07	2441912.16	1973 Aug 17 1545	Vertikal' K65UP	-	1	0.000	RVSN	TU	-	-	Test/Aeron?	BMLX	NK9906-01	-
1973-S576	2441912.50	1973 Aug 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1973-S571	2441919.50	1973 Aug 25	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1973-060	2441922.92	1973 Aug 28 1008:29	Kosmos 11K65M	-	65033-201	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-064	2441933.58	1973 Sep 8 0150:00	Kosmos 11K65M	-	65027-114	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-065	2441939.52	1973 Sep 14 0031:32	Kosmos 11K65M	-	53714-106	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-069	2441958.41	1973 Oct 2 2146:00	Kosmos 11K65M	-	53724-115	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-082	2441986.29	1973 Oct 30 1900:00	Kosmos 11K65M	-	53749-158	0.329	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1973-093	2442013.51	1973 Nov 27 0008:01	Kosmos 11K65M	-	53724-114	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-098	2442021.13	1973 Dec 4 1500:01	Kosmos 11K65M	-	53753-211	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-S572	2442034.50	1973 Dec 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1973-104	2442035.90	1973 Dec 19 0943:00	Kosmos 11K65M	-	53724-112	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1973-107	2442043.19	1973 Dec 26 1630:01	Kosmos 11K65M	-	65024-111	0.348	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-109	2442045.67	1973 Dec 29 0412:00	Kosmos 11K65M	-	65033-204	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-S03	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S04	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S05	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S06	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S07	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S08	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S09	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S10	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S11	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S12	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S13	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S14	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S15	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S16	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S17	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S18	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S19	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S20	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S21	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S22	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S23	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S24	2442047.50	1974	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1974-S25	2442058.11	1974 Jan 10 1439:39	Vertikal' K65UP	-	2	0.000	RVSN	RS	-	-	Ionos/Solar?	BMLX	-	-
1974-001	2442064.92	1974 Jan 17 1007:30	Kosmos 11K65M	-	53753-208	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-005	2442084.52	1974 Feb 6 0033:59	Kosmos 11K65M	-	65053-209	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-S155	2442140.88	1974 Apr 3 0900	Vertikal' K65UP	-	3	0.000	RVSN	RS	-	-	Ionos/Solar?	BMLX	-	-
1974-024	2442161.09	1974 Apr 23 1414:59	Kosmos 11K65M	-	65033-202	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-028	2442167.22	1974 Apr 29 1710:00	Kosmos 11K65M	-	Yu47121-15	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-034	2442184.96	1974 May 17 1100	Kosmos 11K65M	-	53749-167	0.335	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1974-035	2442188.76	1974 May 21 0615:59	Kosmos 11K65M	-	53719-152	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-044	2442217.04	1974 Jun 18 1300	Kosmos 11K65M	-	53714-165	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-045	2442219.88	1974 Jun 21 0903	Kosmos 11K65M	-	65053-205	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-048	2442226.15	1974 Jun 27 1539:50	Kosmos 11K65M	-	53749-160	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-S509	2442246.50	1974 Jul 18	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1974-S510	2442246.50	1974 Jul 18	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1974-S511	2442246.50	1974 Jul 18	R-14U	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	[Jun 3-8]
1974-069	2442289.12	1974 Aug 29 1454:59	Kosmos 11K65M	-	53719-154	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-071	2442302.24	1974 Sep 11 1740:23	Kosmos 11K65M	-	53719-151	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-072	2442310.12	1974 Sep 19 1457	Kosmos 11K65M	-	53753-206	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-S531	2442322.50	1974 Oct 2	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-S532	2442330.50	1974 Oct 10	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-076	2442331.98	1974 Oct 11 1129:59	Kosmos 11K65M	-	53721-251 (225?)	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-079	2442339.44	1974 Oct 18 2236:15	Kosmos 11K65M	-	53753-207	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-086	2442351.92	1974 Oct 31 1000	Kosmos 11K65M	-	53721-253	0.317	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1974-S533	2442363.50	1974 Nov 12	R-14	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-S534	2442380.50	1974 Nov 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-S535	2442390.50	1974 Dec 9	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-S536	2442399.50	1974 Dec 18	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1974-100	2442400.09	1974 Dec 18 1411:59	Kosmos 11K65M	-	53721-256	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1974-105	2442408.00	1974 Dec 26 1159:59	Kosmos 11K65M	-	53731-270	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S01	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S02	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S03	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S04	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S05	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S06	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S07	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S08	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S09	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S10	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S11	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S12	2442412.50	1975	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1975-S441	2442441.50	1975 Jan 29	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1975-008	2442449.05	1975 Feb 5 1315	Kosmos 11K65M	-	53753-212	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S439	2442449.50	1975 Feb 6	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1975-012	2442455.65	1975 Feb 12 0330	Kosmos 11K65M	-	53749-166	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-016	2442472.08	1975 Feb 28 1401:59	Kosmos 11K65M	-	53749-157	0.480	RVSN	OS	-	G	Sat LEO O	AK15,corrected	Polyot	AK15 has MT?
1975-S409	2442471.50	1975 Mar	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1975-S410	2442471.50	1975 Mar	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1975-022	2442499.10	1975 Mar 27 1430	Kosmos 11K65M	-	53721-268	0.320	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1975-028	2442513.83	1975 Apr 11 0757:14	Kosmos 11K65M	-	65033-203	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-033	2442521.83	1975 Apr 19 0758:55	Kosmos 11K65M	-	53731-279	0.360	RVSN	OS	-	G/OG	Sat LEO O	BASI3,75	Polyot	-
1975-034	2442525.38	1975 Apr 22 2110:37	Kosmos 11K65M	-	53731-274	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-045	2442560.52	1975 May 28 0025:01	Kosmos 11K65M	-	53731-272	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-F04	2442566.88	1975 Jun 3 0900	Kosmos 11K65M	-	53721-257	0.302	RVSN	OF	S1	G	Sat LEO O	AVMDS	Polyot	T+1:24 S1 failed
1975-062	2442597.54	1975 Jul 4 0056:07	Kosmos 11K65M	-	53721-259	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S13	2442599.65	1975 Jul 6 0335	Vertikal' K65UP	-	4	0.000	RVSN	TU	-	-	Aeron/Ionos?	RML	NK9906-01	-
1975-069	2442618.29	1975 Jul 24 1900:01	Kosmos 11K65M	-	53721-254	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S411	2442627.50	1975 Aug 3	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1975-074	2442639.06	1975 Aug 14 1329:21	Kosmos 11K65M	-	53731-288	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S14	2442657.69	1975 Sep 2 0440	Vertikal' K65UP	-	5	0.000	AN	SS	-	IKI/CLSR/Gdalevich,Ch.	Aeron/Solar X	SR17,457	SFLT23-161	-
1975-086	2442672.80	1975 Sep 17 0710	Kosmos 11K65M	-	53746-311	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-089	2442680.00	1975 Sep 24 1200	Kosmos 11K65M	-	53721-260	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-094	2442686.28	1975 Sep 30 1837:59	Kosmos 11K65M	-	53721-258	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-S412	2442708.50	1975 Oct 23	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-103	2442720.93	1975 Nov 4 1012:53	Kosmos 11K65M	-	53731-275	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-109	2442738.22	1975 Nov 21 1711	Kosmos 11K65M	-	53731-271	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-112	2442744.51	1975 Nov 28 0010:08	Kosmos 11K65M	-	53721-252	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1975-115	2442758.21	1975 Dec 11 1700:01	Kosmos 11K65M	-	53746-308	0.312	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1975-F07	2442766.08	1975 Dec 19 1400	Kosmos 11K65M	-	53721-263	0.650	RVSN	OF	S2	G	Sat LEO O	AK15	AVMNLJ	T+7:28 S2 failed
1976-S08	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S09	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S10	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S11	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S12	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S13	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S14	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S15	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S16	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S17	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-S18	2442777.50	1976	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1976-001	2442783.70	1976 Jan 6 0452:02	Kosmos 11K65M	-	53731-269	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-005	2442798.21	1976 Jan 20 1707:41	Kosmos 11K65M	-	53749-164	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-007	2442800.43	1976 Jan 22 2226:01	Kosmos 11K65M	-	53731-285	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-008	2442805.94	1976 Jan 28 1039:01	Kosmos 11K65M	-	53731-281	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-011	2442811.84	1976 Feb 3 0816	Kosmos 11K65M	-	53721-282	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-014	2442821.04	1976 Feb 12 1300:01	Kosmos 11K65M	-	53731-286	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-022	2442850.06	1976 Mar 12 1330	Kosmos 11K65M	-	53746-310	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-S19	2442867.88	1976 Mar 30 0900	Vertikal' K65UP	-	6	0.000	RVSN	TU	-	-	Ionos/Solar?	RML	NK9906-01	-
1976-031	2442874.68	1976 Apr 6 0414	Kosmos 11K65M	-	53731-280	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-037	2442897.06	1976 Apr 28 1330	Kosmos 11K65M	-	53746-301	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-049	2442927.13	1976 May 28 1500:01	Kosmos 11K65M	-	53716-328	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-051	2442932.44	1976 Jun 2 2230:15	Kosmos 11K65M	-	53731-283	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-054	2442945.05	1976 Jun 15 1319:01	Kosmos 11K65M	-	53731-277	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-056	2442949.17	1976 Jun 19 1600:01	Kosmos 11K65M	-	53731-276	0.950	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1976-061	2442958.84	1976 Jun 29 0812	Kosmos 11K65M	-	53731-284	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-067	2442968.38	1976 Jul 8 2108	Kosmos 11K65M	-	53716-324	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-069	2442975.05	1976 Jul 15 1311	Kosmos 11K65M	-	53746-304	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-070	2442980.93	1976 Jul 21 1020	Kosmos 11K65M	-	53731-266	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-075	2442986.72	1976 Jul 27 0521	Kosmos 11K65M	-	53746-307	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-076	2442987.00	1976 Jul 27 1200:02	Kosmos 11K65M	-	53746-316	0.302	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1976-078	2442989.34	1976 Jul 29 2002:44	Kosmos 11K65M	-	53716-329	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-098	2443050.79	1976 Sep 29 0704:01	Kosmos 11K65M	-	53716-333	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-S304	2443065.95	1976 Oct 14 1050	Vertikal' K65UP	-	7	0.000	RVSN	RS	-	-	Ionos/Solar?	KI16,394	SFLT23-161	-
1976-108	2443081.03	1976 Oct 29 1239:44	Kosmos 11K65M	-	53772-414	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-115	2443114.51	1976 Dec 2 0017	Kosmos 11K65M	-	53731-273	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-118	2443119.93	1976 Dec 7 1023	Kosmos 11K65M	-	53716-330	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-120	2443122.33	1976 Dec 9 2000	Kosmos 11K65M	-	53719-153	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-122	2443128.08	1976 Dec 15 1359:59	Kosmos 11K65M	-	53782-426	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-124	2443130.00	1976 Dec 17 1200	Kosmos 11K65M	-	53721-255	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-128	2443140.83	1976 Dec 28 0749:56	Kosmos 11K65M	-	65072-415	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1976-S20	2443141.74	1976 Dec 29 0540	Vertikal' K65UP	-	8	0.000	RVSN	TU	-	-	Ionos/Solar?	BMLX	NK9906-01	-
1977-S02	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S03	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S04	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S05	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S06	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S07	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S08	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S09	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S10	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S11	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S12	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S13	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S14	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S15	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-S16	2443143.50	1977	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-004	2443164.34	1977 Jan 20 2005	Kosmos 11K65M	-	53719-155	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-S17	2443169.50	1977 Jan 26	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1977-006	2443177.02	1977 Feb 2 1230	Kosmos 11K65M	-	53746-306	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-011	2443189.96	1977 Feb 15 1100	Kosmos 11K65M	-	53721-261	0.300	RVSN	OS	-	G	Sat LEO O	AVMDS	Polyot	-
1977-013	2443196.22	1977 Feb 21 1720	Kosmos 11K65M	-	47182-428	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-022	2443227.42	1977 Mar 24 2211	Kosmos 11K65M	-	53749-159	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-023	2443232.46	1977 Mar 29 2300	Kosmos 11K65M	-	53749-168	1.056	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-S476	2443235.50	1977 Apr 2	R-14U	-	-	0.000	RVSN	MU	-	-	Target	RML	-	-
1977-031	2443260.65	1977 Apr 27 0330	Kosmos 11K65M	-	53731-287	1.534	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-036	2443283.19	1977 May 19 1630:01	Kosmos 11K65M	-	53719-156	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-039	2443288.96	1977 May 25 1100	Kosmos 11K65M	-	53749-163	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-042	2443294.44	1977 May 30 2230	Kosmos 11K65M	-	53749-161	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-049	2443311.65	1977 Jun 17 0330	Kosmos 11K65M	-	47182-422	0.104	RVSN	OS	-	G/OG	Sat LEO O	AK15/RAEX	Polyot	-
1977-059	2443325.99	1977 Jul 1 1152	Kosmos 11K65M	-	53749-162	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-060	2443329.43	1977 Jul 4 2220	Kosmos 11K65M	-	53746-303	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-062	2443333.23	1977 Jul 8 1730	Kosmos 11K65M	-	53731-262	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-064	2443337.71	1977 Jul 13 0502	Kosmos 11K65M	-	53716-331	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-067	2443343.86	1977 Jul 19 0840	Kosmos 11K65M	-	53721-264	2.005	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-070	2443346.92	1977 Jul 22 1000	Kosmos 11K65M	-	53731-267	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-079	2443380.26	1977 Aug 24 1820	Kosmos 11K65M	-	53716-326	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-S18	2443385.88	1977 Aug 30 0900	Vertikal' K65UP	-	9	0.000	AN	SS	-	AN/	Solar UV/Solar X	RML	SFLT23-161	-
1977-087	2443400.33	1977 Sep 13 1959	Kosmos 11K65M	-	65082-436	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-096	2443411.19	1977 Sep 24 1630	Kosmos 11K65M	-	53731-278	1.020	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1977-101	2443437.92	1977 Oct 21 1005	Kosmos 11K65M	-	53716-325	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-103	2443441.73	1977 Oct 25 0525	Kosmos 11K65M	-	53746-309	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-S266	2443442.01	1977 Oct 25 1215	Vertikal' K65UP	-	10	0.000	RVSN	RS	-	CLSR/GICZ/IKI/Serafimov	Aeron/Ionos	ZiV1-78/KI19,576	SFLT23-161[1215Z]	SR19,291
1977-107	2443445.17	1977 Oct 28 1600	Kosmos 11K65M	-	53768-313	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-109	2443472.10	1977 Nov 24 1430	Kosmos 11K65M	-	53746-302	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-F06	2443476.80	1977 Nov 29 0705	Kosmos 11K65M	-	53721-265	0.870	RVSN	OF	S2	G	Sat LEO O	AK15	AVMNLJ	T+2:17 S2 fail
1977-111	2443485.96	1977 Dec 8 1100	Kosmos 11K65M	-	65068-308	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-116	2443491.16	1977 Dec 13 1553	Kosmos 11K65M	-	53716-332	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-119	2443493.68	1977 Dec 16 0425	Kosmos 11K65M	-	53746-305	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-122	2443501.18	1977 Dec 23 1624	Kosmos 11K65M	-	53716-322	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1977-S19	2443505.12	1977 Dec 27 1455	Vertikal' K65UP	-	11	0.000	RVSN	TU	-	-	Ionos?	RML	NK9906-01	-
1978-S01	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S02	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S03	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S04	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S05	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S06	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S07	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S08	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-S09	2443508.50	1978	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-005	2443519.37	1978 Jan 10 2051	Kosmos 11K65M	-	53716-319	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-007	2443525.64	1978 Jan 17 0326	Kosmos 11K65M	-	53716-327	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-019	2443557.19	1978 Feb 17 1633	Kosmos 11K65M	-	53746-312	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-022	2443567.78	1978 Feb 28 0643	Kosmos 11K65M	-	53716-323	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-028	2443583.16	1978 Mar 15 1557	Kosmos 11K65M	-	53746-315	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-031	2443595.56	1978 Mar 28 0130	Kosmos 11K65M	-	53746-314	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-034	2443599.08	1978 Mar 31 1401	Kosmos 11K65M	-	53768-307	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-046	2443640.96	1978 May 12 1100	Kosmos 11K65M	-	53746-318	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-049	2443646.11	1978 May 17 1439	Kosmos 11K65M	-	53798-316	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-053	2443652.21	1978 May 23 1657	Kosmos 11K65M	-	53768-310	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-S12	2443659.36	1978 May 30 2036	Vertikal' K65UP	-	12	0.000	RVSN	TF	U	-	Ionos?	RML	NK9906-01	-
1978-056	2443667.42	1978 Jun 7 2200	Kosmos 11K65M	-	53716-321	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-063	2443680.89	1978 Jun 21 0927	Kosmos 11K65M	-	53716-317	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-S10	2443689.50	1978 Jul?	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1978-074	2443716.70	1978 Jul 27 0449	Kosmos 11K65M	-	53716-313	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-S13	2443768.27	1978 Sep 16 1835	Vertikal' K65UP	-	13	0.000	RVSN	TU	-	-	Ionos?	RML	NK9906-01	-
1978-S11	2443781.50	1978 Oct	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	RML	NK9906-01	-
1978-091	2443785.66	1978 Oct 4 0349	Kosmos 11K65M	-	53782-429	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-099	2443806.29	1978 Oct 24 1900	Kosmos 11K65M	-	65055-106	1.005	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1978-S227	2443816.00	1978 Nov 3 1205	Vertikal' K65UP	-	14	0.000	RVSN	RS	-	-	Aeron/Ionos	RML	KI29-576 diff lt	-
1978-105	2443829.41	1978 Nov 16 2145	Kosmos 11K65M	-	53755-111	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-S335	2443839.50	1978 Nov 27	R-14	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1978-109	2443848.26	1978 Dec 5 1812	Kosmos 11K65M	-	53716-320	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-115	2443858.05	1978 Dec 15 1319	Kosmos 11K65M	-	53782-408	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-119	2443863.36	1978 Dec 20 2043	Kosmos 11K65M	-	47182-425	0.800	RVSN	OF40	S2P2	-	Sat LEO O	AK15/RAEX	Polyot	Early shutdown
1978-120	2443865.42	1978 Dec 22 2200	Kosmos 11K65M	-	65068-305	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1978-122	2443869.06	1978 Dec 26 1330	Kosmos 11K65M	-	53782-430	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-S03	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S04	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S05	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S06	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S07	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S08	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S09	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S10	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S11	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S12	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S13	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-S14	2443873.50	1979	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-003	2443890.23	1979 Jan 16 1737	Kosmos 11K65M	-	47182-437	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-010	2443912.92	1979 Feb 8 1000	Kosmos 11K65M	-	53782-417	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-020	2443932.21	1979 Feb 27 1700	Kosmos 11K65M	-	47155-107	1.042	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1979-024	2443947.62	1979 Mar 15 0258	Kosmos 11K65M	-	47168-312	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-026	2443953.68	1979 Mar 21 0413	Kosmos 11K65M	-	47172-413	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-028	2443970.76	1979 Apr 7 0620	Kosmos 11K65M	-	65082-424	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-030	2443975.41	1979 Apr 11 2151	Kosmos 11K65M	-	53782-423	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-046	2444025.25	1979 May 31 1758	Kosmos 11K65M	-	65082-418	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-051	2444031.94	1979 Jun 7 1030	Kosmos 11K65M	-	65055-109	0.425	RVSN	OS	-	G/OG	Sat LEO O	ESA-SP160-325	Polyot	-
1979-060	2444053.34	1979 Jun 28 2009	Kosmos 11K65M	-	53768-304	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-063	2444060.85	1979 Jul 6 0820	Kosmos 11K65M	-	65075-124	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-065	2444066.15	1979 Jul 11 1541	Kosmos 11K65M	-	47155-104	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-078	2444113.54	1979 Aug 28 0055	Kosmos 11K65M	-	47182-419	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-084	2444142.38	1979 Sep 25 2100	Kosmos 11K65M	-	47147-243	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-S16	2444142.64	1979 Sep 26 0320	Vertikal' K65UP	-	15	0.000	AN	SS	-	AN/	Solar UV/Solar X	SFLT23-161	-	-
1979-089	2444158.19	1979 Oct 11 1636	Kosmos 11K65M	-	47172-407	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-090	2444163.01	1979 Oct 16 1217	Kosmos 11K65M	-	47172-410	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1979-S307	2444165.50	1979 Oct 19	R-14	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1979-S17	2444171.07	1979 Oct 24 1340	Vertikal' K65UP	-	16	0.000	RVSN	TU	-	-	Ionos/Solar?	RML	NK9906-01	-
1979-S308	2444172.50	1979 Oct 26	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1979-S15	2444177.50	1979 Nov	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1979-096	2444178.84	1979 Nov 1 0805	Kosmos 11K65M	-	53755-105	0.995	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1979-100	2444212.88	1979 Dec 5 0900	Kosmos 11K65M	-	47168-309	0.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S03	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-S04	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-S05	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-S06	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-S07	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-S08	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-S09	2444238.50	1980	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1980-003	2444253.33	1980 Jan 14 1949	Kosmos 11K65M	-	65067-248	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-007	2444264.36	1980 Jan 25 2036	Kosmos 11K65M	-	47167-249	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-012	2444281.48	1980 Feb 11 2332	Kosmos 11K65M	-	53772-402	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-022	2444316.40	1980 Mar 17 2137	Kosmos 11K65M	-	65098-314	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-023	2444325.81	1980 Mar 27 0730	Kosmos 11K65M	-	65098-311	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-026	2444332.82	1980 Apr 3 0740	Kosmos 11K65M	-	47198-315	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S11	2444352.61	1980 Apr 23 0245	Vertikal' K65UP	-	17	0.000	RVSN	TU	-	-	Aeron/Ionos?	BMLX	NK9906-01	-
1980-037	2444374.04	1980 May 14 1300	Kosmos 11K65M	-	53783-456	0.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-039	2444379.89	1980 May 20 0921	Kosmos 11K65M	-	47175-116	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-047	2444396.96	1980 Jun 6 1100	Kosmos 11K65M	-	47168-306	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S298	2444407.50	1980 Jun 17	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1980-S299	2444420.50	1980 Jun 30	R-14U	-	-	0.000	RVSN	MU	-	-	Test	RML	-	-
1980-056	2444421.80	1980 Jul 1 0712	Kosmos 11K65M	-	47182-416	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-058	2444429.53	1980 Jul 9 0042	Kosmos 11K65M	-	65072-409	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S292	2444437.50	1980 Jul 17	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1980-S293	2444451.50	1980 Jul 31	R-14U	-	-	0.000	RVSN	MU	-	-	Test	BMLX	-	-
1980-067	2444451.93	1980 Jul 31 1020	Kosmos 11K65M	-	47175-122	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S12	2444486.31	1980 Sep 3 1920	Vertikal' K65UP	-	18	0.000	RVSN	TU	-	-	Aeron/Ionos?	RML	NK9906-01	-
1980-083	2444527.36	1980 Oct 14 2041	Kosmos 11K65M	-	47172-401	0.434	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S10	2444573.50	1980 Dec	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	RML	NK9906-01	-
1980-097	2444578.68	1980 Dec 5 0423	Kosmos 11K65M	-	65098-317	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-S222	2444578.58	1980 Dec 5 0200	K65M-RB	-	K65M-RB4	0.000	RVSN	TS	-	-	Reentry Test	RPCB	JBIS60,90	-
1980-099	2444584.37	1980 Dec 10 2053	Kosmos 11K65M	-	65083-464	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1980-102	2444597.45	1980 Dec 23 2248	Kosmos 11K65M	-	47198-318	0.480	RVSN	OS75	S2U2	G	Sat LEO O	AK15/RAEX	Polyot	Orbit slightly low
1980-S13	2444597.73	1980 Dec 24 0530	Vertikal' K65UP	-	19	0.000	RVSN	TU	-	-	Aeron/Ionos?	RML	NK9906-01	-
1981-S05	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S06	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S07	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S08	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S16	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S09	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S10	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S11	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S12	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S13	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S14	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-S15	2444604.50	1981	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1981-003	2444620.88	1981 Jan 16 0900	Kosmos 11K65M	-	53798-319	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-006	2444625.85	1981 Jan 21 0829	Kosmos 11K65M	-	65082-427	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-011	2444641.83	1981 Feb 6 0800	Kosmos 11K65M	-	53793-478	0.995	RVSN	OS	-	G	Sat LEO O	NK9521-43	Polyot	-
1981-013	2444648.26	1981 Feb 12 1821	Kosmos 11K65M	-	65098-320	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-022	2444669.98	1981 Mar 6 1131	Kosmos 11K65M	-	53767-247	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-033	2444704.00	1981 Apr 9 1200	Kosmos 11K65M	-	53798-322	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-041	2444732.06	1981 May 7 1321	Kosmos 11K65M	-	47198-321	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-053	2444760.15	1981 Jun 4 1541	Kosmos 11K65M	-	65098-323	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-074	2444822.99	1981 Aug 6 1149	Kosmos 11K65M	-	65055-112	0.480	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-077	2444828.74	1981 Aug 12 0546	Kosmos 11K65M	-	47198-324	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-S17	2444844.61	1981 Aug 28 0240	Vertikal' K65UP	-	20	0.000	AN	SS	-	AN/	Solar UV/Solar X	JBIS35,271	ESA-SP493-377	-
1981-084	2444845.18	1981 Aug 28 1618	Kosmos 11K65M	-	47155-101	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-087	2444851.96	1981 Sep 4 1106	Kosmos 11K65M	-	53755-108	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1981-091	2444865.65	1981 Sep 18 0334	Kosmos 11K65M	-	47175-113	0.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-S157	2444866.25	1981 Sep 18 1759:58	Vertikal' K65UP	-	21	0.000	RVSN	RS	-	IKI/Managadze	Active Plasma	PlanSpaSci36,399	KI25,155	[Or 1985?]
1981-095	2444870.83	1981 Sep 23 0800	Kosmos 11K65M	-	53719-527	0.570	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-097	2444876.38	1981 Sep 28 2100	Kosmos 11K65M	-	53775-114	1.045	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-115	2444928.85	1981 Nov 20 0830	Kosmos 11K65M	-	47193-468	0.425	RVSN	OS	-	G/OG	Sat LEO O	AK15/RAEX	Polyot	-
1981-116	2444937.26	1981 Nov 28 1808	Kosmos 11K65M	-	65093-121	0.480	RVSN	OS75	S2P	G	Sat LEO O	AK15/RAEX	Polyot	Overburn
1981-120	2444955.96	1981 Dec 17 1100	Kosmos 11K65M	-	53775-120	0.420	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1981-S187	2444960.28	1981 Dec 21 1837	Vertikal' K65UP	-	22	0.000	RVSN	RS	-	-	Aeron/Ionos	KI24-941	KI22-884	-
1982-S09	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S10	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S11	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S12	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S13	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S14	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S15	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S16	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S17	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S18	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S19	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S20	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S21	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S22	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S23	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S24	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-S25	2444969.50	1982	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1982-001	2444977.15	1982 Jan 7 1538	Kosmos 11K65M	-	53755-102	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-003	2444983.83	1982 Jan 14 0751	Kosmos 11K65M	-	53767-250	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-007	2444998.96	1982 Jan 29 1100	Kosmos 11K65M	-	65075-115	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-012	2445018.41	1982 Feb 17 2156	Kosmos 11K65M	-	65067-261	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-F01	2445033.20	1982 Mar 4 1641	Kosmos 11K65M	-	53739-530	1.040	UNKS	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	Fail T+49s
1982-024	2445053.32	1982 Mar 24 1947	Kosmos 11K65M	-	53767-253	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-026	2445059.88	1982 Mar 31 0900	Kosmos 11K65M	-	53747-241	0.434	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-030	2445067.51	1982 Apr 8 0015	Kosmos 11K65M	-	65047-242	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-034	2445080.57	1982 Apr 21 0140	Kosmos 11K65M	-	53767-256	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-S300	2445087.50	1982 Apr 28	R-14U	-	-	0.000	RVSN	MS	-	-	Target	RML	-	-
1982-037	2445087.62	1982 Apr 28 0252:00	Kosmos 11K65M	-	47175-125	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-040	2445096.25	1982 May 6 1807	Kosmos 11K65M	-	53775-123	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-051	2445121.69	1982 Jun 1 0437	Kosmos 11K65M	-	47167-258	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-054	2445124.40	1982 Jun 3 2130	K65M-RB	-	-	1.074	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1982-055	2445127.22	1982 Jun 6 1710	Kosmos 11K65M	-	65067-257	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-061	2445139.00	1982 Jun 18 1158	Kosmos 11K65M	-	53783-460	0.800	UNKS	OF40	S2R	G	Sat LEO O	AK15/RAEX	Polyot	S2 ft restart
1982-066	2445150.41	1982 Jun 29 2145:41	Kosmos 11K65M	-	47183-457	0.838	UNKS	OS	-	G	Sat LEO O	NK9713-61	Polyot	-
1982-S26	2445153.27	1982 Jul 2 1830	Vertikal' K65UP	-	23	0.000	RVSN	TU	-	-	Ionos?	RML	NK9906-01	-
1982-069	2445157.91	1982 Jul 7 0947	Kosmos 11K65M	-	65093-473	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-073	2445171.77	1982 Jul 21 0631	Kosmos 11K65M	-	65055-103	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-076	2445180.32	1982 Jul 29 1940	Kosmos 11K65M	-	53793-472	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-F05	2445212.33	1982 Aug 30 1955	Kosmos 11K65M	-	65047-236	0.800	UNKS	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	S2 f T+9:28
1982-102	2445261.75	1982 Oct 19 0558	Kosmos 11K65M	-	53734-137	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-104	2445264.08	1982 Oct 21 1400	Kosmos 11K65M	-	47193-471	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-109	2445284.76	1982 Nov 11 0614	Kosmos 11K65M	-	47167-252	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1982-F07	2445297.96	1982 Nov 24 1100	Kosmos 11K65M	-	47183-465	0.480	UNKS	OF	S1P	G	Sat LEO O	Ak15	AVMNLJ	S1 f T+2:02
1982-S27	2445321.04	1982 Dec 17 1303	Vertikal' K65UP	-	24	0.000	RVSN	TU	-	-	Ionos?	RML	NK9906-01	-
1982-121	2445333.00	1982 Dec 29 1200:02	Kosmos 11K65M	-	53783-454	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-S03	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S04	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S05	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S06	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S07	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S08	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S09	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S10	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S11	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S12	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S13	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S14	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S15	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S16	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S17	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-S18	2445334.50	1983	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1983-001	2445347.08	1983 Jan 12 1402	Kosmos 11K65M	-	65093-479	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-002	2445353.60	1983 Jan 19 0225	Kosmos 11K65M	-	53793-481	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-F01	2445360.00	1983 Jan 25 1200	Kosmos 11K65M	-	47193-480	1.040	UNKS	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	Fail T+1:28
1983-017	2445409.44	1983 Mar 15 2230	K65M-RB	-	-	1.074	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-021	2445418.37	1983 Mar 24 2055:50	Kosmos 11K65M	-	53739-548	0.840	UNKS	OS	-	G	Sat LEO O	PL38	Polyot	-
1983-023	2445423.55	1983 Mar 30 0110	Kosmos 11K65M	-	65019-522	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-027	2445431.00	1983 Apr 6 1200	Kosmos 11K65M	-	53719-512	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-031	2445437.26	1983 Apr 12 1820	Kosmos 11K65M	-	65019-519	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-034	2445444.00	1983 Apr 19 1200	Kosmos 11K65M	-	47119-520	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-042	2445460.62	1983 May 6 0300	Kosmos 11K65M	-	65019-513	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-046	2445474.00	1983 May 19 1200:00	Kosmos 11K65M	-	47119-511	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-048	2445478.62	1983 May 24 0259	Kosmos 11K65M	-	47139-541	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-049	2445480.71	1983 May 26 0500	Kosmos 11K65M	-	65083-458	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-069	2445521.52	1983 Jul 6 0031:00	Kosmos 11K65M	-	47183-459	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-079	2445550.03	1983 Aug 3 1240	Kosmos 11K65M	-	53783-463	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-091	2445577.77	1983 Aug 31 0630	Kosmos 11K65M	-	47139-547	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-101	2445607.96	1983 Sep 30 1100	Kosmos 11K65M	-	65093-482	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-102	2445613.00	1983 Oct 5 1200	Kosmos 11K65M	-	65039-540	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-103	2445619.51	1983 Oct 12 0020	Kosmos 11K65M	-	65039-543	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-S19	2445627.68	1983 Oct 20 0425	Vertikal' K65UP	-	25	0.000	AN	SS	-	AN/	Solar UV/Solar X	JBIS38,39	NK9906-01	Or R-5?
1983-108	2445634.22	1983 Oct 26 1720	Kosmos 11K65M	-	47122-331	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-111	2445650.02	1983 Nov 11 1230:00	Kosmos 11K65M	-	65093-470	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-120	2445676.76	1983 Dec 8 0613	Kosmos 11K65M	-	65019-528	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1983-125	2445695.92	1983 Dec 27 1000	K65M-RB	-	-	1.074	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1984-S05	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	KY60	-
1984-S06	2445699.50	1984?	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	KY60	-
1984-S07	2445699.50	1984?	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	KY60	-
1984-S08	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S09	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S10	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S11	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S12	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S13	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S14	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S15	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S16	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S17	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S18	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S19	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S20	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S21	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S22	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S23	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S24	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S25	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S26	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S27	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-S28	2445699.50	1984	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1984-001	2445705.34	1984 Jan 5 2009	Kosmos 11K65M	-	47119-529	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-003	2445711.26	1984 Jan 11 1808	Kosmos 11K65M	-	65039-546	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-007	2445726.00	1984 Jan 26 1200	Kosmos 11K65M	-	53793-469	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-010	2445733.23	1984 Feb 2 1738	Kosmos 11K65M	-	47139-532	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-019	2445752.15	1984 Feb 21 1536	Kosmos 11K65M	-	65039-537	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-S29	2445759.50	1984 Mar?	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	RML	NK9906-01	-
1984-043	2445831.76	1984 May 11 0619	Kosmos 11K65M	-	53739-533	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-046	2445838.11	1984 May 17 1443:26	Kosmos 11K65M	-	47139-538	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-052	2445849.41	1984 May 28 2152:00	Kosmos 11K65M	-	65039-531	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-056	2445859.98	1984 Jun 8 1128	Kosmos 11K65M	-	53739-542	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-062	2445873.32	1984 Jun 21 1940:03	Kosmos 11K65M	-	53719-521	0.864	UNKS	OS	-	G	Sat LEO O	PL38	Polyot	-
1984-067	2445878.71	1984 Jun 27 0459	Kosmos 11K65M	-	65039-549	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-068	2445880.05	1984 Jun 28 1310:00	Kosmos 11K65M	-	47134-133	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-S99	2445887.35	1984 Jul 5 2020	K65M-RB	-	-	0.000	UNKS	TF	U	-	Reentry Test	RPCB	MIKBOR	-
1984-100	2445957.16	1984 Sep 13 1554:08	Kosmos 11K65M	-	53739-539	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-104	2445970.90	1984 Sep 27 0930:00	Kosmos 11K65M	-	53796-180	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-109	2445985.11	1984 Oct 11 1443	Kosmos 11K65M	-	53734-125	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-118	2446019.78	1984 Nov 15 0640	Kosmos 11K65M	-	47139-124	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1984-126	2446053.66	1984 Dec 19 0355	K65M-RB	-	-	1.074	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1984-127	2446055.04	1984 Dec 20 1300:00	Kosmos 11K65M	-	47134-127	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-S01	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S02	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S03	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S04	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S05	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S06	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S07	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S08	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S09	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S10	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S11	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S12	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S13	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S14	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S15	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S16	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-S17	2446065.50	1985	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1985-006	2446083.24	1985 Jan 17 1746:00	Kosmos 11K65M	-	65034-138	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-011	2446098.32	1985 Feb 1 1936:26	Kosmos 11K65M	-	47144-445	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-018	2446124.04	1985 Feb 27 1256:00	Kosmos 11K65M	-	47134-139	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-022	2446138.55	1985 Mar 14 0109	Kosmos 11K65M	-	53744-146	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-023	2446145.51	1985 Mar 21 0008	Kosmos 11K65M	-	53734-134	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-S69	2446172.44	1985 Apr 16 2230	K65M-RB	-	-	0.000	UNKS	TS	-	-	Reentry Test	RPCB	MIKBOR	-
1985-041	2446215.55	1985 May 30 0114:50	Kosmos 11K65M	-	47144-148	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-050	2446235.98	1985 Jun 19 1130:00	Kosmos 11K65M	-	65044-147	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-079	2446312.80	1985 Sep 4 0705	Kosmos 11K65M	-	65011-241	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-089	2446340.88	1985 Oct 2 0900	Kosmos 11K65M	-	65044-153	1.045	UNKS	OS	-	G	Sat LEO O	TLE/AVM	Polyot	-
1985-F04	2446362.23	1985 Oct 23 1724	Kosmos 11K65M	-	65034-135	0.800	UNKS	OF	U	G	Sat LEO O	AK15/RAEX	Polyot	Details unknown
1985-110	2446398.05	1985 Nov 28 1312:41	Kosmos 11K65M	-	47122-346	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1985-116	2446418.87	1985 Dec 19 0846:55	Kosmos 11K65M	-	65022-348	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-S01	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S02	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S03	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S04	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S05	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S06	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S07	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S08	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S09	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-S10	2446430.50	1986	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1986-002	2446439.62	1986 Jan 9 0248:00	Kosmos 11K65M	-	47122-337	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-005	2446446.98	1986 Jan 16 1138:19	Kosmos 11K65M	-	53744-152	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-008	2446454.29	1986 Jan 23 1852:58	Kosmos 11K65M	-	47122-334	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-030	2446538.38	1986 Apr 17 2102:00	Kosmos 11K65M	-	53726-198	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-037	2446574.04	1986 May 23 1254:22	Kosmos 11K65M	-	53772-362	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-042	2446587.66	1986 Jun 6 0357:00	Kosmos 11K65M	-	47172-364	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-047	2446600.34	1986 Jun 18 2003:49	Kosmos 11K65M	-	53722-341	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-052	2446627.68	1986 Jul 16 0421:00	Kosmos 11K65M	-	53722-365	0.800	UNKS	OS75	FF	-	Sat LEO O	AK15/RAEX	Polyot	Fairing incomplete sep?
1986-067	2446676.88	1986 Sep 3 0900:00	Kosmos 11K65M	-	65022-342	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-070	2446683.57	1986 Sep 10 0145:00	Kosmos 11K65M	-	47196-164	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-S11	2446713.50	1986 Oct 10	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	RML	NK9906-01	-
1986-083	2446731.03	1986 Oct 27 1240:00	Kosmos 11K65M	-	53748-411	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-086	2446747.76	1986 Nov 13 0610:25	Kosmos 11K65M	-	53748-414	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-092	2446755.58	1986 Nov 21 0200:00	Kosmos 11K65M	-	53796-168	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-093	2446759.41	1986 Nov 24 2143:13	Kosmos 11K65M	-	47122-349	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-100	2446782.21	1986 Dec 17 1702:32	Kosmos 11K65M	-	53772-353	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1986-S118	2446789.54	1986 Dec 25 0100	K65M-RB	-	-	0.000	UNKS	TS	-	-	Reentry Test	RPCB	MIKBOR	-
1987-S01	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S02	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S03	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S04	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S05	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S06	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S07	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S08	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S09	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S10	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S11	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S12	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S13	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S14	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S15	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S16	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S17	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S18	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S19	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S20	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S21	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S22	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S23	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S24	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S25	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S26	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-S27	2446795.50	1987	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1987-006	2446816.88	1987 Jan 21 0910:00	Kosmos 11K65M	-	47172-361	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-007	2446817.79	1987 Jan 22 0700	Kosmos 11K65M	-	65048-415	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-009	2446824.76	1987 Jan 29 0614:57	Kosmos 11K65M	-	65096-172	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-017	2446845.08	1987 Feb 18 1353:20	Kosmos 11K65M	-	65072-354	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-049	2446956.11	1987 Jun 9 1445:00	Kosmos 11K65M	-	47196-176	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-051	2446963.24	1987 Jun 16 1751:00	Kosmos 11K65M	-	65026-184	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-054	2446969.82	1987 Jun 23 0737:58	Kosmos 11K65M	-	65026-202	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-057	2446983.42	1987 Jul 6 2159:27	Kosmos 11K65M	-	53796-177	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-061	2446991.08	1987 Jul 14 1400:01	Kosmos 11K65M	-	47196-161	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-S131	2447034.39	1987 Aug 26 2120	K65M-RB	-	-	0.000	UNKS	TS	-	-	Reentry Test	RPCB	MIKBOR	-
1987-087	2447083.02	1987 Oct 14 1235:33	Kosmos 11K65M	-	53726-186	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-098	2447131.09	1987 Dec 1 1415:45	Kosmos 11K65M	-	65035-621	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-103	2447145.06	1987 Dec 15 1330:00	Kosmos 11K65M	-	53726-183	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1987-106	2447153.35	1987 Dec 23 2022:40	Kosmos 11K65M	-	53711-281	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-S03	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S04	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S05	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S06	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S07	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S08	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S09	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S10	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S11	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S12	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S13	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S14	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S15	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S16	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S17	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S18	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S19	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S20	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S21	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S22	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S23	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S24	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S25	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S26	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S27	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S28	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S29	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S30	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-S31	2447160.50	1988	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1988-016	2447231.51	1988 Mar 11 0018:00	Kosmos 11K65M	-	47161-263	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-023	2447243.09	1988 Mar 22 1407:23	Kosmos 11K65M	-	47111-221	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-029	2447257.11	1988 Apr 5 1441:00	Kosmos 11K65M	-	47126-188	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-S99	2447333.58	1988 Jun 21 0200	K65M-RB	-	-	0.000	UNKS	TS	-	-	Reentry Test	RPCB	NK9906-11	-
1988-053	2447334.18	1988 Jun 21 1626:00	Kosmos 11K65M	-	47126-191	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-060	2447356.99	1988 Jul 14 1140:00	Kosmos 11K65M	-	47111-224	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-062	2447361.44	1988 Jul 18 2228:11	Kosmos 11K65M	-	65096-175	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1988-065	2447370.97	1988 Jul 28 1120:00	Kosmos 11K65M	-	65026-187	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-S01	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S02	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S03	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S04	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S05	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S06	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S07	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S08	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S09	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S10	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S11	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S12	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S13	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S14	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S15	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S16	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S17	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S18	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S19	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1989-S20	2447526.50	1989	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-005	2447553.15	1989 Jan 26 1536:00	Kosmos 11K65M	-	65079-812	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-012	2447572.21	1989 Feb 14 1700:00	Kosmos 11K65M	-	53726-192	0.810	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-017	2447579.65	1989 Feb 22 0328:49	Kosmos 11K65M	-	47111-236	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-025	2447610.07	1989 Mar 24 1338:00	Kosmos 11K65M	-	65011-232	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-028	2447621.28	1989 Apr 4 1836:52	Kosmos 11K65M	-	47126-194	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-042	2447684.72	1989 Jun 7 0512:35	Kosmos 11K65M	-	53711-225	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-045	2447692.02	1989 Jun 14 1230:00	Kosmos 11K65M	-	53761-249	0.570	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1989-050	2447712.14	1989 Jul 4 1521:36	Kosmos 11K65M	-	65061-250	0.822	UNKS	OS	-	G	Sat LEO O	PL38	Polyot	-
1989-059	2447732.83	1989 Jul 25 0748:44	Kosmos 11K65M	-	65061-256	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-S06	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S07	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S08	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S09	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S10	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S11	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S12	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S13	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S14	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S15	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S16	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S17	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S18	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S19	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S20	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S21	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S22	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S23	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S24	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-S25	2447891.50	1990	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1990-004	2447910.04	1990 Jan 18 1252:00	Kosmos 11K65M	-	65061-247	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-012	2447929.19	1990 Feb 6 1630:00	Kosmos 11K65M	-	53711-237	0.810	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-017	2447950.37	1990 Feb 27 2059:42	Kosmos 11K65M	-	53711-228	0.825	UNKS	OS	-	G	Sat LEO O	PL38	Polyot	-
1990-023	2447970.52	1990 Mar 20 0025:22	Kosmos 11K65M	-	47161-245	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-029	2447987.63	1990 Apr 6 0313:00	Kosmos 11K65M	-	65061-259	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-036	2448002.28	1990 Apr 20 1841:08	Kosmos 11K65M	-	53726-195	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-038	2448007.04	1990 Apr 25 1300:00	Kosmos 11K65M	-	65061-253	1.045	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-078	2448132.16	1990 Aug 28 1545:00	Kosmos 11K65M	-	53711-240	0.585	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-083	2448148.75	1990 Sep 14 0559:07	Kosmos 11K65M	-	65048-403	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1990-111	2448235.83	1990 Dec 10 0754:59	Kosmos 11K65M	-	47126-203	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-S03	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	KY60	-
1991-S04	2448256.50	1991?	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	KY60	-
1991-S05	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S06	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S07	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S08	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S09	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S10	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S11	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S12	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S13	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S14	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S15	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-S16	2448256.50	1991	K65M-R	-	-	0.000	RVSN	MU	-	-	Reentry Test	NK9906-01	-	-
1991-006	2448286.00	1991 Jan 29 1159:58	Kosmos 11K65M	-	53744-158	1.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-007	2448292.61	1991 Feb 5 0236:45	Kosmos 11K65M	-	47148-407	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-009	2448299.61	1991 Feb 12 0244:00	Kosmos 11K65M	-	47187-204	0.480	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-013	2448313.70	1991 Feb 26 0453:06	Kosmos 11K65M	-	47168-254	0.800	UNKS	OS	-	G	Sat LEO O	NK9910-36	Polyot	-
1991-019	2448328.31	1991 Mar 12 1929:04	Kosmos 11K65M	-	65048-406	0.826	UNKS	OS	-	G	Sat LEO O	PL38	Polyot	-
1991-021	2448335.10	1991 Mar 19 1430:00	Kosmos 11K65M	-	53448-417	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-029	2448362.81	1991 Apr 16 0721:42	Kosmos 11K65M	-	47148-401	0.800	UNKS	OS	-	G	Sat LEO O	NK9910-34	Polyot	-
1991-041	2448418.74	1991 Jun 11 0541:59	Kosmos 11K65M	-	47159-819	0.800	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-F02	2448433.06	1991 Jun 25 1320:00	Kosmos 11K65M	-	65061-262	1.040	UNKS	OF	S2	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1991-059	2448491.02	1991 Aug 22 1235:46	Kosmos 11K65M	-	53778-429	0.800	UNKS	OS	-	G	Sat LEO O	NK9910-34	Polyot	-
1991-072	2448540.08	1991 Oct 10 1400:00	Kosmos 11K65M	-	53778-420	0.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Polyot	-
1991-081	2448587.65	1991 Nov 27 0330:26	Kosmos 11K65M	-	65048-409	0.800	UNKS	OS	-	G	Sat LEO O	NK9910-34	Polyot	-
1992-S03	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S04	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S05	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S06	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S07	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S08	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-S09	2448621.50	1992	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1992-008	2448670.42	1992 Feb 17 2205:08	Kosmos 11K65M	-	65078-418	0.800	UNKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1992-012	2448691.44	1992 Mar 9 2235:59	Kosmos 11K65M	-	53778-423	0.800	UNKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1992-020	2448727.80	1992 Apr 15 0717:43	Kosmos 11K65M	-	47178-419	0.800	UNKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1992-030	2448776.54	1992 Jun 3 0050:30	Kosmos 11K65M	-	53742-114	0.480	UNKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1992-036	2448805.34	1992 Jul 1 2016:22	Kosmos 11K65M	-	65072-427	0.800	UNKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1992-053	2448846.74	1992 Aug 12 0544:01	Kosmos 11K65M	-	65078-421	0.800	VKSR	OS	-	G	Sat LEO O	NK9317-22	Polyot	-
1992-073	2448924.94	1992 Oct 29 1040:33	Kosmos 11K65M	-	65078-424	0.800	VKSR	OS	-	G	Sat LEO O	NK9305-11	Polyot	-
1993-S04	2448987.50	1993	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1993-S05	2448987.50	1993	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1993-S06	2448987.50	1993	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1993-S07	2448987.50	1993	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1993-S08	2448987.50	1993	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1993-001	2448999.97	1993 Jan 12 1110:17	Kosmos 11K65M	-	53778-426	0.800	VKSR	OS	-	G	Sat LEO O	AVMP	Polyot	-
1993-008	2449027.62	1993 Feb 9 0256:56	Kosmos 11K65M	-	47178-428	0.800	VKSR	OS	-	G	Sat LEO O	NK9910-34	Polyot	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-020	2449079.29	1993 Apr 1 1857:26	Kosmos 11K65M	-	47178-431	0.800	VKSR	OS	-	G	Sat LEO O	NK9317-20	Polyot	-
1993-036	2449154.68	1993 Jun 16 0417:00	Kosmos 11K65M	-	47135-601	0.800	VKSR	OS	-	G	Sat LEO O	NK9317-20	Polyot	-
1993-067	2449287.04	1993 Oct 26 1300:04	Kosmos 11K65M	-	65065-624	0.750	VKSR	OS	-	G	Sat LEO O	NK9322-23	Polyot	-
1993-070	2449294.01	1993 Nov 2 1210:09	Kosmos 11K65M	-	53735-608	0.800	VKSR	OS	-	G	Sat LEO O	AVMP	Polyot	-
1994-S01	2449352.50	1994	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1994-S02	2449352.50	1994	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1994-024	2449468.59	1994 Apr 26 0214:15	Kosmos 11K65M	-	53735-614	0.800	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMP	-
1994-041	2449547.72	1994 Jul 14 0513:30	Kosmos 11K65M	-	65035-612	0.842	VKSR	OS	-	G	Sat LEO O	NK9501-24	PL38	-
1994-045	2449567.33	1994 Aug 2 2000:01	Kosmos 11K65M	-	47135-613	0.900	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMP	-
1994-061	2449623.08	1994 Sep 27 1400:00	Kosmos 11K65M	-	47135-616	0.570	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMP	-
1994-083	2449706.72	1994 Dec 20 0511:01	Kosmos 11K65M	-	53735-617	0.800	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMN	-
1995-002	2449741.66	1995 Jan 24 0354:22	Kosmos 11K65M	-	53735-620	0.940	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMN	-
1995-008	2449779.04	1995 Mar 2 1300:00	Kosmos 11K65M	-	65065-627	1.110	VKSR	OS	-	G	Sat LEO O	NK9505-47	TLE	-
1995-012	2449798.67	1995 Mar 22 0409:03	Kosmos 11K65M	-	47135-622	0.800	VKSR	OS	-	G	Sat LEO O	NK9910-34	-	-
1995-032	2449903.63	1995 Jul 5 0309:03	Kosmos 11K65M	-	53765-638	0.840	VKSR	OS	-	G	Sat LEO O	AVMN	-	-
1995-052	2449996.64	1995 Oct 6 0323:10	Kosmos 11K65M	-	47165-625	0.800	VKSR	OF40	S2U2	G	Sat LEO O	NK9910-34	-	Early shutdown
1995-S72	2450023.50	1995 Nov 2?	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1996-S02	2450082.50	1996	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1996-004	2450099.15	1996 Jan 16 1533:45	Kosmos 11K65M	-	47187-201	0.800	VKSR	OS	-	G	Sat LEO O	NK9602-23	-	-
1996-025	2450198.04	1996 Apr 24 1300:01	Kosmos 11K65M	-	47187-213	0.750	VKSR	OS	-	G	Sat LEO O	NK9701-40	-	-
1996-052	2450332.03	1996 Sep 5 1247:39	Kosmos 11K65M	-	53759-826	0.811	VKSR	OS	-	G	Sat LEO O	NK9618-23	AVMN	-
1996-071	2450437.78	1996 Dec 20 0643:58	Kosmos 11K65M	-	65065-633	0.800	VKSR	OS	-	G	Sat LEO O	NK9626-30	-	-
1997-S01	2450448.50	1997	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1997-S02	2450448.50	1997	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1997-017	2450556.04	1997 Apr 17 1303:21	Kosmos 11K65M	-	53765-635	0.800	VKSR	OS	-	G	Sat LEO O	NK9708-36	-	-
1997-052	2450715.20	1997 Sep 23 1644:51	Kosmos 11K65M	-	47165-637	0.914	VKSR	OS	-	G	Sat LEO O	NK9910-34	-	-
1998-S01	2450813.50	1998	K65M-R	-	-	0.000	RVSNR	MU	-	-	Reentry Test	NK9906-01	-	-
1998-072	2451158.00	1998 Dec 10 1157:07	Kosmos 11K65M	-	53713-320	0.900	RVSNR	OS	-	G	Sat LEO O	Grahn-pc	-	-
1998-076	2451172.33	1998 Dec 24 2002:19	Kosmos 11K65M	-	47164-504	0.800	RVSNR	OS	-	G	Sat LEO O	NK9902-17	-	-
1999-022	2451297.35	1999 Apr 28 2030:00	Kosmos 11K65M	-	65036-413	0.505	RVSNR	OS	-	G/OG	Sat LEO O	NK9906-1	-	-
1999-045	2451417.00	1999 Aug 26 1202:15	Kosmos 11K65M	-	65021-703	0.800	RVSNR	OS	-	G	Sat LEO O	NK9910-34	-	-
1999-S57	2451418.31	1999 Aug 27 1919:59	K65M-R	-	-	0.000	RVSNR	MF	U	-	Reentry Test	RML	Todd,D-pc	or Aug 29
2000-033	2451723.94	2000 Jun 28 1037:42	Kosmos 11K65M	-	53752-105	0.926	RVSNR	OS	-	G	Sat SSO O	NK0008-25	-	-
2000-039	2451741.00	2000 Jul 15 1200:00	Kosmos 11K65M	-	47136-414	0.699	RVSNR	OS	-	G/OG	Sat LEO O	NK0009-29	-	-
2000-074	2451869.46	2000 Nov 20 2300:00	Kosmos 11K65M	-	47165-631	2.365	PU	OF40	S2R	CO	Sat LEO O	NK0101-21	-	Restart failed
2001-023	2452069.13	2001 Jun 8 1508:42	Kosmos 11K65M	-	53706-412	0.800	KVR	OS	-	G	Sat LEO O	NK0108-21	-	-
2002-S86	2452274.50	2002	K65M-R	-	65013-318 RN10	0.000	RVSNR	MF	U	-	Reentry Test	BMLX	-	-
2002-026	2452423.26	2002 May 28 1814:41	Kosmos 11K65M	-	53721-702	0.800	KVR	OS	-	G	Sat LEO O	NK0207-36	www.phototass.com	-
2002-036	2452463.77	2002 Jul 8 0635:41	Kosmos 11K65M	-	47121-704	0.450	KVR	OS	-	G	Sat LEO O	www.tsenki.com	-	-
2002-046	2452544.10	2002 Sep 26 1427:14	Kosmos 11K65M	-	65021-706	0.870	KVR	OS	-	G	Sat LEO O	NK0211-40	-	-
2002-054	2452606.75	2002 Nov 28 0607:07	Kosmos 11K65M	-	53779-802	0.154	KVR	OS	-	G/OG	Sat SSO O	NK0301-54	-	-
2003-023	2452795.31	2003 Jun 4 1923:52	Kosmos 11K65M	-	53721-705	0.800	KVR	OS	-	G	Sat LEO O	NK0308-28	-	-
2003-037	2452870.95	2003 Aug 19 1050:45	Kosmos 11K65M	-	47179-804	0.450	KVR	OS	-	G	Sat LEO O	NK0310-29	-	-
2003-042	2452909.76	2003 Sep 27 0611:44	Kosmos 11K65M	-	65052-103	0.460	KVR	OS	-	G/OG	Sat SSO O	NK0311-36	-	-
2003-S61	2452997.50	2003 Dec 24	K65M-R	-	65013-321 RN11	0.000	RVSNR	MS	-	-	Reentry Test	BMLX	-	-
2004-028	2453209.24	2004 Jul 22 1746:28	Kosmos 11K65M	-	53779-805	0.820	KVR	OS	-	G	Sat LEO O	NK0409-27	-	-
2004-037	2453272.13	2004 Sep 23 1507:36	Kosmos 11K65M	-	53779-811	0.450	KVR	OS	-	G	Sat LEO O	NK0411-39	-	-
2005-S64	2453370.50	2005	K65M-R	-	- RN11-2	0.000	RVSNR	MS	-	-	Reentry Test	BMLX	-	-
2005-002	2453390.63	2005 Jan 20 0300:07	Kosmos 11K65M	-	47106-411	0.850	KVR	OS	-	G	Sat LEO O	NK0503-17	-	-
2005-043	2453670.79	2005 Oct 27 0652:26	Kosmos 11K65M	-	47152-104	0.595	KVR	OS	-	G/OG	Sat SSO O	NK0503-43	-	-
2005-048	2453726.32	2005 Dec 21 1934:20	Kosmos 11K65M	-	53727-232	0.560	KVR	OS	-	G	Sat LEO O	NK0602-24	-	-
2006-S16	2453848.15	2006 Apr 22 1540	K65M-R	-	65087-215	0.000	RVSNR	MS	-	-	Reentry Test	Wire	-	-
2006-060	2454089.08	2006 Dec 19 1400:19	Kosmos 11K65M	-	53727-226 SL	0.770	KVR	OS	-	G/OG	Sat SSO O	NK0702-19	-	-
2007-030	2454284.32	2007 Jul 2 1938:41	Kosmos 11K65M	-	47163-313 SL	0.770	KVR	OS	-	G/OG	Sat SSO O	NK0709-16	-	-
2007-038	2454355.05	2007 Sep 11 1305:06	Kosmos 11K65M	-	53752-108	0.820	KVR	OS	-	G	Sat LEO O	NK0711-19	-	-
2007-053	2454405.54	2007 Nov 1 0051:44	Kosmos 11K65M	-	53765-632 SL	0.770	KVR	OS	-	G/OG	Sat SSO O	NK0801-26	-	-
2008-014	2454553.22	2008 Mar 27 1716:18	Kosmos 11K65M	-	53713-326 SL	0.770	KVR	OS	-	G/OG	Sat SSO O	NK0805-44	-	-
2008-031	2454636.78	2008 Jun 19 0636:46	Kosmos 11K65M	-	53781-708 KL	0.666	KVR	OS	-	G/C	Sat LEO O	NK0808-43	-	-
2008-036	2454669.61	2008 Jul 22 0240:09	Kosmos 11K65M	-	53752-101 SL	0.770	KVR	OS	-	G/OG	Sat SSO O	NK0809-31	-	-
2009-039	2455033.67	2009 Jul 21 0357:43	Kosmos 11K65M	-	47181-710	0.870	KVR	OS	-	G	Sat LEO O	NK0909-36	-	-
2010-017	2455313.55	2010 Apr 27 0105:09	Kosmos 11K65M	-	47181-707	0.820	KVR	OS	-	G	Sat LEO O	NK1006-53	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-E01	2437232.16	1960 Oct 24 1545	R-16	-	LD1-3T	8K64 LKI	MGCh 8F17	Nedelin disaster	-	NIIP-5	LC41/3	-	-	0	-	(Kura)
1961-A43	2437333.29	1961 Feb 2 1900	R-16	-	L1-5T 3L	8K64 LKI-1	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1000?	2200	(Kura)
1961-S69	2437362.08	1961 Mar 3 1359:19	R-16	-	4L-6T	8K64 LKI-2	MGCh 8F17	-	-	NIIP-5	LC41	-	-	1210?	-	Kura
1961-S100	2437392.09	1961 Apr 2 1406	R-16	-	5L-7T	8K64 LKI-3	MGCh 8F17	-	-	NIIP-5	LC41	-	-	1210?	-	Kura
1961-A105	2437405.08	1961 Apr 15 1358:29	R-16	-	7L-12T	8K64 LKI-4	MGCh 8F17	-	-	NIIP-5	LC41	-	-	40?	-	(Kura)
1961-A106	2437411.12	1961 Apr 21 1459	R-16	-	6L-11T	8K64 LKI-5	MGCh 8F17	-	-	NIIP-5	LC41	-	-	0?	-	(Kura)
1961-S146	2437436.31	1961 May 16 1923:27	R-16	-	8L-8T	8K64 LKI-6	MGCh 8F17	-	-	NIIP-5	LC41	-	-	1210?	-	Kura
1961-A128	2437443.64	1961 May 24 0318:06	R-16	-	9L-9T	8K64 LKI-7	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1961-S165	2437453.23	1961 Jun 2 1724:30	R-16	-	10L-10T	8K64 LKI-8	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	6294	Kura
1961-A148	2437457.25	1961 Jun 6 1800	R-16	-	11L-13T	8K64 LKI-9	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1961-A153	2437466.82	1961 Jun 16 0747:23	R-16	-	14L-16T	8K64 LKI-10	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1961-A171	2437502.83	1961 Jul 22 0755	R-16	-	13L-15T	8K64 LKI-11	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	40?	5243	(Kura)
1961-S231	2437520.67	1961 Aug 9 0405	R-16	-	12L-14T	8K64 LKI-12	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1961-A188	2437524.67	1961 Aug 13 0400	R-16	-	21L	8K64 LKI-13	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1961-S266	2437546.62	1961 Sep 4 0246	R-16	-	23L	8K64 LKI-14	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1961-S275	2437552.49	1961 Sep 9 2345?	R-16	-	22L	8K64 K (Kontrol'niy)	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1961-S281	2437556.16	1961 Sep 13 1544	R-16	-	17L-19T	8K64 LKI-15	-	-	-	NIIP-5	LC41/4	-	-	1210?	12001	Pacific
1961-S288	2437560.16	1961 Sep 17 1545	R-16	-	15L-17T	8K64 LKI-16	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Pacific
1961-A205	2437565.16	1961 Sep 22 1545	R-16	-	16L-18T	8K64 LKI-17	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	80?	325	(Pacific)
1961-S327	2437582.37	1961 Oct 9 2047	R-16U	-	2LU	8K64U LKI-1	-	-	-	NIIP-5	LC41/4	-	-	1210?	6293	Kura
1961-A219	2437584.15	1961 Oct 11 1540	R-16U	-	1LU	8K64U LKI-2	-	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1961-S334	2437588.21	1961 Oct 15 1700	R-16U	-	4LU	8K64U LKI-3	-	-	-	NIIP-5	LC41	-	-	1210?	-	Pacific
1961-S341	2437595.21	1961 Oct 22 1700	R-16U	-	3LU	8K64U LKI-4	-	-	-	NIIP-5	LC41	-	-	1210?	-	Pacific
1961-S358	2437601.15	1961 Oct 28 1540	R-16U	-	5LU	8K64U LKI-5	-	-	-	NIIP-5	LC41	-	-	1210?	-	Pacific
1961-S391	2437632.84	1961 Nov 29 0815	R-16	-	E 225 01-01T	8K64 UBP-1	-	-	-	NIIP-5	LC41	-	-	1210?	-	Kura
1961-A245	2437635.48	1961 Dec 1 2329	R-16	-	E 226 01-01T	8K64 UBP	Pad explosion	-	-	NIIP-5	LC41/3	-	-	0	-	Kura
1962-S08	2437668.97	1962 Jan 4 1115	R-16	-	E 225 02-12T	8K64 UBP-2	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S12	2437677.42	1962 Jan 12 2200	R-16U	-	6LU	8K64U LKI-6	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S17	2437681.00	1962 Jan 16 1205	R-16U	-	7LU	8K64U LKI-7	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S18	2437682.00	1962 Jan 17 1200	R-16U	-	8LU	8K64U LKI-8	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S25	2437690.04	1962 Jan 25 1300	R-16U	-	9LU	8K64U LKI-9	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S58	2437727.50	1962 Mar 4	R-16U	-	T 225 01-15T	8K64U K 1 (Kontrol'niy)	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S154	2437816.59	1962 Jun 1 0210:50	R-16U	-	T 225 02-20T	8K64U K 2 (Kontrol'niy)	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S173	2437823.17	1962 Jun 7 1600:43	R-16U	-	T 225 03-20T	8K64U K 3 (Kontrol'niy)	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-A111	2437859.10	1962 Jul 13 1424:59	R-16U	-	10PU	8K64U LKI-10	Silo test	-	-	NIIP-5	LC60/8	-	-	0?	-	(Kura)
1962-S252	2437866.68	1962 Jul 21 0421	R-16U	-	T 225 04-20T	8K64U K 4	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S272	2437877.09	1962 Jul 31 1410	R-16U	-	11LU	8K64U LKI-11	-	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1962-S283	2437885.17	1962 Aug 8 1600	R-16U	-	T 226 01-20T	8K64U K 5	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S345	2437935.10	1962 Sep 27 1419:18	R-16U	-	T 225 04	8K64U K 6	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S379	2437943.13	1962 Oct 5 1511:33	R-16U	-	12LU	8K64U LKI-12	-	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1962-S380	2437943.15	1962 Oct 5 1529	R-16U	-	T 225 05-20T	8K64U UBP-1	Salvo	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1962-S384	2437948.55	1962 Oct 11 0111:38	R-16U	-	T 226 01LU	8K64U UBP-2	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	(Kura)
1962-S385	2437949.07	1962 Oct 11 1343	R-16U	-	T 226 02LU	8K64U UBP-3	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	(Kura)
1962-S393	2437954.14	1962 Oct 16 1520:35	R-16U	-	E 22502-18LU	8K64U UBP-4	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	12500	Pacific
1962-S396	2437955.15	1962 Oct 17 1535:19	R-16U	-	T 22502-19LU	8K64U UBP-5	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	12500	Pacific
1962-S463	2437971.62	1962 Nov 3 0253	R-16U	-	T 22602-20T	8K64U UBP-6	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S486	2437991.32	1962 Nov 22 1943:06	R-16U	-	T 226 03LU	8K64U UBP-7	MGCh 8F116	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1962-S489	2437993.24	1962 Nov 24 1745:13	R-16U	-	T 22500-15LU	8K64U UBP-8	MGCh 8F116	-	-	NIIP-5	LC41/4	-	-	1210?	8800	Pacific
1962-A203	2437994.24	1962 Nov 25 1745	R-16U	-	T 22500-16LU	8K64U UBP-9	MGCh 8F116	-	-	NIIP-5	LC41/4	-	-	1000?	7300	Pacific
1962-S553	2438011.00	1962 Dec 12 1158:35	R-16U	-	T 22500-13LU	8K64U UBP-10	MGCh 8F116	-	-	NIIP-5	LC41/4	-	-	1210?	6294	Kura
1962-S561	2438011.97	1962 Dec 13 1114:32	R-16U	-	T 22500-14LU	8K64U UBP-11	MGCh 8F116	-	-	NIIP-5	LC41/4	-	-	1210?	6294	Kura
1962-S568	2438015.48	1962 Dec 16 2330:26	R-16U	-	T 22500-17LU	8K64U UBP-12	MGCh 8F116K	-	-	NIIP-5	LC41/4	-	-	1210?	6284	Kura
1963-S80	2438093.03	1963 Mar 4 1241:53	R-16U	-	G 225 01-20T	8K64U UBP-13 KO	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1963-S124	2438118.65	1963 Mar 30 0329:58	R-16U	-	G 226 01-20T	8K64U UBP-14 K	MGCh 8F17.3000	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1963-S177	2438145.62	1963 Apr 26 0259:58	R-16U	-	G 225 02-20T	8K64U UBP-15 K	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1963-S209	2438168.12	1963 May 18 1450:01	R-16U	-	G 22500-01TS	8K64U UBP-16	MGCh 8F115	Sheksna silo LC60	-	NIIP-5	LC60/6	-	-	1210?	11985	Pacific
1963-A79	2438168.12	1963 May 18 1455:03	R-16U	-	G 22500-02TS	8K64U UBP-17	MGCh 8F115	-	-	NIIP-5	LC60/7	-	-	0?	-	(Pacific)
1963-S210	2438168.12	1963 May 18 1459:58	R-16U	-	G 22500-03TS	8K64U UBP-18	MGCh 8F115	-	-	NIIP-5	LC60/8	-	-	1210?	11985	Pacific
1963-S237	2438175.13	1963 May 25 1506:17	R-16U	-	G 22500-04TS	8K64U UBP-19	-	-	-	NIIP-5	LC41/15	-	-	1210?	-	-
1963-S251	2438181.62	1963 Jun 1 0259:54	R-16U	-	E 22502-15	8K64U UBP-20	-	-	-	NIIP-5	LC41/15	-	-	1210?	-	Kura
1963-A94	2438201.68	1963 Jun 21 0413:36	R-16U	-	T 22601-15	8K64U UBP-21 BD	-	-	-	NIIP-5	LC41/3	-	-	0?	-	(Kura)
1963-S307	2438209.15	1963 Jun 28 1530:06	R-16U	-	G 22500-05TS	8K64U UBP-22	MGCh 8F116	-	-	NIIP-5	LC41/3	-	-	1210?	-	Pacific
1963-S314	2438210.54	1963 Jun 30 0059:55	R-16U	-	G 225 03-20T	8K64U UBP-23 K	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1963-S332	2438219.15	1963 Jul 8 1530:12	R-16U	-	G 22500-06TS	8K64U UBP-24	MGCh 8F116	-	-	NIIP-5	LC41/3	-	-	1210?	-	Pacific
1963-S333	2438220.15	1963 Jul 9 1530:04	R-16U	-	G 22500-07TS	8K64U UBP-25	MGCh 8F116	-	-	NIIP-5	LC41/3	-	-	1210?	-	Pacific
1963-S647	2438222.50	1963 Jul 12	R-16U	-	-	8K64 42 RD UBP-1	-	-	-	NTAG	LC335/23	-	-	1210?	-	Kura
1963-S365	2438237.62	1963 Jul 27 0300	R-16U	-	G 226 02-20T	8K64U UBP-26 K	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S387	2438254.71	1963 Aug 13 0459:47	R-16U	-	G 22500-08TS	8K64U UBP-27	-	-	-	NIIP-5	LC41/3	-	-	757	-	Kura
1963-S399	2438261.81	1963 Aug 20 0730	R-16U	-	G 22501-02T	8K64U UBP-28	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1963-S648	2438265.50	1963 Aug 24	R-16U	-	-	8K64 42 RD UBP-2	-	-	-	NTAG	LC335/5	-	-	1210?	-	Kura
1963-S415	2438271.77	1963 Aug 30 0630:26	R-16U	-	G 22500-09TS	8K64U UBP-29	-	-	-	NIIP-5	LC41/3	-	-	754	-	Kura
1963-S428	2438277.31	1963 Sep 4 1920	R-16U	-	G 22500-10TS	8K64U UBP-30	-	-	-	NIIP-5	LC41/3	-	-	1210?	6294	Kura
1963-S437	2438282.65	1963 Sep 10 0333	R-16U	-	T 22602-18TB	8K64U UBP-31	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S461	2438298.67	1963 Sep 26 0400	R-16U	-	T 22602-19TB	8K64U UBP-32	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S472	2438303.64	1963 Oct 1 0326	R-16U	-	G 22603-20T	8K64U UBP-33	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S504	2438324.81	1963 Oct 22 0720	R-16U	-	-	8K64U UBP-P1	Groza	-	-	NIIP-53	LC25-1B/11	-	-	1210?	-	Kura
1963-S506	2438325.65	1963 Oct 23 0329	R-16U	-	G 22504-15T	8K64U UBP-34	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S564	2438355.65	1963 Nov 22 0331	R-16U	-	G 22604-20T	8K64U UBP-35	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S595	2438375.70	1963 Dec 12 0451	R-16U	-	E 22502-21T	8K64U UBP-36	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1963-S612	2438383.70	1963 Dec 20 0449	R-16U	-	T 22501-01T	8K64U UBP-37	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1964-S70	2438428.21	1964 Feb 2 1700	R-16U	-	G 22503-09	8K64U UBP-38	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1964-S79	2438432.04	1964 Feb 6 1301	R-16U	-	R 22501-20T	8K64U UBP-39 K	-	-	-	NIIP-5	LC41/4	-	-	1210?	6294	Kura
1964-A28	2438452.02	1964 Feb 26 1229	R-16U	-	R 22601-20T	8K64U UBP-40 L	-	-	-	NIIP-5	LC41/3	-	-	100?	400	Kura
1964-S812	2438479.50	1964 Mar 25	R-16U	-	-	8K64U 54 RD UBP-3	-	-	-	TEYK	LC15/1	-	-	1210?	-	Kura
1964-S131	2438488.88	1964 Apr 3 0914	R-16U	-	R 22502-20T	8K64U UBP-41 K	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1964-S814	2438500.50	1964 Apr 15	R-16U	-	-	8K64 42 RD UBP-3	-	-	-	NTAG	LC335/22	-	-	1210?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S270	2438545.77	1964 May 30 0631	R-16U	-	R 22503-20T	8K64U UBP-42 K	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1964-S397	2438607.84	1964 Jul 31 0805	R-16U	-	R 22504-20T	8K64U UBP-43	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1964-S463	2438649.23	1964 Sep 10 1725	R-16U	-	R 22603-20T	8K64U UBP-44	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1964-S483	2438663.75	1964 Sep 25 0559	R-16U	-	G 22501-13T	8K64U UBP-45	Kedr	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1964-S489	2438664.72	1964 Sep 26 0519	R-16U	-	R 22505-20T	8K64U UBP-46	Climate Test	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1964-S813	2438727.50	1964 Nov 28?	R-16U	-	-	8K64U 54 RD UBP-4	-	-	-	TEYK	LC15/33	-	-	1210?	-	Kura
1964-S695	2438747.71	1964 Dec 18 0459	R-16U	-	R 22604-20T	8K64U UBP-47	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1964-S704	2438755.71	1964 Dec 26 0500	R-16U	-	R 22602-20T	8K64U UBP-48	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1965-S104	2438817.62	1965 Feb 26 0300	R-16U	-	G 22503-15T	8K64U UBP-49 PBG	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1965-S147	2438829.75	1965 Mar 10 0600	R-16U	-	U 22501-20T	8K64U UBP-50	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-S207	2438849.67	1965 Mar 30 0401	R-16U	-	R 22601-02T	8K64U UBP-51	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-S225	2438862.81	1965 Apr 12 0730	R-16U	-	T 22601-12TB	8K64U UBP-52	-	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1965-S252	2438877.04	1965 Apr 26 1300	R-16U	-	U 22601-20T	8K64U UBP-53	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-A58	2438879.04	1965 Apr 28 1258	R-16U	-	U 22502-20T	8K64U UBP-54 K	-	-	-	NIIP-5	LC41/4	-	-	0?	-	Kura
1965-S304	2438902.77	1965 May 22 0629	R-16U	-	G 22503-08T	8K64U UBP-55	-	-	-	NIIP-5	LC41/3	-	-	920	-	Kura
1965-S318	2438908.60	1965 May 28 0223	R-16U	-	T 22601-17T	8K64U UBP-56	-	-	-	NIIP-5	LC60/6	-	-	743	-	Kura
1965-A89	2438940.72	1965 Jun 29 0511	R-16U	-	T 22601-14T	8K64U UBP-57	-	-	-	NIIP-5	LC60/7	-	-	0?	-	(Kura)
1965-S427	2438962.67	1965 Jul 21 0412	R-16U	-	G 22601-03T	8K64U UBP-58	-	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1965-S484	2439003.73	1965 Aug 31 0531	R-16U	-	U 22602-20T	8K64U UBP-59 K	-	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1965-S500	2439021.62	1965 Sep 18 0255	R-16U	-	G 22601-07T	8K64U UBP-60 PBG	-	-	-	NIIP-5	LC41/3	-	-	100?	-	(Kura)
1965-S512	2439028.75	1965 Sep 25 0559	R-16U	-	T 22601-09T	8K64U UBP-61	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1965-S528	2439033.81	1965 Sep 30 0730	R-16U	-	T 22602-09T	8K64U UBP-62	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1965-S595	2439068.69	1965 Nov 4 0432	R-16U	-	U 22603-20T	8K64U UBP-63 K	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-S614	2439076.67	1965 Nov 12 0358	R-16U	-	G 22601-06T	8K64U UBP-64	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-S798	2439114.50	1965 Dec 20	R-16U	-	-	8K64U 54 RD UBP-6	-	-	-	TEYK	LC15/2	-	-	1210?	-	Kura
1965-S657	2439115.79	1965 Dec 21 0700	R-16U	-	E 22501-10	8K64U UBP-P2	Verification	-	-	NIIP-53	-	-	-	1210?	-	Kura
1965-S696	2439117.82	1965 Dec 23 0739	R-16U	-	G 22602-10T	8K64U UBP-65	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1965-S658	2439118.79	1965 Dec 24 0700	R-16U	-	T 22602-04	8K64U UBP-P3	Verification	-	-	NIIP-53	-	-	-	1210?	-	Kura
1965-S795	2439119.50	1965 Dec 25	R-16U	-	T 22602-05	8K64U UBP-P4	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1965-S800	2439119.50	1965 Dec 25	R-16U	-	-	8K64U 8 RD UBP-1	-	-	-	YURYA	LC329/16	-	-	1210?	-	Kura
1965-S697	2439119.80	1965 Dec 25 0716	R-16U	-	T 22602-06TB	8K64U UBP-66	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1965-S700	2439121.03	1965 Dec 26 1243	R-16U	-	U 22601-06T	8K64U UBP-67	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1966-S87	2439156.82	1966 Jan 31 0736	R-16U	-	G 22601-05T	8K64U UBP-68	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S173	2439202.17	1966 Mar 17 1605	R-16U	-	G 22604-13T	8K64U UBP-69	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1966-S182	2439208.74	1966 Mar 24 0549	R-16U	-	N 22601-20T	8K64U UBP-70	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S754	2439213.80	1966 Mar 29 0713	R-16U	-	-	8K64U UBP-P5	-	-	-	NIIP-53	LC24/8	-	-	40?	-	(Kura)
1966-S216	2439227.82	1966 Apr 12 0747	R-16U	-	G 22602-03T	8K64U UBP-71	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S222	2439233.78	1966 Apr 18 0649	R-16U	-	G 22602-04T	8K64U UBP-72	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S234	2439241.92	1966 Apr 26 0959	R-16U	-	G 22602-01T	8K64U UBP-73	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-A69	2439266.69	1966 May 21 0440	R-16U	-	G 22601-12T	8K64U UBP-74 PBG	-	-	-	NIIP-5	LC41/3	-	-	0?	-	(Kura)
1966-S759	2439272.79	1966 May 27 0700	R-16U	-	G 22604-01T	8K64U UBP-P6	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S299	2439280.68	1966 Jun 4 0416	R-16U	-	N 22601-10T	8K64U UBP-75	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S301	2439284.61	1966 Jun 8 0241	R-16U	-	G 22603-07T	8K64U UBP-76	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S342	2439301.87	1966 Jun 25 0852	R-16U	-	N 22601-11T	8K64U UBP-77	Pal'ma-1	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1966-S337	2439302.06	1966 Jun 25 1329	R-16U	-	N 22601-04T	8K64U UBP-78	Pal'ma-1	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1966-S358	2439308.77	1966 Jul 2 0622	R-16U	-	G 22602-02T	8K64U UBP-79	-	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1966-S760	2439308.96	1966 Jul 2 1100	R-16U	-	T 22502-11	8K64U UBP-P7	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S756	2439331.79	1966 Jul 25 0700	R-16U	-	G 22604-02T	8K64U UBP-P8	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S432	2439346.60	1966 Aug 9 0223	R-16U	-	N 22602-10T	8K64U UBP-80	-	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1966-S454	2439362.74	1966 Aug 25 0548	R-16U	-	G 22603-13T	8K64U UBP-81	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S761	2439384.89	1966 Sep 16 0915	R-16U	-	G 22603-03T	8K64U UBP-P9	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-A108	2439390.73	1966 Sep 22 0527	R-16U	-	G 22602-03T	8K64U UBP-82	-	-	-	NIIP-5	LC41/4	-	-	10?	30	(Kura)
1966-S768	2439394.50	1966 Sep 26	R-16U	-	-	8K64U 54 RD UBP-8	-	-	-	TEYK	LC15/33	-	-	1210?	-	Kura
1966-S506	2439395.73	1966 Sep 27 0530	R-16U	-	G 22602-07T	8K64U UBP-83	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S517	2439399.78	1966 Oct 1 0644	R-16U	-	G 22603-09T	8K64U UBP-84	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S762	2439406.99	1966 Oct 8 1145	R-16U	-	G 22603-11T	8K64U UBP-P10	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S547	2439418.74	1966 Oct 20 0547	R-16U	-	G 22604-10T	8K64U UBP-85	Pal'ma-2	-	-	NIIP-5	LC60/8	-	-	1210?	-	Kura
1966-S556	2439420.69	1966 Oct 22 0433	R-16U	-	N 22601-24T	8K64U UBP-86	Pal'ma-2	-	-	NIIP-5	LC60/6	-	-	1210?	-	Kura
1966-S763	2439422.75	1966 Oct 24 0600	R-16U	-	G 22604-04T	8K64U UBP-P11	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S571	2439426.70	1966 Oct 28 0442	R-16U	-	G 22604-09T	8K64U UBP-87	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S577	2439430.69	1966 Nov 1 0434	R-16U	-	G 22603-14T	8K64U UBP-88	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S764	2439432.75	1966 Nov 3 0600	R-16U	-	G 22604-05T	8K64U UBP-P12	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S583	2439433.66	1966 Nov 4 0349	R-16U	-	N 22601-06T	8K64U UBP-89	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S626	2439446.80	1966 Nov 17 0705	R-16U	-	G 22603-06T	8K64U UBP-90	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S651	2439453.64	1966 Nov 24 0315	R-16U	-	G 22603-03T	8K64U UBP-91	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1966-S765	2439454.75	1966 Nov 25 0600	R-16U	-	G 22602-17T	8K64U UBP-P13	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S654	2439455.68	1966 Nov 26 0415	R-16U	-	G 22602-08T	8K64U UBP-92	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S779	2439465.50	1966 Dec 6	R-16U	-	-	8K64U 8 RD UBP-2	-	-	-	YURYA	LC329/21	-	-	1210?	-	Kura
1966-S757	2439467.75	1966 Dec 8 0600	R-16U	-	G 22602-16T	8K64U UBP-P14	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-S671	2439467.83	1966 Dec 8 0756	R-16U	-	G 22603-18T	8K64U UBP-93	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1966-S672	2439468.79	1966 Dec 9 0654	R-16U	-	G 22602-12T	8K64U UBP-94	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1966-S766	2439469.96	1966 Dec 10 1100	R-16U	-	G 22602-14T	8K64U UBP-P15	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1966-A159	2439483.00	1966 Dec 23 1205	R-16U	-	T 22502-04	8K64U UBP-95	-	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1966-S758	2439483.75	1966 Dec 24 0600	R-16U	-	G 22604-17T	8K64U UBP-P16	-	-	-	NIIP-53	LC25-1B/11	-	-	1210?	-	Kura
1966-S755	2439485.75	1966 Dec 26 0600	R-16U	-	G 22604-18T	8K64U UBP-P17	-	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S739	2439490.50	1967?	R-16U	-	-	8K64 36 RD UBP-2	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1967-S666	2439511.92	1967 Jan 21 1000	R-16U	-	G 22603-12T	8K64U UBP-P18	R-16 PL67-1	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S667	2439518.80	1967 Jan 28 0708	R-16U	-	G 22603-15T	8K64U UBP-P19	R-16 PL67-2	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S668	2439524.79	1967 Feb 3 0700	R-16U	-	G 22603-08T	8K64U UBP-P20	R-16 PL67-3	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S681	2439543.79	1967 Feb 22 0700	R-16U	-	-	8K64U UBP-P21	R-16 PL67-4	-	-	NIIP-53	LC25-1B/11	-	-	10?	-	(Kura)
1967-S669	2439560.50	1967 Mar 11	R-16U	-	G 22603-17T	8K64U UBP-P22	R-16 PL67-5	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S737	2439571.50	1967 Mar 22	R-16U	-	-	8K64 42 RD UBP-4	-	-	-	NTAG	LC335/3	-	-	1210?	-	Kura
1967-S682	2439580.79	1967 Mar 31 0700	R-16U	-	T 22502-09	8K64U UBP-P23	R-16 PL67-6	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S670	2439599.79	1967 Apr 19 0700	R-16U	-	T 22501-10	8K64U UBP-P24	R-16 PL67-7	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S683	2439602.88	1967 Apr 22 0900	R-16U	-	G 22603-05T	8K64U UBP-P25	R-16 PL67-8	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S671	2439629.83	1967 May 19 0800	R-16U	-	T 22502-01T	8K64U UBP-P26	R-16 PL67-9	-	-	NIIP-53	-	-	-	1210?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S270	2439634.69	1967 May 24 0429	R-16U	-	G 22604-03T	8K64U UBP-96	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1967-S684	2439636.83	1967 May 26 0800	R-16U	-	G 22603-10T	8K64U UBP-P27	R-16 PL67-10	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S685	2439663.29	1967 Jun 21 1900	R-16U	-	T 22502-02	8K64U UBP-P28	R-16 PL67-11	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S686	2439675.21	1967 Jul 3 1700	R-16U	-	T 22502-08	8K64U UBP-P29	R-16 PL67-12	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S342	2439682.68	1967 Jul 11 0425	R-16U	-	T 22502-06	8K64U UBP-97	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-A96	2439687.04	1967 Jul 15 1259	R-16U	-	T 22503-12	8K64U UBP-98	-	-	-	NIIP-5	LC41/4	-	-	0?	-	Kura
1967-S738	2439691.50	1967 Jul 20	R-16U	-	-	8K64 42 RD UBP-5	-	-	-	NTAG	LC335/12	-	-	1210?	-	Kura
1967-S672	2439693.75	1967 Jul 22 0600	R-16U	-	G 22604-08T	8K64U UBP-P30	R-16 PL67-13	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S687	2439694.00	1967 Jul 22 1200	R-16U	-	G 22604-06T	8K64U UBP-P31	R-16 PL67-14	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S374	2439710.66	1967 Aug 8 0345	R-16U	-	T 22505-17	8K64U UBP-99	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-S673	2439713.81	1967 Aug 11 0730	R-16U	-	T 22501-09	8K64U UBP-P32	R-16 PL67-15	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-A112	2439732.66	1967 Aug 30 0345	R-16U	-	G 22604-11T	8K64U UBP-100	-	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1967-S674	2439735.79	1967 Sep 2 0700	R-16U	-	-	8K64U UBP-P33	R-16 PL67-16	-	-	NIIP-53	LC24/8	-	-	1?	-	(Kura)
1967-S463	2439766.04	1967 Oct 2 1254	R-16U	-	T 22502-12T	8K64U UBP-101	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-S467	2439766.78	1967 Oct 3 0649	R-16U	-	G 22603-16T	8K64U UBP-102	-	-	-	NIIP-5	LC60/7	-	-	1210?	-	Kura
1967-S675	2439768.00	1967 Oct 4 1200	R-16U	-	T 22503-14T	8K64U UBP-P34	R-16 PL67-17	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S479	2439772.70	1967 Oct 9 0449	R-16U	-	T 22503-01	8K64U UBP-103	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-S676	2439774.79	1967 Oct 11 0700	R-16U	-	T 22504-16T	8K64U UBP-P35	R-16 PL67-18	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S490	2439776.79	1967 Oct 13 0703	R-16U	-	T 22503-08	8K64U UBP-104	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-S504	2439790.02	1967 Oct 26 1222	R-16U	-	T 22502-17T	8K64U UBP-105	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-S688	2439790.79	1967 Oct 27 0700	R-16U	-	T 22501-12T	8K64U UBP-P36	R-16 PL67-19	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S677	2439793.83	1967 Oct 30 0800	R-16U	-	T 22502-18T	8K64U UBP-P37	R-16 PL67-20	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S689	2439825.88	1967 Dec 1 0910	R-16U	-	T 22501-11T	8K64U UBP-P38	R-16 PL67-21	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S678	2439831.95	1967 Dec 7 1041	R-16U	-	T 22502-11T	8K64U UBP-P39	R-16 PL67-22	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S575	2439833.68	1967 Dec 9 0414	R-16U	-	T 22501-13T	8K64U UBP-106	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1967-A144	2439836.68	1967 Dec 12 0419	R-16U	-	T 22502-16T	8K64U UBP-107	-	-	-	NIIP-5	LC41/4	-	-	100?	-	(Kura)
1967-S594	2439846.67	1967 Dec 22 0409	R-16U	-	T 22502-07T	8K64U UBP-108	-	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1967-S679	2439849.84	1967 Dec 25 0810	R-16U	-	T 22502-14T	8K64U UBP-P40	R-16 PL67-23	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-S680	2439851.50	1967 Dec 27	R-16U	-	T 22504-02	8K64U UBP-P41	R-16 PL67-24	-	-	NIIP-53	-	-	-	1210?	-	Kura
1967-A146	2439851.68	1967 Dec 27 0416	R-16U	-	T 22502-15T	8K64U UBP-109	-	-	-	NIIP-5	LC41/4	-	-	10?	30	(Kura)
1968-S776	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S777	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S778	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S779	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S786	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S787	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S788	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S789	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S791	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	TEYK	-	-	-	1210?	-	Kura
1968-S780	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S781	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S782	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S790	2439855.50	1968	R-16U	-	-	8K64 UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1968-S736	2439855.50	1968?	R-16U	-	-	8K64 36 RD UBP-2	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1968-S737	2439855.50	1968?	R-16U	-	-	8K64 36 RD UBP-3	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1968-S738	2439855.50	1968?	R-16U	-	-	8K64 36 RD UBP-4	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1968-S20	2439860.68	1968 Jan 5 0414	R-16U	-	G 22603-19T	8K64U UBP-110	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S722	2439874.79	1968 Jan 19 0700	R-16U	-	-	8K64U UBP-P42	R-16 PL68-01	-	-	NIIP-53	LC24/8	-	-	0?	-	(Kura)
1968-S14	2439935.70	1968 Mar 20 0452	R-16U	-	E 22505-07T	8K64U UBP-111	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S704	2439936.38	1968 Mar 20 2100	R-16U	-	T 22505-18T	8K64U UBP-P43	R-16 PL68-02	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S705	2439942.79	1968 Mar 27 0700	R-16U	-	G 22501-17T	8K64U UBP-P44	R-16 PL68-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S21	2439949.71	1968 Apr 3 0505	R-16U	-	T 22505-11T	8K64U UBP-112	MGCh 8F17	-	-	NIIP-5	-	-	-	1210?	-	Kura
1968-S723	2439961.91	1968 Apr 15 0951	R-16U	-	G 22604-07T	8K64U UBP-P45	R-16 PL68-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S706	2439966.83	1968 Apr 20 0800	R-16U	-	G 22604-16T	8K64U UBP-P46	R-16 PL68-05	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S15	2439969.07	1968 Apr 22 1337	R-16U	-	-	8K64U UBP-113	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S22	2439972.73	1968 Apr 26 0524	R-16U	-	R 22604-16T	8K64U UBP-114	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S16	2440000.67	1968 May 24 0404	R-16U	-	T 22502-19T	8K64U UBP-115	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S724	2440001.75	1968 May 25 0600	R-16U	-	T 22502-13T	8K64U UBP-P47	R-16 PL68-06	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S707	2440007.75	1968 May 31 0600	R-16U	-	T 22502-03T	8K64U UBP-P48	R-16 PL68-07	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S708	2440027.79	1968 Jun 20 0700	R-16U	-	T 22504-04T	8K64U UBP-P49	R-16 PL68-08	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S709	2440035.67	1968 Jun 28 0400	R-16U	-	T 22504-19T	8K64U UBP-P50	R-16 PL68-09	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S735	2440037.50	1968 Jun 30	R-16U	-	-	8K64 42 RD UBP-6	-	-	-	NTAG	LC335/21	-	-	1210?	-	Kura
1968-S23	2440039.69	1968 Jul 2 0432	R-16U	-	T 22504-03T	8K64U UBP-116	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-A85	2440054.36	1968 Jul 16 2036	R-16U	-	T 22503-05	8K64U UBP-117	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	0?	-	(Kura)
1968-S710	2440063.29	1968 Jul 25 1900	R-16U	-	G 22503-11T	8K64U UBP-P51	R-16 PL68-10	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S725	2440082.25	1968 Aug 13 1800	R-16U	-	-	8K64U UBP-P52	R-16 PL68-11	-	-	NIIP-53	LC25-1B/11	-	-	0?	-	(Kura)
1968-S711	2440108.85	1968 Sep 9 0830	R-16U	-	T 22504-09	8K64U UBP-P53	R-16 PL68-12	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S712	2440113.83	1968 Sep 14 0753	R-16U	-	T 22505-01	8K64U UBP-P54	R-16 PL68-13	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S713	2440126.93	1968 Sep 27 1022	R-16U	-	T 22504-05	8K64U UBP-P55	R-16 PL68-14	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S24	2440127.70	1968 Sep 28 0444	R-16U	-	T 22604-03T	8K64U UBP-118	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S18	2440136.70	1968 Oct 7 0444	R-16U	-	T 22503-02	8K64U UBP-119	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S714	2440145.79	1968 Oct 16 0700	R-16U	-	G 22502-08	8K64U UBP-P56	R-16 PL68-15	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S715	2440151.79	1968 Oct 22 0700	R-16U	-	T 22503-09	8K64U UBP-P57	R-16 PL68-16	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S25	2440151.68	1968 Oct 22 0425	R-16U	-	T 22504-14T	8K64U UBP-120	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S716	2440155.72	1968 Oct 26 0510	R-16U	-	T 22504-01	8K64U UBP-P58	R-16 PL68-17	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S717	2440161.87	1968 Nov 1 0850	R-16U	-	G 22503-05T	8K64U UBP-P59	R-16 PL68-18	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S718	2440162.00	1968 Nov 1 1200	R-16U	-	G 22604-10T	8K64U UBP-P60	R-16 PL68-19	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S26	2440162.67	1968 Nov 2 0401	R-16U	-	G 22604-12T	8K64U UBP-121	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S27	2440172.67	1968 Nov 12 0402	R-16U	-	T 22503-17T	8K64U UBP-122	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S719	2440185.84	1968 Nov 25 0812	R-16U	-	T 22504-13T	8K64U UBP-P61	R-16 PL68-20	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S19	2440193.69	1968 Dec 3 0432	R-16U	-	T 22503-18T	8K64U UBP-123	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1968-S13	2440210.88	1968 Dec 20 0901	R-16U	-	T 22505-16T	8K64U UBP-124	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1968-S726	2440211.21	1968 Dec 20 1700	R-16U	-	T 22505-06T	8K64U UBP-P62	R-16 PL68-21	-	-	NIIP-53	-	-	-	1210?	-	Kura
1968-S17	2440215.67	1968 Dec 25 0412	R-16U	-	T 22505-15T	8K64U UBP-125	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S753	2440221.50	1969?	R-16U	-	-	8K64 36 RD UBP-5	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1969-S726	2440243.50	1969 Jan 22	R-16U	-	T 22504-07T	8K64U UBP-P63	R-16 PL69-02	-	-	NIIP-53	-	-	-	1210?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-S12	2440243.72	1969 Jan 22 0512	R-16U	-	T 22505-08T	8K64U UBP-126	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S727	2440251.79	1969 Jan 30 0700	R-16U	-	G 22501-16T	8K64U UBP-P64	R-16 PL69-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S06	2440280.67	1969 Feb 28 0404	R-16U	-	T 22505-02T	8K64U UBP-127	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1969-S728	2440280.83	1969 Feb 28 0800	R-16U	-	G 22504-16T	8K64U UBP-P65	R-16 PL69-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S730	2440307.83	1969 Mar 27 0800	R-16U	-	T 22503-11T	8K64U UBP-P66	R-16 PL69-05	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S810	2440372.50	1969 Jun	R-16	-	-	8K64U UBP	-	-	-	YURYA	LC329/17/2	-	-	1210?	-	Kura
1969-S811	2440372.50	1969 Jun	R-16	-	-	8K64U UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1969-S812	2440372.50	1969 Jun	R-16	-	-	8K64U UBP	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1969-S766	2440372.50	1969 Jun	R-16	-	-	8K64U 8 RD UBP-3	-	-	-	YURYA	LC329	-	-	1210?	-	Kura
1969-S752	2440384.50	1969 Jun 12	R-16U	-	-	8K64U 42 RD UBP-7	-	-	-	NTAG	LC335/12	-	-	1210?	-	Kura
1969-S07	2440496.50	1969 Oct 2	R-16U	-	-	8K64U UBP-128	-	-	-	NIIP-5	-	-	-	1210?	-	Kura
1969-S09	2440507.14	1969 Oct 12 1528	R-16U	-	T 22503-10T	8K64U UBP-129	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1969-S13	2440508.13	1969 Oct 13 1508	R-16U	-	T 22504-10T	8K64U UBP-130	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1969-S14	2440509.12	1969 Oct 14 1448	R-16U	-	T 22503-06T	8K64U UBP-131	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S731	2440512.80	1969 Oct 18 0710	R-16U	-	T 22505-12T	8K64U UBP-P67	R-16 PL69-06	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S733	2440522.79	1969 Oct 28 0700	R-16U	-	T 22505-14T	8K64U UBP-P68	R-16 PL69-07	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S15	2440524.67	1969 Oct 30 0405	R-16U	-	T 22505-13T	8K64U UBP-132	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S17	2440540.71	1969 Nov 15 0505	R-16U	-	T 22504-15T	8K64U UBP-133	MGCh 8F17	-	-	NIIP-5	-	-	-	1210?	-	Kura
1969-S734	2440549.88	1969 Nov 24 0900	R-16U	-	T 22505-10T	8K64U UBP-P69	R-16 PL69-08	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S10	2440556.75	1969 Dec 1 0606	R-16U	-	T 22505-04T	8K64U UBP-134	MGCh 8F17	-	-	NIIP-5	LC60-1B/7	-	-	1210?	-	Kura
1969-S08	2440568.67	1969 Dec 13 0402	R-16U	-	T 22501-19T	8K64U UBP-135	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S732	2440571.38	1969 Dec 15 2104	R-16U	-	T 22505-17T	8K64U UBP-P70	R-16 PL69-09	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S16	2440575.67	1969 Dec 20 0405	R-16U	-	T 22504-11T	8K64U UBP-136	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1969-S759	2440582.38	1969 Dec 26 2100	R-16U	-	T 22504-12T	8K64U UBP-P71	R-16 PL69-10	-	-	NIIP-53	-	-	-	1210?	-	Kura
1969-S11	2440585.67	1969 Dec 30 0403	R-16U	-	T 22504-08T	8K64U UBP-137	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1970-S727	2440610.73	1970 Jan 24 0532	R-16U	-	G 22501-01T	8K64U UBP-138	MGCh 8F17	-	-	NIIP-5	LC60-1A/6	-	-	1210?	-	Kura
1970-S06	2440624.73	1970 Feb 7 0535	R-16U	-	G 22503-19T	8K64U UBP-139	MGCh 8F17	-	-	NIIP-5	LC60-1B/7	-	-	1210?	-	Kura
1970-S728	2440645.66	1970 Feb 28 0350	R-16U	-	G 22501-02T	8K64U UBP-140	MGCh 8F17	-	-	NIIP-5	LC60-1B/8	-	-	1210?	-	Kura
1970-S729	2440657.69	1970 Mar 12 0435	R-16U	-	G 22501-21T	8K64U UBP-141	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1970-S07	2440669.72	1970 Mar 24 0510	R-16U	-	G 22501-04T	8K64U UBP-142	MGCh 8F17	-	-	NIIP-5	LC60-1B/8	-	-	1210?	-	Kura
1970-S734	2440672.83	1970 Mar 27 0750	R-16U	-	T 22503-07T	8K64U UBP-143	MGCh 8F17	-	-	NIIP-5	LC41/3	-	-	1210?	-	Kura
1970-S10	2440740.71	1970 Jun 3 0505	R-16U	-	G 22501-05T	8K64U UBP-144	MGCh 8F17	-	-	NIIP-5	LC60-1A/6	-	-	1210?	-	Kura
1970-S691	2440747.79	1970 Jun 10 0700	R-16U	-	R 22601-01T	8K64U UBP-P72	R-16 PL70-11	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S692	2440753.79	1970 Jun 16 0700	R-16U	-	R 22602-08	8K64U UBP-P73	R-16 PL70-02	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S701	2440762.79	1970 Jun 25 0700	R-16U	-	R 22604-18T	8K64U UBP-P74	R-16 PL70-11	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S12	2440767.70	1970 Jun 30 0450	R-16U	-	G 22501-09T	8K64U UBP-145	MGCh 8F17	-	-	NIIP-5	-	-	-	1210?	-	Kura
1970-S693	2440774.79	1970 Jul 7 0700	R-16U	-	G 22501-08T	8K64U UBP-P75	R-16 PL70-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S694	2440799.37	1970 Jul 31 2059:59	R-16U	-	G 22501-24T	8K64U UBP-P76	R-16 PL70-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S695	2440813.26	1970 Aug 14 1820	R-16U	-	G 22501-22T	8K64U UBP-P77	R-16 PL70-05	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S696	2440824.21	1970 Aug 25 1659	R-16U	-	G 22502-10T	8K64U UBP-P78	R-16 PL70-06	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S13	2440836.75	1970 Sep 7 0555	R-16U	-	G 22502-03T	8K64U UBP-146	MGCh 8F17	-	-	NIIP-5	LC60-1A/6	-	-	1210?	-	Kura
1970-S697	2440844.79	1970 Sep 15 0700	R-16U	-	G 22501-11T	8K64U UBP-P79	R-16 PL70-07	-	-	NIIP-53	-	-	-	1210?	-	Kura
1970-S05	2440855.74	1970 Sep 26 0540	R-16U	-	G 22501-23T	8K64U UBP-147	MGCh 8F17	-	-	NIIP-5	LC60-1B/8	-	-	1210?	-	Kura
1971-S18	2440986.21	1971 Feb 3 1705	R-16U	-	G 22502-19T	8K64U UBP-148	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1971-S19	2441029.75	1971 Mar 19 0605	R-16U	-	G 22503-18T	8K64U UBP-149	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1971-S20	2441037.69	1971 Mar 27 0435	R-16U	-	G 22502-04T	8K64U UBP-150	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1971-S21	2441096.65	1971 May 25 0339	R-16U	-	G 22501-06T	8K64U UBP-151	MGCh 8F115	Svinets ("Lead")	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1971-S11	2441100.61	1971 May 29 0245	R-16U	-	G 22504-13T	8K64U UBP-152	MGCh 8F115	-	-	NIIP-5	LC60-1A/6	-	-	1210?	-	Kura
1971-S663	2441119.75	1971 Jun 17 0600	R-16U	-	G 22501-07T	8K64U UBP-P80	R-16 PL71-02	-	-	NIIP-53	-	-	-	1210?	-	Kura
1971-S13	2441126.38	1971 Jun 23 2111	R-16U	-	G 22502-06T	8K64U UBP-153	MGCh 8F115	Svinets (Salyut target)	-	NIIP-5	LC60-1B/8	-	-	1210?	-	Kura
1971-S14	2441130.68	1971 Jun 28 0420	R-16U	-	G 22503-19T	8K64U UBP-154	MGCh 8F115	Svinets	-	NIIP-5	LC60-1B/7	-	-	1210?	-	Kura
1971-S664	2441132.21	1971 Jun 29 1700	R-16U	-	G 22501-10T	8K64U UBP-P81	R-16 PL71-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1971-S665	2441148.21	1971 Jul 15 1700	R-16U	-	T 22505-05T	8K64U UBP-P82	R-16 PL71-04	-	-	NIIP-53	LC5	-	-	1210?	-	Kura
1971-S670	2441159.25	1971 Jul 26 1800	R-16U	-	G 22502-13T	8K64U UBP-P83	R-16 PL71-01	-	-	NIIP-53	-	-	-	1210?	-	Kura
1971-S22	2441169.69	1971 Aug 6 0435	R-16U	-	G 22501-12T	8K64U UBP-155	MGCh 8F17	-	-	NIIP-5	LC60-1B/8	-	-	1210?	-	Kura
1971-S666	2441180.17	1971 Aug 16 1600	R-16U	-	G 22501-15T	8K64U UBP-P84	R-16 PL71-05	-	-	NIIP-53	-	-	-	1210?	-	Kura
1971-S669	2441189.17	1971 Aug 25 1600	R-16U	-	U 22502-10T	8K64U UBP-P85	R-16 PL71-06	-	-	NIIP-53	LC5	-	-	1210?	-	Kura
1971-S12	2441219.91	1971 Sep 25 0950	R-16U	-	G 22504-14T	8K64U UBP-156	MGCh 8F17	-	-	NIIP-5	LC60-1B/7	-	-	1210?	-	Kura
1971-S683	2441232.80	1971 Oct 8 0705	R-16U	-	R 22601-05T	8K64U UBP-157	MGCh 8F17	-	-	NIIP-5	LC60-1A/6	-	-	1210?	-	Kura
1971-S15	2441247.72	1971 Oct 23 0510	R-16U	-	R 22601-10T	8K64U UBP-158	MGCh 8F17	-	-	NIIP-5	LC60-1B/7	-	-	1210?	-	Kura
1971-S17	2441289.77	1971 Dec 4 0630	R-16U	-	G 22602-11T	8K64U UBP-159	MGCh 8F17	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1971-S16	2441309.86	1971 Dec 24 0840	R-16U	-	G 22602-07T	8K64U UBP-160	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S480	2441331.79	1972 Jan 15 0700	R-16U	-	G 22504-17T	8K64U UBP-P86	R-16 PL72-09	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S08	2441336.80	1972 Jan 20 0705	R-16U	-	G 22502-16T	8K64U UBP-161	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S483	2441344.79	1972 Jan 28 0700	R-16U	-	G 22503-03T	8K64U UBP-P87	R-16 PL72-01	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S09	2441357.03	1972 Feb 9 1240	R-16U	-	G 22503-04T	8K64U UBP-162	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S05	2441367.00	1972 Feb 19 1205	R-16U	-	G 22502-15T	8K64U UBP-163	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S484	2441376.88	1972 Feb 29 0900	R-16U	-	G 22503-06T	8K64U UBP-P88	R-16 PL72-02	-	-	NIIP-53	LC5	-	-	1210?	-	Kura
1972-S10	2441380.90	1972 Mar 4 0940	R-16U	-	G 22502-14T	8K64U UBP-164	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S485	2441393.88	1972 Mar 17 0900	R-16U	-	G 22502-11T	8K64U UBP-P89	R-16 PL72-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S794	2441399.03	1972 Mar 22 1240	R-16U	-	G 22504-06T	8K64U UBP	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S754	2441399.50	1972 Mar 23	R-16U	-	-	8K64U 36 RD UBP-6	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1972-S755	2441399.50	1972 Mar 23	R-16U	-	-	8K64U 36 RD UBP-7	-	-	-	KRAS	-	-	-	1210?	-	Pacific
1972-S486	2441406.79	1972 Mar 30 0700	R-16U	-	G 22502-17T	8K64U UBP-P90	R-16 PL72-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S06	2441419.17	1972 Apr 11 1605	R-16U	-	G 22503-10T	8K64U UBP-165	-	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S481	2441425.88	1972 Apr 18 0900	R-16U	-	G 22503-12T	8K64U UBP-P91	R-16 PL72-10	-	-	NIIP-53	LC25-1B/11	-	-	1210?	-	Kura
1972-S11	2441429.18	1972 Apr 21 1615	R-16U	-	G 22504-01T	8K64U UBP-166	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S487	2441471.04	1972 Jun 2 1300	R-16U	-	G 22504-02T	8K64U UBP-P92	R-16 PL72-05	-	-	NIIP-53	LC5	-	-	1210?	-	Kura
1972-S488	2441484.88	1972 Jun 16 0900	R-16U	-	G 22504-03T	8K64U UBP-P93	R-16 PL72-06	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S489	2441496.92	1972 Jun 28 1010	R-16U	-	G 22504-07T	8K64U UBP-P94	R-16 PL72-07	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S756	2441497.50	1972 Jun 29	R-16U	-	-	8K64U 8 RD UBP-4	Vostok-72	-	-	YURYA	LC329/18/31	-	-	1210?	-	Kura
1972-S490	2441518.78	1972 Jul 20 0650	R-16U	-	G 22501-03T	8K64U UBP-P95	R-16 PL72-08	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S760	2441529.96	1972 Jul 31 1100	R-16U	-	G 22503-17T	8K64U UBP-P96	R-16 PL72-08	-	-	NIIP-53	-	-	-	1210?	-	Kura
1972-S482	2441546.83	1972 Aug 17 0800	R-16U	-	G 22502-02T	8K64U UBP-P97	R-16 PL72-11	-	-	NIIP-53	LC5	-	-	1210?	-	Kura
1972-S07	2441548.26	1972 Aug 18 1810	R-16U	-	G 22503-14T	8K64U UBP-167	MGCh 8F115	-	-	NIIP-5	LC41/4	-	-	1210?	-	Kura
1972-S771	2441560.96	1972 Aug 31 1100	R-16U	-	R 22602-02T	8K64U UBP	R-16 PL72	-	-	NIIP-53	-	-	-	1210?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S761	2441622.27	1972 Oct 31 1830	R-16U	-	R 22604-01T	8K64U UBP-P98	R-16 PL72-11	-	-	NIIP-53	LC25-1B/10	-	-	1210?	-	Kura
1972-S762	2441653.89	1972 Dec 2 0920	R-16U	-	R 22604-10T	8K64U UBP-P99	R-16 PL72-11	-	-	NIIP-53	-	-	-	1210?	-	Kura
1973-S487	2441732.73	1973 Feb 19 0530	R-16U	-	R 22604-13T	8K64U UBP-P100	R-16 PL73-01	-	-	NIIP-53	-	-	-	1210?	-	Kura
1973-S488	2441734.96	1973 Feb 21 1100	R-16U	-	G 22501-14T	8K64U UBP-P101	R-16 PL73-02	-	-	NIIP-53	-	-	-	1210?	-	Kura
1973-S489	2441760.77	1973 Mar 19 0630	R-16U	-	G 22502-05T	8K64U UBP-P102	R-16 PL73-03	-	-	NIIP-53	-	-	-	1210?	-	Kura
1973-S499	2441797.50	1973 Apr 25	R-16U	-	-	8K64U 8 RD UBP-5	Vesna-73	-	-	YURYA	LC329/18/30	-	-	1210?	-	Kura
1973-S583	2441831.50	1973 May 29	R-16U	-	-	8K64U UBP	-	-	-	NTAG	LC335/3	-	-	1210?	-	Kura
1973-S490	2441901.55	1973 Aug 7 0115	R-16U	-	R 22601-14	8K64U UBP-P103	R-16 PL73-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1973-S549	2441925.44	1973 Aug 30 2230	R-16U	-	U 22501-18	8K64U UBP-P104	R-16 PL73-04	-	-	NIIP-53	-	-	-	1210?	-	Kura
1974-S445	2442197.73	1974 May 30 0530	R-16U	-	G 22504-04T	8K64U UBP-P105	R-16 PL74-01	-	-	NIIP-53	-	-	-	1210?	-	Kura
1974-S446	2442243.71	1974 Jul 15 0500	R-16U	-	G 22502-09T	8K64U UBP-P106	R-16 PL74-02	-	-	NIIP-53	-	-	-	1210?	-	Kura
1975-S379	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-1	Duga-1	-	-	YSNYA	-	-	-	0?	-	(Pacific)
1975-S380	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-2	Duga-1	-	-	YSNYA	-	-	-	0?	-	(Pacific)
1975-S381	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-3	Duga-1	-	-	YSNYA	-	-	-	0?	-	(Pacific)
1975-S382	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-4	Duga-1	-	-	YSNYA	-	-	-	0?	-	(Pacific)
1975-S383	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-5	Duga-1	-	-	YSNYA	-	-	-	0?	-	(Pacific)
1975-S384	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-6	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1975-S385	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-7	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1975-S386	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-8	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1975-S387	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-9	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1975-S388	2442412.50	1975?	R-16U	-	-	8K64U 47RD UBP-10	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1975-S375	2442595.50	1975 Jul 2	R-16U	-	-	8K64 42 RD UBP-8	-	-	-	NTAG	LC335/3	-	-	1210?	-	Kura
1975-S378	2442616.50	1975 Jul 23	R-16	-	-	8K64 8 RD UBP-6	MGCh	-	-	YURYA	LC329/18	-	-	1210?	-	Kura
1975-S376	2442651.50	1975 Aug 27	R-16U	-	-	8K64U 42 RD UBP-9	-	-	-	NTAG	LC335	-	-	1210?	-	Kura
1975-S377	2442651.50	1975 Aug 27	R-16U	-	-	8K64U 42 RD UBP-10	-	-	-	NTAG	LC335	-	-	1210?	-	Kura
1976-S377	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-11	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S378	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-12	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S379	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-13	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S380	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-14	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S381	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-15	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S382	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-16	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S383	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-17	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S384	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-18	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S385	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-19	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific
1976-S386	2442777.50	1976?	R-16U	-	-	8K64U 47RD UBP-20	Duga-1	-	-	YSNYA	-	-	-	1210?	-	Pacific

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-E01	2437232.16	1960 Oct 24 1545	R-16	-	LD1-3T	0.000	RVSN	ME	-	-	Test	NezavB	-	-
1961-A43	2437333.29	1961 Feb 2 1900	R-16	-	L1-5T 3L	0.000	RVSN	MF	U	-	Test	NezavB	Chertok3-118	-
1961-S69	2437362.08	1961 Mar 3 1359:19	R-16	-	4L-6T	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-S100	2437392.09	1961 Apr 2 1406	R-16	-	5L-7T	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-A105	2437405.08	1961 Apr 15 1358:29	R-16	-	7L-12T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-A106	2437411.12	1961 Apr 21 1459	R-16	-	6L-11T	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S146	2437436.31	1961 May 16 1923:27	R-16	-	8L-8T	0.000	RVSN	MS	-	-	Test	NezavB	-	1935:23 (BML)
1961-A128	2437443.64	1961 May 24 0318:06	R-16	-	9L-9T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-S165	2437453.23	1961 Jun 2 1724:30	R-16	-	10L-10T	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-A148	2437457.25	1961 Jun 6 1800	R-16	-	11L-13T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-A153	2437466.82	1961 Jun 16 0747:23	R-16	-	14L-16T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-A171	2437502.83	1961 Jul 22 0755	R-16	-	13L-15T	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S231	2437520.67	1961 Aug 9 0405	R-16	-	12L-14T	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A188	2437524.67	1961 Aug 13 0400	R-16	-	21L	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S266	2437546.62	1961 Sep 4 0246	R-16	-	23L	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S275	2437552.49	1961 Sep 9 2345?	R-16	-	22L	0.000	RVSN	MS	-	-	Test	BML	NezavB	[Or Sep 10 1810]
1961-S281	2437556.16	1961 Sep 13 1544	R-16	-	17L-19T	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S288	2437560.16	1961 Sep 17 1545	R-16	-	15L-17T	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A205	2437565.16	1961 Sep 22 1545	R-16	-	16L-18T	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S327	2437582.37	1961 Oct 9 2047	R-16U	-	2LU	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A219	2437584.15	1961 Oct 11 1540	R-16U	-	1LU	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S334	2437588.21	1961 Oct 15 1700	R-16U	-	4LU	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S341	2437595.21	1961 Oct 22 1700	R-16U	-	3LU	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S358	2437601.15	1961 Oct 28 1540	R-16U	-	5LU	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S391	2437632.84	1961 Nov 29 0815	R-16	-	E 225 01-01T	0.000	RVSN	MF	U	-	Test	RML	Kosmodrom0010	-
1961-A245	2437635.48	1961 Dec 1 2329	R-16	-	E 226 01-01T	0.000	RVSN	ME	-	-	Test	BML	Kosmodrom0010	-
1962-S08	2437668.97	1962 Jan 4 1115	R-16	-	E 225 02-12T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S12	2437677.42	1962 Jan 12 2200	R-16U	-	6LU	0.000	RVSN	MS	-	-	Test	BML	Glazami	-
1962-S17	2437681.00	1962 Jan 16 1205	R-16U	-	7LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S18	2437682.00	1962 Jan 17 1200	R-16U	-	8LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S25	2437690.04	1962 Jan 25 1300	R-16U	-	9LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S58	2437727.50	1962 Mar 4	R-16U	-	T 225 01-15T	0.000	RVSN	MS	-	-	Test	RML	RDP78T05439	-
1962-S154	2437816.59	1962 Jun 1 0210:50	R-16U	-	T 225 02-20T	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S173	2437823.17	1962 Jun 7 1600:43	R-16U	-	T 225 03-20T	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-A111	2437859.10	1962 Jul 13 1424:59	R-16U	-	10PU	0.000	RVSN	MF	U	-	Test	BML	Glazami	-
1962-S252	2437866.68	1962 Jul 21 0421	R-16U	-	T 225 04-20T	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	[Or 1701]
1962-S272	2437877.09	1962 Jul 31 1410	R-16U	-	11LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S283	2437885.17	1962 Aug 8 1600	R-16U	-	T 226 01-20T	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S345	2437935.10	1962 Sep 27 1419:18	R-16U	-	T 225 04	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S379	2437943.13	1962 Oct 5 1511:33	R-16U	-	12LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S380	2437943.15	1962 Oct 5 1529	R-16U	-	T 225 05-20T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S384	2437948.55	1962 Oct 11 0111:38	R-16U	-	T 226 01LU	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S385	2437949.07	1962 Oct 11 1343	R-16U	-	T 226 02LU	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S393	2437954.14	1962 Oct 16 1520:35	R-16U	-	E 22502-18LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	FI631114-815
1962-S396	2437955.15	1962 Oct 17 1535:19	R-16U	-	T 22502-19LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S463	2437971.62	1962 Nov 3 0253	R-16U	-	T 22602-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1962-S486	2437991.32	1962 Nov 22 1943:06	R-16U	-	T 226 03LU	0.000	RVSN	MS	-	-	Test	BML	RDP78T05439	-
1962-S489	2437993.24	1962 Nov 24 1745:13	R-16U	-	T 22500-15LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-A203	2437994.24	1962 Nov 25 1745	R-16U	-	T 22500-16LU	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0010	-
1962-S553	2438011.00	1962 Dec 12 1158:35	R-16U	-	T 22500-13LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	Z20
1962-S561	2438011.97	1962 Dec 13 1114:32	R-16U	-	T 22500-14LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1962-S568	2438015.48	1962 Dec 16 2330:26	R-16U	-	T 22500-17LU	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1963-S80	2438093.03	1963 Mar 4 1241:53	R-16U	-	G 225 01-20T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0010	-
1963-S124	2438118.65	1963 Mar 30 0329:58	R-16U	-	G 226 01-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S177	2438145.62	1963 Apr 26 0259:58	R-16U	-	G 225 02-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S209	2438168.12	1963 May 18 1450:01	R-16U	-	G 22500-01TS	0.000	RVSN	MS	-	-	OT	BML	Glazami	-
1963-A79	2438168.12	1963 May 18 1455:03	R-16U	-	G 22500-02TS	0.000	RVSN	MF	U	-	OT	BML	Glazami	-
1963-S210	2438168.12	1963 May 18 1459:58	R-16U	-	G 22500-03TS	0.000	RVSN	MS	-	-	OT	BML	Glazami	-
1963-S237	2438175.13	1963 May 25 1506:17	R-16U	-	G 22500-04TS	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S251	2438181.62	1963 Jun 1 0259:54	R-16U	-	E 22502-15	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-A94	2438201.68	1963 Jun 21 0413:36	R-16U	-	T 22601-15	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1963-S307	2438209.15	1963 Jun 28 1530:06	R-16U	-	G 22500-05TS	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1963-S314	2438210.54	1963 Jun 30 0059:55	R-16U	-	G 225 03-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S332	2438219.15	1963 Jul 8 1530:12	R-16U	-	G 22500-06TS	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S333	2438220.15	1963 Jul 9 1530:04	R-16U	-	G 22500-07TS	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S647	2438222.50	1963 Jul 12	R-16U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1963-S365	2438237.62	1963 Jul 27 0300	R-16U	-	G 226 02-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S387	2438254.71	1963 Aug 13 0459:47	R-16U	-	G 22500-08TS	0.000	RVSN	MS	-	-	OT	MS5-65	Kosmodrom0010	-
1963-S399	2438261.81	1963 Aug 20 0730	R-16U	-	G 22501-02T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S648	2438265.50	1963 Aug 24	R-16U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1963-S415	2438271.77	1963 Aug 30 0630:26	R-16U	-	G 22500-09TS	0.000	RVSN	MS	-	-	OT	BML	MS5-65	Kosmodrom0010
1963-S428	2438277.31	1963 Sep 4 1920	R-16U	-	G 22500-10TS	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S437	2438282.65	1963 Sep 10 0333	R-16U	-	T 22602-18TB	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S461	2438298.67	1963 Sep 26 0400	R-16U	-	T 22602-19TB	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S472	2438303.64	1963 Oct 1 0326	R-16U	-	G 22603-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S504	2438324.81	1963 Oct 22 0720	R-16U	-	-	0.000	RVSN	MS	-	-	Test	RML	Zak	-
1963-S506	2438325.65	1963 Oct 23 0329	R-16U	-	G 22504-15T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S564	2438355.65	1963 Nov 22 0331	R-16U	-	G 22604-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S595	2438375.70	1963 Dec 12 0451	R-16U	-	E 22502-21T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1963-S612	2438383.70	1963 Dec 20 0449	R-16U	-	T 22501-01T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-S70	2438428.21	1964 Feb 2 1700	R-16U	-	G 22503-09	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-S79	2438432.04	1964 Feb 6 1301	R-16U	-	R 22501-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-A28	2438452.02	1964 Feb 26 1229	R-16U	-	R 22601-20T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1964-S812	2438479.50	1964 Mar 25	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1964-S131	2438488.88	1964 Apr 3 0914	R-16U	-	R 22502-20T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1964-S814	2438500.50	1964 Apr 15	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S270	2438545.77	1964 May 30 0631	R-16U	-	R 22503-20T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1964-S397	2438607.84	1964 Jul 31 0805	R-16U	-	R 22504-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-S463	2438649.23	1964 Sep 10 1725	R-16U	-	R 22603-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-S483	2438663.75	1964 Sep 25 0559	R-16U	-	G 22501-13T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1964-S489	2438664.72	1964 Sep 26 0519	R-16U	-	R 22505-20T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1964-S813	2438727.50	1964 Nov 28?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1964-S695	2438747.71	1964 Dec 18 0459	R-16U	-	R 22604-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1964-S704	2438755.71	1964 Dec 26 0500	R-16U	-	R 22602-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S104	2438817.62	1965 Feb 26 0300	R-16U	-	G 22503-15T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S147	2438829.75	1965 Mar 10 0600	R-16U	-	U 22501-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S207	2438849.67	1965 Mar 30 0401	R-16U	-	R 22601-02T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S225	2438862.81	1965 Apr 12 0730	R-16U	-	T 22601-12TB	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S252	2438877.04	1965 Apr 26 1300	R-16U	-	U 22601-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-A58	2438879.04	1965 Apr 28 1258	R-16U	-	U 22502-20T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1965-S304	2438902.77	1965 May 22 0629	R-16U	-	G 22503-08T	0.000	RVSN	MS	-	-	OT	MS5-65	Kosmodrom0010	-
1965-S318	2438908.60	1965 May 28 0223	R-16U	-	T 22601-17T	0.000	RVSN	MS	-	-	OT	MS5-65	Kosmodrom0010	-
1965-A89	2438940.72	1965 Jun 29 0511	R-16U	-	T 22601-14T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1965-S427	2438962.67	1965 Jul 21 0412	R-16U	-	G 22601-03T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S484	2439003.73	1965 Aug 31 0531	R-16U	-	U 22602-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S500	2439021.62	1965 Sep 18 0255	R-16U	-	G 22601-07T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	St2 fail
1965-S512	2439028.75	1965 Sep 25 0559	R-16U	-	T 22601-09T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S528	2439033.81	1965 Sep 30 0730	R-16U	-	T 22602-09T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S595	2439068.69	1965 Nov 4 0432	R-16U	-	U 22603-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S614	2439076.67	1965 Nov 12 0358	R-16U	-	G 22601-06T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1965-S798	2439114.50	1965 Dec 20	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1965-S657	2439115.79	1965 Dec 21 0700	R-16U	-	E 22501-10	0.000	RVSN	MS	-	-	OT	RML	-	-
1965-S696	2439117.82	1965 Dec 23 0739	R-16U	-	G 22602-10T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	BML0530/0739?
1965-S658	2439118.79	1965 Dec 24 0700	R-16U	-	T 22602-04	0.000	RVSN	MS	-	-	OT	RPCB	-	-
1965-S795	2439119.50	1965 Dec 25	R-16U	-	T 22602-05	0.000	RVSN	MS	-	-	OT	RPCB	-	-
1965-S800	2439119.50	1965 Dec 25	R-16U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1965-S697	2439119.80	1965 Dec 25 0716	R-16U	-	T 22602-06TB	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1965-S700	2439121.03	1965 Dec 26 1243	R-16U	-	U 22601-06T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	BML1243/1000?
1966-S87	2439156.82	1966 Jan 31 0736	R-16U	-	G 22601-05T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S173	2439202.17	1966 Mar 17 1605	R-16U	-	G 22604-13T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S182	2439208.74	1966 Mar 24 0549	R-16U	-	N 22601-20T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S754	2439213.80	1966 Mar 29 0713	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1966-S216	2439227.82	1966 Apr 12 0747	R-16U	-	G 22602-03T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S222	2439233.78	1966 Apr 18 0649	R-16U	-	G 22602-04T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S234	2439241.92	1966 Apr 26 0959	R-16U	-	G 22602-01T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	BML0315/0959
1966-A69	2439266.69	1966 May 21 0440	R-16U	-	G 22601-12T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1966-S759	2439272.79	1966 May 27 0700	R-16U	-	G 22604-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S299	2439280.68	1966 Jun 4 0416	R-16U	-	N 22601-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S301	2439284.61	1966 Jun 8 0241	R-16U	-	G 22603-07T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S342	2439301.87	1966 Jun 25 0852	R-16U	-	N 22601-11T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1966-S337	2439302.06	1966 Jun 25 1329	R-16U	-	N 22601-04T	0.000	RVSN	MS	-	-	OT	Glazami	Kosmodrom0010	-
1966-S358	2439308.77	1966 Jul 2 0622	R-16U	-	G 22602-02T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S760	2439308.96	1966 Jul 2 1100	R-16U	-	T 22502-11	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S756	2439331.79	1966 Jul 25 0700	R-16U	-	G 22604-02T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S432	2439346.60	1966 Aug 9 0223	R-16U	-	N 22602-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S454	2439362.74	1966 Aug 25 0548	R-16U	-	G 22603-13T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S761	2439384.89	1966 Sep 16 0915	R-16U	-	G 22603-03T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-A108	2439390.73	1966 Sep 22 0527	R-16U	-	G 22602-03T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1966-S768	2439394.50	1966 Sep 26	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S506	2439395.73	1966 Sep 27 0530	R-16U	-	G 22602-07T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	BML0232/0530
1966-S517	2439399.78	1966 Oct 1 0644	R-16U	-	G 22603-09T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S762	2439406.99	1966 Oct 8 1145	R-16U	-	G 22603-11T	0.000	RVSN	MS	-	-	OT	RPCB	-	-
1966-S547	2439418.74	1966 Oct 20 0547	R-16U	-	G 22604-10T	0.000	RVSN	MS	-	-	OT	Kosmodrom9904	Kosmodrom0010	BML0547/0635
1966-S556	2439420.69	1966 Oct 22 0433	R-16U	-	N 22601-24T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S763	2439422.75	1966 Oct 24 0600	R-16U	-	G 22604-04T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S571	2439426.70	1966 Oct 28 0442	R-16U	-	G 22604-09T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S577	2439430.69	1966 Nov 1 0434	R-16U	-	G 22603-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S764	2439432.75	1966 Nov 3 0600	R-16U	-	G 22604-05T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S583	2439433.66	1966 Nov 4 0349	R-16U	-	N 22601-06T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S626	2439446.80	1966 Nov 17 0705	R-16U	-	G 22603-06T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S651	2439453.64	1966 Nov 24 0315	R-16U	-	G 22603-03T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S765	2439454.75	1966 Nov 25 0600	R-16U	-	G 22602-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S654	2439455.68	1966 Nov 26 0415	R-16U	-	G 22602-08T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S779	2439465.50	1966 Dec 6	R-16U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1966-S757	2439467.75	1966 Dec 8 0600	R-16U	-	G 22602-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S671	2439467.83	1966 Dec 8 0756	R-16U	-	G 22603-18T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S672	2439468.79	1966 Dec 9 0654	R-16U	-	G 22602-12T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1966-S766	2439469.96	1966 Dec 10 1100	R-16U	-	G 22602-14T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-A159	2439483.00	1966 Dec 23 1205	R-16U	-	T 22502-04	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1966-S758	2439483.75	1966 Dec 24 0600	R-16U	-	G 22604-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1966-S755	2439485.75	1966 Dec 26 0600	R-16U	-	G 22604-18T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S739	2439490.50	1967?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S666	2439511.92	1967 Jan 21 1000	R-16U	-	G 22603-12T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S667	2439518.80	1967 Jan 28 0708	R-16U	-	G 22603-15T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S668	2439524.79	1967 Feb 3 0700	R-16U	-	G 22603-08T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S681	2439543.79	1967 Feb 22 0700	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1967-S669	2439560.50	1967 Mar 11	R-16U	-	G 22603-17T	0.000	RVSN	MS	-	-	OT	RPCB	-	-
1967-S737	2439571.50	1967 Mar 22	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S682	2439580.79	1967 Mar 31 0700	R-16U	-	T 22502-09	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S670	2439599.79	1967 Apr 19 0700	R-16U	-	T 22501-10	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S683	2439602.88	1967 Apr 22 0900	R-16U	-	G 22603-05T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S671	2439629.83	1967 May 19 0800	R-16U	-	T 22502-01T	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S270	2439634.69	1967 May 24 0429	R-16U	-	G 22604-03T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S684	2439636.83	1967 May 26 0800	R-16U	-	G 22603-10T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S685	2439663.29	1967 Jun 21 1900	R-16U	-	T 22502-02	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S686	2439675.21	1967 Jul 3 1700	R-16U	-	T 22502-08	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S342	2439682.68	1967 Jul 11 0425	R-16U	-	T 22502-06	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-A96	2439687.04	1967 Jul 15 1259	R-16U	-	T 22503-12	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1967-S738	2439691.50	1967 Jul 20	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S672	2439693.75	1967 Jul 22 0600	R-16U	-	G 22604-08T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S687	2439694.00	1967 Jul 22 1200	R-16U	-	G 22604-06T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S374	2439710.66	1967 Aug 8 0345	R-16U	-	T 22505-17	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S673	2439713.81	1967 Aug 11 0730	R-16U	-	T 22501-09	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-A112	2439732.66	1967 Aug 30 0345	R-16U	-	G 22604-11T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1967-S674	2439735.79	1967 Sep 2 0700	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1967-S463	2439766.04	1967 Oct 2 1254	R-16U	-	T 22502-12T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S467	2439766.78	1967 Oct 3 0649	R-16U	-	G 22603-16T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S675	2439768.00	1967 Oct 4 1200	R-16U	-	T 22503-14T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S479	2439772.70	1967 Oct 9 0449	R-16U	-	T 22503-01	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S676	2439774.79	1967 Oct 11 0700	R-16U	-	T 22504-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S490	2439776.79	1967 Oct 13 0703	R-16U	-	T 22503-08	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S504	2439790.02	1967 Oct 26 1222	R-16U	-	T 22502-17T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1967-S688	2439790.79	1967 Oct 27 0700	R-16U	-	T 22501-12T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S677	2439793.83	1967 Oct 30 0800	R-16U	-	T 22502-18T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S689	2439825.88	1967 Dec 1 0910	R-16U	-	T 22501-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S678	2439831.95	1967 Dec 7 1041	R-16U	-	T 22502-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S575	2439833.68	1967 Dec 9 0414	R-16U	-	T 22501-13T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-A144	2439836.68	1967 Dec 12 0419	R-16U	-	T 22502-16T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	St2 Fail
1967-S594	2439846.67	1967 Dec 22 0409	R-16U	-	T 22502-07T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1967-S679	2439849.84	1967 Dec 25 0810	R-16U	-	T 22502-14T	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S680	2439851.50	1967 Dec 27	R-16U	-	T 22504-02	0.000	RVSN	MS	-	-	OT	RPCB	-	-
1967-A146	2439851.68	1967 Dec 27 0416	R-16U	-	T 22502-15T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0010	-
1968-S776	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S777	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S778	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S779	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S786	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S787	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S788	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S789	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S791	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S780	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S781	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S782	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S790	2439855.50	1968	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S736	2439855.50	1968?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S737	2439855.50	1968?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S738	2439855.50	1968?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S20	2439860.68	1968 Jan 5 0414	R-16U	-	G 22603-19T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S722	2439874.79	1968 Jan 19 0700	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1968-S14	2439935.70	1968 Mar 20 0452	R-16U	-	E 22505-07T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S704	2439936.38	1968 Mar 20 2100	R-16U	-	T 22505-18T	0.000	RVSN	MF	U	-	OT	RML	-	-
1968-S705	2439942.79	1968 Mar 27 0700	R-16U	-	G 22501-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S21	2439949.71	1968 Apr 3 0505	R-16U	-	T 22505-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S723	2439961.91	1968 Apr 15 0951	R-16U	-	G 22604-07T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S706	2439966.83	1968 Apr 20 0800	R-16U	-	G 22604-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S15	2439969.07	1968 Apr 22 1337	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S22	2439972.73	1968 Apr 26 0524	R-16U	-	R 22604-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S16	2440000.67	1968 May 24 0404	R-16U	-	T 22502-19T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S724	2440001.75	1968 May 25 0600	R-16U	-	T 22502-13T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S707	2440007.75	1968 May 31 0600	R-16U	-	T 22502-03T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S708	2440027.79	1968 Jun 20 0700	R-16U	-	T 22504-04T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S709	2440035.67	1968 Jun 28 0400	R-16U	-	T 22504-19T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S735	2440037.50	1968 Jun 30	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S23	2440039.69	1968 Jul 2 0432	R-16U	-	T 22504-03T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-A85	2440054.36	1968 Jul 16 2036	R-16U	-	T 22503-05	0.000	RVSN	MF	U	-	OT	RML	AVMS	-
1968-S710	2440063.29	1968 Jul 25 1900	R-16U	-	G 22503-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S725	2440082.25	1968 Aug 13 1800	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1968-S711	2440108.85	1968 Sep 9 0830	R-16U	-	T 22504-09	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S712	2440113.83	1968 Sep 14 0753	R-16U	-	T 22505-01	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S713	2440126.93	1968 Sep 27 1022	R-16U	-	T 22504-05	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S24	2440127.70	1968 Sep 28 0444	R-16U	-	T 22604-03T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S18	2440136.70	1968 Oct 7 0444	R-16U	-	T 22503-02	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S714	2440145.79	1968 Oct 16 0700	R-16U	-	G 22502-08	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S715	2440151.79	1968 Oct 22 0700	R-16U	-	T 22503-09	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S25	2440151.68	1968 Oct 22 0425	R-16U	-	T 22504-14T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S716	2440155.72	1968 Oct 26 0510	R-16U	-	T 22504-01	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S717	2440161.87	1968 Nov 1 0850	R-16U	-	G 22503-05T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S718	2440162.00	1968 Nov 1 1200	R-16U	-	G 22604-10T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S26	2440162.67	1968 Nov 2 0401	R-16U	-	G 22604-12T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S27	2440172.67	1968 Nov 12 0402	R-16U	-	T 22503-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S719	2440185.84	1968 Nov 25 0812	R-16U	-	T 22504-13T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S19	2440193.69	1968 Dec 3 0432	R-16U	-	T 22503-18T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S13	2440210.88	1968 Dec 20 0901	R-16U	-	T 22505-16T	0.000	RVSN	MS	-	-	OT	RML [RPCAJan27]	-	-
1968-S726	2440211.21	1968 Dec 20 1700	R-16U	-	T 22505-06T	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S17	2440215.67	1968 Dec 25 0412	R-16U	-	T 22505-15T	0.000	RVSN	MS	-	-	OT	RML (RPCAJul25]	-	-
1969-S753	2440221.50	1969?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S726	2440243.50	1969 Jan 22	R-16U	-	T 22504-07T	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-S12	2440243.72	1969 Jan 22 0512	R-16U	-	T 22505-08T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S727	2440251.79	1969 Jan 30 0700	R-16U	-	G 22501-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S06	2440280.67	1969 Feb 28 0404	R-16U	-	T 22505-02T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S728	2440280.83	1969 Feb 28 0800	R-16U	-	G 22504-16T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S730	2440307.83	1969 Mar 27 0800	R-16U	-	T 22503-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S810	2440372.50	1969 Jun	R-16	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S811	2440372.50	1969 Jun	R-16	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S812	2440372.50	1969 Jun	R-16	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S766	2440372.50	1969 Jun	R-16	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1969-S752	2440384.50	1969 Jun 12	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S07	2440496.50	1969 Oct 2	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	Kosmodrom0010	-
1969-S09	2440507.14	1969 Oct 12 1528	R-16U	-	T 22503-10T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S13	2440508.13	1969 Oct 13 1508	R-16U	-	T 22504-10T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S14	2440509.12	1969 Oct 14 1448	R-16U	-	T 22503-06T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S731	2440512.80	1969 Oct 18 0710	R-16U	-	T 22505-12T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S733	2440522.79	1969 Oct 28 0700	R-16U	-	T 22505-14T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S15	2440524.67	1969 Oct 30 0405	R-16U	-	T 22505-13T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S17	2440540.71	1969 Nov 15 0505	R-16U	-	T 22504-15T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S734	2440549.88	1969 Nov 24 0900	R-16U	-	T 22505-10T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S10	2440556.75	1969 Dec 1 0606	R-16U	-	T 22505-04T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1969-S08	2440568.67	1969 Dec 13 0402	R-16U	-	T 22501-19T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	[RPCBOct2]
1969-S732	2440571.38	1969 Dec 15 2104	R-16U	-	T 22505-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S16	2440575.67	1969 Dec 20 0405	R-16U	-	T 22504-11T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	[NotRPCB]
1969-S759	2440582.38	1969 Dec 26 2100	R-16U	-	T 22504-12T	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S11	2440585.67	1969 Dec 30 0403	R-16U	-	T 22504-08T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1970-S727	2440610.73	1970 Jan 24 0532	R-16U	-	G 22501-01T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S06	2440624.73	1970 Feb 7 0535	R-16U	-	G 22503-19T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1970-S728	2440645.66	1970 Feb 28 0350	R-16U	-	G 22501-02T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S729	2440657.69	1970 Mar 12 0435	R-16U	-	G 22501-21T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S07	2440669.72	1970 Mar 24 0510	R-16U	-	G 22501-04T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1970-S734	2440672.83	1970 Mar 27 0750	R-16U	-	T 22503-07T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S10	2440740.71	1970 Jun 3 0505	R-16U	-	G 22501-05T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1970-S691	2440747.79	1970 Jun 10 0700	R-16U	-	R 22601-01T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S692	2440753.79	1970 Jun 16 0700	R-16U	-	R 22602-08	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S701	2440762.79	1970 Jun 25 0700	R-16U	-	R 22604-18T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S12	2440767.70	1970 Jun 30 0450	R-16U	-	G 22501-09T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	RPCAJun28
1970-S693	2440774.79	1970 Jul 7 0700	R-16U	-	G 22501-08T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S694	2440799.37	1970 Jul 31 2059:59	R-16U	-	G 22501-24T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S695	2440813.26	1970 Aug 14 1820	R-16U	-	G 22501-22T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S696	2440824.21	1970 Aug 25 1659	R-16U	-	G 22502-10T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S13	2440836.75	1970 Sep 7 0555	R-16U	-	G 22502-03T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1970-S697	2440844.79	1970 Sep 15 0700	R-16U	-	G 22501-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S05	2440855.74	1970 Sep 26 0540	R-16U	-	G 22501-23T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S18	2440986.21	1971 Feb 3 1705	R-16U	-	G 22502-19T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S19	2441029.75	1971 Mar 19 0605	R-16U	-	G 22503-18T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S20	2441037.69	1971 Mar 27 0435	R-16U	-	G 22502-04T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S21	2441096.65	1971 May 25 0339	R-16U	-	G 22501-06T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S11	2441100.61	1971 May 29 0245	R-16U	-	G 22504-13T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S663	2441119.75	1971 Jun 17 0600	R-16U	-	G 22501-07T	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S13	2441126.38	1971 Jun 23 2111	R-16U	-	G 22502-06T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S14	2441130.68	1971 Jun 28 0420	R-16U	-	G 22503-19T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0010	-
1971-S664	2441132.21	1971 Jun 29 1700	R-16U	-	G 22501-10T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1971-S665	2441148.21	1971 Jul 15 1700	R-16U	-	T 22505-05T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1971-S670	2441159.25	1971 Jul 26 1800	R-16U	-	G 22502-13T	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S22	2441169.69	1971 Aug 6 0435	R-16U	-	G 22501-12T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S666	2441180.17	1971 Aug 16 1600	R-16U	-	G 22501-15T	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S669	2441189.17	1971 Aug 25 1600	R-16U	-	U 22502-10T	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S12	2441219.91	1971 Sep 25 0950	R-16U	-	G 22504-14T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S683	2441232.80	1971 Oct 8 0705	R-16U	-	R 22601-05T	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S15	2441247.72	1971 Oct 23 0510	R-16U	-	R 22601-10T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S17	2441289.77	1971 Dec 4 0630	R-16U	-	G 22602-11T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1971-S16	2441309.86	1971 Dec 24 0840	R-16U	-	G 22602-07T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	[BMLDec29]
1972-S480	2441331.79	1972 Jan 15 0700	R-16U	-	G 22504-17T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S08	2441336.80	1972 Jan 20 0705	R-16U	-	G 22502-16T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1972-S483	2441344.79	1972 Jan 28 0700	R-16U	-	G 22503-03T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S09	2441357.03	1972 Feb 9 1240	R-16U	-	G 22503-04T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1972-S05	2441367.00	1972 Feb 19 1205	R-16U	-	G 22502-15T	0.000	RVSN	MS	-	-	OT	RPCA	Kosmodrom0010	-
1972-S484	2441376.88	1972 Feb 29 0900	R-16U	-	G 22503-06T	0.000	RVSN	MS	-	-	OT	RPCA	-	[BMLJan29}
1972-S10	2441380.90	1972 Mar 4 0940	R-16U	-	G 22502-14T	0.000	RVSN	MS	-	-	OT	Kosmodrom0010	-	-
1972-S485	2441393.88	1972 Mar 17 0900	R-16U	-	G 22502-11T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S794	2441399.03	1972 Mar 22 1240	R-16U	-	G 22504-06T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S754	2441399.50	1972 Mar 23	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S755	2441399.50	1972 Mar 23	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S486	2441406.79	1972 Mar 30 0700	R-16U	-	G 22502-17T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S06	2441419.17	1972 Apr 11 1605	R-16U	-	G 22503-10T	0.000	RVSN	MS	-	-	OT	RML	Kosmodrom0010	-
1972-S481	2441425.88	1972 Apr 18 0900	R-16U	-	G 22503-12T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S11	2441429.18	1972 Apr 21 1615	R-16U	-	G 22504-01T	0.000	RVSN	MS	-	-	OT	RPCB	Kosmodrom0010	-
1972-S487	2441471.04	1972 Jun 2 1300	R-16U	-	G 22504-02T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S488	2441484.88	1972 Jun 16 0900	R-16U	-	G 22504-03T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S489	2441496.92	1972 Jun 28 1010	R-16U	-	G 22504-07T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S756	2441497.50	1972 Jun 29	R-16U	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1972-S490	2441518.78	1972 Jul 20 0650	R-16U	-	G 22501-03T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S760	2441529.96	1972 Jul 31 1100	R-16U	-	G 22503-17T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S482	2441546.83	1972 Aug 17 0800	R-16U	-	G 22502-02T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S07	2441548.26	1972 Aug 18 1810	R-16U	-	G 22503-14T	0.000	RVSN	MS	-	-	OT	RPCA	Kosmodrom0010	-
1972-S771	2441560.96	1972 Aug 31 1100	R-16U	-	R 22602-02T	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S761	2441622.27	1972 Oct 31 1830	R-16U	-	R 22604-01T	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S762	2441653.89	1972 Dec 2 0920	R-16U	-	R 22604-10T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S487	2441732.73	1973 Feb 19 0530	R-16U	-	R 22604-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S488	2441734.96	1973 Feb 21 1100	R-16U	-	G 22501-14T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S489	2441760.77	1973 Mar 19 0630	R-16U	-	G 22502-05T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S499	2441797.50	1973 Apr 25	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S583	2441831.50	1973 May 29	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1973-S490	2441901.55	1973 Aug 7 0115	R-16U	-	R 22601-14	0.000	RVSN	MS	-	-	OT	RML	-	-
1973-S549	2441925.44	1973 Aug 30 2230	R-16U	-	U 22501-18	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S445	2442197.73	1974 May 30 0530	R-16U	-	G 22504-04T	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S446	2442243.71	1974 Jul 15 0500	R-16U	-	G 22502-09T	0.000	RVSN	MS	-	-	OT	RML	-	-
1975-S379	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	BMLX	RML
1975-S380	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	BMLX	RML
1975-S381	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	BMLX	RML
1975-S382	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	BMLX	RML
1975-S383	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MF	U	-	OT	RPCA	BMLX	RML
1975-S384	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1975-S385	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1975-S386	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1975-S387	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1975-S388	2442412.50	1975?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1975-S375	2442595.50	1975 Jul 2	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S378	2442616.50	1975 Jul 23	R-16	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S376	2442651.50	1975 Aug 27	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S377	2442651.50	1975 Aug 27	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S377	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S378	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S379	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S380	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S381	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S382	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S383	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S384	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S385	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975
1976-S386	2442777.50	1976?	R-16U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	RML:1975

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A386	2437436.50	1961 May 17	R-21	-	K-1.1	R-21 BR-I-1	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A387	2437444.50	1961 May 25	R-21	-	K-1.1	R-21 BR-I-2	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A385	2437480.50	1961 Q3?	R-21	-	K-1.1	R-21 BR-I-3	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A388	2437480.50	1961 Q3?	R-21	-	K-1.1	R-21 BR-I-4	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A389	2437480.50	1961 Q3?	R-21	-	K-1.1	R-21 BR-I-5	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A390	2437480.50	1961 Q3?	R-21	-	K-1.1	R-21 BR-I-6	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A384	2437502.50	1961 Jul 22	R-21	-	K-1.1	R-21 BR-I-7	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A07	2437540.50	1961 Aug 29	R-21	-	K-1.1	R-21 BR-II-1	-	-	S-229	CHM	-	-	-	1	-	-
1961-A383	2437542.50	1961 Sep?	R-21	-	K-1.1	R-21 BR-II-2	-	-	S-229	CHM	-	-	-	1	-	-
1961-A213	2437553.50	1961 Sep 11	R-21	-	K-1.1	R-21 BR-II-3	-	-	S-229	CHM	-	-	-	1	-	-
1961-A381	2437593.50	1961 Oct 21	R-21	-	K-1.1	R-21 BR-PVB-1	-	-	-	CHM	PSD-4	-	-	1	-	-
1961-A382	2437606.50	1961 Nov 3	R-21	-	K-1.1	R-21 BR-PVB-2	-	-	-	CHM	PSD-4	-	-	1	-	-
1962-S48	2437721.50	1962 Feb 26	R-21	-	-	R-21 4K55 LKI-III-1	MGCh 4G55/RA3	-	K-142	BLA	-	-	-	300?	-	-
1962-S664	2437723.50	1962 Mar?	R-21	-	-	R-21 4K55 LKI-III-2	MGCh 4G55/RA3	-	K-142	BLA	-	-	-	300?	-	-
1962-S665	2437723.50	1962 Mar?	R-21	-	-	R-21 4K55 LKI-III-3	MGCh 4G55/RA3	-	K-142	BLA	-	-	-	300?	-	-
1962-S663	2437723.50	1962 Mar?	R-21	-	-	R-21 4K55 LKI-III-4	MGCh 4G55/RA3	-	K-142	BLA	-	-	-	300?	-	-
1962-S657	2437845.50	1962 Jul	R-21	-	-	R-21 4K55 LKI-III-5	MGCh 4G55/RA3	Kasatka	K-142	BLA	-	-	-	300?	-	NZEM
1962-S658	2437845.50	1962 Jul	R-21	-	-	R-21 4K55 LKI-III-6	MGCh 4G55/RA3	Kasatka	K-142	BLA	-	-	-	300?	-	NZEM
1962-A266	2437845.50	1962 Jul	R-21	-	-	R-21 4K55 LKI-III-7	MGCh 4G55/RA3	Kasatka	K-142	BLA	-	-	-	0?	-	(NZEM)
1962-A267	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-8	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	0?	-	-
1962-A268	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-9	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	0?	-	-
1962-S659	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-10	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1962-S660	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-11	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1962-S661	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-12	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1962-S662	2437845.50	1962 Q3?	R-21	-	-	R-21 4K55 LKI-III-13	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1962-S656	2437998.50	1962 Dec?	R-21	-	-	R-21 4K55 LKI-III-14	MGCh 4G55/RA3	-	K-19	UNKPL	-	-	-	300?	-	-
1963-S678	2438067.50	1963 Feb 7	R-21	-	-	R-21 4K55 LKI-III-15	MGCh 4G55/RA3	-	PLBR	NWSLA	-	-	-	300?	-	NZEM
1963-S666	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-1	MGCh 4G55/RA3	-	PLBR	BLA	-	-	-	300?	-	Khal'mer-Yu
1963-S667	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-2	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S668	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-3	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S669	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-4	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S670	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-5	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S671	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-6	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S672	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-7	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S673	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-8	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S674	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-9	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S675	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-10	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S676	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-11	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S677	2438029.50	1963?	R-21	-	-	R-21 4K55 LKI-IV-12	MGCh 4G55/RA3	-	PLBR	UNKPL	-	-	-	300?	-	-
1963-S05	2438377.50	1963 Dec 14	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-19	BLA?	-	-	-	300?	-	-
1965-S815	2439018.50	1965 Sep 15	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	BELA	-	-	-	300?	-	-
1965-S816	2439018.50	1965 Sep 15	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	BELA	-	-	-	300?	-	-
1966-S810	2439125.50	1966	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-19	BLA	-	-	-	300?	-	-
1967-S09	2439641.50	1967 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	UNKPL	-	-	-	300?	-	-
1967-S773	2439641.50	1967 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	UNKPL	-	-	-	300?	-	-
1967-S774	2439641.50	1967 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	UNKPL	-	-	-	300?	-	-
1968-S771	2440007.50	1968 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-91	UNKPL	-	-	-	300?	-	-
1969-S818	2440221.50	1969	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-91	UNKPL	-	-	-	300?	-	-
1970-S763	2440706.50	1970 May?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	Okean-70	K-79	UNKPL	-	-	-	300?	-	-
1971-S727	2440951.50	1971	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-178	UNKPL	-	-	-	300?	-	-
1971-S730	2440967.50	1971 Jan 16	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-142	UNKPL	-	-	-	300?	-	-
1973-S588	2441682.50	1973	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-16	UNKPL	-	-	-	300?	-	-
1973-S592	2441682.50	1973	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-16	UNKPL	-	-	-	300?	-	-
1973-S586	2441759.50	1973 Mar 18	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-19	UNKPL	-	-	-	300?	-	-
1973-S584	2441772.50	1973 Apr?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	UNKPL	-	-	-	300?	-	-
1973-S585	2441772.50	1973 Apr?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-33	UNKPL	-	-	-	300?	-	-
1974-S558	2442198.50	1974 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-88	UNKPL	-	-	-	300?	-	-
1974-S559	2442198.50	1974 Jun?	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-88	UNKPL	-	-	-	300?	-	-
1975-S444	2442412.50	1975	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-16	NAOLA	-	-	-	300?	-	Atlantic
1975-S438	2442489.50	1975 Mar 18	R-21	-	-	R-21 4K55 UBP	MGCh 4G55/RA3	-	K-19	UNKPL	-	-	-	300?	-	-
1979-S765	2443873.50	1979	R-21	-	-	R-21 8K55M UBP	MGCh	-	PLBR	UNKPL	-	-	-	300?	-	-
1979-S766	2443873.50	1979	R-21	-	-	R-21 8K55M UBP	MGCh	-	K-16	UNKPL	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A386	2437436.50	1961 May 17	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A387	2437444.50	1961 May 25	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A385	2437480.50	1961 Q3?	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A388	2437480.50	1961 Q3?	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A389	2437480.50	1961 Q3?	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A390	2437480.50	1961 Q3?	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A384	2437502.50	1961 Jul 22	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A07	2437540.50	1961 Aug 29	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A383	2437542.50	1961 Sep?	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A213	2437553.50	1961 Sep 11	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A381	2437593.50	1961 Oct 21	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1961-A382	2437606.50	1961 Nov 3	R-21	-	K-1.1	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S48	2437721.50	1962 Feb 26	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S664	2437723.50	1962 Mar?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S665	2437723.50	1962 Mar?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S663	2437723.50	1962 Mar?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S657	2437845.50	1962 Jul	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S658	2437845.50	1962 Jul	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-A266	2437845.50	1962 Jul	R-21	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1962-A267	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1962-A268	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1962-S659	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S660	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S661	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S662	2437845.50	1962 Q3?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-S656	2437998.50	1962 Dec?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S678	2438067.50	1963 Feb 7	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S666	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S667	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S668	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S669	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S670	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S671	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S672	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S673	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S674	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S675	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S676	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S677	2438029.50	1963?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S05	2438377.50	1963 Dec 14	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1965-S815	2439018.50	1965 Sep 15	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1965-S816	2439018.50	1965 Sep 15	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-S810	2439125.50	1966	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S09	2439641.50	1967 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S773	2439641.50	1967 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S774	2439641.50	1967 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S771	2440007.50	1968 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S818	2440221.50	1969	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S763	2440706.50	1970 May?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S727	2440951.50	1971	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S730	2440967.50	1971 Jan 16	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S588	2441682.50	1973	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S592	2441682.50	1973	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S586	2441759.50	1973 Mar 18	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S584	2441772.50	1973 Apr?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S585	2441772.50	1973 Apr?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S558	2442198.50	1974 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S559	2442198.50	1974 Jun?	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S444	2442412.50	1975	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S438	2442489.50	1975 Mar 18	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S765	2443873.50	1979	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S766	2443873.50	1979	R-21	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-A239	2439032.50	1965 Sep 29	Zyb	-	-	R-27 4K10 BR-I-1	-	-	-	CHM	PSD-5	-	-	1?	-	-
1965-A240	2439033.50	1965 Q4?	Zyb	-	-	R-27 4K10 BR-I-2	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A606	2439184.50	1966 Mar	Zyb	-	-	R-27 4K10 BR-I-3	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A607	2439184.50	1966 Mar	Zyb	-	-	R-27 4K10 BR-I-4	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A608	2439184.50	1966 Mar	Zyb	-	-	R-27 4K10 BR-I-5	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A605	2439215.50	1966 Apr	Zyb	-	-	R-27 4K10 BR-I-6	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A596	2439276.50	1966 Jun	Zyb	-	-	R-27 4K10 BR-PVB-1	-	-	-	CHM	PSD-5	-	-	1?	-	-
1966-A597	2439276.50	1966 Jun	Zyb	-	-	R-27 4K10 LKI-3-0	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-A598	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-1	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-A599	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-2	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-S293	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-3	-	-	-	GTsP-4	LC21	-	-	620?	-	BALKH
1966-A600	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-4	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-A601	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-5	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-A602	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-6	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-S808	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-7	-	-	-	GTsP-4	LC21	-	-	620?	-	BALKH
1966-A603	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-8	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-A604	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-9	-	-	-	GTsP-4	LC21	-	-	0?	-	(BALKH)
1966-S809	2439306.50	1966 Q3?	Zyb	-	-	R-27 4K10 LKI-3-10	-	-	-	GTsP-4	LC21	-	-	620?	-	BALKH
1966-A595	2439337.50	1966 Aug	Zyb	-	-	R-27 4K10 BR-PVB-2	-	-	-	CHM	PSD-5	-	-	1?	-	-
1967-S777	2439508.50	1967 Jan 18	Zyb	-	-	R-27 4K10 BR-II-1	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S778	2439580.50	1967 Q2?	Zyb	-	-	R-27 4K10 BR-II-2	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S779	2439580.50	1967 Q2?	Zyb	-	-	R-27 4K10 BR-II-3	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S780	2439580.50	1967 Q2?	Zyb	-	-	R-27 4K10 BR-II-4	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S781	2439580.50	1967 Q2?	Zyb	-	-	R-27 4K10 BR-II-5	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S181	2439580.50	1967 Apr	Zyb	-	-	R-27 4K10 LKI-III-16	MGCh 4G10/RA15	-	-	GTsP-4	LC21	-	-	620?	-	BALKH
1967-S771	2439712.50	1967 Aug 10	Zyb	-	-	R-27 4K10 BR-II-6	-	-	S-229	CHM	-	-	-	1?	-	-
1967-S770	2439739.50	1967 Sep 6	Zyb	-	-	R-27 4K10 LKI-IV-1	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1967-S765	2439760.50	1967 Sep 27	Zyb	-	-	R-27 4K10 LKI-IV-2	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1967-S766	2439760.50	1967 Sep 27	Zyb	-	-	R-27 4K10 LKI-IV-3	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1967-S767	2439765.50	1967 Oct 2	Zyb	-	-	R-27 4K10 LKI-IV-4	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1967-S768	2439765.50	1967 Oct 2	Zyb	-	-	R-27 4K10 LKI-IV-5	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1967-S769	2439765.50	1967 Oct 2	Zyb	-	-	R-27 4K10 LKI-IV-6	MGCh 4G10/RA15	-	K-137	BELA	-	-	-	620?	-	-
1969-S799	2440555.50	1969 Nov 30	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-395	UNKPL	-	-	-	620?	-	-
1969-S800	2440555.50	1969 Nov 30	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-395	UNKPL	-	-	-	620?	-	-
1969-S788	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S789	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S790	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S791	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S792	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S793	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S794	2440574.50	1969 Dec 19	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1969-S795	2440574.73	1969 Dec 19 0530	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-32	BLA	-	-	-	620?	-	-
1970-S764	2440703.50	1970 Apr 27	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	Okean-70	K-253	NAOLA	-	-	-	620?	-	NWSLA
1970-S760	2440920.50	1970 Dec?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-415	UNKPL	-	-	-	620?	-	-
1971-S728	2440951.50	1971	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-253	UNKPL	-	-	-	620?	-	Noril'sk
1971-S729	2440967.50	1971 Jan 16	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-418	UNKPL	-	-	-	620?	-	-
1971-S705	2441194.50	1971 Sep?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-236	UNKPL	-	-	-	620?	-	-
1972-S793	2441437.50	1972 May?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	Start-72	K-214	UNKPL	-	-	-	620?	-	-
1972-S787	2441498.50	1972 Jul?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-140	NWSLA	-	-	-	620?	-	-
1972-S788	2441498.50	1972 Jul?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-140	NWSLA	-	-	-	620?	-	-
1972-S789	2441498.50	1972 Jul?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-140	NWSLA	-	-	-	620?	-	-
1972-S790	2441498.50	1972 Jul?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-140	NWSLA	-	-	-	620?	-	-
1972-A154	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-1	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S327	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-2	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S772	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-3	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S773	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-4	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S774	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-5	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S775	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-6	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S776	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-7	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S777	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-8	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S778	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-9	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S779	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-10	MGCh RA82	-	K-228	UNKPL	-	-	620?	-	-
1972-S780	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-11	3 BB RA83	RGCh	K-228	UNKPL	-	-	620?	-	-
1972-S781	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-12	3 BB RA83	RGCh	K-228	UNKPL	-	-	620?	-	-
1972-S782	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-13	3 BB RA83	RGCh	K-228	UNKPL	-	-	620?	-	-
1972-S783	2441560.50	1972 Sep	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-14	3 BB RA83	RGCh	K-228	UNKPL	-	-	620?	-	-
1972-S784	2441569.50	1972 Sep 9	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-395	UNKPL	-	-	-	620?	-	-
1972-S770	2441611.50	1972 Oct 21	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	NPOLE	-	-	-	620?	-	-
1973-S587	2441682.50	1973?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-434	UNKPL	-	-	-	620?	-	-
1973-S589	2441682.50	1973?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-434	UNKPL	-	-	-	620?	-	-
1973-S590	2441682.50	1973?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-434	UNKPL	-	-	-	620?	-	-
1973-S591	2441682.50	1973?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-434	UNKPL	-	-	-	620?	-	-
1973-S578	2441859.50	1973 Jun 26	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	UNKPL	-	-	-	620?	-	-
1973-S579	2441859.50	1973 Jun 26	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	UNKPL	-	-	-	620?	-	-
1973-S580	2441859.50	1973 Jun 26	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	UNKPL	-	-	-	620?	-	-
1973-S581	2441859.50	1973 Jun 26	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	UNKPL	-	-	-	620?	-	-
1973-S582	2441859.50	1973 Jun 26	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-245	UNKPL	-	-	-	620?	-	-
1973-S463	2441894.50	1973 Aug	Zyb	R-27U	-	Mod 2, MIRV	R-27U 3M20 LKI-15	3 BB RA83	-	K-228	UNKPL	-	-	620?	-	-
1973-S577	2441894.50	1973 Aug	Zyb	R-27U	-	-	R-27U 3M20 LKI-15	3 BB RA83	-	K-228	UNKPL	-	-	620?	-	-
1973-S08	2441936.50	1973 Sep 11	Zyb	R-27K	-	-	-	-	-	PLBR	UNKPL	-	-	620?	-	-
1973-S462	2442020.50	1973 Dec 4	Zyb	R-27K	-	-	-	-	-	PLBR	UNKPL	-	-	620?	-	-
1974-S581	2442081.50	1974 Feb 3	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-395	UNKPL	-	-	-	620?	-	-
1974-S566	2442161.50	1974 Apr 24	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-418	GRSEA	-	-	-	620?	-	-
1974-S560	2442198.50	1974 Jun?	Zyb	-	-	R-27 4K10 UBP	MGCh 4G10/RA15	-	K-444	UNKPL	-	-	-	620?	-	-
1975-S442	2442432.50	1975 Jan 20	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-395	UNKPL	-	-	-	620?	-	-
1975-S436	2442502.50	1975 Apr?	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-252	POLA	-	-	-	620?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-S425	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S426	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S427	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S428	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S429	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S430	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S431	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S432	2442598.50	1975 Jul 5	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-430	UNKPL	-	-	-	620?	-	-
1975-S424	2442655.50	1975 Sep	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-214	UNKPL	-	-	-	620?	-	-
1975-S418	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1975-S419	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1975-S420	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1975-S421	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1975-S422	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1975-S423	2442685.50	1975 Oct	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-258	UNKPL	-	-	-	620?	-	-
1976-S488	2442777.50	1976	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	Start-76	K-423	UNKPL	-	-	-	620?	-	-
1976-S223	2442777.50	1976	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	Okean-76	K-444	UNKPL	-	-	-	620?	-	-
1976-S489	2442777.50	1976	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	Okean-76	K-444	UNKPL	-	-	-	620?	-	-
1976-S490	2442777.50	1976	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-214	GRSEA	-	-	-	620?	-	-
1976-S491	2442777.50	1976	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-214	GRSEA	-	-	-	620?	-	-
1976-S461	2442990.50	1976 Aug?	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-444	UNKPL	-	-	-	620?	-	-
1976-S462	2442990.50	1976 Aug?	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-444	UNKPL	-	-	-	620?	-	-
1978-S350	2443567.50	1978 Mar?	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-252	UNKPL	-	-	-	620?	-	-
1978-S347	2443586.50	1978 Mar 19	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	Razbet-78	K-137	GRSEA	-	-	-	620?	-	-
1978-S348	2443586.50	1978 Mar 19	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	Razbet-78	K-137	GRSEA	-	-	-	620?	-	-
1978-S349	2443598.50	1978 Apr?	Zyb	-	-	R-27U 3M20 UBP	3 BB RA83	-	K-26	UNKPL	-	-	-	620?	-	-
1979-S754	2444177.50	1979 Nov	Zyb	-	-	R-27U 3M20U UBP	3 BB RA83	-	K-436	UNKPL	-	-	-	620?	-	Kura
1980-S306	2444313.50	1980 Mar 15	Zyb	-	-	R-27U 3M20U	3 BB RA83?	-	PLBR	OMLA	-	-	-	620?	-	-
1980-S307	2444313.50	1980 Mar 15	Zyb	-	-	R-27U 3M20U	3 BB RA83?	-	PLBR	OMLA	-	-	-	620?	-	-
1980-S308	2444313.50	1980 Mar 15	Zyb	-	-	R-27U 3M20U	3 BB RA83?	-	PLBR	OMLA	-	-	-	620?	-	-
1980-S309	2444313.50	1980 Mar 15	Zyb	-	-	R-27U 3M20U	3 BB RA83?	-	PLBR	OMLA	-	-	-	620?	-	-
1981-S18	2444604.50	1981	Zyb	-	-	R-27U 3M20U LKI	-	-	PLBR	UNKPL	-	-	-	620?	-	-
1983-S20	2445582.50	1983 Sep 5	Zyb	-	-	R-27U 3M20U UBP	Magistral'	-	K-444	OMLA?	-	-	-	620?	-	-
1984-A44	2445699.50	1984	Zyb	-	-	R-27U 3M20U UBP	-	-	K-252	UNKPL	-	-	-	0	-	-
1987-S244	2447038.50	1987 Sep?	Zyb	-	-	R-27U 3M20U UBP	-	-	K-137	UNKPL	-	-	-	620?	-	-
1987-S245	2447038.50	1987 Sep?	Zyb	-	-	R-27U 3M20U UBP	-	-	K-137	UNKPL	-	-	-	620?	-	-
1988-S32	2447160.50	1988	Zyb	-	-	Final OT	-	-	PLBR	OMLA	-	-	-	620?	-	-
1991-S176	2448608.50	1991 Dec 18	Zyb	-	-	Sprint	-	-	PLBR	POLA	-	-	-	620?	-	Kura
1992-S99	2448965.50	1992 Dec 9 0000	Zyb	-	-	Efir	-	-	K-430	POLA	-	-	-	620?	-	Kura
1993-S73	2449293.50	1993 Nov 2	Zyb	-	-	Efir	R-27U Zyb'	-	K-430	POLA	-	-	-	620?	-	Kura
2016-A26	2457493.36	2016 Apr 14 2033	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	0	-	-
2016-A28	2457505.50	2016 Apr 27	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	1?	-	-
2016-A29	2457506.40	2016 Apr 27 2140	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	10?	-	-
2016-A34	2457539.35	2016 May 30 2020	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	0?	-	-
2016-S38	2457561.37	2016 Jun 21 2056	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	100?	150	-
2016-S39	2457561.46	2016 Jun 21 2303	Hwasong-10	-	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	1414	400	-
2016-S69	2457581.50	2016 Jul 12?	Khorramshahr	-	-	-	-	-	-	SEM	-	-	-	300?	1000	-
2017-S06	2457782.50	2017 Jan 29	Khorramshahr	-	-	-	-	-	-	SEM	-	-	-	300?	1000	-
2017-A03	2457834.42	2017 Mar 21 2200?	Hwasong-10	?	-	BM-25 Musudan	-	-	-	WONSAN	-	-	-	1?	-	-
2018-S70	2458452.50	2018 Nov 30	Khorramshahr	?	-	-	-	-	-	SEM	-	-	-	300?	1000	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-A239	2439032.50	1965 Sep 29	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1965-A240	2439033.50	1965 Q4?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A606	2439184.50	1966 Mar	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A607	2439184.50	1966 Mar	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A608	2439184.50	1966 Mar	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A605	2439215.50	1966 Apr	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A596	2439276.50	1966 Jun	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A597	2439276.50	1966 Jun	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-A598	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-A599	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-S293	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A600	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-A601	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-A602	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-S808	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A603	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-A604	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-S809	2439306.50	1966 Q3?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A595	2439337.50	1966 Aug	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S777	2439508.50	1967 Jan 18	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S778	2439580.50	1967 Q2?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S779	2439580.50	1967 Q2?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S780	2439580.50	1967 Q2?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S781	2439580.50	1967 Q2?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S181	2439580.50	1967 Apr	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S771	2439712.50	1967 Aug 10	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S770	2439739.50	1967 Sep 6	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S765	2439760.50	1967 Sep 27	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S766	2439760.50	1967 Sep 27	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S767	2439765.50	1967 Oct 2	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S768	2439765.50	1967 Oct 2	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S769	2439765.50	1967 Oct 2	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S799	2440555.50	1969 Nov 30	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S800	2440555.50	1969 Nov 30	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S788	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S789	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S790	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S791	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S792	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S793	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S794	2440574.50	1969 Dec 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S795	2440574.73	1969 Dec 19 0530	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S764	2440703.50	1970 Apr 27	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S760	2440920.50	1970 Dec?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S728	2440951.50	1971	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S729	2440967.50	1971 Jan 16	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S705	2441194.50	1971 Sep?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S793	2441437.50	1972 May?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S787	2441498.50	1972 Jul?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S788	2441498.50	1972 Jul?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S789	2441498.50	1972 Jul?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S790	2441498.50	1972 Jul?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A154	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MF	U	-	Test	RML	-	-
1972-S327	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S772	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S773	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S774	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S775	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S776	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S777	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S778	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S779	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S780	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S781	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S782	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S783	2441560.50	1972 Sep	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S784	2441569.50	1972 Sep 9	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S770	2441611.50	1972 Oct 21	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S587	2441682.50	1973?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S589	2441682.50	1973?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S590	2441682.50	1973?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S591	2441682.50	1973?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S578	2441859.50	1973 Jun 26	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S579	2441859.50	1973 Jun 26	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S580	2441859.50	1973 Jun 26	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S581	2441859.50	1973 Jun 26	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S582	2441859.50	1973 Jun 26	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S463	2441894.50	1973 Aug	Zyb R-27U	-	Mod 2, MIRV	0.000	RVSN	MS	-	-	Test	www.fas.org	-	-
1973-S577	2441894.50	1973 Aug	Zyb R-27U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S08	2441936.50	1973 Sep 11	Zyb R-27K	-	-	0.000	RVSN	MS	-	-	Test	Polmar-Moore	-	-
1973-S462	2442020.50	1973 Dec 4	Zyb R-27K	-	-	0.000	RVSN	MS	-	-	Test	Polmar-Moore	-	-
1974-S581	2442081.50	1974 Feb 3	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S566	2442161.50	1974 Apr 24	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S560	2442198.50	1974 Jun?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S442	2442432.50	1975 Jan 20	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S436	2442502.50	1975 Apr?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-S425	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S426	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S427	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S428	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S429	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S430	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S431	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S432	2442598.50	1975 Jul 5	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S424	2442655.50	1975 Sep	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S418	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S419	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S420	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S421	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S422	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S423	2442685.50	1975 Oct	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S488	2442777.50	1976	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	Jul?
1976-S223	2442777.50	1976	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S489	2442777.50	1976	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S490	2442777.50	1976	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S491	2442777.50	1976	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S461	2442990.50	1976 Aug?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S462	2442990.50	1976 Aug?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S350	2443567.50	1978 Mar?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S347	2443586.50	1978 Mar 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S348	2443586.50	1978 Mar 19	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S349	2443598.50	1978 Apr?	Zyb	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S754	2444177.50	1979 Nov	Zyb	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1980-S306	2444313.50	1980 Mar 15	Zyb	-	-	0.000	RVSN	MS	-	-	OT	96C-HartGoldwater	-	-
1980-S307	2444313.50	1980 Mar 15	Zyb	-	-	0.000	RVSN	MS	-	-	OT	96C-HartGoldwater	-	-
1980-S308	2444313.50	1980 Mar 15	Zyb	-	-	0.000	RVSN	MS	-	-	OT	96C-HartGoldwater	-	-
1980-S309	2444313.50	1980 Mar 15	Zyb	-	-	0.000	RVSN	MS	-	-	OT	96C-HartGoldwater	-	-
1981-S18	2444604.50	1981	Zyb	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1983-S20	2445582.50	1983 Sep 5	Zyb	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1984-A44	2445699.50	1984	Zyb	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1987-S244	2447038.50	1987 Sep?	Zyb	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1987-S245	2447038.50	1987 Sep?	Zyb	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1988-S32	2447160.50	1988	Zyb	-	-	0.000	RVSN	MS	-	-	OT	www.fas.org	-	-
1991-S176	2448608.50	1991 Dec 18	Zyb	-	-	0.000	MAK	MS	-	-	Tech	RML	russianspaceweb.com	-
1992-S99	2448965.50	1992 Dec 9 0000	Zyb	-	-	0.000	RVSN	MS	-	-	Tech	russianspaceweb.com	-	-
1993-S73	2449293.50	1993 Nov 2	Zyb	-	-	0.000	RVSN	MS	-	-	Tech	RML	russianspaceweb.com	-
2016-A26	2457493.36	2016 Apr 14 2033	Hwasong-10	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-A28	2457505.50	2016 Apr 27	Hwasong-10	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-A29	2457506.40	2016 Apr 27 2140	Hwasong-10	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-A34	2457539.35	2016 May 30 2020	Hwasong-10	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-S38	2457561.37	2016 Jun 21 2056	Hwasong-10	-	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2016-S39	2457561.46	2016 Jun 21 2303	Hwasong-10	-	-	0.000	JRG	MS	-	-	Test	Wire	-	-
2016-S69	2457581.50	2016 Jul 12?	Khorramshahr	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2017-S06	2457782.50	2017 Jan 29	Khorramshahr	-	-	0.000	IR	MS	-	-	Test	Wire	-	RV exploded
2017-A03	2457834.42	2017 Mar 21 2200?	Hwasong-10	?	-	0.000	JRG	MF	U	-	Test	Wire	-	-
2018-S70	2458452.50	2018 Nov 30	Khorramshahr	?	-	0.000	IR	MS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A169	2439756.50	1967 Sep 23	Vysota	-	-	R-29 4K75 BR-I-1	-	-	-	CHM	PSD-9	-	-	1	-	-
1967-A170	2439763.50	1967 Q4?	Vysota	-	-	R-29 4K75 BR-I-2	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A139	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-I-3	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A140	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-I-4	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A141	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-I-5	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A142	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-I-6	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A143	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-I-7	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A144	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-P-1	-	-	-	CHM	PSD-9	-	-	1	-	-
1968-A145	2439915.50	1968 Mar?	Vysota	-	-	R-29 4K75 BR-P-2	-	-	-	CHM	PSD-9	-	-	1	-	-
1969-S375	2440393.50	1969 Jun 21	Vysota	-	-	R-29 4K75 LKI-II-1	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura
1969-S158	2440402.50	1969 Q3?	Vysota	-	-	R-29 4K75 LKI-II-2	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura?
1969-S805	2440402.50	1969 Q3?	Vysota	-	-	R-29 4K75 LKI-II-3	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura?
1969-S806	2440402.50	1969 Q3?	Vysota	-	-	R-29 4K75 LKI-II-4	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura?
1969-S807	2440402.50	1969 Q3?	Vysota	-	-	R-29 4K75 LKI-II-5	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura?
1969-S808	2440402.50	1969 Q3?	Vysota	-	-	R-29 4K75 LKI-II-6	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	Kura?
1969-S796	2440555.50	1969 Dec?	Vysota	-	-	R-29 4K75 LKI-II-7	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1969-A230	2440555.50	1969 Dec?	Vysota	-	-	R-29 4K75 LKI-II-8	MGCh 4G75/RA46	-	-	NEN	-	-	-	1?	-	-
1969-S797	2440555.50	1969 Dec?	Vysota	-	-	R-29 4K75 LKI-II-9	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1969-S798	2440555.50	1969 Dec?	Vysota	-	-	R-29 4K75 LKI-II-10	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-A189	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-11	MGCh 4G75/RA46	-	-	NEN	-	-	-	1?	-	-
1970-S715	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-12	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S753	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-13	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S754	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-14	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S755	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-15	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S756	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-16	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S757	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-17	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S758	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-18	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1970-S759	2440920.50	1970 Dec?	Vysota	-	-	R-29 4K75 LKI-II-19	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1971-S23	2441285.50	1971 Dec?	Vysota	-	-	R-29 4K75 LKI-II-20	MGCh 4G75/RA46	-	-	NEN	-	-	-	1000?	-	-
1971-S608	2441310.50	1971 Dec 25	Vysota	-	R-29	R-29 4K75 LKI-III-1	MGCh 4G75/RA46	-	K-145	BELA	-	-	-	1000?	-	-
1972-S452	2441316.50	1972 Jan?	Vysota	-	R-29	R-29 4K75 LKI-III-2	MGCh 4G75/RA46	-	K-145	BELA	-	-	-	1000?	-	-
1972-S453	2441376.50	1972 Mar?	Vysota	-	R-29	R-29 4K75 LKI-III-3	MGCh 4G75/RA46	-	K-145	BELA	-	-	-	1000?	-	-
1972-S454	2441407.50	1972 Apr?	Vysota	-	R-29	R-29 4K75 LKI-III-4	MGCh 4G75/RA46	-	K-145	BELA	-	-	-	1000?	-	-
1972-S275	2441550.50	1972 Aug 21	Vysota	-	-	R-29 4K75 LKI-III-5	MGCh 4G75/RA46	-	K-145	BLA	-	-	-	1000?	-	Kura
1972-S298	2441560.50	1972 Sep?	Vysota	-	-	R-29 4K75 LKI-III-6	MGCh 4G75/RA46	-	K-145	BLA	-	-	-	1000?	-	Kura
1972-S328	2441560.50	1972 Sep?	Vysota	-	-	R-29 4K75 LKI-III-7	MGCh 4G75/RA46	-	K-145	BLA?	-	-	-	1000?	-	Kura
1972-S785	2441560.50	1972 Sep?	Vysota	-	-	R-29 4K75 LKI-III-8	MGCh 4G75/RA46	-	K-145	BLA?	-	-	-	1000?	-	Kura
1972-S786	2441560.50	1972 Sep?	Vysota	-	-	R-29 4K75 LKI-III-9	MGCh 4G75/RA46	-	K-145	BLA?	-	-	-	1000?	-	Kura
1972-S404	2441646.50	1972 Nov 25	Vysota	-	-	R-29 4K75 LKI-III-10	MGCh 4G75/RA46	-	K-145	BELA?	-	-	-	1000?	-	Kura
1972-S406	2441649.50	1972 Nov 28	Vysota	-	-	R-29 4K75 LKI-III-11	MGCh 4G75/RA46	-	K-145	BELA?	-	-	-	1000?	-	Pacific
1972-S407	2441649.50	1972 Nov 28	Vysota	-	-	R-29 4K75 LKI-III-12	MGCh 4G75/RA46	-	K-145	BELA?	-	-	-	1000?	-	Pacific
1972-S768	2441651.50	1972 Dec?	Vysota	-	-	R-29 4K75 LKI-III-13	MGCh 4G75/RA46	-	K-118	BELA	-	-	-	1000?	-	Kura
1972-S769	2441651.50	1972 Dec?	Vysota	-	-	R-29 4K75 LKI-III-14	MGCh 4G75/RA46	-	K-118	BELA	-	-	-	1000?	-	Kura
1972-S437	2441665.50	1972 Dec 14	Vysota	-	-	R-29 4K75 LKI-III-15	MGCh 4G75/RA46	-	K-118	BELA?	-	-	-	1000?	-	Kura
1972-S438	2441665.50	1972 Dec 14	Vysota	-	-	R-29 4K75 LKI-III-16	MGCh 4G75/RA46	-	K-118	BELA?	-	-	-	1000?	-	Kura
1972-S439	2441665.50	1972 Dec 14	Vysota	-	-	R-29 4K75 LKI-III-17	MGCh 4G75/RA46	-	K-118	BELA?	-	-	-	1000?	-	Kura
1972-S440	2441665.50	1972 Dec 14	Vysota	-	-	R-29 4K75 LKI-III-18	MGCh 4G75/RA46	-	K-118	BELA?	-	-	-	1000?	-	Kura
1973-S593	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-19	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S594	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-20	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S595	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-21	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S596	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-22	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S597	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-23	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S598	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-24	MGCh 4G75/RA46	-	K-118	UNKPL	-	-	-	1000?	-	Kura
1973-S599	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-25	MGCh 4G75/RA46	-	K-118	BELA	-	-	-	1000?	-	Pacific
1973-S600	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-26	MGCh 4G75/RA46	-	K-279	BELA	-	-	-	1000?	-	Pacific
1973-S601	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-27	MGCh 4G75/RA46	-	K-279	BELA	-	-	-	1000?	-	Pacific
1973-S602	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-28	MGCh 4G75/RA46	-	K-279	BLA	-	-	-	1000?	-	Kura
1973-S603	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-29	MGCh 4G75/RA46	-	K-279	BLA	-	-	-	1000?	-	Kura
1973-S604	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-30	MGCh 4G75/RA46	-	K-279	BLA	-	-	-	1000?	-	Kura
1973-S605	2441682.50	1973	Vysota	-	-	R-29 4K75 LKI-III-31	MGCh 4G75/RA46	-	K-279	BLA	-	-	-	1000?	-	Kura
1974-S569	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S570	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S571	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S572	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S573	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S574	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S575	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S576	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S577	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S578	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S579	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S580	2442137.50	1974 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-447	UNKPL	-	-	-	1000?	-	-
1974-S556	2442259.50	1974 Aug?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-460	BLA	-	-	-	1000?	-	-
1974-S289	2442259.50	1974 Aug?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-460	BLA	-	-	-	1000?	-	-
1974-S436	2442322.50	1974 Oct 2	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	BELA	-	-	-	1000?	7900?	Pacific
1974-S437	2442322.50	1974 Oct 2	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	BELA	-	-	-	1000?	7900?	Pacific
1975-S443	2442412.50	1975	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-460	BLA	-	-	-	1000?	-	-
1975-S445	2442412.50	1975	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-475	UNKPL	-	-	-	1000?	-	-
1975-S437	2442502.50	1975 Apr?	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	UNKPL	-	-	-	1000?	-	-
1975-S434	2442593.50	1975 Jul	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-457	BLA	-	-	-	1000?	-	Kura
1975-S435	2442593.50	1975 Jul	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	K-457	BLA	-	-	-	1000?	-	Kura
1975-A82	2442710.50	1975 Oct 25?	Volna	-	VMF	R-29R 3M40 LKI-I-1	3 BB RA95	-	-	NEN	-	-	-	0?	-	(Kura)
1975-A83	2442710.50	1975 Oct 25?	Volna	-	VMF	R-29R 3M40 LKI-I-2	3 BB RA95	-	-	NEN	-	-	-	0?	-	(Kura)
1975-A84	2442710.50	1975 Oct 25?	Volna	-	VMF	R-29R 3M40 LKI-I-3	3 BB RA95	-	-	NEN	-	-	-	0?	-	(Kura)
1975-S15	2442710.50	1975 Oct 25?	Volna	-	VMF	R-29R 3M40 LKI-I-4	MGCh 3G47/RA94	-	-	NEN	-	-	-	1000?	-	Kura?
1976-S487	2442777.50	1976	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	UNKPL	-	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A134	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-5	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-A135	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-6	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-A136	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-7	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-A137	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-8	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-S463	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-9	MGCh 3G47/RA94	-	-	NEN	-	-	-	1000?	-	Kura
1976-A138	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-10	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-A139	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-11	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-A140	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-12	MGCh 3G47/RA94	-	-	NEN	-	-	-	0?	-	(Kura)
1976-S464	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-13	MGCh 3G47/RA94	-	-	NEN	-	-	-	1000?	-	Kura
1976-S465	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-14	3 BB RA95	-	-	NEN	-	-	-	1000?	-	Kura
1976-S466	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-15	3 BB RA95	-	-	NEN	-	-	-	1000?	-	Kura
1976-S467	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-16	3 BB RA95	-	-	NEN	-	-	-	1000?	-	Kura
1976-S468	2442898.50	1976 May	Volna	-	-	R-29R 3M40 LKI-I-17	3 BB RA95	-	-	NEN	-	-	-	1000?	-	Kura
1976-S457	2443082.50	1976 Nov	Volna	-	-	R-29R 3M40 LKI-II-1	MGCh 3G47/RA94	-	K-441	UNKPL	-	-	-	1000?	-	-
1976-S458	2443082.50	1976 Nov	Volna	-	-	R-29R 3M40 LKI-II-2	MGCh 3G47/RA94	-	K-441	UNKPL	-	-	-	1000?	-	-
1976-S459	2443082.50	1976 Nov	Volna	-	-	R-29R 3M40 LKI-II-3	MGCh 3G47/RA94	-	K-441	UNKPL	-	-	-	1000?	-	Pacific
1976-S460	2443082.50	1976 Nov	Volna	-	-	R-29R 3M40 LKI-II-4	MGCh 3G47/RA94	-	K-441	UNKPL	-	-	-	1000?	-	Kura
1976-A132	2443082.50	1976 Nov	Vysota	-	-	R-29 4K75D LKI-1	MGCh	-	PLBR	BLA	-	-	-	0?	-	-
1976-S454	2443082.50	1976 Nov	Vysota	-	-	R-29 4K75D LKI-2	MGCh	-	PLBR	BLA	-	-	-	1000?	-	-
1976-S455	2443082.50	1976 Nov	Vysota	-	-	R-29 4K75D LKI-3	MGCh	-	PLBR	BLA	-	-	-	1000?	-	-
1976-S456	2443082.50	1976 Nov	Vysota	-	-	R-29 4K75D LKI-4	MGCh	-	PLBR	BLA	-	-	-	1000?	-	-
1976-S317	2443098.50	1976 Nov 16	Volna	-	VMF	R-29R 3M40 LKI-II-5	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Pacific
1976-S21	2443112.50	1976 Dec?	Volna	-	-	R-29R 3M40 LKI-I-18	3 BB RA95	-	-	NEN	-	-	-	1000?	-	Kura
1976-S449	2443121.50	1976 Dec 9	Volna	-	-	R-29R 3M40 LKI-II-6	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Kura
1976-S450	2443123.50	1976 Dec 11	Volna	-	-	R-29R 3M40 LKI-II-7	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Kura
1976-S451	2443123.50	1976 Dec 11	Volna	-	-	R-29R 3M40 LKI-II-8	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Kura
1976-S452	2443123.50	1976 Dec 11	Volna	-	-	R-29R 3M40 LKI-II-9	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Kura
1976-S453	2443123.50	1976 Dec 11	Volna	-	-	R-29R 3M40 LKI-II-10	3 BB RA95	-	K-424	UNKPL	-	-	-	1000?	-	Kura
1977-S117	2443220.50	1977 Mar 18	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	UNKPL	-	-	-	1000?	-	-
1977-S121	2443222.50	1977 Mar 20	Vysota	-	-	R-29 4K75 UBP	MGCh 4G75/RA46	-	PLBR	UNKPL	-	-	-	1000?	-	-
1977-S20	2443326.50	1977 Jul 2?	Vysota	-	-	R-29 4K75D UBP	MGCh 4G75/RA46	-	K-460	UNKPL	-	-	-	1000?	-	-
1977-S473	2443327.50	1977 Jul 3?	Vysota	-	-	R-29 4K75D UBP	MGCh 4G75/RA46	-	K-475	UNKPL	-	-	-	1000?	-	-
1977-S470	2443386.50	1977 Sep	Vysota	-	-	R-29 4K75D UBP	MGCh 4G75/RA46	-	K-477	UNKPL	-	-	-	1000?	-	-
1977-S272	2443447.50	1977 Nov	Volna	-	-	R-29R 3M40L LKI-1	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1977-S273	2443447.50	1977 Nov	Volna	-	-	R-29R 3M40L LKI-2	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1977-S274	2443447.50	1977 Nov	Volna	-	-	R-29R 3M40L LKI-3	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1977-S291	2443477.50	1977 Dec	Volna	-	-	R-29R 3M40L LKI-4	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1977-S458	2443477.50	1977 Dec	Volna	-	-	R-29R 3M40L LKI-5	MGCh	-	K-424	UNKPL	-	-	-	1000?	-	-
1977-S459	2443477.50	1977 Dec	Volna	-	-	R-29R 3M40L LKI-6	MGCh	-	K-424	UNKPL	-	-	-	1000?	-	-
1977-S460	2443477.50	1977 Dec	Volna	-	VMF	R-29R 3M40L LKI-7	MGCh	-	K-424	UNKPL	-	-	-	1000?	-	-
1977-S461	2443477.50	1977 Dec	Volna	-	VMF	R-29R 3M40L LKI-8	MGCh	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S360	2443508.50	1978?	Volna	-	-	R-29R 3M40 UBP	3 BB RA95	-	K-490	BELA	-	-	-	1000?	-	Kura
1978-S363	2443508.50	1978?	Vysota	-	-	R-29 4K75D UBP	-	-	K-193	UNKPL	-	-	-	1000?	-	-
1978-S351	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-9	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S352	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-10	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S353	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-11	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S354	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-12	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S355	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-13	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S356	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-14	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S357	2443539.50	1978 Feb	Volna	-	-	R-29R 3M40L LKI-15	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1978-S346	2443598.50	1978 Apr?	Vysota	-	-	R-29 4K75D UBP	-	-	K-421	UNKPL	-	-	-	1000?	-	-
1978-S204	2443778.50	1978 Sep 27	Volna	-	VMF	R-29 3M40L LKI-16	7 BB	-	K-424	UNKPL	-	-	-	1000?	-	-
1979-S757	2443873.50	1979	Vysota	-	-	R-29 4K75D UBP	-	-	K-472	UNKPL	-	-	-	1000?	-	-
1979-S763	2443873.50	1979	Vysota	-	-	R-29 4K75D UBP	-	-	K-447	UNKPL	-	-	-	1000?	-	-
1979-S764	2443873.50	1979	Vysota	-	-	R-29 4K75D UBP	-	-	K-530	SIMSH	-	-	-	1000?	-	-
1980-A61	2444238.50	1980	Vysota	-	-	R-29 4K75D UBP	-	-	K-171	UNKPL	-	-	-	1000?	-	-
1980-S301	2444373.50	1980 May 14?	Vysota	-	-	R-29 4K75D UBP	-	-	K-457	NPOLE	-	-	-	1000?	-	-
1980-S302	2444373.50	1980 May 14?	Vysota	-	-	R-29 4K75D UBP	-	-	K-457	NPOLE	-	-	-	1000?	-	-
1980-S300	2444390.50	1980 Jun?	Volna	-	-	R-29R 3M40L Demo	3 BB	-	K-424	NWSLA	-	-	-	1000?	-	-
1980-S297	2444420.50	1980 Jul	Vysota	-	-	R-29 4K75D UBP	-	-	K-171	POLA	-	-	-	1000?	-	Khalmer-Yu
1980-S14	2444451.50	1980 Aug?	Volna	-	-	R-29R 3M40L Demo	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	-
1981-S270	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-490	UNKPL	-	-	-	1000?	-	-
1981-S271	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S272	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S273	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S274	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S275	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S276	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S277	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S278	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S279	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S280	2444604.50	1981	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-441	UNKPL	-	-	-	1000?	-	-
1981-S26	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-1	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S27	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-2	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S28	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-3	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S29	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-4	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S262	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-5	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S263	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-6	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S264	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-7	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S265	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-8	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S266	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-9	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S267	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-10	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S268	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-11	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S269	2444663.50	1981 Mar?	Volna	-	-	R-29R 3M40K LKI-12	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1981-S30	2444788.50	1981 Jul 3	Vysota	-	-	R-29 4K75D UBP	-	-	K-447	NPOLE	-	-	-	1000?	-	-
1981-S31	2444788.50	1981 Jul 3	Vysota	-	-	R-29 4K75D UBP	-	-	K-447	NPOLE	-	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-S32	2444908.50	1981 Nov	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-523	UNKPL	-	-	-	1000?	-	-
1981-A39	2444908.50	1981 Nov?	Shtil'	-	-	R-29RM 3M37	B-1-1 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-S307	2444969.50	1982?	Vysota	-	-	R-29R 3M40L UBP	3 BB	-	K-180	UNKPL	-	-	-	1000?	-	-
1982-A49	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-2 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A51	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-3 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A52	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-4 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A53	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-5 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A54	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-6 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A55	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-7 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-A56	2444969.50	1982 Jan?	Shtil'	-	-	R-29RM 3M37	B-1-8 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1982-S304	2444998.50	1982 Jan 29?	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-421	BLA	-	-	-	1000?	-	Kura
1982-S305	2444999.50	1982 Jan 30?	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-421	BLA	-	-	-	1000?	-	Kura
1982-S306	2445000.50	1982 Jan 31?	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-385	BLA	-	-	-	1000?	-	Kura?
1982-S301	2445082.50	1982 Apr 23	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-92	STANNA	-	-	-	1000?	-	-
1982-S302	2445082.50	1982 Apr 23	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-92	STANNA	-	-	-	1000?	-	-
1982-S296	2445138.50	1982 Jun 18	Vysota	-	-	R-29 4K75D UBP	Shchit-82 ABM Target	-	K-92	NPOLE	-	-	-	1000?	-	BALKH
1982-S295	2445251.50	1982 Oct 9	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-512	UNKPL	-	-	-	1000?	-	-
1982-A50	2445273.50	1982 Nov	Shtil'	-	-	R-29RM 3M37	B-1-9 Eject test	-	-	CHM	PS-65M	-	-	1	-	-
1983-S338	2445334.50	1983	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-506	UNKPL	-	-	-	1000?	-	-
1983-S339	2445334.50	1983	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-92	UNKPL	-	-	-	1000?	-	-
1983-S340	2445334.50	1983	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-506	UNKPL	-	-	-	1000?	-	-
1983-A58	2445479.50	1983 May 25	Volna	-	-	R-29R 3M40K UBP	7 BB	-	PLBR	POLA	-	-	-	0?	-	Chiza
1983-S107	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-1	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S317	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-2	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S318	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-3	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S319	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-4	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S320	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-5	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S321	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-6	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S322	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-7	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S323	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-8	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S324	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-9	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S325	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-10	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S326	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-11	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S327	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-12	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S328	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-13	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S329	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-14	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura
1983-S316	2445485.50	1983 Jun	Shtil'	-	-	R-29RM 3M37 LKI-2-15	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura?
1983-S315	2445690.50	1983 Dec 22	Vysota	-	-	R-29R 3M40L UBP	3 BB	-	K-223	UNKPL	-	-	-	1000?	-	-
1984-S318	2445699.50	1984	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-490	UNKPL	-	-	-	1000?	-	-
1984-S317	2445752.50	1984 Feb 22	Vysota	-	-	R-29R 3M40L UBP	3 BB	-	K-433	UNKPL	-	-	-	1000?	-	-
1984-S315	2445790.50	1984 Apr?	Vysota	-	-	R-29 4K75D UBP	3 BB?	Atlantika-84	K-447	UNKPL	-	-	-	1000?	-	-
1984-S314	2445801.50	1984 Apr 11	Volna	-	-	R-29R 3M40L UBP	3 BB	-	K-433	UNKPL	-	-	-	1000?	-	-
1984-S313	2445881.50	1984 Jul?	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-92	STANNA	-	-	-	1000?	-	Kura?
1984-S312	2445943.50	1984 Sep?	Shtil'	-	-	R-29RM 3M37 LKI-2-16	10 BB	-	-	NEN	NSK-37	-	-	1000?	-	Kura?
1984-S142	2445950.80	1984 Sep 7 0710	Volna	-	VMF	R-29R 3M40K UBP	7 BB	-	PLBR	BLA	-	-	-	1000?	-	Kura?
1984-S296	2445970.50	1984 Sep 27	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-424	BLA	-	-	-	1000?	-	Kura
1984-S290	2446002.50	1984 Oct 29	Shtil'	-	-	R-29RM 3M37 LKI-3-1	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S291	2446003.50	1984 Oct 30	Shtil'	-	-	R-29RM 3M37 LKI-3-2	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S292	2446020.50	1984 Nov 16	Shtil'	-	-	R-29RM 3M37 LKI-3-3	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S293	2446021.50	1984 Nov 17	Shtil'	-	-	R-29RM 3M37 LKI-3-4	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S294	2446024.50	1984 Nov 20	Shtil'	-	-	R-29RM 3M37 LKI-3-5	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S295	2446031.50	1984 Nov 27	Shtil'	-	-	R-29RM 3M37 LKI-3-6	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura?
1984-S284	2446053.50	1984 Dec 19	Shtil'	-	-	R-29RM 3M37 LKI-3-7	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura?
1984-S285	2446053.50	1984 Dec 19	Shtil'	-	-	R-29RM 3M37 LKI-3-8	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S286	2446060.50	1984 Dec 26	Shtil'	-	-	R-29RM 3M37 LKI-3-9	10 BB	-	K-51	BELA	-	-	-	1000?	-	Pacific
1984-S287	2446060.50	1984 Dec 26	Shtil'	-	-	R-29RM 3M37 LKI-3-10	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1984-S288	2446060.50	1984 Dec 26	Shtil'	-	-	R-29RM 3M37 LKI-3-11	10 BB	-	K-51	BELA	-	-	-	1000?	-	Pacific
1984-S289	2446060.50	1984 Dec 26	Shtil'	-	-	R-29RM 3M37 LKI-3-12	10 BB	-	K-51	BELA	-	-	-	1000?	-	Kura
1985-S336	2446065.50	1985	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-129	NPOLE	-	-	-	1000?	-	-
1985-S337	2446065.50	1985	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-129	NAOLA	-	-	-	1000?	-	-
1985-S314	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-1	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S315	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-2	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S316	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-3	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S317	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-4	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S318	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-5	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S319	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-6	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S320	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-7	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S321	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-8	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S322	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-9	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S323	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-10	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S324	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-11	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S325	2446155.50	1985 Apr?	Vysota	-	-	R-29 4K75DU LKI-12	MGCh	-	PLBR	UNKPL	-	-	-	1000?	-	-
1985-S313	2446246.50	1985 Jul	Volna	-	-	R-29R 3M40K UBP	7 BB	-	PLBR	UNKPL	-	-	-	100?	-	-
1985-A23	2446273.50	1985 Jul 27	Shtil'	-	-	R-29RM 3M37 DLKI-1	10 BB	-	K-51	UNKPL	-	-	-	20?	-	-
1985-S312	2446273.50	1985 Jul 27	Shtil'	-	-	R-29RM 3M37 DLKI-2	10 BB	-	K-51	UNKPL	-	-	-	100?	-	-
1985-S310	2446295.50	1985 Aug 18?	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-487	NPOLE	-	-	-	1000?	-	Kura?
1985-S311	2446295.50	1985 Aug 18?	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-487	NPOLE	-	-	-	1000?	-	Kura?
1985-S306	2446361.50	1985 Oct 23	Shtil'	-	-	R-29RM 3M37 DLKI-3	10 BB	-	K-51	UNKPL	-	-	-	1000?	-	-
1985-S307	2446361.50	1985 Oct 23	Shtil'	-	-	R-29RM 3M37 DLKI-4	10 BB	-	K-51	UNKPL	-	-	-	1000?	-	-
1985-S304	2446381.50	1985 Nov 12	Shtil'	-	-	R-29RM 3M37 DLKI-5	10 BB	-	K-84	UNKPL	-	-	-	1000?	-	-
1985-S305	2446381.50	1985 Nov 12	Shtil'	-	-	R-29RM 3M37 DLKI-6	10 BB	-	K-84	UNKPL	-	-	-	1000?	-	-
1986-S208	2446430.50	1986	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-44	NPOLE	-	-	-	1000?	-	Kura?
1986-S209	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-1	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura
1986-S210	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-2	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?
1986-S211	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-3	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?
1986-S212	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-4	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-S213	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-5	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?
1986-S214	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-6	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?
1986-S215	2446430.50	1986	Volna	-	-	R-29R 3M40KU LKI-7	7 BB	-	PLBR	UNKPL	-	-	-	1000?	-	Kura?
1986-S206	2446430.50	1986	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	K-51	UNKPL	-	-	-	1000?	-	-
1986-A24	2446430.50	1986	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	K-51	UNKPL	-	-	-	0?	-	(Kura)
1986-S207	2446430.50	1986	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	K-51	UNKPL	-	-	-	1000?	-	Pacific
1986-A25	2446430.50	1986	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-193	UNKPL	-	-	-	1000?	-	-
1986-A23	2446569.50	1986 May 19	Volna	-	-	R-29R 3M40K UBP	7 BB	-	K-424	BLA	-	-	-	0?	-	(Kura)
1986-A22	2446642.50	1986 Aug?	Vysota	-	-	R-29 4K75D UBP	MGCh	-	K-92	UNKPL	-	-	-	0?	-	-
1986-S87	2446673.50	1986 Sep	Vysota	-	-	R-29 4K75D UBP	MGCh	-	DELTA2	BLA	-	-	-	1000?	-	Kura?
1987-S269	2446795.50	1987	Volna	-	-	R-29R 3M40KU UBP	7 BB	-	K-506	OMLA?	-	-	-	1000?	-	Chiza?
1987-S270	2446795.50	1987	Volna	-	-	R-29R 3M40KU UBP	7 BB	-	K-223	OMLA?	-	-	-	1000?	-	Chiza?
1987-S264	2446795.50	1987	Volna	-	-	R-29R 3M40KU UBP	7 BB	-	K-506	OMLA?	-	-	-	1000?	-	Chiza?
1987-S265	2446795.50	1987	Volna	-	-	R-29R 3M40KU UBP	7 BB	-	K-223	OMLA?	-	-	-	1000?	-	Chiza?
1987-S258	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	K-51	UNKPL	-	-	-	1000?	-	-
1987-S259	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S260	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S261	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37 RV Test	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S246	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-1	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S247	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-2	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S248	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-3	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S249	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-4	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S250	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-5	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S251	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-6	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S252	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-7	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S253	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-8	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S254	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-9	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S255	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-10	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S256	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-11	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S257	2447007.50	1987 Aug?	Shtil'	-	-	R-29RM 3M37U LKI-12	4 BB 3G95	-	PLBR	UNKPL	-	-	-	1000?	-	-
1987-S242	2447055.95	1987 Sep 17 1052	Shtil'	-	-	R-29RM 3M37U LKI-13	4 BB 3G95	-	K-51	NPOLE	-	-	-	0?	-	(Chiza)
1987-S243	2447056.01	1987 Sep 17 1212	Shtil'	-	-	R-29RM 3M37U LKI-14	4 BB 3G95	-	K-51	NPOLE	-	-	-	0?	-	(Chiza)
1987-S240	2447129.50	1987 Dec?	Shtil'	-	-	R-29RM 3M37U LKI-15	4 BB 3G95	-	PLBR	BLA?	-	-	-	1000?	-	Kura?
1988-A96	2447160.50	1988	Volna	-	-	R-29R 3M40KU-01 LKI-1	3 BB 3G95	-	K-424	NWSLA	-	-	-	1?	-	(Kura)
1988-S199	2447160.50	1988	Volna	-	-	R-29R 3M40KU-01 LKI-2	3 BB 3G95	-	K-424	NWSLA?	-	-	-	1000?	-	Kura
1988-S200	2447160.50	1988	Volna	-	-	R-29R 3M40KU-01 LKI-3	3 BB 3G95	-	K-424	NWSLA?	-	-	-	1000?	-	Kura
1988-S201	2447160.50	1988	Volna	-	-	R-29R 3M40KU-01 LKI-4	3 BB 3G95	-	K-424	NWSLA?	-	-	-	1000?	-	Kura
1988-S192	2447434.50	1988 Oct?	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-64	BELA	-	-	-	1000?	-	Kura
1989-S150	2447526.50	1989	Volna	-	-	R-29R 3M40KU-01 LKI-5	3 BB 3G95	-	K-424	BLA?	-	-	-	1000?	-	Kura
1989-S151	2447526.50	1989	Volna	-	-	R-29R 3M40KU-01 LKI-6	3 BB 3G95	-	K-424	BLA?	-	-	-	1000?	-	Kura
1989-S153	2447526.50	1989	Volna	-	-	R-29R 3M40KU-01 LKI-7	3 BB 3G95	-	K-424	BLA?	-	-	-	1000?	-	Kura
1989-S145	2447677.50	1989 Jun	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-84	BLA	-	-	-	1000?	-	Kura
1989-S146	2447677.50	1989 Jun	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-84	BLA	-	-	-	1000?	-	Kura
1989-S147	2447677.50	1989 Jun	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-84	BLA	-	-	-	1000?	-	Kura
1989-S143	2447762.50	1989 Aug 24	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-18	BLA	-	-	-	1000?	-	Kura
1989-S144	2447763.27	1989 Aug 24 1830	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-18	BLA	-	-	-	1000?	-	Kura
1989-S141	2447818.50	1989 Oct 19	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	PLBR	BLA	-	-	-	1000?	-	Pacific
1989-S142	2447825.50	1989 Oct 26	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	PLBR	BLA	-	-	-	1000?	-	Pacific
1990-S212	2447891.50	1990	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-193	BLA	-	-	-	1000?	-	Kura
1990-S213	2447891.50	1990	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-193	BLA	-	-	-	1000?	-	Kura
1990-S211	2448000.50	1990 Apr 19	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	PLBR	BLA	-	-	-	1000?	-	Kura
1990-S210	2448061.50	1990 Jun 19	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	PLBR	BLA	-	-	-	1000?	-	Kura
1991-S223	2448451.50	1991 Jul 14	Shtil'	-	-	R-29RM 3M37U	4 BB 3G95	Begemot-2 test	K-407	BLA	-	-	-	1000?	-	Kura
1991-S221	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	4 BB 3G95 Begemot-2-1	-	K-407	BLA	-	-	-	1000?	-	Kura
1991-S222	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	4 BB 3G95 Begemot-2-2	-	K-407	BLA	-	-	-	1000?	-	Kura
1991-A14	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-3	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A15	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-4	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A16	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-5	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A17	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-6	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A18	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-7	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A19	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-8	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A20	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-9	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A21	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-10	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A22	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-11	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A23	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-12	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A24	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-13	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A25	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-14	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A26	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-15	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-A27	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	R-29RM 3M37U	Begemot-2-16	3M37BK destruct	K-407	BLA	-	-	-	10?	-	BLA
1991-S177	2448590.50	1991 Dec	Volna	-	VMF	-	-	-	KALMAR	UNKPL	-	-	-	1000?	-	-
1992-S10	2448773.50	1992 Jun?	Vysota	?	VMF RF	R-29 4K75DU UBP	MGCh	-	K-92	BLA	-	-	-	1000?	-	Kura
1993-S83	2448987.50	1993	Volna	-	-	R-29R 3M40KU-01 UBP	-	-	K-490	UNKPL	-	-	-	1000?	-	-
1993-S74	2449321.50	1993 Dec	Volna	-	VMF RF	-	-	-	KALMAR	UNKPL	-	-	-	1000?	-	-
1994-S104	2449352.50	1994	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-421	BLA	-	-	-	1000?	-	Kura
1995-S42	2449875.42	1995 Jun 6 2210	Volna	-	VMF RF	Volan	Tech Module	-	K-44	BLA	-	-	-	1270	-	Kura
1995-S96	2449960.50	1995 Sep	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1995-S97	2449960.50	1995 Sep	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1996-S34	2450262.50	1996 Jun 28	Volna	?	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	K-223	OMLA	-	-	-	1000?	-	Chiza
1996-S35	2450262.50	1996 Jun 28	Volna	?	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	K-211	OMLA	-	-	-	1000?	-	Chiza
1996-S36	2450262.50	1996 Jun 28	Vysota	?	-	R-29 4K75DU UBP	MGCh	-	K-530	OMLA	-	-	-	1000?	-	Chiza
1996-S39	2450279.50	1996 Jul 15	Vysota	-	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1996-S86	2450279.50	1996 Jul 15	Vysota	-	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1996-S87	2450279.50	1996 Jul 15	Vysota	-	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1996-S40	2450279.50	1996 Jul 15	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-407	BLA	-	-	-	1000?	-	Kura
1996-S85	2450356.50	1996 Oct?	Volna	-	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1996-S59	2450359.50	1996 Oct 3	Shtil'	?	-	R-29RM 3M37U UBP	4 BB 3G95	-	PLBR	BLA	-	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-S03	2450463.50	1997 Jan 15	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	KALMAR	BLA	-	-	-	1000?	-	Kura
1997-S51	2450652.50	1997 Jul 23	Volna	?	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	PLBR	OMLA?	-	-	-	1000?	-	Chiza
1997-S82	2450693.50	1997 Sep 2	Volna	-	-	R-29 4K75DU UBP	MGCh	-	K-457	BLA	-	-	-	1000?	-	Kura
1997-S80	2450724.50	1997 Oct 3	Vysota	-	-	R-29 4K75DU UBP	Souvenir container	Jubilee launch	K-447	BLA	-	-	-	1000?	-	Kura
1997-S81	2450752.50	1997 Nov?	Volna	?	-	R-29 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1998-S15	2450863.50	1998 Feb 19	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	DELTA4	BLA	-	-	-	1000?	-	Kura
1998-S16	2450863.50	1998 Feb 19	Shtil'	-	-	R-29RM 3M37U UBP	4 BB 3G95	-	DELTA4	BLA	-	-	-	1000?	-	Kura
1998-S73	2450994.50	1998 Jul?	Volna	-	-	R-29R 4K75DU UBP	MGCh	-	K-447	BLA	-	-	-	1000?	-	Kura
1998-042	2451001.64	1998 Jul 7 0315:00	Shtil'-1	-	L-1492-524	TUBSAT-N	Tubsat-N	-	K-407	BLA	LP1	-	-	809	-	-
1998-S51	2451046.50	1998 Aug 21	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	PLBR	BLA	-	-	-	1000?	-	Kura
1999-S22	2451269.50	1999 Apr 1	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	K-496	BLA	-	-	-	1000?	-	Kura
1999-S64	2451452.75	1999 Oct 1 0557	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	K-211	OMLA	-	-	-	1000?	-	Chizha
1999-A04	2451452.74	1999 Oct 1 0545	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	3M40KU-01	K-44	BLA	-	-	-	10?	-	(Kura)
2000-S14	2451630.75	2000 Mar 27 0600	Shtil'	-	-	R-29RM 3M37U	4 BB 3G95	-	K-18	BLA	-	-	-	1000?	-	Kura
2000-S15	2451630.88	2000 Mar 27 0900	Shtil'	-	-	R-29RM 3M37U	4 BB 3G95	-	K-18	BLA	-	-	-	1000?	-	Kura
2000-S19	2451640.73	2000 Apr 6 0530	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	-	K-496	BLA	-	-	-	1000?	-	Kura
2000-S50	2451797.50	2000 Sep 10	Sineva	-	VMF RF	R-29RM 3M37U1 LKI-1	4 BB	Shtil?	K-18	BLA	-	-	-	1000?	-	Kura
2000-S68	2451905.83	2000 Dec 27 0800	Shtil'	?	-	R-29RM 3M37U UBP	4 BB 3G95	-	K-407	BLA	-	-	-	1000?	-	Kura
2001-S09	2451956.94	2001 Feb 16 1028	Shtil'	?	-	R-29RM 3M37U1 LKI-2	4 BB	-	K-407	BLA	-	-	-	1000?	-	Kura
2001-S23	2452065.98	2001 Jun 5 1132	Shtil'	?	VMF RF	R-29RM 3M37U1 LKI-3	4 BB	-	K-51	BLA	-	-	-	1000?	-	Kura
2001-S37	2452110.52	2001 Jul 20 0031	Volna	-	P-1491-210	Cosmos 1 Solar Sail	-	-	K-496	BLA	-	-	-	412	-	Kura
2001-S41	2452170.50	2001 Sep 18	Volna	?	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-223	OMLA	-	-	-	1000?	-	Chizha
2001-S42	2452179.50	2001 Sep 27	Shtil'	?	VMF RF	-	-	-	TK-20	BLA	-	-	-	1000?	-	Kura
2001-S43	2452179.50	2001 Sep 27	Shtil'	?	VMF RF	-	-	-	TK-20	BLA	-	-	-	1000?	-	Kura
2002-S53	2452467.54	2002 Jul 12 0058:31	Volna	-	-	R-29R	IRDT-2	-	K-44	BLA	-	-	-	200?	-	Kura
2002-S63	2452559.88	2002 Oct 12 0912	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	PLBR	OMLA	-	-	-	1000?	-	Chizha
2002-S65	2452559.91	2002 Oct 12 0955	Shtil'	?	VMF RF	R-29RM 3M37U	4 BB 3G95	Shtil?	TK-20	BLA	-	-	-	1000?	-	Kura
2003-S55	2452884.85	2003 Sep 2 0823	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-506	OMLA	-	-	-	1000?	-	Chizha
2003-S63	2452979.34	2003 Dec 5 2005	Sineva	-	-	R-29RM 3M37U2 LKI-1	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2003-S64	2452999.96	2003 Dec 26 1100	Sineva	-	-	R-29RM 3M37U2 LKI-2	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2004-A01	2453053.88	2004 Feb 18 0900	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	-	K-18	BLA	-	-	-	10?	-	(Kura)
2004-S12	2453082.01	2004 Mar 17 1208	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	-	K-407	BLA	-	-	-	1000?	-	Kura
2004-S13	2453082.08	2004 Mar 17 1400	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	-	K-407	BLA	-	-	-	1000?	-	Kura
2004-S24	2453185.81	2004 Jun 29 0725	Sineva	?	-	R-29RM 3M37U2 LKI-3	4 BB	Shtil?	K-84	BLA	-	-	-	1000?	-	Kura
2004-S42	2453256.73	2004 Sep 8 0538	Shtil'	-	-	R-29RM 3M37U1 UBP	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2004-S43	2453256.82	2004 Sep 8 0738	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	-	K-496	BLA	-	-	-	1000?	-	Kura
2004-S63	2453311.89	2004 Nov 2 0925	Volna	-	-	R-29RKU-01 UBP	3 BB 3G95	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2005-F02	2453543.32	2005 Jun 21 1946:09	Volna	-	M-1491-035	Cosmos-1/Dem-2R	TPS Solar Sail	-	K-496	BLA	-	-	-	850?	-	-
2005-S33	2453599.80	2005 Aug 17 0706	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2005-S41	2453643.85	2005 Sep 30 0822	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2005-S43	2453644.50	2005 Oct 1?	Volna	?	VMF RF	R-29RKU-02 LKI	3 BB	-	K-496	BLA	-	-	-	1000?	-	Kura
2005-S42	2453650.40	2005 Oct 6 2130:04	Volna	-	P-1491-205	IRDT-2R	-	-	K-496	BLA	-	-	-	200?	-	Kura
2006-019	2453882.28	2006 May 26 1850	Shtil'-1	-	-	Kompas-2	Vulkan-Kompas-2	-	K-84	BLA	-	-	-	524	-	-
2006-S32	2453916.77	2006 Jun 30 0625	Sineva	-	VMF RF	R-29RM 3M37U1	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2006-S51	2453987.97	2006 Sep 9 1120	Sineva	-	VMF RF	R-29RM 3M37U1	4 BB	-	K-84	NPOLE	-	-	-	1000?	-	Chizha
2006-S53	2453989.12	2006 Sep 10 1450	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-433	SIMLA	-	-	-	1000?	-	Chizha
2007-S40	2454319.50	2007 Aug 7	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-211	OMLA	-	-	-	1000?	-	Chizha
2007-S64	2454451.50	2007 Dec 17	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	Shtil?	K-114	BLA	-	-	-	1000?	-	Kura
2007-S65	2454459.92	2007 Dec 25 1000	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2008-S36	2454679.88	2008 Aug 1 0900	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-44	BLA	-	-	-	1000?	-	Kura
2008-S46	2454750.83	2008 Oct 11 0800	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Pacific
2008-S49	2454751.78	2008 Oct 12 0650	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-506	OMLA	-	-	-	1000?	-	Chizha
2008-S48	2454751.81	2008 Oct 12 0730	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2009-S33	2455025.56	2009 Jul 13 0120	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-84	BFJL	-	-	-	1000?	-	Kura
2009-S34	2455026.49	2009 Jul 13 2350	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-117	NPOLE	-	-	-	1500?	-	Chizha
2009-S50	2455110.78	2009 Oct 6 0637	Volna	-	VMF RF	R-29RKU-01 UBP	3 BB 3G95	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2009-S51	2455111.77	2009 Oct 7 0630	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-44	OMLA	-	-	-	1000?	-	Chizha
2009-S54	2455136.81	2009 Nov 1 0730	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2010-S21	2455259.70	2010 Mar 4 0450	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2010-S51	2455415.14	2010 Aug 6 1515	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2010-S52	2455415.14	2010 Aug 6 1516	Sineva	-	VMF RF	R-29RM 3M37U1 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2010-S63	2455497.94	2010 Oct 28 1030	Sineva	-	VMF RF	R-29RM 3M37U1	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2010-S64	2455497.93	2010 Oct 28 1017	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2011-S14	2455678.22	2011 Apr 26 1711	Sineva	-	VMF RF	R-29RM 3M37U2	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2011-S17	2455702.12	2011 May 20 1450	Layner	-	VMF RF/LAYNER	R-29RM 3M37U2.1 LKI-1	10 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2011-S34	2455770.05	2011 Jul 27 1306	Sineva	-	VMF RF	R-29RM 3M37U2 K.	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2011-S43	2455834.22	2011 Sep 29 1720	Layner	-	VMF RF	R-29RM 3M37U2.1 LKI-2	10 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2012-S58	2456219.89	2012 Oct 19 0925	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2013-S113	2456379.52	2013 Mar 28 0030	Sineva	-	VMF RF	R-29RM 3M37U2 K.	4 BB	-	K-84	BLA	-	-	-	1000?	-	Kura
2013-S96	2456595.94	2013 Oct 30 1039	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2013-S95	2456595.97	2013 Oct 30 1110	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2014-S23	2456785.50	2014 May 8	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-223	OMLA	-	-	-	1000?	-	Chizha
2014-S22	2456785.50	2014 May 8	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	Shtil?	K-114	BLA	-	-	-	1000?	-	Kura
2014-S68	2456966.77	2014 Nov 5 0630?	Sineva	-	VMF RF	R-29RM 3M37U2 K.	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura
2015-S58	2457325.93	2015 Oct 30 1026	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2015-S59	2457325.94	2015 Oct 30 1028	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-223	OMLA	-	-	-	1000?	-	Chizha
2015-S90	2457368.84	2015 Dec 12 0805	Sineva	-	VMF RF	R-29RM 3M37U2 K.	4 BB	-	K-51	BLA	-	-	-	1000?	-	Kura
2016-S61	2457673.94	2016 Oct 12 1032	Volna	-	VMF RF	R-29RKU-02 3M40KU-02 UBP	3 BB	-	K-433	OMLA	-	-	-	1000?	-	Chizha
2016-S62	2457673.96	2016 Oct 12 1104	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-407	BLA	-	-	-	1000?	-	Kura
2016-S81	2457701.96	2016 Nov 9 1107	Sineva	-	VMF RF	R-29RM 3M37U2 K.	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2017-S91	2458053.13	2017 Oct 26 1507:21	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-117	BLA	-	-	-	1000?	-	Kura
2017-S92	2458053.13	2017 Oct 26 1507:20	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-44	OMLA	-	-	-	1000?	-	Chizha
2017-S93	2458053.13	2017 Oct 26 1507:33	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-44	OMLA	-	-	-	1000?	-	Chizha
2018-S63	2458402.93	2018 Oct 11 1014	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	-	K-44	OMLA	-	-	-	1000?	-	Chizha
2018-S64	2458402.93	2018 Oct 11 1014?	Volna	?	VMF RF	-	-	-	K-44?	OMLA	-	-	-	1000?	-	Chizha
2018-S61	2458402.94	2018 Oct 11 1027	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB	-	K-114	BLA	-	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-S62	2458402.94	2018 Oct 11 1027?	Sineva	?	VMF RF	R-29RM 3M37U2 UBP	-	-	K-114?	BLA	-	-	-	1000?	-	Kura
2019-S50	2458719.50	2019 Aug 24	Sineva	-	VMF RF	R-29RM 3M37U2 UBP	4 BB?	-	K-114	NPOLE	-	-	-	1000?	-	Chizha
2019-S62	2458773.50	2019 Oct 17?	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	Grom-2019	K-18	BLA	-	-	-	1000?	-	Kura
2019-S63	2458773.50	2019 Oct 17?	Volna	-	VMF RF	R-29RKU-02 UBP	3 BB	Grom-2019	K-44	OMLA	-	-	-	1000?	-	Chizha
2020-S46	2459192.50	2020 Dec 9	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	-	K-18	BLA	-	-	-	1000?	-	Kura
2022-S16	2459629.50	2022 Feb 19	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	-	K-18	BLA	-	-	-	1000?	-	Kura
2022-S118	2459878.50	2022 Oct 26	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	-	K-114	BLA	-	-	-	1000?	-	Kura
2023-S73	2460178.50	2023 Aug 22	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	Laptev Sea?	K-114	BLA?	-	-	-	1000?	-	Chiza
2023-S58	2460242.50	2023 Oct 25	Sineva	-	-	R-29RM 3M37U2 UBP	4 BB?	-	K-114	BLA	-	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A169	2439756.50	1967 Sep 23	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1967-A170	2439763.50	1967 Q4?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A139	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A140	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A141	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A142	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A143	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A144	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1968-A145	2439915.50	1968 Mar?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S375	2440393.50	1969 Jun 21	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S158	2440402.50	1969 Q3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S805	2440402.50	1969 Q3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S806	2440402.50	1969 Q3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S807	2440402.50	1969 Q3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S808	2440402.50	1969 Q3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S796	2440555.50	1969 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-A230	2440555.50	1969 Dec?	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1969-S797	2440555.50	1969 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1969-S798	2440555.50	1969 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-A189	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1970-S715	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S753	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S754	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S755	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S756	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S757	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S758	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1970-S759	2440920.50	1970 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1971-S23	2441285.50	1971 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	www.fas.org	-
1971-S608	2441310.50	1971 Dec 25	Vysota	-	R-29	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S452	2441316.50	1972 Jan?	Vysota	-	R-29	0.000	VMF	MS	-	-	Test	Taras	-	-
1972-S453	2441376.50	1972 Mar?	Vysota	-	R-29	0.000	VMF	MS	-	-	Test	Taras	-	-
1972-S454	2441407.50	1972 Apr?	Vysota	-	R-29	0.000	VMF	MS	-	-	Test	Taras	-	-
1972-S275	2441550.50	1972 Aug 21	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S298	2441560.50	1972 Sep?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S328	2441560.50	1972 Sep?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S785	2441560.50	1972 Sep?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S786	2441560.50	1972 Sep?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S404	2441646.50	1972 Nov 25	Vysota	-	-	0.000	VMF	MS	-	-	Test	www.fas.org	-	-
1972-S406	2441649.50	1972 Nov 28	Vysota	-	-	0.000	VMF	MS	-	-	Test	www.fas.org	-	-
1972-S407	2441649.50	1972 Nov 28	Vysota	-	-	0.000	VMF	MS	-	-	Test	www.fas.org	-	-
1972-S768	2441651.50	1972 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S769	2441651.50	1972 Dec?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S437	2441665.50	1972 Dec 14	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S438	2441665.50	1972 Dec 14	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S439	2441665.50	1972 Dec 14	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1972-S440	2441665.50	1972 Dec 14	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S593	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S594	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S595	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S596	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S597	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S598	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S599	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S600	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S601	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S602	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S603	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S604	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1973-S605	2441682.50	1973	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S569	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S570	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S571	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S572	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S573	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S574	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S575	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S576	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S577	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S578	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S579	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S580	2442137.50	1974 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S556	2442259.50	1974 Aug?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S289	2442259.50	1974 Aug?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1974-S436	2442322.50	1974 Oct 2	Vysota	-	-	0.000	VMF	MS	-	-	Test	SFLT16-463	AWST741021-15	-
1974-S437	2442322.50	1974 Oct 2	Vysota	-	-	0.000	VMF	MS	-	-	Test	SFLT16-463	AWST741021-15	-
1975-S443	2442412.50	1975	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1975-S445	2442412.50	1975	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1975-S437	2442502.50	1975 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1975-S434	2442593.50	1975 Jul	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1975-S435	2442593.50	1975 Jul	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1975-A82	2442710.50	1975 Oct 25?	Volna	-	VMF	0.000	VMF	MF	U	-	Test	RML	-	-
1975-A83	2442710.50	1975 Oct 25?	Volna	-	VMF	0.000	VMF	MF	U	-	Test	RML	-	-
1975-A84	2442710.50	1975 Oct 25?	Volna	-	VMF	0.000	VMF	MF	U	-	Test	RML	-	-
1975-S15	2442710.50	1975 Oct 25?	Volna	-	VMF	0.000	VMF	MF	U	-	Test	RML	-	-
1976-S487	2442777.50	1976	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A134	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-A135	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-A136	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-A137	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-S463	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-A138	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-A139	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-A140	2442898.50	1976 May	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-S464	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S465	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S466	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S467	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S468	2442898.50	1976 May	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S457	2443082.50	1976 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S458	2443082.50	1976 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S459	2443082.50	1976 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S460	2443082.50	1976 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-A132	2443082.50	1976 Nov	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1976-S454	2443082.50	1976 Nov	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S455	2443082.50	1976 Nov	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S456	2443082.50	1976 Nov	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S317	2443098.50	1976 Nov 16	Volna	-	VMF	0.000	VMF	MS	-	-	Test	RML	-	-
1976-S21	2443112.50	1976 Dec?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1976-S449	2443121.50	1976 Dec 9	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1976-S450	2443123.50	1976 Dec 11	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1976-S451	2443123.50	1976 Dec 11	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1976-S452	2443123.50	1976 Dec 11	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1976-S453	2443123.50	1976 Dec 11	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1977-S117	2443220.50	1977 Mar 18	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S121	2443222.50	1977 Mar 20	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S20	2443326.50	1977 Jul 2?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S473	2443327.50	1977 Jul 3?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S470	2443386.50	1977 Sep	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S272	2443447.50	1977 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S273	2443447.50	1977 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S274	2443447.50	1977 Nov	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S291	2443477.50	1977 Dec	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S458	2443477.50	1977 Dec	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S459	2443477.50	1977 Dec	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S460	2443477.50	1977 Dec	Volna	-	VMF	0.000	VMF	MS	-	-	Test	RML	-	-
1977-S461	2443477.50	1977 Dec	Volna	-	VMF	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S360	2443508.50	1978?	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S363	2443508.50	1978?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S351	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S352	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S353	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S354	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S355	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S356	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S357	2443539.50	1978 Feb	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S346	2443598.50	1978 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1978-S204	2443778.50	1978 Sep 27	Volna	-	VMF	0.000	VMF	MS	-	-	Test	RML	-	-
1979-S757	2443873.50	1979	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1979-S763	2443873.50	1979	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1979-S764	2443873.50	1979	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1980-A61	2444238.50	1980	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1980-S301	2444373.50	1980 May 14?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1980-S302	2444373.50	1980 May 14?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1980-S300	2444390.50	1980 Jun?	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1980-S297	2444420.50	1980 Jul	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1980-S14	2444451.50	1980 Aug?	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S270	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S271	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S272	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S273	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S274	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S275	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S276	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S277	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S278	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S279	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S280	2444604.50	1981	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1981-S26	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S27	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S28	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S29	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S262	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S263	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S264	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S265	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S266	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S267	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S268	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S269	2444663.50	1981 Mar?	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S30	2444788.50	1981 Jul 3	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-S31	2444788.50	1981 Jul 3	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-S32	2444908.50	1981 Nov	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1981-A39	2444908.50	1981 Nov?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S307	2444969.50	1982?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1982-A49	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A51	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A52	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A53	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A54	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A55	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A56	2444969.50	1982 Jan?	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S304	2444998.50	1982 Jan 29?	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S305	2444999.50	1982 Jan 30?	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S306	2445000.50	1982 Jan 31?	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S301	2445082.50	1982 Apr 23	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S302	2445082.50	1982 Apr 23	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-S296	2445138.50	1982 Jun 18	Vysota	-	-	0.000	VMF	MS	-	-	ABM Target	RML	-	-
1982-S295	2445251.50	1982 Oct 9	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1982-A50	2445273.50	1982 Nov	Shtil'	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1983-S338	2445334.50	1983	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1983-S339	2445334.50	1983	Vysota	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1983-S340	2445334.50	1983	Volna	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
1983-A58	2445479.50	1983 May 25	Volna	-	-	0.000	VMF	MF	U	-	OT	RML	-	-
1983-S107	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S317	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S318	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S319	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S320	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S321	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S322	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S323	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S324	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S325	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S326	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S327	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S328	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S329	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S316	2445485.50	1983 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1983-S315	2445690.50	1983 Dec 22	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S318	2445699.50	1984	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S317	2445752.50	1984 Feb 22	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S315	2445790.50	1984 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S314	2445801.50	1984 Apr 11	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S313	2445881.50	1984 Jul?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S312	2445943.50	1984 Sep?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S142	2445950.80	1984 Sep 7 0710	Volna	-	VMF	0.000	VMF	MS	-	-	OT	SkepInq0901-35	Oberg	UFO sighting
1984-S296	2445970.50	1984 Sep 27	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S290	2446002.50	1984 Oct 29	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1984-S291	2446003.50	1984 Oct 30	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1984-S292	2446020.50	1984 Nov 16	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S293	2446021.50	1984 Nov 17	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S294	2446024.50	1984 Nov 20	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S295	2446031.50	1984 Nov 27	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S284	2446053.50	1984 Dec 19	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S285	2446053.50	1984 Dec 19	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S286	2446060.50	1984 Dec 26	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S287	2446060.50	1984 Dec 26	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S288	2446060.50	1984 Dec 26	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1984-S289	2446060.50	1984 Dec 26	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S336	2446065.50	1985	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S337	2446065.50	1985	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S314	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S315	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S316	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S317	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S318	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S319	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S320	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S321	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S322	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S323	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S324	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S325	2446155.50	1985 Apr?	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S313	2446246.50	1985 Jul	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1985-A23	2446273.50	1985 Jul 27	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1985-S312	2446273.50	1985 Jul 27	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1985-S310	2446295.50	1985 Aug 18?	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S311	2446295.50	1985 Aug 18?	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S306	2446361.50	1985 Oct 23	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S307	2446361.50	1985 Oct 23	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S304	2446381.50	1985 Nov 12	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S305	2446381.50	1985 Nov 12	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S208	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S209	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S210	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S211	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S212	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-S213	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S214	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S215	2446430.50	1986	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S206	2446430.50	1986	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-A24	2446430.50	1986	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1986-S207	2446430.50	1986	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-A25	2446430.50	1986	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-A23	2446569.50	1986 May 19	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1986-A22	2446642.50	1986 Aug?	Vysota	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1986-S87	2446673.50	1986 Sep	Vysota	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S269	2446795.50	1987	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S270	2446795.50	1987	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S264	2446795.50	1987	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S265	2446795.50	1987	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S258	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S259	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S260	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S261	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S246	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S247	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S248	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S249	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S250	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S251	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S252	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S253	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S254	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S255	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S256	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S257	2447007.50	1987 Aug?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1987-S242	2447055.95	1987 Sep 17 1052	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1987-S243	2447056.01	1987 Sep 17 1212	Shtil'	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1987-S240	2447129.50	1987 Dec?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1988-A96	2447160.50	1988	Volna	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1988-S199	2447160.50	1988	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1988-S200	2447160.50	1988	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1988-S201	2447160.50	1988	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1988-S192	2447434.50	1988 Oct?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S150	2447526.50	1989	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S151	2447526.50	1989	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S153	2447526.50	1989	Volna	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S145	2447677.50	1989 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S146	2447677.50	1989 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S147	2447677.50	1989 Jun	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S143	2447762.50	1989 Aug 24	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S144	2447763.27	1989 Aug 24 1830	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S141	2447818.50	1989 Oct 19	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1989-S142	2447825.50	1989 Oct 26	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1990-S212	2447891.50	1990	Vysota	?	-	0.000	VMF	MS	-	-	Test	RML	-	-
1990-S213	2447891.50	1990	Vysota	?	-	0.000	VMF	MS	-	-	Test	RML	-	-
1990-S211	2448000.50	1990 Apr 19	Vysota	?	-	0.000	VMF	MS	-	-	Test	RML	-	-
1990-S210	2448061.50	1990 Jun 19	Vysota	?	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-S223	2448451.50	1991 Jul 14	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-S221	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-S222	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A14	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A15	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A16	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A17	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A18	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A19	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A20	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A21	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A22	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A23	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A24	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A25	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A26	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-A27	2448477.26	1991 Aug 8 1810?	Shtil'	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1991-S177	2448590.50	1991 Dec	Volna	-	VMF	0.000	VMF	MS	-	-	OT	SFLT38-257	-	-
1992-S10	2448773.50	1992 Jun?	Vysota	?	VMF RF	0.000	VMFR	MS	-	-	OT	RML	SFLT38-257	-
1993-S83	2448987.50	1993	Volna	-	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1993-S74	2449321.50	1993 Dec	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	SFLT38-257	-	-
1994-S104	2449352.50	1994	Vysota	?	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1995-S42	2449875.42	1995 Jun 6 2210	Volna	-	VMF RF	0.000	VMFR	MS	-	-	Test?	Rigg	SFLT38-257	-
1995-S96	2449960.50	1995 Sep	Vysota	?	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1995-S97	2449960.50	1995 Sep	Vysota	?	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1996-S34	2450262.50	1996 Jun 28	Volna	?	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S35	2450262.50	1996 Jun 28	Volna	?	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S36	2450262.50	1996 Jun 28	Vysota	?	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S39	2450279.50	1996 Jul 15	Vysota	-	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S86	2450279.50	1996 Jul 15	Vysota	-	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S87	2450279.50	1996 Jul 15	Vysota	-	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S40	2450279.50	1996 Jul 15	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S85	2450356.50	1996 Oct?	Volna	-	-	0.000	VMFR	MS	-	-	OT	INTERFAX960716	RML	-
1996-S59	2450359.50	1996 Oct 3	Shtil'	?	-	0.000	VMFR	MS	-	-	OT	TASS961004	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-S03	2450463.50	1997 Jan 15	Volna	-	-	0.000	VMFR	MS	-	-	OT	TASS970117	-	-
1997-S51	2450652.50	1997 Jul 23	Volna	?	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1997-S82	2450693.50	1997 Sep 2	Volna	-	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1997-S80	2450724.50	1997 Oct 3	Vysota	-	-	0.000	VMFR	MS	-	-	OT	FDC	-	-
1997-S81	2450752.50	1997 Nov?	Volna	?	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1998-S15	2450863.50	1998 Feb 19	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1998-S16	2450863.50	1998 Feb 19	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1998-S73	2450994.50	1998 Jul?	Volna	-	-	0.000	VMFR	MS	-	-	OT	RML	-	-
1998-042	2451001.64	1998 Jul 7 0315:00	Shtil'-1	-	L-1492-524	0.107	VMFR	OS	-	G	Sat LEO O 2	NK9815-15	-	-
1998-S51	2451046.50	1998 Aug 21	Volna	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1999-S22	2451269.50	1999 Apr 1	Volna	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1999-S64	2451452.75	1999 Oct 1 0557	Volna	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
1999-A04	2451452.74	1999 Oct 1 0545	Volna	-	-	0.000	VMFR	MF	U	-	OT	www.nti.org	-	-
2000-S14	2451630.75	2000 Mar 27 0600	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
2000-S15	2451630.88	2000 Mar 27 0900	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	www.nti.org	-	-
2000-S19	2451640.73	2000 Apr 6 0530	Volna	-	-	0.000	VMFR	MS	-	-	OT	RML	www.orbireport.com	-
2000-S50	2451797.50	2000 Sep 10	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	AirEtCosmos	-
2000-S68	2451905.83	2000 Dec 27 0800	Shtil'	?	-	0.000	VMFR	MS	-	-	OT	orbireport.com	www.nti.org	-
2001-S09	2451956.94	2001 Feb 16 1028	Shtil'	?	-	0.000	VMFR	MS	-	-	OT	russianspaceweb.com	-	-
2001-S23	2452065.98	2001 Jun 5 1132	Shtil'	?	VMF RF	0.000	VMFR	MS	-	-	OT	russianspaceweb.com	-	-
2001-S37	2452110.52	2001 Jul 20 0031	Volna	-	P-1491-210	0.000	VMFR	SS	-	TPS/	SC Test	NK0109-41	-	-
2001-S41	2452170.50	2001 Sep 18	Volna	?	VMF RF	0.000	VMFR	MS	-	-	OT	orbireport.com	-	-
2001-S42	2452179.50	2001 Sep 27	Shtil'	?	VMF RF	0.000	VMFR	MS	-	-	OT	www.nti.org	-	Not in RML
2001-S43	2452179.50	2001 Sep 27	Shtil'	?	VMF RF	0.000	VMFR	MS	-	-	OT	www.nti.org	-	Not in RML
2002-S53	2452467.54	2002 Jul 12 0058:31	Volna	-	-	0.000	VMFR	SS	-	ESTEC/NPOL/	Reentry Test	www.tsenki.ocm	-	-
2002-S63	2452559.88	2002 Oct 12 0912	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianspaceweb.com	-	-
2002-S65	2452559.91	2002 Oct 12 0955	Shtil'	?	VMF RF	0.000	VMFR	MS	-	-	OT	russianspaceweb.com	-	-
2003-S55	2452884.85	2003 Sep 2 0823	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	www.nti.org	-
2003-S63	2452979.34	2003 Dec 5 2005	Sineva	-	-	0.000	VMFR	MS	-	-	OT	RML	-	-
2003-S64	2452999.96	2003 Dec 26 1100	Sineva	-	-	0.000	VMFR	MS	-	-	OT	RML	-	-
2004-A01	2453053.88	2004 Feb 18 0900	Sineva	-	VMF RF	0.000	VMFR	MF	U	-	OT	RML	-	RSO 98s
2004-S12	2453082.01	2004 Mar 17 1208	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	lenta.ru	-	-
2004-S13	2453082.08	2004 Mar 17 1400	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	lenta.ru	-	few hrs later
2004-S24	2453185.81	2004 Jun 29 0725	Sineva	?	-	0.000	VMFR	MS	-	-	OT	NK-WWW	-	-
2004-S42	2453256.73	2004 Sep 8 0538	Shtil'	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2004-S43	2453256.82	2004 Sep 8 0738	Volna	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2004-S63	2453311.89	2004 Nov 2 0925	Volna	-	-	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2005-F02	2453543.32	2005 Jun 21 1946:09	Volna	-	M-1491-035	0.153	VMFR	OF	S1P	G	Sat LEO O 2	Wire	-	Fail T+1:23
2005-S33	2453599.80	2005 Aug 17 0706	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	Wire	-	-
2005-S41	2453643.85	2005 Sep 30 0822	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2005-S43	2453644.50	2005 Oct 1?	Volna	?	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2005-S42	2453650.40	2005 Oct 6 2130:04	Volna	-	P-1491-205	0.000	VMFR	SS	-	ESTEC/NPOL/	Reentry Test	NK0512-32	-	-
2006-019	2453882.28	2006 May 26 1850	Shtil'-1	-	-	0.175	VMFR	OS	-	G	Sat LEO O 2	NK0607-39	-	-
2006-S32	2453916.77	2006 Jun 30 0625	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	Wire	-	-
2006-S51	2453987.97	2006 Sep 9 1120	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2006-S53	2453989.12	2006 Sep 10 1450	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2007-S40	2454319.50	2007 Aug 7	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2007-S64	2454451.50	2007 Dec 17	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2007-S65	2454459.92	2007 Dec 25 1000	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2008-S36	2454679.88	2008 Aug 1 0900	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2008-S46	2454750.83	2008 Oct 11 0800	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2008-S49	2454751.78	2008 Oct 12 0650	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2008-S48	2454751.81	2008 Oct 12 0730	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	Wire	-	-
2009-S33	2455025.56	2009 Jul 13 0120	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2009-S34	2455026.49	2009 Jul 13 2350	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2009-S50	2455110.78	2009 Oct 6 0637	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2009-S51	2455111.77	2009 Oct 7 0630	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2009-S54	2455136.81	2009 Nov 1 0730	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2010-S21	2455259.70	2010 Mar 4 0450	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	Wire	-	-
2010-S51	2455415.14	2010 Aug 6 1515	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	federalspace.ru	-	-
2010-S52	2455415.14	2010 Aug 6 1516	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	federalspace.ru	-	-
2010-S63	2455497.94	2010 Oct 28 1030	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2010-S64	2455497.93	2010 Oct 28 1017	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2011-S14	2455678.22	2011 Apr 26 1711	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2011-S17	2455702.12	2011 May 20 1450	Layner	-	VMF RF/LAYNER	0.000	VMFR	MS	-	-	R&D	RML	russianforces.org	-
2011-S34	2455770.05	2011 Jul 27 1306	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2011-S43	2455834.22	2011 Sep 29 1720	Layner	-	VMF RF	0.000	VMFR	MS	-	-	R&D	RML	russianforces.org	-
2012-S58	2456219.89	2012 Oct 19 0925	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2013-S113	2456379.52	2013 Mar 28 0030	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2013-S96	2456595.94	2013 Oct 30 1039	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2013-S95	2456595.97	2013 Oct 30 1110	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2014-S23	2456785.50	2014 May 8	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2014-S22	2456785.50	2014 May 8	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2014-S68	2456966.77	2014 Nov 5 0630?	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2015-S58	2457325.93	2015 Oct 30 1026	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2015-S59	2457325.94	2015 Oct 30 1028	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2015-S90	2457368.84	2015 Dec 12 0805	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	-	-
2016-S61	2457673.94	2016 Oct 12 1032	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2016-S62	2457673.96	2016 Oct 12 1104	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2016-S81	2457701.96	2016 Nov 9 1107	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2017-S91	2458053.13	2017 Oct 26 1507:21	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2017-S92	2458053.13	2017 Oct 26 1507:20	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2017-S93	2458053.13	2017 Oct 26 1507:33	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2018-S63	2458402.93	2018 Oct 11 1014	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-
2018-S64	2458402.93	2018 Oct 11 1014?	Volna	?	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2018-S61	2458402.94	2018 Oct 11 1027	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	RML	russianforces.org	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-S62	2458402.94	2018 Oct 11 1027?	Sineva	?	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2019-S50	2458719.50	2019 Aug 24	Sineva	-	VMF RF	0.000	VMFR	MS	-	-	OT	russianforces.org	-	-
2019-S62	2458773.50	2019 Oct 17?	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2019-S63	2458773.50	2019 Oct 17?	Volna	-	VMF RF	0.000	VMFR	MS	-	-	OT	twitter.com/anik1982	-	-
2020-S46	2459192.50	2020 Dec 9	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2022-S16	2459629.50	2022 Feb 19	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2022-S118	2459878.50	2022 Oct 26	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2023-S73	2460178.50	2023 Aug 22	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-
2023-S58	2460242.50	2023 Oct 25	Sineva	-	-	0.000	VMFR	MS	-	-	OT	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A155	2441430.08	1972 Apr 22 1355	R-31	-	-	3M17 BR-I-1	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A156	2441437.50	1972 May?	R-31	-	-	3M17 BR-I-2	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A157	2441437.50	1972 May?	R-31	-	-	3M17 BR-I-3	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A158	2441437.50	1972 May?	R-31	-	-	3M17 BR-I-4	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A147	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-5	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A148	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-6	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A149	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-7	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A150	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-8	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A151	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-9	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A152	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-10	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1972-A153	2441621.50	1972 Nov	R-31	-	-	3M17 BR-I-11	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-A82	2442047.50	1974	R-31	-	-	3M17 BR-I-12	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-A83	2442047.50	1974	R-31	-	-	3M17 BR-I-13	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-A84	2442047.50	1974	R-31	-	-	3M17 BR-I-14	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-A85	2442047.50	1974	R-31	-	-	3M17 BR-I-15	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-A86	2442047.50	1974	R-31	-	-	3M17 BR-I-16	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1974-S398	2442405.50	1974 Dec 24	R-31	-	-	3M17 LKI-II-1	MGCh	-	-	NEN	NS-11	-	-	0	-	(Noril'sk)
1975-S16	2442412.50	1975	R-31	-	-	3M17 LKI-II-2	MGCh	-	-	NEN	NS-11	-	-	1000?	-	-
1975-S446	2442412.50	1975	R-31	-	-	3M17 LKI-II-3	MGCh	-	-	NEN	NS-11	-	-	1000?	-	-
1975-S447	2442412.50	1975	R-31	-	-	3M17 LKI-II-4	MGCh	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S492	2442777.50	1976	R-31	-	-	3M17 LKI-II-5	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S493	2442777.50	1976	R-31	-	-	3M17 LKI-II-6	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S494	2442777.50	1976	R-31	-	-	3M17 LKI-II-7	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S495	2442777.50	1976	R-31	-	-	3M17 LKI-II-8	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S496	2442777.50	1976	R-31	-	-	3M17 LKI-II-9	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S497	2442777.50	1976	R-31	-	-	3M17 LKI-II-10	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S498	2442777.50	1976	R-31	-	-	3M17 LKI-II-11	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S499	2442777.50	1976	R-31	-	-	3M17 LKI-II-12	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S500	2442777.50	1976	R-31	-	-	3M17 LKI-II-13	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S501	2442777.50	1976	R-31	-	-	3M17 LKI-II-14	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-S502	2442777.50	1976	R-31	-	-	3M17 LKI-II-15	-	-	-	NEN	NS-11	-	-	1000?	-	-
1976-A133	2443051.50	1976 Oct	R-31	-	-	3M17 BR-I-17	Eject test	-	-	CHM	PSD-5M	-	-	1	-	-
1976-S352	2443134.69	1976 Dec 22 0430	R-31	-	821	3M17 LKI-III-1	-	-	K-140	BELA	-	-	-	1000?	-	-
1977-S21	2443143.50	1977	R-31	-	-	3M17 LKI-III-2	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S477	2443143.50	1977	R-31	-	-	3M17 LKI-III-3	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S478	2443143.50	1977	R-31	-	-	3M17 LKI-III-4	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S479	2443143.50	1977	R-31	-	-	3M17 LKI-III-5	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S480	2443143.50	1977	R-31	-	-	3M17 LKI-III-6	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S481	2443143.50	1977	R-31	-	-	3M17 LKI-III-7	-	-	K-140	UNKPL	-	-	-	1000?	-	-
1977-S482	2443143.50	1977	R-31	-	-	3M17 LKI-II-16	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S483	2443143.50	1977	R-31	-	-	3M17 LKI-II-17	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S484	2443143.50	1977	R-31	-	-	3M17 LKI-II-18	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S485	2443143.50	1977	R-31	-	-	3M17 LKI-II-19	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S486	2443143.50	1977	R-31	-	-	3M17 LKI-II-20	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S487	2443143.50	1977	R-31	-	-	3M17 LKI-II-21	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S488	2443143.50	1977	R-31	-	-	3M17 LKI-II-22	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S489	2443143.50	1977	R-31	-	-	3M17 LKI-II-23	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S490	2443143.50	1977	R-31	-	-	3M17 LKI-II-24	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S491	2443143.50	1977	R-31	-	-	3M17 LKI-II-25	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S492	2443143.50	1977	R-31	-	-	3M17 LKI-II-26	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S493	2443143.50	1977	R-31	-	-	3M17 LKI-II-27	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S494	2443143.50	1977	R-31	-	-	3M17 LKI-II-28	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S495	2443143.50	1977	R-31	-	-	3M17 LKI-II-29	-	-	-	NEN	NS-11	-	-	1000?	-	-
1977-S496	2443143.50	1977	R-31	-	-	3M17 LKI-II-30	-	-	-	NEN	NS-11	-	-	1000?	-	-
1978-S14	2443508.50	1978	R-31	-	-	3M17 LKI-III-8	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S361	2443508.50	1978	R-31	-	-	3M17 LKI-II-31	MGCh	-	-	NEN	NS-11	-	-	1000?	-	-
1978-S374	2443508.50	1978	R-31	-	-	3M17 LKI-III-9	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S364	2443508.50	1978	R-31	-	-	3M17 LKI-III-10	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S365	2443508.50	1978	R-31	-	-	3M17 LKI-III-11	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S366	2443508.50	1978	R-31	-	-	3M17 LKI-III-12	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S367	2443508.50	1978	R-31	-	-	3M17 LKI-III-13	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1978-S368	2443508.50	1978	R-31	-	-	3M17 LKI-III-14	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S758	2443873.50	1979	R-31	-	-	3M17 LKI-III-15	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S759	2443873.50	1979	R-31	-	-	3M17 LKI-III-16	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S760	2443873.50	1979	R-31	-	-	3M17 LKI-III-17	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S761	2443873.50	1979	R-31	-	-	3M17 LKI-III-18	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S762	2443873.50	1979	R-31	-	-	3M17 LKI-III-19	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S174	2444085.50	1979 Aug	R-31	-	-	3M17 LKI-III-20	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1979-S755	2444116.50	1979 Sep?	R-31	-	-	3M17 UBP	MGCh	-	K-140	KARA	-	-	-	1000?	-	Kura
1979-S756	2444116.50	1979 Sep?	R-31	-	-	3M17 UBP	MGCh	-	K-140	KARA	-	-	-	1000?	-	Kura
1990-S205	2448151.50	1990 Sep 17	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S206	2448152.50	1990 Sep 18	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S207	2448163.50	1990 Sep 29	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S208	2448164.50	1990 Sep 30	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S209	2448164.50	1990 Sep 30	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-A16	2448165.50	1990 Oct 1	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	0	-	-
1990-S199	2448175.50	1990 Oct 11	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S200	2448175.50	1990 Oct 11	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S201	2448175.50	1990 Oct 11	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S202	2448175.50	1990 Oct 11	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S203	2448225.50	1990 Nov 30	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-
1990-S204	2448225.50	1990 Nov 30	R-31	-	-	3M17 Util	MGCh	-	K-140	UNKPL	-	-	-	1000?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A155	2441430.08	1972 Apr 22 1355	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A156	2441437.50	1972 May?	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A157	2441437.50	1972 May?	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A158	2441437.50	1972 May?	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A147	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A148	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A149	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A150	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A151	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A152	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-A153	2441621.50	1972 Nov	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-A82	2442047.50	1974	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-A83	2442047.50	1974	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-A84	2442047.50	1974	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-A85	2442047.50	1974	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-A86	2442047.50	1974	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S398	2442405.50	1974 Dec 24	R-31	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1975-S16	2442412.50	1975	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S446	2442412.50	1975	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S447	2442412.50	1975	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S492	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S493	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S494	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S495	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S496	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S497	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S498	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S499	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S500	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S501	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S502	2442777.50	1976	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-A133	2443051.50	1976 Oct	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S352	2443134.69	1976 Dec 22 0430	R-31	-	821	0.000	RVSN	MS	-	-	Test	NevskiyBastion9901	TekhVor9711	-
1977-S21	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	NevskiyBastion9901	-	-
1977-S477	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S478	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S479	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S480	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S481	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S482	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S483	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S484	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S485	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S486	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S487	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S488	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S489	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S490	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S491	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S492	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S493	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S494	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S495	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S496	2443143.50	1977	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S14	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	NevskiyBastion9901	-	-
1978-S361	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S374	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S364	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S365	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S366	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S367	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S368	2443508.50	1978	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S758	2443873.50	1979	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S759	2443873.50	1979	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S760	2443873.50	1979	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S761	2443873.50	1979	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S762	2443873.50	1979	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S174	2444085.50	1979 Aug	R-31	-	-	0.000	RVSN	MS	-	-	Test	NevskiyBastion9901	-	-
1979-S755	2444116.50	1979 Sep?	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S756	2444116.50	1979 Sep?	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S205	2448151.50	1990 Sep 17	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S206	2448152.50	1990 Sep 18	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S207	2448163.50	1990 Sep 29	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S208	2448164.50	1990 Sep 30	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S209	2448164.50	1990 Sep 30	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-A16	2448165.50	1990 Oct 1	R-31	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1990-S199	2448175.50	1990 Oct 11	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S200	2448175.50	1990 Oct 11	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S201	2448175.50	1990 Oct 11	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S202	2448175.50	1990 Oct 11	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S203	2448225.50	1990 Nov 30	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S204	2448225.50	1990 Nov 30	R-31	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A128	2438300.75	1963 Sep 28 0600	R-36 8K67	-	G 22500-02L	8K67 LKI-0	GCh 8F674 No. 2L	-	-	NIIP-5	LC67/21	-	-	0	-	(Kura)
1963-S583	2438366.83	1963 Dec 3 0800:29	R-36 8K67	-	G 22500-04L	8K67 LKI-1	-	-	-	NIIP-5	LC67/21	-	-	903	-	Kura
1963-A185	2438376.62	1963 Dec 13 0300	R-36 8K67	-	G 22500-03L	8K67 LKI	-	-	-	NIIP-5	LC67/21	-	-	0	-	(Kura)
1964-S36	2438410.69	1964 Jan 16 0428:58	R-36 8K67	-	G 22500-05L	8K67 LKI-2	-	-	-	NIIP-5	LC67/21	-	-	908	6300	Kura
1964-A12	2438420.22	1964 Jan 25 1715	R-36 8K67	-	G 22500-06L	8K67 LKI-3	-	-	-	NIIP-5	LC67/21	-	-	0?	-	(Kura)
1964-S105	2438445.14	1964 Feb 19 1515:07	R-36 8K67	-	G 22500-07L	8K67 LKI-4	-	-	-	NIIP-5	LC67/21	-	-	906	-	Kura
1964-A30	2438452.60	1964 Feb 27 0230:28	R-36 8K67	-	G 22500-08L	8K67 LKI-5	-	-	-	NIIP-5	LC67/21	-	-	10?	25	(Kura)
1964-A60	2438511.78	1964 Apr 26 0650	R-36 8K67	-	G 22500-11L	8K67 LKI-6	-	-	-	NIIP-5	LC67/22	-	-	0?	-	(Kura)
1964-S261	2438538.71	1964 May 23 0459:50	R-36 8K67	-	G 22500-09L	8K67 LKI-7	-	-	-	NIIP-5	LC67/21	-	-	870	-	Kura
1964-S271	2438545.60	1964 May 30 0230:30	R-36 8K67	-	G 22500-10L	8K67 LKI-8	-	-	-	NIIP-5	LC67/22	-	-	864	-	Kura
1964-S309	2438570.70	1964 Jun 24 0442:27	R-36 8K67	-	G 22500-12L	8K67 LKI-9	-	-	-	NIIP-5	LC67/22	-	-	874	-	Kura
1964-S318	2438577.56	1964 Jul 1 0130	R-36 8K67	-	G 22500-13L	8K67 LKI-10	-	-	-	NIIP-5	LC67/22	-	-	872	-	Kura
1964-S402	2438612.58	1964 Aug 5 0200:29	R-36 8K67	-	G 22500-14L	8K67 LKI-11	-	-	-	NIIP-5	LC67/22	-	-	1493	-	Pacific
1964-A119	2438618.58	1964 Aug 11 0200:05	R-36 8K67	-	G 22500-15L	8K67 LKI-12	-	-	-	NIIP-5	LC67/22	-	-	0?	-	(Pacific?)
1964-S461	2438647.59	1964 Sep 9 0213:03	R-36 8K67	-	G 22500-16L	8K67 LKI-13	-	-	-	NIIP-5	LC67/22	-	-	1495	-	Pacific
1964-S485	2438663.75	1964 Sep 25 0600	R-36 8K67	-	G 22500-17L	8K67 LKI-14	Kedr	-	-	NIIP-5	LC67/22	-	-	1000?	-	Pacific
1964-S514	2438678.67	1964 Oct 10 0400	R-36 8K67	-	G 22500-19L	8K67 LKI-15	-	-	-	NIIP-5	LC67/22	-	-	865	-	Kura
1964-S549	2438697.58	1964 Oct 29 0159	R-36 8K67	-	G 22500-18L	8K67 LKI-16	-	-	-	NIIP-5	LC67/22	-	-	868	-	Kura
1964-S681	2438744.50	1964 Dec 15 0000?	R-36 8K67	-	G 22500-21L	8K67 LKI-17	-	-	-	NIIP-5	LC67/22	-	-	870?	-	Kura
1965-A08	2438773.71	1965 Jan 13 0502	R-36 8K67	-	R 22500-20L	8K67 LKI-18	Silo test	-	-	NIIP-5	LC80/17	-	-	0?	-	(Kura)
1965-S59	2438790.84	1965 Jan 30 0811	R-36 8K67	-	R 22500-22L	8K67 LKI-19	-	-	-	NIIP-5	LC67/22	-	-	1493	-	Pacific
1965-S255	2438877.71	1965 Apr 27 0500	R-36 8K67	-	R 22500-28L	8K67 LKI-20	-	-	-	NIIP-5	LC80/18	-	-	870?	-	Kura
1965-S296	2438898.71	1965 May 18 0500	R-36 8K67	-	R 22500-29L	8K67 LKI-21	-	-	-	NIIP-5	LC80/18	-	-	870?	-	Kura
1965-S422	2438950.50	1965 Jul 9	R-36 8K67	-	R 22500-27L	8K67 LKI-22	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-A117	2438975.68	1965 Aug 3 0415	R-36 8K67	-	U 22500-31L	8K67 LKI-23	-	-	-	NIIP-5	LC102/32	-	-	0?	-	(Kura)
1965-S467	2438985.91	1965 Aug 13 0945	R-36 8K67	-	R 22500-26L	8K67 LKI-24	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-A123	2438993.63	1965 Aug 21 0310	R-36 8K67	-	R 22500-25L	8K67 LKI-25	-	-	-	NIIP-5	LC102/32	-	-	0?	-	(Kura)
1965-S533	2439034.69	1965 Oct 1 0440	R-36 8K67	-	R 22500-24L	8K67 LKI-26	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1965-S547	2439042.71	1965 Oct 9 0505	R-36 8K67	-	U 22500-32L	8K67 LKI-27	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-S555	2439048.67	1965 Oct 15 0405	R-36 8K67	-	R 22500-23L	8K67 LKI-28	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1965-S583	2439062.63	1965 Oct 29 0312	R-36 8K67	-	U 22500-35L	8K67 LKI-29	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-S590	2439066.68	1965 Nov 2 0418	R-36 8K67	-	U 22500-37L	8K67 LKI-30	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1965-S616	2439078.62	1965 Nov 14 0300	R-36 8K67	-	U 22500-36L	8K67 LKI-31	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1965-S652	2439091.50	1965 Nov 27	R-36 8K67	-	U 22500-33L	8K67 LKI-32	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-S665	2439101.67	1965 Dec 7 0405	R-36 8K67	-	U 22500-34L	8K67 LKI-33	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1965-U01	2439111.09	1965 Dec 16 1409:22	R-36O 8K69	-	U 22502-01L	OGCh No. 01L	OGCh No. 01L	8K69-O LKI-I-1	-	NIIP-5	LC67/21	-	-	200?	-	Kura
1965-S698	2439119.67	1965 Dec 25 0400	R-36 8K67	-	U 22502-09T	8K67 LKI-34	Salvo	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1965-S699	2439119.67	1965 Dec 25 0401	R-36 8K67	-	U 22503-09T	8K67 LKI-35	Salvo	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1965-S701	2439120.92	1965 Dec 26 1000	R-36 8K67	-	U 22504-09T	8K67 LKI-36	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1966-U01	2439162.01	1966 Feb 5 1219:49	R-36O 8K69	-	U 22502-02L	OGCh No. 02L	OGCh No. 02L	8K69-O LKI-I-2	-	NIIP-5	LC67/21	-	-	200?	-	Kura
1966-E01	2439200.42	1966 Mar 15 2200	R-36O 8K69	-	U 22502-03L	OGCh No. 03L	OGCh No. 03L	8K69-O LKI-I-3a	-	NIIP-5	LC67/21	-	-	0	-	(Kura)
1966-S195	2439214.56	1966 Mar 30 0132	R-36 8K67	-	N 22501-10T	8K67 LKI-37 SLI K	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1966-S206	2439237.68	1966 Apr 22 0418	R-36 8K67	-	N 22502-10T	8K67 LKI-38 SLI K	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1966-S235	2439241.64	1966 Apr 26 0315	R-36 8K67	-	U 22501-09T	8K67 LKI-39	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1966-U02	2439265.31	1966 May 19 1930:00	R-36O 8K69	-	U 22502-04L	OGCh No. 04L	OGCh No. 04L	8K69-O LKI-I-3	-	NIIP-5	LC67/22	-	-	-	-	Kura
1966-S285	2439274.63	1966 May 29 0305	R-36 8K67	-	U 22500-30L	8K67 LKI-40	MGCh 8F675-6000	-	-	NIIP-5	LC141/31	-	-	1000?	-	Pacific
1966-S307	2439286.68	1966 Jun 10 0417	R-36 8K67	-	N 22503-10T	8K67 UBP-1 SLI K	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1966-S355	2439306.64	1966 Jun 30 0325	R-36 8K67	-	N 22500-01T	8K67 UBP-2	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1966-088	2439386.44	1966 Sep 17 2235:00	R-36O 8K69	-	U 22500-05L	OGCh No. 05L	OGCh No. 05L	8K69-O LKI-II-1	-	NIIP-5	LC162/36	-	-	1221	-	(Nov.Kazan)
1966-A110	2439395.61	1966 Sep 27 0232	R-36 8K67	-	N 22504-10T	8K67 UBP-3 K	-	-	-	NIIP-5	LC141/31	-	-	0?	-	(Kura)
1966-S530	2439404.61	1966 Oct 6 0242	R-36 8K67	-	N 22505-10T	8K67 UBP-4	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1966-S548	2439418.77	1966 Oct 20 0635	R-36 8K67	-	N 22500-02T	8K67 UBP-5	Pal'ma-2	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1966-S558	2439421.60	1966 Oct 23 0228	R-36 8K67	-	N 22506-10T	8K67 UBP-6	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1966-101	2439431.53	1966 Nov 2 0045:03	R-36O 8K69	-	N 22500-06L	OGCh	OGCh No. 06L	8K69-O LKI-II-2	-	NIIP-5	LC162/36	-	-	934	-	(Nov.Kazan)
1966-S647	2439450.59	1966 Nov 21 0208	R-36 8K67	-	N 22500-04T	8K67 UBP-7	MGCh 8F674 LKI	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1966-A149	2439469.58	1966 Dec 10 0153	R-36 8K67	-	N 22500-03T	8K67 UBP-8	MGCh 8F674 LKI	-	-	NIIP-5	LC102/32	-	-	0?	-	Kura
1967-005	2439516.08	1967 Jan 25 1355:01	R-36O 8K69	-	N 22500-07L	Kosmos-139	OGCh No. 07L	8K69-O LKI-II-3	-	NIIP-5	LC162/36	-	-	1539	-	Nov.Kazanka
1967-S139	2439553.71	1967 Mar 4 0503	R-36 8K67	-	Ya22501-14T	8K67 UBP-9	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1967-F02	2439572.09	1967 Mar 22 1405:02	R-36O 8K69	-	N 22500-08L	-	OGCh No. 08L	8K69-O LKI-II-4	-	NIIP-5	LC161/35	-	-	140?	-	(Nov Kazan)
1967-S182	2439580.62	1967 Mar 31 0248	R-36 8K67	-	Ya22502-14T	8K67 UBP-10	-	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1967-047	2439628.17	1967 May 17 1605:02	R-36O 8K69	-	Ya22500-09L	Kosmos-160	OGCh No. 09L	8K69-O LKI-II-5	-	NIIP-5	LC161/35	-	-	234	-	Nov.Kazanka
1967-S278	2439641.63	1967 May 31 0312	R-36 8K67	-	N 22500-10T	8K67 UBP-11	MGCh 8F675 LKI	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1967-S292	2439647.61	1967 Jun 6 0245	R-36 8K67	-	N 22507-12T	8K67 UBP-12	MGCh 8F675 LKI	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1967-S302	2439656.62	1967 Jun 15 0255	R-36 8K67	-	N 22500-11T	8K67 UBP-13	MGCh 8F675 LKI	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1967-S323	2439668.61	1967 Jun 27 0235	R-36 8K67	-	Ya22503-14T	8K67 UBP-14	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1967-069	2439689.20	1967 Jul 17 1645:04	R-36O 8K69	-	Ya22500-11L	Kosmos-169	OGCh No. 11L	8K69-O LKI-II-6	-	NIIP-5	LC162/36	-	-	232	-	Nov.Kazanka
1967-S351	2439692.08	1967 Jul 20 1400	R-36 8K67	-	Ya22502-15	8K67 UBP-15	SBP Special Test	-	-	NIIP-5	LC102/32?	-	-	1000?	-	Kura
1967-074	2439703.20	1967 Jul 31 1645:00	R-36O 8K69	-	Ya22500-12L	Kosmos-170	OGCh No. 12L	8K69-O LKI-II-7	-	NIIP-5	LC161/35	-	-	396	-	Nov.Kazanka
1967-077	2439711.17	1967 Aug 8 1605:02	R-36O 8K69	-	Ya22500-10L	Kosmos-171	OGCh No. 10L	8K69-O LKI-II-8	-	NIIP-5	LC162/36	-	-	328	-	Nov.Kazanka
1967-S418	2439737.59	1967 Sep 4 0205	R-36 8K67	-	Ya22504-14T	8K67 UBP-16	-	-	-	NIIP-5	LC141/31?	-	-	1000?	-	Kura
1967-S427	2439741.59	1967 Sep 8 0210	R-36 8K67	-	Ya22502-08T	8K67 UBP-17	-	-	-	NIIP-5	LC102/32?	-	-	1000?	-	Kura
1967-089	2439753.11	1967 Sep 19 1445:03	R-36O 8K69	-	Ya22500-14L	Kosmos-178	OGCh No. 14L	8K69-O LKI-II-9	-	NIIP-5	LC161/35	-	-	311	-	Nov.Kazanka
1967-S445	2439754.81	1967 Sep 21 0720	R-36 8K67	-	Ya22504K	8K67 UBP-18	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1967-091	2439756.09	1967 Sep 22 1405:05	R-36O 8K69	-	Ya22500-15L	Kosmos-179	OGCh No. 15L	8K69-O LKI-II-10	-	NIIP-5	LC162/36	-	-	214	-	Nov.Kazanka
1967-S462	2439764.67	1967 Oct 1 0410	R-36 8K67	-	Ya22505-14T	8K67 UBP-19	MGCh	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1967-099	2439782.06	1967 Oct 18 1330:01	R-36O 8K69	-	Ya22500-16L	Kosmos-183	OGCh No. 16L	8K69-O LKI-II-11	-	NIIP-5	LC161/35	-	-	315	-	Nov.Kazanka
1967-104	2439790.60	1967 Oct 27 0221:19	Tsiklon-2A	-	N 22500-03L	Kosmos-185	I2-BM	-	-	NIIP-5	LC90/19	-	-	909	-	-
1967-106	2439792.05	1967 Oct 28 1315:01	R-36O 8K69	-	Ya22500-13L	Kosmos-187	OGCh No. 13L	8K69-O LKI-II-12	-	NIIP-5	LC162/36	-	-	240	-	Nov.Kazanka
1967-127	2439851.98	1967 Dec 27 1128:51	Tsiklon-2A	-	N 22500-07L	Kosmos-198	US-A reactor	-	-	NIIP-5	LC90/19	-	-	953	-	-
1968-S159	2439915.65	1968 Feb 29 0330	R-36 8K67	-	V 22501-15T	8K67 UBP-20	-	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura
1968-023	2439937.90	1968 Mar 22 0930:34	Tsiklon-2A	-	N 22500-08L	Kosmos-209	US-A reactor	-	-	NIIP-5	LC90/19	-	-	946	-	-
1968-S268	2439964.65	1968 Apr 18 0330	R-36 8K67M	-	Ya22500-03L	8K67M LKI-1	MGCh 8F675-7000	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-036	2439971.17	1968 Apr 24 1600:00	Tsiklon-2A	-	-	Kosmos-217	I2M	-	-	NIIP-5	LC90/20	-	-	262	-	-
1968-037	2439971.53	1968 Apr 25 0045:10	R-36O 8K69	-	Ya22500-17L(5MO)	Kosmos-218	OGCh No. 17LU	8K69-O LKI-II-13	-	NIIP-5	LC162/36	-	-	232	-	Nov.Kazanka
1968-S291	2439974.67	1968 Apr 28 0410	R-36 8K67	-	V 22502-15T	8K67 UBP-21	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-S313	2439988.50	1968 May 12	R-36 8K67M	-	V 22500-04L	8K67M LKI-2	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-U01	2439997.42	1968 May 20 2205:02	R-36O 8K69	-	Ya22500-18L(6MO)	-	OGCh No. 18LU	8K69-O LKI-II-14	-	NIIP-5	LC162/36	-	-	-	-	Pacific
1968-S341	2439999.50	1968 May 23	R-36 8K67M	-	V 22500-05L	8K67M LKI-3	-	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-U02	2440004.47	1968 May 27 2315:01	R-36O 8K69	-	Ya22501-19L(7MO)	-	OGCh No. 19LU	8K69-O LKI-II-15	-	NIIP-5	LC161/35	-	-	-	-	Pacific
1968-S360	2440014.24	1968 Jun 6 1740	R-36 8K67	-	Ya22504-08T	8K67 UBP-22	MGCh 8F674 Special Test	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura 2K
1968-S392	2440040.76	1968 Jul 3 0620	R-36 8K67	-	V 22503-15T	8K67 UBP-23	MGCh 8F675	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura 2K
1968-S397	2440054.36	1968 Jul 16 2036	R-36 8K67M	-	V 22501-07T	8K67M UBP-1	MGCh 8F675	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura 2K
1968-S456	2440082.65	1968 Aug 14 0330	R-36 8K67M	-	U 22505-05	8K67M UBP-2	MGCh 8F675	-	-	NIIP-5	LC141/31	-	-	1000?	-	Kura 2K
1968-S472	2440092.06	1968 Aug 23 1330	R-36 8K67P	-	V 22500-02L	8K67P LKI-1	3 BB 8F673	RGCh OK-6500	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-S493	2440110.97	1968 Sep 11 1115	R-36 8K67P	-	V 22500-01L	8K67P LKI-2	3 BB 8F673	RGCh OK-6500	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-082	2440132.07	1968 Oct 2 1335:01	R-36O 8K69	-	V 22500-10T	Kosmos-244	OGCh No. V22500-10 (20?)	8K69-O LKI-II-16	-	NIIP-5	LC161/35	-	-	193	-	Nov.Kazanka
1968-S521	2440134.02	1968 Oct 4 1230	R-36 8K67P	-	V 22500-03L	8K67P LKI-3	3 BB 8F673	RGCh OK-6500	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1968-090	2440148.68	1968 Oct 19 0420:00	Tsiklon-2A	-	N 22500-06L	Kosmos-248	I2M	-	-	NIIP-5	LC90/19	-	-	570	-	-
1968-091	2440149.67	1968 Oct 20 0402:00	Tsiklon-2A	-	N 22500-05L	Kosmos-249	I2P	-	-	NIIP-5	LC90/20	-	-	2165	-	-
1968-A107	2440157.59	1968 Oct 28 0210	R-36 8K67	-	V 22504-15T	8K67 UBP-24	MGCh 8F675	-	-	NIIP-5	LC142/34	-	-	0?	-	(Kura 2K)
1968-097	2440161.52	1968 Nov 1 0027:15	Tsiklon-2A	-	N 22500-09L	Kosmos-252	I2P	-	-	NIIP-5	LC90/20	-	-	2149	-	-
1968-S620	2440194.65	1968 Dec 4 0330	R-36 8K67M	-	V 22503-14T	8K67M UBP-3	MGCh 8F675U	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1968-S652	2440209.21	1968 Dec 18 1705	R-36 8K67P	-	V 22500-04L	8K67P LKI-4	3 BB 8F673	RGCh OK-6500	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1969-U03	2440246.97	1969 Jan 25 1114:03	Tsiklon-2A	-	N 22500-12L	Kosmos	US-A No. 5? reactor	-	-	NIIP-5	LC90/19	-	-	100	-	-
1969-S233	2440309.64	1969 Mar 29 0320	R-36 8K67	-	Yu22501-14T	8K67 UBP-25	-	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1969-S249	2440313.64	1969 Apr 2 0320	R-36 8K67	-	Yu22500-01T	8K67 UBP-26	-	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1969-S280	2440329.53	1969 Apr 18 0050	R-36 8K67P	-	V 22500-05L	8K67P LKI-5	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1969-S298	2440336.74	1969 Apr 25 0545	R-36 8K67	-	Yu22500-16L	8K67 UBP-27	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Pacific
1969-S336	2440363.54	1969 May 22 0055	R-36 8K67	-	-	8K67 UBP-28	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1969-S383	2440399.75	1969 Jun 27 0605	R-36 8K67	-	Yu22502-14T	8K67 UBP-29	MGCh 8F674	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1969-S403	2440414.21	1969 Jul 11 1700	R-36 8K67M	-	Yu22501-10T	8K67M UBP-4	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1969-S441	2440437.71	1969 Aug 4 0500	R-36 8K67M	-	Yu45023-54T	8K67M UBP-5	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1969-066	2440439.74	1969 Aug 6 0540:03	Tsiklon-2	-	V 22500-02L	Kosmos-291	IS-M GVM	-	-	NIIP-5	LC90/19	-	-	550	-	-
1969-077	2440480.17	1969 Sep 15 1600:00	R-36O 8K69	-	Yu45021-50T	Kosmos-298	OGCh No. 21?	8K69-O UBP	-	NIIP-5	LC191/66	-	-	181	-	Nov.Kazanka
1969-S519	2440489.62	1969 Sep 25 0255	R-36 8K67P	-	-	8K67P UBP-1	-	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1969-S487	2440503.49	1969 Oct 8 2345	R-36 8K67P	-	Yu51024-54T	8K67P UBP-2	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1969-S570	2440518.09	1969 Oct 23 1406	R-36 8K67P	-	Yu22502-03T	8K67P UBP-3	MGCh 8F675 Pal'ma-3	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1969-S573	2440519.01	1969 Oct 24 1210	R-36 8K67P	-	Ya22504-04T	8K67P UBP-4	MGCh 8F675 Pal'ma-3	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1969-S576	2440519.62	1969 Oct 25 0300	R-36 8K67P	-	-	8K67P UBP-5?	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1969-S588	2440526.96	1969 Nov 1 1059:27	Tsiklon-2	-	Yu22500-04L	-	GVM US-A	-	-	NIIP-5	LC90/20	-	-	200?	-	Kura
1969-S608	2440529.64	1969 Nov 4 0328	R-36 8K67P	-	U 22502-02	8K67P UBP-6?	MGCh 8F675/OS-67 No. 1L	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1969-S641	2440557.50	1969 Dec 2 0003	R-36 8K67P	-	-	8K67P UBP-7?	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1969-S665	2440567.56	1969 Dec 12 0124	R-36 8K67	-	Yu22525-54T	8K67 UBP-30	MGCh 8F675	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1969-S687	2440574.56	1969 Dec 19 0130	R-36 8K67P	-	-	8K67P UBP-31?	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1969-108	2440578.89	1969 Dec 23 0925:00	Tsiklon-2	-	V 22500-03L	Kosmos-316	IM IS (I2P?)	-	-	NIIP-5	LC90/20	-	-	1639	-	-
1970-S73	2440603.65	1970 Jan 17 0330	R-36 8K67M	-	N 22500-06T	8K67M UBP-6	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1970-S77	2440607.63	1970 Jan 21 0305	R-36 8K67M	?	-	8K67M/P UBP-7	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-S89	2440616.59	1970 Jan 30 0205	R-36 8K67M	?	-	8K67M/P UBP-8	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-S90	2440616.63	1970 Jan 30 0305	R-36 8K67M	-	N 22500-07T	8K67M UBP-9	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1970-S110	2440626.67	1970 Feb 9 0400	R-36 8K67M	-	N 22500-08T	8K67M UBP-10	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1970-S124	2440635.69	1970 Feb 18 0430	R-36 8K67P	-	N 22500-05T	8K67P UBP-8	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S127	2440636.64	1970 Feb 19 0325	R-36 8K67M	?	Yu22500-11L	8K67M/P UBP-11	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-S130	2440637.69	1970 Feb 20 0430	R-36 8K67	-	Kh22511-64T	8K67 UBP-32	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1970-S233	2440654.65	1970 Mar 9 0334	R-36 8K67P	-	N 22500-09T	8K67P UBP-8	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S272	2440674.44	1970 Mar 28 2230	R-36 8K67P	-	-	8K67P UBP-9	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1970-S273	2440675.56	1970 Mar 30 0130	R-36 8K67P	-	-	8K67P UBP-10	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1970-S294	2440687.67	1970 Apr 11 0405	R-36 8K67P	?	Yu22500-02L	8K67P? UBP-11	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S296	2440689.65	1970 Apr 13 0335	R-36 8K67P	-	-	8K67P UBP-12	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-S300	2440691.65	1970 Apr 15 0335	R-36 8K67P	-	Kh22500-07L	8K67P UBP-13	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1970-S311	2440696.65	1970 Apr 20 0335	R-36 8K67	-	4502742-264T	8K67 UBP-33	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S334	2440703.66	1970 Apr 27 0350	R-36 8K67P	-	Kh22500-08L	8K67P UBP-14	MGCh 8F675	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1970-S412	2440766.68	1970 Jun 29 0413	R-36 8K67	-	5102743-264T	8K67 UBP-34	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S443	2440793.03	1970 Jul 25 1239	R-36 8K67	-	4502742-259T	8K67 UBP-35	MGCh 8F675	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-056	2440796.42	1970 Jul 28 2200:28	R-36O 8K69	-	Yu45021-49T	Kosmos-354	OGCh No. Yu22500-11 (22)	8K69-O UBP	-	NIIP-5	LC191/66	-	-	178	-	Nov.Kazanka
1970-S471	2440805.77	1970 Aug 7 0630	R-36 8K67	-	6702744-264T	8K67 UBP-36	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura 2K
1970-S516	2440841.98	1970 Sep 12 1130	R-36 8K67	-	N 22503-05	8K67 UBP-37	MGCh 8F675	LKI OS-67-1A	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1970-076	2440855.09	1970 Sep 25 1405:00	R-36O 8K69M	-	4502741-260T	Kosmos-365	OGCh-K No. Xh22511-65	8K69M-O UBP K	-	NIIP-5	LC191/66	-	-	174	-	Nov.Kazanka
1970-079	2440862.94	1970 Oct 3 1026:45	Tsiklon-2	-	Yu22500-07L	Kosmos-367	US-A reactor	-	-	NIIP-5	LC90/19	-	-	1030	-	-
1970-S559	2440868.06	1970 Oct 8 1330	R-36 8K67	-	6305761-025	8K67 UBP-38	Pal'ma-4	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-A110	2440872.07	1970 Oct 12 1335	R-36 8K67	-	4925761-026	8K67 UBP-39	Pal'ma-4	-	-	NIIP-5	LC161/35	-	-	1?	-	(Kura)
1970-087	2440879.73	1970 Oct 20 0538:00	Tsiklon-2	-	Yu22500-06L	Kosmos-373	IS-M	-	-	NIIP-5	LC90/19	-	-	936	-	-
1970-089	2440882.70	1970 Oct 23 0442:56	Tsiklon-2	-	Yu22500-05L	Kosmos-374	I2P	-	-	NIIP-5	LC90/20	-	-	2153	-	-
1970-S580	2440882.59	1970 Oct 23 0210	R-36 8K67P	-	-	8K67P UBP-15	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1970-S585	2440889.18	1970 Oct 29 1625	R-36 8K67P	-	-	8K67P UBP	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1970-091	2440889.61	1970 Oct 30 0236:51	Tsiklon-2	-	Yu22500-12L	Kosmos-375	I2P	-	-	NIIP-5	LC90/20	-	-	2103	-	-
1970-S593	2440895.60	1970 Nov 5 0220	R-36 8K67P	-	-	8K67P UBP K	3 BB 8F677	RGCh 8F676	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1970-S639	2440902.25	1970 Nov 11 1753	R-36 8K67	-	4502745-253T	8K67 UBP-42	MGCh 8F675	Glavkom RVSN	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1970-S641	2440932.62	1970 Dec 12 0250	R-36 8K67	-	N 22506-01	8K67 UBP-43	MGCh 8F675	Glavkom RVSN	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1971-A180	2440981.50	1971 Jan 30	R-36M 15A14	-	-	15A14 BI-1 K-1	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A196	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-2	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A197	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-3	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A198	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-4	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A199	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-5	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A200	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-6	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A201	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-7	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A202	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-8	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A203	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-9	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A204	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-10	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A205	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-11	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A206	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-12	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A207	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-13	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A208	2440951.50	1971	R-36M 15A14	-	-	15A14 BI-1 K-14	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S124	2440999.78	1971 Feb 17 0647	R-36 8K67	-	4501421-180T	8K67 UBP-44	MGCh 8F675	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura 2K
1971-015	2441007.97	1971 Feb 25 1111:10	Tsiklon-2	-	Yu22500-13L	Kosmos-397	I2P	-	-	NIIP-5	LC90/20	-	-	2211	-	-
1971-025	2441042.98	1971 Apr 1 1129:59	Tsiklon-2	-	Yu22500-08L	Kosmos-402	US-A reactor	-	-	NIIP-5	LC90/19	-	-	1035	-	-
1971-027	2441046.10	1971 Apr 4 1427:43	Tsiklon-2	-	Yu22500-14L	Kosmos-404	I2P	-	-	NIIP-5	LC90/20	-	-	1009	-	-
1971-A209	2441071.50	1971 May?	R-36M 15A14	-	-	15A14 BI-1 D-1	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-A181	2441072.54	1971 May 1 0100	R-36M 15A14	-	-	15A14 BI-1 D-2	Silo ejection test	-	-	PAVL	-	-	-	0	-	-
1971-A210	2441102.50	1971 Jun?	R-36M 15A14	-	-	15A14 BI-1 D-3	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-S345	2441129.35	1971 Jun 26 2030	R-36 8K67M	-	-	8K67M UBP-12	-	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1971-A211	2441132.50	1971 Jul?	R-36M 15A14	-	-	15A14 BI-1 D-4	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-068	2441172.49	1971 Aug 8 2345:00	R-36O 8K69M	-	V 22501-07	Kosmos-433	OGCh-K No. 51027-40-251	8K69M-O UBP K	-	NIIP-5	LC191/66	-	-	300	-	Nov.Kazanka
1971-A182	2441191.50	1971 Aug 28	R-36M 15A14	-	-	15A14 BI-1 D-5	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-S437	2441203.60	1971 Sep 9 0230	R-36 8K67M	-	Yu45023-41	8K67M UBP-13	MGCh 8F675	-	-	NIIP-5	LC142/34	-	-	1000?	-	L.Karakoyn
1971-A183	2441205.50	1971 Sep 11	R-36M 15A14	-	-	15A14 BI-1 K-15	Silo ejection test	-	-	PAVL	-	-	-	1?	-	-
1971-S677	2441214.50	1971 Sep 20	R-36 8K67	-	-	8K67 62 RD UBP-1	-	-	-	UZHUR	LC379/1/1	-	-	1000?	-	Kura
1971-S489	2441226.63	1971 Oct 2 0310	R-36 8K67M	-	-	8K67M UBP-14	-	-	-	NIIP-5	LC142-1B/35	-	-	1000?	-	Kura
1971-A89	2441246.77	1971 Oct 22 0625	R-36M 15A14	-	45014-01	15A14 BI-2-1	Silo ejection series II	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1971-A93	2441258.69	1971 Nov 3 0430	R-36M 15A14	-	51014-02	15A14 BI-2-2	-	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1971-S579	2441287.55	1971 Dec 2 0115	R-36 8K67M	-	U 22505-07T	8K67M UBP-15	MGCh 8F675 LKI OS-67-1A	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura 2K
1971-A106	2441288.79	1971 Dec 3 0700	R-36M 15A14	-	67014-03	15A14 BI-2-3	-	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1971-106	2441289.06	1971 Dec 3 1319:22	Tsiklon-2	-	Yu22500-09L	Kosmos-462	I2P	-	-	NIIP-5	LC90/20	-	-	1800	-	-
1971-117	2441310.98	1971 Dec 25 1129:58	Tsiklon-2	-	Yu22500-18L	Kosmos-469	US-A reactor	-	-	NIIP-5	LC90/19	-	-	1031	-	-
1971-A112	2441314.81	1971 Dec 29 0720	R-36M 15A14	-	45014-01	15A14 BI-3-1	Dummy GCh	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-A21	2441382.72	1972 Mar 6 0515	R-36M 15A14	-	51014-02	15A14 BI-3-2	Dummy GCh	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-S156	2441420.23	1972 Apr 12 1725	R-36 8K67MA	-	45014-04L	8K67MA LKI-1	1 BB 15F141-500	-	-	NIIP-5	LC142-1B/35	-	-	1000?	-	Kura
1972-A40	2441436.80	1972 Apr 29 0710	R-36M 15A14	-	67014-03	15A14 BI-3-3	Dummy GCh	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-S210	2441463.68	1972 May 26 0420	R-36 8K67MA	-	-	8K67MA LKI-2	1 BB 15F141	-	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1972-A63	2441477.10	1972 Jun 8 1430	R-36M 15A14	-	45023-304	15A14 BI-3-4	Dummy GCh	-	-	NIIP-5	LC67/21	-	-	10?	-	NIIP-5
1972-S268	2441512.63	1972 Jul 14 0305	R-36 8K67MA	-	-	8K67MA LKI-3	1 BB 15F141	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1972-A90	2441547.50	1972 Aug 18	R-36M 15A14	-	67023-305	15A14 BI-3-5	Dummy GCh	-	-	NIIP-5	LC67/21	-	-	1?	-	NIIP-5
1972-066	2441550.94	1972 Aug 21 1036:20	Tsiklon-2	-	45014-19L	Kosmos-516	US-A reactor	-	-	NIIP-5	LC90/19	-	-	1041	-	-
1972-S294	2441553.68	1972 Aug 24 0415	R-36 8K67MA	-	-	8K67MA LKI-4	1 BB 15F141	MGCh 15B85?	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1972-S306	2441575.63	1972 Sep 15 0310	R-36 8K67MA	-	-	8K67MA LKI-5	1 BB 15F141	MGCh 15B85?	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1972-A108	2441609.65	1972 Oct 19 0337	R-36M 15A14	-	45023-301	15A14 BI-4-1	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC104/92	-	-	10?	-	(Kura)
1972-A123	2441680.81	1972 Dec 29 0730	R-36M 15A14	-	67023-302	15A14 BI-4-2	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC104/92	-	-	100?	-	(Kura)
1973-S29	2441706.63	1973 Jan 24 0310	R-36 8K67MA	-	-	8K67MA LKI-6	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1973-S74	2441734.75	1973 Feb 21 0600	R-36M 15A14	-	45023-30-1L	15A14 LKI-1	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1973-S101	2441750.67	1973 Mar 9 0402	R-36 8K67MA	-	Kh22500-21L	8K67MA LKI-7	1 BB 15F143	RGCh 8F676	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1973-S144	2441778.83	1973 Apr 6 0800	R-36M 15A14	-	67023-30-2L	15A14 LKI-2	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1973-A19	2441780.50	1973 Apr 8	R-36 8K67PM	-	-	8K68PM LKI-1	3 BB	RGCh 8F676M	-	NIIP-5	LC162/36	-	-	0?	-	(Kura)
1973-U01	2441797.88	1973 Apr 25 0910:00	Tsiklon-2	-	Yu22500-17L	-	US-A	-	-	NIIP-5	LC90	-	-	250?	-	-
1973-S161	2441801.97	1973 Apr 29 1113	R-36M 15A14	-	51023-30-3L	15A14 LKI-3	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1973-S172	2441826.21	1973 May 23 1705	R-36 8K67MA	?	-	8K67PM LKI-2	3 BB	RGCh 8F676M	-	NIIP-5	LC161/35	-	-	1000?	-	Kura
1973-A22	2441827.09	1973 May 24 1415	R-36M 15A14	-	45023-30-4L	15A14 LKI-4	1 BB 15F142.500	MGCh 15B86	-	NIIP-5	LC101/93	-	-	10?	-	(Kura)
1973-S202	2441849.50	1973 Jun 16	R-36M 15A14	-	5L	15A14 LKI-5	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1973-S227	2441867.50	1973 Jul 4	R-36M 15A14	-	6L	15A14 LKI-6	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC140/18	-	-	1000?	-	Kura
1973-A35	2441884.69	1973 Jul 21 0440	R-36 8K67PM	-	-	8K67PM LKI-3	3 BB	RGCh 8F676M	-	NIIP-5	LC161/35	-	-	1?	2	(Kura)
1973-S251	2441893.50	1973 Jul 30	R-36M 15A14	-	8L	15A14 LKI-7	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1973-S277	2441909.50	1973 Aug 15	R-36M 15A14	-	7L	15A14 LKI-8	8 BB 15F143U1	MGCh 15B87	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1973-S279	2441911.50	1973 Aug 17	R-36 8K67PM	-	-	8K67PM LKI-4	3 BB	RGCh 8F676M	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1973-S292	2441928.50	1973 Sep 3	R-36M 15A14	-	9L	15A14 LKI-9	8 BB 15F143U1	MGCh 15B87	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1973-A47	2441937.50	1973 Sep 12	R-36M 15A14	-	10L	15A14 LKI-10	8 BB 15F143U1	MGCh 15B87	-	NIIP-5	LC140/18	-	-	50?	-	(Kura)
1973-A60	2441963.67	1973 Oct 8 0410	R-36 8K67PM	-	-	8K67PM LKI-5	3 BB	RGCh 8F676M	-	NIIP-5	LC161/35	-	-	0?	-	Kura
1973-A61	2441967.50	1973 Oct 12	R-36M 15A14	-	11L	15A14 LKI-11	8 BB 15F143U1	MGCh 15B87	-	NIIP-5	LC101/93	-	-	500?	-	(Kura)
1973-S382	2441991.50	1973 Nov 5	R-36M 15A14	-	12L	15A14 LKI-12	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1973-S398	2442006.50	1973 Nov 20	R-36M 15A14	-	13L	15A14 LKI-13	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1973-S442	2442033.50	1973 Dec 17	R-36M 15A14	-	15L	15A14 LKI-14	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC140/18	-	-	1000?	-	Kura
1973-S445	2442038.01	1973 Dec 21 1220	R-36 8K67PM	-	-	8K67PM LKI-6	3 BB	RGCh 8F676M	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1973-S448	2442042.50	1973 Dec 26	R-36M 15A14	-	14L	15A14 LKI-15	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1973-108	2442044.35	1973 Dec 27 2019:58	Tsiklon-2	-	45023-413-01	Kosmos-626	US-A reactor	-	-	NIIP-5	LC90/19	-	-	997	-	-
1974-S55	2442059.42	1974 Jan 11 2200	R-36 8K67	-	N22506-03	8K67 UBP-45	3 BB 8F677	RGCh 8F676 OS-67-1A	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1974-S67	2442067.50	1974 Jan 20	R-36M 15A14	-	18L	15A14 LKI-16	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC103/94	-	-	1000?	-	Pacific
1974-A07	2442091.50	1974 Feb 13	R-36M 15A14	-	16L	15A14 LKI-17	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC140/18	-	-	50?	-	Pacific
1974-S111	2442099.50	1974 Feb 21	R-36M 15A14	-	20L	15A14 LKI-18	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC104/92	-	-	1000?	-	Pacific
1974-S116	2442102.50	1974 Feb 24	R-36M 15A14	-	17L	15A14 LKI-19	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC101/93	-	-	1000?	-	Pacific
1974-S174	2442154.18	1974 Apr 16 1625	R-36 8K67	-	U22504-08	8K67 UBP-46	MGCh 8F675	OS-67-1A	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1974-A18	2442164.50	1974 Apr 27	R-36M 15A14	-	22L	15A14 LKI-20	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC105	-	-	1?	-	(Kura)
1974-029	2442182.81	1974 May 15 0730:00	Tsiklon-2	-	51049-157	Kosmos-651	US-A reactor	-	-	NIIP-5	LC90/19	-	-	963	-	-
1974-032	2442184.79	1974 May 17 0653:15	Tsiklon-2	-	67049-155	Kosmos-654	US-A reactor	-	-	NIIP-5	LC90/19	-	-	1027	-	-
1974-S465	2442193.50	1974 May 26	R-36 8K67	-	-	8K67 62 RD UBP-2	-	-	-	UZHUR	LC379/1/2	-	-	1000?	-	Kura
1974-S466	2442193.50	1974 May 26	R-36 8K67	-	-	8K67 62 RD UBP-3	-	-	-	UZHUR	LC379/1/3	-	-	1000?	-	Kura
1974-S467	2442194.50	1974 May 27	R-36 8K67	-	-	8K67 62 RD UBP-4	-	-	-	UZHUR	LC379/1/1	-	-	1000?	-	Kura
1974-S468	2442194.50	1974 May 27	R-36 8K67	-	-	8K67 62 RD UBP-5	-	-	-	UZHUR	LC379/1/4	-	-	1000?	-	Kura
1974-S469	2442194.50	1974 May 27	R-36 8K67	-	-	8K67 62 RD UBP-6	-	-	-	UZHUR	LC379/1/5	-	-	1000?	-	Kura
1974-S470	2442194.50	1974 May 27	R-36 8K67	-	-	8K67 62 RD UBP-7	-	-	-	UZHUR	LC379/1/6	-	-	1000?	-	Kura
1974-S233	2442222.50	1974 Jun 24	R-36M 15A14	-	25L	15A14 LKI-21	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC106	-	-	1000?	-	Kura
1974-S263	2442232.50	1974 Jul 4	R-36M 15A14	-	26L	15A14 LKI-22	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC109	-	-	1000?	-	Kura
1974-S275	2442254.50	1974 Jul 26	R-36M 15A14	-	19L	15A14 LKI-23	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC140/18	-	-	1000?	-	Kura
1974-S283	2442278.50	1974 Aug 19	R-36M 15A14	-	27L	15A14 LKI-24	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC105	-	-	1000?	-	Kura
1974-S287	2442289.50	1974 Aug 30	R-36M 15A14	-	112T	15A14 K-1 ZP	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC109	-	-	1000?	-	Kura
1974-A42	2442294.32	1974 Sep 3 1940	R-36 8K67	-	N22502-07	8K67 UBP-47 OS-67-1A	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	100?	-	(Kura)
1974-S296	2442306.50	1974 Sep 16	R-36M 15A14	-	23L	15A14 LKI-25	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC106	-	-	1000?	-	Kura
1974-S340	2442327.50	1974 Oct 7	R-36M 15A14	-	24L	15A14 LKI-26	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC104	-	-	1000?	-	Kura
1974-S356	2442337.48	1974 Oct 16 2324	R-36 8K67	-	N22502-08	8K67 UBP-48 Yantar'	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1974-S366	2442343.50	1974 Oct 23	R-36M 15A14	-	31L	15A14 LKI-27	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109	-	-	1000?	-	Kura
1974-A53	2442363.50	1974 Nov 12	R-36M 15A14	-	28L	15A14 LKI-28	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC103/94	-	-	10?	-	(Kura)
1974-S408	2442392.50	1974 Dec 11	R-36M 15A14	-	160T	15A14 K-2	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC105	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S417	2442398.50	1974 Dec 17	R-36M 15A14	-	29L	15A14 LKI-29	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC106	-	-	1000?	-	Kura
1974-S425	2442404.50	1974 Dec 23	R-36M 15A14	-	159T	15A14 K-3	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC104	-	-	1000?	-	Kura
1974-103	2442405.96	1974 Dec 24 1100:00	Tsiklon-2	-	67014-21L	Kosmos-699	US-P	-	-	NIIP-5	LC90/20	-	-	444	-	-
1974-S427	2442406.50	1974 Dec 25	R-36M 15A14	-	30L	15A14 LKI-30	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109	-	-	1000?	-	Kura
1974-A59	2442410.50	1974 Dec 29	R-36M 15A14	-	32L	15A14 LKI-31	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC103	-	-	10?	-	(Kura)
1975-S43	2442432.27	1975 Jan 19 1836	R-36 8K67	-	N22501-02	8K67 UBP-49 Svinets-5	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1975-A04	2442434.20	1975 Jan 21 1646	R-36 8K67	-	N22502-03	8K67 UBP-50 Svinets-5	MGCh 8F674	-	-	NIIP-5	LC162/36	-	-	1000?	-	Kura
1975-S49	2442440.34	1975 Jan 27 2005	R-36 8K67	-	N22506-04	8K67 UBP-51 Svinets-5	MGCh 8F675	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1975-S58	2442447.50	1975 Feb 4	R-36M 15A14	-	21L	15A14 LKI-32	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC140/18	-	-	1000?	-	Kura
1975-S81	2442469.50	1975 Feb 26	R-36M 15A14	-	517T	15A14 K-4 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1975-S83	2442470.45	1975 Feb 26 2245	R-36 8K67MA	-	-	8K67MA LKI-8	1 BB 15F142	-	-	NIIP-5	LC140/33	-	-	1000?	-	Kura
1975-S85	2442471.63	1975 Feb 28 0310	R-36 8K67MA	-	-	8K67MA LKI-9	1 BB 15F142	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1975-S108	2442489.50	1975 Mar 18	R-36M 15A14	-	35L	15A14 LKI-33	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC103/94	-	-	1000?	-	Pacific
1975-S113	2442491.50	1975 Mar 20	R-36M 15A14	-	33L	15A14 LKI-34	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC105/99	-	-	1000?	-	Pacific
1975-024	2442504.96	1975 Apr 2 1100:00	Tsiklon-2	-	67049-158	Kosmos-723	US-A reactor	-	-	NIIP-5	LC90/20	-	-	1046	-	-
1975-025	2442509.96	1975 Apr 7 1100:00	Tsiklon-2	-	45023-413-02	Kosmos-724	US-A reactor	-	-	NIIP-5	LC90/20	-	-	953	-	-
1975-S135	2442526.50	1975 Apr 24	R-36M 15A14	-	37L	15A14 LKI-35	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1975-S165	2442560.50	1975 May 28	R-36M 15A14	-	38L	15A14 LKI-36	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1975-S191	2442567.50	1975 Jun 4	R-36M 15A14	-	34L	15A14 LKI-37	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC101/93	-	-	1000?	-	Pacific
1975-S192	2442570.50	1975 Jun 7	R-36M 15A14	-	36L	15A14 LKI-38	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Pacific
1975-S215	2442588.62	1975 Jun 25 0250	R-36 8K67	-	N22501-01	8K67 UBP-52 OS-67-1A	GCh 8F674	-	-	NIIP-5	LC142/34	-	-	1000?	-	Kura
1975-S219	2442593.50	1975 Jun 30	R-36M 15A14	-	39L	15A14 LKI-39	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1975-S245	2442640.50	1975 Aug 16	R-36M 15A14	-	40L	15A14 LKI-40	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC106	-	-	1000?	-	Kura
1975-S254	2442650.50	1975 Aug 26	R-36M 15A14	-	518T	15A14 K-5 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109	-	-	1000?	-	Kura
1975-S258	2442651.50	1975 Aug 27	R-36M 15A14	-	41L	15A14 LKI-41	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC105	-	-	1000?	-	Kura
1975-S285	2442684.50	1975 Sep 29	R-36M 15A14	-	42L	15A14 LKI-42	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC103	-	-	1000?	-	Kura
1975-S291	2442686.50	1975 Oct 1	R-36M 15A14	-	43L	15A14 LKI-43	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC101	-	-	1000?	-	Kura
1975-S307	2442710.50	1975 Oct 25	R-36 8K67	-	-	-	-	-	-	NIIP-5	-	-	-	1000?	-	Kura?
1975-102	2442714.96	1975 Oct 29 1100:00	Tsiklon-2	-	51014-420L	Kosmos-777	US-P	-	-	NIIP-5	LC90	-	-	547	-	-
1975-116	2442759.03	1975 Dec 12 1245:00	Tsiklon-2	-	51011-110	Kosmos-785	US-A reactor	-	-	NIIP-5	LC90	-	-	1029	-	-
1976-S84	2442807.50	1976 Jan 30	R-36M 15A14	-	118T	15A14 UBP-1	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1976-S99	2442820.50	1976 Feb 12	R-36M 15A14	-	2T	15A14 UBP-2 SLI	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1976-015	2442824.85	1976 Feb 16 0829:00	Tsiklon-2	-	45049-156	Kosmos-804	IS	-	-	NIIP-5	LC90	-	-	928	-	-
1976-S102	2442826.50	1976 Feb 18	R-36M 15A14	-	1T	15A14 UBP-3 SLI	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1976-034	2442882.22	1976 Apr 13 1715:37	Tsiklon-2	-	51019-154	Kosmos-814	IS	-	-	NIIP-5	LC90	-	-	621	-	-
1976-S183	2442915.50	1976 May 17	R-36M 15A14	-	4T	15A14 UBP-4 SLI	1 BB 15F142	MGCh 15B86	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1976-S199	2442938.50	1976 Jun 9	R-36M 15A14	-	3T	15A14 UBP-5 SLI	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1976-S217	2442958.50	1976 Jun 29	R-36M 15A14	-	45012-12-118T	15A14 UBP-6 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1976-063	2442961.94	1976 Jul 2 1030:00	Tsiklon-2	-	67012-101T	Kosmos-838	US-P	-	-	NIIP-5	LC90	-	-	448	-	-
1976-071	2442981.13	1976 Jul 21 1514	Tsiklon-2	-	45012-102T	Kosmos-843	IS	-	-	NIIP-5	LC90	-	-	2097	-	-
1976-S287	2443024.50	1976 Sep 3	R-36M 15A14	-	51026-32-517T	15A14 UBP-7 ZP	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1976-103	2443069.25	1976 Oct 17 1806:43	Tsiklon-2	-	45051-109	Kosmos-860	US-A reactor	-	-	NIIP-5	LC90	-	-	1022	-	-
1976-104	2443073.20	1976 Oct 21 1653	Tsiklon-2	-	67011-111	Kosmos-861	US-A reactor	-	-	NIIP-5	LC90	-	-	1010	-	-
1976-113	2443109.10	1976 Nov 26 1430	Tsiklon-2	-	45012-102	Kosmos-868	US-P	-	-	NIIP-5	LC90	-	-	447	-	-
1976-S353	2443134.50	1976 Dec 22	R-36M 15A14	-	51052-13-114T	15A14 UBP-8 DP	8 BB 15F143U3	RGCh 15B87	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1976-126	2443140.00	1976 Dec 27 1205	Tsiklon-2	-	45023-301T	Kosmos-886	IS	-	-	NIIP-5	LC90	-	-	2321	-	-
1977-S57	2443177.50	1977 Feb 3	R-36M 15A14	-	21T	15A14 UBP-9 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1977-S115	2443219.50	1977 Mar 17	R-36M 15A14	-	5T	15A14 UBP-10 SLI	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC105	-	-	1000?	-	Kura
1977-S165	2443280.50	1977 May 17	R-36M 15A14	-	6T	15A14 UBP-11 SLI	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1977-037	2443287.01	1977 May 23 1214:51	Tsiklon-2	-	51026-502	Kosmos-910	IS	-	-	NIIP-5	LC90	-	-	2104	-	-
1977-S174	2443291.50	1977 May 28	R-36M 15A14	-	27T	15A14 UBP-12 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1977-050	2443311.81	1977 Jun 17 0723:10	Tsiklon-2	-	45046-501	Kosmos-918	IS	-	-	NIIP-5	LC90	-	-	2106	-	-
1977-055	2443318.94	1977 Jun 24 1030	Tsiklon-3	-	45052-102-2L	Kosmos-921	EPN No. 03.0380	Okean GVM	-	NIIP-53	LC32/2	-	-	699	-	-
1977-077	2443379.80	1977 Aug 24 0707	Tsiklon-2	-	51052-103T	Kosmos-937	US-P	-	-	NIIP-5	LC90	-	-	599	-	-
1977-088	2443403.10	1977 Sep 16 1425:00	Tsiklon-2	-	51026-505	Kosmos-952	US-A reactor	-	-	NIIP-5	LC90	-	-	1002	-	-
1977-090	2443405.08	1977 Sep 18 1348:00	Tsiklon-2	-	67012-101	Kosmos-954	US-A	-	-	NIIP-5	LC90	-	-	264	-	-
1977-095	2443410.93	1977 Sep 24 1015	Tsiklon-3	-	45028-201	Kosmos-956	EPN No. 03.0380	Okean GVM	-	NIIP-53	LC32/2	-	-	862	-	-
1977-104	2443442.72	1977 Oct 26 0514:00	Tsiklon-2	-	67026-503	Kosmos-961	IS	-	-	NIIP-5	LC90	-	-	1422	-	-
1977-S275	2443447.64	1977 Oct 31 0320	R-36MU 15A18	-	45028-201(1L)	15A18-01 LKI-1	10 BB 15F162/AA79	RGCh 15F183-1	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1977-S287	2443476.50	1977 Nov 29	R-36M 15A14	-	217T	15A14 UBP-13 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1977-121	2443498.94	1977 Dec 21 1035:00	Tsiklon-2	-	67023-302T	Kosmos-970	IS	-	-	NIIP-5	LC90	-	-	1401	-	-
1977-S306	2443504.50	1977 Dec 27	R-36M 15A14	-	107T	15A14 UBP-14 SLI	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1977-123	2443504.83	1977 Dec 27 0800	Tsiklon-3	-	51028-202	Kosmos-972	EPN No. 03.0380	Okean GVM	-	NIIP-53	LC32/2	-	-	1170	-	-
1977-S308	2443507.50	1977 Dec 30	R-36M 15A14	-	117T	15A14 UBP-15 ZP	8 BB 15F143U2	RGCh 15B97	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1978-S358	2443508.50	1978?	R-36 8K67	-	-	-	-	-	-	NIIP-5?	-	-	-	1000?	-	Kura
1978-S67	2443550.50	1978 Feb 11	R-36M 15A14	-	51035-415-20T	15A14 UBP-16 ZP	1 BB 15F141	MGCh 15B85	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1978-S72	2443554.50	1978 Feb 15	R-36M 15A14	-	16T	15A14 UBP-17 ZP	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1978-S15	2443568.58	1978 Mar 1 0200	R-36MU 15A18	-	51048-202(2L)	15A18-01 LKI-2	10 BB 15F162/AA79	RGCh 15F183-1	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1978-S16	2443640.68	1978 May 12 0420	R-36MU 15A18	-	51035-501(5L)	15A18 LKI-3	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1978-050	2443647.51	1978 May 19 0021	Tsiklon-2	-	51053-303T	Kosmos-1009	IS	-	-	NIIP-5	LC90	-	-	1383	-	-
1978-S156	2443673.50	1978 Jun 14	R-36M 15A14	-	51035-415-08T?	15A14 UBP-18	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109	-	-	1000?	-	Kura
1978-S327	2443680.50	1978 Jun 21	R-36M 15A14	-	215T	15A14 62 RD UBP-1	1 BB 15F141	MGCh 15B85	-	ALEYSK	LC378/2	-	-	1000?	-	Kura
1978-067	2443688.23	1978 Jun 28 1735	Tsiklon-3	-	51035-501(5L)	Kosmos-1025	EPN No. 03.0380?	-	-	NIIP-53	LC32/2	-	-	669	-	-
1978-S170	2443688.50	1978 Jun 29	R-36M 15A14	-	67035-425-18T?	15A14 UBP-19 ZP	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1978-A31	2443690.04	1978 Jun 30 1300	R-36MU 15A18	-	67035-502(6L)	15A18 LKI-4	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	10?	-	(Kura)
1978-S17	2443716.65	1978 Jul 27 0330	R-36MU 15A18	-	45035-503(7L)	15A18-01 LKI-5	10 BB 15F162/AA79	RGCh 15F183-1	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1978-S190	2443718.50	1978 Jul 29	R-36M 15A14	-	44L	15A14 UBP-20 DP	GCh 8F678/EM Mayak	-	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1978-S18	2443728.08	1978 Aug 7 1400	R-36MU 15A18	-	51035-504(8L)	15A18 LKI-6	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1978-S207	2443763.50	1978 Sep 12	R-36M 15A14	-	21T	15A14 UBP-21 ZP	8 BB 15F143U2	RGCh 15B87	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1978-A49	2443780.66	1978 Sep 29 0350	R-36MU 15A18	-	67048-33-204(3L)	15A18 LKI-7	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1978-S19	2443796.56	1978 Oct 15 0130	R-36MU 15A18	-	45035-506(10L)	15A18 LKI-8	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Pacific
1978-S20	2443798.14	1978 Oct 16 1520	R-36MU 15A18	-	67051-21-109(4L)	15A18 LKI-9	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1978-100	2443807.79	1978 Oct 26 0700:00	Tsiklon-3	-	67055-502	Kosmos-1045	Meteor-2 GVM	-	-	NIIP-53	LC32/2	-	-	1708	-	-
1978-S21	2443833.07	1978 Nov 20 1340	R-36MU 15A18	-	51055-507(11L)	15A18 LKI-10	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1978-S22	2443863.09	1978 Dec 20 1410	R-36MU 15A18	-	67055-508(12L)	15A18 LKI-11	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1978-S256	2443862.50	1978 Dec 20	R-36M 15A14	-	45L	15A14 UBP-22 DP	GCh 8F678	-	-	NIIP-5	LC106/100	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-S23	2443868.07	1978 Dec 25 1345	R-36MU 15A18	-	67055-505(9L)	15A18 LKI-12	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1978-S24	2443869.03	1978 Dec 26 1240	R-36MU 15A18	-	45055-509(13L)	15A18 LKI-13	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1979-011	2443917.04	1979 Feb 12 1300:00	Tsiklon-3	-	45055-503	Kosmos-1076	Okean-E NKh No. 1	-	-	NIIP-53	LC32/2	-	-	665	-	-
1979-033	2443982.00	1979 Apr 18 1200	Tsiklon-2	-	45026-504	Kosmos-1094	US-P	-	-	NIIP-5	LC90	-	-	461	-	-
1979-S129	2443982.50	1979 Apr 19	R-36M 15A14	-	46L	15A14 UBP-23 DP	GCh 8F678	-	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1979-036	2443988.92	1979 Apr 25 1000	Tsiklon-2	-	45052-105	Kosmos-1096	US-P	-	-	NIIP-5	LC90	-	-	443	-	-
1979-S18	2443989.03	1979 Apr 25 1240	R-36MU 15A18	-	67087-401(14L)	15A18 LKI-14	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1979-S19	2443989.60	1979 Apr 26 0220	R-36MU 15A18	-	67087-514(24T)	15A18 K-1	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1979-S20	2444023.66	1979 May 30 0350	R-36MU 15A18	-	45087-402(15L)	15A18 LKI-15	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1979-S21	2444052.02	1979 Jun 27 1230	R-36MU 15A18	-	51087-403(16L)	15A18 LKI-16	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1979-S22	2444164.03	1979 Oct 17 1250	R-36MU 15A18	-	67087-404(17L)	15A18 LKI-17	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1979-S23	2444166.63	1979 Oct 20 0305	R-36MU 15A18	-	45087-524-23T	15A18 K-2	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1979-S24	2444201.12	1979 Nov 23 1500	R-36MU 15A18	-	45087-405(18L)	15A18 LKI-18	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC101/93	-	-	1000?	-	Kura
1979-S25	2444205.10	1979 Nov 27 1425	R-36MU 15A18	-	51067-406(19L)	15A18 LKI-19	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1979-S26	2444206.99	1979 Nov 29 1145	R-36MU 15A18	-	51067-534-23T	15A18 UBP-1 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1980-005	2444261.79	1980 Jan 23 0700:00	Tsiklon-3	-	67067-401	Kosmos-1151	Okean-E NKh No. 2	-	-	NIIP-53	LC32/1	-	-	667	-	-
1980-S15	2444297.64	1980 Feb 28 0320?	R-36MU 15A18	-	45033-416-44T	15A18 UBP-2 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1980-S64	2444304.50	1980 Mar 6	R-36M 15A14	-	48L	15A14 UBP-24 DP	GCh 8F678	-	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1980-021	2444312.94	1980 Mar 14 1040	Tsiklon-2	-	51052-106	Kosmos-1167	US-P	-	-	NIIP-5	LC90	-	-	593	-	-
1980-030	2444347.54	1980 Apr 18 0051	Tsiklon-2	-	45055-506	Kosmos-1174	IS	-	-	NIIP-5	LC90	-	-	1659	-	-
1980-S95	2444354.50	1980 Apr 25	R-36M 15A14	-	47L	15A14 UBP-25 DP	GCh 8F678	-	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1980-034	2444358.99	1980 Apr 29 1140	Tsiklon-2	-	51052-103	Kosmos-1176	US-A reactor	-	-	NIIP-5	LC90	-	-	969	-	-
1980-S16	2444386.66	1980 May 27 0355	R-36MU 15A18	-	51033-426-43T	15A18 UBP-3 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1980-S138	2444424.50	1980 Jul 4	R-36M 15A14	-	49L	15A14 UBP-26 DP	GCh 8F678	-	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1980-S163	2444480.50	1980 Aug 29	R-36M 15A14	-	50L	15A14 UBP-27 DP	GCh 8F678	-	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1980-S17	2444512.60	1980 Sep 30 0230	R-36MU 15A18	-	67083-436-43T	15A18 UBP-4 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1980-S18	2444543.63	1980 Oct 31 0305?	R-36MU 15A18	-	51067-534-22T	15A18 UBP-5 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1980-089	2444548.13	1980 Nov 4 1504	Tsiklon-2	-	51028-202	Kosmos-1220	US-P	-	-	NIIP-5	LC90	-	-	904	-	-
1980-S264	2444570.50	1980 Nov 27	R-36M 15A14	-	504	15A14 UBP-28 DKh	1 BB 15F142	MGCh 15B86	-	NIIP-5	-	-	-	1000?	-	Kura
1981-F01	2444627.97	1981 Jan 23 1120	Tsiklon-3	-	45083-621	-	Musson No. 11	-	-	NIIP-53	LC32/1	-	-	200?	-	-
1981-010	2444637.60	1981 Feb 2 0219	Tsiklon-2	-	45028-201	Kosmos-1243	IS	-	-	NIIP-5	LC90	-	-	1014	-	-
1981-S236	2444645.50	1981 Feb 10	R-36M 15A14	-	512	15A14 62 RD UBP-2	1 BB 15F141	MGCh 15B85	-	UZHUR	LC379/1/2	-	-	1000?	-	Kura
1981-S237	2444646.50	1981 Feb 11	R-36M 15A14	-	511	15A14 62 RD UBP-3	1 BB 15F141	MGCh 15B85	-	UZHUR	LC379/1/4	-	-	1000?	-	Kura
1981-S33	2444653.10	1981 Feb 17 1430	R-36MU 15A18	-	51099-718-09T	15A18 UBP-6 ZP	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1981-021	2444669.26	1981 Mar 5 1809	Tsiklon-2	-	67052-104	Kosmos-1249	US-A reactor	-	-	NIIP-5	LC90	-	-	993	-	-
1981-S238	2444668.50	1981 Mar 5	R-36M 15A14	-	507	15A14 62 RD UBP-4	1 BB 15F141	MGCh 15B85	-	UZHUR	LC379/1/3	-	-	1000?	-	Kura
1981-S239	2444668.50	1981 Mar 5	R-36M 15A14	-	502	15A14 62 RD UBP-5	1 BB 15F141	MGCh 15B85	-	UZHUR	LC379/1/7	-	-	1000?	-	Kura
1981-S240	2444669.50	1981 Mar 6	R-36M 15A14	-	501	15A14 62 RD UBP-6	1 BB 15F141	MGCh 15B85	-	UZHUR	LC379/1/10	-	-	1000?	-	Kura
1981-024	2444678.20	1981 Mar 14 1655	Tsiklon-2	-	45048-204	Kosmos-1258	IS	-	-	NIIP-5	LC90	-	-	1023	-	-
1981-028	2444684.49	1981 Mar 20 2345	Tsiklon-2	-	45035-503	Kosmos-1260	US-P	-	-	NIIP-5	LC90	-	-	756	-	-
1981-S243	2444695.50	1981 Apr 1	R-36M 15A14	-	51026-32-503	15A14 UBP 59 RD	8 BB 15F143U1	RGCh 15B87	-	KART	LC373/1/9	-	-	1000?	-	Kura
1981-037	2444715.66	1981 Apr 21 0345	Tsiklon-2	-	51035-504	Kosmos-1266	US-A reactor	-	-	NIIP-5	LC90	-	-	968	-	-
1981-S244	2444722.50	1981 Apr 28	R-36M 15A14	-	509	15A14 UBP 59 RD	8 BB 15F143U1	RGCh 15B87	-	KART	LC373/1/2	-	-	1000?	-	Kura
1981-S245	2444723.50	1981 Apr 29	R-36M 15A14	-	506	15A14 UBP 59 RD	8 BB 15F143U1	RGCh 15B87	-	KART	LC373/1/3	-	-	1000?	-	Kura
1981-S34	2444753.53	1981 May 29 0050	R-36MU 15A18	-	67099-728-08T	15A18 UBP-7	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1981-S35	2444803.54	1981 Jul 18 0100	R-36MU 15A18	-	67083-436-42T	15A18 UBP-8	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Pacific
1981-072	2444820.85	1981 Aug 4 0828	Tsiklon-2	-	67028-203	Kosmos-1286	US-PM1	-	-	NIIP-5	LC90	-	-	449	-	-
1981-S37	2444834.50	1981 Aug 18	R-36MU 15A18	-	211	15A14 UBP 59 RD	8 BB 15F143U1	RGCh 15B87	-	KART	LC373/2/2	-	-	1000?	-	Kura
1981-081	2444841.19	1981 Aug 24 1637	Tsiklon-2	-	51048-205	Kosmos-1299	US-A reactor	-	-	NIIP-5	LC90	-	-	986	-	-
1981-082	2444841.40	1981 Aug 24 2140	Tsiklon-3	-	51099-801	Kosmos-1300	Tselina-D	-	-	NIIP-53	LC32/1	-	-	670	-	-
1981-089	2444862.35	1981 Sep 14 2031	Tsiklon-2	-	67055-505	Kosmos-1306	US-PM	-	-	NIIP-5	LC90	-	-	462	-	-
1981-094	2444869.05	1981 Sep 21 1310	Tsiklon-3	-	67099-802	Aureole 3	AUOS-Z 401 M-A-IK	-	-	NIIP-53	LC32/1	-	-	1998	-	-
1981-098	2444877.83	1981 Sep 30 0800	Tsiklon-3	-	51099-801	Kosmos-1312	Musson No. 12	-	-	NIIP-53	LC32/1	-	-	1504	-	-
1981-S36	2444879.57	1981 Oct 2 0145	R-36MU 15A18	-	45029-739-07T	15A18 UBP-9	GCh 15F183	-	-	NIIP-5	LC103/94	-	-	1000?	-	Pacific
1981-S216	2444936.24	1981 Nov 27 1745	R-36MU 15A18	-	51029-748-06T	15A18 UBP-10	GCh 15F183	-	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1981-117	2444941.99	1981 Dec 3 1147	Tsiklon-3	-	45029-803	Kosmos-1328	Tselina-D	-	-	NIIP-53	LC32/1	-	-	667	-	-
1982-010	2445011.55	1982 Feb 11 0111	Tsiklon-2	-	51035-501	Kosmos-1337	US-PM1	-	-	NIIP-5	LC90	-	-	457	-	-
1982-S28	2445045.30	1982 Mar 16 1905	R-36MU 15A18	-	51074-317-10T	15A18 UBP-11	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	100?	-	(Kura)
1982-025	2445053.91	1982 Mar 25 0950:00	Tsiklon-3	-	67029-805	Meteor-2	Meteor-2 No. 12	-	-	NIIP-53	LC32/1	-	-	963	-	-
1982-038	2445088.91	1982 Apr 29 0955	Tsiklon-2	-	67035-502	Kosmos-1355	US-PM1	-	-	NIIP-5	LC90	-	-	445	-	-
1982-043	2445104.32	1982 May 14 1939	Tsiklon-2	-	51055-507	Kosmos-1365	US-A reactor	-	-	NIIP-5	LC90	-	-	987	-	-
1982-052	2445122.08	1982 Jun 1 1358	Tsiklon-2	-	51083-622	Kosmos-1372	US-A reactor	-	-	NIIP-5	LC90	-	-	982	-	-
1982-S29	2445124.31	1982 Jun 3 1920	R-36MU 15A18	-	51074-317-03T	15A18 UBP-12	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1982-059	2445131.23	1982 Jun 10 1737	Tsiklon-3	-	51029-804	Kosmos-1378	Tselina-D	-	-	NIIP-53	LC32/1	-	-	665	-	-
1982-060	2445138.96	1982 Jun 18 1104	Tsiklon-2	-	45083-624	Kosmos-1379	IS-P Uran	-	-	NIIP-5	LC90	-	-	1019	-	-
1982-S256	2445149.05	1982 Jun 28 1305	R-36MU 15A18	-	67074-327-08T	15A18 UBP-13	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1982-S138	2445166.31	1982 Jul 15 1925	R-36M 15A14	-	45046-315-08	15A14 UBP-29	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1982-S30	2445177.50	1982 Jul 27	R-36MU 15A18	-	67035-425-08T	15A18 UBP 59 RD	10 BB 15F162/AA79	RGCh 15F183	-	KART	LC373/4/2	-	-	1000?	-	Kura
1982-S156	2445194.30	1982 Aug 12 1905	R-36M 15A14	-	45046-315-05	15A14 UBP-30	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1982-084	2445211.92	1982 Aug 30 1006	Tsiklon-2	-	45033-621	Kosmos-1402	US-A	-	-	NIIP-5	LC90	-	-	267	-	-
1982-088	2445217.24	1982 Sep 4 1750	Tsiklon-2	-	67083-623	Kosmos-1405	US-P	-	-	NIIP-5	LC90	-	-	462	-	-
1982-092	2445228.70	1982 Sep 16 0455	Tsiklon-3	-	45029-806	Kosmos-1408	Tselina-D	-	-	NIIP-53	LC32/2	-	-	679	-	-
1982-096	2445236.89	1982 Sep 24 0915	Tsiklon-3	-	45029-803	Kosmos-1410	Musson No. 13	-	-	NIIP-53	LC32/1	-	-	1504	-	-
1982-099	2445244.50	1982 Oct 2 0001	Tsiklon-2	-	51067-403	Kosmos-1412	US-A reactor	-	-	NIIP-5	LC90	-	-	1002	-	-
1982-S200	2445327.06	1982 Dec 23 1320	R-36M 15A14	-	45046-315-15	15A14 UBP-31	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1983-S21	2445374.01	1983 Feb 8 1210	R-36MU 15A18	-	45042-613-08T	15A18 UBP-14	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1983-S60	2445383.32	1983 Feb 17 1940	R-36M 15A14	-	45046-315-03	15A14 UBP-32	8 BB 15F143U1	RGCh 15B87	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1983-S22	2445411.03	1983 Mar 17 1238	R-36MU 15A18	-	67014-327-07	15A18 UBP-15 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1983-037	2445448.10	1983 Apr 23 1430	Tsiklon-3	-	51029-807	Kosmos-1455	Tselina-D	-	-	NIIP-53	LC32/2	-	-	668	-	-
1983-044	2445461.94	1983 May 7 1030	Tsiklon-2	-	45099-806	Kosmos-1461	US-P	-	-	NIIP-5	LC90	-	-	887	-	-
1983-061	2445508.50	1983 Jun 22 2358	Tsiklon-3	-	45074-703	Kosmos-1470	Tselina-D	-	-	NIIP-53	LC32/2	-	-	670	-	-
1983-S23	2445528.93	1983 Jul 13 1025	R-36MU 15A18	-	45029-738-05T	15A18 UBP-16 K	10 BB 15F162	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1983-S125	2445530.06	1983 Jul 14 1320	R-36M 15A14	-	51026-325-02	15A14 UBP-33	8 BB 15F143U	RGCh 15B87 Osnashchenie	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1983-S273	2445534.50	1983 Jul 19	R-36M 15A14	-	-	15A14 UBP 38 RD	-	-	-	DERZH	LC371/3	-	-	1000?	-	Kura
1983-S84	2445576.98	1983 Aug 30 1135	R-36M 15A14	-	45046-315-04	15A14 UBP-34	8 BB 15F143U	RGCh 15B87 Osnashchenie	-	NIIP-5	LC106/100	-	-	1000?	-	Kura
1983-099	2445605.83	1983 Sep 28 0759	Tsiklon-3	-	51042-302-12L	Kosmos-1500	Okean-OE NKhM No. 1	-	-	NIIP-53	LC32/1	-	-	667	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-S187	2445618.70	1983 Oct 11 0450	R-36M 15A14	-	45046-315-10	15A14 UBP-35	8 BB 15F143U	RGCh 15B87 Osnashchenie	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1983-S24	2445633.70	1983 Oct 26 0450	R-36MU 15A18	-	45029-738-03	15A18 UPB-17 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1983-110	2445636.85	1983 Oct 29 0830	Tsiklon-2	-	45083-627	Kosmos-1507	US-PM1	-	-	NIIP-5	LC90	-	-	623	-	-
1983-115	2445663.02	1983 Nov 24 1233	Tsiklon-3	-	51074-701	Kosmos-1510	Musson No. 14	-	-	NIIP-53	LC32/2	-	-	1525	-	-
1983-122	2445684.02	1983 Dec 15 1225	Tsiklon-3	-	67014-708	Kosmos-1515	Tselina-D	-	-	NIIP-53	LC32/2	-	-	665	-	-
1984-013	2445738.89	1984 Feb 8 0923	Tsiklon-3	-	45014-706	Kosmos-1536	Tselina-D	-	-	NIIP-53	LC32/2	-	-	667	-	-
1984-027	2445775.21	1984 Mar 15 1705	Tsiklon-3	-	67014-705	Kosmos-1544	Tselina-D	-	-	NIIP-53	LC32/2	-	-	684	-	-
1984-S211	2445818.27	1984 Apr 27 1835	R-36MU 15A18	-	51086-111-5T	15A18 UBP-18 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1984-053	2445851.28	1984 May 30 1846	Tsiklon-2	-	45067-402	Kosmos-1567	US-PM1	-	-	NIIP-5	LC90	-	-	446	-	-
1984-069	2445880.51	1984 Jun 29 0021	Tsiklon-2	-	67067-401	Kosmos-1579	US-A reactor	-	-	NIIP-5	LC90	-	-	992	-	-
1984-072	2445886.65	1984 Jul 5 0335:00	Tsiklon-3	-	67074-702	Meteor-2	Meteor-2 No. 16	-	-	NIIP-53	LC32/2	-	-	971	-	-
1984-083	2445920.45	1984 Aug 7 2250:34	Tsiklon-2	-	51099-807	Kosmos-1588	US-PM1	-	-	NIIP-5	LC90	-	-	445	-	-
1984-084	2445921.01	1984 Aug 8 1208	Tsiklon-3	-	45042-301	Kosmos-1589	Musson No. 15	-	-	NIIP-53	LC32/2	-	-	1504	-	-
1984-S30	2445921.50	1984 Aug 9	R-36M 15A14	-	-	15A18 UBP 59 RD	10 BB 15F162/AA79	RGCh 15F183	-	KART	LC373/4/1	-	-	1000?	-	Kura
1984-105	2445971.75	1984 Sep 28 0600:00	Tsiklon-3	-	51032-311-16L	Kosmos-1602	Okean-OE NKhM No. 2	-	-	NIIP-53	LC32/2	-	-	673	-	-
1984-111	2445992.24	1984 Oct 18 1746	Tsiklon-3	-	51074-701	Kosmos-1606	Tselina-D	-	-	NIIP-53	LC32/2	-	-	667	-	-
1984-112	2446005.02	1984 Oct 31 1229	Tsiklon-2	-	51083-625	Kosmos-1607	US-A reactor	-	-	NIIP-5	LC90	-	-	998	-	-
1984-S129	2446018.47	1984 Nov 13 2322	R-36MU 15A18	-	51076-811-14T	15A18 UBP-19 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1984-120	2446032.10	1984 Nov 27 1422:00	Tsiklon-3	-	51014-707	Kosmos-1612	Meteor-3 No. 1	-	-	NIIP-53	LC32/1	-	-	1230	-	-
1985-003	2446081.12	1985 Jan 15 1450:59	Tsiklon-3	-	67042-303	Kosmos-1617/1622	Strela-3	-	-	NIIP-53	LC32/1	-	-	1475	-	-
1985-008	2446089.33	1985 Jan 23 1958	Tsiklon-2	-	67083-626	Kosmos-1625	US-PM	-	-	NIIP-5	LC90	-	-	399	-	-
1985-009	2446090.20	1985 Jan 24 1645	Tsiklon-3	-	51014-710	Kosmos-1626	Tselina-D	-	-	NIIP-53	LC32/2	-	-	666	-	-
1985-013	2446103.41	1985 Feb 6 2145:00	Tsiklon-3	-	51014-704	Meteor-2	Meteor-2 No. 13	-	-	NIIP-53	LC32/1	-	-	966	-	-
1985-020	2446130.15	1985 Mar 5 1539	Tsiklon-3	-	67029-808	Kosmos-1633	Tselina-D	-	-	NIIP-53	LC32/2	-	-	659	-	-
1985-030	2446174.40	1985 Apr 18 2140:43	Tsiklon-2	-	51099-801	Kosmos-1646	US-PM1	-	-	NIIP-5	LC90	-	-	449	-	-
1985-047	2446230.94	1985 Jun 14 1036	Tsiklon-3	-	45032-307	Kosmos-1660	Musson No. 17	-	-	NIIP-53	LC32/1	-	-	1529	-	-
1985-058	2446255.49	1985 Jul 8 2340	Tsiklon-3	-	45042-301	Kosmos-1666	Tselina-D	-	-	NIIP-53	LC32/2	-	-	670	-	-
1985-064	2446278.73	1985 Aug 1 0536	Tsiklon-2	-	51099-804	Kosmos-1670	US-A reactor	-	-	NIIP-5	LC90	-	-	1014	-	-
1985-069	2446285.99	1985 Aug 8 1149	Tsiklon-3	-	67032-306	Kosmos-1674	Tselina-D	-	-	NIIP-53	LC32/1	-	-	666	-	-
1985-075	2446301.44	1985 Aug 23 2233	Tsiklon-2	-	45099-803	Kosmos-1677	US-A reactor	-	-	NIIP-5	LC90	-	-	1005	-	-
1985-082	2446327.56	1985 Sep 19 0132	Tsiklon-2	-	67099-802	Kosmos-1682	US-PM1	-	-	NIIP-5	LC90	-	-	517	-	-
1985-S270	2446328.50	1985 Sep 20	R-36MU 15A18	-	-	15A18 62 RD UBP-1	10 BB 15F162/AA79	RGCh 15F183	-	UZHUR	LC379/3/2	-	-	1000?	-	Kura
1985-094	2446348.40	1985 Oct 9 2135	Tsiklon-3	-	51076-111	Kosmos-1690/1695	Strela-3	-	-	NIIP-53	LC32/1	-	-	1474	-	-
1985-100	2446362.60	1985 Oct 24 0230:00	Tsiklon-3	-	45061-504	Meteor-3	Meteor-3 No. 2	-	-	NIIP-53	LC32/1	-	-	1253	-	-
1985-108	2446392.43	1985 Nov 22 2220:00	Tsiklon-3	-	45032-310	Kosmos-1703	Tselina-D	-	-	NIIP-53	LC32/2	-	-	669	-	-
1985-113	2446412.16	1985 Dec 12 1551	Tsiklon-3	-	51042-302	Kosmos-1707	Tselina-D	-	-	NIIP-53	LC32/1	-	-	667	-	-
1985-119	2446425.58	1985 Dec 26 0150:00	Tsiklon-3	-	51032-305	Meteor-2	Meteor-2 No. 14	-	-	NIIP-53	LC32/1	-	-	964	-	-
1986-S186	2446430.50	1986	R-36MU 15A18	-	-	15A18 UBP 38 RD	10 BB 15F162/AA79	RGCh 15F183	-	DERZH	LC371/3	-	-	1000?	-	Kura
1986-006	2446447.81	1986 Jan 17 0721:09	Tsiklon-3	-	51032-308	Kosmos-1726	Tselina-D	-	-	NIIP-53	LC32/1	-	-	666	-	-
1986-S12	2446467.04	1986 Feb 5 1300	R-36MU 15A18	-	45087-524-18	15A18 UBP-20 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC102/32	-	-	1000?	-	Kura
1986-015	2446472.79	1986 Feb 11 0656:00	Tsiklon-3	-	45014-709	Kosmos-1732	Musson No. 16	-	-	NIIP-53	LC32/2	-	-	1526	-	-
1986-018	2446481.46	1986 Feb 19 2304:00	Tsiklon-3	-	45041-507	Kosmos-1733	Tselina-D	-	-	NIIP-53	LC32/1	-	-	664	-	-
1986-021	2446488.57	1986 Feb 27 0144	Tsiklon-2	-	45086-101	Kosmos-1735	US-PM	-	-	NIIP-5	LC90	-	-	446	-	-
1986-024	2446510.92	1986 Mar 21 1005	Tsiklon-2	-	45029-812	Kosmos-1736	US-A reactor	-	-	NIIP-5	LC90	-	-	1012	-	-
1986-A06	2446512.83	1986 Mar 23 0750	R-36M2 15A18M	-	51041-502(1L)	15A18M LKI-1	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC101/93	-	-	0	0	(Kura)
1986-025	2446515.31	1986 Mar 25 1926	Tsiklon-2	-	67029-811	Kosmos-1737	US-PM1	-	-	NIIP-5	LC90	-	-	454	-	-
1986-034	2446565.68	1986 May 15 0426:00	Tsiklon-3	-	45032-304	Kosmos-1743	Tselina-D	-	-	NIIP-53	LC32/1	-	-	667	-	-
1986-039	2446577.90	1986 May 27 0930:00	Tsiklon-3	-	67076-109	Meteor-2	Meteor-2 No. 18	-	-	NIIP-53	LC32/1	-	-	962	-	-
1986-046	2446593.70	1986 Jun 12 0443:00	Tsiklon-3	-	51086-102	Kosmos-1758	Tselina-D	-	-	NIIP-53	LC32/1	-	-	672	-	-
1986-055	2446640.38	1986 Jul 28 2107:59	Tsiklon-3	-	51061-502	Kosmos-1766	Okean-O1 NKhM No. 3	-	-	NIIP-53	LC32/2	-	-	669	-	-
1986-059	2446646.71	1986 Aug 4 0508	Tsiklon-2	-	67099-805	Kosmos-1769	US-PM1	-	-	NIIP-5	LC90	-	-	449	-	-
1986-062	2446663.04	1986 Aug 20 1258	Tsiklon-2	-	67099-808	Kosmos-1771	US-A reactor	-	-	NIIP-5	LC90	-	-	1007	-	-
1986-A08	2446663.65	1986 Aug 21 0340	R-36M2 15A18M	-	67041-503(2L)	15A18M LKI-2	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	70?	-	(Kura)
1986-074	2446704.27	1986 Sep 30 1834:00	Tsiklon-3	-	67032-309	Kosmos-1782	Tselina-D	-	-	NIIP-53	LC32/1	-	-	750	-	-
1986-F06	2446718.73	1986 Oct 15 0524:08	Tsiklon-3	-	67061-503(19S)	-	Strela-3	-	-	NIIP-53	LC32/2	-	-	20?	-	-
1986-A12	2446761.62	1986 Nov 27 0250	R-36M2 15A18M	-	51038-401(3L)	15A18M LKI-3	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	100?	-	(Kura)
1986-094	2446766.79	1986 Dec 2 0700:00	Tsiklon-3	-	45086-104	Kosmos-1803	Musson No. 18	-	-	NIIP-53	LC32/1	-	-	1504	-	-
1986-097	2446774.81	1986 Dec 10 0730:00	Tsiklon-3	-	67086-103	Kosmos-1805	Tselina-R	-	-	NIIP-53	LC32/2	-	-	667	-	-
1986-101	2446782.83	1986 Dec 18 0800:00	Tsiklon-3	-	45061-501	Kosmos-1809	AUOS-Z 501 Ionozond-E	-	-	NIIP-53	LC32/2	-	-	968	-	-
1987-001	2446800.56	1987 Jan 5 0120:00	Tsiklon-3	-	51086-105	Meteor-2	Meteor-2 No. 17	-	-	NIIP-53	LC32/2	-	-	962	-	-
1987-003	2446809.88	1987 Jan 14 0905:00	Tsiklon-3	-	45086-101	Kosmos-1812	Tselina-D	-	-	NIIP-53	LC32/2	-	-	666	-	-
1987-A01	2446812.05	1987 Jan 16 1315	R-36MU 15A18	-	51026-325-09	15A18 UBP-21 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	100?	-	(Kura)
1987-011	2446828.48	1987 Feb 1 2330	Tsiklon-2	-	51076-105	Kosmos-1818	Plazma-A No. 1	-	-	NIIP-5	LC90	-	-	816	-	-
1987-020	2446846.70	1987 Feb 20 0443:00	Tsiklon-3	-	67076-106	Kosmos-1823	Musson No. 19	-	-	NIIP-53	LC32/2	-	-	1527	-	-
1987-024	2446858.13	1987 Mar 3 1503:00	Tsiklon-3	-	51076-108	Kosmos-1825	Tselina-D	-	-	NIIP-53	LC32/2	-	-	666	-	-
1987-026	2446868.05	1987 Mar 13 1311:56	Tsiklon-3	-	67058-408	Kosmos-1827/1832	Strela-3	-	-	NIIP-53	LC32/2	-	-	1471	-	-
1987-S30	2446879.63	1987 Mar 25 0310	R-36M2 15A18M	-	67038-402(4L)	15A18M LKI-4	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1987-031	2446893.66	1987 Apr 8 0351:21	Tsiklon-2	-	45029-809	Kosmos-1834	US-PM	-	-	NIIP-5	LC90	-	-	430	-	-
1987-S28	2446901.00	1987 Apr 15 1200	R-36MU 15A18	-	51086-811-03	15A18 UBP-22 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1987-038	2446912.50	1987 Apr 27 0000:00	Tsiklon-3	-	51058-407	Kosmos-1842	Tselina-D	-	-	NIIP-53	LC32/2	-	-	705	-	-
1987-S31	2446944.03	1987 May 28 1245	R-36M2 15A18M	-	45038-403(5L)	15A18M LKI-5	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1987-S32	2446949.57	1987 Jun 3 0145	R-36M2 15A18M	-	51058-405(6L)	15A18M LKI-6	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1987-A10	2446955.60	1987 Jun 9 0220	R-36M2 15A18M	-	51058-404(7L)	15A18M LKI-7	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC105/99	-	-	100?	-	(Kura)
1987-052	2446965.40	1987 Jun 18 2133	Tsiklon-2	-	51029-810	Kosmos-1860	US-A ROCh	-	-	NIIP-5	LC90	-	-	996	-	-
1987-055	2446978.32	1987 Jul 1 1935:00	Tsiklon-3	-	51061-505	Kosmos-1862	Tselina-D	-	-	NIIP-53	LC32/2	-	-	670	-	-
1987-S29	2446985.08	1987 Jul 8 1350	R-36MU 15A18	-	51086-811-02	15A18 UBP-23 K	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1987-060	2446987.15	1987 Jul 10 1535:00	Tsiklon-2	-	51029-813	Kosmos-1867	Plazma-A No. 2	-	-	NIIP-5	LC90	-	-	837	-	-
1987-S38	2446992.50	1987 Jul 16	R-36MU 15A18	-	-	15A18 UBP 59 RD	10 BB 15F162/AA79	RGCh 15F183	-	KART	LC376/4/6	-	-	1000?	-	Kura
1987-062	2446992.68	1987 Jul 16 0425:00	Tsiklon-3	-	67038-402	Kosmos-1869	Okean-O1 NKhM No. 4	-	-	NIIP-53	LC32/2	-	-	687	-	-
1987-S229	2446999.50	1987 Jul 23	R-36MU 15A18	-	-	15A18 62 RD UBP-4	10 BB 15F162/AA79	RGCh 15F183	-	UZHUR	LC379/10/4	-	-	1000?	-	Kura
1987-068	2447025.60	1987 Aug 18 0227:00	Tsiklon-3	-	51041-508	Meteor-2	Meteor-2 No. 21	-	-	NIIP-53	LC32/1	-	-	964	-	-
1987-S33	2447042.55	1987 Sep 4 0105	R-36M2 15A18M	-	45058-406(8L)	15A18M LKI-8	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1987-074	2447046.49	1987 Sep 7 2350:09	Tsiklon-3	-	67095-603	Kosmos-1875/1880	Strela-3	-	-	NIIP-53	LC32/1	-	-	1474	-	-
1987-S34	2447049.23	1987 Sep 10 1735	R-36M2 15A18M	-	51058-407(9L)	15A18M LKI-9	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1987-S35	2447068.50	1987 Sep 30 0005	R-36M2 15A18M	-	45095-601(10L)	15A18M LKI-10	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC109/95	-	-	1000?	-	Pacific
1987-A15	2447069.63	1987 Oct 1 0305	R-36M2 15A18M	-	67058-408(11L)	15A18M LKI-11	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	0?	-	(Pacific)

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-086	2447079.41	1987 Oct 10 2148:30	Tsiklon-2	-	67029-814	Kosmos-1890	US-PM No. 10L	-	-	NIIP-5	LC90	-	-	420	-	-
1987-S148	2447083.06	1987 Oct 14 1320	R-36MU 15A18	-	51074-317-07	15A18 UBP-24 K	10 BB 15F162	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1987-088	2447088.88	1987 Oct 20 0909:00	Tsiklon-3	-	51038-401	Kosmos-1892	Tselina-D	-	-	NIIP-53	LC32/1	-	-	666	-	-
1987-S36	2447111.76	1987 Nov 12 0610	R-36M2 15A18M	-	51095-602(12L)	15A18M LKI-12	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1987-S37	2447124.76	1987 Nov 25 0613	R-36M2 15A18M	-	67095-603(13L)	15A18M LKI-13	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1987-101	2447141.74	1987 Dec 12 0540:00	Tsiklon-2	-	45041-504	Kosmos-1900	US-AM reactor	-	-	NIIP-5	LC90	-	-	868	-	-
1987-S204	2447154.71	1987 Dec 25 0458	R-36M2 15A18M	-	45095-604(14L)	15A18M LKI-14	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1988-001	2447166.82	1988 Jan 6 0741:00	Tsiklon-3	-	45076-110	Kosmos-1908	Tselina-D No. 60L	-	-	NIIP-53	LC32/2	-	-	667	-	-
1988-002	2447175.66	1988 Jan 15 0349:21	Tsiklon-3	-	67038-405(25S)	Kosmos-1909/1914	Strela-3	-	-	NIIP-53	LC32/1	-	-	1473	-	-
1988-005	2447190.96	1988 Jan 30 1059:59	Tsiklon-3	-	51038-404	Meteor-2	Meteor-2 No. 20	-	-	NIIP-53	LC32/1	-	-	965	-	-
1988-S36	2447200.57	1988 Feb 9 0145	R-36M2 15A18M	-	45065-607(16L)	15A18M LKI-15	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC109/95	-	-	0?	-	(Kura)
1988-019	2447235.10	1988 Mar 14 1421:00	Tsiklon-2	-	67074-702	Kosmos-1932	US-A reactor	-	-	NIIP-5	LC90	-	-	1098	-	-
1988-020	2447236.28	1988 Mar 15 1850:00	Tsiklon-3	-	51095-602	Kosmos-1933	Tselina-D No. 61L	-	-	NIIP-53	LC32/2	-	-	663	-	-
1988-A04	2447239.06	1988 Mar 18 1330	R-36M2 15A18M	-	67065-606(15L)	15A18M LKI-16	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC140/96	-	-	1000?	-	(Kura)
1988-S37	2447272.12	1988 Apr 20 1500	R-36M2 15A18M	-	51065-608(17L)	15A18M LKI-17	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1988-S33	2447287.13	1988 May 5 1510	R-36MU 15A18	-	51029-748-04	15A18 UBP-25	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1988-045	2447309.62	1988 May 28 0249:00	Tsiklon-2	-	45074-703	Kosmos-1949	US-PU No. 2	-	-	NIIP-5	LC90	-	-	419	-	-
1988-046	2447311.83	1988 May 30 0800:00	Tsiklon-3	-	45095-601	Kosmos-1950	Musson No. 21	-	-	NIIP-53	LC32/1	-	-	1523	-	-
1988-050	2447326.64	1988 Jun 14 0318:00	Tsiklon-3	-	45058-406	Kosmos-1953	Tselina-D No. 64L	-	-	NIIP-53	LC32/2	-	-	669	-	-
1988-056	2447347.91	1988 Jul 5 0945:00	Tsiklon-3	-	45065-201(23L)	Okean	Okean-O1 NKhM No. 5	-	-	NIIP-53	LC32/1	-	-	668	-	-
1988-S181	2447360.50	1988 Jul 18	R-36MU 15A18	-	-	15A18 UBP 38 RD	10 BB 15F162/AA79	RGCh 15F183	-	DERZH	LC371/8	-	-	1000?	-	Kura
1988-064	2447368.71	1988 Jul 26 0501:00	Tsiklon-3	-	67061-506(24L)	Meteor-3	Meteor-3 No. 3	-	-	NIIP-53	LC32/2	-	-	1246	-	-
1988-S34	2447413.99	1988 Sep 9 1150	R-36MU 15A18	-	51074-317-01	15A18 UBP-26	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	100?	-	(Kura)
1988-093	2447445.83	1988 Oct 11 0802:00	Tsiklon-3	-	45038-403	Kosmos-1975	Tselina-D No. 67L	-	-	NIIP-53	LC32/1	-	-	666	-	-
1988-101	2447483.51	1988 Nov 18 0012:28	Tsiklon-2	-	45029-815	Kosmos-1979	US-PM No. 8L	-	-	NIIP-5	LC90	-	-	428	-	-
1988-S38	2447483.70	1988 Nov 18 0455	R-36M2 15A18M	-	45065-216-01(18L)	15A18M LKI-18	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1988-S39	2447487.77	1988 Nov 22 0630	R-36M2 15A18M	-	45079-512-05	15A18M K-1	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1988-S40	2447509.69	1988 Dec 14 0440	R-36M2 15A18M	-	67019-203	15A18M LKI-19	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1988-S182	2447514.50	1988 Dec 19	R-36MU 15A18	-	-	15A18 UBP 38 RD	10 BB 15F162/AA79	RGCh 15F183	-	DERZH	LC371/3	-	-	1000?	-	Kura
1988-S35	2447517.92	1988 Dec 22 1005	R-36MU 15A18	-	45042-613-06	15A18 UBP-27	10 BB 15F162/AA79	RGCh 15F183	-	NIIP-5	LC104/92	-	-	1000?	-	Kura
1988-113	2447518.81	1988 Dec 23 0720:00	Tsiklon-3	-	67019-206(26L)	Kosmos-1985	Kol'tso No. 1L	-	-	NIIP-53	LC32/1	-	-	542	-	-
1989-S21	2447544.68	1989 Jan 18 0415	R-36M2 15A18M	-	45019-201(20L)	15A18M LKI-20	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC109/95	-	-	1000?	-	Kura
1989-009	2447568.13	1989 Feb 10 1513:56	Tsiklon-3	-	67065-606	Kosmos-1994/1999	Strela-3	-	-	NIIP-53	LC32/1	-	-	1474	-	-
1989-018	2447585.67	1989 Feb 28 0405:00	Tsiklon-3	-	45065-607	Meteor-2	Meteor-2 No. 22	-	-	NIIP-53	LC32/2	-	-	969	-	-
1989-S22	2447627.68	1989 Apr 11 0426	R-36M2 15A18M	-	67019-206	15A18M LKI-21	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1989-F01	2447686.92	1989 Jun 9 1010:00	Tsiklon-3	-	45019-210	Okean	Okean-O1 No. 4 (NKhM)	-	-	NIIP-53	LC32/2	-	-	180?	-	-
1989-058	2447731.50	1989 Jul 24 0000:59	Tsiklon-2	-	67032-306	Kosmos-2033	US-PM No. 14L	-	-	GIK-5	LC90	-	-	430	-	-
1989-S23	2447740.07	1989 Aug 1 1340	R-36M2 15A18M	-	67057-319-06T	15A18M K-2	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC103/94	-	-	1000?	-	Kura
1989-S24	2447750.42	1989 Aug 11 2159	R-36M2 15A18M	-	51057-902(23L)	15A18M LKI-22	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC109/95	-	-	1000?	-	Pacific
1989-068	2447766.51	1989 Aug 28 0014:00	Tsiklon-3	-	51065-608	Kosmos-2037	Musson No. 20	-	-	NIIP-53	LC32/2	-	-	1525	-	-
1989-S25	2447771.73	1989 Sep 2 0530	R-36M2 15A18M	-	51019-202	15A18M LKI-23	1 BB 15F176	RGCh 15F175	-	NIIP-5	LC105/99	-	-	1000?	-	Kura
1989-074	2447783.91	1989 Sep 14 0949:06	Tsiklon-3	-	51079-202	Kosmos-2038/2043	Strela-3	-	-	NIIP-53	LC32/1	-	-	1476	-	-
1989-079	2447797.18	1989 Sep 27 1620:00	Tsiklon-2	-	45032-307	Kosmos-2046	US-PU	-	-	GIK-5	LC90	-	-	420	-	-
1989-080	2447797.50	1989 Sep 28 0004:59	Tsiklon-3	-	67057-904	Interkosmos-24	AUOS-Z No. 201	-	-	NIIP-53	LC32/2	-	-	2497	-	-
1989-086	2447824.40	1989 Oct 24 2135:00	Tsiklon-3	-	67057-901	Meteor-3	Meteor-3 No. 4	-	-	NIIP-53	LC32/1	-	-	1264	-	-
1989-092	2447855.47	1989 Nov 24 2322:00	Tsiklon-2	-	51086-102	Kosmos-2051	US-PM	-	-	GIK-5	LC90	-	-	463	-	-
1989-S26	2447886.69	1989 Dec 26 0440	R-36M2 15A18M	-	67057-319-10T	15A18M K-3 ZP	10 BB 15F174	RGCh 15F173	-	NIIP-5	LC140/96	-	-	1000?	-	Kura
1989-100	2447887.50	1989 Dec 27 0000:00	Tsiklon-3	-	45076-107	Kosmos-2053	Kol'tso No. 2L	-	-	NIIP-53	LC32/2	-	-	536	-	-
1990-010	2447921.97	1990 Jan 30 1120:00	Tsiklon-3	-	45095-604	Kosmos-2058	Tselina-R	-	-	NIIP-53	LC32/1?	-	-	665	-	-
1990-018	2447950.54	1990 Feb 28 0055:00	Tsiklon-3	-	45027-909	Okean	Okean-O1 No. 5/NKhM No.	-	-	NIIP-53	LC32/2	-	-	667	-	-
1990-022	2447965.14	1990 Mar 14 1527:00	Tsiklon-2	-	67076-103	Kosmos-2060	US-PM	-	-	GIK-5	LC90	-	-	421	-	-
1990-S95	2448029.00	1990 May 17 1205	R-36MU 15A18	-	45042-613-07	15A18 UBP-28	10 BB 15F162/AA79	RGCh 15F183	-	GIK-5	LC104/92	-	-	1000?	-	Kura
1990-S101	2448054.65	1990 Jun 12 0330	R-36M2 15A18M	-	51013-713-03T	15A18M K-4 ZP	10 BB 15F174	RGCh 15F173	-	GIK-5	LC140/96	-	-	1000?	-	Kura
1990-057	2448070.44	1990 Jun 27 2230:00	Tsiklon-3	-	51095-605/13L	Meteor-2	Meteor-2 No. 23	-	-	NIIP-53	LC32/1	-	-	963	-	-
1990-066	2448102.50	1990 Jul 30 0006:00	Tsiklon-3	-	45079-204	Kosmos-2088	Musson No. 22	-	-	NIIP-53	LC32/1	-	-	1525	-	-
1990-070	2448111.68	1990 Aug 8 0415:07	Tsiklon-3	-	67079-203	Kosmos-2090/2095	Strela-3	-	-	NIIP-53	LC32/2	-	-	1470	-	-
1990-S121	2448120.92	1990 Aug 17 1000	R-36MU 15A18	-	51086-811-05	15A18 UBP-29 K	10 BB 15F162/AA79	RGCh 15F183	-	GIK-5	LC104/92	-	-	1000?	-	Kura
1990-075	2448127.18	1990 Aug 23 1617:00	Tsiklon-2	-	45076-104	Kosmos-2096	US-PM No. 6L	-	-	GIK-5	LC90	-	-	421	-	-
1990-S125	2448132.71	1990 Aug 29 0500	R-36M2 15A18M	-	45057-903(34L)	15A18M LKI-24	6 BB 15F174/4 BB 15F178	RGCh 15F177	-	GIK-5	LC103/94	-	-	1000?	-	Kura
1990-086	2448162.81	1990 Sep 28 0730:00	Tsiklon-3	-	51065-611	Meteor-2	Meteor-2 No. 25	-	-	NIIP-53	LC32/1	-	-	963	-	-
1990-096	2448209.77	1990 Nov 14 0633:40	Tsiklon-2	-	67061-503	Kosmos-2103	US-PM	-	-	GIK-5	LC90	-	-	418	-	-
1990-104	2448224.19	1990 Nov 28 1633:58	Tsiklon-3	-	45013-302(28L)	Kosmos-2106	Kol'tso No. 3L	-	-	NIIP-53	LC32/2	-	-	537	-	-
1990-108	2448229.53	1990 Dec 4 0048:31	Tsiklon-2	-	45061-501	Kosmos-2107	US-PM	-	-	GIK-5	LC90	-	-	419	-	-
1990-S169	2448236.82	1990 Dec 11 0740	R-36M2 15A18M	-	51013-713-10T	15A18M K-5	10 BB 15F174	RGCh 15F173	-	GIK-5	LC140/96	-	-	1000?	-	Kura
1990-114	2448247.81	1990 Dec 22 0728:53	Tsiklon-3	-	67065-609	Kosmos-2114/2119	Strela-3	-	-	NIIP-53	LC32/2	-	-	1476	-	-
1991-005	2448274.98	1991 Jan 18 1134:40	Tsiklon-2	-	51061-502	Kosmos-2122	US-PU	-	-	GIK-5	LC90	-	-	421	-	-
1991-030	2448370.57	1991 Apr 24 0137:00	Tsiklon-3	-	67027-907	Meteor-3	Meteor-3 No. 6	-	-	NIIP-53	LC32/2	-	-	1213	-	-
1991-033	2448393.40	1991 May 16 2140:54	Tsiklon-3	-	51019-205	Kosmos-2143/2148	Strela-3	-	-	NIIP-53	LC32/2	-	-	1477	-	-
1991-S111	2448404.96	1991 May 28 1105	R-36M2 15A18M	-	67027-319-14(36L)	15A18M LKI-25	6 BB 15F174/4 BB 15F178	RGCh 15F177	-	GIK-5	LC105/99	-	-	1000?	-	Kura
1991-039	2448411.84	1991 Jun 4 0810:00	Tsiklon-3	-	45033-305	Okean	Okean-O1 No. 6/NKhM No.	-	-	NIIP-53	LC32/2	-	-	667	-	-
1991-042	2448421.15	1991 Jun 13 1541:00	Tsiklon-3	-	45019-207	Kosmos-2151	Tselina-R	-	-	NIIP-53	LC32/2	-	-	670	-	-
1991-056	2448483.89	1991 Aug 15 0915:00	Tsiklon-3	-	67082-803	Meteor-3	Meteor-3 No. 5/TOMS	-	-	NIIP-53	LC32/2	-	-	1210	-	-
1991-S147	2448511.99	1991 Sep 12 1145	R-36M2 15A18M	-	67027-904(35L)	15A18M LKI-26	6 BB 15F174/4 BB 15F178	RGCh 15F177	-	GIK-5	LC103/94	-	-	1000?	-	Kura
1991-S150	2448516.89	1991 Sep 17 0920	R-36MU 15A18	-	51074-317-08	15A18 UBP-30	10 BB 15F162/AA79	RGCh 15F183	-	GIK-5	LC104/92	-	-	1000?	-	Kura
1991-068	2448527.80	1991 Sep 28 0705:55	Tsiklon-3	-	51057-902	Kosmos-2157/2162	Strela-3	-	-	NIIP-53	LC32/2	-	-	1532	-	-
1991-S162	2448539.92	1991 Oct 10 1005	R-36M2 15A18M	-	45082-418-05T	15A18M K-6	10 BB 15F174	RGCh 15F173	-	GIK-5	LC140/96	-	-	1000?	-	Kura
1991-S175	2448557.76	1991 Oct 28 0610	R-36M2 15A18M	-	45092-418-10T	15A18M K-7	1 BB 15F176	GCh 15F175	-	GIK-5	LC140/96	-	-	1000?	-	Kura
1991-077	2448573.34	1991 Nov 12 2009:33	Tsiklon-3	-	45057-903	Kosmos-2165/2170	Strela-3	-	-	NIIP-53	LC32/1	-	-	1475	-	-
1991-S172	2448580.80	1991 Nov 20 0705	R-36MU 15A18	-	67048-332-15	15A18 UBP-31	10 BB 15F162/AA79	RGCh 15F183	-	GIK-5	LC104/92	-	-	1000?	-	Kura
1991-086	2448608.66	1991 Dec 18 0354:00	Tsiklon-3	-	51033-304	Interkosmos-25	AUOS-Z No. 301	-	-	NIIP-53	LC32/2	-	-	3086	-	-
1992-042	2448817.24	1992 Jul 13 1741:40	Tsiklon-3	-	51019-208	Kosmos-2197/2202	Strela-3	-	-	NIIP-53	LC32/1	-	-	1476	-	-
1992-068	2448916.04	1992 Oct 20 1258:12	Tsiklon-3	-	67019-209	Kosmos-2211/2216	Strela-3	-	-	NIIP-53	LC32/1	-	-	1481	-	-
1992-080	2448950.67	1992 Nov 24 0409:59	Tsiklon-3	-	51027-905	Kosmos-2221	Tselina-D	-	-	NIIP-53	LC32/2?	-	-	665	-	-
1992-092	2448979.02	1992 Dec 22 1236:00	Tsiklon-3	-	67027-910	Kosmos-2226	Musson No. 23	-	-	NIIP-53	LC32/2	-	-	1526	-	-
1992-094	2448982.34	1992 Dec 25 2007:59	Tsiklon-3	-	45027-906	Kosmos-2228	Tselina-D	-	-	NIIP-53	LC32/2	-	-	670	-	-
1993-018	2449077.00	1993 Mar 30 1200:00	Tsiklon-2	-	67042-303	Kosmos-2238	US-PM	-	-	GIK-5	LC90/20	-	-	431	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-024	2449093.83	1993 Apr 16 0749:00	Tsiklon-3	-	51027-908	Kosmos-2242	Tselina-R	-	-	GNIIPV	LC32/1	-	-	669	-	-
1993-029	2449105.65	1993 Apr 28 0339:20	Tsiklon-2	-	45042-304	Kosmos-2244	US-PM	-	-	GIK-5	LC90/20	-	-	433	-	-
1993-030	2449119.12	1993 May 11 1456:01	Tsiklon-3	-	51013-301	Kosmos-2245/2250	Strela-3	-	-	GNIIPV	LC32/1	-	-	1420	-	-
1993-038	2449162.68	1993 Jun 24 0412:41	Tsiklon-3	-	45082-801	Kosmos-2252/2257	Strela-3	-	-	GNIIPV	LC32/1	-	-	1483	-	-
1993-044	2449175.80	1993 Jul 7 0715:00	Tsiklon-2	-	51032-305	Kosmos-2258	US-PM	-	-	GIK-5	LC90/20	-	-	429	-	-
1993-055	2449230.69	1993 Aug 31 0440:00	Tsiklon-3	-	45092-804	Meteor-2	Meteor-2 No. 24	-	-	GNIIPV	LC32/1	-	-	993	-	-
1993-060	2449247.53	1993 Sep 17 0043:10	Tsiklon-2	-	67057-901	Kosmos-2264	US-PM	-	-	GIK-5	LC90/20	-	-	431	-	-
1994-003	2449377.52	1994 Jan 25 0025:00	Tsiklon-3	-	67051-701	Meteor-3	Meteor-3 No. 7	-	-	GNIIPV	LC32/1	-	-	1214	-	-
1994-011	2449395.87	1994 Feb 12 0854:13	Tsiklon-3	-	67013-303	Kosmos-2268/2273	Strela-3	-	-	GNIIPV	LC32/1?	-	-	1478	-	-
1994-014	2449413.64	1994 Mar 2 0325:00	Tsiklon-3	-	51024-504	Koronas-I	AUOS-SM-KI-IK No. 801	-	-	GNIIPV	LC32/1	-	-	529	-	-
1994-F02	2449497.93	1994 May 25 1015:00	Tsiklon-3	-	51082-802	-	Tselina-D	-	-	GNIIPV	LC32/2	-	-	221?	-	-
1994-066	2449637.10	1994 Oct 11 1430:00	Tsiklon-3	-	67033-306	Okean	Okean-O1 No. 7/NKhM No.	-	-	GNIIPV	LC32/2	-	-	673	-	-
1994-072	2449658.54	1994 Nov 2 0104:00	Tsiklon-2	-	51013-301	Kosmos-2293	US-PM	-	-	GIK-5	LC90/20	-	-	433	-	-
1994-078	2449685.62	1994 Nov 29 0254:00	Tsiklon-3	-	51092-805	Geo-IK	Musson No. 24	-	-	GIK-1	LC32/2	-	-	1537	-	-
1994-086	2449713.44	1994 Dec 26 2226:58	Tsiklon-3	-	67034-502	Kosmos-2299/2304	Strela-3	-	-	GIK-1	LC32/2?	-	-	1474	-	-
1995-028	2449876.70	1995 Jun 8 0443:00	Tsiklon-2	-	51041-505	Kosmos-2313	US-PM	-	-	GIK-5	LC90/20	-	-	430	-	-
1995-046	2449960.78	1995 Aug 31 0649:59	Tsiklon-3	-	45025-801	Sich	Okean-O1 No. 8/NKhM 10	-	-	GIK-1	LC32/2	-	-	671	-	-
1995-071	2450071.54	1995 Dec 20 0052:14	Tsiklon-2	-	67041-506	Kosmos-2326	US-PU/Konus-A	-	-	GIK-5	LC90/20	-	-	421	-	-
1996-009	2450132.54	1996 Feb 19 0058:25	Tsiklon-3	-	51034-501	Gonets/Kosmos	Gonets-D1 No. 13/14/15	Strela-3 Blok 32?	-	GIK-1	LC32/1	-	-	1480	-	-
1996-069	2450429.00	1996 Dec 11 1200:00	Tsiklon-2	-	45013-302	Kosmos-2335	US-PU	-	-	GIK-5	LC90/19	-	-	421	-	-
1997-006	2450493.66	1997 Feb 14 0347:22	Tsiklon-3	-	51091-703	Gonets/Kosmos	Gonets-D1 No. 16/17/18	Strela-3 Blok 30?	-	GIK-1	LC32/1	-	-	1476	-	-
1997-S33	2450556.02	1997 Apr 17 1230:19	R-36MU 15A18	-	670-4833-207	15A18-01 UBP-32	10 BB 15F162/AA79	RGCh 15F183	-	GIK-5	LC109/95	-	-	1000?	-	Kura
1997-079	2450791.80	1997 Dec 9 0717:20	Tsiklon-2	-	670-33- 303	Kosmos-2347	US-PU	-	-	GIK-5	LC90/19	-	-	421	-	-
1998-S35	2450918.99	1998 Apr 15 1150:01	R-36MU 15A18	-	510-3541-504	15A18 UBP	10 BB 15F162/AA79	RGCh 15F183/Dnepr Demo	-	GIK-5	LC109/95	-	-	1000?	-	Kura
1998-036	2450980.46	1998 Jun 15 2258:05	Tsiklon-3	-	450-91- 702	Kosmos-2352/2357	Strela-3	-	-	GIK-1	LC32/1	-	-	1893	-	-
1999-021	2451289.71	1999 Apr 21 0459:12	Dnepr	-	670-3542-509	UoSAT-12	UoSAT-12	-	-	GIK-5	LC109/95	-	-	1427	-	-
1999-072	2451538.83	1999 Dec 26 0800:00	Tsiklon-2	-	450-82- 801	Kosmos-2367	US-PU/Konus-A	-	-	GIK-5	LC90/20	-	-	492	-	-
2000-057	2451813.92	2000 Sep 26 1005:00	Dnepr	-	450-8752-403	Tiungsat/Megsat-1/	Dnepr Rideshare 1	GCh 15F183	-	GIK-5	LC109/95	-	-	1375	-	-
2000-F03	2451905.91	2000 Dec 27 0956:31	Tsiklon-3	-	450-34- 503	Gonets/Kosmos	Gonets-D1 No. 19/20/21	-	-	GIK-1	LC32/1	-	-	200?	-	-
2001-032	2452121.83	2001 Jul 31 0800:00	Tsiklon-3	-	510-25- 802	Koronas-F	AUOS-SM-KF	-	-	GIK-1	LC32/2	-	-	534	-	-
2001-057	2452264.67	2001 Dec 21 0400:00	Tsiklon-2	-	510-82- 802	Kosmos-2383	US-PU No. 9L	-	-	GIK-5	LC90/20	-	-	422	-	-
2001-058	2452271.64	2001 Dec 28 0324:24	Tsiklon-3	-	670-21- 803	Gonets/Kosmos	Gonets-D1 No. 22/23/24	-	-	GIK-1	LC32/1	-	-	1483	-	-
2002-058	2452629.21	2002 Dec 20 1700:00	Dnepr	-	510-3541-505	TB/Latinsat/	Dnepr Rideshare 2	Rubin-2/GCh 15F183	-	GIK-5	LC109/95	-	-	1033	-	-
2004-020	2453153.75	2004 May 28 0600:00	Tsiklon-2	-	670-92- 803	Kosmos-2405	US-PU	-	-	GIK-5	LC90/20	-	-	422	-	-
2004-025	2453185.77	2004 Jun 29 0630:06	Dnepr	-	450-3341-631	Demeter/Latinsat/	Dnepr Rideshare 3	Latinsat D	-	GIK-5	LC109/95	-	-	1195	-	-
2004-S72	2453361.85	2004 Dec 22 0830:20	R-36M2 15A18M	-	450-7951-210	15A18M UBP 13 RD	RGCh 15F173(10x 15F174)	Zaryad'e-2-18M-1	-	YAS	Sh370/35	-	-	1000?	-	-
2004-052	2453363.97	2004 Dec 24 1120:00	Tsiklon-3	-	450-43- 701 40L	Sich-1M	Okean-O1 No. 9	-	-	GIK-1	LC32/2	-	-	640	-	-
2005-031	2453606.38	2005 Aug 23 2109:59	Dnepr	-	510-3342-621	OICETS/INDEX	OICETS	-	-	GIK-5	LC109/95	-	-	1198	-	-
2006-026	2453911.67	2006 Jun 25 0400	Tsiklon-2	-	450-92- 804	Kosmos-2421	US-PU/Konus-A	-	-	GIK-5	LC90/20	-	-	421	-	-
2006-029	2453929.12	2006 Jul 12 1453:36	Dnepr	-	450-2973-806	Genesis-1	Bigelow Genesis-1	-	-	YAS	Sh370/11	-	-	1761	-	-
2006-F03	2453943.32	2006 Jul 26 1943:05	Dnepr	-	450-2973-804	BelKA/P-PODs	Dnepr Rideshare 4	-	-	GIK-5	LC109/95	-	-	40?	-	-
2006-S77	2454090.81	2006 Dec 21 0720	R-36M2 15A18M	-	450-7951-213	15A18M UBP 13 RD	RGCh 15F173(10x 15F174)	Zaryad'e-2-18M-1	-	YAS	Sh370/35	-	-	1000?	-	-
2007-012	2454207.78	2007 Apr 17 0646:39	Dnepr	-	510-9971-806	Misr/Saudisat-3/	Dnepr Rideshare 5	Egyptsat 1	-	GIK-5	LC109/95	-	-	1080	-	-
2007-026	2454266.59	2007 Jun 15 0214	Dnepr	-	670-8343-630	TerraSAR-X	TerraSAR-X	-	-	GIK-5	LC109/95	-	-	1025	-	-
2007-028	2454280.13	2007 Jun 28 1502:20	Dnepr	-	670-8343-634	Genesis-2	Bigelow Genesis-2	-	-	YAS	Sh370/11	-	-	1823	-	-
2008-040	2454707.80	2008 Aug 29 0715:58	Dnepr	-	670-8343-638	RapidEye 1-5	RapidEye 2	-	-	GIK-5	LC109/95	-	-	1350	-	-
2008-049	2454740.78	2008 Oct 1 0637:21	Dnepr	-	670-8343-637	THEOS	THEOS	-	-	YAS	Sh370/13?	-	-	1173	-	-
2009-003	2454862.06	2009 Jan 30 1330:00	Tsiklon-3	-	450-84- 701	Koronas-Foton	Koronas-Foton	-	-	GIK-1	LC32/2	-	-	563	-	-
2009-041	2455042.28	2009 Jul 29 1846:29	Dnepr	-	510-7681-113	Dubaisat/	Dnepr Rideshare 6	Deimos-1 DMC	-	GIK-5	LC109/95	-	-	1303	-	-
2009-S71	2455189.77	2009 Dec 24 0630:03	R-36M2 15A18M	-	450-7951-202	15A18M UBP 13 RD	RGCh 15F173(10 x 15F174)	Zaryad'e-2-18M-1	-	YAS	Sh370/35	-	-	1000?	-	-
2010-013	2455295.08	2010 Apr 8 1357:05	Dnepr	-	450-4261-304	CryoSat-2	Cryosat 2	-	-	GIK-5	LC109/95	-	-	1120	-	-
2010-028	2455363.11	2010 Jun 15 1442:21	Dnepr	-	450-3261-316	PRISMA/Picard	Picard	-	-	YAS	Sh370/13	-	-	1268	-	-
2010-030	2455368.59	2010 Jun 21 0214:08	Dnepr	-	450-3261-314	Tandem-X	TDX	-	-	GIK-5	LC109/95	-	-	1146	-	-
2011-044	2455790.80	2011 Aug 17 0712:20	Dnepr	-	450-3261-319	Sich-2/	Dnepr Rideshare 7	Edusat-ASI	-	YAS	Sh370/13	-	-	1296	-	-
2013-042	2456527.11	2013 Aug 22 1439:20	Dnepr	-	510-7681-112	Arirang-5	Kompsat-5	-	-	YAS	Sh370/13	-	-	1211	-	-
2013-S94	2456595.91	2013 Oct 30 0952	R-36M2 15A18M	-	450-7951-202	15A18M UBP 13 RD	RGCh 15F173(10x 15F174)	Zaryad'e-2-18M-1	-	YAS	Sh370/35	-	-	1000?	-	-
2013-066	2456617.80	2013 Nov 21 0710:17	Dnepr	-	510-7681-111	Dubaisat-2	Dnepr Rideshare 8	Dubiasat-2/Cubesats	-	YAS	Sh370/13	-	-	1610	-	-
2014-033	2456828.30	2014 Jun 19 1911:11	Dnepr	-	510-7681-108	Deimos-2	Dnepr Rideshare 9	Deimos-2 Cluster	-	YAS	Sh370/13	-	-	1454	-	-
2014-070	2456967.82	2014 Nov 6 0735:55	Dnepr	-	510-7681-109	ASNARO-1	ANSARO-1	-	-	YAS	Sh370/13	-	-	1943	-	-
2015-014	2457107.42	2015 Mar 25 2208:53	Dnepr	-	510-8681-101	Arirang-3A	Kompsat-3A	-	-	YAS	Sh370/13	-	-	1440	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A128	2438300.75	1963 Sep 28 0600	R-36 8K67	-	G 22500-02L	0.000	RVSN	ME	-	-	Test	BML	Glazami	-
1963-S583	2438366.83	1963 Dec 3 0800:29	R-36 8K67	-	G 22500-04L	0.000	RVSN	MS	-	-	Test	MS5-65	Glazami	-
1963-A185	2438376.62	1963 Dec 13 0300	R-36 8K67	-	G 22500-03L	0.000	RVSN	ME	-	-	Test	BML	Kosmodrom0101-11	-
1964-S36	2438410.69	1964 Jan 16 0428:58	R-36 8K67	-	G 22500-05L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	-
1964-A12	2438420.22	1964 Jan 25 1715	R-36 8K67	-	G 22500-06L	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1964-S105	2438445.14	1964 Feb 19 1515:07	R-36 8K67	-	G 22500-07L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	[1715 per BML]
1964-A30	2438452.60	1964 Feb 27 0230:28	R-36 8K67	-	G 22500-08L	0.000	RVSN	MF	U	-	Test	MS5-65	Kosmodrom0101-11	[0420 per BML]
1964-A60	2438511.78	1964 Apr 26 0650	R-36 8K67	-	G 22500-11L	0.000	RVSN	MF	U	-	Test	BML	Glazami	NK0008-71
1964-S261	2438538.71	1964 May 23 0459:50	R-36 8K67	-	G 22500-09L	0.000	RVSN	MF	U	-	Test	MS5-65	Glazami/NK0008-71	[0700 per BML]
1964-S271	2438545.60	1964 May 30 0230:30	R-36 8K67	-	G 22500-10L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	-
1964-S309	2438570.70	1964 Jun 24 0442:27	R-36 8K67	-	G 22500-12L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	[0645 per BML]
1964-S318	2438577.56	1964 Jul 1 0130	R-36 8K67	-	G 22500-13L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1964-S402	2438612.58	1964 Aug 5 0200:29	R-36 8K67	-	G 22500-14L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	[0400]
1964-A119	2438618.58	1964 Aug 11 0200:05	R-36 8K67	-	G 22500-15L	0.000	RVSN	MF	U	-	Test	MS5-65	NK0008-71	[0400]
1964-S461	2438647.59	1964 Sep 9 0213:03	R-36 8K67	-	G 22500-16L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	[0413]
1964-S485	2438663.75	1964 Sep 25 0600	R-36 8K67	-	G 22500-17L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1964-S514	2438678.67	1964 Oct 10 0400	R-36 8K67	-	G 22500-19L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	[0400]
1964-S549	2438697.58	1964 Oct 29 0159	R-36 8K67	-	G 22500-18L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	-
1964-S681	2438744.50	1964 Dec 15 0000?	R-36 8K67	-	G 22500-21L	0.000	RVSN	MS	-	-	Test	MS5-65	Kosmodrom0101-11	-
1965-A08	2438773.71	1965 Jan 13 0502	R-36 8K67	-	R 22500-20L	0.000	RVSN	MF	U	-	Test	MS5-65	Glazami	-
1965-S59	2438790.84	1965 Jan 30 0811	R-36 8K67	-	R 22500-22L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11/NK0	[MS5/0804]
1965-S255	2438877.71	1965 Apr 27 0500	R-36 8K67	-	R 22500-28L	0.000	RVSN	MS	-	-	Test	MS5-65	Glazami	-
1965-S296	2438898.71	1965 May 18 0500	R-36 8K67	-	R 22500-29L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	MS5-65
1965-S422	2438950.50	1965 Jul 9	R-36 8K67	-	R 22500-27L	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-
1965-A117	2438975.68	1965 Aug 3 0415	R-36 8K67	-	U 22500-31L	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1965-S467	2438985.91	1965 Aug 13 0945	R-36 8K67	-	R 22500-26L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-A123	2438993.63	1965 Aug 21 0310	R-36 8K67	-	R 22500-25L	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1965-S533	2439034.69	1965 Oct 1 0440	R-36 8K67	-	R 22500-24L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S547	2439042.71	1965 Oct 9 0505	R-36 8K67	-	U 22500-32L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S555	2439048.67	1965 Oct 15 0405	R-36 8K67	-	R 22500-23L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S583	2439062.63	1965 Oct 29 0312	R-36 8K67	-	U 22500-35L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S590	2439066.68	1965 Nov 2 0418	R-36 8K67	-	U 22500-37L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S616	2439078.62	1965 Nov 14 0300	R-36 8K67	-	U 22500-36L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S652	2439091.50	1965 Nov 27	R-36 8K67	-	U 22500-33L	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-
1965-S665	2439101.67	1965 Dec 7 0405	R-36 8K67	-	U 22500-34L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-U01	2439111.09	1965 Dec 16 1409:22	R-36O 8K69	-	U 22502-01L	3.950	RVSN	TS	-	-	Test	BML	GWU-NH74	Glazami
1965-S698	2439119.67	1965 Dec 25 0400	R-36 8K67	-	U 22502-09T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S699	2439119.67	1965 Dec 25 0401	R-36 8K67	-	U 22503-09T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1965-S701	2439120.92	1965 Dec 26 1000	R-36 8K67	-	U 22504-09T	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	BML1000/1243
1966-U01	2439162.01	1966 Feb 5 1219:49	R-36O 8K69	-	U 22502-02L	3.950	RVSN	TS	-	-	Test	Kosmodrom9904	Glazami	-
1966-E01	2439200.42	1966 Mar 15 2200	R-36O 8K69	-	U 22502-03L	0.000	RVSN	TE	PE	-	Test	BML/Kosmodrom9904	Kosmodrom9904	BML:Mar15-2200
1966-S195	2439214.56	1966 Mar 30 0132	R-36 8K67	-	N 22501-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1966-S206	2439237.68	1966 Apr 22 0418	R-36 8K67	-	N 22502-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	Kosm:Apr2
1966-S235	2439241.64	1966 Apr 26 0315	R-36 8K67	-	U 22501-09T	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-
1966-U02	2439265.31	1966 May 19 1930:00	R-36O 8K69	-	U 22502-04L	3.950	RVSN	TS	-	-	Test	Kosmodrom9904	Glazami	Kosm:May20?
1966-S285	2439274.63	1966 May 29 0305	R-36 8K67	-	U 22500-30L	0.000	RVSN	MS	-	-	Test	BML	Glazami	-
1966-S307	2439286.68	1966 Jun 10 0417	R-36 8K67	-	N 22503-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1966-S355	2439306.64	1966 Jun 30 0325	R-36 8K67	-	N 22500-01T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1966-088	2439386.44	1966 Sep 17 2235:00	R-36O 8K69	-	U 22500-05L	2.450	RVSN	OS	-	G	Sat LEO O 1	Kosmodrom9904	Kosmodrom9904	BML
1966-A110	2439395.61	1966 Sep 27 0232	R-36 8K67	-	N 22504-10T	0.000	RVSN	MF	U	-	OT	Kosmodrom0101-11	-	BML0232/0530
1966-S530	2439404.61	1966 Oct 6 0242	R-36 8K67	-	N 22505-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1966-S548	2439418.77	1966 Oct 20 0635	R-36 8K67	-	N 22500-02T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	BML:or 0635
1966-S558	2439421.60	1966 Oct 23 0228	R-36 8K67	-	N 22506-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1966-101	2439431.53	1966 Nov 2 0045:03	R-36O 8K69	-	N 22500-06L	2.450	RVSN	OF40	S2P	-	Sat LEO P 1	AK15	Kosmodrom9904	Overburn, destruct
1966-S647	2439450.59	1966 Nov 21 0208	R-36 8K67	-	N 22500-04T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1966-A149	2439469.58	1966 Dec 10 0153	R-36 8K67	-	N 22500-03T	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1967-005	2439516.08	1967 Jan 25 1355:01	R-36O 8K69	-	N 22500-07L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S139	2439553.71	1967 Mar 4 0503	R-36 8K67	-	Ya22501-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-F02	2439572.09	1967 Mar 22 1405:02	R-36O 8K69	-	N 22500-08L	3.450	RVSN	OF	S2U	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	Early shutdown
1967-S182	2439580.62	1967 Mar 31 0248	R-36 8K67	-	Ya22502-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-047	2439628.17	1967 May 17 1605:02	R-36O 8K69	-	Ya22500-09L	3.450	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S278	2439641.63	1967 May 31 0312	R-36 8K67	-	N 22500-10T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1967-S292	2439647.61	1967 Jun 6 0245	R-36 8K67	-	N 22507-12T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1967-S302	2439656.62	1967 Jun 15 0255	R-36 8K67	-	N 22500-11T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1967-S323	2439668.61	1967 Jun 27 0235	R-36 8K67	-	Ya22503-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-069	2439689.20	1967 Jul 17 1645:04	R-36O 8K69	-	Ya22500-11L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S351	2439692.08	1967 Jul 20 1400	R-36 8K67	-	Ya22502-15	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1967-074	2439703.20	1967 Jul 31 1645:00	R-36O 8K69	-	Ya22500-12L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-077	2439711.17	1967 Aug 8 1605:02	R-36O 8K69	-	Ya22500-10L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S418	2439737.59	1967 Sep 4 0205	R-36 8K67	-	Ya22504-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-S427	2439741.59	1967 Sep 8 0210	R-36 8K67	-	Ya22502-08T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-089	2439753.11	1967 Sep 19 1445:03	R-36O 8K69	-	Ya22500-14L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S445	2439754.81	1967 Sep 21 0720	R-36 8K67	-	Ya22504K	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-091	2439756.09	1967 Sep 22 1405:05	R-36O 8K69	-	Ya22500-15L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-S462	2439764.67	1967 Oct 1 0410	R-36 8K67	-	Ya22505-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1967-099	2439782.06	1967 Oct 18 1330:01	R-36O 8K69	-	Ya22500-16L	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1967-104	2439790.60	1967 Oct 27 0221:19	Tsiklon-2A	-	N 22500-03L	1.400	RVSN	OS	-	G	Sat LEO O	AK15	NK0008-68	-
1967-106	2439792.05	1967 Oct 28 1315:01	R-36O 8K69	-	Ya22500-13L	3.950	RVSN	OS	-	G	Sat LEO P 1	AK15	Kosmodrom9904	BML
1967-127	2439851.98	1967 Dec 27 1128:51	Tsiklon-2A	-	N 22500-07L	3.800	RVSN	OS	-	G	Sat LEO S	AK15	NK0008-68	-
1968-S159	2439915.65	1968 Feb 29 0330	R-36 8K67	-	V 22501-15T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-023	2439937.90	1968 Mar 22 0930:34	Tsiklon-2A	-	N 22500-08L	3.800	RVSN	OS	-	G	Sat LEO S	AK15	NK0008-68	-
1968-S268	2439964.65	1968 Apr 18 0330	R-36 8K67M	-	Ya22500-03L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1968-036	2439971.17	1968 Apr 24 1600:00	Tsiklon-2A	-	-	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	NK0008-68	-
1968-037	2439971.53	1968 Apr 25 0045:10	R-36O 8K69	-	Ya22500-17L(5MO)	3.950	RVSN	OS	-	G	Sat LEO P 1	AK15	Kosmodrom9904	-
1968-S291	2439974.67	1968 Apr 28 0410	R-36 8K67	-	V 22502-15T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-S313	2439988.50	1968 May 12	R-36 8K67M	-	V 22500-04L	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-U01	2439997.42	1968 May 20 2205:02	R-36O 8K69	-	Ya22500-18L(6MO)	3.950	RVSN	TS	-	-	Test	BML	Kosmodrom9904	-
1968-S341	2439999.50	1968 May 23	R-36 8K67M	-	V 22500-05L	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-
1968-U02	2440004.47	1968 May 27 2315:01	R-36O 8K69	-	Ya22501-19L(7MO)	3.950	RVSN	TS	-	-	Test	BML	Kosmodrom9904	-
1968-S360	2440014.24	1968 Jun 6 1740	R-36 8K67	-	Ya22504-08T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1968-S392	2440040.76	1968 Jul 3 0620	R-36 8K67	-	V 22503-15T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-S397	2440054.36	1968 Jul 16 2036	R-36 8K67M	-	V 22501-07T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-S456	2440082.65	1968 Aug 14 0330	R-36 8K67M	-	U 22505-05	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-S472	2440092.06	1968 Aug 23 1330	R-36 8K67P	-	V 22500-02L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1968-S493	2440110.97	1968 Sep 11 1115	R-36 8K67P	-	V 22500-01L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1968-082	2440132.07	1968 Oct 2 1335:01	R-36O 8K69	-	V 22500-10T	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	BML
1968-S521	2440134.02	1968 Oct 4 1230	R-36 8K67P	-	V 22500-03L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1968-090	2440148.68	1968 Oct 19 0420:00	Tsiklon-2A	-	N 22500-06L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	NK0008-68	-
1968-091	2440149.67	1968 Oct 20 0402:00	Tsiklon-2A	-	N 22500-05L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	NK0008-68	-
1968-A107	2440157.59	1968 Oct 28 0210	R-36 8K67	-	V 22504-15T	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0101-11	-
1968-097	2440161.52	1968 Nov 1 0027:15	Tsiklon-2A	-	N 22500-09L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	NK0008-68	-
1968-S620	2440194.65	1968 Dec 4 0330	R-36 8K67M	-	V 22503-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1968-S652	2440209.21	1968 Dec 18 1705	R-36 8K67P	-	V 22500-04L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-U03	2440246.97	1969 Jan 25 1114:03	Tsiklon-2A	-	N 22500-12L	3.800	RVSN	OF	PI	G	Sat LEO S	AK15	AVMNLJ	Insertion motor failed
1969-S233	2440309.64	1969 Mar 29 0320	R-36 8K67	-	Yu22501-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S249	2440313.64	1969 Apr 2 0320	R-36 8K67	-	Yu22500-01T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S280	2440329.53	1969 Apr 18 0050	R-36 8K67P	-	V 22500-05L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S298	2440336.74	1969 Apr 25 0545	R-36 8K67	-	Yu22500-16L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S336	2440363.54	1969 May 22 0055	R-36 8K67	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S383	2440399.75	1969 Jun 27 0605	R-36 8K67	-	Yu22502-14T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S403	2440414.21	1969 Jul 11 1700	R-36 8K67M	-	Yu22501-10T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S441	2440437.71	1969 Aug 4 0500	R-36 8K67M	-	Yu45023-54T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-066	2440439.74	1969 Aug 6 0540:03	Tsiklon-2	-	V 22500-02L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1969-077	2440480.17	1969 Sep 15 1600:00	R-36O 8K69	-	Yu45021-50T	3.950	RVSN	OS	-	G	Sat LEO P 1	AK15	Kosmodrom9904	BML
1969-S519	2440489.62	1969 Sep 25 0255	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S487	2440503.49	1969 Oct 8 2345	R-36 8K67P	-	Yu51024-54T	0.000	RVSN	MS	-	-	OT	Kosmodrom0101-11	-	BML? Sep 9?
1969-S570	2440518.09	1969 Oct 23 1406	R-36 8K67P	-	Yu22502-03T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S573	2440519.01	1969 Oct 24 1210	R-36 8K67P	-	Ya22504-04T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S576	2440519.62	1969 Oct 25 0300	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S588	2440526.96	1969 Nov 1 1059:27	Tsiklon-2	-	Yu22500-04L	0.000	RVSN	TS	-	-	Test	RPCB	-	-
1969-S608	2440529.64	1969 Nov 4 0328	R-36 8K67P	-	U 22502-02	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S641	2440557.50	1969 Dec 2 0003	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1969-S665	2440567.56	1969 Dec 12 0124	R-36 8K67	-	Yu22525-54T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1969-S687	2440574.56	1969 Dec 19 0130	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-108	2440578.89	1969 Dec 23 0925:00	Tsiklon-2	-	V 22500-03L	3.600	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1970-S73	2440603.65	1970 Jan 17 0330	R-36 8K67M	-	N 22500-06T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S77	2440607.63	1970 Jan 21 0305	R-36 8K67M	?	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S89	2440616.59	1970 Jan 30 0205	R-36 8K67M	?	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S90	2440616.63	1970 Jan 30 0305	R-36 8K67M	-	N 22500-07T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S110	2440626.67	1970 Feb 9 0400	R-36 8K67M	-	N 22500-08T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S124	2440635.69	1970 Feb 18 0430	R-36 8K67P	-	N 22500-05T	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	BML0207/0430
1970-S127	2440636.64	1970 Feb 19 0325	R-36 8K67M	?	Yu22500-11L	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	BML0209/0325
1970-S130	2440637.69	1970 Feb 20 0430	R-36 8K67	-	Kh22511-64T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-S233	2440654.65	1970 Mar 9 0334	R-36 8K67P	-	N 22500-09T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S272	2440674.44	1970 Mar 28 2230	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S273	2440675.56	1970 Mar 30 0130	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S294	2440687.67	1970 Apr 11 0405	R-36 8K67P	?	Yu22500-02L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S296	2440689.65	1970 Apr 13 0335	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S300	2440691.65	1970 Apr 15 0335	R-36 8K67P	-	Kh22500-07L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S311	2440696.65	1970 Apr 20 0335	R-36 8K67	-	4502742-264T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-S334	2440703.66	1970 Apr 27 0350	R-36 8K67P	-	Kh22500-08L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S412	2440766.68	1970 Jun 29 0413	R-36 8K67	-	5102743-264T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-S443	2440793.03	1970 Jul 25 1239	R-36 8K67	-	4502742-259T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-056	2440796.42	1970 Jul 28 2200:28	R-36O 8K69	-	Yu45021-49T	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	-
1970-S471	2440805.77	1970 Aug 7 0630	R-36 8K67	-	6702744-264T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-S516	2440841.98	1970 Sep 12 1130	R-36 8K67	-	N 22503-05	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-076	2440855.09	1970 Sep 25 1405:00	R-36O 8K69M	-	4502741-260T	3.950	RVSN	OS	-	G	Sat LEO P 1	Kosmodrom9904	Kosmodrom9904	or 161/35?
1970-079	2440862.94	1970 Oct 3 1026:45	Tsiklon-2	-	Yu22500-07L	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1970-S559	2440868.06	1970 Oct 8 1330	R-36 8K67	-	6305761-025	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-A110	2440872.07	1970 Oct 12 1335	R-36 8K67	-	4925761-026	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom0101-11	St1BadMECO
1970-087	2440879.73	1970 Oct 20 0538:00	Tsiklon-2	-	Yu22500-06L	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1970-089	2440882.70	1970 Oct 23 0442:56	Tsiklon-2	-	Yu22500-05L	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1970-S580	2440882.59	1970 Oct 23 0210	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S585	2440889.18	1970 Oct 29 1625	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1970-091	2440889.61	1970 Oct 30 0236:51	Tsiklon-2	-	Yu22500-12L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1970-S593	2440895.60	1970 Nov 5 0220	R-36 8K67P	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1970-S639	2440902.25	1970 Nov 11 1753	R-36 8K67	-	4502745-253T	0.000	RVSN	MS	-	-	OT	Kosmodrom0101-11	-	Kos:Dec11
1970-S641	2440932.62	1970 Dec 12 0250	R-36 8K67	-	N 22506-01	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1971-A180	2440981.50	1971 Jan 30	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A196	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A197	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A198	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A199	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A200	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A201	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A202	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A203	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A204	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A205	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A206	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A207	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A208	2440951.50	1971	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S124	2440999.78	1971 Feb 17 0647	R-36 8K67	-	4501421-18OT	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1971-015	2441007.97	1971 Feb 25 1111:10	Tsiklon-2	-	Yu22500-13L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1971-025	2441042.98	1971 Apr 1 1129:59	Tsiklon-2	-	Yu22500-08L	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1971-027	2441046.10	1971 Apr 4 1427:43	Tsiklon-2	-	Yu22500-14L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1971-A209	2441071.50	1971 May?	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-A181	2441072.54	1971 May 1 0100	R-36M 15A14	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1971-A210	2441102.50	1971 Jun?	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-S345	2441129.35	1971 Jun 26 2030	R-36 8K67M	-	-	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1971-A211	2441132.50	1971 Jul?	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-068	2441172.49	1971 Aug 8 2345:00	R-36O 8K69M	-	V 22501-07	3.950	RVSN	OS	-	G	Sat LEO P 1	AK15/RAEX	Kosmodrom9904	or 161/35?
1971-A182	2441191.50	1971 Aug 28	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-S437	2441203.60	1971 Sep 9 0230	R-36 8K67M	-	Yu45023-41	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1971-A183	2441205.50	1971 Sep 11	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1971-S677	2441214.50	1971 Sep 20	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1971-S489	2441226.63	1971 Oct 2 0310	R-36 8K67M	-	-	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0101-11	-
1971-A89	2441246.77	1971 Oct 22 0625	R-36M 15A14	-	45014-01	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1971-A93	2441258.69	1971 Nov 3 0430	R-36M 15A14	-	51014-02	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1971-S579	2441287.55	1971 Dec 2 0115	R-36 8K67M	-	U 22505-07T	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1971-A106	2441288.79	1971 Dec 3 0700	R-36M 15A14	-	67014-03	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1971-106	2441289.06	1971 Dec 3 1319:22	Tsiklon-2	-	Yu22500-09L	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1971-117	2441310.98	1971 Dec 25 1129:58	Tsiklon-2	-	Yu22500-18L	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1971-A112	2441314.81	1971 Dec 29 0720	R-36M 15A14	-	45014-01	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0103-11	-
1972-A21	2441382.72	1972 Mar 6 0515	R-36M 15A14	-	51014-02	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1972-S156	2441420.23	1972 Apr 12 1725	R-36 8K67MA	-	45014-04L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1972-A40	2441436.80	1972 Apr 29 0710	R-36M 15A14	-	67014-03	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1972-S210	2441463.68	1972 May 26 0420	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1972-A63	2441477.10	1972 Jun 8 1430	R-36M 15A14	-	45023-304	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1972-S268	2441512.63	1972 Jul 14 0305	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1972-A90	2441547.50	1972 Aug 18	R-36M 15A14	-	67023-305	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1972-066	2441550.94	1972 Aug 21 1036:20	Tsiklon-2	-	45014-19L	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1972-S294	2441553.68	1972 Aug 24 0415	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1972-S306	2441575.63	1972 Sep 15 0310	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	BML: or0802
1972-A108	2441609.65	1972 Oct 19 0337	R-36M 15A14	-	45023-301	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0103-11	-
1972-A123	2441680.81	1972 Dec 29 0730	R-36M 15A14	-	67023-302	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0103-11	-
1973-S29	2441706.63	1973 Jan 24 0310	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1973-S74	2441734.75	1973 Feb 21 0600	R-36M 15A14	-	45023-30-1L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1973-S101	2441750.67	1973 Mar 9 0402	R-36 8K67MA	-	Kh22500-21L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1973-S144	2441778.83	1973 Apr 6 0800	R-36M 15A14	-	67023-30-2L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1973-A19	2441780.50	1973 Apr 8	R-36 8K67PM	-	-	0.000	RVSN	MF	U	-	Test	Kosmodrom0101-11	-	-
1973-U01	2441797.88	1973 Apr 25 0910:00	Tsiklon-2	-	Yu22500-17L	3.800	RVSN	OF	PI	G	Sat LEO S	AK15	AVMNLJ	Insertion motor failed
1973-S161	2441801.97	1973 Apr 29 1113	R-36M 15A14	-	51023-30-3L	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1973-S172	2441826.21	1973 May 23 1705	R-36 8K67MA	?	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1973-A22	2441827.09	1973 May 24 1415	R-36M 15A14	-	45023-30-4L	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0103-11	-
1973-S202	2441849.50	1973 Jun 16	R-36M 15A14	-	5L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-S227	2441867.50	1973 Jul 4	R-36M 15A14	-	6L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-A35	2441884.69	1973 Jul 21 0440	R-36 8K67PM	-	-	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1973-S251	2441893.50	1973 Jul 30	R-36M 15A14	-	8L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-S277	2441909.50	1973 Aug 15	R-36M 15A14	-	7L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	BB1,2,3 no sep
1973-S279	2441911.50	1973 Aug 17	R-36 8K67PM	-	-	0.000	RVSN	MS	-	-	Test	Kosmodrom0101-11	-	-
1973-S292	2441928.50	1973 Sep 3	R-36M 15A14	-	9L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-A47	2441937.50	1973 Sep 12	R-36M 15A14	-	10L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	St2Fail
1973-A60	2441963.67	1973 Oct 8 0410	R-36 8K67PM	-	-	0.000	RVSN	MF	U	-	Test	BML	Kosmodrom0101-11	-
1973-A61	2441967.50	1973 Oct 12	R-36M 15A14	-	11L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	Fail301s
1973-S382	2441991.50	1973 Nov 5	R-36M 15A14	-	12L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-S398	2442006.50	1973 Nov 20	R-36M 15A14	-	13L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-S442	2442033.50	1973 Dec 17	R-36M 15A14	-	15L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-S445	2442038.01	1973 Dec 21 1220	R-36 8K67PM	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1973-S448	2442042.50	1973 Dec 26	R-36M 15A14	-	14L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1973-108	2442044.35	1973 Dec 27 2019:58	Tsiklon-2	-	45023-413-01	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1974-S55	2442059.42	1974 Jan 11 2200	R-36 8K67	-	N22506-03	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1974-S67	2442067.50	1974 Jan 20	R-36M 15A14	-	18L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	RML:Feb20
1974-A07	2442091.50	1974 Feb 13	R-36M 15A14	-	16L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	St2Fail130s
1974-S111	2442099.50	1974 Feb 21	R-36M 15A14	-	20L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	AWST740225-20	-
1974-S116	2442102.50	1974 Feb 24	R-36M 15A14	-	17L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S174	2442154.18	1974 Apr 16 1625	R-36 8K67	-	U22504-08	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1974-A18	2442164.50	1974 Apr 27	R-36M 15A14	-	22L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	-
1974-029	2442182.81	1974 May 15 0730:00	Tsiklon-2	-	51049-157	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1974-032	2442184.79	1974 May 17 0653:15	Tsiklon-2	-	67049-155	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1974-S465	2442193.50	1974 May 26	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S466	2442193.50	1974 May 26	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S467	2442194.50	1974 May 27	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S468	2442194.50	1974 May 27	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S469	2442194.50	1974 May 27	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S470	2442194.50	1974 May 27	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S233	2442222.50	1974 Jun 24	R-36M 15A14	-	25L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S263	2442232.50	1974 Jul 4	R-36M 15A14	-	26L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S275	2442254.50	1974 Jul 26	R-36M 15A14	-	19L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S283	2442278.50	1974 Aug 19	R-36M 15A14	-	27L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S287	2442289.50	1974 Aug 30	R-36M 15A14	-	112T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1974-A42	2442294.32	1974 Sep 3 1940	R-36 8K67	-	N22502-07	0.000	RVSN	MF	U	-	Test	Kosmodrom0101-11	-	St2Fail
1974-S296	2442306.50	1974 Sep 16	R-36M 15A14	-	23L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S340	2442327.50	1974 Oct 7	R-36M 15A14	-	24L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S356	2442337.48	1974 Oct 16 2324	R-36 8K67	-	N22502-08	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1974-S366	2442343.50	1974 Oct 23	R-36M 15A14	-	31L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-A53	2442363.50	1974 Nov 12	R-36M 15A14	-	28L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	-
1974-S408	2442392.50	1974 Dec 11	R-36M 15A14	-	160T	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S417	2442398.50	1974 Dec 17	R-36M 15A14	-	29L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-S425	2442404.50	1974 Dec 23	R-36M 15A14	-	159T	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-103	2442405.96	1974 Dec 24 1100:00	Tsiklon-2	-	67014-21L	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1974-S427	2442406.50	1974 Dec 25	R-36M 15A14	-	30L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1974-A59	2442410.50	1974 Dec 29	R-36M 15A14	-	32L	0.000	RVSN	MF	U	-	Test	Kosmodrom0103-11	-	-
1975-S43	2442432.27	1975 Jan 19 1836	R-36 8K67	-	N22501-02	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-A04	2442434.20	1975 Jan 21 1646	R-36 8K67	-	N22502-03	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-S49	2442440.34	1975 Jan 27 2005	R-36 8K67	-	N22506-04	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-S58	2442447.50	1975 Feb 4	R-36M 15A14	-	21L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S81	2442469.50	1975 Feb 26	R-36M 15A14	-	517T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1975-S83	2442470.45	1975 Feb 26 2245	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-S85	2442471.63	1975 Feb 28 0310	R-36 8K67MA	-	-	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-S108	2442489.50	1975 Mar 18	R-36M 15A14	-	35L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	SFLT17,201	-
1975-S113	2442491.50	1975 Mar 20	R-36M 15A14	-	33L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-024	2442504.96	1975 Apr 2 1100:00	Tsiklon-2	-	67049-158	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1975-025	2442509.96	1975 Apr 7 1100:00	Tsiklon-2	-	45023-413-02	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1975-S135	2442526.50	1975 Apr 24	R-36M 15A14	-	37L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S165	2442560.50	1975 May 28	R-36M 15A14	-	38L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S191	2442567.50	1975 Jun 4	R-36M 15A14	-	34L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	SFLT17-345	-
1975-S192	2442570.50	1975 Jun 7	R-36M 15A14	-	36L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S215	2442588.62	1975 Jun 25 0250	R-36 8K67	-	N22501-01	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0101-11	-
1975-S219	2442593.50	1975 Jun 30	R-36M 15A14	-	39L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S245	2442640.50	1975 Aug 16	R-36M 15A14	-	40L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S254	2442650.50	1975 Aug 26	R-36M 15A14	-	518T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1975-S258	2442651.50	1975 Aug 27	R-36M 15A14	-	41L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	BusFail489s
1975-S285	2442684.50	1975 Sep 29	R-36M 15A14	-	42L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S291	2442686.50	1975 Oct 1	R-36M 15A14	-	43L	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1975-S307	2442710.50	1975 Oct 25	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT?	Kosmodrom0104-12	-	-
1975-102	2442714.96	1975 Oct 29 1100:00	Tsiklon-2	-	51014-420L	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1975-116	2442759.03	1975 Dec 12 1245:00	Tsiklon-2	-	51011-110	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1976-S84	2442807.50	1976 Jan 30	R-36M 15A14	-	118T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1976-S99	2442820.50	1976 Feb 12	R-36M 15A14	-	2T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1976-015	2442824.85	1976 Feb 16 0829:00	Tsiklon-2	-	45049-156	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1976-S102	2442826.50	1976 Feb 18	R-36M 15A14	-	1T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1976-034	2442882.22	1976 Apr 13 1715:37	Tsiklon-2	-	51019-154	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1976-S183	2442915.50	1976 May 17	R-36M 15A14	-	4T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	or 100N time?
1976-S199	2442938.50	1976 Jun 9	R-36M 15A14	-	3T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1976-S217	2442958.50	1976 Jun 29	R-36M 15A14	-	45012-12-118T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	-
1976-063	2442961.94	1976 Jul 2 1030:00	Tsiklon-2	-	67012-101T	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1976-071	2442981.13	1976 Jul 21 1514	Tsiklon-2	-	45012-102T	2.450	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1976-S287	2443024.50	1976 Sep 3	R-36M 15A14	-	51026-32-517T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1976-103	2443069.25	1976 Oct 17 1806:43	Tsiklon-2	-	45051-109	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1976-104	2443073.20	1976 Oct 21 1653	Tsiklon-2	-	67011-111	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1976-113	2443109.10	1976 Nov 26 1430	Tsiklon-2	-	45012-102	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1976-S353	2443134.50	1976 Dec 22	R-36M 15A14	-	51052-13-114T	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	[Dec28?]
1976-126	2443140.00	1976 Dec 27 1205	Tsiklon-2	-	45023-301T	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-S57	2443177.50	1977 Feb 3	R-36M 15A14	-	21T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1977-S115	2443219.50	1977 Mar 17	R-36M 15A14	-	5T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1977-S165	2443280.50	1977 May 17	R-36M 15A14	-	6T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	GChFail346s
1977-037	2443287.01	1977 May 23 1214:51	Tsiklon-2	-	51026-502	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-S174	2443291.50	1977 May 28	R-36M 15A14	-	27T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1977-050	2443311.81	1977 Jun 17 0723:10	Tsiklon-2	-	45046-501	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-055	2443318.94	1977 Jun 24 1030	Tsiklon-3	-	45052-102-2L	1.800	RVSN	OS	-	G	Sat LEO O	NK9713-71	NK0709-36	-
1977-077	2443379.80	1977 Aug 24 0707	Tsiklon-2	-	51052-103T	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-088	2443403.10	1977 Sep 16 1425:00	Tsiklon-2	-	51026-505	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1977-090	2443405.08	1977 Sep 18 1348:00	Tsiklon-2	-	67012-101	3.800	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1977-095	2443410.93	1977 Sep 24 1015	Tsiklon-3	-	45028-201	1.800	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1977-104	2443442.72	1977 Oct 26 0514:00	Tsiklon-2	-	67026-503	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-S275	2443447.64	1977 Oct 31 0320	R-36MU 15A18	-	45028-201(1L)	0.000	RVSN	MS	-	-	OT	BML	NK9906-19	PP
1977-S287	2443476.50	1977 Nov 29	R-36M 15A14	-	217T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1977-121	2443498.94	1977 Dec 21 1035:00	Tsiklon-2	-	67023-302T	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1977-S306	2443504.50	1977 Dec 27	R-36M 15A14	-	107T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1977-123	2443504.83	1977 Dec 27 0800	Tsiklon-3	-	51028-202	1.700	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1977-S308	2443507.50	1977 Dec 30	R-36M 15A14	-	117T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-S358	2443508.50	1978?	R-36 8K67	-	-	0.000	RVSN	MS	-	-	OT?	RML	-	Same as 76 Feb?
1978-S67	2443550.50	1978 Feb 11	R-36M 15A14	-	51035-415-20T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-S72	2443554.50	1978 Feb 15	R-36M 15A14	-	16T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-S15	2443568.58	1978 Mar 1 0200	R-36MU 15A18	-	51048-202(2L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S16	2443640.68	1978 May 12 0420	R-36MU 15A18	-	51035-501(5L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-050	2443647.51	1978 May 19 0021	Tsiklon-2	-	51053-303T	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1978-S156	2443673.50	1978 Jun 14	R-36M 15A14	-	51035-415-08T?	0.000	RVSN	MS	-	-	Test	Kosmodrom0103-11	-	-
1978-S327	2443680.50	1978 Jun 21	R-36M 15A14	-	215T	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1978-067	2443688.23	1978 Jun 28 1735	Tsiklon-3	-	51035-501(5L)	1.700	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1978-S170	2443688.50	1978 Jun 29	R-36M 15A14	-	67035-425-18T?	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-A31	2443690.04	1978 Jun 30 1300	R-36MU 15A18	-	67035-502(6L)	0.000	RVSN	MF	U	-	OT	BML	PP	XPC
1978-S17	2443716.65	1978 Jul 27 0330	R-36MU 15A18	-	45035-503(7L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S190	2443718.50	1978 Jul 29	R-36M 15A14	-	44L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-S18	2443728.08	1978 Aug 7 1400	R-36MU 15A18	-	51035-504(8L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S207	2443763.50	1978 Sep 12	R-36M 15A14	-	21T	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1978-A49	2443780.66	1978 Sep 29 0350	R-36MU 15A18	-	67048-33-204(3L)	0.000	RVSN	MF	U	-	OT	BML	PP	BusFailSep?
1978-S19	2443796.56	1978 Oct 15 0130	R-36MU 15A18	-	45035-506(10L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S20	2443798.14	1978 Oct 16 1520	R-36MU 15A18	-	67051-21-109(4L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-100	2443807.79	1978 Oct 26 0700:00	Tsiklon-3	-	67055-502	1.580	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1978-S21	2443833.07	1978 Nov 20 1340	R-36MU 15A18	-	51055-507(11L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S22	2443863.09	1978 Dec 20 1410	R-36MU 15A18	-	67055-508(12L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S256	2443862.50	1978 Dec 20	R-36M 15A14	-	45L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-S23	2443868.07	1978 Dec 25 1345	R-36MU 15A18	-	67055-505(9L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1978-S24	2443869.03	1978 Dec 26 1240	R-36MU 15A18	-	45055-509(13L)	0.000	RVSN	MS	-	-	OT	BML	PP	XPC
1979-011	2443917.04	1979 Feb 12 1300:00	Tsiklon-3	-	45055-503	1.717	RVSN	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1979-033	2443982.00	1979 Apr 18 1200	Tsiklon-2	-	45026-504	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1979-S129	2443982.50	1979 Apr 19	R-36M 15A14	-	46L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1979-036	2443988.92	1979 Apr 25 1000	Tsiklon-2	-	45052-105	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1979-S18	2443989.03	1979 Apr 25 1240	R-36MU 15A18	-	67087-401(14L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S19	2443989.60	1979 Apr 26 0220	R-36MU 15A18	-	67087-514(24T)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S20	2444023.66	1979 May 30 0350	R-36MU 15A18	-	45087-402(15L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S21	2444052.02	1979 Jun 27 1230	R-36MU 15A18	-	51087-403(16L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S22	2444164.03	1979 Oct 17 1250	R-36MU 15A18	-	67087-404(17L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S23	2444166.63	1979 Oct 20 0305	R-36MU 15A18	-	45087-524-23T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S24	2444201.12	1979 Nov 23 1500	R-36MU 15A18	-	45087-405(18L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S25	2444205.10	1979 Nov 27 1425	R-36MU 15A18	-	51067-406(19L)	0.000	RVSN	MS	-	-	OT	BML	PP	-
1979-S26	2444206.99	1979 Nov 29 1145	R-36MU 15A18	-	51067-534-23T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1980-005	2444261.79	1980 Jan 23 0700:00	Tsiklon-3	-	67067-401	1.888	RVSN	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1980-S15	2444297.64	1980 Feb 28 0320?	R-36MU 15A18	-	45033-416-44T	0.000	RVSN	MS	-	-	OT	BML	RPCA	[Or Aug28]
1980-S64	2444304.50	1980 Mar 6	R-36M 15A14	-	48L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1980-021	2444312.94	1980 Mar 14 1040	Tsiklon-2	-	51052-106	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1980-030	2444347.54	1980 Apr 18 0051	Tsiklon-2	-	45055-506	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1980-S95	2444354.50	1980 Apr 25	R-36M 15A14	-	47L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1980-034	2444358.99	1980 Apr 29 1140	Tsiklon-2	-	51052-103	4.300	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1980-S16	2444386.66	1980 May 27 0355	R-36MU 15A18	-	51033-426-43T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1980-S138	2444424.50	1980 Jul 4	R-36M 15A14	-	49L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	-
1980-S163	2444480.50	1980 Aug 29	R-36M 15A14	-	50L	0.000	RVSN	MS	-	-	OT	Kosmodrom0103-11	-	Self-guided
1980-S17	2444512.60	1980 Sep 30 0230	R-36MU 15A18	-	67083-436-43T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1980-S18	2444543.63	1980 Oct 31 0305?	R-36MU 15A18	-	51067-534-22T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1980-089	2444548.13	1980 Nov 4 1504	Tsiklon-2	-	51028-202	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1980-S264	2444570.50	1980 Nov 27	R-36M 15A14	-	504	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-F01	2444627.97	1981 Jan 23 1120	Tsiklon-3	-	45083-621	1.530	RVSN	OF	S2P	G	Sat LEO O	PL39	PL39	Failed T+4:40
1981-010	2444637.60	1981 Feb 2 0219	Tsiklon-2	-	45028-201	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1981-S236	2444645.50	1981 Feb 10	R-36M 15A14	-	512	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S237	2444646.50	1981 Feb 11	R-36M 15A14	-	511	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S33	2444653.10	1981 Feb 17 1430	R-36MU 15A18	-	51099-718-09T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-021	2444669.26	1981 Mar 5 1809	Tsiklon-2	-	67052-104	4.300	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1981-S238	2444668.50	1981 Mar 5	R-36M 15A14	-	507	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S239	2444668.50	1981 Mar 5	R-36M 15A14	-	502	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S240	2444669.50	1981 Mar 6	R-36M 15A14	-	501	0.000	RVSN	MF	U	-	OT	RPCA	-	St2Fail
1981-024	2444678.20	1981 Mar 14 1655	Tsiklon-2	-	45048-204	1.400	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1981-028	2444684.49	1981 Mar 20 2345	Tsiklon-2	-	45035-503	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1981-S243	2444695.50	1981 Apr 1	R-36M 15A14	-	51026-32-503	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-037	2444715.66	1981 Apr 21 0345	Tsiklon-2	-	51035-504	4.300	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1981-S244	2444722.50	1981 Apr 28	R-36M 15A14	-	509	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S245	2444723.50	1981 Apr 29	R-36M 15A14	-	506	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S34	2444753.53	1981 May 29 0050	R-36MU 15A18	-	67099-728-08T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S35	2444803.54	1981 Jul 18 0100	R-36MU 15A18	-	67083-436-42T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-072	2444820.85	1981 Aug 4 0828	Tsiklon-2	-	67028-203	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1981-S37	2444834.50	1981 Aug 18	R-36MU 15A18	-	211	0.000	RVSN	MS	-	-	Training	russianspaceweb.com	-	-
1981-081	2444841.19	1981 Aug 24 1637	Tsiklon-2	-	51048-205	4.300	RVSN	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1981-082	2444841.40	1981 Aug 24 2140	Tsiklon-3	-	51099-801	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1981-089	2444862.35	1981 Sep 14 2031	Tsiklon-2	-	67055-505	3.300	RVSN	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1981-094	2444869.05	1981 Sep 21 1310	Tsiklon-3	-	67099-802	1.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1981-098	2444877.83	1981 Sep 30 0800	Tsiklon-3	-	51099-801	1.588	RVSN	OS	-	G	Sat LEO O	PL39	PL39	-
1981-S36	2444879.57	1981 Oct 2 0145	R-36MU 15A18	-	45029-739-07T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S216	2444936.24	1981 Nov 27 1745	R-36MU 15A18	-	51029-748-06T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-117	2444941.99	1981 Dec 3 1147	Tsiklon-3	-	45029-803	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1982-010	2445011.55	1982 Feb 11 0111	Tsiklon-2	-	51035-501	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1982-S28	2445045.30	1982 Mar 16 1905	R-36MU 15A18	-	51074-317-10T	0.000	RVSN	MF	U	-	OT	BML	XPC	-
1982-025	2445053.91	1982 Mar 25 0950:00	Tsiklon-3	-	67029-805	1.500	UNKS	OS	-	G	Sat LEO O	TLE/AVM	-	-
1982-038	2445088.91	1982 Apr 29 0955	Tsiklon-2	-	67035-502	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1982-043	2445104.32	1982 May 14 1939	Tsiklon-2	-	51055-507	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1982-052	2445122.08	1982 Jun 1 1358	Tsiklon-2	-	51083-622	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1982-S29	2445124.31	1982 Jun 3 1920	R-36MU 15A18	-	51074-317-03T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-059	2445131.23	1982 Jun 10 1737	Tsiklon-3	-	51029-804	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1982-060	2445138.96	1982 Jun 18 1104	Tsiklon-2	-	45083-624	1.400	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	-	-
1982-S256	2445149.05	1982 Jun 28 1305	R-36MU 15A18	-	67074-327-08T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1982-S138	2445166.31	1982 Jul 15 1925	R-36M 15A14	-	45046-315-08	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1982-S30	2445177.50	1982 Jul 27	R-36MU 15A18	-	67035-425-08T	0.000	RVSN	MS	-	-	OT	russianspaceweb.com	-	-
1982-S156	2445194.30	1982 Aug 12 1905	R-36M 15A14	-	45046-315-05	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1982-084	2445211.92	1982 Aug 30 1006	Tsiklon-2	-	45033-621	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	-	-
1982-088	2445217.24	1982 Sep 4 1750	Tsiklon-2	-	67083-623	3.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-092	2445228.70	1982 Sep 16 0455	Tsiklon-3	-	45029-806	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-096	2445236.89	1982 Sep 24 0915	Tsiklon-3	-	45029-803	1.547	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1982-099	2445244.50	1982 Oct 2 0001	Tsiklon-2	-	51067-403	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1982-S200	2445327.06	1982 Dec 23 1320	R-36M 15A14	-	45046-315-15	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom0103-11	-
1983-S21	2445374.01	1983 Feb 8 1210	R-36MU 15A18	-	45042-613-08T	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1983-S60	2445383.32	1983 Feb 17 1940	R-36M 15A14	-	45046-315-03	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	-
1983-S22	2445411.03	1983 Mar 17 1238	R-36MU 15A18	-	67014-327-07	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1983-037	2445448.10	1983 Apr 23 1430	Tsiklon-3	-	51029-807	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1983-044	2445461.94	1983 May 7 1030	Tsiklon-2	-	45099-806	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1983-061	2445508.50	1983 Jun 22 2358	Tsiklon-3	-	45074-703	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1983-S23	2445528.93	1983 Jul 13 1025	R-36MU 15A18	-	45029-738-05T	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1983-S125	2445530.06	1983 Jul 14 1320	R-36M 15A14	-	51026-325-02	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	-
1983-S273	2445534.50	1983 Jul 19	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1983-S84	2445576.98	1983 Aug 30 1135	R-36M 15A14	-	45046-315-04	0.000	RVSN	MS	-	-	OT	BML	RPCA	Kosmodrom0103-11
1983-099	2445605.83	1983 Sep 28 0759	Tsiklon-3	-	51042-302-12L	1.900	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-S187	2445618.70	1983 Oct 11 0450	R-36M 15A14	-	45046-315-10	0.000	RVSN	MS	-	-	OT	BML	Kosmodrom0103-11	-
1983-S24	2445633.70	1983 Oct 26 0450	R-36MU 15A18	-	45029-738-03	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1983-110	2445636.85	1983 Oct 29 0830	Tsiklon-2	-	45083-627	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1983-115	2445663.02	1983 Nov 24 1233	Tsiklon-3	-	51074-701	1.550	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1983-122	2445684.02	1983 Dec 15 1225	Tsiklon-3	-	67014-708	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-013	2445738.89	1984 Feb 8 0923	Tsiklon-3	-	45014-706	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-027	2445775.21	1984 Mar 15 1705	Tsiklon-3	-	67014-705	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-S211	2445818.27	1984 Apr 27 1835	R-36MU 15A18	-	51086-111-5T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1984-053	2445851.28	1984 May 30 1846	Tsiklon-2	-	45067-402	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1984-069	2445880.51	1984 Jun 29 0021	Tsiklon-2	-	67067-401	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1984-072	2445886.65	1984 Jul 5 0335:00	Tsiklon-3	-	67074-702	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-083	2445920.45	1984 Aug 7 2250:34	Tsiklon-2	-	51099-807	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1984-084	2445921.01	1984 Aug 8 1208	Tsiklon-3	-	45042-301	1.554	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1984-S30	2445921.50	1984 Aug 9	R-36M 15A14	-	-	0.000	RVSN	MS	-	-	OT	russianspaceweb.com	-	BRK4, PU1
1984-105	2445971.75	1984 Sep 28 0600:00	Tsiklon-3	-	51032-311-16L	1.922	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1984-111	2445992.24	1984 Oct 18 1746	Tsiklon-3	-	51074-701	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-112	2446005.02	1984 Oct 31 1229	Tsiklon-2	-	51083-625	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1984-S129	2446018.47	1984 Nov 13 2322	R-36MU 15A18	-	51076-811-14T	0.000	RVSN	MS	-	-	OT	BML	RPCA	Zaloga
1984-120	2446032.10	1984 Nov 27 1422:00	Tsiklon-3	-	51014-707	1.750	UNKS	OF40	S3R	-	Sat LEO O	AK15	NK9402-34	Restart failed
1985-003	2446081.12	1985 Jan 15 1450:59	Tsiklon-3	-	67042-303	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-008	2446089.33	1985 Jan 23 1958	Tsiklon-2	-	67083-626	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1985-009	2446090.20	1985 Jan 24 1645	Tsiklon-3	-	51014-710	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-013	2446103.41	1985 Feb 6 2145:00	Tsiklon-3	-	51014-704	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-020	2446130.15	1985 Mar 5 1539	Tsiklon-3	-	67029-808	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-030	2446174.40	1985 Apr 18 2140:43	Tsiklon-2	-	51099-801	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1985-047	2446230.94	1985 Jun 14 1036	Tsiklon-3	-	45032-307	1.556	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1985-058	2446255.49	1985 Jul 8 2340	Tsiklon-3	-	45042-301	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-064	2446278.73	1985 Aug 1 0536	Tsiklon-2	-	51099-804	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1985-069	2446285.99	1985 Aug 8 1149	Tsiklon-3	-	67032-306	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-075	2446301.44	1985 Aug 23 2233	Tsiklon-2	-	45099-803	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1985-082	2446327.56	1985 Sep 19 0132	Tsiklon-2	-	67099-802	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1985-S270	2446328.50	1985 Sep 20	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-094	2446348.40	1985 Oct 9 2135	Tsiklon-3	-	51076-111	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-100	2446362.60	1985 Oct 24 0230:00	Tsiklon-3	-	45061-504	1.750	UNKS	OS	-	G	Sat LEO O	NK9402-34	XPC	-
1985-108	2446392.43	1985 Nov 22 2220:00	Tsiklon-3	-	45032-310	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-113	2446412.16	1985 Dec 12 1551	Tsiklon-3	-	51042-302	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-119	2446425.58	1985 Dec 26 0150:00	Tsiklon-3	-	51032-305	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-S186	2446430.50	1986	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1986-006	2446447.81	1986 Jan 17 0721:09	Tsiklon-3	-	51032-308	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-S12	2446467.04	1986 Feb 5 1300	R-36MU 15A18	-	45087-524-18	0.000	RVSN	MS	-	-	OT	BML	XPC	RPCA
1986-015	2446472.79	1986 Feb 11 0656:00	Tsiklon-3	-	45014-709	1.557	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1986-018	2446481.46	1986 Feb 19 2304:00	Tsiklon-3	-	45041-507	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-021	2446488.57	1986 Feb 27 0144	Tsiklon-2	-	45086-101	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1986-024	2446510.92	1986 Mar 21 1005	Tsiklon-2	-	45029-812	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1986-A06	2446512.83	1986 Mar 23 0750	R-36M2 15A18M	-	51041-502(1L)	0.000	RVSN	MF	U	-	OT	BML	Kosmodrom-1	XPC
1986-025	2446515.31	1986 Mar 25 1926	Tsiklon-2	-	67029-811	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1986-034	2446565.68	1986 May 15 0426:00	Tsiklon-3	-	45032-304	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-039	2446577.90	1986 May 27 0930:00	Tsiklon-3	-	67076-109	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-046	2446593.70	1986 Jun 12 0443:00	Tsiklon-3	-	51086-102	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-055	2446640.38	1986 Jul 28 2107:59	Tsiklon-3	-	51061-502	1.931	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1986-059	2446646.71	1986 Aug 4 0508	Tsiklon-2	-	67099-805	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1986-062	2446663.04	1986 Aug 20 1258	Tsiklon-2	-	67099-808	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1986-A08	2446663.65	1986 Aug 21 0340	R-36M2 15A18M	-	67041-503(2L)	0.000	RVSN	MF	S2	-	OT	BML	XPC	-
1986-074	2446704.27	1986 Sep 30 1834:00	Tsiklon-3	-	67032-309	1.750	UNKS	OS	-	G	Sat LEO O	RAEX	XPC	-
1986-F06	2446718.73	1986 Oct 15 0524:08	Tsiklon-3	-	67061-503(19S)	1.350	UNKS	OF	S1	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1986-A12	2446761.62	1986 Nov 27 0250	R-36M2 15A18M	-	51038-401(3L)	0.000	RVSN	MF	U	-	OT	BML	XPC	Fail305s
1986-094	2446766.79	1986 Dec 2 0700:00	Tsiklon-3	-	45086-104	1.552	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1986-097	2446774.81	1986 Dec 10 0730:00	Tsiklon-3	-	67086-103	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-101	2446782.83	1986 Dec 18 0800:00	Tsiklon-3	-	45061-501	1.042	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-001	2446800.56	1987 Jan 5 0120:00	Tsiklon-3	-	51086-105	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-003	2446809.88	1987 Jan 14 0905:00	Tsiklon-3	-	45086-101	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-A01	2446812.05	1987 Jan 16 1315	R-36MU 15A18	-	51026-325-09	0.000	RVSN	MF	U	-	OT	BML	XPC	-
1987-011	2446828.48	1987 Feb 1 2330	Tsiklon-2	-	51076-105	3.550	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1987-020	2446846.70	1987 Feb 20 0443:00	Tsiklon-3	-	67076-106	1.545	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1987-024	2446858.13	1987 Mar 3 1503:00	Tsiklon-3	-	51076-108	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-026	2446868.05	1987 Mar 13 1311:56	Tsiklon-3	-	67058-408	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S30	2446879.63	1987 Mar 25 0310	R-36M2 15A18M	-	67038-402(4L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-031	2446893.66	1987 Apr 8 0351:21	Tsiklon-2	-	45029-809	3.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S28	2446901.00	1987 Apr 15 1200	R-36MU 15A18	-	51086-811-03	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-038	2446912.50	1987 Apr 27 0000:00	Tsiklon-3	-	51058-407	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S31	2446944.03	1987 May 28 1245	R-36M2 15A18M	-	45038-403(5L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-S32	2446949.57	1987 Jun 3 0145	R-36M2 15A18M	-	51058-405(6L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-A10	2446955.60	1987 Jun 9 0220	R-36M2 15A18M	-	51058-404(7L)	0.000	RVSN	MF	S2	-	OT	BML	XPC	Fail282s
1987-052	2446965.40	1987 Jun 18 2133	Tsiklon-2	-	51029-810	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1987-055	2446978.32	1987 Jul 1 1935:00	Tsiklon-3	-	51061-505	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S29	2446985.08	1987 Jul 8 1350	R-36MU 15A18	-	51086-811-02	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-060	2446987.15	1987 Jul 10 1535:00	Tsiklon-2	-	51029-813	3.550	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1987-S38	2446992.50	1987 Jul 16	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1987-062	2446992.68	1987 Jul 16 0425:00	Tsiklon-3	-	67038-402	1.936	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1987-S229	2446999.50	1987 Jul 23	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1987-068	2447025.60	1987 Aug 18 0227:00	Tsiklon-3	-	51041-508	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S33	2447042.55	1987 Sep 4 0105	R-36M2 15A18M	-	45058-406(8L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-074	2447046.49	1987 Sep 7 2350:09	Tsiklon-3	-	67095-603	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S34	2447049.23	1987 Sep 10 1735	R-36M2 15A18M	-	51058-407(9L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-S35	2447068.50	1987 Sep 30 0005	R-36M2 15A18M	-	45095-601(10L)	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1987-A15	2447069.63	1987 Oct 1 0305	R-36M2 15A18M	-	67058-408(11L)	0.000	RVSN	MF	U	-	OT	BML	RPCA	XPC

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-086	2447079.41	1987 Oct 10 2148:30	Tsiklon-2	-	67029-814	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1987-S148	2447083.06	1987 Oct 14 1320	R-36MU 15A18	-	51074-317-07	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-088	2447088.88	1987 Oct 20 0909:00	Tsiklon-3	-	51038-401	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-S36	2447111.76	1987 Nov 12 0610	R-36M2 15A18M	-	51095-602(12L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-S37	2447124.76	1987 Nov 25 0613	R-36M2 15A18M	-	67095-603(13L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1987-101	2447141.74	1987 Dec 12 0540:00	Tsiklon-2	-	45041-504	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1987-S204	2447154.71	1987 Dec 25 0458	R-36M2 15A18M	-	45095-604(14L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1988-001	2447166.82	1988 Jan 6 0741:00	Tsiklon-3	-	45076-110	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-002	2447175.66	1988 Jan 15 0349:21	Tsiklon-3	-	67038-405(25S)	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-005	2447190.96	1988 Jan 30 1059:59	Tsiklon-3	-	51038-404	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-S36	2447200.57	1988 Feb 9 0145	R-36M2 15A18M	-	45065-607(16L)	0.000	RVSN	MF	U	-	OT	BML	RPCA	XPC
1988-019	2447235.10	1988 Mar 14 1421:00	Tsiklon-2	-	67074-702	4.300	UNKS	OS	-	G	Sat LEO S	AK15/RAEX	XPC	-
1988-020	2447236.28	1988 Mar 15 1850:00	Tsiklon-3	-	51095-602	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-A04	2447239.06	1988 Mar 18 1330	R-36M2 15A18M	-	67065-606(15L)	0.000	RVSN	MF	U	-	OT	BML	RPCA	ABP fail
1988-S37	2447272.12	1988 Apr 20 1500	R-36M2 15A18M	-	51065-608(17L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-S33	2447287.13	1988 May 5 1510	R-36MU 15A18	-	51029-748-04	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-045	2447309.62	1988 May 28 0249:00	Tsiklon-2	-	45074-703	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1988-046	2447311.83	1988 May 30 0800:00	Tsiklon-3	-	45095-601	1.548	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1988-050	2447326.64	1988 Jun 14 0318:00	Tsiklon-3	-	45058-406	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-056	2447347.91	1988 Jul 5 0945:00	Tsiklon-3	-	45065-201(23L)	1.944	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1988-S181	2447360.50	1988 Jul 18	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1988-064	2447368.71	1988 Jul 26 0501:00	Tsiklon-3	-	67061-506(24L)	2.150	UNKS	OS	-	G	Sat LEO O	NK9402-34	XPC	-
1988-S34	2447413.99	1988 Sep 9 1150	R-36MU 15A18	-	51074-317-01	0.000	RVSN	MS	-	-	OT	BML	RPCA	FailGOSep
1988-093	2447445.83	1988 Oct 11 0802:00	Tsiklon-3	-	45038-403	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-101	2447483.51	1988 Nov 18 0012:28	Tsiklon-2	-	45029-815	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1988-S38	2447483.70	1988 Nov 18 0455	R-36M2 15A18M	-	45065-216-01(18L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-S39	2447487.77	1988 Nov 22 0630	R-36M2 15A18M	-	45079-512-05	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-S40	2447509.69	1988 Dec 14 0440	R-36M2 15A18M	-	67019-203	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-S182	2447514.50	1988 Dec 19	R-36MU 15A18	-	-	0.000	RVSN	MS	-	-	OT	RPCA	XPC	-
1988-S35	2447517.92	1988 Dec 22 1005	R-36MU 15A18	-	45042-613-06	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1988-113	2447518.81	1988 Dec 23 0720:00	Tsiklon-3	-	67019-206(26L)	1.630	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-S21	2447544.68	1989 Jan 18 0415	R-36M2 15A18M	-	45019-201(20L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	XPC
1989-009	2447568.13	1989 Feb 10 1513:56	Tsiklon-3	-	67065-606	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-018	2447585.67	1989 Feb 28 0405:00	Tsiklon-3	-	45065-607	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-S22	2447627.68	1989 Apr 11 0426	R-36M2 15A18M	-	67019-206	0.000	RVSN	MS	-	-	Test	BML	RPCA	XPC
1989-F01	2447686.92	1989 Jun 9 1010:00	Tsiklon-3	-	45019-210	1.896	UNKS	OF	S3R	G	Sat LEO O	NK9422-49	PL36	S3 restart
1989-058	2447731.50	1989 Jul 24 0000:59	Tsiklon-2	-	67032-306	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1989-S23	2447740.07	1989 Aug 1 1340	R-36M2 15A18M	-	67057-319-06T	0.000	RVSN	MS	-	-	Test	BML	RPCA	XPC
1989-S24	2447750.42	1989 Aug 11 2159	R-36M2 15A18M	-	51057-902(23L)	0.000	RVSN	MS	-	-	Test	BML	RPCA	XPC
1989-068	2447766.51	1989 Aug 28 0014:00	Tsiklon-3	-	51065-608	1.548	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1989-S25	2447771.73	1989 Sep 2 0530	R-36M2 15A18M	-	51019-202	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1989-074	2447783.91	1989 Sep 14 0949:06	Tsiklon-3	-	51079-202	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-079	2447797.18	1989 Sep 27 1620:00	Tsiklon-2	-	45032-307	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1989-080	2447797.50	1989 Sep 28 0004:59	Tsiklon-3	-	67057-904	1.465	UNKS	OS	-	G	Sat LEO O	NK9521-43	XPC	-
1989-086	2447824.40	1989 Oct 24 2135:00	Tsiklon-3	-	67057-901	2.250	UNKS	OS	-	G	Sat LEO O	NK9402-34	XPC	-
1989-092	2447855.47	1989 Nov 24 2322:00	Tsiklon-2	-	51086-102	3.300	UNKS	OS80	S2U	-	Sat LEO P	AK15/RAEX	XPC	Underburn
1989-S26	2447886.69	1989 Dec 26 0440	R-36M2 15A18M	-	67057-319-10T	0.000	RVSN	MS	-	-	OT	BML	RPCA	XPC
1989-100	2447887.50	1989 Dec 27 0000:00	Tsiklon-3	-	45076-107	1.630	UNKS	OS	-	G	Sat LEO O	NK9718-57	XPC	-
1990-010	2447921.97	1990 Jan 30 1120:00	Tsiklon-3	-	45095-604	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-018	2447950.54	1990 Feb 28 0055:00	Tsiklon-3	-	45027-909	1.906	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1990-022	2447965.14	1990 Mar 14 1527:00	Tsiklon-2	-	67076-103	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1990-S95	2448029.00	1990 May 17 1205	R-36MU 15A18	-	45042-613-07	0.000	RVSN	MS	-	-	OT	BML	RPC	XPC
1990-S101	2448054.65	1990 Jun 12 0330	R-36M2 15A18M	-	51013-713-03T	0.000	RVSN	MS	-	-	OT	RPC	XPC	-
1990-057	2448070.44	1990 Jun 27 2230:00	Tsiklon-3	-	51095-605/13L	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-066	2448102.50	1990 Jul 30 0006:00	Tsiklon-3	-	45079-204	1.556	UNKS	OS	-	G	Sat LEO O	PL39	PL39	-
1990-070	2448111.68	1990 Aug 8 0415:07	Tsiklon-3	-	67079-203	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-S121	2448120.92	1990 Aug 17 1000	R-36MU 15A18	-	51086-811-05	0.000	RVSN	MS	-	-	Test	RPC	XPC	-
1990-075	2448127.18	1990 Aug 23 1617:00	Tsiklon-2	-	45076-104	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1990-S125	2448132.71	1990 Aug 29 0500	R-36M2 15A18M	-	45057-903(34L)	0.000	RVSN	MS	-	-	OT	RPC	XPC	B6 long
1990-086	2448162.81	1990 Sep 28 0730:00	Tsiklon-3	-	51065-611	1.500	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-096	2448209.77	1990 Nov 14 0633:40	Tsiklon-2	-	67061-503	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1990-104	2448224.19	1990 Nov 28 1633:58	Tsiklon-3	-	45013-302(28L)	1.635	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-108	2448229.53	1990 Dec 4 0048:31	Tsiklon-2	-	45061-501	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1990-S169	2448236.82	1990 Dec 11 0740	R-36M2 15A18M	-	51013-713-10T	0.000	RVSN	MS	-	-	OT	RPC	XPC	-
1990-114	2448247.81	1990 Dec 22 0728:53	Tsiklon-3	-	67065-609	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-005	2448274.98	1991 Jan 18 1134:40	Tsiklon-2	-	51061-502	3.300	UNKS	OS	-	G	Sat LEO P	AK15/RAEX	XPC	-
1991-030	2448370.57	1991 Apr 24 0137:00	Tsiklon-3	-	67027-907	2.250	UNKS	OS	-	G	Sat LEO O	NK9402-34	XPC	-
1991-033	2448393.40	1991 May 16 2140:54	Tsiklon-3	-	51019-205	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-S111	2448404.96	1991 May 28 1105	R-36M2 15A18M	-	67027-319-14(36L)	0.000	RVSN	MS	-	-	OT	RPC	XPC	-
1991-039	2448411.84	1991 Jun 4 0810:00	Tsiklon-3	-	45033-305	1.907	UNKS	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1991-042	2448421.15	1991 Jun 13 1541:00	Tsiklon-3	-	45019-207	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-056	2448483.89	1991 Aug 15 0915:00	Tsiklon-3	-	67082-803	2.150	UNKS	OS	-	G	Sat LEO O	NK91-2-4	XPC	-
1991-S147	2448511.99	1991 Sep 12 1145	R-36M2 15A18M	-	67027-904(35L)	0.000	RVSN	MS	-	-	OT	RPC	XPC	BML1145
1991-S150	2448516.89	1991 Sep 17 0920	R-36MU 15A18	-	51074-317-08	0.000	RVSN	MS	-	-	Test	RPC	XPC	-
1991-068	2448527.80	1991 Sep 28 0705:55	Tsiklon-3	-	51057-902	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-S162	2448539.92	1991 Oct 10 1005	R-36M2 15A18M	-	45082-418-05T	0.000	RVSN	MS	-	-	Test	RPC	XPC	BML1005
1991-S175	2448557.76	1991 Oct 28 0610	R-36M2 15A18M	-	45092-418-10T	0.000	RVSN	MS	-	-	OT	RPC	XPC	?Nov28
1991-077	2448573.34	1991 Nov 12 2009:33	Tsiklon-3	-	45057-903	1.350	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-S172	2448580.80	1991 Nov 20 0705	R-36MU 15A18	-	67048-332-15	0.000	RVSN	MS	-	-	OT	RML	XPC	BML0705
1991-086	2448608.66	1991 Dec 18 0354:00	Tsiklon-3	-	51033-304	1.318	UNKS	OS	-	G	Sat LEO O	NK9521-43	XPC	-
1992-042	2448817.24	1992 Jul 13 1741:40	Tsiklon-3	-	51019-208	1.350	UNKSR	OS	-	G	Sat LEO O	JCM	XPC	-
1992-068	2448916.04	1992 Oct 20 1258:12	Tsiklon-3	-	67019-209	1.350	VKSR	OS	-	G	Sat LEO O	JCM	XPC	-
1992-080	2448950.67	1992 Nov 24 0409:59	Tsiklon-3	-	51027-905	1.750	VKSR	OS	-	G	Sat LEO O	JCM	XPC	-
1992-092	2448979.02	1992 Dec 22 1236:00	Tsiklon-3	-	67027-910	1.536	VKSR	OS	-	G	Sat LEO O	PL39	PL39	-
1992-094	2448982.34	1992 Dec 25 2007:59	Tsiklon-3	-	45027-906	1.750	VKSR	OS	-	G	Sat LEO O	JCM	XPC	-
1993-018	2449077.00	1993 Mar 30 1200:00	Tsiklon-2	-	67042-303	3.300	VKSR	OS	-	G	Sat LEO P	AVMP	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-024	2449093.83	1993 Apr 16 0749:00	Tsiklon-3	-	51027-908	1.750	VKSR	OS	-	G	Sat LEO O	AVMP	XPC	-
1993-029	2449105.65	1993 Apr 28 0339:20	Tsiklon-2	-	45042-304	3.400	VKSR	OS	-	G	Sat LEO P	NK9317-20	XPC	-
1993-030	2449119.12	1993 May 11 1456:01	Tsiklon-3	-	51013-301	1.350	VKSR	OS	-	G	Sat LEO O	AVMP	XPC	-
1993-038	2449162.68	1993 Jun 24 0412:41	Tsiklon-3	-	45082-801	1.350	VKSR	OS	-	G	Sat LEO O	AVMP	XPC	-
1993-044	2449175.80	1993 Jul 7 0715:00	Tsiklon-2	-	51032-305	3.400	VKSR	OS	-	G	Sat LEO P	AVMP	XPC	-
1993-055	2449230.69	1993 Aug 31 0440:00	Tsiklon-3	-	45092-804	1.542	VKSR	OS	-	G	Sat LEO O	AVMP	XPC	-
1993-060	2449247.53	1993 Sep 17 0043:10	Tsiklon-2	-	67057-901	3.400	VKSR	OS	-	G	Sat LEO P	AVMP	XPC	-
1994-003	2449377.52	1994 Jan 25 0025:00	Tsiklon-3	-	67051-701	2.190	VKSR	OS	-	G	Sat LEO O	NK9402-34	XPC	-
1994-011	2449395.87	1994 Feb 12 0854:13	Tsiklon-3	-	67013-303	1.350	VKSR	OS	-	G	Sat LEO O	NK9501-24	XPC	-
1994-014	2449413.64	1994 Mar 2 0325:00	Tsiklon-3	-	51024-504	2.298	VKSR	OS	-	G	Sat LEO O	NK9521-43	XPC	-
1994-F02	2449497.93	1994 May 25 1015:00	Tsiklon-3	-	51082-802	1.750	VKSR	OF	S2S	G	Sat LEO O	NK9501-24	PL37	Verner ox. depleted
1994-066	2449637.10	1994 Oct 11 1430:00	Tsiklon-3	-	67033-306	1.904	VKSR	OS	-	G	Sat LEO O	NK9422-49	PL36	-
1994-072	2449658.54	1994 Nov 2 0104:00	Tsiklon-2	-	51013-301	3.400	VKSR	OS	-	G	Sat LEO P	NK9422-45	XPC	-
1994-078	2449685.62	1994 Nov 29 0254:00	Tsiklon-3	-	51092-805	1.522	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMN	-
1994-086	2449713.44	1994 Dec 26 2226:58	Tsiklon-3	-	67034-502	1.350	VKSR	OS	-	G	Sat LEO O	NK9501-24	AVMN	-
1995-028	2449876.70	1995 Jun 8 0443:00	Tsiklon-2	-	51041-505	3.400	VKSR	OS	-	G	Sat LEO P	AVMN	XPC	-
1995-046	2449960.78	1995 Aug 31 0649:59	Tsiklon-3	-	45025-801	2.050	VKSR	OS	-	G	Sat LEO O	NK9518-36	XPC	-
1995-071	2450071.54	1995 Dec 20 0052:14	Tsiklon-2	-	67041-506	3.400	VKSR	OS	-	G	Sat LEO P	AVMN	XPC	-
1996-009	2450132.54	1996 Feb 19 0058:25	Tsiklon-3	-	51034-501	1.350	VKSR	OS	-	G	Sat LEO O	K9701-40	PC	-
1996-069	2450429.00	1996 Dec 11 1200:00	Tsiklon-2	-	45013-302	3.400	VKSR	OS	-	G	Sat LEO P	NK96-25-41	XPC	-
1997-006	2450493.66	1997 Feb 14 0347:22	Tsiklon-3	-	51091-703	1.350	VKSR	OS	-	G	Sat LEO O	NK9704-54	XPC	-
1997-S33	2450556.02	1997 Apr 17 1230:19	R-36MU 15A18	-	670-4833-207	0.000	RVSNR	MS	-	-	OT	BML	www.nti.org	-
1997-079	2450791.80	1997 Dec 9 0717:20	Tsiklon-2	-	670-33- 303	3.400	RVSNR	OS	-	G	Sat LEO P	Wire	XPC	-
1998-S35	2450918.99	1998 Apr 15 1150:01	R-36MU 15A18	-	510-3541-504	0.000	RVSNR	MS	-	-	Test	RML	Kosmodrom-1	XPC
1998-036	2450980.46	1998 Jun 15 2258:05	Tsiklon-3	-	450-91- 702	1.350	RVSNR	OS	-	G	Sat LEO O	NK9814-08	XPC	-
1999-021	2451289.71	1999 Apr 21 0459:12	Dnepr	-	670-3542-509	0.375	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	NK9906-16	NK9906-16	-
1999-072	2451538.83	1999 Dec 26 0800:00	Tsiklon-2	-	450-82- 801	3.400	RVSNR	OS	-	G	Sat LEO P	NK0002-42	NK0002-42	-
2000-057	2451813.92	2000 Sep 26 1005:00	Dnepr	-	450-8752-403	0.188	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	NK0011-40	-	-
2000-F03	2451905.91	2000 Dec 27 0956:31	Tsiklon-3	-	450-34- 503	1.350	RVSNR	OF	S3P	G	Sat LEO O	NK0102-35	-	Fail T+6:07
2001-032	2452121.83	2001 Jul 31 0800:00	Tsiklon-3	-	510-25- 802	2.260	KVR	OS	-	G	Sat LEO O	NK0109-45	-	-
2001-057	2452264.67	2001 Dec 21 0400:00	Tsiklon-2	-	510-82- 802	3.150	KVR	OS	-	G	Sat LEO P	NK0202-41	-	-
2001-058	2452271.64	2001 Dec 28 0324:24	Tsiklon-3	-	670-21- 803	1.350	KVR	OS	-	G	Sat LEO O	NK0202-45	rosaviakosmos.ru	-
2002-058	2452629.21	2002 Dec 20 1700:00	Dnepr	-	510-3541-505	0.563	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	NK0302-34	tsenki.com	-
2004-020	2453153.75	2004 May 28 0600:00	Tsiklon-2	-	670-92- 803	3.400	KVR	OS	-	G	Sat LEO P	NK0407-30	-	-
2004-025	2453185.77	2004 Jun 29 0630:06	Dnepr	-	450-3341-631	0.285	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK0408-33	-	-
2004-S72	2453361.85	2004 Dec 22 0830:20	R-36M2 15A18M	-	450-7951-210	0.000	RVSNR	MS	-	-	Test	NK0502-11	-	-
2004-052	2453363.97	2004 Dec 24 1120:00	Tsiklon-3	-	450-43- 701 40L	2.289	KVR	OF40	S3U	G	Sat LEO O	NK0502-21	-	Underburn
2005-031	2453606.38	2005 Aug 23 2109:59	Dnepr	-	510-3342-621	0.700	RVSNR	OS	-	G	Sat SSO O 1	NK0510-13	-	-
2006-026	2453911.67	2006 Jun 25 0400	Tsiklon-2	-	450-92- 804	3.500	KVR	OS	-	G	Sat LEO P	NK0608-13	-	-
2006-029	2453929.12	2006 Jul 12 1453:36	Dnepr	-	450-2973-806	1.410	RVSNR	OS	-	G	Sat LEO O 1	NK0609-39	-	-
2006-F03	2453943.32	2006 Jul 26 1943:05	Dnepr	-	450-2973-804	0.921	KTRAS/RVSNR	OF	S2I	CO	Sat SSO O 1	NK0609-44	-	Fail T+1:26
2006-S77	2454090.81	2006 Dec 21 0720	R-36M2 15A18M	-	450-7951-213	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2007-012	2454207.78	2007 Apr 17 0646:39	Dnepr	-	510-9971-806	1.370	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK0706-32	-	-
2007-026	2454266.59	2007 Jun 15 0214	Dnepr	-	670-8343-630	1.396	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK0708-29	-	-
2007-028	2454280.13	2007 Jun 28 1502:20	Dnepr	-	670-8343-634	1.410	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	NK0708-23	-	-
2008-040	2454707.80	2008 Aug 29 0715:58	Dnepr	-	670-8343-638	1.010	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK0810-33	-	-
2008-049	2454740.78	2008 Oct 1 0637:21	Dnepr	-	670-8343-637	0.800	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK0812-32	-	-
2009-003	2454862.06	2009 Jan 30 1330:00	Tsiklon-3	-	450-84- 701	2.250	KVR	OS	-	G	Sat LEO O	Wire	-	-
2009-041	2455042.28	2009 Jul 29 1846:29	Dnepr	-	510-7681-113	0.473	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	nasaspaceflight.com	NK0909-38	-
2009-S71	2455189.77	2009 Dec 24 0630:03	R-36M2 15A18M	-	450-7951-202	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2010-013	2455295.08	2010 Apr 8 1357:05	Dnepr	-	450-4261-304	0.770	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	nasaspaceflight.com	NK1006-38	-
2010-028	2455363.11	2010 Jun 15 1442:21	Dnepr	-	450-3261-316	0.390	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK1008-32	-	-
2010-030	2455368.59	2010 Jun 21 0214:08	Dnepr	-	450-3261-314	1.391	KTRAS/RVSNR	OS	-	CO	Sat LEO O 1	NK1008-36	-	-
2011-044	2455790.80	2011 Aug 17 0712:20	Dnepr	-	450-3261-319	0.713	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	spacequest.com	-	-
2013-042	2456527.11	2013 Aug 22 1439:20	Dnepr	-	510-7681-112	1.450	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	NK1310-31	-	-
2013-S94	2456595.91	2013 Oct 30 0952	R-36M2 15A18M	-	450-7951-202	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2013-066	2456617.80	2013 Nov 21 0710:17	Dnepr	-	510-7681-111	0.732	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	nasaspaceflight.com	-	-
2014-033	2456828.30	2014 Jun 19 1911:11	Dnepr	-	510-7681-108	0.956	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	nasaspaceflight.com	NK1408-21	-
2014-070	2456967.82	2014 Nov 6 0735:55	Dnepr	-	510-7681-109	0.737	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	nasaspaceflight.com	NK1501-28	-
2015-014	2457107.42	2015 Mar 25 2208:53	Dnepr	-	510-8681-101	1.162	KTRAS/RVSNR	OS	-	CO	Sat SSO O 1	nasaspaceflight.com	NK1505-44	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-A80	2443395.50	1977 Sep 9?	R-39	-	IRS -	BR-I-1 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A68	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-2 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A69	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-3 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A79	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-4 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A71	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-5 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A72	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-6 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A73	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-7 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1977-A74	2443477.50	1977 Dec	R-39	-	IRS -	BR-I-8 eject test	3M65	-	-	CHM	PS-65	-	-	1?	-	PS-65
1978-A72	2443842.50	1978 Dec?	R-39	-	IRS -	BR-I-9 eject test	-	-	-	CHM	PS-65	-	-	1?	-	PS-65
1978-A71	2443871.50	1978 Dec 29	R-39	-	IRS -	BR-II-1 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A52	2443873.50	1979 Jan?	R-39	-	IRS -	BR-II-2 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A53	2443873.50	1979 Jan?	R-39	-	IRS -	BR-II-3 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A54	2443873.50	1979 Jan?	R-39	-	IRS -	BR-II-4 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A55	2443873.50	1979 Jan?	R-39	-	IRS -	BR-II-5 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A56	2443873.50	1979 Jan?	R-39	-	IRS -	BR-II-6 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1979-A50	2444116.50	1979 Sep?	R-39	-	IRS -	BR-II-7 eject test	-	-	K-153	CHM	-	-	-	1?	-	CHM
1980-S19	2444266.50	1980 Jan 28	R-39	-	1L -	LKI-III-1	-	-	-	NEN	NSK-65	-	-	100?	-	(Kura)
1980-S20	2444333.50	1980 Apr 4	R-39	-	2L -	LKI-III-2	-	-	-	NEN	NSK-65	-	-	100?	-	(Kura)
1980-S21	2444407.50	1980 Jun 17	R-39	-	3L -	LKI-III-3	-	-	-	NEN	NSK-65	-	-	100?	-	(Kura)
1980-A56	2444515.50	1980 Oct 3	R-39	-	5L 59A/45x	LKI-III-4	-	-	-	NEN	NSK-65	-	-	40?	-	(Kura)
1980-A57	2444576.50	1980 Dec 3	R-39	-	6L 54A/46x	LKI-III-5	-	-	-	NEN	NSK-65	-	-	40?	-	(Kura)
1980-S22	2444600.50	1980 Dec 27	R-39	-	7L 56A/49x	LKI-III-6	5 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1981-S192	2444631.50	1981 Jan 27	R-39	-	21L 34x/51x	LKI-III-7	5 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1981-S193	2444695.50	1981 Apr 1	R-39	-	9L 38x/50x	LKI-III-8	-	-	-	NEN	NSK-65	-	-	100?	-	(Kura)
1981-A36	2444716.50	1981 Apr 22	R-39	-	8L 31P/53x	LKI-III-9	-	-	-	NEN	NSK-65	-	-	30?	-	(Kura)
1981-S195	2444935.50	1981 Nov 27	R-39	-	10L 38P/56A	LKI-III-10	5 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1981-S196	2444959.50	1981 Dec 21	R-39	-	13L 37P/63A	LKI-III-11	4 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1981-S173	2444965.50	1981 Dec 27	R-39	-	15L 45x/65A	LKI-III-12	4 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1982-S205	2444997.50	1982 Jan 28	R-39	-	16L 37A/66A	LKI-III-13	5 BB	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1982-S206	2445012.50	1982 Feb 12	R-39	-	17L 41P/70A	LKI-III-14	3 BB?	-	-	NEN	NSK-65	-	-	1000?	-	Kura
1982-S207	2445031.50	1982 Mar 3	R-39	-	23L 47A/67A	LKI-III-15	-	-	-	NEN	NSK-65	-	-	100?	-	(Kura)
1982-S208	2445070.50	1982 Apr 11	R-39	-	14L 41P/73A	LKI-III-16	5 BB	-	-	NEN	NSK-65	-	-	1000?	-	-
1982-S209	2445082.50	1982 Apr 23	R-39	-	18L 76A/74A	LKI-III-17	2 BB	-	-	NEN	NSK-65	-	-	1000?	-	-
1982-S210	2445129.50	1982 Jun 9	R-39	-	20L 75/76	LKI-III-18	4 BB	-	-	NEN	NSK-65	-	-	1000?	-	-
1982-S211	2445149.50	1982 Jun 29	R-39	-	30L 79/82	LKI-IV-1	3 BB	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S212	2445171.50	1982 Jul 21	R-39	-	27L -	LKI-IV-2	4 BB	-	TK-208?	BELA	-	-	-	1000?	-	-
1982-S220	2445172.50	1982 Jul 22	R-39	-	31L 83/84	LKI-IV-3	Mil variant	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S213	2445193.50	1982 Aug 12	R-39	-	33L 54P/85	LKI-IV-4	2 BB	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S214	2445193.50	1982 Aug 12	R-39	-	24L 82/88	LKI-IV-5	3 BB	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S215	2445213.50	1982 Sep 1	R-39	-	22L 61A/86	LKI-IV-6	-	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S221	2445213.50	1982 Sep 1	R-39	-	19L 72/75	LKI-IV-7	-	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S222	2445213.50	1982 Sep 1	R-39	-	29L 86/87	LKI-IV-8	-	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S176	2445256.50	1982 Oct 14	R-39	-	26L ?/36?	LKI-IV-9	4 BB	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S177	2445256.50	1982 Oct 14	R-39	-	32L 8?/93?	LKI-IV-10	1 BB	-	TK-208	BELA	-	-	-	1000?	-	Pacific
1982-S178	2445256.50	1982 Oct 14	R-39	-	28L 9?/	LKI-IV-11	4 BB	-	TK-208	BELA	-	-	-	1000?	-	-
1982-S182	2445268.71	1982 Oct 26 0500	RT-23 15Zh44	-	48764-251-1L	15Zh44 LKI-1	7 BB 15F444/AA90?	silo	-	NIIP-53	LC163/2/2	-	-	1000?	-	Kura
1982-S216	2445315.50	1982 Dec 12	R-39	-	34L 84/Akv	LKI-IV-12	2 BB	-	TK-208	BELA	-	-	-	1000?	-	Pacific
1982-S217	2445315.50	1982 Dec 12	R-39	-	35L 63/	LKI-IV-13	5 BB	-	TK-208	BELA	-	-	-	1000?	-	Kura
1982-S218	2445315.50	1982 Dec 12	R-39	-	36L	LKI-IV-14	2 BB	-	TK-208	BELA	-	-	-	1000?	-	Pacific
1982-S219	2445315.50	1982 Dec 12	R-39	-	37L	LKI-IV-15	4 BB	-	TK-208	BELA	-	-	-	1000?	-	Kura
1982-S194	2445331.91	1982 Dec 28 0945	RT-23 15Zh44	-	48764-252-2L	15Zh44 LKI-2	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1983-S29	2445408.66	1983 Mar 15 0355	RT-23 15Zh44	-	487x4-253-3L	15Zh44 LKI-3	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/2?	-	-	0?	-	(Kura)
1983-S93	2445480.66	1983 May 26 0350	RT-23 15Zh44	-	487x4-254-4L	15Zh44 LKI-4	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/1/18?	-	-	0?	-	(Kura)
1983-S216	2445542.50	1983 Jul 27	R-39	-	12 95/	3M65	4 BB	-	-	NEN?	-	-	-	1000?	-	Kura
1983-S30	2445583.58	1983 Sep 6 0200	RT-23 15Zh44	-	487x4-255-5L	15Zh44 LKI-5	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/2/2?	-	-	0	-	(Kura)
1983-S206	2445661.67	1983 Nov 23 0400	RT-23 15Zh44	-	48712-101-6L/6NI	15Zh44 LKI-6	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1983-S291	2445693.42	1983 Dec 24 2207	RT-23 15Zh44	-	48722-103-8L	15Zh44 LKI-7	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1984-S74	2445718.02	1984 Jan 18 1230	RT-23 15Zh52	-	48722-106-1L	15Zh52 LKI-1 (Rail)	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	0?	-	(Kura)
1984-S229	2445746.40	1984 Feb 15 2136	RT-23 15Zh44	-	7L	15Zh44 LKI-8	7 BB 15F444/AA90?	RGCh	-	NIIP-53	LC163/1/18?	-	-	0?	-	(Kura)
1984-S230	2445788.48	1984 Mar 28 2330	RT-23 15Zh52	-	2L	15Zh52 LKI-2	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2?	-	-	0?	-	(Kura)
1984-S282	2445833.50	1984 May 13	R-39	-	-	-	-	-	TK-202	BELA?	-	-	-	1000?	-	-
1984-S231	2445860.08	1984 Jun 8 1400?	RT-23 15Zh52	-	48722-108-3L	15Zh52 LKI-3	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1984-S283	2445875.50	1984 Jun 24	R-39	-	-	-	-	-	TK-208	BELA?	-	-	-	1000?	-	-
1984-S232	2445880.08	1984 Jun 28 1400	RT-23 15Zh52	-	48722-109-4L	15Zh52 LKI-4	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1984-S233	2445951.08	1984 Sep 7 1400	RT-23 15Zh52	-	48736-201-5L	15Zh52 LKI-5	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1984-S234	2445990.12	1984 Oct 16 1500	RT-23 15Zh52	-	48736-203-7L	15Zh52 LKI-6	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1984-S235	2446006.11	1984 Nov 1 1440	RT-23 15Zh52	-	48736-202-6L	15Zh52 LKI-7	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1984-S236	2446046.71	1984 Dec 12 0505	RT-23 15Zh52	-	48736-204-8L	15Zh52 LKI-8	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Khatanga
1984-S237	2446060.39	1984 Dec 25 2120	RT-23 15Zh52	-	48736-205-10L	15Zh52 LKI-9	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S46	2446124.31	1985 Feb 27 1930	RT-23U 15Zh61	-	48746-218-1L	15Zh61 LKI-1 (Rail)	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S326	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-1	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S327	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-2	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S328	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-3	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S329	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-4	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S330	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-5	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S331	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-6	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S332	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-7	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S333	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-8	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S334	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-9	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S335	2446124.50	1985 Mar?	R-39	-	-	3M65U LKI-10	10 BB	-	PLBR?	UNKPL	-	-	-	1000?	-	-
1985-S262	2446171.17	1985 Apr 15 1559	RT-23 15Zh52	-	487x6-206-9L	15Zh52 LKI-10	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S263	2446181.14	1985 Apr 25 1515	RT-23U 15Zh61	-	48741-201-2L	15Zh61 LKI-2	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2?	-	-	2?	-	-
1985-S303	2446320.50	1985 Sep 12	R-39	-	-	-	-	-	TK-208	BELA?	-	-	-	1000?	-	-
1985-S264	2446335.26	1985 Sep 26 1810	RT-23U 15Zh61	-	48741-203-4L	15Zh61 LKI-3	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S265	2446349.29	1985 Oct 10 1900	RT-23U 15Zh61	-	48741-202-3L	15Zh61 LKI-4	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S266	2446374.32	1985 Nov 4 1940	RT-23U 15Zh61	-	48751-204-5L	15Zh61 LKI-5	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-S300	2446385.50	1985 Nov 16	R-39	-	-	-	-	-	TK-12	BELA?	-	-	-	1000?	-	-
1985-S301	2446385.50	1985 Nov 16	R-39	-	-	-	-	-	TK-12	BELA?	-	-	-	1000?	-	-
1985-S267	2446398.34	1985 Nov 28 2004	RT-23U 15Zh61	-	48751-205-6L	15Zh61 LKI-6	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1985-S268	2446419.45	1985 Dec 19 2250	RT-23U 15Zh61	-	48751-206-7L	15Zh61 LKI-7	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1986-S172	2446503.35	1986 Mar 13 2030	RT-23U 15Zh61	-	48751-207-9L	15Zh61 LKI-8	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1986-S173	2446620.19	1986 Jul 8 1630	RT-23U 15Zh61	-	48751-208-10L	15Zh61 LKI-9	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Pacific
1986-S77	2446642.56	1986 Jul 31 0126	RT-23U 15Zh60	-	48788-302-1L	15Zh60 LKI-1	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1	-	-	1000?	-	Kura
1986-S174	2446654.62	1986 Aug 12 0300	RT-23U 15Zh61	-	48788-213-02	15Zh61 LKI-10	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Pacific
1986-S201	2446656.50	1986 Aug 14	R-39	-	-	-	-	-	TK-208	BELA?	-	-	-	1000?	-	-
1986-S199	2446656.50	1986 Aug 14	R-39	-	-	-	-	-	TK-202	BELA?	-	-	-	1000?	-	-
1986-S200	2446668.50	1986 Aug 26?	R-39	-	-	3M65 UBP	10 BB	-	TK-12	BELA?	-	-	-	1000?	-	-
1986-S202	2446675.50	1986 Sep 2?	R-39	-	-	3M65 UBP	10 BB	-	TK-12	BELA?	-	-	-	1000?	-	-
1986-S175	2446675.54	1986 Sep 2 0100	RT-23U 15Zh61	-	48788-213-01	15Zh61 LKI-11	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1986-S178	2446677.40	1986 Sep 3 2143	RT-23U 15Zh60	-	48788-303-2L	15Zh60 LKI-2	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1?	-	(Kura)
1986-S197	2446690.50	1986 Sep 17	R-39	-	-	3M65 UBP	10 BB	-	TK-208	BELA	-	-	-	1000?	-	Kura
1986-S196	2446691.50	1986 Sep 18?	R-39	-	-	3M65 UBP	10 BB	-	TK-12	BELA?	-	-	-	1000?	-	Kura?
1986-S198	2446698.50	1986 Sep 25	R-39	-	-	3M65 UBP	10 BB	-	TK-12	BELA?	-	-	-	1000?	-	Kura?
1986-S176	2446747.26	1986 Nov 12 1815	RT-23U 15Zh61	-	48788-213-03	15Zh61 LKI-12	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1986-S177	2446776.08	1986 Dec 11 1400	RT-23U 15Zh61	-	48798-213-07	15Zh61 LKI-13	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Pacific
1986-S179	2446789.15	1986 Dec 24 1540	RT-23U 15Zh60	-	48798-304-3L	15Zh60 LKI-3	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1987-A33	2446795.50	1987	R-39	-	-	3M65 UBP	10 BB	-	TK-202	BELA?	-	-	-	0?	-	(Kura)
1987-A40	2446795.50	1987	R-39	-	-	3M65 UBP	10 BB	-	TK-202	BELA?	-	-	-	0?	-	(Kura)
1987-S216	2446830.21	1987 Feb 3 1705	RT-23U 15Zh60	-	48798-305-4L	15Zh60 LKI-4	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	0?	-	(Kura)
1987-S214	2446964.24	1987 Jun 17 1740	RT-23U 15Zh61	-	48798-213-08	15Zh61 LKI-14	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Pacific
1987-S217	2446993.38	1987 Jul 16 2105	RT-23U 15Zh60	-	48765-401-5L	15Zh60 LKI-5	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	10?	-	(Kura)
1987-S218	2447035.29	1987 Aug 27 1900	RT-23U 15Zh60	-	48775-402-6L	15Zh60 LKI-6	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1987-A34	2447046.50	1987 Sep 8	R-39	-	-	3M65 UBP	10 BB	-	TK-12	NPOLE	-	-	-	0?	-	(Chizha)
1987-S239	2447046.50	1987 Sep 8	R-39	-	-	3M65 UBP	10 BB	-	TK-12	NPOLE	-	-	-	1000?	-	Chizha
1987-S215	2447048.08	1987 Sep 9 1401	RT-23U 15Zh61	-	48798-213-09	15Zh61 LKI-15	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1987-S219	2447056.89	1987 Sep 18 0915	RT-23U 15Zh60	-	48775-403-7L	15Zh60 LKI-7	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1987-S220	2447073.76	1987 Oct 5 0609	RT-23U 15Zh60	-	48775-404-11L	15Zh60 LKI-8	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1987-S221	2447123.12	1987 Nov 23 1459	RT-23U 15Zh60	-	48775-405-12L	15Zh60 LKI-9	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1987-S222	2447133.53	1987 Dec 4 0050	RT-23U 15Zh60	-	48775-406-13L	15Zh60 LKI-10	10 BB 15F14/AA102	RGCh	-	NIIP-53	LC172/2	-	-	1000?	-	Kura
1987-S182	2447151.94	1987 Dec 22 1030	RT-23U 15Zh61	-	48751-209-8L	15Zh61 LKI-16	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1988-S176	2447195.15	1988 Feb 3 1530	RT-23U 15Zh60	-	48775-409-9L	15Zh60 LKI-11	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1988-S177	2447209.23	1988 Feb 17 1729	RT-23U 15Zh60	-	48775-411-15L	15Zh60 LKI-12	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1988-S178	2447279.17	1988 Apr 27 1559	RT-23U 15Zh60	-	48775-410-10L	15Zh60 LKI-13	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1988-S179	2447337.58	1988 Jun 25 0200	RT-23U 15Zh60	-	48719-314-06	15Zh60 LKI-14	10 BB 15F14/AA102	RGCh	-	NIIP-53	LC172/2	-	-	1000?	-	Pacific
1988-S180	2447368.03	1988 Jul 25 1250	RT-23U 15Zh60	-	48719-602-16L	15Zh60 LKI-15	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1988-S119	2447427.31	1988 Sep 22 1930	RT-23U 15Zh60	-	48775-412-14L	15Zh60 LKI-16	10 BB 15F14/AA102	RGCh	-	NIIP-53	Yu-1?	-	-	1000?	-	Kura
1989-S139	2447578.50	1989 Feb 21	R-39U	-	-	3M65U UBP	10 BB	-	TK-12	BELA?	-	-	-	1000?	-	Kura
1988-S190	2447748.50	1989 Aug 10?	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BELA?	-	-	-	1000?	-	Kura
1988-S191	2447748.50	1989 Aug 10?	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BELA?	-	-	-	1000?	-	Kura
1989-S131	2447790.08	1989 Sep 20 1400	RT-23U 15Zh61	-	48737-415-03	15Zh61 K-1	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1989-S140	2447799.50	1989 Oct	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BELA?	-	-	-	1000?	-	Kura
1989-S135	2447832.31	1989 Nov 1 1930	RT-23U 15Zh60	-	48737-501-8L	15Zh60 K-1	10 BB 15F14/AA102	RGCh	-	NIIP-53	LC172/2	-	-	1000?	-	Pacific
1990-S52	2447951.10	1990 Feb 28 1430	RT-23U 15Zh60	-	48737-415-08	15Zh60 K-2	10 BB 15F14/AA102	RGCh	-	NIIP-53	LC172/2	-	-	1000?	-	Kura
1990-S92	2448027.01	1990 May 15 1210	RT-23U 15Zh60	-	48747-415-13	15Zh60 K-3	10 BB 15F14/AA102	RGCh	-	NIIP-53	LC172/2	-	-	1000?	-	Kura
1990-S97	2448097.00	1990 Jul 24 1155	RT-23U 15Zh61	-	48743-711-43	15Zh61 K-2	10 BB 15F444/AA90	RGCh	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1990-S197	2447891.50	1990	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BELA?	-	-	-	1000?	-	Kura
1990-S198	2448072.50	1990 Q3?	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BELA?	-	-	-	1000?	-	-
1991-S219	2448468.50	1991 Aug	R-39U	-	-	3M65U UBP	-	-	TK-17	BELA?	-	-	-	1000?	-	Kura
1991-S220	2448468.50	1991 Aug	R-39U	-	-	3M65U UBP	-	-	TK-17	BELA?	-	-	-	1000?	-	Kura
1991-A13	2448527.18	1991 Sep 27 1613	R-39	-	-	-	-	Exploded in tube	TK-17	BELA	-	-	-	0	-	-
1992-S108	2448907.50	1992 Oct 12	R-39	-	-	-	-	-	TK-20	BELA?	-	-	-	1000?	-	-
1992-S109	2448907.50	1992 Oct 12	R-39	-	-	-	-	-	TK-20	BELA?	-	-	-	1000?	-	-
1992-S110	2448907.50	1992 Oct 12	R-39	-	-	-	-	-	TK-20	BELA?	-	-	-	1000?	-	-
1993-S82	2449260.50	1993 Oct?	R-39	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	1000?	-	Kura
1993-S81	2449291.50	1993 Nov?	R-39UTTKh	-	1L	3M91 LKI-III-1	8 BB	-	-	NEN	-	-	-	100?	-	-
1993-S80	2449318.50	1993 Nov 27	R-39	-	-	-	-	-	TK-17	BELA?	-	-	-	1000?	-	-
1994-S103	2449686.50	1994 Dec	R-39UTTKh	-	2L	3M91 LKI-III-2	8 BB	-	-	NEN	-	-	-	10?	-	-
1995-S93	2449717.50	1995	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BLA?	-	-	-	1000?	-	Kura
1995-S94	2449717.50	1995	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BLA?	-	-	-	1000?	-	Kura
1995-S95	2449717.50	1995	R-39U	-	-	3M65U UBP	10 BB	-	TK-13	BLA?	-	-	-	1000?	-	Kura
1995-S58	2449954.50	1995 Aug 25	R-39U	-	-	3M65U UBP	10 BB	-	TK-20	NPOLE	-	-	-	1000?	-	Chiza
1996-A01	2450082.50	1996	Grom	-	RSM-52V	-	-	-	-	NEN	-	-	-	0?	-	-
1996-A07	2450379.50	1996 Oct 23	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	3	-	-
1996-A16	2450379.50	1996 Oct 23	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	3	-	-
1996-S82	2450387.50	1996 Nov	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	1000?	-	Kura
1996-S83	2450387.50	1996 Nov	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	1000?	-	Kura
1996-S84	2450387.50	1996 Nov	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BLA	-	-	-	1000?	-	Kura
1996-S81	2450391.50	1996 Nov 4?	R-39U	-	-	3M65U UBP	10 BB	-	TK-20	NPOLE	-	-	-	1000?	-	Kura
1996-S73	2450415.97	1996 Nov 28 1110	RT-23U 15Zh61	-	15Zh61	15Zh61 UBP-1	10 BB 15F444/AA90	Rail-mobile	-	NIIP-53	LC163/2	-	-	1000?	-	Kura
1997-A01	2450448.50	1997?	Grom	-	-	-	-	-	-	NEN	-	-	-	0?	-	-
1997-A07	2450534.50	1997 Mar 27	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A08	2450534.50	1997 Mar 27	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A09	2450534.50	1997 Mar 27	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A10	2450534.50	1997 Mar 27	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A11	2450534.50	1997 Mar 27	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A12	2450534.50	1997 Mar 27?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A13	2450534.50	1997 Mar 27?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A14	2450534.50	1997 Mar 27?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A15	2450534.50	1997 Mar 27?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A16	2450534.50	1997 Mar 27?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A17	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A18	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-A19	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A20	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A21	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A22	2450535.50	1997 Mar 28?	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A23	2450535.50	1997 Mar 28	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A24	2450535.50	1997 Mar 28	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A25	2450535.50	1997 Mar 28	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A26	2450535.50	1997 Mar 28	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A27	2450535.50	1997 Mar 28	R-39	-	-	Arms control	-	-	TK-13	BLA	-	-	-	3?	-	-
1997-A34	2450771.50	1997 Nov 19	Grom	-	3L	3M91 LKI-III-3	8 BB	RSM-52V	-	NEN	-	-	-	0	-	(Kura)
1997-A36	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A37	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A38	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A39	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A40	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A41	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A42	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A43	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A44	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A45	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A46	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A47	2450785.50	1997 Dec 3	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A48	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A49	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A50	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A51	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A52	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A53	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A54	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1997-A55	2450786.50	1997 Dec 4	R-39	-	-	Arms control	-	-	TK-20	BLA	-	-	-	10?	-	-
1998-S68	2451156.93	1998 Dec 9 1020	RT-23U 15Zh61	-	487-9221-306	15Zh61 UBP-2	10 BB 15F444/AA90	-	-	NIIP-53	LC163/4	-	-	1000?	-	Kura
1999-S75	2451499.50	1999 Nov 17	R-39U	-	-	3M65U UBP	-	-	TK-20	BLA	-	-	-	1000?	-	Kura
1999-S76	2451499.50	1999 Nov 17	R-39U	-	-	3M65U UBP	-	-	TK-20	BLA	-	-	-	1000?	-	Kura
1999-S87	2451512.50	1999 Dec?	R-39	?	-	-	-	-	TK-20	NPOLE	-	-	-	1000?	-	-
2001-S46	2452200.83	2001 Oct 18 0800	R-39U	-	-	3M65U UBP	10 BB	-	TK-20	BELA	-	-	-	1000?	-	Kura
2001-S71	2452200.92	2001 Oct 18 1000	R-39U	-	-	3M65U UBP	10 BB	-	TK-20	BELA	-	-	-	1000?	-	Kura
2002-S88	2452608.50	2002 Dec	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BELA	-	-	-	1000?	-	Kura
2003-S58	2452927.92	2003 Oct 15 1003	R-39U	-	-	3M65U UBP	10 BB	-	TK-17	BELA	-	-	-	1000?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-A80	2443395.50	1977 Sep 9?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A68	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A69	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A79	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A71	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A72	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A73	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1977-A74	2443477.50	1977 Dec	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1978-A72	2443842.50	1978 Dec?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1978-A71	2443871.50	1978 Dec 29	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A52	2443873.50	1979 Jan?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A53	2443873.50	1979 Jan?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A54	2443873.50	1979 Jan?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A55	2443873.50	1979 Jan?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A56	2443873.50	1979 Jan?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1979-A50	2444116.50	1979 Sep?	R-39	-	IRS -	0.000	VMF	MS	-	-	Test	RML	-	-
1980-S19	2444266.50	1980 Jan 28	R-39	-	1L -	0.000	RVSN	MF	U	-	Test	PP	-	-
1980-S20	2444333.50	1980 Apr 4	R-39	-	2L -	0.000	RVSN	MF	U	-	Test	PP	-	-
1980-S21	2444407.50	1980 Jun 17	R-39	-	3L -	0.000	RVSN	MF	U	-	Test	PP	-	-
1980-A56	2444515.50	1980 Oct 3	R-39	-	5L 59A/45x	0.000	RVSN	MF	U	-	Test	PP	-	-
1980-A57	2444576.50	1980 Dec 3	R-39	-	6L 54A/46x	0.000	RVSN	MF	U	-	Test	PP	-	-
1980-S22	2444600.50	1980 Dec 27	R-39	-	7L 56A/49x	0.000	RVSN	MS	-	-	Test	PP	-	-
1981-S192	2444631.50	1981 Jan 27	R-39	-	21L 34x/51x	0.000	RVSN	MS	-	-	Test	PP	-	-
1981-S193	2444695.50	1981 Apr 1	R-39	-	9L 38x/50x	0.000	RVSN	MF	U	-	Test	PP	-	-
1981-A36	2444716.50	1981 Apr 22	R-39	-	8L 31P/53x	0.000	RVSN	MF	U	-	Test	PP	-	-
1981-S195	2444935.50	1981 Nov 27	R-39	-	10L 38P/56A	0.000	RVSN	MS	-	-	Test	PP	-	-
1981-S196	2444959.50	1981 Dec 21	R-39	-	13L 37P/63A	0.000	RVSN	MS	-	-	Test	PP	-	-
1981-S173	2444965.50	1981 Dec 27	R-39	-	15L 45x/65A	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S205	2444997.50	1982 Jan 28	R-39	-	16L 37A/66A	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S206	2445012.50	1982 Feb 12	R-39	-	17L 41P/70A	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S207	2445031.50	1982 Mar 3	R-39	-	23L 47A/67A	0.000	RVSN	MF	U	-	Test	PP	-	-
1982-S208	2445070.50	1982 Apr 11	R-39	-	14L 41P/73A	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S209	2445082.50	1982 Apr 23	R-39	-	18L 76A/74A	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S210	2445129.50	1982 Jun 9	R-39	-	20L 75/76	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S211	2445149.50	1982 Jun 29	R-39	-	30L 79/82	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S212	2445171.50	1982 Jul 21	R-39	-	27L -	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S220	2445172.50	1982 Jul 22	R-39	-	31L 83/84	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S213	2445193.50	1982 Aug 12	R-39	-	33L 54P/85	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S214	2445193.50	1982 Aug 12	R-39	-	24L 82/88	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S215	2445213.50	1982 Sep 1	R-39	-	22L 61A/86	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S221	2445213.50	1982 Sep 1	R-39	-	19L 72/75	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S222	2445213.50	1982 Sep 1	R-39	-	29L 86/87	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S176	2445256.50	1982 Oct 14	R-39	-	26L ?/36?	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
1982-S177	2445256.50	1982 Oct 14	R-39	-	32L 8?/93?	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
1982-S178	2445256.50	1982 Oct 14	R-39	-	28L 9?/	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
1982-S182	2445268.71	1982 Oct 26 0500	RT-23 15Zh44	-	48764-251-1L	0.000	RVSN	MS	-	-	Test	RML	-	or 15Zh60
1982-S216	2445315.50	1982 Dec 12	R-39	-	34L 84/Akv	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S217	2445315.50	1982 Dec 12	R-39	-	35L 63/	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S218	2445315.50	1982 Dec 12	R-39	-	36L	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S219	2445315.50	1982 Dec 12	R-39	-	37L	0.000	RVSN	MS	-	-	Test	PP	-	-
1982-S194	2445331.91	1982 Dec 28 0945	RT-23 15Zh44	-	48764-252-2L	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S29	2445408.66	1983 Mar 15 0355	RT-23 15Zh44	-	487x4-253-3L	0.000	RVSN	MF	U	-	Test	RML	-	-
1983-S93	2445480.66	1983 May 26 0350	RT-23 15Zh44	-	487x4-254-4L	0.000	RVSN	MF	U	-	Test	RML	-	-
1983-S216	2445542.50	1983 Jul 27	R-39	-	12 95/	0.000	RVSN	MS	-	-	Test	PP	-	-
1983-S30	2445583.58	1983 Sep 6 0200	RT-23 15Zh44	-	487x4-255-5L	0.000	RVSN	MF	U	-	Test	RML	-	-
1983-S206	2445661.67	1983 Nov 23 0400	RT-23 15Zh44	-	48712-101-6L/6NI	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S291	2445693.42	1983 Dec 24 2207	RT-23 15Zh44	-	48722-103-8L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S74	2445718.02	1984 Jan 18 1230	RT-23 15Zh52	-	48722-106-1L	0.000	RVSN	MF	U	-	Test	RML	NK0709-36	Pervov
1984-S229	2445746.40	1984 Feb 15 2136	RT-23 15Zh44	-	7L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S230	2445788.48	1984 Mar 28 2330	RT-23 15Zh52	-	2L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S282	2445833.50	1984 May 13	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1984-S231	2445860.08	1984 Jun 8 1400?	RT-23 15Zh52	-	48722-108-3L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S283	2445875.50	1984 Jun 24	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1984-S232	2445880.08	1984 Jun 28 1400	RT-23 15Zh52	-	48722-109-4L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S233	2445951.08	1984 Sep 7 1400	RT-23 15Zh52	-	48736-201-5L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S234	2445990.12	1984 Oct 16 1500	RT-23 15Zh52	-	48736-203-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S235	2446006.11	1984 Nov 1 1440	RT-23 15Zh52	-	48736-202-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S236	2446046.71	1984 Dec 12 0505	RT-23 15Zh52	-	48736-204-8L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S237	2446060.39	1984 Dec 25 2120	RT-23 15Zh52	-	48736-205-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S46	2446124.31	1985 Feb 27 1930	RT-23U 15Zh61	-	48746-218-1L	0.000	RVSN	MS	-	-	Test	RML	Pervov	-
1985-S326	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S327	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S328	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S329	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S330	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S331	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S332	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S333	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S334	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S335	2446124.50	1985 Mar?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1985-S262	2446171.17	1985 Apr 15 1559	RT-23 15Zh52	-	487x6-206-9L	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S263	2446181.14	1985 Apr 25 1515	RT-23U 15Zh61	-	48741-201-2L	0.000	RVSN	MF	U	-	Test	RML	-	-
1985-S303	2446320.50	1985 Sep 12	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1985-S264	2446335.26	1985 Sep 26 1810	RT-23U 15Zh61	-	48741-203-4L	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S265	2446349.29	1985 Oct 10 1900	RT-23U 15Zh61	-	48741-202-3L	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S266	2446374.32	1985 Nov 4 1940	RT-23U 15Zh61	-	48751-204-5L	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-S300	2446385.50	1985 Nov 16	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1985-S301	2446385.50	1985 Nov 16	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1985-S267	2446398.34	1985 Nov 28 2004	RT-23U 15Zh61	-	48751-205-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S268	2446419.45	1985 Dec 19 2250	RT-23U 15Zh61	-	48751-206-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S172	2446503.35	1986 Mar 13 2030	RT-23U 15Zh61	-	48751-207-9L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1986-S173	2446620.19	1986 Jul 8 1630	RT-23U 15Zh61	-	48751-208-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S77	2446642.56	1986 Jul 31 0126	RT-23U 15Zh60	-	48788-302-1L	0.000	RVSN	MS	-	-	Test	Pervov	-	-
1986-S174	2446654.62	1986 Aug 12 0300	RT-23U 15Zh61	-	48788-213-02	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S201	2446656.50	1986 Aug 14	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1986-S199	2446656.50	1986 Aug 14	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1986-S200	2446668.50	1986 Aug 26?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S202	2446675.50	1986 Sep 2?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1986-S175	2446675.54	1986 Sep 2 0100	RT-23U 15Zh61	-	48788-213-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S178	2446677.40	1986 Sep 3 2143	RT-23U 15Zh60	-	48788-303-2L	0.000	RVSN	MF	U	-	Test	RML	-	-
1986-S197	2446690.50	1986 Sep 17	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	tehnowar.ru	-
1986-S196	2446691.50	1986 Sep 18?	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1986-S198	2446698.50	1986 Sep 25	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1986-S176	2446747.26	1986 Nov 12 1815	RT-23U 15Zh61	-	48788-213-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S177	2446776.08	1986 Dec 11 1400	RT-23U 15Zh61	-	48798-213-07	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S179	2446789.15	1986 Dec 24 1540	RT-23U 15Zh60	-	48798-304-3L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-A33	2446795.50	1987	R-39	-	-	0.000	VMF	MF	U	-	Test	tehnowar.ru	-	-
1987-A40	2446795.50	1987	R-39	-	-	0.000	VMF	MF	U	-	Test	tehnowar.ru	-	-
1987-S216	2446830.21	1987 Feb 3 1705	RT-23U 15Zh60	-	48798-305-4L	0.000	RVSN	MF	U	-	Test	RML	-	-
1987-S214	2446964.24	1987 Jun 17 1740	RT-23U 15Zh61	-	48798-213-08	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S217	2446993.38	1987 Jul 16 2105	RT-23U 15Zh60	-	48765-401-5L	0.000	RVSN	MF	U	-	Test	RML	-	-
1987-S218	2447035.29	1987 Aug 27 1900	RT-23U 15Zh60	-	48775-402-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-A34	2447046.50	1987 Sep 8	R-39	-	-	0.000	VMF	MF	U	-	Test	RML	-	-
1987-S239	2447046.50	1987 Sep 8	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	tehnowar.ru	88N
1987-S215	2447048.08	1987 Sep 9 1401	RT-23U 15Zh61	-	48798-213-09	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1987-S219	2447056.89	1987 Sep 18 0915	RT-23U 15Zh60	-	48775-403-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S220	2447073.76	1987 Oct 5 0609	RT-23U 15Zh60	-	48775-404-11L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S221	2447123.12	1987 Nov 23 1459	RT-23U 15Zh60	-	48775-405-12L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S222	2447133.53	1987 Dec 4 0050	RT-23U 15Zh60	-	48775-406-13L	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S182	2447151.94	1987 Dec 22 1030	RT-23U 15Zh61	-	48751-209-8L	0.000	RVSN	MS	-	-	Test	RML	Pervov	-
1988-S176	2447195.15	1988 Feb 3 1530	RT-23U 15Zh60	-	48775-409-9L	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S177	2447209.23	1988 Feb 17 1729	RT-23U 15Zh60	-	48775-411-15L	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S178	2447279.17	1988 Apr 27 1559	RT-23U 15Zh60	-	48775-410-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S179	2447337.58	1988 Jun 25 0200	RT-23U 15Zh60	-	48719-314-06	0.000	RVSN	MS	-	-	Test	RML	-	2 BB failed
1988-S180	2447368.03	1988 Jul 25 1250	RT-23U 15Zh60	-	48719-602-16L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1988-S119	2447427.31	1988 Sep 22 1930	RT-23U 15Zh60	-	48775-412-14L	0.000	RVSN	MS	-	-	Test	RPCA	Pervov	or Sep 26 Per.
1989-S139	2447578.50	1989 Feb 21	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1988-S190	2447748.50	1989 Aug 10?	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	RML	-
1988-S191	2447748.50	1989 Aug 10?	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	RML	-
1989-S131	2447790.08	1989 Sep 20 1400	RT-23U 15Zh61	-	48737-415-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S140	2447799.50	1989 Oct	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1989-S135	2447832.31	1989 Nov 1 1930	RT-23U 15Zh60	-	48737-501-8L	0.000	RVSN	MS	-	-	Test	RML	RPCB	-
1990-S52	2447951.10	1990 Feb 28 1430	RT-23U 15Zh60	-	48737-415-08	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1990-S92	2448027.01	1990 May 15 1210	RT-23U 15Zh60	-	48747-415-13	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1990-S97	2448097.00	1990 Jul 24 1155	RT-23U 15Zh61	-	48743-711-43	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S197	2447891.50	1990	R-39U	-	-	0.000	VMF	MS	-	-	Test	RML	tehnowar.ru	-
1990-S198	2448072.50	1990 Q3?	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1991-S219	2448468.50	1991 Aug	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1991-S220	2448468.50	1991 Aug	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1991-A13	2448527.18	1991 Sep 27 1613	R-39	-	-	0.000	VMF	MF	U	-	Test	PravdaSevera141029	-	-
1992-S108	2448907.50	1992 Oct 12	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1992-S109	2448907.50	1992 Oct 12	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1992-S110	2448907.50	1992 Oct 12	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1993-S82	2449260.50	1993 Oct?	R-39	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1993-S81	2449291.50	1993 Nov?	R-39UTTKh	-	1L	0.000	VMF	MF	U	-	Test	RML	-	-
1993-S80	2449318.50	1993 Nov 27	R-39	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1994-S103	2449686.50	1994 Dec	R-39UTTKh	-	2L	0.000	VMF	MF	U	-	Test	RML	-	-
1995-S93	2449717.50	1995	R-39U	-	-	0.000	VMF	MS	-	-	Test	rusaerog	-	-
1995-S94	2449717.50	1995	R-39U	-	-	0.000	VMF	MS	-	-	Test	rusaerog	-	-
1995-S95	2449717.50	1995	R-39U	-	-	0.000	VMF	MS	-	-	Test	rusaerog	-	-
1995-S58	2449954.50	1995 Aug 25	R-39U	-	-	0.000	VMF	MS	-	-	Test	rusaerog	-	-
1996-A01	2450082.50	1996	Grom	-	RSM-52V	0.000	RVSN/VMF	MF	U	-	Test	www.fas.org	-	-
1996-A07	2450379.50	1996 Oct 23	R-39U	-	-	0.000	VMF	MS	-	-	Destruct/Test	www.nti.org	-	-
1996-A16	2450379.50	1996 Oct 23	R-39U	-	-	0.000	VMF	MS	-	-	Destruct/Test	www.nti.org	-	-
1996-S82	2450387.50	1996 Nov	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1996-S83	2450387.50	1996 Nov	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1996-S84	2450387.50	1996 Nov	R-39U	-	-	0.000	VMF	MS	-	-	Test	tehnowar.ru	-	-
1996-S81	2450391.50	1996 Nov 4?	R-39U	-	-	0.000	VMF	MS	-	-	Test	RML	tehnowar.ru	-
1996-S73	2450415.97	1996 Nov 28 1110	RT-23U 15Zh61	-	15Zh61	0.000	RVSN	MS	-	-	Test	RML	www.nti.org	-
1997-A01	2450448.50	1997?	Grom	-	-	0.000	RVSN/VMF	MF	U	-	Test	www.fas.org	-	-
1997-A07	2450534.50	1997 Mar 27	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A08	2450534.50	1997 Mar 27	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A09	2450534.50	1997 Mar 27	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A10	2450534.50	1997 Mar 27	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A11	2450534.50	1997 Mar 27	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A12	2450534.50	1997 Mar 27?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A13	2450534.50	1997 Mar 27?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A14	2450534.50	1997 Mar 27?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A15	2450534.50	1997 Mar 27?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A16	2450534.50	1997 Mar 27?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A17	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A18	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-A19	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A20	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A21	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A22	2450535.50	1997 Mar 28?	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A23	2450535.50	1997 Mar 28	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A24	2450535.50	1997 Mar 28	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A25	2450535.50	1997 Mar 28	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A26	2450535.50	1997 Mar 28	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A27	2450535.50	1997 Mar 28	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.bellona.no	-	-
1997-A34	2450771.50	1997 Nov 19	Grom	-	3L	0.000	RVSN/VMF	MF	U	-	Test	www.cdiss.org	-	-
1997-A36	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	www.nti.org	-	-
1997-A37	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A38	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A39	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A40	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A41	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A42	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A43	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A44	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A45	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A46	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A47	2450785.50	1997 Dec 3	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A48	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A49	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A50	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A51	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A52	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A53	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A54	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1997-A55	2450786.50	1997 Dec 4	R-39	-	-	0.000	VMF	MS	-	-	Destruct	news.bbc.co.uk	-	-
1998-S68	2451156.93	1998 Dec 9 1020	RT-23U 15Zh61	-	487-9221-306	0.000	RVSN	MS	-	-	Test	PL55	RPCA	RML
1999-S75	2451499.50	1999 Nov 17	R-39U	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	Or TK-12?
1999-S76	2451499.50	1999 Nov 17	R-39U	-	-	0.000	RVSN	MS	-	-	Test	Wire	-	Or TK-12?
1999-S87	2451512.50	1999 Dec?	R-39	?	-	0.000	RVSN	MS	-	-	Test	tehowar.ru	-	-
2001-S46	2452200.83	2001 Oct 18 0800	R-39U	-	-	0.000	RVSN	MS	-	-	Test	RML	tehowar.ru	-
2001-S71	2452200.92	2001 Oct 18 1000	R-39U	-	-	0.000	RVSN	MS	-	-	Test	RML	tehowar.ru	-
2002-S88	2452608.50	2002 Dec	R-39U	-	-	0.000	RVSN	MS	-	-	Test	tehowar.ru	RML	-
2003-S58	2452927.92	2003 Oct 15 1003	R-39U	-	-	0.000	RVSN	MS	-	-	Test	RML	tehowar.ru	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A118	2434451.50	1953 Mar 15	R-5	-	-	8A62 LKI I-1	MGCh	-	-	GTsP-4	LC21	-	-	0?	-	-
1953-A125	2434454.50	1953 Mar 18	R-5	-	-	8A62 LKI I-2	MGCh	-	-	GTsP-4	LC21	-	-	0?	-	-
1953-S09	2434469.50	1953 Apr 2	R-5	-	-	8A62 LKI I-3	MGCh	-	-	GTsP-4	LC21	-	-	300?	1200	-
1953-A162	2434475.50	1953 Apr 8	R-5	-	-	8A62 LKI I-4	MGCh	-	-	GTsP-4	LC21	-	-	0?	-	-
1953-S08	2434486.50	1953 Apr 19	R-5	-	-	8A62 LKI I-5	MGCh	-	-	GTsP-4	LC21	-	-	300?	1206	-
1953-S15	2434491.50	1953 Apr 24	R-5	-	-	8A62 LKI I-6	MGCh	-	-	GTsP-4	LC21	-	-	300?	-	-
1953-S16	2434510.50	1953 May 13	R-5	-	-	8A62 LKI I-7	MGCh	-	-	GTsP-4	LC21	-	-	300?	1206	-
1953-S20	2434520.50	1953 May 23	R-5	-	-	8A62 LKI I-8	MGCh	-	-	GTsP-4	LC21	-	-	300?	550	-
1953-S50	2434680.50	1953 Oct 30	R-5	-	-	8A62 LKI II-1	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1953-S51	2434684.50	1953 Nov 3	R-5	-	-	8A62 LKI II-2	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1953-S52	2434698.50	1953 Nov 17	R-5	-	-	8A62 LKI II-3	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1953-S53	2434702.50	1953 Nov 21	R-5	-	-	8A62 LKI II-4	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1953-S54	2434707.50	1953 Nov 26	R-5	-	-	8A62 LKI II-5	MGCh	-	-	GTsP-4	LC21	-	-	300?	-	-
1953-S67	2434716.50	1953 Dec 5	R-5	-	-	8A62 LKI II-6	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1953-S69	2434720.50	1953 Dec 9	R-5	-	-	8A62 LKI II-7	MGCh	-	-	GTsP-4	LC21	-	-	300?	1185	-
1954-S63	2434966.50	1954 Aug 12	R-5	-	K3-1	8A62 LKI III-1	MGCh	-	-	GTsP-4	LC21	-	-	300?	-	-
1954-S59	2434971.50	1954 Aug 17	R-5	-	K3-2	8A62 LKI III-2	MGCh	-	-	GTsP-4	LC21	-	-	300?	1200?	-
1954-S60	2434973.50	1954 Aug 19	R-5	-	K3-3	8A62 LKI III-3	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S67	2434978.50	1954 Aug 24	R-5	-	K3-4	8A62 LKI III-4	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S68	2434979.50	1954 Aug 25	R-5	-	K3-5	8A62 LKI III-5	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S69	2434990.50	1954 Sep 5	R-5	-	K3-11	8A62 LKI III-6	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S73	2434993.50	1954 Sep 8	R-5	-	K3-7	8A62 LKI III-7	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S74	2435024.50	1954 Oct 9	R-5	-	K3-9	8A62 LKI III-8	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S75	2435034.50	1954 Oct 19	R-5	-	K3-6	8A62 LKI III-9	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1954-S80	2435106.50	1954 Dec 30	R-5	-	K3-10	8A62 ZI-1	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S02	2435113.50	1955 Jan 6	R-5	-	K3-13	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S03	2435115.50	1955 Jan 8	R-5	-	K3-12	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S04	2435124.50	1955 Jan 17	R-5	-	K3-14	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S05	2435127.50	1955 Jan 20	R-5M	-	S1-2	8K51 LKI-1	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S116	2435128.50	1955 Jan 21	R-5	-	K3-17	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S117	2435129.50	1955 Jan 22	R-5	-	K3-18	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S118	2435132.50	1955 Jan 25	R-5	-	K3-19	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	-	-
1955-S119	2435136.50	1955 Jan 29	R-5	-	K3-20	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S21	2435139.50	1955 Feb 1	R-5	-	K3-15	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S16	2435145.50	1955 Feb 7	R-5	-	K3-8	8A62 ZI	MGCh	-	-	GTsP-4	LC21	-	-	300?	1191	-
1955-S11	2435147.50	1955 Feb 9	R-5M	-	S1-3	8K51 LKI-2	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S12	2435152.50	1955 Feb 14	R-5M	-	S1-4	8K51 LKI-3	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S20	2435226.50	1955 Apr 29	R-5M	-	S1-5	8K51 LKI-4	MGCh	-	-	GTsP-4	LC21	-	-	300?	1163	-
1955-S36	2435247.50	1955 May 20	R-5M	-	S1-6	8K51 LKI-5	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S37	2435253.50	1955 May 26	R-5M	-	S1-1	8K51 LKI-6	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S43	2435264.50	1955 Jun 6	R-5M	-	S1-7	8K51 LKI-7	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S165	2435273.50	1955 Jun 15	R-5M	-	S1-10	8K51 LKI-8	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S46	2435280.50	1955 Jun 22	R-5M	-	S1-9	8K51 LKI-9	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S47	2435281.50	1955 Jun 23	R-5M	-	S1-12	8K51 LKI-10	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S53	2435286.50	1955 Jun 28	R-5M	-	S1-11	8K51 LKI-11	MGCh	-	-	GTsP-4	LC21	-	-	500?	1163	-
1955-S24	2435288.50	1955 Jun 30	R-5M	-	S1-8	8K51 LKI-12	MGCh	-	-	GTsP-4	LC21	-	-	500?	552	-
1955-S25	2435295.50	1955 Jul 7	R-5M	-	S1-13	8K51 LKI-13	MGCh	-	-	GTsP-4	LC21	-	-	500?	552	-
1955-S56	2435297.50	1955 Jul 9	R-5M	-	S1-14	8K51 LKI-14	MGCh	-	-	GTsP-4	LC21	-	-	500?	1080	-
1955-S64	2435328.50	1955 Aug 9	R-5M	-	S1-18	8K51 LKI-2-1	MGCh	-	-	GTsP-4	LC21	-	-	500?	1165	-
1955-S61	2435331.50	1955 Aug 12	R-5M	-	S1-17	8K51 LKI-2-2	MGCh	-	-	GTsP-4	LC21	-	-	500?	1171	-
1955-S67	2435335.50	1955 Aug 16	R-5M	-	S1-16	8K51 LKI-2-3	MGCh	-	-	GTsP-4	LC21	-	-	100?	1165	-
1955-S68	2435369.50	1955 Sep 19	R-5M	-	S1-20	8K51 LKI-2-4	MGCh	-	-	GTsP-4	LC21	-	-	500?	1165	-
1955-S69	2435373.50	1955 Sep 23	R-5M	-	S1-19	8K51 LKI-2-5	MGCh	-	-	GTsP-4	LC21	-	-	500?	1171	-
1955-S85	2435377.50	1955 Sep 27	R-5M	-	S1-24	8K51 LKI-2-6	MGCh	-	-	GTsP-4	LC21	-	-	500?	1190	-
1955-S86	2435381.50	1955 Oct 1	R-5M	-	S1-25	8K51 LKI-2-7	MGCh	-	-	GTsP-4	LC21	-	-	500?	1190	-
1955-S98	2435412.50	1955 Nov 1	R-5M	-	S1-23	8K51 LKI-2-8	MGCh	-	-	GTsP-4	LC21	-	-	500?	1083	-
1955-S99	2435415.50	1955 Nov 4	R-5M	-	S1-21	8K51 LKI-2-9	MGCh	-	-	GTsP-4	LC21	-	-	500?	1083	-
1955-S103	2435430.50	1955 Nov 19	R-5M	-	S1-22	8K51 LKI-2-10	MGCh	-	-	GTsP-4	LC21	-	-	500?	1083	-
1956-S02	2435483.50	1956 Jan 11	R-5M	-	S1-26	8K51 ZI-1 Certification	MGCh	-	-	GTsP-4	LC21	-	-	500?	1165	-
1956-S03	2435489.50	1956 Jan 17	R-5M	-	S1-27	8K51 ZI-2 Certification	MGCh	-	-	GTsP-4	LC21	-	-	500?	1165	-
1956-S04	2435493.50	1956 Jan 21	R-5M	-	S1-28	8K51 ZI-3 Certification	MGCh	-	-	GTsP-4	LC21	-	-	500?	1190	-
1956-S10	2435505.81	1956 Feb 2 0730	R-5M	-	S1-30	8K51 ZI-4 BAYKAL	MGCh	-	-	GTsP-4	LC21	-	-	500?	1190	-
1956-S05	2435509.50	1956 Feb 6	R-5M	-	S1-29	8K51 ZI-5 Certification	MGCh	-	-	GTsP-4	LC21	-	-	500?	1190	-
1956-S13	2435519.50	1956 Feb 16	R-5M	-	M-5RD S1-3	M5-RD 1	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S09	2435539.50	1956 Mar 7	R-5M	-	M-5RD A1-4	M5-RD 2	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S14	2435547.50	1956 Mar 15	R-5M	-	M-5RD A1-1	M5-RD 3	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S15	2435549.50	1956 Mar 17	R-5M	-	M-5RD A1-5	M5-RD 4	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S20	2435555.50	1956 Mar 23	R-5M	-	M-5RD S1-2	M5-RD 5	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S30	2435624.50	1956 May 31	R-5M	-	R-5R S1-1	R-5R 1	MGCh/Radio guidance test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S34	2435631.50	1956 Jun 7	R-5M	-	R-5R A1-3	R-5R 2	MGCh/Radio guidance test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S41	2435639.50	1956 Jun 15	R-5M	-	R-5R A1-4	R-5R 3	MGCh/Radio guidance test	-	-	GTsP-4	LC21	-	-	500?	1160	-
1956-S57	2435674.50	1956 Jul 20	R-5M	-	M-5RD A1-7	M5-RD 6	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1130	-
1956-S48	2435692.50	1956 Aug 7	R-5M	-	M-5RD A2-8	M5-RD 7	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1130	-
1956-S68	2435695.50	1956 Aug 10	R-5M	-	M-5RD A2-6	M5-RD 8	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1130	-
1956-S138	2435710.50	1956 Aug 25	R-5M	-	S1-10	8K51 KS-1 (Kontrolniy)	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S139	2435732.50	1956 Sep 16	R-5M	-	A1-1TS	8K51 KS-2	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S140	2435735.50	1956 Sep 19	R-5M	-	A1-2TS	8K51 KS-3	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S69	2435741.50	1956 Sep 25	R-5M	-	M-5RD A2-9	M5-RD 9	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1130	-
1956-S76	2435742.50	1956 Sep 26	R-5M	-	M-5RD A2-10	M5-RD 10	MGCh/R-7 component test	-	-	GTsP-4	LC21	-	-	500?	1130	-
1956-S148	2435780.50	1956 Nov 3	R-5M	-	A1-3TS	8K51 KS-4	MGCh	-	-	GTsP-4	LC21	-	-	500?	530	-
1956-S151	2435790.50	1956 Nov 13	R-5M	-	A1-6TS	8K51 KS-5	MGCh	-	-	GTsP-4	LC21	-	-	500?	530	-
1956-S152	2435793.50	1956 Nov 16	R-5M	-	A1-4TS	8K51 KS-6	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S153	2435801.50	1956 Nov 24	R-5M	-	A1-20	8K51 KS-7	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S154	2435813.50	1956 Dec 6	R-5M	-	A1-5TS	8K51 KS-8	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1956-S155	2435819.50	1956 Dec 12	R-5M	-	A2-20	8K51 KS-9	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S195	2435908.50	1957 Mar 11	R-5M	-	A2-12TS	8K51 ST-1 special test?	TMP-2 GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S197	2435915.50	1957 Mar 18	R-5M	-	M5-7TK	8K51 ST-2	VV GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S196	2435915.50	1957 Mar 18	R-5M	-	A2-13TS	8K51 ST-3	TMP-2 GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S198	2435918.50	1957 Mar 21	R-5M	-	A2-15TS	8K51 ST-4	TMP-2 GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S199	2435925.50	1957 Mar 28	R-5M	-	M1-20	8K51 OT-1	MGCh	Series production	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S205	2436003.50	1957 Jun 14	R-5M	-	A683-V	8K51 ST-5	Vibrator	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S207	2436017.50	1957 Jun 28	R-5M	-	M2-20T	8K51 OT-2	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S206	2436017.50	1957 Jun 28	R-5M	-	A681-V	8K51 ST-6	Vibrator	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S212	2436028.50	1957 Jul 9	R-5M	-	A2-17TS	8K51 OT-3	GCh/RUD	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S216	2436037.50	1957 Jul 18	R-5M	-	A2-16TS	8K51 OT-4	GCh/RUD	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S217	2436043.50	1957 Jul 24	R-5M	-	A2-18TS	8K51 OT-5	GCh/RUD	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S241	2436086.50	1957 Sep 5	R-5M	?	M1-1	Generator-5 No. M1-1	-	-	-	GTsP-4	LC21	-	-	500?	1152	-
1957-S242	2436093.50	1957 Sep 12	R-5M	-	A2-19TS	8K51 OT-7	TMP-2	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S243	2436095.50	1957 Sep 14	R-5M	-	A2-14TS	8K51 OT-8	TMP-2	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S267	2436107.50	1957 Sep 26	R-5M	-	M3-20	8K51 OT-9	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S268	2436145.50	1957 Nov 3	R-5M	?	M1-2	Generator-5 No. M1-2	-	-	-	GTsP-4	LC21	-	-	500?	1152	-
1957-S283	2436172.50	1957 Nov 30	R-5M	-	M4-20	8K51 OT-10	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1957-S284	2436198.50	1957 Dec 26	R-5M	?	M1-3	Generator-5 No. M1-3	-	-	-	GTsP-4	LC21	-	-	500?	1152	-
1958-S381	2436238.50	1958 Feb 4	R-5M	-	B1-20T	8K51 OT-11	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S366	2436246.50	1958 Feb 12	R-5M	-	M5-3TSK	VV GCh	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1958-S27	2436255.82	1958 Feb 21 0740	R-5A	-	A1-7	R-5A Geophysical 1	-	-	-	GTsP-4	LC21	-	-	473	1167	-
1958-S382	2436269.50	1958 Mar 7	R-5M	-	M5-5TK	8K51 OT-12	VV GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S383	2436290.50	1958 Mar 28	R-5M	-	A6-84V	8K51 OT-13	Vibrator	-	-	GTsP-4	LC21	-	-	500?	1171	-
1958-S384	2436291.50	1958 Mar 29	R-5M	-	B2-20T	8K51 OT-14	Series prod.	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S319	2436292.50	1958 Mar 30	R-5M	-	B3-20T	8K51 OT-15	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S320	2436315.50	1958 Apr 22	R-5M	-	A6-85V	8K51 OT-16	Vibrator	-	-	GTsP-4	LC21	-	-	500?	1171	-
1958-S321	2436323.50	1958 Apr 30	R-5M	-	B4-20TS	8K51 OT-17	Minsredmash flight	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S322	2436332.50	1958 May 9	R-5M	-	M5-6TK	8K51 OT-18	VV GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S323	2436339.50	1958 May 16	R-5M	-	A6-82V	8K51 OT-19	Vibrator	-	-	GTsP-4	LC21	-	-	500?	1171	-
1958-S324	2436352.50	1958 May 29	R-5M	-	B5-20T	8K51 UBP-1	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S325	2436353.50	1958 May 30	R-5M	-	M5-4TK	8K51 UBP-2	VV GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S326	2436357.50	1958 Jun 3	R-5M	-	M5-10TK	8K51 UBP-3	VV GCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S327	2436377.50	1958 Jun 23	R-5M	-	M5-8TK	8K51 UBP-4	VV GCh	-	-	GTsP-4	LC21	-	-	300?	1167	-
1958-S328	2436380.50	1958 Jun 26	R-5M	-	B6-20T	8K51 UBP-5	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S340	2436394.50	1958 Jul 10	R-5M	-	M5-1TSK	8K51 UBP-6	VV GCh	-	-	GTsP-4	LC21	-	-	500?	551	-
1958-S341	2436395.50	1958 Jul 11	R-5M	-	M5-9TSK	8K51 UBP-7	VV GCh	-	-	GTsP-4	LC21	-	-	500?	551	-
1958-S342	2436413.50	1958 Jul 29	R-5M	-	A2-2	8K51 UBP-8	No BRK-2 guidance	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S387	2436436.50	1958 Aug 21	R-5M	-	B7-20T	8K51 K	MGCh	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S172	2436442.67	1958 Aug 27 0404	R-5A	-	A1-8	R-5A Geophysical 2	IR atmos	-	-	GTsP-4	LC21	-	-	450	-	-
1958-S352	2436454.50	1958 Sep 8	R-5M	-	M3-18	8K51 UBP-9?	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S203	2436465.53	1958 Sep 19 0048	R-5A	-	A1-10	R-5A Geophysical 3	E-1 Kometa (Na test)	-	-	GTsP-4	LC21	-	-	430	-	-
1958-S361	2436469.50	1958 Sep 23	R-5M	-	M4-26	8K51 UBP-10	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S362	2436469.50	1958 Sep 23	R-5M	-	M5-2TSK	8K51 UBP-11	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S363	2436469.50	1958 Sep 23	R-5M	-	M4-17	8K51 UBP-12	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S364	2436470.50	1958 Sep 24	R-5M	-	B8-20T	8K51 UBP-13	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S241	2436508.00	1958 Oct 31 1154	R-5A	-	A1-11	R-5A Geophysical 4	IR atmos	-	-	GTsP-4	LC21	-	-	452	-	-
1958-S244	2436508.50	1958 Nov 1	R-5M	-	B9-20TS	8K51 UBP-14	GCh 4R	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S245	2436510.50	1958 Nov 3	R-5M	?	-	Nuclear test	-	-	-	GTsP-4	-	-	-	500?	-	-
1958-S246	2436510.50	1958 Nov 3	R-5M	-	M1-2 8K51D	8K51D Fakel Target 1	GCh Fakel	-	-	CHEL	LC5	-	-	500?	-	BALKH
1958-S392	2436511.50	1958 Nov 4	R-5M	-	M1-4 8K51D	8K51D Fakel Target 2	GCh Fakel NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1958-S265	2436528.76	1958 Nov 21 0608	R-5M	-	B1-1 8K52	8K52 Zvezda-1	Zvezda radio guidance	-	-	GTsP-4	LC21	-	-	460	1167	-
1958-S372	2436535.50	1958 Nov 28	R-5M	-	B1-3 8K52	8K52 Zvezda-2	Zvezda	-	-	GTsP-4	LC21	-	-	460?	1167	-
1958-S373	2436539.50	1958 Dec 2	R-5M	-	B10-20T	8K51 UBP-15	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1958-S283	2436548.50	1958 Dec 11	R-5M	-	-	8K51D Fakel Target 3	GCh Fakel NIIP-A	-	-	CHEL	LC5	-	-	500?	-	BALKH
1958-S286	2436553.50	1958 Dec 16	R-5M	-	-	8K51D Fakel Target 4	GCh Fakel NIIP-A	-	-	CHEL	LC5	-	-	500?	-	BALKH
1958-S371	2436556.50	1958 Dec 19	R-5M	-	B1-5 8K52	8K52 Zvezda-3	Zvezda	-	-	GTsP-4	LC21	-	-	460?	1167	-
1959-S301	2436601.50	1959 Feb 2	R-5M	-	B1-4 8K52	8K52 Zvezda-4	Zvezda	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S302	2436612.50	1959 Feb 13	R-5M	-	B10-17TA	8K51 UBP-16	Gotovnost-3	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S306	2436631.50	1959 Mar 4	R-5M	-	B10-16T	8K51 UBP-17	Gotovnost-1	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S307	2436633.50	1959 Mar 6	R-5M	-	B10-18TA	8K51 UBP-18	Gotovnost-1	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S308	2436633.50	1959 Mar 6	R-5M	-	B10-19TA	8K51 UBP-19	Gotovnost-3	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S420	2436665.50	1959 Apr 7	R-5M	-	I1-20TS	8K51 UBP-20	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S421	2436667.50	1959 Apr 9	R-5M	-	B1-8 8K52	8K52 Zvezda-5	Zvezda	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S423	2436672.50	1959 Apr 14	R-5M	-	B1-6 8K52	8K52 Zvezda-6	Zvezda	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S319	2436679.50	1959 Apr 21	R-5M	-	B1-2	8K51 UBP-21	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S320	2436683.50	1959 Apr 25	R-5M	-	B1-1	8K51 UBP-22	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1959-S372	2436816.50	1959 Sep 5	R-5M	-	M3-11	8K51 UBP-23	-	-	-	GTsP-4	LC21	-	-	500?	1166	-
1959-S373	2436818.50	1959 Sep 7	R-5M	-	M1-4	8K51 UBP-24	Got.-2	-	-	GTsP-4	LC21	-	-	500?	1166	-
1959-S374	2436818.50	1959 Sep 7	R-5M	-	M3-5	8K51 UBP-25	Got.-3	-	-	GTsP-4	LC21	-	-	500?	1166	-
1959-S383	2436835.50	1959 Sep 24	R-5M	-	M1-5	8K51 UBP-27	-	-	-	GTsP-4	LC21	-	-	500?	1166	-
1959-S255	2436913.50	1959 Dec 11	R-5M	-	BI1-4	8K51 PRO Target C-1	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1960-S443	2436973.50	1960 Feb 9	R-5M	-	B1-11	R-5M	GCh	-	-	GTsP-4	LC21	-	-	500?	1166	-
1960-S444	2436975.50	1960 Feb 11	R-5M	-	B7-10	R-5M	GCh	-	-	GTsP-4	LC21	-	-	500?	-	-
1960-S445	2437058.50	1960 May 4	R-5M	-	M2-7	R-5M	GCh	-	-	GTsP-4	LC21	-	-	500?	1166	-
1960-S446	2437063.50	1960 May 9	R-5M	-	M14-12	R-5M	GCh	-	-	GTsP-4	LC21	-	-	500?	1168	-
1960-S122	2437095.50	1960 Jun 10	R-5M	-	-	8K51 PRO Target C-2	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1960-S436	2437106.50	1960 Jun 21	R-5M	-	I1-2AB	8K51 UBP-28	-	-	-	GTsP-4	LC21	-	-	500?	1011	BALKH?
1960-S447	2437107.50	1960 Jun 22	R-5M	-	A2-4	R-5M	GCh	-	-	GTsP-4	LC21	-	-	500?	1166	-
1960-S438	2437108.50	1960 Jun 23	R-5M	-	A2-5	8A62 UBP?	-	-	-	GTsP-4	LC21	-	-	500?	-	BALKH
1960-S158	2437115.50	1960 Jul	R-5M	-	-	8K51 PRO Target C-3	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1960-S183	2437135.50	1960 Jul 20	R-5M	-	-	8K51 PRO Target C-4	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1960-S437	2437136.50	1960 Jul 21	R-5M	-	I-1AB	8K51 UBP-29	-	-	-	GTsP-4	LC21	-	-	500?	1011	BALKH?
1960-S489	2437164.50	1960 Aug 18	R-5M	-	M2-12	-	-	-	-	GTsP-4	-	-	-	500?	1166	BALKH?
1960-S490	2437172.50	1960 Aug 26	R-5M	-	M2-3	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1960-S491	2437178.50	1960 Sep 1	R-5M	-	M2-9	-	-	-	-	GTsP-4	-	-	-	500?	1168	-
1960-S492	2437186.50	1960 Sep 9	R-5M	-	M1-9	-	-	-	-	GTsP-4	-	-	-	500?	1166	-
1960-S493	2437199.50	1960 Sep 22	R-5M	-	M1-7	-	-	-	-	GTsP-4	-	-	-	500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S494	2437201.50	1960 Sep 24	R-5M	-	M1-12	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1960-S495	2437221.50	1960 Oct 14	R-5A	?	M11-TG	-	-	-	-	GTsP-4	-	-	-	183	-	-
1960-S349	2437243.53	1960 Nov 5 0042	R-5M	-	I1-6	8A62 PRO Target C-1	NIIP-A Target	-	-	CHEL	LC5	-	-	300?	500	(BALKH)
1960-S368	2437255.50	1960 Nov 17	R-5M	-	-	8K51 PRO Target C-5	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1960-S380	2437262.50	1960 Nov 24	R-5M	-	I1-3	8K51 PRO Target C-6	NIIP-A Target	-	-	CHEL	LC5	-	-	0?	-	(BALKH)
1960-S395	2437276.50	1960 Dec 8	R-5M	-	I1-1	8A62 PRO Target C-2	V-1000 Target	-	-	CHEL	LC5	-	-	0?	-	(BALKH)
1960-S398	2437278.50	1960 Dec 10	R-5M	-	I1-2	8A62 PRO Target C-3	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1960-S414	2437285.50	1960 Dec 17	R-5M	-	I1-8	8A62 PRO Target C-4	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1960-S420	2437290.50	1960 Dec 22	R-5M	-	I1-7	8A62 PRO Target C-5	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1960-S422	2437291.50	1960 Dec 23	R-5M	-	I1-9	8A62 PRO Target C-6	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1960-S429	2437299.50	1960 Dec 31	R-5M	-	I1-11	8A62 PRO Target C-7	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S530	2437304.50	1961 Jan 5	R-5M	-	M2-2	-	-	-	-	GTsP-4	-	-	-	500?	1167	-
1961-S531	2437308.50	1961 Jan 9	R-5M	-	M1-17	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S17	2437312.50	1961 Jan 13	R-5M	-	I1-12	8A62 PRO Target C-8	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S19	2437313.50	1961 Jan 14	R-5M	-	I1-10	8A62 PRO Target C-9	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S54	2437348.50	1961 Feb 18	R-5M	-	B1-09	8A62 PRO Target C-10	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S57	2437352.50	1961 Feb 22	R-5M	-	B1-14	8A62 PRO Target C-11	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S532	2437365.50	1961 Mar 7	R-5M	-	B1-19	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S533	2437366.50	1961 Mar 8	R-5M	-	M1-1	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S534	2437383.50	1961 Mar 25	R-5M	-	B1-12	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S91	2437384.50	1961 Mar 26	R-5M	-	B1-10TA	8A62 PRO Target C-12	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S467	2437397.50	1961 Apr 8	R-5	-	V-1000 target	8A62 PRO Target C-13	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S468	2437401.50	1961 Apr 12	R-5	-	V-1000 target	8A62 PRO Target C-14	V-1000 Target	-	-	CHEL	LC5	-	-	300?	-	BALKH
1961-S535	2437483.50	1961 Jul 3	R-5M	-	I1-7	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S536	2437484.50	1961 Jul 4	R-5M	-	I1-3	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S537	2437494.50	1961 Jul 14	R-5M	-	A2-10TA	-	-	-	-	GTsP-4	-	-	-	500?	1167	-
1961-S209	2437508.50	1961 Jul 28	R-5M	-	M1-16	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S210	2437511.50	1961 Jul 31	R-5M	-	M1-11	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S233	2437515.50	1961 Aug 4	R-5M	-	-	8K51 UBP-30 (39 RD)	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S469	2437522.50	1961 Aug 11	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S470	2437522.50	1961 Aug 11	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S234	2437524.50	1961 Aug 13	R-5M	-	-	8K51 UBP-31 (39 RD)	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S246	2437527.50	1961 Aug 16	R-5M	-	A2-7TA	8K51 UBP-32	-	-	-	GTsP-4	LC21	-	-	500?	1167	-
1961-S247	2437528.50	1961 Aug 17	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S471	2437528.50	1961 Aug 17	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S250	2437533.50	1961 Aug 22	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	100?	-	-
1961-S251	2437533.50	1961 Aug 22	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S254	2437535.50	1961 Aug 24	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S255	2437536.50	1961 Aug 25	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S256	2437536.50	1961 Aug 25	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S267	2437548.50	1961 Sep 6	R-5M	?	-	8K51 Nuclear Test	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S538	2437564.50	1961 Sep 22	R-5M	-	B4-2	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-S539	2437565.50	1961 Sep 23	R-5M	-	B4-3	-	-	-	-	GTsP-4	-	-	-	500?	-	-
1961-A391	2437569.50	1961 Sep 27	R-5A	?	M1-2TG	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1961-A392	2437572.50	1961 Sep 30	R-5A	?	M1-3TG	-	-	-	-	GTsP-4	-	-	-	50?	-	-
1961-S319	2437576.50	1961 Oct 4	R-5	-	-	8A62 PRO Target C-15	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S323	2437578.50	1961 Oct 6	R-5M	-	-	8K51 Nuclear Test	GROM	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S339	2437593.50	1961 Oct 21	R-5A	-	No. 3	8A62 Geophysical?	GROM	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S340	2437593.50	1961 Oct 21	R-5A	-	No. 4	R-5A Geophysical	GROM	-	-	GTsP-4	LC21	-	-	430	-	-
1961-S342	2437594.50	1961 Oct 22	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S344	2437595.50	1961 Oct 23	R-5	-	-	8A62 PRO Target C-16	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S345	2437596.50	1961 Oct 24	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S349	2437597.50	1961 Oct 25	R-5	?	UNK	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	100?	-	-
1961-S351	2437598.50	1961 Oct 26	R-5	?	-	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	100?	-	-
1961-S359	2437600.50	1961 Oct 28	R-5	-	-	8A62 D04B	-	-	-	GTsP-4	LC21	-	-	500?	-	-
1961-S377	2437619.04	1961 Nov 15 1300	R-5A	-	-	8A62 Geophysical	-	-	-	GTsP-4	LC21	-	-	430	-	-
1961-S436	2437656.50	1961 Dec 23	R-5	-	-	8A62 PRO Target C-17	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S540	2437658.50	1961 Dec 25	R-5M	-	A2-11TA	-	-	-	-	GTsP-4	-	-	-	500?	1010	-
1961-S437	2437659.50	1961 Dec 26	R-5	-	A2-6TA	8A62 PRO Target C-18	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S438	2437659.50	1961 Dec 26	R-5	-	A2-9TA	8A62 PRO Target C-19	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S443	2437662.50	1961 Dec 29	R-5	-	A1-17TA	8A62 PRO Target C-20	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S444	2437663.50	1961 Dec 30	R-5	-	M1-3	8A62 PRO Target C-21	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1961-S446	2437664.50	1961 Dec 31	R-5	-	M1-6	8A62 PRO Target C-22	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1962-S79	2437751.50	1962 Mar 28	R-5	-	-	8A62 PRO Target C-23	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1962-S93	2437765.50	1962 Apr 11	R-5	-	-	8A62 PRO Target C-24	NIIP-A Target	-	-	CHEL	LC5	-	-	500?	-	BALKH
1962-S400	2437955.50	1962 Oct 18	R-5B	-	-	R-5B Geophysical	-	-	-	GTsP-4	-	-	-	508	-	-
1962-S410	2437958.50	1962 Oct 21?	R-5B	-	-	8A62 Geophysical	RAO?	-	-	GTsP-4	-	-	-	500?	-	-
1963-S263	2438186.52	1963 Jun 6 0030	R-5B	-	-	R-5B Geophysical	VAO	-	-	GTsP-4	-	-	-	500	-	-
1963-S283	2438198.52	1963 Jun 18 0030	R-5B	-	-	R-5B Geophysical	VAO	-	-	GTsP-4	-	-	-	500	-	-
1963-S331	2438216.52	1963 Jul 6 0036	R-5B	-	-	R-5B Geophysical	-	-	-	GTsP-4	-	-	-	400	-	-
1963-S515	2438327.50	1963 Oct 25	R-5B	-	-	R-5B Geophysical	VAO	-	-	GTsP-4	-	-	-	500?	-	-
1963-S615	2438387.50	1963 Dec 24	R-5B	-	-	R-5B Geophysical?	VAO	-	-	GTsP-4	-	-	-	500?	-	-
1964-S816	2438551.50	1964 Jun 5	R-5M	-	-	8K51 29 RD UBP-1	-	-	-	GTsP-4	-	-	-	500?	-	-
1964-S817	2438551.50	1964 Jun 5	R-5M	-	-	8K51 29 RD UBP-2	-	-	-	GTsP-4	-	-	-	500?	-	-
1964-S487	2438664.66	1964 Sep 26 0350	R-5V	-	1?	R-5 Geophysical	VAO	-	-	GTsP-4	LC84	-	-	500?	-	-
1964-S818	2438680.50	1964 Oct 12	R-5M	-	-	8K51 29 RD UBP-3	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S244	2438872.50	1965 Apr 22	R-5M	-	-	8K51 29 RD UBP-4	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S249	2438874.50	1965 Apr 24	R-5M	-	-	8K51 29 RD UBP-5	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S253	2438877.09	1965 Apr 26 1413	R-5M	-	-	8K51 29 RD UBP-6	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S308	2438905.50	1965 May 25	R-5M	-	-	8K51 29 RD UBP-7	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S313	2438906.50	1965 May 26	R-5M	-	-	8K51 29 RD UBP-8	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S503	2439023.64	1965 Sep 20 0327	R-5V	-	2?	R-5V Geophysical	VAO	-	-	GTsP-4	-	-	-	480	-	-
1965-S804	2439027.50	1965 Sep 24	R-5M	-	-	8K51 29 RD UBP-8	-	-	-	GTsP-4	-	-	-	500?	-	-
1965-S536	2439034.66	1965 Oct 1 0357	R-5V	-	3?	R-5V Geophysical	VAO	-	-	GTsP-4	-	-	-	480	-	-
1965-S549	2439046.50	1965 Oct 13	R-5V	-	4?	R-5V Geophysical	VAO	-	-	GTsP-4	-	-	-	500?	-	-
1970-S335	2440703.59	1970 Apr 27 0215	R-5V	-	5	R-5V Geophysical	RAO	-	-	GTsP-4	LC84/1	-	-	500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S358	2440722.60	1970 May 16 0230	R-5V	-	6	R-5V Geophysical	RAO K-2 No. 1	-	-	GTsP-4	LC84/1	-	-	500?	-	-
1970-S550	2440862.68	1970 Oct 3 0420	R-5V	-	7?	R-5V Geophysical	RAO K-2 No. 2	-	-	GTsP-4	LC84/1	-	-	500	-	-
1970-S629	2440918.73	1970 Nov 28 0530	R-5V	-	8?	Vertikal'-1	RAO/VZAF	-	-	GTsP-4	LC84/1	-	-	468	-	-
1971-S397	2441183.64	1971 Aug 20 0320	R-5V	-	9?	Vertikal'-2	RAO/VZAF	-	-	GTsP-4	LC84/1	-	-	463	-	-
1971-S469	2441218.66	1971 Sep 24 0345	R-5V	-	10?	R-5V Geophysical	RAO	-	-	GTsP-4	LC84/1	-	-	100?	-	-
1971-S517	2441234.25	1971 Oct 9 1802	R-5V	-	11?	R-5V Geophysical	-	-	-	GTsP-4	LC84/1	-	-	500?	-	-
1975-S225	2442608.65	1975 Jul 15 0335	R-5V	-	-	R-5V Geophysical	-	-	-	GTsP-4	-	-	-	503	-	-
1978-S336	2443842.50	1978 Dec	R-5V	?	-	R-5V Geophysical	Vol't	-	-	GTsP-4	-	-	-	380	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A118	2434451.50	1953 Mar 15	R-5	-	-	0.000	GAU4	MF	U	-	Test	Delo	Z10	-
1953-A125	2434454.50	1953 Mar 18	R-5	-	-	0.000	GAU4	MF	U	-	Test	Delo	Z10	-
1953-S09	2434469.50	1953 Apr 2	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-A162	2434475.50	1953 Apr 8	R-5	-	-	0.000	UZKA	MF	U	-	Test	Delo	Z10	-
1953-S08	2434486.50	1953 Apr 19	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S15	2434491.50	1953 Apr 24	R-5	-	-	0.000	UZKA	MF	U	-	Test	Z10	Delo	-
1953-S16	2434510.50	1953 May 13	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S20	2434520.50	1953 May 23	R-5	-	-	0.000	UZKA	MS	-	-	Test	Delo	Z10	-
1953-S50	2434680.50	1953 Oct 30	R-5	-	-	0.000	UZKA	MS	-	-	Test	Delo	Z10	-
1953-S51	2434684.50	1953 Nov 3	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S52	2434698.50	1953 Nov 17	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S53	2434702.50	1953 Nov 21	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S54	2434707.50	1953 Nov 26	R-5	-	-	0.000	UZKA	MF	U	-	Test	Z10	Delo	-
1953-S67	2434716.50	1953 Dec 5	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1953-S69	2434720.50	1953 Dec 9	R-5	-	-	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S63	2434966.50	1954 Aug 12	R-5	-	K3-1	0.000	UZKA	MF	U	-	Test	Z10	Delo	-
1954-S59	2434971.50	1954 Aug 17	R-5	-	K3-2	0.000	UZKA	MS	-	-	Test	Z10	Delo	Flew long
1954-S60	2434973.50	1954 Aug 19	R-5	-	K3-3	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S67	2434978.50	1954 Aug 24	R-5	-	K3-4	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S68	2434979.50	1954 Aug 25	R-5	-	K3-5	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S69	2434990.50	1954 Sep 5	R-5	-	K3-11	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S73	2434993.50	1954 Sep 8	R-5	-	K3-7	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S74	2435024.50	1954 Oct 9	R-5	-	K3-9	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S75	2435034.50	1954 Oct 19	R-5	-	K3-6	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1954-S80	2435106.50	1954 Dec 30	R-5	-	K3-10	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S02	2435113.50	1955 Jan 6	R-5	-	K3-13	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S03	2435115.50	1955 Jan 8	R-5	-	K3-12	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S04	2435124.50	1955 Jan 17	R-5	-	K3-14	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S05	2435127.50	1955 Jan 20	R-5M	-	S1-2	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S116	2435128.50	1955 Jan 21	R-5	-	K3-17	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S117	2435129.50	1955 Jan 22	R-5	-	K3-18	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S118	2435132.50	1955 Jan 25	R-5	-	K3-19	0.000	UZKA	MF	U	-	Test	Z10	Delo	-
1955-S119	2435136.50	1955 Jan 29	R-5	-	K3-20	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S21	2435139.50	1955 Feb 1	R-5	-	K3-15	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S16	2435145.50	1955 Feb 7	R-5	-	K3-8	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S11	2435147.50	1955 Feb 9	R-5M	-	S1-3	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S12	2435152.50	1955 Feb 14	R-5M	-	S1-4	0.000	UZKA	MS	-	-	Test	Z10	Delo	-
1955-S20	2435226.50	1955 Apr 29	R-5M	-	S1-5	0.000	UNRV	MF	U	-	Test	Z10	Delo	-
1955-S36	2435247.50	1955 May 20	R-5M	-	S1-6	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S37	2435253.50	1955 May 26	R-5M	-	S1-1	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S43	2435264.50	1955 Jun 6	R-5M	-	S1-7	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S165	2435273.50	1955 Jun 15	R-5M	-	S1-10	0.000	UNRV	MS	-	-	Test	Z10	RPCB	-
1955-S46	2435280.50	1955 Jun 22	R-5M	-	S1-9	0.000	UNRV	MS	-	-	Test	Delo	Z10	-
1955-S47	2435281.50	1955 Jun 23	R-5M	-	S1-12	0.000	UNRV	MS	-	-	Test	Delo	Z10	-
1955-S53	2435286.50	1955 Jun 28	R-5M	-	S1-11	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S24	2435288.50	1955 Jun 30	R-5M	-	S1-8	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S25	2435295.50	1955 Jul 7	R-5M	-	S1-13	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S56	2435297.50	1955 Jul 9	R-5M	-	S1-14	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S64	2435328.50	1955 Aug 9	R-5M	-	S1-18	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S61	2435331.50	1955 Aug 12	R-5M	-	S1-17	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S67	2435335.50	1955 Aug 16	R-5M	-	S1-16	0.000	UNRV	MF	U	-	Test	Z10	Delo	-
1955-S68	2435369.50	1955 Sep 19	R-5M	-	S1-20	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S69	2435373.50	1955 Sep 23	R-5M	-	S1-19	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S85	2435377.50	1955 Sep 27	R-5M	-	S1-24	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S86	2435381.50	1955 Oct 1	R-5M	-	S1-25	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S98	2435412.50	1955 Nov 1	R-5M	-	S1-23	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S99	2435415.50	1955 Nov 4	R-5M	-	S1-21	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S103	2435430.50	1955 Nov 19	R-5M	-	S1-22	0.000	UNRV	MS	-	-	Test	Delo	Z10	-
1956-S02	2435483.50	1956 Jan 11	R-5M	-	S1-26	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1956-S03	2435489.50	1956 Jan 17	R-5M	-	S1-27	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1956-S04	2435493.50	1956 Jan 21	R-5M	-	S1-28	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1956-S10	2435505.81	1956 Feb 2 0730	R-5M	-	S1-30	0.000	MVS	MS	-	-	Nuclear Test	Z10	Chertok3	-
1956-S05	2435509.50	1956 Feb 6	R-5M	-	S1-29	0.000	UNRV	MS	-	-	Test	Z10	Siddiqi	-
1956-S13	2435519.50	1956 Feb 16	R-5M	-	M-5RD S1-3	0.000	MVS	MS	-	-	Test	Siddiqi	Z10	-
1956-S09	2435539.50	1956 Mar 7	R-5M	-	M-5RD A1-4	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S14	2435547.50	1956 Mar 15	R-5M	-	M-5RD A1-1	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S15	2435549.50	1956 Mar 17	R-5M	-	M-5RD A1-5	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S20	2435555.50	1956 Mar 23	R-5M	-	M-5RD S1-2	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S30	2435624.50	1956 May 31	R-5M	-	R-5R S1-1	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S34	2435631.50	1956 Jun 7	R-5M	-	R-5R A1-3	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S41	2435639.50	1956 Jun 15	R-5M	-	R-5R A1-4	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S57	2435674.50	1956 Jul 20	R-5M	-	M-5RD A1-7	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S48	2435692.50	1956 Aug 7	R-5M	-	M-5RD A2-8	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S68	2435695.50	1956 Aug 10	R-5M	-	M-5RD A2-6	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S138	2435710.50	1956 Aug 25	R-5M	-	S1-10	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S139	2435732.50	1956 Sep 16	R-5M	-	A1-1TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S140	2435735.50	1956 Sep 19	R-5M	-	A1-2TS	0.000	UNRV	MS	-	-	Test	Z10	-	[Not in BMLX]
1956-S69	2435741.50	1956 Sep 25	R-5M	-	M-5RD A2-9	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S76	2435742.50	1956 Sep 26	R-5M	-	M-5RD A2-10	0.000	MVS	MS	-	-	Test	Z10	Siddiqi	-
1956-S148	2435780.50	1956 Nov 3	R-5M	-	A1-3TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S151	2435790.50	1956 Nov 13	R-5M	-	A1-6TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S152	2435793.50	1956 Nov 16	R-5M	-	A1-4TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S153	2435801.50	1956 Nov 24	R-5M	-	A1-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S154	2435813.50	1956 Dec 6	R-5M	-	A1-5TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S155	2435819.50	1956 Dec 12	R-5M	-	A2-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S195	2435908.50	1957 Mar 11	R-5M	-	A2-12TS	0.000	UNRV	MS	-	-	Test	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S197	2435915.50	1957 Mar 18	R-5M	-	M5-7TK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S196	2435915.50	1957 Mar 18	R-5M	-	A2-13TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S198	2435918.50	1957 Mar 21	R-5M	-	A2-15TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S199	2435925.50	1957 Mar 28	R-5M	-	M1-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S205	2436003.50	1957 Jun 14	R-5M	-	A683-V	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S207	2436017.50	1957 Jun 28	R-5M	-	M2-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S206	2436017.50	1957 Jun 28	R-5M	-	A681-V	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S212	2436028.50	1957 Jul 9	R-5M	-	A2-17TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S216	2436037.50	1957 Jul 18	R-5M	-	A2-16TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S217	2436043.50	1957 Jul 24	R-5M	-	A2-18TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S241	2436086.50	1957 Sep 5	R-5M	?	M1-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S242	2436093.50	1957 Sep 12	R-5M	-	A2-19TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S243	2436095.50	1957 Sep 14	R-5M	-	A2-14TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S267	2436107.50	1957 Sep 26	R-5M	-	M3-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S268	2436145.50	1957 Nov 3	R-5M	?	M1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S283	2436172.50	1957 Nov 30	R-5M	-	M4-20	0.000	UNRV	MS	-	-	Test	Z10	-	-
1957-S284	2436198.50	1957 Dec 26	R-5M	?	M1-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S381	2436238.50	1958 Feb 4	R-5M	-	B1-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S366	2436246.50	1958 Feb 12	R-5M	-	M5-3TSK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S27	2436255.82	1958 Feb 21 0740	R-5A	-	A1-7	0.000	AN	SS	-	AN/	Ionos/Solar UV/Met	WDCRF	SR5,1112/Z10	-
1958-S382	2436269.50	1958 Mar 7	R-5M	-	M5-5TK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S383	2436290.50	1958 Mar 28	R-5M	-	A6-84V	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S384	2436291.50	1958 Mar 29	R-5M	-	B2-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S319	2436292.50	1958 Mar 30	R-5M	-	B3-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S320	2436315.50	1958 Apr 22	R-5M	-	A6-85V	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S321	2436323.50	1958 Apr 30	R-5M	-	B4-20TS	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S322	2436332.50	1958 May 9	R-5M	-	M5-6TK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S323	2436339.50	1958 May 16	R-5M	-	A6-82V	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S324	2436352.50	1958 May 29	R-5M	-	B5-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S325	2436353.50	1958 May 30	R-5M	-	M5-4TK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S326	2436357.50	1958 Jun 3	R-5M	-	M5-10TK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S327	2436377.50	1958 Jun 23	R-5M	-	M5-8TK	0.000	UNRV	MF	U	-	Test	Z10	-	-
1958-S328	2436380.50	1958 Jun 26	R-5M	-	B6-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S340	2436394.50	1958 Jul 10	R-5M	-	M5-1TSK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S341	2436395.50	1958 Jul 11	R-5M	-	M5-9TSK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S342	2436413.50	1958 Jul 29	R-5M	-	A2-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S387	2436436.50	1958 Aug 21	R-5M	-	B7-20T	0.000	UNRV	MS	-	-	Test	RML	-	-
1958-S172	2436442.67	1958 Aug 27 0404	R-5A	-	A1-8	0.000	AN	SS	-	AN/	Aeron/Ionos/Bio	IGY36	SR5,1112	[or 1240]
1958-S352	2436454.50	1958 Sep 8	R-5M	-	M3-18	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S203	2436465.53	1958 Sep 19 0048	R-5A	-	A1-10	0.000	AN	SS	-	AN/	Aeron/Ionos/Meteori	IGY36	Z10	-
1958-S361	2436469.50	1958 Sep 23	R-5M	-	M4-26	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S362	2436469.50	1958 Sep 23	R-5M	-	M5-2TSK	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S363	2436469.50	1958 Sep 23	R-5M	-	M4-17	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S364	2436470.50	1958 Sep 24	R-5M	-	B8-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S241	2436508.00	1958 Oct 31 1154	R-5A	-	A1-11	0.000	AN	SS	-	AN/	Iono-solar/Bio	IGY36	Z10	-
1958-S244	2436508.50	1958 Nov 1	R-5M	-	B9-20TS	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	Z10	-
1958-S245	2436510.50	1958 Nov 3	R-5M	?	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1958-S246	2436510.50	1958 Nov 3	R-5M	-	M1-2 8K51D	0.000	RVSN	MS	-	-	Target	Z10	MS5-65	-
1958-S392	2436511.50	1958 Nov 4	R-5M	-	M1-4 8K51D	0.000	RVSN	MS	-	-	Target	Z10	MS5-65	-
1958-S265	2436528.76	1958 Nov 21 0608	R-5M	-	B1-1 8K52	0.000	RVSN	SS	-	AN/	Ionos	JCM	Z10	-
1958-S372	2436535.50	1958 Nov 28	R-5M	-	B1-3 8K52	0.000	RVSN	SS	-	AN/	Ionos	Z10	-	-
1958-S373	2436539.50	1958 Dec 2	R-5M	-	B10-20T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1958-S283	2436548.50	1958 Dec 11	R-5M	-	-	0.000	RVSN	MS	-	-	Target	Z10	MS5-65	-
1958-S286	2436553.50	1958 Dec 16	R-5M	-	-	0.000	RVSN	MS	-	-	Target	BMLX	MS5-65	-
1958-S371	2436556.50	1958 Dec 19	R-5M	-	B1-5 8K52	0.000	RVSN	SS	-	AN/	Ionos	Z10	-	-
1959-S301	2436601.50	1959 Feb 2	R-5M	-	B1-4 8K52	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S302	2436612.50	1959 Feb 13	R-5M	-	B10-17TA	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S306	2436631.50	1959 Mar 4	R-5M	-	B10-16T	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S307	2436633.50	1959 Mar 6	R-5M	-	B10-18TA	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S308	2436633.50	1959 Mar 6	R-5M	-	B10-19TA	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S420	2436665.50	1959 Apr 7	R-5M	-	I1-20TS	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S421	2436667.50	1959 Apr 9	R-5M	-	B1-8 8K52	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S423	2436672.50	1959 Apr 14	R-5M	-	B1-6 8K52	0.000	RVSN	MS	-	-	Test	Z10	-	-
1959-S319	2436679.50	1959 Apr 21	R-5M	-	B1-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S320	2436683.50	1959 Apr 25	R-5M	-	B1-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S372	2436816.50	1959 Sep 5	R-5M	-	M3-11	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S373	2436818.50	1959 Sep 7	R-5M	-	M1-4	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S374	2436818.50	1959 Sep 7	R-5M	-	M3-5	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S383	2436835.50	1959 Sep 24	R-5M	-	M1-5	0.000	UNRV	MS	-	-	Test	Z10	-	-
1959-S255	2436913.50	1959 Dec 11	R-5M	-	BI1-4	0.000	RVSN	MS	-	-	Target	Z10	MS5-65	-
1960-S443	2436973.50	1960 Feb 9	R-5M	-	B1-11	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S444	2436975.50	1960 Feb 11	R-5M	-	B7-10	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S445	2437058.50	1960 May 4	R-5M	-	M2-7	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S446	2437063.50	1960 May 9	R-5M	-	M14-12	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S122	2437095.50	1960 Jun 10	R-5M	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1960-S436	2437106.50	1960 Jun 21	R-5M	-	I1-2AB	0.000	UNRV	MS	-	-	Test	BMLX	Z20	-
1960-S447	2437107.50	1960 Jun 22	R-5M	-	A2-4	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S438	2437108.50	1960 Jun 23	R-5M	-	A2-5	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S158	2437115.50	1960 Jul	R-5M	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1960-S183	2437135.50	1960 Jul 20	R-5M	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1960-S437	2437136.50	1960 Jul 21	R-5M	-	I-1AB	0.000	UNRV	MS	-	-	Test	BMLX	-	-
1960-S489	2437164.50	1960 Aug 18	R-5M	-	M2-12	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S490	2437172.50	1960 Aug 26	R-5M	-	M2-3	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S491	2437178.50	1960 Sep 1	R-5M	-	M2-9	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S492	2437186.50	1960 Sep 9	R-5M	-	M1-9	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S493	2437199.50	1960 Sep 22	R-5M	-	M1-7	0.000	UNRV	MS	-	-	Test	Z20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S494	2437201.50	1960 Sep 24	R-5M	-	M1-12	0.000	UNRV	MS	-	-	Test	Z20	-	-
1960-S495	2437221.50	1960 Oct 14	R-5A	?	M11-TG	0.000	UNRV	MF	U	-	Sci?	Z20	-	-
1960-S349	2437243.53	1960 Nov 5 0042	R-5M	-	I1-6	0.000	SKB30	MF	U	-	Target	Z20	MS5-65	-
1960-S368	2437255.50	1960 Nov 17	R-5M	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1960-S380	2437262.50	1960 Nov 24	R-5M	-	I1-3	0.000	RVSN	MF	U	-	Target	MS5-65	-	-
1960-S395	2437276.50	1960 Dec 8	R-5M	-	I1-1	0.000	SKB30	MF	U	-	Target	VSA070	-	-
1960-S398	2437278.50	1960 Dec 10	R-5M	-	I1-2	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1960-S414	2437285.50	1960 Dec 17	R-5M	-	I1-8	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1960-S420	2437290.50	1960 Dec 22	R-5M	-	I1-7	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1960-S422	2437291.50	1960 Dec 23	R-5M	-	I1-9	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1960-S429	2437299.50	1960 Dec 31	R-5M	-	I1-11	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S530	2437304.50	1961 Jan 5	R-5M	-	M2-2	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S531	2437308.50	1961 Jan 9	R-5M	-	M1-17	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S17	2437312.50	1961 Jan 13	R-5M	-	I1-12	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S19	2437313.50	1961 Jan 14	R-5M	-	I1-10	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S54	2437348.50	1961 Feb 18	R-5M	-	B1-09	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S57	2437352.50	1961 Feb 22	R-5M	-	B1-14	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S532	2437365.50	1961 Mar 7	R-5M	-	B1-19	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S533	2437366.50	1961 Mar 8	R-5M	-	M1-1	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S534	2437383.50	1961 Mar 25	R-5M	-	B1-12	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S91	2437384.50	1961 Mar 26	R-5M	-	B1-10TA	0.000	SKB30	MS	-	-	Target	VSA070	MS5-65	-
1961-S467	2437397.50	1961 Apr 8	R-5	-	V-1000 target	0.000	SKB30	MS	-	-	Target	BMLX	-	-
1961-S468	2437401.50	1961 Apr 12	R-5	-	V-1000 target	0.000	SKB30	MS	-	-	Target	BMLX	-	-
1961-S535	2437483.50	1961 Jul 3	R-5M	-	I1-7	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S536	2437484.50	1961 Jul 4	R-5M	-	I1-3	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S537	2437494.50	1961 Jul 14	R-5M	-	A2-10TA	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S209	2437508.50	1961 Jul 28	R-5M	-	M1-16	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S210	2437511.50	1961 Jul 31	R-5M	-	M1-11	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S233	2437515.50	1961 Aug 4	R-5M	-	-	0.000	UNRV	MS	-	-	Test	BMLX	-	-
1961-S469	2437522.50	1961 Aug 11	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	BMLX	-	-
1961-S470	2437522.50	1961 Aug 11	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	BMLX	-	-
1961-S234	2437524.50	1961 Aug 13	R-5M	-	-	0.000	UNRV	MS	-	-	Test	BMLX	-	-
1961-S246	2437527.50	1961 Aug 16	R-5M	-	A2-7TA	0.000	UNRV	MS	-	-	Test	BMLX	-	-
1961-S247	2437528.50	1961 Aug 17	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S471	2437528.50	1961 Aug 17	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	BMLX	-	-
1961-S250	2437533.50	1961 Aug 22	R-5	?	UNK	0.000	RVSN	MF	U	-	Target	MS5-65	-	-
1961-S251	2437533.50	1961 Aug 22	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S254	2437535.50	1961 Aug 24	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S255	2437536.50	1961 Aug 25	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S256	2437536.50	1961 Aug 25	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S267	2437548.50	1961 Sep 6	R-5M	?	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S538	2437564.50	1961 Sep 22	R-5M	-	B4-2	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S539	2437565.50	1961 Sep 23	R-5M	-	B4-3	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-A391	2437569.50	1961 Sep 27	R-5A	?	M1-2TG	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-A392	2437572.50	1961 Sep 30	R-5A	?	M1-3TG	0.000	UNRV	MS	-	-	Test	Z20	-	-
1961-S319	2437576.50	1961 Oct 4	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S323	2437578.50	1961 Oct 6	R-5M	-	-	0.000	RVSN	MS	-	-	Nuclear Test	Podvig	-	-
1961-S339	2437593.50	1961 Oct 21	R-5A	-	No. 3	0.000	RVSN	SS	-	AN/	Aeron?	RML	-	-
1961-S340	2437593.50	1961 Oct 21	R-5A	-	No. 4	0.000	RVSN	SS	-	AN/	Aeron?	RML	-	-
1961-S342	2437594.50	1961 Oct 22	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S344	2437595.50	1961 Oct 23	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S345	2437596.50	1961 Oct 24	R-5	?	UNK	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S349	2437597.50	1961 Oct 25	R-5	?	UNK	0.000	RVSN	MF	U	-	Target	MS5-65	-	-
1961-S351	2437598.50	1961 Oct 26	R-5	?	-	0.000	RVSN	MF	U	-	Target	MS5-65	-	-
1961-S359	2437600.50	1961 Oct 28	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S377	2437619.04	1961 Nov 15 1300	R-5A	-	-	0.000	AN	SS	-	AN/	Aeron/Ionos/Fields	SR-VII-1167	WDCRF	-
1961-S436	2437656.50	1961 Dec 23	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S540	2437658.50	1961 Dec 25	R-5M	-	A2-11TA	0.000	RVSN	MS	-	-	Test	Z20	-	-
1961-S437	2437659.50	1961 Dec 26	R-5	-	A2-6TA	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S438	2437659.50	1961 Dec 26	R-5	-	A2-9TA	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S443	2437662.50	1961 Dec 29	R-5	-	A1-17TA	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1961-S444	2437663.50	1961 Dec 30	R-5	-	M1-3	0.000	RVSN	MS	-	-	Target	Z20	MS5-65	-
1961-S446	2437664.50	1961 Dec 31	R-5	-	M1-6	0.000	RVSN	MS	-	-	Target	Z20	MS5-65	-
1962-S79	2437751.50	1962 Mar 28	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1962-S93	2437765.50	1962 Apr 11	R-5	-	-	0.000	RVSN	MS	-	-	Target	MS5-65	-	-
1962-S400	2437955.50	1962 Oct 18	R-5B	-	-	0.000	AN	SS	-	AN/	Ionos	WDCRF	SR5,1112	-
1962-S410	2437958.50	1962 Oct 21?	R-5B	-	-	0.000	AN	SS	-	AN/	Aeron?	BMLX	-	-
1963-S263	2438186.52	1963 Jun 6 0030	R-5B	-	-	0.000	AN	SS	-	AN/	Ionos/Plasma	SR5,1112	AASH9-191/SR5,595	-
1963-S283	2438198.52	1963 Jun 18 0030	R-5B	-	-	0.000	AN	SS	-	AN/	Aeron/Ionos	WDCRF	AASH9-191/SR5,1112	-
1963-S331	2438216.52	1963 Jul 6 0036	R-5B	-	-	0.000	AN	SS	-	AN/	Aeron	WDCRF	-	-
1963-S515	2438327.50	1963 Oct 25	R-5B	-	-	0.000	AN	SS	-	AN/	Aeron	AASH9-191	SR5,595	Or MGCh?
1963-S615	2438387.50	1963 Dec 24	R-5B	-	-	0.000	AN	SS	-	AN/	Aeron	AASH9-191	SR5,595	-
1964-S816	2438551.50	1964 Jun 5	R-5M	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1964-S817	2438551.50	1964 Jun 5	R-5M	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1964-S487	2438664.66	1964 Sep 26 0350	R-5V	-	1?	0.000	RVSN	SF	U	AN/	Ionos?	Siddiqi	-	-
1964-S818	2438680.50	1964 Oct 12	R-5M	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1965-S244	2438872.50	1965 Apr 22	R-5M	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	BMLX	-
1965-S249	2438874.50	1965 Apr 24	R-5M	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	BMLX	-
1965-S253	2438877.09	1965 Apr 26 1413	R-5M	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	BMLX	-
1965-S308	2438905.50	1965 May 25	R-5M	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	BMLX	-
1965-S313	2438906.50	1965 May 26	R-5M	-	-	0.000	RVSN	MS	-	-	OT	MS5-65	BMLX	-
1965-S503	2439023.64	1965 Sep 20 0327	R-5V	-	2?	0.000	AN	SS	-	AN/	Test/Ionos/Solar X	WDCRF	AASH9-191	-
1965-S804	2439027.50	1965 Sep 24	R-5M	-	-	0.000	RVSN	MS	-	-	OT	RML	MS5-65	-
1965-S536	2439034.66	1965 Oct 1 0357	R-5V	-	3?	0.000	AN	SS	-	AN/	Ionos/Solar X	WDCRF	AASH9-191	-
1965-S549	2439046.50	1965 Oct 13	R-5V	-	4?	0.000	AN	SS	-	AN/	Ionos?	Delo	-	-
1970-S335	2440703.59	1970 Apr 27 0215	R-5V	-	5	0.000	AN	SS	-	AN/	Solar?	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S358	2440722.60	1970 May 16 0230	R-5V	-	6	0.000	AN	SF	U	AN/	Solar X	garni-cosmos.com	-	-
1970-S550	2440862.68	1970 Oct 3 0420	R-5V	-	7?	0.000	AN	SS	-	AN/	Solar X	SpaSciRev13,731	-	-
1970-S629	2440918.73	1970 Nov 28 0530	R-5V	-	8?	0.000	AN	SS	-	AN/	Aeron/Ionos/Solar UV/X	WDCRF	SR12,651	-
1971-S397	2441183.64	1971 Aug 20 0320	R-5V	-	9?	0.000	AN	SS	-	AN/	Solar UV/Solar X	SR13,787	SFLT23-161	-
1971-S469	2441218.66	1971 Sep 24 0345	R-5V	-	10?	0.000	AN	SF	U	AN/	Ionos?	RML	-	-
1971-S517	2441234.25	1971 Oct 9 1802	R-5V	-	11?	0.000	AN	SS	-	AN/	Ionos?	RML	-	-
1975-S225	2442608.65	1975 Jul 15 0335	R-5V	-	-	0.000	AN	SS	-	IKI/GMS/Biryukov,Danilov	Ionos	SR17,465	SR17,451/KI16,315	-
1978-S336	2443842.50	1978 Dec	R-5V	?	-	0.000	AN	SS	-	AN/Porotnikov	Active Plasma	KI19,314	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S183	2435974.17	1957 May 15 1601	R-7	-	M1-5	8K71 LKI I-1	-	-	-	NIIP-5	LC1	-	-	100?	-	(Kura)
1957-A62	2436032.04	1957 Jul 12 1253	R-7	-	M1-7	8K71 LKI I-2	-	-	-	NIIP-5	LC1	-	-	20?	-	(Kura)
1957-S92	2436072.02	1957 Aug 21 1225	R-7	-	M1-8	8K71 LKI I-3	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1957-S107	2436088.99	1957 Sep 7 1139	R-7	-	M1-9	8K71 LKI I-4	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1957 ALP	2436116.31	1957 Oct 4 1928:34	Sputnik 8K71PS	-	M1-PS	PS-1	PS-1	-	-	NIIP-5	LC1	-	-	938	-	-
1957 BET	2436145.60	1957 Nov 3 0230:42	Sputnik 8K71PS	-	M1-2PS	PS-2	PS-2	-	-	NIIP-5	LC1	-	-	1656	-	-
1958-S17	2436233.39	1958 Jan 29 2115	R-7	-	M1-11	8K71 LKI II-1	-	-	-	NIIP-5	LC1	-	-	1000?	-	(Kura)
1958-S49	2436292.11	1958 Mar 29 1443	R-7	-	M1-10	8K71 LKI II-2	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1958-S51	2436298.15	1958 Apr 4 1530	R-7	-	B1-12	8K71 LKI II-3	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1958-F03	2436320.88	1958 Apr 27 0901	Sputnik 8A91	-	B1-2	ISZ D-1 No. 1	D-1 No. 1	-	-	NIIP-5	LC1	-	-	30?	-	-
1958 DEL	2436338.79	1958 May 15 0700:35	Sputnik 8A91	-	B1-1	ISZ D-1 No. 2	D-1 No. 2	-	-	NIIP-5	LC1	-	-	1860	-	-
1958-S70	2436347.94	1958 May 24 1030	R-7	-	B1-3	8K71 LKI II-4	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1958-A69	2436394.82	1958 Jul 10 0742	R-7	-	B1-4	8K71 LKI II-5	MGCh No. B1-4	-	-	NIIP-5	LC1	-	-	40?	-	(Kura)
1958-F15	2436469.82	1958 Sep 23 0740:23	Vostok-L 8K72	-	B1-3	Luna	E-1 No. 1	-	-	NIIP-5	LC1	-	-	80?	-	-
1958-F17	2436488.40	1958 Oct 11 2141:58	Vostok-L 8K72	-	B1-4	Luna	E-1 No. 2	-	-	NIIP-5	LC1	-	-	80?	-	-
1958-F20	2436542.26	1958 Dec 4 1818:45	Vostok-L 8K72	-	B1-5	Luna	E-1 No. 3	-	-	NIIP-5	LC1	-	-	100?	-	-
1958-S377	2436562.17	1958 Dec 24 1600	R-7	-	B3-16	8K71 LKI III-1	-	-	-	NIIP-5	LC1	-	-	200?	-	(Kura)
1959 MU	2436571.20	1959 Jan 2 1641:21	Vostok-L 8K72	-	B1-6	Luna-1	E-1 No. 4	-	-	NIIP-5	LC1	-	-	150000	-	-
1959-S32	2436616.57	1959 Feb 17 0146	R-7	-	No. 041081	8K71 LKI III-2	GCh No. 13	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S36	2436652.73	1959 Mar 25 0525	R-7	-	No. I3-18	8K71 LKI III-3	GCh No. 15	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S281	2436658.45	1959 Mar 30 2253	R-7	-	No. I3-20	8K71 LKI III-4	GCh No. I3-20	-	-	NIIP-5	LC1	-	-	1000?	-	(Kura)
1959-S282	2436698.29	1959 May 9 1859	R-7	-	No. I3-21	8K71 LKI III-5	GCh No. 17	-	-	NIIP-5	LC1	-	-	1000?	-	Kura
1959-S283	2436719.40	1959 May 30 2142	R-7	-	No. I3-22	8K71 LKI III-6	GCh No. I3-22	-	-	NIIP-5	LC1	-	-	1400?	-	Kura
1959-S284	2436729.36	1959 Jun 9 2034	R-7	-	No. I3-23	8K71 LKI III-7	GCh No. I3-23	-	-	NIIP-5	LC1	-	-	1000?	-	Kura
1959-F06	2436737.84	1959 Jun 18 0808	Vostok-L 8K72	-	I1-7	Luna	E-1 No. 5	-	-	NIIP-5	LC1	-	-	80?	-	-
1959-S112	2436768.26	1959 Jul 18 1815	R-7	-	No. I3-24	8K71 LKI III-8	GCh No. I3-24	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S130	2436779.67	1959 Jul 30 0400	R-7	-	No. 041082	8K71 LKI III-9	GCh	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S139	2436794.47	1959 Aug 13 2314	R-7	-	No. I3-25	8K71 LKI III-10	GCh No. I3-25	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959 XI	2436823.78	1959 Sep 12 0639:42	Vostok-L 8K72	-	I1-7B	Luna-2	E-1 No. 6	-	-	NIIP-5	LC1	-	-	150000	-	-
1959-S179	2436830.17	1959 Sep 18 1602	R-7	-	I1-1T	8K71 LKI III-11	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959 THE	2436845.53	1959 Oct 4 0043:39	Vostok-L 8K72	-	I1-8	Luna-3	E-2A	-	-	NIIP-5	LC1	-	-	150000	-	-
1959-S220	2436864.23	1959 Oct 22 1730	R-7	-	No. 267432	8K71 LKI III-12	-	-	-	NIIP-5	LC1	-	-	1350?	-	Pacific
1959-S222	2436867.23	1959 Oct 25 1732	R-7	-	No. 267434	8K71 LKI III-13	-	-	-	NIIP-5	LC1	-	-	1350?	-	Pacific
1959-S230	2436874.39	1959 Nov 1 2123	R-7	-	No. 267431	8K71 LKI III-14	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S251	2436893.38	1959 Nov 20 2106	R-7	-	I2-1T	8K71 LKI III-15	-	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S253	2436899.55	1959 Nov 27 0112:33	R-7	-	No. 267433	8K71 LKI III-16	GCh No. I3-33	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1959-S277	2436926.30	1959 Dec 23 1905	R-7A	-	I1-1	8K74 LKI-1	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1960-S17	2436954.18	1960 Jan 20 1624	R-7A	-	I1-2	8K74 LKI-2	MGCh 46A	-	-	NIIP-5	LC1	-	-	1000?	12059	Pacific
1960-A20	2436958.18	1960 Jan 24 1615	R-7A	-	I1-3	8K74 LKI-3	MGCh 46A	-	-	NIIP-5	LC1	-	-	20?	-	(Pacific)
1960-S28	2436965.18	1960 Jan 31 1617	R-7A	-	I1-4	8K74 LKI-4	MGCh 46A	-	-	NIIP-5	LC1	-	-	1000?	-	Pacific
1960-S54	2437011.50	1960 Mar 17 2355	R-7A	-	L1-5	8K74 LKI-5	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	6318	Kura
1960-S61	2437017.59	1960 Mar 24 0206	R-7A	-	L1-6	8K74 LKI-6	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1960-U01	2437040.13	1960 Apr 15 1506:45	Vostok-L 8K72	-	L1-9/I-19AMS	-	E-3 No. 1	-	-	NIIP-5	LC1	-	-	200000	-	-
1960-F06	2437041.17	1960 Apr 16 1607:41	Vostok-L 8K72	-	L1-9A	-	E-3 No. 2	-	-	NIIP-5	LC1	-	-	0	-	-
1960 EPS	2437069.50	1960 May 15 0000:05	Vostok 8K72	-	L1-11	Korabl'-Sputnik	Vostok-1P	-	-	NIIP-5	LC1	-	-	710	-	-
1960-S118	2437090.16	1960 Jun 4 1549	R-7	-	L1-9	8K74 UBP (Readiness)	MGCh	-	-	NIIP-5	LC1	-	-	1350?	6307	Kura
1960-S164	2437121.16	1960 Jul 5 1556	R-7A	-	L1-7	8K74 LKI-7	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	12359	Pacific
1960-S167	2437123.14	1960 Jul 7 1527	R-7A	-	L1-8	8K74 LKI-8	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	12359	Pacific
1960-F09	2437143.90	1960 Jul 28 0931	Vostok 8K72	-	L1-10	-	Vostok-1 No. 1	-	-	NIIP-5	LC1	-	-	10?	-	-
1960 LAM	2437165.86	1960 Aug 19 0844:06	Vostok 8K72	-	L1-12	Korabl'-Sputnik-2	Vostok-1 No. 2	-	-	NIIP-5	LC1	-	-	383	-	-
1960-F12	2437218.10	1960 Oct 10 1427:49	Molniya 8K78	-	L1-4M	-	1M No. 1	-	-	NIIP-5	LC1	-	-	200?	-	-
1960-F14	2437222.08	1960 Oct 14 1351:03	Molniya 8K78	-	L1-5M	-	1M No. 2	-	-	NIIP-5	LC1	-	-	200?	-	-
1960 RHO	2437269.81	1960 Dec 1 0730:04	Vostok 8K72	-	L1-13	Korabl'-Sputnik-3	Vostok-1 No. 3	-	-	NIIP-5	LC1	-	-	269	-	-
1960-F19	2437290.82	1960 Dec 22 0745:19	Vostok 8K72	K	L1-13A	-	Vostok-1 No. 4	-	-	NIIP-5	LC1	-	-	214	-	-
1961-S20	2437313.55	1961 Jan 14 0119:04	R-7A	-	L1-1T	8K74 UBP-2	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	6297	Kura
1961 BET	2437334.55	1961 Feb 4 0118:03	Molniya 8K78	-	L1-7V	Tyazholiy Sputnik	1VA No. 1	-	-	NIIP-5	LC1	-	-	334	-	-
1961 GAM	2437342.52	1961 Feb 12 0034:36	Molniya 8K78	-	L1-6V	Venera	1VA No. 2	-	-	NIIP-5	LC1	-	-	150000	-	-
1961-S43	2437343.69	1961 Feb 13 0439	R-7A	-	L1-3T	8K74 UBP-3	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1961-S61	2437357.54	1961 Feb 27 0052:03	R-7A	-	L2-1	8K74 UBP-4	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1961 THE	2437367.77	1961 Mar 9 0629:00	Vostok 8K72	K	E103-14	Korabl'-Sputnik-4	Vostok-3 No. 1	-	-	NIIP-5	LC1	-	-	213	-	-
1961 IOT	2437383.75	1961 Mar 25 0554:00	Vostok 8K72	K	E103-15	Korabl'-Sputnik-5	Vostok-3 No. 2	-	-	NIIP-5	LC1	-	-	236	-	-
1961 MU	2437401.75	1961 Apr 12 0607:00	Vostok 8K72	K	E103-16	Vostok	Vostok-3A No. 3	-	-	NIIP-5	LC1	-	-	321	-	-
1961-A102	2437404.31	1961 Apr 14 1924	R-7A	-	E 15001- 05	8K74 UBP-5	MGCh 46A	-	-	NIIP-5	LC31	-	-	1000?	2380	(Kura)
1961-S180	2437465.74	1961 Jun 15 0545	R-7A	-	E 15001- 06	8K74 UBP-6	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1961-S200	2437484.67	1961 Jul 4 0400	R-7A	-	L2-4	8K74 UBP-7	MGCh 46A/Airburst	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1961-S201	2437485.35	1961 Jul 4 2020	R-7A	-	L2-2	8K74 UBP-8	MGCh 46A/Airburst	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1961 TAU	2437517.75	1961 Aug 6 0600	Vostok 8K72	K	E103-17	Vostok-2	Vostok-3A No. 4	-	-	NIIP-5	LC1	-	-	238	-	-
1961-S293	2437564.19	1961 Sep 21 1630	R-7A	-	E 15003- 03	8K74 UBP-9	MGCh 46A/Max Range Test	-	-	NIIP-5	LC31?	-	-	1350?	12000	Pacific
1961-S392	2437632.75	1961 Nov 29 0559	R-7A	-	L2-3	8K74 UBP-10	MGCh E15000-13/46A	-	-	NIIP-5	LC31	-	-	1350?	6297	Kura
1961-F14	2437644.90	1961 Dec 11 0939:02	Vostok 8K72	K	E103-21	-	Zenit-2 No. 1	-	-	NIIP-5	LC1	-	-	200?	-	-
1962 XI	2437780.92	1962 Apr 26 1002	Vostok 8K72	K	E103-20	Kosmos-4	Zenit-2 No. 2	-	-	NIIP-5	LC1	-	-	317	-	-
1962-F06	2437816.90	1962 Jun 1 0938	Vostok 8A92	-	E 15000- 01	-	Zenit-2 No. 3	-	-	NIIP-5	LC1	-	-	0	-	-
1962-S218	2437848.19	1962 Jul 2 1636	R-7A	-	T 15001- 03	8K74 UBP-11	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1962 A IOT	2437873.89	1962 Jul 28 0918:31	Vostok 8A92	-	T 15000- 07	Kosmos-7	Zenit-2 No. 4	-	-	NIIP-5	LC1	-	-	352	-	-
1962 A MU	2437887.85	1962 Aug 11 0830	Vostok 8K72	K	E103-23	Vostok-3	Vostok-3A No. 5	-	-	NIIP-5	LC1	-	-	230	-	-
1962 A NU	2437888.83	1962 Aug 12 0802:17	Vostok 8K72	K	E103-22	Vostok-4	Vostok-3A No. 6	-	-	NIIP-5	LC1	-	-	216	-	-
1962 A PI	2437901.60	1962 Aug 25 0218:45	Molniya 8K78	-	T103-12	-	2MV-1 No. 1	-	-	NIIP-5	LC1	-	-	477	-	-
1962 A TAU	2437908.59	1962 Sep 1 0212:30	Molniya 8K78	-	T103-13	-	2MV-1 No. 2	-	-	NIIP-5	LC1	-	-	382	-	-
1962 A PHI	2437919.54	1962 Sep 12 0059:13	Molniya 8K78	-	T103-14	-	2MV-2 No. 1	-	-	NIIP-5	LC1	-	-	278	-	-
1962 A OME	2437934.90	1962 Sep 27 0939:51	Vostok 8A92	-	T 15000- 06	Kosmos-9	Zenit-2 No. 7	-	-	NIIP-5	LC1	-	-	346	-	-
1962 B ZET	2437954.88	1962 Oct 17 0900:00	Vostok 8A92	-	T 15000- 03	Kosmos-10	Zenit-2 No. 5	-	-	NIIP-5	LC1	-	-	376	-	-
1962 B IOT	2437962.25	1962 Oct 24 1755:04	Molniya 8K78	-	T103-15	-	2MV-4 No. 1	-	-	NIIP-5	LC1	-	-	708	-	-
1962 B NU	2437970.18	1962 Nov 1 1614:16	Molniya 8K78	-	T103-16	Mars-1	2MV-4 No. 2	-	-	NIIP-5	LC1	-	-	150000	-	-
1962 B XI	2437973.15	1962 Nov 4 1535:15	Molniya 8K78	-	T103-17	-	2MV-3 No. 1	-	-	NIIP-5	LC1	-	-	590	-	-
1962 B OME	2438020.89	1962 Dec 22 0923	Vostok 8A92	-	T 15000- 10	Kosmos-12	Zenit-2 No. 6	-	-	NIIP-5	LC1	-	-	401	-	-
1963-001	2438033.87	1963 Jan 4 0849	Molniya 8K78	E6	T103-09	-	E-6 No. 2	-	-	NIIP-5	LC1	-	-	226	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-F01	2438063.90	1963 Feb 3 0929:14	Molniya 8K78	E6	G103-10	-	E-6 No. 3	-	-	NIIP-5	LC1	-	-	220?	-	-
1963-006	2438109.85	1963 Mar 21 0830:01	Vostok 8A92	-	T 15000- 01	Kosmos-13	Zenit-2 No. 9	-	-	NIIP-5	LC1	-	-	324	-	-
1963-008	2438121.84	1963 Apr 2 0816:37	Molniya 8K78	E6	G103-11	Luna-4	E-6 No. 4	-	-	NIIP-5	LC1	-	-	150000	-	-
1963-S167	2438142.02	1963 Apr 22 1232:06	R-7A	-	L1-4	8K74 UBP-12	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1963-011	2438141.85	1963 Apr 22 0830	Vostok 8A92	-	T 15000- 08	Kosmos-15	Zenit-2 No. 8	-	-	NIIP-5	LC1	-	-	367	-	-
1963-012	2438147.87	1963 Apr 28 0849:56	Vostok 8A92	-	E 15000- 02	Kosmos-16	Zenit-2 No. 10	-	-	NIIP-5	LC1	-	-	396	-	-
1963-S211	2438167.82	1963 May 18 0741	R-7A	-	L1-6	8K74 UBP-13	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1963-018	2438173.94	1963 May 24 1034:06	Vostok 8A92	-	E 15000- 12	Kosmos-18	Zenit-2 No. 11	-	-	NIIP-5	LC1	-	-	301	-	-
1963-020	2438195.00	1963 Jun 14 1158:58	Vostok 8K72	K	E103-24	Vostok-5	Vostok-3A No. 7	-	-	NIIP-5	LC1	-	-	223	-	-
1963-023	2438196.90	1963 Jun 16 0929:52	Vostok 8K72	K	E103-25	Vostok-6	Vostok-3A No. 8	-	-	NIIP-5	LC1	-	-	223	-	-
1963-E01	2438220.92	1963 Jul 10 1003:25	Vostok 8A92	-	E 15000- 04	-	Zenit-2 No. 12	-	-	NIIP-5	LC1	-	-	0	-	-
1963-S487	2438317.08	1963 Oct 14 1356:40	R-7A	-	L2-5	8K74 UBP-14	MGCh 46A	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1963-040	2438320.90	1963 Oct 18 0929:58	Vostok 8A92	-	G 15001- 01	Kosmos-20	Zenit-2 No. 13	-	-	NIIP-5	LC1	-	-	309	-	-
1963-043	2438334.87	1963 Nov 1 0856:38	Polyot 11A59	-	E 15003- 02A	Polyot	I-2B No. 102	-	-	NIIP-5	LC31	-	-	1424	-	-
1963-044	2438344.77	1963 Nov 11 0623:35	Molniya 8K78	-	G 15000- 17/G10318	Kosmos-21	3MV-1 No. 1	-	-	NIIP-5	LC1	-	-	232	-	-
1963-045	2438349.94	1963 Nov 16 1034:25	Voskhod 11A57	-	G 15000- 06	Kosmos-22	Zenit-4 No. 1	-	-	NIIP-5	LC1	-	-	390	-	-
1963-F15	2438361.89	1963 Nov 28 0919:59	Vostok 8A92	-	G 15001- 02	-	Zenit-2 No. 14	-	-	NIIP-5	LC1	-	-	206	-	-
1963-052	2438382.90	1963 Dec 19 0928:58	Vostok 8A92	-	G 15001- 03	Kosmos-24	Zenit-2 No. 15	-	-	NIIP-5	LC1	-	-	398	-	-
1964-006	2438424.91	1964 Jan 30 0945:09	Vostok 8K72	K	G103-18	Elektron-1/2	2D No. 1	-	-	NIIP-5	LC1	-	-	69333	-	-
1964-F01	2438444.74	1964 Feb 19 0547:40	Molniya 8K78	M	T 15000- 19	-	3MV-1 No. 2	-	-	NIIP-5	LC1	-	-	200?	-	-
1964-F03	2438475.84	1964 Mar 21 0815:35	Molniya 8K78	E6	T 15000- 20	[8K78/E6?]	E-6 No. 6	-	-	NIIP-5	LC1	-	-	200?	-	-
1964-014	2438481.64	1964 Mar 27 0324:42	Molniya 8K78	M	T 15000- 22	Kosmos-27	3MV-1 No. 3	-	-	NIIP-5	LC1	-	-	269	-	-
1964-016	2438487.61	1964 Apr 2 0242:40	Molniya 8K78	M	G 15000- 28/23	Zond	3MV-1 No. 4	-	-	NIIP-5	LC1	-	-	150000	-	-
1964-017	2438489.91	1964 Apr 4 0945:00	Vostok 8A92	-	G 15001- 04	Kosmos-28	Zenit-2 No. 16	-	-	NIIP-5	LC31	-	-	380	-	-
1964-019	2438497.90	1964 Apr 12 0930	Polyot 11A59	-	T 15001- 01A	Polyot-2	I-1B No. 112	-	-	NIIP-5	LC31	-	-	479	-	-
1964-F05	2438505.84	1964 Apr 20 0808:28	Molniya 8K78	E6	T 15000- 21	[8K78/E6?]	E-6 No. 5	-	-	NIIP-5	LC1	-	-	200	-	-
1964-021	2438510.93	1964 Apr 25 1021	Vostok 8A92	-	R 15001- 01	Kosmos-29	Zenit-2 No. 19	-	-	NIIP-5	LC31	-	-	296	-	-
1964-023	2438533.90	1964 May 18 0942	Voskhod 11A57	-	G 15000- 12	Kosmos-30	Zenit-4 No. 2	-	-	NIIP-5	LC1	-	-	368	-	-
1964-S277	2438549.75	1964 Jun 3 0604	R-7A	-	E 15003- 15	8K74A UBP-15	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1964-F07	2438550.67	1964 Jun 4 0400	Molniya 8K78	-	G 15000- 18/R10334	-	Molniya-1 11F67 No 2	-	-	NIIP-5	LC1	-	-	50?	-	-
1964-029	2438556.96	1964 Jun 10 1100	Vostok 8A92	-	R 15001- 02	Kosmos-32	Zenit-2 No. 18	-	-	NIIP-5	LC31	-	-	329	-	-
1964-033	2438569.92	1964 Jun 23 1000	Vostok 8A92	-	G 15001- 05	Kosmos-33	Zenit-2 No. 20	-	-	NIIP-5	LC31	-	-	282	-	-
1964-034	2438577.96	1964 Jul 1 1100	Voskhod 11A57	-	T 15000- 04	Kosmos-34	Zenit-4 No. 3	-	-	NIIP-5	LC1	-	-	345	-	-
1964-038	2438587.41	1964 Jul 10 2151:02	Vostok 8K72	K	G103-19	Elektron-3/4	2D No. 3	-	-	NIIP-5	LC1	-	-	67511	-	-
1964-039	2438591.98	1964 Jul 15 1127	Vostok 8A92	-	R 15001- 03	Kosmos-35	Zenit-2 No. 21	-	-	NIIP-5	LC31	-	-	299	-	-
1964-S384	2438604.08	1964 Jul 27 1400	R-7A	-	L1-7	8K74 UBP-16	MGCh 46A	-	-	NIIP-5	LC31	-	-	1350?	-	Kura
1964-044	2438621.90	1964 Aug 14 0930	Vostok 8A92	-	R 15001- 04	Kosmos-37	Zenit-2 No. 22	-	-	NIIP-5	LC31	-	-	293	-	-
1964-049	2438629.81	1964 Aug 22 0721	Molniya 8K78	-	G 15000- 19/R10336	Kosmos-41	Molniya-1 11F67 No. 1	-	-	NIIP-5	LC1	-	-	40066	-	-
1964-053	2438636.17	1964 Aug 28 1600	Vostok 8A92M	-	T 15000- 05	Kosmos-44	Meteor 11F614 No. 1	-	-	NIIP-5	LC31	-	-	873	-	-
1964-055	2438651.91	1964 Sep 13 0945	Voskhod 11A57	-	R 15001- 01	Kosmos-45	Zenit-4 No. 5	-	-	NIIP-5	LC1	-	-	317	-	-
1964-059	2438663.00	1964 Sep 24 1204	Vostok 8A92	-	R 15001- 05	Kosmos-46	Zenit-2 No. 23	-	-	NIIP-5	LC31	-	-	294	-	-
1964-062	2438674.79	1964 Oct 6 0700:00	Voskhod 11A57	-	R 15000- 02	Kosmos-47	Voskhod 3KV No. 2	-	-	NIIP-5	LC1	-	-	383	-	-
1964-065	2438680.81	1964 Oct 12 0730:01	Voskhod 11A57	-	R 15000- 04	Voskhod	Voskhod 3KV No. 3	-	-	NIIP-5	LC1	-	-	371	-	-
1964-066	2438682.92	1964 Oct 14 1000	Vostok 8A92	-	R 15002- 01	Kosmos-48	Zenit-2 No. 24	-	-	NIIP-5	LC31	-	-	288	-	-
1964-070	2438696.94	1964 Oct 28 1040	Vostok 8A92	-	R 15002- 02	Kosmos-50	Zenit-2 No. 25	-	-	NIIP-5	LC31	-	-	265	-	-
1964-078	2438730.06	1964 Nov 30 1325	Molniya 8K78	-	G 15000- 29	Zond-2	3MV-4A No. 2	-	-	NIIP-5	LC1	-	-	150000	-	-
1965-001	2438771.90	1965 Jan 11 0929:58	Vostok 8A92	-	R 15002- 03	Kosmos-52	Zenit-2 No. 26	-	-	NIIP-5	LC31	-	-	307	-	-
1965-012	2438813.81	1965 Feb 22 0730	Voskhod 11A57	-	R 15000- 03	Kosmos-57	Voskhod 3KD No. 1	-	-	NIIP-5	LC31	-	-	428	-	-
1965-014	2438817.71	1965 Feb 26 0501:32	Vostok 8A92M	-	R 15000- 09	Kosmos-58	Meteor 11F614 No. 2	-	-	NIIP-5	LC31	-	-	715	-	-
1965-015	2438826.87	1965 Mar 7 0859:28	Voskhod 11A57	-	R 15001- 05	Kosmos-59	Zenit-4 No. 11	-	-	NIIP-5	LC31	-	-	386	-	-
1965-018	2438831.89	1965 Mar 12 0925:31	Molniya 8K78	E6	G 15000- 24/R10325	Kosmos-60 [8K78/E6?]	E-6 No. 9	-	-	NIIP-5	LC1	-	-	270	-	-
1965-022	2438837.79	1965 Mar 18 0700:00	Voskhod 11A57	-	R 15000- 05	Voskhod-2	Voskhod 3KD No. 4	-	-	NIIP-5	LC1	-	-	472	-	-
1965-025	2438844.92	1965 Mar 25 1000	Vostok 8A92	-	G 15001- 06	Kosmos-64	Zenit-2 No. 17	-	-	NIIP-5	LC31	-	-	263	-	-
1965-F05	2438860.86	1965 Apr 10 0839:01	Molniya 8K78	-	U 15000- 22/R10326	-	E-6 No. 8	-	-	NIIP-5	LC1	-	-	200?	-	-
1965-029	2438867.91	1965 Apr 17 0950	Voskhod 11A57	-	G 15000- 11	Kosmos-65	Zenit-4 No. 6	-	-	NIIP-5	LC31	-	-	325	-	-
1965-030	2438873.58	1965 Apr 23 0155:00	Molniya 8K78	-	U 15000 -35/U10335	Molniya-1	Molniya-1 11F67 No. 3	-	-	NIIP-5	LC1	-	-	40183	-	-
1965-035	2438887.90	1965 May 7 0929:59	Vostok 8A92	-	R 15002- 04	Kosmos-66	Zenit-2 No. 27	-	-	NIIP-5	LC31	-	-	286	-	-
1965-036	2438889.83	1965 May 9 0749:37	Molniya 8K78	M	U 15000- 24/U10330	Luna-5 [8K78/E6?]	E-6 No. 10	-	-	NIIP-5	LC1	-	-	150000	-	-
1965-040	2438905.95	1965 May 25 1050:00	Voskhod 11A57	-	R 15001- 04	Kosmos-67	Zenit-4 No. 10	-	-	NIIP-5	LC31	-	-	354	-	-
1965-044	2438919.82	1965 Jun 8 0740:23	Molniya 8K78	M	U 15000- 33/U10331	Luna-6 [8K78/E6?]	E-6 No. 7	-	-	NIIP-5	LC1	-	-	150000	-	-
1965-046	2438926.90	1965 Jun 15 0943:02	Vostok 8A92	-	U 15001- 01	Kosmos-68	Zenit-2 No. 29	-	-	NIIP-5	LC31	-	-	329	-	-
1965-049	2438936.91	1965 Jun 25 0945:00	Voskhod 11A57	-	G 15000- 10	Kosmos-69	Zenit-4 No. 4	-	-	NIIP-5	LC1	-	-	398	-	-
1965-F08	2438954.96	1965 Jul 13 1100	Vostok 8A92	-	R 15002- 05	-	Zenit-2 No. 28	-	-	NIIP-5	LC31	-	-	100?	-	-
1965-056	2438960.11	1965 Jul 18 1432:05	Molniya 8K78	-	U 15000- 32	Zond-3	3MV-4 No. 3	-	-	NIIP-5	LC1	-	-	150000	-	-
1965-061	2438975.96	1965 Aug 3 1100	Voskhod 11A57	-	U 15001- 01	Kosmos-77	Zenit-4 No. 13	-	-	NIIP-5	LC31	-	-	300	-	-
1965-066	2438986.96	1965 Aug 14 1056:46	Vostok 8A92	-	U 15001- 02	Kosmos-78	Zenit-2 No. 30	-	-	NIIP-5	LC31	-	-	328	-	-
1965-069	2438997.92	1965 Aug 25 1010:02	Voskhod 11A57	-	R 15001- 06	Kosmos-79	Zenit-4 No. 7	-	-	NIIP-5	LC1	-	-	345	-	-
1965-071	2439012.90	1965 Sep 9 0930	Voskhod 11A57	-	R 15001- 02	Kosmos-85	Zenit-4 No. 8	-	-	NIIP-5	LC31	-	-	285	-	-
1965-075	2439026.88	1965 Sep 23 0900	Voskhod 11A57	-	R 15001- 03	Kosmos-91	Zenit-4 No. 9	-	-	NIIP-5	LC31	-	-	324	-	-
1965-077	2439037.82	1965 Oct 4 0736:48	Molniya 8K78M	-	U 15000- 54/U10327	Luna-7 [8K78/E6?]	E-6 No. 11	-	-	NIIP-5	LC1	-	-	150000	-	-
1965-080	2439047.75	1965 Oct 14 0600:00	Molniya 8K78	-	U 15000- 34	Molniya-1	Molniya-1 11F67 No. 4	-	-	NIIP-5	LC1	-	-	39949	-	-
1965-083	2439049.84	1965 Oct 16 0814:59	Voskhod 11A57	-	U 15001- 04	Kosmos-92	Zenit-4 No. 16	-	-	NIIP-5	LC31	-	-	334	-	-
1965-085	2439061.84	1965 Oct 28 0815:01	Voskhod 11A57	-	U 15001- 03	Kosmos-94	Zenit-4 No. 15	-	-	NIIP-5	LC31	-	-	271	-	-
1965-091	2439076.70	1965 Nov 12 0446:48	Molniya 8K78	M	U 15000- 42	Venera-2	3MV-4 No. 4	-	-	NIIP-5	LC31	-	-	150000	-	-
1965-092	2439080.68	1965 Nov 16 0413:35	Molniya 8K78	M	U 15000- 31	Venera-3	3MV-3 No. 1	-	-	NIIP-5	LC31	-	-	150000	-	-
1965-094	2439087.63	1965 Nov 23 0314:10	Molniya 8K78	M	U 15000- 30	Kosmos-96	3MV-4 No. 6	-	-	NIIP-5	LC31	-	-	301	-	-
1965-097	2439091.85	1965 Nov 27 0820	Vostok 8A92	-	U 15001- 05	Kosmos-98	Zenit-2 No. 31	-	-	NIIP-5	LC31	-	-	566	-	-
1965-099	2439097.95	1965 Dec 3 1046:14	Molniya 8K78	-	U 15000- 48/U10328	Luna-8 [8K78/E6?]	E-6 No. 12	-	-	NIIP-5	LC31	-	-	150000	-	-
1965-103	2439104.84	1965 Dec 10 0810	Vostok 8A92	-	U 15001- 04	Kosmos-99	Zenit-2 No. 32	-	-	NIIP-5	LC31	-	-	309	-	-
1965-S679	2439108.97	1965 Dec 14 1118	R-7A	-	T 15001- 09	8K74 UBP-P1	-	-	-	NIIP-53	LC41/1	-	-	1350?	-	Kura
1965-106	2439111.60	1965 Dec 17 0220	Vostok 8A92M	?	R 15000- 31	Kosmos-100	Meteor 11F614 No. 3	-	-	NIIP-5	LC31	-	-	750	-	-
1965-S693	2439116.34	1965 Dec 21 2003	R-7A	-	T 15003- 14	8K74 UBP-P2	MGCh 46A	-	-	NIIP-53	LC41/1	-	-	1350?	-	Kura
1965-111	2439122.43	1965 Dec 27 2224:56	Vostok-2A 11A510	-	G 15000- 01	Kosmos-102	4Ya11 (US-A)	-	-	NIIP-5	LC31	-	-	269	-	-
1966-001	2439132.85	1966 Jan 7 0820	Vostok 8A92	-	U 15001- 08	Kosmos-104	Zenit-2 No. 36	-	-	NIIP-5	LC31	-	-	389	-	-
1966-003	2439147.85	1966 Jan 22 0830	Vostok 8A92	-	U 15001- 10	Kosmos-105	Zenit-2 No. 38	-	-	NIIP-5	LC31	-	-	310	-	-
1966-006	2439156.99	1966 Jan 31 1141:37	Molniya 8K78M	?	U 15000- 49	Luna-9	E-6M No. 202 (13)	-	-	NIIP-5	LC31	-	-	150000	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-010	2439166.86	1966 Feb 10 0840	Vostok 8A92	-	U 15001- 06	Kosmos-107	Zenit-2 No. 34	-	-	NIIP-5	LC31	-	-	312	-	-
1966-014	2439175.87	1966 Feb 19 0849	Voskhod 11A57	-	U 15001- 02	Kosmos-109	Zenit-4 No. 14	-	-	NIIP-5	LC31	-	-	292	-	-
1966-015	2439179.34	1966 Feb 22 2009:36	Voskhod 11A57	-	R 15000- 06	Kosmos-110	Voskhod 3KV No. 5	-	-	NIIP-5	LC31	-	-	879	-	-
1966-017	2439185.96	1966 Mar 1 1103:49	Molniya 8K78M	?	U 15000- 50	Kosmos-111	E-6S No. 204 ISL	-	-	NIIP-5	LC31	-	-	194	-	-
1966-021	2439201.94	1966 Mar 17 1028:42	Vostok 8A92	-	U 15001- 09	Kosmos-112	Zenit-2 No. 37	-	-	NIIP-53	LC41/1	-	-	565	-	-
1966-023	2439205.90	1966 Mar 21 0940	Voskhod 11A57	-	U 15001- 05	Kosmos-113	Zenit-4 No. 17	-	-	NIIP-5	LC31	-	-	313	-	-
1966-F04	2439211.81	1966 Mar 27 0720	Molniya 8K78	M	U 15000- 40	-	Molniya-1 11F67 No 5	-	-	NIIP-5	LC31	-	-	200?	-	-
1966-027	2439215.95	1966 Mar 31 1046:59	Molniya 8K78M	?	N 15000- 51/N10351	Luna-10	E-6S No. 206 ISL	-	-	NIIP-5	LC31	-	-	150000	-	-
1966-028	2439221.99	1966 Apr 6 1140	Voskhod 11A57	-	U 15001- 07 *	Kosmos-114	Zenit-4 No. 19	-	-	NIIP-53	LC41/1	-	-	353	-	-
1966-033	2439235.94	1966 Apr 20 1040	Vostok 8A92	-	U 15001- 07	Kosmos-115	Zenit-2 No. 35	-	-	NIIP-5	LC31	-	-	286	-	-
1966-035	2439240.80	1966 Apr 25 0710	Molniya 8K78	M	N 15000- 37	Molniya-1	Molniya-1 11F67 No. 6	-	-	NIIP-5	LC31	-	-	39587	-	-
1966-037	2439251.96	1966 May 6 1058	Vostok 8A92	-	N 15001- 01	Kosmos-117	Zenit-2 No. 39	-	-	NIIP-5	LC31	-	-	314	-	-
1966-038	2439257.09	1966 May 11 1410	Vostok 8A92M	-	R 15000- 32	Kosmos-118	Meteor 11F614 No. 4	-	-	NIIP-5	LC31	-	-	681	-	-
1966-F06	2439262.96	1966 May 17 1100	Voskhod 11A57	-	U 15001- 06	-	Zenit-4 No. 18	-	-	NIIP-53	LC41/1	-	-	10?	-	-
1966-S747	2439272.50	1966 May 27	R-7A	-	-	8K74 UBP	-	-	-	NIIP-5	LC1	-	-	1350?	-	-
1966-050	2439284.96	1966 Jun 8 1100	Voskhod 11A57	-	N 15001- 13	Kosmos-120	Zenit-2 No. 41	-	-	NIIP-5	LC31	-	-	331	-	-
1966-054	2439293.96	1966 Jun 17 1100	Voskhod 11A57	-	U 15001- 08	Kosmos-121	Zenit-4 No. 20	-	-	NIIP-53	LC41/1	-	-	331	-	-
1966-S748	2439301.50	1966 Jun 25	R-7A	-	-	8K74 UBP	Pal'ma	-	-	NIIP-5	LC1	-	-	1350?	-	Kura
1966-057	2439301.94	1966 Jun 25 1030	Vostok 8A92M	-	R 15000- 21	Kosmos-122	Meteor 11F614 No. 5	-	-	NIIP-5	LC31	-	-	715	-	-
1966-064	2439320.93	1966 Jul 14 1025	Voskhod 11A57	-	N 15001- 14	Kosmos-124	Zenit-2 No. 42	-	-	NIIP-5	LC31	-	-	293	-	-
1966-067	2439326.87	1966 Jul 20 0858	Vostok-2A 11A510	-	G 15000- 02	Kosmos-125	US-A	-	-	NIIP-5	LC31	-	-	259	-	-
1966-068	2439334.95	1966 Jul 28 1050	Voskhod 11A57	-	N 15001- 01	Kosmos-126	Zenit-4 No. 21	-	-	NIIP-5	LC31	-	-	349	-	-
1966-071	2439345.98	1966 Aug 8 1129	Voskhod 11A57	-	N 15001- 02	Kosmos-127	Zenit-4 No. 22	-	-	NIIP-5	LC31	-	-	270	-	-
1966-078	2439361.84	1966 Aug 24 0803:21	Molniya 8K78M	?	N 15000- 52	Luna-11	E-6LF No. 101	-	-	NIIP-5	LC31	-	-	150000	-	-
1966-079	2439364.91	1966 Aug 27 0950	Voskhod 11A57	-	N 15001- 03	Kosmos-128	Zenit-4 No. 23	-	-	NIIP-5	LC1?	-	-	342	-	-
1966-F09	2439384.90	1966 Sep 16 0930	Vostok 8A92	-	N 15001- 02	-	Zenit-2 No. 40	-	-	NIIP-5	LC31	-	-	1?	-	-
1966-091	2439413.01	1966 Oct 14 1213:08	Vostok 8A92	-	N 15001- 07	Kosmos-129	Zenit-2 No. 33	-	-	NIIP-53	LC41/1	-	-	312	-	-
1966-092	2439418.83	1966 Oct 20 0750	Molniya 8K78	M	N 15000- 40	Molniya-1	Molniya-1 11F67 No. 7	-	-	NIIP-5	LC1	-	-	40053	-	-
1966-093	2439418.87	1966 Oct 20 0846	Voskhod 11A57	-	N 15001- 04	Kosmos-130	Zenit-4 No. 24	-	-	NIIP-5	LC31	-	-	314	-	-
1966-094	2439420.86	1966 Oct 22 0842:26	Molniya 8K78M	?	N 15000- 53	Luna-12	E-6LF No. 102	-	-	NIIP-5	LC31	-	-	150000	-	-
1966-105	2439441.91	1966 Nov 12 0950	Voskhod 11A57	-	N 15001- 05	Kosmos-131	Zenit-4 No. 25	-	-	NIIP-53	LC41/1	-	-	374	-	-
1966-106	2439448.83	1966 Nov 19 0800	Vostok 8A92	-	N 15001- 08	Kosmos-132	Zenit-2 No. 46	-	-	NIIP-5	LC31	-	-	273	-	-
1966-107	2439457.96	1966 Nov 28 1100:00	Soyuz 11A511	-	U 15000- 02	Kosmos-133	Soyuz 7K-OK No. 2	-	-	NIIP-5	LC31	-	-	248	-	-
1966-108	2439462.84	1966 Dec 3 0815	Voskhod 11A57	-	N 15001- 06	Kosmos-134	Zenit-4 No. 26	-	-	NIIP-5	LC31	-	-	310	-	-
1966-F12	2439473.96	1966 Dec 14 1100	Soyuz 11A511	-	U 15000- 01	-	Soyuz No. 1	-	-	NIIP-5	LC31	-	-	0	-	-
1966-115	2439479.00	1966 Dec 19 1200:01	Vostok 8A92	-	N 15001- 09	Kosmos-136	Zenit-2 No. 47	-	-	NIIP-53	LC41/1	-	-	602	-	-
1966-116	2439480.93	1966 Dec 21 1017:08	Molniya 8K78M	?	N 15000- 55	Luna-13	E-6M No. 205	-	-	NIIP-5	LC1	-	-	150000	-	-
1967-004	2439510.03	1967 Jan 19 1239:59	Vostok 8A92	-	N 15001- 05	Kosmos-138	Zenit-2 No. 43	-	-	NIIP-53	LC41/1	-	-	278	-	-
1967-009	2439528.64	1967 Feb 7 0320:00	Soyuz 11A511	-	U 15000- 03	Kosmos-140	Soyuz No. 3	-	-	NIIP-5	LC1	-	-	234	-	-
1967-012	2439529.93	1967 Feb 8 1019:59	Voskhod 11A57	-	N 15001- 09	Kosmos-141	Zenit-4 No. 29	-	-	NIIP-53	LC41/1	-	-	327	-	-
1967-017	2439548.86	1967 Feb 27 0845:01	Vostok 8A92	-	U 15001- 03	Kosmos-143	Zenit-2 No. 45	-	-	NIIP-5	LC1	-	-	298	-	-
1967-018	2439550.11	1967 Feb 28 1434:59	Vostok 8A92M	?	N 15000- 55	Kosmos-144	Meteor 11F614 No. 6	-	-	NIIP-53	LC41/1	-	-	707	-	-
1967-022	2439563.01	1967 Mar 13 1210:23	Vostok 8A92	-	N 15001- 06	Kosmos-147	Zenit-2 No. 44	-	-	NIIP-53	LC41/1	-	-	300	-	-
1967-025	2439572.03	1967 Mar 22 1244:59	Voskhod 11A57	-	N 15001- 07	Kosmos-150	Zenit-4 No. 27	-	-	NIIP-53	LC41/1	-	-	352	-	-
1967-030	2439585.08	1967 Apr 4 1400:02	Vostok 8A92	-	Ya15001- 01	Kosmos-153	Zenit-2 No. 48	-	-	NIIP-53	LC41/1	-	-	277	-	-
1967-033	2439592.95	1967 Apr 12 1051:02	Voskhod 11A57	-	N 15001- 08	Kosmos-155	Zenit-4 No. 28	-	-	NIIP-5	LC1	-	-	276	-	-
1967-037	2439603.52	1967 Apr 23 0035:00	Soyuz 11A511	-	U 15000- 04	Soyuz-1	Soyuz No. 4	-	-	NIIP-5	LC1	-	-	223	-	-
1967-039	2439608.03	1967 Apr 27 1250:02	Vostok 8A92M	-	R 15000- 22	Kosmos-156	Meteor 11F614 No. 7	-	-	NIIP-53	LC41/1	-	-	707	-	-
1967-044	2439622.94	1967 May 12 1030:01	Vostok 8A92	-	Ya15001- 02	Kosmos-157	Zenit-2 No. 49	-	-	NIIP-5	LC1	-	-	297	-	-
1967-046	2439627.41	1967 May 16 2143:57	Molniya 8K78M	?	N 15001- 58	Kosmos-159	E-6LS No. 111	-	-	NIIP-5	LC1	-	-	60882	-	-
1967-049	2439633.08	1967 May 22 1400:00	Voskhod 11A57	-	Ya15001- 12	Kosmos-161	Zenit-4 No. 31	-	-	NIIP-53	LC41/1	-	-	321	-	-
1967-052	2439635.45	1967 May 24 2250:00	Molniya 8K78	M	N 15000- 41	Molniya-1	Molniya-1 11F67 No. 8	-	-	NIIP-5	LC1	-	-	39795	-	-
1967-054	2439642.94	1967 Jun 1 1040:02	Voskhod 11A57	-	Ya15001- 11	Kosmos-162	Zenit-4 No. 30	-	-	NIIP-5	LC1	-	-	325	-	-
1967-057	2439650.04	1967 Jun 8 1300:01	Voskhod 11A57	-	Ya15001- 04	Kosmos-164	Zenit-2 No. 50	-	-	NIIP-53	LC41/1	-	-	301	-	-
1967-058	2439653.61	1967 Jun 12 0239:45	Molniya 8K78M	VL	Ya15000- 71 L70	Venera-4	4V-1 No. 310	-	-	NIIP-5	LC1	-	-	150000	-	-
1967-063	2439658.61	1967 Jun 17 0236:38	Molniya 8K78M	VL	Ya15000- 70 L71	Kosmos-167	4V-1 No. 311	-	-	NIIP-5	LC1	-	-	283	-	-
1967-F06	2439661.96	1967 Jun 20 1100:00	Voskhod 11A57	-	Ya15001- 13	-	Zenit-4 No. 32	-	-	NIIP-53	LC41/1	-	-	2?	-	-
1967-067	2439675.75	1967 Jul 4 0559:59	Voskhod 11A57	-	Ya15001- 05	Kosmos-168	Zenit-2 No. 52	-	-	NIIP-5	LC31	-	-	386	-	-
1967-F08	2439692.75	1967 Jul 21 0600:04	Voskhod 11A57	-	Ya15001- 14	-	Zenit-4 No. 33	-	-	NIIP-5	LC31	-	-	200?	-	-
1967-S357	2439696.83	1967 Jul 25 0800	R-7A	-	E 15002- 05	8K74 UBP	MGCh 46A	-	-	NIIP-53	LC43/4	-	-	1350?	-	Kura
1967-078	2439711.74	1967 Aug 9 0545:18	Voskhod 11A57	-	Ya15001- 15	Kosmos-172	Zenit-4 No. 34	-	-	NIIP-5	LC1	-	-	290	-	-
1967-082	2439733.83	1967 Aug 31 0800:03	Molniya 8K78	M	N 15000- 81 L81	Kosmos-174	Molniya-1Yu 11F67 No. 11	-	-	NIIP-5	LC1	-	-	39905	-	-
1967-F09	2439734.94	1967 Sep 1 1030	Voskhod 11A57	-	Ya15001- 03	-	Zenit-2 No. 51	-	-	NIIP-53	LC41/1	-	-	200?	-	-
1967-085	2439744.94	1967 Sep 11 1030	Voskhod 11A57	-	Ya15002- 11	Kosmos-175	Zenit-4 No. 37	-	-	NIIP-53	LC41/1	-	-	362	-	-
1967-088	2439749.75	1967 Sep 16 0606:00	Voskhod 11A57	-	Ya15001- 06	Kosmos-177	Zenit-2 No. 53	-	-	NIIP-5	LC1	-	-	275	-	-
1967-093	2439759.93	1967 Sep 26 1020	Voskhod 11A57	-	Ya15001- 07	Kosmos-180	Zenit-2 No. 54	-	-	NIIP-53	LC41/1	-	-	348	-	-
1967-095	2439766.71	1967 Oct 3 0500:01	Molniya 8K78	M	Ya15000- 83 L83	Molniya-1	Molniya-1 11F67 No. 9	-	-	NIIP-5	LC1	-	-	39990	-	-
1967-097	2439774.98	1967 Oct 11 1130:04	Voskhod 11A57	-	Ya15002- 01	Kosmos-181	Zenit-2 No. 55	-	-	NIIP-53	LC41/1	-	-	324	-	-
1967-098	2439779.83	1967 Oct 16 0800	Voskhod 11A57	-	Ya15001- 17	Kosmos-182	Zenit-4 No. 36	-	-	NIIP-5	LC31	-	-	336	-	-
1967-101	2439785.86	1967 Oct 22 0840:01	Molniya 8K78	M	Ya15000- 84 L84	Molniya-1	Molniya-1 11F67 No. 12	-	-	NIIP-5	LC1	-	-	40911	-	-
1967-102	2439788.45	1967 Oct 24 2249:09	Vostok 8A92M	-	N 15000- 56	Kosmos-184	Meteor 11F614 No. 8	-	-	NIIP-53	LC41/1	-	-	713	-	-
1967-105	2439790.90	1967 Oct 27 0929:59	Soyuz 11A511	-	U 15000- 05	Kosmos-186	Soyuz No. 6	-	-	NIIP-5	LC31	-	-	254	-	-
1967-107	2439793.84	1967 Oct 30 0812:41	Soyuz 11A511	-	N 15000- 07	Kosmos-188	Soyuz No. 5	-	-	NIIP-5	LC1	-	-	254	-	-
1967-110	2439797.97	1967 Nov 3 1120	Voskhod 11A57	-	Ya15001- 16	Kosmos-190	Zenit-4 No. 35	-	-	NIIP-53	LC41/1	-	-	337	-	-
1967-117	2439819.98	1967 Nov 25 1130	Voskhod 11A57	-	Ya15002- 04	Kosmos-193	Zenit-2 No. 58	-	-	NIIP-53	LC41/1	-	-	356	-	-
1967-119	2439828.00	1967 Dec 3 1200	Voskhod 11A57	-	Ya15002- 13	Kosmos-194	Zenit-4 No. 39	-	-	NIIP-53	LC41/1	-	-	328	-	-
1967-124	2439841.00	1967 Dec 16 1200:37	Voskhod 11A57	-	Ya15002- 03	Kosmos-195	Zenit-2 No. 57	-	-	NIIP-53	LC41/1	-	-	355	-	-
1968-003	2439872.00	1968 Jan 16 1200:01	Voskhod 11A57	-	Ya15002- 05	Kosmos-199	Zenit-2 No. 59	-	-	NIIP-53	LC41/1	-	-	441	-	-
1968-009	2439892.83	1968 Feb 6 0800	Voskhod 11A57	-	N 15002- 14	Kosmos-201	Zenit-4 No. 40	-	-	NIIP-5	LC31	-	-	336	-	-
1968-F01	2439893.95	1968 Feb 7 1043:54	Molniya 8K78M	-	Ya15000- 57 L57	-	E-6LS No. 112	-	-	NIIP-5	LC1	-	-	190?	-	-
1968-016	2439921.02	1968 Mar 5 1230:01	Voskhod 11A57	-	Ya15002- 02	Kosmos-205	Zenit-2 No. 56	-	-	NIIP-53	LC41/1	-	-	292	-	-
1968-019	2439929.90	1968 Mar 14 0934:01	Vostok 8A92M	-	G 15000- 03	Kosmos-206	Meteor 11F614 No. 9	-	-	NIIP-53	LC41/1	-	-	713	-	-
1968-021	2439932.02	1968 Mar 16 1230:00	Voskhod 11A57	-	Ya15002- 12	Kosmos-207	Zenit-4 No. 38	-	-	NIIP-53	LC41/1	-	-	338	-	-
1968-022	2439936.91	1968 Mar 21 0950:00	Voskhod 11A57	-	R 15000- 10	Kosmos-208	Zenit-2M	-	-	NIIP-5	LC1	-	-	288	-	-
1968-024	2439949.96	1968 Apr 3 1100	Voskhod 11A57	-	Ya15002- 06	Kosmos-210	Zenit-2 No. 60	-	-	NIIP-53	LC41/1	-	-	373	-	-
1968-027	2439953.92	1968 Apr 7 1009:32	Molniya 8K78M	-	Ya15000- 58 L58	Luna-14	E-6LS No. 113	-	-	NIIP-5	LC1	-	-	150000	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-029	2439960.92	1968 Apr 14 1000:00	Soyuz 11A511	-	Ya15000- 09	Kosmos-212	Soyuz No. 8	-	-	NIIP-5	LC31	-	-	204	-	-
1968-030	2439961.90	1968 Apr 15 0934:18	Soyuz 11A511	-	U 15000- 06	Kosmos-213	Soyuz No. 7	-	-	NIIP-5	LC1	-	-	276	-	-
1968-032	2439964.94	1968 Apr 18 1030:01	Voskhod 11A57	-	V 15001- 12	Kosmos-214	Zenit-4 No. 45	-	-	NIIP-53	LC41/1	-	-	373	-	-
1968-034	2439966.94	1968 Apr 20 1030:00	Voskhod 11A57	-	V 15001- 01	Kosmos-216	Zenit-2 No. 62	-	-	NIIP-5	LC31	-	-	270	-	-
1968-035	2439967.68	1968 Apr 21 0420:01	Molniya 8K78M	-	Ya15000- 82 L82	Molniya-1	Molniya-1 11F67 No. 10	-	-	NIIP-5	LC1	-	-	40099	-	-
1968-045	2440008.95	1968 Jun 1 1050	Voskhod 11A57	-	V 15001- 02	Kosmos-223	Zenit-2 No. 63	-	-	NIIP-53	LC41/1	-	-	334	-	-
1968-046	2440011.78	1968 Jun 4 0645:02	Voskhod 11A57	-	V 15001- 13	Kosmos-224	Zenit-4 No. 46	-	-	NIIP-5	LC31	-	-	337	-	-
1968-049	2440020.05	1968 Jun 12 1314:59	Vostok 8A92M	-	N 15000- 58	Kosmos-226	Meteor No. 10	-	-	NIIP-53	LC41/1	-	-	712	-	-
1968-051	2440025.76	1968 Jun 18 0615:06	Voskhod 11A57	-	V 15001 -11	Kosmos-227	Zenit-4 No. 44	-	-	NIIP-5	LC31	-	-	275	-	-
1968-053	2440029.00	1968 Jun 21 1200:03	Voskhod 11A57	-	Ya15001- 12	Kosmos-228	Zenit-2M	-	-	NIIP-5	LC1	-	-	258	-	-
1968-054	2440033.96	1968 Jun 26 1100:01	Voskhod 11A57	-	Ya15002- 15	Kosmos-229	Zenit-4 No. 41	-	-	NIIP-53	LC41/1	-	-	329	-	-
1968-057	2440043.14	1968 Jul 5 1525:59	Molniya 8K78M	-	Ya15000- 84 L85	Molniya-1	Molniya-1 11F67 No. 13	-	-	NIIP-5	LC1	-	-	40085	-	-
1968-058	2440048.33	1968 Jul 10 1949:58	Voskhod 11A57	-	V 15001- 03	Kosmos-231	Zenit-2 No. 64	-	-	NIIP-5	LC31	-	-	346	-	-
1968-060	2440054.05	1968 Jul 16 1310:00	Voskhod 11A57	-	V 15001- 14	Kosmos-232	Zenit-4 No. 47	-	-	NIIP-53	LC41/1	-	-	335	-	-
1968-062	2440067.79	1968 Jul 30 0700:00	Voskhod 11A57	-	Ya15002- 16	Kosmos-234	Zenit-4 No. 42	-	-	NIIP-5	LC31	-	-	292	-	-
1968-067	2440077.79	1968 Aug 9 0700:00	Voskhod 11A57	-	Ya15002- 07	Kosmos-235	Zenit-2 No. 61	-	-	NIIP-5	LC31	-	-	340	-	-
1968-071	2440096.02	1968 Aug 27 1229:59	Voskhod 11A57	-	Ya15002- 17	Kosmos-237	Zenit-4 No. 43	-	-	NIIP-53	LC41/1	-	-	357	-	-
1968-072	2440096.92	1968 Aug 28 1000:00	Soyuz 11A511	-	V 15000- 13	Kosmos-238	Soyuz No. 9	-	-	NIIP-5	LC31	-	-	253	-	-
1968-073	2440104.79	1968 Sep 5 0700:01	Voskhod 11A57	-	V 15000- 15	Kosmos-239	Zenit-4 No. 48	-	-	NIIP-5	LC31	-	-	282	-	-
1968-075	2440113.78	1968 Sep 14 0650:00	Voskhod 11A57	-	V 15001- 05	Kosmos-240	Zenit-2 No. 66	-	-	NIIP-5	LC31	-	-	311	-	-
1968-077	2440116.02	1968 Sep 16 1230:01	Voskhod 11A57	-	V 15001- 16	Kosmos-241	Zenit-4 No. 49	-	-	NIIP-53	LC41/1	-	-	324	-	-
1968-080	2440122.82	1968 Sep 23 0739:59	Voskhod 11A57	-	R 15000- 08	Kosmos-243	Zenit-2M	-	-	NIIP-5	LC1	-	-	317	-	-
1968-085	2440134.52	1968 Oct 5 0032:00	Molniya 8K78M	-	V 15000- 86 L86	Molniya-1	Molniya-1 11F67 No. 14	-	-	NIIP-5	LC1	-	-	40588	-	-
1968-087	2440137.00	1968 Oct 7 1205:46	Voskhod 11A57	-	V 15002- 11	Kosmos-246	Zenit-4 No. 51	-	-	NIIP-53	LC41/1	-	-	334	-	-
1968-088	2440141.00	1968 Oct 11 1205:01	Voskhod 11A57	-	V 15001- 04	Kosmos-247	Zenit-2 No. 65	-	-	NIIP-53	LC41/1	-	-	388	-	-
1968-093	2440154.88	1968 Oct 25 0900:00	Soyuz 11A511	-	Ya15000-008	Soyuz-2	Soyuz No. 11	-	-	NIIP-5	LC1	-	-	340	-	-
1968-094	2440155.86	1968 Oct 26 0834:18	Soyuz 11A511	-	Ya15000-010	Soyuz-3	Soyuz No. 10	-	-	NIIP-5	LC31	-	-	232	-	-
1968-096	2440160.89	1968 Oct 31 0914:55	Voskhod 11A57	-	N 15001-010	Kosmos-251	Zenit-4M	-	-	NIIP-5	LC1	-	-	354	-	-
1968-102	2440174.00	1968 Nov 13 1200:01	Voskhod 11A57	-	V 15001-006	Kosmos-253	Zenit-2 No. 67	-	-	NIIP-53	LC41/1	-	-	336	-	-
1968-104	2440182.01	1968 Nov 21 1210:01	Voskhod 11A57	-	V 15001-017	Kosmos-254	Zenit-4 No. 50	-	-	NIIP-53	LC41/1	-	-	335	-	-
1968-105	2440190.03	1968 Nov 29 1240:34	Voskhod 11A57	-	V 15001-007	Kosmos-255	Zenit-2 No. 68	-	-	NIIP-53	LC41/1	-	-	316	-	-
1968-111	2440200.85	1968 Dec 10 0825:01	Voskhod 11A57	-	V 15002-001	Kosmos-258	Zenit-2 No. 69	-	-	NIIP-5	LC31	-	-	306	-	-
1968-115	2440206.89	1968 Dec 16 0915:03	Molniya 8K78M	-	Ya15000-039 L87	Kosmos-260	Molniya-1Yu 11F67 No. 15	-	-	NIIP-5	LC1	-	-	39859	-	-
1969-001	2440226.77	1969 Jan 5 0628:08	Molniya 8K78M	VL	V 15000-072 72	Venera-5	4V-1 No. 330	-	-	NIIP-5	LC1	-	-	150000	-	-
1969-002	2440231.74	1969 Jan 10 0551:52	Molniya 8K78M	VL	V 15000-073 73	Venera-6	4V-1 No. 331	-	-	NIIP-5	LC1	-	-	150000	-	-
1969-003	2440234.01	1969 Jan 12 1210:00	Voskhod 11A57	-	Ya15002-002	Kosmos-263	Zenit-2 No. 70	-	-	NIIP-53	LC41/1	-	-	356	-	-
1969-004	2440235.81	1969 Jan 14 0730:00	Soyuz 11A511	-	Ya15000-012	Soyuz-4	Soyuz No. 12	-	-	NIIP-5	LC31	-	-	224	-	-
1969-005	2440236.80	1969 Jan 15 0704:57	Soyuz 11A511	-	Ya15000-011	Soyuz-5	Soyuz No. 13	-	-	NIIP-5	LC1	-	-	237	-	-
1969-008	2440244.89	1969 Jan 23 0915:00	Voskhod 11A57	-	N 15001-011	Kosmos-264	Zenit-4M	-	-	NIIP-5	LC1	-	-	321	-	-
1969-F03	2440254.01	1969 Feb 1 1211:00	Vostok 8A92M	-	V 15000-060	-	Meteor No. 11	-	-	NIIP-53	LC41/1	-	-	150?	-	-
1969-015	2440277.93	1969 Feb 25 1020:01	Voskhod 11A57	-	V 15002-003	Kosmos-266	Zenit-2 No. 71	-	-	NIIP-53	LC41/1	-	-	336	-	-
1969-017	2440278.85	1969 Feb 26 0830:01	Voskhod 11A57	-	V 15002-014	Kosmos-267	Zenit-4 No. 54	-	-	NIIP-5	LC31	-	-	330	-	-
1969-022	2440287.01	1969 Mar 6 1215:01	Voskhod 11A57	-	V 15002-013	Kosmos-270	Zenit-4 No. 53	-	-	NIIP-53	LC41/1	-	-	329	-	-
1969-023	2440296.01	1969 Mar 15 1215:00	Voskhod 11A57	-	V 15002-012	Kosmos-271	Zenit-4 No. 52	-	-	NIIP-53	LC41/1	-	-	2130	-	-
1969-027	2440303.01	1969 Mar 22 1215:00	Voskhod 11A57	-	V 15002-009	Kosmos-273	Zenit-2 No. 77	-	-	NIIP-53	LC41/1	-	-	335	-	-
1969-028	2440304.92	1969 Mar 24 1010:00	Voskhod 11A57	-	V 15002-018	Kosmos-274	Zenit-4 No. 58	-	-	NIIP-5	LC31	-	-	333	-	-
1969-029	2440307.02	1969 Mar 26 1230:00	Vostok 8A92M	-	R 15000-004	Meteor	Meteor 11F614M No. 12	-	-	NIIP-53	LC41/1	-	-	868	-	-
1969-032	2440315.93	1969 Apr 4 1020:01	Voskhod 11A57	-	V 15002-015	Kosmos-276	Zenit-4 No. 55	-	-	NIIP-53	LC41/1	-	-	370	-	-
1969-034	2440321.04	1969 Apr 9 1300:01	Voskhod 11A57	-	V 15002-010	Kosmos-278	Zenit-2 No. 78	-	-	NIIP-53	LC41/1	-	-	318	-	-
1969-035	2440322.60	1969 Apr 11 0230:01	Molniya 8K78M	-	Ya15000-084 L88	Molniya-1	Molniya-1 11F67 No. 16	-	-	NIIP-5	LC1	-	-	40083	-	-
1969-038	2440326.84	1969 Apr 15 0814:59	Voskhod 11A57	-	Yu15001-013	Kosmos-279	Zenit-4 No. 61	-	-	NIIP-5	LC31	-	-	274	-	-
1969-040	2440334.91	1969 Apr 23 0955:01	Voskhod 11A57	-	R 15000-007	Kosmos-280	Zenit-4M	-	-	NIIP-5	LC1	-	-	256	-	-
1969-042	2440354.89	1969 May 13 0915:01	Voskhod 11A57	-	V 15002-004	Kosmos-281	Zenit-2 No. 72	-	-	NIIP-53	LC41/1	-	-	316	-	-
1969-044	2440361.86	1969 May 20 0840:02	Voskhod 11A57	-	V 15002-017	Kosmos-282	Zenit-4 No. 57	-	-	NIIP-53	LC41/1	-	-	320	-	-
1969-048	2440370.79	1969 May 29 0659:59	Voskhod 11A57	-	Yu15001-014	Kosmos-284	Zenit-4 No. 62	-	-	NIIP-5	LC31	-	-	310	-	-
1969-052	2440387.87	1969 Jun 15 0859:01	Voskhod 11A57	-	Yu15001-012	Kosmos-286	Zenit-4 No. 60	-	-	NIIP-53	LC41/1	-	-	327	-	-
1969-054	2440396.78	1969 Jun 24 0650:00	Voskhod 11A57	-	V 15002-008	Kosmos-287	Zenit-2 No. 76	-	-	NIIP-5	LC31	-	-	340	-	-
1969-055	2440399.79	1969 Jun 27 0659:59	Voskhod 11A57	-	Yu15001-011	Kosmos-288	Zenit-4 No. 59	-	-	NIIP-5	LC1	-	-	278	-	-
1969-057	2440412.88	1969 Jul 10 0900:00	Voskhod 11A57	-	V 15002-016	Kosmos-289	Zenit-4 No. 56	-	-	NIIP-53	LC41/1	-	-	328	-	-
1969-060	2440425.02	1969 Jul 22 1230:00	Voskhod 11A57	-	V 15002-007	Kosmos-290	Zenit-2 No. 75	-	-	NIIP-53	LC41/1	-	-	331	-	-
1969-061	2440425.04	1969 Jul 22 1255:31	Molniya 8K78M	-	V 15000-089 L89	Molniya-1	Molniya-1 11F67 No. 18	-	-	NIIP-5	LC1	-	-	40085	-	-
1969-071	2440450.00	1969 Aug 16 1159:59	Voskhod 11A57	-	Yu15002-024	Kosmos-293	Zenit-2M	-	-	NIIP-5	LC31	-	-	302	-	-
1969-072	2440453.04	1969 Aug 19 1300:01	Voskhod 11A57	-	Yu15001-015	Kosmos-294	Zenit-4 No. 63	-	-	NIIP-53	LC41/1	-	-	329	-	-
1969-075	2440462.88	1969 Aug 29 0905:00	Voskhod 11A57	-	Yu15001-020	Kosmos-296	Zenit-4 No. 68	-	-	NIIP-5	LC31	-	-	306	-	-
1969-076	2440466.96	1969 Sep 2 1100:01	Voskhod 11A57	-	Yu15001-016	Kosmos-297	Zenit-4 No. 64	-	-	NIIP-53	LC41/1	-	-	336	-	-
1969-078	2440482.86	1969 Sep 18 0840:01	Voskhod 11A57	-	Yu15001-017	Kosmos-299	Zenit-4 No. 65	-	-	NIIP-5	LC31	-	-	285	-	-
1969-081	2440489.01	1969 Sep 24 1215:01	Voskhod 11A57	-	Yu15001-001	Kosmos-301	Zenit-2 No. 79	-	-	NIIP-53	LC41/1	-	-	288	-	-
1969-084	2440500.57	1969 Oct 6 0145:00	Vostok 8A92M	-	V 15000-061	Meteor	Meteor 11F614M No. 15	-	-	NIIP-53	LC41/1	-	-	761	-	-
1969-085	2440505.97	1969 Oct 11 1110:00	Soyuz 11A511	-	V 15000-14	Soyuz-6	Soyuz No. 14	-	-	NIIP-5	LC31	-	-	241	-	-
1969-086	2440506.95	1969 Oct 12 1044:42	Soyuz 11A511	-	Yu15000-19	Soyuz-7	Soyuz No. 15	-	-	NIIP-5	LC1	-	-	340	-	-
1969-087	2440507.93	1969 Oct 13 1019:09	Soyuz 11A511	-	Yu15000-18	Soyuz-8	Soyuz No. 16	-	-	NIIP-5	LC31	-	-	279	-	-
1969-089	2440511.99	1969 Oct 17 1145:01	Voskhod 11A57	-	Yu15001-019	Kosmos-302	Zenit-4 No. 67	-	-	NIIP-53	LC41/1	-	-	323	-	-
1969-093	2440518.90	1969 Oct 24 0940:00	Voskhod 11A57	-	Yu15002-026	Kosmos-306	Zenit-2M	-	-	NIIP-5	LC1	-	-	300	-	-
1969-098	2440537.98	1969 Nov 12 1130:00	Voskhod 11A57	-	Yu15001-002	Kosmos-309	Zenit-2 No. 80	-	-	NIIP-53	LC41/1	-	-	387	-	-
1969-100	2440540.85	1969 Nov 15 0830:00	Voskhod 11A57	-	Yu15002-012	Kosmos-310	Zenit-4 No. 69	-	-	NIIP-5	LC31	-	-	335	-	-
1969-104	2440559.06	1969 Dec 3 1320:02	Voskhod 11A57	-	Yu15002-027	Kosmos-313	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	252	-	-
1969-109	2440579.08	1969 Dec 23 1350:01	Voskhod 11A57	-	V 15002-019	Kosmos-317	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	302	-	-
1970-001	2440595.89	1970 Jan 9 0920:00	Voskhod 11A57	-	Yu15002-025	Kosmos-318	Zenit-2M	-	-	NIIP-5	LC31	-	-	278	-	-
1970-007	2440608.00	1970 Jan 21 1200:00	Voskhod 11A57	-	Yu15002-011	Kosmos-322	Zenit-4 No. 70	-	-	NIIP-53	LC41/1	-	-	318	-	-
1970-010	2440628.00	1970 Feb 10 1200:01	Voskhod 11A57	-	Yu15002-013	Kosmos-323	Zenit-4 No. 71	-	-	NIIP-53	LC41/1	-	-	313	-	-
1970-013	2440637.29	1970 Feb 19 1857:15	Molniya 8K78M	M1M	V 15000-087	Molniya-1	Molniya-1 11F67 No. 17	-	-	NIIP-53	LC43/4	-	-	40120	-	-
1970-015	2440650.01	1970 Mar 4 1214:42	Voskhod 11A57	-	V 15002-005	Kosmos-325	Zenit-2 No. 73	-	-	NIIP-53	LC43/4	-	-	331	-	-
1970-018	2440658.83	1970 Mar 13 0800:02	Voskhod 11A57	-	V 15002-006	Kosmos-326	Zenit-2 No. 74	-	-	NIIP-53	LC43/4	-	-	340	-	-
1970-019	2440662.97	1970 Mar 17 1110:01	Vostok 8A92M	-	R 15000-005	Meteor	Meteor 11F614M No. 14	-	-	NIIP-53	LC41/1	-	-	745	-	-
1970-022	2440672.99	1970 Mar 27 1145:00	Voskhod 11A57	-	V 15002-020	Kosmos-328	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	304	-	-
1970-023	2440679.85	1970 Apr 3 0830:00	Voskhod 11A57	-	Yu15002-032	Kosmos-329	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	239	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-026	2440684.93	1970 Apr 8 1015:20	Voskhod 11A57	-	Yu15001-018	Kosmos-331	Zenit-4 No. 66	-	-	NIIP-5	LC31	-	-	323	-	-
1970-030	2440691.88	1970 Apr 15 0900:01	Voskhod 11A57	-	Yu15003-044	Kosmos-333	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	370	-	-
1970-037	2440704.95	1970 Apr 28 1050:00	Vostok 8A92M	-	Yu15000-062	Meteor	Meteor 11F614M No. 13	-	-	NIIP-53	LC41/1	-	-	784	-	-
1970-038	2440718.92	1970 May 12 1010:01	Voskhod 11A57	-	Yu15001-003	Kosmos-344	Zenit-2 No. 81	-	-	NIIP-53	LC41/1	-	-	327	-	-
1970-039	2440726.89	1970 May 20 0920:01	Voskhod 11A57	-	Yu15002-019	Kosmos-345	Zenit-4 No. 77	-	-	NIIP-5	LC31	-	-	295	-	-
1970-041	2440739.29	1970 Jun 1 1900:00	Soyuz 11A511	-	Yu15000-021S	Soyuz-9	Soyuz No. 17	-	-	NIIP-5	LC31	-	-	259	-	-
1970-042	2440747.90	1970 Jun 10 0930:01	Voskhod 11A57	-	Yu15002-014	Kosmos-346	Zenit-4 No. 72	-	-	NIIP-5	LC31	-	-	340	-	-
1970-045	2440755.04	1970 Jun 17 1259:57	Voskhod 11A57	-	Yu15002-015	Kosmos-349	Zenit-4 No. 73	-	-	NIIP-53	LC43/4	-	-	334	-	-
1970-047	2440761.09	1970 Jun 23 1415:00	Vostok 8A92M	-	Yu15000-063	Meteor	Meteor-M No. 17	-	-	NIIP-53	LC41/1	-	-	931	-	-
1970-049	2440763.64	1970 Jun 26 0323:01	Molniya 8K78M	M1M	Yu15000-089	Molniya-1	Molniya-1 11F67 No. 21	-	-	NIIP-53	LC43/4	-	-	40100	-	-
1970-050	2440764.00	1970 Jun 26 1200:01	Voskhod 11A57	-	Kh76001-036	Kosmos-350	Zenit-2M	-	-	NIIP-5	LC31	-	-	274	-	-
1970-052	2440774.94	1970 Jul 7 1030:01	Voskhod 11A57	-	Yu15002-016	Kosmos-352	Zenit-4 No. 74	-	-	NIIP-5	LC31	-	-	302	-	-
1970-053	2440777.07	1970 Jul 9 1335:01	Voskhod 11A57	-	Yu15002-028	Kosmos-353	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	302	-	-
1970-F06	2440789.02	1970 Jul 21 1230:01	Voskhod 11A57	-	Yu15002-017	-	Zenit-4 No. 75	-	-	NIIP-53	LC43/4	-	-	50?	-	-
1970-058	2440805.90	1970 Aug 7 0930:00	Voskhod 11A57	-	Yu15002-018	Kosmos-355	Zenit-4 No. 76	-	-	NIIP-53	LC43/4	-	-	325	-	-
1970-060	2440815.73	1970 Aug 17 0538:22	Molniya 8K78M	MVL	Kh15000-062	Venera-7	4V-1 No. 630	-	-	NIIP-5	LC31	-	-	150000	-	-
1970-065	2440820.71	1970 Aug 22 0506:09	Molniya 8K78M	MVL	Kh15000-061	Kosmos-359	4V-1 No. 631	-	-	NIIP-5	LC31	-	-	890	-	-
1970-068	2440827.85	1970 Aug 29 0830:00	Voskhod 11A57	-	Kh76002-045	Kosmos-360	Zenit-4M	-	-	NIIP-5	LC31	-	-	315	-	-
1970-071	2440837.94	1970 Sep 8 1030:00	Voskhod 11A57	-	Kh76002-046	Kosmos-361	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	352	-	-
1970-074	2440846.84	1970 Sep 17 0810:01	Voskhod 11A57	-	Kh76001-034	Kosmos-363	Zenit-2M	-	-	NIIP-5	LC31	-	-	293	-	-
1970-075	2440852.04	1970 Sep 22 1300:01	Voskhod 11A57	-	Yu15000-003	Kosmos-364	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	441	-	-
1970-077	2440858.84	1970 Sep 29 0814:01	Molniya 8K78M	M1M	Yu15000-090	Molniya-1	Molniya-1 11F67 No. 19	-	-	NIIP-53	LC43/4	-	-	40174	-	-
1970-078	2440860.85	1970 Oct 1 0820:03	Voskhod 11A57	-	Yu15002-029	Kosmos-366	Zenit-2M	-	-	NIIP-5	LC1	-	-	295	-	-
1970-080	2440868.03	1970 Oct 8 1239:02	Voskhod 11A57	-	7705711-121	Kosmos-368	Zenit-2M (Bion)	-	-	NIIP-5	LC31	-	-	402	-	-
1970-082	2440868.96	1970 Oct 9 1104:58	Voskhod 11A57	-	Kh76002-049	Kosmos-370	Zenit-4M	-	-	NIIP-5	LC1	-	-	286	-	-
1970-085	2440874.97	1970 Oct 15 1122:02	Vostok 8A92M	-	Yu15000-065	Meteor	Meteor-M No. 16	-	-	NIIP-53	LC41/1	-	-	735	-	-
1970-092	2440890.06	1970 Oct 30 1320:00	Voskhod 11A57	-	Kh76002-047	Kosmos-376	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	299	-	-
1970-096	2440901.89	1970 Nov 11 0920:01	Voskhod 11A57	-	Kh76001-035	Kosmos-377	Zenit-2M	-	-	NIIP-5	LC31	-	-	285	-	-
1970-099	2440914.72	1970 Nov 24 0515:01	Soyuz 11A511L	-	Yu15000-016	Kosmos-379	T2K No. 1	-	-	NIIP-5	LC31	-	-	14041	-	-
1970-101	2440918.16	1970 Nov 27 1547:17	Molniya 8K78M	-	Kh15000-095	Molniya-1	Molniya-1 11F67 No. 23	-	-	NIIP-53	LC43/4	-	-	40154	-	-
1970-104	2440924.08	1970 Dec 3 1355:19	Voskhod 11A57	-	Kh15000-004	Kosmos-383	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	332	-	-
1970-105	2440930.97	1970 Dec 10 1110:00	Voskhod 11A57	-	Yu15002-031	Kosmos-384	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	299	-	-
1970-110	2440935.92	1970 Dec 15 1000:01	Voskhod 11A57	-	Kh76002-051	Kosmos-386	Zenit-4M	-	-	NIIP-5	LC31	-	-	482	-	-
1970-113	2440939.18	1970 Dec 18 1615:00	Vostok 8A92M	-	R 15000-006	Kosmos-389	Tselina-D No. Yu2250-01	-	-	NIIP-53	LC41/1	-	-	730	-	-
1970-114	2440945.66	1970 Dec 25 0350:02	Molniya 8K78M	-	V 15000-078 94	Molniya-1	Molniya-1 11F67 No. 22	-	-	NIIP-5	LC1	-	-	39920	-	-
1971-001	2440963.90	1971 Jan 12 0930:01	Voskhod 11A57	-	7705712-216	Kosmos-390	Zenit-4M	-	-	NIIP-5	LC31	-	-	340	-	-
1971-003	2440971.98	1971 Jan 20 1124:00	Vostok 8A92M	-	Kh15000-005	Meteor	Meteor-M No. 19	-	-	NIIP-53	LC41/1	-	-	736	-	-
1971-004	2440972.86	1971 Jan 21 0840:01	Voskhod 11A57	-	Kh76001-038	Kosmos-392	Zenit-2M	-	-	NIIP-5	LC31	-	-	286	-	-
1971-014	2441001.08	1971 Feb 18 1359:59	Voskhod 11A57	-	Kh76002-048	Kosmos-396	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	296	-	-
1971-016	2441008.71	1971 Feb 26 0506:21	Soyuz 11A511L	-	Yu15000-015	Kosmos-398	T2K No. 2	-	-	NIIP-5	LC31	-	-	10905	-	-
1971-017	2441013.90	1971 Mar 3 0930:01	Voskhod 11A57	-	7705712-220	Kosmos-399	Zenit-4M	-	-	NIIP-5	LC31	-	-	546	-	-
1971-F03	2441015.54	1971 Mar 5 0102:03	Voskhod 11A57	-	Kh76001-037	-	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	20?	-	-
1971-023	2441037.96	1971 Mar 27 1059:59	Voskhod 11A57	-	7705712-219	Kosmos-401	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	437	-	-
1971-026	2441043.85	1971 Apr 2 0820:00	Voskhod 11A57	-	Kh76001-039	Kosmos-403	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	229	-	-
1971-028	2441048.80	1971 Apr 7 0710:01	Vostok 8A92M	-	Yu15000-064	Kosmos-405	Tselina-D	-	-	NIIP-53	LC43/4	-	-	750	-	-
1971-029	2441055.83	1971 Apr 14 0800:00	Voskhod 11A57	-	Kh76002-050	Kosmos-406	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	383	-	-
1971-031	2441058.99	1971 Apr 17 1144:58	Vostok 8A92M	-	Ya15000-059	Meteor	Meteor-M No. 21 (71)	-	-	NIIP-53	LC43/4	-	-	709	-	-
1971-034	2441064.50	1971 Apr 22 2354:06	Soyuz 11A511	-	Kh15000-025	Soyuz-10	Soyuz 7KT-OK No. 31	-	-	NIIP-5	LC1	-	-	232	-	-
1971-040	2441077.76	1971 May 6 0620:01	Voskhod 11A57	-	7705711-122	Kosmos-410	Zenit-2M	-	-	NIIP-5	LC31	-	-	278	-	-
1971-043	2441089.83	1971 May 18 0800:00	Voskhod 11A57	-	7705712-218	Kosmos-420	Zenit-4M	-	-	NIIP-5	LC31	-	-	347	-	-
1971-048	2441099.94	1971 May 28 1030:00	Voskhod 11A57	-	Kh15002-052	Kosmos-424	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	320	-	-
1971-053	2441108.70	1971 Jun 6 0455:09	Soyuz 11A511	-	Kh15000-024	Soyuz-11	Soyuz 7KT-OK No. 32	-	-	NIIP-5	LC1	-	-	273	-	-
1971-055	2441113.92	1971 Jun 11 1000:00	Voskhod 11A57	-	7801424-715	Kosmos-427	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	351	-	-
1971-057	2441126.83	1971 Jun 24 0759:59	Voskhod 11A57	-	7705711-123	Kosmos-428	Zenit-2M	-	-	NIIP-5	LC31	-	-	257	-	-
1971-F05	2441127.94	1971 Jun 25 1030:01	Voskhod 11A57	-	7801422-235	-	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	20?	-	-
1971-059	2441148.57	1971 Jul 16 0141:36	Vostok 8A92M	-	7705711-308	Meteor	Meteor-M No. 20	-	-	NIIP-53	LC43/4	-	-	720	-	-
1971-061	2441152.92	1971 Jul 20 1000:00	Voskhod 11A57	-	7705712-221	Kosmos-429	Zenit-4M	-	-	NIIP-5	LC31	-	-	365	-	-
1971-062	2441155.96	1971 Jul 23 1100:09	Voskhod 11A57	-	7705712-215	Kosmos-430	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	333	-	-
1971-064	2441160.65	1971 Jul 28 0329:01	Molniya 8K78M	-	Kh15000-096	Molniya-1	Molniya-1 11F67 No. 20	-	-	NIIP-53	LC43/4	-	-	40115	-	-
1971-065	2441162.85	1971 Jul 30 0829:54	Voskhod 11A57	-	7801421-141	Kosmos-431	Zenit-2M	-	-	NIIP-5	LC31	-	-	284	-	-
1971-066	2441168.92	1971 Aug 5 1000:00	Voskhod 11A57	-	7801422-242	Kosmos-432	Zenit-4M	-	-	NIIP-5	LC31	-	-	316	-	-
1971-069	2441175.73	1971 Aug 12 0530:00	Soyuz 11A511L	-	Yu15000-017	Kosmos-434	T2K No. 3	-	-	NIIP-5	LC31	-	-	11821	-	-
1971-F09	2441182.77	1971 Aug 19 0630:00	Voskhod 11A57	-	Kh76001-040	-	Zenit-2M	-	-	NIIP-5	LC31	-	-	40?	-	-
1971-077	2441209.04	1971 Sep 14 1300:29	Voskhod 11A57	-	7702424-716	Kosmos-438	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	321	-	-
1971-078	2441216.00	1971 Sep 21 1200:00	Voskhod 11A57	-	7705711-124	Kosmos-439	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	342	-	-
1971-081	2441222.82	1971 Sep 28 0740:00	Voskhod 11A57	-	7705712-224 ?	Kosmos-441	Zenit-4M	-	-	NIIP-5	LC31	-	-	405	-	-
1971-084	2441223.98	1971 Sep 29 1130:01	Voskhod 11A57	-	7705712-222	Kosmos-442	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	331	-	-
1971-085	2441232.02	1971 Oct 7 1230:00	Voskhod 11A57	-	7801421-135	Kosmos-443	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	306	-	-
1971-088	2441238.88	1971 Oct 14 0900:01	Voskhod 11A57	-	7705712-223	Kosmos-452	Zenit-4M	-	-	NIIP-5	LC31	-	-	444	-	-
1971-094	2441258.10	1971 Nov 2 1425:02	Voskhod 11A57	-	7705712-217	Kosmos-454	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	496	-	-
1971-098	2441275.00	1971 Nov 19 1200:01	Voskhod 11A57	-	7705712-214	Kosmos-456	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	357	-	-
1971-100	2441279.90	1971 Nov 24 0930:02	Molniya 8K78M	-	Yu15000-092	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/4	-	-	40124	-	-
1971-F12	2441289.04	1971 Dec 3 1300:01	Voskhod 11A57	-	7801421-137	-	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	0	-	-
1971-107	2441291.91	1971 Dec 6 0950:01	Voskhod 11A57	-	Kh76002-053	Kosmos-463	Zenit-4M	-	-	NIIP-5	LC31	-	-	294	-	-
1971-108	2441295.96	1971 Dec 10 1100:00	Voskhod 11A57	-	7801422-238	Kosmos-464	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	390	-	-
1971-112	2441301.90	1971 Dec 16 0939:59	Voskhod 11A57	-	7801422-236	Kosmos-466	Zenit-4M	-	-	NIIP-5	LC31	-	-	375	-	-
1971-115	2441305.45	1971 Dec 19 2250:12	Molniya 8K78M	-	7705711-497	Molniya-1	Molniya-1 11F67 No. 25	-	-	NIIP-53	LC43/4	-	-	40191	-	-
1971-118	2441313.09	1971 Dec 27 1404:51	Soyuz 11A511M	-	Yu15000-001	Kosmos-470	Zenit-4MT	-	-	NIIP-53	LC41/1	-	-	323	-	-
1971-120	2441314.95	1971 Dec 29 1050:01	Vostok 8A92M	-	7705711-307	Meteor	Meteor-MV No. 18	-	-	NIIP-53	LC41/1	-	-	928	-	-
1972-001	2441328.92	1972 Jan 12 0959:59	Voskhod 11A57	-	7702423-247	Kosmos-471	Zenit-4M	-	-	NIIP-5	LC31	-	-	452	-	-
1972-006	2441350.86	1972 Feb 3 0840:00	Voskhod 11A57	-	7801421-136	Kosmos-473	Zenit-2M	-	-	NIIP-5	LC31	-	-	344	-	-
1972-008	2441363.90	1972 Feb 16 0930:00	Voskhod 11A57	-	7801422-240	Kosmos-474	Zenit-4M	-	-	NIIP-5	LC31	-	-	399	-	-
1972-011	2441377.97	1972 Mar 1 1115:00	Vostok 8A92M	-	S 15000-009	Kosmos-476	Tselina-D	-	-	NIIP-53	LC43/4	-	-	693	-	-
1972-013	2441380.92	1972 Mar 4 1000:00	Voskhod 11A57	-	7801421-138	Kosmos-477	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	307	-	-
1972-015	2441392.04	1972 Mar 15 1300:01	Voskhod 11A57	-	7702423-252	Kosmos-478	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	362	-	-
1972-021	2441403.68	1972 Mar 27 0415:01	Molniya 8K78M	MVL	S 15000-063	Venera-8	4V-1 No. 670	-	-	NIIP-5	LC31	-	-	150000	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-022	2441407.09	1972 Mar 30 1405:01	Vostok 8A92M	-	7702421-334	Meteor	Meteor-MV No. 23	-	-	NIIP-53	LC41/1	-	-	931	-	-
1972-023	2441407.67	1972 Mar 31 0402:33	Molniya 8K78M	MVL	7801421-513	Kosmos-482	4V-1 No. 671	-	-	NIIP-5	LC31	-	-	9801	-	-
1972-024	2441410.93	1972 Apr 3 1015:00	Voskhod 11A57	-	7801422-245	Kosmos-483	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	333	-	-
1972-025	2441412.36	1972 Apr 4 2038:30	Molniya 8K78M	-	Yu15000-093	Molniya-1	Molniya-1 11F67 No. 27	-	-	NIIP-53	LC43/4	-	-	40136	-	-
1972-026	2441413.83	1972 Apr 6 0800:00	Voskhod 11A57	-	7801421-139	Kosmos-484	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	235	-	-
1972-027	2441414.92	1972 Apr 7 1000:00	Voskhod 11A57	-	Kh15000-013	Interkosmos-6	Energiya No. 1	-	-	NIIP-5	LC31	-	-	335	-	-
1972-029	2441421.54	1972 Apr 14 0054:36	Molniya 8K78M	SOL	Kh15000-079	Prognoz	SO No. 501	-	-	NIIP-5	LC31	-	-	150000	-	-
1972-030	2441421.83	1972 Apr 14 0800:00	Voskhod 11A57	-	7702423-253	Kosmos-486	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	315	-	-
1972-034	2441442.97	1972 May 5 1120:00	Voskhod 11A57	-	7702424-717	Kosmos-488	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	360	-	-
1972-036	2441454.93	1972 May 17 1019:59	Voskhod 11A57	-	7701421-140	Kosmos-490	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	338	-	-
1972-037	2441457.10	1972 May 19 1430:03	Molniya 8K78M	-	Yu15000-091	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/4	-	-	40139	-	-
1972-038	2441462.77	1972 May 25 0635:00	Voskhod 11A57	-	7801422-244	Kosmos-491	Zenit-4M	-	-	NIIP-5	LC31	-	-	402	-	-
1972-040	2441477.79	1972 Jun 9 0659:59	Voskhod 11A57	-	7702423-250	Kosmos-492	Zenit-4M	-	-	NIIP-5	LC31	-	-	334	-	-
1972-042	2441489.77	1972 Jun 21 0625:00	Voskhod 11A57	-	7801421-142	Kosmos-493	Zenit-2M	-	-	NIIP-5	LC31	-	-	273	-	-
1972-044	2441491.97	1972 Jun 23 1119:57	Voskhod 11A57	-	7801422-239	Kosmos-495	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	358	-	-
1972-045	2441495.12	1972 Jun 26 1453:00	Soyuz 11A511	-	Yu15000-020	Kosmos-496	Soyuz 7K-T No. 33A	-	-	NIIP-5	LC1	-	-	330	-	-
1972-046	2441497.66	1972 Jun 29 0347:35	Molniya 8K78M	SOL	M 15000-108	Prognoz-2	SO-M No. 503	-	-	NIIP-5	LC31	-	-	150000	-	-
1972-049	2441499.29	1972 Jun 30 1852:01	Vostok 8A92M	-	7801421-333	Meteor	Meteor-MV No. 26	-	-	NIIP-53	LC41/1	-	-	943	-	-
1972-051	2441504.94	1972 Jul 6 1040:00	Voskhod 11A57	-	7702423-246	Kosmos-499	Zenit-4M	-	-	NIIP-5	LC31	-	-	295	-	-
1972-055	2441512.10	1972 Jul 13 1430:25	Soyuz 11A511M	-	Kh15000-002	Kosmos-502	Zenit-4MT	-	-	NIIP-53	LC43/4	-	-	308	-	-
1972-056	2441518.07	1972 Jul 19 1345:00	Voskhod 11A57	-	78033 -267	Kosmos-503	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	320	-	-
1972-059	2441526.93	1972 Jul 28 1019:00	Voskhod 11A57	-	7702421-143	Kosmos-512	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	274	-	-
1972-060	2441531.84	1972 Aug 2 0815:00	Voskhod 11A57	-	78033 -266	Kosmos-513	Zenit-4M	-	-	NIIP-5	LC31	-	-	462	-	-
1972-063	2441547.92	1972 Aug 18 1000:01	Voskhod 11A57	-	7702424-718	Kosmos-515	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	332	-	-
1972-067	2441559.85	1972 Aug 30 0819:59	Voskhod 11A57	-	7702421-144	Kosmos-517	Zenit-2M	-	-	NIIP-5	LC31	-	-	290	-	-
1972-F05	2441562.95	1972 Sep 2 1049:59	Voskhod 11A57	-	78033- 271	-	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	50?	-	-
1972-070	2441575.90	1972 Sep 15 0940:00	Voskhod 11A57	-	78033- 156	Kosmos-518	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	307	-	-
1972-071	2441576.85	1972 Sep 16 0820:00	Voskhod 11A57	-	78033 -268	Kosmos-519	Zenit-4M	-	-	NIIP-5	LC31	-	-	489	-	-
1972-072	2441580.30	1972 Sep 19 1919:03	Molniya 8K78M	2BL	S 15000-100	Kosmos-520	Oko	-	-	NIIP-53	LC41/1	-	-	39477	-	-
1972-075	2441591.35	1972 Sep 30 2019:01	Molniya 8K78M	-	S 15000-106	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40123	-	-
1972-077	2441595.00	1972 Oct 4 1200:02	Voskhod 11A57	-	78033- 272	Kosmos-522	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	450	-	-
1972-081	2441604.76	1972 Oct 14 0616:00	Molniya 8K78M	-	7705711-498	Molniya-1	Molniya-1 11F67 No. 26	-	-	NIIP-53	LC41/1	-	-	40152	-	-
1972-083	2441609.00	1972 Oct 18 1159:59	Voskhod 11A57	-	76043- 161	Kosmos-525	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	291	-	-
1972-085	2441617.42	1972 Oct 26 2205:01	Vostok 8A92M	-	Kh15000-006	Meteor	Meteor-M No. 25	-	-	NIIP-53	LC43/4	-	-	926	-	-
1972-086	2441622.06	1972 Oct 31 1329:59	Voskhod 11A57	-	78033- 729	Kosmos-527	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	341	-	-
1972-093	2441646.88	1972 Nov 25 0910:01	Voskhod 11A57	-	78033 -157	Kosmos-537	Zenit-2M	-	-	NIIP-5	LC31	-	-	308	-	-
1972-095	2441653.69	1972 Dec 2 0439:57	Molniya 8K78M	-	7801421-512	Molniya-1	Molniya-1 11F67 No. 28	-	-	NIIP-5	LC1	-	-	40164	-	-
1972-098	2441663.79	1972 Dec 12 0651:01	Molniya 8K78M	-	76043- 537	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40094	-	-
1972-099	2441666.07	1972 Dec 14 1340:02	Voskhod 11A57	-	76043- 274	Kosmos-538	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	338	-	-
1972-105	2441678.94	1972 Dec 27 1030:04	Soyuz 11A511M	-	S 15000-003	Kosmos-541	Zenit-4MT	-	-	NIIP-53	LC41/1	-	-	384	-	-
1972-106	2441679.96	1972 Dec 28 1100:00	Vostok 8A92M	-	S 15000-012	Kosmos-542	Tselina-D	-	-	NIIP-53	LC43/4	-	-	659	-	-
1973-002	2441693.92	1973 Jan 11 1000:00	Voskhod 11A57	-	78033 -270	Kosmos-543	Zenit-4M	-	-	NIIP-5	LC31	-	-	309	-	-
1973-006	2441714.85	1973 Feb 1 0830:00	Voskhod 11A57	-	78033 -159	Kosmos-547	Zenit-2M	-	-	NIIP-5	LC31	-	-	310	-	-
1973-007	2441716.74	1973 Feb 3 0548:59	Molniya 8K78M	-	7801421-514	Molniya-1	Molniya-1 11F67 No. 31	-	-	NIIP-5	LC1	-	-	40124	-	-
1973-008	2441722.05	1973 Feb 8 1315:00	Voskhod 11A57	-	7801422-237	Kosmos-548	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	452	-	-
1973-009	2441728.55	1973 Feb 15 0111:53	Molniya 8K78M	SOL	M 15000-118	Prognoz-3	SO-M No. 502	-	-	NIIP-5	LC31	-	-	150000	-	-
1973-011	2441743.03	1973 Mar 1 1240:02	Voskhod 11A57	-	78033- 730	Kosmos-550	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	431	-	-
1973-012	2441747.89	1973 Mar 6 0920:00	Voskhod 11A57	-	7702423-249	Kosmos-551	Zenit-4M	-	-	NIIP-5	LC31	-	-	397	-	-
1973-015	2441761.97	1973 Mar 20 1120:02	Vostok 8A92M	-	7702421-335	Meteor	Meteor-M No. 29	-	-	NIIP-53	LC41/1	-	-	933	-	-
1973-016	2441763.92	1973 Mar 22 1000:00	Voskhod 11A57	-	78033- 158	Kosmos-552	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	310	-	-
1973-018	2441777.97	1973 Apr 5 1111:00	Molniya 8K78M	-	M 15000-115	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40079	-	-
1973-021	2441791.87	1973 Apr 19 0859:59	Voskhod 11A57	-	76043 -733	Kosmos-554	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	381	-	-
1973-024	2441797.95	1973 Apr 25 1045:00	Voskhod 11A57	-	77019 -173	Kosmos-555	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	231	-	-
1973-025	2441807.79	1973 May 5 0700:00	Voskhod 11A57	-	77019 -751	Kosmos-556	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	265	-	-
1973-030	2441820.96	1973 May 18 1100:02	Soyuz-U	-	76043 -731	Kosmos-559	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	323	-	-
1973-031	2441825.94	1973 May 23 1030:00	Voskhod 11A57	-	7702423-248	Kosmos-560	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	328	-	-
1973-033	2441828.06	1973 May 25 1330:01	Voskhod 11A57	-	78033 -160	Kosmos-561	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	294	-	-
1973-034	2441831.93	1973 May 29 1016:03	Vostok 8A92M	-	7702421-335? (336?)	Meteor	Meteor-M No. 27	-	-	NIIP-53	LC41/1	-	-	921	-	-
1973-036	2441839.98	1973 Jun 6 1130:00	Voskhod 11A57	-	7801422-241	Kosmos-563	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	318	-	-
1973-038	2441843.92	1973 Jun 10 1010:00	Voskhod 11A57	-	7702423-251	Kosmos-572	Zenit-4M	-	-	NIIP-5	LC1	-	-	301	-	-
1973-041	2441848.75	1973 Jun 15 0600:00	Soyuz 11A511	-	S 15000-027	Kosmos-573	Soyuz 7K-T No. 36	-	-	NIIP-5	LC1	-	-	401	-	-
1973-043	2441855.06	1973 Jun 21 1329:57	Voskhod 11A57	-	77019 -176	Kosmos-575	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	287	-	-
1973-044	2441860.99	1973 Jun 27 1150:01	Soyuz 11A511M	-	Kh15000-004	Kosmos-576	Zenit-4MT	-	-	NIIP-53	LC41/1	-	-	476	-	-
1973-F05	2441867.96	1973 Jul 4 1059:59	Voskhod 11A57	-	7801422-243	-	Zenit-4M	-	-	NIIP-53	LC43/3	-	-	50?	-	-
1973-045	2441874.92	1973 Jul 11 0958:00	Molniya 8K78M	-	76043 -533	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40068	-	-
1973-048	2441888.98	1973 Jul 25 1130:00	Voskhod 11A57	-	7702423-254	Kosmos-577	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	377	-	-
1973-051	2441896.08	1973 Aug 1 1400:01	Voskhod 11A57	-	77019 -174	Kosmos-578	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	381	-	-
1973-055	2441916.02	1973 Aug 21 1230:01	Voskhod 11A57	-	78033 -265	Kosmos-579	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	312	-	-
1973-059	2441918.96	1973 Aug 24 1059:55	Voskhod 11A57	-	76043 -273	Kosmos-581	Zenit-4M	-	-	NIIP-5	LC1	-	-	288	-	-
1973-061	2441924.51	1973 Aug 30 0007:59	Molniya 8K78M	-	7705711-499	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40101	-	-
1973-062	2441924.94	1973 Aug 30 1030:02	Voskhod 11A57	-	76043 -162	Kosmos-583	Zenit-2M	-	-	NIIP-5	LC1	-	-	297	-	-
1973-063	2441931.94	1973 Sep 6 1040:01	Voskhod 11A57	-	77019 -285	Kosmos-584	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	361	-	-
1973-066	2441947.05	1973 Sep 21 1305:01	Soyuz-U	-	76043 -732	Kosmos-587	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	334	-	-
1973-067	2441953.01	1973 Sep 27 1218:16	Soyuz 11A511	-	S 15000-026	Soyuz-12	Soyuz 7K-T No. 37	-	-	NIIP-5	LC1	-	-	348	-	-
1973-070	2441959.04	1973 Oct 3 1300:00	Voskhod 11A57	-	7702421-145	Kosmos-596	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	286	-	-
1973-071	2441962.02	1973 Oct 6 1230:00	Voskhod 11A57	-	76043 -736	Kosmos-597	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	289	-	-
1973-072	2441965.95	1973 Oct 10 1045:00	Voskhod 11A57	-	77019 -286	Kosmos-598	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	333	-	-
1973-073	2441970.86	1973 Oct 15 0845:00	Voskhod 11A57	-	77019 -175	Kosmos-599	Zenit-2M	-	-	NIIP-5	LC1	-	-	300	-	-
1973-074	2441972.00	1973 Oct 16 1200:04	Voskhod 11A57	-	77019 -288	Kosmos-600	Zenit-4M	-	-	NIIP-53	LC43/4	-	-	354	-	-
1973-076	2441974.93	1973 Oct 19 1026:01	Molniya 8K78M	-	77019 -549	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40820	-	-
1973-077	2441975.93	1973 Oct 20 1014:58	Voskhod 11A57	-	76019 -752	Kosmos-602	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	340	-	-
1973-079	2441982.97	1973 Oct 27 1109:59	Voskhod 11A57	-	77019 -287	Kosmos-603	Zenit-4M	-	-	NIIP-53	LC41/1	-	-	358	-	-
1973-080	2441985.08	1973 Oct 29 1400:14	Vostok 8A92M	-	M 15000-020	Kosmos-604	Tselina-D	-	-	NIIP-53	LC43/4	-	-	677	-	-
1973-083	2441987.27	1973 Oct 31 1824:59	Soyuz-U	-	A 15000-004	Kosmos-605	Bion No. 1	-	-	NIIP-53	LC43/3	-	-	439	-	-
1973-084	2441989.04	1973 Nov 2 1301:56	Molniya 8K78M	2BL	M 15000-116	Kosmos-606	Oko	-	-	NIIP-53	LC41/1	-	-	39707	-	-
1973-087	2441997.03	1973 Nov 10 1238:27	Voskhod 11A57	-	76029 -758	Kosmos-607	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	353	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-089	2442001.36	1973 Nov 14 2040:02	Molniya 8K78M	-	78014 -215-15	Molniya-1	Molniya-1 11F67 No. 32	-	-	NIIP-5	LC1	-	-	40037	-	-
1973-092	2442007.92	1973 Nov 21 1000:00	Voskhod 11A57	-	77019 -177	Kosmos-609	Zenit-4M	-	-	NIIP-5	LC1	-	-	338	-	-
1973-095	2442014.99	1973 Nov 28 1143:05	Voskhod 11A57	-	76029 -759	Kosmos-612	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	345	-	-
1973-096	2442016.72	1973 Nov 30 0520:00	Soyuz 11A511	-	S 15000-029	Kosmos-613	Soyuz 7K-T No. 34A	-	-	NIIP-5	LC1	-	-	397	-	-
1973-097	2442017.05	1973 Nov 30 1308:59	Molniya 8K78M	-	77019 -550	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40937	-	-
1973-102	2442034.00	1973 Dec 17 1200:01	Soyuz 11A511M	-	76043 -825	Kosmos-616	Zenit-4MT	-	-	NIIP-53	LC41/1	-	-	330	-	-
1973-103	2442035.00	1973 Dec 18 1155:00	Soyuz 11A511	-	S 15000-028	Soyuz-13	Soyuz 7K-T No. 33	-	-	NIIP-5	LC1	-	-	310	-	-
1973-105	2442038.02	1973 Dec 21 1230:00	Voskhod 11A57	-	76029 -755	Kosmos-625	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	341	-	-
1973-106	2442041.97	1973 Dec 25 1117:00	Molniya 8K78M	-	76029 -555	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40879	-	-
1974-003	2442072.13	1974 Jan 24 1500:01	Voskhod 11A57	-	77019 -178	Kosmos-629	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	332	-	-
1974-004	2442077.96	1974 Jan 30 1100	Voskhod 11A57	-	78033 -735	Kosmos-630	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	344	-	-
1974-006	2442090.87	1974 Feb 12 0856:00	Voskhod 11A57	-	77019 -290	Kosmos-632	Zenit-4M	-	-	NIIP-5	LC31	-	-	382	-	-
1974-011	2442111.98	1974 Mar 5 1138:00	Vostok 8A92M	-	76043 -350	Meteor	Meteor-M No. 30	-	-	NIIP-53	LC43/4	-	-	930	-	-
1974-014	2442120.94	1974 Mar 14 1029:59	Voskhod 11A57	-	78031 -191	Kosmos-635	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	348	-	-
1974-016	2442126.85	1974 Mar 20 0830:00	Soyuz-U	-	A 15000-006	Kosmos-636	Zenit-4MK	-	-	NIIP-5	LC31	-	-	420	-	-
1974-018	2442140.81	1974 Apr 3 0730:00	Soyuz-U	-	A 15000-009	Kosmos-638	Soyuz 7K-TM No. 71-EPSA	-	-	NIIP-5	LC31	-	-	353	-	-
1974-019	2442141.85	1974 Apr 4 0830	Voskhod 11A57	-	76043 -734	Kosmos-639	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	402	-	-
1974-021	2442149.02	1974 Apr 11 1222:59	Voskhod 11A57	-	78031 -192	Kosmos-640	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	225	-	-
1974-F02	2442149.83	1974 Apr 12 0800:01	Voskhod 11A57	-	76029 -757	-	Zenit-4MK	-	-	NIIP-5	LC31	-	-	170?	-	-
1974-023	2442158.37	1974 Apr 20 2053:44	Molniya 8K78M	ML	7702421-516	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/4	-	-	40904	-	-
1974-025	2442161.99	1974 Apr 24 1150:00	Vostok 8A92M	-	78033 -347	Meteor	Meteor-M No. 22	-	-	NIIP-53	LC43/4	-	-	927	-	-
1974-026	2442164.10	1974 Apr 26 1422:59	Molniya 8K78M	-	76029 -554	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	41093	-	-
1974-027	2442167.06	1974 Apr 29 1329:59	Voskhod 11A57	-	76043 -737 ?	Kosmos-649	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	299	-	-
1974-030	2442182.85	1974 May 15 0830:00	Soyuz-U	-	A 15000-008	Kosmos-652	Zenit-4MK	-	-	NIIP-5	LC31	-	-	441	-	-
1974-031	2442183.02	1974 May 15 1230	Voskhod 11A57	-	78031 -193	Kosmos-653	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	320	-	-
1974-F03	2442191.01	1974 May 23 1216:51	Soyuz-U	-	A 15000-005	-	Yantar'-2K No. 1	-	-	NIIP-53	LC43/3	-	-	170?	-	-
1974-036	2442194.81	1974 May 27 0725:00	Soyuz 11A511	-	A 15000-032	Kosmos-656	Soyuz 7K-T(A9) No. 61	-	-	NIIP-5	LC1	-	-	373	-	-
1974-038	2442198.03	1974 May 30 1244:59	Voskhod 11A57	-	76029 -762	Kosmos-657	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	314	-	-
1974-041	2442204.76	1974 Jun 6 0620:00	Voskhod 11A57	-	77033 -267	Kosmos-658	Zenit-2M	-	-	NIIP-5	LC31	-	-	285	-	-
1974-043	2442212.02	1974 Jun 13 1229:59	Voskhod 11A57	-	77019 -753?	Kosmos-659	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	374	-	-
1974-049	2442228.03	1974 Jun 29 1250:02	Soyuz 11A511M	-	7602983- 7	Kosmos-664	Zenit-4MT	-	-	NIIP-53	LC43/4	-	-	362	-	-
1974-050	2442228.17	1974 Jun 29 1559:58	Molniya 8K78M	2BL	A 15000-121	Kosmos-665	Oko	-	-	NIIP-53	LC41/1	-	-	40095	-	-
1974-051	2442232.29	1974 Jul 3 1851:08	Soyuz 11A511	-	S 15000-031	Soyuz-14	Soyuz 7K-T(A9) No. 62	-	-	NIIP-5	LC1	-	-	338	-	-
1974-052	2442238.11	1974 Jul 9 1439:58	Vostok 8A92M	-	76043 -349	Meteor	Meteor-Priroda No. 1	-	-	NIIP-53	LC43/4	-	-	921	-	-
1974-053	2442241.03	1974 Jul 12 1250:01	Voskhod 11A57	-	76029 -761	Kosmos-666	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	471	-	-
1974-056	2442251.56	1974 Jul 23 0123:01	Molniya 8K78M	-	78033 -529	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/4	-	-	40928	-	-
1974-057	2442253.79	1974 Jul 25 0700:00	Voskhod 11A57	-	77019 -289	Kosmos-667	Zenit-4M	-	-	NIIP-5	LC31	-	-	320	-	-
1974-059	2442254.79	1974 Jul 26 0659:59	Voskhod 11A57	-	76029 -180	Kosmos-669	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	231	-	-
1974-061	2442265.50	1974 Aug 6 0002:00	Soyuz-U	-	K 15000-011	Kosmos-670	Soyuz 7K-S No. 1L	-	-	NIIP-5	LC1	-	-	292	-	-
1974-062	2442267.03	1974 Aug 7 1249:59	Voskhod 11A57	-	76029 -760	Kosmos-671	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	366	-	-
1974-064	2442271.77	1974 Aug 12 0625:02	Soyuz-U	-	K 15000-007	Kosmos-672	Soyuz 7K-TM No. 72-EPSA	-	-	NIIP-5	LC31	-	-	304	-	-
1974-066	2442275.65	1974 Aug 16 0341	Vostok 8A92M	-	78033 -325	Kosmos-673	Tselina-D	-	-	NIIP-53	LC43/4	-	-	678	-	-
1974-067	2442286.33	1974 Aug 26 1958:05	Soyuz 11A511	-	S 15000-030	Soyuz-15	Soyuz 7K-T(A9) No. 63	-	-	NIIP-5	LC1	-	-	293	-	-
1974-068	2442288.82	1974 Aug 29 0739:59	Voskhod 11A57	-	78031 -774	Kosmos-674	Zenit-4MK	-	-	NIIP-5	LC31	-	-	323	-	-
1974-F06	2442289.88	1974 Aug 30 0900:01	Voskhod 11A57	-	78031 -196	-	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	200?	-	-
1974-073	2442310.90	1974 Sep 20 0930:00	Voskhod 11A57	-	78031 -194	Kosmos-685	Zenit-2M	-	-	NIIP-5	LC31	-	-	295	-	-
1974-078	2442339.12	1974 Oct 18 1500	Voskhod 11A57	-	77019 -754	Kosmos-688	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	351	-	-
1974-080	2442343.25	1974 Oct 22 1759:59	Soyuz-U	-	K 15000-010	Kosmos-690	Bion No. 2	-	-	NIIP-53	LC43/4	-	-	595	-	-
1974-081	2442345.03	1974 Oct 24 1238:41	Molniya 8K78M	-	78033 -528	Molniya-1	Molniya-1 No. 26	-	-	NIIP-53	LC41/1	-	-	40824	-	-
1974-082	2442345.90	1974 Oct 25 0930:01	Soyuz-U	-	K 15000-012	Kosmos-691	Zenit-4MK	-	-	NIIP-5	LC31	-	-	330	-	-
1974-083	2442348.93	1974 Oct 28 1017:00	Vostok 8A92M	-	77019 -352	Meteor	Meteor-M No. 33	-	-	NIIP-53	LC43/4	-	-	928	-	-
1974-087	2442353.10	1974 Nov 1 1420	Voskhod 11A57	-	78031 -179	Kosmos-692	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	344	-	-
1974-088	2442355.94	1974 Nov 4 1040	Soyuz 11A511M	-	76029 -836	Kosmos-693	Zenit-4MT	-	-	NIIP-53	LC41/1	-	-	241	-	-
1974-090	2442367.99	1974 Nov 16 1145	Voskhod 11A57	-	76029 -763	Kosmos-694	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	335	-	-
1974-092	2442372.94	1974 Nov 21 1033:01	Molniya 8K78M	-	78031 -572	Molniya-3	Molniya-3 No. 11	-	-	NIIP-53	LC41/1	-	-	40818	-	-
1974-095	2442378.99	1974 Nov 27 1144:59	Voskhod 11A57	-	78031 -197	Kosmos-696	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	375	-	-
1974-096	2442383.90	1974 Dec 2 0940:00	Soyuz-U	-	K 15000-014	Soyuz-16	Soyuz 7K-TM No. 73-EPSA	-	-	NIIP-5	LC1	-	-	575	-	-
1974-098	2442395.06	1974 Dec 13 1330	Soyuz-U	-	A 15000-003	Kosmos-697	Yantar'-2K No. 2	-	-	NIIP-53	LC43/3	-	-	394	-	-
1974-099	2442398.99	1974 Dec 17 1145:00	Vostok 8A92M	-	77019 -353	Meteor	Meteor-M No. 32	-	-	NIIP-53	LC43/4	-	-	923	-	-
1974-102	2442402.60	1974 Dec 21 0219:59	Molniya 8K78M	-	78033 -530	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40909	-	-
1974-106	2442408.88	1974 Dec 27 0910:00	Voskhod 11A57	-	76043 -738	Kosmos-701	Zenit-4MK	-	-	NIIP-5	LC31	-	-	373	-	-
1975-001	2442423.41	1975 Jan 10 2143:37	Soyuz 11A511	-	Kh15000-022	Soyuz-17	Soyuz 7K-T No. 38	-	-	NIIP-5	LC1	-	-	360	-	-
1975-002	2442429.88	1975 Jan 17 0900:00	Voskhod 11A57	-	Kh76001- 33	Kosmos-702	Zenit-2M	-	-	NIIP-5	LC31	-	-	313	-	-
1975-005	2442435.96	1975 Jan 23 1100	Voskhod 11A57	-	78031 -775	Kosmos-704	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	397	-	-
1975-007	2442443.13	1975 Jan 30 1502	Molniya 8K78M	2BL	78031 -574	Kosmos-706	Oko	-	-	NIIP-53	LC41/1	-	-	39821	-	-
1975-009	2442449.70	1975 Feb 6 0449	Molniya 8K78M	-	76043 -532	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40890	-	-
1975-013	2442456.10	1975 Feb 12 1430	Voskhod 11A57	-	78031 -777? (177)	Kosmos-709	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	315	-	-
1975-015	2442469.88	1975 Feb 26 0900:00	Voskhod 11A57	-	78031 -778	Kosmos-710	Zenit-4MK	-	-	NIIP-5	LC31	-	-	383	-	-
1975-018	2442483.87	1975 Mar 12 0855:00	Voskhod 11A57	-	77019 -750	Kosmos-719	Zenit-4MK	-	-	NIIP-5	LC31	-	-	322	-	-
1975-019	2442492.78	1975 Mar 21 0650	Soyuz-U	-	76041 -851	Kosmos-720	Zenit-4MT	-	-	NIIP-53	LC43/3	-	-	891	-	-
1975-020	2442497.87	1975 Mar 26 0850	Voskhod 11A57	-	76041 -199	Kosmos-721	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	283	-	-
1975-021	2442498.83	1975 Mar 27 0800:00	Voskhod 11A57	-	78031 -781	Kosmos-722	Zenit-4MK	-	-	NIIP-5	LC31	-	-	417	-	-
1975-023	2442504.02	1975 Apr 1 1230:00	Vostok 8A92M	-	76041 -366	Meteor	Meteor-M No. 31	-	-	NIIP-53	LC41/1	-	-	920	-	-
1975-F02	2442507.96	1975 Apr 5 1104:54	Soyuz 11A511	-	Kh15000-023	Soyuz	Soyuz 7K-T No. 39	-	-	NIIP-5	LC1	-	-	192	-	-
1975-029	2442517.25	1975 Apr 14 1752:59	Molniya 8K78M	ML	76043 -531	Molniya-3	Molniya-3 No. 12	-	-	NIIP-53	LC41/1	-	-	40829	-	-
1975-030	2442518.83	1975 Apr 16 0800:01	Soyuz-U	-	76041 -849	Kosmos-727	Zenit-4MK	-	-	NIIP-5	LC31	-	-	334	-	-
1975-031	2442520.92	1975 Apr 18 1000	Voskhod 11A57	-	77016 -212	Kosmos-728	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	326	-	-
1975-035	2442526.84	1975 Apr 24 0804:59	Voskhod 11A57	-	76041 -788	Kosmos-730	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	287	-	-
1975-036	2442531.93	1975 Apr 29 1023:59	Molniya 8K78M	ML	M 15000-064	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40850	-	-
1975-041	2442553.79	1975 May 21 0659:32	Voskhod 11A57	-	78031 -195	Kosmos-731	Zenit-2M	-	-	NIIP-5	LC31	-	-	462	-	-
1975-044	2442557.12	1975 May 24 1458:10	Soyuz 11A511	-	F 15000-033	Soyuz-18	Soyuz 7K-T No. 40	-	-	NIIP-5	LC1	-	-	381	-	-
1975-046	2442560.81	1975 May 28 0729:59	Voskhod 11A57	-	77016 -655	Kosmos-740	Zenit-4MK	-	-	NIIP-5	LC31	-	-	327	-	-
1975-047	2442562.78	1975 May 30 0645	Voskhod 11A57	-	77016 -215	Kosmos-741	Gektor-Priroda	-	-	NIIP-53	LC43/3	-	-	232	-	-
1975-048	2442567.06	1975 Jun 3 1320:48	Voskhod 11A57	-	76029 -756	Kosmos-742	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	380	-	-
1975-049	2442568.57	1975 Jun 5 0137:59	Molniya 8K78M	ML	76041 -579	Molniya-1	Molniya-1 No. 24	-	-	NIIP-53	LC41/1	-	-	40855	-	-
1975-053	2442576.02	1975 Jun 12 1230:27	Soyuz-U	-	76041 -850	Kosmos-743	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	345	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-056	2442583.79	1975 Jun 20 0654	Vostok 8A92M	-	76043 -324	Kosmos-744	Tselina-D	-	-	NIIP-53	LC41/1	-	-	818	-	-
1975-059	2442589.04	1975 Jun 25 1259:58	Voskhod 11A57	-	76041 -785	Kosmos-746	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	340	-	-
1975-060	2442591.04	1975 Jun 27 1300	Voskhod 11A57	-	76041 -198	Kosmos-747	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	344	-	-
1975-061	2442597.07	1975 Jul 3 1340	Voskhod 11A57	-	76041 -776	Kosmos-748	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	354	-	-
1975-063	2442601.71	1975 Jul 8 0505	Molniya 8K78M	ML	78019 -552	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40895	-	-
1975-064	2442604.68	1975 Jul 11 0415:00	Vostok 8A92M	-	77016 -383	Meteor-2	Meteor-2 No. 1	-	-	NIIP-53	LC41/1	-	-	957	-	-
1975-065	2442609.01	1975 Jul 15 1220:00	Soyuz-U	-	F 15000-017	Soyuz-19	Soyuz 7K-TM No. 75	-	-	NIIP-5	LC1	-	-	240	-	-
1975-068	2442617.04	1975 Jul 23 1300	Voskhod 11A57	-	76041 -200	Kosmos-751	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	315	-	-
1975-071	2442625.04	1975 Jul 31 1300	Voskhod 11A57	-	76041 -786	Kosmos-753	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	329	-	-
1975-073	2442637.81	1975 Aug 13 0721:04	Voskhod 11A57	-	78031 -782	Kosmos-754	Zenit-4MK	-	-	NIIP-5	LC31	-	-	352	-	-
1975-076	2442646.59	1975 Aug 22 0210:59	Vostok 8A92M	-	76031 -371	Kosmos-756	Tselina-D	-	-	NIIP-53	LC41/1	-	-	681	-	-
1975-078	2442652.11	1975 Aug 27 1445	Voskhod 11A57	-	76041 -787	Kosmos-757	Zenit-4MK	-	-	NIIP-53	LC41/1	-	-	332	-	-
1975-079	2442658.05	1975 Sep 2 1309	Molniya 8K78M	ML	78031 -571	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	41008	-	-
1975-080	2442661.12	1975 Sep 5 1449:59	Soyuz-U	-	A 15000-016	Kosmos-758	Yantar'-2K No. 3	-	-	NIIP-53	LC43/3	-	-	577	-	-
1975-081	2442664.51	1975 Sep 9 0019:06	Molniya 8K78M	ML	76029 -560	Molniya-2	Molniya-2	-	-	NIIP-53	LC41/1	-	-	40855	-	-
1975-084	2442667.73	1975 Sep 12 0530	Soyuz-U	-	77016 -662	Kosmos-759	Zenit-4MT	-	-	NIIP-53	LC43/3	-	-	275	-	-
1975-085	2442671.88	1975 Sep 16 0900:00	Voskhod 11A57	-	76041 -789	Kosmos-760	Zenit-4MK	-	-	NIIP-5	LC31	-	-	343	-	-
1975-087	2442673.51	1975 Sep 18 0012	Vostok 8A92M	-	76029 -354	Meteor	Meteor-M No. 28	-	-	NIIP-53	LC41/1	-	-	947	-	-
1975-088	2442678.92	1975 Sep 23 0959:59	Voskhod 11A57	-	77016 -214	Kosmos-769	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	306	-	-
1975-090	2442680.91	1975 Sep 25 0949:59	Soyuz-U	-	77016 -011	Kosmos-771	Fram	-	-	NIIP-53	LC43/3	-	-	242	-	-
1975-093	2442684.68	1975 Sep 29 0415:00	Soyuz-U	-	F 15000-021	Kosmos-772	Soyuz 7K-S No. 2L	-	-	NIIP-5	LC1	-	-	328	-	-
1975-095	2442686.85	1975 Oct 1 0830:00	Voskhod 11A57	-	76041 -790	Kosmos-774	Zenit-4MK	-	-	NIIP-5	LC31	-	-	908	-	-
1975-101	2442703.10	1975 Oct 17 1429:59	Voskhod 11A57	-	77041 -216	Kosmos-776	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	288	-	-
1975-104	2442721.14	1975 Nov 4 1519:58	Voskhod 11A57	-	76041 -791	Kosmos-779	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	340	-	-
1975-105	2442731.30	1975 Nov 14 1913:58	Molniya 8K78M	ML	77016 -588	Molniya-3	Molniya-3 No. 13	-	-	NIIP-53	LC43/3	-	-	40881	-	-
1975-106	2442734.11	1975 Nov 17 1436:37	Soyuz-U	-	K 15000- 15	Soyuz-20	Soyuz 7K-T(A9) No. 64	-	-	NIIP-5	LC1	-	-	350	-	-
1975-108	2442737.89	1975 Nov 21 0920:00	Voskhod 11A57	-	77016 -213	Kosmos-780	Zenit-2M	-	-	NIIP-5	LC31	-	-	286	-	-
1975-110	2442742.21	1975 Nov 25 1700	Soyuz-U	-	F 15000-022	Kosmos-782	Bion No. 3	-	-	NIIP-53	LC43/3	-	-	447	-	-
1975-113	2442749.92	1975 Dec 3 1000	Voskhod 11A57	-	76041 -201	Kosmos-784	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	272	-	-
1975-120	2442762.91	1975 Dec 16 0950:00	Voskhod 11A57	-	76041 -792	Kosmos-786	Zenit-4MK	-	-	NIIP-5	LC31	-	-	328	-	-
1975-121	2442763.96	1975 Dec 17 1106:01	Molniya 8K78M	ML	78031 -567	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/3	-	-	40760	-	-
1975-122	2442768.59	1975 Dec 22 0208:00	Molniya 8K78M	SOL	76041 -575	Prognoz-4	SO-M No. 504	-	-	NIIP-5	LC31	-	-	150000	-	-
1975-124	2442772.29	1975 Dec 25 1900:00	Vostok 8A92M	-	76041 -368	Meteor	Meteor No. 38	-	-	NIIP-53	LC41/1	-	-	913	-	-
1975-125	2442773.93	1975 Dec 27 1022:02	Molniya 8K78M	ML	F 15000-142	Molniya-3	Molniya-3 No. 15	-	-	NIIP-53	LC43/3	-	-	40762	-	-
1976-002	2442785.15	1976 Jan 7 1534:58	Voskhod 11A57	-	76041 -793	Kosmos-788	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	383	-	-
1976-006	2442799.98	1976 Jan 22 1138:00	Molniya 8K78M	ML	76029 -559	Molniya-1	Molniya-1 11F658 No. 40	-	-	NIIP-5	LC1	-	-	39994	-	-
1976-009	2442806.85	1976 Jan 29 0830:00	Voskhod 11A57	-	77016 -218	Kosmos-799	Zenit-2M	-	-	NIIP-5	LC31	-	-	318	-	-
1976-013	2442819.87	1976 Feb 11 0850:00	Voskhod 11A57	-	77016 -658	Kosmos-802	Zenit-4MK	-	-	NIIP-5	LC31	-	-	338	-	-
1976-018	2442829.08	1976 Feb 20 1401:02	Soyuz-U	-	K 15000-013	Kosmos-805	Yantar'-2K No. 4	-	-	NIIP-53	LC43/3	-	-	352	-	-
1976-020	2442847.83	1976 Mar 10 0800:00	Soyuz-U	-	78026 -666	Kosmos-806	Zenit-4MK	-	-	NIIP-5	LC31	-	-	354	-	-
1976-021	2442849.32	1976 Mar 11 1945	Molniya 8K78M	ML	78031 -575	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40704	-	-
1976-024	2442854.22	1976 Mar 16 1722	Vostok 8A92M	-	78026 -387	Kosmos-808	Tselina-D	-	-	NIIP-53	LC41/1	-	-	680	-	-
1976-025	2442855.89	1976 Mar 18 0915:00	Soyuz-U	-	78026 -222	Kosmos-809	Zenit-2M	-	-	NIIP-5	LC31	-	-	354	-	-
1976-026	2442857.31	1976 Mar 19 1931:00	Molniya 8K78M	ML	76029 -558	Molniya-1	Molniya-1 11F658 No. 42	-	-	NIIP-5	LC1	-	-	40092	-	-
1976-028	2442864.12	1976 Mar 26 1500	Voskhod 11A57	-	77016 -656	Kosmos-810	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	337	-	-
1976-030	2442869.03	1976 Mar 31 1250:03	Soyuz 11A511M	-	76029 -838	Kosmos-811	Orion	-	-	NIIP-53	LC41/1	-	-	335	-	-
1976-032	2442876.05	1976 Apr 7 1305:00	Vostok 8A92M	-	76041 -369	Meteor	Meteor No. 37	-	-	NIIP-53	LC41/1	-	-	944	-	-
1976-033	2442877.85	1976 Apr 9 0830	Voskhod 11A57	-	77016 -217	Kosmos-813	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	235	-	-
1976-036	2442896.90	1976 Apr 28 0930	Voskhod 11A57	-	76041 -784	Kosmos-815	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	314	-	-
1976-040	2442903.83	1976 May 5 0750:00	Voskhod 11A57	-	77016 -660	Kosmos-817	Zenit-4MK	-	-	NIIP-5	LC31	-	-	327	-	-
1976-041	2442911.25	1976 May 12 1757	Molniya 8K78M	ML	77016 -598	Molniya-3	Molniya-3 No. 16	-	-	NIIP-53	LC41/1	-	-	40855	-	-
1976-043	2442914.06	1976 May 15 1330	Vostok 8A92M	-	76042 -388	Meteor	Meteor-Priroda No. 2-1	-	-	NIIP-53	LC43/3	-	-	915	-	-
1976-045	2442918.88	1976 May 20 0900:00	Voskhod 11A57	-	77016 -219	Kosmos-819	Zenit-2M	-	-	NIIP-5	LC31	-	-	292	-	-
1976-046	2442919.79	1976 May 21 0700	Soyuz-U	-	76042 -022	Kosmos-820	Fram	-	-	NIIP-53	LC43/3	-	-	257	-	-
1976-048	2442924.88	1976 May 26 0900	Voskhod 11A57	-	77016 -659	Kosmos-821	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	339	-	-
1976-052	2442937.79	1976 Jun 8 0700:00	Voskhod 11A57	-	77016 -657	Kosmos-824	Zenit-4MK	-	-	NIIP-5	LC31	-	-	387	-	-
1976-055	2442946.05	1976 Jun 16 1309:58	Voskhod 11A57	-	77016 -654	Kosmos-833	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	343	-	-
1976-058	2442953.80	1976 Jun 24 0710:01	Soyuz-U	-	78026 -220	Kosmos-834	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	234	-	-
1976-060	2442958.81	1976 Jun 29 0720:00	Voskhod 11A57	-	77016 -661	Kosmos-835	Zenit-4MK	-	-	NIIP-5	LC31	-	-	382	-	-
1976-062	2442960.84	1976 Jul 1 0805:38	Molniya 8K78M	ML	77016 -594	Kosmos-837	Molniya-2	-	-	NIIP-53	LC43/4	-	-	962	-	-
1976-064	2442966.01	1976 Jul 6 1208:45	Soyuz 11A511	-	F 15000-034	Soyuz-21	Soyuz 7K-T No. 41	-	-	NIIP-5	LC1	-	-	273	-	-
1976-068	2442973.88	1976 Jul 14 0900	Soyuz-U	-	78026 -221	Kosmos-840	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	316	-	-
1976-072	2442982.15	1976 Jul 22 1540:01	Soyuz-U	-	78026 -958	Kosmos-844	Yantar'-2K No. 5	-	-	NIIP-53	LC43/3	-	-	421	-	-
1976-074	2442983.16	1976 Jul 23 1549:00	Molniya 8K78M	ML	76029 -556	Molniya-1	Molniya-1 11F658 No. 43	-	-	NIIP-5	LC1	-	-	40129	-	-
1976-079	2442995.07	1976 Aug 4 1340	Soyuz-U	-	78026 -668	Kosmos-847	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	318	-	-
1976-082	2443003.06	1976 Aug 12 1330	Soyuz-U	-	76042 -241	Kosmos-848	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	304	-	-
1976-085	2443018.11	1976 Aug 27 1434:58	Vostok 8A92M	-	78026 -385	Kosmos-851	Tselina-D	-	-	NIIP-53	LC43/4	-	-	664	-	-
1976-086	2443018.88	1976 Aug 28 0900:00	Soyuz-U	-	76042 -690	Kosmos-852	Zenit-4MK	-	-	NIIP-5	LC31	-	-	332	-	-
1976-088	2443022.64	1976 Sep 1 0323	Molniya 8K78M	ML	76041 -576	Kosmos-853	Molniya-2	-	-	NIIP-53	LC43/3	-	-	487	-	-
1976-090	2443024.89	1976 Sep 3 0920	Soyuz-U	-	78026 -665	Kosmos-854	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	305	-	-
1976-093	2443036.91	1976 Sep 15 0948:30	Soyuz-U	-	E 15000-069	Soyuz-22	Soyuz 7K-TM No. 74	-	-	NIIP-5	LC1	-	-	295	-	-
1976-095	2443042.99	1976 Sep 21 1140	Soyuz-U	-	78026 -862	Kosmos-855	Orion	-	-	NIIP-53	LC43/3	-	-	341	-	-
1976-096	2443043.90	1976 Sep 22 0930:00	Soyuz-U	-	76042 -240	Kosmos-856	Zenit-2M	-	-	NIIP-5	LC31	-	-	299	-	-
1976-097	2443046.12	1976 Sep 24 1500	Soyuz-U	-	78026 -669	Kosmos-857	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	398	-	-
1976-F02	2443055.96	1976 Oct 4 1100	Soyuz-U	-	E 15000-056	-	Fram	-	-	NIIP-53	LC43/4	-	-	40?	-	-
1976-099	2443061.90	1976 Oct 10 0935	Soyuz-U	-	78026 -664	Kosmos-859	Zenit-4MK	-	-	NIIP-5	LC31	-	-	337	-	-
1976-100	2443066.24	1976 Oct 14 1739:18	Soyuz 11A511	-	E 15000-035	Soyuz-23	Soyuz 7K-T(A9) No. 65	-	-	NIIP-5	LC1	-	-	270	-	-
1976-102	2443067.46	1976 Oct 15 2259:38	Vostok 8A92M	-	76041 -370	Meteor	Meteor No. 35	-	-	NIIP-53	LC43/3	-	-	924	-	-
1976-105	2443073.88	1976 Oct 22 0911:59	Molniya 8K78M	2BL	78026 -600	Kosmos-862	Oko	-	-	NIIP-53	LC43/4	-	-	39914	-	-
1976-106	2443077.10	1976 Oct 25 1430	Soyuz-U	-	78026 -686	Kosmos-863	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	465	-	-
1976-109	2443083.97	1976 Nov 1 1120	Soyuz-U	-	78026 -223	Kosmos-865	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	473	-	-
1976-110	2443093.95	1976 Nov 11 1045	Soyuz-U	-	78026 -673	Kosmos-866	Zenit-4MK	-	-	NIIP-5	LC31	-	-	331	-	-
1976-111	2443106.19	1976 Nov 23 1627	Soyuz-U	-	E 15000-052	Kosmos-867	Zenit-6	-	-	NIIP-53	LC43/4	-	-	505	-	-
1976-112	2443107.67	1976 Nov 25 0359:00	Molniya 8K78M	SOL	E 15000-153	Prognoz-5	SO-M No. 505	-	-	NIIP-5	LC31	-	-	150000	-	-
1976-114	2443112.17	1976 Nov 29 1600:00	Soyuz-U	-	E 15000-071	Kosmos-869	Soyuz 7K-S No. 3L	-	-	NIIP-5	LC1	-	-	391	-	-
1976-116	2443114.61	1976 Dec 2 0244:57	Molniya 8K78M	ML	78026 -597	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/4	-	-	40775	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-119	2443121.92	1976 Dec 9 1000	Soyuz-U	-	76042 -238	Kosmos-879	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	235	-	-
1976-123	2443129.90	1976 Dec 17 0930:00	Soyuz-U	-	78026 -674	Kosmos-884	Zenit-4MK	-	-	NIIP-5	LC31	-	-	361	-	-
1976-127	2443140.78	1976 Dec 28 0638	Molniya 8K78M	ML	76042 -602	Molniya-3	Molniya-3 No. 17	-	-	NIIP-53	LC43/4	-	-	40840	-	-
1977-001	2443149.90	1977 Jan 6 0940:00	Soyuz-U	-	78026 -675	Kosmos-888	Zenit-4MK	-	-	NIIP-5	LC31	-	-	368	-	-
1977-002	2443150.47	1977 Jan 6 2317	Vostok 8A92M	-	76042 -390	Meteor-2	Meteor-2 No. 2	-	-	NIIP-53	LC43/3	-	-	940	-	-
1977-003	2443163.85	1977 Jan 20 0830:00	Soyuz-U	-	78026 -224	Kosmos-889	Zenit-2M	-	-	NIIP-5	LC31	-	-	328	-	-
1977-008	2443182.17	1977 Feb 7 1611:50	Soyuz-U	-	E 15000-092	Soyuz-24	Soyuz 7K-T(A9) No. 66	-	-	NIIP-5	LC1	-	-	377	-	-
1977-009	2443183.98	1977 Feb 9 1130	Soyuz-U	-	78026 -667	Kosmos-892	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	427	-	-
1977-010	2443186.12	1977 Feb 11 1457	Molniya 8K78M	ML	76041 -577	Molniya-2	Molniya-2	-	-	NIIP-53	LC43/4	-	-	40756	-	-
1977-F01	2443196.89	1977 Feb 22 0919	Soyuz-U	-	78026 -672	-	Zenit-4MK	-	-	NIIP-5	LC31	-	-	10?	-	-
1977-015	2443201.39	1977 Feb 26 2118	Vostok 8A92M	-	77052 -391	Kosmos-895	Tselina-D	-	-	NIIP-53	LC43/4	-	-	690	-	-
1977-016	2443205.94	1977 Mar 3 1030	Soyuz-U	-	77052 -023	Kosmos-896	Zenit-6	-	-	NIIP-53	LC43/4	-	-	518	-	-
1977-017	2443212.96	1977 Mar 10 1100	Soyuz-U	-	78026 -670	Kosmos-897	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	415	-	-
1977-020	2443219.85	1977 Mar 17 0830	Soyuz-U	-	76042 -235	Kosmos-898	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	228	-	-
1977-021	2443226.99	1977 Mar 24 1151	Molniya 8K78M	ML	78026 -599	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/4	-	-	40819	-	-
1977-024	2443238.59	1977 Apr 5 0205:00	Vostok 8A92M	-	78033 -348	Meteor	Meteor-M No. 39	-	-	NIIP-53	LC43/3	-	-	923	-	-
1977-026	2443240.87	1977 Apr 7 0859	Soyuz-U	-	78026 -671	Kosmos-902	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	283	-	-
1977-027	2443244.57	1977 Apr 11 0138	Molniya 8K78M	2BL	E 15000-160	Kosmos-903	Oko	-	-	NIIP-53	LC43/3	-	-	40053	-	-
1977-028	2443253.88	1977 Apr 20 0900	Soyuz-U	-	76042 -236	Kosmos-904	Zenit-2M	-	-	NIIP-5	LC31	-	-	326	-	-
1977-030	2443260.11	1977 Apr 26 1445	Soyuz-U	-	E 15000-031	Kosmos-905	Yantar'-2K No. 6	-	-	NIIP-53	LC43/3	-	-	415	-	-
1977-032	2443261.88	1977 Apr 28 0910	Molniya 8K78M	ML	76026 -604	Molniya-3	Molniya-3 No. 19	-	-	NIIP-53	LC43/4	-	-	40843	-	-
1977-033	2443269.08	1977 May 5 1400	Soyuz-U	-	76042 -687	Kosmos-907	Zenit-4MK	-	-	NIIP-53	LC43/3	-	-	384	-	-
1977-035	2443280.92	1977 May 17 1010:00	Soyuz-U	-	76042 -688	Kosmos-908	Zenit-4MK	-	-	NIIP-5	LC31	-	-	289	-	-
1977-040	2443289.79	1977 May 26 0700	Soyuz-U	-	78018 -034	Kosmos-912	Fram	-	-	NIIP-53	LC43/4	-	-	230	-	-
1977-043	2443294.81	1977 May 31 0730:00	Soyuz-U	-	76042 -237	Kosmos-914	Zenit-2M	-	-	NIIP-5	LC31	-	-	341	-	-
1977-045	2443303.08	1977 Jun 8 1400	Soyuz-U	-	76042 -689	Kosmos-915	Zenit-4MK	-	-	NIIP-53	LC43/4	-	-	359	-	-
1977-046	2443304.83	1977 Jun 10 0800	Soyuz-U	-	78026 -863	Kosmos-916	Orion	-	-	NIIP-53	LC43/3	-	-	356	-	-
1977-047	2443310.58	1977 Jun 16 0158	Molniya 8K78M	2BL	D 15000-162	Kosmos-917	Oko	-	-	NIIP-53	LC43/4	-	-	40174	-	-
1977-052	2443316.83	1977 Jun 22 0800:00	Soyuz-U	-	76042 -691	Kosmos-920	Zenit-4MK	-	-	NIIP-5	LC31	-	-	342	-	-
1977-054	2443318.74	1977 Jun 24 0541	Molniya 8K78M	ML	76041 -580	Molniya-1	Molniya-1 11F658 No. 45	-	-	NIIP-5	LC1	-	-	40062	-	-
1977-057	2443324.27	1977 Jun 29 1834	Vostok 8A92M	-	77016 -382	Meteor-Priroda	Meteor-Priroda No. 2-2	-	-	NIIP-5	LC31	-	-	670	-	-
1977-058	2443325.08	1977 Jun 30 1400	Soyuz-U	-	76042 -239	Kosmos-922	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	301	-	-
1977-061	2443331.81	1977 Jul 7 0725	Vostok 8A92M	-	76041 -367	Kosmos-925	Tselina-D	-	-	NIIP-53	LC43/4	-	-	677	-	-
1977-063	2443336.88	1977 Jul 12 0900	Soyuz-U	-	76042 -692	Kosmos-927	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	384	-	-
1977-068	2443344.70	1977 Jul 20 0444	Molniya 8K78M	2BL	77052 -609	Kosmos-931	Oko	-	-	NIIP-53	LC43/4	-	-	40065	-	-
1977-069	2443344.82	1977 Jul 20 0735	Soyuz-U	-	76042 -693	Kosmos-932	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	356	-	-
1977-072	2443352.25	1977 Jul 27 1807	Soyuz-U	-	E 15000-082	Kosmos-934	Zenit-6	-	-	NIIP-53	LC43/4	-	-	343	-	-
1977-073	2443353.83	1977 Jul 29 0800	Soyuz-U	-	77052 -244	Kosmos-935	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	250	-	-
1977-074	2443359.08	1977 Aug 3 1401	Soyuz-U	-	D 15000-113	Kosmos-936	Bion No. 4	-	-	NIIP-53	LC43/3	-	-	397	-	-
1977-F03	2443365.94	1977 Aug 10 1040	Soyuz-U	-	76042 -694	-	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	10?	-	-
1977-078	2443380.10	1977 Aug 24 1429:59	Soyuz-U	-	77052 -695	Kosmos-938	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	376	-	-
1977-081	2443382.92	1977 Aug 27 1009	Soyuz-U	-	78018 -110	Kosmos-947	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	324	-	-
1977-082	2443386.25	1977 Aug 30 1806	Molniya 8K78M	ML	77016 -593	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40855	-	-
1977-083	2443388.88	1977 Sep 2 0900	Soyuz-U	-	76038 -035	Kosmos-948	Fram	-	-	NIIP-53	LC43/4	-	-	252	-	-
1977-085	2443393.23	1977 Sep 6 1730	Soyuz-U	-	77052 -961	Kosmos-949	Yantar'-2K No. 7	-	-	NIIP-53	LC43/3	-	-	391	-	-
1977-086	2443400.13	1977 Sep 13 1510	Soyuz-U	-	76038 -111	Kosmos-950	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	284	-	-
1977-089	2443403.10	1977 Sep 16 1430	Soyuz-U	-	77052 -696	Kosmos-953	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	351	-	-
1977-091	2443406.54	1977 Sep 20 0100:59	Vostok 8A92M	-	78026 -393	Kosmos-955	Tselina-D	-	-	NIIP-53	LC43/4	-	-	688	-	-
1977-093	2443408.54	1977 Sep 22 0051:00	Molniya 8K78M	SOL	D 15000-163	Prognoz-6	SO-M No. 506	-	-	NIIP-5	LC31	-	-	150000	-	-
1977-098	2443416.91	1977 Sep 30 0946:00	Soyuz-U	-	77052 -697	Kosmos-957	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	361	-	-
1977-099	2443425.61	1977 Oct 9 0240:35	Soyuz-U	-	D 15000-103	Soyuz-25	Soyuz 7K-T No. 42	-	-	NIIP-5	LC1	-	-	352	-	-
1977-100	2443428.13	1977 Oct 11 1514	Soyuz-U	-	D 15000-099	Kosmos-958	Zenit-6	-	-	NIIP-53	LC43/4	-	-	447	-	-
1977-105	2443444.57	1977 Oct 28 0137	Molniya 8K78M	ML	77052 -606	Molniya-3	Molniya-3 No. 18	-	-	NIIP-53	LC43/3	-	-	40840	-	-
1977-110	2443482.00	1977 Dec 4 1200	Soyuz-U	-	77052 -698	Kosmos-964	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	365	-	-
1977-113	2443487.55	1977 Dec 10 0118:40	Soyuz-U	-	D 15000-093	Soyuz-26	Soyuz 7K-T No. 43	-	-	NIIP-5	LC1	-	-	354	-	-
1977-115	2443489.90	1977 Dec 12 0940:00	Soyuz-U	-	78018 -105	Kosmos-966	Zenit-2M	-	-	NIIP-5	LC31	-	-	295	-	-
1977-117	2443491.90	1977 Dec 14 0930:00	Vostok 8A92M	-	78018 -305	Meteor-2	Meteor-2 No. 3	-	-	NIIP-53	LC43/4	-	-	910	-	-
1977-120	2443498.16	1977 Dec 20 1550	Soyuz-U	-	77052 -699	Kosmos-969	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	363	-	-
1977-124	2443504.89	1977 Dec 27 0920	Soyuz-U	-	77052 -243	Kosmos-973	Zenit-2M	-	-	NIIP-5	LC31?	-	-	329	-	-
1978-001	2443515.16	1978 Jan 6 1550	Soyuz-U	-	77052 -702	Kosmos-974	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	347	-	-
1978-003	2443519.02	1978 Jan 10 1226:00	Soyuz-U	-	D 15000-106	Soyuz-27	Soyuz 7K-T No. 44	-	-	NIIP-5	LC1	-	-	348	-	-
1978-004	2443519.06	1978 Jan 10 1323	Vostok 8A92M	-	78026 -394	Kosmos-975	Tselina-D	-	-	NIIP-53	LC43/4	-	-	693	-	-
1978-006	2443522.14	1978 Jan 13 1515	Soyuz-U	-	78018 -106	Kosmos-984	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	292	-	-
1978-008	2443528.85	1978 Jan 20 0824:40	Soyuz-U	-	E 15000-075	Progress-1	Progress 7K-TG No. 102	-	-	NIIP-5	LC31	-	-	345	-	-
1978-009	2443532.79	1978 Jan 24 0651	Molniya 8K78M	ML	78026 -596	Molniya-3	Molniya-3 No. 20	-	-	NIIP-53	LC43/3	-	-	40616	-	-
1978-010	2443532.91	1978 Jan 24 0950:00	Soyuz-U	-	77052 -700	Kosmos-986	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	343	-	-
1978-013	2443540.12	1978 Jan 31 1450	Soyuz-U	-	77052 -703	Kosmos-987	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	350	-	-
1978-015	2443548.01	1978 Feb 8 1215	Soyuz-U	-	77052 -875	Kosmos-988	Orion	-	-	NIIP-53	LC43/3	-	-	444	-	-
1978-017	2443553.90	1978 Feb 14 0930:00	Soyuz-U	-	77052 -701	Kosmos-989	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	332	-	-
1978-023	2443570.14	1978 Mar 2 1528:10	Soyuz-U	-	D 15000-132	Soyuz-28	Soyuz 7K-T No. 45	-	-	NIIP-5	LC1	-	-	352	-	-
1978-024	2443570.42	1978 Mar 2 2207	Molniya 8K78M	ML	76041 -581	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40768	-	-
1978-025	2443571.82	1978 Mar 4 0740:00	Soyuz-U	-	76042 -242	Kosmos-992	Zenit-2M	-	-	NIIP-5	LC31	-	-	322	-	-
1978-027	2443577.95	1978 Mar 10 1042	Soyuz-U	-	77052 -704	Kosmos-993	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	392	-	-
1978-030	2443584.95	1978 Mar 17 1050	Soyuz-U	-	78018 -107	Kosmos-995	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	235	-	-
1978-033	2443597.83	1978 Mar 30 0750:00	Soyuz-U	-	78018 -705	Kosmos-999	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	360	-	-
1978-036	2443603.12	1978 Apr 4 1500:00	Soyuz-U	-	D 15000-123	Kosmos-1001	Soyuz 7K-ST No. 4L	-	-	NIIP-5	LC1	-	-	322	-	-
1978-037	2443604.88	1978 Apr 6 0910	Soyuz-U	-	78018 -109	Kosmos-1002	Zenit-2M	-	-	NIIP-5	LC31	-	-	283	-	-
1978-040	2443619.15	1978 Apr 20 1530	Soyuz-U	-	78018 -706	Kosmos-1003	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	327	-	-
1978-043	2443634.15	1978 May 5 1530	Soyuz-U	-	78018 -108	Kosmos-1004	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	431	-	-
1978-045	2443640.67	1978 May 12 0407	Vostok 8A92M	-	76038 -309	Kosmos-1005	Tselina-D	-	-	NIIP-53	LC43/4	-	-	689	-	-
1978-048	2443644.94	1978 May 16 1040	Soyuz-U	-	78018 -707	Kosmos-1007	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	374	-	-
1978-052	2443651.81	1978 May 23 0730	Soyuz-U	-	77025 -046	Kosmos-1010	Fram	-	-	NIIP-53	LC43/4	-	-	229	-	-
1978-054	2443654.10	1978 May 25 1430	Soyuz-U	-	76038 -112	Kosmos-1012	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	287	-	-
1978-055	2443662.01	1978 Jun 2 1212	Molniya 8K78M	ML	78026 -595	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40842	-	-
1978-057	2443669.86	1978 Jun 10 0835:00	Soyuz-U	-	78018 -711	Kosmos-1021	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	325	-	-
1978-059	2443671.94	1978 Jun 12 1030	Soyuz-U	-	78018 -708	Kosmos-1022	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	349	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-061	2443675.34	1978 Jun 15 2016:45	Soyuz-U	-	D 15000-133	Soyuz-29	Soyuz 7K-T No. 46	-	-	NIIP-5	LC1	-	-	354	-	-
1978-065	2443687.14	1978 Jun 27 1527:21	Soyuz-U	-	Ye15000-147	Soyuz-30	Soyuz 7K-T(A9) No. 67	-	-	NIIP-5	LC1	-	-	339	-	-
1978-066	2443687.62	1978 Jun 28 0258	Molniya 8K78M	2BL	77052 -608	Kosmos-1024	Oko	-	-	NIIP-53	LC43/3	-	-	40093	-	-
1978-069	2443691.90	1978 Jul 2 0930:00	Soyuz-U	-	76038 -113	Kosmos-1026	Energiya No. 2	-	-	NIIP-5	LC31	-	-	246	-	-
1978-070	2443696.98	1978 Jul 7 1126:16	Soyuz-U	-	S 15000-128	Progress-2	Progress 7K-TG No. 101	-	-	NIIP-5	LC31	-	-	332	-	-
1978-072	2443704.12	1978 Jul 14 1500	Molniya 8K78M	ML	76038 -508	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/4	-	-	40664	-	-
1978-076	2443726.12	1978 Aug 5 1500	Soyuz-U	-	77025 -295	Kosmos-1028	Feniks No. 14	-	-	NIIP-53	LC43/3	-	-	390	-	-
1978-077	2443728.44	1978 Aug 7 2231:22	Soyuz-U	-	Ye15000-138	Progress-3	Progress 7K-TG No. 103	-	-	NIIP-5	LC31	-	-	354	-	-
1978-080	2443743.49	1978 Aug 22 2347	Molniya 8K78M	ML	78018 -501	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/4	-	-	40647	-	-
1978-081	2443747.12	1978 Aug 26 1451:30	Soyuz-U	-	Ye15000-159	Soyuz-31	Soyuz 7K-T No. 47	-	-	NIIP-5	LC1	-	-	361	-	-
1978-082	2443750.12	1978 Aug 29 1500	Soyuz-U	-	78018 -709	Kosmos-1029	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	357	-	-
1978-083	2443757.63	1978 Sep 6 0304	Molniya 8K78M	2BL	76038 -507	Kosmos-1030	Oko	-	-	NIIP-53	LC43/4	-	-	40310	-	-
1978-085	2443761.12	1978 Sep 9 1500	Soyuz-U	-	76038 -716 ?	Kosmos-1031	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	342	-	-
1978-088	2443770.84	1978 Sep 19 0805	Soyuz-U	-	77025 -124	Kosmos-1032	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	223	-	-
1978-089	2443784.96	1978 Oct 3 1100	Soyuz-U	-	77025 -047	Kosmos-1033	Fram	-	-	NIIP-53	LC43/3	-	-	238	-	-
1978-090	2443785.46	1978 Oct 3 2309:30	Soyuz-U	-	Ye15000-152	Progress-4	Progress 7K-TG No. 105	-	-	NIIP-5	LC1	-	-	361	-	-
1978-092	2443788.15	1978 Oct 6 1530	Soyuz-U	-	76038 -715	Kosmos-1042	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	329	-	-
1978-094	2443792.32	1978 Oct 10 1944	Vostok 8A92M	-	76038 -310	Kosmos-1043	Tselina-D	-	-	NIIP-53	LC43/4	-	-	683	-	-
1978-095	2443794.72	1978 Oct 13 0519	Molniya 8K78M	ML	76038 -511	Molniya-3	Molniya-3 No. 22	-	-	NIIP-53	LC43/3	-	-	40911	-	-
1978-097	2443799.12	1978 Oct 17 1500	Soyuz-U	-	77025 -125	Kosmos-1044	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	308	-	-
1978-101	2443811.72	1978 Oct 30 0523:00	Molniya 8K78M	SOL	D 15000-173/801	Prognoz-7	SO-M No. 507	-	-	NIIP-5	LC1	-	-	150000	-	-
1978-102	2443814.00	1978 Nov 1 1200	Soyuz-U	-	78026 -864	Kosmos-1046	Orion	-	-	NIIP-53	LC41/1	-	-	481	-	-
1978-104	2443827.99	1978 Nov 15 1145	Soyuz-U	-	78038 -714	Kosmos-1047	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	354	-	-
1978-107	2443834.00	1978 Nov 21 1200	Soyuz-U	-	77025 -729	Kosmos-1049	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	348	-	-
1978-108	2443841.18	1978 Nov 28 1620	Soyuz-U	-	D 15000-086	Kosmos-1050	Zenit-6	-	-	NIIP-53	LC43/4	-	-	331	-	-
1978-110	2443850.15	1978 Dec 7 1530	Soyuz-U	-	78038 -717	Kosmos-1059	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	369	-	-
1978-111	2443850.90	1978 Dec 8 0930:00	Soyuz-U	-	E 15000-144	Kosmos-1060	Zenit-2M	-	-	NIIP-5	LC31	-	-	290	-	-
1978-114	2443857.14	1978 Dec 14 1520	Soyuz-U	-	78055 -129	Kosmos-1061	Zenit-2M	-	-	NIIP-53	LC43/4	-	-	309	-	-
1978-117	2443861.57	1978 Dec 19 0135	Vostok 8A92M	-	76038 -311	Kosmos-1063	Tselina-D	-	-	NIIP-53	LC43/4	-	-	687	-	-
1978-121	2443865.86	1978 Dec 23 0839	Vostok 8A92M	-	78026 -384	Kosmos-1066	Astrofizika 11F653 No. 1	-	-	NIIP-53	LC43/3	-	-	919	-	-
1978-123	2443869.15	1978 Dec 26 1530	Soyuz-U	-	76038 -718	Kosmos-1068	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	388	-	-
1978-124	2443871.19	1978 Dec 28 1630	Soyuz-U	-	77052 -876	Kosmos-1069	Orion	-	-	NIIP-53	LC41/1	-	-	352	-	-
1979-001	2443885.12	1979 Jan 11 1500	Soyuz-U	-	78055 -130	Kosmos-1070	Zenit-2M	-	-	NIIP-53	LC43/3	-	-	296	-	-
1979-002	2443887.15	1979 Jan 13 1530	Soyuz-U	-	77025 -730	Kosmos-1071	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	425	-	-
1979-004	2443892.15	1979 Jan 18 1542	Molniya 8K78M	ML	78018 -504	Molniya-3	Molniya-3 No. 23	-	-	NIIP-53	LC43/4	-	-	40829	-	-
1979-005	2443898.74	1979 Jan 25 0543	Vostok 8A92M	-	78026 -386	Meteor-Priroda	Meteor-Priroda No. 2-3	-	-	NIIP-5	LC31	-	-	674	-	-
1979-006	2443904.14	1979 Jan 30 1515	Soyuz-U	-	77025 -731	Kosmos-1073	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	385	-	-
1979-008	2443904.88	1979 Jan 31 0900:00	Soyuz-U	-	Ye15000-142	Kosmos-1074	Soyuz 7K-ST No. 5L	-	-	NIIP-5	LC31	-	-	382	-	-
1979-012	2443918.40	1979 Feb 13 2141	Vostok 8A92M	-	76038 -312	Kosmos-1077	Tselina-D	-	-	NIIP-53	LC43/4	-	-	685	-	-
1979-F01	2443921.12	1979 Feb 16 1500	Soyuz-U	-	77025 -131	-	Zenit-2M No. 131	-	-	NIIP-53	LC41/1	-	-	200?	-	-
1979-016	2443927.01	1979 Feb 22 1210	Soyuz-U	-	77025 -732	Kosmos-1078	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	279	-	-
1979-018	2443930.00	1979 Feb 25 1153:49	Soyuz-U	-	Ye15000-155	Soyuz-32	Soyuz 7K-T No. 48	-	-	NIIP-5	LC31	-	-	364	-	-
1979-019	2443932.12	1979 Feb 27 1500	Soyuz-U	-	77025 -926	Kosmos-1079	Feniks No. 15	-	-	NIIP-53	LC43/3	-	-	337	-	-
1979-021	2443934.28	1979 Mar 1 1845:00	Vostok 8A92M	-	78018 -307	Meteor-2	Meteor-2 No. 4	-	-	NIIP-53	LC43/4	-	-	925	-	-
1979-022	2443944.74	1979 Mar 12 0547:28	Soyuz-U	-	Ye15000-162	Progress-5	Progress 7K-TG No. 104	-	-	NIIP-5	LC31	-	-	350	-	-
1979-023	2443946.95	1979 Mar 14 1050	Soyuz-U	-	78055 -737	Kosmos-1080	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	355	-	-
1979-027	2443963.95	1979 Mar 31 1045	Soyuz-U	-	77025 -127	Kosmos-1090	Zenit-2M	-	-	NIIP-53	LC41/1	-	-	328	-	-
1979-029	2443974.23	1979 Apr 10 1734:34	Soyuz-U	-	Zh15000-182	Soyuz-33	Soyuz 7K-T No. 49	-	-	NIIP-5	LC31	-	-	354	-	-
1979-031	2443975.52	1979 Apr 12 0028:00	Molniya 8K78M	ML	76042 -605	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40768	-	-
1979-032	2443977.73	1979 Apr 14 0527	Vostok 8A92M	-	78055 -326	Kosmos-1093	Tselina-D	-	-	NIIP-53	LC43/3	-	-	694	-	-
1979-034	2443983.98	1979 Apr 20 1130	Soyuz-U	-	76038 -407	Kosmos-1095	Zenit-6	-	-	NIIP-53	LC43/3	-	-	419	-	-
1979-037	2443991.22	1979 Apr 27 1715	Soyuz-U	-	E 15000-048	Kosmos-1097	Yantar'-4K1 No. 1	-	-	NIIP-53	LC43/3	-	-	388	-	-
1979-039	2444006.68	1979 May 13 0417:10	Soyuz-U	-	Zh15000-175	Progress-6	Progress 7K-TG No. 106	-	-	NIIP-5	LC31	-	-	363	-	-
1979-040	2444008.99	1979 May 15 1140	Soyuz-U	-	78055 -736	Kosmos-1098	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	356	-	-
1979-041	2444010.80	1979 May 17 0710	Soyuz-U	-	78055 -048	Kosmos-1099	Fram	-	-	NIIP-53	LC43/4	-	-	247	-	-
1979-043	2444018.79	1979 May 25 0700	Soyuz-U	-	76047 -152	Kosmos-1102	Gektor-Priroda	-	-	NIIP-53	LC41/1	-	-	259	-	-
1979-045	2444025.19	1979 May 31 1630	Soyuz-U	-	78055 -420	Kosmos-1103	Zenit-6	-	-	NIIP-53	LC43/3	-	-	416	-	-
1979-048	2444030.48	1979 Jun 5 2328	Molniya 8K78M	ML	76038 -509	Molniya-3	Molniya-3 No. 21	-	-	NIIP-53	LC43/4	-	-	40772	-	-
1979-049	2444031.26	1979 Jun 6 1812:41	Soyuz-U	-	Zh15000-178	Soyuz-34	Soyuz 7K-T No. 50	-	-	NIIP-5	LC31	-	-	405	-	-
1979-052	2444032.80	1979 Jun 8 0710	Soyuz-U	-	76047 -060	Kosmos-1105	Fram	-	-	NIIP-53	LC41/1	-	-	257	-	-
1979-054	2444036.79	1979 Jun 12 0700	Soyuz-U	-	77025 -128	Kosmos-1106	Gektor-Priroda	-	-	NIIP-53	LC43/4	-	-	240	-	-
1979-055	2444039.95	1979 Jun 15 1050	Soyuz-U	-	D 15000-083	Kosmos-1107	Zenit-6	-	-	NIIP-53	LC43/3	-	-	383	-	-
1979-056	2444046.79	1979 Jun 22 0700	Soyuz-U	-	78055 -049	Kosmos-1108	Fram	-	-	NIIP-53	LC43/4	-	-	244	-	-
1979-058	2444052.26	1979 Jun 27 1811:23	Molniya 8K78M	2BL	76038 -512	Kosmos-1109	Oko	-	-	NIIP-53	LC41/1	-	-	40267	-	-
1979-059	2444052.89	1979 Jun 28 0925:11	Soyuz-U	-	Zh15000-192	Progress-7	Progress 7K-TG No. 107	-	-	NIIP-5	LC31	-	-	404	-	-
1979-061	2444054.17	1979 Jun 29 1600	Soyuz-U	-	78055 -421	Kosmos-1111	Zenit-6	-	-	NIIP-53	LC43/3	-	-	485	-	-
1979-064	2444064.88	1979 Jul 10 0900:00	Soyuz-U	-	76038- 712	Kosmos-1113	Zenit-4MKM	-	-	NIIP-5	LC31	-	-	344	-	-
1979-066	2444067.85	1979 Jul 13 0825	Soyuz-U	-	76047 -062	Kosmos-1115	Fram	-	-	NIIP-53	LC43/4	-	-	233	-	-
1979-067	2444075.00	1979 Jul 20 1158	Vostok 8A92M	-	77025 -324	Kosmos-1116	Tselina-D	-	-	NIIP-53	LC43/4	-	-	672	-	-
1979-068	2444080.14	1979 Jul 25 1520	Soyuz-U	-	77025 -733	Kosmos-1117	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	328	-	-
1979-069	2444081.81	1979 Jul 27 0730	Soyuz-U	-	76047 -153	Kosmos-1118	Gektor-Priroda	-	-	NIIP-53	LC43/4	-	-	244	-	-
1979-070	2444085.66	1979 Jul 31 0356	Molniya 8K78M	ML	78055 -534	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40810	-	-
1979-071	2444088.95	1979 Aug 3 1045	Soyuz-U	-	76038 -818	Kosmos-1119	Orion	-	-	NIIP-53	LC43/3	-	-	238	-	-
1979-073	2444096.89	1979 Aug 11 0915:00	Soyuz-U	-	76047 -759	Kosmos-1120	Zenit-4MKM	-	-	NIIP-5	LC31?	-	-	366	-	-
1979-074	2444100.15	1979 Aug 14 1530	Soyuz-U	-	78055 -929	Kosmos-1121	Feniks No. 929	-	-	NIIP-53	LC43/3	-	-	350	-	-
1979-075	2444102.82	1979 Aug 17 0745	Soyuz-U	-	77025 -126	Kosmos-1122	Gektor-Priroda	-	-	NIIP-53	LC43/4	-	-	235	-	-
1979-076	2444106.97	1979 Aug 21 1110	Soyuz-U	-	76047 -061	Kosmos-1123	Fram	-	-	NIIP-53	LC41/1	-	-	239	-	-
1979-077	2444113.51	1979 Aug 28 0017:04	Molniya 8K78M	2BL	78055 -531	Kosmos-1124	Oko	-	-	NIIP-53	LC43/4	-	-	40262	-	-
1979-079	2444116.98	1979 Aug 31 1130	Soyuz-U	-	76047 -444	Kosmos-1126	Zenit-6	-	-	NIIP-53	LC43/4	-	-	594	-	-
1979-080	2444121.93	1979 Sep 5 1020	Soyuz-U	-	Zh15000-201	Kosmos-1127	Resurs-F1 17F41 No. 11	-	-	NIIP-53	LC41/1	-	-	274	-	-
1979-081	2444131.15	1979 Sep 14 1530	Soyuz-U	-	78055 -738	Kosmos-1128	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	365	-	-
1979-083	2444142.15	1979 Sep 25 1530	Soyuz-U	-	Zh15000-193	Kosmos-1129	Bion No. 5	-	-	NIIP-53	LC41/1	-	-	412	-	-
1979-085	2444145.01	1979 Sep 28 1220	Soyuz-U	-	77025 -418	Kosmos-1138	Zenit-6	-	-	NIIP-53	LC43/3	-	-	456	-	-
1979-088	2444151.98	1979 Oct 5 1130	Soyuz-U	-	78055 -817	Kosmos-1139	Orion	-	-	NIIP-53	LC41/1	-	-	335	-	-
1979-U01	2444159.02	1979 Oct 12 1230	Soyuz-U	-	77025 -419	-	Zenit-6	-	-	NIIP-53	LC43/3	-	-	200?	-	-
1979-091	2444166.79	1979 Oct 20 0703	Molniya 8K78M	ML	78055 -528	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40783	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-092	2444169.02	1979 Oct 22 1230	Soyuz-U	-	76047 -445	Kosmos-1142	Zenit-6	-	-	NIIP-53	LC43/3	-	-	417	-	-
1979-093	2444173.26	1979 Oct 26 1812	Vostok 8A92M	-	78018 -306 ?	Kosmos-1143	Tselina-D	-	-	NIIP-53	LC43/4	-	-	681	-	-
1979-095	2444177.89	1979 Oct 31 0925:00	Vostok 8A92M	-	78055 -328	Meteor-2	Meteor-2 No. 7	-	-	NIIP-53	LC43/4	-	-	924	-	-
1979-097	2444180.17	1979 Nov 2 1600	Soyuz-U	-	76047 -939	Kosmos-1144	Feniks No. 939	-	-	NIIP-53	LC43/3	-	-	435	-	-
1979-099	2444204.91	1979 Nov 27 0955	Vostok 8A92M	-	78055 -327	Kosmos-1145	Tselina-D	-	-	NIIP-53	LC43/4	-	-	682	-	-
1979-102	2444220.02	1979 Dec 12 1230	Soyuz-U	-	76047 -442	Kosmos-1147	Zenit-6	-	-	NIIP-53	LC43/3	-	-	418	-	-
1979-103	2444224.02	1979 Dec 16 1229:50	Soyuz-U	-	78018 -912	Soyuz T	Soyuz 7K-ST No. 6L	-	-	NIIP-5	LC31	-	-	399	-	-
1979-106	2444236.04	1979 Dec 28 1300	Soyuz-U	-	76047 -760	Kosmos-1148	Zenit-4MKM	-	-	NIIP-53	LC43/3	-	-	405	-	-
1980-001	2444248.01	1980 Jan 9 1215	Soyuz-U	-	76047 -443	Kosmos-1149	Zenit-6	-	-	NIIP-53	LC43/3	-	-	432	-	-
1980-002	2444250.02	1980 Jan 11 1228	Molniya 8K78M	ML	78018 -505	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40844	-	-
1980-006	2444263.16	1980 Jan 24 1545	Soyuz-U	-	76038 -914	Kosmos-1152	Feniks No. 928	-	-	NIIP-53	LC43/3	-	-	374	-	-
1980-008	2444269.04	1980 Jan 30 1251	Vostok 8A92M	-	78055 -329	Kosmos-1154	Tselina-D	-	-	NIIP-53	LC43/4	-	-	689	-	-
1980-009	2444276.96	1980 Feb 7 1100	Soyuz-U	-	78017 -452	Kosmos-1155	Zenit-6	-	-	NIIP-53	LC43/4	-	-	414	-	-
1980-013	2444281.54	1980 Feb 12 0052:37	Molniya 8K78M	2BL	78055 -532	Kosmos-1164	Oko	-	-	NIIP-53	LC43/4	-	-	614	-	-
1980-017	2444291.00	1980 Feb 21 1200	Soyuz-U	-	76038 -713	Kosmos-1165	Zenit-4MKM	-	-	NIIP-53	LC43/4	-	-	352	-	-
1980-020	2444302.94	1980 Mar 4 1030	Soyuz-U	-	78017 -447	Kosmos-1166	Zenit-6	-	-	NIIP-53	LC43/4	-	-	415	-	-
1980-E01	2444317.17	1980 Mar 18 1601	Vostok 8A92M	-	78055 -330	-	-	-	-	NIIP-53	LC43/4	-	-	0	-	-
1980-024	2444326.29	1980 Mar 27 1853:31	Soyuz-U	-	Zh15000-200	Progress-8	Progress 7K-TG No. 108	-	-	NIIP-5	LC31	-	-	354	-	-
1980-025	2444330.83	1980 Apr 1 0800	Soyuz-U	-	77025 -734	Kosmos-1170	Zenit-4MKM	-	-	NIIP-5	LC1	-	-	381	-	-
1980-027	2444339.07	1980 Apr 9 1338:22	Soyuz-U	-	Zh15000-189	Soyuz-35	Soyuz 7K-T No. 51	-	-	NIIP-5	LC31	-	-	354	-	-
1980-028	2444342.35	1980 Apr 12 2017:57	Molniya 8K78M	2BL	77025 -526	Kosmos-1172	Oko	-	-	NIIP-53	LC41/1	-	-	40334	-	-
1980-029	2444346.85	1980 Apr 17 0830	Soyuz-U	-	77025 -735	Kosmos-1173	Zenit-4MKM	-	-	NIIP-5	LC1	-	-	411	-	-
1980-031	2444348.23	1980 Apr 18 1731	Molniya 8K78M	ML	78055 -506	Kosmos-1175	Molniya-3 No. 26	-	-	NIIP-53	LC41/1	-	-	462	-	-
1980-033	2444356.77	1980 Apr 27 0624:11	Soyuz-U	-	Zh15000-210	Progress-9	Progress 7K-TG No. 109	-	-	NIIP-5	LC1	-	-	370	-	-
1980-035	2444359.06	1980 Apr 29 1330	Soyuz-U	-	Zh15000-213	Kosmos-1177	Yantar'-4K1 No. 2	-	-	NIIP-53	LC43/3	-	-	399	-	-
1980-036	2444367.04	1980 May 7 1300	Soyuz-U	-	78017 -449	Kosmos-1178	Zenit-6	-	-	NIIP-53	LC41/1	-	-	414	-	-
1980-038	2444374.73	1980 May 15 0535	Soyuz-U	-	78017 -448	Kosmos-1180	Orion	-	-	NIIP-53	LC43/3	-	-	397	-	-
1980-040	2444382.80	1980 May 23 0710	Soyuz-U	-	78017 -064	Kosmos-1182	Fram	-	-	NIIP-53	LC43/3	-	-	249	-	-
1980-041	2444386.26	1980 May 26 1820:39	Soyuz-U	-	P 15000-226	Soyuz-36	Soyuz 7K-T No. 52	-	-	NIIP-5	LC31	-	-	354	-	-
1980-042	2444388.00	1980 May 28 1200	Soyuz-U	-	76047 -446	Kosmos-1183	Zenit-6	-	-	NIIP-53	LC41/1	-	-	417	-	-
1980-044	2444394.82	1980 Jun 4 0734	Vostok 8A92M	-	76047 -351	Kosmos-1184	Tselina-D	-	-	NIIP-53	LC43/3	-	-	684	-	-
1980-045	2444396.10	1980 Jun 5 1419:30	Soyuz-U	-	Zh15000-196	Soyuz T-2	Soyuz 7K-ST No. 7L	-	-	NIIP-5	LC1	-	-	348	-	-
1980-046	2444396.79	1980 Jun 6 0700	Soyuz-U	-	78055 -928	Kosmos-1185	Resurs-F1 17F41 No. 12	-	-	NIIP-53	LC41/1	-	-	280	-	-
1980-048	2444403.02	1980 Jun 12 1230	Soyuz-U	-	78017 -451	Kosmos-1187	Zenit-6	-	-	NIIP-53	LC41/1	-	-	305	-	-
1980-050	2444405.37	1980 Jun 14 2051:34	Molniya 8K78M	2BL	77025 -527	Kosmos-1188	Oko	-	-	NIIP-53	LC43/3	-	-	40229	-	-
1980-051	2444408.76	1980 Jun 18 0614:12	Vostok 8A92M	-	76038 -313	Meteor-Priroda	Meteor-Priroda No. 3-1	-	-	NIIP-5	LC31	-	-	665	-	-
1980-053	2444412.27	1980 Jun 21 1834	Molniya 8K78M	ML	76047 -550	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40704	-	-
1980-054	2444417.01	1980 Jun 26 1220	Soyuz-U	-	78017 -450	Kosmos-1189	Zenit-6	-	-	NIIP-53	LC41/1	-	-	330	-	-
1980-055	2444419.69	1980 Jun 29 0440:42	Soyuz-U	-	P 15000-232	Progress-10	Progress 7K-TG No. 110	-	-	NIIP-5	LC1	-	-	338	-	-
1980-057	2444422.54	1980 Jul 2 0053:41	Molniya 8K78M	2BL	77025 -529	Kosmos-1191	Oko	-	-	NIIP-53	LC41/1	-	-	40566	-	-
1980-059	2444430.03	1980 Jul 9 1240	Soyuz-U	-	78017 -453	Kosmos-1200	Zenit-6	-	-	NIIP-53	LC41/1	-	-	340	-	-
1980-061	2444435.81	1980 Jul 15 0730	Soyuz-U	-	76047 -063	Kosmos-1201	Fram	-	-	NIIP-53	LC43/3	-	-	246	-	-
1980-063	2444438.94	1980 Jul 18 1037	Molniya 8K78M	ML	76047 -551	Molniya-3	Molniya-3 No. 27	-	-	NIIP-53	LC43/3	-	-	40816	-	-
1980-064	2444444.27	1980 Jul 23 1833:03	Soyuz-U	-	P 15000-238	Soyuz-37	Soyuz 7K-T No. 53	-	-	NIIP-5	LC1	-	-	350	-	-
1980-065	2444445.03	1980 Jul 24 1240	Soyuz-U	-	78017 -454	Kosmos-1202	Zenit-6	-	-	NIIP-53	LC43/3	-	-	306	-	-
1980-066	2444451.82	1980 Jul 31 0745	Soyuz-U	-	77023 -796	Kosmos-1203	Resurs-F1 17F41 No. 13	-	-	NIIP-53	LC43/3	-	-	412	-	-
1980-068	2444463.99	1980 Aug 12 1150	Soyuz-U	-	78017 -455	Kosmos-1205	Zenit-6	-	-	NIIP-53	LC43/3	-	-	304	-	-
1980-069	2444466.73	1980 Aug 15 0534	Vostok 8A92M	-	76047 -352	Kosmos-1206	Tselina-D	-	-	NIIP-53	LC43/3	-	-	688	-	-
1980-070	2444473.92	1980 Aug 22 1000	Soyuz-U	-	76047 -065	Kosmos-1207	Fram	-	-	NIIP-53	LC41/1	-	-	263	-	-
1980-071	2444478.15	1980 Aug 26 1530	Soyuz-U	-	77052 -960	Kosmos-1208	Feniks No. 927	-	-	NIIP-53	LC41/1	-	-	369	-	-
1980-072	2444485.93	1980 Sep 3 1020	Soyuz-U	-	76053 -476	Kosmos-1209	Resurs-F1 17F41 No. 14	-	-	NIIP-53	LC41/1	-	-	278	-	-
1980-073	2444491.96	1980 Sep 9 1100:00	Vostok 8A92M	-	78018 -308	Meteor-2	Meteor-2 No. 5	-	-	NIIP-53	LC43/3	-	-	922	-	-
1980-075	2444501.30	1980 Sep 18 1911:04	Soyuz-U	-	P 15000-242	Soyuz-38	Soyuz 7K-T No. 54	-	-	NIIP-5	LC1	-	-	338	-	-
1980-076	2444501.92	1980 Sep 19 1010	Soyuz-U	-	77023 -466	Kosmos-1210	Zenit-6	-	-	NIIP-53	LC41/1	-	-	484	-	-
1980-077	2444505.94	1980 Sep 23 1030	Soyuz-U	-	78055 -840	Kosmos-1211	Orion	-	-	NIIP-53	LC41/1	-	-	227	-	-
1980-078	2444508.92	1980 Sep 26 1010	Soyuz-U	-	77023 -076	Kosmos-1212	Fram	-	-	NIIP-53	LC41/1	-	-	238	-	-
1980-079	2444511.13	1980 Sep 28 1509:55	Soyuz-U	-	P 15000-219	Progress-11	Progress 7K-TG No. 111	-	-	NIIP-5	LC1	-	-	573	-	-
1980-080	2444516.00	1980 Oct 3 1200	Soyuz-U	-	77023 -469	Kosmos-1213	Zenit-6	-	-	NIIP-53	LC41/1	-	-	505	-	-
1980-082	2444523.05	1980 Oct 10 1310	Soyuz-U	-	77023 -467	Kosmos-1214	Zenit-4MKM	-	-	NIIP-53	LC41/1	-	-	427	-	-
1980-084	2444529.01	1980 Oct 16 1220	Soyuz-U	-	77023 -470	Kosmos-1216	Zenit-6	-	-	NIIP-53	LC41/1	-	-	450	-	-
1980-085	2444536.95	1980 Oct 24 1053:29	Molniya 8K78M	2BL	76047 -548	Kosmos-1217	Oko	-	-	NIIP-53	LC41/1	-	-	40293	-	-
1980-086	2444542.92	1980 Oct 30 1000	Soyuz-U	-	P 15000-233	Kosmos-1218	Yantar'-4K1 No. 3	-	-	NIIP-5	LC31	-	-	357	-	-
1980-088	2444544.00	1980 Oct 31 1200	Soyuz-U	-	77023 -471	Kosmos-1219	Zenit-6	-	-	NIIP-53	LC41/1	-	-	407	-	-
1980-090	2444556.02	1980 Nov 12 1230	Soyuz-U	-	77023 -472	Kosmos-1221	Zenit-6	-	-	NIIP-53	LC41/1	-	-	415	-	-
1980-092	2444559.68	1980 Nov 16 0418	Molniya 8K78M	ML	77025 -524	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40891	-	-
1980-093	2444565.00	1980 Nov 21 1153	Vostok 8A92M	-	76047 -353	Kosmos-1222	Tselina-D	-	-	NIIP-53	LC43/3	-	-	686	-	-
1980-094	2444571.10	1980 Nov 27 1418:28	Soyuz-U	-	Zh15000-202	Soyuz T-3	Soyuz 7K-ST No. 8L	-	-	NIIP-5	LC1	-	-	357	-	-
1980-095	2444571.40	1980 Nov 27 2137:10	Molniya 8K78M	2BL	78055 -536	Kosmos-1223	Oko	-	-	NIIP-53	LC41/1	-	-	40188	-	-
1980-096	2444575.01	1980 Dec 1 1215	Soyuz-U	-	77023 -473	Kosmos-1224	Zenit-6	-	-	NIIP-53	LC43/3	-	-	443	-	-
1980-101	2444590.01	1980 Dec 16 1215	Soyuz-U	-	77023 -475	Kosmos-1227	Zenit-6	-	-	NIIP-53	LC43/3	-	-	305	-	-
1980-103	2444598.67	1980 Dec 25 0402	Molniya 8K78M	SOL	P 15000-203	Prognoz-8	SO-M No. 508	-	-	NIIP-5	LC31	-	-	150000	-	-
1980-105	2444600.17	1980 Dec 26 1610	Soyuz-U	-	76038 -913	Kosmos-1236	Feniks No. 941	-	-	NIIP-53	LC41/1	-	-	395	-	-
1981-001	2444611.01	1981 Jan 6 1215	Soyuz-U	-	77023 -474	Kosmos-1237	Zenit-6	-	-	NIIP-53	LC41/1	-	-	415	-	-
1981-002	2444614.12	1981 Jan 9 1457	Molniya 8K78M	ML	77023 -617	Molniya-3	Molniya-3 No. 25	-	-	NIIP-53	LC41/1	-	-	40762	-	-
1981-004	2444621.00	1981 Jan 16 1200	Soyuz-U	-	78017 -821	Kosmos-1239	Orion	-	-	NIIP-53	LC41/1	-	-	224	-	-
1981-005	2444624.96	1981 Jan 20 1100	Soyuz-U	-	77023 -975	Kosmos-1240	Feniks No. 975	-	-	NIIP-5	LC31	-	-	385	-	-
1981-007	2444629.10	1981 Jan 24 1418:02	Soyuz-U	-	P 15000-235	Progress-12	Progress 7K-TG No. 113	-	-	NIIP-5	LC1	-	-	359	-	-
1981-008	2444632.12	1981 Jan 27 1458	Vostok 8A92M	-	78017 -354	Kosmos-1242	Tselina-D	-	-	NIIP-53	LC43/3	-	-	701	-	-
1981-009	2444635.19	1981 Jan 30 1627	Molniya 8K78M	ML	76038 -510	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40979	-	-
1981-014	2444648.97	1981 Feb 13 1115	Soyuz-U	-	76053 -478	Kosmos-1245	Zenit-6	-	-	NIIP-53	LC43/3	-	-	437	-	-
1981-015	2444653.88	1981 Feb 18 0900	Soyuz-U	-	Ts15000-264	Kosmos-1246	Siluet No. 1	-	-	NIIP-5	LC31	-	-	274	-	-
1981-016	2444654.92	1981 Feb 19 1000:26	Molniya 8K78M	2BL	76047 -549	Kosmos-1247	Oko	-	-	NIIP-53	LC16/2	-	-	39741	-	-
1981-020	2444669.12	1981 Mar 5 1500	Soyuz-U	-	77023 -475 ?	Kosmos-1248	Feniks No. 940	-	-	NIIP-53	LC41/1	-	-	363	-	-
1981-023	2444676.29	1981 Mar 12 1900:11	Soyuz-U	-	Ts15000-266	Soyuz T-4	Soyuz 7K-ST No. 10L	-	-	NIIP-5	LC1	-	-	373	-	-
1981-026	2444680.86	1981 Mar 17 0840	Soyuz-U	-	77023 -468	Kosmos-1259	Zenit-6	-	-	NIIP-5	LC31	-	-	571	-	-
1981-029	2444686.12	1981 Mar 22 1458:55	Soyuz-U	-	P 15000-257	Soyuz-39	Soyuz 7K-T No. 55	-	-	NIIP-5	LC31	-	-	350	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-030	2444687.65	1981 Mar 24 0331	Molniya 8K78M	ML	77025 -525	Molniya-3	Molniya-3 No. 24	-	-	NIIP-53	LC41/1	-	-	40858	-	-
1981-F02	2444691.90	1981 Mar 28 0930	Soyuz-U	-	78055 -927	-	Feniks No. 979	-	-	NIIP-5	LC31	-	-	20?	-	-
1981-031	2444694.90	1981 Mar 31 0939:49	Molniya 8K78M	2BL	78017 -553	Kosmos-1261	Oko	-	-	NIIP-53	LC41/1	-	-	39765	-	-
1981-032	2444701.95	1981 Apr 7 1051	Soyuz-U	-	76053 -480	Kosmos-1262	Zenit-6	-	-	NIIP-53	LC43/3	-	-	391	-	-
1981-035	2444709.94	1981 Apr 15 1030	Soyuz-U	-	76053 -482	Kosmos-1264	Zenit-6	-	-	NIIP-5	LC31	-	-	459	-	-
1981-036	2444710.98	1981 Apr 16 1130	Soyuz-U	-	76053 -479	Kosmos-1265	Zenit-6	-	-	NIIP-53	LC41/1	-	-	477	-	-
1981-040	2444722.88	1981 Apr 28 0900	Soyuz-U	-	77053 -484	Kosmos-1268	Zenit-6	-	-	NIIP-5	LC31	-	-	451	-	-
1981-042	2444739.22	1981 May 14 1716:38	Soyuz-U	-	P 15000-246	Soyuz-40	Soyuz 7K-T No. 56	-	-	NIIP-5	LC1	-	-	372	-	-
1981-043	2444739.41	1981 May 14 2145:00	Vostok 8A92M	-	77052 -392	Meteor-2	Meteor-2 No. 8	-	-	NIIP-53	LC43/3	-	-	925	-	-
1981-045	2444742.99	1981 May 18 1150	Soyuz-U	-	76053 -485	Kosmos-1270	Feniks No. 980	-	-	NIIP-5	LC31	-	-	405	-	-
1981-046	2444743.66	1981 May 19 0349	Vostok 8A92M	-	78017 -355	Kosmos-1271	Tselina-D	-	-	NIIP-53	LC43/3	-	-	777	-	-
1981-047	2444745.88	1981 May 21 0910	Soyuz-U	-	78039 -418	Kosmos-1272	Zenit-6	-	-	NIIP-5	LC31	-	-	424	-	-
1981-048	2444746.80	1981 May 22 0710	Soyuz-U	-	76053 -077	Kosmos-1273	Fram	-	-	NIIP-53	LC41/1	-	-	404	-	-
1981-052	2444759.08	1981 Jun 3 1400	Soyuz-U	-	76053 -483	Kosmos-1274	Feniks No. 942	-	-	NIIP-53	LC41/1	-	-	371	-	-
1981-054	2444764.65	1981 Jun 9 0333	Molniya 8K78M	ML	76053 -622	Molniya-3	Molniya-3 No. 30	-	-	NIIP-53	LC41/1	-	-	40880	-	-
1981-055	2444771.79	1981 Jun 16 0700	Soyuz-U	-	78039 -078	Kosmos-1276	Fram	-	-	NIIP-53	LC43/3	-	-	438	-	-
1981-056	2444772.90	1981 Jun 17 0930	Soyuz-U	-	78039 -417	Kosmos-1277	Zenit-6	-	-	NIIP-5	LC31	-	-	417	-	-
1981-058	2444775.32	1981 Jun 19 1937:04	Molniya 8K78M	2BL	76047 -554	Kosmos-1278	Oko	-	-	NIIP-53	LC43/3	-	-	40416	-	-
1981-060	2444780.24	1981 Jun 24 1747	Molniya 8K78M	ML	76038 -607	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40761	-	-
1981-062	2444786.90	1981 Jul 1 0930	Soyuz-U	-	78039 -422	Kosmos-1279	Zenit-6	-	-	NIIP-5	LC31	-	-	419	-	-
1981-063	2444787.80	1981 Jul 2 0710	Soyuz-U	-	78026 -663	Kosmos-1280	Resurs-F1 17F41 No. 15	-	-	NIIP-53	LC43/3	-	-	443	-	-
1981-064	2444793.02	1981 Jul 7 1230	Soyuz-U	-	76053 -477	Kosmos-1281	Zenit-6	-	-	NIIP-53	LC43/3	-	-	430	-	-
1981-065	2444795.72	1981 Jul 10 0514	Vostok 8A92M	-	76042 -389	Meteor-Priroda	Meteor-Priroda No. 2-4	-	-	NIIP-5	LC31	-	-	708	-	-
1981-066	2444801.04	1981 Jul 15 1300	Soyuz-U	-	78017 -951	Kosmos-1282	Feniks No. 951	-	-	NIIP-5	LC31	-	-	355	-	-
1981-067	2444802.83	1981 Jul 17 0800	Soyuz-U	-	76047 -940	Kosmos-1283	Zenit-6	-	-	NIIP-53	LC41/1	-	-	399	-	-
1981-068	2444815.00	1981 Jul 29 1155	Soyuz-U	-	78039 -421	Kosmos-1284	Zenit-6	-	-	NIIP-53	LC41/1	-	-	370	-	-
1981-071	2444820.51	1981 Aug 4 0012:58	Molniya 8K78M	2BL	76047 -522	Kosmos-1285	Oko	-	-	NIIP-53	LC16/2	-	-	40249	-	-
1981-075	2444824.07	1981 Aug 7 1335	Vostok 8A92M	-	78039 -375	IK Bulgaria-1300	IK Bulgaria-1300	-	-	NIIP-53	LC43/3	-	-	902	-	-
1981-078	2444830.18	1981 Aug 13 1620	Soyuz-U	-	76053 -978	Kosmos-1296	Feniks No. 943	-	-	NIIP-53	LC41/1	-	-	387	-	-
1981-079	2444834.90	1981 Aug 18 0930	Soyuz-U	-	76053 -481	Kosmos-1297	Zenit-6	-	-	NIIP-53	LC41/1	-	-	362	-	-
1981-080	2444837.93	1981 Aug 21 1020	Soyuz-U	-	78039 -115	Kosmos-1298	Yantar'-4K2	-	-	NIIP-5	LC31	-	-	418	-	-
1981-083	2444843.94	1981 Aug 27 1030	Soyuz-U	-	77049 -116	Kosmos-1301	Resurs-F1 17F41 No. 16	-	-	NIIP-53	LC41/1	-	-	322	-	-
1981-086	2444851.83	1981 Sep 4 0800	Soyuz-U	-	78017 -941	Kosmos-1303	Zenit-6	-	-	NIIP-5	LC31	-	-	415	-	-
1981-088	2444858.86	1981 Sep 11 0843:10	Molniya 8K78M	ML	78055 -535	Kosmos-1305	Molniya-3 No. 28	-	-	NIIP-53	LC43/3	-	-	13864	-	-
1981-090	2444862.98	1981 Sep 15 1130	Soyuz-U	-	78039 -416	Kosmos-1307	Zenit-6	-	-	NIIP-53	LC43/3	-	-	564	-	-
1981-092	2444865.90	1981 Sep 18 0930	Soyuz-U	-	77023 -802	Kosmos-1309	Orion	-	-	NIIP-53	LC43/3	-	-	254	-	-
1981-099	2444878.88	1981 Oct 1 0900	Soyuz-U	-	78039 -427	Kosmos-1313	Zenit-6	-	-	NIIP-5	LC31	-	-	289	-	-
1981-101	2444886.94	1981 Oct 9 1040	Soyuz-U	-	77049 -079	Kosmos-1314	Fram	-	-	NIIP-53	LC41/1	-	-	271	-	-
1981-103	2444891.46	1981 Oct 13 2301	Vostok 8A92M	-	78017 -357	Kosmos-1315	Tselina-D	-	-	NIIP-53	LC43/3	-	-	689	-	-
1981-104	2444892.89	1981 Oct 15 0915	Soyuz-U	-	78039 -423	Kosmos-1316	Zenit-6	-	-	NIIP-5	LC31	-	-	384	-	-
1981-105	2444894.75	1981 Oct 17 0559	Molniya 8K78M	ML	78055 -530	Molniya-3	Molniya-3 No. 31	-	-	NIIP-53	LC41/1	-	-	40899	-	-
1981-108	2444909.45	1981 Oct 31 2253:31	Molniya 8K78M	2BL	76047 -555	Kosmos-1317	Oko	-	-	NIIP-53	LC16/2	-	-	40162	-	-
1981-109	2444912.04	1981 Nov 3 1300	Soyuz-U	-	77023 -977	Kosmos-1318	Feniks No. 944	-	-	NIIP-53	LC41/1	-	-	390	-	-
1981-112	2444921.90	1981 Nov 13 0930	Soyuz-U	-	78039 -429	Kosmos-1319	Zenit-6	-	-	NIIP-5	LC31	-	-	648	-	-
1981-113	2444926.14	1981 Nov 17 1525	Molniya 8K78M	ML	78026 -601	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40857	-	-
1981-118	2444942.91	1981 Dec 4 0950	Soyuz-U	-	76053 -980	Kosmos-1329	Zenit-6	-	-	NIIP-5	LC31	-	-	288	-	-
1981-121	2444957.99	1981 Dec 19 1150	Soyuz-U	-	77049 -428	Kosmos-1330	Feniks No. 952	-	-	NIIP-5	LC31	-	-	384	-	-
1981-123	2444962.05	1981 Dec 23 1315	Molniya 8K78M	ML	78039 -640	Molniya-1	Molniya-1 11F658 No. 55	-	-	NIIP-5	LC1	-	-	40076	-	-
1982-002	2444982.02	1982 Jan 12 1230	Soyuz-U	-	77023 -076 976?	Kosmos-1332	Orion	-	-	NIIP-53	LC41/1	-	-	254	-	-
1982-005	2444989.98	1982 Jan 20 1130	Soyuz-U	-	78039 -424	Kosmos-1334	Zenit-6	-	-	NIIP-53	LC16/2	-	-	437	-	-
1982-008	2444999.98	1982 Jan 30 1130	Soyuz-U	-	78039 -953	Kosmos-1336	Feniks No. 953	-	-	NIIP-5	LC31	-	-	376	-	-
1982-011	2445016.97	1982 Feb 16 1110	Soyuz-U	-	78039 -419	Kosmos-1338	Zenit-6	-	-	NIIP-53	LC41/1	-	-	414	-	-
1982-013	2445019.57	1982 Feb 19 0142	Vostok 8A92M	-	77023 -338	Kosmos-1340	Tselina-D	-	-	NIIP-53	LC16/2	-	-	671	-	-
1982-015	2445027.34	1982 Feb 26 2010	Molniya 8K78M	ML	77023 -620	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40749	-	-
1982-016	2445031.74	1982 Mar 3 0544:38	Molniya 8K78M	2BL	77023 -618	Kosmos-1341	Oko	-	-	NIIP-53	LC16/2	-	-	39717	-	-
1982-018	2445033.95	1982 Mar 5 1050	Soyuz-U	-	78039 -420	Kosmos-1342	Zenit-6	-	-	NIIP-53	LC41/1	-	-	306	-	-
1982-021	2445045.94	1982 Mar 17 1030	Soyuz-U	-	78039 -425	Kosmos-1343	Zenit-6	-	-	NIIP-53	LC41/1	-	-	328	-	-
1982-023	2445052.51	1982 Mar 24 0012:00	Molniya 8K78M	ML	78039 -638	Molniya-3	Molniya-3 No. 29	-	-	NIIP-53	LC41/1	-	-	40623	-	-
1982-027	2445060.19	1982 Mar 31 1627	Vostok 8A92M	-	77023 -339	Kosmos-1346	Tselina-D	-	-	NIIP-53	LC16/2	-	-	681	-	-
1982-028	2445061.93	1982 Apr 2 1015	Soyuz-U	-	Sh15000-310	Kosmos-1347	Yantar'-4K2	-	-	NIIP-5	LC31	-	-	426	-	-
1982-029	2445067.07	1982 Apr 7 1341:47	Molniya 8K78M	2BL	77023 -621	Kosmos-1348	Oko	-	-	NIIP-53	LC16/2	-	-	39750	-	-
1982-032	2445075.10	1982 Apr 15 1430	Soyuz-U	-	76053 -979	Kosmos-1350	Feniks No. 978	-	-	NIIP-53	LC41/1	-	-	418	-	-
1982-035	2445080.89	1982 Apr 21 0915	Soyuz-U	-	78039 -426	Kosmos-1352	Zenit-6	-	-	NIIP-5	LC31	-	-	415	-	-
1982-036	2445082.90	1982 Apr 23 0940	Soyuz-U	-	76054 -080	Kosmos-1353	Fram	-	-	NIIP-53	LC41/1	-	-	248	-	-
1982-039	2445094.83	1982 May 5 0801	Vostok 8A92M	-	77023 -340	Kosmos-1356	Tselina-D	-	-	NIIP-53	LC16/2	-	-	703	-	-
1982-042	2445102.92	1982 May 13 0958:05	Soyuz-U	-	Ts15000-272	Soyuz T-5	Soyuz 7K-ST No. 11L	-	-	NIIP-5	LC1	-	-	343	-	-
1982-F02	2445105.10	1982 May 15 1420	Soyuz-U	-	77049 -431	-	Zenit-6	-	-	NIIP-53	LC41/1	-	-	10?	-	-
1982-045	2445110.05	1982 May 20 1308:31	Molniya 8K78M	2BL	76053 -624	Kosmos-1367	Oko	-	-	NIIP-53	LC41/1	-	-	39770	-	-
1982-046	2445111.03	1982 May 21 1240	Soyuz-U	-	78018 -710	Kosmos-1368	Zenit-6	-	-	NIIP-5	LC31	-	-	370	-	-
1982-047	2445112.75	1982 May 23 0556:41	Soyuz-U	-	Ts15000-283	Progress-13	Progress 7K-TG No. 114	-	-	NIIP-5	LC1	-	-	347	-	-
1982-048	2445114.88	1982 May 25 0900	Soyuz-U	-	76054 -117	Kosmos-1369	Resurs-F1 17F41 No. 17	-	-	NIIP-53	LC43/3	-	-	285	-	-
1982-049	2445117.88	1982 May 28 0910	Soyuz-U	-	Ts15000-290	Kosmos-1370	Siluet No. 2	-	-	NIIP-5	LC31	-	-	275	-	-
1982-050	2445118.42	1982 May 28 2202:59	Molniya 8K78M	ML	78017 -556	Molniya-1	Molniya-1	-	-	NIIP-53	LC43/3	-	-	40635	-	-
1982-053	2445123.03	1982 Jun 2 1250	Soyuz-U	-	77049 -430	Kosmos-1373	Zenit-6	-	-	NIIP-5	LC31	-	-	593	-	-
1982-056	2445128.82	1982 Jun 8 0745	Soyuz-U	-	76054 -118	Kosmos-1376	Resurs-F1 17F41 No. 18	-	-	NIIP-53	LC43/3	-	-	286	-	-
1982-057	2445129.00	1982 Jun 8 1200	Soyuz-U	-	78039 -215	Kosmos-1377	Oktan No. 215	-	-	NIIP-5	LC31	-	-	404	-	-
1982-F03	2445132.88	1982 Jun 12 0900	Soyuz-U	-	77049 -435	-	Zenit-6	-	-	NIIP-5	LC31	-	-	80?	-	-
1982-062	2445139.04	1982 Jun 18 1300	Soyuz-U	-	77049 -434	Kosmos-1381	Zenit-6	-	-	NIIP-5	LC31	-	-	459	-	-
1982-063	2445145.19	1982 Jun 24 1629:48	Soyuz-U	-	Ts15000-269	Soyuz T-6	Soyuz 7K-ST No. 9L	-	-	NIIP-5	LC1	-	-	319	-	-
1982-064	2445145.60	1982 Jun 25 0228:02	Molniya 8K78M	2BL	76053 -626	Kosmos-1382	Oko	-	-	NIIP-53	LC43/3	-	-	39750	-	-
1982-067	2445151.12	1982 Jun 30 1500	Soyuz-U	-	78017 -054	Kosmos-1384	Feniks No. 954	-	-	NIIP-53	LC41/1	-	-	411	-	-
1982-068	2445156.83	1982 Jul 6 0750	Soyuz-U	-	77049 -433	Kosmos-1385	Zenit-6	-	-	NIIP-53	LC41/1	-	-	551	-	-
1982-070	2445160.92	1982 Jul 10 0957:44	Soyuz-U	-	Sh15000-318	Progress-14	Progress 7K-TG No. 117	-	-	NIIP-5	LC1	-	-	429	-	-
1982-071	2445163.83	1982 Jul 13 0800	Soyuz-U	-	76054 -081	Kosmos-1387	Fram	-	-	NIIP-53	LC43/3	-	-	250	-	-
1982-074	2445171.90	1982 Jul 21 0940:02	Molniya 8K78M	ML	76054 -652	Molniya-1	Molniya-1 11F658 No. 62	-	-	NIIP-5	LC1	-	-	40041	-	-
1982-075	2445178.02	1982 Jul 27 1230	Soyuz-U	-	77049 -432	Kosmos-1396	Zenit-6	-	-	NIIP-53	LC16/2	-	-	296	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-077	2445184.98	1982 Aug 3 1130	Soyuz-U	-	77049 -803	Kosmos-1398	Orion	-	-	NIIP-53	LC43/3	-	-	244	-	-
1982-078	2445185.98	1982 Aug 4 1130	Soyuz-U	-	77049 -216	Kosmos-1399	Oktan No. 216	-	-	NIIP-5	LC31	-	-	354	-	-
1982-079	2445186.79	1982 Aug 5 0656	Vostok 8A92M	-	76053 -341	Kosmos-1400	Tselina-D	-	-	NIIP-53	LC16/2	-	-	690	-	-
1982-080	2445201.22	1982 Aug 19 1711:52	Soyuz-U	-	Ts15000-276	Soyuz T-7	Soyuz 7K-ST No. 12L	-	-	NIIP-5	LC1	-	-	379	-	-
1982-081	2445201.91	1982 Aug 20 0950	Soyuz-U	-	76054 -119	Kosmos-1401	Resurs-F1 17F41 No. 19	-	-	NIIP-53	LC41/1	-	-	399	-	-
1982-083	2445208.50	1982 Aug 27 0002	Molniya 8K78M	ML	76047 -547	Molniya-3	Molniya-3 No. 33	-	-	NIIP-53	LC41/1	-	-	40859	-	-
1982-085	2445213.88	1982 Sep 1 0900	Soyuz-U	-	76054 -763	Kosmos-1403	Zenit-6	-	-	NIIP-5	LC31	-	-	592	-	-
1982-086	2445213.99	1982 Sep 1 1140	Soyuz-U	-	78017 -944	Kosmos-1404	Zenit-6	-	-	NIIP-53	LC43/3	-	-	592	-	-
1982-089	2445220.93	1982 Sep 8 1020	Soyuz-U	-	77024 -082	Kosmos-1406	Fram	-	-	NIIP-53	LC41/1	-	-	231	-	-
1982-091	2445228.15	1982 Sep 15 1530	Soyuz-U	-	77049 -955	Kosmos-1407	Feniks No. 955	-	-	NIIP-53	LC41/1	-	-	364	-	-
1982-094	2445230.71	1982 Sep 18 0458:54	Soyuz-U	-	Ts15000-292	Progress-15	Progress 7K-TG No. 112	-	-	NIIP-5	LC1	-	-	374	-	-
1982-095	2445234.77	1982 Sep 22 0623:11	Molniya 8K78M	2BL	76053 -639	Kosmos-1409	Oko	-	-	NIIP-53	LC16/2	-	-	40163	-	-
1982-098	2445242.99	1982 Sep 30 1150	Soyuz-U	-	76054 -761	Kosmos-1411	Zenit-6	-	-	NIIP-53	LC16/2	-	-	356	-	-
1982-101	2445256.88	1982 Oct 14 0910	Soyuz-U	-	76054 -764	Kosmos-1416	Zenit-6	-	-	NIIP-5	LC31	-	-	355	-	-
1982-107	2445273.97	1982 Oct 31 1120:36	Soyuz-U	-	Sh15000-335	Progress-16	Progress 7K-TG No. 115	-	-	NIIP-5	LC1	-	-	362	-	-
1982-108	2445275.90	1982 Nov 2 0930	Soyuz-U	-	76054 -765	Kosmos-1419	Zenit-6	-	-	NIIP-5	LC31	-	-	320	-	-
1982-112	2445291.89	1982 Nov 18 0925	Soyuz-U	-	76054 -767	Kosmos-1421	Zenit-6	-	-	NIIP-5	LC31	-	-	281	-	-
1982-114	2445307.00	1982 Dec 3 1200	Soyuz-U	-	76054 -766	Kosmos-1422	Zenit-6	-	-	NIIP-53	LC43/3	-	-	288	-	-
1982-115	2445312.07	1982 Dec 8 1346	Molniya 8K78M	ML	77024 -656	Kosmos-1423	Molniya-1 11F658 No. 60	-	-	NIIP-5	LC1	-	-	589	-	-
1982-116	2445318.44	1982 Dec 14 2230:00	Vostok 8A92M	-	78017 -356	Meteor-2	Meteor-2 No. 9	-	-	NIIP-53	LC43/3	-	-	907	-	-
1982-117	2445319.92	1982 Dec 16 1000	Soyuz-U	-	77049 -217	Kosmos-1424	Oktan No. 217	-	-	NIIP-5	LC31	-	-	350	-	-
1982-119	2445326.88	1982 Dec 23 0910	Soyuz-U2	-	77024 -777 (002?)	Kosmos-1425	Zenit-6	-	-	NIIP-5	LC1	-	-	442	-	-
1982-120	2445332.00	1982 Dec 28 1200	Soyuz-U	-	Sh15000-332	Kosmos-1426	Yantar'-4KS1	-	-	NIIP-5	LC31	-	-	413	-	-
1983-003	2445355.23	1983 Jan 20 1726	Vostok 8A92M	-	76053 -342	Kosmos-1437	Tselina-D	-	-	NIIP-53	LC16/2	-	-	684	-	-
1983-005	2445361.85	1983 Jan 27 0830	Soyuz-U	-	77024 -773	Kosmos-1438	Zenit-6	-	-	NIIP-5	LC31	-	-	369	-	-
1983-007	2445371.98	1983 Feb 6 1131	Soyuz-U	-	77049 -956	Kosmos-1439	Feniks No. 956	-	-	NIIP-5	LC31	-	-	346	-	-
1983-009	2445375.80	1983 Feb 10 0715	Soyuz-U	-	77024 -120	Kosmos-1440	Resurs-F1 17F41 No. 20	-	-	NIIP-53	LC41/1	-	-	276	-	-
1983-010	2445381.92	1983 Feb 16 1003	Vostok 8A92M	-	76053 -343	Kosmos-1441	Tselina-D	-	-	NIIP-53	LC16/2	-	-	683	-	-
1983-012	2445391.03	1983 Feb 25 1245	Soyuz-U	-	76054 -248	Kosmos-1442	Oktan No. 248	-	-	NIIP-53	LC41/1	-	-	365	-	-
1983-014	2445395.95	1983 Mar 2 1050	Soyuz-U	-	78017 -943	Kosmos-1444	Zenit-6	-	-	NIIP-53	LC41/1	-	-	418	-	-
1983-015	2445405.15	1983 Mar 11 1529:00	Molniya 8K78M	ML	78039 -641	Molniya-3	Molniya-3 No. 34	-	-	NIIP-53	LC41/1	-	-	40794	-	-
1983-018	2445409.87	1983 Mar 16 0850	Soyuz-U2	-	77024 -778 (001?)	Kosmos-1446	Zenit-6	-	-	NIIP-5	LC1	-	-	343	-	-
1983-019	2445410.26	1983 Mar 16 1814	Molniya 8K78M	ML	76053 -625	Molniya-1	Molniya-1	-	-	NIIP-53	LC41/1	-	-	40825	-	-
1983-024	2445424.95	1983 Mar 31 1050	Soyuz-U	-	77024 -770	Kosmos-1449	Zenit-6	-	-	NIIP-53	LC16/2	-	-	431	-	-
1983-025	2445426.58	1983 Apr 2 0202:00	Molniya 8K78M	ML	77024 -654	Molniya-1	Molniya-1 11F658T No. 68	-	-	NIIP-5	LC1	-	-	40059	-	-
1983-029	2445432.85	1983 Apr 8 0830	Soyuz-U	-	77024 -772	Kosmos-1451	Zenit-6	-	-	NIIP-53	LC43/4	-	-	322	-	-
1983-035	2445445.05	1983 Apr 20 1310:54	Soyuz-U	-	Sh15000-342	Soyuz T-8	Soyuz 7K-ST No. 13L	-	-	NIIP-5	LC1	-	-	305	-	-
1983-036	2445447.10	1983 Apr 22 1430	Soyuz-U	-	76054 -957	Kosmos-1454	Feniks No. 957	-	-	NIIP-53	LC41/1	-	-	354	-	-
1983-038	2445450.32	1983 Apr 25 1933:43	Molniya 8K78M	2BL	77049 -646	Kosmos-1456	Oko	-	-	NIIP-53	LC16/2	-	-	40100	-	-
1983-039	2445450.92	1983 Apr 26 1000	Soyuz-U	-	78039 -214	Kosmos-1457	Oktan No. 214	-	-	NIIP-5	LC31	-	-	362	-	-
1983-040	2445452.85	1983 Apr 28 0830	Soyuz-U	-	76054 -768	Kosmos-1458	Fram	-	-	NIIP-53	LC41/1	-	-	246	-	-
1983-043	2445460.88	1983 May 6 0910	Soyuz-U	-	77024 -771	Kosmos-1460	Zenit-6	-	-	NIIP-5	LC31	-	-	415	-	-
1983-045	2445471.83	1983 May 17 0800	Soyuz-U	-	78055 -839	Kosmos-1462	Resurs-F1 17F41 No. 21	-	-	NIIP-53	LC41/1	-	-	443	-	-
1983-050	2445481.00	1983 May 26 1200	Soyuz-U	-	77024 -250	Kosmos-1466	Oktan No. 250	-	-	NIIP-5	LC31	-	-	440	-	-
1983-052	2445485.99	1983 May 31 1140	Soyuz-U	-	77024 -775	Kosmos-1467	Zenit-6	-	-	NIIP-53	LC43/4	-	-	419	-	-
1983-055	2445492.83	1983 Jun 7 0750	Soyuz-U	-	78012 -122	Kosmos-1468	Resurs-F1 17F41 No. 22	-	-	NIIP-53	LC41/1	-	-	278	-	-
1983-057	2445500.01	1983 Jun 14 1215	Soyuz-U	-	76054 -762	Kosmos-1469	Zenit-6	-	-	NIIP-53	LC43/4	-	-	376	-	-
1983-062	2445512.88	1983 Jun 27 0912:18	Soyuz-U	-	Sh15000-349	Soyuz T-9	Soyuz 7K-ST No. 14L	-	-	NIIP-5	LC1	-	-	357	-	-
1983-064	2445514.12	1983 Jun 28 1500	Soyuz-U	-	77024 -958	Kosmos-1471	Feniks No. 958	-	-	NIIP-53	LC41/1	-	-	383	-	-
1983-067	2445517.01	1983 Jul 1 1217	Molniya 8K78M	SOL	Ts15000-214	Prognoz-9	SO-M No. 509	-	-	NIIP-5	LC31	-	-	150000	-	-
1983-068	2445520.83	1983 Jul 5 0750	Soyuz-U	-	78012 -123	Kosmos-1472	Zenit-6	-	-	NIIP-53	LC41/1	-	-	531	-	-
1983-070	2445524.31	1983 Jul 8 1921	Molniya 8K78M	2BL	76054 -647	Kosmos-1481	Oko	-	-	NIIP-53	LC43/3	-	-	39199	-	-
1983-071	2445528.90	1983 Jul 13 0940	Soyuz-U	-	78012 -781	Kosmos-1482	Zenit-6	-	-	NIIP-5	LC1	-	-	569	-	-
1983-073	2445535.13	1983 Jul 19 1514	Molniya 8K78M	ML	78012 -660	Molniya-1	Molniya-1 11F658 No. 66	-	-	NIIP-5	LC1	-	-	40095	-	-
1983-074	2445535.83	1983 Jul 20 0800	Soyuz-U	-	78012 -083	Kosmos-1483	Resurs-F1 17F41 No. 23	-	-	NIIP-53	LC43/4	-	-	449	-	-
1983-075	2445539.74	1983 Jul 24 0550:37	Vostok 8A92M	-	77049 -376	Kosmos-1484	Resurs-OE No. 3-2	-	-	NIIP-5	LC31	-	-	683	-	-
1983-076	2445542.00	1983 Jul 26 1200	Soyuz-U	-	76054 -769? (269?)	Kosmos-1485	Zenit-6	-	-	NIIP-53	LC16/2	-	-	425	-	-
1983-080	2445551.89	1983 Aug 5 0920	Soyuz-U	-	78012 -125	Kosmos-1487	Resurs-F1 17F41 No. 25	-	-	NIIP-53	LC43/4	-	-	457	-	-
1983-082	2445555.97	1983 Aug 9 1120	Soyuz-U	-	77024 -774	Kosmos-1488	Zenit-6	-	-	NIIP-53	LC43/4	-	-	582	-	-
1983-083	2445557.04	1983 Aug 10 1300	Soyuz-U	-	77024 -252	Kosmos-1489	Oktan No. 252	-	-	NIIP-5	LC1	-	-	363	-	-
1983-085	2445564.01	1983 Aug 17 1208:23	Soyuz-U	-	Ts15000-302	Progress-17	Progress 7K-TG No. 119	-	-	NIIP-5	LC1	-	-	358	-	-
1983-087	2445569.96	1983 Aug 23 1105	Soyuz-U	-	77024 -776	Kosmos-1493	Zenit-6	-	-	NIIP-53	LC43/4	-	-	430	-	-
1983-090	2445577.45	1983 Aug 30 2249:00	Molniya 8K78M	ML	76054 -650	Molniya-3	Molniya-3 No. 32	-	-	NIIP-53	LC41/1	-	-	40798	-	-
1983-092	2445580.93	1983 Sep 3 1015	Soyuz-U	-	78012 -084	Kosmos-1495	Fram	-	-	NIIP-53	LC43/4	-	-	242	-	-
1983-093	2445585.06	1983 Sep 7 1324	Soyuz-U	-	78012 -782	Kosmos-1496	Oktan No. 251	-	-	NIIP-53	LC16/2	-	-	393	-	-
1983-095	2445586.96	1983 Sep 9 1100	Soyuz-U	-	78012 -783	Kosmos-1497	Zenit-6	-	-	NIIP-53	LC43/4	-	-	581	-	-
1983-096	2445591.93	1983 Sep 14 1025	Soyuz-U	-	78039 -952	Kosmos-1498	Resurs-F1 17F41 No. 24	-	-	NIIP-53	LC41/1	-	-	470	-	-
1983-097	2445594.97	1983 Sep 17 1115	Soyuz-U	-	77024 -251	Kosmos-1499	Zenit-6	-	-	NIIP-53	LC41/1	-	-	574	-	-
1983-F02	2445604.32	1983 Sep 26 1937:51	Soyuz-U	-	Yu15000-363	Soyuz T	Soyuz 7K-ST No. 16L	-	-	NIIP-5	LC1	-	-	1	-	-
1983-104	2445621.92	1983 Oct 14 1000	Soyuz-U	-	77024 -803	Kosmos-1504	Yantar'-4K2	-	-	NIIP-5	LC31	-	-	390	-	-
1983-106	2445627.92	1983 Oct 20 0959:05	Soyuz-U	-	Ts15000-287	Progress-18	Progress 7K-TG No. 118	-	-	NIIP-5	LC31	-	-	347	-	-
1983-107	2445629.01	1983 Oct 21 1210	Soyuz-U	-	78012 -784	Kosmos-1505	Zenit-6	-	-	NIIP-53	LC16/2	-	-	581	-	-
1983-109	2445635.88	1983 Oct 28 0900:00	Vostok 8A92M	-	77025 -325	Meteor-2	Meteor-2 No. 10	-	-	NIIP-53	LC16/2	-	-	901	-	-
1983-112	2445656.01	1983 Nov 17 1215	Soyuz-U	-	78012 -785	Kosmos-1509	Zenit-6	-	-	NIIP-53	LC16/2	-	-	443	-	-
1983-114	2445662.20	1983 Nov 23 1645	Molniya 8K78M	ML	77023 -619	Molniya-1	Molniya-1 No. 48	-	-	NIIP-53	LC41/1	-	-	39977	-	-
1983-117	2445669.07	1983 Nov 30 1345	Soyuz-U	-	77024 -249	Kosmos-1511	Oktan No. 249	-	-	NIIP-53	LC41/1	-	-	448	-	-
1983-119	2445676.01	1983 Dec 7 1210	Soyuz-U	-	78012 -786	Kosmos-1512	Zenit-6	-	-	NIIP-53	LC41/1	-	-	563	-	-
1983-121	2445682.79	1983 Dec 14 0700	Soyuz-U	-	Yu15000-371	Kosmos-1514	Bion No. 6	-	-	NIIP-53	LC41/1	-	-	293	-	-
1983-123	2445689.76	1983 Dec 21 0607:59	Molniya 8K78M	ML	76054 -648	Molniya-3	Molniya-3 No. 35	-	-	NIIP-53	LC41/1	-	-	40837	-	-
1983-124	2445695.90	1983 Dec 27 0930	Soyuz-U	-	Sh15000-345	Kosmos-1516	Siluet No. 3	-	-	NIIP-5	LC31	-	-	276	-	-
1983-126	2445696.66	1983 Dec 28 0348:05	Molniya 8K78M	2BL	78039 -642	Kosmos-1518	Oko	-	-	NIIP-53	LC16/2	-	-	39915	-	-
1984-002	2445711.01	1984 Jan 11 1220	Soyuz-U	-	78012 -787	Kosmos-1530	Zenit-6	-	-	NIIP-53	LC43/4	-	-	590	-	-
1984-004	2445713.11	1984 Jan 13 1440	Soyuz-U	-	78012 -806 *	Kosmos-1532	Kobal't	-	-	NIIP-53	LC41/1	-	-	363	-	-
1984-006	2445725.87	1984 Jan 26 0850	Soyuz-U2	-	76032? -791 (-003)	Kosmos-1533	Zenit-6	-	-	NIIP-5	LC31	-	-	568	-	-
1984-014	2445739.01	1984 Feb 8 1207:26	Soyuz-U	-	Yu15000-357	Soyuz T-10	Soyuz 7K-ST No. 15L	-	-	NIIP-5	LC31	-	-	342	-	-
1984-017	2445746.84	1984 Feb 16 0815	Soyuz-U	-	76032 -126	Kosmos-1537	Resurs-F1 17F41 No. 27	-	-	NIIP-53	LC41/1	-	-	501	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-018	2445751.78	1984 Feb 21 0646:05	Soyuz-U	-	Yu15000-367	Progress-19	Progress 7K-TG No. 120	-	-	NIIP-5	LC31	-	-	310	-	-
1984-020	2445759.08	1984 Feb 28 1359:59	Soyuz-U	-	78012 -789	Kosmos-1539	Kobal't	-	-	NIIP-53	LC16/2	-	-	405	-	-
1984-024	2445766.22	1984 Mar 6 1710:18	Molniya 8K78M	ML	76054 -649	Kosmos-1541	Oko	-	-	NIIP-53	LC16/2	-	-	39755	-	-
1984-025	2445766.83	1984 Mar 7 0800	Soyuz-U2	-	76032 -792 (-004)	Kosmos-1542	Zenit-6	-	-	NIIP-5	LC31	-	-	679	-	-
1984-026	2445770.21	1984 Mar 10 1700	Soyuz-U	-	Ts15000-309	Kosmos-1543	Efir No. 1	-	-	NIIP-53	LC41/1	-	-	402	-	-
1984-029	2445776.48	1984 Mar 16 2329:59	Molniya 8K78M	2BL	78039 -637	Molniya-1	Molniya-1 No. 51	-	-	NIIP-53	LC41/1	-	-	40716	-	-
1984-030	2445780.96	1984 Mar 21 1105	Soyuz-U-PVB	-	77024 -779	Kosmos-1545	Zenit-6	-	-	NIIP-53	LC43/4	-	-	486	-	-
1984-032	2445794.05	1984 Apr 3 1308:42	Soyuz-U	-	Sc15000-395	Soyuz T-11	Soyuz 7K-ST No. 17L	-	-	NIIP-5	LC31	-	-	509	-	-
1984-033	2445794.57	1984 Apr 4 0140:04	Molniya 8K78M	2BL	77049 -643	Kosmos-1547	Oko	-	-	NIIP-53	LC16/2	-	-	39749	-	-
1984-036	2445801.08	1984 Apr 10 1400	Soyuz-U	-	76032 -808	Kosmos-1548	Kobal't	-	-	NIIP-53	LC41/1	-	-	355	-	-
1984-038	2445805.84	1984 Apr 15 0812:53	Soyuz-U2	-	Yu15000-005	Progress-20	Progress 7K-TG No. 121	-	-	NIIP-5	LC31	-	-	276	-	-
1984-040	2445809.99	1984 Apr 19 1140	Soyuz-U	-	76032 -788	Kosmos-1549	Zenit-6	-	-	NIIP-53	LC16/2	-	-	813	-	-
1984-042	2445828.45	1984 May 7 2247:15	Soyuz-U	-	Sc15000-399	Progress-21	Progress 7K-TG No. 116	-	-	NIIP-5	LC31	-	-	349	-	-
1984-044	2445832.04	1984 May 11 1300	Soyuz-U	-	76032 -811	Kosmos-1551	Zenit-6	-	-	NIIP-53	LC41/1	-	-	403	-	-
1984-045	2445835.08	1984 May 14 1400	Soyuz-U	-	Yu15000-364	Kosmos-1552	Yantar'-4KS1	-	-	NIIP-5	LC31	-	-	355	-	-
1984-048	2445842.85	1984 May 22 0830	Soyuz-U	-	77046 -050	Kosmos-1557	Fram	-	-	NIIP-53	LC43/4	-	-	390	-	-
1984-050	2445845.98	1984 May 25 1130	Soyuz-U	-	76032 -810	Kosmos-1558	Kobal't	-	-	NIIP-53	LC16/2	-	-	343	-	-
1984-051	2445849.09	1984 May 28 1412:52	Soyuz-U	-	Sc15000-405	Progress-22	Progress 7K-TG No. 122	-	-	NIIP-5	LC31	-	-	356	-	-
1984-054	2445853.08	1984 Jun 1 1350	Soyuz-U	-	77046 -148	Kosmos-1568	Zenit-6	-	-	NIIP-53	LC43/4	-	-	661	-	-
1984-055	2445858.15	1984 Jun 6 1533:32	Molniya 8K78M	2BL	77024 -657	Kosmos-1569	Oko	-	-	NIIP-53	LC16/2	-	-	40028	-	-
1984-058	2445862.86	1984 Jun 11 0840	Soyuz-U	-	76032 -795	Kosmos-1571	Oblik	-	-	NIIP-5	LC1	-	-	639	-	-
1984-060	2445866.85	1984 Jun 15 0820	Soyuz-U	-	76032 -793	Kosmos-1572	Resurs-F1 17F41 No. 26	-	-	NIIP-53	LC41/1	-	-	465	-	-
1984-061	2445870.95	1984 Jun 19 1055	Soyuz-U	-	76032 -796	Kosmos-1573	Zenit-6	-	-	NIIP-53	LC16/2	-	-	405	-	-
1984-064	2445873.82	1984 Jun 22 0740	Soyuz-U	-	76032 -790	Kosmos-1575	Resurs-F1 17F41 No. 48	-	-	NIIP-53	LC41/1	-	-	470	-	-
1984-066	2445878.15	1984 Jun 26 1535	Soyuz-U	-	76032 -807	Kosmos-1576	Kobal't	-	-	NIIP-53	LC41/1	-	-	397	-	-
1984-070	2445881.12	1984 Jun 29 1500	Soyuz-U	-	77046 -306	Kosmos-1580	Oblik No. 793	-	-	NIIP-53	LC43/4	-	-	402	-	-
1984-071	2445885.40	1984 Jul 3 2130:42	Molniya 8K78M	2BL	78012 -659	Kosmos-1581	Oko	-	-	NIIP-53	LC43/4	-	-	39788	-	-
1984-073	2445899.24	1984 Jul 17 1740:54	Soyuz-U2	-	Yu15000-006	Soyuz T-12	Soyuz 7K-ST No. 18L	-	-	NIIP-5	LC31	-	-	373	-	-
1984-074	2445900.85	1984 Jul 19 0830	Soyuz-U	-	77046 -149	Kosmos-1582	Resurs-F1 17F41 No. 49	-	-	NIIP-53	LC43/4	-	-	448	-	-
1984-075	2445906.03	1984 Jul 24 1240	Soyuz-U	-	77046 -150	Kosmos-1583	Oblik	-	-	NIIP-53	LC16/2	-	-	607	-	-
1984-076	2445908.87	1984 Jul 27 0859:59	Soyuz-U	-	77046 -307	Kosmos-1584	Oblik (Priroda)	-	-	NIIP-53	LC41/1	-	-	505	-	-
1984-077	2445913.02	1984 Jul 31 1229:54	Soyuz-U	-	77046 -823	Kosmos-1585	Kobal't	-	-	NIIP-5	LC1	-	-	360	-	-
1984-079	2445914.86	1984 Aug 2 0838:16	Molniya 8K78M	2BL	76032 -667	Kosmos-1586	Oko	-	-	NIIP-53	LC16/2	-	-	39958	-	-
1984-082	2445919.08	1984 Aug 6 1400	Soyuz-U	-	76032 -794	Kosmos-1587	Oblik	-	-	NIIP-53	LC41/1	-	-	628	-	-
1984-085	2445922.50	1984 Aug 10 0003:58	Molniya 8K78M	ML	76032 -666 ?	Molniya-1	Molniya-1 No. 53	-	-	NIIP-53	LC41/1	-	-	40817	-	-
1984-086	2445926.77	1984 Aug 14 0628:15	Soyuz-U	-	Sc15000-411	Progress-23	Progress 7K-TG No. 124	-	-	NIIP-5	LC1	-	-	380	-	-
1984-087	2445928.91	1984 Aug 16 0950	Soyuz-U	-	77046 -309	Kosmos-1590	Resurs-F1 17F41 No. 50	-	-	NIIP-53	LC41/1	-	-	512	-	-
1984-089	2445936.85	1984 Aug 24 0826:59	Molniya 8K78M	ML	78012 -661	Molniya-1	Molniya-1 No. 54	-	-	NIIP-53	LC43/4	-	-	41046	-	-
1984-092	2445942.92	1984 Aug 30 1010	Soyuz-U	-	77046 -151	Kosmos-1591	Resurs-F1 17F41 No. 51	-	-	NIIP-53	LC43/4	-	-	472	-	-
1984-094	2445947.93	1984 Sep 4 1020	Soyuz-U	-	77046 -308	Kosmos-1592	Oblik	-	-	NIIP-53	LC16/2	-	-	515	-	-
1984-096	2445951.30	1984 Sep 7 1912:58	Molniya 8K78M	2BL	76054 -651	Kosmos-1596	Oko	-	-	NIIP-53	LC16/2	-	-	39735	-	-
1984-099	2445956.93	1984 Sep 13 1025	Soyuz-U	-	77046 -051	Kosmos-1597	Fram	-	-	NIIP-53	LC43/4	-	-	399	-	-
1984-102	2445969.10	1984 Sep 25 1430	Soyuz-U	-	77046 -902	Kosmos-1599	Kobal't	-	-	NIIP-53	LC43/4	-	-	354	-	-
1984-103	2445970.84	1984 Sep 27 0810	Soyuz-U	-	77046 -320 (310?)	Kosmos-1600	Oblik	-	-	NIIP-5	LC1	-	-	635	-	-
1984-107	2445978.33	1984 Oct 4 1949:13	Molniya 8K78M	2BL	78012 -662	Kosmos-1604	Oko	-	-	NIIP-53	LC16/2	-	-	39736	-	-
1984-116	2446018.82	1984 Nov 14 0740	Soyuz-U	-	Yu15000-352	Kosmos-1608	Siluet No. 4	-	-	NIIP-5	LC1	-	-	281	-	-
1984-117	2446019.01	1984 Nov 14 1220	Soyuz-U	-	77046 -311	Kosmos-1609	Oblik	-	-	NIIP-53	LC43/4	-	-	613	-	-
1984-119	2446025.94	1984 Nov 21 1030	Soyuz-U	-	78056 -825	Kosmos-1611	Kobal't	-	-	NIIP-5	LC1	-	-	395	-	-
1984-121	2446034.08	1984 Nov 29 1400	Soyuz-U-PVB	-	78024 -780	Kosmos-1613	Oblik	-	-	NIIP-53	LC43/4	-	-	596	-	-
1984-124	2446049.36	1984 Dec 14 2040:59	Molniya 8K78M	ML	76032 -672	Molniya-1	Molniya-1 No. 55	-	-	NIIP-53	LC41/1	-	-	40848	-	-
1985-002	2446074.95	1985 Jan 9 1045	Soyuz-U	-	77048 -819	Kosmos-1616	Kobal't	-	-	NIIP-5	LC31	-	-	366	-	-
1985-004	2446081.77	1985 Jan 16 0622:30	Molniya 8K78M	ML	76032 -665	Molniya-3	Molniya-3 No. 36	-	-	NIIP-53	LC43/4	-	-	40801	-	-
1985-005	2446081.85	1985 Jan 16 0819	Soyuz-U	-	78056 -315	Kosmos-1623	Oblik	-	-	NIIP-5	LC1	-	-	624	-	-
1985-012	2446102.96	1985 Feb 6 1100	Soyuz-U	-	77046 -313	Kosmos-1628	Oblik	-	-	NIIP-53	LC16/2	-	-	628	-	-
1985-017	2446123.97	1985 Feb 27 1110	Soyuz-U	-	78056 -626	Kosmos-1630	Kobal't	-	-	NIIP-5	LC31	-	-	355	-	-
1985-019	2446125.94	1985 Mar 1 1040	Soyuz-U	-	76032 -797	Kosmos-1632	Oblik	-	-	NIIP-53	LC41/1	-	-	433	-	-
1985-026	2446149.92	1985 Mar 25 1000	Soyuz-U	-	78056 -204	Kosmos-1643	Terilen	-	-	NIIP-5	LC1	-	-	316	-	-
1985-027	2446158.86	1985 Apr 3 0840	Soyuz-U	-	77046 -312	Kosmos-1644	Oblik	-	-	NIIP-5	LC31	-	-	736	-	-
1985-029	2446172.22	1985 Apr 16 1715	Soyuz-U	-	Sh15000-128	Kosmos-1645	Foton No. 1L	-	-	NIIP-53	LC41/1	-	-	608	-	-
1985-031	2446175.08	1985 Apr 19 1400	Soyuz-U	-	76032 -901	Kosmos-1647	Kobal't	-	-	NIIP-53	LC41/1	-	-	401	-	-
1985-032	2446180.90	1985 Apr 25 0930	Soyuz-U	-	77046 -314	Kosmos-1648	Oblik	-	-	NIIP-53	LC43/4	-	-	439	-	-
1985-033	2446181.74	1985 Apr 26 0548	Molniya 8K78M	SOL	B 15000-252	Prognoz-10-IK	SO-M No. 510	-	-	NIIP-5	LC31	-	-	150000	-	-
1985-036	2446201.03	1985 May 15 1240	Soyuz-U	-	78056 -316	Kosmos-1649	Oblik	-	-	NIIP-53	LC43/4	-	-	602	-	-
1985-038	2446207.86	1985 May 22 0835	Soyuz-U	-	78056 -152	Kosmos-1653	Resurs-F1 17F41 No. 52	-	-	NIIP-53	LC41/1	-	-	461	-	-
1985-039	2446209.03	1985 May 23 1240	Soyuz-U	-	78056 -827	Kosmos-1654	Kobal't	-	-	NIIP-5	LC31	-	-	350	-	-
1985-040	2446214.82	1985 May 29 0740:44	Molniya 8K78M	ML	78056 -676	Molniya-3	Molniya-3 No. 39	-	-	NIIP-53	LC43/4	-	-	40828	-	-
1985-043	2446222.78	1985 Jun 6 0639:52	Soyuz-U2	-	B 15000-008	Soyuz T-13	Soyuz 7K-ST No. 19L	-	-	NIIP-5	LC1	-	-	361	-	-
1985-044	2446223.82	1985 Jun 7 0745	Soyuz-U-PVB	-	78012 -805	Kosmos-1657	Resurs-F1 17F41 No. 54	-	-	NIIP-53	LC43/4	-	-	461	-	-
1985-045	2446228.10	1985 Jun 11 1426:57	Molniya 8K78M	2BL	76032 -669	Kosmos-1658	Oko	-	-	NIIP-53	LC41/1	-	-	40092	-	-
1985-046	2446230.01	1985 Jun 13 1220	Soyuz-U	-	78056 -317	Kosmos-1659	Oblik	-	-	NIIP-53	LC16/2	-	-	653	-	-
1985-049	2446234.53	1985 Jun 18 0040:26	Molniya 8K78M	2BL	76032 -668	Kosmos-1661	Oko	-	-	NIIP-53	LC16/2	-	-	40266	-	-
1985-051	2446237.53	1985 Jun 21 0039:41	Soyuz-U	-	Sc15000-417	Progress-24	Progress 7K-TG No. 125	-	-	NIIP-5	LC1	-	-	409	-	-
1985-052	2446237.82	1985 Jun 21 0745	Soyuz-U	-	76021 -155	Kosmos-1663	Resurs-F1 17F41 No. 55	-	-	NIIP-53	LC41/1	-	-	520	-	-
1985-054	2446243.02	1985 Jun 26 1235	Soyuz-U	-	78056 -319	Kosmos-1664	Oblik	-	-	NIIP-53	LC43/4	-	-	413	-	-
1985-057	2446250.01	1985 Jul 3 1210	Soyuz-U	-	78056 -320	Kosmos-1665	Oblik	-	-	NIIP-53	LC16/2	-	-	464	-	-
1985-059	2446256.64	1985 Jul 10 0315	Soyuz-U	-	B 15000-453	Kosmos-1667	Bion No. 7	-	-	NIIP-53	LC41/1	-	-	392	-	-
1985-060	2446261.77	1985 Jul 15 0630	Soyuz-U	-	76021 -325	Kosmos-1668	Oblik	-	-	NIIP-5	LC31	-	-	545	-	-
1985-061	2446263.55	1985 Jul 17 0105:00	Molniya 8K78M	ML	77024 -658	Molniya-3	Molniya-3 No. 37	-	-	NIIP-53	LC43/4	-	-	41000	-	-
1985-062	2446266.05	1985 Jul 19 1305:08	Soyuz-U	-	B 15000-446	Kosmos-1669	Progress 7K-TG No. 126	-	-	NIIP-5	LC1	-	-	358	-	-
1985-065	2446279.99	1985 Aug 2 1140	Soyuz-U	-	78056 -321	Kosmos-1671	Oblik	-	-	NIIP-53	LC16/2	-	-	552	-	-
1985-067	2446284.91	1985 Aug 7 0950	Soyuz-U	-	77011 -157	Kosmos-1672	Resurs-F1 17F41 No. 57	-	-	NIIP-53	LC43/4	-	-	476	-	-
1985-068	2446285.93	1985 Aug 8 1019	Soyuz-U	-	78056 -205	Kosmos-1673	Siluet No. 5	-	-	NIIP-5	LC1	-	-	285	-	-
1985-071	2446290.13	1985 Aug 12 1509:03	Molniya 8K78M	2BL	76032 -664	Kosmos-1675	Oko	-	-	NIIP-53	LC16/2	-	-	40018	-	-
1985-072	2446294.13	1985 Aug 16 1510	Soyuz-U	-	77046 -824	Kosmos-1676	Kobal't	-	-	NIIP-53	LC41/1	-	-	369	-	-
1985-074	2446300.31	1985 Aug 22 1928:00	Molniya 8K78M	ML	78056 -679	Molniya-1	Molniya-1 No. 61	-	-	NIIP-53	LC41/1	-	-	40809	-	-
1985-077	2446306.93	1985 Aug 29 1015	Soyuz-U	-	76021 -153	Kosmos-1678	Resurs-F1 17F41 No. 53	-	-	NIIP-53	LC41/1	-	-	520	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-078	2446306.98	1985 Aug 29 1133	Soyuz-U	-	78056 -828	Kosmos-1679	Kobal't	-	-	NIIP-5	LC31	-	-	357	-	-
1985-080	2446314.95	1985 Sep 6 1045	Soyuz-U	-	77011 -052	Kosmos-1681	Fram	-	-	NIIP-53	LC41/1	-	-	412	-	-
1985-081	2446326.03	1985 Sep 17 1238:52	Soyuz-U2	-	Sc15000-007	Soyuz T-14	Soyuz 7K-ST No. 20L	-	-	NIIP-5	LC1	-	-	358	-	-
1985-083	2446327.92	1985 Sep 19 1010	Soyuz-U	-	76021 -100	Kosmos-1683	Oblik	-	-	NIIP-53	LC41/1	-	-	642	-	-
1985-084	2446332.55	1985 Sep 24 0118:10	Molniya 8K78M	2BL	77046 -674	Kosmos-1684	Oko	-	-	NIIP-53	LC43/4	-	-	39763	-	-
1985-085	2446334.97	1985 Sep 26 1115	Soyuz-U	-	78056 -322	Kosmos-1685	Oblik	-	-	NIIP-53	LC16/2	-	-	587	-	-
1985-088	2446339.31	1985 Sep 30 1923:20	Molniya 8K78M	2BL	76032 -670	Kosmos-1687	Oko	-	-	NIIP-53	LC16/2	-	-	39785	-	-
1985-090	2446341.74	1985 Oct 3 0548	Vostok 8A92M	-	76053 -344	Kosmos-1689	Resurs-O1 No. 1L	-	-	NIIP-5	LC31	-	-	671	-	-
1985-091	2446341.81	1985 Oct 3 0733:00	Molniya 8K78M	ML	76021 -685	Molniya-3	Molniya-3 No. 38	-	-	NIIP-53	LC43/4	-	-	40859	-	-
1985-095	2446354.89	1985 Oct 16 0925	Soyuz-U	-	76021 -327	Kosmos-1696	Oblik	-	-	NIIP-5	LC31	-	-	432	-	-
1985-098	2446361.35	1985 Oct 22 2024:07	Molniya 8K78M	2BL	77046 -675	Kosmos-1698	Oko	-	-	NIIP-53	LC43/4	-	-	39738	-	-
1985-099	2446361.53	1985 Oct 23 0042:07	Molniya 8K78M	ML	78012 -663	Molniya-1	Molniya-1 11F658 No. 73	-	-	NIIP-5	LC1	-	-	40133	-	-
1985-101	2446364.11	1985 Oct 25 1440	Soyuz-U	-	77046 -913	Kosmos-1699	Kobal't	-	-	NIIP-53	LC16/2	-	-	364	-	-
1985-103	2446367.23	1985 Oct 28 1724:58	Molniya 8K78M	ML	76021 -686	Molniya-1	Molniya-1 No. 56	-	-	NIIP-53	LC43/4	-	-	40034	-	-
1985-105	2446378.85	1985 Nov 9 0825:27	Molniya 8K78M	2BL	78056 -681 / 668?	Kosmos-1701	Oko	-	-	NIIP-53	LC41/1	-	-	40115	-	-
1985-106	2446383.02	1985 Nov 13 1225	Soyuz-U	-	77011 -331	Kosmos-1702	Oblik	-	-	NIIP-53	LC16/2	-	-	621	-	-
1985-111	2446403.01	1985 Dec 3 1215	Soyuz-U	-	76021 -154	Kosmos-1705	Oblik	-	-	NIIP-53	LC16/2	-	-	776	-	-
1985-112	2446411.11	1985 Dec 11 1440	Soyuz-U	-	76032 -812	Kosmos-1706	Kobal't	-	-	NIIP-53	LC16/2	-	-	350	-	-
1985-115	2446412.82	1985 Dec 13 0745	Soyuz-U	-	76021 -156	Kosmos-1708	Resurs-F1 17F41 No. 56	-	-	NIIP-53	LC43/4	-	-	499	-	-
1985-117	2446424.29	1985 Dec 24 1856:00	Molniya 8K78M	ML	78056 -680	Molniya-3	Molniya-3 No. 40	-	-	NIIP-53	LC43/4	-	-	40764	-	-
1985-120	2446427.21	1985 Dec 27 1706	Soyuz-U	-	B 15000-468	Kosmos-1713	Efir No. 2	-	-	NIIP-53	LC41/1	-	-	575	-	-
1986-001	2446438.98	1986 Jan 8 1125	Soyuz-U	-	78056 -323	Kosmos-1715	Oblik	-	-	NIIP-53	LC43/4	-	-	441	-	-
1986-004	2446446.10	1986 Jan 15 1420	Soyuz-U	-	76021 -837	Kosmos-1724	Kobal't	-	-	NIIP-53	LC41/1	-	-	362	-	-
1986-009	2446458.86	1986 Jan 28 0835	Soyuz-U	-	76021 -330	Kosmos-1728	Oblik	-	-	NIIP-5	LC1	-	-	427	-	-
1986-011	2446463.26	1986 Feb 1 1811:56	Molniya 8K78M	2BL	78056 -677	Kosmos-1729	Oko	-	-	NIIP-53	LC16/2	-	-	39748	-	-
1986-012	2446465.97	1986 Feb 4 1115	Soyuz-U	-	76021 -324	Kosmos-1730	Oblik	-	-	NIIP-53	LC41/1	-	-	471	-	-
1986-013	2446468.86	1986 Feb 7 0845	Soyuz-U	-	77011 -208	Kosmos-1731	Terilen	-	-	NIIP-5	LC1	-	-	312	-	-
1986-020	2446488.07	1986 Feb 26 1339:59	Soyuz-U	-	77011 -838	Kosmos-1734	Kobal't	-	-	NIIP-53	LC43/4	-	-	385	-	-
1986-022	2446503.02	1986 Mar 13 1233:09	Soyuz-U2	-	B 15000-012	Soyuz T-15	Soyuz 7K-ST No. 21L	-	-	NIIP-5	LC1	-	-	366	-	-
1986-023	2446508.92	1986 Mar 19 1008:25	Soyuz-U2	-	B 15000-010	Progress-25	Progress 7K-TG No. 134	-	-	NIIP-5	LC1	-	-	360	-	-
1986-F02	2446515.94	1986 Mar 26 1030	Soyuz-U	-	76021 -328	-	Oblik??	-	-	NIIP-5	LC31	-	-	50?	-	-
1986-028	2446529.83	1986 Apr 9 0800	Soyuz-U	-	76021 -836	Kosmos-1739	Kobal't	-	-	NIIP-5	LC31	-	-	353	-	-
1986-029	2446535.99	1986 Apr 15 1140:00	Soyuz-U	-	76021 -332	Kosmos-1740	Oblik	-	-	NIIP-53	LC16/2	-	-	732	-	-
1986-031	2446539.33	1986 Apr 18 1950:02	Molniya 8K78M	ML	77046 -673	Molniya-3	Molniya-3 No. 43	-	-	NIIP-53	LC41/1	-	-	40849	-	-
1986-032	2446544.32	1986 Apr 23 1940:05	Soyuz-U2	-	B 15000-009	Progress-26	Progress 7K-TG No. 136	-	-	NIIP-5	LC1	-	-	359	-	-
1986-033	2446565.03	1986 May 14 1240:00	Soyuz-U	-	77011 -336	Kosmos-1742	Oblik	-	-	NIIP-53	LC16/2	-	-	690	-	-
1986-035	2446571.85	1986 May 21 0821:51	Soyuz-U2	-	B 15000-013	Soyuz TM	Soyuz 7K-STM No. 51	-	-	NIIP-5	LC1	-	-	376	-	-
1986-036	2446572.19	1986 May 21 1630:00	Soyuz-U	-	I 15000-498	Kosmos-1744	Foton No. 2L	-	-	NIIP-53	LC41/1	-	-	452	-	-
1986-040	2446578.83	1986 May 28 0750:01	Soyuz-U	-	76048 -158	Kosmos-1746	Resurs-F1 17F41 No. 58	-	-	NIIP-53	LC43/4	-	-	483	-	-
1986-041	2446579.89	1986 May 29 0920	Soyuz-U	-	78056 -915	Kosmos-1747	Oblik	-	-	NIIP-5	LC31	-	-	399	-	-
1986-043	2446588.03	1986 Jun 6 1240	Soyuz-U	-	77011 -335	Kosmos-1756	Kobal't	-	-	NIIP-5	LC31	-	-	399	-	-
1986-045	2446592.82	1986 Jun 11 0744:59	Soyuz-U	-	76021 -326	Kosmos-1757	Oblik (Priroda)	-	-	NIIP-53	LC43/4	-	-	942	-	-
1986-048	2446600.94	1986 Jun 19 1030	Soyuz-U	-	76048 -348	Kosmos-1760	Oblik	-	-	NIIP-5	LC1	-	-	629	-	-
1986-049	2446601.38	1986 Jun 19 2109:00	Molniya 8K78M	ML	76054 -653	Molniya-3	Molniya-3 No. 44	-	-	NIIP-53	LC41/1	-	-	40893	-	-
1986-050	2446616.55	1986 Jul 5 0116:46	Molniya 8K78M	2BL	76021 -683	Kosmos-1761	Oko	-	-	NIIP-53	LC43/4	-	-	39739	-	-
1986-051	2446621.83	1986 Jul 10 0800:00	Soyuz-U	-	76048 -159	Kosmos-1762	Resurs-F1 14F40 No. 59	-	-	NIIP-53	LC16/2	-	-	475	-	-
1986-053	2446629.02	1986 Jul 17 1230	Soyuz-U	-	77011 -916	Kosmos-1764	Kobal't	-	-	NIIP-5	LC31	-	-	351	-	-
1986-054	2446636.02	1986 Jul 24 1230:01	Soyuz-U	-	77011 -337	Kosmos-1765	Oblik	-	-	NIIP-53	LC16/2	-	-	631	-	-
1986-057	2446642.13	1986 Jul 30 1506:00	Molniya 8K78M	ML	76021 -688	Molniya-1	Molniya-1 No. 59	-	-	NIIP-53	LC43/4	-	-	40844	-	-
1986-058	2446644.89	1986 Aug 2 0920:00	Soyuz-U	-	78028 -160	Kosmos-1768	Resurs-F1 14F40 No. 60	-	-	NIIP-53	LC16/2	-	-	501	-	-
1986-060	2446649.06	1986 Aug 6 1330	Soyuz-U	-	78056 -445	Kosmos-1770	Terilen	-	-	NIIP-5	LC1	-	-	378	-	-
1986-063	2446663.96	1986 Aug 21 1105:00	Soyuz-U	-	76021 -329	Kosmos-1772	Oblik	-	-	NIIP-53	LC43/4	-	-	584	-	-
1986-064	2446669.99	1986 Aug 27 1140	Soyuz-U	-	77011 -917	Kosmos-1773	Kobal't	-	-	NIIP-5	LC31	-	-	374	-	-
1986-065	2446670.84	1986 Aug 28 0802:43	Molniya 8K78M	2BL	76021 -687	Kosmos-1774	Oko	-	-	NIIP-53	LC16/2	-	-	40068	-	-
1986-066	2446676.83	1986 Sep 3 0759:59	Soyuz-U	-	76048 -351	Kosmos-1775	Oblik	-	-	NIIP-5	LC31	-	-	604	-	-
1986-068	2446678.88	1986 Sep 5 0912:59	Molniya 8K78M	ML	76048 -505	Molniya-1	Molniya-1 No. 57	-	-	NIIP-53	LC43/4	-	-	40727	-	-
1986-072	2446690.83	1986 Sep 17 0759	Soyuz-U	-	76048 -349	Kosmos-1781	Oblik	-	-	NIIP-5	LC31	-	-	666	-	-
1986-075	2446707.05	1986 Oct 3 1305:41	Molniya 8K78M	2BL	77011 -694	Kosmos-1783	Oko	-	-	NIIP-53	LC41/1	-	-	20395	-	-
1986-077	2446709.82	1986 Oct 6 0740	Soyuz-U	-	77011 -447	Kosmos-1784	Siluet No. 6	-	-	NIIP-5	LC1	-	-	282	-	-
1986-078	2446718.90	1986 Oct 15 0929:18	Molniya 8K78M	2BL	76021 -684	Kosmos-1785	Oko	-	-	NIIP-53	LC41/1	-	-	40116	-	-
1986-079	2446723.87	1986 Oct 20 0849:00	Molniya 8K78M	ML	77049 -645	Molniya-3	Molniya-3 No. 41	-	-	NIIP-53	LC43/4	-	-	40001	-	-
1986-081	2446725.88	1986 Oct 22 0900	Soyuz-U	-	76048 -353	Kosmos-1787	Oblik	-	-	NIIP-5	LC1	-	-	469	-	-
1986-084	2446734.83	1986 Oct 31 0800:00	Soyuz-U	-	78028 -161	Kosmos-1789	Resurs-F1 14F40 No. 61	-	-	NIIP-53	LC16/2	-	-	564	-	-
1986-085	2446738.99	1986 Nov 4 1150:00	Soyuz-U	-	76048 -352	Kosmos-1790	Oblik	-	-	NIIP-53	LC16/2	-	-	457	-	-
1986-087	2446747.96	1986 Nov 13 1059:59	Soyuz-U	-	77011 -333	Kosmos-1792	Kobal't	-	-	NIIP-5	LC31	-	-	393	-	-
1986-089	2446750.40	1986 Nov 15 2135:00	Molniya 8K78M	ML	76048 -508	Molniya-1	Molniya-1 No. 60	-	-	NIIP-53	LC41/1	-	-	40800	-	-
1986-091	2446755.01	1986 Nov 20 1209:20	Molniya 8K78M	2BL	77011 -689	Kosmos-1793	Oko	-	-	NIIP-53	LC16/2	-	-	40131	-	-
1986-095	2446768.92	1986 Dec 4 1010	Soyuz-U	-	76048 -851	Kosmos-1804	Oblik	-	-	NIIP-5	LC1	-	-	600	-	-
1986-098	2446777.27	1986 Dec 12 1835:36	Molniya 8K78M	2BL	76048 -509	Kosmos-1806	Oko	-	-	NIIP-53	LC43/4	-	-	39739	-	-
1986-099	2446781.08	1986 Dec 16 1400	Soyuz-U	-	78056 -318	Kosmos-1807	Kobal't	-	-	NIIP-53	LC41/1	-	-	385	-	-
1986-102	2446790.96	1986 Dec 26 1100	Soyuz-U	-	78056 -206	Kosmos-1810	Terilen	-	-	NIIP-5	LC1	-	-	331	-	-
1986-103	2446791.14	1986 Dec 26 1525:59	Molniya 8K78M	ML	78028 -512	Molniya-1	Molniya-1 No. 62	-	-	NIIP-53	LC43/3	-	-	40108	-	-
1987-002	2446805.03	1987 Jan 9 1238:04	Soyuz-U	-	78028 -358	Kosmos-1811	Kobal't	-	-	NIIP-5	LC31	-	-	349	-	-
1987-004	2446810.97	1987 Jan 15 1120:00	Soyuz-U	-	77011 -334	Kosmos-1813	Oblik	-	-	NIIP-53	LC43/3	-	-	559	-	-
1987-005	2446811.75	1987 Jan 16 0606:23	Soyuz-U2	-	B 15000-011	Progress-27	Progress 7K-TG No. 135	-	-	NIIP-5	LC1	-	-	369	-	-
1987-008	2446818.17	1987 Jan 22 1606:00	Molniya 8K78M	ML	77046 -671	Molniya-3	Molniya-3 No. 42	-	-	NIIP-53	LC41/1	-	-	40809	-	-
1987-013	2446832.40	1987 Feb 5 2138:16	Soyuz-U2	-	I 15000-014	Soyuz TM-2	Soyuz 7K-STM No. 52	-	-	NIIP-5	LC1	-	-	369	-	-
1987-014	2446833.94	1987 Feb 7 1030:00	Soyuz-U	-	76048 -350	Kosmos-1819	Oblik	-	-	NIIP-53	LC43/4	-	-	472	-	-
1987-019	2446845.93	1987 Feb 19 1015:00	Soyuz-U	-	78028 -357	Kosmos-1822	Oblik	-	-	NIIP-53	LC16/2	-	-	461	-	-
1987-021	2446853.06	1987 Feb 26 1330:00	Soyuz-U	-	78056 -914	Kosmos-1824	Kobal't	-	-	NIIP-53	LC41/1	-	-	352	-	-
1987-023	2446857.97	1987 Mar 3 1114:05	Soyuz-U2	-	I 15000-016	Progress-28	Progress 7K-TG No. 137	-	-	NIIP-5	LC1	-	-	371	-	-
1987-025	2446865.93	1987 Mar 11 1025:00	Soyuz-U	-	78028 -359	Kosmos-1826	Oblik	-	-	NIIP-53	LC16/2	-	-	577	-	-
1987-032	2446894.99	1987 Apr 9 1144	Soyuz-U	-	77011 -918	Kosmos-1835	Kobal't	-	-	NIIP-5	LC1	-	-	353	-	-
1987-033	2446901.76	1987 Apr 16 0618	Soyuz-U	-	77011 -209	Kosmos-1836	Terilen	-	-	NIIP-5	LC1	-	-	446	-	-
1987-034	2446907.13	1987 Apr 21 1514:17	Soyuz-U2	-	I 15000-015	Progress-29	Progress 7K-TG No. 127	-	-	NIIP-5	LC1	-	-	365	-	-
1987-035	2446907.88	1987 Apr 22 0910:01	Soyuz-U	-	78028 -356	Kosmos-1837	Oblik	-	-	NIIP-53	LC43/3	-	-	450	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-037	2446910.21	1987 Apr 24 1659:59	Soyuz-U	-	I 15000-510	Kosmos-1841	Foton No. 3L	-	-	NIIP-53	LC41/1	-	-	461	-	-
1987-039	2446920.89	1987 May 5 0915	Soyuz-U	-	78028 -355	Kosmos-1843	Oblik	-	-	NIIP-5	LC31	-	-	574	-	-
1987-042	2446928.75	1987 May 13 0600	Soyuz-U	-	78028 -361	Kosmos-1845	Oblik	-	-	NIIP-5	LC31	-	-	595	-	-
1987-044	2446934.67	1987 May 19 0402:10	Soyuz-U2	-	I 15000-018	Progress-30	Progress 7K-TG No. 128	-	-	NIIP-5	LC1	-	-	368	-	-
1987-045	2446936.82	1987 May 21 0744:59	Soyuz-U	-	77015 -104	Kosmos-1846	Resurs-F1 14F40 No. 104	-	-	NIIP-53	LC43/4	-	-	685	-	-
1987-046	2446942.07	1987 May 26 1339:59	Soyuz-U	-	76048 -929	Kosmos-1847	Kobal't	-	-	NIIP-53	LC16/2	-	-	348	-	-
1987-047	2446944.03	1987 May 28 1245:00	Soyuz-U	-	77015 -364	Kosmos-1848	Oblik	-	-	NIIP-53	LC43/4	-	-	576	-	-
1987-048	2446951.28	1987 Jun 4 1850:23	Molniya 8K78M	2BL	78028 -511	Kosmos-1849	Oko	-	-	NIIP-53	LC16/2	-	-	40006	-	-
1987-050	2446958.82	1987 Jun 12 0740:28	Molniya 8K78M	2BL	76048 -507	Kosmos-1851	Oko	-	-	NIIP-53	LC43/4	-	-	39742	-	-
1987-F04	2446964.81	1987 Jun 18 0724:59	Soyuz-U	-	77015 -105	-	Resurs-F1 14F40 No. 105	-	-	NIIP-53	LC43/3	-	-	0	-	-
1987-056	2446981.02	1987 Jul 4 1225:00	Soyuz-U	-	76048 -354	Kosmos-1863	Oblik	-	-	NIIP-53	LC41/1	-	-	582	-	-
1987-058	2446984.96	1987 Jul 8 1059	Soyuz-U	-	76021 -446	Kosmos-1865	Siluet No. 7	-	-	NIIP-5	LC1	-	-	307	-	-
1987-059	2446986.17	1987 Jul 9 1610:00	Soyuz-U	-	78028 -931	Kosmos-1866	Kobal't	-	-	NIIP-53	LC16/2	-	-	778	-	-
1987-063	2446998.58	1987 Jul 22 0159:17	Soyuz-U2	-	I 15000-019	Soyuz TM-3	Soyuz 7K-STM No. 53	-	-	NIIP-5	LC1	-	-	364	-	-
1987-066	2447011.36	1987 Aug 3 2044:11	Soyuz-U2	-	I 15000-017	Progress-31	Progress 7K-TG No. 138	-	-	NIIP-5	LC1	-	-	360	-	-
1987-069	2447026.79	1987 Aug 19 0659:59	Soyuz-U	-	77011 -839	Kosmos-1872	Oblik	-	-	NIIP-53	LC43/4	-	-	388	-	-
1987-072	2447041.93	1987 Sep 3 1024:59	Soyuz-U	-	76021 -207	Kosmos-1874	Oblik	-	-	NIIP-53	LC43/4	-	-	446	-	-
1987-076	2447049.59	1987 Sep 11 0206:00	Soyuz-U	-	78028 -852	Kosmos-1881	Terilen	-	-	NIIP-5	LC1?	-	-	296	-	-
1987-077	2447053.94	1987 Sep 15 1030:00	Soyuz-U	-	76048 -210	Kosmos-1882	Resurs-F1 14F40 No. 107	-	-	NIIP-53	LC43/4	-	-	435	-	-
1987-081	2447056.12	1987 Sep 17 1459:59	Soyuz-U	-	78028 -853	Kosmos-1886	Kobal't	-	-	NIIP-53	LC41/1	-	-	384	-	-
1987-082	2447062.49	1987 Sep 23 2343:54	Soyuz-U2	-	L 15000-021	Progress-32	Progress 7K-TG No. 139	-	-	NIIP-5	LC1	-	-	355	-	-
1987-083	2447068.03	1987 Sep 29 1249:59	Soyuz-U	-	L 15000-543	Kosmos-1887	Bion No. 8	-	-	NIIP-53	LC41/1	-	-	481	-	-
1987-085	2447077.85	1987 Oct 9 0830	Soyuz-U	-	77015 -368	Kosmos-1889	Oblik	-	-	NIIP-5	LC1	-	-	610	-	-
1987-089	2447091.10	1987 Oct 22 1424:57	Soyuz-U	-	76035 -945	Kosmos-1893	Kobal't	-	-	NIIP-53	LC16/2	-	-	388	-	-
1987-092	2447110.88	1987 Nov 11 0904	Soyuz-U	-	78028 -211	Kosmos-1895	Oblik	-	-	NIIP-5	LC31	-	-	404	-	-
1987-093	2447113.90	1987 Nov 14 0929	Soyuz-U	-	77015 -459	Kosmos-1896	Kometa No. 8	-	-	NIIP-5	LC1	-	-	311	-	-
1987-094	2447120.49	1987 Nov 20 2347:12	Soyuz-U2	-	L 15000-022	Progress-33	Progress 7K-TG No. 140	-	-	NIIP-5	LC1	-	-	360	-	-
1987-099	2447136.87	1987 Dec 7 0850:00	Soyuz-U	-	76035 -370	Kosmos-1899	Oblik	-	-	NIIP-5	LC31	-	-	414	-	-
1987-102	2447143.98	1987 Dec 14 1129:59	Soyuz-U	-	77015 -943	Kosmos-1901	Kobal't	-	-	NIIP-5	LC31	-	-	391	-	-
1987-104	2447150.97	1987 Dec 21 1118:03	Soyuz-U2	-	I 15000-020	Soyuz TM-4	Soyuz 7K-STM No. 54	-	-	NIIP-5	LC1	-	-	361	-	-
1987-105	2447151.44	1987 Dec 21 2235:42	Molniya 8K78M	2BL	78028 -514	Kosmos-1903	Oko	-	-	NIIP-53	LC41/1	-	-	39759	-	-
1987-107	2447154.86	1987 Dec 25 0844:59	Soyuz-U	-	77015 -369	Kosmos-1905	Oblik	-	-	NIIP-5	LC31	-	-	482	-	-
1987-108	2447155.98	1987 Dec 26 1130:01	Soyuz-U	-	L 15000-547	Kosmos-1906	Resurs-F2 17F42 No. 1	-	-	NIIP-53	LC16/2	-	-	432	-	-
1987-110	2447158.99	1987 Dec 29 1140:00	Soyuz-U	-	78028 -362	Kosmos-1907	Oblik	-	-	NIIP-53	LC43/4	-	-	636	-	-
1988-003	2447181.45	1988 Jan 20 2251:54	Soyuz-U2	-	L 15000-025	Progress-34	Progress 7K-TG No. 142	-	-	NIIP-5	LC1	-	-	356	-	-
1988-004	2447186.97	1988 Jan 26 1120:00	Soyuz-U	-	77015 -363	Kosmos-1915	Oblik	-	-	NIIP-53	LC41/1	-	-	515	-	-
1988-007	2447195.01	1988 Feb 3 1214:56	Soyuz-U	-	78028 -932	Kosmos-1916	Kobal't	-	-	NIIP-5	LC31	-	-	361	-	-
1988-010	2447209.91	1988 Feb 18 0949:59	Soyuz-U	-	76035 -107	Kosmos-1920	Resurs-F1 14F40 No. 106	-	-	NIIP-53	LC16/2	-	-	493	-	-
1988-011	2447210.83	1988 Feb 19 0800	Soyuz-U	-	76035 -371	Kosmos-1921	Oblik	-	-	NIIP-5	LC1	-	-	650	-	-
1988-013	2447217.90	1988 Feb 26 0931:12	Molniya 8K78M	2BL	77015 -528	Kosmos-1922	Oko	-	-	NIIP-53	LC41/1	-	-	39744	-	-
1988-015	2447230.94	1988 Mar 10 1030:00	Soyuz-U	-	78028 -360	Kosmos-1923	Oblik	-	-	NIIP-53	LC43/4	-	-	394	-	-
1988-017	2447231.78	1988 Mar 11 0638:07	Molniya 8K78M	ML	78056 -678	Molniya-1	Molniya-1 No. 65	-	-	NIIP-5	LC1	-	-	40018	-	-
1988-021	2447237.78	1988 Mar 17 0643:00	Vostok 8A92M	-	L 15000-79	IRS-1	IRS-1A	-	-	NIIP-5	LC31	-	-	936	-	-
1988-022	2447238.37	1988 Mar 17 2055:59	Molniya 8K78M	ML	78028 -513	Molniya-1	Molniya-1 No. 64	-	-	NIIP-53	LC43/4	-	-	40761	-	-
1988-024	2447244.38	1988 Mar 23 2105:12	Soyuz-U2	-	L 15000-026	Progress-35	Progress 7K-TG No. 143	-	-	NIIP-5	LC1	-	-	362	-	-
1988-025	2447245.09	1988 Mar 24 1410:00	Soyuz-U	-	76048 -850	Kosmos-1935	Kobal't	-	-	NIIP-53	LC16/2	-	-	346	-	-
1988-027	2447251.00	1988 Mar 30 1200:00	Soyuz-U	-	77015 -365	Kosmos-1936	Terilen	-	-	NIIP-5	LC1	-	-	299	-	-
1988-030	2447262.97	1988 Apr 11 1115:00	Soyuz-U	-	77015 -367	Kosmos-1938	Oblik	-	-	NIIP-53	LC16/2	-	-	442	-	-
1988-031	2447266.21	1988 Apr 14 1700:00	Soyuz-U	-	B 15000-480	Foton	Foton No. 4L	-	-	NIIP-53	LC41/1	-	-	458	-	-
1988-032	2447271.74	1988 Apr 20 0548:12	Vostok 8A92M	-	I 15000-78	Kosmos-1939	Resurs-O1 No. 2L	-	-	NIIP-5	LC31	-	-	690	-	-
1988-035	2447278.88	1988 Apr 27 0910:00	Soyuz-U	-	76035 -375	Kosmos-1941	Oblik	-	-	NIIP-5	LC31	-	-	489	-	-
1988-037	2447294.11	1988 May 12 1439:59	Soyuz-U	-	77015 -106	Kosmos-1942	Kobal't	-	-	NIIP-53	LC43/4	-	-	359	-	-
1988-038	2447294.52	1988 May 13 0030:25	Soyuz-U2	-	L 15000-023	Progress-36	Progress 7K-TG No. 144	-	-	NIIP-5	LC1	-	-	359	-	-
1988-041	2447299.94	1988 May 18 1030:01	Soyuz-U	-	76035 -460	Kosmos-1944	Kometa No. 9	-	-	NIIP-5	LC1	-	-	273	-	-
1988-042	2447300.89	1988 May 19 0915:00	Soyuz-U	-	76035 -378	Kosmos-1945	Oblik	-	-	NIIP-5	LC31	-	-	413	-	-
1988-044	2447308.14	1988 May 26 1527:00	Molniya 8K78M	ML	77011 -692	Molniya-3	Molniya-3 No. 49	-	-	NIIP-53	LC43/4	-	-	40837	-	-
1988-047	2447312.82	1988 May 31 0745:00	Soyuz-U	-	78039 -128	Kosmos-1951	Resurs-F1 14F43 No. 28	-	-	NIIP-53	LC41/1	-	-	274	-	-
1988-048	2447320.09	1988 Jun 7 1403:13	Soyuz-U2	-	I 15000-027	Soyuz TM-5	Soyuz 7K-STM No. 55	-	-	NIIP-5	LC1	-	-	368	-	-
1988-049	2447323.92	1988 Jun 11 1000:00	Soyuz-U	-	76035 -376	Kosmos-1952	Oblik	-	-	NIIP-5	LC1	-	-	401	-	-
1988-054	2447335.04	1988 Jun 22 1300:00	Soyuz-U	-	76035 -373	Kosmos-1955	Kobal't	-	-	NIIP-5	LC1	-	-	370	-	-
1988-055	2447335.82	1988 Jun 23 0745:00	Soyuz-U	-	77015 -366	Kosmos-1956	Oblik	-	-	NIIP-53	LC41/1	-	-	574	-	-
1988-057	2447349.84	1988 Jul 7 0805:00	Soyuz-U	-	78039 -129	Kosmos-1957	Resurs-F1 14F43 No. 29	-	-	NIIP-53	LC16/2	-	-	468	-	-
1988-F02	2447352.06	1988 Jul 9 1325:00	Soyuz-U	-	78028 -212	-	Terilen	-	-	NIIP-5	LC1	-	-	50?	-	-
1988-061	2447361.38	1988 Jul 18 2113:09	Soyuz-U2	-	L 15000-024	Progress-37	Progress 7K-TG No. 145	-	-	NIIP-5	LC1	-	-	369	-	-
1988-F04	2447369.88	1988 Jul 27 0905:00	Soyuz-U	-	78039 -130	-	Resurs-F1 14F43 No. 30	-	-	NIIP-53	LC43/4	-	-	0	-	-
1988-068	2447381.89	1988 Aug 8 0925:00	Soyuz-U	-	76035 -946	Kosmos-1962	Oblik	-	-	NIIP-5	LC1	-	-	457	-	-
1988-069	2447386.04	1988 Aug 12 1253:00	Molniya 8K78M	ML	76035 -532	Molniya-1	Molniya-1 No. 66	-	-	NIIP-53	LC41/1	-	-	40880	-	-
1988-070	2447390.04	1988 Aug 16 1300:00	Soyuz-U	-	76035 -947	Kosmos-1963	Kobal't	-	-	NIIP-5	LC1	-	-	354	-	-
1988-072	2447396.89	1988 Aug 23 0920:00	Soyuz-U	-	78039 -381	Kosmos-1964	Oblik	-	-	NIIP-5	LC1	-	-	445	-	-
1988-073	2447396.97	1988 Aug 23 1115:00	Soyuz-U	-	E 15000-569	Kosmos-1965	Resurs-F2 17F42 No. 2	-	-	NIIP-53	LC41/1	-	-	588	-	-
1988-075	2447402.68	1988 Aug 29 0423:11	Soyuz-U2	-	L 15000-030	Soyuz TM-6	Soyuz 7K-STM No. 56	-	-	NIIP-5	LC1	-	-	370	-	-
1988-076	2447404.09	1988 Aug 30 1414:54	Molniya 8K78M	2BL	77015 -526	Kosmos-1966	Oko	-	-	NIIP-53	LC16/2	-	-	40036	-	-
1988-079	2447410.81	1988 Sep 6 0730:01	Soyuz-U	-	76035 -377	Kosmos-1967	Oblik	-	-	NIIP-53	LC16/2	-	-	421	-	-
1988-082	2447413.94	1988 Sep 9 1040:00	Soyuz-U	-	78039 -131	Kosmos-1968	Resurs-F1 14F43 No. 31	-	-	NIIP-53	LC41/1	-	-	387	-	-
1988-083	2447414.48	1988 Sep 9 2333:40	Soyuz-U2	-	Ye15000-031	Progress-38	Progress 7K-TG No. 146	-	-	NIIP-5	LC1	-	-	370	-	-
1988-084	2447420.12	1988 Sep 15 1500:00	Soyuz-U	-	76048 -930	Kosmos-1969	Kobal't	-	-	NIIP-53	LC41/1	-	-	359	-	-
1988-088	2447426.93	1988 Sep 22 1020:00	Soyuz-U-PVB	-	76035 -379	Kosmos-1973	Oblik	-	-	NIIP-53	LC16/2	-	-	602	-	-
1988-090	2447433.88	1988 Sep 29 0907:00	Molniya 8K78M	ML	76048 -510	Molniya-3	Molniya-3 No. 51	-	-	NIIP-53	LC41/1	-	-	40028	-	-
1988-092	2447438.43	1988 Oct 3 2223:39	Molniya 8K78M	2BL	76035 -531	Kosmos-1974	Oko	-	-	NIIP-53	LC41/1	-	-	39784	-	-
1988-094	2447447.97	1988 Oct 13 1119:59	Soyuz-U	-	78039 -387	Kosmos-1976	Oblik	-	-	NIIP-53	LC16/2	-	-	616	-	-
1988-096	2447460.25	1988 Oct 25 1802:31	Molniya 8K78M	2BL	76035 -534	Kosmos-1977	Oko	-	-	NIIP-53	LC41/1	-	-	39727	-	-
1988-097	2447461.98	1988 Oct 27 1131:00	Soyuz-U	-	77059 -390	Kosmos-1978	Oblik	-	-	NIIP-53	LC16/2	-	-	417	-	-
1988-F05	2447476.94	1988 Nov 11 1030:00	Soyuz-U	-	76035 -713	-	Terilen	-	-	NIIP-5	LC1	-	-	170?	-	-
1988-103	2447490.12	1988 Nov 24 1450:00	Soyuz-U	-	76035 -372	Kosmos-1981	Oblik	-	-	NIIP-53	LC41/1	-	-	392	-	-
1988-104	2447492.16	1988 Nov 26 1549:34	Soyuz-U2	-	Ye15000-028	Soyuz TM-7	Soyuz 7K-STM No. 57	-	-	NIIP-5	LC1	-	-	417	-	-
1988-105	2447495.88	1988 Nov 30 0900:00	Soyuz-U	-	76035 -374	Kosmos-1982	Oblik	-	-	NIIP-5	LC1	-	-	565	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-107	2447504.12	1988 Dec 8 1450:00	Soyuz-U-PVB	-	76035 -380	Kosmos-1983	Oblik	-	-	NIIP-53	LC43/3	-	-	359	-	-
1988-110	2447512.29	1988 Dec 16 1900:00	Soyuz-U	-	78039 -968	Kosmos-1984	Kobal't	-	-	NIIP-53	LC16/2	-	-	371	-	-
1988-112	2447518.09	1988 Dec 22 1415:59	Molniya 8K78M	ML	77011 -690	Molniya-3	Molniya-3 No. 52	-	-	NIIP-53	LC43/3	-	-	40063	-	-
1988-114	2447520.67	1988 Dec 25 0411:37	Soyuz-U2	-	Ye15000-029	Progress-39	Progress 7K-TG No. 147	-	-	NIIP-5	LC1	-	-	368	-	-
1988-115	2447523.73	1988 Dec 28 0527:59	Molniya 8K78M	ML	78039 -559	Molniya-1	Molniya-1 No. 63	-	-	NIIP-53	LC43/3	-	-	40077	-	-
1988-116	2447524.92	1988 Dec 29 1000:00	Soyuz-U	-	78028 -458	Kosmos-1986	Kometa No. 10	-	-	NIIP-5	LC1	-	-	313	-	-
1989-002	2447538.98	1989 Jan 12 1129:59	Soyuz-U	-	Ye15000-580	Kosmos-1990	Resurs-F2 17F42 No. 3	-	-	NIIP-53	LC16/2	-	-	442	-	-
1989-003	2447544.85	1989 Jan 18 0820:00	Soyuz-U	-	77059 -388	Kosmos-1991	Oblik	-	-	GIK-5	LC1	-	-	604	-	-
1989-007	2447555.02	1989 Jan 28 1230:00	Soyuz-U	-	77015 -944	Kosmos-1993	Kobal't	-	-	GIK-5	LC1	-	-	351	-	-
1989-008	2447567.87	1989 Feb 10 0853:52	Soyuz-U2	-	Ye15000-032	Progress-40	Progress 7K-TG No. 148	-	-	GIK-5	LC1	-	-	370	-	-
1989-010	2447568.20	1989 Feb 10 1655:00	Soyuz-U	-	77059 -974	Kosmos-2000	Oblik	-	-	NIIP-53	LC41/1	-	-	575	-	-
1989-011	2447571.68	1989 Feb 14 0421:11	Molniya 8K78M	2BL	78039 -557	Kosmos-2001	Oko	-	-	NIIP-53	LC43/3	-	-	40098	-	-
1989-014	2447572.96	1989 Feb 15 1100:00	Molniya 8K78M	ML	77011 -691	Molniya-1	Molniya-1 11F658 No. 84	-	-	GIK-5	LC1?	-	-	39901	-	-
1989-015	2447575.12	1989 Feb 17 1459:59	Soyuz-U	-	78039 -384	Kosmos-2003	Oblik	-	-	NIIP-53	LC43/3	-	-	370	-	-
1989-019	2447588.29	1989 Mar 2 1859:59	Soyuz-U	-	78039 -969	Kosmos-2005	Kobal't	-	-	NIIP-53	LC43/3	-	-	356	-	-
1989-022	2447602.12	1989 Mar 16 1459:59	Soyuz-U-PVB	-	78039 -382	Kosmos-2006	Oblik	-	-	NIIP-53	LC16/2	-	-	601	-	-
1989-023	2447602.29	1989 Mar 16 1854:15	Soyuz-U2	-	T 15000-034	Progress-41	Progress 7K-TG No. 149	-	-	GIK-5	LC1	-	-	417	-	-
1989-024	2447609.02	1989 Mar 23 1225:00	Soyuz-U	-	77015 -875	Kosmos-2007	Terilen	-	-	GIK-5	LC1	-	-	308	-	-
1989-029	2447623.08	1989 Apr 6 1400:00	Soyuz-U-PVB	-	78039 -383	Kosmos-2017	Oblik	-	-	NIIP-53	LC43/3	-	-	353	-	-
1989-031	2447637.27	1989 Apr 20 1829:59	Soyuz-U	-	77059 -391	Kosmos-2018	Kobal't	-	-	NIIP-53	LC43/3	-	-	356	-	-
1989-032	2447643.21	1989 Apr 26 1700:00	Soyuz-U	-	T 15000-593	Foton	Foton No. 5L	-	-	NIIP-53	LC41/1	-	-	444	-	-
1989-034	2447652.04	1989 May 5 1300:00	Soyuz-U-PVB	-	77059 -394	Kosmos-2019	Oblik	-	-	NIIP-53	LC16/2	-	-	357	-	-
1989-036	2447664.04	1989 May 17 1300:00	Soyuz-U	-	76035 -876	Kosmos-2020	Kobal't	-	-	GIK-5	LC1	-	-	371	-	-
1989-037	2447670.94	1989 May 24 1030:00	Soyuz-U	-	77059 -471	Kosmos-2021	Kometa No. 11	-	-	GIK-5	LC1	-	-	301	-	-
1989-038	2447671.87	1989 May 25 0850:00	Soyuz-U-PVB	-	76047 -145	Resurs-F	Resurs-F1 14F43 No. 45	-	-	NIIP-53	LC43/3	-	-	404	-	-
1989-040	2447679.04	1989 Jun 1 1259:59	Soyuz-U	-	77059 -389	Kosmos-2025	Oblik	-	-	NIIP-53	LC43/4	-	-	355	-	-
1989-043	2447686.22	1989 Jun 8 1709:59	Molniya 8K78M	ML	76048 -506	Molniya-3	Molniya-3 No. 45	-	-	NIIP-53	LC43/3	-	-	40861	-	-
1989-047	2447693.90	1989 Jun 16 0930:00	Soyuz-U	-	77059 -398	Kosmos-2028	Oblik	-	-	GIK-5	LC1	-	-	444	-	-
1989-049	2447704.84	1989 Jun 27 0804:59	Soyuz-U	-	76047 -146	Resurs-F	Resurs-F1 14F43 No. 46	-	-	NIIP-53	LC16/2	-	-	476	-	-
1989-051	2447712.83	1989 Jul 5 0800:00	Soyuz-U-PVB	-	77059 -395	Kosmos-2029	Oblik	-	-	NIIP-53	LC43/4	-	-	567	-	-
1989-054	2447720.12	1989 Jul 12 1500:00	Soyuz-U	-	78039 -970	Kosmos-2030	Kobal't	-	-	NIIP-53	LC41/1	-	-	350	-	-
1989-055	2447725.91	1989 Jul 18 0944:59	Soyuz-U	-	76047 -147	Resurs-F	Resurs-F1 14F43 No. 47	-	-	NIIP-53	LC16/2	-	-	442	-	-
1989-056	2447726.01	1989 Jul 18 1210:00	Soyuz-U	-	T 15000-594	Kosmos-2031	Orlets	-	-	GIK-5	LC1	-	-	378	-	-
1989-057	2447727.87	1989 Jul 20 0859:59	Soyuz-U	-	77059 -393	Kosmos-2032	Oblik	-	-	NIIP-53	LC43/3	-	-	407	-	-
1989-060	2447740.98	1989 Aug 2 1129:59	Soyuz-U	-	77059 -396	Kosmos-2035	Oblik	-	-	NIIP-53	LC16/2	-	-	428	-	-
1989-063	2447753.94	1989 Aug 15 1029:59	Soyuz-U	-	77017 -254	Resurs-F	Resurs-F2 17F42 No. 4	-	-	NIIP-53	LC43/4	-	-	479	-	-
1989-065	2447761.04	1989 Aug 22 1259:59	Soyuz-U	-	76047 -809	Kosmos-2036	Oblik	-	-	NIIP-53	LC41/1	-	-	298	-	-
1989-066	2447761.63	1989 Aug 23 0309:32	Soyuz-U2	-	T 15000-037	Progress M	Progress 7K-TGM No. 201	-	-	GIK-5	LC1	-	-	408	-	-
1989-071	2447775.40	1989 Sep 5 2138:03	Soyuz-U2	-	T 15000-036	Soyuz TM-8	Soyuz 7K-STM No. 58	-	-	GIK-5	LC1	-	-	414	-	-
1989-073	2447775.95	1989 Sep 6 1049:59	Soyuz-U-PVB	-	76047 -810	Resurs-F	Resurs-F1 14F43 No. 48	-	-	NIIP-53	LC43/3	-	-	453	-	-
1989-075	2447784.77	1989 Sep 15 0630:02	Soyuz-U	-	T 15000-599	Kosmos-2044	Bion No. 9	-	-	NIIP-53	LC41/1	-	-	333	-	-
1989-076	2447791.83	1989 Sep 22 0800:00	Soyuz-U	-	77059 -392	Kosmos-2045	Oblik	-	-	GIK-5	LC1	-	-	438	-	-
1989-078	2447797.11	1989 Sep 27 1438:00	Molniya 8K78M	ML	78039 -556	Molniya-1	Molniya-1 No. 69	-	-	NIIP-53	LC43/4	-	-	40050	-	-
1989-082	2447803.12	1989 Oct 3 1459:59	Soyuz-U	-	78039 -386	Kosmos-2047	Kobal't	-	-	NIIP-53	LC43/3	-	-	390	-	-
1989-083	2447817.04	1989 Oct 17 1300:00	Soyuz-U	-	77059 -397	Kosmos-2048	Oblik	-	-	NIIP-53	LC43/4	-	-	387	-	-
1989-088	2447847.95	1989 Nov 17 1050:00	Soyuz-U	-	78039 -725	Kosmos-2049	Terilen	-	-	GIK-5	LC1	-	-	321	-	-
1989-091	2447854.36	1989 Nov 23 2035:44	Molniya 8K78M	2BL	77059 -563	Kosmos-2050	Oko	-	-	NIIP-53	LC16/2	-	-	39766	-	-
1989-094	2447858.92	1989 Nov 28 1002:00	Molniya 8K78M	ML	78039 -555	Molniya-3	Molniya-3 No. 46	-	-	NIIP-53	LC43/3	-	-	40762	-	-
1989-095	2447861.13	1989 Nov 30 1500:01	Soyuz-U	-	78039 -971	Kosmos-2052	Kobal't	-	-	NIIP-53	LC16/2	-	-	387	-	-
1989-099	2447880.65	1989 Dec 20 0330:50	Soyuz-U2	-	T 15000-039	Progress M-2	Progress 7K-TGM No. 202	-	-	GIK-5	LC1	-	-	414	-	-
1990-003	2447909.11	1990 Jan 17 1445:00	Soyuz-U	-	78047 -148	Kosmos-2055	Oblik	-	-	NIIP-53	LC43/3	-	-	320	-	-
1990-006	2447914.62	1990 Jan 23 0251:59	Molniya 8K78M	ML	77015 -527	Molniya-3	Molniya-3 No. 53	-	-	NIIP-53	LC43/4	-	-	40132	-	-
1990-009	2447917.22	1990 Jan 25 1715:00	Soyuz-U	-	77059 -971	Kosmos-2057	Kobal't	-	-	NIIP-53	LC16/2	-	-	364	-	-
1990-014	2447933.76	1990 Feb 11 0616:00	Soyuz-U2	-	T 15000-038	Soyuz TM-9	Soyuz 7K-STM No. 60	-	-	GIK-5	LC1	-	-	410	-	-
1990-020	2447951.47	1990 Feb 28 2310:57	Soyuz-U2	-	T 15000-040	Progress M-3	Progress 7K-TGM No. 203	-	-	GIK-5	LC1	-	-	400	-	-
1990-024	2447972.81	1990 Mar 22 0720:00	Soyuz-U	-	78039 -385	Kosmos-2062	Oblik	-	-	NIIP-53	LC43/4	-	-	509	-	-
1990-026	2447978.19	1990 Mar 27 1640:08	Molniya 8K78M	2BL	77059 -566	Kosmos-2063	Oko	-	-	NIIP-53	LC43/3	-	-	39740	-	-
1990-F02	2447985.25	1990 Apr 3 1800:00	Soyuz-U	-	76047 -975	-	Kobal't No. 527	-	-	NIIP-53	LC43/4	-	-	195?	-	-
1990-032	2447993.21	1990 Apr 11 1700:00	Soyuz-U	-	G 15000-590	Foton	Foton No. 6L	-	-	NIIP-53	LC43/3	-	-	438	-	-
1990-033	2447995.29	1990 Apr 13 1853:16	Soyuz-U	-	76035 -714	Kosmos-2072	Terilen	-	-	GIK-5	LC1	-	-	299	-	-
1990-035	2447998.83	1990 Apr 17 0800:00	Soyuz-U	-	77053 -814	Kosmos-2073	Oblik	-	-	NIIP-53	LC43/4	-	-	454	-	-
1990-039	2448007.57	1990 Apr 26 0137:00	Molniya 8K78M	ML	77015 -525	Molniya-1	Molniya-1 No. 71	-	-	NIIP-53	LC43/4	-	-	40809	-	-
1990-040	2448009.98	1990 Apr 28 1137:02	Molniya 8K78M	2BL	76047 -570	Kosmos-2076	Oko	-	-	NIIP-53	LC16/2	-	-	40038	-	-
1990-041	2448017.36	1990 May 5 2044:01	Soyuz-U2	-	T 15000-041	Progress-42	Progress 7K-TG No. 150	-	-	GIK-5	LC1	-	-	398	-	-
1990-042	2448019.28	1990 May 7 1839:59	Soyuz-U	-	77059 -973	Kosmos-2077	Kobal't	-	-	NIIP-53	LC16/2	-	-	387	-	-
1990-044	2448026.91	1990 May 15 0955:00	Soyuz-U	-	77059 -472	Kosmos-2078	Kometa No. 12	-	-	GIK-5	LC1	-	-	289	-	-
1990-047	2448040.81	1990 May 29 0719:59	Soyuz-U	-	77053 -149	Resurs-F	Resurs-F1 14F43 No. 50	-	-	NIIP-53	LC43/4	-	-	458	-	-
1990-052	2448055.55	1990 Jun 13 0107:00	Molniya 8K78M	ML	77015 -530	Molniya-3	Molniya-3 No. 47	-	-	NIIP-53	LC43/3	-	-	40838	-	-
1990-053	2448061.86	1990 Jun 19 0845:00	Soyuz-U	-	77053 -815	Kosmos-2083	Oblik	-	-	NIIP-53	LC16/2	-	-	603	-	-
1990-055	2448064.37	1990 Jun 21 2045:52	Molniya 8K78M	2BL	78039 -560	Kosmos-2084	Oko	-	-	NIIP-53	LC43/3	-	-	779	-	-
1990-F03	2448076.31	1990 Jul 3 1919:58	Soyuz-U	-	77015 -874	-	Kobal't No. 531	-	-	NIIP-53	LC16/2	-	-	70?	-	-
1990-058	2448083.92	1990 Jul 11 1000:00	Soyuz-U2	-	G 15000-035	Gamma	Gamma No. 1L	-	-	GIK-5	LC1	-	-	434	-	-
1990-060	2448089.90	1990 Jul 17 0929:59	Soyuz-U-PVB	-	78023 -265	Resurs-F	Resurs-F2 17F42 No. 5	-	-	NIIP-53	LC43/3	-	-	438	-	-
1990-062	2448092.86	1990 Jul 20 0840:00	Soyuz-U	-	78023 -816	Kosmos-2086	Oblik	-	-	NIIP-53	LC43/3	-	-	458	-	-
1990-064	2448098.26	1990 Jul 25 1813:56	Molniya 8K78M-PVB	2BL	77017 -572	Kosmos-2087	Oko	-	-	NIIP-53	LC16/2	-	-	40649	-	-
1990-067	2448104.90	1990 Aug 1 0932:21	Soyuz-U2	-	G 15000-043	Soyuz TM-10	Soyuz 7K-STM No. 61A	-	-	GIK-5	LC1	-	-	420	-	-
1990-069	2448107.32	1990 Aug 3 1945:00	Soyuz-U-PVB	-	76047 -976	Kosmos-2089	Kobal't	-	-	NIIP-53	LC16/2	-	-	359	-	-
1990-071	2448114.35	1990 Aug 10 2018:58	Molniya 8K78M	ML	77011 -693	Molniya-1	Molniya-1T No. 68	-	-	NIIP-53	LC43/4	-	-	40768	-	-
1990-072	2448118.67	1990 Aug 15 0400:41	Soyuz-U2	-	G 15000-042	Progress M-4	Progress 7K-TGM No. 204	-	-	GIK-5	LC1	-	-	411	-	-
1990-073	2448119.91	1990 Aug 16 0954:59	Soyuz-U-PVB	-	77053 -150	Resurs-F	Resurs-F1 14F43 No. 49	-	-	NIIP-53	LC43/4	-	-	448	-	-
1990-076	2448131.83	1990 Aug 28 0749:13	Molniya 8K78M-PVB	2BL	77017 -575	Kosmos-2097	Oko	-	-	NIIP-53	LC43/4	-	-	40029	-	-
1990-080	2448134.83	1990 Aug 31 0800:00	Soyuz-U	-	77053 -811	Kosmos-2099	Oblik	-	-	NIIP-53	LC43/4	-	-	427	-	-
1990-082	2448142.00	1990 Sep 7 1159:59	Soyuz-U-PVB	-	78023 -151	Resurs-F	Resurs-F1 14F43 No. 51	-	-	NIIP-53	LC16/2	-	-	312	-	-
1990-084	2448155.35	1990 Sep 20 2016:59	Molniya 8K78M	ML	77059 -562	Molniya-3	Molniya-3 No. 54	-	-	NIIP-53	LC43/4	-	-	40767	-	-
1990-085	2448161.94	1990 Sep 27 1037:42	Soyuz-U2	-	G 15000-044	Progress M-5	Progress 7K-TGM No. 206	-	-	GIK-5	LC1	-	-	420	-	-
1990-087	2448165.96	1990 Oct 1 1100:00	Soyuz-U2	-	G 15000-047	Kosmos-2101	Orlets	-	-	GIK-5	LC1	-	-	335	-	-

							Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-092	2448181.29	1990 Oct 16 1900:00	Soyuz-U	-	76047 -977	Kosmos-2102	Kobal't	-	-	NIIP-53	LC16/2	-	-	374	-	-
1990-098	2448212.19	1990 Nov 16 1630:00	Soyuz-U	-	77053 -812	Kosmos-2104	Oblik	-	-	NIIP-53	LC43/4	-	-	404	-	-
1990-099	2448215.61	1990 Nov 20 0233:14	Molniya 8K78M-PVB	2BL	76047 -568	Kosmos-2105	Oko	-	-	NIIP-53	LC16/2	-	-	40153	-	-
1990-101	2448218.66	1990 Nov 23 0351:00	Molniya 8K78M	ML	77015 -529	Molniya-1	Molniya-1T No. 70	-	-	NIIP-53	LC43/3	-	-	40757	-	-
1990-107	2448227.84	1990 Dec 2 0813:32	Soyuz-U2	-	T 15000-046	Soyuz TM-11	Soyuz 7K-STM No. 61	-	-	GIK-5	LC1	-	-	405	-	-
1990-109	2448230.27	1990 Dec 4 1830:00	Soyuz-U	-	76047 -978	Kosmos-2108	Kobal't	-	-	NIIP-53	LC43/4	-	-	379	-	-
1990-113	2448246.76	1990 Dec 21 0620:11	Soyuz-U	-	77017 -739	Kosmos-2113	Terilen	-	-	GIK-5	LC1?	-	-	364	-	-
1990-115	2448251.97	1990 Dec 26 1110:00	Soyuz-U-PVB	-	77053 -813	Kosmos-2120	Oblik	-	-	NIIP-53	LC16/2	-	-	351	-	-
1991-002	2448271.12	1991 Jan 14 1450:27	Soyuz-U2	-	G 15000-045	Progress M-6	Progress 7K-TGM No. 205	-	-	GIK-5	LC1	-	-	397	-	-
1991-004	2448273.94	1991 Jan 17 1030:01	Soyuz-U-PVB	-	78023 -817	Kosmos-2121	Oblik	-	-	NIIP-53	LC16/2	-	-	444	-	-
1991-008	2448295.26	1991 Feb 7 1815:00	Soyuz-U	-	77017 -980	Kosmos-2124	Kobal't	-	-	NIIP-53	LC16/2	-	-	409	-	-
1991-011	2448302.90	1991 Feb 15 0930:00	Soyuz-U	-	77053 -483	Kosmos-2134	Kometa No. 13	-	-	GIK-5	LC1	-	-	308	-	-
1991-012	2448303.14	1991 Feb 15 1519:00	Molniya 8K78M	ML	77017 -571	Molniya-1	Molniya-1T No. 73?	-	-	NIIP-53	LC43/3	-	-	40086	-	-
1991-016	2448322.15	1991 Mar 6 1530:00	Soyuz-U-PVB	-	78023 -819	Kosmos-2136	Oblik	-	-	NIIP-53	LC16/2	-	-	375	-	-
1991-020	2448335.05	1991 Mar 19 1305:15	Soyuz-U2	-	R 15000-049	Progress M-7	Progress 7K-TGM No. 208	-	-	GIK-5	LC1	-	-	388	-	-
1991-022	2448338.01	1991 Mar 22 1219:59	Molniya 8K78M	ML	77017 -574	Molniya-3	Molniya-3 No. 55	-	-	NIIP-53	LC43/3	-	-	40022	-	-
1991-023	2448342.07	1991 Mar 26 1345:00	Soyuz-U	-	77053 -982	Kosmos-2138	Kobal't	-	-	NIIP-53	LC16/2	-	-	372	-	-
1991-034	2448395.04	1991 May 18 1250:28	Soyuz-U2	-	R 15000-051	Soyuz TM-12	Soyuz 7K-STM No. 62	-	-	GIK-5	LC1	-	-	407	-	-
1991-035	2448397.88	1991 May 21 0900:00	Soyuz-U-PVB	-	78023 -266	Resurs-F	Resurs-F2 17F42 No. 6	-	-	NIIP-53	LC43/4	-	-	415	-	-
1991-036	2448401.15	1991 May 24 1529:59	Soyuz-U	-	77017 -981	Kosmos-2149	Kobal't	-	-	NIIP-53	LC43/3	-	-	377	-	-
1991-038	2448406.84	1991 May 30 0804:03	Soyuz-U2	-	R 15000-050	Progress M-8	Progress 7K-TGM No. 207	-	-	GIK-5	LC1	-	-	398	-	-
1991-043	2448425.88	1991 Jun 18 0909:00	Molniya 8K78M	ML	77053 -606	Molniya-1	Molniya-1T No. 74	-	-	NIIP-53	LC43/4	-	-	40811	-	-
1991-044	2448435.84	1991 Jun 28 0809:59	Soyuz-U-PVB	-	78023 -153	Resurs-F	Resurs-F1 14F43 No. 52	-	-	NIIP-53	LC43/3	-	-	435	-	-
1991-048	2448446.90	1991 Jul 9 0940:00	Soyuz-U-PVB	-	78023 -818	Kosmos-2152	Oblik	-	-	NIIP-53	LC43/4	-	-	431	-	-
1991-049	2448448.08	1991 Jul 10 1400:00	Soyuz-U	-	77059 -726	Kosmos-2153	Yantar'-4KS1M	-	-	GIK-5	LC31	-	-	321	-	-
1991-052	2448460.88	1991 Jul 23 0905:00	Soyuz-U	-	78012 -152	Resurs-F	Resurs-F1 14F43 No. 53	-	-	NIIP-53	LC43/3	-	-	401	-	-
1991-053	2448470.00	1991 Aug 1 1153:00	Molniya 8K78M	ML	76035 -533	Molniya-1	Molniya-1T No. 76	-	-	NIIP-53	LC43/4	-	-	40792	-	-
1991-057	2448489.45	1991 Aug 20 2254:10	Soyuz-U2	-	R 15000-052	Progress M-9	Progress 7K-TGM No. 210	-	-	GIK-5	LC1	-	-	407	-	-
1991-058	2448489.95	1991 Aug 21 1050:00	Soyuz-U-PVB	-	78012 -269	Resurs-F	Resurs-F2 17F42 No. 7	-	-	NIIP-53	LC43/3	-	-	364	-	-
1991-061	2448497.78	1991 Aug 29 0648:43	Vostok 8A92M	-	I 15000-079	IRS-1B	IRS-1B	-	-	GIK-5	LC31	-	-	923	-	-
1991-065	2448517.33	1991 Sep 17 2001:59	Molniya 8K78M	ML	76047 -569	Molniya-3	Molniya-3 No. 48	-	-	NIIP-53	LC43/4	-	-	40844	-	-
1991-066	2448519.18	1991 Sep 19 1620:00	Soyuz-U	-	77053 -983	Kosmos-2156	Kobal't	-	-	NIIP-53	LC43/3	-	-	358	-	-
1991-069	2448531.75	1991 Oct 2 0559:38	Soyuz-U2	-	R 15000-054	Soyuz TM-13	Soyuz 7K-STM No. 63	-	-	GIK-5	LC1	-	-	405	-	-
1991-070	2448534.26	1991 Oct 4 1810:00	Soyuz-U-PVB	-	R 15000-026	Foton	Foton No. 7L	-	-	NIIP-53	LC43/4	-	-	415	-	-
1991-071	2448539.05	1991 Oct 9 1315:00	Soyuz-U2	-	G 15000-048	Kosmos-2163	Orlets	-	-	GIK-5	LC1	-	-	360	-	-
1991-073	2448546.50	1991 Oct 17 0005:25	Soyuz-U2	-	R 15000-055	Progress M-10	Progress 7K-TGM No. 211	-	-	GIK-5	LC1	-	-	409	-	-
1991-078	2448581.30	1991 Nov 20 1915:00	Soyuz-U	-	77053 -984	Kosmos-2171	Kobal't	-	-	NIIP-53	LC43/3	-	-	350	-	-
1991-085	2448607.96	1991 Dec 17 1100:00	Soyuz-U	-	76032 -494	Kosmos-2174	Kometa No. 14	-	-	GIK-5	LC31	-	-	308	-	-
1992-001	2448643.12	1992 Jan 21 1500:00	Soyuz-U	-	77053 -985	Kosmos-2175	Kobal't	-	-	NIIP-53	LC43/4	-	-	366	-	-
1992-003	2448645.55	1992 Jan 24 0118:01	Molniya 8K78M	2BL	78023 -608	Kosmos-2176	Oko	-	-	NIIP-53	LC43/3	-	-	40051	-	-
1992-004	2448646.83	1992 Jan 25 0750:17	Soyuz-U2	-	R 15000-058	Progress M-11	Progress 7K-TGM No. 212	-	-	GIK-5	LC1	-	-	405	-	-
1992-011	2448685.69	1992 Mar 4 0427:00	Molniya 8K78M	ML	76047 -567	Molniya-1	Molniya-1T No. 75	-	-	NIIP-53	LC43/4	-	-	40025	-	-
1992-014	2448698.95	1992 Mar 17 1054:30	Soyuz-U2	-	R 15000-056	Soyuz TM-14	Soyuz 7K-STM No. 64	-	-	GIK-5	LC1	-	-	415	-	-
1992-016	2448714.10	1992 Apr 1 1418:00	Soyuz-U-PVB	-	78023 -988	Kosmos-2182	Kobal't	-	-	NIIP-53	LC16/2	-	-	368	-	-
1992-018	2448721.01	1992 Apr 8 1220:00	Soyuz-U	-	77053 -750	Kosmos-2183	Neman	-	-	GIK-5	LC31	-	-	295	-	-
1992-022	2448732.40	1992 Apr 19 2129:25	Soyuz-U2	-	R 15000-059	Progress M-12	Progress 7K-TGM No. 213	-	-	GIK-5	LC1	-	-	415	-	-
1992-024	2448741.88	1992 Apr 29 0900:00	Soyuz-U	-	78012 -267	Resurs-F	Resurs-F2 17F42 No. 8	-	-	NIIP-53	LC43/4	-	-	312	-	-
1992-025	2448741.92	1992 Apr 29 1010:00	Soyuz-U	-	77017 -738	Kosmos-2185	Kometa No. 15	-	-	GIK-5	LC1	-	-	328	-	-
1992-029	2448771.30	1992 May 28 1909:59	Soyuz-U	-	78023 -986	Kosmos-2186	Kobal't	-	-	NIIP-53	LC16/2	-	-	398	-	-
1992-033	2448796.83	1992 Jun 23 0800:00	Soyuz-U-PVB	-	78012 -154	Resurs-F	Resurs-F1 14F43 No. 55	-	-	NIIP-53	LC43/3	-	-	402	-	-
1992-035	2448804.20	1992 Jun 30 1643:13	Soyuz-U2	-	U 15000-062	Progress M-13	Progress 7K-TGM No. 214	-	-	GIK-5	LC31	-	-	410	-	-
1992-040	2448811.91	1992 Jul 8 0953:14	Molniya 8K78M-PVB	2BL	77053 -605	Kosmos-2196	Oko	-	-	NIIP-53	LC43/3	-	-	40093	-	-
1992-045	2448828.32	1992 Jul 24 1940:00	Soyuz-U	-	78012 -989	Kosmos-2203	Kobal't	-	-	NIIP-53	LC43/3	-	-	370	-	-
1992-046	2448830.76	1992 Jul 27 0608:42	Soyuz-U2	-	R 15000-053	Soyuz TM-15	Soyuz 7K-STM No. 65	-	-	GIK-5	LC1	-	-	410	-	-
1992-048	2448833.96	1992 Jul 30 1100:00	Soyuz-U-PVB	-	76032 -832	Kosmos-2207	Oblik	-	-	NIIP-53	LC43/4	-	-	509	-	-
1992-050	2448841.31	1992 Aug 6 1930:59	Molniya 8K78M	ML	78039 -558	Molniya-1	Molniya-1T No. 72	-	-	NIIP-53	LC43/3	-	-	40837	-	-
1992-055	2448850.43	1992 Aug 15 2218:32	Soyuz-U2	-	U 15000-064	Progress M-14	Progress 7K-TGM No. 209	-	-	GIK-5	LC31	-	-	409	-	-
1992-056	2448853.93	1992 Aug 19 1020:00	Soyuz-U	-	76024 -157	Resurs-F	Resurs-F1 14F43 No. 54	-	-	NIIP-53	LC16/2	-	-	392	-	-
1992-062	2448888.17	1992 Sep 22 1610:00	Soyuz-U	-	78023 -987	Kosmos-2210	Kobal't	-	-	NIIP-53	LC16/2	-	-	372	-	-
1992-065	2448904.29	1992 Oct 8 1900:00	Soyuz-U	-	U 15000-623	Foton	Foton No. 8L	-	-	NIIP-53	LC43/4	-	-	432	-	-
1992-067	2448910.33	1992 Oct 14 1958:00	Molniya 8K78M-PVB	ML	78012 -641	Molniya-3	Molniya-3 No. 50	-	-	NIIP-53	LC43/3	-	-	40853	-	-
1992-069	2448916.93	1992 Oct 21 1021:22	Molniya 8K78M-PVB	2BL	77053 -604	Kosmos-2217	Oko	-	-	NIIP-53	LC16/2	-	-	40058	-	-
1992-071	2448923.22	1992 Oct 27 1719:41	Soyuz-U2	-	U 15000-061	Progress M-15	Progress 7K-TGM No. 215	-	-	GIK-5	LC31	-	-	402	-	-
1992-075	2448942.41	1992 Nov 15 2145:01	Soyuz-U-PVB	-	U 15000-037	Resurs-500	Resurs-500 No. 1	-	-	NIIP-53	LC16/2	-	-	377	-	-
1992-077	2448947.15	1992 Nov 20 1529:59	Soyuz-U	-	78012 -990	Kosmos-2220	Kobal't	-	-	NIIP-53	LC43/4	-	-	376	-	-
1992-081	2448952.01	1992 Nov 25 1218:54	Molniya 8K78M-PVB	2BL	77059 -565	Kosmos-2222	Oko	-	-	NIIP-53	LC43/3	-	-	40015	-	-
1992-085	2448958.58	1992 Dec 2 0157:00	Molniya 8K78M-PVB	ML	78023 -607	Molniya-3	Molniya-3 No. 56	-	-	NIIP-53	LC43/3	-	-	40083	-	-
1992-087	2448965.98	1992 Dec 9 1125:00	Soyuz-U	-	76032 -495	Kosmos-2223	Neman	-	-	GIK-5	LC1	-	-	380	-	-
1992-091	2448979.00	1992 Dec 22 1200:00	Soyuz-U	-	76032 -314	Kosmos-2225	Don	-	-	GIK-5	LC31	-	-	315	-	-
1992-095	2448986.06	1992 Dec 29 1330:01	Soyuz-U-PVB	-	U 15000-033	Kosmos-2229	Bion No. 10	-	-	NIIP-53	LC43/3	-	-	478	-	-
1993-002	2449000.58	1993 Jan 13 0149:00	Molniya 8K78M	ML	78012 -643	Molniya-1	Molniya-1T No. 78	-	-	GNIIPV	LC43/4	-	-	40712	-	-
1993-004	2449007.12	1993 Jan 19 1449:01	Soyuz-U	-	77017 -979	Kosmos-2231	Kobal't	-	-	GNIIPV	LC43/3	-	-	393	-	-
1993-005	2449011.75	1993 Jan 24 0558:05	Soyuz-U2	-	U 15000-060	Soyuz TM-16	Soyuz 7K-STM No. 101	-	-	GIK-5	LC1	-	-	397	-	-
1993-006	2449014.16	1993 Jan 26 1555:26	Molniya 8K78M	2BL	78023 -609	Kosmos-2232	Oko	-	-	GNIIPV	LC16/2	-	-	39770	-	-
1993-012	2449040.27	1993 Feb 21 1832:33	Soyuz-U2	-	U 15000-068	Progress M-16	Progress 7K-TGM No. 216	-	-	GIK-5	LC1	-	-	397	-	-
1993-019	2449077.65	1993 Mar 31 0334:13	Soyuz-U2	-	N 15000-069	Progress M-17	Progress 7K-TGM No. 217	-	-	GIK-5	LC1	-	-	401	-	-
1993-021	2449080.10	1993 Apr 2 1430:01	Soyuz-U	-	78012 -991	Kosmos-2240	Kobal't	-	-	GNIIPV	LC16/2	-	-	381	-	-
1993-022	2449084.30	1993 Apr 6 1907:27	Molniya 8K78M	2BL	78012 -644	Kosmos-2241	Oko	-	-	GNIIPV	LC43/4	-	-	40109	-	-
1993-025	2449098.52	1993 Apr 21 0023:00	Molniya 8K78M	ML	76032 -646	Molniya-3	Molniya-3 No. 57	-	-	GNIIPV	LC43/4	-	-	40897	-	-
1993-028	2449104.94	1993 Apr 27 1035:00	Soyuz-U	-	76047 -737	Kosmos-2243	Kometa No. 16	-	-	GIK-5	LC31	-	-	273	-	-
1993-033	2449128.89	1993 May 21 0915:01	Soyuz-U	-	78012 -830	Resurs-F	Resurs-F2 17F42 No. 9	-	-	GNIIPV	LC16/2	-	-	371	-	-
1993-034	2449129.78	1993 May 22 0641:47	Soyuz-U2	-	U 15000-063 (Kero)	Progress M-18	Progress 7K-TGM No. 218	-	-	GIK-5	LC1	-	-	396	-	-
1993-035	2449133.64	1993 May 26 0323:59	Molniya 8K78M	ML	77044 -660	Molniya-1	Molniya-1T No. 81	-	-	GNIIPV	LC43/4	-	-	40892	-	-
1993-040	2449163.85	1993 Jun 25 0820:00	Soyuz-U-PVB	-	76024 -156	Resurs-F	Resurs-F1 14F43 No. 57	-	-	GNIIPV	LC16/2	-	-	414	-	-
1993-043	2449170.11	1993 Jul 1 1432:58	Soyuz-U2	-	N 15000-070	Soyuz TM-17	Soyuz 7K-STM No. 66	-	-	GIK-5	LC1	-	-	397	-	-
1993-045	2449183.19	1993 Jul 14 1640:00	Soyuz-U-PVB	-	76024 -994	Kosmos-2259	Kobal't	-	-	GNIIPV	LC43/3	-	-	357	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-047	2449190.86	1993 Jul 22 0845:00	Soyuz-U-PVB	-	76024 -269	Kosmos-2260	Resurs-T	-	-	GNIIPV	LC43/3	-	-	496	-	-
1993-049	2449203.54	1993 Aug 4 0052:00	Molniya 8K78M	ML	76024 -659	Molniya-3	Molniya-3 No. 58	-	-	GNIIPV	LC43/3	-	-	40003	-	-
1993-051	2449210.12	1993 Aug 10 1453:45	Molniya 8K78M	2BL	78023 -610	Kosmos-2261	Oko	-	-	GNIIPV	LC16/2	-	-	40170	-	-
1993-052	2449210.43	1993 Aug 10 2223:45	Soyuz-U	-	N 15000-634	Progress M-19	Progress 7K-TGM No. 219	-	-	GIK-5	LC1	-	-	397	-	-
1993-053	2449223.95	1993 Aug 24 1045:00	Soyuz-U-PVB	-	78012 -155	Resurs-F	Resurs-F1 14F43 No. 56	-	-	GNIIPV	LC16/2	-	-	447	-	-
1993-057	2449238.06	1993 Sep 7 1325:00	Soyuz-U2	-	77044 -356	Kosmos-2262	Don	-	-	GIK-5	LC31	-	-	336	-	-
1993-064	2449272.40	1993 Oct 11 2133:19	Soyuz-U	-	77044 -270	Progress M-20	Progress 7K-TGM No. 220	-	-	GIK-5	LC1	-	-	397	-	-
1993-071	2449296.85	1993 Nov 5 0825:00	Soyuz-U	-	76024 -496	Kosmos-2267	Neman	-	-	GIK-5	LC1	-	-	322	-	-
1993-079	2449344.36	1993 Dec 22 2037:16	Molniya 8K78M	ML	78024 -658	Molniya-1T	Molniya-1T	-	-	GNIIPV	LC43/3	-	-	40086	-	-
1994-001	2449360.92	1994 Jan 8 1005:34	Soyuz-U2	-	N 15000-071	Soyuz TM-18	Soyuz 7K-STM No. 67	-	-	GIK-5	LC1	-	-	403	-	-
1994-005	2449380.59	1994 Jan 28 0212:10	Soyuz-U	-	N 15000-635	Progress M-21	Progress 7K-TGM No. 221	-	-	GIK-5	LC1	-	-	403	-	-
1994-018	2449429.19	1994 Mar 17 1630:00	Soyuz-U-PVB	-	76032 -993	Kosmos-2274	Kobal't	-	-	GNIIPV	LC43/3	-	-	381	-	-
1994-019	2449433.70	1994 Mar 22 0454:12	Soyuz-U	-	76032 -992	Progress M-22	Progress 7K-TGM No. 222	-	-	GIK-5	LC1	-	-	402	-	-
1994-025	2449471.22	1994 Apr 28 1714:00	Soyuz-U	-	78023 -751	Kosmos-2280	Neman	-	-	GIK-5	LC31	-	-	331	-	-
1994-031	2449494.69	1994 May 22 0430:04	Soyuz-U2	-	76024 -355	Progress M-23	Progress 7K-TGM No. 223	-	-	GIK-5	LC1	-	-	400	-	-
1994-032	2449510.81	1994 Jun 7 0720:00	Soyuz-U-PVB	-	78012 -831	Kosmos-2281	Oblik (Priroda)	-	-	GNIIPV	LC16/2	-	-	509	-	-
1994-033	2449518.17	1994 Jun 14 1605:00	Soyuz-U-PVB	-	N 15000-040	Foton	Foton No. 9	-	-	GNIIPV	LC43/3	-	-	454	-	-
1994-036	2449535.02	1994 Jul 1 1224:50	Soyuz-U2	-	N 15000-072	Soyuz TM-19	Soyuz 7K-STM No. 68	-	-	GIK-5	LC1	-	-	399	-	-
1994-042	2449554.23	1994 Jul 20 1735:00	Soyuz-U-PVB	-	77044 -995	Kosmos-2283	Kobal't	-	-	GNIIPV	LC43/3	-	-	373	-	-
1994-044	2449562.90	1994 Jul 29 0930:00	Soyuz-U	-	77031 -497	Kosmos-2284	Kometa No. 17	-	-	GIK-5	LC31	-	-	321	-	-
1994-048	2449569.55	1994 Aug 5 0112:21	Molniya 8K78M	2BL	78012 -642	Kosmos-2286	Oko	-	-	GNIIPV	LC16/2	-	-	39776	-	-
1994-051	2449588.10	1994 Aug 23 1430:59	Molniya 8K78M	ML	77044 -661	Molniya-3	Molniya-3 No. 60	-	-	GNIIPV	LC43/4	-	-	40086	-	-
1994-052	2449590.10	1994 Aug 25 1425:12	Soyuz-U	-	N 15000-636	Progress M-24	Progress 7K-TGM No. 224	-	-	GIK-5	LC1	-	-	423	-	-
1994-063	2449629.45	1994 Oct 3 2242:30	Soyuz-U2	-	Ya15000-074	Soyuz TM-20	Soyuz 7K-STM No. 69	-	-	GIK-5	LC1	-	-	398	-	-
1994-075	2449667.81	1994 Nov 11 0721:58	Soyuz-U	-	Ya15000-638	Progress M-25	Progress 7K-TGM No. 225	-	-	GIK-5	LC1	-	-	398	-	-
1994-081	2449701.10	1994 Dec 14 1421:00	Molniya 8K78M	ML	77031 -672	Molniya-1T	Molniya-1T	-	-	GIK-1	LC43/4	-	-	40145	-	-
1994-088	2449715.98	1994 Dec 29 1130:00	Soyuz-U	-	76032 -762	Kosmos-2305	Neman	-	-	GIK-5	LC31	-	-	317	-	-
1995-005	2449764.20	1995 Feb 15 1648:28	Soyuz-U	-	Ya15000-641	Progress M-26	Progress 7K-TGM No. 226	-	-	GIK-5	LC1	-	-	397	-	-
1995-006	2449765.24	1995 Feb 16 1739:59	Soyuz-U	-	Ya15000-051	Foton	Foton No. 10	-	-	GIK-1	LC43/4	-	-	482	-	-
1995-010	2449790.76	1995 Mar 14 0611:34	Soyuz-U2	-	V 15000-075	Soyuz TM-21	Soyuz 7K-STM No. 70	-	-	GIK-5	LC1	-	-	400	-	-
1995-014	2449799.20	1995 Mar 22 1644:59	Soyuz-U-PVB	-	77031 -507	Kosmos-2311	Kobal't	-	-	GIK-1	LC43/3	-	-	388	-	-
1995-020	2449817.32	1995 Apr 9 1934:12	Soyuz-U	-	V 15000-646	Progress M-27	Progress 7K-TGM No. 227	-	-	GIK-5	LC1	-	-	417	-	-
1995-026	2449862.34	1995 May 24 2010:09	Molniya 8K78M	2BL	77017 -573	Kosmos-2312	Oko	-	-	GIK-1	LC16/2	-	-	39999	-	-
1995-031	2449897.27	1995 Jun 28 1825:00	Soyuz-U-PVB	-	77031 -506	Kosmos-2314	Kobal't	-	-	GIK-1	LC43/3	-	-	408	-	-
1995-036	2449918.63	1995 Jul 20 0304:41	Soyuz-U	-	V 15000-643	Progress M-28	Progress 7K-TGM No. 228	-	-	GIK-5	LC1	-	-	398	-	-
1995-039	2449932.50	1995 Aug 2 2359:11	Molniya 8K78M	2BL	N 15000-294	Interbol-1	SO-M2 No. 511	-	-	GIK-1	LC43/3	-	-	150000	-	-
1995-042	2449938.60	1995 Aug 9 0221:00	Molniya 8K78M	ML	77031 -674	Molniya-3	Molniya-3 No. 59	-	-	GIK-1	LC43/3	-	-	40922	-	-
1995-047	2449963.88	1995 Sep 3 0900:23	Soyuz-U2	-	V 15000-076	Soyuz TM-22	Soyuz 7K-STM No. 71	-	-	GIK-5	LC1	-	-	399	-	-
1995-050	2449986.97	1995 Sep 26 1120:00	Soyuz-U	-	V 15000-053	Resurs-F2	Resurs-F2 No. 10	-	-	GIK-1	LC43/4	-	-	492	-	-
1995-051	2449989.68	1995 Sep 29 0425:00	Soyuz-U	-	Ya15000-642	Kosmos-2320	Neman	-	-	GIK-5	LC31	-	-	388	-	-
1995-053	2449999.29	1995 Oct 8 1850:40	Soyuz-U	-	V 15000-645	Progress M-29	Progress 7K-TGM No. 229	-	-	GIK-5	LC1	-	-	399	-	-
1995-070	2450070.11	1995 Dec 18 1431:35	Soyuz-U	-	V 15000-647	Progress M-30	Progress 7K-TGM No. 230	-	-	GIK-5	LC1	-	-	409	-	-
1995-072	2450079.78	1995 Dec 28 0645:18	Molniya 8K78M	2BL	V 15000-040	IRS-1C	IRS-1C	-	-	GIK-5	LC31	-	-	825	-	-
1996-011	2450135.02	1996 Feb 21 1234:05	Soyuz-U	-	V 15000-651	Soyuz TM-23	Soyuz 7K-STM No. 72	-	-	GIK-5	LC1	-	-	398	-	-
1996-016	2450157.24	1996 Mar 14 1740:00	Soyuz-U-PVB	-	77044 -764	Kosmos-2331	Kobal't	-	-	GIK-1	LC43/4	-	-	584	-	-
1996-028	2450208.79	1996 May 5 0704:18	Soyuz-U	-	Kh15000-648	Progress M-31	Progress 7K-TGM No. 231	-	-	GIK-5	LC1	-	-	396	-	-
1996-F02	2450217.87	1996 May 14 0855:00	Soyuz-U	-	78051 -368	-	Kometa No. 18	-	-	GIK-5	LC31	-	-	70?	-	-
1996-F04	2450255.28	1996 Jun 20 1844:59	Soyuz-U-PVB	-	77044 -843	-	Kobal't	-	-	GIK-1	LC16/2	-	-	10?	-	-
1996-043	2450296.33	1996 Jul 31 2000:06	Soyuz-U	-	Kh15000-049	Progress M-32	Progress 7K-TGM No. 232	-	-	GIK-5	LC1	-	-	392	-	-
1996-045	2450310.43	1996 Aug 14 2220:59	Molniya 8K78M	ML	77031 -675	Molniya-1T	Molniya-1T	-	-	GIK-1	LC43/3	-	-	40826	-	-
1996-047	2450313.05	1996 Aug 17 1318:03	Soyuz-U	-	Kh15000-077	Soyuz TM-24	Soyuz 7K-STM No. 73	-	-	GIK-5	LC1	-	-	395	-	-
1996-050	2450324.72	1996 Aug 29 0522:00	Molniya 8K78M	2BL	76047 -680	Interbol-2	Microsatelite	-	-	GIK-1	LC43/3	-	-	19213	-	-
1996-060	2450380.98	1996 Oct 24 1137:00	Molniya 8K78M	2BL	78012 -645	Molniya-3	Molniya-3 No. 62	-	-	GIK-1	LC43/4	-	-	40852	-	-
1996-066	2450407.47	1996 Nov 19 2320:38	Soyuz-U	-	Kh15000-639	Progress M-33	Progress 7K-TGM No. 233	-	-	GIK-5	LC1	-	-	462	-	-
1996-073	2450442.08	1996 Dec 24 1350:00	Soyuz-U	-	V 15000-050	Bion No. 11	Bion No. 11	-	-	GIK-1	LC43/4	-	-	468	-	-
1997-003	2450490.09	1997 Feb 10 1409:30	Soyuz-U	-	Kh15000-650	Soyuz TM-25	Soyuz 7K-STM No. 74	-	-	GIK-5	LC1	-	-	396	-	-
1997-014	2450545.17	1997 Apr 6 1604:05	Soyuz-U	-	Kh15000-652	Progress M-34	Progress 7K-TGM No. 234	-	-	GIK-5	LC1	-	-	396	-	-
1997-015	2450547.87	1997 Apr 9 0858:44	Molniya 8K78M	2BL	76032 -647	Kosmos-2340	Oko	-	-	GIK-1	LC16/2	-	-	39827	-	-
1997-022	2450582.52	1997 May 14 0033:57	Molniya 8K78M	2BL	77031 -673	Kosmos-2342	Oko	-	-	GIK-1	LC43/4	-	-	39868	-	-
1997-024	2450584.01	1997 May 15 1210:00	Soyuz-U	-	77031 -168	Kosmos-2343	Don	-	-	GIK-5	LC31	-	-	357	-	-
1997-033	2450634.67	1997 Jul 5 0411:54	Soyuz-U	-	S 15000-653	Progress M-35	Progress 7K-TGM No. 235	-	-	GIK-5	LC1	-	-	402	-	-
1997-038	2450666.15	1997 Aug 5 1535:53	Soyuz-U	-	S 15000-655	Soyuz TM-26	Soyuz 7K-STM No. 75	-	-	GIK-5	LC1	-	-	392	-	-
1997-054	2450716.40	1997 Sep 24 2130:59	Molniya 8K78M	ML	78051 -678	Molniya-1T	Molniya-1T No. 98	-	-	GIK-1	LC43/3	-	-	40803	-	-
1997-058	2450727.13	1997 Oct 5 1508:57	Soyuz-U	-	S 15000-064	Progress M-36	Progress 7K-TGM No. 236	RS-17	-	GIK-5	LC1	-	-	392	-	-
1997-060	2450731.25	1997 Oct 9 1759:59	Soyuz-U	-	S 15000-057	Foton No. 11	Foton No. 11	-	-	GIK-1	LC43/3	-	-	460	-	-
1997-072	2450770.97	1997 Nov 18 1114:59	Soyuz-U	-	S 15000-054	Resurs F-1M	Resurs F-1M	-	-	GIK-1	LC43/3	-	-	436	-	-
1997-080	2450798.15	1997 Dec 15 1540:00	Soyuz-U-PVB	-	76024 -763	Kosmos-2348	Kobal't	-	-	GIK-1	LC16/2	-	-	396	-	-
1997-081	2450802.86	1997 Dec 20 0845:02	Soyuz-U	-	S 15000-654	Progress M-37	Progress 7K-TGM No 236	-	-	GIK-5	LC1	-	-	403	-	-
1998-004	2450843.19	1998 Jan 29 1633:42	Soyuz-U-PVB	?	S 15000-657	Soyuz TM-27	Soyuz 7K-STM No. 76	-	-	GIK-5	LC1	-	-	385	-	-
1998-009	2450861.94	1998 Feb 17 1035:00	Soyuz-U-PVB	?	A 15000-046	Kosmos-2349	Kometa No. 19	-	-	GIK-5	LC31	-	-	331	-	-
1998-015	2450887.45	1998 Mar 14 2245:55	Soyuz-U-PVB	?	S 15000-656	Progress M-38	Progress 7K-TGM No 240	-	-	GIK-5	LC1	-	-	382	-	-
1998-027	2450940.87	1998 May 7 0853:22	Molniya 8K78M	ML	78051 -676	Kosmos-2351	Oko	-	-	GIK-1	LC16/2	-	-	39841	-	-
1998-031	2450948.43	1998 May 14 2212:59	Soyuz-U-PVB	?	M 15000-661	Progress M-39	Progress 7K-TGM No 238	-	-	GIK-5	LC1	-	-	394	-	-
1998-038	2450989.27	1998 Jun 24 1829:58	Soyuz-U-PVB	?	Kh15000-043	Kosmos-2358	Kobal't	-	-	GIK-1	LC43/3	-	-	397	-	-
1998-039	2450990.08	1998 Jun 25 1400:00	Soyuz-U-PVB	?	A 15000-499	Kosmos-2359	Neman	-	-	GIK-5	LC31	-	-	336	-	-
1998-040	2450995.53	1998 Jul 1 0048:01	Molniya 8K78M	ML	77017 -682	Molniya-3	Molniya-3 No. 61	-	-	GIK-1	LC43/3	-	-	40798	-	-
1998-047	2451038.90	1998 Aug 13 0943:11	Soyuz-U-PVB	?	M 15000-658	Soyuz TM-28	Soyuz 7K-STM No. 77	-	-	GIK-5	LC1	-	-	373	-	-
1998-054	2451085.49	1998 Sep 28 2341:27	Molniya 8K78M	ML	Kh15000-030	Molniya-1T	Molniya-1T No. 99	-	-	GIK-1	LC43/3	-	-	40920	-	-
1998-062	2451111.68	1998 Oct 25 0414:57	Soyuz-U-PVB	?	M 15000-660	Progress M-40	Progress 7K-TGM No 239	-	-	GIK-5	LC1	-	-	367	-	-
1999-004	2451218.66	1999 Feb 9 0353:59	Soyuz-U-PVB	Ikar	S 15000-058	Globalstar S-1	Globalstar S-1	ST01	-	GIK-5	LC1	-	-	1753	-	-
1999-007	2451229.68	1999 Feb 20 0418:01	Soyuz-U	-	M 15000-662	Soyuz TM-29	Soyuz 7K-STM No. 78	-	-	GIK-5	LC1	-	-	364	-	-
1999-012	2451252.63	1999 Mar 15 0306:00	Soyuz-U-PVB	Ikar	S 15000-059	Globalstar S-2	Globalstar S-2	ST02	-	GIK-5	LC1	-	-	1796	-	-
1999-015	2451270.98	1999 Apr 2 1128:43	Soyuz-U-PVB	-	M 15000-663	Progress M-41	Progress 7K-TGM No 241	-	-	GIK-5	LC1	-	-	362	-	-
1999-019	2451283.53	1999 Apr 15 0046:00	Soyuz-U-PVB	Ikar	S 15000-060	Globalstar S-3	Globalstar S-3	ST03	-	GIK-5	LC1	-	-	1731	-	-
1999-036	2451367.86	1999 Jul 8 0845:06	Molniya 8K78M	ML	78051 -677	Molniya-3	Molniya-3 No. 63?	-	-	GIK-1	LC43/3	-	-	40829	-	-
1999-038	2451376.19	1999 Jul 16 1637:33	Soyuz-U-PVB	-	M 15000-667	Progress M-42	Progress 7K-TGM No 242	-	-	GIK-5	LC1	-	-	359	-	-

							Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-044	2451409.25	1999 Aug 18 1800:01	Soyuz-U-PVB	-	77017 -785	Kosmos-2365	Kobal't	-	-	GIK-1	LC43/3	-	-	410	-	-
1999-048	2451431.25	1999 Sep 9 1800:00	Soyuz-U-PVB	-	M 15000-082	Foton No. 12	Foton No. 12	-	-	GIK-1	LC43/4	-	-	496	-	-
1999-049	2451444.11	1999 Sep 22 1433:00	Soyuz-U-PVB	Ikar	S 15000-061	Globalstar S-4	Globalstar S-4	ST04	-	GIK-5	LC1	-	-	5517	-	-
1999-054	2451449.96	1999 Sep 28 1100:05	Soyuz-U-PVB	-	M 15000-045	Resurs F-1M	Resurs F-1M	-	-	GIK-1	LC43/4	-	-	433	-	-
1999-058	2451470.06	1999 Oct 18 1332:00	Soyuz-U-PVB	Ikar	M 15000-062	Globalstar S-5	Globalstar S-5	ST05	-	GIK-5	LC1	-	-	1682	-	-
1999-062	2451505.18	1999 Nov 22 1620:00	Soyuz-U-PVB	Ikar	M 15000-063	Globalstar S-6	Globalstar S-6	ST06	-	GIK-5	LC1	-	-	1792	-	-
1999-073	2451540.30	1999 Dec 27 1912:44	Molniya 8K78M	2BL	77017 -681	Kosmos-2368	Oko	-	-	GIK-1	LC16/2	-	-	39792	-	-
2000-005	2451575.78	2000 Feb 1 0647:23	Soyuz-U-PVB	-	A 15000-669	Progress M1-1	Progress 7K-TGM No. 250	-	-	GIK-5	LC1	-	-	354	-	-
2000-009	2451583.47	2000 Feb 8 2320:00	Soyuz-U-PVB	Fregat	A 15000-079/1001	IRDT/GVM	Dummy satellite	ST07	-	GIK-5	LC31	-	-	613	-	-
2000-015	2451624.27	2000 Mar 20 1828:30	Soyuz-U-PVB	Fregat	A 15000-068/1002	Dumsat	Dumsat	ST08	-	GIK-5	LC31	-	-	18021	-	-
2000-018	2451638.71	2000 Apr 4 0501:29	Soyuz-U-PVB	-	A 15000-665	Soyuz TM-30	Soyuz 7K-STM No. 204	-	-	GIK-5	LC1	-	-	384	-	-
2000-021	2451660.34	2000 Apr 25 2008:02	Soyuz-U-PVB	-	A 15000-664	Progress M1-2	Progress M1 No. 252	-	-	GIK-5	LC1	-	-	384	-	-
2000-023	2451668.06	2000 May 3 1325:00	Soyuz-U-PVB	-	A 15000-649	Kosmos-2370	Neman	-	-	GIK-5	LC1	-	-	374	-	-
2000-041	2451742.03	2000 Jul 16 1239:34	Soyuz-U-PVB	Fregat	A 15000-069/1003	Cluster FM6/FM7	Cluster FM7 (C3)	ST09	-	GIK-5	LC31	-	-	134657	-	-
2000-044	2451763.27	2000 Aug 6 1826:42	Soyuz-U-PVB	-	K 15000-668	Progress M1-3	Progress M1 No. 251	ISS 1P	-	GIK-5	LC1	-	-	389	-	-
2000-045	2451765.97	2000 Aug 9 1113:35	Soyuz-U-PVB	Fregat	A 15000-070/1004	Cluster FM5/FM8	Cluster FM5 (C1)	ST10	-	GIK-5	LC31	-	-	134664	-	-
2000-058	2451816.90	2000 Sep 29 0930:15	Soyuz-U-PVB	-	76023 -462 075	Kosmos-2373	Kometa No. 20?	-	-	GIK-5	LC31	-	-	286	-	-
2000-064	2451834.39	2000 Oct 16 2127:06	Soyuz-U-PVB	-	K 15000-085	Progress M-43	Progress 7K-TGM No. 243	-	-	GIK-5	LC1	-	-	358	-	-
2000-070	2451848.83	2000 Oct 31 0752:47	Soyuz-U-PVB	-	A 15000-666	Soyuz TM-31	Soyuz 7K-STM No. 205	ISS 1S	-	GIK-5	LC1	-	-	404	-	-
2000-073	2451864.56	2000 Nov 16 0132:36	Soyuz-U-PVB	-	K 15000-671	Progress M1-4	Progress M1 No. 253	ISS 2P	-	GIK-5	LC1	-	-	383	-	-
2001-003	2451933.69	2001 Jan 24 0428:42	Soyuz-U-PVB	-	K 15000-673	Progress M1-5	Progress M1 No. 254	-	-	GIK-5	LC1	-	-	305	-	-
2001-008	2451966.84	2001 Feb 26 0809:35	Soyuz-U-PVB	-	K 15000-670	Progress M-44	Progress 7K-TGM No. 244	ISS 3P	-	GIK-5	LC1	-	-	395	-	-
2001-017	2452027.82	2001 Apr 28 0737:20	Soyuz-U-PVB	-	K 15000-674	Soyuz TM-32	Soyuz 7K-STM No. 206	ISS 2S	-	GIK-5	LC1	-	-	403	-	-
2001-021	2452050.44	2001 May 20 2232:40	Soyuz-FG	-	K 15000-001	Progress M1-6	Progress M1 No. 255	ISS 4P	-	GIK-5	LC1	-	-	402	-	-
2001-022	2452059.25	2001 May 29 1755:00	Soyuz-U-PVB	-	77023 -841 076	Kosmos-2377	Kobal't	-	-	GIK-1	LC43/4	-	-	365	-	-
2001-030	2452110.51	2001 Jul 20 0017:00	Molniya 8K78M	ML	77045 -686 043	Molniya-3	Molniya-3K No. 11?	-	-	GIK-1	LC43/4	-	-	40831	-	-
2001-036	2452142.89	2001 Aug 21 0923:54	Soyuz-U-PVB	-	M 15000-065	Progress M-45	Progress M No. 245	ISS 5P	-	GIK-5	LC1	-	-	417	-	-
2001-041	2452167.48	2001 Sep 14 2334:55	Soyuz-U-PVB	-	F 15000-677	Pirs	Progress No. 301	ISS 4R	-	GIK-5	LC1	-	-	677	-	-
2001-048	2452203.87	2001 Oct 21 0859:35	Soyuz-U-PVB	-	F 15000-672	Soyuz TM-33	Soyuz TM No. 207	ISS 3S	-	GIK-5	LC1	-	-	401	-	-
2001-050	2452207.98	2001 Oct 25 1134:13	Molniya 8K78M	ML	77013 -687 044	Molniya-3	Molniya-3 No. 64	-	-	GIK-1	LC43/3	-	-	40876	-	-
2001-051	2452240.27	2001 Nov 26 1824:12	Soyuz-FG	-	F 15000-002	Progress M1-7	Progress M1 No. 256	ISS 6P	-	GIK-5	LC1	-	-	401	-	-
2002-008	2452331.23	2002 Feb 25 1726:21	Soyuz-U-PVB	-	77082 -842 083	Kosmos-2387	Kobal't	-	-	GIK-1	LC43/3	-	-	357	-	-
2002-013	2452355.34	2002 Mar 21 2013:39	Soyuz-U-PVB	-	F 15000-678	Progress M1-8	Progress M1 No. 257	ISS 7P	-	GIK-5	LC1	-	-	399	-	-
2002-017	2452366.42	2002 Apr 1 2206:45	Molniya 8K78M	2BL	78054 -688 045	Kosmos-2388	Oko US-KS	-	-	GIK-1	LC16/2	-	-	40013	-	-
2002-020	2452389.77	2002 Apr 25 0626:35	Soyuz-U-PVB	-	F 15000-675	Soyuz TM-34	Soyuz TM No. 208	ISS 4S	-	GIK-5	LC1	-	-	408	-	-
2002-033	2452451.73	2002 Jun 26 0536:30	Soyuz-U-PVB	-	E 15000-679	Progress M-46	Progress M No. 246	ISS 8P	-	GIK-5	LC1	-	-	408	-	-
2002-045	2452543.21	2002 Sep 25 1658:24	Soyuz-FG	-	E 15000-003	Progress M1-9	Progress M1 No. 258	ISS 9P	-	GIK-5	LC1	-	-	406	-	-
2002-F02	2452563.26	2002 Oct 15 1820:00	Soyuz-U-PVB	-	A 15000-066	Foton-M No. 1	Foton-M No. 1	-	-	GIK-1	LC43/3	-	-	0	-	-
2002-050	2452577.63	2002 Oct 30 0311:11	Soyuz-FG	-	E 15000-004	Soyuz TMA-1	Soyuz 11F732 No. 211	ISS 5S	-	GIK-5	LC1	-	-	404	-	-
2002-059	2452633.01	2002 Dec 24 1220:13	Molniya 8K78M	2BL	77045 -685 042	Kosmos-2393	Oko US-KS	-	-	GIK-1	LC16/2	-	-	40153	-	-
2003-006	2452673.04	2003 Feb 2 1259:40	Soyuz-U-PVB	-	E 15000-680	Progress M-47	Progress M No. 247	ISS 10P	-	GIK-5	LC1	-	-	401	-	-
2003-011	2452731.58	2003 Apr 2 0153:01	Molniya 8K78M	2BL	78029 -684 041	Molniya-1T	Molniya-1T No. 101	-	-	GIK-1	LC16/2	-	-	40810	-	-
2003-016	2452755.66	2003 Apr 26 0353:52	Soyuz-FG	-	E 15000-006	Soyuz TMA-2	Soyuz 11F732 No. 212	ISS 6S	-	GIK-5	LC1	-	-	396	-	-
2003-022	2452793.24	2003 Jun 2 1745:26	Soyuz-FG	Fregat	E 15000-005/1005	Mars Express	Mars Express	ST11	-	GIK-5	LC31	-	-	150000	-	-
2003-025	2452798.94	2003 Jun 8 1034:19	Soyuz-U-PVB	-	D 15000-681	Progress M1-10	Progress M1 No. 259	ISS 11P	-	GIK-5	LC1	-	-	412	-	-
2003-029	2452810.33	2003 Jun 19 2000:35	Molniya 8K78M	2BL	77082 -689 046	Molniya-3	Molniya-3 No. 65L	-	-	GIK-1	LC16/2	-	-	40853	-	-
2003-035	2452864.10	2003 Aug 12 1420:00	Soyuz-U-PVB	-	77082 -575 081	Kosmos-2399	Don	-	-	GIK-5	LC31	-	-	365	-	-
2003-039	2452880.57	2003 Aug 29 0147:59	Soyuz-U-PVB	-	D 15000-682	Progress M-48	Progress M No. 248	ISS 12P	-	GIK-5	LC1	-	-	386	-	-
2003-047	2452930.73	2003 Oct 18 0538:03	Soyuz-FG	-	D 15000-007	Soyuz TMA-3	Soyuz 11F732 No. 213	ISS 7S	-	GIK-5	LC1	-	-	384	-	-
2003-059	2453001.40	2003 Dec 27 2130:00	Soyuz-FG	Fregat	D 15000-008/1006	Amos-2	Amos-2	ST12	-	GIK-5	LC31	-	-	36062	-	-
2004-002	2453034.00	2004 Jan 29 1158:08	Soyuz-U-PVB	-	D 15000-683	Progress M1-11	Progress M1 No. 260	ISS 13P	-	GIK-5	LC1	-	-	376	-	-
2004-005	2453053.80	2004 Feb 18 0705:55	Molniya 8K78M	ML	76092 -690 047	Molniya-1T	Molniya-1T?	-	-	GIK-1	LC16/2	-	-	40719	-	-
2004-013	2453114.64	2004 Apr 19 0319:00	Soyuz-FG	-	Zh15000-009	Soyuz TMA-4	Soyuz 11F732 No. 214	ISS 8S	-	GIK-5	LC1	-	-	370	-	-
2004-019	2453151.02	2004 May 25 1234:23	Soyuz-U-PVB	-	D 15000-684	Progress M-49	Progress M No. 249	ISS 14P	-	GIK-5	LC1	-	-	367	-	-
2004-032	2453228.71	2004 Aug 11 0503:07	Soyuz-U	-	D 15000-685	Progress M-50	Progress 7K-TGM No. 350	ISS 15P	-	GIK-5	LC1	-	-	370	-	-
2004-038	2453273.20	2004 Sep 24 1650:00	Soyuz-U-PVB	-	78036 -844 087	Kosmos-2410	Kobal't-M	-	-	GIK-1	LC16/2	-	-	358	-	-
2004-040	2453292.63	2004 Oct 14 0306:26	Soyuz-FG	-	Zh15000-012	Soyuz TMA-5	Soyuz 11F732 No. 215	ISS 9S	-	GIK-5	LC1	-	-	367	-	-
2004-U01	2453318.27	2004 Nov 8 1829:58	Soyuz-2-1A	-	F 15000-001	Oblik 17F116ML	Oblik 17F116ML No. 103	-	-	GIK-1	LC43/4	-	-	-	-	Kura
2004-051	2453363.43	2004 Dec 23 2219:34	Soyuz-U-PVB	-	Zh15000-092	Progress M-51	Progress 7K-TGM No. 351	ISS 16P	-	GIK-5	LC1	-	-	366	-	-
2005-007	2453430.30	2005 Feb 28 1909:18	Soyuz-U-PVB	-	Zh15000-093	Progress M-52	Progress 7K-TGM No. 352	ISS 17P	-	GIK-5	LC1	-	-	413	-	-
2005-013	2453475.53	2005 Apr 15 0046:25	Soyuz-FG	-	Zh15000-014	Soyuz TMA-6	Soyuz 11F732 No. 216	ISS 10S	-	GIK-5	LC1	-	-	360	-	-
2005-020	2453522.00	2005 May 31 1200:00	Soyuz-U-PVB	-	Zh15000-091	Foton-M No. 2	Foton-M No. 2	-	-	GIK-5	LC1	-	-	518	-	-
2005-021	2453538.46	2005 Jun 16 2309:34	Soyuz-U-PVB	-	Zh15000-094	Progress M-53	Progress 7K-TGM No. 353	ISS 18P	-	GIK-5	LC1	-	-	357	-	-
2005-F01	2453542.53	2005 Jun 21 0048:37	Molniya 8K78M	ML	77046 -694 051	Molniya-3K	Molniya-3K No. 12L	-	-	GIK-1	LC16/2	-	-	195?	-	-
2005-030	2453596.48	2005 Aug 13 2328:27	Soyuz-FG	Fregat	Zh15000-011/1007	Galaxy 14	Galaxy 14	ST13	-	GIK-5	LC31	-	-	66268	-	-
2005-034	2453615.91	2005 Sep 2 0950:00	Soyuz-U-PVB	-	78036 -576 086	Kosmos-2415	Kometa No. 21L	-	-	GIK-5	LC31	-	-	313	-	-
2005-035	2453622.05	2005 Sep 8 1307:54	Soyuz-U-PVB	-	P 15000-095	Progress M-54	Progress 7K-TGM No. 354	ISS 19P	-	GIK-5	LC1	-	-	358	-	-
2005-039	2453644.66	2005 Oct 1 0354:53	Soyuz-FG	-	Zh15000-017	Soyuz TMA-7	Soyuz 11F732 No. 217	ISS 11S	-	GIK-5	LC1	-	-	358	-	-
2005-045	2453683.65	2005 Nov 9 0333:34	Soyuz-FG	Fregat	Zh15000-010/1010	Venus Express	Venus Express	ST14	-	GIK-5	LC31	-	-	150000	-	-
2005-047	2453726.28	2005 Dec 21 1838:20	Soyuz-U-PVB	-	F 15000-080	Progress M-55	Progress 7K-TGM No. 355	ISS 20P	-	GIK-5	LC1	-	-	356	-	-
2005-051	2453732.72	2005 Dec 28 0519:08	Soyuz-FG	Fregat	P 15000-015/1009	GIOVE A	GSTB-v2/A	ST15	-	GIK-5	LC31	-	-	23744	-	-
2006-009	2453824.60	2006 Mar 30 0230:20	Soyuz-FG	-	P 15000-018	Soyuz TMA-8	Soyuz 11F732 No. 218	ISS 12S	-	GIK-5	LC1	-	-	351	-	-
2006-013	2453850.17	2006 Apr 24 1603:25	Soyuz-U-PVB	-	P 15000-100	Progress M-56	Progress 7K-TGM No. 356	ISS 21P	-	GIK-5	LC1	-	-	351	-	-
2006-017	2453859.23	2006 May 3 1738:01	Soyuz-U-PVB	-	78031 -800 090	Kosmos-2420	Kobal't-M	-	-	GIK-1	LC16/2	-	-	366	-	-
2006-021	2453901.83	2006 Jun 15 0800:00	Soyuz-U-PVB	-	P 15000-096	Resurs DK-1	Resurs-DK No. 1	-	-	GIK-5	LC1	-	-	585	-	-
2006-025	2453911.13	2006 Jun 24 1508:18	Soyuz-U-PVB	-	Zh15000-101	Progress M-57	Progress 7K-TGM No. 357	ISS 22P	-	GIK-5	LC1	-	-	359	-	-
2006-030	2453937.68	2006 Jul 21 0420:03	Molniya 8K78M	2BL	78036 -691 048	Kosmos-2422	Oko US-KS?	-	-	GIK-1	LC16/2	-	-	40185	-	-
2006-039	2453993.07	2006 Sep 14 1341:00	Soyuz-U-PVB	-	78041 -490 088	Kosmos-2423	Don No. 8L	-	-	GIK-5	LC31	-	-	333	-	-
2006-040	2453996.67	2006 Sep 18 0408:42	Soyuz-FG	-	Ts15000-023	Soyuz TMA-9	Soyuz 11F732 No. 219	ISS 13S	-	GIK-5	LC1	-	-	359	-	-
2006-044	2454028.19	2006 Oct 19 1628:13	Soyuz-2-1A	Fregat	Zh15000-003/1011	Metop 2	METOP A	ST16	-	GIK-5	LC31	-	-	830	-	-
2006-045	2454032.07	2006 Oct 23 1340:36	Soyuz-U-PVB	-	Ts15000-102	Progress M-58	Progress 7K-TGM No. 358	ISS 23P	-	GIK-5	LC1	-	-	359	-	-
2006-061	2454093.86	2006 Dec 24 0834:44	Soyuz-2-1A	Fregat	77033 -135 002/1012	Meridian 1	Meridian No. 11L	-	-	GIK-1	LC43/4	-	-	40519	-	-
2006-063	2454097.10	2006 Dec 27 1423:38	Soyuz-2-1B	Fregat	P 15000-001/1013	COROT	COROT	ST17	-	GIK-5	LC31	-	-	969	-	-
2007-002	2454118.59	2007 Jan 18 0212:13	Soyuz-U-PVB	-	Ts15000-107	Progress M-59	Progress 7K-TGM No. 359	ISS 24P	-	GIK-5	LC1	-	-	353	-	-
2007-008	2454198.23	2007 Apr 7 1731:14	Soyuz-FG	-	Ts15000-019	Soyuz TMA-10	Soyuz 11F732 No. 220	ISS 14S	-	GIK-5	LC1	-	-	348	-	-
2007-017	2454232.64	2007 May 12 0325:38	Soyuz-U-PVB	-	Ts15000-104	Progress M-60	Progress 7K-TGM No. 360	ISS 25P	-	GIK-5	LC1	-	-	349	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-020	2454250.36	2007 May 29 2031:30	Soyuz-FG	Fregat	Ts15000-021/1016	Globalstar	Globalstar 2-1	ST18	-	GIK-5	LC31	-	-	1423	-	-
2007-022	2454259.25	2007 Jun 7 1800:01	Soyuz-U-PVB	-	76033 -137 099	Kosmos-2427	Kobal't-M	-	-	GIK-1	LC16/2	-	-	386	-	-
2007-033	2454315.23	2007 Aug 2 1733:47	Soyuz-U-PVB	-	Ts15000-108	Progress M-61	Progress 7K-TGM No. 361	ISS 26P	-	GIK-5	LC1	-	-	347	-	-
2007-040	2454357.96	2007 Sep 14 1100:00	Soyuz-U-PVB	-	Ts15000-098	Foton-M No. 3	Foton-M No. 3	-	-	GIK-5	LC1	-	-	516	-	-
2007-045	2454384.06	2007 Oct 10 1322:39	Soyuz-FG	-	Ts15000-020	Soyuz TMA-11	Soyuz 11F732 No. 221	ISS 15S	-	GIK-5	LC1	-	-	345	-	-
2007-048	2454394.34	2007 Oct 20 2012:25	Soyuz-FG	Fregat	Ts15000-022/1015	Globalstar	Globalstar 2-2	ST19	-	GIK-5	LC31	-	-	1505	-	-
2007-049	2454396.69	2007 Oct 23 0439:17	Molniya 8K78M	2BL	77046 -692 049	Kosmos-2430	Oko US-KS	-	-	GIK-1	LC16/2	-	-	40143	-	-
2007-061	2454449.05	2007 Dec 14 1317:34	Soyuz-FG	Fregat	Ts15000-025/1015-2	Radarsat-2	Radarsat-2	ST20	-	GIK-5	LC31	-	-	1012	-	-
2007-064	2454457.80	2007 Dec 23 0712:41	Soyuz-U-PVB	-	Sh15000-109	Progress M-62	Progress 7K-TGM No.362	ISS 27P	-	GIK-5	LC1	-	-	350	-	-
2008-004	2454502.04	2008 Feb 5 1302:57	Soyuz-U-PVB	-	Ts15000-106	Progress M-63	Progress 7K-TGM No.363	ISS 28P	-	GIK-5	LC1	-	-	344	-	-
2008-015	2454564.97	2008 Apr 8 1116:39	Soyuz-FG	-	Sh15000-024	Soyuz TMA-12	Soyuz 11F732 No. 222	ISS 16S	-	GIK-5	LC1	-	-	362	-	-
2008-020	2454583.43	2008 Apr 26 2216:02	Soyuz-FG	Fregat	P 15000-016/1008	GIOVE B	Giove B	ST21	-	GIK-5	LC31	-	-	23838	-	-
2008-023	2454601.35	2008 May 14 2022:56	Soyuz-U-PVB	-	Sh15000-110	Progress M-64	Progress 7K-TGM No.364	ISS 29P	-	GIK-5	LC1	-	-	418	-	-
2008-037	2454674.27	2008 Jul 26 1831:36	Soyuz-2-1B	-	77057 -145 003	Kosmos-2441	Persona No. 1	-	-	GIK-1	LC43/4	-	-	746	-	-
2008-043	2454720.33	2008 Sep 10 1950:02	Soyuz-U-PVB	-	Sh15000-111	Progress M-65	Progress 7K-TGM No.365	ISS 30P	-	GIK-5	LC1	-	-	366	-	-
2008-050	2454751.79	2008 Oct 12 0701:33	Soyuz-FG	-	Sh15000-026	Soyuz TMA-13	Soyuz 11F732A17 No. 223	ISS 17S	-	GIK-5	LC1	-	-	363	-	-
2008-058	2454785.16	2008 Nov 14 1550:00	Soyuz-U-PVB	-	77057 -146 103	Kosmos-2445	Kobal't-M	-	-	GIK-1	LC16/2	-	-	401	-	-
2008-060	2454797.03	2008 Nov 26 1238:38	Soyuz-U-PVB	-	Sh15000-114	Progress M-01M	Progress 7K-TGM No.401	ISS 31P	-	GIK-5	LC1	-	-	363	-	-
2008-062	2454802.71	2008 Dec 2 0459:59	Molniya 8K78M	2BL	77046 -693 050	Kosmos-2446	Oko TP 6070	-	-	GIK-1	LC16/2	-	-	40078	-	-
2009-006	2454872.74	2009 Feb 10 0549:46	Soyuz-U-PVB	-	Yu15000-115	Progress M-66	Progress 7K-TGM No.366	ISS 32P	-	GIK-5	LC31	-	-	414	-	-
2009-015	2454916.99	2009 Mar 26 1149:18	Soyuz-FG	-	Yu15000-027	Soyuz TMA-14	Soyuz 11F732A17 No. 224	ISS 18S	-	GIK-5	LC1	-	-	360	-	-
2009-022	2454951.21	2009 Apr 29 1658:00	Soyuz-U-PVB	-	78075 -152 105	Kosmos-2450	Kobal't-M	-	-	GIK-1	LC16/2	-	-	382	-	-
2009-024	2454959.28	2009 May 7 1837:09	Soyuz-U-PVB	-	Sh15000-113	Progress M-02M	Progress 7K-TGM No.402	ISS 33P	-	GIK-5	LC1	-	-	357	-	-
2009-029	2454973.41	2009 May 21 2153:33	Soyuz-2-1A	Fregat	77067 -162 005	Meridian No. 12	Meridian No. 12	-	-	GIK-1	LC43/4	-	-	36473	-	-
2009-030	2454978.94	2009 May 27 1034:53	Soyuz-FG	-	Yu15000-030	Soyuz TMA-15	Soyuz 11F732A17 No. 225	ISS 19S	-	GIK-5	LC1	-	-	414	-	-
2009-040	2455036.96	2009 Jul 24 1056:56	Soyuz-U-PVB	-	Yu15000-112	Progress M-67	Progress 7K-TGM No.367	ISS 34P	-	GIK-5	LC1	-	-	354	-	-
2009-049	2455092.16	2009 Sep 17 1555:07	Soyuz-2-1B	Fregat	Ts15000-002	Meteor-M No. 1	Soyuz Rideshare 1	-	-	GIK-5	LC31	-	-	824	-	-
2009-053	2455104.80	2009 Sep 30 0714:45	Soyuz-FG	-	B 15000-029	Soyuz TMA-16	Soyuz 11F732A17 No. 226	ISS 20S	-	GIK-5	LC1	-	-	354	-	-
2009-056	2455119.55	2009 Oct 15 0114:37	Soyuz-U-PVB	-	Yu15000-120	Progress M-03M	Progress 7K-TGM No.403	ISS 35P	-	GIK-5	LC1	-	-	849	-	-
2009-060	2455146.10	2009 Nov 10 1422:04	Soyuz-U-PVB	-	B 15000-121	Poisk	Maliy Issled. Modul-2	ISS 5R	-	GIK-5	LC1	-	-	415	-	-
2009-063	2455155.95	2009 Nov 20 1044:00	Soyuz-U-PVB	-	76043 -811 097	Kosmos-2455	Lotos-S No. 801	-	-	GIK-1	LC16/2	-	-	912	-	-
2009-074	2455186.41	2009 Dec 20 2152:00	Soyuz-FG	-	B 15000-031	Soyuz TMA-17	Soyuz 11F732A17 No. 227	ISS 21S	-	GIK-5	LC1	-	-	356	-	-
2010-003	2455230.66	2010 Feb 3 0345:29	Soyuz-U-PVB	-	B 15000-117	Progress M-04M	Progress 7K-TGM No.404	ISS 36P	-	GIK-5	LC1	-	-	356	-	-
2010-011	2455288.67	2010 Apr 2 0404:33	Soyuz-FG	-	Yu15000-028	Soyuz TMA-18	Soyuz 11F732A17 No. 228	ISS 22S	-	GIK-5	LC1	-	-	361	-	-
2010-014	2455303.12	2010 Apr 16 1500:00	Soyuz-U-PVB	-	76029 -169 124	Kosmos-2462	Kobal't-M No 561	-	-	GIK-1	LC16/2	-	-	373	-	-
2010-018	2455315.22	2010 Apr 28 1715:09	Soyuz-U-PVB	-	B 15000-118	Progress M-05M	Progress 7K-TGM No.405	ISS 37P	-	GIK-5	LC1	-	-	374	-	-
2010-029	2455363.40	2010 Jun 15 2135:19	Soyuz-FG	-	B 15000-032	Soyuz TMA-19	Soyuz 11F732A17 No. 229	ISS 23S	-	GIK-5	LC1	-	-	361	-	-
2010-033	2455378.15	2010 Jun 30 1535:14	Soyuz-U-PVB	-	B 15000-119	Progress M-06M	Progress 7K-TGM No.406	ISS 38P	-	GIK-5	LC1	-	-	367	-	-
2010-044	2455449.93	2010 Sep 10 1022:57	Soyuz-U-PVB	-	B 15000-122	Progress M-07M	Progress 7K-TGM No.407	ISS 39P	-	GIK-5	LC31	-	-	360	-	-
2010-049	2455470.21	2010 Sep 30 1701:15	Molniya 8K78M	2BL	78041 -699 052	Kosmos-2469	Oko TP 6071	-	-	GIK-1	LC16/2	-	-	40024	-	-
2010-052	2455477.47	2010 Oct 7 2310:55	Soyuz-FG	-	B 15000-035	Soyuz TMA-01M	Soyuz 11F732A47 No. 701	ISS 24S	-	GIK-5	LC1	-	-	358	-	-
2010-054	2455489.22	2010 Oct 19 1710:59	Soyuz-2-1A	Fregat	B 15000-009/ST22	Globalstar	Globalstar 2-3	ST22	-	GIK-5	LC31	-	-	1420	-	-
2010-055	2455497.13	2010 Oct 27 1511:50	Soyuz-U-PVB	-	I 15000-123	Progress M-08M	Progress 7K-TGM No.408	ISS 40P	-	GIK-5	LC1	-	-	358	-	-
2010-058	2455502.54	2010 Nov 2 0058:39	Soyuz-2-1A	Fregat	760-12 -167 006	Meridian No. 13	Meridian No. 13L	-	-	GIK-1	LC43/4	-	-	39778	-	-
2010-067	2455546.30	2010 Dec 15 1909:25	Soyuz-FG	-	B 15000-034	Soyuz TMA-20	Soyuz 11F732A17 No. 230	ISS 25S	-	GIK-5	LC1	-	-	357	-	-
2011-004	2455589.56	2011 Jan 28 0131:39	Soyuz-U-PVB	-	I 15000-126	Progress M-09M	Progress 7K-TGM No.409	ISS 41P	-	GIK-5	LC1	-	-	416	-	-
2011-009	2455618.63	2011 Feb 26 0307:15	Soyuz-2-1B	Fregat	770-24 -208 017	Glonass-K1	Uragan-K1 No. 11L	-	-	GIK-1	LC43/4	-	-	19719	-	-
2011-012	2455656.43	2011 Apr 4 2218:20	Soyuz-FG	-	I 15000-036	Soyuz TMA-21	Soyuz 11F732A17 No. 231	ISS 26S	-	GIK-5	LC1	-	-	396	-	-
2011-017	2455679.05	2011 Apr 27 1305:21	Soyuz-U-PVB	-	Yu15000-116	Progress M-10M	Progress 7K-TGM No.410	ISS 42P	-	GIK-5	LC1	-	-	404	-	-
2011-018	2455686.24	2011 May 4 1741:33	Soyuz-2-1A	Fregat	760-12 -230 015	Meridian No. 14	Meridian No. 14L	-	-	GIK-1	LC43/4	-	-	39760	-	-
2011-023	2455720.34	2011 Jun 7 2012:45	Soyuz-FG	-	I 15000-037	Soyuz TMA-02M	Soyuz 11F732A47 No. 702	ISS 27S	-	GIK-5	LC1	-	-	413	-	-
2011-027	2455734.11	2011 Jun 21 1438:15	Soyuz-U-PVB	-	I 15000-128	Progress M-11M	Progress 7K-TGM No.411	ISS 43P	-	GIK-5	LC1	-	-	396	-	-
2011-028	2455740.17	2011 Jun 27 1600:00	Soyuz-U-PVB	-	760-12 -222 125	Kosmos-2472	Kobal't-M	-	-	GIK-1	LC16/2	-	-	350	-	-
2011-033	2455755.60	2011 Jul 13 0227:04	Soyuz-2-1A	Fregat	Yu15000-008/ST23	Globalstar	Globalstar 2-4	ST23	-	GIK-5	LC31	-	-	1422	-	-
2011-F03	2455798.04	2011 Aug 24 1300:08	Soyuz-U-PVB	-	L 15000-132	Progress M-12M	Progress 7K-TGM No.412	ISS 44P	-	GIK-5	LC1	-	-	190?	-	-
2011-055	2455837.34	2011 Oct 2 2015:14	Soyuz-2-1B	Fregat	770-24 -209 018/1045	Glonass-M42	Uragan-M No. 742	Glonass Blok 45S	-	GIK-1	LC43/4	-	-	19684	-	-
2011-060	2455855.94	2011 Oct 21 1030:26	Soyuz-ST-B	Fregat	B 15000-001/1030	Galileo IOV-1/2	Galileo PFM	VS01/SZ08	-	CSG	ELS	-	-	23712	-	-
2011-062	2455864.92	2011 Oct 30 1011:12	Soyuz-U-PVB	-	I 15000-129	Progress M-13M	Progress 7K-TGM No.413	ISS 45P	-	GIK-5	LC1	-	-	514	-	-
2011-067	2455879.68	2011 Nov 14 0414:03	Soyuz-FG	-	I 15000-038	Soyuz TMA-22	Soyuz 11F732A17 No. 232	ISS 28S	-	GIK-5	LC1	-	-	413	-	-
2011-071	2455893.85	2011 Nov 28 0825:58	Soyuz-2-1B	Fregat	780-31 -219 019/1046	Glonass-M46	Uragan-M No. 746	-	-	GIK-1	LC43/4	-	-	19686	-	-
2011-076	2455912.59	2011 Dec 17 0203:48	Soyuz-ST-A	Fregat	Sh15000-002/1024	Pleiades/Elisa	Elisa 1	VS02/SZ02	-	CSG	ELS	-	-	708	-	-
2011-078	2455917.05	2011 Dec 21 1316:15	Soyuz-FG	-	L 15000-039	Soyuz TMA-03M	Soyuz 11F732A47 No. 703	ISS 29S	-	GIK-5	LC1	-	-	408	-	-
2011-F04	2455919.01	2011 Dec 23 1208:10	Soyuz-2-1B	Fregat	780-75 -164 006/1042	Meridian No. 15?	Meridian No. 15L?	-	-	GIK-1	LC43/4	-	-	200?	-	-
2011-080	2455924.21	2011 Dec 28 1709:02	Soyuz-2-1A	Fregat	B 15000-007/1027	Globalstar	Globalstar 2-5	ST24	-	GIK-5	LC31	-	-	1422	-	-
2012-004	2455952.46	2012 Jan 25 2306:40	Soyuz-U-PVB	-	I 15000-127	Progress M-14M	Progress 7K-TGM No.414	ISS 46P	-	GIK-5	LC1	-	-	421	-	-
2012-015	2456038.04	2012 Apr 20 1250:24	Soyuz-U-PVB	-	L 15000-135	Progress M-15M	Progress 7K-TGM No.415	ISS 47P	-	GIK-5	LC31	-	-	458	-	-
2012-022	2456062.63	2012 May 15 0301:23	Soyuz-FG	-	L 15000-041	Soyuz TMA-04M	Soyuz 11F732A47 No. 705	ISS 30S	-	GIK-5	LC1	-	-	429	-	-
2012-024	2456065.09	2012 May 17 1405:00	Soyuz-U-PVB	-	780-31 -229 131	Kosmos-2480	Kobal't-M	-	-	GIK-1	LC16/2	-	-	305	-	-
2012-037	2456123.61	2012 Jul 15 0240:03	Soyuz-FG	-	L 15000-042	Soyuz TMA-05M	Soyuz 11F732A47 No. 706	ISS 31S	-	GIK-5	LC1	-	-	429	-	-
2012-039	2456130.78	2012 Jul 22 0641:39	Soyuz-FG	Fregat	B 15000-033	Kanopus/Belka	Soyuz Rideshare 2	-	-	GIK-5	LC31	-	-	839	-	-
2012-042	2456141.32	2012 Aug 1 1935:13	Soyuz-U-PVB	-	L 15000-134	Progress M-16M	Progress 7K-TGM No.416	ISS 48P	-	GIK-5	LC1	-	-	429	-	-
2012-049	2456188.19	2012 Sep 17 1628:40	Soyuz-2-1A	Fregat	L 15000-012/1037	Metop B	METOP B	ST25	-	GIK-5	LC31	-	-	822	-	-
2012-055	2456213.26	2012 Oct 12 1815:00	Soyuz-ST-B	Fregat	B 15000-002/1031	Galileo IOV-3/4	Galileo FM3	VS03/SZ09	-	CSG	ELS	-	-	23727	-	-
2012-058	2456223.95	2012 Oct 23 1051:11	Soyuz-FG	-	L 15000-044	Soyuz TMA-06M	Soyuz 11F732A47 No. 707	ISS 32S	-	GIK-5	LC31	-	-	424	-	-
2012-060	2456231.82	2012 Oct 31 0741:18	Soyuz-U-PVB	-	L 15000-136	Progress M-17M	Progress 7K-TGM No. 417	ISS 49P	-	GIK-5	LC1	-	-	424	-	-
2012-063	2456245.99	2012 Nov 14 1142:46	Soyuz-2-1A	Fregat	770-46 -267 016/1034	Meridian No. 16L	Meridian No. 16L	-	-	GIK-1	LC43/4	-	-	39740	-	-
2012-068	2456263.59	2012 Dec 2 0202:50	Soyuz-ST-A	Fregat	Sh15000-001/1020	Pleiades 1B	Pleiades HR-2	VZ04/SZ01	-	CSG	ELS	-	-	700	-	-
2012-074	2456281.01	2012 Dec 19 1212:35	Soyuz-FG	-	L 15000-040	Soyuz TMA-07M	Soyuz 11F732A47 No. 704A	ISS 33S	-	GIK-5	LC1	-	-	422	-	-
2013-005	2456330.17	2013 Feb 6 1604:24	Soyuz-2-1A	Fregat	I 15000-011/1029	Globalstar	Globalstar 2-6	ST26	-	GIK-5	LC31	-	-	1419	-	-
2013-007	2456335.11	2013 Feb 11 1441:47	Soyuz-U-PVB	-	L 15000-137	Progress M-18M	Progress 7K-TGM No. 418	ISS 50P	-	GIK-5	LC1	-	-	419	-	-
2013-013	2456380.36	2013 Mar 28 2043:20	Soyuz-FG	-	E 15000-043	Soyuz TMA-08M	Soyuz 11F732A47 No. 708	ISS 34S	-	GIK-5	LC1	-	-	418	-	-
2013-015	2456401.92	2013 Apr 19 1000:00	Soyuz-2-1A	-	L 15000-014	Bion-M No. 1	Bion-M No. 1/Cubesats	-	-	GIK-5	LC31	-	-	589	-	-
2013-017	2456406.93	2013 Apr 24 1012:16	Soyuz-U-PVB	-	L 15000-138	Progress M-19M	Progress 7K-TGM No. 419	ISS 51P	-	GIK-5	LC1	-	-	456	-	-
2013-019	2456408.72	2013 Apr 26 0523:41	Soyuz-2-1B	Fregat	780-31- 220 021/1047	Glonass-M47	Uragan-M No. 747	-	-	GIK-1	LC43/4	-	-	19745	-	-
2013-025	2456441.36	2013 May 28 2031:24	Soyuz-FG	-	E 15000-045	Soyuz TMA-09M	Soyuz 11F732A47 No. 709?	ISS 35S	-	GIK-5	LC1	-	-	421	-	-
2013-028	2456451.28	2013 Jun 7 1837:59	Soyuz-2-1B	-	780-31- 215 007	Kosmos-2486	Persona No. 2	-	-	GIK-1	LC43/4	-	-	738	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2013-030	2456469.23	2013 Jun 25 1728:48	Soyuz-2-1B	-	I 15000-013	Resurs-P No. 1	Resurs-P No. 1	-	-	GIK-5	LC31	-	-	484	-	-
2013-031	2456469.31	2013 Jun 25 1927:03	Soyuz-ST-B	Fregat	E 15000-003/1041	O3b Mission 1	O3b SV1/SV2/SV4/SV5	VS05/SZ11	-	CSG	ELS	-	-	8351	-	-
2013-039	2456501.36	2013 Jul 27 2045:08	Soyuz-U-PVB	-	L 15000-130	Progress M-20M	Progress 7K-TGM No. 420	ISS 52P	-	GIK-5	LC31	-	-	421	-	-
2013-054	2456561.37	2013 Sep 25 2058:50	Soyuz-FG	-	E 15000-046	Soyuz TMA-10M	Soyuz 11F732A47 No. 710	ISS 36S	-	GIK-5	LC1	-	-	417	-	-
2013-061	2456603.68	2013 Nov 7 0414:15	Soyuz-FG	-	T 15000-048	Soyuz TMA-11M	Soyuz 11F732A47 No. 711	ISS 37S	-	GIK-5	LC1	-	-	418	-	-
2013-069	2456622.37	2013 Nov 25 2053:06	Soyuz-U-PVB	-	E 15000-133	Progress M-21M	Progress 7K-TGM No. 421	ISS 53P	-	GIK-5	LC31	-	-	423	-	-
2013-074	2456645.88	2013 Dec 19 0912:18	Soyuz-ST-B	Fregat	E 15000-004/1040	Gaia	Gaia	VS06/SZ12	-	CSG	ELS	-	-	150000	-	-
2013-078	2456655.02	2013 Dec 28 1230:00	Soyuz-2-1V	Volga	760-58- 002/001	Aist-1/SKRL-756	Aist-1	-	-	GIK-1	LC43/4	-	-	627	-	-
2014-005	2456694.18	2014 Feb 5 1623:33	Soyuz-U-PVB	-	E 15000-139	Progress M-22M	Progress 7K-TGM No. 422	ISS 54P	-	GIK-5	LC1	-	-	422	-	-
2014-012	2456740.45	2014 Mar 23 2254:03	Soyuz-2-1B	Fregat	780-85- 168/112-01	Glonass-M54	Uragan-M No. 754	-	-	GIK-1	LC43/4	-	-	19678	-	-
2014-013	2456742.39	2014 Mar 25 2117:23	Soyuz-FG	-	T 15000-047	Soyuz TMA-12M	Soyuz 11F732A47 No. 712	ISS 38S	-	GIK-5	LC1	-	-	488	-	-
2014-016	2456751.38	2014 Apr 3 2102:26	Soyuz-ST-A	Fregat	B 15000-004/1038	Sentinel 1A	Sentinel 1A	VS07/SZ04	-	CSG	ELS	-	-	701	-	-
2014-018	2456757.14	2014 Apr 9 1526:27	Soyuz-U-PVB	-	T 15000-141	Progress M-23M	Progress 7K-TGM No. 427	ISS 55P	-	GIK-5	LC1	-	-	419	-	-
2014-021	2456764.18	2014 Apr 16 1620:00	Soyuz-U-PVB	-	E 15000-143	Egyptsat-2	Egyptsat-2	-	-	GIK-5	LC31	-	-	718	-	-
2014-025	2456784.08	2014 May 6 1349:35	Soyuz-2-1A	-	760-58- 163 019	Kosmos-2495	Kobal't-M No. 564	-	-	GIK-1	LC43/4	-	-	285	-	-
2014-031	2456806.33	2014 May 28 1957:41	Soyuz-FG	-	T 15000-049	Soyuz TMA-13M	Soyuz 11F732A47 No. 713	ISS 39S	-	GIK-5	LC1	-	-	417	-	-
2014-032	2456823.22	2014 Jun 14 1716:48	Soyuz-2-1B	Fregat	T 15000-023/112-02	Glonass-M55	Uragan-M No. 755	-	-	GIK-1	LC43/4	-	-	19664	-	-
2014-037	2456847.17	2014 Jul 8 1558:28	Soyuz-2-1B	Fregat	L 15000-011/1025	Meteor-M No. 2	Soyuz Rideshare 3	-	-	GIK-5	LC31	-	-	828	-	-
2014-038	2456849.29	2014 Jul 10 1855:56	Soyuz-ST-B	Fregat	E 15000-005/1032	O3b Mission 2	O3b SV3/SV6/SV7/SV8	VS08/SZ13	-	CSG	ELS	-	-	8347	-	-
2014-041	2456857.37	2014 Jul 18 2050:00	Soyuz-2-1A	-	T 15000-020	Foton-M No. 4	Foton-M No. 4	-	-	GIK-5	LC31	-	-	808	-	-
2014-042	2456862.41	2014 Jul 23 2144:44	Soyuz-U-PVB	-	T 15000-140	Progress M-24M	Progress 7K-TGM No. 423	ISS 56P	-	GIK-5	LC1	-	-	439	-	-
2014-050	2456892.02	2014 Aug 22 1227:11	Soyuz-ST-B	Fregat	E 15000-006/1039	Galileo FOC 1/2	GalileoSat 5-6	VS09/SZ14	-	CSG	ELS	-	-	26262	-	-
2014-057	2456926.35	2014 Sep 25 2025:00	Soyuz-FG	-	T 15000-050	Soyuz TMA-14M	Soyuz 11F732A47 No. 714	ISS 40S	-	GIK-5	LC1	-	-	328	-	-
2014-067	2456959.80	2014 Oct 29 0709:43	Soyuz-2-1A	-	G 15000-021	Progress M-25M	Progress 7K-TGM No. 424	ISS 57P	-	GIK-5	LC31	-	-	416	-	-
2014-069	2456960.57	2014 Oct 30 0142:52	Soyuz-2-1A	Fregat	760-58- 174 013/1026	Meridian No. 17L	Meridian No. 17L	-	-	GIK-1	LC43/4	-	-	39753	-	-
2014-074	2456985.38	2014 Nov 23 2101:13	Soyuz-FG	-	T 15000-051	Soyuz TMA-15M	Soyuz 11F732A47 No. 715	ISS 41S	-	GIK-5	LC31	-	-	417	-	-
2014-075	2456992.41	2014 Nov 30 2152:26	Soyuz-2-1B	Fregat	G 15000-026/1044	Kosmos-2501	Glonass-K No. 12L	-	-	GIK-1	LC43/4	-	-	19658	-	-
2014-083	2457010.28	2014 Dec 18 1837:00	Soyuz-ST-B	Fregat	T 15000-007/133-01	O3b Mission 3	O3b SV9/SV10/SV11/SV12	VS10/SZ15	-	CSG	ELS	-	-	12776	-	-
2014-086	2457016.63	2014 Dec 25 0301:13	Soyuz-2-1B	-	780-31- 199 005	Kosmos-2502	Lotos-S2 No. 802	-	-	GIK-1	LC43/4	-	-	913	-	-
2014-087	2457018.29	2014 Dec 26 1855:50	Soyuz-2-1B	-	L 15000-009	Resurs-P No. 2	Resurs-P No. 2	-	-	GIK-5	LC31	-	-	478	-	-
2015-008	2457070.96	2015 Feb 17 1100:17	Soyuz-U-PVB	-	T 15000-144	Progress M-26M	Progress 7K-TGM No. 425	ISS 58P	-	GIK-5	LC1	-	-	403	-	-
2015-009	2457080.96	2015 Feb 27 1101:36	Soyuz-2-1A	-	770-46- 243 010	Kosmos-2503	Bars-M No. 1L	-	-	GIK-1	LC43/4	-	-	579	-	-
2015-016	2457109.32	2015 Mar 27 1942:57	Soyuz-FG	-	G 15000-053	Soyuz TMA-16M	Soyuz 11F732A47 No.716	ISS 42S	-	GIK-5	LC1	-	-	403	-	-
2015-017	2457109.41	2015 Mar 27 2146:18	Soyuz-ST-B	Fregat	T 15000-008/133-02	Galileo FOC 3/4	GalileoSat 7-8	VS11/SZ16	-	CSG	ELS	-	-	23852	-	-
2015-024	2457140.80	2015 Apr 28 0709:50	Soyuz-2-1A	-	G 15000-022	Progress M-27M	Progress 7K-TGM No. 426	ISS 59P	-	GIK-5	LC31	-	-	259	-	-
2015-027	2457179.14	2015 Jun 5 1523:54	Soyuz-2-1A	-	780-72- 171 024	Kosmos-2505	Kobal't-M No. 565 (91L)	-	-	GIK-1	LC43/4	-	-	336	-	-
2015-029	2457197.20	2015 Jun 23 1644:00	Soyuz-2-1B	-	760-58- 156 012	Kosmos-2506	Persona No. 3	-	-	GIK-1	LC43/4	-	-	729	-	-
2015-031	2457206.71	2015 Jul 3 0455:45	Soyuz-U-PVB	-	T 15000-142	Progress M-28M	Progress 7K-TGM No. 428	ISS 60P	-	GIK-5	LC1	-	-	411	-	-
2015-035	2457226.38	2015 Jul 22 2102:45	Soyuz-FG	-	G 15000-052	Soyuz TMA-17M	Soyuz 11F732A47 No. 717	ISS 43S	-	GIK-5	LC1	-	-	411	-	-
2015-043	2457267.69	2015 Sep 2 0437:43	Soyuz-FG	-	G 15000-054	Soyuz TMA-18M	Soyuz 11F732A47 No. 718	ISS 44S	-	GIK-5	LC1	-	-	411	-	-
2015-045	2457276.59	2015 Sep 11 0208:10	Soyuz-ST-B	Fregat	T 15000-009/133-03	Galileo FOC 5/6	GalileoSat 9-10	VS12/SZ17	-	CSG	ELS	-	-	23700	-	-
2015-055	2457297.20	2015 Oct 1 1649:40	Soyuz-U-PVB	-	G 15000-146	Progress M-29M	Progress 7K-TGM No. 429	ISS 61P	-	GIK-5	LC1	-	-	411	-	-
2015-066	2457343.77	2015 Nov 17 0633:41	Soyuz-2-1B	Fregat	760-12- 227 015/1033	Kosmos-2510	EKS No. 1L	-	-	GIK-1	LC43/4	-	-	39301	-	-
2015-071	2457362.09	2015 Dec 5 1408:33	Soyuz-2-1V	Volga	780-31- 001 001/002	Kosmos-2511/2512	Kanopus-ST/KYuA-1	-	-	GIK-1	LC43/4	-	-	694	-	-
2015-076	2457371.96	2015 Dec 15 1103:10	Soyuz-FG	-	G 15000-055	Soyuz TMA-19M	Soyuz 11F732A47 No. 719	ISS 45S	-	GIK-5	LC1	-	-	409	-	-
2015-079	2457373.99	2015 Dec 17 1151:56	Soyuz-ST-B	Fregat	R 15000-010/133-04	Galileo FOC 8/9	GalileoSat 11-12	VS13/SZ18	-	CSG	ELS	-	-	23649	-	-
2015-080	2457377.86	2015 Dec 21 0844:39	Soyuz-2-1A	-	R 15000-026	Progress MS-01	Progress 7K-TGM No. 431	ISS 62P	-	GIK-5	LC31	-	-	409	-	-
2016-008	2457425.51	2016 Feb 7 0021	Soyuz-2-1B	Fregat	G 15000-030/112-03	Kosmos-2513	Uragan-M	-	-	GIK-1	LC43/4	-	-	19680	-	-
2016-016	2457461.29	2016 Mar 13 1856:00	Soyuz-2-1B	-	T 15000-016	Resurs-P No. 3	Resurs-P No. 3	-	-	GIK-5	LC31	-	-	475	-	-
2016-018	2457466.39	2016 Mar 18 2126:39	Soyuz-FG	-	R 15000-057	Soyuz TMA-20M	Soyuz 11F732A47 No. 720	ISS 46S	-	GIK-5	LC1	-	-	421	-	-
2016-020	2457471.90	2016 Mar 24 0942:00	Soyuz-2-1A	-	760-58- 161	Kosmos-2515	Bars-M No. 2	-	-	GIK-1	LC43/4	-	-	597	-	-
2016-022	2457479.18	2016 Mar 31 1623:57	Soyuz-2-1A	-	R 15000-023	Progress MS-02	Progress 7K-TGM No. 432	ISS 63P	-	GIK-5	LC31	-	-	409	-	-
2016-025	2457504.38	2016 Apr 25 2102:13	Soyuz-ST-A	Fregat	R 15000-005/133-08	Sentinel 1B	Sentinel 1B/Microscope	VS14/SZ22	-	CSG	ELS	-	-	715	-	-
2016-026	2457506.58	2016 Apr 28 0201:21	Soyuz-2-1A	Volga	R 15000-001/006	Lomonosov	Lomonosov/Aist-2D	-	-	VOST	PU1S	-	-	496	-	-
2016-030	2457532.87	2016 May 24 0848:43	Soyuz-ST-B	Fregat	R 15000-011/133-05	Galileo FOC 10/11	GalileoSat 13-14	VS15/SZ19	-	CSG	ELS	-	-	23684	-	-
2016-032	2457537.86	2016 May 29 0844:35	Soyuz-2-1B	Fregat	G 15000-027/112-04	Kosmos-2516	Uragan-M No. 753	-	-	GIK-1	LC43/4	-	-	19887	-	-
2016-044	2457576.57	2016 Jul 7 0136:40	Soyuz-FG	-	R 15000-056	Soyuz MS-01	Soyuz 11F732A48 No. 731	ISS 47S	-	GIK-5	LC1	-	-	409	-	-
2016-045	2457586.40	2016 Jul 16 2141:46	Soyuz-U-PVB	-	G 15000-147	Progress MS-03	Progress 7K-TGM No. 433	ISS 64P	-	GIK-5	LC31	-	-	411	-	-
2016-063	2457680.84	2016 Oct 19 0805:14	Soyuz-FG	-	R 15000-059	Soyuz MS-02	Soyuz 11F732A48 No. 732	ISS 48S	-	GIK-5	LC31	-	-	411	-	-
2016-070	2457710.35	2016 Nov 17 2020:13	Soyuz-FG	-	R 15000-060	Soyuz MS-03	Soyuz 11F732A48 No. 733	ISS 49S	-	GIK-5	LC1	-	-	410	-	-
2016-F02	2457724.12	2016 Dec 1 1451:52	Soyuz-U-PVB	-	P 15000-148	Progress MS-04	Progress 7K-TGM No. 434	ISS 65P	-	GIK-5	LC1	-	-	190	-	-
2017-006	2457781.54	2017 Jan 28 0103:34	Soyuz-ST-B	Fregat	R 15000-012/133-07	Hispasat 36W-1	Hispasat 36W-1	VS16/SZ20	-	CSG	ELS	-	-	35882	-	-
2017-010	2457806.75	2017 Feb 22 0558:33	Soyuz-U-PVB	-	T 15000-145	Progress MS-05	Progress 7K-TGM No. 435	ISS 66P	-	GIK-5	LC1	-	-	409	-	-
2017-020	2457863.80	2017 Apr 20 0713:43	Soyuz-FG	-	U 15000-065	Soyuz MS-04	Soyuz 11F732A48 No. 735	ISS 50S	-	GIK-5	LC1	-	-	409	-	-
2017-026	2457892.00	2017 May 18 1154:53	Soyuz-ST-A	Fregat	R 15000-007/133-09	SES-15	SES-15	VS17/SZ23	-	CSG	ELS	-	-	44510	-	-
2017-027	2457898.77	2017 May 25 0633:41	Soyuz-2-1B	Fregat	780-72- 183/111-301	Kosmos-2518	EKS No. 2L	-	-	GIK-1	LC43/4	-	-	39134	-	-
2017-033	2457918.89	2017 Jun 14 0920:13	Soyuz-2-1A	-	U 15000-028	Progress MS-06	Progress 7K-TGM No. 436	ISS 67P	-	GIK-5	LC31	-	-	409	-	-
2017-037	2457928.25	2017 Jun 23 1804:33	Soyuz-2-1V	Volga	780-72- 003	Kosmos-2519	Nivelir No. 1?	-	-	GIK-1	LC43/4	-	-	678	-	-
2017-042	2457948.78	2017 Jul 14 0636:49	Soyuz-2-1A	Fregat	T 15000-018/122-02	Kanopus-V-IK/Cubesats	Soyuz Rideshare 4	-	-	GIK-5	LC31	-	-	608	-	-
2017-043	2457963.15	2017 Jul 28 1541:12	Soyuz-FG	-	R 15000-058	Soyuz MS-05	Soyuz 11F732A48 No. 736	ISS 51S	-	GIK-5	LC1	-	-	408	-	-
2017-054	2458009.39	2017 Sep 12 2117:02	Soyuz-FG	-	U 15000-063	Soyuz MS-06	Soyuz 11F732A48 No. 734	ISS 52S	-	GIK-5	LC1	-	-	408	-	-
2017-055	2458018.50	2017 Sep 22 0002:32	Soyuz-2-1B	Fregat	U 15000-039/112-05	Kosmos-2522	Uragan-M No. 752	-	-	GIK-1	LC43/4	-	-	19923	-	-
2017-065	2458040.87	2017 Oct 14 0846:53	Soyuz-2-1A	-	U 15000-029	Progress MS-07	Progress 7K-TGM No. 437	ISS 68P	-	GIK-5	LC31	-	-	435	-	-
2017-F05	2458085.74	2017 Nov 28 0541:46	Soyuz-2-1B	Fregat	N 15000-001/122-01	Meteor-M No. 2-1	Soyuz Rideshare 5	-	-	VOST	PU1S	-	-	202	-	-
2017-076	2458089.95	2017 Dec 2 1043:26	Soyuz-2-1B	-	770-69- 203	Kosmos-2524	Lotos-S2 No. 803	-	-	GIK-1	LC43/4	-	-	910	-	-
2017-081	2458104.81	2017 Dec 17 0721:01	Soyuz-FG	-	R 15000-061	Soyuz MS-07	Soyuz 11F732A48 No. 737	ISS 53S	-	GIK-5	LC1	-	-	408	-	-
2018-014	2458150.59	2018 Feb 1 0207:18	Soyuz-2-1A	Fregat	N 15000-002/122-03	Kanopus-V-3,4	Soyuz Rideshare 6	-	-	VOST	PU1S	-	-	591	-	-
2018-019	2458162.84	2018 Feb 13 0813:33	Soyuz-2-1A	-	U 15000-030	Progress MS-08	Progress 7K-TGM No. 438	ISS 69P	-	GIK-5	LC31	-	-	409	-	-
2018-024	2458187.22	2018 Mar 9 1710:06	Soyuz-ST-B	Fregat	R 15000-013/133-06	O3b Mission 4	O3b FM13/14/15/16	VS18/SZ21	-	CSG	ELS	-	-	8429	-	-
2018-026	2458199.24	2018 Mar 21 1744:23	Soyuz-FG	-	N 15000-066	Soyuz MS-08	Soyuz 11F732A48 No. 738	ISS 54S	-	GIK-5	LC1	-	-	409	-	-
2018-028	2458207.24	2018 Mar 29 1738:42	Soyuz-2-1V	-	780-72- 005	Kosmos-2525	EMKA	-	-	GIK-1	LC43/4	-	-	318	-	-
2018-051	2458275.97	2018 Jun 6 1112:39	Soyuz-FG	-	U 15000-064	Soyuz MS-09	Soyuz 11F732A48 No. 739	ISS 55S	-	GIK-5	LC1	-	-	409	-	-
2018-053	2458286.41	2018 Jun 16 2146:28	Soyuz-2-1B	Fregat	L 15000-020/112-06	Kosmos-2527	Uragan-M No. 756	-	-	GIK-1	LC43/4	-	-	19678	-	-
2018-058	2458309.41	2018 Jul 9 2151:34	Soyuz-2-1A	-	N 15000-033	Progress MS-09	Progress 7K-TGM No. 439	ISS 70P	-	GIK-5	LC31	-	-	410	-	-
2018-F01	2458402.86	2018 Oct 11 0840:15	Soyuz-FG	-	U 15000-062	Soyuz MS-10	Soyuz 11F732A48 No. 740	ISS 56S	-	GIK-5	LC1	-	-	93	400	-
2018-082	2458416.51	2018 Oct 25 0015:18	Soyuz-2-1B	-	780-31- 216	Kosmos-2528	Lotos-S2 No. 804	-	-	GIK-1	LC43/4	-	-	910	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-086	2458426.35	2018 Nov 3 2017:53	Soyuz-2-1B	Fregat	R 15000-036/112-08	Kosmos-2529	Uragan-M No. 757	Glonass Blok 57S	-	GIK-1	LC43/4	-	-	19713	-	-
2018-087	2458429.53	2018 Nov 7 0047:28	Soyuz-ST-B	Fregat	U 15000-014/133-14	MetOp-C	MetOp-C	VS19/SZ27	-	CSG	ELS	-	-	884	-	-
2018-091	2458439.26	2018 Nov 16 1814:08	Soyuz-FG	-	N 15000-068	Progress MS-10	Progress 7K-TGM No. 440	ISS 71P	-	GIK-5	LC1	-	-	411	-	-
2018-098	2458455.98	2018 Dec 3 1131:52	Soyuz-FG	-	N 15000-067	Soyuz MS-11	Soyuz 11F732A48 No. 741	ISS 57S	-	GIK-5	LC1	-	-	419	-	-
2018-106	2458472.19	2018 Dec 19 1637:14	Soyuz-ST-A	Fregat	U 15000-009/133-10	CSO 1	CSO 1	VS20/SZ26	-	CSG	ELS	-	-	815	-	-
2018-111	2458479.59	2018 Dec 27 0207:18	Soyuz-2-1A	Fregat	Ya15000-003/122-06	Kanopus-V-5,6	Soyuz Rideshare 7	-	-	VOST	PU1S	-	-	589	-	-
2019-008	2458536.20	2019 Feb 21 1647:14	Soyuz-2-1B	Fregat	E 15000-024/112-07	EgyptSat-A	EgyptSat-A	-	-	GIK-5	LC31	-	-	659	-	-
2019-010	2458542.40	2019 Feb 27 2137:00	Soyuz-ST-B	Fregat	U 15000-016/133-15	OneWeb F6	OneWeb F6	VS21/SZ29	-	CSG	ELS	-	-	1227	-	-
2019-013	2458557.30	2019 Mar 14 1914:09	Soyuz-FG	-	Ya15000-070	Soyuz MS-12	Soyuz 11F732A48 No. 742	ISS 58S	-	GIK-5	LC1	-	-	421	-	-
2019-019	2458577.96	2019 Apr 4 1101:35	Soyuz-2-1A	-	Ya15000-036	Progress MS-11	Progress 7K-TGM No. 441	ISS 72P	-	GIK-5	LC31	-	-	410	-	-
2019-020	2458578.21	2019 Apr 4 1703:37	Soyuz-ST-B	Fregat	N 15000-017/133-17	O3b Mission 5	O3b FM17/18/19/20	VS22/SZ33	-	CSG	ELS	-	-	8148?	-	-
2019-030	2458630.77	2019 May 27 0623:00	Soyuz-2-1B	Fregat	Ya15000-053/112-09	Kosmos-2534	Uragan-M No. 758	-	-	GIK-1	LC43/4	-	-	19696	-	-
2019-038	2458669.74	2019 Jul 5 0541:46	Soyuz-2-1B	Fregat	Ya15000-002/122-04	Meteor-M 2-2	Soyuz Rideshare 8	-	-	VOST	PU1S	-	-	816	-	-
2019-039	2458675.22	2019 Jul 10 1714	Soyuz-2-1V	Volga	780-72 -004/005	Kosmos-2535/2538	-	-	-	GIK-1	LC43/4	-	-	655	-	-
2019-041	2458685.19	2019 Jul 20 1628:20	Soyuz-FG	-	N 15000-069	Soyuz MS-13	Soyuz 11F732A48 No. 746	ISS 59S	-	GIK-5	LC1	-	-	423	-	-
2019-046	2458694.75	2019 Jul 30 0557	Soyuz-2-1A	Fregat	780-21 -117/1036	Meridian No. 18L	Meridian No. 18L	-	-	GIK-1	LC43/4	-	-	39741	-	-
2019-047	2458696.01	2019 Jul 31 1210:46	Soyuz-2-1A	-	N 15000-035	Progress MS-12	Progress 7K-TGM No. 442	ISS 73P	-	GIK-5	LC31	-	-	425	-	-
2019-055	2458717.65	2019 Aug 22 0338:31	Soyuz-2-1A	-	Ya15000-037	Soyuz MS-14	Soyuz 11F732A48 No. 743	ISS 60S	-	GIK-5	LC31	-	-	421	-	-
2019-064	2458752.08	2019 Sep 25 1357:43	Soyuz-FG	-	Ya15000-071	Soyuz MS-15	Soyuz 11F732A48 No. 744	ISS 61S	-	GIK-5	LC1	-	-	424	-	-
2019-065	2458752.82	2019 Sep 26 0746	Soyuz-2-1B	Fregat	780-72 -176/111-302	Kosmos-2541	EKS No. 3L?	-	-	GIK-1	LC43/4	-	-	38994	-	-
2019-079	2458813.24	2019 Nov 25 1752	Soyuz-2-1V	Volga	780-21 -121/004	Kosmos-2542	Nivelir?	-	-	GIK-1	LC43/4	-	-	915	-	-
2019-085	2458823.90	2019 Dec 6 0934:11	Soyuz-2-1A	-	N 15000-034	Progress MS-13	Progress 7K-TGM No. 443	ISS 74P	-	GIK-5	LC31	-	-	423	-	-
2019-088	2458828.87	2019 Dec 11 0854	Soyuz-2-1B	Fregat	N 15000-046/112-10	Kosmos-2544	Uragan-M No. 759	-	-	GIK-1	LC43/3	-	-	19715	-	-
2019-092	2458835.87	2019 Dec 18 0854	Soyuz-ST-A	Fregat	R 15000-008/133-12	CSG-1/CHEOPS	CSG-1/CHEOPS	VS23/SZxx	-	CSG	ELS	-	-	712	-	-
2020-008	2458886.40	2020 Feb 6 2142:41	Soyuz-2-1B	Fregat	U 15000-048/123-01	OneWeb L2	OneWeb L2	ST27	-	GIK-5	LC31	-	-	1249	-	-
2020-015	2458899.85	2020 Feb 20 0824:54	Soyuz-2-1A	Fregat	780-21- 118/111-303	Meridian No. 19L	Meridian No. 19L	-	-	GIK-1	LC43/3	-	-	39723	-	-
2020-018	2458925.27	2020 Mar 16 1828:10	Soyuz-2-1B	Fregat	760-58- 145/112-11	Kosmos-2545	Uragan-M No. 760	-	-	GIK-1	LC43/4	-	-	22328	-	-
2020-020	2458930.21	2020 Mar 21 1706:58	Soyuz-2-1B	Fregat	N 15000-049/123-02	OneWeb L3	OneWeb L3	ST28	-	GIK-5	LC31	-	-	1248	-	-
2020-023	2458948.84	2020 Apr 9 0805:06	Soyuz-2-1A	-	V 15000-042	Soyuz MS-16	Soyuz 11F732A48 No. 745	ISS 62S	-	GIK-5	LC31	-	-	423	-	-
2020-026	2458964.58	2020 Apr 25 0151:41	Soyuz-2-1A	-	Ya15000-038	Progress MS-14	Progress 7K-TGM No. 448	ISS 75P	-	GIK-5	LC31	-	-	422	-	-
2020-031	2458991.81	2020 May 22 0731:17	Soyuz-2-1B	Fregat	- /?	Kosmos-2546	Kupol No. 4	-	-	GIK-1	LC43/4	-	-	38678	-	-
2020-050	2459054.10	2020 Jul 23 1426:22	Soyuz-2-1A	-	Ya15000-040	Progress MS-15	Progress 7K-TGM No. 444	ISS 76P	-	GIK-5	LC31	-	-	422	-	-
2020-068	2459120.97	2020 Sep 28 1120:33	Soyuz-2-1B	Fregat	T 15000-025/112-501	Gonets-M Blok 16	Gonets-M No. 27/28/29	-	-	GIK-1	LC43/4	-	-	1514	-	-
2020-072	2459136.74	2020 Oct 14 0545:04	Soyuz-2-1A	-	Kh15000-045	Soyuz MS-17	Soyuz 11F732A48 No. 747	ISS 63S	-	GIK-5	LC31	-	-	422	-	-
2020-075	2459148.30	2020 Oct 25 1908	Soyuz-2-1B	Fregat	G 15000-031/112-12	Glonass-K No. 15L	Glonass-K No. 15L	-	-	GIK-1	LC43/4	-	-	19685	-	-
2020-090	2459185.56	2020 Dec 2 0133:28	Soyuz-ST-A	Fregat	N 15000-010/133-18	FalconEye 2	FalconEye 2	VS24/SZxx	-	CSG	ELS	-	-	616	-	-
2020-091	2459186.55	2020 Dec 3 0114	Soyuz-2-1B	Fregat	N 15000-045/112-502	Gonets-M Blok 17	Gonets-M No. 30/31/32	-	-	GIK-1	LC43/4	-	-	1513	-	-
2020-100	2459202.02	2020 Dec 18 1226:27	Soyuz-2-1B	Fregat	V 15000-004/123-08	OneWeb L4	OneWeb L4	ST29	-	VOST	PU1S	-	-	1225	-	-
2020-104	2459213.20	2020 Dec 29 1642:07	Soyuz-ST-A	Fregat	R 15000-006/133-11?	CSO 2	CSO 2	VS25/SZxx	-	CSG	ELS	-	-	489	-	-
2021-008	2459248.36	2021 Feb 2 2045:28	Soyuz-2-1B	-	-	Kosmos-2549	Lotos-S No. 5	-	-	GIK-1	LC43/4	-	-	912	-	-
2021-011	2459260.70	2021 Feb 15 0445:06	Soyuz-2-1A	-	V 15000-041	Progress MS-16	Progress 7K-TGM No. 445	ISS 77P	-	GIK-5	LC31	-	-	422	-	-
2021-016	2459273.79	2021 Feb 28 0655:01	Soyuz-2-1B	Fregat	N 15000-032/122-07	Arktika-M No. 1	Arktika-M No. 1	-	-	GIK-5	LC31	-	-	39756	-	-
2021-022	2459295.75	2021 Mar 22 0607:12	Soyuz-2-1A	Fregat	V 15000-044/122-05	CAS500-1	Soyuz Rideshare 9	-	-	GIK-5	LC31	-	-	608	-	-
2021-025	2459298.62	2021 Mar 25 0247:33	Soyuz-2-1B	Fregat	V 15000-005/123-09	OneWeb L5	OneWeb L5	ST30	-	VOST	PU1S	-	-	1235	-	-
2021-029	2459313.82	2021 Apr 9 0742:41	Soyuz-2-1A	-	Kh15000-046	Soyuz MS-18	Soyuz 11F732A48 No. 748	ISS 64S	-	GIK-5	LC31	-	-	424	-	-
2021-031	2459330.43	2021 Apr 25 2214:08	Soyuz-2-1B	Fregat	V 15000-006/123-11	OneWeb L6	OneWeb L6	ST31	-	VOST	PU1S	-	-	1214	-	-
2021-045	2459363.24	2021 May 28 1738:39	Soyuz-2-1B	Fregat	V 15000-007/123-10	OneWeb L7	OneWeb L7	ST32	-	VOST	PU1S	-	-	1207	-	-
2021-056	2459391.33	2021 Jun 25 1950:00	Soyuz-2-1B	-	-	Kosmos-2550	Pion-NKS No. 901	-	-	GIK-1	LC43/4	-	-	482	-	-
2021-057	2459395.48	2021 Jun 29 2327:20	Soyuz-2-1A	-	B 15000-043	Progress MS-17	Progress 7K-TGM No. 446	ISS 78P	-	GIK-5	LC31	-	-	424	-	-
2021-060	2459397.03	2021 Jul 1 1248:33	Soyuz-2-1B	Fregat	V 15000-008/123-12	OneWeb L8	OneWeb L8	ST33	-	VOST	PU1S	-	-	1204	-	-
2021-075	2459448.43	2021 Aug 21 2213:40	Soyuz-2-1B	Fregat	N 15000-050/123-03	OneWeb L9	OneWeb L9	ST34	-	GIK-5	LC31	-	-	1216	-	-
2021-081	2459467.33	2021 Sep 9 1959:47	Soyuz-2-1V	-	-	Kosmos-2551	EO-MKA No. 1?	-	-	GIK-1	LC43/4	-	-	307	-	-
2021-083	2459472.26	2021 Sep 14 1807:19	Soyuz-2-1B	Fregat	N 15000-051/123-05	OneWeb L10	OneWeb L10	ST35	-	GIK-5	LC31	-	-	1213	-	-
2021-089	2459492.87	2021 Oct 5 0855:02	Soyuz-2-1A	-	Kh15000-047	Soyuz MS-19	Soyuz 11F732A48 No. 749	ISS 65S	-	GIK-5	LC31	-	-	424	-	-
2021-090	2459501.90	2021 Oct 14 0940:10	Soyuz-2-1B	Fregat	Kh15000-009/123-14	OneWeb L11	OneWeb L11	ST36	-	VOST	PU1S	-	-	1208	-	-
2021-098	2459515.50	2021 Oct 28 0000:32	Soyuz-2-1A	-	S 15000-049	Progress MS-18	Progress 7K-TGM No. 447	ISS 79P	-	GIK-5	LC31	-	-	424	-	-
2021-111	2459543.05	2021 Nov 24 1306:35	Soyuz-2-1B	-	Ya15000-054	Prichal	Progress M-UM No. 303	ISS 6R	-	GIK-5	LC31	-	-	423	-	-
2021-113	2459543.55	2021 Nov 25 0109:13	Soyuz-2-1B	Fregat	- /111-305	Kosmos-2552	Kupol No. 5	-	-	GIK-1	LC43/4	-	-	38774	-	-
2021-116	2459553.51	2021 Dec 5 0019:20	Soyuz-ST-B	Fregat	U 15000-015/133-13	Galileo FOC M9	GalileoSat-27/28	VS26/SZxx	-	CSG	ELS	-	-	23623	-	-
2021-119	2459556.82	2021 Dec 8 0738:15	Soyuz-2-1A	-	S 15000-053	Soyuz MS-20	Soyuz 11F732A48 No. 752	ISS 66S	-	GIK-5	LC31	-	-	422	-	-
2021-132	2459576.05	2021 Dec 27 1310:37	Soyuz-2-1B	Fregat	N 15000-052/123-04	OneWeb L12	OneWeb L12	ST37	-	GIK-5	LC31	-	-	1220	-	-
2022-011	2459615.79	2022 Feb 5 0700:00	Soyuz-2-1A	Fregat	780-72-195/ 111-401	Kosmos-2553	Neitron 1	-	-	GIK-1	LC43/4	-	-	2001	-	-
2022-012	2459621.26	2022 Feb 10 1809:37	Soyuz-ST-B	Fregat	Ya15000-018/133-19	OneWeb L13	OneWeb L13	VS27/SZxx	-	CSG	ELS	-	-	1231	-	-
2022-014	2459625.68	2022 Feb 15 0425:40	Soyuz-2-1A	-	S 15000-056	Progress MS-19	Progress 7K-TGM No. 449	ISS 80P	-	GIK-5	LC31	-	-	422	-	-
2022-028	2459657.16	2022 Mar 18 1555:18	Soyuz-2-1A	-	S 15000-050	Soyuz MS-21	Soyuz 11F732A48 No. 750	ISS 67S	-	GIK-5	LC31	-	-	421	-	-
2022-030	2459661.03	2022 Mar 22 1248:22	Soyuz-2-1A	Fregat	760-97-216/ 111-30x	Meridian No. 20L	Meridian No. 20L	-	-	GIK-1	LC43/4	-	-	39767	-	-
2022-036	2459676.97	2022 Apr 7 1120:18	Soyuz-2-1B	-	-	Kosmos-2554	Lotos-S1 No. 806	-	-	GIK-1	LC43/3	-	-	911	-	-
2022-054	2459718.84	2022 May 19 0803:32	Soyuz-2-1A	-	780-21-118?	Kosmos-2556	Bars-M No. 3	-	-	GIK-1	LC43/4	-	-	580	-	-
2022-059	2459733.90	2022 Jun 3 0932:54	Soyuz-2-1A	-	Ya15000-128	Progress MS-20	Progress 7K-TGM No. 450	ISS 81P	-	GIK-5	LC31	-	-	421	-	-
2022-075	2459767.89	2022 Jul 7 0918:06	Soyuz-2-1B	Fregat	Ya15000-056/ 112-13	Kosmos-2557	Glonass-K No. 16L	-	-	GIK-1	LC43/4	-	-	19763	-	-
2022-089	2459793.35	2022 Aug 1 2025	Soyuz-2-1V	Volga	-	Kosmos-2558	Nivelir?	-	-	GIK-1	LC43/4?	-	-	455	-	-
2022-096	2459800.74	2022 Aug 9 0552:38	Soyuz-2-1B	Fregat	Ya15000-055/ 123-06	Khayyam	Soyuz Rideshare 10	-	-	GIK-5	LC31	-	-	495	-	-
2022-116	2459844.08	2022 Sep 21 1354:49	Soyuz-2-1A	-	S 15000-051	Soyuz MS-22	Soyuz 11F732A48 No. 751	ISS 68S	-	GIK-5	LC31	-	-	417	-	-
2022-130	2459862.62	2022 Oct 10 0252:32	Soyuz-2-1B	Fregat	Ya15000-056/ 112-16	Kosmos-2559	Glonass-K No. 17L	-	-	GIK-1	LC43/4	-	-	-	-	-
2022-137	2459874.31	2022 Oct 21 1920:15	Soyuz-2-1V	Volga	-	Kosmos-2561/2562	14F164/14F172	-	-	GIK-1	LC43/4	-	-	-	-	-
2022-139	2459875.33	2022 Oct 22 1957:09	Soyuz-2-1B	Fregat	Kh15000-011/ 142-503	Skif-D/Gonets	Skif-D/Gonets	-	-	VOST	PU1S	-	-	-	-	-
2022-140	2459878.51	2022 Oct 26 0020:09	Soyuz-2-1A	-	S 15000-057	Progress MS-21	Progress 7K-TGM No. 451	ISS 82P	-	GIK-5	LC31	-	-	-	-	-
2022-145	2459885.78	2022 Nov 2 0647:48	Soyuz-2-1B	Fregat	- 111-306	Kosmos-2563	Kupol No. 6	-	-	GIK-1	LC43/4	-	-	-	-	-
2022-161	2459912.13	2022 Nov 28 1513:50	Soyuz-2-1B	Fregat	N 15000-047/ 112-?	Kosmos-2564	Uragan-M No. 761	-	-	GIK-1	LC43/4	-	-	-	-	-
2022-163	2459914.38	2022 Nov 30 2110:25	Soyuz-2-1B	-	760-93-148	Kosmos-2565/Kosmos-2566	Lotos-S1 No. 807?	-	-	GIK-1	LC43/4	-	-	-	-	-
2023-018	2459984.76	2023 Feb 9 0615:36	Soyuz-2-1A	-	M 15000-063	Progress MS-22	Progress 7K-TGM No. 452	ISS 83P	-	GIK-5	LC31	-	-	-	-	-
2023-024	2459999.52	2023 Feb 24 0024:29	Soyuz-2-1A	-	M 15000-060	Soyuz MS-23	Soyuz 11F732A48 No. 754	ISS 69S	-	GIK-5	LC31	-	-	-	-	-
2023-040	2460026.78	2023 Mar 23 0640:11	Soyuz-2-1A	-	-	Kosmos-2567	Bars-M No. 4	-	-	GIK-1	LC43/3	-	-	-	-	-
2023-045	2460033.33	2023 Mar 29 1957:02	Soyuz-2-1V	-	-	Kosmos-2568	EO-KMA No. 2?	-	-	GIK-1	LC43/4?	-	-	-	-	-
2023-071	2460089.04	2023 May 24 1256:07	Soyuz-2-1A	-	M 15000-064	Progress MS-23	Progress 7K-TGM No. 453	ISS 84P	-	GIK-5	LC31	-	-	-	-	-
2023-074	2460091.39	2023 May 26 2114:51	Soyuz-2-1A	Fregat	V 15000-004/ 142-01	Kondor-FKA No. 1	Kondor-FKA No. 1	-	-	VOST	PU1S	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-091	2460122.98	2023 Jun 27 1134:49	Soyuz-2-1B	Fregat	Kh15000-010/ 142-02	Meteor-M No. 2-3	Soyuz Rideshare 11	-	-	VOST	PU1S	-	-	-	-	-
2023-114	2460164.06	2023 Aug 7 1319:25	Soyuz-2-1B	Fregat	- / 112-23	Kosmos-2569	Glonass-K2 No. 13L	-	-	GIK-1	LC43/3	-	-	-	-	-
2023-118	2460167.47	2023 Aug 10 2310:57	Soyuz-2-1B	Fregat	V 15000-003/ 122-10	Luna-25	Luna-Glob	-	-	VOST	PU1S	-	-	-	-	-
2023-125	2460179.55	2023 Aug 23 0108:10	Soyuz-2-1A	-	M 15000-065	Progress MS-24	Progress 7K-TGM No. 454	ISS 85P	-	GIK-5	LC31	-	-	-	-	-
2023-143	2460203.16	2023 Sep 15 1544:35	Soyuz-2-1A	-	M 15000-061	Soyuz MS-24	Soyuz 11F732A48 No. 755	ISS 70S	-	GIK-5	LC31	-	-	-	-	-
2023-165	2460244.75	2023 Oct 27 0604:43	Soyuz-2-1B	-	-	Kosmos-2570/Kosmos-2571	Lotos-S1 No. 808?	-	-	GIK-1	LC43/3	-	-	-	-	-
2023-182	2460274.37	2023 Nov 25 2058:06	Soyuz-2-1B	-	-	Kosmos-2572	Yantar' Unknown A1	-	-	GIK-1	LC43/4	-	-	-	-	-
2023-184	2460279.89	2023 Dec 1 0925:12	Soyuz-2-1A	-	M 15000-067	Progress MS-25	Progress 7K-TGM No. 455	ISS 86P	-	GIK-5	LC31	-	-	-	-	-
2023-198	2460294.89	2023 Dec 16 0917:48	Soyuz-2-1B	Fregat	Ya15000-058/ 122-11	Arktika-M No. 2	Arktika-M No. 2	-	-	GIK-5	LC31	-	-	-	-	-
2023-201	2460299.87	2023 Dec 21 0848:39	Soyuz-2-1B	?	-	Kosmos-2573	Bars-M No. 5?	-	-	GIK-1	LC43/4	-	-	-	-	-
2023-209	2460305.79	2023 Dec 27 0703:44	Soyuz-2-1V	-	-	Kosmos-2574	EO-MKA No. 3?	-	-	GIK-1	LC43/4	-	-	-	-	-
2024-026	2460349.79	2024 Feb 9 0703	Soyuz-2-1V	-	-	Kosmos-2575	EO-MKA No. 4?	-	-	GIK-1	LC43/4	-	-	-	-	-
2024-029	2460355.64	2024 Feb 15 0325:06	Soyuz-2-1A	-	M 15000-068	Progress MS-26	Progress 7K-TGM No. 456	ISS 87P	-	GIK-5	LC31	-	-	-	-	-
2024-039	2460369.74	2024 Feb 29 0543:26	Soyuz-2-1B	Fregat	S 15000-012/ 142-03	Meteor-M No. 2-4	Soyuz Rideshare 12	-	-	VOST	PU1S	-	-	-	-	-
2024-055	2460393.03	2024 Mar 23 1236:10	Soyuz-2-1A	-	M 15000-066	Soyuz MS-25	Soyuz 11F732A48 No. 756	ISS 71S	-	GIK-5	LC31	-	-	-	-	-
2024-061	2460400.90	2024 Mar 31 0936:45	Soyuz-2-1B	-	Kh15000-067	Resurs-P No. 4	Resurs-P No. 4	-	-	GIK-5	LC31	-	-	-	-	-
2024-092	2460447.39	2024 May 16 2121	Soyuz-2-1B	Fregat	770-53-735 xxx-xx	Kosmos-2576	Soyuz Rideshare 13	-	-	GIK-1	LC43/4	-	-	-	-	-
2024-103	2460460.90	2024 May 30 0942:59	Soyuz-2-1A	-	-	Progress MS-27	Progress 7K-TGM No. 457	ISS 88P	-	GIK-5	LC31	-	-	-	-	-
2024-145	2460537.64	2024 Aug 15 0320:18	Soyuz-2-1A	-	A 15000-072	Progress MS-28	Progress 7K-TGM No. 458	ISS 89P	-	GIK-5	LC31	-	-	-	-	-
2024-162	2460565.18	2024 Sep 11 1623:12	Soyuz-2-1A	-	M 15000-070	Soyuz MS-26	Soyuz 11F732A48 No. 757	ISS 72S	-	GIK-5	LC31	-	-	-	-	-
2024-197	2460614.83	2024 Oct 31 0751:31	Soyuz-2-1A	-	760-72-531	Kosmos-2579	Bars-M No. 6?	-	-	GIK-1	LC43/4	-	-	-	-	-
2024-199	2460619.47	2024 Nov 4 2318:40	Soyuz-2-1B	Fregat	S 15000-013 142-601	Ionosfera-M No. 1/2	Ionosfera-M No. 1/2	-	-	VOST	PU1S	-	-	-	-	-
2024-215	2460636.02	2024 Nov 21 1222:24	Soyuz-2-1A	-	K 15000-074	Progress MS-29	Progress 7K-TGM No. 459	ISS 90P	-	GIK-5	LC31	-	-	-	-	-
2024-223	2460644.41	2024 Nov 29 2150:25	Soyuz-2-1A	Fregat	S 15000-005 142-04	Kondor-FKA No. 2	Kondor-FKA No. 2	-	-	VOST	PU1S	-	-	-	-	-
2024-230	2460649.25	2024 Dec 4 1803:13	Soyuz-2-1B	-	-	Kosmos-2580	Lotos-S1 No. 809	-	-	GIK-1	LC43/4	-	-	-	-	-
2024-250	2460669.82	2024 Dec 25 0745:42	Soyuz-2-1B	-	S 15000-068	Resurs-P No. 5	Resurs-P No. 5	-	-	GIK-5	LC31	-	-	-	-	-
2025-026	2460711.67	2025 Feb 5 0359	Soyuz-2-1V	Volga	-	Kosmos-2581/2/3	MKA-B 1 to	-	-	GIK-1	LC43/4	-	-	-	-	-
2025-041	2460734.39	2025 Feb 27 2124:27	Soyuz-2-1A	-	N 15000-076	Progress MS-30	Progress 7K-TGM No. 460	ISS 91P	-	GIK-5	LC31	-	-	-	-	-
2025-042	2460737.43	2025 Mar 2 2222:16	Soyuz-2-1B	Fregat	-	Kosmos-2584	Glonass-K2 No. 14L	-	-	GIK-1	LC43/3	-	-	-	-	-
2025-072	2460773.74	2025 Apr 8 0547:15	Soyuz-2-1A	-	K 15000-075	Soyuz MS-27	Soyuz 11F732A48 No. 758	ISS 73S	-	GIK-5	LC31	-	-	-	-	-
2025-109	2460818.86	2025 May 23 0836	Soyuz-2-1B	Fregat	-	Kosmos-2588	Unk RU 1	-	-	GIK-1	LC43/4	-	-	-	-	-
2025-146	2460860.31	2025 Jul 3 1932:40	Soyuz-2-1A	-	Kh15000-048	Progress MS-31	Progress 7K-TGM No. 461	ISS 92P	-	GIK-5	LC31	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S183	2435974.17	1957 May 15 1601	R-7	-	M1-5	0.000	MVS	MF	U	-	Test	Z10	Men'shikov	-
1957-A62	2436032.04	1957 Jul 12 1253	R-7	-	M1-7	0.000	MVS	MF	U	-	Test	Energiya	SFLT39-331	-
1957-S92	2436072.02	1957 Aug 21 1225	R-7	-	M1-8	0.000	MVS	MS	-	-	Test	Energiya	Men'shikov	-
1957-S107	2436088.99	1957 Sep 7 1139	R-7	-	M1-9	0.000	MVS	MS	-	-	Test	Energiya	SFLT39-331	-
1957 ALP	2436116.31	1957 Oct 4 1928:34	Sputnik 8K71PS	-	M1-PS	0.084	MVS	OS	-	G	Sat LEO O 1	Energiya	SFLT39-331	-
1957 BET	2436145.60	1957 Nov 3 0230:42	Sputnik 8K71PS	-	M1-2PS	8.308	MVS	OS	-	G	Sat LEO A 1	Grahn-WWW	Energiya	-
1958-S17	2436233.39	1958 Jan 29 2115	R-7	-	M1-11	0.000	MVS	MF	U	-	Test	SFLT38-49	SFLT39-331	-
1958-S49	2436292.11	1958 Mar 29 1443	R-7	-	M1-10	0.000	MVS	MS	-	-	Test	Z10	SFLT38-49	-
1958-S51	2436298.15	1958 Apr 4 1530	R-7	-	B1-12	0.000	MVS	MS	-	-	Test	SFLT38-49	SFLT39-331	-
1958-F03	2436320.88	1958 Apr 27 0901	Sputnik 8A91	-	B1-2	1.327	MVS	OF	S1P	G	Sat LEO O 3	NezavB	SFLT39-331	Resonance oscillations
1958 DEL	2436338.79	1958 May 15 0700:35	Sputnik 8A91	-	B1-1	1.327	MVS	OS	-	G	Sat LEO O 3	NezavB	Energiya	-
1958-S70	2436347.94	1958 May 24 1030	R-7	-	B1-3	0.000	MVS	MF	U	-	Test	Energiya	SFLT39-331	-
1958-A69	2436394.82	1958 Jul 10 0742	R-7	-	B1-4	0.000	MVS	MF	U	-	Test	Energiya	SFLT39-331	-
1958-F15	2436469.82	1958 Sep 23 0740:23	Vostok-L 8K72	-	B1-3	0.170	MVS	OF	S1P	G	Sat EEO E	AK15	Energiya	Resonance vibrations
1958-F17	2436488.40	1958 Oct 11 2141:58	Vostok-L 8K72	-	B1-4	0.170	MVS	OF	S1P	G	Sat EEO E	AK15	Energiya	Resonance vibrations
1958-F20	2436542.26	1958 Dec 4 1818:45	Vostok-L 8K72	-	B1-5	0.170	MVS	OF	S2P	G	Sat EEO E	AK15	Energiya	Core lost thrust
1958-S377	2436562.17	1958 Dec 24 1600	R-7	-	B3-16	0.000	MVS	MF	U	-	Test	BML	Chertok2,Z10	SFLT38-49
1959 MU	2436571.20	1959 Jan 2 1641:21	Vostok-L 8K72	-	B1-6	0.205	MVS	DS	-	G	Sat EEO E	Energiya	-	-
1959-S32	2436616.57	1959 Feb 17 0146	R-7	-	No. 041081	0.000	MVS	MS	-	-	Test	NK-FORUM	SFLT38-49	-
1959-S36	2436652.73	1959 Mar 25 0525	R-7	-	No. I3-18	0.000	MVS	MS	-	-	Test	NezavB	SFLT38-49	-
1959-S281	2436658.45	1959 Mar 30 2253	R-7	-	No. I3-20	0.000	MVS	MF	U	-	Test	SFLT38-49	Wotzlaw-fpspace	-
1959-S282	2436698.29	1959 May 9 1859	R-7	-	No. I3-21	0.000	MVS	MF	U	-	Test	SFLT38-49	Wotzlaw-fpspace	-
1959-S283	2436719.40	1959 May 30 2142	R-7	-	No. I3-22	0.000	MVS	MF	U	-	Test POR?	SFLT38-49	Wotzlaw-fpspace	2000km over
1959-S284	2436729.36	1959 Jun 9 2034	R-7	-	No. I3-23	0.000	MVS	MF	U	-	Test	SFLT38-49	Wotzlaw-fpspace	2175km over
1959-F06	2436737.84	1959 Jun 18 0808	Vostok-L 8K72	-	I1-7	0.170	MVS	OF	S2G	G	Sat EEO E	NezavB	Energiya	Gyro failure
1959-S112	2436768.26	1959 Jul 18 1815	R-7	-	No. I3-24	0.000	MVS	MS	-	-	Test	SFLT38-49	-	-
1959-S130	2436779.67	1959 Jul 30 0400	R-7	-	No. 041082	0.000	MVS	MS	-	-	Test	SFLT38-49	-	-
1959-S139	2436794.47	1959 Aug 13 2314	R-7	-	No. I3-25	0.000	MVS	MS	-	-	Test	Wotzlaw-fpspace	-	-
1959 XI	2436823.78	1959 Sep 12 0639:42	Vostok-L 8K72	-	I1-7B	0.205	MVS	DS	-	G	Sat EEO E	JBIS51-231	Energiya	-
1959-S179	2436830.17	1959 Sep 18 1602	R-7	-	I1-1T	0.000	MVS	MS	-	-	Test	Wotzlaw-fpspace	-	-
1959 THE	2436845.53	1959 Oct 4 0043:39	Vostok-L 8K72	-	I1-8	0.278	MVS	DS	-	G	Sat EEO E	NezavB	-	-
1959-S220	2436864.23	1959 Oct 22 1730	R-7	-	No. 267432	0.000	MVS	MS	-	-	Test	SFLT38-49	-	-
1959-S222	2436867.23	1959 Oct 25 1732	R-7	-	No. 267434	0.000	MVS	MS	-	-	Test	SFLT38-49	-	-
1959-S230	2436874.39	1959 Nov 1 2123	R-7	-	No. 267431	0.000	MVS	MS	-	-	Test	Wotzlaw-fpspace	-	-
1959-S251	2436893.38	1959 Nov 20 2106	R-7	-	I2-1T	0.000	MVS	MS	-	-	Test	Wotzlaw-fpspace	-	-
1959-S253	2436899.55	1959 Nov 27 0112:33	R-7	-	No. 267433	0.000	MVS	MS	-	-	Test	Wotzlaw-fpspace	-	-
1959-S277	2436926.30	1959 Dec 23 1905	R-7A	-	I1-1	0.000	RVSN	MS	-	-	Test	Energiya	NezavB	-
1960-S17	2436954.18	1960 Jan 20 1624	R-7A	-	I1-2	0.000	RVSN	MS	-	-	Test	BML	SFLT2-183	SFLT40-28
1960-A20	2436958.18	1960 Jan 24 1615	R-7A	-	I1-3	0.000	RVSN	MF	U	-	Test	BML	Wotzlaw-fpspace	-
1960-S28	2436965.18	1960 Jan 31 1617	R-7A	-	I1-4	0.000	RVSN	MS	-	-	Test	NK0707-70	SFLT40-28	-
1960-S54	2437011.50	1960 Mar 17 2355	R-7A	-	L1-5	0.000	RVSN	MS	-	-	Test	Wotzlaw-fpspace	-	-
1960-S61	2437017.59	1960 Mar 24 0206	R-7A	-	L1-6	0.000	RVSN	MS	-	-	Test	Wotzlaw-fpspace	-	-
1960-U01	2437040.13	1960 Apr 15 1506:45	Vostok-L 8K72	-	L1-9/I-19AMS	0.280	RVSN	OF	S3U	G	Sat EEO E	NezavB	-	Early cutoff
1960-F06	2437041.17	1960 Apr 16 1607:41	Vostok-L 8K72	-	L1-9A	0.280	RVSN	OF	S1I	G	Sat EEO E	NezavB	-	Blok B ft ignite
1960 EPS	2437069.50	1960 May 15 0000:05	Vostok 8K72	-	L1-11	7.100	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1960-S118	2437090.16	1960 Jun 4 1549	R-7	-	L1-9	0.000	RVSN	MS	-	-	OT	NezavB	-	-
1960-S164	2437121.16	1960 Jul 5 1556	R-7A	-	L1-7	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1960-S167	2437123.14	1960 Jul 7 1527	R-7A	-	L1-8	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1960-F09	2437143.90	1960 Jul 28 0931	Vostok 8K72	-	L1-10	4.700	RVSN	OF	S1P	G	Sat LEO O	NezavB	-	Fail T+19s
1960 LAM	2437165.86	1960 Aug 19 0844:06	Vostok 8K72	-	L1-12	4.580	RVSN	OS	-	G	Sat LEO O	NezavB	-	-
1960-F12	2437218.10	1960 Oct 10 1427:49	Molniya 8K78	-	L1-4M	0.480	RVSN	OF	S3G	G	Sat EEO OE 1	KIAM	-	Pitch control failed
1960-F14	2437222.08	1960 Oct 14 1351:03	Molniya 8K78	-	L1-5M	0.480	RVSN	OF	S3I	G	Sat EEO OE 1	KIAM	-	Frozen valve
1960 RHO	2437269.81	1960 Dec 1 0730:04	Vostok 8K72	-	L1-13	4.580	RVSN	OS	-	G	Sat LEO O	NezavB	-	-
1960-F19	2437290.82	1960 Dec 22 0745:19	Vostok 8K72	K	L1-13A	4.700	RVSN	OF	S3P	G	Sat LEO O	NezavB	-	Gas generator
1961-S20	2437313.55	1961 Jan 14 0119:04	R-7A	-	L1-1T	0.000	RVSN	MS	-	-	OT	NezavB	-	-
1961 BET	2437334.55	1961 Feb 4 0118:03	Molniya 8K78	-	L1-7V	6.220	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	NezavB	Power failed
1961 GAM	2437342.52	1961 Feb 12 0034:36	Molniya 8K78	-	L1-6V	1.220	RVSN	DS	-	G	Sat EEO OE 1	NezavB	-	-
1961-S43	2437343.69	1961 Feb 13 0439	R-7A	-	L1-3T	0.000	RVSN	MS	-	-	OT	Wotzlaw-fpspace	-	-
1961-S61	2437357.54	1961 Feb 27 0052:03	R-7A	-	L2-1	0.000	RVSN	MS	-	-	OT	Wotzlaw-fpspace	-	-
1961 THE	2437367.77	1961 Mar 9 0629:00	Vostok 8K72	K	E103-14	4.700	RVSN	OS	-	G	Sat LEO O	NezavB	-	-
1961 IOT	2437383.75	1961 Mar 25 0554:00	Vostok 8K72	K	E103-15	4.700	RVSN	OS	-	G	Sat LEO O	NezavB	-	-
1961 MU	2437401.75	1961 Apr 12 0607:00	Vostok 8K72	K	E103-16	4.725	RVSN	OS	-	G	Sat LEO O	Energiya	VSA074	-
1961-A102	2437404.31	1961 Apr 14 1924	R-7A	-	E 15001- 05	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S180	2437465.74	1961 Jun 15 0545	R-7A	-	E 15001- 06	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-S200	2437484.67	1961 Jul 4 0400	R-7A	-	L2-4	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-S201	2437485.35	1961 Jul 4 2020	R-7A	-	L2-2	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961 TAU	2437517.75	1961 Aug 6 0600	Vostok 8K72	K	E103-17	4.700	RVSN	OS	-	G	Sat LEO O	VSA074	VSA074	-
1961-S293	2437564.19	1961 Sep 21 1630	R-7A	-	E 15003- 03	0.000	RVSN	MS	-	-	Test	BML	NezavB	LC1?
1961-S392	2437632.75	1961 Nov 29 0559	R-7A	-	L2-3	0.000	RVSN	MS	-	-	OT	BML/Chertok3	RDP78T05439	-
1961-F14	2437644.90	1961 Dec 11 0939:02	Vostok 8K72	K	E103-21	4.700	RVSN	OF	S3P	G	Sat LEO O	NK96-10-65	-	Early shutdown
1962 XI	2437780.92	1962 Apr 26 1002	Vostok 8K72	K	E103-20	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1962-F06	2437816.90	1962 Jun 1 0938	Vostok 8A92	-	E 15000- 01	4.700	RVSN	OF	S1P	G	Sat LEO O	NK96-10-65	-	Blok-B failed
1962-S218	2437848.19	1962 Jul 2 1636	R-7A	-	T 15001- 03	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	LC1?
1962 A IOT	2437873.89	1962 Jul 28 0918:31	Vostok 8A92	-	T 15000- 07	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1962 A MU	2437887.85	1962 Aug 11 0830	Vostok 8K72	K	E103-23	4.700	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1962 A NU	2437888.83	1962 Aug 12 0802:17	Vostok 8K72	K	E103-22	4.700	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1962 A PI	2437901.60	1962 Aug 25 0218:45	Molniya 8K78	-	T103-12	6.500	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	-	BOZ failed
1962 A TAU	2437908.59	1962 Sep 1 0212:30	Molniya 8K78	-	T103-13	6.500	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	-	Fuel valve stuck
1962 A PHI	2437919.54	1962 Sep 12 0059:13	Molniya 8K78	-	T103-14	6.500	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	-	Ox pump failed
1962 A OME	2437934.90	1962 Sep 27 0939:51	Vostok 8A92	-	T 15000- 06	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1962 B ZET	2437954.88	1962 Oct 17 0900:00	Vostok 8A92	-	T 15000- 03	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1962 B IOT	2437962.25	1962 Oct 24 1755:04	Molniya 8K78	-	T103-15	1.493	RVSN	OF40	S4P	G	Sat EEO OE 1	KIAM	-	Turbopump, stage exploded
1962 B NU	2437970.18	1962 Nov 1 1614:16	Molniya 8K78	-	T103-16	1.493	RVSN	DS	-	G	Sat EEO OE 1	KIAM	NK9620-53	-
1962 B XI	2437973.15	1962 Nov 4 1535:15	Molniya 8K78	-	T103-17	6.500	RVSN	OF40	S4I	G	Sat EEO OE 1	KIAM	-	Cavitation in S2 caused S4 fail
1962 B OME	2438020.89	1962 Dec 22 0923	Vostok 8A92	-	T 15000- 10	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65,AVM	-	-
1963-001	2438033.87	1963 Jan 4 0849	Molniya 8K78	E6	T103-09	1.770	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	-	BOZ failed

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-F01	2438063.90	1963 Feb 3 0929:14	Molniya 8K78	E6	G103-10	1.470	RVSN	OF	S3G	G	Sat EEO OE 1	NK9701-29	-	Gyro failed
1963-006	2438109.85	1963 Mar 21 0830:01	Vostok 8A92	-	T 15000- 01	4.700	RVSN	OS	-	G	Sat LEO O	AK13	TLE	-
1963-008	2438121.84	1963 Apr 2 0816:37	Molniya 8K78	E6	G103-11	1.422	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	-	-
1963-S167	2438142.02	1963 Apr 22 1232:06	R-7A	-	L1-4	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1963-011	2438141.85	1963 Apr 22 0830	Vostok 8A92	-	T 15000- 08	4.700	RVSN	OS	-	G	Sat LEO O	AK13	TLE	-
1963-012	2438147.87	1963 Apr 28 0849:56	Vostok 8A92	-	E 15000- 02	4.700	RVSN	OS	-	G	Sat LEO O	AK13	-	-
1963-S211	2438167.82	1963 May 18 0741	R-7A	-	L1-6	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1963-018	2438173.94	1963 May 24 1034:06	Vostok 8A92	-	E 15000- 12	4.700	RVSN	OS	-	G	Sat LEO O	TLE	-	-
1963-020	2438195.00	1963 Jun 14 1158:58	Vostok 8K72	K	E103-24	4.700	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1963-023	2438196.90	1963 Jun 16 0929:52	Vostok 8K72	K	E103-25	4.700	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1963-E01	2438220.92	1963 Jul 10 1003:25	Vostok 8A92	-	E 15000- 04	4.700	RVSN	OE	PE	G	Sat LEO O	RML	NK96-10-65	Turbopump, exploded
1963-S487	2438317.08	1963 Oct 14 1356:40	R-7A	-	L2-5	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1963-040	2438320.90	1963 Oct 18 0929:58	Vostok 8A92	-	G 15001- 01	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1963-043	2438334.87	1963 Nov 1 0856:38	Polyot 11A59	-	E 15003- 02A	1.950	RVSN	OS	-	G	Sat LEO S	AK13	XPC	-
1963-044	2438344.77	1963 Nov 11 0623:35	Molniya 8K78	-	G 15000- 17/G10318	5.890	RVSN	OF40	S4G	G	Sat EEO OE 1	NK9701-29	-	Lost attitude in coast
1963-045	2438349.94	1963 Nov 16 1034:25	Voskhod 11A57	-	G 15000- 06	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1963-F15	2438361.89	1963 Nov 28 0919:59	Vostok 8A92	-	G 15001- 02	4.700	RVSN	OF	S3I	G	Sat LEO O	AK13	NK96-10-65	No ignition
1963-052	2438382.90	1963 Dec 19 0928:58	Vostok 8A92	-	G 15001- 03	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1964-006	2438424.91	1964 Jan 30 0945:09	Vostok 8K72	K	G103-18	0.810	RVSN	OS	-	G	Sat HEO O 1	Energiya	-	-
1964-F01	2438444.74	1964 Feb 19 0547:40	Molniya 8K78	M	T 15000- 19	0.890	RVSN	OF	S3P	G	Sat EEO OE 1	NK9701-29	-	LOX leak, exploded
1964-F03	2438475.84	1964 Mar 21 0815:35	Molniya 8K78	E6	T 15000- 20	1.472	RVSN	OF	S3P	G	Sat EEO OE 1	NK9701-29	-	LOX valve, low thrust
1964-014	2438481.64	1964 Mar 27 0324:42	Molniya 8K78	M	T 15000- 22	6.490	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	-	BOZ failed
1964-016	2438487.61	1964 Apr 2 0242:40	Molniya 8K78	M	G 15000- 28/23	1.090	RVSN	DS	-	G	Sat EEO OE 1	AK15	-	-
1964-017	2438489.91	1964 Apr 4 0945:00	Vostok 8A92	-	G 15001- 04	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-019	2438497.90	1964 Apr 12 0930	Polyot 11A59	-	T 15001- 01A	2.250	RVSN	OS	-	G	Sat LEO S	Siddiqi	Kosmodrom6-15	-
1964-F05	2438505.84	1964 Apr 20 0808:28	Molniya 8K78	E6	T 15000- 21	1.472	RVSN	OF	S3E	G	Sat EEO OE 1	NK9701-29	-	Electrical failure
1964-021	2438510.93	1964 Apr 25 1021	Vostok 8A92	-	R 15001- 01	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-023	2438533.90	1964 May 18 0942	Voskhod 11A57	-	G 15000- 12	5.650	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1964-S277	2438549.75	1964 Jun 3 0604	R-7A	-	E 15003- 15	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1964-F07	2438550.67	1964 Jun 4 0400	Molniya 8K78	-	G 15000- 18/R10334	1.600	RVSN	OF	S2P	G	Sat MOL OO 1	AK15	NK9701-29	Blok A failed
1964-029	2438556.96	1964 Jun 10 1100	Vostok 8A92	-	R 15001- 02	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-033	2438569.92	1964 Jun 23 1000	Vostok 8A92	-	G 15001- 05	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-034	2438577.96	1964 Jul 1 1100	Voskhod 11A57	-	T 15000- 04	5.650	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1964-038	2438587.41	1964 Jul 10 2151:02	Vostok 8K72	K	G103-19	0.794	RVSN	OS	-	G	Sat HEO O 1	Energiya	Kosmodrom6-15	-
1964-039	2438591.98	1964 Jul 15 1127	Vostok 8A92	-	R 15001- 03	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-S384	2438604.08	1964 Jul 27 1400	R-7A	-	L1-7	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1964-044	2438621.90	1964 Aug 14 0930	Vostok 8A92	-	R 15001- 04	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-049	2438629.81	1964 Aug 22 0721	Molniya 8K78	-	G 15000- 19/R10336	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	Kosmodrom6-15	-
1964-053	2438636.17	1964 Aug 28 1600	Vostok 8A92M	-	T 15000- 05	1.250	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1964-055	2438651.91	1964 Sep 13 0945	Voskhod 11A57	-	R 15001- 01	5.650	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1964-059	2438663.00	1964 Sep 24 1204	Vostok 8A92	-	R 15001- 05	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-062	2438674.79	1964 Oct 6 0700:00	Voskhod 11A57	-	R 15000- 02	5.320	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	VSA074:0712
1964-065	2438680.81	1964 Oct 12 0730:01	Voskhod 11A57	-	R 15000- 04	5.320	RVSN	OS	-	G	Sat LEO O	VSA074	Kosmodrom6-15	-
1964-066	2438682.92	1964 Oct 14 1000	Vostok 8A92	-	R 15002- 01	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-070	2438696.94	1964 Oct 28 1040	Vostok 8A92	-	R 15002- 02	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1964-078	2438730.06	1964 Nov 30 1325	Molniya 8K78	-	G 15000- 29	2.390	RVSN	DS	-	G	Sat EEO OE 1	AK15	KIAM	-
1965-001	2438771.90	1965 Jan 11 0929:58	Vostok 8A92	-	R 15002- 03	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-012	2438813.81	1965 Feb 22 0730	Voskhod 11A57	-	R 15000- 03	5.685	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	VSA074:0740:48
1965-014	2438817.71	1965 Feb 26 0501:32	Vostok 8A92M	-	R 15000- 09	1.250	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1965-015	2438826.87	1965 Mar 7 0859:28	Voskhod 11A57	-	R 15001- 05	5.750	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1965-018	2438831.89	1965 Mar 12 0925:31	Molniya 8K78	E6	G 15000- 24/R10325	7.070	RVSN	OF40	S4I	G	Sat EEO OE 1	AK15	JBIS53-319	Power supply failed
1965-022	2438837.79	1965 Mar 18 0700:00	Voskhod 11A57	-	R 15000- 05	5.825	RVSN	OS	-	G	Sat LEO O	VSA074	-	-
1965-025	2438844.92	1965 Mar 25 1000	Vostok 8A92	-	G 15001- 06	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-F05	2438860.86	1965 Apr 10 0839:01	Molniya 8K78	-	U 15000- 22/R10326	1.472	RVSN	OF	S3P	G	Sat EEO OE 1	AK15	NK9701-29	LOX leak
1965-029	2438867.91	1965 Apr 17 0950	Voskhod 11A57	-	G 15000- 11	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAE	-	-
1965-030	2438873.58	1965 Apr 23 0155:00	Molniya 8K78	-	U 15000 -35/U10335	2.250	RVSN	OS	-	G	Sat MOL OO 1	NK0506-68	Kosmodrom6-15	-
1965-035	2438887.90	1965 May 7 0929:59	Vostok 8A92	-	R 15002- 04	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-036	2438889.83	1965 May 9 0749:37	Molniya 8K78	M	U 15000- 24/U10330	1.971	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	Kosmodrom6-15	-
1965-040	2438905.95	1965 May 25 1050:00	Voskhod 11A57	-	R 15001- 04	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-044	2438919.82	1965 Jun 8 0740:23	Molniya 8K78	M	U 15000- 33/U10331	2.042	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	Kosmodrom6-15	-
1965-046	2438926.90	1965 Jun 15 0943:02	Vostok 8A92	-	U 15001- 01	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-049	2438936.91	1965 Jun 25 0945:00	Voskhod 11A57	-	G 15000- 10	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-F08	2438954.96	1965 Jul 13 1100	Vostok 8A92	-	R 15002- 05	4.700	RVSN	OF	S2G	G	Sat LEO O	RML	NK96-10-65	Pitch malfunction
1965-056	2438960.11	1965 Jul 18 1432:05	Molniya 8K78	-	U 15000- 32	2.460	RVSN	DS	-	G	Sat EEO OE 1	AK15	Kosmodrom6-15	-
1965-061	2438975.96	1965 Aug 3 1100	Voskhod 11A57	-	U 15001- 01	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-066	2438986.96	1965 Aug 14 1056:46	Vostok 8A92	-	U 15001- 02	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-069	2438997.92	1965 Aug 25 1010:02	Voskhod 11A57	-	R 15001- 06	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-071	2439012.90	1965 Sep 9 0930	Voskhod 11A57	-	R 15001- 02	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-075	2439026.88	1965 Sep 23 0900	Voskhod 11A57	-	R 15001- 03	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-077	2439037.82	1965 Oct 4 0736:48	Molniya 8K78M	-	U 15000- 54/U10327	2.106	RVSN	DS	-	G	Sat EEO OE 1	AK15	JBIS53-319	Kosmodrom6-15
1965-080	2439047.75	1965 Oct 14 0600:00	Molniya 8K78	-	U 15000- 34	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	-	-
1965-083	2439049.84	1965 Oct 16 0814:59	Voskhod 11A57	-	U 15001- 04	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-085	2439061.84	1965 Oct 28 0815:01	Voskhod 11A57	-	U 15001- 03	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1965-091	2439076.70	1965 Nov 12 0446:48	Molniya 8K78	M	U 15000- 42	2.463	RVSN	DS	-	G	Sat EEO OE 1	AK15	Kosmodrom6-15	-
1965-092	2439080.68	1965 Nov 16 0413:35	Molniya 8K78	M	U 15000- 31	1.560	RVSN	DS	-	G	Sat EEO OE 1	AK15	SFLT40-88	-
1965-094	2439087.63	1965 Nov 23 0314:10	Molniya 8K78	M	U 15000- 30	6.563	RVSN	OF40	S4I	G	Sat EEO OE 1	AK15	NK9701-29	BOZ failed
1965-097	2439091.85	1965 Nov 27 0820	Vostok 8A92	-	U 15001- 05	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-099	2439097.95	1965 Dec 3 1046:14	Molniya 8K78	-	U 15000- 48/U10328	2.152	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	Kosmodrom6-15	-
1965-103	2439104.84	1965 Dec 10 0810	Vostok 8A92	-	U 15001- 04	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1965-S679	2439108.97	1965 Dec 14 1118	R-7A	-	T 15001- 09	0.000	RVSN	MS	-	-	Test	RML	NK9909-68	-
1965-106	2439111.60	1965 Dec 17 0220	Vostok 8A92M	?	R 15000- 31	1.250	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1965-S693	2439116.34	1965 Dec 21 2003	R-7A	-	T 15003- 14	0.000	RVSN	MS	-	-	Test	RML	NK9909-68	-
1965-111	2439122.43	1965 Dec 27 2224:56	Vostok-2A 11A510	-	G 15000- 01	3.600	RVSN	OS	-	G	Sat LEO S	AK15	Kosmodrom6-15	-
1966-001	2439132.85	1966 Jan 7 0820	Vostok 8A92	-	U 15001- 08	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-003	2439147.85	1966 Jan 22 0830	Vostok 8A92	-	U 15001- 10	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-006	2439156.99	1966 Jan 31 1141:37	Molniya 8K78M	?	U 15000- 49	2.183	RVSN	DS	-	G	Sat EEO OE 1	Energiya	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-010	2439166.86	1966 Feb 10 0840	Vostok 8A92	-	U 15001- 06	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-014	2439175.87	1966 Feb 19 0849	Voskhod 11A57	-	U 15001- 02	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-015	2439179.34	1966 Feb 22 2009:36	Voskhod 11A57	-	R 15000- 06	5.350	RVSN	OS	-	G	Sat LEO O	VSA074	Kosmodrom6-15	-
1966-017	2439185.96	1966 Mar 1 1103:49	Molniya 8K78M	?	U 15000- 50	7.182	RVSN	OF40	S4I	G	Sat EEO OE 1	JBIS53-319	NK9701-29	Roll control failed in coast
1966-021	2439201.94	1966 Mar 17 1028:42	Vostok 8A92	-	U 15001- 09	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1966-023	2439205.90	1966 Mar 21 0940	Voskhod 11A57	-	U 15001- 05	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-F04	2439211.81	1966 Mar 27 0720	Molniya 8K78	M	U 15000- 40	1.650	RVSN	OF	S3	G	Sat MOL OO 1	AK15	NK9701-29	Details unknown
1966-027	2439215.95	1966 Mar 31 1046:59	Molniya 8K78M	?	N 15000- 51/N10351	2.182	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	-	-
1966-028	2439221.99	1966 Apr 6 1140	Voskhod 11A57	-	U 15001- 07 *	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1966-033	2439235.94	1966 Apr 20 1040	Vostok 8A92	-	U 15001- 07	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-035	2439240.80	1966 Apr 25 0710	Molniya 8K78	M	N 15000- 37	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	-	-
1966-037	2439251.96	1966 May 6 1058	Vostok 8A92	-	N 15001- 01	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-038	2439257.09	1966 May 11 1410	Vostok 8A92M	-	R 15000- 32	1.250	RVSN	OS	-	G	Sat LEO O	AK15	Kosmodrom6-15	-
1966-F06	2439262.96	1966 May 17 1100	Voskhod 11A57	-	U 15001- 06	5.650	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	Blok G engine failed T+1:38
1966-S747	2439272.50	1966 May 27	R-7A	-	-	0.000	RVSN	MS	-	-	Test	Anik/nsf	-	Not in BML
1966-050	2439284.96	1966 Jun 8 1100	Voskhod 11A57	-	N 15001- 13	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-054	2439293.96	1966 Jun 17 1100	Voskhod 11A57	-	U 15001- 08	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1966-S748	2439301.50	1966 Jun 25	R-7A	-	-	0.000	RVSN	MS	-	-	Test	Anik/nsf	-	-
1966-057	2439301.94	1966 Jun 25 1030	Vostok 8A92M	-	R 15000- 21	1.250	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1966-064	2439320.93	1966 Jul 14 1025	Voskhod 11A57	-	N 15001- 14	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-067	2439326.87	1966 Jul 20 0858	Vostok-2A 11A510	-	G 15000- 02	3.600	RVSN	OS	-	G	Sat LEO S	AK15	Kosmodrom6-15	-
1966-068	2439334.95	1966 Jul 28 1050	Voskhod 11A57	-	N 15001- 01	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-071	2439345.98	1966 Aug 8 1129	Voskhod 11A57	-	N 15001- 02	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-078	2439361.84	1966 Aug 24 0803:21	Molniya 8K78M	?	N 15000- 52	2.240	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	-	-
1966-079	2439364.91	1966 Aug 27 0950	Voskhod 11A57	-	N 15001- 03	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAE	-	-
1966-F09	2439384.90	1966 Sep 16 0930	Vostok 8A92	-	N 15001- 02	4.700	RVSN	OF	S1P	G	Sat LEO O	AK15	NK96-10-65	Blok D engine failed
1966-091	2439413.01	1966 Oct 14 1213:08	Vostok 8A92	-	N 15001- 07	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1966-092	2439418.83	1966 Oct 20 0750	Molniya 8K78	M	N 15000- 40	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	-	-
1966-093	2439418.87	1966 Oct 20 0846	Voskhod 11A57	-	N 15001- 04	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-094	2439420.86	1966 Oct 22 0842:26	Molniya 8K78M	?	N 15000- 53	2.220	RVSN	DS	-	G	Sat EEO OE 1	JBIS53-319	-	-
1966-105	2439441.91	1966 Nov 12 0950	Voskhod 11A57	-	N 15001- 05	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-106	2439448.83	1966 Nov 19 0800	Vostok 8A92	-	N 15001- 08	4.700	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	-
1966-107	2439457.96	1966 Nov 28 1100:00	Soyuz 11A511	-	U 15000- 02	6.350	RVSN	OS	-	G	Sat LEO O	NKO204-71	-	-
1966-108	2439462.84	1966 Dec 3 0815	Voskhod 11A57	-	N 15001- 06	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1966-F12	2439473.96	1966 Dec 14 1100	Soyuz 11A511	-	U 15000- 01	3.500	RVSN	OF	PE	G	Sat LEO O	NKO204-71	AVMNLJ	Scrub, escape sys fired, explode
1966-115	2439479.00	1966 Dec 19 1200:01	Vostok 8A92	-	N 15001- 09	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1966-116	2439480.93	1966 Dec 21 1017:08	Molniya 8K78M	?	N 15000- 55	2.220	RVSN	DS	-	G	Sat EEO OE 1	CR-81705	JBIS53-319	-
1967-004	2439510.03	1967 Jan 19 1239:59	Vostok 8A92	-	N 15001- 05	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-009	2439528.64	1967 Feb 7 0320:00	Soyuz 11A511	-	U 15000- 03	6.350	RVSN	OS	-	G	Sat LEO O	NKO204-71	NK9703-56	-
1967-012	2439529.93	1967 Feb 8 1019:59	Voskhod 11A57	-	N 15001- 09	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1967-017	2439548.86	1967 Feb 27 0845:01	Vostok 8A92	-	U 15001- 03	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-018	2439550.11	1967 Feb 28 1434:59	Vostok 8A92M	?	N 15000- 55	1.250	RVSN	OS	-	G	Sat LEO O	PL-WWW	-	-
1967-022	2439563.01	1967 Mar 13 1210:23	Vostok 8A92	-	N 15001- 06	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-025	2439572.03	1967 Mar 22 1244:59	Voskhod 11A57	-	N 15001- 07	5.650	RVSN	OS	-	G	Sat LEO O	RAE	-	-
1967-030	2439585.08	1967 Apr 4 1400:02	Vostok 8A92	-	Ya15001- 01	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-033	2439592.95	1967 Apr 12 1051:02	Voskhod 11A57	-	N 15001- 08	5.650	RVSN	OS	-	G	Sat LEO O	NKO204-71	-	-
1967-037	2439603.52	1967 Apr 23 0035:00	Soyuz 11A511	-	U 15000- 04	6.450	RVSN	OS	-	G	Sat LEO O	JCM	-	-
1967-039	2439608.03	1967 Apr 27 1250:02	Vostok 8A92M	-	R 15000- 22	1.250	RVSN	OS	-	G	Sat LEO O	PL-WWW	-	-
1967-044	2439622.94	1967 May 12 1030:01	Vostok 8A92	-	Ya15001- 02	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-046	2439627.41	1967 May 16 2143:57	Molniya 8K78M	?	N 15001- 58	2.212	RVSN	OS	-	G	Sat HEO OO 1	JBIS53-319	-	Or N15000-56?
1967-049	2439633.08	1967 May 22 1400:00	Voskhod 11A57	-	Ya15001- 12	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1967-052	2439635.45	1967 May 24 2250:00	Molniya 8K78	M	N 15000- 41	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	-	-
1967-054	2439642.94	1967 Jun 1 1040:02	Voskhod 11A57	-	Ya15001- 11	5.650	RVSN	OS	-	G	Sat LEO O	AK15	-	-
1967-057	2439650.04	1967 Jun 8 1300:01	Voskhod 11A57	-	Ya15001- 04	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-058	2439653.61	1967 Jun 12 0239:45	Molniya 8K78M	VL	Ya15000- 71 L70	1.706	RVSN	DS	-	G	Sat EEO OE 1	Glazami	-	-
1967-063	2439658.61	1967 Jun 17 0236:38	Molniya 8K78M	VL	Ya15000- 70 L71	1.706	RVSN	OF40	S4I	G	Sat EEO OE 1	NK9701-29	RAE	No L ignition
1967-F06	2439661.96	1967 Jun 20 1100:00	Voskhod 11A57	-	Ya15001- 13	5.650	RVSN	OF	S1S	G	Sat LEO O	AK15	AVMNLJ	Bad sep
1967-067	2439675.75	1967 Jul 4 0559:59	Voskhod 11A57	-	Ya15001- 05	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	-	-
1967-F08	2439692.75	1967 Jul 21 0600:04	Voskhod 11A57	-	Ya15001- 14	5.650	RVSN	OF	S3U	G	Sat LEO O	AK15	AVMNLJ	Early shutdown
1967-S357	2439696.83	1967 Jul 25 0800	R-7A	-	E 15002- 05	0.000	RVSN	MS	-	-	OT	RML	NK9909-68	-
1967-078	2439711.74	1967 Aug 9 0545:18	Voskhod 11A57	-	Ya15001- 15	5.650	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1967-082	2439733.83	1967 Aug 31 0800:03	Molniya 8K78	M	N 15000- 81 L81	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	XPC	-
1967-F09	2439734.94	1967 Sep 1 1030	Voskhod 11A57	-	Ya15001- 03	4.700	RVSN	OF	S3P	G	Sat LEO O	NK96-10-65	XPC	Engine failed
1967-085	2439744.94	1967 Sep 11 1030	Voskhod 11A57	-	Ya15002- 11	5.650	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1967-088	2439749.75	1967 Sep 16 0606:00	Voskhod 11A57	-	Ya15001- 06	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1967-093	2439759.93	1967 Sep 26 1020	Voskhod 11A57	-	Ya15001- 07	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1967-095	2439766.71	1967 Oct 3 0500:01	Molniya 8K78	M	Ya15000- 83 L83	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	XPC	-
1967-097	2439774.98	1967 Oct 11 1130:04	Voskhod 11A57	-	Ya15002- 01	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1967-098	2439779.83	1967 Oct 16 0800	Voskhod 11A57	-	Ya15001- 17	5.650	RVSN	OS	-	G	Sat LEO O	AK15	XPC	-
1967-101	2439785.86	1967 Oct 22 0840:01	Molniya 8K78	M	Ya15000- 84 L84	2.250	RVSN	OS	-	G	Sat MOL OO 1	AK15	XPC	-
1967-102	2439788.45	1967 Oct 24 2249:09	Vostok 8A92M	-	N 15000- 56	1.250	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1967-105	2439790.90	1967 Oct 27 0929:59	Soyuz 11A511	-	U 15000- 05	6.450	RVSN	OS	-	G	Sat LEO O	NKO204-71	-	-
1967-107	2439793.84	1967 Oct 30 0812:41	Soyuz 11A511	-	N 15000- 07	6.450	RVSN	OS	-	G	Sat LEO O	NKO204-71	-	-
1967-110	2439797.97	1967 Nov 3 1120	Voskhod 11A57	-	Ya15001- 16	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1967-117	2439819.98	1967 Nov 25 1130	Voskhod 11A57	-	Ya15002- 04	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1967-119	2439828.00	1967 Dec 3 1200	Voskhod 11A57	-	Ya15002- 13	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1967-124	2439841.00	1967 Dec 16 1200:37	Voskhod 11A57	-	Ya15002- 03	4.700	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1968-003	2439872.00	1968 Jan 16 1200:01	Voskhod 11A57	-	Ya15002- 05	4.750	RVSN	OS	-	G	Sat LEO O	AK15	NK96-10-65	XPC
1968-009	2439892.83	1968 Feb 6 0800	Voskhod 11A57	-	N 15002- 14	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1968-F01	2439893.95	1968 Feb 7 1043:54	Molniya 8K78M	-	Ya15000- 57 L57	1.702	RVSN	OF	S3U	G	Sat EEO OE 1	NK9701-29	AVMNLJ	Early shutdown
1968-016	2439921.02	1968 Mar 5 1230:01	Voskhod 11A57	-	Ya15002- 02	4.750	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1968-019	2439929.90	1968 Mar 14 0934:01	Vostok 8A92M	-	G 15000- 03	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1968-021	2439932.02	1968 Mar 16 1230:00	Voskhod 11A57	-	Ya15002- 12	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1968-022	2439936.91	1968 Mar 21 0950:00	Voskhod 11A57	-	R 15000- 10	6.030	RVSN	OS	-	G	Sat LEO O	AK15/TLE	Kosmodrom6-15	-
1968-024	2439949.96	1968 Apr 3 1100	Voskhod 11A57	-	Ya15002- 06	4.750	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1968-027	2439953.92	1968 Apr 7 1009:32	Molniya 8K78M	-	Ya15000- 58 L58	2.300	RVSN	DS	-	G	Sat EEO OE 1	Petrov71	JBIS53-319	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-029	2439960.92	1968 Apr 14 1000:00	Soyuz 11A511	-	Ya15000- 09	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1968-030	2439961.90	1968 Apr 15 0934:18	Soyuz 11A511	-	U 15000- 06	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1968-032	2439964.94	1968 Apr 18 1030:01	Voskhod 11A57	-	V 15001- 12	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-034	2439966.94	1968 Apr 20 1030:00	Voskhod 11A57	-	V 15001- 01	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-035	2439967.68	1968 Apr 21 0420:01	Molniya 8K78M	-	Ya15000- 82 L82	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1968-045	2440008.95	1968 Jun 1 1050	Voskhod 11A57	-	V 15001- 02	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-046	2440011.78	1968 Jun 4 0645:02	Voskhod 11A57	-	V 15001- 13	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-049	2440020.05	1968 Jun 12 1314:59	Vostok 8A92M	-	N 15000- 58	1.280	RVSN	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1968-051	2440025.76	1968 Jun 18 0615:06	Voskhod 11A57	-	V 15001 -11	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-053	2440029.00	1968 Jun 21 1200:03	Voskhod 11A57	-	Ya15001- 12	6.030	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1968-054	2440033.96	1968 Jun 26 1100:01	Voskhod 11A57	-	Ya15002- 15	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-057	2440043.14	1968 Jul 5 1525:59	Molniya 8K78M	-	Ya15000- 84 L85	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1968-058	2440048.33	1968 Jul 10 1949:58	Voskhod 11A57	-	V 15001- 03	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-060	2440054.05	1968 Jul 16 1310:00	Voskhod 11A57	-	V 15001- 14	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-062	2440067.79	1968 Jul 30 0700:00	Voskhod 11A57	-	Ya15002- 16	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-067	2440077.79	1968 Aug 9 0700:00	Voskhod 11A57	-	Ya15002- 07	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-071	2440096.02	1968 Aug 27 1229:59	Voskhod 11A57	-	Ya15002- 17	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-072	2440096.92	1968 Aug 28 1000:00	Soyuz 11A511	-	V 15000- 13	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1968-073	2440104.79	1968 Sep 5 0700:01	Voskhod 11A57	-	V 15000- 15	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-075	2440113.78	1968 Sep 14 0650:00	Voskhod 11A57	-	V 15001- 05	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-077	2440116.02	1968 Sep 16 1230:01	Voskhod 11A57	-	V 15001- 16	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-080	2440122.82	1968 Sep 23 0739:59	Voskhod 11A57	-	R 15000- 08	6.030	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1968-085	2440134.52	1968 Oct 5 0032:00	Molniya 8K78M	-	V 15000- 86 L86	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1968-087	2440137.00	1968 Oct 7 1205:46	Voskhod 11A57	-	V 15002- 11	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-088	2440141.00	1968 Oct 11 1205:01	Voskhod 11A57	-	V 15001- 04	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-093	2440154.88	1968 Oct 25 0900:00	Soyuz 11A511	-	Ya15000-008	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1968-094	2440155.86	1968 Oct 26 0834:18	Soyuz 11A511	-	Ya15000-010	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	Kosmodrom6-15	-
1968-096	2440160.89	1968 Oct 31 0914:55	Voskhod 11A57	-	N 15001-010	6.000	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1968-102	2440174.00	1968 Nov 13 1200:01	Voskhod 11A57	-	V 15001-006	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-104	2440182.01	1968 Nov 21 1210:01	Voskhod 11A57	-	V 15001-017	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1968-105	2440190.03	1968 Nov 29 1240:34	Voskhod 11A57	-	V 15001-007	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-111	2440200.85	1968 Dec 10 0825:01	Voskhod 11A57	-	V 15002-001	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1968-115	2440206.89	1968 Dec 16 0915:03	Molniya 8K78M	-	Ya15000-039 L87	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1969-001	2440226.77	1969 Jan 5 0628:08	Molniya 8K78M	VL	V 15000-072 72	1.730	RVSN	DS	-	G	Sat EEO OE 1	Petrov71	XPC	-
1969-002	2440231.74	1969 Jan 10 0551:52	Molniya 8K78M	VL	V 15000-073 73	1.730	RVSN	DS	-	G	Sat EEO OE 1	Petrov71	XPC	-
1969-003	2440234.01	1969 Jan 12 1210:00	Voskhod 11A57	-	Ya15002-002	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-004	2440235.81	1969 Jan 14 0730:00	Soyuz 11A511	-	Ya15000-012	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1969-005	2440236.80	1969 Jan 15 0704:57	Soyuz 11A511	-	Ya15000-011	6.560	RVSN	OS	-	G	Sat LEO 0	NK0204-71	-	-
1969-008	2440244.89	1969 Jan 23 0915:00	Voskhod 11A57	-	N 15001-011	6.000	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1969-F03	2440254.01	1969 Feb 1 1211:00	Vostok 8A92M	-	V 15000-060	1.250	RVSN	OF	S2G	G	Sat LEO 0	PL-WWW	XPC	Control system f.
1969-015	2440277.93	1969 Feb 25 1020:01	Voskhod 11A57	-	V 15002-003	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-017	2440278.85	1969 Feb 26 0830:01	Voskhod 11A57	-	V 15002-014	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-022	2440287.01	1969 Mar 6 1215:01	Voskhod 11A57	-	V 15002-013	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-023	2440296.01	1969 Mar 15 1215:00	Voskhod 11A57	-	V 15002-012	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-027	2440303.01	1969 Mar 22 1215:00	Voskhod 11A57	-	V 15002-009	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-028	2440304.92	1969 Mar 24 1010:00	Voskhod 11A57	-	V 15002-018	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-029	2440307.02	1969 Mar 26 1230:00	Vostok 8A92M	-	R 15000-004	1.280	RVSN	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1969-032	2440315.93	1969 Apr 4 1020:01	Voskhod 11A57	-	V 15002-015	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-034	2440321.04	1969 Apr 9 1300:01	Voskhod 11A57	-	V 15002-010	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-035	2440322.60	1969 Apr 11 0230:01	Molniya 8K78M	-	Ya15000-084 L88	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1969-038	2440326.84	1969 Apr 15 0814:59	Voskhod 11A57	-	Yu15001-013	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-040	2440334.91	1969 Apr 23 0955:01	Voskhod 11A57	-	R 15000-007	6.000	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1969-042	2440354.89	1969 May 13 0915:01	Voskhod 11A57	-	V 15002-004	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-044	2440361.86	1969 May 20 0840:02	Voskhod 11A57	-	V 15002-017	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-048	2440370.79	1969 May 29 0659:59	Voskhod 11A57	-	Yu15001-014	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-052	2440387.87	1969 Jun 15 0859:01	Voskhod 11A57	-	Yu15001-012	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-054	2440396.78	1969 Jun 24 0650:00	Voskhod 11A57	-	V 15002-008	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-055	2440399.79	1969 Jun 27 0659:59	Voskhod 11A57	-	Yu15001-011	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-057	2440412.88	1969 Jul 10 0900:00	Voskhod 11A57	-	V 15002-016	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-060	2440425.02	1969 Jul 22 1230:00	Voskhod 11A57	-	V 15002-007	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-061	2440425.04	1969 Jul 22 1255:31	Molniya 8K78M	-	V 15000-089 L89	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1969-071	2440450.00	1969 Aug 16 1159:59	Voskhod 11A57	-	Yu15002-024	6.660	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1969-072	2440453.04	1969 Aug 19 1300:01	Voskhod 11A57	-	Yu15001-015	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-075	2440462.88	1969 Aug 29 0905:00	Voskhod 11A57	-	Yu15001-020	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-076	2440466.96	1969 Sep 2 1100:01	Voskhod 11A57	-	Yu15001-016	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-078	2440482.86	1969 Sep 18 0840:01	Voskhod 11A57	-	Yu15001-017	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-081	2440489.01	1969 Sep 24 1215:01	Voskhod 11A57	-	Yu15001-001	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-084	2440500.57	1969 Oct 6 0145:00	Vostok 8A92M	-	V 15000-061	1.280	RVSN	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1969-085	2440505.97	1969 Oct 11 1110:00	Soyuz 11A511	-	V 15000-14	6.560	RVSN	OS	-	G	Sat LEO 0	Petrov71	NK9912-70	-
1969-086	2440506.95	1969 Oct 12 1044:42	Soyuz 11A511	-	Yu15000-19	6.560	RVSN	OS	-	G	Sat LEO 0	Petrov71	NK9912-70	-
1969-087	2440507.93	1969 Oct 13 1019:09	Soyuz 11A511	-	Yu15000-18	6.560	RVSN	OS	-	G	Sat LEO 0	Petrov71	NK9912-70	-
1969-089	2440511.99	1969 Oct 17 1145:01	Voskhod 11A57	-	Yu15001-019	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-093	2440518.90	1969 Oct 24 0940:00	Voskhod 11A57	-	Yu15002-026	5.400	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-098	2440537.98	1969 Nov 12 1130:00	Voskhod 11A57	-	Yu15001-002	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1969-100	2440540.85	1969 Nov 15 0830:00	Voskhod 11A57	-	Yu15002-012	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1969-104	2440559.06	1969 Dec 3 1320:02	Voskhod 11A57	-	Yu15002-027	5.400	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	NK9909-68	-
1969-109	2440579.08	1969 Dec 23 1350:01	Voskhod 11A57	-	V 15002-019	6.010	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1970-001	2440595.89	1970 Jan 9 0920:00	Voskhod 11A57	-	Yu15002-025	5.400	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1970-007	2440608.00	1970 Jan 21 1200:00	Voskhod 11A57	-	Yu15002-011	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1970-010	2440628.00	1970 Feb 10 1200:01	Voskhod 11A57	-	Yu15002-013	5.650	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1970-013	2440637.29	1970 Feb 19 1857:15	Molniya 8K78M	M1M	V 15000-087	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	NK0709-36	-
1970-015	2440650.01	1970 Mar 4 1214:42	Voskhod 11A57	-	V 15002-005	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1970-018	2440658.83	1970 Mar 13 0800:02	Voskhod 11A57	-	V 15002-006	4.750	RVSN	OS	-	G	Sat LEO 0	NK96-10-65	XPC	-
1970-019	2440662.97	1970 Mar 17 1110:01	Vostok 8A92M	-	R 15000-005	1.280	RVSN	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1970-022	2440672.99	1970 Mar 27 1145:00	Voskhod 11A57	-	V 15002-020	6.010	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1970-023	2440679.85	1970 Apr 3 0830:00	Voskhod 11A57	-	Yu15002-032	5.400	RVSN	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-026	2440684.93	1970 Apr 8 1015:20	Voskhod 11A57	-	Yu15001-018	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-030	2440691.88	1970 Apr 15 0900:01	Voskhod 11A57	-	Yu15003-044	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-037	2440704.95	1970 Apr 28 1050:00	Vostok 8A92M	-	Yu15000-062	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1970-038	2440718.92	1970 May 12 1010:01	Voskhod 11A57	-	Yu15001-003	4.750	RVSN	OS	-	G	Sat LEO O	NK96-10-65	XPC	-
1970-039	2440726.89	1970 May 20 0920:01	Voskhod 11A57	-	Yu15002-019	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-041	2440739.29	1970 Jun 1 1900:00	Soyuz 11A511	-	Yu15000-021S	6.650	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1970-042	2440747.90	1970 Jun 10 0930:01	Voskhod 11A57	-	Yu15002-014	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-045	2440755.04	1970 Jun 17 1259:57	Voskhod 11A57	-	Yu15002-015	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-047	2440761.09	1970 Jun 23 1415:00	Vostok 8A92M	-	Yu15000-063	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1970-049	2440763.64	1970 Jun 26 0323:01	Molniya 8K78M	M1M	Yu15000-089	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1970-050	2440764.00	1970 Jun 26 1200:01	Voskhod 11A57	-	Kh76001-036	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-052	2440774.94	1970 Jul 7 1030:01	Voskhod 11A57	-	Yu15002-016	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-053	2440777.07	1970 Jul 9 1335:01	Voskhod 11A57	-	Yu15002-028	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-F06	2440789.02	1970 Jul 21 1230:01	Voskhod 11A57	-	Yu15002-017	5.650	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	Engine pressure
1970-058	2440805.90	1970 Aug 7 0930:00	Voskhod 11A57	-	Yu15002-018	5.650	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-060	2440815.73	1970 Aug 17 0538:22	Molniya 8K78M	MVL	Kh15000-062	1.530	RVSN	DS	-	G	Sat EEO OE 1	Petrov71	XPC	-
1970-065	2440820.71	1970 Aug 22 0506:09	Molniya 8K78M	MVL	Kh15000-061	1.180	RVSN	OF40	S4G	G	Sat EEO OE 1	NK9701-29	XPC	Sequencer, power supply
1970-068	2440827.85	1970 Aug 29 0830:00	Voskhod 11A57	-	Kh76002-045	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1970-071	2440837.94	1970 Sep 8 1030:00	Voskhod 11A57	-	Kh76002-046	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-074	2440846.84	1970 Sep 17 0810:01	Voskhod 11A57	-	Kh76001-034	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-075	2440852.04	1970 Sep 22 1300:01	Voskhod 11A57	-	Yu15000-003	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-077	2440858.84	1970 Sep 29 0814:01	Molniya 8K78M	M1M	Yu15000-090	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1970-078	2440860.85	1970 Oct 1 0820:03	Voskhod 11A57	-	Yu15002-029	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-080	2440868.03	1970 Oct 8 1239:02	Voskhod 11A57	-	7705711-121	6.840	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-082	2440868.96	1970 Oct 9 1104:58	Voskhod 11A57	-	Kh76002-049	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-085	2440874.97	1970 Oct 15 1122:02	Vostok 8A92M	-	Yu15000-065	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1970-092	2440890.06	1970 Oct 30 1320:00	Voskhod 11A57	-	Kh76002-047	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-096	2440901.89	1970 Nov 11 0920:01	Voskhod 11A57	-	Kh76001-035	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-099	2440914.72	1970 Nov 24 0515:01	Soyuz 11A511L	-	Yu15000-016	5.560	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9525-32	-
1970-101	2440918.16	1970 Nov 27 1547:17	Molniya 8K78M	-	Kh15000-095	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1970-104	2440924.08	1970 Dec 3 1355:19	Voskhod 11A57	-	Kh15000-004	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-105	2440930.97	1970 Dec 10 1110:00	Voskhod 11A57	-	Yu15002-031	6.840	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-110	2440935.92	1970 Dec 15 1000:01	Voskhod 11A57	-	Kh76002-051	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-113	2440939.18	1970 Dec 18 1615:00	Vostok 8A92M	-	R 15000-006	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1970-114	2440945.66	1970 Dec 25 0350:02	Molniya 8K78M	-	V 15000-078 94	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1971-001	2440963.90	1971 Jan 12 0930:01	Voskhod 11A57	-	7705712-216	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-003	2440971.98	1971 Jan 20 1124:00	Vostok 8A92M	-	Kh15000-005	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1971-004	2440972.86	1971 Jan 21 0840:01	Voskhod 11A57	-	Kh76001-038	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-014	2441001.08	1971 Feb 18 1359:59	Voskhod 11A57	-	Kh76002-048	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9909-68	-
1971-016	2441008.71	1971 Feb 26 0506:21	Soyuz 11A511L	-	Yu15000-015	5.560	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9525-32	-
1971-017	2441013.90	1971 Mar 3 0930:01	Voskhod 11A57	-	7705712-220	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-F03	2441015.54	1971 Mar 5 0102:03	Voskhod 11A57	-	Kh76001-037	6.000	RVSN	OF	S1E	G	Sat LEO O	AK15	AVMNLJ	Battery failure
1971-023	2441037.96	1971 Mar 27 1059:59	Voskhod 11A57	-	7705712-219	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-026	2441043.85	1971 Apr 2 0820:00	Voskhod 11A57	-	Kh76001-039	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-028	2441048.80	1971 Apr 7 0710:01	Vostok 8A92M	-	Yu15000-064	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-029	2441055.83	1971 Apr 14 0800:00	Voskhod 11A57	-	Kh76002-050	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-031	2441058.99	1971 Apr 17 1144:58	Vostok 8A92M	-	Ya15000-059	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1971-034	2441064.50	1971 Apr 22 2354:06	Soyuz 11A511	-	Kh15000-025	6.560	RVSN	OS	-	G	Sat LSS O	NK9611-46	VSA074	-
1971-040	2441077.76	1971 May 6 0620:01	Voskhod 11A57	-	7705711-122	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-043	2441089.83	1971 May 18 0800:00	Voskhod 11A57	-	7705712-218	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-048	2441099.94	1971 May 28 1030:00	Voskhod 11A57	-	Kh15002-052	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-053	2441108.70	1971 Jun 6 0455:09	Soyuz 11A511	-	Kh15000-024	6.560	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1971-055	2441113.92	1971 Jun 11 1000:00	Voskhod 11A57	-	7801424-715	6.010	RVSN	OS	-	G	Sat LSS O	AK15/RAEX	XPC	-
1971-057	2441126.83	1971 Jun 24 0759:59	Voskhod 11A57	-	7705711-123	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-F05	2441127.94	1971 Jun 25 1030:01	Voskhod 11A57	-	7801422-235	5.980	RVSN	OF	S1P	G	Sat LEO O	AK15	AVMNLJ	Blok V engine out
1971-059	2441148.57	1971 Jul 16 0141:36	Vostok 8A92M	-	7705711-308	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1971-061	2441152.92	1971 Jul 20 1000:00	Voskhod 11A57	-	7705712-221	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-062	2441155.96	1971 Jul 23 1100:09	Voskhod 11A57	-	7705712-215	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-064	2441160.65	1971 Jul 28 0329:01	Molniya 8K78M	-	Kh15000-096	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1971-065	2441162.85	1971 Jul 30 0829:54	Voskhod 11A57	-	7801421-141	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-066	2441168.92	1971 Aug 5 1000:00	Voskhod 11A57	-	7801422-242	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-069	2441175.73	1971 Aug 12 0530:00	Soyuz 11A511L	-	Yu15000-017	5.560	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK9525-32	-
1971-F09	2441182.77	1971 Aug 19 0630:00	Voskhod 11A57	-	Kh76001-040	5.980	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	Engine fail T+1:57
1971-077	2441209.04	1971 Sep 14 1300:29	Voskhod 11A57	-	7702424-716	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-078	2441216.00	1971 Sep 21 1200:00	Voskhod 11A57	-	7705711-124	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-081	2441222.82	1971 Sep 28 0740:00	Voskhod 11A57	-	7705712-224 ?	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-084	2441223.98	1971 Sep 29 1130:01	Voskhod 11A57	-	7705712-222	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-085	2441232.02	1971 Oct 7 1230:00	Voskhod 11A57	-	7801421-135	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-088	2441238.88	1971 Oct 14 0900:01	Voskhod 11A57	-	7705712-223	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-094	2441258.10	1971 Nov 2 1425:02	Voskhod 11A57	-	7705712-217	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-098	2441275.00	1971 Nov 19 1200:01	Voskhod 11A57	-	7705712-214	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-100	2441279.90	1971 Nov 24 0930:02	Molniya 8K78M	-	Yu15000-092	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1971-F12	2441289.04	1971 Dec 3 1300:01	Voskhod 11A57	-	7801421-137	6.000	RVSN	OF	PE	G	Sat LEO O	AK15	AVMNLJ	FOD in Blok A
1971-107	2441291.91	1971 Dec 6 0950:01	Voskhod 11A57	-	Kh76002-053	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-108	2441295.96	1971 Dec 10 1100:00	Voskhod 11A57	-	7801422-238	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-112	2441301.90	1971 Dec 16 0939:59	Voskhod 11A57	-	7801422-236	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1971-115	2441305.45	1971 Dec 19 2250:12	Molniya 8K78M	-	7705711-497	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1971-118	2441313.09	1971 Dec 27 1404:51	Soyuz 11A511M	-	Yu15000-001	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK0709-36	-
1971-120	2441314.95	1971 Dec 29 1050:01	Vostok 8A92M	-	7705711-307	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1972-001	2441328.92	1972 Jan 12 0959:59	Voskhod 11A57	-	7702423-247	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-006	2441350.86	1972 Feb 3 0840:00	Voskhod 11A57	-	7801421-136	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-008	2441363.90	1972 Feb 16 0930:00	Voskhod 11A57	-	7801422-240	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-011	2441377.97	1972 Mar 1 1115:00	Vostok 8A92M	-	S 15000-009	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-013	2441380.92	1972 Mar 4 1000:00	Voskhod 11A57	-	7801421-138	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-015	2441392.04	1972 Mar 15 1300:01	Voskhod 11A57	-	7702423-252	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-021	2441403.68	1972 Mar 27 0415:01	Molniya 8K78M	MVL	S 15000-063	1.534	RVSN	DS	-	G	Sat EEO OE 1	NK9707-75	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-022	2441407.09	1972 Mar 30 1405:01	Vostok 8A92M	-	7702421-334	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1972-023	2441407.67	1972 Mar 31 0402:33	Molniya 8K78M	MVL	7801421-513	1.654	RVSN	OF40	S4U	G	Sat EEO OE 1	NK9701-29	XPC Not S15000-064	Timer error, early shutdown
1972-024	2441410.93	1972 Apr 3 1015:00	Voskhod 11A57	-	7801422-245	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-025	2441412.36	1972 Apr 4 2038:30	Molniya 8K78M	-	Yu15000-093	1.993	RVSN	OS	-	G	Sat MOL OO 1	NK9707-75	NK9909-68	-
1972-026	2441413.83	1972 Apr 6 0800:00	Voskhod 11A57	-	7801421-139	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-027	2441414.92	1972 Apr 7 1000:00	Voskhod 11A57	-	Kh15000-013	5.886	RVSN	OS	-	G	Sat LEO O	NK9521-43	Kosmodrom6-15	-
1972-029	2441421.54	1972 Apr 14 0054:36	Molniya 8K78M	SOL	Kh15000-079	1.173	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1972-030	2441421.83	1972 Apr 14 0800:00	Voskhod 11A57	-	7702423-253	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-034	2441442.97	1972 May 5 1120:00	Voskhod 11A57	-	7702424-717	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-036	2441454.93	1972 May 17 1019:59	Voskhod 11A57	-	7701421-140	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-037	2441457.10	1972 May 19 1430:03	Molniya 8K78M	-	Yu15000-091	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1972-038	2441462.77	1972 May 25 0635:00	Voskhod 11A57	-	7801422-244	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-040	2441477.79	1972 Jun 9 0659:59	Voskhod 11A57	-	7702423-250	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-042	2441489.77	1972 Jun 21 0625:00	Voskhod 11A57	-	7801421-142	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-044	2441491.97	1972 Jun 23 1119:57	Voskhod 11A57	-	7801422-239	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-045	2441495.12	1972 Jun 26 1453:00	Soyuz 11A511	-	Yu15000-020	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1972-046	2441497.66	1972 Jun 29 0347:35	Molniya 8K78M	SOL	M 15000-108	1.173	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1972-049	2441499.29	1972 Jun 30 1852:01	Vostok 8A92M	-	7801421-333	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1972-051	2441504.94	1972 Jul 6 1040:00	Voskhod 11A57	-	7702423-246	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-055	2441512.10	1972 Jul 13 1430:25	Soyuz 11A511M	-	Kh15000-002	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-056	2441518.07	1972 Jul 19 1345:00	Voskhod 11A57	-	78033 -267	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-059	2441526.93	1972 Jul 28 1019:00	Voskhod 11A57	-	7702421-143	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-060	2441531.84	1972 Aug 2 0815:00	Voskhod 11A57	-	78033 -266	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-063	2441547.92	1972 Aug 18 1000:01	Voskhod 11A57	-	7702424-718	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-067	2441559.85	1972 Aug 30 0819:59	Voskhod 11A57	-	7702421-144	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-F05	2441562.95	1972 Sep 2 1049:59	Voskhod 11A57	-	78033- 271	5.980	RVSN	OF	S2G	G	Sat LEO O	AK15	AVMNLJ	Steering oscillations
1972-070	2441575.90	1972 Sep 15 0940:00	Voskhod 11A57	-	78033- 156	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-071	2441576.85	1972 Sep 16 0820:00	Voskhod 11A57	-	78033 -268	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-072	2441580.30	1972 Sep 19 1919:03	Molniya 8K78M	2BL	S 15000-100	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1972-075	2441591.35	1972 Sep 30 2019:01	Molniya 8K78M	-	S 15000-106	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1972-077	2441595.00	1972 Oct 4 1200:02	Voskhod 11A57	-	78033- 272	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-081	2441604.76	1972 Oct 14 0616:00	Molniya 8K78M	-	7705711-498	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1972-083	2441609.00	1972 Oct 18 1159:59	Voskhod 11A57	-	76043- 161	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-085	2441617.42	1972 Oct 26 2205:01	Vostok 8A92M	-	Kh15000-006	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1972-086	2441622.06	1972 Oct 31 1329:59	Voskhod 11A57	-	78033- 729	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-093	2441646.88	1972 Nov 25 0910:01	Voskhod 11A57	-	78033 -157	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-095	2441653.69	1972 Dec 2 0439:57	Molniya 8K78M	-	7801421-512	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1972-098	2441663.79	1972 Dec 12 0651:01	Molniya 8K78M	-	76043- 537	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1972-099	2441666.07	1972 Dec 14 1340:02	Voskhod 11A57	-	76043- 274	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-105	2441678.94	1972 Dec 27 1030:04	Soyuz 11A511M	-	S 15000-003	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1972-106	2441679.96	1972 Dec 28 1100:00	Vostok 8A92M	-	S 15000-012	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-002	2441693.92	1973 Jan 11 1000:00	Voskhod 11A57	-	78033 -270	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-006	2441714.85	1973 Feb 1 0830:00	Voskhod 11A57	-	78033 -159	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-007	2441716.74	1973 Feb 3 0548:59	Molniya 8K78M	-	7801421-514	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-008	2441722.05	1973 Feb 8 1315:00	Voskhod 11A57	-	7801422-237	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-009	2441728.55	1973 Feb 15 0111:53	Molniya 8K78M	SOL	M 15000-118	1.173	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1973-011	2441743.03	1973 Mar 1 1240:02	Voskhod 11A57	-	78033- 730	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-012	2441747.89	1973 Mar 6 0920:00	Voskhod 11A57	-	7702423-249	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-015	2441761.97	1973 Mar 20 1120:02	Vostok 8A92M	-	7702421-335	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1973-016	2441763.92	1973 Mar 22 1000:00	Voskhod 11A57	-	78033- 158	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-018	2441777.97	1973 Apr 5 1111:00	Molniya 8K78M	-	M 15000-115	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-021	2441791.87	1973 Apr 19 0859:59	Voskhod 11A57	-	76043 -733	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-024	2441797.95	1973 Apr 25 1045:00	Voskhod 11A57	-	77019 -173	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-025	2441807.79	1973 May 5 0700:00	Voskhod 11A57	-	77019 -751	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-030	2441820.96	1973 May 18 1100:02	Soyuz-U	-	76043 -731	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	NK0709-36	-
1973-031	2441825.94	1973 May 23 1030:00	Voskhod 11A57	-	7702423-248	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-033	2441828.06	1973 May 25 1330:01	Voskhod 11A57	-	78033 -160	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-034	2441831.93	1973 May 29 1016:03	Vostok 8A92M	-	7702421-335? (336?)	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1973-036	2441839.98	1973 Jun 6 1130:00	Voskhod 11A57	-	7801422-241	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-038	2441843.92	1973 Jun 10 1010:00	Voskhod 11A57	-	7702423-251	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-041	2441848.75	1973 Jun 15 0600:00	Soyuz 11A511	-	S 15000-027	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1973-043	2441855.06	1973 Jun 21 1329:57	Voskhod 11A57	-	77019 -176	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-044	2441860.99	1973 Jun 27 1150:01	Soyuz 11A511M	-	Kh15000-004	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-F05	2441867.96	1973 Jul 4 1059:59	Voskhod 11A57	-	7801422-243	5.690	RVSN	OF	S2G	G	Sat LEO O	AK15	AVMNLJ	Circuit design error, pitch
1973-045	2441874.92	1973 Jul 11 0958:00	Molniya 8K78M	-	76043 -533	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-048	2441888.98	1973 Jul 25 1130:00	Voskhod 11A57	-	7702423-254	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-051	2441896.08	1973 Aug 1 1400:01	Voskhod 11A57	-	77019 -174	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-055	2441916.02	1973 Aug 21 1230:01	Voskhod 11A57	-	78033 -265	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-059	2441918.96	1973 Aug 24 1059:55	Voskhod 11A57	-	76043 -273	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-061	2441924.51	1973 Aug 30 0007:59	Molniya 8K78M	-	7705711-499	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-062	2441924.94	1973 Aug 30 1030:02	Voskhod 11A57	-	76043 -162	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-063	2441931.94	1973 Sep 6 1040:01	Voskhod 11A57	-	77019 -285	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-066	2441947.05	1973 Sep 21 1305:01	Soyuz-U	-	76043 -732	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-067	2441953.01	1973 Sep 27 1218:16	Soyuz 11A511	-	S 15000-026	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1973-070	2441959.04	1973 Oct 3 1300:00	Voskhod 11A57	-	7702421-145	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-071	2441962.02	1973 Oct 6 1230:00	Voskhod 11A57	-	76043 -736	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-072	2441965.95	1973 Oct 10 1045:00	Voskhod 11A57	-	77019 -286	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-073	2441970.86	1973 Oct 15 0845:00	Voskhod 11A57	-	77019 -175	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-074	2441972.00	1973 Oct 16 1200:04	Voskhod 11A57	-	77019 -288	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-076	2441974.93	1973 Oct 19 1026:01	Molniya 8K78M	-	77019 -549	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-077	2441975.93	1973 Oct 20 1014:58	Voskhod 11A57	-	76019 -752	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-079	2441982.97	1973 Oct 27 1109:59	Voskhod 11A57	-	77019 -287	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-080	2441985.08	1973 Oct 29 1400:14	Vostok 8A92M	-	M 15000-020	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-083	2441987.27	1973 Oct 31 1824:59	Soyuz-U	-	A 15000-004	6.260	RVSN	OS	-	G	Sat LEO O	NK96-26-34	NK9909-68	-
1973-084	2441989.04	1973 Nov 2 1301:56	Molniya 8K78M	2BL	M 15000-116	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1973-087	2441997.03	1973 Nov 10 1238:27	Voskhod 11A57	-	76029 -758	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-089	2442001.36	1973 Nov 14 2040:02	Molniya 8K78M	-	78014 -215-15	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-092	2442007.92	1973 Nov 21 1000:00	Voskhod 11A57	-	77019 -177	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-095	2442014.99	1973 Nov 28 1143:05	Voskhod 11A57	-	76029 -759	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-096	2442016.72	1973 Nov 30 0520:00	Soyuz 11A511	-	S 15000-029	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1973-097	2442017.05	1973 Nov 30 1308:59	Molniya 8K78M	-	77019 -550	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1973-102	2442034.00	1973 Dec 17 1200:01	Soyuz 11A511M	-	76043 -825	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-103	2442035.00	1973 Dec 18 1155:00	Soyuz 11A511	-	S 15000-028	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1973-105	2442038.02	1973 Dec 21 1230:00	Voskhod 11A57	-	76029 -755	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1973-106	2442041.97	1973 Dec 25 1117:00	Molniya 8K78M	-	76029 -555	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-003	2442072.13	1974 Jan 24 1500:01	Voskhod 11A57	-	77019 -178	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-004	2442077.96	1974 Jan 30 1100	Voskhod 11A57	-	78033 -735	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-006	2442090.87	1974 Feb 12 0856:00	Voskhod 11A57	-	77019 -290	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-011	2442111.98	1974 Mar 5 1138:00	Vostok 8A92M	-	76043 -350	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1974-014	2442120.94	1974 Mar 14 1029:59	Voskhod 11A57	-	78031 -191	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-016	2442126.85	1974 Mar 20 0830:00	Soyuz-U	-	A 15000-006	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-018	2442140.81	1974 Apr 3 0730:00	Soyuz-U	-	A 15000-009	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1974-019	2442141.85	1974 Apr 4 0830	Voskhod 11A57	-	76043 -734	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-021	2442149.02	1974 Apr 11 1222:59	Voskhod 11A57	-	78031 -192	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-F02	2442149.83	1974 Apr 12 0800:01	Voskhod 11A57	-	76029 -757	5.675	RVSN	OF	S3P	G	Sat LEO O	AK15	AVMNLJ	T+4:57 failed
1974-023	2442158.37	1974 Apr 20 2053:44	Molniya 8K78M	ML	7702421-516	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-025	2442161.99	1974 Apr 24 1150:00	Vostok 8A92M	-	78033 -347	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1974-026	2442164.10	1974 Apr 26 1422:59	Molniya 8K78M	-	76029 -554	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-027	2442167.06	1974 Apr 29 1329:59	Voskhod 11A57	-	76043 -737 ?	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-030	2442182.85	1974 May 15 0830:00	Soyuz-U	-	A 15000-008	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-031	2442183.02	1974 May 15 1230	Voskhod 11A57	-	78031 -193	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-F03	2442191.01	1974 May 23 1216:51	Soyuz-U	-	A 15000-005	5.180	RVSN	OF	S2S	G	Sat LEO O	NK9718-91	XPC	S2/S3 sep
1974-036	2442194.81	1974 May 27 0725:00	Soyuz 11A511	-	A 15000-032	6.800	RVSN	OS	-	G	Sat LEO O	AK15	NK0204-71	-
1974-038	2442198.03	1974 May 30 1244:59	Voskhod 11A57	-	76029 -762	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-041	2442204.76	1974 Jun 6 0620:00	Voskhod 11A57	-	77033 -267	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-043	2442212.02	1974 Jun 13 1229:59	Voskhod 11A57	-	77019 -753?	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-049	2442228.03	1974 Jun 29 1250:02	Soyuz 11A511M	-	7602983- 7	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-050	2442228.17	1974 Jun 29 1559:58	Molniya 8K78M	2BL	A 15000-121	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1974-051	2442232.29	1974 Jul 3 1851:08	Soyuz 11A511	-	S 15000-031	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1974-052	2442238.11	1974 Jul 9 1439:58	Vostok 8A92M	-	76043 -349	1.280	RVSN	OS	-	G	Sat LEO O	NK9817-38	NK9909-68	-
1974-053	2442241.03	1974 Jul 12 1250:01	Voskhod 11A57	-	76029 -761	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-056	2442251.56	1974 Jul 23 0123:01	Molniya 8K78M	-	78033 -529	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-057	2442253.79	1974 Jul 25 0700:00	Voskhod 11A57	-	77019 -289	6.000	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-059	2442254.79	1974 Jul 26 0659:59	Voskhod 11A57	-	76029 -180	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-061	2442265.50	1974 Aug 6 0002:00	Soyuz-U	-	K 15000-011	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1974-062	2442267.03	1974 Aug 7 1249:59	Voskhod 11A57	-	76029 -760	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-064	2442271.77	1974 Aug 12 0625:02	Soyuz-U	-	K 15000-007	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1974-066	2442275.65	1974 Aug 16 0341	Vostok 8A92M	-	78033 -325	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-067	2442286.33	1974 Aug 26 1958:05	Soyuz 11A511	-	S 15000-030	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1974-068	2442288.82	1974 Aug 29 0739:59	Voskhod 11A57	-	78031 -774	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-F06	2442289.88	1974 Aug 30 0900:01	Voskhod 11A57	-	78031 -196	5.630	RVSN	OF	S2P	G	Sat LEO O	AK15	AVMNLJ	Early H2O2 depletion
1974-073	2442310.90	1974 Sep 20 0930:00	Voskhod 11A57	-	78031 -194	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-078	2442339.12	1974 Oct 18 1500	Voskhod 11A57	-	77019 -754	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-080	2442343.25	1974 Oct 22 1759:59	Soyuz-U	-	K 15000-010	6.080	RVSN	OS	-	G	Sat LEO O	AK15/NK96-26-34	NK9909-68	-
1974-081	2442345.03	1974 Oct 24 1238:41	Molniya 8K78M	-	78033 -528	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-082	2442345.90	1974 Oct 25 0930:01	Soyuz-U	-	K 15000-012	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-083	2442348.93	1974 Oct 28 1017:00	Vostok 8A92M	-	77019 -352	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1974-087	2442353.10	1974 Nov 1 1420	Voskhod 11A57	-	78031 -179	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-088	2442355.94	1974 Nov 4 1040	Soyuz 11A511M	-	76029 -836	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-090	2442367.99	1974 Nov 16 1145	Voskhod 11A57	-	76029 -763	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-092	2442372.94	1974 Nov 21 1033:01	Molniya 8K78M	-	78031 -572	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1974-095	2442378.99	1974 Nov 27 1144:59	Voskhod 11A57	-	78031 -197	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1974-096	2442383.90	1974 Dec 2 0940:00	Soyuz-U	-	K 15000-014	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1974-098	2442395.06	1974 Dec 13 1330	Soyuz-U	-	A 15000-003	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1974-099	2442398.99	1974 Dec 17 1145:00	Vostok 8A92M	-	77019 -353	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1974-102	2442402.60	1974 Dec 21 0219:59	Molniya 8K78M	-	78033 -530	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1974-106	2442408.88	1974 Dec 27 0910:00	Voskhod 11A57	-	76043 -738	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-001	2442423.41	1975 Jan 10 2143:37	Soyuz 11A511	-	Kh15000-022	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1975-002	2442429.88	1975 Jan 17 0900:00	Voskhod 11A57	-	Kh76001- 33	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAE	XPC	-
1975-005	2442435.96	1975 Jan 23 1100	Voskhod 11A57	-	78031 -775	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-007	2442443.13	1975 Jan 30 1502	Molniya 8K78M	2BL	78031 -574	1.578	RVSN	OS	-	G	Sat LEO O	NK9715-48	XPC	-
1975-009	2442449.70	1975 Feb 6 0449	Molniya 8K78M	-	76043 -532	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-013	2442456.10	1975 Feb 12 1430	Voskhod 11A57	-	78031 -777? (177)	6.010	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-015	2442469.88	1975 Feb 26 0900:00	Voskhod 11A57	-	78031 -778	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-018	2442483.87	1975 Mar 12 0855:00	Voskhod 11A57	-	77019 -750	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-019	2442492.78	1975 Mar 21 0650	Soyuz-U	-	76041 -851	6.680	RVSN	OS	-	G	Sat LEO O	AK15/TLE	XPC	-
1975-020	2442497.87	1975 Mar 26 0850	Voskhod 11A57	-	76041 -199	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-021	2442498.83	1975 Mar 27 0800:00	Voskhod 11A57	-	78031 -781	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-023	2442504.02	1975 Apr 1 1230:00	Vostok 8A92M	-	76041 -366	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1975-F02	2442507.96	1975 Apr 5 1104:54	Soyuz 11A511	-	Kh15000-023	4.130	RVSN	OF	S2S	G	Sat LSS O	NK0204-71	-	Incomplete sep, abort
1975-029	2442517.25	1975 Apr 14 1752:59	Molniya 8K78M	ML	76043 -531	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1975-030	2442518.83	1975 Apr 16 0800:01	Soyuz-U	-	76041 -849	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-031	2442520.92	1975 Apr 18 1000	Voskhod 11A57	-	77016 -212	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-035	2442526.84	1975 Apr 24 0804:59	Voskhod 11A57	-	76041 -788	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-036	2442531.93	1975 Apr 29 1023:59	Molniya 8K78M	ML	M 15000-064	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-041	2442553.79	1975 May 21 0659:32	Voskhod 11A57	-	78031 -195	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-044	2442557.12	1975 May 24 1458:10	Soyuz 11A511	-	F 15000-033	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1975-046	2442560.81	1975 May 28 0729:59	Voskhod 11A57	-	77016 -655	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-047	2442562.78	1975 May 30 0645	Voskhod 11A57	-	77016 -215	6.030	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1975-048	2442567.06	1975 Jun 3 1320:48	Voskhod 11A57	-	76029 -756	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-049	2442568.57	1975 Jun 5 0137:59	Molniya 8K78M	ML	76041 -579	2.000	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-053	2442576.02	1975 Jun 12 1230:27	Soyuz-U	-	76041 -850	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-056	2442583.79	1975 Jun 20 0654	Vostok 8A92M	-	76043 -324	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-059	2442589.04	1975 Jun 25 1259:58	Voskhod 11A57	-	76041 -785	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-060	2442591.04	1975 Jun 27 1300	Voskhod 11A57	-	76041 -198	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-061	2442597.07	1975 Jul 3 1340	Voskhod 11A57	-	76041 -776	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-063	2442601.71	1975 Jul 8 0505	Molniya 8K78M	ML	78019 -552	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-064	2442604.68	1975 Jul 11 0415:00	Vostok 8A92M	-	77016 -383	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1975-065	2442609.01	1975 Jul 15 1220:00	Soyuz-U	-	F 15000-017	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1975-068	2442617.04	1975 Jul 23 1300	Voskhod 11A57	-	76041 -200	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-071	2442625.04	1975 Jul 31 1300	Voskhod 11A57	-	76041 -786	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-073	2442637.81	1975 Aug 13 0721:04	Voskhod 11A57	-	78031 -782	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-076	2442646.59	1975 Aug 22 0210:59	Vostok 8A92M	-	76031 -371	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-078	2442652.11	1975 Aug 27 1445	Voskhod 11A57	-	76041 -787	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-079	2442658.05	1975 Sep 2 1309	Molniya 8K78M	ML	78031 -571	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-080	2442661.12	1975 Sep 5 1449:59	Soyuz-U	-	A 15000-016	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1975-081	2442664.51	1975 Sep 9 0019:06	Molniya 8K78M	ML	76029 -560	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-084	2442667.73	1975 Sep 12 0530	Soyuz-U	-	77016 -662	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-085	2442671.88	1975 Sep 16 0900:00	Voskhod 11A57	-	76041 -789	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-087	2442673.51	1975 Sep 18 0012	Vostok 8A92M	-	76029 -354	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1975-088	2442678.92	1975 Sep 23 0959:59	Voskhod 11A57	-	77016 -214	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-090	2442680.91	1975 Sep 25 0949:59	Soyuz-U	-	77016 -011	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1975-093	2442684.68	1975 Sep 29 0415:00	Soyuz-U	-	F 15000-021	6.850	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1975-095	2442686.85	1975 Oct 1 0830:00	Voskhod 11A57	-	76041 -790	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-101	2442703.10	1975 Oct 17 1429:59	Voskhod 11A57	-	77041 -216	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-104	2442721.14	1975 Nov 4 1519:58	Voskhod 11A57	-	76041 -791	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-105	2442731.30	1975 Nov 14 1913:58	Molniya 8K78M	ML	77016 -588	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1975-106	2442734.11	1975 Nov 17 1436:37	Soyuz-U	-	K 15000- 15	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1975-108	2442737.89	1975 Nov 21 0920:00	Voskhod 11A57	-	77016 -213	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-110	2442742.21	1975 Nov 25 1700	Soyuz-U	-	F 15000-022	6.260	RVSN	OS	-	G	Sat LEO O	NK96-26-34	NK9909-68	-
1975-113	2442749.92	1975 Dec 3 1000	Voskhod 11A57	-	76041 -201	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-120	2442762.91	1975 Dec 16 0950:00	Voskhod 11A57	-	76041 -792	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1975-121	2442763.96	1975 Dec 17 1106:01	Molniya 8K78M	ML	78031 -567	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1975-122	2442768.59	1975 Dec 22 0208:00	Molniya 8K78M	SOL	76041 -575	1.233	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1975-124	2442772.29	1975 Dec 25 1900:00	Vostok 8A92M	-	76041 -368	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1975-125	2442773.93	1975 Dec 27 1022:02	Molniya 8K78M	ML	F 15000-142	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1976-002	2442785.15	1976 Jan 7 1534:58	Voskhod 11A57	-	76041 -793	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-006	2442799.98	1976 Jan 22 1138:00	Molniya 8K78M	ML	76029 -559	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1976-009	2442806.85	1976 Jan 29 0830:00	Voskhod 11A57	-	77016 -218	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-013	2442819.87	1976 Feb 11 0850:00	Voskhod 11A57	-	77016 -658	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-018	2442829.08	1976 Feb 20 1401:02	Soyuz-U	-	K 15000-013	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1976-020	2442847.83	1976 Mar 10 0800:00	Soyuz-U	-	78026 -666	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-021	2442849.32	1976 Mar 11 1945	Molniya 8K78M	ML	78031 -575	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1976-024	2442854.22	1976 Mar 16 1722	Vostok 8A92M	-	78026 -387	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-025	2442855.89	1976 Mar 18 0915:00	Soyuz-U	-	78026 -222	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-026	2442857.31	1976 Mar 19 1931:00	Molniya 8K78M	ML	76029 -558	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1976-028	2442864.12	1976 Mar 26 1500	Voskhod 11A57	-	77016 -656	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-030	2442869.03	1976 Mar 31 1250:03	Soyuz 11A511M	-	76029 -838	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-032	2442876.05	1976 Apr 7 1305:00	Vostok 8A92M	-	76041 -369	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1976-033	2442877.85	1976 Apr 9 0830	Voskhod 11A57	-	77016 -217	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-036	2442896.90	1976 Apr 28 0930	Voskhod 11A57	-	76041 -784	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-040	2442903.83	1976 May 5 0750:00	Voskhod 11A57	-	77016 -660	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-041	2442911.25	1976 May 12 1757	Molniya 8K78M	ML	77016 -598	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1976-043	2442914.06	1976 May 15 1330	Vostok 8A92M	-	76042 -388	1.280	RVSN	OS	-	G	Sat LEO O	NK9817-36	NK9909-68	-
1976-045	2442918.88	1976 May 20 0900:00	Voskhod 11A57	-	77016 -219	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-046	2442919.79	1976 May 21 0700	Soyuz-U	-	76042 -022	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1976-048	2442924.88	1976 May 26 0900	Voskhod 11A57	-	77016 -659	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-052	2442937.79	1976 Jun 8 0700:00	Voskhod 11A57	-	77016 -657	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-055	2442946.05	1976 Jun 16 1309:58	Voskhod 11A57	-	77016 -654	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-058	2442953.80	1976 Jun 24 0710:01	Soyuz-U	-	78026 -220	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-060	2442958.81	1976 Jun 29 0720:00	Voskhod 11A57	-	77016 -661	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-062	2442960.84	1976 Jul 1 0805:38	Molniya 8K78M	ML	77016 -594	1.978	RVSN	OF40	S4P	G	Sat MOL OO 1	NK9701-29	XPC	Underburn
1976-064	2442966.01	1976 Jul 6 1208:45	Soyuz 11A511	-	F 15000-034	6.800	RVSN	OS	-	G	Sat LSS O	JBIS55-45	-	-
1976-068	2442973.88	1976 Jul 14 0900	Soyuz-U	-	78026 -221	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-072	2442982.15	1976 Jul 22 1540:01	Soyuz-U	-	78026 -958	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1976-074	2442983.16	1976 Jul 23 1549:00	Molniya 8K78M	ML	76029 -556	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1976-079	2442995.07	1976 Aug 4 1340	Soyuz-U	-	78026 -668	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-082	2443003.06	1976 Aug 12 1330	Soyuz-U	-	76042 -241	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-085	2443018.11	1976 Aug 27 1434:58	Vostok 8A92M	-	78026 -385	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-086	2443018.88	1976 Aug 28 0900:00	Soyuz-U	-	76042 -690	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC/NKF	-
1976-088	2443022.64	1976 Sep 1 0323	Molniya 8K78M	ML	76041 -576	1.978	RVSN	OF40	S4I	G	Sat MOL OO 1	NK9701-29	XPC	Valve failure
1976-090	2443024.89	1976 Sep 3 0920	Soyuz-U	-	78026 -665	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-093	2443036.91	1976 Sep 15 0948:30	Soyuz-U	-	E 15000-069	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1976-095	2443042.99	1976 Sep 21 1140	Soyuz-U	-	78026 -862	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-096	2443043.90	1976 Sep 22 0930:00	Soyuz-U	-	76042 -240	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-097	2443046.12	1976 Sep 24 1500	Soyuz-U	-	78026 -669	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-F02	2443055.96	1976 Oct 4 1100	Soyuz-U	-	E 15000-056	5.815	RVSN	OF	S1S	G	Sat LEO O	NK96-26-40	XPC	Premature sep
1976-099	2443061.90	1976 Oct 10 0935	Soyuz-U	-	78026 -664	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-100	2443066.24	1976 Oct 14 1739:18	Soyuz 11A511	-	E 15000-035	6.800	RVSN	OS	-	G	Sat LSS O	JBIS55-45	-	-
1976-102	2443067.46	1976 Oct 15 2259:38	Vostok 8A92M	-	76041 -370	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1976-105	2443073.88	1976 Oct 22 0911:59	Molniya 8K78M	2BL	78026 -600	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1976-106	2443077.10	1976 Oct 25 1430	Soyuz-U	-	78026 -686	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-109	2443083.97	1976 Nov 1 1120	Soyuz-U	-	78026 -223	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-110	2443093.95	1976 Nov 11 1045	Soyuz-U	-	78026 -673	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-111	2443106.19	1976 Nov 23 1627	Soyuz-U	-	E 15000-052	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-112	2443107.67	1976 Nov 25 0359:00	Molniya 8K78M	SOL	E 15000-153	1.258	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1976-114	2443112.17	1976 Nov 29 1600:00	Soyuz-U	-	E 15000-071	6.850	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1976-116	2443114.61	1976 Dec 2 0244:57	Molniya 8K78M	ML	78026 -597	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-119	2443121.92	1976 Dec 9 1000	Soyuz-U	-	76042 -238	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-123	2443129.90	1976 Dec 17 0930:00	Soyuz-U	-	78026 -674	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1976-127	2443140.78	1976 Dec 28 0638	Molniya 8K78M	ML	76042 -602	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1977-001	2443149.90	1977 Jan 6 0940:00	Soyuz-U	-	78026 -675	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-002	2443150.47	1977 Jan 6 2317	Vostok 8A92M	-	76042 -390	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1977-003	2443163.85	1977 Jan 20 0830:00	Soyuz-U	-	78026 -224	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-008	2443182.17	1977 Feb 7 1611:50	Soyuz-U	-	E 15000-092	6.800	RVSN	OS	-	G	Sat LSS O	AK15	NK9703-47	-
1977-009	2443183.98	1977 Feb 9 1130	Soyuz-U	-	78026 -667	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-010	2443186.12	1977 Feb 11 1457	Molniya 8K78M	ML	76041 -577	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1977-F01	2443196.89	1977 Feb 22 0919	Soyuz-U	-	78026 -672	5.675	RVSN	OF	U	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1977-015	2443201.39	1977 Feb 26 2118	Vostok 8A92M	-	77052 -391	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-016	2443205.94	1977 Mar 3 1030	Soyuz-U	-	77052 -023	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-017	2443212.96	1977 Mar 10 1100	Soyuz-U	-	78026 -670	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-020	2443219.85	1977 Mar 17 0830	Soyuz-U	-	76042 -235	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-021	2443226.99	1977 Mar 24 1151	Molniya 8K78M	ML	78026 -599	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1977-024	2443238.59	1977 Apr 5 0205:00	Vostok 8A92M	-	78033 -348	1.280	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1977-026	2443240.87	1977 Apr 7 0859	Soyuz-U	-	78026 -671	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-027	2443244.57	1977 Apr 11 0138	Molniya 8K78M	2BL	E 15000-160	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1977-028	2443253.88	1977 Apr 20 0900	Soyuz-U	-	76042 -236	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-030	2443260.11	1977 Apr 26 1445	Soyuz-U	-	E 15000-031	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1977-032	2443261.88	1977 Apr 28 0910	Molniya 8K78M	ML	76026 -604	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1977-033	2443269.08	1977 May 5 1400	Soyuz-U	-	76042 -687	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-035	2443280.92	1977 May 17 1010:00	Soyuz-U	-	76042 -688	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-040	2443289.79	1977 May 26 0700	Soyuz-U	-	78018 -034	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1977-043	2443294.81	1977 May 31 0730:00	Soyuz-U	-	76042 -237	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-045	2443303.08	1977 Jun 8 1400	Soyuz-U	-	76042 -689	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-046	2443304.83	1977 Jun 10 0800	Soyuz-U	-	78026 -863	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-047	2443310.58	1977 Jun 16 0158	Molniya 8K78M	2BL	D 15000-162	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1977-052	2443316.83	1977 Jun 22 0800:00	Soyuz-U	-	76042 -691	6.010	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-054	2443318.74	1977 Jun 24 0541	Molniya 8K78M	ML	76041 -580	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1977-057	2443324.27	1977 Jun 29 1834	Vostok 8A92M	-	77016 -382	1.280	RVSN	OS	-	G	Sat SSO O	NK9817-36	Kosmodrom6-15	-
1977-058	2443325.08	1977 Jun 30 1400	Soyuz-U	-	76042 -239	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-061	2443331.81	1977 Jul 7 0725	Vostok 8A92M	-	76041 -367	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-063	2443336.88	1977 Jul 12 0900	Soyuz-U	-	76042 -692	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-068	2443344.70	1977 Jul 20 0444	Molniya 8K78M	2BL	77052 -609	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1977-069	2443344.82	1977 Jul 20 0735	Soyuz-U	-	76042 -693	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-072	2443352.25	1977 Jul 27 1807	Soyuz-U	-	E 15000-082	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-073	2443353.83	1977 Jul 29 0800	Soyuz-U	-	77052 -244	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-074	2443359.08	1977 Aug 3 1401	Soyuz-U	-	D 15000-113	6.260	RVSN	OS	-	G	Sat LEO O	NK96-26-34	NK9909-68	-
1977-F03	2443365.94	1977 Aug 10 1040	Soyuz-U	-	76042 -694	5.765	RVSN	OF	U	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1977-078	2443380.10	1977 Aug 24 1429:59	Soyuz-U	-	77052 -695	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-081	2443382.92	1977 Aug 27 1009	Soyuz-U	-	78018 -110	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-082	2443386.25	1977 Aug 30 1806	Molniya 8K78M	ML	77016 -593	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1977-083	2443388.88	1977 Sep 2 0900	Soyuz-U	-	76038 -035	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1977-085	2443393.23	1977 Sep 6 1730	Soyuz-U	-	77052 -961	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1977-086	2443400.13	1977 Sep 13 1510	Soyuz-U	-	76038 -111	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-089	2443403.10	1977 Sep 16 1430	Soyuz-U	-	77052 -696	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-091	2443406.54	1977 Sep 20 0100:59	Vostok 8A92M	-	78026 -393	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-093	2443408.54	1977 Sep 22 0051:00	Molniya 8K78M	SOL	D 15000-163	1.238	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1977-098	2443416.91	1977 Sep 30 0946:00	Soyuz-U	-	77052 -697	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-099	2443425.61	1977 Oct 9 0240:35	Soyuz-U	-	D 15000-103	6.800	RVSN	OS	-	G	Sat LSS O	NKO204-71	-	-
1977-100	2443428.13	1977 Oct 11 1514	Soyuz-U	-	D 15000-099	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-105	2443444.57	1977 Oct 28 0137	Molniya 8K78M	ML	77052 -606	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1977-110	2443482.00	1977 Dec 4 1200	Soyuz-U	-	77052 -698	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-113	2443487.55	1977 Dec 10 0118:40	Soyuz-U	-	D 15000-093	6.800	RVSN	OS	-	G	Sat LSS O	NKO204-71	-	-
1977-115	2443489.90	1977 Dec 12 0940:00	Soyuz-U	-	78018 -105	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-117	2443491.90	1977 Dec 14 0930:00	Vostok 8A92M	-	78018 -305	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1977-120	2443498.16	1977 Dec 20 1550	Soyuz-U	-	77052 -699	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1977-124	2443504.89	1977 Dec 27 0920	Soyuz-U	-	77052 -243	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-001	2443515.16	1978 Jan 6 1550	Soyuz-U	-	77052 -702	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-003	2443519.02	1978 Jan 10 1226:00	Soyuz-U	-	D 15000-106	6.800	RVSN	OS	-	G	Sat LSS O	NKO204-71	-	-
1978-004	2443519.06	1978 Jan 10 1323	Vostok 8A92M	-	78026 -394	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-006	2443522.14	1978 Jan 13 1515	Soyuz-U	-	78018 -106	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-008	2443528.85	1978 Jan 20 0824:40	Soyuz-U	-	E 15000-075	9.397	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1978-009	2443532.79	1978 Jan 24 0651	Molniya 8K78M	ML	78026 -596	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1978-010	2443532.91	1978 Jan 24 0950:00	Soyuz-U	-	77052 -700	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-013	2443540.12	1978 Jan 31 1450	Soyuz-U	-	77052 -703	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-015	2443548.01	1978 Feb 8 1215	Soyuz-U	-	77052 -875	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-017	2443553.90	1978 Feb 14 0930:00	Soyuz-U	-	77052 -701	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-023	2443570.14	1978 Mar 2 1528:10	Soyuz-U	-	D 15000-132	6.800	RVSN	OS	-	G	Sat LSS O	NKO204-71	-	-
1978-024	2443570.42	1978 Mar 2 2207	Molniya 8K78M	ML	76041 -581	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1978-025	2443571.82	1978 Mar 4 0740:00	Soyuz-U	-	76042 -242	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-027	2443577.95	1978 Mar 10 1042	Soyuz-U	-	77052 -704	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-030	2443584.95	1978 Mar 17 1050	Soyuz-U	-	78018 -107	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-033	2443597.83	1978 Mar 30 0750:00	Soyuz-U	-	78018 -705	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-036	2443603.12	1978 Apr 4 1500:00	Soyuz-U	-	D 15000-123	6.850	RVSN	OS	-	G	Sat LEO O	NKO204-71	-	-
1978-037	2443604.88	1978 Apr 6 0910	Soyuz-U	-	78018 -109	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-040	2443619.15	1978 Apr 20 1530	Soyuz-U	-	78018 -706	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-043	2443634.15	1978 May 5 1530	Soyuz-U	-	78018 -108	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-045	2443640.67	1978 May 12 0407	Vostok 8A92M	-	76038 -309	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-048	2443644.94	1978 May 16 1040	Soyuz-U	-	78018 -707	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-052	2443651.81	1978 May 23 0730	Soyuz-U	-	77025 -046	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1978-054	2443654.10	1978 May 25 1430	Soyuz-U	-	76038 -112	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-055	2443662.01	1978 Jun 2 1212	Molniya 8K78M	ML	78026 -595	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1978-057	2443669.86	1978 Jun 10 0835:00	Soyuz-U	-	78018 -711	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-059	2443671.94	1978 Jun 12 1030	Soyuz-U	-	78018 -708	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-061	2443675.34	1978 Jun 15 2016:45	Soyuz-U	-	D 15000-133	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1978-065	2443687.14	1978 Jun 27 1527:21	Soyuz-U	-	Ye15000-147	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1978-066	2443687.62	1978 Jun 28 0258	Molniya 8K78M	2BL	77052 -608	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1978-069	2443691.90	1978 Jul 2 0930:00	Soyuz-U	-	76038 -113	5.886	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1978-070	2443696.98	1978 Jul 7 1126:16	Soyuz-U	-	S 15000-128	9.108	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1978-072	2443704.12	1978 Jul 14 1500	Molniya 8K78M	ML	76038 -508	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1978-076	2443726.12	1978 Aug 5 1500	Soyuz-U	-	77025 -295	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1978-077	2443728.44	1978 Aug 7 2231:22	Soyuz-U	-	Ye15000-138	9.201	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1978-080	2443743.49	1978 Aug 22 2347	Molniya 8K78M	ML	78018 -501	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1978-081	2443747.12	1978 Aug 26 1451:30	Soyuz-U	-	Ye15000-159	6.800	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1978-082	2443750.12	1978 Aug 29 1500	Soyuz-U	-	78018 -709	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-083	2443757.63	1978 Sep 6 0304	Molniya 8K78M	2BL	76038 -507	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1978-085	2443761.12	1978 Sep 9 1500	Soyuz-U	-	76038 -716 ?	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-088	2443770.84	1978 Sep 19 0805	Soyuz-U	-	77025 -124	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-089	2443784.96	1978 Oct 3 1100	Soyuz-U	-	77025 -047	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1978-090	2443785.46	1978 Oct 3 2309:30	Soyuz-U	-	Ye15000-152	9.399	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1978-092	2443788.15	1978 Oct 6 1530	Soyuz-U	-	76038 -715	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-094	2443792.32	1978 Oct 10 1944	Vostok 8A92M	-	76038 -310	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-095	2443794.72	1978 Oct 13 0519	Molniya 8K78M	ML	76038 -511	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1978-097	2443799.12	1978 Oct 17 1500	Soyuz-U	-	77025 -125	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-101	2443811.72	1978 Oct 30 0523:00	Molniya 8K78M	SOL	D 15000-173/801	1.278	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1978-102	2443814.00	1978 Nov 1 1200	Soyuz-U	-	78026 -864	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-104	2443827.99	1978 Nov 15 1145	Soyuz-U	-	78038 -714	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-107	2443834.00	1978 Nov 21 1200	Soyuz-U	-	77025 -729	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-108	2443841.18	1978 Nov 28 1620	Soyuz-U	-	D 15000-086	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-110	2443850.15	1978 Dec 7 1530	Soyuz-U	-	78038 -717	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-111	2443850.90	1978 Dec 8 0930:00	Soyuz-U	-	E 15000-144	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-114	2443857.14	1978 Dec 14 1520	Soyuz-U	-	78055 -129	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-117	2443861.57	1978 Dec 19 0135	Vostok 8A92M	-	76038 -311	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-121	2443865.86	1978 Dec 23 0839	Vostok 8A92M	-	78026 -384	1.200	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-123	2443869.15	1978 Dec 26 1530	Soyuz-U	-	76038 -718	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1978-124	2443871.19	1978 Dec 28 1630	Soyuz-U	-	77052 -876	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-001	2443885.12	1979 Jan 11 1500	Soyuz-U	-	78055 -130	6.030	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-002	2443887.15	1979 Jan 13 1530	Soyuz-U	-	77025 -730	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-004	2443892.15	1979 Jan 18 1542	Molniya 8K78M	ML	78018 -504	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1979-005	2443898.74	1979 Jan 25 0543	Vostok 8A92M	-	78026 -386	1.280	RVSN	OS	-	G	Sat SSO O	NK9817-36	XPC	-
1979-006	2443904.14	1979 Jan 30 1515	Soyuz-U	-	77025 -731	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-008	2443904.88	1979 Jan 31 0900:00	Soyuz-U	-	Ye15000-142	6.850	RVSN	OS	-	G	Sat LEO O	NK0204-71	-	-
1979-012	2443918.40	1979 Feb 13 2141	Vostok 8A92M	-	76038 -312	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-F01	2443921.12	1979 Feb 16 1500	Soyuz-U	-	77025 -131	5.930	RVSN	OF	S3I	G	Sat LEO O	AK15	AVMNLJ	Valve stuck
1979-016	2443927.01	1979 Feb 22 1210	Soyuz-U	-	77025 -732	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-018	2443930.00	1979 Feb 25 1153:49	Soyuz-U	-	Ye15000-155	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1979-019	2443932.12	1979 Feb 27 1500	Soyuz-U	-	77025 -926	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1979-021	2443934.28	1979 Mar 1 1845:00	Vostok 8A92M	-	78018 -307	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1979-022	2443944.74	1979 Mar 12 0547:28	Soyuz-U	-	Ye15000-162	8.835	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1979-023	2443946.95	1979 Mar 14 1050	Soyuz-U	-	78055 -737	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-027	2443963.95	1979 Mar 31 1045	Soyuz-U	-	77025 -127	5.400	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-029	2443974.23	1979 Apr 10 1734:34	Soyuz-U	-	Zh15000-182	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1979-031	2443975.52	1979 Apr 12 0028:00	Molniya 8K78M	ML	76042 -605	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1979-032	2443977.73	1979 Apr 14 0527	Vostok 8A92M	-	78055 -326	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-034	2443983.98	1979 Apr 20 1130	Soyuz-U	-	76038 -407	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-037	2443991.22	1979 Apr 27 1715	Soyuz-U	-	E 15000-048	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1979-039	2444006.68	1979 May 13 0417:10	Soyuz-U	-	Zh15000-175	8.737	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1979-040	2444008.99	1979 May 15 1140	Soyuz-U	-	78055 -736	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-041	2444010.80	1979 May 17 0710	Soyuz-U	-	78055 -048	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-043	2444018.79	1979 May 25 0700	Soyuz-U	-	76047 -152	6.030	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-045	2444025.19	1979 May 31 1630	Soyuz-U	-	78055 -420	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-048	2444030.48	1979 Jun 5 2328	Molniya 8K78M	ML	76038 -509	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1979-049	2444031.26	1979 Jun 6 1812:41	Soyuz-U	-	Zh15000-178	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1979-052	2444032.80	1979 Jun 8 0710	Soyuz-U	-	76047 -060	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-054	2444036.79	1979 Jun 12 0700	Soyuz-U	-	77025 -128	6.030	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-055	2444039.95	1979 Jun 15 1050	Soyuz-U	-	D 15000-083	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-056	2444046.79	1979 Jun 22 0700	Soyuz-U	-	78055 -049	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-058	2444052.26	1979 Jun 27 1811:23	Molniya 8K78M	2BL	76038 -512	1.578	RVSN	OS	-	G	Sat MOL O 1	NK9715-48	XPC	-
1979-059	2444052.89	1979 Jun 28 0925:11	Soyuz-U	-	Zh15000-192	8.913	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1979-061	2444054.17	1979 Jun 29 1600	Soyuz-U	-	78055 -421	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-064	2444064.88	1979 Jul 10 0900:00	Soyuz-U	-	76038- 712	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-066	2444067.85	1979 Jul 13 0825	Soyuz-U	-	76047 -062	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-067	2444075.00	1979 Jul 20 1158	Vostok 8A92M	-	77025 -324	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-068	2444080.14	1979 Jul 25 1520	Soyuz-U	-	77025 -733	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-069	2444081.81	1979 Jul 27 0730	Soyuz-U	-	76047 -153	6.030	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-070	2444085.66	1979 Jul 31 0356	Molniya 8K78M	ML	78055 -534	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1979-071	2444088.95	1979 Aug 3 1045	Soyuz-U	-	76038 -818	6.050	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-073	2444096.89	1979 Aug 11 0915:00	Soyuz-U	-	76047 -759	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-074	2444100.15	1979 Aug 14 1530	Soyuz-U	-	78055 -929	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1979-075	2444102.82	1979 Aug 17 0745	Soyuz-U	-	77025 -126	6.030	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-076	2444106.97	1979 Aug 21 1110	Soyuz-U	-	76047 -061	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1979-077	2444113.51	1979 Aug 28 0017:04	Molniya 8K78M	2BL	78055 -531	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1979-079	2444116.98	1979 Aug 31 1130	Soyuz-U	-	76047 -444	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-080	2444121.93	1979 Sep 5 1020	Soyuz-U	-	Zh15000-201	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1979-081	2444131.15	1979 Sep 14 1530	Soyuz-U	-	78055 -738	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-083	2444142.15	1979 Sep 25 1530	Soyuz-U	-	Zh15000-193	6.260	RVSN	OS	-	G	Sat LEO O	NK96-26-34	XPC	-
1979-085	2444145.01	1979 Sep 28 1220	Soyuz-U	-	77025 -418	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-088	2444151.98	1979 Oct 5 1130	Soyuz-U	-	78055 -817	6.860	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-U01	2444159.02	1979 Oct 12 1230	Soyuz-U	-	77025 -419	6.020	RVSN	OF	S3P	G	Sat LEO O	AK15	AVMNLJ	T+8:47 fail
1979-091	2444166.79	1979 Oct 20 0703	Molniya 8K78M	ML	78055 -528	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-092	2444169.02	1979 Oct 22 1230	Soyuz-U	-	76047 -445	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-093	2444173.26	1979 Oct 26 1812	Vostok 8A92M	-	78018 -306 ?	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-095	2444177.89	1979 Oct 31 0925:00	Vostok 8A92M	-	78055 -328	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1979-097	2444180.17	1979 Nov 2 1600	Soyuz-U	-	76047 -939	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1979-099	2444204.91	1979 Nov 27 0955	Vostok 8A92M	-	78055 -327	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-102	2444220.02	1979 Dec 12 1230	Soyuz-U	-	76047 -442	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1979-103	2444224.02	1979 Dec 16 1229:50	Soyuz-U	-	78018 -912	6.850	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1979-106	2444236.04	1979 Dec 28 1300	Soyuz-U	-	76047 -760	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-001	2444248.01	1980 Jan 9 1215	Soyuz-U	-	76047 -443	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-002	2444250.02	1980 Jan 11 1228	Molniya 8K78M	ML	78018 -505	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1980-006	2444263.16	1980 Jan 24 1545	Soyuz-U	-	76038 -914	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1980-008	2444269.04	1980 Jan 30 1251	Vostok 8A92M	-	78055 -329	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-009	2444276.96	1980 Feb 7 1100	Soyuz-U	-	78017 -452	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-013	2444281.54	1980 Feb 12 0052:37	Molniya 8K78M	2BL	78055 -532	7.378	RVSN	OF40	S4I	G	Sat MOL OO 1	NK9701-29	XPC	Gyro failed
1980-017	2444291.00	1980 Feb 21 1200	Soyuz-U	-	76038 -713	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-020	2444302.94	1980 Mar 4 1030	Soyuz-U	-	78017 -447	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-E01	2444317.17	1980 Mar 18 1601	Vostok 8A92M	-	78055 -330	0.000	RVSN	OE	PE	G	Sat LEO O	Sergeev96	XPC	Exploded during fuelling
1980-024	2444326.29	1980 Mar 27 1853:31	Soyuz-U	-	Zh15000-200	9.009	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1980-025	2444330.83	1980 Apr 1 0800	Soyuz-U	-	77025 -734	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-027	2444339.07	1980 Apr 9 1338:22	Soyuz-U	-	Zh15000-189	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-028	2444342.35	1980 Apr 12 2017:57	Molniya 8K78M	2BL	77025 -526	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1980-029	2444346.85	1980 Apr 17 0830	Soyuz-U	-	77025 -735	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-031	2444348.23	1980 Apr 18 1731	Molniya 8K78M	ML	78055 -506	2.078	RVSN	OF40	S4I	G	Sat MOL OO 1	NK9701-29	XPC	LOX valve failed
1980-033	2444356.77	1980 Apr 27 0624:11	Soyuz-U	-	Zh15000-210	9.030	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1980-035	2444359.06	1980 Apr 29 1330	Soyuz-U	-	Zh15000-213	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1980-036	2444367.04	1980 May 7 1300	Soyuz-U	-	78017 -449	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-038	2444374.73	1980 May 15 0535	Soyuz-U	-	78017 -448	6.680	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-040	2444382.80	1980 May 23 0710	Soyuz-U	-	78017 -064	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1980-041	2444386.26	1980 May 26 1820:39	Soyuz-U	-	P 15000-226	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-042	2444388.00	1980 May 28 1200	Soyuz-U	-	76047 -446	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	TLE	-
1980-044	2444394.82	1980 Jun 4 0734	Vostok 8A92M	-	76047 -351	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-045	2444396.10	1980 Jun 5 1419:30	Soyuz-U	-	Zh15000-196	6.850	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-046	2444396.79	1980 Jun 6 0700	Soyuz-U	-	78055 -928	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1980-048	2444403.02	1980 Jun 12 1230	Soyuz-U	-	78017 -451	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-050	2444405.37	1980 Jun 14 2051:34	Molniya 8K78M	2BL	77025 -527	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1980-051	2444408.76	1980 Jun 18 0614:12	Vostok 8A92M	-	76038 -313	1.500	RVSN	OS	-	G	Sat LEO O	NK9422-46	XPC	-
1980-053	2444412.27	1980 Jun 21 1834	Molniya 8K78M	ML	76047 -550	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1980-054	2444417.01	1980 Jun 26 1220	Soyuz-U	-	78017 -450	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-055	2444419.69	1980 Jun 29 0440:42	Soyuz-U	-	P 15000-232	9.367	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1980-057	2444422.54	1980 Jul 2 0053:41	Molniya 8K78M	2BL	77025 -529	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1980-059	2444430.03	1980 Jul 9 1240	Soyuz-U	-	78017 -453	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-061	2444435.81	1980 Jul 15 0730	Soyuz-U	-	76047 -063	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1980-063	2444438.94	1980 Jul 18 1037	Molniya 8K78M	ML	76047 -551	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1980-064	2444444.27	1980 Jul 23 1833:03	Soyuz-U	-	P 15000-238	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-065	2444445.03	1980 Jul 24 1240	Soyuz-U	-	78017 -454	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-066	2444451.82	1980 Jul 31 0745	Soyuz-U	-	77023 -796	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1980-068	2444463.99	1980 Aug 12 1150	Soyuz-U	-	78017 -455	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-069	2444466.73	1980 Aug 15 0534	Vostok 8A92M	-	76047 -352	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-070	2444473.92	1980 Aug 22 1000	Soyuz-U	-	76047 -065	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1980-071	2444478.15	1980 Aug 26 1530	Soyuz-U	-	77052 -960	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1980-072	2444485.93	1980 Sep 3 1020	Soyuz-U	-	76053 -476	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1980-073	2444491.96	1980 Sep 9 1100:00	Vostok 8A92M	-	78018 -308	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1980-075	2444501.30	1980 Sep 18 1911:04	Soyuz-U	-	P 15000-242	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-076	2444501.92	1980 Sep 19 1010	Soyuz-U	-	77023 -466	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-077	2444505.94	1980 Sep 23 1030	Soyuz-U	-	78055 -840	6.860	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-078	2444508.92	1980 Sep 26 1010	Soyuz-U	-	77023 -076	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1980-079	2444511.13	1980 Sep 28 1509:55	Soyuz-U	-	P 15000-219	9.346	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1980-080	2444516.00	1980 Oct 3 1200	Soyuz-U	-	77023 -469	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-082	2444523.05	1980 Oct 10 1310	Soyuz-U	-	77023 -467	6.100	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-084	2444529.01	1980 Oct 16 1220	Soyuz-U	-	77023 -470	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-085	2444536.95	1980 Oct 24 1053:29	Molniya 8K78M	2BL	76047 -548	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1980-086	2444542.92	1980 Oct 30 1000	Soyuz-U	-	P 15000-233	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1980-088	2444544.00	1980 Oct 31 1200	Soyuz-U	-	77023 -471	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-090	2444556.02	1980 Nov 12 1230	Soyuz-U	-	77023 -472	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-092	2444559.68	1980 Nov 16 0418	Molniya 8K78M	ML	77025 -524	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1980-093	2444565.00	1980 Nov 21 1153	Vostok 8A92M	-	76047 -353	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-094	2444571.10	1980 Nov 27 1418:28	Soyuz-U	-	Zh15000-202	6.850	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1980-095	2444571.40	1980 Nov 27 2137:10	Molniya 8K78M	2BL	78055 -536	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1980-096	2444575.01	1980 Dec 1 1215	Soyuz-U	-	77023 -473	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-101	2444590.01	1980 Dec 16 1215	Soyuz-U	-	77023 -475	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1980-103	2444598.67	1980 Dec 25 0402	Molniya 8K78M	SOL	P 15000-203	1.238	RVSN	OS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1980-105	2444600.17	1980 Dec 26 1610	Soyuz-U	-	76038 -913	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1981-001	2444611.01	1981 Jan 6 1215	Soyuz-U	-	77023 -474	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-002	2444614.12	1981 Jan 9 1457	Molniya 8K78M	ML	77023 -617	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1981-004	2444621.00	1981 Jan 16 1200	Soyuz-U	-	78017 -821	6.860	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-005	2444624.96	1981 Jan 20 1100	Soyuz-U	-	77023 -975	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1981-007	2444629.10	1981 Jan 24 1418:02	Soyuz-U	-	P 15000-235	9.350	RVSN	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1981-008	2444632.12	1981 Jan 27 1458	Vostok 8A92M	-	78017 -354	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-009	2444635.19	1981 Jan 30 1627	Molniya 8K78M	ML	76038 -510	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1981-014	2444648.97	1981 Feb 13 1115	Soyuz-U	-	76053 -478	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-015	2444653.88	1981 Feb 18 0900	Soyuz-U	-	Ts15000-264	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1981-016	2444654.92	1981 Feb 19 1000:26	Molniya 8K78M	2BL	76047 -549	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1981-020	2444669.12	1981 Mar 5 1500	Soyuz-U	-	77023 -475 ?	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1981-023	2444676.29	1981 Mar 12 1900:11	Soyuz-U	-	Ts15000-266	6.850	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1981-026	2444680.86	1981 Mar 17 0840	Soyuz-U	-	77023 -468	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1981-029	2444686.12	1981 Mar 22 1458:55	Soyuz-U	-	P 15000-257	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-030	2444687.65	1981 Mar 24 0331	Molniya 8K78M	ML	77025 -525	2.078	RVSN	OS	-	G	Sat LEO O	NK9815-26	XPC	-
1981-F02	2444691.90	1981 Mar 28 0930	Soyuz-U	-	78055 -927	5.684	RVSN	OF	U	G	Sat MOL OO 1	NK9718-91	Kosmodrom6-15	Details unknown
1981-031	2444694.90	1981 Mar 31 0939:49	Molniya 8K78M	2BL	78017 -553	1.578	RVSN	OS	-	G	Sat LEO O	NK9715-48	XPC	-
1981-032	2444701.95	1981 Apr 7 1051	Soyuz-U	-	76053 -480	6.300	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1981-035	2444709.94	1981 Apr 15 1030	Soyuz-U	-	76053 -482	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-036	2444710.98	1981 Apr 16 1130	Soyuz-U	-	76053 -479	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-040	2444722.88	1981 Apr 28 0900	Soyuz-U	-	77053 -484	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-042	2444739.22	1981 May 14 1716:38	Soyuz-U	-	P 15000-246	6.800	RVSN	OS	-	G	Sat LSS O	NK0204-71	-	-
1981-043	2444739.41	1981 May 14 2145:00	Vostok 8A92M	-	77052 -392	1.500	RVSN	OS	-	G	Sat LEO O	PL-WWW	XPC	-
1981-045	2444742.99	1981 May 18 1150	Soyuz-U	-	76053 -485	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1981-046	2444743.66	1981 May 19 0349	Vostok 8A92M	-	78017 -355	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-047	2444745.88	1981 May 21 0910	Soyuz-U	-	78039 -418	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-048	2444746.80	1981 May 22 0710	Soyuz-U	-	76053 -077	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1981-052	2444759.08	1981 Jun 3 1400	Soyuz-U	-	76053 -483	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1981-054	2444764.65	1981 Jun 9 0333	Molniya 8K78M	ML	76053 -622	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1981-055	2444771.79	1981 Jun 16 0700	Soyuz-U	-	78039 -078	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1981-056	2444772.90	1981 Jun 17 0930	Soyuz-U	-	78039 -417	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-058	2444775.32	1981 Jun 19 1937:04	Molniya 8K78M	2BL	76047 -554	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1981-060	2444780.24	1981 Jun 24 1747	Molniya 8K78M	ML	76038 -607	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1981-062	2444786.90	1981 Jul 1 0930	Soyuz-U	-	78039 -422	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-063	2444787.80	1981 Jul 2 0710	Soyuz-U	-	78026 -663	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1981-064	2444793.02	1981 Jul 7 1230	Soyuz-U	-	76053 -477	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-065	2444795.72	1981 Jul 10 0514	Vostok 8A92M	-	76042 -389	1.535	RVSN	OS	-	G	Sat SSO O	PL-WWW	XPC	-
1981-066	2444801.04	1981 Jul 15 1300	Soyuz-U	-	78017 -951	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	78039-951?
1981-067	2444802.83	1981 Jul 17 0800	Soyuz-U	-	76047 -940	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-068	2444815.00	1981 Jul 29 1155	Soyuz-U	-	78039 -421	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-071	2444820.51	1981 Aug 4 0012:58	Molniya 8K78M	2BL	76047 -522	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1981-075	2444824.07	1981 Aug 7 1335	Vostok 8A92M	-	78039 -375	1.500	RVSN	OS	-	G	Sat LEO O	NK9521-43	NK9909-68	-
1981-078	2444830.18	1981 Aug 13 1620	Soyuz-U	-	76053 -978	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1981-079	2444834.90	1981 Aug 18 0930	Soyuz-U	-	76053 -481	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-080	2444837.93	1981 Aug 21 1020	Soyuz-U	-	78039 -115	6.600	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1981-083	2444843.94	1981 Aug 27 1030	Soyuz-U	-	77049 -116	6.300	RVSN	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1981-086	2444851.83	1981 Sep 4 0800	Soyuz-U	-	78017 -941	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-088	2444858.86	1981 Sep 11 0843:10	Molniya 8K78M	ML	78055 -535	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9701-29	XPC	-
1981-090	2444862.98	1981 Sep 15 1130	Soyuz-U	-	78039 -416	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-092	2444865.90	1981 Sep 18 0930	Soyuz-U	-	77023 -802	6.860	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-099	2444878.88	1981 Oct 1 0900	Soyuz-U	-	78039 -427	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-101	2444886.94	1981 Oct 9 1040	Soyuz-U	-	77049 -079	6.100	RVSN	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1981-103	2444891.46	1981 Oct 13 2301	Vostok 8A92M	-	78017 -357	1.750	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-104	2444892.89	1981 Oct 15 0915	Soyuz-U	-	78039 -423	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-105	2444894.75	1981 Oct 17 0559	Molniya 8K78M	ML	78055 -530	2.078	RVSN	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1981-108	2444909.45	1981 Oct 31 2253:31	Molniya 8K78M	2BL	76047 -555	1.578	RVSN	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1981-109	2444912.04	1981 Nov 3 1300	Soyuz-U	-	77023 -977	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1981-112	2444921.90	1981 Nov 13 0930	Soyuz-U	-	78039 -429	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-113	2444926.14	1981 Nov 17 1525	Molniya 8K78M	ML	78026 -601	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1981-118	2444942.91	1981 Dec 4 0950	Soyuz-U	-	76053 -980	6.300	RVSN	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1981-121	2444957.99	1981 Dec 19 1150	Soyuz-U	-	77049 -428	6.600	RVSN	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1981-123	2444962.05	1981 Dec 23 1315	Molniya 8K78M	ML	78039 -640	1.978	RVSN	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1982-002	2444982.02	1982 Jan 12 1230	Soyuz-U	-	77023 -076 976?	6.860	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-005	2444989.98	1982 Jan 20 1130	Soyuz-U	-	78039 -424	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-008	2444999.98	1982 Jan 30 1130	Soyuz-U	-	78039 -953	6.600	UNKS	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1982-011	2445016.97	1982 Feb 16 1110	Soyuz-U	-	78039 -419	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-013	2445019.57	1982 Feb 19 0142	Vostok 8A92M	-	77023 -338	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-015	2445027.34	1982 Feb 26 2010	Molniya 8K78M	ML	77023 -620	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1982-016	2445031.74	1982 Mar 3 0544:38	Molniya 8K78M	2BL	77023 -618	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1982-018	2445033.95	1982 Mar 5 1050	Soyuz-U	-	78039 -420	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-021	2445045.94	1982 Mar 17 1030	Soyuz-U	-	78039 -425	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-023	2445052.51	1982 Mar 24 0012:00	Molniya 8K78M	ML	78039 -638	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1982-027	2445060.19	1982 Mar 31 1627	Vostok 8A92M	-	77023 -339	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-028	2445061.93	1982 Apr 2 1015	Soyuz-U	-	Sh15000-310	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1982-029	2445067.07	1982 Apr 7 1341:47	Molniya 8K78M	2BL	77023 -621	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1982-032	2445075.10	1982 Apr 15 1430	Soyuz-U	-	76053 -979	6.600	UNKS	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1982-035	2445080.89	1982 Apr 21 0915	Soyuz-U	-	78039 -426	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-036	2445082.90	1982 Apr 23 0940	Soyuz-U	-	76054 -080	6.100	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1982-039	2445094.83	1982 May 5 0801	Vostok 8A92M	-	77023 -340	1.750	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-042	2445102.92	1982 May 13 0958:05	Soyuz-U	-	Ts15000-272	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1982-F02	2445105.10	1982 May 15 1420	Soyuz-U	-	77049 -431	6.020	UNKS	OF	S2U	G	Sat LEO O	AK15	AVMNLJ	Circuit board failed
1982-045	2445110.05	1982 May 20 1308:31	Molniya 8K78M	2BL	76053 -624	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1982-046	2445111.03	1982 May 21 1240	Soyuz-U	-	78018 -710	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-047	2445112.75	1982 May 23 0556:41	Soyuz-U	-	Ts15000-283	9.366	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1982-048	2445114.88	1982 May 25 0900	Soyuz-U	-	76054 -117	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1982-049	2445117.88	1982 May 28 0910	Soyuz-U	-	Ts15000-290	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-050	2445118.42	1982 May 28 2202:59	Molniya 8K78M	ML	78017 -556	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1982-053	2445123.03	1982 Jun 2 1250	Soyuz-U	-	77049 -430	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-056	2445128.82	1982 Jun 8 0745	Soyuz-U	-	76054 -118	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1982-057	2445129.00	1982 Jun 8 1200	Soyuz-U	-	78039 -215	6.600	UNKS	OS	-	G	Sat LEO O	NK9718-91	Kosmodrom6-15	-
1982-F03	2445132.88	1982 Jun 12 0900	Soyuz-U	-	77049 -435	6.020	UNKS	OF	U	G	Sat LEO O	AK15	Kosmodrom6-15	Details unknown
1982-062	2445139.04	1982 Jun 18 1300	Soyuz-U	-	77049 -434	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-063	2445145.19	1982 Jun 24 1629:48	Soyuz-U	-	Ts15000-269	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1982-064	2445145.60	1982 Jun 25 0228:02	Molniya 8K78M	2BL	76053 -626	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1982-067	2445151.12	1982 Jun 30 1500	Soyuz-U	-	78017 -054	6.600	UNKS	OS	-	G	Sat LEO O	NK9718-91	XPC	-
1982-068	2445156.83	1982 Jul 6 0750	Soyuz-U	-	77049 -433	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1982-070	2445160.92	1982 Jul 10 0957:44	Soyuz-U	-	Sh15000-318	9.241	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1982-071	2445163.83	1982 Jul 13 0800	Soyuz-U	-	76054 -081	6.100	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1982-074	2445171.90	1982 Jul 21 0940:02	Molniya 8K78M	ML	76054 -652	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1982-075	2445178.02	1982 Jul 27 1230	Soyuz-U	-	77049 -432	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-077	2445184.98	1982 Aug 3 1130	Soyuz-U	-	77049 -803	6.650	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-078	2445185.98	1982 Aug 4 1130	Soyuz-U	-	77049 -216	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1982-079	2445186.79	1982 Aug 5 0656	Vostok 8A92M	-	76053 -341	1.750	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-080	2445201.22	1982 Aug 19 1711:52	Soyuz-U	-	Ts15000-276	6.850	UNKS	OS	-	G	Sat LSS 0	NK0204-71	-	-
1982-081	2445201.91	1982 Aug 20 0950	Soyuz-U	-	76054 -119	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1982-083	2445208.50	1982 Aug 27 0002	Molniya 8K78M	ML	76047 -547	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1982-085	2445213.88	1982 Sep 1 0900	Soyuz-U	-	76054 -763	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-086	2445213.99	1982 Sep 1 1140	Soyuz-U	-	78017 -944	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-089	2445220.93	1982 Sep 8 1020	Soyuz-U	-	77024 -082	6.100	UNKS	OS	-	G	Sat LEO 0	NK96-26-40	XPC	-
1982-091	2445228.15	1982 Sep 15 1530	Soyuz-U	-	77049 -955	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1982-094	2445230.71	1982 Sep 18 0458:54	Soyuz-U	-	Ts15000-292	9.230	UNKS	OS	-	G	Sat LSS 0	NK9807-46	XPC	-
1982-095	2445234.77	1982 Sep 22 0623:11	Molniya 8K78M	2BL	76053 -639	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1982-098	2445242.99	1982 Sep 30 1150	Soyuz-U	-	76054 -761	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-101	2445256.88	1982 Oct 14 0910	Soyuz-U	-	76054 -764	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-107	2445273.97	1982 Oct 31 1120:36	Soyuz-U	-	Sh15000-335	9.414	UNKS	OS	-	G	Sat LSS 0	NK9807-46	XPC	-
1982-108	2445275.90	1982 Nov 2 0930	Soyuz-U	-	76054 -765	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-112	2445291.89	1982 Nov 18 0925	Soyuz-U	-	76054 -767	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-114	2445307.00	1982 Dec 3 1200	Soyuz-U	-	76054 -766	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-115	2445312.07	1982 Dec 8 1346	Molniya 8K78M	ML	77024 -656	1.978	UNKS	OF40	S4I	G	Sat MOL OO 1	AK15/RAEX	NK9701-29	S4 exploded at ignition
1982-116	2445318.44	1982 Dec 14 2230:00	Vostok 8A92M	-	78017 -356	1.500	UNKS	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1982-117	2445319.92	1982 Dec 16 1000	Soyuz-U	-	77049 -217	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1982-119	2445326.88	1982 Dec 23 0910	Soyuz-U2	-	77024 -777 (002?)	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1982-120	2445332.00	1982 Dec 28 1200	Soyuz-U	-	Sh15000-332	6.600	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1983-003	2445355.23	1983 Jan 20 1726	Vostok 8A92M	-	76053 -342	1.750	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-005	2445361.85	1983 Jan 27 0830	Soyuz-U	-	77024 -773	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-007	2445371.98	1983 Feb 6 1131	Soyuz-U	-	77049 -956	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1983-009	2445375.80	1983 Feb 10 0715	Soyuz-U	-	77024 -120	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-010	2445381.92	1983 Feb 16 1003	Vostok 8A92M	-	76053 -343	1.750	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-012	2445391.03	1983 Feb 25 1245	Soyuz-U	-	76054 -248	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1983-014	2445395.95	1983 Mar 2 1050	Soyuz-U	-	78017 -943	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-015	2445405.15	1983 Mar 11 1529:00	Molniya 8K78M	ML	78039 -641	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1983-018	2445409.87	1983 Mar 16 0850	Soyuz-U2	-	77024 -778 (001?)	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-019	2445410.26	1983 Mar 16 1814	Molniya 8K78M	ML	76053 -625	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1983-024	2445424.95	1983 Mar 31 1050	Soyuz-U	-	77024 -770	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-025	2445426.58	1983 Apr 2 0202:00	Molniya 8K78M	ML	77024 -654	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1983-029	2445432.85	1983 Apr 8 0830	Soyuz-U	-	77024 -772	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	NK9909-68	-
1983-035	2445445.05	1983 Apr 20 1310:54	Soyuz-U	-	Sh15000-342	6.850	UNKS	OS	-	G	Sat LSS 0	NK0204-71	-	-
1983-036	2445447.10	1983 Apr 22 1430	Soyuz-U	-	76054 -957	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1983-038	2445450.32	1983 Apr 25 1933:43	Molniya 8K78M	2BL	77049 -646	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1983-039	2445450.92	1983 Apr 26 1000	Soyuz-U	-	78039 -214	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1983-040	2445452.85	1983 Apr 28 0830	Soyuz-U	-	76054 -768	6.100	UNKS	OS	-	G	Sat LEO 0	NK96-26-40	XPC	-
1983-043	2445460.88	1983 May 6 0910	Soyuz-U	-	77024 -771	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-045	2445471.83	1983 May 17 0800	Soyuz-U	-	78055 -839	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-050	2445481.00	1983 May 26 1200	Soyuz-U	-	77024 -250	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1983-052	2445485.99	1983 May 31 1140	Soyuz-U	-	77024 -775	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-055	2445492.83	1983 Jun 7 0750	Soyuz-U	-	78012 -122	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-057	2445500.01	1983 Jun 14 1215	Soyuz-U	-	76054 -762	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-062	2445512.88	1983 Jun 27 0912:18	Soyuz-U	-	Sh15000-349	6.850	UNKS	OS	-	G	Sat LSS 0	NK0204-71	-	-
1983-064	2445514.12	1983 Jun 28 1500	Soyuz-U	-	77024 -958	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1983-067	2445517.01	1983 Jul 1 1217	Molniya 8K78M	SOL	Ts15000-214	1.388	UNKS	DS	-	G	Sat DSO OO 1	AK15/RAEX	Kosmodrom6-15	-
1983-068	2445520.83	1983 Jul 5 0750	Soyuz-U	-	78012 -123	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-070	2445524.31	1983 Jul 8 1921	Molniya 8K78M	2BL	76054 -647	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1983-071	2445528.90	1983 Jul 13 0940	Soyuz-U	-	78012 -781	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-073	2445535.13	1983 Jul 19 1514	Molniya 8K78M	ML	78012 -660	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1983-074	2445535.83	1983 Jul 20 0800	Soyuz-U	-	78012 -083	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-075	2445539.74	1983 Jul 24 0550:37	Vostok 8A92M	-	77049 -376	1.500	UNKS	OS	-	G	Sat SSO 0	AK15	NK9422-46	Kosmodrom6-15
1983-076	2445542.00	1983 Jul 26 1200	Soyuz-U	-	76054 -769? (269?)	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-080	2445551.89	1983 Aug 5 0920	Soyuz-U	-	78012 -125	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-082	2445555.97	1983 Aug 9 1120	Soyuz-U	-	77024 -774	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-083	2445557.04	1983 Aug 10 1300	Soyuz-U	-	77024 -252	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	Kosmodrom6-15	-
1983-085	2445564.01	1983 Aug 17 1208:23	Soyuz-U	-	Ts15000-302	9.218	UNKS	OS	-	G	Sat LSS 0	NK9807-46	VSA074	-
1983-087	2445569.96	1983 Aug 23 1105	Soyuz-U	-	77024 -776	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-090	2445577.45	1983 Aug 30 2249:00	Molniya 8K78M	ML	76054 -650	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1983-092	2445580.93	1983 Sep 3 1015	Soyuz-U	-	78012 -084	6.100	UNKS	OS	-	G	Sat LEO 0	NK96-26-40	XPC	-
1983-093	2445585.06	1983 Sep 7 1324	Soyuz-U	-	78012 -782	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1983-095	2445586.96	1983 Sep 9 1100	Soyuz-U	-	78012 -783	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-096	2445591.93	1983 Sep 14 1025	Soyuz-U	-	78039 -952	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-
1983-097	2445594.97	1983 Sep 17 1115	Soyuz-U	-	77024 -251	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-F02	2445604.32	1983 Sep 26 1937:51	Soyuz-U	-	Yu15000-363	6.900	UNKS	OF	PE	G	Sat LSS 0	NK0204-71	-	Fire at T-20s, abort
1983-104	2445621.92	1983 Oct 14 1000	Soyuz-U	-	77024 -803	6.600	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	Kosmodrom6-15	-
1983-106	2445627.92	1983 Oct 20 0959:05	Soyuz-U	-	Ts15000-287	9.129	UNKS	OS	-	G	Sat LSS 0	NK9807-46	XPC	-
1983-107	2445629.01	1983 Oct 21 1210	Soyuz-U	-	78012 -784	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-109	2445635.88	1983 Oct 28 0900:00	Vostok 8A92M	-	77025 -325	1.500	UNKS	OS	-	G	Sat LEO 0	PL-WWW	XPC	-
1983-112	2445656.01	1983 Nov 17 1215	Soyuz-U	-	78012 -785	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-114	2445662.20	1983 Nov 23 1645	Molniya 8K78M	ML	77023 -619	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1983-117	2445669.07	1983 Nov 30 1345	Soyuz-U	-	77024 -249	6.600	UNKS	OS	-	G	Sat LEO 0	NK9718-91	XPC	-
1983-119	2445676.01	1983 Dec 7 1210	Soyuz-U	-	78012 -786	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-121	2445682.79	1983 Dec 14 0700	Soyuz-U	-	Yu15000-371	6.260	UNKS	OS	-	G	Sat LEO 0	NK96-26-34	XPC	-
1983-123	2445689.76	1983 Dec 21 0607:59	Molniya 8K78M	ML	76054 -648	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1983-124	2445695.90	1983 Dec 27 0930	Soyuz-U	-	Sh15000-345	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1983-126	2445696.66	1983 Dec 28 0348:05	Molniya 8K78M	2BL	78039 -642	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-002	2445711.01	1984 Jan 11 1220	Soyuz-U	-	78012 -787	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1984-004	2445713.11	1984 Jan 13 1440	Soyuz-U	-	78012 -806 *	6.600	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1984-006	2445725.87	1984 Jan 26 0850	Soyuz-U2	-	76032? -791 (-003)	6.300	UNKS	OS	-	G	Sat LEO 0	AK15/RAEX	XPC	-
1984-014	2445739.01	1984 Feb 8 1207:26	Soyuz-U	-	Yu15000-357	6.850	UNKS	OS	-	G	Sat LSS 0	NK0204-71	-	-
1984-017	2445746.84	1984 Feb 16 0815	Soyuz-U	-	76032 -126	6.300	UNKS	OS	-	G	Sat LEO 0	NK95-20-29	NK9911-24	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-018	2445751.78	1984 Feb 21 0646:05	Soyuz-U	-	Yu15000-367	9.344	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1984-020	2445759.08	1984 Feb 28 1359:59	Soyuz-U	-	78012 -789	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-024	2445766.22	1984 Mar 6 1710:18	Molniya 8K78M	ML	76054 -649	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-025	2445766.83	1984 Mar 7 0800	Soyuz-U2	-	76032 -792 (-004)	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-026	2445770.21	1984 Mar 10 1700	Soyuz-U	-	Ts15000-309	5.400	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-029	2445776.48	1984 Mar 16 2329:59	Molniya 8K78M	2BL	78039 -637	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1984-030	2445780.96	1984 Mar 21 1105	Soyuz-U-PVB	-	77024 -779	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	NK9909-68	-
1984-032	2445794.05	1984 Apr 3 1308:42	Soyuz-U	-	Sc15000-395	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1984-033	2445794.57	1984 Apr 4 0140:04	Molniya 8K78M	2BL	77049 -643	1.578	UNKS	OS	-	G	Sat LEO O	NK9715-48	XPC	-
1984-036	2445801.08	1984 Apr 10 1400	Soyuz-U	-	76032 -808	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-038	2445805.84	1984 Apr 15 0812:53	Soyuz-U2	-	Yu15000-005	9.626	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1984-040	2445809.99	1984 Apr 19 1140	Soyuz-U	-	76032 -788	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-042	2445828.45	1984 May 7 2247:15	Soyuz-U	-	Sc15000-399	9.330	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1984-044	2445832.04	1984 May 11 1300	Soyuz-U	-	76032 -811	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-045	2445835.08	1984 May 14 1400	Soyuz-U	-	Yu15000-364	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-048	2445842.85	1984 May 22 0830	Soyuz-U	-	77046 -050	6.100	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1984-050	2445845.98	1984 May 25 1130	Soyuz-U	-	76032 -810	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-051	2445849.09	1984 May 28 1412:52	Soyuz-U	-	Sc15000-405	9.376	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1984-054	2445853.08	1984 Jun 1 1350	Soyuz-U	-	77046 -148	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-055	2445858.15	1984 Jun 6 1533:32	Molniya 8K78M	2BL	77024 -657	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-058	2445862.86	1984 Jun 11 0840	Soyuz-U	-	76032 -795	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-060	2445866.85	1984 Jun 15 0820	Soyuz-U	-	76032 -793	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1984-061	2445870.95	1984 Jun 19 1055	Soyuz-U	-	76032 -796	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-064	2445873.82	1984 Jun 22 0740	Soyuz-U	-	76032 -790	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1984-066	2445878.15	1984 Jun 26 1535	Soyuz-U	-	76032 -807	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-070	2445881.12	1984 Jun 29 1500	Soyuz-U	-	77046 -306	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-071	2445885.40	1984 Jul 3 2130:42	Molniya 8K78M	2BL	78012 -659	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-073	2445899.24	1984 Jul 17 1740:54	Soyuz-U2	-	Yu15000-006	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1984-074	2445900.85	1984 Jul 19 0830	Soyuz-U	-	77046 -149	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1984-075	2445906.03	1984 Jul 24 1240	Soyuz-U	-	77046 -150	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-076	2445908.87	1984 Jul 27 0859:59	Soyuz-U	-	77046 -307	6.300	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1984-077	2445913.02	1984 Jul 31 1229:54	Soyuz-U	-	77046 -823	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-079	2445914.86	1984 Aug 2 0838:16	Molniya 8K78M	2BL	76032 -667	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-082	2445919.08	1984 Aug 6 1400	Soyuz-U	-	76032 -794	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-085	2445922.50	1984 Aug 10 0003:58	Molniya 8K78M	ML	76032 -666 ?	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1984-086	2445926.77	1984 Aug 14 0628:15	Soyuz-U	-	Sc15000-411	9.517	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA074	-
1984-087	2445928.91	1984 Aug 16 0950	Soyuz-U	-	77046 -309	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1984-089	2445936.85	1984 Aug 24 0826:59	Molniya 8K78M	ML	78012 -661	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1984-092	2445942.92	1984 Aug 30 1010	Soyuz-U	-	77046 -151	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1984-094	2445947.93	1984 Sep 4 1020	Soyuz-U	-	77046 -308	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-096	2445951.30	1984 Sep 7 1912:58	Molniya 8K78M	2BL	76054 -651	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-099	2445956.93	1984 Sep 13 1025	Soyuz-U	-	77046 -051	6.100	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1984-102	2445969.10	1984 Sep 25 1430	Soyuz-U	-	77046 -902	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-103	2445970.84	1984 Sep 27 0810	Soyuz-U	-	77046 -320 (310?)	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-107	2445978.33	1984 Oct 4 1949:13	Molniya 8K78M	2BL	78012 -662	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1984-116	2446018.82	1984 Nov 14 0740	Soyuz-U	-	Yu15000-352	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-117	2446019.01	1984 Nov 14 1220	Soyuz-U	-	77046 -311	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-119	2446025.94	1984 Nov 21 1030	Soyuz-U	-	78056 -825	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-121	2446034.08	1984 Nov 29 1400	Soyuz-U-PVB	-	78024 -780	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1984-124	2446049.36	1984 Dec 14 2040:59	Molniya 8K78M	ML	76032 -672	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1985-002	2446074.95	1985 Jan 9 1045	Soyuz-U	-	77048 -819	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-004	2446081.77	1985 Jan 16 0622:30	Molniya 8K78M	ML	76032 -665	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1985-005	2446081.85	1985 Jan 16 0819	Soyuz-U	-	78056 -315	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-012	2446102.96	1985 Feb 6 1100	Soyuz-U	-	77046 -313	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-017	2446123.97	1985 Feb 27 1110	Soyuz-U	-	78056 -626	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-019	2446125.94	1985 Mar 1 1040	Soyuz-U	-	76032 -797	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-026	2446149.92	1985 Mar 25 1000	Soyuz-U	-	78056 -204	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-027	2446158.86	1985 Apr 3 0840	Soyuz-U	-	77046 -312	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-029	2446172.22	1985 Apr 16 1715	Soyuz-U	-	Sh15000-128	6.348	UNKS	OS	-	G	Sat LEO O	NK9721-34	XPC	-
1985-031	2446175.08	1985 Apr 19 1400	Soyuz-U	-	76032 -901	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-032	2446180.90	1985 Apr 25 0930	Soyuz-U	-	77046 -314	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-033	2446181.74	1985 Apr 26 0548	Molniya 8K78M	SOL	B 15000-252	1.328	UNKS	OS	-	G	Sat DSO OO 1	NK9521-43	Kosmodrom6-15	-
1985-036	2446201.03	1985 May 15 1240	Soyuz-U	-	78056 -316	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-038	2446207.86	1985 May 22 0835	Soyuz-U	-	78056 -152	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1985-039	2446209.03	1985 May 23 1240	Soyuz-U	-	78056 -827	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-040	2446214.82	1985 May 29 0740:44	Molniya 8K78M	ML	78056 -676	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1985-043	2446222.78	1985 Jun 6 0639:52	Soyuz-U2	-	B 15000-008	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1985-044	2446223.82	1985 Jun 7 0745	Soyuz-U-PVB	-	78012 -805	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1985-045	2446228.10	1985 Jun 11 1426:57	Molniya 8K78M	2BL	76032 -669	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-046	2446230.01	1985 Jun 13 1220	Soyuz-U	-	78056 -317	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-049	2446234.53	1985 Jun 18 0040:26	Molniya 8K78M	2BL	76032 -668	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-051	2446237.53	1985 Jun 21 0039:41	Soyuz-U	-	Sc15000-417	9.227	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA074	-
1985-052	2446237.82	1985 Jun 21 0745	Soyuz-U	-	76021 -155	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1985-054	2446243.02	1985 Jun 26 1235	Soyuz-U	-	78056 -319	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-057	2446250.01	1985 Jul 3 1210	Soyuz-U	-	78056 -320	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-059	2446256.64	1985 Jul 10 0315	Soyuz-U	-	B 15000-453	6.260	UNKS	OS	-	G	Sat LEO O	NK96-26-34	XPC	-
1985-060	2446261.77	1985 Jul 15 0630	Soyuz-U	-	76021 -325	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-061	2446263.55	1985 Jul 17 0105:00	Molniya 8K78M	ML	77024 -658	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1985-062	2446266.05	1985 Jul 19 1305:08	Soyuz-U	-	B 15000-446	9.504	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA074	-
1985-065	2446279.99	1985 Aug 2 1140	Soyuz-U	-	78056 -321	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-067	2446284.91	1985 Aug 7 0950	Soyuz-U	-	77011 -157	6.305	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1985-068	2446285.93	1985 Aug 8 1019	Soyuz-U	-	78056 -205	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-071	2446290.13	1985 Aug 12 1509:03	Molniya 8K78M	2BL	76032 -664	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-072	2446294.13	1985 Aug 16 1510	Soyuz-U	-	77046 -824	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-074	2446300.31	1985 Aug 22 1928:00	Molniya 8K78M	ML	78056 -679	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1985-077	2446306.93	1985 Aug 29 1015	Soyuz-U	-	76021 -153	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-078	2446306.98	1985 Aug 29 1133	Soyuz-U	-	78056 -828	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-080	2446314.95	1985 Sep 6 1045	Soyuz-U	-	77011 -052	6.100	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1985-081	2446326.03	1985 Sep 17 1238:52	Soyuz-U2	-	Sc15000-007	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1985-083	2446327.92	1985 Sep 19 1010	Soyuz-U	-	76021 -100	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-084	2446332.55	1985 Sep 24 0118:10	Molniya 8K78M	2BL	77046 -674	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-085	2446334.97	1985 Sep 26 1115	Soyuz-U	-	78056 -322	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-088	2446339.31	1985 Sep 30 1923:20	Molniya 8K78M	2BL	76032 -670	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-090	2446341.74	1985 Oct 3 0548	Vostok 8A92M	-	76053 -344	1.900	UNKS	OS	-	G	Sat LEO O	NK9422-46	Kosmodrom6-15	-
1985-091	2446341.81	1985 Oct 3 0733:00	Molniya 8K78M	ML	76021 -685	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1985-095	2446354.89	1985 Oct 16 0925	Soyuz-U	-	76021 -327	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-098	2446361.35	1985 Oct 22 2024:07	Molniya 8K78M	2BL	77046 -675	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-099	2446361.53	1985 Oct 23 0042:07	Molniya 8K78M	ML	78012 -663	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1985-101	2446364.11	1985 Oct 25 1440	Soyuz-U	-	77046 -913	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-103	2446367.23	1985 Oct 28 1724:58	Molniya 8K78M	ML	76021 -686	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1985-105	2446378.85	1985 Nov 9 0825:27	Molniya 8K78M	2BL	78056 -681 / 668?	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1985-106	2446383.02	1985 Nov 13 1225	Soyuz-U	-	77011 -331	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-111	2446403.01	1985 Dec 3 1215	Soyuz-U	-	76021 -154	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-112	2446411.11	1985 Dec 11 1440	Soyuz-U	-	76032 -812	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1985-115	2446412.82	1985 Dec 13 0745	Soyuz-U	-	76021 -156	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1985-117	2446424.29	1985 Dec 24 1856:00	Molniya 8K78M	ML	78056 -680	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1985-120	2446427.21	1985 Dec 27 1706	Soyuz-U	-	B 15000-468	5.400	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-001	2446438.98	1986 Jan 8 1125	Soyuz-U	-	78056 -323	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-004	2446446.10	1986 Jan 15 1420	Soyuz-U	-	76021 -837	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-009	2446458.86	1986 Jan 28 0835	Soyuz-U	-	76021 -330	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-011	2446463.26	1986 Feb 1 1811:56	Molniya 8K78M	2BL	78056 -677	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-012	2446465.97	1986 Feb 4 1115	Soyuz-U	-	76021 -324	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-013	2446468.86	1986 Feb 7 0845	Soyuz-U	-	77011 -208	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-020	2446488.07	1986 Feb 26 1339:59	Soyuz-U	-	77011 -838	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-022	2446503.02	1986 Mar 13 1233:09	Soyuz-U2	-	B 15000-012	6.850	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1986-023	2446508.92	1986 Mar 19 1008:25	Soyuz-U2	-	B 15000-010	9.752	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1986-F02	2446515.94	1986 Mar 26 1030	Soyuz-U	-	76021 -328	2.655	UNKS	OF	U	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1986-028	2446529.83	1986 Apr 9 0800	Soyuz-U	-	76021 -836	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-029	2446535.99	1986 Apr 15 1140:00	Soyuz-U	-	76021 -332	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-031	2446539.33	1986 Apr 18 1950:02	Molniya 8K78M	ML	77046 -673	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1986-032	2446544.32	1986 Apr 23 1940:05	Soyuz-U2	-	B 15000-009	9.655	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1986-033	2446565.03	1986 May 14 1240:00	Soyuz-U	-	77011 -336	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-035	2446571.85	1986 May 21 0821:51	Soyuz-U2	-	B 15000-013	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1986-036	2446572.19	1986 May 21 1630:00	Soyuz-U	-	I 15000-498	6.347	UNKS	OS	-	G	Sat LEO O	NK9721-34	XPC	-
1986-040	2446578.83	1986 May 28 0750:01	Soyuz-U	-	76048 -158	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1986-041	2446579.89	1986 May 29 0920	Soyuz-U	-	78056 -915	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-043	2446588.03	1986 Jun 6 1240	Soyuz-U	-	77011 -335	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-045	2446592.82	1986 Jun 11 0744:59	Soyuz-U	-	76021 -326	6.300	UNKS	OS	-	G	Sat LEO O	NK96-26-40	XPC	-
1986-048	2446600.94	1986 Jun 19 1030	Soyuz-U	-	76048 -348	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-049	2446601.38	1986 Jun 19 2109:00	Molniya 8K78M	ML	76054 -653	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1986-050	2446616.55	1986 Jul 5 0116:46	Molniya 8K78M	2BL	76021 -683	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-051	2446621.83	1986 Jul 10 0800:00	Soyuz-U	-	76048 -159	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1986-053	2446629.02	1986 Jul 17 1230	Soyuz-U	-	77011 -916	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-054	2446636.02	1986 Jul 24 1230:01	Soyuz-U	-	77011 -337	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-057	2446642.13	1986 Jul 30 1506:00	Molniya 8K78M	ML	76021 -688	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1986-058	2446644.89	1986 Aug 2 0920:00	Soyuz-U	-	78028 -160	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1986-060	2446649.06	1986 Aug 6 1330	Soyuz-U	-	78056 -445	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-063	2446663.96	1986 Aug 21 1105:00	Soyuz-U	-	76021 -329	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-064	2446669.99	1986 Aug 27 1140	Soyuz-U	-	77011 -917	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-065	2446670.84	1986 Aug 28 0802:43	Molniya 8K78M	2BL	76021 -687	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-066	2446676.83	1986 Sep 3 0759:59	Soyuz-U	-	76048 -351	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-068	2446678.88	1986 Sep 5 0912:59	Molniya 8K78M	ML	76048 -505	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1986-072	2446690.83	1986 Sep 17 0759	Soyuz-U	-	76048 -349	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-075	2446707.05	1986 Oct 3 1305:41	Molniya 8K78M	2BL	77011 -694	1.578	UNKS	OF40	S4U	G	Sat MOL OO 1	NK9701-29	XPC	Early shutdown
1986-077	2446709.82	1986 Oct 6 0740	Soyuz-U	-	77011 -447	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-078	2446718.90	1986 Oct 15 0929:18	Molniya 8K78M	2BL	76021 -684	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-079	2446723.87	1986 Oct 20 0849:00	Molniya 8K78M	ML	77049 -645	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1986-081	2446725.88	1986 Oct 22 0900	Soyuz-U	-	76048 -353	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-084	2446734.83	1986 Oct 31 0800:00	Soyuz-U	-	78028 -161	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1986-085	2446738.99	1986 Nov 4 1150:00	Soyuz-U	-	76048 -352	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-087	2446747.96	1986 Nov 13 1059:59	Soyuz-U	-	77011 -333	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-089	2446750.40	1986 Nov 15 2135:00	Molniya 8K78M	ML	76048 -508	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1986-091	2446755.01	1986 Nov 20 1209:20	Molniya 8K78M	2BL	77011 -689	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-095	2446768.92	1986 Dec 4 1010	Soyuz-U	-	76048 -851	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-098	2446777.27	1986 Dec 12 1835:36	Molniya 8K78M	2BL	76048 -509	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1986-099	2446781.08	1986 Dec 16 1400	Soyuz-U	-	78056 -318	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-102	2446790.96	1986 Dec 26 1100	Soyuz-U	-	78056 -206	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1986-103	2446791.14	1986 Dec 26 1525:59	Molniya 8K78M	ML	78028 -512	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1987-002	2446805.03	1987 Jan 9 1238:04	Soyuz-U	-	78028 -358	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-004	2446810.97	1987 Jan 15 1120:00	Soyuz-U	-	77011 -334	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-005	2446811.75	1987 Jan 16 0606:23	Soyuz-U2	-	B 15000-011	9.636	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-008	2446818.17	1987 Jan 22 1606:00	Molniya 8K78M	ML	77046 -671	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1987-013	2446832.40	1987 Feb 5 2138:16	Soyuz-U2	-	I 15000-014	7.230	UNKS	OS	-	G	Sat LSS O	NK9703-56	-	-
1987-014	2446833.94	1987 Feb 7 1030:00	Soyuz-U	-	76048 -350	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-019	2446845.93	1987 Feb 19 1015:00	Soyuz-U	-	78028 -357	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-021	2446853.06	1987 Feb 26 1330:00	Soyuz-U	-	78056 -914	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-023	2446857.97	1987 Mar 3 1114:05	Soyuz-U2	-	I 15000-016	9.330	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-025	2446865.93	1987 Mar 11 1025:00	Soyuz-U	-	78028 -359	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-032	2446894.99	1987 Apr 9 1144	Soyuz-U	-	77011 -918	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-033	2446901.76	1987 Apr 16 0618	Soyuz-U	-	77011 -209	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-034	2446907.13	1987 Apr 21 1514:17	Soyuz-U2	-	I 15000-015	9.327	UNKS	OS	-	G	Sat LEO O	NK9807-46	XPC	-
1987-035	2446907.88	1987 Apr 22 0910:01	Soyuz-U	-	78028 -356	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-037	2446910.21	1987 Apr 24 1659:59	Soyuz-U	-	I 15000-510	6.588	UNKS	OS	-	G	Sat LEO O	NK9721-34	XPC	-
1987-039	2446920.89	1987 May 5 0915	Soyuz-U	-	78028 -355	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-042	2446928.75	1987 May 13 0600	Soyuz-U	-	78028 -361	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-044	2446934.67	1987 May 19 0402:10	Soyuz-U2	-	I 15000-018	9.105	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-045	2446936.82	1987 May 21 0744:59	Soyuz-U	-	77015 -104	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1987-046	2446942.07	1987 May 26 1339:59	Soyuz-U	-	76048 -929	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-047	2446944.03	1987 May 28 1245:00	Soyuz-U	-	77015 -364	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-048	2446951.28	1987 Jun 4 1850:23	Molniya 8K78M	2BL	78028 -511	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1987-050	2446958.82	1987 Jun 12 0740:28	Molniya 8K78M	2BL	76048 -507	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1987-F04	2446964.81	1987 Jun 18 0724:59	Soyuz-U	-	77015 -105	6.015	UNKS	OF	S1P	G	Sat LEO O	NK95-20-29	NK9909-68	Blok D turbopump exploded
1987-056	2446981.02	1987 Jul 4 1225:00	Soyuz-U	-	76048 -354	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-058	2446984.96	1987 Jul 8 1059	Soyuz-U	-	76021 -446	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-059	2446986.17	1987 Jul 9 1610:00	Soyuz-U	-	78028 -931	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-063	2446998.58	1987 Jul 22 0159:17	Soyuz-U2	-	I 15000-019	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1987-066	2447011.36	1987 Aug 3 2044:11	Soyuz-U2	-	I 15000-017	9.653	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-069	2447026.79	1987 Aug 19 0659:59	Soyuz-U	-	77011 -839	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-072	2447041.93	1987 Sep 3 1024:59	Soyuz-U	-	76021 -207	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-076	2447049.59	1987 Sep 11 0206:00	Soyuz-U	-	78028 -852	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-077	2447053.94	1987 Sep 15 1030:00	Soyuz-U	-	76048 -210	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1987-081	2447056.12	1987 Sep 17 1459:59	Soyuz-U	-	78028 -853	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-082	2447062.49	1987 Sep 23 2343:54	Soyuz-U2	-	L 15000-021	9.376	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-083	2447068.03	1987 Sep 29 1249:59	Soyuz-U	-	L 15000-543	6.260	UNKS	OS	-	G	Sat LEO O	NK96-26-34	XPC	-
1987-085	2447077.85	1987 Oct 9 0830	Soyuz-U	-	77015 -368	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-089	2447091.10	1987 Oct 22 1424:57	Soyuz-U	-	76035 -945	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-092	2447110.88	1987 Nov 11 0904	Soyuz-U	-	78028 -211	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-093	2447113.90	1987 Nov 14 0929	Soyuz-U	-	77015 -459	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-094	2447120.49	1987 Nov 20 2347:12	Soyuz-U2	-	L 15000-022	8.977	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1987-099	2447136.87	1987 Dec 7 0850:00	Soyuz-U	-	76035 -370	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-102	2447143.98	1987 Dec 14 1129:59	Soyuz-U	-	77015 -943	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-104	2447150.97	1987 Dec 21 1118:03	Soyuz-U2	-	I 15000-020	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1987-105	2447151.44	1987 Dec 21 2235:42	Molniya 8K78M	2BL	78028 -514	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1987-107	2447154.86	1987 Dec 25 0844:59	Soyuz-U	-	77015 -369	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1987-108	2447155.98	1987 Dec 26 1130:01	Soyuz-U	-	L 15000-547	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1987-110	2447158.99	1987 Dec 29 1140:00	Soyuz-U	-	78028 -362	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-003	2447181.45	1988 Jan 20 2251:54	Soyuz-U2	-	L 15000-025	9.402	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-004	2447186.97	1988 Jan 26 1120:00	Soyuz-U	-	77015 -363	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-007	2447195.01	1988 Feb 3 1214:56	Soyuz-U	-	78028 -932	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-010	2447209.91	1988 Feb 18 0949:59	Soyuz-U	-	76035 -107	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1988-011	2447210.83	1988 Feb 19 0800	Soyuz-U	-	76035 -371	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-013	2447217.90	1988 Feb 26 0931:12	Molniya 8K78M	2BL	77015 -528	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1988-015	2447230.94	1988 Mar 10 1030:00	Soyuz-U	-	78028 -360	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-017	2447231.78	1988 Mar 11 0638:07	Molniya 8K78M	ML	78056 -678	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1988-021	2447237.78	1988 Mar 17 0643:00	Vostok 8A92M	-	L 15000-79	0.975	UNKS	OS	-	G/OG	Sat SSO O	AK15/RAEX	Kosmodrom6-15	-
1988-022	2447238.37	1988 Mar 17 2055:59	Molniya 8K78M	ML	78028 -513	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1988-024	2447244.38	1988 Mar 23 2105:12	Soyuz-U2	-	L 15000-026	9.320	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-025	2447245.09	1988 Mar 24 1410:00	Soyuz-U	-	76048 -850	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-027	2447251.00	1988 Mar 30 1200:00	Soyuz-U	-	77015 -365	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-030	2447262.97	1988 Apr 11 1115:00	Soyuz-U	-	77015 -367	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-031	2447266.21	1988 Apr 14 1700:00	Soyuz-U	-	B 15000-480	6.669	UNKS	OS	-	G	Sat LEO O	AVMP	NK9721-34	-
1988-032	2447271.74	1988 Apr 20 0548:12	Vostok 8A92M	-	I 15000-78	1.900	UNKS	OS	-	G	Sat LEO O	NK9422-46	Kosmodrom6-15	-
1988-035	2447278.88	1988 Apr 27 0910:00	Soyuz-U	-	76035 -375	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-037	2447294.11	1988 May 12 1439:59	Soyuz-U	-	77015 -106	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-038	2447294.52	1988 May 13 0030:25	Soyuz-U2	-	L 15000-023	9.414	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-041	2447299.94	1988 May 18 1030:01	Soyuz-U	-	76035 -460	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-042	2447300.89	1988 May 19 0915:00	Soyuz-U	-	76035 -378	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-044	2447308.14	1988 May 26 1527:00	Molniya 8K78M	ML	77011 -692	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1988-047	2447312.82	1988 May 31 0745:00	Soyuz-U	-	78039 -128	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1988-048	2447320.09	1988 Jun 7 1403:13	Soyuz-U2	-	I 15000-027	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1988-049	2447323.92	1988 Jun 11 1000:00	Soyuz-U	-	76035 -376	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-054	2447335.04	1988 Jun 22 1300:00	Soyuz-U	-	76035 -373	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-055	2447335.82	1988 Jun 23 0745:00	Soyuz-U	-	77015 -366	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-057	2447349.84	1988 Jul 7 0805:00	Soyuz-U	-	78039 -129	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1988-F02	2447352.06	1988 Jul 9 1325:00	Soyuz-U	-	78028 -212	5.820	UNKS	OF	U	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1988-061	2447361.38	1988 Jul 18 2113:09	Soyuz-U2	-	L 15000-024	9.370	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-F04	2447369.88	1988 Jul 27 0905:00	Soyuz-U	-	78039 -130	6.015	UNKS	OF	S1G	G	Sat LEO O	NK95-20-29	NK9909-68	Control system failed
1988-068	2447381.89	1988 Aug 8 0925:00	Soyuz-U	-	76035 -946	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-069	2447386.04	1988 Aug 12 1253:00	Molniya 8K78M	ML	76035 -532	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1988-070	2447390.04	1988 Aug 16 1300:00	Soyuz-U	-	76035 -947	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-072	2447396.89	1988 Aug 23 0920:00	Soyuz-U	-	78039 -381	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-073	2447396.97	1988 Aug 23 1115:00	Soyuz-U	-	E 15000-569	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1988-075	2447402.68	1988 Aug 29 0423:11	Soyuz-U2	-	L 15000-030	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1988-076	2447404.09	1988 Aug 30 1414:54	Molniya 8K78M	2BL	77015 -526	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1988-079	2447410.81	1988 Sep 6 0730:01	Soyuz-U	-	76035 -377	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-082	2447413.94	1988 Sep 9 1040:00	Soyuz-U	-	78039 -131	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1988-083	2447414.48	1988 Sep 9 2333:40	Soyuz-U2	-	Ye15000-031	9.245	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-084	2447420.12	1988 Sep 15 1500:00	Soyuz-U	-	76048 -930	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-088	2447426.93	1988 Sep 22 1020:00	Soyuz-U-PVB	-	76035 -379	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-090	2447433.88	1988 Sep 29 0907:00	Molniya 8K78M	ML	76048 -510	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1988-092	2447438.43	1988 Oct 3 2223:39	Molniya 8K78M	2BL	76035 -531	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1988-094	2447447.97	1988 Oct 13 1119:59	Soyuz-U	-	78039 -387	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-096	2447460.25	1988 Oct 25 1802:31	Molniya 8K78M	2BL	76035 -534	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1988-097	2447461.98	1988 Oct 27 1131:00	Soyuz-U	-	77059 -390	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-F05	2447476.94	1988 Nov 11 1030:00	Soyuz-U	-	76035 -713	5.820	UNKS	OF	S3P	G	Sat LEO O	AK15	AVMNLJ	Details unknown
1988-103	2447490.12	1988 Nov 24 1450:00	Soyuz-U	-	76035 -372	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-104	2447492.16	1988 Nov 26 1549:34	Soyuz-U2	-	Ye15000-028	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1988-105	2447495.88	1988 Nov 30 0900:00	Soyuz-U	-	76035 -374	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-107	2447504.12	1988 Dec 8 1450:00	Soyuz-U-PVB	-	76035 -380	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-110	2447512.29	1988 Dec 16 1900:00	Soyuz-U	-	78039 -968	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1988-112	2447518.09	1988 Dec 22 1415:59	Molniya 8K78M	ML	77011 -690	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1988-114	2447520.67	1988 Dec 25 0411:37	Soyuz-U2	-	Ye15000-029	9.257	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1988-115	2447523.73	1988 Dec 28 0527:59	Molniya 8K78M	ML	78039 -559	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1988-116	2447524.92	1988 Dec 29 1000:00	Soyuz-U	-	78028 -458	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-002	2447538.98	1989 Jan 12 1129:59	Soyuz-U	-	Ye15000-580	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-003	2447544.85	1989 Jan 18 0820:00	Soyuz-U	-	77059 -388	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-007	2447555.02	1989 Jan 28 1230:00	Soyuz-U	-	77015 -944	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-008	2447567.87	1989 Feb 10 0853:52	Soyuz-U2	-	Ye15000-032	9.015	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1989-010	2447568.20	1989 Feb 10 1655:00	Soyuz-U	-	77059 -974	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-011	2447571.68	1989 Feb 14 0421:11	Molniya 8K78M	2BL	78039 -557	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1989-014	2447572.96	1989 Feb 15 1100:00	Molniya 8K78M	ML	77011 -691	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1989-015	2447575.12	1989 Feb 17 1459:59	Soyuz-U	-	78039 -384	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-019	2447588.29	1989 Mar 2 1859:59	Soyuz-U	-	78039 -969	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-022	2447602.12	1989 Mar 16 1459:59	Soyuz-U-PVB	-	78039 -382	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-023	2447602.29	1989 Mar 16 1854:15	Soyuz-U2	-	T 15000-034	9.233	UNKS	OS	-	G	Sat LSS O	NK9807-46	XPC	-
1989-024	2447609.02	1989 Mar 23 1225:00	Soyuz-U	-	77015 -875	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-029	2447623.08	1989 Apr 6 1400:00	Soyuz-U-PVB	-	78039 -383	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-031	2447637.27	1989 Apr 20 1829:59	Soyuz-U	-	77059 -391	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-032	2447643.21	1989 Apr 26 1700:00	Soyuz-U	-	T 15000-593	6.660	UNKS	OS	-	G	Sat LEO O	AVMP	NK9721-34	-
1989-034	2447652.04	1989 May 5 1300:00	Soyuz-U-PVB	-	77059 -394	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-036	2447664.04	1989 May 17 1300:00	Soyuz-U	-	76035 -876	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-037	2447670.94	1989 May 24 1030:00	Soyuz-U	-	77059 -471	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-038	2447671.87	1989 May 25 0850:00	Soyuz-U-PVB	-	76047 -145	6.456	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-040	2447679.04	1989 Jun 1 1259:59	Soyuz-U	-	77059 -389	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-043	2447686.22	1989 Jun 8 1709:59	Molniya 8K78M	ML	76048 -506	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1989-047	2447693.90	1989 Jun 16 0930:00	Soyuz-U	-	77059 -398	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-049	2447704.84	1989 Jun 27 0804:59	Soyuz-U	-	76047 -146	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-051	2447712.83	1989 Jul 5 0800:00	Soyuz-U-PVB	-	77059 -395	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-054	2447720.12	1989 Jul 12 1500:00	Soyuz-U	-	78039 -970	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-055	2447725.91	1989 Jul 18 0944:59	Soyuz-U	-	76047 -147	6.456	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-056	2447726.01	1989 Jul 18 1210:00	Soyuz-U	-	T 15000-594	7.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1989-057	2447727.87	1989 Jul 20 0859:59	Soyuz-U	-	77059 -393	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-060	2447740.98	1989 Aug 2 1129:59	Soyuz-U	-	77059 -396	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-063	2447753.94	1989 Aug 15 1029:59	Soyuz-U	-	77017 -254	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-065	2447761.04	1989 Aug 22 1259:59	Soyuz-U	-	76047 -809	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-066	2447761.63	1989 Aug 23 0309:32	Soyuz-U2	-	T 15000-037	9.952	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1989-071	2447775.40	1989 Sep 5 2138:03	Soyuz-U2	-	T 15000-036	7.230	UNKS	OS	-	G	Sat LSS O	NKO204-71	-	-
1989-073	2447775.95	1989 Sep 6 1049:59	Soyuz-U-PVB	-	76047 -810	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1989-075	2447784.77	1989 Sep 15 0630:02	Soyuz-U	-	T 15000-599	6.260	UNKS	OS	-	G	Sat LEO O	NK96-26-34	XPC	-
1989-076	2447791.83	1989 Sep 22 0800:00	Soyuz-U	-	77059 -392	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-078	2447797.11	1989 Sep 27 1438:00	Molniya 8K78M	ML	78039 -556	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1989-082	2447803.12	1989 Oct 3 1459:59	Soyuz-U	-	78039 -386	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-083	2447817.04	1989 Oct 17 1300:00	Soyuz-U	-	77059 -397	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-088	2447847.95	1989 Nov 17 1050:00	Soyuz-U	-	78039 -725	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-091	2447854.36	1989 Nov 23 2035:44	Molniya 8K78M	2BL	77059 -563	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1989-094	2447858.92	1989 Nov 28 1002:00	Molniya 8K78M	ML	78039 -555	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1989-095	2447861.13	1989 Nov 30 1500:01	Soyuz-U	-	78039 -971	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1989-099	2447880.65	1989 Dec 20 0330:50	Soyuz-U2	-	T 15000-039	10.026	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1990-003	2447909.11	1990 Jan 17 1445:00	Soyuz-U	-	78047 -148	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-006	2447914.62	1990 Jan 23 0251:59	Molniya 8K78M	ML	77015 -527	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1990-009	2447917.22	1990 Jan 25 1715:00	Soyuz-U	-	77059 -971	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-014	2447933.76	1990 Feb 11 0616:00	Soyuz-U2	-	T 15000-038	7.230	UNKS	OS	-	G	Sat LSS O	NKO204-71	-	-
1990-020	2447951.47	1990 Feb 28 2310:57	Soyuz-U2	-	T 15000-040	9.892	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1990-024	2447972.81	1990 Mar 22 0720:00	Soyuz-U	-	78039 -385	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-026	2447978.19	1990 Mar 27 1640:08	Molniya 8K78M	2BL	77059 -566	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1990-F02	2447985.25	1990 Apr 3 1800:00	Soyuz-U	-	76047 -975	5.684	UNKS	OF	S3P	G	Sat LEO O	AK15	AVMNLJ	Failed T+5:58
1990-032	2447993.21	1990 Apr 11 1700:00	Soyuz-U	-	G 15000-590	6.782	UNKS	OS	-	G	Sat LEO O	AVMP	NK9721-34	-
1990-033	2447995.29	1990 Apr 13 1853:16	Soyuz-U	-	76035 -714	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-035	2447998.83	1990 Apr 17 0800:00	Soyuz-U	-	77053 -814	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-039	2448007.57	1990 Apr 26 0137:00	Molniya 8K78M	ML	77015 -525	1.978	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1990-040	2448009.98	1990 Apr 28 1137:02	Molniya 8K78M	2BL	76047 -570	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1990-041	2448017.36	1990 May 5 2044:01	Soyuz-U2	-	T 15000-041	9.411	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1990-042	2448019.28	1990 May 7 1839:59	Soyuz-U	-	77059 -973	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-044	2448026.91	1990 May 15 0955:00	Soyuz-U	-	77059 -472	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-047	2448040.81	1990 May 29 0719:59	Soyuz-U	-	77053 -149	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1990-052	2448055.55	1990 Jun 13 0107:00	Molniya 8K78M	ML	77015 -530	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1990-053	2448061.86	1990 Jun 19 0845:00	Soyuz-U	-	77053 -815	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-055	2448064.37	1990 Jun 21 2045:52	Molniya 8K78M	2BL	78039 -560	1.578	UNKS	OF40	S4I	G	Sat MOL OO 1	NK9701-29	NK9715-48	Attitude loss in coast
1990-F03	2448076.31	1990 Jul 3 1919:58	Soyuz-U	-	77015 -874	5.684	UNKS	OF	S2E	G	Sat LEO O	AK15	AVMNLJ	Electrical issue?
1990-058	2448083.92	1990 Jul 11 1000:00	Soyuz-U2	-	G 15000-035	7.320	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1990-060	2448089.90	1990 Jul 17 0929:59	Soyuz-U-PVB	-	78023 -265	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1990-062	2448092.86	1990 Jul 20 0840:00	Soyuz-U	-	78023 -816	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-064	2448098.26	1990 Jul 25 1813:56	Molniya 8K78M-PVB	2BL	77017 -572	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1990-067	2448104.90	1990 Aug 1 0932:21	Soyuz-U2	-	G 15000-043	7.230	UNKS	OS	-	G	Sat LSS O	NKO204-71	-	-
1990-069	2448107.32	1990 Aug 3 1945:00	Soyuz-U-PVB	-	76047 -976	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-071	2448114.35	1990 Aug 10 2018:58	Molniya 8K78M	ML	77011 -693	1.998	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1990-072	2448118.67	1990 Aug 15 0400:41	Soyuz-U2	-	G 15000-042	9.983	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1990-073	2448119.91	1990 Aug 16 0954:59	Soyuz-U-PVB	-	77053 -150	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1990-076	2448131.83	1990 Aug 28 0749:13	Molniya 8K78M-PVB	2BL	77017 -575	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1990-080	2448134.83	1990 Aug 31 0800:00	Soyuz-U	-	77053 -811	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-082	2448142.00	1990 Sep 7 1159:59	Soyuz-U-PVB	-	78023 -151	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	NK9911-24	-
1990-084	2448155.35	1990 Sep 20 2016:59	Molniya 8K78M	ML	77059 -562	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	XPC	-
1990-085	2448161.94	1990 Sep 27 1037:42	Soyuz-U2	-	G 15000-044	9.914	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA	-
1990-087	2448165.96	1990 Oct 1 1100:00	Soyuz-U2	-	G 15000-047	7.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-092	2448181.29	1990 Oct 16 1900:00	Soyuz-U	-	76047 -977	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-098	2448212.19	1990 Nov 16 1630:00	Soyuz-U	-	77053 -812	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-099	2448215.61	1990 Nov 20 0233:14	Molniya 8K78M-PVB	2BL	76047 -568	1.578	UNKS	OS	-	G	Sat MOL OO 1	NK9715-48	XPC	-
1990-101	2448218.66	1990 Nov 23 0351:00	Molniya 8K78M	ML	77015 -529	1.998	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	XPC	-
1990-107	2448227.84	1990 Dec 2 0813:32	Soyuz-U2	-	T 15000-046	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1990-109	2448230.27	1990 Dec 4 1830:00	Soyuz-U	-	76047 -978	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-113	2448246.76	1990 Dec 21 0620:11	Soyuz-U	-	77017 -739	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1990-115	2448251.97	1990 Dec 26 1110:00	Soyuz-U-PVB	-	77053 -813	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	XPC	-
1991-002	2448271.12	1991 Jan 14 1450:27	Soyuz-U2	-	G 15000-045	9.671	UNKS	OS	-	G	Sat LSS O	NK9807-46	-	-
1991-004	2448273.94	1991 Jan 17 1030:01	Soyuz-U-PVB	-	78023 -817	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-008	2448295.26	1991 Feb 7 1815:00	Soyuz-U	-	77017 -980	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-011	2448302.90	1991 Feb 15 0930:00	Soyuz-U	-	77053 -483	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-012	2448303.14	1991 Feb 15 1519:00	Molniya 8K78M	ML	77017 -571	1.998	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	-	-
1991-016	2448322.15	1991 Mar 6 1530:00	Soyuz-U-PVB	-	78023 -819	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-020	2448335.05	1991 Mar 19 1305:15	Soyuz-U2	-	R 15000-049	9.849	UNKS	OS	-	G	Sat LSS O	NK9807-46	-	-
1991-022	2448338.01	1991 Mar 22 1219:59	Molniya 8K78M	ML	77017 -574	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	-	-
1991-023	2448342.07	1991 Mar 26 1345:00	Soyuz-U	-	77053 -982	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-034	2448395.04	1991 May 18 1250:28	Soyuz-U2	-	R 15000-051	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1991-035	2448397.88	1991 May 21 0900:00	Soyuz-U-PVB	-	78023 -266	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	-	-
1991-036	2448401.15	1991 May 24 1529:59	Soyuz-U	-	77017 -981	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-038	2448406.84	1991 May 30 0804:03	Soyuz-U2	-	R 15000-050	10.010	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA034	-
1991-043	2448425.88	1991 Jun 18 0909:00	Molniya 8K78M	ML	77053 -606	1.998	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	-	-
1991-044	2448435.84	1991 Jun 28 0809:59	Soyuz-U-PVB	-	78023 -153	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	-	-
1991-048	2448446.90	1991 Jul 9 0940:00	Soyuz-U-PVB	-	78023 -818	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-049	2448448.08	1991 Jul 10 1400:00	Soyuz-U	-	77059 -726	7.000	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1991-052	2448460.88	1991 Jul 23 0905:00	Soyuz-U	-	78012 -152	6.300	UNKS	OS	-	G	Sat LEO O	NK95-20-29	-	-
1991-053	2448470.00	1991 Aug 1 1153:00	Molniya 8K78M	ML	76035 -533	1.998	UNKS	OS	-	G	Sat MOL OO 1	AK15/RAEX	-	-
1991-057	2448489.45	1991 Aug 20 2254:10	Soyuz-U2	-	R 15000-052	10.041	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA034	-
1991-058	2448489.95	1991 Aug 21 1050:00	Soyuz-U-PVB	-	78012 -269	6.450	UNKS	OS	-	G	Sat LEO O	NK95-20-29	-	-
1991-061	2448497.78	1991 Aug 29 0648:43	Vostok 8A92M	-	I 15000-079	0.990	UNKS	OS	-	G/OG	Sat SSO O	NK91-3-3	Kosmodrom6-15	-
1991-065	2448517.33	1991 Sep 17 2001:59	Molniya 8K78M	ML	76047 -569	2.078	UNKS	OS	-	G	Sat MOL OO 1	NK9815-26	-	-
1991-066	2448519.18	1991 Sep 19 1620:00	Soyuz-U	-	77053 -983	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-069	2448531.75	1991 Oct 2 0559:38	Soyuz-U2	-	R 15000-054	7.230	UNKS	OS	-	G	Sat LSS O	NK0204-71	-	-
1991-070	2448534.26	1991 Oct 4 1810:00	Soyuz-U-PVB	-	R 15000-026	6.711	UNKS	OS	-	G	Sat LEO O	AVMP	NK9721-34	-
1991-071	2448539.05	1991 Oct 9 1315:00	Soyuz-U2	-	G 15000-048	7.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	Kosmodrom6-15	-
1991-073	2448546.50	1991 Oct 17 0005:25	Soyuz-U2	-	R 15000-055	9.930	UNKS	OS	-	G	Sat LSS O	NK9807-46	VSA030	-
1991-078	2448581.30	1991 Nov 20 1915:00	Soyuz-U	-	77053 -984	6.600	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1991-085	2448607.96	1991 Dec 17 1100:00	Soyuz-U	-	76032 -494	6.300	UNKS	OS	-	G	Sat LEO O	AK15/RAEX	-	-
1992-001	2448643.12	1992 Jan 21 1500:00	Soyuz-U	-	77053 -985	6.600	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-003	2448645.55	1992 Jan 24 0118:01	Molniya 8K78M	2BL	78023 -608	1.578	UNKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1992-004	2448646.83	1992 Jan 25 0750:17	Soyuz-U2	-	R 15000-058	9.896	UNKSR	OS	-	G	Sat LSS O	NK9807-46	VSA030	-
1992-011	2448685.69	1992 Mar 4 0427:00	Molniya 8K78M	ML	76047 -567	1.998	UNKSR	OS	-	G	Sat MOL OO 1	NK9305-11	-	-
1992-014	2448698.95	1992 Mar 17 1054:30	Soyuz-U2	-	R 15000-056	7.230	UNKSR	OS	-	G	Sat LSS O	NK0204-71	-	-
1992-016	2448714.10	1992 Apr 1 1418:00	Soyuz-U-PVB	-	78023 -988	6.600	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-018	2448721.01	1992 Apr 8 1220:00	Soyuz-U	-	77053 -750	7.000	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-022	2448732.40	1992 Apr 19 2129:25	Soyuz-U2	-	R 15000-059	10.069	UNKSR	OS	-	G	Sat LSS O	NK9807-46	VSA031	-
1992-024	2448741.88	1992 Apr 29 0900:00	Soyuz-U	-	78012 -267	6.450	UNKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1992-025	2448741.92	1992 Apr 29 1010:00	Soyuz-U	-	77017 -738	6.300	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-029	2448771.30	1992 May 28 1909:59	Soyuz-U	-	78023 -986	6.600	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-033	2448796.83	1992 Jun 23 0800:00	Soyuz-U-PVB	-	78012 -154	6.300	UNKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1992-035	2448804.20	1992 Jun 30 1643:13	Soyuz-U2	-	U 15000-062	10.072	UNKSR	OS	-	G	Sat LSS O	NK9807-46	VSA031	-
1992-040	2448811.91	1992 Jul 8 0953:14	Molniya 8K78M-PVB	2BL	77053 -605	1.578	UNKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1992-045	2448828.32	1992 Jul 24 1940:00	Soyuz-U	-	78012 -989	6.600	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-046	2448830.76	1992 Jul 27 0608:42	Soyuz-U2	-	R 15000-053	7.230	UNKSR	OS	-	G	Sat LSS O	NK0204-71	-	-
1992-048	2448833.96	1992 Jul 30 1100:00	Soyuz-U-PVB	-	76032 -832	6.300	UNKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-050	2448841.31	1992 Aug 6 1930:59	Molniya 8K78M	ML	78039 -558	1.998	UNKSR	OS	-	G	Sat MOL OO 1	NK9305-11	-	-
1992-055	2448850.43	1992 Aug 15 2218:32	Soyuz-U2	-	U 15000-064	9.708	VKSR	OS	-	G	Sat LSS O	NK9807-46	VSA038	-
1992-056	2448853.93	1992 Aug 19 1020:00	Soyuz-U	-	76024 -157	6.420	VKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1992-062	2448888.17	1992 Sep 22 1610:00	Soyuz-U	-	78023 -987	6.600	VKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-065	2448904.29	1992 Oct 8 1900:00	Soyuz-U	-	U 15000-623	6.707	VKSR	OS	-	G	Sat LEO O	AVMP	NK9721-34	-
1992-067	2448910.33	1992 Oct 14 1958:00	Molniya 8K78M-PVB	ML	78012 -641	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9305-11	NK9815-26	-
1992-069	2448916.93	1992 Oct 21 1021:22	Molniya 8K78M-PVB	2BL	77053 -604	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1992-071	2448923.22	1992 Oct 27 1719:41	Soyuz-U2	-	U 15000-061	9.919	VKSR	OS	-	G	Sat LSS O	NK9807-46	VSA038	-
1992-075	2448942.41	1992 Nov 15 2145:01	Soyuz-U-PVB	-	U 15000-037	5.519	VKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1992-077	2448947.15	1992 Nov 20 1529:59	Soyuz-U	-	78012 -990	6.600	VKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-081	2448952.01	1992 Nov 25 1218:54	Molniya 8K78M-PVB	2BL	77059 -565	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9305-11	NK9715-48	-
1992-085	2448958.58	1992 Dec 2 0157:00	Molniya 8K78M-PVB	ML	78023 -607	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9305-11	NK9815-26	-
1992-087	2448965.98	1992 Dec 9 1125:00	Soyuz-U	-	76032 -495	7.000	VKSR	OS	-	G	Sat LEO O	NK9305-11	-	-
1992-091	2448979.00	1992 Dec 22 1200:00	Soyuz-U	-	76032 -314	7.600	VKSR	OS	-	G	Sat LEO O	NK9305-11	Kosmodrom6-15	-
1992-095	2448986.06	1992 Dec 29 1330:01	Soyuz-U-PVB	-	U 15000-033	6.260	VKSR	OS	-	G	Sat LEO O	NK96-26-34	NK9909-68	-
1993-002	2449000.58	1993 Jan 13 0149:00	Molniya 8K78M	ML	78012 -643	1.998	VKSR	OS	-	G	Sat MOL OO 1	AVMP	-	-
1993-004	2449007.12	1993 Jan 19 1449:01	Soyuz-U	-	77017 -979	6.600	VKSR	OS	-	G	Sat LEO O	AVMP	-	-
1993-005	2449011.75	1993 Jan 24 0558:05	Soyuz-U2	-	U 15000-060	7.230	VKSR	OS	-	G	Sat LSS O	NK0204-71	-	-
1993-006	2449014.16	1993 Jan 26 1555:26	Molniya 8K78M	2BL	78023 -609	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1993-012	2449040.27	1993 Feb 21 1832:33	Soyuz-U2	-	U 15000-068	9.936	VKSR	OS	-	G	Sat LSS O	NK9807-46	AVMP	-
1993-019	2449077.65	1993 Mar 31 0334:13	Soyuz-U2	-	N 15000-069	9.934	VKSR	OS	-	G	Sat LSS O	NK9807-46	AVMP	-
1993-021	2449080.10	1993 Apr 2 1430:01	Soyuz-U	-	78012 -991	6.600	VKSR	OS	-	G	Sat LEO O	NK9317-20	-	-
1993-022	2449084.30	1993 Apr 6 1907:27	Molniya 8K78M	2BL	78012 -644	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9317-20	NK9715-48	-
1993-025	2449098.52	1993 Apr 21 0023:00	Molniya 8K78M	ML	76032 -646	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9317-20	NK9815-26	-
1993-028	2449104.94	1993 Apr 27 1035:00	Soyuz-U	-	76047 -737	6.300	VKSR	OF25	S3S	G	Sat LEO O	NK9317-20	-	Control lost late in burn, bad s
1993-033	2449128.89	1993 May 21 0915:01	Soyuz-U	-	78012 -830	6.450	VKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1993-034	2449129.78	1993 May 22 0641:47	Soyuz-U2	-	U 15000-063 (Kero)	9.540	VKSR	OS	-	G	Sat LSS O	NK9317-20	NK9807-46	-
1993-035	2449133.64	1993 May 26 0323:59	Molniya 8K78M	ML	77044 -660	1.998	VKSR	OS	-	G	Sat MOL OO 1	AK15/RAEX	-	-
1993-040	2449163.85	1993 Jun 25 0820:00	Soyuz-U-PVB	-	76024 -156	6.300	VKSR	OS	-	G	Sat LEO O	NK95-20-29	-	-
1993-043	2449170.11	1993 Jul 1 1432:58	Soyuz-U2	-	N 15000-070	7.230	VKSR	OS	-	G	Sat LSS O	NK0204-71	-	-
1993-045	2449183.19	1993 Jul 14 1640:00	Soyuz-U-PVB	-	76024 -994	6.600	VKSR	OS	-	G	Sat LEO O	WSL	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-047	2449190.86	1993 Jul 22 0845:00	Soyuz-U-PVB	-	76024 -269	6.300	VKSR	OS	-	G	Sat LEO 0	NK96-26-40	-	-
1993-049	2449203.54	1993 Aug 4 0052:00	Molniya 8K78M	ML	76024 -659	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9815-26	NK9815-26	-
1993-051	2449210.12	1993 Aug 10 1453:45	Molniya 8K78M	2BL	78023 -610	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1993-052	2449210.43	1993 Aug 10 2223:45	Soyuz-U	-	N 15000-634	9.379	VKSR	OS	-	G	Sat LEO 0	NK9807-46	AVMP	-
1993-053	2449223.95	1993 Aug 24 1045:00	Soyuz-U-PVB	-	78012 -155	6.300	VKSR	OS	-	G	Sat LEO 0	NK95-20-29	-	-
1993-057	2449238.06	1993 Sep 7 1325:00	Soyuz-U2	-	77044 -356	7.600	VKSR	OS	-	G	Sat LEO 0	AVMP	-	-
1993-064	2449272.40	1993 Oct 11 2133:19	Soyuz-U	-	77044 -270	9.340	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMP	-
1993-071	2449296.85	1993 Nov 5 0825:00	Soyuz-U	-	76024 -496	7.000	VKSR	OS	-	G	Sat LEO 0	AVMP	-	-
1993-079	2449344.36	1993 Dec 22 2037:16	Molniya 8K78M	ML	78024 -658	1.998	VKSR	OS	-	G	Sat MOL OO 1	AVMP	-	-
1994-001	2449360.92	1994 Jan 8 1005:34	Soyuz-U2	-	N 15000-071	7.230	VKSR	OS	-	G	Sat LSS 0	NK9501-24	AVMP	-
1994-005	2449380.59	1994 Jan 28 0212:10	Soyuz-U	-	N 15000-635	9.515	VKSR	OS	-	G	Sat LSS 0	NK9807-46	-	-
1994-018	2449429.19	1994 Mar 17 1630:00	Soyuz-U-PVB	-	76032 -993	6.600	VKSR	OS	-	G	Sat LEO 0	NK9501-24	AVMP	-
1994-019	2449433.70	1994 Mar 22 0454:12	Soyuz-U	-	76032 -992	9.466	VKSR	OS	-	G	Sat LSS 0	NK9807-46	NK9501-24	-
1994-025	2449471.22	1994 Apr 28 1714:00	Soyuz-U	-	78023 -751	7.000	VKSR	OS	-	G	Sat LEO 0	NK9501-24	AVMP	-
1994-031	2449494.69	1994 May 22 0430:04	Soyuz-U2	-	76024 -355	9.324	VKSR	OS	-	G	Sat LSS 0	NK9807-46	NK9501-24	(ex-U2)
1994-032	2449510.81	1994 Jun 7 0720:00	Soyuz-U-PVB	-	78012 -831	6.300	VKSR	OS	-	G	Sat LEO 0	NK96-26-40	-	-
1994-033	2449518.17	1994 Jun 14 1605:00	Soyuz-U-PVB	-	N 15000-040	6.747	VKSR	OS	-	G	Sat LEO 0	NK9501-24	NK9721-34	-
1994-036	2449535.02	1994 Jul 1 1224:50	Soyuz-U2	-	N 15000-072	7.230	VKSR	OS	-	G	Sat LSS 0	NK9501-24	AVMP	-
1994-042	2449554.23	1994 Jul 20 1735:00	Soyuz-U-PVB	-	77044 -995	6.600	VKSR	OS	-	G	Sat LEO 0	NK9501-24	AVMP	-
1994-044	2449562.90	1994 Jul 29 0930:00	Soyuz-U	-	77031 -497	6.300	VKSR	OS	-	G	Sat LEO 0	NK9501-24	-	-
1994-048	2449569.55	1994 Aug 5 0112:21	Molniya 8K78M	2BL	78012 -642	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1994-051	2449588.10	1994 Aug 23 1430:59	Molniya 8K78M	ML	77044 -661	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9501-24	NK9815-26	-
1994-052	2449590.10	1994 Aug 25 1425:12	Soyuz-U	-	N 15000-636	9.480	VKSR	OS	-	G	Sat LSS 0	NK9807-46	NK9501-24	-
1994-063	2449629.45	1994 Oct 3 2242:30	Soyuz-U2	-	Ya15000-074	7.230	VKSR	OS	-	G	Sat LSS 0	NK9420-5	-	-
1994-075	2449667.81	1994 Nov 11 0721:58	Soyuz-U	-	Ya15000-638	9.505	VKSR	OS	-	G	Sat LSS 0	NK9807-46	NK9501-24	-
1994-081	2449701.10	1994 Dec 14 1421:00	Molniya 8K78M	ML	77031 -672	1.998	VKSR	OS	-	G	Sat MOL OO 1	NK9501-24	AVMN	-
1994-088	2449715.98	1994 Dec 29 1130:00	Soyuz-U	-	76032 -762	7.000	VKSR	OS	-	G	Sat LEO 0	AVMN	-	-
1995-005	2449764.20	1995 Feb 15 1648:28	Soyuz-U	-	Ya15000-641	9.527	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1995-006	2449765.24	1995 Feb 16 1739:59	Soyuz-U	-	Ya15000-051	6.796	VKSR	OS	-	G	Sat LEO 0	NK9721-34	-	-
1995-010	2449790.76	1995 Mar 14 0611:34	Soyuz-U2	-	V 15000-075	7.170	VKSR	OS	-	G	Sat LSS 0	AVMN	-	-
1995-014	2449799.20	1995 Mar 22 1644:59	Soyuz-U-PVB	-	77031 -507	6.600	VKSR	OS	-	G	Sat LEO 0	AVMN	-	-
1995-020	2449817.32	1995 Apr 9 1934:12	Soyuz-U	-	V 15000-646	9.580	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1995-026	2449862.34	1995 May 24 2010:09	Molniya 8K78M	2BL	77017 -573	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9715-48	-	-
1995-031	2449897.27	1995 Jun 28 1825:00	Soyuz-U-PVB	-	77031 -506	6.600	VKSR	OS	-	G	Sat LEO 0	AVMN	-	-
1995-036	2449918.63	1995 Jul 20 0304:41	Soyuz-U	-	V 15000-643	9.505	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1995-039	2449932.50	1995 Aug 2 2359:11	Molniya 8K78M	2BL	N 15000-294	1.637	VKSR	OS	-	G	Sat DSO OO 1	NK9516-38	-	-
1995-042	2449938.60	1995 Aug 9 0221:00	Molniya 8K78M	ML	77031 -674	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9516-48	NK9815-26	-
1995-047	2449963.88	1995 Sep 3 0900:23	Soyuz-U2	-	V 15000-076	7.230	VKSR	OS	-	G	Sat LSS 0	AVMN	-	-
1995-050	2449986.97	1995 Sep 26 1120:00	Soyuz-U	-	V 15000-053	6.450	VKSR	OS	-	G	Sat LEO 0	AVMN	-	-
1995-051	2449989.68	1995 Sep 29 0425:00	Soyuz-U	-	Ya15000-642	7.000	VKSR	OS	-	G	Sat LEO 0	AVMN	-	-
1995-053	2449999.29	1995 Oct 8 1850:40	Soyuz-U	-	V 15000-645	9.504	VKSR	OS	-	G	Sat LSS 0	NK9807-46	VSA062	-
1995-070	2450070.11	1995 Dec 18 1431:35	Soyuz-U	-	V 15000-647	9.393	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1995-072	2450079.78	1995 Dec 28 0645:18	Molniya 8K78M	2BL	V 15000-040	1.600	VKSR	OS	-	G/OG	Sat SSO 0	AVMN	Kosmodrom6-15	-
1996-011	2450135.02	1996 Feb 21 1234:05	Soyuz-U	-	V 15000-651	7.230	VKSR	OS	-	G	Sat LSS 0	KIAM	-	-
1996-016	2450157.24	1996 Mar 14 1740:00	Soyuz-U-PVB	-	77044 -764	6.600	VKSR	OS	-	G	Sat LEO 0	NK9701-40	-	-
1996-028	2450208.79	1996 May 5 0704:18	Soyuz-U	-	Kh15000-648	9.550	VKSR	OS	-	G	Sat LSS 0	NK9807-46	KIAM	-
1996-F02	2450217.87	1996 May 14 0855:00	Soyuz-U	-	78051 -368	6.300	VKSR	OF	FF	G	Sat LEO 0	NK96-10-32	-	Fairing failed
1996-F04	2450255.28	1996 Jun 20 1844:59	Soyuz-U-PVB	-	77044 -843	5.684	VKSR	OF	FF	G	Sat LEO 0	NK96-12	-	Fairing failed
1996-043	2450296.33	1996 Jul 31 2000:06	Soyuz-U	-	Kh15000-049	9.533	VKSR	OS	-	G	Sat LSS 0	NK9807-46	KIAM	-
1996-045	2450310.43	1996 Aug 14 2220:59	Molniya 8K78M	ML	77031 -675	1.998	VKSR	OS	-	G	Sat MOL OO 1	NK9701-40	-	-
1996-047	2450313.05	1996 Aug 17 1318:03	Soyuz-U	-	Kh15000-077	7.230	VKSR	OS	-	G	Sat LSS 0	MIR.323	KIAM	-
1996-050	2450324.72	1996 Aug 29 0522:00	Molniya 8K78M	2BL	76047 -680	1.731	VKSR	OS	-	G	Sat HEO OO 1	AVMN	AVMN	-
1996-060	2450380.98	1996 Oct 24 1137:00	Molniya 8K78M	2BL	78012 -645	2.078	VKSR	OS	-	G	Sat MOL OO 1	NK9701-40	-	-
1996-066	2450407.47	1996 Nov 19 2320:38	Soyuz-U	-	Kh15000-639	9.390	VKSR	OS	-	G	Sat LSS 0	NK9807-46	KIAM	-
1996-073	2450442.08	1996 Dec 24 1350:00	Soyuz-U	-	V 15000-050	6.260	VKSR	OS	-	G	Sat LEO 0	NK96-26-34	NK9909-68	-
1997-003	2450490.09	1997 Feb 10 1409:30	Soyuz-U	-	Kh15000-650	7.230	VKSR	OS	-	G	Sat LSS 0	AVMN	-	-
1997-014	2450545.17	1997 Apr 6 1604:05	Soyuz-U	-	Kh15000-652	9.586	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1997-015	2450547.87	1997 Apr 9 0858:44	Molniya 8K78M	2BL	76032 -647	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9708-30	NK9715-48	-
1997-022	2450582.52	1997 May 14 0033:57	Molniya 8K78M	2BL	77031 -673	1.578	VKSR	OS	-	G	Sat MOL OO 1	NK9710-34	-	-
1997-024	2450584.01	1997 May 15 1210:00	Soyuz-U	-	77031 -168	7.600	VKSR	OS	-	G	Sat LEO 0	NK9710-35	-	-
1997-033	2450634.67	1997 Jul 5 0411:54	Soyuz-U	-	S 15000-653	9.575	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1997-038	2450666.15	1997 Aug 5 1535:53	Soyuz-U	-	S 15000-655	7.230	VKSR	OS	-	G	Sat LSS 0	AVMN	-	-
1997-054	2450716.40	1997 Sep 24 2130:59	Molniya 8K78M	ML	78051 -678	1.998	VKSR	OS	-	G	Sat MOL OO 1	AVMN	-	-
1997-058	2450727.13	1997 Oct 5 1508:57	Soyuz-U	-	S 15000-064	9.772	VKSR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1997-060	2450731.25	1997 Oct 9 1759:59	Soyuz-U	-	S 15000-057	6.354	VKSR	OS	-	G	Sat LEO 0	NK9721-34	NK9911-08	-
1997-072	2450770.97	1997 Nov 18 1114:59	Soyuz-U	-	S 15000-054	6.300	VKSR	OS	-	G	Sat LEO 0	Wire	-	-
1997-080	2450798.15	1997 Dec 15 1540:00	Soyuz-U-PVB	-	76024 -763	6.600	RVSNR	OS	-	G	Sat LEO 0	TLE	-	-
1997-081	2450802.86	1997 Dec 20 0845:02	Soyuz-U	-	S 15000-654	9.532	RVSNR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1998-004	2450843.19	1998 Jan 29 1633:42	Soyuz-U-PVB	?	S 15000-657	7.230	RVSNR	OS	-	G	Sat LSS 0	NK9902-45	-	-
1998-009	2450861.94	1998 Feb 17 1035:00	Soyuz-U-PVB	?	A 15000-046	6.300	RVSNR	OS	-	G	Sat LEO 0	NK9902-45	-	-
1998-015	2450887.45	1998 Mar 14 2245:55	Soyuz-U-PVB	?	S 15000-656	9.384	RVSNR	OS	-	G	Sat LSS 0	NK9807-46	AVMN	-
1998-027	2450940.87	1998 May 7 0853:22	Molniya 8K78M	ML	78051 -676	1.578	RVSNR	OS	-	G	Sat MOL OO 1	NK9811-14	NK9902-45	-
1998-031	2450948.43	1998 May 14 2212:59	Soyuz-U-PVB	?	M 15000-661	9.612	RVSNR	OS	-	G	Sat LSS 0	NK9811-03	-	-
1998-038	2450989.27	1998 Jun 24 1829:58	Soyuz-U-PVB	?	Kh15000-043	6.600	RVSNR	OS	-	G	Sat LEO 0	NK9814-10	NK9902-45	-
1998-039	2450990.08	1998 Jun 25 1400:00	Soyuz-U-PVB	?	A 15000-499	7.000	RVSNR	OS	-	G	Sat LEO 0	NK9814-10	NK9902-45	-
1998-040	2450995.53	1998 Jul 1 0048:01	Molniya 8K78M	ML	77017 -682	2.079	RVSNR	OS	-	G	Sat MOL OO 2	NK9815-26	-	-
1998-047	2451038.90	1998 Aug 13 0943:11	Soyuz-U-PVB	?	M 15000-658	7.000	RVSNR	OS	-	G	Sat LSS 0	NK9902-45	-	-
1998-054	2451085.49	1998 Sep 28 2341:27	Molniya 8K78M	ML	Kh15000-030	1.999	RVSNR	OS	-	G	Sat MOL OO 2	NK9821-10	-	-
1998-062	2451111.68	1998 Oct 25 0414:57	Soyuz-U-PVB	?	M 15000-660	9.806	RVSNR	OS	-	G	Sat LSS 0	NK9823-01	-	-
1999-004	2451218.66	1999 Feb 9 0353:59	Soyuz-U-PVB	Ikar	S 15000-058	1.800	STSM	OS	-	CO	Sat LEO OD	NK9903-32	-	-
1999-007	2451229.68	1999 Feb 20 0418:01	Soyuz-U	-	M 15000-662	7.120	RVSNR	OS	-	G	Sat LSS 0	NK9904-03	-	-
1999-012	2451252.63	1999 Mar 15 0306:00	Soyuz-U-PVB	Ikar	S 15000-059	1.800	STSM	OS	-	CO	Sat LEO OD	NK9905-21	-	-
1999-015	2451270.98	1999 Apr 2 1128:43	Soyuz-U-PVB	-	M 15000-663	9.621	RVSNR	OS	-	G	Sat LSS 0	NK9905-01	-	-
1999-019	2451283.53	1999 Apr 15 0046:00	Soyuz-U-PVB	Ikar	S 15000-060	1.800	STSM	OS	-	CO	Sat LEO OD	NK9906-12	-	-
1999-036	2451367.86	1999 Jul 8 0845:06	Molniya 8K78M	ML	78051 -677	2.079	RVSNR	OS	-	G	Sat MOL OO 1	NK9909-32	-	-
1999-038	2451376.19	1999 Jul 16 1637:33	Soyuz-U-PVB	-	M 15000-667	9.570	RVSNR	OS	-	G	Sat LSS 0	NK9909-05	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-044	2451409.25	1999 Aug 18 1800:01	Soyuz-U-PVB	-	77017 -785	6.635	RVSNR	OS	-	G	Sat LEO O	NK9910-32	-	-
1999-048	2451431.25	1999 Sep 9 1800:00	Soyuz-U-PVB	-	M 15000-082	7.220	RVSNR	OS	-	G	Sat LEO O	NK9911-08	-	-
1999-049	2451444.11	1999 Sep 22 1433:00	Soyuz-U-PVB	Ikar	S 15000-061	1.800	STSM	OS	-	CO	Sat LEO OD	NK9911-15	-	-
1999-054	2451449.96	1999 Sep 28 1100:05	Soyuz-U-PVB	-	M 15000-045	5.920	RVSNR	OS	-	G	Sat LEO O	NK9911-24	-	-
1999-058	2451470.06	1999 Oct 18 1332:00	Soyuz-U-PVB	Ikar	M 15000-062	1.800	STSM	OS	-	CO	Sat LEO OD	NK9912-10	-	-
1999-062	2451505.18	1999 Nov 22 1620:00	Soyuz-U-PVB	Ikar	M 15000-063	1.800	STSM	OS	-	CO	Sat LEO OD	NK0003-17	-	-
1999-073	2451540.30	1999 Dec 27 1912:44	Molniya 8K78M	2BL	77017 -681	1.578	RVSNR	OS	-	G	Sat MOL OO 1	NK0002-46	AVMN	-
2000-005	2451575.78	2000 Feb 1 0647:23	Soyuz-U-PVB	-	A 15000-669	9.196	RAKA	OS	-	G	Sat LSS O	NK0004-14	-	-
2000-009	2451583.47	2000 Feb 8 2320:00	Soyuz-U-PVB	Fregat	A 15000-079/1001	0.966	STSM	OS	-	CO/G	Sat LEO R	NK0004-24	-	-
2000-015	2451624.27	2000 Mar 20 1828:30	Soyuz-U-PVB	Fregat	A 15000-068/1002	3.382	STSM	OS	-	CO/G	Sat HEO O	NK0005-27	-	-
2000-018	2451638.71	2000 Apr 4 0501:29	Soyuz-U-PVB	-	A 15000-665	7.120	RAKA	OS	-	G	Sat LSS O	NK0006-08	-	-
2000-021	2451660.34	2000 Apr 25 2008:02	Soyuz-U-PVB	-	A 15000-664	9.421	RAKA	OS	-	G	Sat LSS O	NK0006-16	-	-
2000-023	2451668.06	2000 May 3 1325:00	Soyuz-U-PVB	-	A 15000-649	7.000	RVSNR	OS	-	G	Sat LEO O	NK0007-32	-	-
2000-041	2451742.03	2000 Jul 16 1239:34	Soyuz-U-PVB	Fregat	A 15000-069/1003	2.372	STSM	OS	-	CO/G	Sat HEO D	NK0009-35	-	-
2000-044	2451763.27	2000 Aug 6 1826:42	Soyuz-U-PVB	-	K 15000-668	9.396	RAKA	OS	-	G	Sat ISS O	NK0010-17	-	-
2000-045	2451765.97	2000 Aug 9 1113:35	Soyuz-U-PVB	Fregat	A 15000-070/1004	2.372	STSM	OS	-	CO/G	Sat HEO D	NK0010-02	-	-
2000-058	2451816.90	2000 Sep 29 0930:15	Soyuz-U-PVB	-	76023 -462 075	6.300	RVSNR	OS	-	G	Sat LEO O	NK0011-46	-	-
2000-064	2451834.39	2000 Oct 16 2127:06	Soyuz-U-PVB	-	K 15000-085	6.860	RAKA	OS	-	G	Sat LSS O	NK0012-34	-	-
2000-070	2451848.83	2000 Oct 31 0752:47	Soyuz-U-PVB	-	A 15000-666	7.120	RAKA	OS	-	G	Sat ISS O	NK0012-22	-	-
2000-073	2451864.56	2000 Nov 16 0132:36	Soyuz-U-PVB	-	K 15000-671	9.660	RAKA	OS	-	G	Sat ISS O	NK0101-02	-	-
2001-003	2451933.69	2001 Jan 24 0428:42	Soyuz-U-PVB	-	K 15000-673	7.300	RAKA	OS	-	G	Sat LSS O	NK0103-25	-	-
2001-008	2451966.84	2001 Feb 26 0809:35	Soyuz-U-PVB	-	K 15000-670	9.403	RAKA	OS	-	G	Sat ISS O	NK0104-29	-	-
2001-017	2452027.82	2001 Apr 28 0737:20	Soyuz-U-PVB	-	K 15000-674	7.120	RAKA	OS	-	G	Sat ISS O	NK0106-30	-	-
2001-021	2452050.44	2001 May 20 2232:40	Soyuz-FG	-	K 15000-001	9.778	RAKA	OS	-	G	Sat ISS O	NK0107-09	-	-
2001-022	2452059.25	2001 May 29 1755:00	Soyuz-U-PVB	-	77023 -841 076	6.600	KVR	OS	-	G	Sat LEO O	NK0107-26	-	-
2001-030	2452110.51	2001 Jul 20 0017:00	Molniya 8K78M	ML	77045 -686 043	2.108	KVR	OS	-	G	Sat MOL OO 1	NK0109-38	-	-
2001-036	2452142.89	2001 Aug 21 0923:54	Soyuz-U-PVB	-	M 15000-065	9.830	RAKA	OS	-	G	Sat ISS O	NK0110-18	-	-
2001-041	2452167.48	2001 Sep 14 2334:55	Soyuz-U-PVB	-	F 15000-677	7.504	RAKA	OS	-	G	Sat LSS O	NK0111-06	-	-
2001-048	2452203.87	2001 Oct 21 0859:35	Soyuz-U-PVB	-	F 15000-672	7.120	RAKA	OS	-	G	Sat ISS O	NK0112-03	-	-
2001-050	2452207.98	2001 Oct 25 1134:13	Molniya 8K78M	ML	77013 -687 044	2.108	KVR	OS	-	G	Sat MOL OO 1	NK0112-45	-	-
2001-051	2452240.27	2001 Nov 26 1824:12	Soyuz-FG	-	F 15000-002	9.826	RAKA	OS	-	G	Sat ISS O	NK0201-07	rosaviakosmos.ru	-
2002-008	2452331.23	2002 Feb 25 1726:21	Soyuz-U-PVB	-	77082 -842 083	6.600	KVR	OS	-	G	Sat LEO O	NK0204-41	-	-
2002-013	2452355.34	2002 Mar 21 2013:39	Soyuz-U-PVB	-	F 15000-678	9.657	RAKA	OS	-	G	Sat ISS O	rosaviakosmos.ru	-	-
2002-017	2452366.42	2002 Apr 1 2206:45	Molniya 8K78M	2BL	78054 -688 045	2.228	KVR	OS	-	G	Sat MOL OO 1	NK0206-34	-	-
2002-020	2452389.77	2002 Apr 25 0626:35	Soyuz-U-PVB	-	F 15000-675	7.120	RAKA	OS	-	G	Sat ISS O	www.energia.ru	-	-
2002-033	2452451.73	2002 Jun 26 0536:30	Soyuz-U-PVB	-	E 15000-679	9.870	RAKA	OS	-	G	Sat ISS O	www.energia.ru	-	-
2002-045	2452543.21	2002 Sep 25 1658:24	Soyuz-FG	-	E 15000-003	9.778	RAKA	OS	-	G	Sat ISS O	www.energia.ru	NK0211-11	-
2002-F02	2452563.26	2002 Oct 15 1820:00	Soyuz-U-PVB	-	A 15000-066	7.235	RAKA	OF	S1P	G	Sat LEO O	NK0212-34	-	Blok D engine
2002-050	2452577.63	2002 Oct 30 0311:11	Soyuz-FG	-	E 15000-004	7.220	RAKA	OS	-	G	Sat ISS O	NK0301-07	-	-
2002-059	2452633.01	2002 Dec 24 1220:13	Molniya 8K78M	2BL	77045 -685 042	2.228	KVR	OS	-	G	Sat MOL OO 1	NK0302-38	www.tsenki.com	-
2003-006	2452673.04	2003 Feb 2 1259:40	Soyuz-U-PVB	-	E 15000-680	9.438	RAKA	OS	-	G	Sat ISS O	www.energia.ru	-	-
2003-011	2452731.58	2003 Apr 2 0153:01	Molniya 8K78M	2BL	78029 -684 041	1.989	KVR	OS	-	G	Sat MOL OO 1	NK0306-30	-	-
2003-016	2452755.66	2003 Apr 26 0353:52	Soyuz-FG	-	E 15000-006	7.220	RAKA	OS	-	G	Sat ISS O	NK0306-02	-	-
2003-022	2452793.24	2003 Jun 2 1745:26	Soyuz-FG	Fregat	E 15000-005/1005	1.186	STSM	DS	-	CO/G	Sat EEO SE	Wire	-	-
2003-025	2452798.94	2003 Jun 8 1034:19	Soyuz-U-PVB	-	D 15000-681	9.575	RAKA	OS	-	G	Sat ISS O	NK0309-05	www.tsenki.com	-
2003-029	2452810.33	2003 Jun 19 2000:35	Molniya 8K78M	2BL	77082 -689 046	2.108	KVR	OS	-	G	Sat MOL OO 1	NK0308-37	-	-
2003-035	2452864.10	2003 Aug 12 1420:00	Soyuz-U-PVB	-	77082 -575 081	7.700	KVR	OS	-	G	Sat LEO O	NK0310-24	-	-
2003-039	2452880.57	2003 Aug 29 0147:59	Soyuz-U-PVB	-	D 15000-682	9.796	RAKA	OS	-	G	Sat ISS O	NK0310-08	-	-
2003-047	2452930.73	2003 Oct 18 0538:03	Soyuz-FG	-	D 15000-007	7.220	RAKA	OS	-	G	Sat ISS O	www.energia.ru	-	-
2003-059	2453001.40	2003 Dec 27 2130:00	Soyuz-FG	Fregat	D 15000-008/1006	1.350	STSM	OS	-	CO	Sat GTO SO	NK0402-23	-	-
2004-002	2453034.00	2004 Jan 29 1158:08	Soyuz-U-PVB	-	D 15000-683	9.691	RAKA	OS	-	G	Sat ISS O	NK0403-17	-	-
2004-005	2453053.80	2004 Feb 18 0705:55	Molniya 8K78M	ML	76092 -690 047	1.928	KVR	OS	-	G	Sat MOL OO 1	Wire	-	-
2004-013	2453114.64	2004 Apr 19 0319:00	Soyuz-FG	-	Zh15000-009	7.219	FKA	OS	-	G	Sat ISS O	NK0406-10	-	-
2004-019	2453151.02	2004 May 25 1234:23	Soyuz-U-PVB	-	D 15000-684	9.801	FKA	OS	-	G	Sat ISS O	NK0407-08	-	-
2004-032	2453228.71	2004 Aug 11 0503:07	Soyuz-U	-	D 15000-685	9.804	FKA	OS	-	G	Sat ISS O	NK0410-07	-	-
2004-038	2453273.20	2004 Sep 24 1650:00	Soyuz-U-PVB	-	78036 -844 087	6.635	KVR	OS	-	G	Sat LEO O	NK0411-40	-	-
2004-040	2453292.63	2004 Oct 14 0306:26	Soyuz-FG	-	Zh15000-012	7.270	FKA	OS	-	G	Sat ISS O	NK0412-02	-	-
2004-U01	2453318.27	2004 Nov 8 1829:58	Soyuz-2-1A	-	F 15000-001	8.650	KVR	OS	-	G	Sat LEO S	NK0501-25	-	-
2004-051	2453363.43	2004 Dec 23 2219:34	Soyuz-U-PVB	-	Zh15000-092	9.811	FKA	OS	-	G	Sat ISS O	NK0502-36	-	-
2005-007	2453430.30	2005 Feb 28 1909:18	Soyuz-U-PVB	-	Zh15000-093	9.653	FKA	OS	-	G	Sat ISS O	NK0504-27	-	-
2005-013	2453475.53	2005 Apr 15 0046:25	Soyuz-FG	-	Zh15000-014	7.270	FKA	OS	-	G	Sat ISS O	NK0506-01	-	-
2005-020	2453522.00	2005 May 31 1200:00	Soyuz-U-PVB	-	Zh15000-091	7.235	FKA	OS	-	G	Sat LEO O	Wire	-	-
2005-021	2453538.46	2005 Jun 16 2309:34	Soyuz-U-PVB	-	Zh15000-094	9.643	FKA	OS	-	G	Sat ISS O	NK0508-16	-	-
2005-F01	2453542.53	2005 Jun 21 0048:37	Molniya 8K78M	ML	77046 -694 051	1.780	KVR	OF	S2P	G	Sat MOL OO 1	NK0508-01	-	Fuel depleted
2005-030	2453596.48	2005 Aug 13 2328:27	Soyuz-FG	Fregat	Zh15000-011/1007	2.087	STSM	OS	-	CO	Sat STO SO	NK0510-11	-	-
2005-034	2453615.91	2005 Sep 2 0950:00	Soyuz-U-PVB	-	78036 -576 086	6.300	KVR	OS	-	G	Sat LEO O	NK0511-03	-	-
2005-035	2453622.05	2005 Sep 8 1307:54	Soyuz-U-PVB	-	P 15000-095	9.674	FKA	OS	-	G	Sat ISS O	NK0511-14	-	-
2005-039	2453644.66	2005 Oct 1 0354:53	Soyuz-FG	-	Zh15000-017	7.236	FKA	OS	-	G	Sat ISS O	NK0512-02	-	-
2005-045	2453683.65	2005 Nov 9 0333:34	Soyuz-FG	Fregat	Zh15000-010/1010	1.240	STSM	DS	-	CO/G	Sat EEO SE	NK0601-01	-	-
2005-047	2453726.28	2005 Dec 21 1838:20	Soyuz-U-PVB	-	F 15000-080	9.776	FKA	OS	-	G	Sat ISS O	NK0602-13	-	-
2005-051	2453732.72	2005 Dec 28 0519:08	Soyuz-FG	Fregat	P 15000-015/1009	0.600	STSM	OS	-	CO/G	Sat MEO SO	NK0602-36	-	-
2006-009	2453824.60	2006 Mar 30 0230:20	Soyuz-FG	-	P 15000-018	7.236	FKA	OS	-	G	Sat ISS O	NK0605-01	-	-
2006-013	2453850.17	2006 Apr 24 1603:25	Soyuz-U-PVB	-	P 15000-100	9.856	FKA	OS	-	G	Sat ISS O	NK0606-17	-	-
2006-017	2453859.23	2006 May 3 1738:01	Soyuz-U-PVB	-	78031 -800 090	6.900	KVR	OS	-	G	Sat LEO O	NK0607-35	-	-
2006-021	2453901.83	2006 Jun 15 0800:00	Soyuz-U-PVB	-	P 15000-096	6.570	FKA	OS	-	G	Sat LEO O	NK0608-01	-	-
2006-025	2453911.13	2006 Jun 24 1508:18	Soyuz-U-PVB	-	Zh15000-101	9.868	FKA	OS	-	G	Sat ISS O	NK0608-25	-	-
2006-030	2453937.68	2006 Jul 21 0420:03	Molniya 8K78M	2BL	78036 -691 048	2.228	KVR	OS	-	G	Sat MOL OO 1	NK0609-41	-	-
2006-039	2453993.07	2006 Sep 14 1341:00	Soyuz-U-PVB	-	78041 -490 088	7.600	KVR	OS	-	G	Sat LEO O	NK0611-37	-	-
2006-040	2453996.67	2006 Sep 18 0408:42	Soyuz-FG	-	Ts15000-023	7.236	FKA	OS	-	G	Sat ISS O	NK0611-16	-	-
2006-044	2454028.19	2006 Oct 19 1628:13	Soyuz-2-1A	Fregat	Zh15000-003/1011	4.086	STSM	OS	-	CO/G	Sat SSO D	NK0612-01	-	-
2006-045	2454032.07	2006 Oct 23 1340:36	Soyuz-U-PVB	-	Ts15000-102	9.684	FKA	OS	-	G	Sat ISS O	NK0612-25	-	-
2006-061	2454093.86	2006 Dec 24 0834:44	Soyuz-2-1A	Fregat	77033 -135 002/1012	2.000	KVR	OS	-	G	Sat MOL SO	Wire	-	-
2006-063	2454097.10	2006 Dec 27 1423:38	Soyuz-2-1B	Fregat	P 15000-001/1013	0.605	STSM	OS	-	CO/G	Sat SSO OD	Wire	-	-
2007-002	2454118.59	2007 Jan 18 0212:13	Soyuz-U-PVB	-	Ts15000-107	9.851	FKA	OS	-	G	Sat ISS O	Wire	-	-
2007-008	2454198.23	2007 Apr 7 1731:14	Soyuz-FG	-	Ts15000-019	7.270	FKA	OS	-	G	Sat ISS O	Wire	-	-
2007-017	2454232.64	2007 May 12 0325:38	Soyuz-U-PVB	-	Ts15000-104	9.851	FKA	OS	-	G	Sat ISS O	NK0707-04	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-020	2454250.36	2007 May 29 2031:30	Soyuz-FG	Fregat	Ts15000-021/1016	1.800	STSM	OS	-	CO	Sat LEO OD	NK0707-23	-	-
2007-022	2454259.25	2007 Jun 7 1800:01	Soyuz-U-PVB	-	76033 -137 099	6.900	KVR	OS	-	G	Sat LEO O	Wire	-	-
2007-033	2454315.23	2007 Aug 2 1733:47	Soyuz-U-PVB	-	Ts15000-108	9.853	FKA	OS	-	G	Sat ISS O	NK0710-18	-	-
2007-040	2454357.96	2007 Sep 14 1100:00	Soyuz-U-PVB	-	Ts15000-098	7.270	FKA	OS	-	G	Sat LEO O	Wire	-	-
2007-045	2454384.06	2007 Oct 10 1322:39	Soyuz-FG	-	Ts15000-020	7.270	FKA	OS	-	G	Sat ISS O	NK0712-01	-	-
2007-048	2454394.34	2007 Oct 20 2012:25	Soyuz-FG	Fregat	Ts15000-022/1015	1.800	STSM	OS	-	CO	Sat LEO OD	Wire	-	-
2007-049	2454396.69	2007 Oct 23 0439:17	Molniya 8K78M	2BL	77046 -692 049	2.228	KVR	OS	-	G	Sat MOL OO 1	Wire	-	-
2007-061	2454449.05	2007 Dec 14 1317:34	Soyuz-FG	Fregat	Ts15000-025/1015-2	2.300	STSM	OS	-	CO/OG	Sat SSO OD	NK0802-33	-	-
2007-064	2454457.80	2007 Dec 23 0712:41	Soyuz-U-PVB	-	Sh15000-109	9.701	FKA	OS	-	G	Sat ISS O	NK0802-12	-	-
2008-004	2454502.04	2008 Feb 5 1302:57	Soyuz-U-PVB	-	Ts15000-106	9.848	FKA	OS	-	G	Sat ISS O	NK0804-09	-	-
2008-015	2454564.97	2008 Apr 8 1116:39	Soyuz-FG	-	Sh15000-024	7.270	FKA	OS	-	G	Sat ISS O	Wire	-	-
2008-020	2454583.43	2008 Apr 26 2216:02	Soyuz-FG	Fregat	P 15000-016/1008	0.530	STSM	OS	-	CO/G	Sat MEO SO	www.esa.int	NK0806-30	-
2008-023	2454601.35	2008 May 14 2022:56	Soyuz-U-PVB	-	Sh15000-110	9.418	FKA	OS	-	G	Sat ISS O	NK0807-25	-	-
2008-037	2454674.27	2008 Jul 26 1831:36	Soyuz-2-1B	-	77057 -145 003	7.000	KVR	OS	-	G	Sat SSO O	NK0809-34	-	-
2008-043	2454720.33	2008 Sep 10 1950:02	Soyuz-U-PVB	-	Sh15000-111	9.741	FKA	OS	-	G	Sat ISS O	Wire	-	-
2008-050	2454751.79	2008 Oct 12 0701:33	Soyuz-FG	-	Sh15000-026	7.270	FKA	OS	-	G	Sat ISS O	NK0812-02	-	-
2008-058	2454785.16	2008 Nov 14 1550:00	Soyuz-U-PVB	-	77057 -146 103	6.900	KVR	OS	-	G	Sat LEO O	NK0901-37	-	-
2008-060	2454797.03	2008 Nov 26 1238:38	Soyuz-U-PVB	-	Sh15000-114	9.964	FKA	OS	-	G	Sat ISS O	NK0901-20	-	-
2008-062	2454802.71	2008 Dec 2 0459:59	Molniya 8K78M	2BL	77046 -693 050	2.228	KVR	OS	-	G	Sat MOL OO 1	NK0902-34	-	-
2009-006	2454872.74	2009 Feb 10 0549:46	Soyuz-U-PVB	-	Yu15000-115	9.495	FKA	OS	-	G	Sat ISS O	NK0904-06	-	-
2009-015	2454916.99	2009 Mar 26 1149:18	Soyuz-FG	-	Yu15000-027	7.184	FKA	OS	-	G	Sat ISS O	NK0904-14	-	-
2009-022	2454951.21	2009 Apr 29 1658:00	Soyuz-U-PVB	-	78075 -152 105	6.635	KVR	OS	-	G	Sat LEO O	NK0906-38	-	-
2009-024	2454959.28	2009 May 7 1837:09	Soyuz-U-PVB	-	Sh15000-113	9.629	FKA	OS	-	G	Sat ISS O	NK0907-03	-	-
2009-029	2454973.41	2009 May 21 2153:33	Soyuz-2-1A	Fregat	77067 -162 005	2.000	KVR	OS75	S4P2	G	Sat MOL SO	NK0907-46	-	Early shutdown
2009-030	2454978.94	2009 May 27 1034:53	Soyuz-FG	-	Yu15000-030	7.194	FKA	OS	-	G	Sat ISS O	NK0907-08	-	-
2009-040	2455036.96	2009 Jul 24 1056:56	Soyuz-U-PVB	-	Yu15000-112	9.754	FKA	OS	-	G	Sat ISS O	Wire	-	-
2009-049	2455092.16	2009 Sep 17 1555:07	Soyuz-2-1B	Fregat	Ts15000-002	3.179	FKA	OS	-	G	Sat SSO OO	NK0911-34	-	-
2009-053	2455104.80	2009 Sep 30 0714:45	Soyuz-FG	-	B 15000-029	7.197	FKA	OS	-	G	Sat ISS O	NK0911-22	-	-
2009-056	2455119.55	2009 Oct 15 0114:37	Soyuz-U-PVB	-	Yu15000-120	9.614	FKA	OS	-	G	Sat ISS O	Wire	-	-
2009-060	2455146.10	2009 Nov 10 1422:04	Soyuz-U-PVB	-	B 15000-121	7.125	FKA	OS	-	G	Sat ISS O	NK1001-03	-	-
2009-063	2455155.95	2009 Nov 20 1044:00	Soyuz-U-PVB	-	76043 -811 097	6.000	KVR	OS	-	G	Sat LEO O	NK1001-23	-	-
2009-074	2455186.41	2009 Dec 20 2152:00	Soyuz-FG	-	B 15000-031	7.200	FKA	OS	-	G	Sat ISS O	Wire	-	-
2010-003	2455230.66	2010 Feb 3 0345:29	Soyuz-U-PVB	-	B 15000-117	9.973	FKA	OS	-	G	Sat ISS O	NK1004-1	-	-
2010-011	2455288.67	2010 Apr 2 0404:33	Soyuz-FG	-	Yu15000-028	7.193	FKA	OS	-	G	Sat ISS O	NK1006-1	-	-
2010-014	2455303.12	2010 Apr 16 1500:00	Soyuz-U-PVB	-	76029 -169 124	6.900	KVR	OS	-	G	Sat LEO O	NK1006-45	-	-
2010-018	2455315.22	2010 Apr 28 1715:09	Soyuz-U-PVB	-	B 15000-118	9.683	FKA	OS	-	G	Sat ISS O	NK1006-21	-	-
2010-029	2455363.40	2010 Jun 15 2135:19	Soyuz-FG	-	B 15000-032	7.200	FKA	OS	-	G	Sat ISS O	Wire	-	-
2010-033	2455378.15	2010 Jun 30 1535:14	Soyuz-U-PVB	-	B 15000-119	9.883	FKA	OS	-	G	Sat ISS O	Wire	-	-
2010-044	2455449.93	2010 Sep 10 1022:57	Soyuz-U-PVB	-	B 15000-122	9.412	FKA	OS	-	G	Sat ISS O	NK1011-06	-	-
2010-049	2455470.21	2010 Sep 30 1701:15	Molniya 8K78M	2BL	78041 -699 052	2.728	KVR	OS	-	G	Sat MOL OO 1	NK1011-37	-	-
2010-052	2455477.47	2010 Oct 7 2310:55	Soyuz-FG	-	B 15000-035	7.200	FKA	OS	-	G	Sat ISS O	NK1012-01	-	-
2010-054	2455489.22	2010 Oct 19 1710:59	Soyuz-2-1A	Fregat	B 15000-009/ST22	4.290	STSM	OS	-	CO	Sat LEO SD	NK1012-30	-	-
2010-055	2455497.13	2010 Oct 27 1511:50	Soyuz-U-PVB	-	I 15000-123	9.881	FKA	OS	-	G	Sat ISS O	Wire	-	-
2010-058	2455502.54	2010 Nov 2 0058:39	Soyuz-2-1A	Fregat	760-12 -167 006	2.000	KVR	OS	-	G	Sat MOL SO	NK1101-20	-	-
2010-067	2455546.30	2010 Dec 15 1909:25	Soyuz-FG	-	B 15000-034	7.200	FKA	OS	-	G	Sat ISS O	NK1102-12	-	-
2011-004	2455589.56	2011 Jan 28 0131:39	Soyuz-U-PVB	-	I 15000-126	10.086	FKA	OS	-	G	Sat ISS O	NK1103-14	-	-
2011-009	2455618.63	2011 Feb 26 0307:15	Soyuz-2-1B	Fregat	770-24 -208 017	0.935	KVR	OS	-	G	Sat MEO SO	NK1104-31	-	-
2011-012	2455656.43	2011 Apr 4 2218:20	Soyuz-FG	-	I 15000-036	7.219	FKA	OS	-	G	Sat ISS O	NK1106-20	-	-
2011-017	2455679.05	2011 Apr 27 1305:21	Soyuz-U-PVB	-	Yu15000-116	9.934	FKA	OS	-	G	Sat ISS O	NK1106-33	-	-
2011-018	2455686.24	2011 May 4 1741:33	Soyuz-2-1A	Fregat	760-12 -230 015	2.000	KVR	OS	-	G	Sat MOL SO	NK1107-28	-	-
2011-023	2455720.34	2011 Jun 7 2012:45	Soyuz-FG	-	I 15000-037	7.102	FKA	OS	-	G	Sat ISS O	NK1108-19	-	-
2011-027	2455734.11	2011 Jun 21 1438:15	Soyuz-U-PVB	-	I 15000-128	9.958	FKA	OS	-	G	Sat ISS O	NK1108-28	-	-
2011-028	2455740.17	2011 Jun 27 1600:00	Soyuz-U-PVB	-	760-12 -222 125	6.900	KVR	OS	-	G	Sat LEO O	NK1108-47	-	-
2011-033	2455755.60	2011 Jul 13 0227:04	Soyuz-2-1A	Fregat	Yu15000-008/ST23	4.290	STSM	OS	-	CO	Sat SSO SD	NK1109-29	-	-
2011-F03	2455798.04	2011 Aug 24 1300:08	Soyuz-U-PVB	-	L 15000-132	7.289	FKA	OF	S3P	G	Sat ISS O	NK1110-09	-	Early shutdown
2011-055	2455837.34	2011 Oct 2 2015:14	Soyuz-2-1B	Fregat	770-24 -209 018/1045	1.450	KVR	OS	-	G	Sat MEO SO	Wire	-	-
2011-060	2455855.94	2011 Oct 21 1030:26	Soyuz-ST-B	Fregat	B 15000-001/1030	1.400	AE	OS	-	CO/G	Sat MEO SO	www.esa.int	-	-
2011-062	2455864.92	2011 Oct 30 1011:12	Soyuz-U-PVB	-	I 15000-129	9.714	FKA	OS	-	G	Sat ISS O	NK1112-08	-	-
2011-067	2455879.68	2011 Nov 14 0414:03	Soyuz-FG	-	I 15000-038	7.220	FKA	OS	-	G	Sat ISS O	Wire	-	-
2011-071	2455893.85	2011 Nov 28 0825:58	Soyuz-2-1B	Fregat	780-31 -219 019/1046	1.450	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	-	-
2011-076	2455912.59	2011 Dec 17 0203:48	Soyuz-ST-A	Fregat	Sh15000-002/1024	2.160	AE	OS	-	CO/G	Sat SSO D	nasaspaceflight.com	NK1202-29	-
2011-078	2455917.05	2011 Dec 21 1316:15	Soyuz-FG	-	L 15000-039	7.205	FKA	OS	-	G	Sat ISS O	NK1202-02	-	-
2011-F04	2455919.01	2011 Dec 23 1208:10	Soyuz-2-1B	Fregat	780-75 -164 006/1042	2.000	VVKO	OF	S3P	G	Sat MOL SO	nasaspaceflight.com	NK1202-39	Blok I failed
2011-080	2455924.21	2011 Dec 28 1709:02	Soyuz-2-1A	Fregat	B 15000-007/1027	4.290	STSM	OS	-	CO	Sat LEO D	nasaspaceflight.com	NK1202-43	-
2012-004	2455952.46	2012 Jan 25 2306:40	Soyuz-U-PVB	-	I 15000-127	9.959	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2012-015	2456038.04	2012 Apr 20 1250:24	Soyuz-U-PVB	-	L 15000-135	9.646	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1206-10	-
2012-022	2456062.63	2012 May 15 0301:23	Soyuz-FG	-	L 15000-041	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2012-024	2456065.09	2012 May 17 1405:00	Soyuz-U-PVB	-	780-31 -229 131	6.635	VVKO	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2012-037	2456123.61	2012 Jul 15 0240:03	Soyuz-FG	-	L 15000-042	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2012-039	2456130.78	2012 Jul 22 0641:39	Soyuz-FG	Fregat	B 15000-033	1.122	FKA	OS	-	G	Sat SSO OD	nasaspaceflight.com	-	-
2012-042	2456141.32	2012 Aug 1 1935:13	Soyuz-U-PVB	-	L 15000-134	9.937	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1210-20	-
2012-049	2456188.19	2012 Sep 17 1628:40	Soyuz-2-1A	Fregat	L 15000-012/1037	4.086	STSM	OS	-	G	Sat SSO D	nasaspaceflight.com	-	-
2012-055	2456213.26	2012 Oct 12 1815:00	Soyuz-ST-B	Fregat	B 15000-002/1031	1.400	AE	OS	-	CO/G	Sat MEO SO	www.esa.int	-	-
2012-058	2456223.95	2012 Oct 23 1051:11	Soyuz-FG	-	L 15000-044	7.218	FKA	OS	-	G	Sat ISS O	nasaspaceflight.com	NK1212-2	-
2012-060	2456231.82	2012 Oct 31 0741:18	Soyuz-U-PVB	-	L 15000-136	9.687	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2012-063	2456245.99	2012 Nov 14 1142:46	Soyuz-2-1A	Fregat	770-46 -267 016/1034	2.100	VVKO	OS	-	G	Sat MOL SO	NK1301-26	nasaspaceflight.com	-
2012-068	2456263.59	2012 Dec 2 0202:50	Soyuz-ST-A	Fregat	Sh15000-001/1020	0.940	AE	OS	-	CO/G	Sat SSO D	nasaspaceflight.com	-	-
2012-074	2456281.01	2012 Dec 19 1212:35	Soyuz-FG	-	L 15000-040	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2013-005	2456330.17	2013 Feb 6 1604:24	Soyuz-2-1A	Fregat	I 15000-011/1029	4.290	STSM	OS	-	CO	Sat LEO SD	NK1304-23	nasaspaceflight.com	-
2013-007	2456335.11	2013 Feb 11 1441:47	Soyuz-U-PVB	-	L 15000-137	9.921	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2013-013	2456380.36	2013 Mar 28 2043:20	Soyuz-FG	-	E 15000-043	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1305-02	-
2013-015	2456401.92	2013 Apr 19 1000:00	Soyuz-2-1A	-	L 15000-014	6.314	FKA	OS	-	G/G+C	Sat LEO O	spaceflightnow.com	NK1306-28	-
2013-017	2456406.93	2013 Apr 24 1012:16	Soyuz-U-PVB	-	L 15000-138	9.656	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1306-18	-
2013-019	2456408.72	2013 Apr 26 0523:41	Soyuz-2-1B	Fregat	780-31- 220 021/1047	1.450	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	NK1306-50	-
2013-025	2456441.36	2013 May 28 2031:24	Soyuz-FG	-	E 15000-045	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1307-02	-
2013-028	2456451.28	2013 Jun 7 1837:59	Soyuz-2-1B	-	780-31- 215 007	7.000	VVKO	OS	-	G	Sat SSO O	NK1308-34	nasaspaceflight.com	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2013-030	2456469.23	2013 Jun 25 1728:48	Soyuz-2-1B	-	I 15000-013	5.691	FKA	OS	-	G	Sat SSO O	spaceflightnow.com	NK1308-38	-
2013-031	2456469.31	2013 Jun 25 1927:03	Soyuz-ST-B	Fregat	E 15000-003/1041	2.800	AE	OS	-	CO	Sat MEO O	nasaspaceflight.com	-	-
2013-039	2456501.36	2013 Jul 27 2045:08	Soyuz-U-PVB	-	L 15000-130	9.649	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1309-13	-
2013-054	2456561.37	2013 Sep 25 2058:50	Soyuz-FG	-	E 15000-046	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1311-08	-
2013-061	2456603.68	2013 Nov 7 0414:15	Soyuz-FG	-	T 15000-048	7.101	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1401-02	-
2013-069	2456622.37	2013 Nov 25 2053:06	Soyuz-U-PVB	-	E 15000-133	9.681	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1401-24	-
2013-074	2456645.88	2013 Dec 19 0912:18	Soyuz-ST-B	Fregat	E 15000-004/1040	1.934	AE	OS	-	CO/G	Sat EEO SE	nasaspaceflight.com	-	-
2013-078	2456655.02	2013 Dec 28 1230:00	Soyuz-2-1V	Volga	760-58- 002/001	0.150	VVKO	OS	-	G	Sat LEO OD	nasaspaceflight.com	NK1402-60	-
2014-005	2456694.18	2014 Feb 5 1623:33	Soyuz-U-PVB	-	E 15000-139	9.654	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1404-13	-
2014-012	2456740.45	2014 Mar 23 2254:03	Soyuz-2-1B	Fregat	780-85- 168/112-01	1.450	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	NK1405-39	-
2014-013	2456742.39	2014 Mar 25 2117:23	Soyuz-FG	-	T 15000-047	7.100	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1405-09	-
2014-016	2456751.38	2014 Apr 3 2102:26	Soyuz-ST-A	Fregat	B 15000-004/1038	2.157	AE	OS	-	CO/G	Sat SSO D	nasaspaceflight.com	NK1406-35	-
2014-018	2456757.14	2014 Apr 9 1526:27	Soyuz-U-PVB	-	T 15000-141	9.673	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1406-14	-
2014-021	2456764.18	2014 Apr 16 1620:00	Soyuz-U-PVB	-	E 15000-143	1.080	FKA	OS	-	G/OG	Sat LEO O	spaceflightnow.com	NK1406-47	-
2014-025	2456784.08	2014 May 6 1349:35	Soyuz-2-1A	-	760-58- 163 019	6.635	VVKO	OS	-	G	Sat LEO O	nasaspaceflight.com	NK1407-26	-
2014-031	2456806.33	2014 May 28 1957:41	Soyuz-FG	-	T 15000-049	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1407-06	-
2014-032	2456823.22	2014 Jun 14 1716:48	Soyuz-2-1B	Fregat	T 15000-023/112-02	1.450	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	NK1408-18	-
2014-037	2456847.17	2014 Jul 8 1558:28	Soyuz-2-1B	Fregat	L 15000-011/1025	3.513	FKA	OS	-	G/G+C	Sat SSO OD	nasaspaceflight.com	-	-
2014-038	2456849.29	2014 Jul 10 1855:56	Soyuz-ST-B	Fregat	E 15000-005/1032	2.800	AE	OS	-	CO	Sat MEO O	nasaspaceflight.com	-	-
2014-041	2456857.37	2014 Jul 18 2050:00	Soyuz-2-1A	-	T 15000-020	6.070	FKA	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2014-042	2456862.41	2014 Jul 23 2144:44	Soyuz-U-PVB	-	T 15000-140	9.612	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2014-050	2456892.02	2014 Aug 22 1227:11	Soyuz-ST-B	Fregat	E 15000-006/1039	1.466	AE	OF40	S4G2	CO/G	Sat MEO SO	nasaspaceflight.com	-	Prop lines froze, lost attitude
2014-057	2456926.35	2014 Sep 25 2025:00	Soyuz-FG	-	T 15000-050	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2014-067	2456959.80	2014 Oct 29 0709:43	Soyuz-2-1A	-	G 15000-021	9.641	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1412-19	-
2014-069	2456960.57	2014 Oct 30 0142:52	Soyuz-2-1A	Fregat	760-58- 174 013/1026	2.000	VVKO	OS	-	G	Sat MOL SO	nasaspaceflight.com	-	-
2014-074	2456985.38	2014 Nov 23 2101:13	Soyuz-FG	-	T 15000-051	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1501-04	-
2014-075	2456992.41	2014 Nov 30 2152:26	Soyuz-2-1B	Fregat	G 15000-026/1044	0.974	VVKO	OS	-	G	Sat MEO SO	zenite.nu	nasaspaceflight.com	-
2014-083	2457010.28	2014 Dec 18 1837:00	Soyuz-ST-B	Fregat	T 15000-007/133-01	2.800	AE	OS	-	CO	Sat MEO O	nasaspaceflight.com	zenite.nu	-
2014-086	2457016.63	2014 Dec 25 0301:13	Soyuz-2-1B	-	780-31- 199 005	6.575	VVKO	OS	-	G	Sat LEO O	zenite.nu	nasaspaceflight.com	-
2014-087	2457018.29	2014 Dec 26 1855:50	Soyuz-2-1B	-	L 15000-009	6.392	FKA	OS	-	G	Sat SSO O	spaceflightnow.com	-	-
2015-008	2457070.96	2015 Feb 17 1100:17	Soyuz-U-PVB	-	T 15000-144	9.662	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1504-13	-
2015-009	2457080.96	2015 Feb 27 1101:36	Soyuz-2-1A	-	770-46- 243 010	3.700	VVKO	OS	-	G	Sat SSO O	zenite.nu	NK1504-38	-
2015-016	2457109.32	2015 Mar 27 1942:57	Soyuz-FG	-	G 15000-053	7.216	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1505-05	-
2015-017	2457109.41	2015 Mar 27 2146:18	Soyuz-ST-B	Fregat	T 15000-008/133-02	1.466	AE	OS	-	CO/G	Sat MEO SO	nasaspaceflight.com	zenite.nu	-
2015-024	2457140.80	2015 Apr 28 0709:50	Soyuz-2-1A	-	G 15000-022	9.647	FKA	OF30	S3S	G	Sat ISS O	spaceflightnow.com	-	Resonance at separation
2015-027	2457179.14	2015 Jun 5 1523:54	Soyuz-2-1A	-	780-72- 171 024	6.635	VVKO	OS	-	G	Sat LEO O	NK1508-22	-	-
2015-029	2457197.20	2015 Jun 23 1644:00	Soyuz-2-1B	-	760-58- 156 012	7.000	VVKO	OS	-	G	Sat SSO O	NK1508-33	-	-
2015-031	2457206.71	2015 Jul 3 0455:45	Soyuz-U-PVB	-	T 15000-142	9.661	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1509-16	-
2015-035	2457226.38	2015 Jul 22 2102:45	Soyuz-FG	-	G 15000-052	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1509-01	-
2015-043	2457267.69	2015 Sep 2 0437:43	Soyuz-FG	-	G 15000-054	7.212	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1511-01	-
2015-045	2457276.59	2015 Sep 11 0208:10	Soyuz-ST-B	Fregat	T 15000-009/133-03	1.466	AE	OS	-	CO/G	Sat MEO SO	nasaspaceflight.com	NK1511-25	-
2015-055	2457297.20	2015 Oct 1 1649:40	Soyuz-U-PVB	-	G 15000-146	9.622	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1512-01	-
2015-066	2457343.77	2015 Nov 17 0633:41	Soyuz-2-1B	Fregat	760-12- 227 015/1033	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	NK1601-39	-
2015-071	2457362.09	2015 Dec 5 1408:33	Soyuz-2-1V	Volga	780-31- 001 001/002	1.407	VVKO	OF44	S3S	G	Sat SSO OD	nasaspaceflight.com	NK1602-34	Sep failure of payload
2015-076	2457371.96	2015 Dec 15 1103:10	Soyuz-FG	-	G 15000-055	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2015-079	2457373.99	2015 Dec 17 1151:56	Soyuz-ST-B	Fregat	R 15000-010/133-04	1.466	AE	OS	-	CO/G	Sat MEO SO	nasaspaceflight.com	zenite.nu	-
2015-080	2457377.86	2015 Dec 21 0844:39	Soyuz-2-1A	-	R 15000-026	9.721	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1602-23	-
2016-008	2457425.51	2016 Feb 7 0021	Soyuz-2-1B	Fregat	G 15000-030/112-03	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2016-016	2457461.29	2016 Mar 13 1856:00	Soyuz-2-1B	-	T 15000-016	5.920	FKA	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2016-018	2457466.39	2016 Mar 18 2126:39	Soyuz-FG	-	R 15000-057	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1605-08	-
2016-020	2457471.90	2016 Mar 24 0942:00	Soyuz-2-1A	-	760-58- 161	3.700	VVKO	OS	-	G	Sat SSO O	spaceflightnow.com	-	-
2016-022	2457479.18	2016 Mar 31 1623:57	Soyuz-2-1A	-	R 15000-023	9.713	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1605-27	-
2016-025	2457504.38	2016 Apr 25 2102:13	Soyuz-ST-A	Fregat	R 15000-005/133-08	2.863	AE	OS	-	CO/G	Sat SSO SD	spaceflightnow.com	-	-
2016-026	2457506.58	2016 Apr 28 0201:21	Soyuz-2-1A	Volga	R 15000-001/006	1.160	FKA	OS	-	G	Sat SSO OD	spaceflightnow.com	NK1606-02	-
2016-030	2457532.87	2016 May 24 0848:43	Soyuz-ST-B	Fregat	R 15000-011/133-05	1.466	AE	OS	-	CO/G	Sat MEO SO	nasaspaceflight.com	-	-
2016-032	2457537.86	2016 May 29 0844:35	Soyuz-2-1B	Fregat	G 15000-027/112-04	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	NK1607-20	-
2016-044	2457576.57	2016 Jul 7 0136:40	Soyuz-FG	-	R 15000-056	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1609-01	-
2016-045	2457586.40	2016 Jul 16 2141:46	Soyuz-U-PVB	-	G 15000-147	9.681	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2016-063	2457680.84	2016 Oct 19 0805:14	Soyuz-FG	-	R 15000-059	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1612-12	-
2016-070	2457710.35	2016 Nov 17 2020:13	Soyuz-FG	-	R 15000-060	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2016-F02	2457724.12	2016 Dec 1 1451:52	Soyuz-U-PVB	-	P 15000-148	7.285	FKA	OF	S3P	G	Sat ISS O	spaceflightnow.com	-	Turbopump?
2017-006	2457781.54	2017 Jan 28 0103:34	Soyuz-ST-B	Fregat	R 15000-012/133-07	3.220	AE	OS	-	CO	Sat GTO O	spaceflightnow.com	-	-
2017-010	2457806.75	2017 Feb 22 0558:33	Soyuz-U-PVB	-	T 15000-145	7.279	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2017-020	2457863.80	2017 Apr 20 0713:43	Soyuz-FG	-	U 15000-065	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2017-026	2457892.00	2017 May 18 1154:53	Soyuz-ST-A	Fregat	R 15000-007/133-09	2.302	AE	OS	-	CO	Sat GTO SO	spaceflightnow.com	NK1707-45	-
2017-027	2457898.77	2017 May 25 0633:41	Soyuz-2-1B	Fregat	780-72- 183/111-301	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	NK1707-52	-
2017-033	2457918.89	2017 Jun 14 0920:13	Soyuz-2-1A	-	U 15000-028	9.711	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2017-037	2457928.25	2017 Jun 23 1804:33	Soyuz-2-1V	Volga	780-72- 003	0.694	VVKO	OS	-	G	Sat SSO OD	spaceflightnow.com	-	-
2017-042	2457948.78	2017 Jul 14 0636:49	Soyuz-2-1A	Fregat	T 15000-018/122-02	1.130	FKA	OS89	PA	G/G+C	Sat SSO SD	spaceflightnow.com	-	Deployment failures
2017-043	2457963.15	2017 Jul 28 1541:12	Soyuz-FG	-	R 15000-058	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2017-054	2458009.39	2017 Sep 12 2117:02	Soyuz-FG	-	U 15000-063	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1711-10	-
2017-055	2458018.50	2017 Sep 22 0002:32	Soyuz-2-1B	Fregat	U 15000-039/112-05	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2017-065	2458040.87	2017 Oct 14 0846:53	Soyuz-2-1A	-	U 15000-029	9.977	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	NK1712-15	-
2017-F05	2458085.74	2017 Nov 28 0541:46	Soyuz-2-1B	Fregat	N 15000-001/122-01	3.073	FKA	OF	S4G	G/G+C	Sat SSO SD	spaceflightnow.com	-	Software error, aimed down
2017-076	2458089.95	2017 Dec 2 1043:26	Soyuz-2-1B	-	770-69- 203	6.575	VVKO	OS	-	G	Sat LEO O	spaceflightnow.com	-	-
2017-081	2458104.81	2017 Dec 17 0721:01	Soyuz-FG	-	R 15000-061	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-014	2458150.59	2018 Feb 1 0207:18	Soyuz-2-1A	Fregat	N 15000-002/122-03	1.033	FKA	OS	-	G/G+C	Sat SSO SD	spaceflightnow.com	NK1804-32	-
2018-019	2458162.84	2018 Feb 13 0813:33	Soyuz-2-1A	-	U 15000-030	9.988	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-024	2458187.22	2018 Mar 9 1710:06	Soyuz-ST-B	Fregat	R 15000-013/133-06	2.800	AE	OS	-	CO	Sat MEO O	spaceflightnow.com	-	-
2018-026	2458199.24	2018 Mar 21 1744:23	Soyuz-FG	-	N 15000-066	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-028	2458207.24	2018 Mar 29 1738:42	Soyuz-2-1V	-	780-72- 005	0.520	VVKO	OS	-	G	Sat SSO O	spaceflightnow.com	-	-
2018-051	2458275.97	2018 Jun 6 1112:39	Soyuz-FG	-	U 15000-064	7.220	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-053	2458286.41	2018 Jun 16 2146:28	Soyuz-2-1B	Fregat	L 15000-020/112-06	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2018-058	2458309.41	2018 Jul 9 2151:34	Soyuz-2-1A	-	N 15000-033	10.000	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-F01	2458402.86	2018 Oct 11 0840:15	Soyuz-FG	-	U 15000-062	7.218	FKA	OF	S1S	G	Sat ISS O	spaceflightnow.com	-	Blok D bad sep
2018-082	2458416.51	2018 Oct 25 0015:18	Soyuz-2-1B	-	780-31- 216	6.575	VVKO	OS	-	G	Sat LEO O	spaceflightnow.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-086	2458426.35	2018 Nov 3 2017:53	Soyuz-2-1B	Fregat	R 15000-036/112-08	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2018-087	2458429.53	2018 Nov 7 0047:28	Soyuz-ST-B	Fregat	U 15000-014/133-14	4.086	AE	OS	-	CO/G	Sat SSO SD	spaceflightnow.com	-	-
2018-091	2458439.26	2018 Nov 16 1814:08	Soyuz-FG	-	N 15000-068	7.430	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-098	2458455.98	2018 Dec 3 1131:52	Soyuz-FG	-	N 15000-067	7.219	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2018-106	2458472.19	2018 Dec 19 1637:14	Soyuz-ST-A	Fregat	U 15000-009/133-10	3.655	AE	OS	-	CO/G	Sat SSO SD	spaceflightnow.com	-	-
2018-111	2458479.59	2018 Dec 27 0207:18	Soyuz-2-1A	Fregat	Ya15000-003/122-06	1.242	FKA	OS	-	G/G+C	Sat SSO SD	spaceflightnow.com	-	-
2019-008	2458536.20	2019 Feb 21 1647:14	Soyuz-2-1B	Fregat	E 15000-024/112-07	1.050	FKA	OS	-	G/OG	Sat SSO D	spaceflightnow.com	-	-
2019-010	2458542.40	2019 Feb 27 2137:00	Soyuz-ST-B	Fregat	U 15000-016/133-15	1.480	AE	OS	-	CO	Sat LEO SD	spaceflightnow.com	-	-
2019-013	2458557.30	2019 Mar 14 1914:09	Soyuz-FG	-	Ya15000-070	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-019	2458577.96	2019 Apr 4 1101:35	Soyuz-2-1A	-	Ya15000-036	9.997	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-020	2458578.21	2019 Apr 4 1703:37	Soyuz-ST-B	Fregat	N 15000-017/133-17	2.800	AE	OS	-	CO	Sat MEO O	spaceflightnow.com	-	-
2019-030	2458630.77	2019 May 27 0623:00	Soyuz-2-1B	Fregat	Ya15000-053/112-09	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2019-038	2458669.74	2019 Jul 5 0541:46	Soyuz-2-1B	Fregat	Ya15000-002/122-04	3.192	FKA	OS	-	G/G+C	Sat SSO SD	spaceflightnow.com	-	-
2019-039	2458675.22	2019 Jul 10 1714	Soyuz-2-1V	Volga	780-72 -004/005	0.710	VVKO	OS	-	G	Sat SSO SO	spaceflightnow.com	-	-
2019-041	2458685.19	2019 Jul 20 1628:20	Soyuz-FG	-	N 15000-069	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-046	2458694.75	2019 Jul 30 0557	Soyuz-2-1A	Fregat	780-21 -117/1036	2.000	VVKO	OS	-	G	Sat MOL SO	nasaspaceflight.com	-	-
2019-047	2458696.01	2019 Jul 31 1210:46	Soyuz-2-1A	-	N 15000-035	9.884	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-055	2458717.65	2019 Aug 22 0338:31	Soyuz-2-1A	-	Ya15000-037	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-064	2458752.08	2019 Sep 25 1357:43	Soyuz-FG	-	Ya15000-071	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-065	2458752.82	2019 Sep 26 0746	Soyuz-2-1B	Fregat	780-72 -176/111-302	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	-	-
2019-079	2458813.24	2019 Nov 25 1752	Soyuz-2-1V	Volga	780-21 -121/004	0.647	VVKO	OS	-	G	Sat SSO OD	spaceflightnow.com	-	-
2019-085	2458823.90	2019 Dec 6 0934:11	Soyuz-2-1A	-	N 15000-034	9.911	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2019-088	2458828.87	2019 Dec 11 0854	Soyuz-2-1B	Fregat	N 15000-046/112-10	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2019-092	2458835.87	2019 Dec 18 0854	Soyuz-ST-A	Fregat	R 15000-008/133-12	2.919	AE	OS	-	CO/G	Sat SSO D	spaceflightnow.com	-	-
2020-008	2458886.40	2020 Feb 6 2142:41	Soyuz-2-1B	Fregat	U 15000-048/123-01	5.032	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2020-015	2458899.85	2020 Feb 20 0824:54	Soyuz-2-1A	Fregat	780-21- 118/111-303	2.000	VVKO	OS	-	G	Sat MOL SO	nasaspaceflight.com	-	-
2020-018	2458925.27	2020 Mar 16 1828:10	Soyuz-2-1B	Fregat	760-58- 145/112-11	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2020-020	2458930.21	2020 Mar 21 1706:58	Soyuz-2-1B	Fregat	N 15000-049/123-02	5.032	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2020-023	2458948.84	2020 Apr 9 0805:06	Soyuz-2-1A	-	V 15000-042	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2020-026	2458964.58	2020 Apr 25 0151:41	Soyuz-2-1A	-	Ya15000-038	9.851	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2020-031	2458991.81	2020 May 22 0731:17	Soyuz-2-1B	Fregat	- /?	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	-	-
2020-050	2459054.10	2020 Jul 23 1426:22	Soyuz-2-1A	-	Ya15000-040	9.893	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2020-068	2459120.97	2020 Sep 28 1120:33	Soyuz-2-1B	Fregat	T 15000-025/112-501	0.932	VVKO	OS	-	G/G+C	Sat SSO SD	spaceflightnow.com	-	-
2020-072	2459136.74	2020 Oct 14 0545:04	Soyuz-2-1A	-	Kh15000-045	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2020-075	2459148.30	2020 Oct 25 1908	Soyuz-2-1B	Fregat	G 15000-031/112-12	0.974	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2020-090	2459185.56	2020 Dec 2 0133:28	Soyuz-ST-A	Fregat	N 15000-010/133-18	1.197	AE	OS	-	CO/OG	Sat SSO SD	spaceflightnow.com	-	-
2020-091	2459186.55	2020 Dec 3 0114	Soyuz-2-1B	Fregat	N 15000-045/112-502	0.679	VVKO	OS	-	G	Sat LEO SD	spaceflightnow.com	-	-
2020-100	2459202.02	2020 Dec 18 1226:27	Soyuz-2-1B	Fregat	V 15000-004/123-08	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2020-104	2459213.20	2020 Dec 29 1642:07	Soyuz-ST-A	Fregat	R 15000-006/133-11?	3.562	AE	OS	-	CO/G	Sat SSO SD	spaceflightnow.com	-	-
2021-008	2459248.36	2021 Feb 2 2045:28	Soyuz-2-1B	-	-	6.575	VVKO	OS	-	G	Sat LEO O	spaceflightnow.com	-	-
2021-011	2459260.70	2021 Feb 15 0445:06	Soyuz-2-1A	-	V 15000-041	9.880	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-016	2459273.79	2021 Feb 28 0655:01	Soyuz-2-1B	Fregat	N 15000-032/122-07	2.200	FKA	OS	-	G	Sat MOL SO	spaceflightnow.com	-	-
2021-022	2459295.75	2021 Mar 22 0607:12	Soyuz-2-1A	Fregat	V 15000-044/122-05	1.336	GKLS	OS	-	CO/OG+C	Sat SSO SD	spaceflightnow.com	-	-
2021-025	2459298.62	2021 Mar 25 0247:33	Soyuz-2-1B	Fregat	V 15000-005/123-09	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-029	2459313.82	2021 Apr 9 0742:41	Soyuz-2-1A	-	Kh15000-046	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-031	2459330.43	2021 Apr 25 2214:08	Soyuz-2-1B	Fregat	V 15000-006/123-11	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-045	2459363.24	2021 May 28 1738:39	Soyuz-2-1B	Fregat	V 15000-007/123-10	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-056	2459391.33	2021 Jun 25 1950:00	Soyuz-2-1B	-	-	7.231	VVKO	OS	-	G	Sat LEO O	spaceflightnow.com	-	-
2021-057	2459395.48	2021 Jun 29 2327:20	Soyuz-2-1A	-	B 15000-043	9.881	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-060	2459397.03	2021 Jul 1 1248:33	Soyuz-2-1B	Fregat	V 15000-008/123-12	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-075	2459448.43	2021 Aug 21 2213:40	Soyuz-2-1B	Fregat	N 15000-050/123-03	5.032	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-081	2459467.33	2021 Sep 9 1959:47	Soyuz-2-1V	-	-	0.520	VVKO	OS	-	G	Sat SSO O	spaceflightnow.com	-	-
2021-083	2459472.26	2021 Sep 14 1807:19	Soyuz-2-1B	Fregat	N 15000-051/123-05	5.032	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-089	2459492.87	2021 Oct 5 0855:02	Soyuz-2-1A	-	Kh15000-047	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-090	2459501.90	2021 Oct 14 0940:10	Soyuz-2-1B	Fregat	Kh15000-009/123-14	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2021-098	2459515.50	2021 Oct 28 0000:32	Soyuz-2-1A	-	S 15000-049	9.913	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-111	2459543.05	2021 Nov 24 1306:35	Soyuz-2-1B	-	Ya15000-054	8.186	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-113	2459543.55	2021 Nov 25 0109:13	Soyuz-2-1B	Fregat	- /111-305	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	-	-
2021-116	2459553.51	2021 Dec 5 0019:20	Soyuz-ST-B	Fregat	U 15000-015/133-13	1.466	AE	OS	-	CO/G	Sat MEO SO	spaceflightnow.com	-	-
2021-119	2459556.82	2021 Dec 8 0738:15	Soyuz-2-1A	-	S 15000-053	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2021-132	2459576.05	2021 Dec 27 1310:37	Soyuz-2-1B	Fregat	N 15000-052/123-04	5.328	STSM	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2022-011	2459615.79	2022 Feb 5 0700:00	Soyuz-2-1A	Fregat	780-72-195/ 111-401	2.000	VVKO	OS	-	G	Sat LEO SD	spaceflightnow.com	-	-
2022-012	2459621.26	2022 Feb 10 1809:37	Soyuz-ST-B	Fregat	Ya15000-018/133-19	5.032	AE	OS	-	CO	Sat LEO D	spaceflightnow.com	-	-
2022-014	2459625.68	2022 Feb 15 0425:40	Soyuz-2-1A	-	S 15000-056	9.943	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2022-028	2459657.16	2022 Mar 18 1555:18	Soyuz-2-1A	-	S 15000-050	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2022-030	2459661.03	2022 Mar 22 1248:22	Soyuz-2-1A	Fregat	760-97-216/ 111-30x	2.000	VVKO	OS	-	G	Sat MOL SO	nasaspaceflight.com	-	-
2022-036	2459676.97	2022 Apr 7 1120:18	Soyuz-2-1B	-	-	6.575	VVKO	OS	-	G	Sat LEO O	nasaspaceflight.com	-	-
2022-054	2459718.84	2022 May 19 0803:32	Soyuz-2-1A	-	780-21-118?	3.700	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2022-059	2459733.90	2022 Jun 3 0932:54	Soyuz-2-1A	-	Ya15000-128	9.938	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2022-075	2459767.89	2022 Jul 7 0918:06	Soyuz-2-1B	Fregat	Ya15000-056/ 112-13	0.974	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	-	-
2022-089	2459793.35	2022 Aug 1 2025	Soyuz-2-1V	Volga	-	0.547	VVKO	OS	-	G	Sat SSO OD	spaceflightnow.com	-	-
2022-096	2459800.74	2022 Aug 9 0552:38	Soyuz-2-1B	Fregat	Ya15000-055/ 123-06	0.770	FKA	OS	-	G/OG+G	Sat SSO SD	spaceflightnow.com	-	-
2022-116	2459844.08	2022 Sep 21 1354:49	Soyuz-2-1A	-	S 15000-051	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2022-130	2459862.62	2022 Oct 10 0252:32	Soyuz-2-1B	Fregat	Ya15000-056/ 112-16	0.974	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	-	-
2022-137	2459874.31	2022 Oct 21 1920:15	Soyuz-2-1V	Volga	-	1.000	VVKO	OS	-	G	Sat SSO OO	russianspaceweb.com	-	-
2022-139	2459875.33	2022 Oct 22 1957:09	Soyuz-2-1B	Fregat	Kh15000-011/ 142-503	1.000	VVKO	OS	-	G	Sat LEO SD	nasaspaceflight.com	-	-
2022-140	2459878.51	2022 Oct 26 0020:09	Soyuz-2-1A	-	S 15000-057	9.918	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2022-145	2459885.78	2022 Nov 2 0647:48	Soyuz-2-1B	Fregat	- 111-306	2.550	VVKO	OS	-	G	Sat MOL SO	spaceflightnow.com	-	-
2022-161	2459912.13	2022 Nov 28 1513:50	Soyuz-2-1B	Fregat	N 15000-047/ 112-?	1.450	VVKO	OS	-	G	Sat MEO SO	spaceflightnow.com	-	-
2022-163	2459914.38	2022 Nov 30 2110:25	Soyuz-2-1B	-	760-93-148	6.595	VVKO	OS	-	G	Sat LEO O	TLE	spaceflightnow.com	-
2023-018	2459984.76	2023 Feb 9 0615:36	Soyuz-2-1A	-	M 15000-063	9.918	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-024	2459999.52	2023 Feb 24 0024:29	Soyuz-2-1A	-	M 15000-060	7.218	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-040	2460026.78	2023 Mar 23 0640:11	Soyuz-2-1A	-	-	3.700	VVKO	OS	-	G	Sat LEO O	roskosmos	spaceflightnow.com	-
2023-045	2460033.33	2023 Mar 29 1957:02	Soyuz-2-1V	-	-	0.520	VVKO	OS	-	G	Sat SSO O	spaceflightnow.com	-	-
2023-071	2460089.04	2023 May 24 1256:07	Soyuz-2-1A	-	M 15000-064	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-074	2460091.39	2023 May 26 2114:51	Soyuz-2-1A	Fregat	V 15000-004/ 142-01	1.050	FKA	OS	-	G	Sat SSO SD	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-091	2460122.98	2023 Jun 27 1134:49	Soyuz-2-1B	Fregat	Kh15000-010/ 142-02	3.407	FKA	OS	-	G	Sat SSO SD	nasaspaceflight.com	-	-
2023-114	2460164.06	2023 Aug 7 1319:25	Soyuz-2-1B	Fregat	- / 112-23	1.645	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	-	-
2023-118	2460167.47	2023 Aug 10 2310:57	Soyuz-2-1B	Fregat	V 15000-003/ 122-10	1.800	FKA	DS	-	G	Sat EEO SE	nasaspaceflight.com	-	-
2023-125	2460179.55	2023 Aug 23 0108:10	Soyuz-2-1A	-	M 15000-065	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-143	2460203.16	2023 Sep 15 1544:35	Soyuz-2-1A	-	M 15000-061	7.200	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-165	2460244.75	2023 Oct 27 0604:43	Soyuz-2-1B	-	-	6.595	VVKO	OS	-	G	Sat LEO O	novosti-kosmonavtiki	TLE	-
2023-182	2460274.37	2023 Nov 25 2058:06	Soyuz-2-1B	-	-	6.500	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-184	2460279.89	2023 Dec 1 0925:12	Soyuz-2-1A	-	M 15000-067	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2023-198	2460294.89	2023 Dec 16 0917:48	Soyuz-2-1B	Fregat	Ya15000-058/ 122-11	2.200	FKA	OS	-	G	Sat MOL SO	russianspaceweb.com	-	-
2023-201	2460299.87	2023 Dec 21 0848:39	Soyuz-2-1B	?	-	3.700	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2023-209	2460305.79	2023 Dec 27 0703:44	Soyuz-2-1V	-	-	0.520	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2024-026	2460349.79	2024 Feb 9 0703	Soyuz-2-1V	-	-	0.520	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2024-029	2460355.64	2024 Feb 15 0325:06	Soyuz-2-1A	-	M 15000-068	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2024-039	2460369.74	2024 Feb 29 0543:26	Soyuz-2-1B	Fregat	S 15000-012/ 142-03	3.452	FKA	OS	-	G	Sat SSO SD	nasaspaceflight.com	-	-
2024-055	2460393.03	2024 Mar 23 1236:10	Soyuz-2-1A	-	M 15000-066	7.200	FKA	OS	-	G	Sat ISS O	nasaspaceflight.com	-	-
2024-061	2460400.90	2024 Mar 31 0936:45	Soyuz-2-1B	-	Kh15000-067	6.000	FKA	OS	-	G	Sat SSO O	russianspaceweb.com	-	-
2024-092	2460447.39	2024 May 16 2121	Soyuz-2-1B	Fregat	770-53-735 xxx-xx	0.700	VVKO	OS	-	G	Sat SSO SD	nasaspaceflight.com	-	-
2024-103	2460460.90	2024 May 30 0942:59	Soyuz-2-1A	-	-	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2024-145	2460537.64	2024 Aug 15 0320:18	Soyuz-2-1A	-	A 15000-072	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2024-162	2460565.18	2024 Sep 11 1623:12	Soyuz-2-1A	-	M 15000-070	7.200	FKA	OS	-	G	Sat ISS O	nasaspaceflight.com	-	-
2024-197	2460614.83	2024 Oct 31 0751:31	Soyuz-2-1A	-	760-72-531	3.700	VVKO	OS	-	G	Sat SSO O	nasaspaceflight.com	-	-
2024-199	2460619.47	2024 Nov 4 2318:40	Soyuz-2-1B	Fregat	S 15000-013 142-601	3.500	FKA	OS	-	G	Sat SSO SD	nasaspaceflight.com	-	-
2024-215	2460636.02	2024 Nov 21 1222:24	Soyuz-2-1A	-	K 15000-074	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2024-223	2460644.41	2024 Nov 29 2150:25	Soyuz-2-1A	Fregat	S 15000-005 142-04	1.050	FKA	OS	-	G	Sat SSO SD	russianspaceweb.com	-	-
2024-230	2460649.25	2024 Dec 4 1803:13	Soyuz-2-1B	-	-	6.595	VVKO	OS	-	G	Sat LEO O	russianspaceweb.com	-	-
2024-250	2460669.82	2024 Dec 25 0745:42	Soyuz-2-1B	-	S 15000-068	6.000	FKA	OS	-	G	Sat SSO O	russianspaceweb.com	-	-
2025-026	2460711.67	2025 Feb 5 0359	Soyuz-2-1V	Volga	-	2.000	VVKO	OS	-	G	Sat LEO O	russianspaceweb.com	-	-
2025-041	2460734.39	2025 Feb 27 2124:27	Soyuz-2-1A	-	N 15000-076	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-
2025-042	2460737.43	2025 Mar 2 2222:16	Soyuz-2-1B	Fregat	-	1.645	VVKO	OS	-	G	Sat MEO SO	nasaspaceflight.com	-	-
2025-072	2460773.74	2025 Apr 8 0547:15	Soyuz-2-1A	-	K 15000-075	7.200	FKA	OS	-	G	Sat ISS O	nasaspaceflight.com	-	-
2025-109	2460818.86	2025 May 23 0836	Soyuz-2-1B	Fregat	-	2.000	VVKO	OS	-	G	Sat LEO SD	russianspaceweb.com	-	-
2025-146	2460860.31	2025 Jul 3 1932:40	Soyuz-2-1A	-	Kh15000-048	7.500	FKA	OS	-	G	Sat ISS O	spaceflightnow.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S107	2437398.89	1961 Apr 9 0916	R-9A	-	E 103 08	8K75 LKI-1	MGCh 8K75	-	-	NIIP-5	LC51	-	-	800?	-	(Kura)
1961-S121	2437410.60	1961 Apr 21 0226:14	R-9A	-	E 103 09	8K75 LKI-2	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1961-A109	2437414.60	1961 Apr 25 0226	R-9A	-	E 15001-02T	8K75 LKI-3	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0	-	(Kura)
1961-A131	2437448.57	1961 May 29 0144:23	R-9A	-	E 103 10	8K75 LKI-4	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Kura)
1961-A146	2437452.72	1961 Jun 2 0512:14	R-9A	-	E 15001-01T	8K75 LKI-5	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Kura)
1961-S219	2437506.16	1961 Jul 25 1557	R-9A	-	E 103 12	8K75 LKI-6	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1961-S224	2437511.17	1961 Jul 30 1600:09	R-9A	-	E 15001-25	8K75 LKI-7	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1961-A184	2437515.18	1961 Aug 3 1623	R-9A	-	E 103 13	8K75 LKI-8	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0	-	(Kura)
1961-A198	2437553.26	1961 Sep 10 1810?	R-9A	-	E 103 11	8K75 LKI-9	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Kura)
1961-A203	2437562.20	1961 Sep 19 1655:06	R-9A	-	E 103 14	8K75 LKI-10	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Kura)
1961-S298	2437568.54	1961 Sep 26 0057	R-9A	-	E 103 15	8K75 LKI-11	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	6314	Kura
1961-S324	2437579.37	1961 Oct 6 2057	R-9A	-	E 15001-21	8K75 LKI-12	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	12000	Pacific
1961-A218	2437581.16	1961 Oct 8 1544	R-9A	-	E 15001-22	8K75 LKI-13	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Pacific)
1961-S330	2437585.15	1961 Oct 12 1535:18	R-9A	-	E 15001-23	8K75 LKI-14	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Pacific
1961-A224	2437598.75	1961 Oct 26 0554:53	R-9A	-	E 15001-24	8K75 LKI-15	MGCh 8K75	-	-	NIIP-5	LC51	-	-	0?	-	(Pacific)
1962-A34	2437744.38	1962 Mar 20 2114:05	R-9A	-	E 103 17	8K75 LKI 2-1	MGCh 8K75	-	-	NIIP-5	LC51	-	-	70?	-	Tartarsk
1962-S73	2437746.35	1962 Mar 22 2026:12	R-9A	-	E 103 16	8K75 LKI 2-2	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1962-S103	2437773.31	1962 Apr 18 1929	R-9A	-	E 15001-20	8K75 LKI 2-3	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1962-A57	2437775.36	1962 Apr 20 2032	R-9A	-	E 15001-19	8K75 LKI 2-4	MGCh 8K75	-	-	NIIP-5	LC51	-	-	5?	10	(Kura)
1962-S106	2437778.31	1962 Apr 23 1930	R-9A	-	E 15001-18	8K75 LKI 2-5	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1962-S181	2437824.62	1962 Jun 9 0259:39	R-9A	-	T 103 29	8K75 LKI 2-6	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1962-S184	2437829.69	1962 Jun 14 0430	R-9A	-	T 103 28	8K75 LKI 2-7	MGCh 8K75	-	-	NIIP-5	LC51	-	-	1160?	-	Kura
1962-S192	2437834.86	1962 Jun 19 0840:35	R-9A	-	E 15001-27	8K75 LKI 2-8	MGCh 8K75N	-	-	NIIP-5	LC75/13	-	-	1160?	-	Kura
1962-S197	2437836.64	1962 Jun 21 0327	R-9A	-	E 15001-26	8K75 LKI 2-9	MGCh 8K75N	-	-	NIIP-5	LC75/13	-	-	1160?	-	Kura
1962-S253	2437867.21	1962 Jul 21 1701	R-9A	-	T 103 30	8K75 LKI 2-10	MGCh 8K75	-	-	NIIP-5	LC75/13	-	-	1160?	-	Kura
1962-S255	2437870.21	1962 Jul 24 1705	R-9A	-	T 103 31	8K75 LKI 2-11	MGCh 8K75	-	-	NIIP-5	LC75/13	-	-	1160?	-	Kura
1962-A118	2437874.68	1962 Jul 29 0416	R-9A	-	T 103 32	8K75 LKI 2-12	MGCh 8K75	-	-	NIIP-5	LC75/13	-	-	200?	625	(Kura)
1962-A175	2437959.65	1962 Oct 22 0336:13	R-9A	-	T 15001-01	8K75 LKI 2-13	MGCh 8K75N	Operation K-3	-	NIIP-5	LC75/13	-	-	5?	10	(Kura)
1962-A178	2437965.69	1962 Oct 28 0436:17	R-9A	-	T 15001-05	8K75 LKI 2-14	MGCh 8K75	Operation K-4	-	NIIP-5	LC51/5	-	-	0	0	(Kura)
1963-S42	2438072.12	1963 Feb 11 1454:27	R-9A	-	E 15001-33	8K75 LKI 3-1	MGCh 8K77	Military test 1	-	NIIP-5	LC75/12	-	-	1160?	-	Kura
1963-A23	2438075.00	1963 Feb 14 1202:15	R-9A	-	T 15000-10	8K75 LKI 3-2	MGCh 8K77	-	-	NIIP-5	LC75/12	-	-	0?	-	(Kura)
1963-S64	2438082.92	1963 Feb 22 1003:12	R-9A	-	T 15002-04	8K75 LKI 3-3	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-A35	2438099.96	1963 Mar 11 1102:22	R-9A	-	E 15001-34	8K75 LKI 3-4	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	100?	-	(Kura)
1963-S95	2438102.96	1963 Mar 14 1101:08	R-9A	-	E 15001-35	8K75 LKI 3-5	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-S217	2438170.09	1963 May 20 1407:37	R-9A	-	T 103 44	8K75 LKI 3-6	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-A91	2438194.25	1963 Jun 13 1801:26	R-9A	-	G 15001-05	8K75 LKI 3-7	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	0?	-	(Kura)
1963-A112	2438234.63	1963 Jul 24 0300:30	R-9A	-	T 15001-06	8K75 LKI 3-8	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	0?	-	(Kura)
1963-S441	2438284.90	1963 Sep 12 0936:54	R-9A	-	T 15001-03	8K75 LKI 3-9	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-S443	2438289.75	1963 Sep 17 0600:34	R-9A	-	T 15001-07	8K75 LKI 3-10	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-S06	2438299.67	1963 Sep 27 0402	R-9A	-	- 103 41	8K75 LKI 3-11	MGCh 8K77	Silo test 8K75V	-	NIIP-5	LC70/11	-	-	500?	-	(Kura)
1963-A148	2438320.58	1963 Oct 18 0200:52	R-9A	-	- 103 43	8K75 LKI 3-12	MGCh 8K77	-	-	NIIP-5	LC70/11	-	-	40?	-	(Kura)
1963-E02	2438326.50	1963 Oct 24	R-9A	-	-	8K75	Fuelling accident	-	-	NIIP-5	LC70/11?	-	-	0	-	-
1963-S542	2438338.59	1963 Nov 5 0211:47	R-9A	-	E 15001-12	8K75 LKI 3-13	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1963-A179	2438367.71	1963 Dec 4 0500	R-9A	-	G 15000-04 (8TS)	8K75 LKI 3-14	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	0?	-	(Kura)
1963-A183	2438371.71	1963 Dec 8 0500	R-9A	-	G 15001-07 (9TS)	8K75 LKI 3-15	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	0?	-	(Kura)
1963-S614	2438384.57	1963 Dec 21 0145:47	R-9A	-	E 15001-06	8K75 LKI 3-16	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Pacific
1963-S616	2438388.79	1963 Dec 25 0650:56	R-9A	-	G 15001-08 (5TS)	8K75 LKI 3-17	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Pacific
1964-S16	2438398.54	1964 Jan 4 0100	R-9A	-	G 15001-03	8K75 LKI 3-18 SLI	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1964-S21	2438403.54	1964 Jan 9 0103	R-9A	-	G 103 42	8K75 LKI 3-19 SLI	MGCh 8K77	-	-	NIIP-5	LC70/10	-	-	1160?	6316	Kura
1964-S24	2438406.54	1964 Jan 12 0101:26	R-9A	-	T 103 45	8K75 LKI 3-20 SLI	MGCh 8K77	-	-	NIIP-5	LC70/9	-	-	1160?	6314	Kura
1964-S43	2438416.71	1964 Jan 22 0506:24	R-9A	-	G 15001-04 (7TS)	8K75 LKI 3-21 SLI	MGCh 8K77	-	-	NIIP-5	LC70/11	-	-	1160?	12000	Pacific
1964-A06	2438416.72	1964 Jan 22 0516:39	R-9A	-	G 15001-09 (10TS)	8K75 LKI 3-22 SLI	MGCh 8K77	-	-	NIIP-5	LC70/10	-	-	100?	400	(Kura)
1964-S44	2438416.73	1964 Jan 22 0536:32	R-9A	-	G 15001-02 (6TS)	8K75 LKI 3-23	MGCh 8K77	-	-	NIIP-5	LC70/9	-	-	1160?	12000?	Pacific?
1964-S50	2438419.83	1964 Jan 25 0759:57	R-9A	-	G 15001-03A (1TS)	8K75 LKI 3-24 SLI	MGCh 8K77	-	-	NIIP-5	LC70/11	-	-	1160?	6316	Kura
1964-S71	2438427.50	1964 Feb 2	R-9A	-	-	8K75 LKI 3-25 UBP	MGCh 8K77	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1964-S247	2438531.00	1964 May 15 1201	R-9A	-	R 15001-03	8K75 UBP-1	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1964-S480	2438662.38	1964 Sep 23 2100	R-9A	-	G 15001-13	8K75 UBP-2	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1965-S130	2438823.69	1965 Mar 4 0428	R-9A	-	G 15000-15	8K75 UBP-3	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1965-S139	2438825.79	1965 Mar 6 0700	R-9A	-	T 15001-11	8K75 UBP-4 K	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1965-S799	2438962.50	1965 Jul 21	R-9A	-	-	8K75 UBP Omsk-1	-	-	-	OMSK	LC320/11/3	-	-	0?	-	(Kura)
1965-S10	2439027.62	1965 Sep 24 0249	R-9A	-	U 15001-10	8K75 UBP-5	-	-	-	NIIP-5	LC75/13	-	-	1160?	-	Kura
1965-S11	2439031.88	1965 Sep 28 0900	R-9A	-	U 15001-07	8K75 UBP-6 K	-	-	-	NIIP-5	LC75/12	-	-	1160?	-	Kura
1965-S12	2439052.38	1965 Oct 18 2100	R-9A	-	U 15001-03	8K75 UBP-7 K	-	-	-	NIIP-5	LC70/9	-	-	1160?	-	Kura
1965-S13	2439117.73	1965 Dec 23 0530	R-9A	-	U 15002-03	8K75 UBP-8 ZP	-	-	-	NIIP-5	LC70/9	-	-	1160?	-	Kura
1966-S769	2439187.50	1966 Mar 3	R-9A	-	-	8K75 UBP Omsk-2	-	-	-	OMSK	LC320/11/1	-	-	1160?	-	Kura
1966-S11	2439210.76	1966 Mar 26 0617	R-9A	-	T 15001-08	8K75 UBP-9	-	-	-	NIIP-5	LC70/9	-	-	1160?	-	Kura
1966-S12	2439317.38	1966 Jul 10 2100	R-9A	-	N 15001-05	8K75 UBP-10 ZP	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1966-S770	2439323.50	1966 Jul 17	R-9A	-	-	8K75 UBP Omsk-3	-	-	-	OMSK	LC320/11/2	-	-	1160?	-	Kura
1967-S601	2439626.83	1967 May 16 0800	R-9A	-	G 15002-02	8K75 UBP-P1	-	-	-	NIIP-53	LC31/ShPU-12	-	-	1160?	-	Kura
1967-S735	2439691.50	1967 Jul 20	R-9A	-	-	8K75 UBP-T1	-	-	-	TYUM	LC13/3	-	-	1160?	-	Kura
1967-S736	2439783.50	1967 Oct 20	R-9A	-	-	8K75 UBP-T2	-	-	-	TYUM	LC13	-	-	1160?	-	Kura
1967-S10	2439794.96	1967 Oct 31 1107	R-9A	-	G 15003-10	8K75 UBP-11	-	-	-	NIIP-5	LC75/14	-	-	1160?	-	Kura
1967-S11	2439847.88	1967 Dec 23 0904	R-9A	-	G 15003-01	8K75 UBP-12	-	-	-	NIIP-5	LC70/10	-	-	1160?	-	Kura
1968-S775	2439855.50	1968	R-9A	-	-	8K75 UBP 68-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1968-S733	2440014.50	1968 Jun 7	R-9A	-	-	8K75 UBP-T3	-	-	-	TYUM	LC12/2	-	-	1160?	-	Kura
1968-S727	2440136.83	1968 Oct 7 0800	R-9A	-	G 15002-03	8K75 UBP-P1	-	-	-	NIIP-53	-	-	-	1160?	-	Kura
1968-S728	2440154.93	1968 Oct 25 1015	R-9A	-	G 15002-06	8K75 UBP-P2	-	-	-	NIIP-53	-	-	-	1160?	-	Kura
1968-S28	2440194.88	1968 Dec 4 0900	R-9A	-	G 15003-03	8K75 UBP-13	-	-	-	NIIP-5	LC70/10	-	-	1160?	-	Kura
1969-S814	2440221.50	1969	R-9A	-	-	8K75 UBP 69-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1969-S815	2440221.50	1969	R-9A	-	-	8K75 UBP 69-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1969-S816	2440221.50	1969	R-9A	-	-	8K75 UBP 69-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1969-S817	2440221.50	1969	R-9A	-	-	8K75 UBP 69-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1969-S18	2440227.88	1969 Jan 6 0911	R-9A	-	G 15003-04	8K75 UBP-14	-	-	-	NIIP-5	LC70/10	-	-	1160?	-	Kura
1969-S735	2440526.84	1969 Nov 1 0803	R-9A	-	G 15002-07	8K75 UBP-P3	-	-	-	NIIP-53	-	-	-	1160?	-	Kura
1969-A207	2440570.38	1969 Dec 14 2100	R-9A	-	U 15002-01	8K75 UBP-15	-	-	-	NIIP-5	LC70/11	-	-	100?	-	(Kura)
1970-S767	2440586.50	1970	R-9A	-	-	8K75 UBP 70-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S768	2440586.50	1970	R-9A	-	-	8K75 UBP 70-2	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S769	2440586.50	1970	R-9A	-	-	8K75 UBP 70-3	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S770	2440586.50	1970	R-9A	-	-	8K75 UBP 70-4	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S771	2440586.50	1970	R-9A	-	-	8K75 UBP 70-5	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S772	2440586.50	1970	R-9A	-	-	8K75 UBP 70-6	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S773	2440586.50	1970	R-9A	-	-	8K75 UBP 70-7	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S774	2440586.50	1970	R-9A	-	-	8K75 UBP 70-8	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1970-S775	2440586.50	1970	R-9A	-	-	8K75 UBP 70-9	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S707	2440951.50	1971	R-9A	-	-	8K75 UBP 71-1	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S708	2440951.50	1971	R-9A	-	-	8K75 UBP 71-2	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S709	2440951.50	1971	R-9A	-	-	8K75 UBP 71-3	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S710	2440951.50	1971	R-9A	-	-	8K75 UBP 71-4	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S711	2440951.50	1971	R-9A	-	-	8K75 UBP 71-5	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S712	2440951.50	1971	R-9A	-	-	8K75 UBP 71-6	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S713	2440951.50	1971	R-9A	-	-	8K75 UBP 71-7	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S714	2440951.50	1971	R-9A	-	-	8K75 UBP 71-8	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S715	2440951.50	1971	R-9A	-	-	8K75 UBP 71-9	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S716	2440951.50	1971	R-9A	-	-	8K75 UBP 71-10	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S717	2440951.50	1971	R-9A	-	-	8K75 UBP 71-11	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S718	2440951.50	1971	R-9A	-	-	8K75 UBP 71-12	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S719	2440951.50	1971	R-9A	-	-	8K75 UBP 71-13	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S720	2440951.50	1971	R-9A	-	-	8K75 UBP 71-14	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S721	2440951.50	1971	R-9A	-	-	8K75 UBP 71-15	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S722	2440951.50	1971	R-9A	-	-	8K75 UBP 71-16	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S723	2440951.50	1971	R-9A	-	-	8K75 UBP 71-17	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S724	2440951.50	1971	R-9A	-	-	8K75 UBP 71-18	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S725	2440951.50	1971	R-9A	-	-	8K75 UBP 71-19	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S726	2440951.50	1971	R-9A	-	-	8K75 UBP 71-20	-	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1971-S667	2441102.75	1971 May 31 0600	R-9A	-	G 15001-01	8K75 UBP-P4	-	-	-	NIIP-53	-	-	-	1160?	-	Kura
1972-S499	2441390.50	1972 Mar 14	R-9A	-	-	8K75 UBP Omsk-4	-	-	-	OMSK	LC320/11/1	-	-	1160?	-	Kura
1973-S486	2441875.21	1973 Jul 11 1700	R-9A	-	G 15001-10	8K75 UBP-P5	MGCh	-	-	NIIP-53	-	-	-	1160?	-	Kura
1974-S444	2442068.90	1974 Jan 21 0941	R-9A	-	G 15001-08	8K75 UBP-P6	MGCh	-	-	NIIP-53	-	-	-	1160?	-	Kura
1976-S469	2442777.50	1976	R-9A	-	-	8K75 UBP-76-1	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S470	2442777.50	1976	R-9A	-	-	8K75 UBP-76-2	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S471	2442777.50	1976	R-9A	-	-	8K75 UBP-76-3	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S472	2442777.50	1976	R-9A	-	-	8K75 UBP-76-4	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S473	2442777.50	1976	R-9A	-	-	8K75 UBP-76-5	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S474	2442777.50	1976	R-9A	-	-	8K75 UBP-76-6	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S475	2442777.50	1976	R-9A	-	-	8K75 UBP-76-7	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S476	2442777.50	1976	R-9A	-	-	8K75 UBP-76-8	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S477	2442777.50	1976	R-9A	-	-	8K75 UBP-76-9	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S478	2442777.50	1976	R-9A	-	-	8K75 UBP-76-10	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S479	2442777.50	1976	R-9A	-	-	8K75 UBP-76-11	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S480	2442777.50	1976	R-9A	-	-	8K75 UBP-76-12	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S481	2442777.50	1976	R-9A	-	-	8K75 UBP-76-13	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura
1976-S482	2442777.50	1976	R-9A	-	-	8K75 UBP-76-14	MGCh	-	-	NIIP-53?	-	-	-	1160?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S107	2437398.89	1961 Apr 9 0916	R-9A	-	E 103 08	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-S121	2437410.60	1961 Apr 21 0226:14	R-9A	-	E 103 09	0.000	RVSN	MS	-	-	Test	NezavB	-	-
1961-A109	2437414.60	1961 Apr 25 0226	R-9A	-	E 15001-02T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-A131	2437448.57	1961 May 29 0144:23	R-9A	-	E 103 10	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-A146	2437452.72	1961 Jun 2 0512:14	R-9A	-	E 15001-01T	0.000	RVSN	MF	U	-	Test	NezavB	-	-
1961-S219	2437506.16	1961 Jul 25 1557	R-9A	-	E 103 12	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S224	2437511.17	1961 Jul 30 1600:09	R-9A	-	E 15001-25	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A184	2437515.18	1961 Aug 3 1623	R-9A	-	E 103 13	0.000	RVSN	MF	U	-	Test	BML	Chertok3	-
1961-A198	2437553.26	1961 Sep 10 1810?	R-9A	-	E 103 11	0.000	RVSN	MF	U	-	Test	BML	NezavB	[Or Sep 9 2345]
1961-A203	2437562.20	1961 Sep 19 1655:06	R-9A	-	E 103 14	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S298	2437568.54	1961 Sep 26 0057	R-9A	-	E 103 15	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-S324	2437579.37	1961 Oct 6 2057	R-9A	-	E 15001-21	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A218	2437581.16	1961 Oct 8 1544	R-9A	-	E 15001-22	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1961-S330	2437585.15	1961 Oct 12 1535:18	R-9A	-	E 15001-23	0.000	RVSN	MS	-	-	Test	BML	NezavB	-
1961-A224	2437598.75	1961 Oct 26 0554:53	R-9A	-	E 15001-24	0.000	RVSN	MF	U	-	Test	BML	NezavB	-
1962-A34	2437744.38	1962 Mar 20 2114:05	R-9A	-	E 103 17	0.000	RVSN	MF	U	-	OT	BML	RDP78T05439	XPC
1962-S73	2437746.35	1962 Mar 22 2026:12	R-9A	-	E 103 16	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S103	2437773.31	1962 Apr 18 1929	R-9A	-	E 15001-20	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-A57	2437775.36	1962 Apr 20 2032	R-9A	-	E 15001-19	0.000	RVSN	MF	U	-	OT	BML	RDP78T05439	XPC
1962-S106	2437778.31	1962 Apr 23 1930	R-9A	-	E 15001-18	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S181	2437824.62	1962 Jun 9 0259:39	R-9A	-	T 103 29	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S184	2437829.69	1962 Jun 14 0430	R-9A	-	T 103 28	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S192	2437834.86	1962 Jun 19 0840:35	R-9A	-	E 15001-27	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S197	2437836.64	1962 Jun 21 0327	R-9A	-	E 15001-26	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-S253	2437867.21	1962 Jul 21 1701	R-9A	-	T 103 30	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	[Or 0421?]
1962-S255	2437870.21	1962 Jul 24 1705	R-9A	-	T 103 31	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	-
1962-A118	2437874.68	1962 Jul 29 0416	R-9A	-	T 103 32	0.000	RVSN	MF	U	-	OT	BML	RDP78T05439	-
1962-A175	2437959.65	1962 Oct 22 0336:13	R-9A	-	T 15001-01	0.000	RVSN	MF	U	-	OT	RDP78T05439	XPC	-
1962-A178	2437965.69	1962 Oct 28 0436:17	R-9A	-	T 15001-05	0.000	RVSN	MF	U	-	OT	NK0008-71	Chertok3	0437 per BML?
1963-S42	2438072.12	1963 Feb 11 1454:27	R-9A	-	E 15001-33	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	Glazami
1963-A23	2438075.00	1963 Feb 14 1202:15	R-9A	-	T 15000-10	0.000	RVSN	MF	U	-	OT	RML	-	-
1963-S64	2438082.92	1963 Feb 22 1003:12	R-9A	-	T 15002-04	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC
1963-A35	2438099.96	1963 Mar 11 1102:22	R-9A	-	E 15001-34	0.000	RVSN	MF	U	-	OT	RML	-	-
1963-S95	2438102.96	1963 Mar 14 1101:08	R-9A	-	E 15001-35	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC
1963-S217	2438170.09	1963 May 20 1407:37	R-9A	-	T 103 44	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC
1963-A91	2438194.25	1963 Jun 13 1801:26	R-9A	-	G 15001-05	0.000	RVSN	MF	U	-	OT	RFX	-	-
1963-A112	2438234.63	1963 Jul 24 0300:30	R-9A	-	T 15001-06	0.000	RVSN	MF	U	-	OT	RFX	-	-
1963-S441	2438284.90	1963 Sep 12 0936:54	R-9A	-	T 15001-03	0.000	RVSN	MS	-	-	OT	RDP78T05439	XPC	-
1963-S443	2438289.75	1963 Sep 17 0600:34	R-9A	-	T 15001-07	0.000	RVSN	MS	-	-	OT	RDP78T05439	XPC	-
1963-S06	2438299.67	1963 Sep 27 0402	R-9A	-	- 103 41	0.000	RVSN	MF	U	-	OT	RML	-	-
1963-A148	2438320.58	1963 Oct 18 0200:52	R-9A	-	- 103 43	0.000	RVSN	MF	U	-	OT	RML	-	-
1963-E02	2438326.50	1963 Oct 24	R-9A	-	-	0.000	RVSN	ME	-	-	OT	russianspaceweb.com	-	-
1963-S542	2438338.59	1963 Nov 5 0211:47	R-9A	-	E 15001-12	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1963-A179	2438367.71	1963 Dec 4 0500	R-9A	-	G 15000-04 (8TS)	0.000	RVSN	MF	U	-	OT	RFX	-	-
1963-A183	2438371.71	1963 Dec 8 0500	R-9A	-	G 15001-07 (9TS)	0.000	RVSN	MF	U	-	OT	BML	XPC	-
1963-S614	2438384.57	1963 Dec 21 0145:47	R-9A	-	E 15001-06	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1963-S616	2438388.79	1963 Dec 25 0650:56	R-9A	-	G 15001-08 (5TS)	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1964-S16	2438398.54	1964 Jan 4 0100	R-9A	-	G 15001-03	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1964-S21	2438403.54	1964 Jan 9 0103	R-9A	-	G 103 42	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1964-S24	2438406.54	1964 Jan 12 0101:26	R-9A	-	T 103 45	0.000	RVSN	MS	-	-	OT	RML	RDP78T05439	XPC -
1964-S43	2438416.71	1964 Jan 22 0506:24	R-9A	-	G 15001-04 (7TS)	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1964-A06	2438416.72	1964 Jan 22 0516:39	R-9A	-	G 15001-09 (10TS)	0.000	RVSN	MF	U	-	OT	BML	RDP78T05439	XPC
1964-S44	2438416.73	1964 Jan 22 0536:32	R-9A	-	G 15001-02 (6TS)	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1964-S50	2438419.83	1964 Jan 25 0759:57	R-9A	-	G 15001-03A (1TS)	0.000	RVSN	MS	-	-	OT	RDP78T05439	XPC	-
1964-S71	2438427.50	1964 Feb 2	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RDP78T05439	XPC	-
1964-S247	2438531.00	1964 May 15 1201	R-9A	-	R 15001-03	0.000	RVSN	MS	-	-	OT	RDP78T05439	XPC	-
1964-S480	2438662.38	1964 Sep 23 2100	R-9A	-	G 15001-13	0.000	RVSN	MS	-	-	OT	BML/RDP78T05439	XPC	-
1965-S130	2438823.69	1965 Mar 4 0428	R-9A	-	G 15000-15	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1965-S139	2438825.79	1965 Mar 6 0700	R-9A	-	T 15001-11	0.000	RVSN	MS	-	-	OT	BML	RDP78T05439	XPC
1965-S799	2438962.50	1965 Jul 21	R-9A	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1965-S10	2439027.62	1965 Sep 24 0249	R-9A	-	U 15001-10	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1965-S11	2439031.88	1965 Sep 28 0900	R-9A	-	U 15001-07	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1965-S12	2439052.38	1965 Oct 18 2100	R-9A	-	U 15001-03	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1965-S13	2439117.73	1965 Dec 23 0530	R-9A	-	U 15002-03	0.000	RVSN	MS	-	-	OT	RPCA	-	BML 0530/0739?
1966-S769	2439187.50	1966 Mar 3	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S11	2439210.76	1966 Mar 26 0617	R-9A	-	T 15001-08	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1966-S12	2439317.38	1966 Jul 10 2100	R-9A	-	N 15001-05	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1966-S770	2439323.50	1966 Jul 17	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S601	2439626.83	1967 May 16 0800	R-9A	-	G 15002-02	0.000	RVSN	MS	-	-	Test?	RML	NK0709-36	-
1967-S735	2439691.50	1967 Jul 20	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S736	2439783.50	1967 Oct 20	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S10	2439794.96	1967 Oct 31 1107	R-9A	-	G 15003-10	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1967-S11	2439847.88	1967 Dec 23 0904	R-9A	-	G 15003-01	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1968-S775	2439855.50	1968	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S733	2440014.50	1968 Jun 7	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S727	2440136.83	1968 Oct 7 0800	R-9A	-	G 15002-03	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S728	2440154.93	1968 Oct 25 1015	R-9A	-	G 15002-06	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S28	2440194.88	1968 Dec 4 0900	R-9A	-	G 15003-03	0.000	RVSN	MS	-	-	OT	RML	RPCA	-
1969-S814	2440221.50	1969	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S815	2440221.50	1969	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S816	2440221.50	1969	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S817	2440221.50	1969	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-S18	2440227.88	1969 Jan 6 0911	R-9A	-	G 15003-04	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1969-S735	2440526.84	1969 Nov 1 0803	R-9A	-	G 15002-07	0.000	RVSN	MS	-	-	OT	RML	-	-
1969-A207	2440570.38	1969 Dec 14 2100	R-9A	-	U 15002-01	0.000	RVSN	MF	U	-	OT	BML	XPC	St2 fail
1970-S767	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S768	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S769	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S770	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S771	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S772	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S773	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S774	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S775	2440586.50	1970	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S707	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S708	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S709	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S710	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S711	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S712	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S713	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S714	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S715	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S716	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S717	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S718	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S719	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S720	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S721	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S722	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S723	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S724	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S725	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S726	2440951.50	1971	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1971-S667	2441102.75	1971 May 31 0600	R-9A	-	G 15001-01	0.000	RVSN	MS	-	-	OT	RML	-	-
1972-S499	2441390.50	1972 Mar 14	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S486	2441875.21	1973 Jul 11 1700	R-9A	-	G 15001-10	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S444	2442068.90	1974 Jan 21 0941	R-9A	-	G 15001-08	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S469	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S470	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S471	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S472	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S473	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S474	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S475	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S476	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S477	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S478	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S479	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S480	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S481	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1976-S482	2442777.50	1976	R-9A	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A149	2440586.50	1970	RH-125	-	-	First Flight	-	-	-	TERLS	-	-	-	11?	-	-
1970-A150	2440586.50	1970	Menaka II	-	-	First Flight	-	-	-	TERLS	-	-	-	40?	-	-
1971-A83	2441233.50	1971 Oct 9	RH-125	-	-	Range Test	-	-	-	SHAR	RH	-	-	11?	-	-
1971-A214	2441234.50	1971 Oct 10	RH-125	-	-	TVC	-	-	-	SHAR	RH	-	-	40?	-	-
1971-A215	2441234.50	1971 Oct 10	RH-125	-	-	TVC	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A140	2441631.50	1972 Nov 10	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A141	2441631.50	1972 Nov 10	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A142	2441632.50	1972 Nov 11	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A143	2441658.50	1972 Dec 7	Menaka II	-	-	-	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A144	2441658.50	1972 Dec 7	Menaka II	-	-	-	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A145	2441658.50	1972 Dec 7	Menaka II	-	-	-	-	-	-	SHAR	RH	-	-	40?	-	-
1972-A146	2441659.50	1972 Dec 8	Menaka II	-	-	-	-	-	-	SHAR	RH	-	-	40?	-	-
1973-A95	2441799.50	1973 Apr 27	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1973-A96	2441799.50	1973 Apr 27	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1973-A98	2441816.50	1973 May 14	MCR-3/RH-125	-	-	MCR-3	-	-	-	SHAR	RH	-	-	40?	-	-
1975-A79	2442601.75	1975 Jul 8 0600	Menaka II	-	-	Gerdien probe	-	-	-	TERLS	-	-	-	40	-	-
1976-A90	2442848.50	1976 Mar 11	RH-125	-	RH-125-73	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A91	2442848.50	1976 Mar 11	RH-125	-	RH-125-83	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A92	2442855.50	1976 Mar 18	RH-125	-	RH-125-78	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A93	2442855.50	1976 Mar 18	RH-125	-	RH-125-79	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A94	2442862.50	1976 Mar 25	RH-125	-	RH-125-74	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A95	2442869.50	1976 Apr 1	RH-125	-	RH-125-85	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A96	2442869.50	1976 Apr 1	RH-125	-	RH-125-69	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A97	2442883.50	1976 Apr 15	RH-125	-	RH-125-70	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A98	2442883.50	1976 Apr 15	RH-125	-	RH-125-81	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A99	2442890.50	1976 Apr 22	RH-125	-	RH-125-75	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A100	2442890.50	1976 Apr 22	RH-125	-	RH-125-77	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A101	2442897.50	1976 Apr 29	RH-125	-	RH-125-82	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A102	2442897.50	1976 Apr 29	RH-125	-	RH-125-76	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A103	2442905.50	1976 May 7	RH-125	-	RH-125-80	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A104	2442905.50	1976 May 7	RH-125	-	RH-125-86	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A105	2442910.50	1976 May 12	RH-125	-	RH-125-84	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A106	2442910.50	1976 May 12	RH-125	-	RH-125-78	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A107	2442918.50	1976 May 20	RH-125	-	RH-125-88	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A108	2442918.50	1976 May 20	RH-125	-	RH-125-71	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A109	2442943.50	1976 Jun 14	RH-125	-	RH-125-99	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A110	2443064.50	1976 Oct 13	Menaka II	-	Menaka-II-07	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A111	2443074.50	1976 Oct 23	Menaka II	-	Menaka-II-08	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A112	2443078.50	1976 Oct 27	Menaka II	-	Menaka-II-05	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A113	2443085.50	1976 Nov 3	Menaka II	-	Menaka-II-10	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A114	2443085.50	1976 Nov 3	Menaka II	-	Menaka-II-06	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A115	2443093.50	1976 Nov 11	Menaka II	-	Menaka-II-09	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A116	2443099.50	1976 Nov 17	Menaka II	-	Menaka-II-11	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A117	2443102.50	1976 Nov 20	Menaka II	-	Menaka-II-12	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A118	2443106.50	1976 Nov 24	Menaka II	-	Menaka-II-13	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A119	2443109.50	1976 Nov 27	Menaka II	-	Menaka-II-14	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A120	2443113.50	1976 Dec 1	Menaka II	-	Menaka-II-15	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A121	2443116.50	1976 Dec 4	Menaka II	-	Menaka-II-16	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A122	2443116.50	1976 Dec 4	Menaka II	-	Menaka-II-17	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A123	2443120.50	1976 Dec 8	Menaka II	-	Menaka-II-18	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A124	2443120.50	1976 Dec 8	Menaka II	-	Menaka-II-20	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A125	2443123.50	1976 Dec 11	Menaka II	-	Menaka-II-21	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A126	2443127.50	1976 Dec 15	Menaka II	-	Menaka-II-22	-	-	-	-	SHAR	RH	-	-	40?	-	-
1976-A130	2443134.50	1976 Dec 22	Menaka II	-	Menaka-II-19	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A53	2443143.50	1977	Menaka II	-	-	Parachute Test	-	-	-	TERLS?	-	-	-	40?	-	-
1977-A62	2443316.50	1977 Jun 22	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A63	2443323.50	1977 Jun 29	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A64	2443326.50	1977 Jul 2	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A65	2443337.50	1977 Jul 13	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A66	2443345.50	1977 Jul 21	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-
1977-A67	2443346.50	1977 Jul 22	Menaka II	-	Menaka-II	-	-	-	-	SHAR	RH	-	-	40?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A149	2440586.50	1970	RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	IJRSP15,412	-	-
1970-A150	2440586.50	1970	Menaka II	-	-	0.000	ISRO	SS	-	ISRO/	Test	IJRSP15,412	-	-
1971-A83	2441233.50	1971 Oct 9	RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SP-4016	bharat-rashshak.com	-
1971-A214	2441234.50	1971 Oct 10	RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1971-A215	2441234.50	1971 Oct 10	RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A140	2441631.50	1972 Nov 10	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A141	2441631.50	1972 Nov 10	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A142	2441632.50	1972 Nov 11	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A143	2441658.50	1972 Dec 7	Menaka II	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A144	2441658.50	1972 Dec 7	Menaka II	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A145	2441658.50	1972 Dec 7	Menaka II	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1972-A146	2441659.50	1972 Dec 8	Menaka II	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1973-A95	2441799.50	1973 Apr 27	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1973-A96	2441799.50	1973 Apr 27	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1973-A98	2441816.50	1973 May 14	MCR-3/RH-125	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1975-A79	2442601.75	1975 Jul 8 0600	Menaka II	-	-	0.000	ISRO	SS	-	NPL/MohanRao	Aeron	IJRSP7,90	-	-
1976-A90	2442848.50	1976 Mar 11	RH-125	-	RH-125-73	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A91	2442848.50	1976 Mar 11	RH-125	-	RH-125-83	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A92	2442855.50	1976 Mar 18	RH-125	-	RH-125-78	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A93	2442855.50	1976 Mar 18	RH-125	-	RH-125-79	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A94	2442862.50	1976 Mar 25	RH-125	-	RH-125-74	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A95	2442869.50	1976 Apr 1	RH-125	-	RH-125-85	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A96	2442869.50	1976 Apr 1	RH-125	-	RH-125-69	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A97	2442883.50	1976 Apr 15	RH-125	-	RH-125-70	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A98	2442883.50	1976 Apr 15	RH-125	-	RH-125-81	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A99	2442890.50	1976 Apr 22	RH-125	-	RH-125-75	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A100	2442890.50	1976 Apr 22	RH-125	-	RH-125-77	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A101	2442897.50	1976 Apr 29	RH-125	-	RH-125-82	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A102	2442897.50	1976 Apr 29	RH-125	-	RH-125-76	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A103	2442905.50	1976 May 7	RH-125	-	RH-125-80	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A104	2442905.50	1976 May 7	RH-125	-	RH-125-86	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A105	2442910.50	1976 May 12	RH-125	-	RH-125-84	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A106	2442910.50	1976 May 12	RH-125	-	RH-125-78	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A107	2442918.50	1976 May 20	RH-125	-	RH-125-88	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A108	2442918.50	1976 May 20	RH-125	-	RH-125-71	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A109	2442943.50	1976 Jun 14	RH-125	-	RH-125-99	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A110	2443064.50	1976 Oct 13	Menaka II	-	Menaka-II-07	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A111	2443074.50	1976 Oct 23	Menaka II	-	Menaka-II-08	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A112	2443078.50	1976 Oct 27	Menaka II	-	Menaka-II-05	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A113	2443085.50	1976 Nov 3	Menaka II	-	Menaka-II-10	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A114	2443085.50	1976 Nov 3	Menaka II	-	Menaka-II-06	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A115	2443093.50	1976 Nov 11	Menaka II	-	Menaka-II-09	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A116	2443099.50	1976 Nov 17	Menaka II	-	Menaka-II-11	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A117	2443102.50	1976 Nov 20	Menaka II	-	Menaka-II-12	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A118	2443106.50	1976 Nov 24	Menaka II	-	Menaka-II-13	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A119	2443109.50	1976 Nov 27	Menaka II	-	Menaka-II-14	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A120	2443113.50	1976 Dec 1	Menaka II	-	Menaka-II-15	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A121	2443116.50	1976 Dec 4	Menaka II	-	Menaka-II-16	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A122	2443116.50	1976 Dec 4	Menaka II	-	Menaka-II-17	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A123	2443120.50	1976 Dec 8	Menaka II	-	Menaka-II-18	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A124	2443120.50	1976 Dec 8	Menaka II	-	Menaka-II-20	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A125	2443123.50	1976 Dec 11	Menaka II	-	Menaka-II-21	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A126	2443127.50	1976 Dec 15	Menaka II	-	Menaka-II-22	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1976-A130	2443134.50	1976 Dec 22	Menaka II	-	Menaka-II-19	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A53	2443143.50	1977	Menaka II	-	-	0.000	ISRO	SS	-	IITM/Vernekar	Test	IJRSP6,281	-	-
1977-A62	2443316.50	1977 Jun 22	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A63	2443323.50	1977 Jun 29	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A64	2443326.50	1977 Jul 2	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A65	2443337.50	1977 Jul 13	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A66	2443345.50	1977 Jul 21	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1977-A67	2443346.50	1977 Jul 22	Menaka II	-	Menaka-II	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-M05	2443846.50	1978 Dec 4	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1978-M06	2443846.50	1978 Dec 4	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1978-M07	2443847.50	1978 Dec 5	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1978-M08	2443847.50	1978 Dec 5	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1978-M09	2443847.50	1978 Dec 5	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1979-M148	2443878.50	1979 Jan 5	RH-200	-	-	-	-	-	-	SHAR	RH	-	-	60?	-	-
1979-M167	2443878.50	1979 Jan 5	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M05	2443879.50	1979 Jan 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M06	2443883.50	1979 Jan 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M07	2443885.50	1979 Jan 12	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M08	2443886.50	1979 Jan 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M09	2443890.50	1979 Jan 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M10	2443892.50	1979 Jan 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M15	2443897.50	1979 Jan 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M11	2443897.50	1979 Jan 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M12	2443899.50	1979 Jan 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M16	2443899.50	1979 Jan 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M13	2443902.50	1979 Jan 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M14	2443904.50	1979 Jan 31	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M17	2443904.50	1979 Jan 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M166	2443906.50	1979 Feb 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M26	2443906.50	1979 Feb 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M18	2443907.50	1979 Feb 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M19	2443911.50	1979 Feb 7	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M27	2443911.50	1979 Feb 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M20	2443913.50	1979 Feb 9	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M28	2443913.50	1979 Feb 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M21	2443918.50	1979 Feb 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M29	2443918.50	1979 Feb 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M168	2443906.50	1979 Feb 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M30	2443920.50	1979 Feb 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M22	2443920.50	1979 Feb 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M23	2443925.50	1979 Feb 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M31	2443925.50	1979 Feb 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M32	2443927.50	1979 Feb 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M24	2443927.50	1979 Feb 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M149	2443927.50	1979 Feb 23	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M25	2443932.50	1979 Feb 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M33	2443932.50	1979 Feb 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M34	2443934.50	1979 Mar 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M39	2443934.50	1979 Mar 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M35	2443939.50	1979 Mar 7	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M40	2443939.50	1979 Mar 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M36	2443946.50	1979 Mar 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M170	2443946.50	1979 Mar 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M41	2443946.50	1979 Mar 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M37	2443953.50	1979 Mar 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M42	2443953.50	1979 Mar 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M38	2443960.50	1979 Mar 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M43	2443960.50	1979 Mar 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M44	2443967.50	1979 Apr 4	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M48	2443967.50	1979 Apr 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M45	2443974.50	1979 Apr 11	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M49	2443974.50	1979 Apr 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M46	2443981.50	1979 Apr 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M50	2443981.50	1979 Apr 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M47	2443988.50	1979 Apr 25	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M51	2443988.50	1979 Apr 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M52	2443995.50	1979 May 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M59	2443995.50	1979 May 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M53	2444002.50	1979 May 9	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M60	2444002.50	1979 May 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M150	2444004.50	1979 May 11	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M61	2444009.50	1979 May 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M54	2444009.50	1979 May 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M55	2444011.50	1979 May 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M62	2444011.50	1979 May 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M56	2444016.50	1979 May 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M63	2444016.50	1979 May 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M57	2444018.50	1979 May 25	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M58	2444023.50	1979 May 30	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M64	2444025.50	1979 Jun 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M72	2444025.50	1979 Jun 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M65	2444030.50	1979 Jun 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M73	2444030.50	1979 Jun 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M74	2444032.50	1979 Jun 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M66	2444032.50	1979 Jun 8	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M67	2444037.50	1979 Jun 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M75	2444037.50	1979 Jun 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M76	2444039.50	1979 Jun 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M68	2444039.50	1979 Jun 15	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M151	2444039.50	1979 Jun 15	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M69	2444044.50	1979 Jun 20	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M77	2444044.50	1979 Jun 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M152	2444046.50	1979 Jun 22	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M70	2444046.50	1979 Jun 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-M71	2444051.50	1979 Jun 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M78	2444051.50	1979 Jun 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M153	2444053.50	1979 Jun 29	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M79	2444053.50	1979 Jun 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M169	2444053.50	1979 Jun 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M80	2444058.50	1979 Jul 4	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M86	2444058.50	1979 Jul 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M87	2444060.50	1979 Jul 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M81	2444060.50	1979 Jul 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M154	2444060.50	1979 Jul 6	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M04	2444066.05	1979 Jul 11 1318	RH-200	-	MONEX-79	Meteo Chaff	-	-	-	SHAR	-	-	-	60	-	-
1979-M88	2444065.50	1979 Jul 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M89	2444067.50	1979 Jul 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M155	2444067.50	1979 Jul 13	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M82	2444067.50	1979 Jul 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M171	2444070.50	1979 Jul 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M83	2444074.50	1979 Jul 20	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M90	2444074.50	1979 Jul 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M91	2444079.50	1979 Jul 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M84	2444080.50	1979 Jul 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M85	2444081.50	1979 Jul 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M92	2444081.50	1979 Jul 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M93	2444086.50	1979 Aug 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M102	2444086.50	1979 Aug 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M103	2444088.50	1979 Aug 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M94	2444088.50	1979 Aug 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M95	2444093.50	1979 Aug 8	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M104	2444093.50	1979 Aug 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M105	2444095.50	1979 Aug 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M106	2444100.50	1979 Aug 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M96	2444101.50	1979 Aug 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M97	2444102.50	1979 Aug 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M107	2444102.50	1979 Aug 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M98	2444107.50	1979 Aug 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M108	2444107.50	1979 Aug 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M109	2444109.50	1979 Aug 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M99	2444109.50	1979 Aug 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M100	2444114.50	1979 Aug 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M110	2444114.50	1979 Aug 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M101	2444116.50	1979 Aug 31	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M111	2444116.50	1979 Aug 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M115	2444121.50	1979 Sep 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M112	2444121.50	1979 Sep 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M116	2444128.50	1979 Sep 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M172	2444128.50	1979 Sep 12	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M173	2444128.50	1979 Sep 12	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M113	2444135.50	1979 Sep 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M117	2444135.50	1979 Sep 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M114	2444142.50	1979 Sep 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M118	2444142.50	1979 Sep 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M156	2444143.50	1979 Sep 27	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M157	2444149.50	1979 Oct 3	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M119	2444149.50	1979 Oct 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M123	2444149.50	1979 Oct 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M120	2444156.50	1979 Oct 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M124	2444156.50	1979 Oct 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M125	2444161.50	1979 Oct 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M158	2444163.50	1979 Oct 17	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M121	2444163.50	1979 Oct 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M159	2444170.50	1979 Oct 24	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M122	2444170.50	1979 Oct 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M126	2444172.50	1979 Oct 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M160	2444177.50	1979 Oct 31	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M127	2444177.50	1979 Oct 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M174	2444177.50	1979 Oct 31	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M128	2444184.96	1979 Nov 7 1100	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M129	2444185.01	1979 Nov 7 1211	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M130	2444185.05	1979 Nov 7 1318	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M131	2444185.08	1979 Nov 7 1357	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M134	2444184.50	1979 Nov 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M135	2444191.50	1979 Nov 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M161	2444191.50	1979 Nov 14	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M132	2444192.50	1979 Nov 15	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M162	2444198.50	1979 Nov 21	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1979-M133	2444198.50	1979 Nov 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M136	2444200.50	1979 Nov 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M163	2444205.50	1979 Nov 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M137	2444205.50	1979 Nov 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M138	2444207.50	1979 Nov 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M143	2444212.50	1979 Dec 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M139	2444213.50	1979 Dec 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M140	2444219.50	1979 Dec 12	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M144	2444219.50	1979 Dec 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M141	2444226.50	1979 Dec 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1979-M145	2444226.50	1979 Dec 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1979-M142	2444233.50	1979 Dec 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-M146	2444233.50	1979 Dec 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M13	2444240.50	1980 Jan 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M14	2444242.50	1980 Jan 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M07	2444242.50	1980 Jan 4	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M08	2444247.50	1980 Jan 9	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M15	2444247.50	1980 Jan 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M16	2444249.50	1980 Jan 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M09	2444249.50	1980 Jan 11	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M17	2444254.50	1980 Jan 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M18	2444256.50	1980 Jan 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M19	2444261.50	1980 Jan 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M10	2444261.50	1980 Jan 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M11	2444263.50	1980 Jan 25	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M20	2444263.50	1980 Jan 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M12	2444268.50	1980 Jan 30	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M24	2444275.50	1980 Feb 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M21	2444282.50	1980 Feb 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M25	2444282.50	1980 Feb 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M26	2444285.50	1980 Feb 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M22	2444285.50	1980 Feb 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M02	2444285.94	1980 Feb 16 1030?	RH-200	-	-	Eclipse	-	-	-	CHAN	-	-	-	50?	-	-
1980-M04	2444286.94	1980 Feb 17 1030?	RH-200	-	-	Eclipse control	-	-	-	CHAN	-	-	-	70?	-	-
1980-M23	2444289.50	1980 Feb 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M27	2444290.50	1980 Feb 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M155	2444296.50	1980 Feb 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M151	2444296.50	1980 Feb 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M28	2444303.50	1980 Mar 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M29	2444317.50	1980 Mar 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M156	2444317.50	1980 Mar 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M157	2444324.50	1980 Mar 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M30	2444324.50	1980 Mar 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M31	2444331.50	1980 Apr 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M34	2444331.50	1980 Apr 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M35	2444338.50	1980 Apr 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M158	2444345.50	1980 Apr 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M32	2444345.50	1980 Apr 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M33	2444353.50	1980 Apr 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M36	2444360.50	1980 May 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M37	2444373.50	1980 May 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M38	2444380.50	1980 May 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M39	2444382.50	1980 May 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M40	2444382.50	1980 May 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M41	2444387.50	1980 May 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M145	2444389.50	1980 May 30	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1980-M42	2444389.50	1980 May 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M43	2444394.50	1980 Jun 4	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M50	2444394.50	1980 Jun 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M51	2444396.50	1980 Jun 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M44	2444396.50	1980 Jun 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M146	2444396.50	1980 Jun 6	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1980-M45	2444401.50	1980 Jun 11	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M52	2444401.50	1980 Jun 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M53	2444403.50	1980 Jun 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M46	2444403.50	1980 Jun 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M54	2444408.50	1980 Jun 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M47	2444408.50	1980 Jun 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M48	2444410.50	1980 Jun 20	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M49	2444417.50	1980 Jun 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M55	2444417.50	1980 Jun 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M56	2444422.50	1980 Jul 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M62	2444422.50	1980 Jul 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M63	2444424.50	1980 Jul 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M57	2444424.50	1980 Jul 4	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M64	2444429.50	1980 Jul 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M58	2444430.50	1980 Jul 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M65	2444431.50	1980 Jul 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M66	2444436.50	1980 Jul 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M67	2444438.50	1980 Jul 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M68	2444443.50	1980 Jul 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M59	2444443.50	1980 Jul 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M60	2444445.50	1980 Jul 25	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M159	2444445.50	1980 Jul 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M61	2444450.50	1980 Jul 30	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M160	2444450.50	1980 Jul 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M69	2444452.50	1980 Aug 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M77	2444452.50	1980 Aug 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M78	2444457.50	1980 Aug 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M70	2444457.50	1980 Aug 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M71	2444459.50	1980 Aug 8	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M79	2444459.50	1980 Aug 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M147	2444459.50	1980 Aug 8	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1980-M80	2444464.50	1980 Aug 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M72	2444465.50	1980 Aug 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M81	2444466.50	1980 Aug 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M73	2444467.50	1980 Aug 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M148	2444467.50	1980 Aug 16	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-M74	2444471.50	1980 Aug 20	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M82	2444471.50	1980 Aug 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M83	2444473.50	1980 Aug 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M149	2444473.50	1980 Aug 22	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1980-M75	2444473.50	1980 Aug 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M84	2444476.50	1980 Aug 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M153	2444478.50	1980 Aug 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M76	2444478.50	1980 Aug 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M152	2444480.50	1980 Aug 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M164	2444480.50	1980 Aug 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M150	2444481.50	1980 Aug 30	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1980-M94	2444483.50	1980 Sep 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M95	2444485.50	1980 Sep 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M85	2444485.50	1980 Sep 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M86	2444487.50	1980 Sep 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M96	2444487.50	1980 Sep 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M87	2444492.50	1980 Sep 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M97	2444492.50	1980 Sep 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M98	2444494.50	1980 Sep 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M88	2444494.50	1980 Sep 12	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M99	2444499.50	1980 Sep 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M89	2444499.50	1980 Sep 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M90	2444501.50	1980 Sep 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M100	2444501.50	1980 Sep 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M101	2444504.50	1980 Sep 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M91	2444504.50	1980 Sep 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M92	2444506.50	1980 Sep 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M102	2444506.50	1980 Sep 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M93	2444508.50	1980 Sep 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M165	2444508.50	1980 Sep 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M103	2444513.50	1980 Oct 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M112	2444513.50	1980 Oct 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M113	2444515.50	1980 Oct 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M104	2444515.50	1980 Oct 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M105	2444518.50	1980 Oct 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M114	2444518.50	1980 Oct 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M106	2444520.50	1980 Oct 8	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M107	2444522.50	1980 Oct 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M108	2444527.50	1980 Oct 15	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M115	2444527.50	1980 Oct 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M109	2444529.50	1980 Oct 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M116	2444529.50	1980 Oct 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M117	2444534.50	1980 Oct 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M110	2444534.50	1980 Oct 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M111	2444536.50	1980 Oct 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M118	2444536.50	1980 Oct 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M154	2444541.50	1980 Oct 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M161	2444541.50	1980 Oct 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M162	2444543.50	1980 Oct 31	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M163	2444543.50	1980 Oct 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M119	2444548.50	1980 Nov 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M128	2444548.50	1980 Nov 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M129	2444553.50	1980 Nov 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M120	2444553.50	1980 Nov 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M130	2444555.50	1980 Nov 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M131	2444557.50	1980 Nov 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M121	2444557.50	1980 Nov 14	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M122	2444560.50	1980 Nov 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M123	2444562.50	1980 Nov 19	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M132	2444562.50	1980 Nov 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M133	2444564.50	1980 Nov 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M124	2444564.50	1980 Nov 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M125	2444567.50	1980 Nov 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M134	2444567.50	1980 Nov 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M135	2444569.50	1980 Nov 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M126	2444569.50	1980 Nov 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M127	2444571.50	1980 Nov 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M136	2444571.50	1980 Nov 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M141	2444576.50	1980 Dec 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M137	2444583.50	1980 Dec 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M142	2444583.50	1980 Dec 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M143	2444590.50	1980 Dec 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M138	2444590.50	1980 Dec 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M139	2444597.50	1980 Dec 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M144	2444597.50	1980 Dec 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1980-M168	2444597.50	1980 Dec 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1980-M140	2444604.50	1980 Dec 31	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M19	2444606.50	1981 Jan 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M27	2444606.50	1981 Jan 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M20	2444611.50	1981 Jan 7	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M28	2444611.50	1981 Jan 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M29	2444613.50	1981 Jan 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M21	2444613.50	1981 Jan 9	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M30	2444618.50	1981 Jan 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M31	2444620.50	1981 Jan 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M22	2444620.50	1981 Jan 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-M23	2444625.50	1981 Jan 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M32	2444625.50	1981 Jan 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M33	2444627.50	1981 Jan 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M24	2444627.50	1981 Jan 23	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M25	2444632.50	1981 Jan 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M34	2444632.50	1981 Jan 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M26	2444634.50	1981 Jan 30	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M35	2444634.50	1981 Jan 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M72	2444639.50	1981 Feb 4	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M40	2444639.50	1981 Feb 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M36	2444640.50	1981 Feb 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M37	2444646.50	1981 Feb 11	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M41	2444646.50	1981 Feb 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M42	2444648.50	1981 Feb 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M84	2444653.50	1981 Feb 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M38	2444653.50	1981 Feb 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M73	2444654.67	1981 Feb 19 0412	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M74	2444654.71	1981 Feb 19 0502	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M75	2444654.74	1981 Feb 19 0550	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M76	2444654.78	1981 Feb 19 0637	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M77	2444654.80	1981 Feb 19 0719	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M78	2444655.71	1981 Feb 20 0500	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M79	2444655.74	1981 Feb 20 0545	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M80	2444655.77	1981 Feb 20 0634	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M81	2444655.82	1981 Feb 20 0734	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M82	2444656.50	1981 Feb 21	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1981-M88	2444660.50	1981 Feb 25	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M39	2444661.50	1981 Feb 26	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M43	2444668.50	1981 Mar 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M44	2444674.50	1981 Mar 11	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M45	2444681.50	1981 Mar 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M46	2444683.50	1981 Mar 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M47	2444688.50	1981 Mar 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M48	2444695.50	1981 Apr 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M54	2444695.50	1981 Apr 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M49	2444696.50	1981 Apr 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M50	2444702.50	1981 Apr 8	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M55	2444702.50	1981 Apr 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M56	2444709.50	1981 Apr 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M89	2444709.50	1981 Apr 15	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M51	2444710.50	1981 Apr 16	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M52	2444716.50	1981 Apr 22	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M57	2444718.50	1981 Apr 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M53	2444723.50	1981 Apr 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M58	2444730.50	1981 May 6	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M59	2444737.50	1981 May 13	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M60	2444751.50	1981 May 27	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M61	2444753.50	1981 May 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M90	2444753.50	1981 May 29	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M62	2444730.50	1981 May 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M63	2444732.50	1981 May 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M64	2444737.50	1981 May 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M65	2444739.50	1981 May 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M66	2444744.50	1981 May 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M67	2444746.50	1981 May 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M85	2444751.50	1981 May 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M86	2444753.50	1981 May 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M68	2444758.50	1981 Jun 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M69	2444760.50	1981 Jun 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M70	2444765.50	1981 Jun 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M71	2444772.50	1981 Jun 17	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1981-M87	2444772.50	1981 Jun 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1981-M83	2444969.50	1981 Dec 31	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M40	2444991.74	1982 Jan 22 0540	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M41	2444991.77	1982 Jan 22 0630	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M42	2444996.50	1982 Jan 27	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M01	2445000.50	1982 Feb	RH-200	-	-	Thermistor test	-	-	-	TERLS	-	-	-	70?	-	-
1982-M43	2445032.08	1982 Mar 3 1352	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M44	2445032.18	1982 Mar 3 1616	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M02	2445028.50	1982 Mar?	RH-200	-	-	Thermistor test	-	-	-	TERLS	-	-	-	70?	-	-
1982-M03	2445028.50	1982 Mar?	RH-200	-	-	Thermistor test	-	-	-	TERLS	-	-	-	70?	-	-
1982-M07	2445031.50	1982 Mar 3	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M10	2445033.50	1982 Mar 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M11	2445038.50	1982 Mar 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M08	2445038.50	1982 Mar 10	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M12	2445045.50	1982 Mar 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M09	2445046.50	1982 Mar 18	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M46	2445052.50	1982 Mar 24	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M13	2445054.50	1982 Mar 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M14	2445059.50	1982 Mar 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M04	2445059.50	1982 Apr	RH-200	-	-	Thermistor test	-	-	-	TERLS	-	-	-	70?	-	-
1982-M15	2445060.50	1982 Apr 1	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M45	2445065.50	1982 Apr 6	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1982-M18	2445066.50	1982 Apr 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M16	2445066.50	1982 Apr 7	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M17	2445080.50	1982 Apr 21	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-M19	2445073.50	1982 Apr 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M20	2445080.50	1982 Apr 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M47	2445087.50	1982 Apr 28	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M21	2445087.50	1982 Apr 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M37	2445094.50	1982 May 5	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M38	2445094.50	1982 May 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M39	2445101.50	1982 May 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M35	2445108.50	1982 May 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M48	2445115.50	1982 May 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M36	2445122.50	1982 Jun 2	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M52	2445129.50	1982 Jun 9	RH-200	-	-	-	-	-	-	SHAR	-	-	-	60?	-	-
1982-M49	2445129.50	1982 Jun 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M22	2445255.50	1982 Oct 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M23	2445269.50	1982 Oct 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M24	2445276.50	1982 Nov 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M25	2445283.50	1982 Nov 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M26	2445285.50	1982 Nov 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M27	2445290.50	1982 Nov 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M28	2445292.50	1982 Nov 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M29	2445297.50	1982 Nov 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M30	2445299.50	1982 Nov 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M31	2445304.50	1982 Dec 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M32	2445311.50	1982 Dec 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M33	2445318.50	1982 Dec 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1982-M34	2445332.50	1982 Dec 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M04	2445339.50	1983 Jan 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M05	2445346.50	1983 Jan 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M06	2445353.50	1983 Jan 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M07	2445362.50	1983 Jan 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M08	2445367.50	1983 Feb 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M09	2445374.50	1983 Feb 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M10	2445381.50	1983 Feb 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M11	2445390.50	1983 Feb 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M12	2445395.50	1983 Mar 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M13	2445402.50	1983 Mar 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M14	2445416.50	1983 Mar 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M15	2445423.50	1983 Mar 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M16	2445430.50	1983 Apr 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M17	2445439.50	1983 Apr 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M18	2445458.50	1983 May 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M19	2445465.50	1983 May 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M20	2445472.50	1983 May 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M21	2445479.50	1983 May 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M22	2445486.50	1983 Jun 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M71	2445488.50	1983 Jun 3	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M72	2445489.50	1983 Jun 4	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M23	2445493.50	1983 Jun 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M24	2445500.50	1983 Jun 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M25	2445507.50	1983 Jun 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M26	2445514.50	1983 Jun 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M73	2445521.50	1983 Jul 6	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M27	2445521.50	1983 Jul 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M28	2445528.50	1983 Jul 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M74	2445528.50	1983 Jul 13	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M29	2445535.50	1983 Jul 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M75	2445535.50	1983 Jul 20	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M76	2445542.50	1983 Jul 27	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M30	2445542.50	1983 Jul 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M77	2445549.50	1983 Aug 3	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M31	2445549.50	1983 Aug 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M32	2445556.50	1983 Aug 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M78	2445556.50	1983 Aug 10	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M79	2445563.50	1983 Aug 17	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M33	2445563.50	1983 Aug 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M34	2445565.50	1983 Aug 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M35	2445570.50	1983 Aug 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M80	2445570.50	1983 Aug 24	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M36	2445572.50	1983 Aug 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M81	2445577.50	1983 Aug 31	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M37	2445577.50	1983 Aug 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M38	2445579.50	1983 Sep 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M82	2445584.50	1983 Sep 7	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M39	2445586.50	1983 Sep 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M40	2445591.50	1983 Sep 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M83	2445592.50	1983 Sep 15	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M41	2445598.50	1983 Sep 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M42	2445600.50	1983 Sep 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M84	2445605.50	1983 Sep 28	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M43	2445605.50	1983 Sep 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M44	2445607.50	1983 Sep 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M45	2445612.50	1983 Oct 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M46	2445614.50	1983 Oct 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M85	2445626.50	1983 Oct 19	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M86	2445635.50	1983 Oct 28	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M47	2445640.50	1983 Nov 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M48	2445642.50	1983 Nov 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-M49	2445647.50	1983 Nov 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M50	2445649.50	1983 Nov 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M51	2445654.50	1983 Nov 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M87	2445659.50	1983 Nov 21	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M88	2445660.50	1983 Nov 22	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M52	2445661.50	1983 Nov 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M89	2445663.50	1983 Nov 25	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M90	2445668.50	1983 Nov 30	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M53	2445668.50	1983 Nov 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M91	2445669.50	1983 Dec 1	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M92	2445670.50	1983 Dec 2	RH-200	-	-	-	-	-	-	TERLS	-	-	-	60?	-	-
1983-M54	2445675.50	1983 Dec 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M55	2445682.50	1983 Dec 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M56	2445689.50	1983 Dec 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1983-M57	2445696.50	1983 Dec 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M95	2445703.50	1984 Jan 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M96	2445710.50	1984 Jan 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M97	2445717.50	1984 Jan 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M98	2445726.50	1984 Jan 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M40	2445731.50	1984 Feb 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M41	2445738.50	1984 Feb 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M42	2445745.50	1984 Feb 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M43	2445752.50	1984 Feb 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M44	2445759.50	1984 Feb 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M45	2445766.50	1984 Mar 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M46	2445773.50	1984 Mar 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M47	2445780.50	1984 Mar 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M48	2445787.50	1984 Mar 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M49	2445794.50	1984 Apr 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M50	2445801.50	1984 Apr 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M51	2445809.50	1984 Apr 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M52	2445815.50	1984 Apr 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M99	2445822.50	1984 May 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M100	2445829.50	1984 May 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M101	2445836.50	1984 May 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M04	2445844.03	1984 May 23 1245	RH-200	-	RH-200-243	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	64	-	-
1984-M05	2445844.03	1984 May 23 1250	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	57	-	-
1984-M06	2445844.03	1984 May 23 1248	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	60?	-	-
1984-M07	2445844.08	1984 May 23 1354	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	61	-	-
1984-M08	2445846.02	1984 May 25 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	68	-	-
1984-A41	2445846.02	1984 May 25 1230	RH-200	-	RH-200-247	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	42	-	-
1984-M09	2445846.07	1984 May 25 1335	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	69	-	-
1984-M10	2445846.07	1984 May 25 1336	RH-200	-	RH-200-244	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	67	-	-
1984-M11	2445848.02	1984 May 27 1230	RH-200	-	RH-200-245	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	60?	-	-
1984-M12	2445848.02	1984 May 27 1234	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	64	-	-
1984-M13	2445848.03	1984 May 27 1245	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	65	-	-
1984-M14	2445848.06	1984 May 27 1330	RH-200	-	RH-200-246	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	64	-	-
1984-M15	2445850.02	1984 May 29 1230	RH-200	-	RH-200-248	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	72	-	-
1984-M16	2445850.03	1984 May 29 1237	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	66	-	-
1984-M17	2445850.03	1984 May 29 1246	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	68	-	-
1984-M18	2445852.02	1984 May 31 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	59	-	-
1984-M19	2445852.02	1984 May 31 1230	RH-200	-	RH-200-249	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	68	-	-
1984-M20	2445852.02	1984 May 31 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	69	-	-
1984-M21	2445854.02	1984 Jun 2 1230	RH-200	-	RH-200-250	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	55	-	-
1984-M22	2445854.03	1984 Jun 2 1240	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	62	-	-
1984-M23	2445854.08	1984 Jun 2 1357	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	68	-	-
1984-M24	2445856.02	1984 Jun 4 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	72	-	-
1984-M25	2445856.03	1984 Jun 4 1240	RH-200	-	RH-200-252	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	73	-	-
1984-M26	2445856.07	1984 Jun 4 1339	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	60?	-	-
1984-M27	2445856.10	1984 Jun 4 1420	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	67	-	-
1984-M28	2445858.02	1984 Jun 6 1230	RH-200	-	RH-200-253	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	61	-	-
1984-M29	2445858.03	1984 Jun 6 1250	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	70	-	-
1984-M30	2445860.02	1984 Jun 8 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	58	-	-
1984-M31	2445860.02	1984 Jun 8 1233	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	64	-	-
1984-M32	2445860.04	1984 Jun 8 1301	RH-200	-	RH-200-254	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	72	-	-
1984-M33	2445862.03	1984 Jun 10 1240	RH-200	-	RH-200-255	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	72	-	-
1984-M34	2445862.03	1984 Jun 10 1245	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	62	-	-
1984-M35	2445862.04	1984 Jun 10 1301	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	60	-	-
1984-M36	2445864.02	1984 Jun 12 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	60?	-	-
1984-M37	2445864.02	1984 Jun 12 1230	RH-200	-	RH-200-251	Eq. Wave Campaign I	Meteo Chaff	-	-	SHAR	-	-	-	72	-	-
1984-M38	2445864.02	1984 Jun 12 1230	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	TERLS	-	-	-	59	-	-
1984-M39	2445864.08	1984 Jun 12 1350	RH-200	-	-	Eq. Wave Campaign I	Meteo Chaff	-	-	CHAN	-	-	-	66	-	-
1984-M102	2445871.50	1984 Jun 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M103	2445878.50	1984 Jun 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M53	2445886.50	1984 Jul 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M54	2445892.50	1984 Jul 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M55	2445899.50	1984 Jul 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M104	2445906.50	1984 Jul 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M56	2445913.50	1984 Aug 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M57	2445920.50	1984 Aug 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M58	2445928.50	1984 Aug 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M59	2445934.50	1984 Aug 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M88	2445942.50	1984 Aug 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M89	2445948.50	1984 Sep 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M90	2445955.50	1984 Sep 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M91	2445962.50	1984 Sep 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-M92	2445969.50	1984 Sep 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M93	2445976.50	1984 Oct 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M94	2445983.50	1984 Oct 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M67	2445990.50	1984 Oct 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M68	2445998.50	1984 Oct 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M69	2446011.50	1984 Nov 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M70	2446018.50	1984 Nov 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M71	2446025.50	1984 Nov 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M72	2446032.50	1984 Nov 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M73	2446039.50	1984 Dec 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M74	2446046.50	1984 Dec 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M75	2446053.50	1984 Dec 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1984-M76	2446060.50	1984 Dec 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M02	2446067.50	1985 Jan 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M03	2446074.50	1985 Jan 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M04	2446081.50	1985 Jan 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M05	2446089.04	1985 Jan 23 1300	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M06	2446089.08	1985 Jan 23 1400	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M34	2446096.50	1985 Jan 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M07	2446102.50	1985 Feb 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M08	2446109.50	1985 Feb 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M09	2446116.50	1985 Feb 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M10	2446123.50	1985 Feb 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M11	2446131.50	1985 Mar 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M12	2446137.50	1985 Mar 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M13	2446144.50	1985 Mar 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M14	2446151.50	1985 Mar 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M15	2446159.50	1985 Apr 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M16	2446166.06	1985 Apr 10 1330	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M17	2446166.09	1985 Apr 10 1415	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M18	2446172.50	1985 Apr 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M35	2446179.50	1985 Apr 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M19	2446186.50	1985 May 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M20	2446193.50	1985 May 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M21	2446200.50	1985 May 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M22	2446207.50	1985 May 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M23	2446214.50	1985 May 29	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M24	2446221.50	1985 Jun 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M25	2446229.50	1985 Jun 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M26	2446235.50	1985 Jun 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M27	2446242.50	1985 Jun 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M28	2446249.50	1985 Jul 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M29	2446256.50	1985 Jul 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M30	2446263.50	1985 Jul 17	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M31	2446270.50	1985 Jul 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M32	2446277.50	1985 Jul 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M33	2446298.50	1985 Aug 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M37	2446312.50	1985 Sep 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M38	2446319.50	1985 Sep 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M39	2446327.50	1985 Sep 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M40	2446333.50	1985 Sep 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M41	2446341.50	1985 Oct 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M42	2446347.50	1985 Oct 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M43	2446362.50	1985 Oct 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M44	2446375.50	1985 Nov 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M45	2446382.50	1985 Nov 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M46	2446390.50	1985 Nov 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M36	2446397.50	1985 Nov 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M47	2446403.50	1985 Dec 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M48	2446410.50	1985 Dec 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M49	2446417.50	1985 Dec 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1985-M50	2446425.50	1985 Dec 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M46	2446431.50	1986 Jan 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M47	2446438.50	1986 Jan 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M48	2446445.50	1986 Jan 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M01	2446445.50	1986 Jan 15	RH-200	-	RH-200-256	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M02	2446446.50	1986 Jan 16	RH-200	-	RH-200-257	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M03	2446447.50	1986 Jan 17	RH-200	-	RH-200-258	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M04	2446448.50	1986 Jan 18	RH-200	-	RH-200-259	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M05	2446449.50	1986 Jan 19	RH-200	-	RH-200-260	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M06	2446450.50	1986 Jan 20	RH-200	-	RH-200-261	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M07	2446451.50	1986 Jan 21	RH-200	-	RH-200-262	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M08	2446452.50	1986 Jan 22	RH-200	-	RH-200-263	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M49	2446452.50	1986 Jan 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M09	2446453.50	1986 Jan 23	RH-200	-	RH-200-264	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M101	2446453.50	1986 Jan 23	RH-200	-	RH-200-265	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M102	2446454.50	1986 Jan 24	RH-200	-	RH-200-266	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M10	2446454.50	1986 Jan 24	RH-200	-	RH-200-267	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M11	2446455.50	1986 Jan 25	RH-200	-	RH-200-268	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M103	2446455.50	1986 Jan 25	RH-200	-	RH-200-269	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M104	2446456.50	1986 Jan 26	RH-200	-	RH-200-271	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M12	2446456.50	1986 Jan 26	RH-200	-	RH-200-272	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M13	2446457.50	1986 Jan 27	RH-200	-	RH-200-273	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M14	2446458.50	1986 Jan 28	RH-200	-	RH-200-274	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M105	2446458.50	1986 Jan 28	RH-200	-	RH-200-276	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M15	2446459.50	1986 Jan 29	RH-200	-	RH-200-277	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-M16	2446460.50	1986 Jan 30	RH-200	-	RH-200-278	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M50	2446460.50	1986 Jan 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M17	2446461.50	1986 Jan 31	RH-200	-	RH-200-279	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M18	2446462.50	1986 Feb 1	RH-200	-	RH-200-280	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M19	2446463.50	1986 Feb 2	RH-200	-	RH-200-281	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M20	2446464.50	1986 Feb 3	RH-200	-	RH-200-275	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M21	2446465.50	1986 Feb 4	RH-200	-	RH-200-282	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M22	2446466.50	1986 Feb 5	RH-200	-	RH-200-283	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M51	2446466.50	1986 Feb 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M23	2446467.50	1986 Feb 6	RH-200	-	RH-200-284	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M24	2446468.50	1986 Feb 7	RH-200	-	RH-200-285	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M25	2446469.50	1986 Feb 8	RH-200	-	RH-200-286	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M26	2446470.50	1986 Feb 9	RH-200	-	RH-200-287	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M106	2446470.50	1986 Feb 9	RH-200	-	RH-200-288	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M27	2446471.50	1986 Feb 10	RH-200	-	RH-200-289	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M28	2446472.50	1986 Feb 11	RH-200	-	RH-200-290	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M29	2446473.50	1986 Feb 12	RH-200	-	RH-200-291	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M107	2446473.50	1986 Feb 12	RH-200	-	RH-200-292	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M52	2446473.50	1986 Feb 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M30	2446474.50	1986 Feb 13	RH-200	-	RH-200-293	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M31	2446475.50	1986 Feb 14	RH-200	-	RH-200-295	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M32	2446476.50	1986 Feb 15	RH-200	-	RH-200-296	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M33	2446477.50	1986 Feb 16	RH-200	-	RH-200-297	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M34	2446478.50	1986 Feb 17	RH-200	-	RH-200-298	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M35	2446479.50	1986 Feb 18	RH-200	-	RH-200-299	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M53	2446480.50	1986 Feb 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M36	2446480.50	1986 Feb 19	RH-200	-	RH-200-300	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M37	2446481.50	1986 Feb 20	RH-200	-	RH-200-301	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M38	2446482.50	1986 Feb 21	RH-200	-	RH-200-303	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M39	2446483.50	1986 Feb 22	RH-200	-	RH-200-304	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M40	2446484.50	1986 Feb 23	RH-200	-	RH-200-270	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M41	2446485.50	1986 Feb 24	RH-200	-	RH-200-294	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M108	2446485.50	1986 Feb 24	RH-200	-	RH-200-302	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M42	2446486.50	1986 Feb 25	RH-200	-	RH-200-307	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M43	2446487.50	1986 Feb 26	RH-200	-	RH-200-305	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M44	2446488.50	1986 Feb 27	RH-200	-	RH-200-306	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M87	2446488.50	1986 Feb 27	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M45	2446489.50	1986 Feb 28	RH-200	-	RH-200-308	Eq. Wave Campaign II	Meteo Chaff	-	-	SHAR	-	-	-	70?	-	-
1986-M88	2446494.50	1986 Mar 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M89	2446501.50	1986 Mar 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M90	2446508.50	1986 Mar 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M91	2446515.50	1986 Mar 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M92	2446522.50	1986 Apr 2	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M93	2446529.50	1986 Apr 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M94	2446536.50	1986 Apr 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M95	2446543.50	1986 Apr 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M96	2446550.50	1986 Apr 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M54	2446557.50	1986 May 7	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M55	2446564.50	1986 May 14	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M97	2446571.50	1986 May 21	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M98	2446578.50	1986 May 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M56	2446585.50	1986 Jun 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M57	2446592.50	1986 Jun 11	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M58	2446600.50	1986 Jun 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M59	2446606.50	1986 Jun 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M60	2446614.50	1986 Jul 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M61	2446620.50	1986 Jul 9	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M62	2446627.50	1986 Jul 16	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M63	2446634.50	1986 Jul 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M64	2446641.50	1986 Jul 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M65	2446648.50	1986 Aug 6	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M66	2446655.50	1986 Aug 13	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M67	2446662.50	1986 Aug 20	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M99	2446670.50	1986 Aug 28	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M109	2446677.50	1986 Sep 4	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M68	2446677.50	1986 Sep 4	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M110	2446678.50	1986 Sep 5	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
1986-M69	2446683.50	1986 Sep 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M70	2446691.50	1986 Sep 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M71	2446698.50	1986 Sep 25	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M72	2446704.50	1986 Oct 1	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M73	2446711.50	1986 Oct 8	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M74	2446718.50	1986 Oct 15	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M75	2446725.50	1986 Oct 22	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M76	2446726.50	1986 Oct 23	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M77	2446733.50	1986 Oct 30	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M78	2446739.50	1986 Nov 5	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M79	2446746.50	1986 Nov 12	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M80	2446753.50	1986 Nov 19	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M81	2446760.50	1986 Nov 26	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M82	2446767.50	1986 Dec 3	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M83	2446774.50	1986 Dec 10	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M84	2446782.50	1986 Dec 18	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M85	2446788.50	1986 Dec 24	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1986-M86	2446795.50	1986 Dec 31	RH-200	-	-	-	-	-	-	CHAN	-	-	-	60?	-	-
1987-M01	2446802.50	1987 Jan 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-M02	2446809.50	1987 Jan 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M03	2446816.50	1987 Jan 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M04	2446823.50	1987 Jan 28	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M05	2446830.50	1987 Feb 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M06	2446837.50	1987 Feb 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M07	2446844.50	1987 Feb 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M08	2446851.50	1987 Feb 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M09	2446858.50	1987 Mar 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M10	2446865.50	1987 Mar 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M11	2446872.50	1987 Mar 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M12	2446879.50	1987 Mar 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M13	2446886.50	1987 Apr 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M14	2446893.50	1987 Apr 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M15	2446900.50	1987 Apr 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M16	2446907.50	1987 Apr 22	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M17	2446914.50	1987 Apr 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M18	2446921.50	1987 May 6	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M19	2446929.50	1987 May 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M20	2446935.50	1987 May 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M21	2446942.50	1987 May 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M22	2446949.50	1987 Jun 3	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M23	2446956.50	1987 Jun 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M24	2446963.50	1987 Jun 17	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M25	2446970.50	1987 Jun 24	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M26	2446977.50	1987 Jul 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M27	2446984.50	1987 Jul 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M28	2446991.50	1987 Jul 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M29	2446998.50	1987 Jul 22	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M30	2447005.50	1987 Jul 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M31	2447012.50	1987 Aug 5	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M32	2447019.50	1987 Aug 12	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M33	2447026.50	1987 Aug 19	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M34	2447033.50	1987 Aug 26	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M35	2447040.50	1987 Sep 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M36	2447047.50	1987 Sep 9	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M37	2447054.50	1987 Sep 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M38	2447061.50	1987 Sep 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M39	2447068.50	1987 Sep 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M40	2447075.50	1987 Oct 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M42	2447082.50	1987 Oct 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M43	2447089.50	1987 Oct 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M53	2447096.50	1987 Oct 28	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M44	2447103.50	1987 Nov 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M45	2447110.50	1987 Nov 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M46	2447117.50	1987 Nov 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M47	2447124.50	1987 Nov 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M48	2447131.50	1987 Dec 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M49	2447138.50	1987 Dec 9	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M50	2447145.50	1987 Dec 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M51	2447152.50	1987 Dec 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1987-M52	2447159.50	1987 Dec 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M54	2447166.50	1988 Jan 6	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M55	2447173.50	1988 Jan 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M56	2447180.50	1988 Jan 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M57	2447188.50	1988 Jan 28	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M58	2447194.50	1988 Feb 3	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M59	2447201.50	1988 Feb 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M60	2447208.50	1988 Feb 17	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M61	2447215.50	1988 Feb 24	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M62	2447222.50	1988 Mar 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M63	2447229.50	1988 Mar 9	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M64	2447236.50	1988 Mar 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M65	2447243.50	1988 Mar 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M66	2447250.50	1988 Mar 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M67	2447257.50	1988 Apr 6	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M68	2447264.50	1988 Apr 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M69	2447271.50	1988 Apr 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M70	2447278.50	1988 Apr 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M71	2447292.50	1988 May 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M72	2447306.50	1988 May 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M07	2447312.50	1988 May 31	RH-200	-	Daily to Jul 12	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M73	2447313.50	1988 Jun 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M08	2447313.50	1988 Jun 1	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M09	2447314.50	1988 Jun 2	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M10	2447315.50	1988 Jun 3	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M11	2447316.50	1988 Jun 4	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M12	2447317.50	1988 Jun 5	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M13	2447318.50	1988 Jun 6	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M14	2447319.50	1988 Jun 7	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M15	2447320.50	1988 Jun 8	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M74	2447320.50	1988 Jun 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M16	2447321.50	1988 Jun 9	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M17	2447322.50	1988 Jun 10	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M18	2447323.50	1988 Jun 11	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M19	2447324.50	1988 Jun 12	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M20	2447325.50	1988 Jun 13	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-M21	2447326.50	1988 Jun 14	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M22	2447327.50	1988 Jun 15	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M75	2447327.50	1988 Jun 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M23	2447328.50	1988 Jun 16	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M24	2447329.50	1988 Jun 17	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M25	2447330.50	1988 Jun 18	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M26	2447331.50	1988 Jun 19	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M27	2447332.50	1988 Jun 20	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M28	2447333.50	1988 Jun 21	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M29	2447334.50	1988 Jun 22	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M76	2447334.50	1988 Jun 22	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M30	2447335.50	1988 Jun 23	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M31	2447336.50	1988 Jun 24	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M32	2447337.50	1988 Jun 25	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M33	2447338.50	1988 Jun 26	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M34	2447339.50	1988 Jun 27	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M35	2447340.50	1988 Jun 28	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M36	2447341.50	1988 Jun 29	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M77	2447341.50	1988 Jun 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M37	2447342.50	1988 Jun 30	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M38	2447343.50	1988 Jul 1	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M39	2447344.50	1988 Jul 2	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M40	2447345.50	1988 Jul 3	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M41	2447346.50	1988 Jul 4	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M42	2447347.50	1988 Jul 5	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M43	2447348.50	1988 Jul 6	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M44	2447349.50	1988 Jul 7	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M78	2447349.50	1988 Jul 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M45	2447350.50	1988 Jul 8	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M46	2447351.50	1988 Jul 9	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M47	2447352.50	1988 Jul 10	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M48	2447353.50	1988 Jul 11	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M49	2447354.50	1988 Jul 12	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
1988-M79	2447355.50	1988 Jul 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M80	2447362.50	1988 Jul 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M81	2447369.50	1988 Jul 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M82	2447376.50	1988 Aug 3	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M83	2447383.50	1988 Aug 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M84	2447390.50	1988 Aug 17	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M85	2447399.50	1988 Aug 26	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M86	2447404.50	1988 Aug 31	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M87	2447411.50	1988 Sep 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M88	2447418.50	1988 Sep 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M89	2447425.50	1988 Sep 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M90	2447432.50	1988 Sep 28	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M91	2447439.50	1988 Oct 5	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M92	2447446.50	1988 Oct 12	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M93	2447460.50	1988 Oct 26	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M94	2447467.50	1988 Nov 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M95	2447475.50	1988 Nov 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M96	2447481.50	1988 Nov 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M97	2447489.50	1988 Nov 24	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M98	2447495.50	1988 Nov 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M99	2447502.50	1988 Dec 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M100	2447509.50	1988 Dec 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M101	2447516.50	1988 Dec 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1988-M102	2447524.50	1988 Dec 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M13	2447530.50	1989 Jan 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M14	2447544.50	1989 Jan 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M15	2447551.50	1989 Jan 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M16	2447558.50	1989 Feb 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M17	2447565.50	1989 Feb 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M18	2447572.50	1989 Feb 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M59	2447577.50	1989 Feb 20	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
1989-M19	2447579.50	1989 Feb 22	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M20	2447586.50	1989 Mar 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M21	2447593.50	1989 Mar 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M22	2447600.50	1989 Mar 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M23	2447607.50	1989 Mar 22	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M24	2447614.50	1989 Mar 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M25	2447621.50	1989 Apr 5	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M26	2447629.50	1989 Apr 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M27	2447635.50	1989 Apr 19	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M28	2447642.50	1989 Apr 26	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M29	2447649.50	1989 May 3	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M30	2447663.50	1989 May 17	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M31	2447671.50	1989 May 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M32	2447677.50	1989 May 31	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M33	2447684.50	1989 Jun 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M34	2447691.50	1989 Jun 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M35	2447698.50	1989 Jun 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M36	2447705.50	1989 Jun 28	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M37	2447712.50	1989 Jul 5	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M38	2447726.50	1989 Jul 19	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M39	2447740.50	1989 Aug 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M60	2447741.50	1989 Aug 3	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-M61	2447742.50	1989 Aug 4	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
1989-M40	2447754.50	1989 Aug 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M41	2447761.50	1989 Aug 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M42	2447768.50	1989 Aug 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M43	2447775.50	1989 Sep 6	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M44	2447782.50	1989 Sep 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M45	2447789.50	1989 Sep 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M46	2447796.50	1989 Sep 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M47	2447803.50	1989 Oct 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M48	2447810.50	1989 Oct 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M49	2447817.50	1989 Oct 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M50	2447824.50	1989 Oct 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M51	2447831.50	1989 Nov 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M62	2447837.50	1989 Nov 7	RH-200	-	RH-200	ABR-V	-	-	-	SHAR	-	-	-	60?	-	-
1989-M63	2447837.50	1989 Nov 7	RH-200	-	RH-200	ABR-E	-	-	-	SHAR	-	-	-	60?	-	-
1989-M52	2447845.50	1989 Nov 15	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M53	2447853.50	1989 Nov 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M54	2447859.50	1989 Nov 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M55	2447867.50	1989 Dec 7	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M56	2447874.50	1989 Dec 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M64	2447879.50	1989 Dec 19	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1989-M65	2447880.50	1989 Dec 20	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1989-M57	2447881.50	1989 Dec 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1989-M58	2447887.50	1989 Dec 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M18	2447894.50	1990 Jan 3	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M19	2447901.50	1990 Jan 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M20	2447908.50	1990 Jan 17	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M21	2447915.50	1990 Jan 24	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-S32	2447918.06	1990 Jan 26 1325	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	83	-	-
1990-M01	2447921.04	1990 Jan 29 1300	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	76	-	-
1990-M02	2447923.05	1990 Jan 31 1310	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	78	-	-
1990-M03	2447925.04	1990 Feb 2 1300	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	75	-	-
1990-M04	2447928.04	1990 Feb 5 1300	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	78	-	-
1990-M05	2447930.06	1990 Feb 7 1320	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	52	-	-
1990-M06	2447932.04	1990 Feb 9 1300	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	73	-	-
1990-M07	2447935.05	1990 Feb 12 1307	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	73	-	-
1990-M08	2447937.05	1990 Feb 14 1305	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	77	-	-
1990-M09	2447939.06	1990 Feb 16 1323	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	77	-	-
1990-M10	2447942.05	1990 Feb 19 1308	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	57	-	-
1990-S43	2447944.08	1990 Feb 21 1359	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	80	-	-
1990-M11	2447946.08	1990 Feb 23 1350	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	77	-	-
1990-S49	2447949.08	1990 Feb 26 1355	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	80	-	-
1990-M12	2447951.05	1990 Feb 28 1305	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	77	-	-
1990-M13	2447953.05	1990 Mar 2 1305	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	72	-	-
1990-M14	2447956.05	1990 Mar 5 1305	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	76	-	-
1990-M15	2447958.04	1990 Mar 7 1300	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	79	-	-
1990-M16	2447960.05	1990 Mar 9 1315	RH-200	-	-	DYANA Chaff	-	-	-	CHAN	-	-	-	77	-	-
1990-M22	2447964.50	1990 Mar 14	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M23	2447971.50	1990 Mar 21	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M24	2447979.50	1990 Mar 29	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M25	2447985.50	1990 Apr 4	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M26	2447993.50	1990 Apr 12	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M27	2447999.50	1990 Apr 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M28	2448006.50	1990 Apr 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M29	2448013.50	1990 May 2	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M30	2448021.50	1990 May 10	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M44	2448026.50	1990 May 15	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1990-M45	2448027.50	1990 May 16	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1990-M46	2448027.50	1990 May 16	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1990-M47	2448027.50	1990 May 16	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1990-M31	2448027.50	1990 May 16	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M32	2448034.50	1990 May 23	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M33	2448041.50	1990 May 30	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M34	2448048.50	1990 Jun 6	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M35	2448055.50	1990 Jun 13	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M36	2448062.50	1990 Jun 20	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M37	2448069.50	1990 Jun 27	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M38	2448077.50	1990 Jul 5	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M39	2448083.50	1990 Jul 11	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M40	2448090.50	1990 Jul 18	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M41	2448097.50	1990 Jul 25	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M42	2448104.50	1990 Aug 1	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1990-M43	2448111.50	1990 Aug 8	RH-200	-	-	Meteo Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1992-M03	2448909.50	1992 Oct 14	RH-200	?	-	ABR 200 (I)	-	-	-	SHAR	-	-	-	70?	-	-
1992-M04	2448914.50	1992 Oct 19	RH-200	?	-	ABR 200 (I)	-	-	-	SHAR	-	-	-	70?	-	-
1993-M01	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M02	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M03	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M04	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M05	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M06	2448987.50	1993	RH-200	-	-	Chaff	-	-	-	CHAN	-	-	-	70?	-	-
1993-M08	2449075.50	1993 Mar 29	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1993-M09	2449075.50	1993 Mar 29	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1993-M10	2449076.50	1993 Mar 30	RH-200	-	RH-200	SSV	-	-	-	SHAR	-	-	-	60?	-	-
1994-M02	2449371.50	1994 Jan 19	RH-200	-	RH-200	BBT	-	-	-	SHAR	-	-	-	60?	-	-
1994-M03	2449372.50	1994 Jan 20	RH-200	-	RH-200	BBT	-	-	-	SHAR	-	-	-	60?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1996-M05	2450365.50	1996 Oct 9	RH-200	-	RH-200	MONEX	-	-	-	SHAR	-	-	-	60?	-	-
1996-M06	2450366.50	1996 Oct 10	RH-200	-	RH-200	MONEX	-	-	-	SHAR	-	-	-	60?	-	-
1996-M07	2450367.50	1996 Oct 11	RH-200	-	RH-200	MONEX	-	-	-	SHAR	-	-	-	60?	-	-
2000-M03	2451595.50	2000 Feb 21	RH-200	-	-	Atm Waves (1 of 40)	-	-	-	SHAR	-	-	-	70	-	-
2000-M04	2451596.50	2000 Feb 22	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M05	2451597.50	2000 Feb 23	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M06	2451598.50	2000 Feb 24	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M07	2451599.50	2000 Feb 25	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M08	2451600.50	2000 Feb 26	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M09	2451602.50	2000 Feb 28	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M10	2451603.50	2000 Feb 29	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M11	2451604.50	2000 Mar 1	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M12	2451605.50	2000 Mar 2	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M13	2451606.50	2000 Mar 3	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M14	2451607.50	2000 Mar 4	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M15	2451608.50	2000 Mar 5	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M16	2451609.50	2000 Mar 6	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M17	2451610.50	2000 Mar 7	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M18	2451611.50	2000 Mar 8	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M19	2451612.50	2000 Mar 9	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M20	2451613.50	2000 Mar 10	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M21	2451614.50	2000 Mar 11	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M22	2451615.50	2000 Mar 12	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M23	2451616.50	2000 Mar 13	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M24	2451617.50	2000 Mar 14	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M25	2451618.50	2000 Mar 15	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M26	2451619.50	2000 Mar 16	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M27	2451620.50	2000 Mar 17	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M28	2451621.50	2000 Mar 18	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M29	2451622.50	2000 Mar 19	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M30	2451623.50	2000 Mar 20	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M31	2451624.50	2000 Mar 21	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M32	2451625.50	2000 Mar 22	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M33	2451626.50	2000 Mar 23	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M34	2451627.50	2000 Mar 24	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M35	2451628.50	2000 Mar 25	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M36	2451629.50	2000 Mar 26	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M37	2451630.50	2000 Mar 27	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M38	2451631.50	2000 Mar 28	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M39	2451632.50	2000 Mar 29	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M40	2451633.50	2000 Mar 30	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M41	2451634.50	2000 Mar 31	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M42	2451635.50	2000 Apr 1	RH-200	-	-	Atm Waves	-	-	-	SHAR	-	-	-	70	-	-
2000-M54	2451653.50	2000 Apr 19	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2000-M55	2451654.50	2000 Apr 20	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2000-M56	2451680.50	2000 May 16	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2000-M57	2451709.50	2000 Jun 14	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2000-M58	2451723.50	2000 Jun 28	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2000-M59	2451737.50	2000 Jul 12	RH-200	-	RH-200	-	-	-	-	SHAR	-	-	-	60?	-	-
2001-M01	2451909.50	2001	RH-200	-	-	Meteo	-	-	-	CHAN	-	-	-	70?	-	-
2001-M02	2451909.50	2001	RH-200	-	-	Meteo	-	-	-	CHAN	-	-	-	70?	-	-
2001-M03	2451909.50	2001	RH-200	-	-	Meteo	-	-	-	CHAN	-	-	-	70?	-	-
2001-S01	2451959.50	2001 Feb 19	RH-200SV	-	RH-200SV-1	-	-	-	-	SHAR	-	-	-	110?	-	-
2001-S02	2452060.50	2001 May 31	RH-200SV	-	RH-200SV-2	-	-	-	-	SHAR	-	-	-	110?	-	-
2001-S69	2452239.50	2001 Nov 26	RH-200SV	-	RH-200SV-3	-	-	-	-	SHAR	-	-	-	110?	-	-
2002-S87	2452368.50	2002 Apr 4	RH-200SV	-	RH-200SV-4	-	-	-	-	SHAR	-	-	-	110?	-	-
2002-M01	2452499.08	2002 Aug 12 1348	RH-200	-	-	Middle Atmosphere	-	-	-	TERLS	-	-	-	70?	-	-
2002-M02	2452599.50	2002 Nov 21	RH-200	-	-	Middle Atmosphere	-	-	-	TERLS	-	-	-	70?	-	-
2003-S62	2452718.50	2003 Mar 20	RH-200SV	-	RH-200SV-5	-	-	-	-	SHAR	-	-	-	110?	-	-
2003-S54	2452822.50	2003 Jul 2	RH-200SV	-	RH-200SV-6	-	-	-	-	SHAR	-	-	-	110?	-	-
2003-M02	2452964.94	2003 Nov 21 1030?	RH-200	-	-	Anniversary	-	-	-	TERLS	-	-	-	70?	-	-
2004-S83	2453012.50	2004 Jan 8	RH-200SV	-	RH-200SV-7	-	-	-	-	SHAR	-	-	-	110?	-	-
2004-S84	2453124.50	2004 Apr 29	RH-200SV	-	RH-200SV-8	-	-	-	-	SHAR	-	-	-	110?	-	-
2004-M09	2453209.78	2004 Jul 23 0645	RH-200	-	-	Meso Turb Chaff	-	-	-	SHAR	-	-	-	76	-	-
2004-M03	2453258.96	2004 Sep 10 1100	RH-200	-	-	Middle Atmosphere	-	-	-	TERLS	-	-	-	70?	-	-
2004-M04	2453272.50	2004 Sep 24?	RH-200	-	-	Middle Atmosphere	-	-	-	TERLS	-	-	-	70?	-	-
2004-M07	2453284.50	2004 Oct 6	RH-200	-	-	Middle Atmosphere	-	-	-	TERLS	-	-	-	74	-	-
2005-M08	2453468.77	2005 Apr 8 0630	RH-200	-	-	Meso Turb Chaff	-	-	-	SDSC	-	-	-	75?	-	-
2005-S65	2453530.50	2005 Jun 9	RH-200SV	-	RH-200SV-9	-	-	-	-	SDSC	-	-	-	110?	-	-
2005-M09	2453634.50	2005 Sep 21	RH-200	-	-	Chaff	-	-	-	SDSC	-	-	-	75?	-	-
2006-M07	2453774.83	2006 Feb 8 0800	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-M08	2453789.00	2006 Feb 22 1200	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-M09	2453802.67	2006 Mar 8 0405	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-M10	2453816.51	2006 Mar 22 0012	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-M11	2453831.17	2006 Apr 5 1600	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-M12	2453843.33	2006 Apr 17 2000	RH-200	-	-	CAWSES-India	-	-	-	TERLS	-	-	-	70?	-	-
2006-S28	2453905.53	2006 Jun 19 0045:56	RH-200SV	-	-	Mini-DUSTY MD-12	-	-	-	AND	-	-	-	80?	-	-
2006-S80	2453906.50	2006 Jun 20	RH-200SV	-	RH-200SV-10	-	-	-	-	SDSC	-	-	-	110?	-	-
2006-S81	2453907.50	2006 Jun 21	RH-200SV	-	RH-200SV-11	-	-	-	-	SDSC	-	-	-	110?	-	-
2007-M03	2454161.44	2007 Mar 1 2228:29	RH-200SV	-	-	Mini-DUSTY MD-13	-	-	-	AND	-	-	-	75	-	-
2008-M01	2454553.50	2008 Mar 28	RH-200SV	-	-	Mini-DUSTY MD-14	-	-	-	AND	-	-	-	75?	-	-
2010-M01	2455210.82	2010 Jan 14 0737	RH-200	-	-	Eclipse	-	-	-	TERLS	-	-	-	70?	-	-
2010-M02	2455210.90	2010 Jan 14 0930	RH-200	-	-	Eclipse	-	-	-	TERLS	-	-	-	70?	-	-
2010-M03	2455211.81	2010 Jan 15 0730?	RH-200	-	-	Eclipse	-	-	-	TERLS	-	-	-	70?	-	-
2010-M04	2455211.90	2010 Jan 15 0930?	RH-200	-	-	Eclipse	-	-	-	TERLS	-	-	-	70?	-	-
2010-M06	2455384.93	2010 Jul 7 1020	RH-200	-	TDF (RH-200-395)	Tech Demo Flight	-	-	-	TERLS	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-M03	2455699.50	2011 May 18	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
2013-M07	2456618.04	2013 Nov 21 1255	RH-200	-	-	Jubilee Launch	-	-	-	TERLS	-	-	-	70?	-	-
2014-M05	2456937.50	2014 Oct 7	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
2014-M06	2456938.50	2014 Oct 8	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
2014-M07	2456939.50	2014 Oct 9	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
2014-M08	2456940.50	2014 Oct 10	RH-200	-	-	Meteo Chaff	-	-	-	TERLS	-	-	-	70?	-	-
2015-M04	2457218.50	2015 Jul 15	RH-200	-	No. 1545	-	-	-	-	TERLS	-	-	-	70?	-	-
2016-M06	2457665.50	2016 Oct 4	RH-200	-	-	Chaff	-	-	-	SDSC	-	-	-	75?	-	-
2016-M07	2457666.50	2016 Oct 5	RH-200	-	-	Chaff	-	-	-	SDSC	-	-	-	75?	-	-
2016-M08	2457667.50	2016 Oct 6	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2017-M09	2458031.50	2017 Oct 5	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2017-M10	2458032.50	2017 Oct 6	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2017-M11	2458033.50	2017 Oct 7	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2017-M12	2458035.50	2017 Oct 9	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2018-M08	2458396.50	2018 Oct 5	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2018-M09	2458400.50	2018 Oct 9	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2019-M13	2458620.50	2019 May 17	RH-200	-	-	Meteo	-	-	-	SDSC	-	-	-	75?	-	-
2020-M10	2459108.78	2020 Sep 16 0647	RH-200	-	-	HTPB Propellant Test	-	-	-	TERLS	-	-	-	63	-	-
2022-M31	2459906.77	2022 Nov 23 0625	RH-200	-	-	Meteo	-	-	-	TERLS	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-M05	2443846.50	1978 Dec 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1978-M06	2443846.50	1978 Dec 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1978-M07	2443847.50	1978 Dec 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1978-M08	2443847.50	1978 Dec 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1978-M09	2443847.50	1978 Dec 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1979-M148	2443878.50	1979 Jan 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M167	2443878.50	1979 Jan 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M05	2443879.50	1979 Jan 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M06	2443883.50	1979 Jan 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M07	2443885.50	1979 Jan 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M08	2443886.50	1979 Jan 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M09	2443890.50	1979 Jan 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M10	2443892.50	1979 Jan 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M15	2443897.50	1979 Jan 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M11	2443897.50	1979 Jan 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M12	2443899.50	1979 Jan 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M16	2443899.50	1979 Jan 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M13	2443902.50	1979 Jan 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M14	2443904.50	1979 Jan 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M17	2443904.50	1979 Jan 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M166	2443906.50	1979 Feb 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M26	2443906.50	1979 Feb 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M18	2443907.50	1979 Feb 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M19	2443911.50	1979 Feb 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M27	2443911.50	1979 Feb 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M20	2443913.50	1979 Feb 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M28	2443913.50	1979 Feb 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M21	2443918.50	1979 Feb 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M29	2443918.50	1979 Feb 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M168	2443906.50	1979 Feb 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M30	2443920.50	1979 Feb 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M22	2443920.50	1979 Feb 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M23	2443925.50	1979 Feb 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M31	2443925.50	1979 Feb 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M32	2443927.50	1979 Feb 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M24	2443927.50	1979 Feb 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M149	2443927.50	1979 Feb 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M25	2443932.50	1979 Feb 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M33	2443932.50	1979 Feb 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M34	2443934.50	1979 Mar 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M39	2443934.50	1979 Mar 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M35	2443939.50	1979 Mar 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M40	2443939.50	1979 Mar 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M36	2443946.50	1979 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M170	2443946.50	1979 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M41	2443946.50	1979 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M37	2443953.50	1979 Mar 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M42	2443953.50	1979 Mar 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M38	2443960.50	1979 Mar 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M43	2443960.50	1979 Mar 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M44	2443967.50	1979 Apr 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M48	2443967.50	1979 Apr 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M45	2443974.50	1979 Apr 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M49	2443974.50	1979 Apr 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M46	2443981.50	1979 Apr 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M50	2443981.50	1979 Apr 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M47	2443988.50	1979 Apr 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M51	2443988.50	1979 Apr 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M52	2443995.50	1979 May 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M59	2443995.50	1979 May 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M53	2444002.50	1979 May 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M60	2444002.50	1979 May 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M150	2444004.50	1979 May 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M61	2444009.50	1979 May 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M54	2444009.50	1979 May 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	Or May 10?
1979-M55	2444011.50	1979 May 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M62	2444011.50	1979 May 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M56	2444016.50	1979 May 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M63	2444016.50	1979 May 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M57	2444018.50	1979 May 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M58	2444023.50	1979 May 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M64	2444025.50	1979 Jun 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M72	2444025.50	1979 Jun 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M65	2444030.50	1979 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M73	2444030.50	1979 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M74	2444032.50	1979 Jun 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M66	2444032.50	1979 Jun 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M67	2444037.50	1979 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M75	2444037.50	1979 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M76	2444039.50	1979 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M68	2444039.50	1979 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M151	2444039.50	1979 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M69	2444044.50	1979 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M77	2444044.50	1979 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M152	2444046.50	1979 Jun 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M70	2444046.50	1979 Jun 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-M71	2444051.50	1979 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M78	2444051.50	1979 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M153	2444053.50	1979 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M79	2444053.50	1979 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M169	2444053.50	1979 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M80	2444058.50	1979 Jul 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M86	2444058.50	1979 Jul 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M87	2444060.50	1979 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M81	2444060.50	1979 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M154	2444060.50	1979 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M04	2444066.05	1979 Jul 11 1318	RH-200	-	MONEX-79	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP13,48	-	-
1979-M88	2444065.50	1979 Jul 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M89	2444067.50	1979 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M155	2444067.50	1979 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M82	2444067.50	1979 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M171	2444070.50	1979 Jul 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M83	2444074.50	1979 Jul 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M90	2444074.50	1979 Jul 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M91	2444079.50	1979 Jul 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M84	2444080.50	1979 Jul 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M85	2444081.50	1979 Jul 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M92	2444081.50	1979 Jul 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M93	2444086.50	1979 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M102	2444086.50	1979 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M103	2444088.50	1979 Aug 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M94	2444088.50	1979 Aug 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M95	2444093.50	1979 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M104	2444093.50	1979 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M105	2444095.50	1979 Aug 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M106	2444100.50	1979 Aug 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M96	2444101.50	1979 Aug 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M97	2444102.50	1979 Aug 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M107	2444102.50	1979 Aug 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M98	2444107.50	1979 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M108	2444107.50	1979 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M109	2444109.50	1979 Aug 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M99	2444109.50	1979 Aug 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M100	2444114.50	1979 Aug 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M110	2444114.50	1979 Aug 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M101	2444116.50	1979 Aug 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M111	2444116.50	1979 Aug 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M115	2444121.50	1979 Sep 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M112	2444121.50	1979 Sep 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M116	2444128.50	1979 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M172	2444128.50	1979 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M173	2444128.50	1979 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M113	2444135.50	1979 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M117	2444135.50	1979 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M114	2444142.50	1979 Sep 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M118	2444142.50	1979 Sep 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M156	2444143.50	1979 Sep 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M157	2444149.50	1979 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M119	2444149.50	1979 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M123	2444149.50	1979 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M120	2444156.50	1979 Oct 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M124	2444156.50	1979 Oct 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M125	2444161.50	1979 Oct 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M158	2444163.50	1979 Oct 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M121	2444163.50	1979 Oct 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M159	2444170.50	1979 Oct 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M122	2444170.50	1979 Oct 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M126	2444172.50	1979 Oct 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M160	2444177.50	1979 Oct 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M127	2444177.50	1979 Oct 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M174	2444177.50	1979 Oct 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1979-M128	2444184.96	1979 Nov 7 1100	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M129	2444185.01	1979 Nov 7 1211	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M130	2444185.05	1979 Nov 7 1318	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M131	2444185.08	1979 Nov 7 1357	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M134	2444184.50	1979 Nov 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M135	2444191.50	1979 Nov 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M161	2444191.50	1979 Nov 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M132	2444192.50	1979 Nov 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M162	2444198.50	1979 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1979-M133	2444198.50	1979 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M136	2444200.50	1979 Nov 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M163	2444205.50	1979 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M137	2444205.50	1979 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M138	2444207.50	1979 Nov 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M143	2444212.50	1979 Dec 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M139	2444213.50	1979 Dec 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M140	2444219.50	1979 Dec 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M144	2444219.50	1979 Dec 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M141	2444226.50	1979 Dec 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M145	2444226.50	1979 Dec 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1979-M142	2444233.50	1979 Dec 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-M146	2444233.50	1979 Dec 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M13	2444240.50	1980 Jan 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M14	2444242.50	1980 Jan 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M07	2444242.50	1980 Jan 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M08	2444247.50	1980 Jan 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M15	2444247.50	1980 Jan 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M16	2444249.50	1980 Jan 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M09	2444249.50	1980 Jan 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M17	2444254.50	1980 Jan 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M18	2444256.50	1980 Jan 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M19	2444261.50	1980 Jan 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M10	2444261.50	1980 Jan 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M11	2444263.50	1980 Jan 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M20	2444263.50	1980 Jan 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M12	2444268.50	1980 Jan 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M24	2444275.50	1980 Feb 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M21	2444282.50	1980 Feb 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M25	2444282.50	1980 Feb 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M26	2444285.50	1980 Feb 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M22	2444285.50	1980 Feb 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M02	2444285.94	1980 Feb 16 1030?	RH-200	-	-	0.000	ISRO	SF	U	ISRO/	Meteo	ProcInNSA48,A3,494	-	-
1980-M04	2444286.94	1980 Feb 17 1030?	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ProcInNSA48,A3,494	-	-
1980-M23	2444289.50	1980 Feb 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M27	2444290.50	1980 Feb 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M155	2444296.50	1980 Feb 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M151	2444296.50	1980 Feb 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M28	2444303.50	1980 Mar 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M29	2444317.50	1980 Mar 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M156	2444317.50	1980 Mar 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M157	2444324.50	1980 Mar 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M30	2444324.50	1980 Mar 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M31	2444331.50	1980 Apr 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M34	2444331.50	1980 Apr 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M35	2444338.50	1980 Apr 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M158	2444345.50	1980 Apr 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M32	2444345.50	1980 Apr 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M33	2444353.50	1980 Apr 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M36	2444360.50	1980 May 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M37	2444373.50	1980 May 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M38	2444380.50	1980 May 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M39	2444382.50	1980 May 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M40	2444382.50	1980 May 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M41	2444387.50	1980 May 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M145	2444389.50	1980 May 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M42	2444389.50	1980 May 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M43	2444394.50	1980 Jun 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M50	2444394.50	1980 Jun 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M51	2444396.50	1980 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M44	2444396.50	1980 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M146	2444396.50	1980 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M45	2444401.50	1980 Jun 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M52	2444401.50	1980 Jun 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M53	2444403.50	1980 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M46	2444403.50	1980 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M54	2444408.50	1980 Jun 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M47	2444408.50	1980 Jun 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M48	2444410.50	1980 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M49	2444417.50	1980 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M55	2444417.50	1980 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M56	2444422.50	1980 Jul 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M62	2444422.50	1980 Jul 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M63	2444424.50	1980 Jul 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M57	2444424.50	1980 Jul 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M64	2444429.50	1980 Jul 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M58	2444430.50	1980 Jul 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M65	2444431.50	1980 Jul 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M66	2444436.50	1980 Jul 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M67	2444438.50	1980 Jul 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M68	2444443.50	1980 Jul 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M59	2444443.50	1980 Jul 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M60	2444445.50	1980 Jul 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M159	2444445.50	1980 Jul 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M61	2444450.50	1980 Jul 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M160	2444450.50	1980 Jul 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M69	2444452.50	1980 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M77	2444452.50	1980 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M78	2444457.50	1980 Aug 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M70	2444457.50	1980 Aug 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M71	2444459.50	1980 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M79	2444459.50	1980 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M147	2444459.50	1980 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M80	2444464.50	1980 Aug 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M72	2444465.50	1980 Aug 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M81	2444466.50	1980 Aug 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M73	2444467.50	1980 Aug 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M148	2444467.50	1980 Aug 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-M74	2444471.50	1980 Aug 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M82	2444471.50	1980 Aug 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M83	2444473.50	1980 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M149	2444473.50	1980 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M75	2444473.50	1980 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M84	2444476.50	1980 Aug 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M153	2444478.50	1980 Aug 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M76	2444478.50	1980 Aug 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M152	2444480.50	1980 Aug 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M164	2444480.50	1980 Aug 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M150	2444481.50	1980 Aug 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1980-M94	2444483.50	1980 Sep 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M95	2444485.50	1980 Sep 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M85	2444485.50	1980 Sep 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M86	2444487.50	1980 Sep 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M96	2444487.50	1980 Sep 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M87	2444492.50	1980 Sep 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M97	2444492.50	1980 Sep 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M98	2444494.50	1980 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M88	2444494.50	1980 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M99	2444499.50	1980 Sep 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M89	2444499.50	1980 Sep 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M90	2444501.50	1980 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M100	2444501.50	1980 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M101	2444504.50	1980 Sep 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M91	2444504.50	1980 Sep 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M92	2444506.50	1980 Sep 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M102	2444506.50	1980 Sep 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M93	2444508.50	1980 Sep 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M165	2444508.50	1980 Sep 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M103	2444513.50	1980 Oct 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M112	2444513.50	1980 Oct 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M113	2444515.50	1980 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M104	2444515.50	1980 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M105	2444518.50	1980 Oct 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M114	2444518.50	1980 Oct 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M106	2444520.50	1980 Oct 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M107	2444522.50	1980 Oct 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M108	2444527.50	1980 Oct 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M115	2444527.50	1980 Oct 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M109	2444529.50	1980 Oct 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M116	2444529.50	1980 Oct 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M117	2444534.50	1980 Oct 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M110	2444534.50	1980 Oct 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M111	2444536.50	1980 Oct 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M118	2444536.50	1980 Oct 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M154	2444541.50	1980 Oct 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M161	2444541.50	1980 Oct 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M162	2444543.50	1980 Oct 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M163	2444543.50	1980 Oct 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M119	2444548.50	1980 Nov 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M128	2444548.50	1980 Nov 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M129	2444553.50	1980 Nov 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M120	2444553.50	1980 Nov 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M130	2444555.50	1980 Nov 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M131	2444557.50	1980 Nov 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M121	2444557.50	1980 Nov 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M122	2444560.50	1980 Nov 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M123	2444562.50	1980 Nov 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M132	2444562.50	1980 Nov 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M133	2444564.50	1980 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M124	2444564.50	1980 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M125	2444567.50	1980 Nov 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M134	2444567.50	1980 Nov 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M135	2444569.50	1980 Nov 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M126	2444569.50	1980 Nov 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M127	2444571.50	1980 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M136	2444571.50	1980 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M141	2444576.50	1980 Dec 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M137	2444583.50	1980 Dec 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M142	2444583.50	1980 Dec 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M143	2444590.50	1980 Dec 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M138	2444590.50	1980 Dec 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M139	2444597.50	1980 Dec 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M144	2444597.50	1980 Dec 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1980-M168	2444597.50	1980 Dec 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1980-M140	2444604.50	1980 Dec 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M19	2444606.50	1981 Jan 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M27	2444606.50	1981 Jan 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M20	2444611.50	1981 Jan 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M28	2444611.50	1981 Jan 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M29	2444613.50	1981 Jan 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M21	2444613.50	1981 Jan 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M30	2444618.50	1981 Jan 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M31	2444620.50	1981 Jan 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M22	2444620.50	1981 Jan 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-M23	2444625.50	1981 Jan 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M32	2444625.50	1981 Jan 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M33	2444627.50	1981 Jan 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M24	2444627.50	1981 Jan 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M25	2444632.50	1981 Jan 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M34	2444632.50	1981 Jan 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M26	2444634.50	1981 Jan 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M35	2444634.50	1981 Jan 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M72	2444639.50	1981 Feb 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M40	2444639.50	1981 Feb 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M36	2444640.50	1981 Feb 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M37	2444646.50	1981 Feb 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M41	2444646.50	1981 Feb 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M42	2444648.50	1981 Feb 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M84	2444653.50	1981 Feb 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M38	2444653.50	1981 Feb 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M73	2444654.67	1981 Feb 19 0412	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M74	2444654.71	1981 Feb 19 0502	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M75	2444654.74	1981 Feb 19 0550	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M76	2444654.78	1981 Feb 19 0637	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M77	2444654.80	1981 Feb 19 0719	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M78	2444655.71	1981 Feb 20 0500	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M79	2444655.74	1981 Feb 20 0545	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M80	2444655.77	1981 Feb 20 0634	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M81	2444655.82	1981 Feb 20 0734	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M82	2444656.50	1981 Feb 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1981-M88	2444660.50	1981 Feb 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1981-M39	2444661.50	1981 Feb 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M43	2444668.50	1981 Mar 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M44	2444674.50	1981 Mar 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M45	2444681.50	1981 Mar 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M46	2444683.50	1981 Mar 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M47	2444688.50	1981 Mar 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M48	2444695.50	1981 Apr 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M54	2444695.50	1981 Apr 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M49	2444696.50	1981 Apr 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M50	2444702.50	1981 Apr 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M55	2444702.50	1981 Apr 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M56	2444709.50	1981 Apr 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M89	2444709.50	1981 Apr 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1981-M51	2444710.50	1981 Apr 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M52	2444716.50	1981 Apr 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M57	2444718.50	1981 Apr 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M53	2444723.50	1981 Apr 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M58	2444730.50	1981 May 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M59	2444737.50	1981 May 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M60	2444751.50	1981 May 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M61	2444753.50	1981 May 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M90	2444753.50	1981 May 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1981-M62	2444730.50	1981 May 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M63	2444732.50	1981 May 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M64	2444737.50	1981 May 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M65	2444739.50	1981 May 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M66	2444744.50	1981 May 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M67	2444746.50	1981 May 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M85	2444751.50	1981 May 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M86	2444753.50	1981 May 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M68	2444758.50	1981 Jun 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M69	2444760.50	1981 Jun 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M70	2444765.50	1981 Jun 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M71	2444772.50	1981 Jun 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M87	2444772.50	1981 Jun 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1981-M83	2444969.50	1981 Dec 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M40	2444991.74	1982 Jan 22 0540	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M41	2444991.77	1982 Jan 22 0630	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M42	2444996.50	1982 Jan 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M01	2445000.50	1982 Feb	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	AdvSpRes4-111	-	-
1982-M43	2445032.08	1982 Mar 3 1352	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M44	2445032.18	1982 Mar 3 1616	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M02	2445028.50	1982 Mar?	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	AdvSpRes4-111	-	-
1982-M03	2445028.50	1982 Mar?	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	AdvSpRes4-111	-	-
1982-M07	2445031.50	1982 Mar 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M10	2445033.50	1982 Mar 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M11	2445038.50	1982 Mar 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M08	2445038.50	1982 Mar 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M12	2445045.50	1982 Mar 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M09	2445046.50	1982 Mar 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M46	2445052.50	1982 Mar 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M13	2445054.50	1982 Mar 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M14	2445059.50	1982 Mar 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M04	2445059.50	1982 Apr	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	AdvSpRes4-111	-	-
1982-M15	2445060.50	1982 Apr 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M45	2445065.50	1982 Apr 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1982-M18	2445066.50	1982 Apr 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M16	2445066.50	1982 Apr 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M17	2445080.50	1982 Apr 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-M19	2445073.50	1982 Apr 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M20	2445080.50	1982 Apr 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M47	2445087.50	1982 Apr 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M21	2445087.50	1982 Apr 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M37	2445094.50	1982 May 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M38	2445094.50	1982 May 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M39	2445101.50	1982 May 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M35	2445108.50	1982 May 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M48	2445115.50	1982 May 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M36	2445122.50	1982 Jun 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M52	2445129.50	1982 Jun 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1982-M49	2445129.50	1982 Jun 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M22	2445255.50	1982 Oct 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M23	2445269.50	1982 Oct 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M24	2445276.50	1982 Nov 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M25	2445283.50	1982 Nov 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M26	2445285.50	1982 Nov 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M27	2445290.50	1982 Nov 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M28	2445292.50	1982 Nov 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M29	2445297.50	1982 Nov 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M30	2445299.50	1982 Nov 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M31	2445304.50	1982 Dec 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M32	2445311.50	1982 Dec 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M33	2445318.50	1982 Dec 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1982-M34	2445332.50	1982 Dec 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M04	2445339.50	1983 Jan 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M05	2445346.50	1983 Jan 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M06	2445353.50	1983 Jan 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M07	2445362.50	1983 Jan 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M08	2445367.50	1983 Feb 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M09	2445374.50	1983 Feb 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M10	2445381.50	1983 Feb 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M11	2445390.50	1983 Feb 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M12	2445395.50	1983 Mar 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M13	2445402.50	1983 Mar 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M14	2445416.50	1983 Mar 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M15	2445423.50	1983 Mar 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M16	2445430.50	1983 Apr 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M17	2445439.50	1983 Apr 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M18	2445458.50	1983 May 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M19	2445465.50	1983 May 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M20	2445472.50	1983 May 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M21	2445479.50	1983 May 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M22	2445486.50	1983 Jun 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M71	2445488.50	1983 Jun 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M72	2445489.50	1983 Jun 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M23	2445493.50	1983 Jun 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M24	2445500.50	1983 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M25	2445507.50	1983 Jun 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M26	2445514.50	1983 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M73	2445521.50	1983 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M27	2445521.50	1983 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M28	2445528.50	1983 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M74	2445528.50	1983 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M29	2445535.50	1983 Jul 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M75	2445535.50	1983 Jul 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M76	2445542.50	1983 Jul 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M30	2445542.50	1983 Jul 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M77	2445549.50	1983 Aug 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M31	2445549.50	1983 Aug 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M32	2445556.50	1983 Aug 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M78	2445556.50	1983 Aug 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M79	2445563.50	1983 Aug 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M33	2445563.50	1983 Aug 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M34	2445565.50	1983 Aug 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M35	2445570.50	1983 Aug 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M80	2445570.50	1983 Aug 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M36	2445572.50	1983 Aug 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M81	2445577.50	1983 Aug 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M37	2445577.50	1983 Aug 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M38	2445579.50	1983 Sep 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M82	2445584.50	1983 Sep 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M39	2445586.50	1983 Sep 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M40	2445591.50	1983 Sep 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M83	2445592.50	1983 Sep 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M41	2445598.50	1983 Sep 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M42	2445600.50	1983 Sep 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M84	2445605.50	1983 Sep 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M43	2445605.50	1983 Sep 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M44	2445607.50	1983 Sep 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M45	2445612.50	1983 Oct 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M46	2445614.50	1983 Oct 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M85	2445626.50	1983 Oct 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M86	2445635.50	1983 Oct 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M47	2445640.50	1983 Nov 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M48	2445642.50	1983 Nov 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-M49	2445647.50	1983 Nov 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M50	2445649.50	1983 Nov 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M51	2445654.50	1983 Nov 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M87	2445659.50	1983 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M88	2445660.50	1983 Nov 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M52	2445661.50	1983 Nov 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M89	2445663.50	1983 Nov 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M90	2445668.50	1983 Nov 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M53	2445668.50	1983 Nov 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M91	2445669.50	1983 Dec 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M92	2445670.50	1983 Dec 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	RC97	-	-
1983-M54	2445675.50	1983 Dec 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M55	2445682.50	1983 Dec 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M56	2445689.50	1983 Dec 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1983-M57	2445696.50	1983 Dec 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M95	2445703.50	1984 Jan 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M96	2445710.50	1984 Jan 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M97	2445717.50	1984 Jan 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M98	2445726.50	1984 Jan 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M40	2445731.50	1984 Feb 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M41	2445738.50	1984 Feb 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M42	2445745.50	1984 Feb 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M43	2445752.50	1984 Feb 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M44	2445759.50	1984 Feb 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M45	2445766.50	1984 Mar 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M46	2445773.50	1984 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M47	2445780.50	1984 Mar 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M48	2445787.50	1984 Mar 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M49	2445794.50	1984 Apr 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M50	2445801.50	1984 Apr 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M51	2445809.50	1984 Apr 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M52	2445815.50	1984 Apr 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M99	2445822.50	1984 May 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M100	2445829.50	1984 May 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M101	2445836.50	1984 May 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M04	2445844.03	1984 May 23 1245	RH-200	-	RH-200-243	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M05	2445844.03	1984 May 23 1250	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M06	2445844.03	1984 May 23 1248	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M07	2445844.08	1984 May 23 1354	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M08	2445846.02	1984 May 25 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-A41	2445846.02	1984 May 25 1230	RH-200	-	RH-200-247	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M09	2445846.07	1984 May 25 1335	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M10	2445846.07	1984 May 25 1336	RH-200	-	RH-200-244	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M11	2445848.02	1984 May 27 1230	RH-200	-	RH-200-245	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M12	2445848.02	1984 May 27 1234	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M13	2445848.03	1984 May 27 1245	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M14	2445848.06	1984 May 27 1330	RH-200	-	RH-200-246	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M15	2445850.02	1984 May 29 1230	RH-200	-	RH-200-248	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M16	2445850.03	1984 May 29 1237	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M17	2445850.03	1984 May 29 1246	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M18	2445852.02	1984 May 31 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M19	2445852.02	1984 May 31 1230	RH-200	-	RH-200-249	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M20	2445852.02	1984 May 31 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M21	2445854.02	1984 Jun 2 1230	RH-200	-	RH-200-250	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M22	2445854.03	1984 Jun 2 1240	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M23	2445854.08	1984 Jun 2 1357	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M24	2445856.02	1984 Jun 4 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M25	2445856.03	1984 Jun 4 1240	RH-200	-	RH-200-252	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M26	2445856.07	1984 Jun 4 1339	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M27	2445856.10	1984 Jun 4 1420	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M28	2445858.02	1984 Jun 6 1230	RH-200	-	RH-200-253	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M29	2445858.03	1984 Jun 6 1250	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M30	2445860.02	1984 Jun 8 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M31	2445860.02	1984 Jun 8 1233	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M32	2445860.04	1984 Jun 8 1301	RH-200	-	RH-200-254	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M33	2445862.03	1984 Jun 10 1240	RH-200	-	RH-200-255	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M34	2445862.03	1984 Jun 10 1245	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M35	2445862.04	1984 Jun 10 1301	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M36	2445864.02	1984 Jun 12 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M37	2445864.02	1984 Jun 12 1230	RH-200	-	RH-200-251	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M38	2445864.02	1984 Jun 12 1230	RH-200	-	-	0.000	ISRO	SS	-	ISRO/KrishnaMurthy	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M39	2445864.08	1984 Jun 12 1350	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJRSP15,125	CurrSci89,475	-
1984-M102	2445871.50	1984 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M103	2445878.50	1984 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M53	2445886.50	1984 Jul 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M54	2445892.50	1984 Jul 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M55	2445899.50	1984 Jul 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M104	2445906.50	1984 Jul 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M56	2445913.50	1984 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M57	2445920.50	1984 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M58	2445928.50	1984 Aug 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M59	2445934.50	1984 Aug 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M88	2445942.50	1984 Aug 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M89	2445948.50	1984 Sep 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M90	2445955.50	1984 Sep 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M91	2445962.50	1984 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-M92	2445969.50	1984 Sep 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M93	2445976.50	1984 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M94	2445983.50	1984 Oct 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M67	2445990.50	1984 Oct 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M68	2445998.50	1984 Oct 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M69	2446011.50	1984 Nov 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M70	2446018.50	1984 Nov 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M71	2446025.50	1984 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M72	2446032.50	1984 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M73	2446039.50	1984 Dec 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M74	2446046.50	1984 Dec 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M75	2446053.50	1984 Dec 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1984-M76	2446060.50	1984 Dec 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M02	2446067.50	1985 Jan 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M03	2446074.50	1985 Jan 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M04	2446081.50	1985 Jan 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M05	2446089.04	1985 Jan 23 1300	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M06	2446089.08	1985 Jan 23 1400	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M34	2446096.50	1985 Jan 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M07	2446102.50	1985 Feb 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M08	2446109.50	1985 Feb 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M09	2446116.50	1985 Feb 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M10	2446123.50	1985 Feb 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M11	2446131.50	1985 Mar 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M12	2446137.50	1985 Mar 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M13	2446144.50	1985 Mar 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M14	2446151.50	1985 Mar 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M15	2446159.50	1985 Apr 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M16	2446166.06	1985 Apr 10 1330	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M17	2446166.09	1985 Apr 10 1415	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M18	2446172.50	1985 Apr 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M35	2446179.50	1985 Apr 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M19	2446186.50	1985 May 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M20	2446193.50	1985 May 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M21	2446200.50	1985 May 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M22	2446207.50	1985 May 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M23	2446214.50	1985 May 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M24	2446221.50	1985 Jun 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M25	2446229.50	1985 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M26	2446235.50	1985 Jun 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M27	2446242.50	1985 Jun 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M28	2446249.50	1985 Jul 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M29	2446256.50	1985 Jul 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M30	2446263.50	1985 Jul 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M31	2446270.50	1985 Jul 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M32	2446277.50	1985 Jul 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M33	2446298.50	1985 Aug 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M37	2446312.50	1985 Sep 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M38	2446319.50	1985 Sep 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M39	2446327.50	1985 Sep 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M40	2446333.50	1985 Sep 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M41	2446341.50	1985 Oct 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M42	2446347.50	1985 Oct 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M43	2446362.50	1985 Oct 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M44	2446375.50	1985 Nov 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M45	2446382.50	1985 Nov 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M46	2446390.50	1985 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M36	2446397.50	1985 Nov 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M47	2446403.50	1985 Dec 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M48	2446410.50	1985 Dec 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M49	2446417.50	1985 Dec 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1985-M50	2446425.50	1985 Dec 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M46	2446431.50	1986 Jan 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M47	2446438.50	1986 Jan 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M48	2446445.50	1986 Jan 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M01	2446445.50	1986 Jan 15	RH-200	-	RH-200-256	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M02	2446446.50	1986 Jan 16	RH-200	-	RH-200-257	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M03	2446447.50	1986 Jan 17	RH-200	-	RH-200-258	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M04	2446448.50	1986 Jan 18	RH-200	-	RH-200-259	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M05	2446449.50	1986 Jan 19	RH-200	-	RH-200-260	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M06	2446450.50	1986 Jan 20	RH-200	-	RH-200-261	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M07	2446451.50	1986 Jan 21	RH-200	-	RH-200-262	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M08	2446452.50	1986 Jan 22	RH-200	-	RH-200-263	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M49	2446452.50	1986 Jan 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M09	2446453.50	1986 Jan 23	RH-200	-	RH-200-264	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M101	2446453.50	1986 Jan 23	RH-200	-	RH-200-265	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M102	2446454.50	1986 Jan 24	RH-200	-	RH-200-266	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M10	2446454.50	1986 Jan 24	RH-200	-	RH-200-267	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M11	2446455.50	1986 Jan 25	RH-200	-	RH-200-268	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M103	2446455.50	1986 Jan 25	RH-200	-	RH-200-269	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M104	2446456.50	1986 Jan 26	RH-200	-	RH-200-271	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M12	2446456.50	1986 Jan 26	RH-200	-	RH-200-272	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M13	2446457.50	1986 Jan 27	RH-200	-	RH-200-273	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M14	2446458.50	1986 Jan 28	RH-200	-	RH-200-274	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M105	2446458.50	1986 Jan 28	RH-200	-	RH-200-276	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M15	2446459.50	1986 Jan 29	RH-200	-	RH-200-277	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-M16	2446460.50	1986 Jan 30	RH-200	-	RH-200-278	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M50	2446460.50	1986 Jan 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M17	2446461.50	1986 Jan 31	RH-200	-	RH-200-279	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M18	2446462.50	1986 Feb 1	RH-200	-	RH-200-280	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M19	2446463.50	1986 Feb 2	RH-200	-	RH-200-281	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M20	2446464.50	1986 Feb 3	RH-200	-	RH-200-275	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M21	2446465.50	1986 Feb 4	RH-200	-	RH-200-282	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M22	2446466.50	1986 Feb 5	RH-200	-	RH-200-283	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M51	2446466.50	1986 Feb 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M23	2446467.50	1986 Feb 6	RH-200	-	RH-200-284	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M24	2446468.50	1986 Feb 7	RH-200	-	RH-200-285	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M25	2446469.50	1986 Feb 8	RH-200	-	RH-200-286	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M26	2446470.50	1986 Feb 9	RH-200	-	RH-200-287	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M106	2446470.50	1986 Feb 9	RH-200	-	RH-200-288	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M27	2446471.50	1986 Feb 10	RH-200	-	RH-200-289	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M28	2446472.50	1986 Feb 11	RH-200	-	RH-200-290	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M29	2446473.50	1986 Feb 12	RH-200	-	RH-200-291	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M107	2446473.50	1986 Feb 12	RH-200	-	RH-200-292	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M52	2446473.50	1986 Feb 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M30	2446474.50	1986 Feb 13	RH-200	-	RH-200-293	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M31	2446475.50	1986 Feb 14	RH-200	-	RH-200-295	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M32	2446476.50	1986 Feb 15	RH-200	-	RH-200-296	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M33	2446477.50	1986 Feb 16	RH-200	-	RH-200-297	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M34	2446478.50	1986 Feb 17	RH-200	-	RH-200-298	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M35	2446479.50	1986 Feb 18	RH-200	-	RH-200-299	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M53	2446480.50	1986 Feb 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M36	2446480.50	1986 Feb 19	RH-200	-	RH-200-300	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M37	2446481.50	1986 Feb 20	RH-200	-	RH-200-301	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M38	2446482.50	1986 Feb 21	RH-200	-	RH-200-303	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M39	2446483.50	1986 Feb 22	RH-200	-	RH-200-304	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M40	2446484.50	1986 Feb 23	RH-200	-	RH-200-270	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M41	2446485.50	1986 Feb 24	RH-200	-	RH-200-294	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M108	2446485.50	1986 Feb 24	RH-200	-	RH-200-302	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M42	2446486.50	1986 Feb 25	RH-200	-	RH-200-307	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M43	2446487.50	1986 Feb 26	RH-200	-	RH-200-305	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M44	2446488.50	1986 Feb 27	RH-200	-	RH-200-306	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M87	2446488.50	1986 Feb 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M45	2446489.50	1986 Feb 28	RH-200	-	RH-200-308	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1986-M88	2446494.50	1986 Mar 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M89	2446501.50	1986 Mar 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M90	2446508.50	1986 Mar 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M91	2446515.50	1986 Mar 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M92	2446522.50	1986 Apr 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M93	2446529.50	1986 Apr 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M94	2446536.50	1986 Apr 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M95	2446543.50	1986 Apr 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M96	2446550.50	1986 Apr 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M54	2446557.50	1986 May 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M55	2446564.50	1986 May 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M97	2446571.50	1986 May 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M98	2446578.50	1986 May 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M56	2446585.50	1986 Jun 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M57	2446592.50	1986 Jun 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M58	2446600.50	1986 Jun 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M59	2446606.50	1986 Jun 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M60	2446614.50	1986 Jul 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M61	2446620.50	1986 Jul 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M62	2446627.50	1986 Jul 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M63	2446634.50	1986 Jul 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M64	2446641.50	1986 Jul 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M65	2446648.50	1986 Aug 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M66	2446655.50	1986 Aug 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M67	2446662.50	1986 Aug 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M99	2446670.50	1986 Aug 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M109	2446677.50	1986 Sep 4	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M68	2446677.50	1986 Sep 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M110	2446678.50	1986 Sep 5	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1986-M69	2446683.50	1986 Sep 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M70	2446691.50	1986 Sep 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M71	2446698.50	1986 Sep 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M72	2446704.50	1986 Oct 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M73	2446711.50	1986 Oct 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M74	2446718.50	1986 Oct 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M75	2446725.50	1986 Oct 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M76	2446726.50	1986 Oct 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M77	2446733.50	1986 Oct 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M78	2446739.50	1986 Nov 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M79	2446746.50	1986 Nov 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M80	2446753.50	1986 Nov 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M81	2446760.50	1986 Nov 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M82	2446767.50	1986 Dec 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M83	2446774.50	1986 Dec 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M84	2446782.50	1986 Dec 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M85	2446788.50	1986 Dec 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1986-M86	2446795.50	1986 Dec 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M01	2446802.50	1987 Jan 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-M02	2446809.50	1987 Jan 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M03	2446816.50	1987 Jan 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M04	2446823.50	1987 Jan 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M05	2446830.50	1987 Feb 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M06	2446837.50	1987 Feb 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M07	2446844.50	1987 Feb 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M08	2446851.50	1987 Feb 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M09	2446858.50	1987 Mar 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M10	2446865.50	1987 Mar 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M11	2446872.50	1987 Mar 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M12	2446879.50	1987 Mar 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M13	2446886.50	1987 Apr 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M14	2446893.50	1987 Apr 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M15	2446900.50	1987 Apr 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M16	2446907.50	1987 Apr 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M17	2446914.50	1987 Apr 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M18	2446921.50	1987 May 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M19	2446929.50	1987 May 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M20	2446935.50	1987 May 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M21	2446942.50	1987 May 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M22	2446949.50	1987 Jun 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M23	2446956.50	1987 Jun 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M24	2446963.50	1987 Jun 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M25	2446970.50	1987 Jun 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M26	2446977.50	1987 Jul 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M27	2446984.50	1987 Jul 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M28	2446991.50	1987 Jul 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M29	2446998.50	1987 Jul 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M30	2447005.50	1987 Jul 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M31	2447012.50	1987 Aug 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M32	2447019.50	1987 Aug 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M33	2447026.50	1987 Aug 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M34	2447033.50	1987 Aug 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M35	2447040.50	1987 Sep 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M36	2447047.50	1987 Sep 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M37	2447054.50	1987 Sep 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M38	2447061.50	1987 Sep 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M39	2447068.50	1987 Sep 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M40	2447075.50	1987 Oct 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	bharat-rakshak.com	-	-
1987-M42	2447082.50	1987 Oct 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M43	2447089.50	1987 Oct 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M53	2447096.50	1987 Oct 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M44	2447103.50	1987 Nov 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M45	2447110.50	1987 Nov 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M46	2447117.50	1987 Nov 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M47	2447124.50	1987 Nov 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M48	2447131.50	1987 Dec 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M49	2447138.50	1987 Dec 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M50	2447145.50	1987 Dec 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M51	2447152.50	1987 Dec 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1987-M52	2447159.50	1987 Dec 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M54	2447166.50	1988 Jan 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M55	2447173.50	1988 Jan 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M56	2447180.50	1988 Jan 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M57	2447188.50	1988 Jan 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M58	2447194.50	1988 Feb 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M59	2447201.50	1988 Feb 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M60	2447208.50	1988 Feb 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M61	2447215.50	1988 Feb 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M62	2447222.50	1988 Mar 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M63	2447229.50	1988 Mar 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M64	2447236.50	1988 Mar 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M65	2447243.50	1988 Mar 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M66	2447250.50	1988 Mar 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M67	2447257.50	1988 Apr 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M68	2447264.50	1988 Apr 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M69	2447271.50	1988 Apr 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M70	2447278.50	1988 Apr 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M71	2447292.50	1988 May 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M72	2447306.50	1988 May 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M07	2447312.50	1988 May 31	RH-200	-	Daily to Jul 12	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M73	2447313.50	1988 Jun 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M08	2447313.50	1988 Jun 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M09	2447314.50	1988 Jun 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M10	2447315.50	1988 Jun 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M11	2447316.50	1988 Jun 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M12	2447317.50	1988 Jun 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M13	2447318.50	1988 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M14	2447319.50	1988 Jun 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M15	2447320.50	1988 Jun 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M74	2447320.50	1988 Jun 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M16	2447321.50	1988 Jun 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M17	2447322.50	1988 Jun 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M18	2447323.50	1988 Jun 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M19	2447324.50	1988 Jun 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M20	2447325.50	1988 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-M21	2447326.50	1988 Jun 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M22	2447327.50	1988 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M75	2447327.50	1988 Jun 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M23	2447328.50	1988 Jun 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M24	2447329.50	1988 Jun 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M25	2447330.50	1988 Jun 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M26	2447331.50	1988 Jun 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M27	2447332.50	1988 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M28	2447333.50	1988 Jun 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M29	2447334.50	1988 Jun 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M76	2447334.50	1988 Jun 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M30	2447335.50	1988 Jun 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M31	2447336.50	1988 Jun 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M32	2447337.50	1988 Jun 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M33	2447338.50	1988 Jun 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M34	2447339.50	1988 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M35	2447340.50	1988 Jun 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M36	2447341.50	1988 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M77	2447341.50	1988 Jun 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M37	2447342.50	1988 Jun 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M38	2447343.50	1988 Jul 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M39	2447344.50	1988 Jul 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M40	2447345.50	1988 Jul 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M41	2447346.50	1988 Jul 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M42	2447347.50	1988 Jul 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M43	2447348.50	1988 Jul 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M44	2447349.50	1988 Jul 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M78	2447349.50	1988 Jul 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M45	2447350.50	1988 Jul 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M46	2447351.50	1988 Jul 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M47	2447352.50	1988 Jul 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M48	2447353.50	1988 Jul 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M49	2447354.50	1988 Jul 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	CurrSci89,475	-	-
1988-M79	2447355.50	1988 Jul 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M80	2447362.50	1988 Jul 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M81	2447369.50	1988 Jul 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M82	2447376.50	1988 Aug 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M83	2447383.50	1988 Aug 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M84	2447390.50	1988 Aug 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M85	2447399.50	1988 Aug 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M86	2447404.50	1988 Aug 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M87	2447411.50	1988 Sep 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M88	2447418.50	1988 Sep 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M89	2447425.50	1988 Sep 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M90	2447432.50	1988 Sep 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M91	2447439.50	1988 Oct 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M92	2447446.50	1988 Oct 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M93	2447460.50	1988 Oct 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M94	2447467.50	1988 Nov 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M95	2447475.50	1988 Nov 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M96	2447481.50	1988 Nov 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M97	2447489.50	1988 Nov 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M98	2447495.50	1988 Nov 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M99	2447502.50	1988 Dec 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M100	2447509.50	1988 Dec 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M101	2447516.50	1988 Dec 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1988-M102	2447524.50	1988 Dec 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M13	2447530.50	1989 Jan 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M14	2447544.50	1989 Jan 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M15	2447551.50	1989 Jan 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M16	2447558.50	1989 Feb 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M17	2447565.50	1989 Feb 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M18	2447572.50	1989 Feb 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M59	2447577.50	1989 Feb 20	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M19	2447579.50	1989 Feb 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M20	2447586.50	1989 Mar 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M21	2447593.50	1989 Mar 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M22	2447600.50	1989 Mar 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M23	2447607.50	1989 Mar 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M24	2447614.50	1989 Mar 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M25	2447621.50	1989 Apr 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M26	2447629.50	1989 Apr 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M27	2447635.50	1989 Apr 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M28	2447642.50	1989 Apr 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M29	2447649.50	1989 May 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M30	2447663.50	1989 May 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M31	2447671.50	1989 May 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M32	2447677.50	1989 May 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M33	2447684.50	1989 Jun 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M34	2447691.50	1989 Jun 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M35	2447698.50	1989 Jun 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M36	2447705.50	1989 Jun 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M37	2447712.50	1989 Jul 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M38	2447726.50	1989 Jul 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M39	2447740.50	1989 Aug 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M60	2447741.50	1989 Aug 3	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-M61	2447742.50	1989 Aug 4	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M40	2447754.50	1989 Aug 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M41	2447761.50	1989 Aug 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M42	2447768.50	1989 Aug 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M43	2447775.50	1989 Sep 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M44	2447782.50	1989 Sep 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M45	2447789.50	1989 Sep 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M46	2447796.50	1989 Sep 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M47	2447803.50	1989 Oct 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M48	2447810.50	1989 Oct 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M49	2447817.50	1989 Oct 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M50	2447824.50	1989 Oct 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M51	2447831.50	1989 Nov 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M62	2447837.50	1989 Nov 7	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M63	2447837.50	1989 Nov 7	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M52	2447845.50	1989 Nov 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M53	2447853.50	1989 Nov 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M54	2447859.50	1989 Nov 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M55	2447867.50	1989 Dec 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M56	2447874.50	1989 Dec 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M64	2447879.50	1989 Dec 19	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M65	2447880.50	1989 Dec 20	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1989-M57	2447881.50	1989 Dec 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1989-M58	2447887.50	1989 Dec 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M18	2447894.50	1990 Jan 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M19	2447901.50	1990 Jan 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M20	2447908.50	1990 Jan 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M21	2447915.50	1990 Jan 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-S32	2447918.06	1990 Jan 26 1325	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M01	2447921.04	1990 Jan 29 1300	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M02	2447923.05	1990 Jan 31 1310	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M03	2447925.04	1990 Feb 2 1300	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M04	2447928.04	1990 Feb 5 1300	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M05	2447930.06	1990 Feb 7 1320	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M06	2447932.04	1990 Feb 9 1300	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M07	2447935.05	1990 Feb 12 1307	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M08	2447937.05	1990 Feb 14 1305	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M09	2447939.06	1990 Feb 16 1323	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M10	2447942.05	1990 Feb 19 1308	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-S43	2447944.08	1990 Feb 21 1359	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M11	2447946.08	1990 Feb 23 1350	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-S49	2447949.08	1990 Feb 26 1355	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M12	2447951.05	1990 Feb 28 1305	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M13	2447953.05	1990 Mar 2 1305	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M14	2447956.05	1990 Mar 5 1305	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M15	2447958.04	1990 Mar 7 1300	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M16	2447960.05	1990 Mar 9 1315	RH-200	-	-	0.000	ISRO	SS	-	PRL/TSAO/	Meteo	ESA-SP317-381	-	-
1990-M22	2447964.50	1990 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M23	2447971.50	1990 Mar 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M24	2447979.50	1990 Mar 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M25	2447985.50	1990 Apr 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M26	2447993.50	1990 Apr 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M27	2447999.50	1990 Apr 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M28	2448006.50	1990 Apr 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M29	2448013.50	1990 May 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M30	2448021.50	1990 May 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M44	2448026.50	1990 May 15	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1990-M45	2448027.50	1990 May 16	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1990-M46	2448027.50	1990 May 16	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1990-M47	2448027.50	1990 May 16	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1990-M31	2448027.50	1990 May 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M32	2448034.50	1990 May 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M33	2448041.50	1990 May 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M34	2448048.50	1990 Jun 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M35	2448055.50	1990 Jun 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M36	2448062.50	1990 Jun 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M37	2448069.50	1990 Jun 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M38	2448077.50	1990 Jul 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M39	2448083.50	1990 Jul 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M40	2448090.50	1990 Jul 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M41	2448097.50	1990 Jul 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M42	2448104.50	1990 Aug 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1990-M43	2448111.50	1990 Aug 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	IJSRP18,224	-	-
1992-M03	2448909.50	1992 Oct 14	RH-200	?	-	0.000	ISRO	SS	-	ISRO/	Test	SN930222-7	-	-
1992-M04	2448914.50	1992 Oct 19	RH-200	?	-	0.000	ISRO	SS	-	ISRO/	Test	SN930222-7	-	-
1993-M01	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M02	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M03	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M04	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M05	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M06	2448987.50	1993	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	ISRO93-94	-	-
1993-M08	2449075.50	1993 Mar 29	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1993-M09	2449075.50	1993 Mar 29	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1993-M10	2449076.50	1993 Mar 30	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1994-M02	2449371.50	1994 Jan 19	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1994-M03	2449372.50	1994 Jan 20	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1996-M05	2450365.50	1996 Oct 9	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1996-M06	2450366.50	1996 Oct 10	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
1996-M07	2450367.50	1996 Oct 11	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M03	2451595.50	2000 Feb 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M04	2451596.50	2000 Feb 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M05	2451597.50	2000 Feb 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M06	2451598.50	2000 Feb 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M07	2451599.50	2000 Feb 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M08	2451600.50	2000 Feb 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M09	2451602.50	2000 Feb 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M10	2451603.50	2000 Feb 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M11	2451604.50	2000 Mar 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M12	2451605.50	2000 Mar 2	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M13	2451606.50	2000 Mar 3	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M14	2451607.50	2000 Mar 4	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M15	2451608.50	2000 Mar 5	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M16	2451609.50	2000 Mar 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M17	2451610.50	2000 Mar 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M18	2451611.50	2000 Mar 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M19	2451612.50	2000 Mar 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M20	2451613.50	2000 Mar 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M21	2451614.50	2000 Mar 11	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M22	2451615.50	2000 Mar 12	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M23	2451616.50	2000 Mar 13	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M24	2451617.50	2000 Mar 14	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M25	2451618.50	2000 Mar 15	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M26	2451619.50	2000 Mar 16	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M27	2451620.50	2000 Mar 17	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M28	2451621.50	2000 Mar 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M29	2451622.50	2000 Mar 19	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M30	2451623.50	2000 Mar 20	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M31	2451624.50	2000 Mar 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M32	2451625.50	2000 Mar 22	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M33	2451626.50	2000 Mar 23	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M34	2451627.50	2000 Mar 24	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M35	2451628.50	2000 Mar 25	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M36	2451629.50	2000 Mar 26	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M37	2451630.50	2000 Mar 27	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M38	2451631.50	2000 Mar 28	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M39	2451632.50	2000 Mar 29	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M40	2451633.50	2000 Mar 30	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M41	2451634.50	2000 Mar 31	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M42	2451635.50	2000 Apr 1	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.spacedaily.com	-	-
2000-M54	2451653.50	2000 Apr 19	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M55	2451654.50	2000 Apr 20	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M56	2451680.50	2000 May 16	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M57	2451709.50	2000 Jun 14	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M58	2451723.50	2000 Jun 28	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2000-M59	2451737.50	2000 Jul 12	RH-200	-	RH-200	0.000	ISRO	SS	-	ISRO/	Meteo	SDSC-SR	-	-
2001-M01	2451909.50	2001	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.isro.org	-	-
2001-M02	2451909.50	2001	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.isro.org	-	-
2001-M03	2451909.50	2001	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.isro.org	-	-
2001-S01	2451959.50	2001 Feb 19	RH-200SV	-	RH-200SV-1	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2001-S02	2452060.50	2001 May 31	RH-200SV	-	RH-200SV-2	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2001-S69	2452239.50	2001 Nov 26	RH-200SV	-	RH-200SV-3	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2002-S87	2452368.50	2002 Apr 4	RH-200SV	-	RH-200SV-4	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2002-M01	2452499.08	2002 Aug 12 1348	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	Wire	-	-
2002-M02	2452599.50	2002 Nov 21	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	www.isro.org	-	-
2003-S62	2452718.50	2003 Mar 20	RH-200SV	-	RH-200SV-5	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2003-S54	2452822.50	2003 Jul 2	RH-200SV	-	RH-200SV-6	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2003-M02	2452964.94	2003 Nov 21 1030?	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	thehindubusinessline	-	-
2004-S83	2453012.50	2004 Jan 8	RH-200SV	-	RH-200SV-7	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2004-S84	2453124.50	2004 Apr 29	RH-200SV	-	RH-200SV-8	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2004-M09	2453209.78	2004 Jul 23 0645	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	narl.gov.in	AnNGeo26,2725	-
2004-M03	2453258.96	2004 Sep 10 1100	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	TERLSPrivCom	-	-
2004-M04	2453272.50	2004 Sep 24?	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	TERLSPrivCom	-	-
2004-M07	2453284.50	2004 Oct 6	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	TERLSPrivCom	-	-
2005-M08	2453468.77	2005 Apr 8 0630	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	narl.gov.in	-	-
2005-S65	2453530.50	2005 Jun 9	RH-200SV	-	RH-200SV-9	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2005-M09	2453634.50	2005 Sep 21	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2006-M07	2453774.83	2006 Feb 8 0800	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-M08	2453789.00	2006 Feb 22 1200	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-M09	2453802.67	2006 Mar 8 0405	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-M10	2453816.51	2006 Mar 22 0012	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-M11	2453831.17	2006 Apr 5 1600	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-M12	2453843.33	2006 Apr 17 2000	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Aeron	JASTP75,98	-	-
2006-S28	2453905.53	2006 Jun 19 0045:56	RH-200SV	-	-	0.000	ARR	SF	U	TROM/	Aeron/Test	www.rocketrange.no	Rodriguez07	-
2006-S80	2453906.50	2006 Jun 20	RH-200SV	-	RH-200SV-10	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2006-S81	2453907.50	2006 Jun 21	RH-200SV	-	RH-200SV-11	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
2007-M03	2454161.44	2007 Mar 1 2228:29	RH-200SV	-	-	0.000	ARR	SS	-	TROM/Havnes	Test/Aeron	Rodriguez07	-	-
2008-M01	2454553.50	2008 Mar 28	RH-200SV	-	-	0.000	ARR	SS	-	TROM/Havnes	Aeron	nasaspaceflight.com	-	-
2010-M01	2455210.82	2010 Jan 14 0737	RH-200	-	-	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-M02	2455210.90	2010 Jan 14 0930	RH-200	-	-	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-M03	2455211.81	2010 Jan 15 0730?	RH-200	-	-	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-M04	2455211.90	2010 Jan 15 0930?	RH-200	-	-	0.000	ISRO	SS	-	VSSC/	Eclipse	www.isro.org	-	-
2010-M06	2455384.93	2010 Jul 7 1020	RH-200	-	TDF (RH-200-395)	0.000	ISRO	SS	-	VSSC/	Test/Edu	www.isro.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-M03	2455699.50	2011 May 18	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	Wire	-	-
2013-M07	2456618.04	2013 Nov 21 1255	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	Hindu131121	ISROAnnual13-14	-
2014-M05	2456937.50	2014 Oct 7	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	www.isro.org	-	-
2014-M06	2456938.50	2014 Oct 8	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	www.isro.org	-	-
2014-M07	2456939.50	2014 Oct 9	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	www.isro.org	-	-
2014-M08	2456940.50	2014 Oct 10	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	www.isro.org	-	-
2015-M04	2457218.50	2015 Jul 15	RH-200	-	No. 1545	0.000	ISRO	SS	-	ISRO/	Meteo	www.isro.org	-	-
2016-M06	2457665.50	2016 Oct 4	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2016-M07	2457666.50	2016 Oct 5	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2016-M08	2457667.50	2016 Oct 6	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2017-M09	2458031.50	2017 Oct 5	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2017-M10	2458032.50	2017 Oct 6	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2017-M11	2458033.50	2017 Oct 7	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2017-M12	2458035.50	2017 Oct 9	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2018-M08	2458396.50	2018 Oct 5	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2018-M09	2458400.50	2018 Oct 9	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2019-M13	2458620.50	2019 May 17	RH-200	-	-	0.000	ISRO	SS	-	SDSC/	Aeron	SDSC-SR	-	-
2020-M10	2459108.78	2020 Sep 16 0647	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Test	isro.gov.in	-	-
2022-M31	2459906.77	2022 Nov 23 0625	RH-200	-	-	0.000	ISRO	SS	-	ISRO/	Meteo	isro.gov.in	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A136	2439814.62	1967 Nov 20 0300	RH-75	-	1	TERLS-54?	-	-	-	TERLS	-	-	-	9	-	-
1967-A137	2439814.67	1967 Nov 20 0400	RH-75	-	2	-	-	-	-	TERLS	-	-	-	9?	-	-
1967-A139	2439824.50	1967 Dec?	RH-75	-	3	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A47	2439855.50	1968 Jan	RH-75	-	4?	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A48	2439855.50	1968 Jan?	RH-75	-	5?	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A49	2439855.50	1968 Jan?	RH-75	-	6?	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A54	2439886.50	1968 Feb?	RH-75	-	7	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A55	2439886.50	1968 Feb	RH-75	-	8	-	-	-	-	TERLS	-	-	-	9?	-	-
1968-A95	2440115.50	1968 Sep 16	RH-75	-	-	Accelerometer	-	-	-	TERLS	-	-	-	9	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A136	2439814.62	1967 Nov 20 0300	RH-75	-	1	0.000	ISRO	SS	-	ISRO/	Test	RajNotes	-	-
1967-A137	2439814.67	1967 Nov 20 0400	RH-75	-	2	0.000	ISRO	SS	-	ISRO/	Test	RajNotes	-	-
1967-A139	2439824.50	1967 Dec?	RH-75	-	3	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A47	2439855.50	1968 Jan	RH-75	-	4?	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A48	2439855.50	1968 Jan?	RH-75	-	5?	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A49	2439855.50	1968 Jan?	RH-75	-	6?	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A54	2439886.50	1968 Feb?	RH-75	-	7	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A55	2439886.50	1968 Feb	RH-75	-	8	0.000	ISRO	SS	-	ISRO/	Test	Alway	-	-
1968-A95	2440115.50	1968 Sep 16	RH-75	-	-	0.000	ISRO	SS	-	ISRO/	Test	RajNotes	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-F02	2459955.48	2023 Jan 10 2327:31	RS1	-	1	Varisat 1A/1B	-	-	-	PSCA	LP3C	-	-	0?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-F02	2459955.48	2023 Jan 10 2327:31	RS1	-	1	0.022	ABLSS	OF	S1P	C	Sat SSO L	Wire	-	Fire caused elec fail

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A218	2438515.50	1964 May?	RT-15M	-	-	4K22 K1.9 BR-I-1	-	-	-	CHM	PSD-7	-	-	1?	-	CHM
1964-A219	2438515.50	1964 May?	RT-15M	-	-	4K22 K1.10 BR-I-2	-	-	-	CHM	PSD-7	-	-	1?	-	CHM
1965-S485	2439003.50	1965 Sep	RT-15M	-	-	-	-	-	-	GTsP-4	LC84?	-	-	1000?	-	-
1965-S14	2439033.50	1965 Q4?	RT-15M	-	-	-	-	-	-	GTsP-4	-	-	-	1000?	-	-
1966-S811	2439463.50	1966 Dec 4	RT-15	-	IRS	8K96 BR	-	-	-	GTsP-4	LC84	-	-	1?	-	GTsP-4
1967-S775	2439530.50	1967 Feb 9	RT-15	-	1	8K96 LKI-I-1	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1967-S12	2439580.50	1967 Q2?	RT-15	-	2	8K96 LKI-I-2	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1967-S13	2439580.50	1967 Q2?	RT-15	-	3	8K96 LKI-I-3	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1967-S14	2439702.50	1967 Aug	RT-15	-	4	8K96 LKI-I-4	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S29	2439855.50	1968 Jan	RT-15	-	5	8K96 LKI-II-1	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S30	2439855.50	1968	RT-15	-	6	8K96 LKI-II-2	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S31	2439855.50	1968	RT-15	-	7	8K96 LKI-II-3	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S32	2439855.50	1968	RT-15	-	8	8K96 LKI-II-4	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S33	2439855.50	1968	RT-15	-	9	8K96 LKI-II-5	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S34	2439855.50	1968	RT-15	-	10	8K96 LKI-II-6	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S35	2439855.50	1968	RT-15	-	11	8K96 LKI-II-7	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S36	2439855.50	1968	RT-15	-	12	8K96 LKI-II-8	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S773	2439855.50	1968?	RT-15	-	-	8K96 LKI-II-9	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1968-S774	2439855.50	1968?	RT-15	-	-	8K96 LKI-II-10	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1969-S19	2440221.50	1969	RT-15	-	13	8K96 LKI-II-11?	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1969-S20	2440221.50	1969	RT-15	-	14	8K96 LKI-II-12?	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1969-S21	2440221.50	1969	RT-15	-	15	8K96 LKI-II-13?	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1970-S777	2440586.50	1970	RT-15	-	18	8K96 LKI-II-14?	-	-	-	GTsP-4	LC84	-	-	1000?	-	BALKH
1970-S16	2440617.50	1970 Feb	RT-15	-	19	8K96 LKI-II-15	-	-	-	GTsP-4	-	-	-	1000?	-	BALKH
1970-S172	2440645.50	1970 Mar	RT-15	-	20?	-	-	-	-	GTsP-4	-	-	-	1000?	-	BALKH?

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A218	2438515.50	1964 May?	RT-15M	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1964-A219	2438515.50	1964 May?	RT-15M	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
1965-S485	2439003.50	1965 Sep	RT-15M	-	-	0.000	RVSN	MS	-	-	Test	www.fas.org	NevskiyBastion9901	-
1965-S14	2439033.50	1965 Q4?	RT-15M	-	-	0.000	RVSN	MS	-	-	Test	JCM	-	-
1966-S811	2439463.50	1966 Dec 4	RT-15	-	IRS	0.000	RVSN	MS	-	-	Test	RML	KY60	-
1967-S775	2439530.50	1967 Feb 9	RT-15	-	1	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S12	2439580.50	1967 Q2?	RT-15	-	2	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S13	2439580.50	1967 Q2?	RT-15	-	3	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S14	2439702.50	1967 Aug	RT-15	-	4	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S29	2439855.50	1968 Jan	RT-15	-	5	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S30	2439855.50	1968	RT-15	-	6	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S31	2439855.50	1968	RT-15	-	7	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S32	2439855.50	1968	RT-15	-	8	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S33	2439855.50	1968	RT-15	-	9	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S34	2439855.50	1968	RT-15	-	10	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S35	2439855.50	1968	RT-15	-	11	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S36	2439855.50	1968	RT-15	-	12	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S773	2439855.50	1968?	RT-15	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S774	2439855.50	1968?	RT-15	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S19	2440221.50	1969	RT-15	-	13	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S20	2440221.50	1969	RT-15	-	14	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S21	2440221.50	1969	RT-15	-	15	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S777	2440586.50	1970	RT-15	-	18	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S16	2440617.50	1970 Feb	RT-15	-	19	0.000	RVSN	MS	-	-	Test	KY60	RML	-
1970-S172	2440645.50	1970 Mar	RT-15	-	20?	0.000	RVSN	MS	-	-	Test	www.fas.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A239	2437723.50	1962 Mar	RT-1	-	IRS	8K95 BR-1	-	-	-	GTsP-4	LC84	-	-	1?	-	GTsP-4
1962-S114	2437782.50	1962 Apr 28	RT-1	-	-	8K95 LKI-1	-	-	-	GTsP-4	LC84	-	-	10?	-	(BALKH)
1962-A269	2437808.50	1962 May 24	RT-1	-	-	8K95 LKI-2	-	-	-	GTsP-4	LC84	-	-	40?	-	(BALKH)
1962-A270	2437845.50	1962 Q3?	RT-1	-	-	8K95 LKI-3	-	-	-	GTsP-4	LC84	-	-	0?	-	(BALKH)
1962-A271	2437845.50	1962 Q3?	RT-1	-	-	8K95 LKI-4	-	-	-	GTsP-4	LC84	-	-	40?	-	(BALKH)
1963-S619	2438106.50	1963 Mar 18	RT-1	-	-	8K95 LKI-5	-	-	-	GTsP-4	LC84	-	-	500?	-	BALKH
1963-S664	2438144.50	1963 Apr 25	RT-1	-	-	8K95 LKI-6	-	-	-	GTsP-4	LC84	-	-	500?	-	BALKH
1963-S665	2438160.50	1963 May 11	RT-1	-	-	8K95 LKI-7	-	-	-	GTsP-4	LC84	-	-	500?	-	BALKH
1963-A240	2438180.50	1963 Jun?	RT-1	-	-	8K95 LKI-8	-	-	-	GTsP-4	LC84	-	-	0?	-	(BALKH)
1963-S07	2438180.50	1963 Jun	RT-1	-	-	8K95 LKI-9	-	-	-	GTsP-4	LC84	-	-	500?	-	BALKH
1965-A129	2439003.50	1965 Sep	RT-1	-	RT-1-1963	8K95-1963 LKI-1	-	-	-	GTsP-4	LC84	-	-	10?	-	(BALKH)
1965-S529	2439033.50	1965 Oct?	RT-1	-	RT-1-1963	8K95-1963 LKI-2	-	-	-	GTsP-4	LC84	-	-	500?	-	BALKH
1965-A151	2439064.50	1965 Nov	RT-1	-	RT-1-1963	8K95-1963 LKI-3	-	-	-	GTsP-4	LC84	-	-	10?	-	(BALKH)
1965-A238	2439125.50	1965 Dec 31	RT-2	-	IRS	8K98 LKI-BR RT-2	-	-	-	GTsP-4	LC86	-	-	1?	-	GTsP-4
1966-S135	2439182.50	1966 Feb 26	RT-2	-	8L?	8K98 LKI-1 1	MGCh 15F1	-	-	GTsP-4	LC86	-	-	1000?	-	BALKH
1966-S13	2439184.50	1966 Mar?	RT-2	-	9L?	8K98 LKI-1 2	MGCh 15F1	-	-	GTsP-4	LC86	-	-	1000?	-	BALKH
1966-S14	2439215.50	1966 Mar 31?	RT-2	-	10L?	8K98 LKI-1 3	MGCh 15F1	-	-	GTsP-4	PL87	-	-	1000?	-	BALKH
1966-A590	2439235.50	1966 Apr 20?	RT-2	-	11L?	8K98 LKI-1 4	MGCh 15F1	-	-	GTsP-4	PL87	-	-	0?	-	(BALKH)
1966-S15	2439245.50	1966 May?	RT-2	-	12L?	8K98 LKI-1 5	MGCh 15F1	-	-	GTsP-4	PL87	-	-	1000?	-	BALKH
1966-S773	2439307.50	1966 Jul 1	RT-2	-	14L?	8K98 LKI-1 6	MGCh 15F1	-	-	GTsP-4	PL87	-	-	1000?	-	BALKH
1966-S356	2439321.50	1966 Jul 15	RT-2	-	15L?	8K98 LKI-1 7	MGCh 15F1	-	-	GTsP-4	PL87	-	-	1000?	-	BALKH
1966-S585	2439433.83	1966 Nov 4 0802?	RT-2	-	N10300-18L	8K98 LKI-2-1	MGCh 15F1	-	-	NIIP-53	LC161/1	-	-	1000?	-	Kura
1966-S727	2439482.83	1966 Dec 23 0800	RT-2	-	-	8K98 LKI-2-2	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1?	-	(Kura)
1966-S728	2439487.83	1966 Dec 28 0800	RT-2	-	-	8K98 LKI-2-3	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	100?	-	(Kura)
1967-S17	2439547.42	1967 Feb 25 2200	RT-2	-	-	8K98 LKI-2-4	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1?	-	(Kura)
1967-S18	2439600.29	1967 Apr 19 1900	RT-2	-	Ya23102-27L	8K98 LKI-2-5	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura?
1967-S19	2439609.42	1967 Apr 28 2200	RT-2	-	Ya23101-28L	8K98 LKI-2-6	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1000?	-	Kura
1967-S20	2439630.83	1967 May 20 0800	RT-2	-	-	8K98 LKI-2-7	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1?	-	(Kura)
1967-S21	2439658.81	1967 Jun 17 0730	RT-2	-	Ya10300-23L	8K98 LKI-2-8	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1000?	-	Kura
1967-S22	2439676.62	1967 Jul 5 0300	RT-2	-	Ya10300-25L	8K98 LKI-2-9	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1000?	-	Kura
1967-S23	2439695.62	1967 Jul 24 0300	RT-2	-	Ya10300-24L	8K98 LKI-2-10	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1?	-	(Kura)
1967-S24	2439723.81	1967 Aug 21 0730	RT-2	-	Ya10300-26L	8K98 LKI-2-11	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	1000?	-	Kura
1967-S25	2439728.15	1967 Aug 25 1530	RT-2	-	-	8K98 LKI-2-12	MGCh 15F1	-	-	NIIP-53	LC161?	-	-	100?	-	(Kura)
1967-S730	2439741.79	1967 Sep 8 0700	RT-2	-	-	8K98 LKI-2-13	MGCh 15F1	-	-	NIIP-53	-	-	-	1?	-	(Kura)
1967-S731	2439787.27	1967 Oct 23 1830	RT-2	-	Ya23106-33L	8K98 LKI-2-14	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1967-S732	2439793.25	1967 Oct 29 1800	RT-2	-	Ya23103-30L	8K98 LKI-2-15	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1967-S733	2439823.48	1967 Nov 28 2330	RT-2	-	Ya23104-31L	8K98 LKI-2-16	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1967-S734	2439824.48	1967 Nov 29 2330	RT-2	-	-	8K98 LKI-2-17	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S42	2439937.62	1968 Mar 22 0300	RT-2	-	Ya23105-32L	8K98 LKI-2-18	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S43	2439944.42	1968 Mar 28 2200	RT-2	-	-	8K98 LKI-2-19	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S45	2440034.58	1968 Jun 27 0200	RT-2	-	Ya23110-37L	8K98 LKI-2-20	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S46	2440044.42	1968 Jul 6 2200	RT-2	-	Ya23109-36L	8K98 LKI-2-21	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S476	2440092.44	1968 Aug 23 2240	RT-2	-	Ya23113-40L	8K98 LKI-2-22	MGCh 15F1	-	-	NIIP-53	LC161/1-1?	-	-	1000?	-	Kura
1968-S477	2440092.45	1968 Aug 23 2241	RT-2	-	Ya23114-41L	8K98 LKI-2-23	MGCh 15F1	-	-	NIIP-53	LC161/1-2?	-	-	1000?	-	Kura
1968-S478	2440092.45	1968 Aug 23 2242	RT-2	-	Ya23115-42L	8K98 LKI-2-24	MGCh 15F1	-	-	NIIP-53	LC165/3-1?	-	-	1000?	-	Kura
1968-S520	2440133.29	1968 Oct 3 1900	RT-2	-	Ya23112-39L	8K98 LKI-2-25	MGCh 15F1	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S741	2440158.21	1968 Oct 28 1700	RT-2	-	V29501-04	8K98 UBP-1	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S742	2440175.19	1968 Nov 14 1630	RT-2	-	V29501-03	8K98 UBP-2	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S743	2440209.33	1968 Dec 18 2000	RT-2	-	V29501-08	8K98 UBP-3	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1968-S744	2440219.46	1968 Dec 28 2300	RT-2	-	V29502-02	8K98 UBP-4	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S813	2440231.50	1969 Jan 10 0000	RT-2	-	V29502-08	8K98 K	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S740	2440259.54	1969 Feb 7 0053	RT-2	-	Yu29501-06	8K98 UBP-5	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S741	2440426.46	1969 Jul 23 2300	RT-2	-	V 29501-09	8K98 UBP-6	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S742	2440428.33	1969 Jul 25 2000	RT-2	-	V 29502-01	8K98 UBP-7	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S743	2440461.84	1969 Aug 28 0804	RT-2	-	Yu64612-28	8K98 UBP-8	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S744	2440484.32	1969 Sep 19 1934	RT-2	-	Yu29501-08	8K98 UBP-9	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1969-S745	2440549.79	1969 Nov 24 0704	RT-2	-	Yu45713-21	8K98 UBP-10	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S70	2440603.34	1970 Jan 16 2003	RT-2P	-	Yu64913-3L	8K98P LKI-1	MGCh 15F982	-	-	NIIP-53	LC161/ShPU-2	-	-	1000?	-	Kura
1970-S708	2440634.84	1970 Feb 17 0810	RT-2P	-	Yu52614-4L	8K98P LKI-2	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S707	2440655.29	1970 Mar 9 1903	RT-2	-	Kh29521-32	8K98 UBP-11	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1970-S712	2440687.17	1970 Apr 10 1600	RT-2P	-	Yu26515-5L	8K98P LKI-3	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S709	2440725.21	1970 May 18 1704	RT-2P	-	Yu64916-6L	8K98P LKI-4	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S710	2440746.25	1970 Jun 8 1800	RT-2P	-	Kh52621-7L	8K98P LKI-5	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S706	2440776.21	1970 Jul 8 1700	RT-2P	-	Kh26522-8L	8K98P LKI-6	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S713	2440797.21	1970 Jul 29 1707	RT-2	-	V 29501-01	8K98 UBP-12	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S587	2440806.07	1970 Aug 7 1340	RT-2P	-	Kh64923-9L	8K98P LKI-7	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S714	2440816.67	1970 Aug 18 0400	RT-2	-	64647-221-31	8K98 UBP-13	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1970-A174	2440827.96	1970 Aug 29 1100	RT-2P	-	47827-431-11L	8K98P LKI-8	MGCh 15F982	-	-	NIIP-53	-	-	-	40?	-	(Kura)
1970-S778	2440834.15	1970 Sep 4 1530	RT-2	-	Yu45713-28	8K98 UBP-14	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S588	2440871.79	1970 Oct 12 0700	RT-2P	-	52627-432-12L	8K98P LKI-9	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-A175	2440889.62	1970 Oct 30 0300	RT-2P	-	64927-433-13L	8K98P LKI-10	MGCh 15F982	-	-	NIIP-53	-	-	-	40?	-	Kura
1970-S732	2440916.54	1970 Nov 26 0100	RT-2P	-	47827-434-14L	8K98P LKI-11	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-S733	2440918.58	1970 Nov 28 0200	RT-2P	-	52627-435-15L	8K98P LKI-12	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1970-A176	2440923.40	1970 Dec 2 2130	RT-2	-	-	8K98 UBP-15	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	40?	-	(Kura)
1971-S671	2441038.37	1971 Mar 27 2050	RT-2P	-	Kh52624-10L	8K98P LKI-13	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Pacific
1971-S673	2441069.29	1971 Apr 27 1900	RT-2	-	64647-221-38	8K98 UBP-16	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1971-A179	2441190.21	1971 Aug 26 1709	RT-2	-	-	8K98 UBP-17	MGCh 15F981	-	-	NIIP-53	-	-	-	100?	-	(Kura)
1971-S672	2441303.88	1971 Dec 18 0905	RT-2P	-	64927-436-16L	8K98P LKI-14	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Pacific
1972-S13	2441330.83	1972 Jan 14 0800	RT-2P	-	47827-437-17L	8K98P LKI-15	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1972-S491	2441636.19	1972 Nov 14 1632	RT-2	-	V 29501-06	8K98 UBP-18	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1973-S491	2442008.34	1973 Nov 21 2005	RT-2	-	Yu45713-23	8K98 UBP-19	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1973-S492	2442017.29	1973 Nov 30 1900	RT-2	-	64647-221-32	8K98 UBP-20	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1973-S493	2442029.25	1973 Dec 12 1800	RT-2	-	V 29501-11	8K98 UBP-21	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1974-S447	2442064.14	1974 Jan 16 1525	RT-2	-	29557-211-41	8K98 UBP-22	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1974-S448	2442294.85	1974 Sep 4 0825	RT-2	-	V 29501-05	8K98 UBP-23	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1974-S449	2442317.79	1974 Sep 27 0700	RT-2	-	64647-221-33	8K98 UBP-24	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S450	2442393.25	1974 Dec 11 1800	RT-2P	-	45751-612-01	8K98P UBP-1	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1974-S26	2442407.00	1974 Dec 25 1200	RT-2	-	V 29501-07	8K98 UBP-25	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1975-S365	2442425.90	1975 Jan 13 0930	RT-2P	-	45721-612-02	8K98P UBP-2	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S366	2442482.37	1975 Mar 10 2059:59	RT-2P	-	45721-612-03	8K98P UBP-3	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S367	2442637.21	1975 Aug 12 1705	RT-2P	-	64646-812-54	8K98P UBP-4	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S368	2442679.22	1975 Sep 23 1720	RT-2	-	64647-221-44	8K98 UBP-26	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S369	2442715.08	1975 Oct 29 1355	RT-2	-	64647-221-41	8K98 UBP-27	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S370	2442764.46	1975 Dec 17 2300	RT-2P	-	45721-612-04	8K98P UBP-5	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1975-S371	2442771.83	1975 Dec 25 0800	RT-2	-	64647-221-42	8K98 UBP-28	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1976-S368	2442813.44	1976 Feb 4 2240	RT-2P	-	-	8K98P UBP-6	MGCh 15F982	-	-	NIIP-53	-	-	-	40?	-	(Kura)
1976-S369	2442867.44	1976 Mar 29 2230	RT-2P	-	29542-713-04	8K98P UBP-7	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1976-S370	2443021.48	1976 Aug 30 2330	RT-2	-	V 29501-10	8K98 UBP-29	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1976-S371	2443100.11	1976 Nov 17 1445	RT-2	-	V 29502-07	8K98 UBP-30	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1976-S372	2443107.09	1976 Nov 24 1415	RT-2	-	V 29503-02	8K98 UBP-31	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1976-S373	2443120.33	1976 Dec 7 2000	RT-2P	-	-	8K98P UBP-8	MGCh 15F982	-	-	NIIP-53	-	-	-	40?	-	(Kura)
1976-S374	2443130.06	1976 Dec 17 1320	RT-2	-	V 29502-04	8K98 UBP-32	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1976-S375	2443137.02	1976 Dec 24 1225	RT-2	-	V 29503-04	8K98 UBP-33	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S360	2443203.37	1977 Feb 28 2050	RT-2	-	V 29501-12	8K98 UBP-34	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S339	2443240.67	1977 Apr 7 0400	RT-2P	-	29532-713-10	8K98P UBP-9	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1977-S340	2443255.67	1977 Apr 22 0405	RT-2P	-	45738-114-04	8K98P UBP-10	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1977-S341	2443289.83	1977 May 26 0800	RT-2	-	V 29502-06	8K98 UBP-35	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S342	2443324.77	1977 Jun 30 0630	RT-2	-	V 29503-03	8K98 UBP-36	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S343	2443380.75	1977 Aug 25 0600	RT-2P	-	45738-114-06	8K98P UBP-11	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1977-S344	2443400.55	1977 Sep 14 0106	RT-2	?	V 29503-05	8K98 UBP-12	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S345	2443415.51	1977 Sep 29 0009	RT-2	-	V 29503-01	8K98 UBP-37	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S346	2443430.97	1977 Oct 14 1110	RT-2	-	Yu29501-07	8K98 UBP-38	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1977-S347	2443505.22	1977 Dec 27 1715	RT-2	-	Yu29501-11	8K98 UBP-39	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1978-S282	2443623.85	1978 Apr 25 0830	RT-2P	-	64675-215-01	8K98P UBP-13	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1978-S283	2443646.79	1978 May 18 0656	RT-2	-	Yu29501-03	8K98 UBP-40	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1978-S284	2443682.83	1978 Jun 23 0755	RT-2	-	Yu29501-09	8K98 UBP-41	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1978-S285	2443702.06	1978 Jul 12 1332	RT-2	-	Yu29501-10	8K98 UBP-42	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1978-S286	2443720.67	1978 Jul 31 0400	RT-2P	-	64675-215-05	8K98P UBP-14	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1978-S287	2443786.75	1978 Oct 5 0600	RT-2	-	Yu29501-05	8K98 UBP-43	MGCh 15F981	-	-	NIIP-53	LC163/1/18?	-	-	1000?	-	Kura
1979-S278	2443890.42	1979 Jan 16 2200	RT-2	-	Yu64612-31	8K98 UBP-44	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S279	2443932.62	1979 Feb 28 0300	RT-2	-	Yu64612-25	8K98 UBP-45	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S280	2443980.50	1979 Apr 17	RT-2	-	Yu64612-24	8K98 UBP-46	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S281	2443988.62	1979 Apr 25 0300	RT-2P	-	29597-166-04	8K98P UBP-15	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S282	2444084.80	1979 Jul 30 0710	RT-2P	-	29597-166-05	8K98P UBP-16	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S283	2444143.19	1979 Sep 26 1640	RT-2	-	Yu29501-13	8K98 UBP-47	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S284	2444171.21	1979 Oct 24 1700	RT-2	-	Yu29501-12	8K98 UBP-48	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1979-S285	2444213.08	1979 Dec 5 1400	RT-2	-	Yu64612-26	8K98 UBP-49	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S265	2444352.66	1980 Apr 23 0345	RT-2P	-	45733-317-04	8K98P UBP-17	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S266	2444387.28	1980 May 27 1840	RT-2	-	Yu64612-30	8K98 UBP-50	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S267	2444401.32	1980 Jun 10 1940	RT-2	-	Yu64612-22	8K98 UBP-51	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S268	2444424.32	1980 Jul 3 1940	RT-2	-	Yu64612-23	8K98 UBP-52	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S269	2444478.21	1980 Aug 26 1700	RT-2P	-	-	8K98P UBP-18	MGCh 15F982	-	-	NIIP-53	-	-	-	0?	-	Kura
1980-S270	2444508.29	1980 Sep 25 1900	RT-2	-	Kh29521-31	8K98 UBP-53	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S271	2444543.32	1980 Oct 30 1945	RT-2	-	Yu45713-27	8K98 UBP-54	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1980-S272	2444572.17	1980 Nov 28 1600	RT-2	-	V29502-05	8K98 UBP-55	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S217	2444746.31	1981 May 21 1920	RT-2	-	V29502-03	8K98 UBP-56	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S218	2444771.21	1981 Jun 15 1700	RT-2P	-	45799-418-04	8K98P UBP-19	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S219	2444785.77	1981 Jun 30 0626	RT-2P	-	45763-317-09	8K98P UBP-20	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S220	2444814.69	1981 Jul 29 0432	RT-2P	-	64646-812-53	8K98P UBP-21	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S221	2444830.63	1981 Aug 14 0313	RT-2	-	29557-211-43	8K98 UBP-57	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S222	2444862.52	1981 Sep 15 0033	RT-2	-	Yu45713-29	8K98 UBP-58	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S223	2444876.48	1981 Sep 28 2326	RT-2	-	29557-211-45	8K98 UBP-59	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S224	2444920.90	1981 Nov 12 0931	RT-2	-	64647-221-34	8K98 UBP-60	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1981-S225	2444962.21	1981 Dec 23 1700	RT-2	-	Kh29521-34	8K98 UBP-61	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1982-S259	2445086.70	1982 Apr 27 0445	RT-2	-	29557-211-40	8K98 UBP-62	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1982-S260	2445202.12	1982 Aug 20 1455	RT-2	-	Kh29521-35	8K98 UBP-63	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S212	2445807.38	1984 Apr 16 2100	RT-2P	-	64646-812-51	8K98P UBP-22	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S213	2445877.40	1984 Jun 25 2130	RT-2	-	Yu45713-30	8K98 UBP-64	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S214	2445907.79	1984 Jul 26 0700	RT-2	-	Yu45713-25	8K98 UBP-65	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S215	2445933.46	1984 Aug 20 2300	RT-2	-	-	8K98 UBP-66	MGCh 15F981	-	-	NIIP-53	-	-	-	0?	-	(Kura)
1984-S216	2445944.12	1984 Aug 31 1500	RT-2P	-	-	8K98P UBP-23	MGCh 15F982	-	-	NIIP-53	-	-	-	0?	-	(Kura)
1984-S217	2446048.90	1984 Dec 14 0930	RT-2	-	29557-211-42	8K98 UBP-67	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S218	2446062.58	1984 Dec 28 0200	RT-2	-	64647-221-46	8K98 UBP-68	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S249	2446227.40	1985 Jun 10 2130	RT-2P	-	-	8K98P UBP-24	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S250	2446250.97	1985 Jul 4 1116	RT-2	-	29547-211-47	8K98 UBP-69	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S251	2446278.88	1985 Aug 1 0909	RT-2	-	64647-221-36	8K98 UBP-70	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S252	2446329.72	1985 Sep 21 0521	RT-2	-	64647-221-47	8K98 UBP-71	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S253	2446338.82	1985 Sep 30 0745	RT-2P	-	64646-812-52	8K98P UBP-25	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S166	2446455.31	1986 Jan 24 1925	RT-2	-	64647-221-35	8K98 UBP-72	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S167	2446683.56	1986 Sep 10 0130	RT-2P	-	-	8K98P UBP-26	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S187	2446689.56	1986 Sep 16 0129	RT-2P	-	-	8K98P UBP-27	MGCh 15F982	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S188	2446701.62	1986 Sep 28 0248	RT-2	-	Yu64612-21	8K98 UBP-73	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S206	2446824.65	1987 Jan 29 0330	RT-2	-	-	8K98 UBP-74	MGCh 15F981	-	-	NIIP-53	-	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A239	2437723.50	1962 Mar	RT-1	-	IRS	0.000	RVSN	MF	U	-	Test	NK0706-68	-	-
1962-S114	2437782.50	1962 Apr 28	RT-1	-	-	0.000	RVSN	MF	U	-	Test	NK9906-09	-	RML
1962-A269	2437808.50	1962 May 24	RT-1	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-A270	2437845.50	1962 Q3?	RT-1	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1962-A271	2437845.50	1962 Q3?	RT-1	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S619	2438106.50	1963 Mar 18	RT-1	-	-	0.000	RVSN	MS	-	-	Test	NK0706-68	-	-
1963-S664	2438144.50	1963 Apr 25	RT-1	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-S665	2438160.50	1963 May 11	RT-1	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1963-A240	2438180.50	1963 Jun?	RT-1	-	-	0.000	RVSN	MF	U	-	Test	Zaloga	-	-
1963-S07	2438180.50	1963 Jun	RT-1	-	-	0.000	RVSN	MS	-	-	Test	Zaloga	-	-
1965-A129	2439003.50	1965 Sep	RT-1	-	RT-1-1963	0.000	RVSN	MF	U	-	Test	www.fas.org	-	-
1965-S529	2439033.50	1965 Oct?	RT-1	-	RT-1-1963	0.000	RVSN	MS	-	-	Test	Zaloga	-	-
1965-A151	2439064.50	1965 Nov	RT-1	-	RT-1-1963	0.000	RVSN	MF	U	-	Test	www.fas.org	-	-
1965-A238	2439125.50	1965 Dec 31	RT-2	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-S135	2439182.50	1966 Feb 26	RT-2	-	8L?	0.000	RVSN	MS	-	-	Test	Pervov	NK9906-09	-
1966-S13	2439184.50	1966 Mar?	RT-2	-	9L?	0.000	RVSN	MS	-	-	Test	www.fas.org	-	-
1966-S14	2439215.50	1966 Mar 31?	RT-2	-	10L?	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-A590	2439235.50	1966 Apr 20?	RT-2	-	11L?	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-S15	2439245.50	1966 May?	RT-2	-	12L?	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-S773	2439307.50	1966 Jul 1	RT-2	-	14L?	0.000	RVSN	MS	-	-	Test	RML	-	-
1966-S356	2439321.50	1966 Jul 15	RT-2	-	15L?	0.000	RVSN	MS	-	-	Test	RPCB	NevskiyBastion9901	-
1966-S585	2439433.83	1966 Nov 4 0802?	RT-2	-	N10300-18L	0.000	RVSN	MS	-	-	Test	RML	NK0709-36	Zak
1966-S727	2439482.83	1966 Dec 23 0800	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1966-S728	2439487.83	1966 Dec 28 0800	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RPCB/Chertok3	Zak	-
1967-S17	2439547.42	1967 Feb 25 2200	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1967-S18	2439600.29	1967 Apr 19 1900	RT-2	-	Ya23102-27L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S19	2439609.42	1967 Apr 28 2200	RT-2	-	Ya23101-28L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S20	2439630.83	1967 May 20 0800	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1967-S21	2439658.81	1967 Jun 17 0730	RT-2	-	Ya10300-23L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S22	2439676.62	1967 Jul 5 0300	RT-2	-	Ya10300-25L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S23	2439695.62	1967 Jul 24 0300	RT-2	-	Ya10300-24L	0.000	RVSN	MF	U	-	Test	RML	-	-
1967-S24	2439723.81	1967 Aug 21 0730	RT-2	-	Ya10300-26L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S25	2439728.15	1967 Aug 25 1530	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1967-S730	2439741.79	1967 Sep 8 0700	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1967-S731	2439787.27	1967 Oct 23 1830	RT-2	-	Ya23106-33L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S732	2439793.25	1967 Oct 29 1800	RT-2	-	Ya23103-30L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S733	2439823.48	1967 Nov 28 2330	RT-2	-	Ya23104-31L	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-S734	2439824.48	1967 Nov 29 2330	RT-2	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S42	2439937.62	1968 Mar 22 0300	RT-2	-	Ya23105-32L	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S43	2439944.42	1968 Mar 28 2200	RT-2	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S45	2440034.58	1968 Jun 27 0200	RT-2	-	Ya23110-37L	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S46	2440044.42	1968 Jul 6 2200	RT-2	-	Ya23109-36L	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S476	2440092.44	1968 Aug 23 2240	RT-2	-	Ya23113-40L	0.000	RVSN	MS	-	-	Test	RML	NevskiyBastion9901	-
1968-S477	2440092.45	1968 Aug 23 2241	RT-2	-	Ya23114-41L	0.000	RVSN	MS	-	-	Test	RML	NevskiyBastion9901	-
1968-S478	2440092.45	1968 Aug 23 2242	RT-2	-	Ya23115-42L	0.000	RVSN	MS	-	-	Test	RML	NevskiyBastion9901	-
1968-S520	2440133.29	1968 Oct 3 1900	RT-2	-	Ya23112-39L	0.000	RVSN	MS	-	-	Test	RML	Chertok3	-
1968-S741	2440158.21	1968 Oct 28 1700	RT-2	-	V29501-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S742	2440175.19	1968 Nov 14 1630	RT-2	-	V29501-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S743	2440209.33	1968 Dec 18 2000	RT-2	-	V29501-08	0.000	RVSN	MS	-	-	Test	RML	-	orNov18
1968-S744	2440219.46	1968 Dec 28 2300	RT-2	-	V29502-02	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S813	2440231.50	1969 Jan 10 0000	RT-2	-	V29502-08	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S740	2440259.54	1969 Feb 7 0053	RT-2	-	Yu29501-06	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S741	2440426.46	1969 Jul 23 2300	RT-2	-	V 29501-09	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S742	2440428.33	1969 Jul 25 2000	RT-2	-	V 29502-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S743	2440461.84	1969 Aug 28 0804	RT-2	-	Yu64612-28	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S744	2440484.32	1969 Sep 19 1934	RT-2	-	Yu29501-08	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-S745	2440549.79	1969 Nov 24 0704	RT-2	-	Yu45713-21	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S70	2440603.34	1970 Jan 16 2003	RT-2P	-	Yu64913-3L	0.000	RVSN	MS	-	-	Test	Pervov	NK0709-36	-
1970-S708	2440634.84	1970 Feb 17 0810	RT-2P	-	Yu52614-4L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S707	2440655.29	1970 Mar 9 1903	RT-2	-	Kh29521-32	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S712	2440687.17	1970 Apr 10 1600	RT-2P	-	Yu26515-5L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S709	2440725.21	1970 May 18 1704	RT-2P	-	Yu64916-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S710	2440746.25	1970 Jun 8 1800	RT-2P	-	Kh52621-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S706	2440776.21	1970 Jul 8 1700	RT-2P	-	Kh26522-8L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S713	2440797.21	1970 Jul 29 1707	RT-2	-	V 29501-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S587	2440806.07	1970 Aug 7 1340	RT-2P	-	Kh64923-9L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S714	2440816.67	1970 Aug 18 0400	RT-2	-	64647-221-31	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-A174	2440827.96	1970 Aug 29 1100	RT-2P	-	47827-431-11L	0.000	RVSN	MF	U	-	Test	RML	-	-
1970-S778	2440834.15	1970 Sep 4 1530	RT-2	-	Yu45713-28	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S588	2440871.79	1970 Oct 12 0700	RT-2P	-	52627-432-12L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-A175	2440889.62	1970 Oct 30 0300	RT-2P	-	64927-433-13L	0.000	RVSN	MF	U	-	Test	RML	-	-
1970-S732	2440916.54	1970 Nov 26 0100	RT-2P	-	47827-434-14L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-S733	2440918.58	1970 Nov 28 0200	RT-2P	-	52627-435-15L	0.000	RVSN	MS	-	-	Test	RML	-	-
1970-A176	2440923.40	1970 Dec 2 2130	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1971-S671	2441038.37	1971 Mar 27 2050	RT-2P	-	Kh52624-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-S673	2441069.29	1971 Apr 27 1900	RT-2	-	64647-221-38	0.000	RVSN	MS	-	-	Test	RML	-	-
1971-A179	2441190.21	1971 Aug 26 1709	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1971-S672	2441303.88	1971 Dec 18 0905	RT-2P	-	64927-436-16L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S13	2441330.83	1972 Jan 14 0800	RT-2P	-	47827-437-17L	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S491	2441636.19	1972 Nov 14 1632	RT-2	-	V 29501-06	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S491	2442008.34	1973 Nov 21 2005	RT-2	-	Yu45713-23	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S492	2442017.29	1973 Nov 30 1900	RT-2	-	64647-221-32	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S493	2442029.25	1973 Dec 12 1800	RT-2	-	V 29501-11	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S447	2442064.14	1974 Jan 16 1525	RT-2	-	29557-211-41	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S448	2442294.85	1974 Sep 4 0825	RT-2	-	V 29501-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S449	2442317.79	1974 Sep 27 0700	RT-2	-	64647-221-33	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S450	2442393.25	1974 Dec 11 1800	RT-2P	-	45751-612-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S26	2442407.00	1974 Dec 25 1200	RT-2	-	V 29501-07	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S365	2442425.90	1975 Jan 13 0930	RT-2P	-	45721-612-02	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S366	2442482.37	1975 Mar 10 2059:59	RT-2P	-	45721-612-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S367	2442637.21	1975 Aug 12 1705	RT-2P	-	64646-812-54	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S368	2442679.22	1975 Sep 23 1720	RT-2	-	64647-221-44	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S369	2442715.08	1975 Oct 29 1355	RT-2	-	64647-221-41	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S370	2442764.46	1975 Dec 17 2300	RT-2P	-	45721-612-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S371	2442771.83	1975 Dec 25 0800	RT-2	-	64647-221-42	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S368	2442813.44	1976 Feb 4 2240	RT-2P	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1976-S369	2442867.44	1976 Mar 29 2230	RT-2P	-	29542-713-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S370	2443021.48	1976 Aug 30 2330	RT-2	-	V 29501-10	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S371	2443100.11	1976 Nov 17 1445	RT-2	-	V 29502-07	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S372	2443107.09	1976 Nov 24 1415	RT-2	-	V 29503-02	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S373	2443120.33	1976 Dec 7 2000	RT-2P	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1976-S374	2443130.06	1976 Dec 17 1320	RT-2	-	V 29502-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S375	2443137.02	1976 Dec 24 1225	RT-2	-	V 29503-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S360	2443203.37	1977 Feb 28 2050	RT-2	-	V 29501-12	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S339	2443240.67	1977 Apr 7 0400	RT-2P	-	29532-713-10	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S340	2443255.67	1977 Apr 22 0405	RT-2P	-	45738-114-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S341	2443289.83	1977 May 26 0800	RT-2	-	V 29502-06	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S342	2443324.77	1977 Jun 30 0630	RT-2	-	V 29503-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S343	2443380.75	1977 Aug 25 0600	RT-2P	-	45738-114-06	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S344	2443400.55	1977 Sep 14 0106	RT-2	?	V 29503-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S345	2443415.51	1977 Sep 29 0009	RT-2	-	V 29503-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S346	2443430.97	1977 Oct 14 1110	RT-2	-	Yu29501-07	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S347	2443505.22	1977 Dec 27 1715	RT-2	-	Yu29501-11	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S282	2443623.85	1978 Apr 25 0830	RT-2P	-	64675-215-01	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S283	2443646.79	1978 May 18 0656	RT-2	-	Yu29501-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S284	2443682.83	1978 Jun 23 0755	RT-2	-	Yu29501-09	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S285	2443702.06	1978 Jul 12 1332	RT-2	-	Yu29501-10	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S286	2443720.67	1978 Jul 31 0400	RT-2P	-	64675-215-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S287	2443786.75	1978 Oct 5 0600	RT-2	-	Yu29501-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S278	2443890.42	1979 Jan 16 2200	RT-2	-	Yu64612-31	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S279	2443932.62	1979 Feb 28 0300	RT-2	-	Yu64612-25	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S280	2443980.50	1979 Apr 17	RT-2	-	Yu64612-24	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S281	2443988.62	1979 Apr 25 0300	RT-2P	-	29597-166-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S282	2444084.80	1979 Jul 30 0710	RT-2P	-	29597-166-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S283	2444143.19	1979 Sep 26 1640	RT-2	-	Yu29501-13	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S284	2444171.21	1979 Oct 24 1700	RT-2	-	Yu29501-12	0.000	RVSN	MS	-	-	Test	RML	-	-
1979-S285	2444213.08	1979 Dec 5 1400	RT-2	-	Yu64612-26	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S265	2444352.66	1980 Apr 23 0345	RT-2P	-	45733-317-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S266	2444387.28	1980 May 27 1840	RT-2	-	Yu64612-30	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S267	2444401.32	1980 Jun 10 1940	RT-2	-	Yu64612-22	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S268	2444424.32	1980 Jul 3 1940	RT-2	-	Yu64612-23	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S269	2444478.21	1980 Aug 26 1700	RT-2P	-	-	0.000	RVSN	MF	U	-	Test	RPCA	-	-
1980-S270	2444508.29	1980 Sep 25 1900	RT-2	-	Kh29521-31	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S271	2444543.32	1980 Oct 30 1945	RT-2	-	Yu45713-27	0.000	RVSN	MS	-	-	Test	RML	-	-
1980-S272	2444572.17	1980 Nov 28 1600	RT-2	-	V29502-05	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S217	2444746.31	1981 May 21 1920	RT-2	-	V29502-03	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S218	2444771.21	1981 Jun 15 1700	RT-2P	-	45799-418-04	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S219	2444785.77	1981 Jun 30 0626	RT-2P	-	45763-317-09	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S220	2444814.69	1981 Jul 29 0432	RT-2P	-	64646-812-53	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S221	2444830.63	1981 Aug 14 0313	RT-2	-	29557-211-43	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S222	2444862.52	1981 Sep 15 0033	RT-2	-	Yu45713-29	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S223	2444876.48	1981 Sep 28 2326	RT-2	-	29557-211-45	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S224	2444920.90	1981 Nov 12 0931	RT-2	-	64647-221-34	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S225	2444962.21	1981 Dec 23 1700	RT-2	-	Kh29521-34	0.000	RVSN	MS	-	-	Test	RML	-	-
1982-S259	2445086.70	1982 Apr 27 0445	RT-2	-	29557-211-40	0.000	RVSN	MS	-	-	Test	RML	-	-
1982-S260	2445202.12	1982 Aug 20 1455	RT-2	-	Kh29521-35	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S212	2445807.38	1984 Apr 16 2100	RT-2P	-	64646-812-51	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S213	2445877.40	1984 Jun 25 2130	RT-2	-	Yu45713-30	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S214	2445907.79	1984 Jul 26 0700	RT-2	-	Yu45713-25	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S215	2445933.46	1984 Aug 20 2300	RT-2	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S216	2445944.12	1984 Aug 31 1500	RT-2P	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S217	2446048.90	1984 Dec 14 0930	RT-2	-	29557-211-42	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S218	2446062.58	1984 Dec 28 0200	RT-2	-	64647-221-46	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S249	2446227.40	1985 Jun 10 2130	RT-2P	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S250	2446250.97	1985 Jul 4 1116	RT-2	-	29547-211-47	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S251	2446278.88	1985 Aug 1 0909	RT-2	-	64647-221-36	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S252	2446329.72	1985 Sep 21 0521	RT-2	-	64647-221-47	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S253	2446338.82	1985 Sep 30 0745	RT-2P	-	64646-812-52	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S166	2446455.31	1986 Jan 24 1925	RT-2	-	64647-221-35	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S167	2446683.56	1986 Sep 10 0130	RT-2P	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S187	2446689.56	1986 Sep 16 0129	RT-2P	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S188	2446701.62	1986 Sep 28 0248	RT-2	-	Yu64612-21	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S206	2446824.65	1987 Jan 29 0330	RT-2	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A171	2439490.50	1967	RT-20P	-	IRS	8K99 BR-I	-	-	-	PAVL	-	-	-	1?	-	PAVL
1967-A122	2439787.79	1967 Oct 24 0700	RT-20P	-	4L	8K99 LKI-1	MGCh 15F993	-	-	NIIP-53	LC157	-	-	0?	-	(Bratsk)
1967-A158	2439795.83	1967 Nov 1 0800	RT-20P	-	5L	8K99 LKI-2	MGCh 15F993	-	-	NIIP-53	LC157	-	-	0?	-	(Bratsk)
1968-A60	2439898.62	1968 Feb 12 0300	RT-20P	-	7L	8K99 LKI-3	MGCh 15F993	-	-	NIIP-53	LC157	-	-	0?	-	(Bratsk)
1968-A50	2439943.62	1968 Mar 28 0300	RT-20P	-	8L	8K99 LKI-4	MGCh 15F993	-	-	NIIP-53	LC157	-	-	0?	-	(Bratsk)
1968-S47	2440026.29	1968 Jun 18 1900	RT-20P	-	V 22500-10L	8K99 LKI-5	MGCh 15F993	-	-	NIIP-53	LC157	-	-	1000?	-	Bratsk
1968-S48	2440040.25	1968 Jul 2 1800	RT-20P	-	V 22500-09L	8K99 LKI-6	MGCh 15F993	-	-	NIIP-53	LC157	-	-	1000?	-	Bratsk
1968-A51	2440085.25	1968 Aug 16 1800	RT-20P	-	11L	8K99 LKI-7	MGCh 15F993	-	-	NIIP-53	LC157?	-	-	40?	-	(Bratsk)
1968-A52	2440103.25	1968 Sep 3 1800	RT-20P	-	15L	8K99 LKI-8	MGCh 15F993	-	-	NIIP-53	LC158?	-	-	40?	-	(Kura)
1968-S49	2440151.21	1968 Oct 21 1700	RT-20P	-	14L	8K99 LKI-9	MGCh 15F993	-	-	NIIP-53	LC158?	-	-	0	-	(Kura)
1969-S22	2440403.83	1969 Jul 1 0800	RT-20P	-	V 22500-16L	8K99 LKI-10	MGCh 15F993	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1969-A01	2440425.79	1969 Jul 23 0700	RT-20P	-	Yu22500-12L	8K99 LKI-11	MGCh 15F993	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1969-A138	2440442.79	1969 Aug 9 0700	RT-20P	-	V 22500-13L	8K99 LKI-12	MGCh 15F993	-	-	NIIP-53	LC158	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A171	2439490.50	1967	RT-20P	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1967-A122	2439787.79	1967 Oct 24 0700	RT-20P	-	4L	0.000	RVSN	MF	U	-	Test	RML	NK0709-36	-
1967-A158	2439795.83	1967 Nov 1 0800	RT-20P	-	5L	0.000	RVSN	MF	U	-	Test	RML	-	-
1968-A60	2439898.62	1968 Feb 12 0300	RT-20P	-	7L	0.000	RVSN	MF	U	-	Test	RML	-	-
1968-A50	2439943.62	1968 Mar 28 0300	RT-20P	-	8L	0.000	RVSN	MF	U	-	Test	RML	-	-
1968-S47	2440026.29	1968 Jun 18 1900	RT-20P	-	V 22500-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-S48	2440040.25	1968 Jul 2 1800	RT-20P	-	V 22500-09L	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-A51	2440085.25	1968 Aug 16 1800	RT-20P	-	11L	0.000	RVSN	MF	U	-	Test	RML	-	-
1968-A52	2440103.25	1968 Sep 3 1800	RT-20P	-	15L	0.000	RVSN	MF	U	-	Test	RML	Zak	-
1968-S49	2440151.21	1968 Oct 21 1700	RT-20P	-	14L	0.000	RVSN	MF	U	-	Test	RML	Zak	-
1969-S22	2440403.83	1969 Jul 1 0800	RT-20P	-	V 22500-16L	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-A01	2440425.79	1969 Jul 23 0700	RT-20P	-	Yu22500-12L	0.000	RVSN	MS	-	-	Test	RML	-	-
1969-A138	2440442.79	1969 Aug 9 0700	RT-20P	-	V 22500-13L	0.000	RVSN	MS	-	-	Test	RML	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1948-A03	2432697.50	1948 May 26	NATIV	-	-	-	-	-	-	HADC	NATIV	-	-	1?	-	-
1948-A09	2432804.50	1948 Sep 10	NATIV	-	-	-	-	-	-	HADC	NATIV	-	-	15	-	-
1948-A38	2432839.50	1948 Oct 15	NATIV	-	-	-	-	-	-	HADC	NATIV	-	-	15	-	-
1948-A40	2432860.50	1948 Nov 5	NATIV	-	-	-	-	-	-	HADC	NATIV	-	-	0?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1948-A03	2432697.50	1948 May 26	NATIV	-	-	0.000	WADD	MF	U	-	Test	Alway-Shadow	-	-
1948-A09	2432804.50	1948 Sep 10	NATIV	-	-	0.000	WADD	MS	-	-	Test	AASH26-74	-	-
1948-A38	2432839.50	1948 Oct 15	NATIV	-	-	0.000	WADD	MS	-	-	Test	uxb.cso.uiuc.edu	-	-
1948-A40	2432860.50	1948 Nov 5	NATIV	-	-	0.000	WADD	MF	U	-	Test	AASH26-74	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-M41	2446795.50	1987	RX-250-LPN	-	-	-	-	-	-	LAP	-	-	-	70	-	-
1995-M01	2449717.50	1995	RX-250-LPN	-	-	-	-	-	-	LAP	-	-	-	70	-	-
2004-M05	2453277.53	2004 Sep 29 0050	RX-250-LPN	?	-	-	-	-	-	LAP	-	-	-	70?	-	-
2004-M06	2453277.60	2004 Sep 29 0225	RX-250-LPN	?	-	-	-	-	-	LAP	-	-	-	70?	-	-
2004-S54	2453278.42	2004 Sep 29 2200	RX-250-LPN	?	-	[unconfirmed]	-	-	-	LAP	-	-	-	100?	-	-
2004-S55	2453278.62	2004 Sep 30 0300	RX-250-LPN	?	-	[unconfirmed]	-	-	-	LAP	-	-	-	100?	-	-
2005-M01	2453522.54	2005 Jun 1 0100	RX-250-LPN	?	-	-	-	-	-	LAP	-	-	-	70?	-	-
2007-M04	2454270.50	2007 Jun 19	RX-250-LPN	-	-	-	-	-	-	LAP	-	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-M41	2446795.50	1987	RX-250-LPN	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	Alway	-	-
1995-M01	2449717.50	1995	RX-250-LPN	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	Alway	-	-
2004-M05	2453277.53	2004 Sep 29 0050	RX-250-LPN	?	-	0.000	LAPAN	SS	-	LAPAN/	Aeron	Wire	-	-
2004-M06	2453277.60	2004 Sep 29 0225	RX-250-LPN	?	-	0.000	LAPAN	SS	-	LAPAN/	Aeron	Wire	-	-
2004-S54	2453278.42	2004 Sep 29 2200	RX-250-LPN	?	-	0.000	LAPAN	SS	-	LAPAN/	Ionos?	Wire	Rigg	-
2004-S55	2453278.62	2004 Sep 30 0300	RX-250-LPN	?	-	0.000	LAPAN	SS	-	LAPAN/	Ionos?	Wire	Rigg	-
2005-M01	2453522.54	2005 Jun 1 0100	RX-250-LPN	?	-	0.000	LAPAN	SS	-	LAPAN/	Test	Wire	-	-
2007-M04	2454270.50	2007 Jun 19	RX-250-LPN	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	www,lapan.go.id	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2008-A02	2454605.47	2008 May 18 2315	RX-320	-	-	RX-3228.02.01	-	-	-	LAP	-	-	-	42	-	-
2008-A09	2454649.50	2008 Jul 2	RX-320	-	-	-	-	-	-	LAP	-	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2008-A02	2454605.47	2008 May 18 2315	RX-320	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	www.lapan.go.id	-	-
2008-A09	2454649.50	2008 Jul 2	RX-320	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	www.lapan.go.id	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-M04	2455014.54	2009 Jul 2 0100	RX-420	-	-	-	-	-	-	LAP	-	-	-	53	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-M04	2455014.54	2009 Jul 2 0100	RX-420	-	-	0.000	LAPAN	SS	-	LAPAN/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A11	2435882.58	1957 Feb 13 0151	Skylark	1	SL01	RAE Test 1	-	-	-	WOO	LA2 SL	-	-	12	-	-
1957-M08	2435980.72	1957 May 22 0520	Skylark	1	SL02	RAE Test 2	-	-	-	WOO	LA2 SL	-	-	75	-	-
1957-S64	2436042.63	1957 Jul 23 0302	Skylark	1	SL03	RAE Test 3/QUB AGP1	-	-	-	WOO	LA2 SL	-	-	85	-	-
1957-S169	2436155.99	1957 Nov 13 1152	Skylark	1	SL04	UCL Grenade/Chaff 1	-	-	-	WOO	LA2 SL	-	-	127	-	-
1958-A27	2436295.36	1958 Apr 1 2032	Skylark	1	SL06	RAE Test 4/Dum probe	-	-	-	WOO	LA2 SL	-	-	42	-	-
1958-S55	2436310.96	1958 Apr 17 1057	Skylark	1	SL07	UCL Grenade/Chaff 2	-	-	-	WOO	LA2 SL	-	-	152	-	-
1958-S66	2436343.68	1958 May 20 0426	Skylark	2	SL05	RAE Test 5/QUB AGP2	-	-	-	WOO	LA2 SL	-	-	150	-	-
1958-S81	2436359.98	1958 Jun 5 1130	Skylark	1	SL22	RAE Test 6	-	-	-	WOO	LA2 SL	-	-	153	-	-
1958-A55	2436372.94	1958 Jun 18 1035	Skylark	2	SL18	UCL Grenade/Chaff 3	-	-	-	WOO	LA2 SL	-	-	3	-	-
1958-S85	2436373.14	1958 Jun 18 1515	Skylark	2	SL09	UCL Grenade/Chaff 4	-	-	-	WOO	LA2 SL	-	-	144	-	-
1958-S86	2436466.39	1958 Sep 19 2115	Skylark	2	SL08	UCL Grenade/Chaff 5	-	-	-	WOO	LA2 SL	-	-	154	-	-
1958-S277	2436540.93	1958 Dec 3 1013	Skylark	1	SL11	QUB Na-1	-	-	-	WOO	LA2 SL	-	-	126	-	-
1959-A43	2436631.97	1959 Mar 4 1114	Skylark	2	SL21	UCL GC-6/QUB Na-2	-	-	-	WOO	LA2 SL	-	-	30	-	-
1959-A102	2436748.50	1959 Jun 29	Rook	-	-	-	-	-	-	ABER	A	-	-	0?	-	-
1959-M21	2436750.50	1959 Jul 1 0005	Skylark	2	SL19	RAE Test 7	-	-	-	WOO	LA2 SL	-	-	50	-	-
1959-A114	2436756.50	1959 Jul 7	Rook	-	-	-	-	-	-	ABER	A	-	-	0?	-	-
1959-S105	2436757.51	1959 Jul 8 0013	Skylark	2	SL14	LUX-P1/UCL Ion-1	-	-	-	WOO	LA2 SL	-	-	93	-	-
1959-S122	2436772.56	1959 Jul 23 0126	Skylark	1	SL24	RAE Test 8	-	-	-	WOO	LA2 SL	-	-	91	-	-
1959-S144	2436799.51	1959 Aug 19 0020	Skylark	2	SL17	UCL LP-2 (Lang.Pr.)	-	-	-	WOO	LA2 SL	-	-	144	-	-
1959-S174	2436828.51	1959 Sep 17 0012	Skylark	2	SL12	LUX-P2/Bir-1/UCL SUV1	-	-	-	WOO	LA2 SL	-	-	132	-	-
1959-S185	2436835.52	1959 Sep 24 0029	Skylark	2	SL15	Bir-2/UCL Ion-2	-	-	-	WOO	LA2 SL	-	-	158	-	-
1959-A178	2436863.50	1959 Oct 22	Leopard	-	L2B	-	-	-	-	ABER	A?	-	-	0?	-	-
1959-S257	2436902.93	1959 Nov 30 1016	Skylark	2	SL16	QUB Na-3	-	-	-	WOO	LA2 SL	-	-	151	-	-
1959-S258	2436903.02	1959 Nov 30 1235	Skylark	2	SL60	UCL GC-7 Gren/Chaff	-	-	-	WOO	LA2 SL	-	-	163	-	-
1959-S261	2436903.98	1959 Dec 1 1136	Skylark	2	SL38	UCL GC-8/Bir-3	-	-	-	WOO	LA2 SL	-	-	159	-	-
1960-A12	2436935.50	1960 Jan 2	Leopard	-	L1B	-	-	-	-	ABER	A?	-	-	0?	-	-
1960-A13	2436940.50	1960 Jan 7	Leopard	-	L1C	-	-	-	-	ABER	A?	-	-	0?	-	-
1960-A53	2436987.50	1960 Feb 23	Leopard	-	L1D	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-S74	2437036.64	1960 Apr 12 0318	Skylark	2C	SL51	RAE Test 9	-	-	-	WOO	LA2 SL	-	-	218	-	-
1960-S79	2437045.94	1960 Apr 21 1035	Skylark	2	SL62	UCL GC-9	-	-	-	WOO	LA2 SL	-	-	141	-	-
1960-A326	2437045.50	1960 Apr 21	Blue Water	-	FJ 3	Flight 1	-	-	-	ABER	A?	-	-	10?	-	-
1960-A327	2437050.50	1960 Apr 26	Blue Water	-	-	-	-	-	-	ABER	A?	-	-	10?	-	-
1960-A105	2437053.50	1960 Apr 29	Leopard	-	L1E	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-A106	2437053.50	1960 Apr 29	Leopard	-	L1F	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-A113	2437059.50	1960 May 5	Leopard	-	L1G	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-A129	2437081.50	1960 May 27	Leopard	-	L3	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-S132	2437102.00	1960 Jun 16 1204	Skylark	2	SL10	QUB Na-4-MM	-	-	-	WOO	LA2 SL	-	-	129	-	-
1960-A165	2437127.50	1960 Jul 12	Leopard	-	L4	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-A168	2437129.50	1960 Jul 14	Rook	-	R1H	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-S232	2437156.94	1960 Aug 10 1035	Skylark	2	SL61	UCL GC-10	-	-	-	WOO	LA2 SL	-	-	171	-	-
1960-A203	2437163.50	1960 Aug 17	Jaguar 1	-	G1	Dummy St 2/St 3	-	-	-	ABER	A?	-	-	20?	-	-
1960-S254	2437172.96	1960 Aug 26 1100	Skylark	2	SL13	QUB Na-5-MM	-	-	-	WOO	LA2 SL	-	-	109	-	-
1960-A01	2437220.50	1960 Oct 13	Rook	-	R1J	-	-	-	-	WOO	LA2?	-	-	20?	-	-
1960-S364	2437254.96	1960 Nov 16 1102	Skylark	2	SL33	RAE Test 10	-	-	-	WOO	LA2 SL	-	-	105	-	-
1960-A266	2437255.50	1960 Nov 17	Rook	-	R1I	-	-	-	-	ABER	A?	-	-	20?	-	-
1960-S371	2437255.94	1960 Nov 17 1040	Skylark	2C	SL67	UCL GC-11/QUB Na-6	-	-	-	WOO	LA2 SL	-	-	247	-	-
1960-S379	2437262.50	1960 Nov 23 2355	Skylark	2	SL49	LUX-1/UCL Ion3/UCW-1	-	-	-	WOO	LA2 SL	-	-	160	-	-
1960-A294	2437275.51	1960 Dec 7 0020	Skylark	2	SL50	LUX-2/UCW-2	-	-	-	WOO	LA2 SL	-	-	35	-	-
1960-A300	2437283.50	1960 Dec 15	Jaguar 1	-	J1	-	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1961-S44	2437344.08	1961 Feb 13 1358	Skylark	2	SL36	UCL GC-12	-	-	-	WOO	LA2 SL	-	-	146	-	-
1961-S72	2437364.91	1961 Mar 6 0956	Skylark	2C	SL63	UCL GC-13/QUB Na-7	-	-	-	WOO	LA2 SL	-	-	231	-	-
1961-S103	2437394.96	1961 Apr 5 1056	Skylark	2	SL64	UCL GC-14	-	-	-	WOO	LA2 SL	-	-	158	-	-
1961-A107	2437410.50	1961 Apr 21	Jaguar 1	-	J2	-	-	-	-	WOO	LA2 HRV	-	-	29	-	-
1961-A110	2437415.50	1961 Apr 26	Rook	-	R1K	-	-	-	-	ABER	A?	-	-	20?	-	-
1961-S132	2437421.01	1961 May 1 1210	Skylark	2	SL43	UCL UV-1	-	-	-	WOO	LA2 SL	-	-	155	-	-
1961-S164	2437449.72	1961 May 30 0515	Skylark	2	SL25	RAE Test 11	-	-	-	WOO	LA2 SL	-	-	149	-	-
1961-S169	2437457.53	1961 Jun 7 0040	Skylark	2	SL26	RAE Test 12	-	-	-	WOO	LA2 SL	-	-	184	-	-
1961-M18	2437484.93	1961 Jul 4 1023	Skylark	2	SL65	UCL GC-15	-	-	-	WOO	LA2 SL	-	-	70	-	-
1961-A170	2437500.50	1961 Jul 20	Leopard	-	L5	-	-	-	-	ABER	A?	-	-	20?	-	-
1961-A172	2437506.50	1961 Jul 26	Jaguar 1	-	J3	-	-	-	-	WOO	LA2 HRV	-	-	10?	-	-
1961-S227	2437512.96	1961 Aug 1 1102	Skylark	2	SL34	UCL UV-2	-	-	-	WOO	LA2 SL	-	-	124	-	-
1961-A190	2437535.50	1961 Aug 24	Rook	-	Ra23	Ranger 23	-	-	-	ABER	A?	-	-	20?	-	-
1961-A191	2437535.50	1961 Aug 24	Rook	-	-	Ranger	-	-	-	ABER	A?	-	-	20?	-	-
1961-S292	2437561.01	1961 Sep 18 1215	Skylark	2C	NASA 9.01GG	Southern Sky Survey	-	-	-	WOO	LA2 SL	-	-	193	-	-
1961-S300	2437569.52	1961 Sep 27 0025	Skylark	2	SL40	LUX-3/IC-1/UCL I-4	-	-	-	WOO	LA2 SL	-	-	153	-	-
1961-S320	2437576.97	1961 Oct 4 1119	Skylark	2C	NASA 9.02GG	Southern Sky Survey	-	-	-	WOO	LA2 SL	-	-	195	-	-
1961-S347	2437596.52	1961 Oct 24 0023	Skylark	2	SL37	LUX-4/UCL I-5/JB-1	-	-	-	WOO	LA2 SL	-	-	142	-	-
1961-A230	2437603.50	1961 Nov	Jaguar 1	-	J4	-	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1961-S365	2437605.25	1961 Nov 1 1756	Skylark	2C	NASA 9.03GG	Southern Sky Survey	-	-	-	WOO	LA2 SL	-	-	193	-	-
1961-S371	2437611.88	1961 Nov 8 0900	Skylark	2	SL35	MO-1/UCL Ion-6/JB-2	-	-	-	WOO	LA2 SL	-	-	152	-	-
1961-S384	2437624.25	1961 Nov 20 1804	Skylark	2C	NASA 9.04GG	Southern Sky Survey	-	-	-	WOO	LA2 SL	-	-	209	-	-
1961-A239	2437624.50	1961 Nov 21	Skylark	5C	SL83	LUX-5/UCL I-7/UCW-3	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1961-S407	2437639.48	1961 Dec 5 2326	Skylark	2C	SL42	LUX-6/UCL I-8/Bir-4	-	-	-	WOO	LA2 SL	-	-	226	-	-
1962-A10	2437683.50	1962 Jan 19	Rook	-	Ra26	Ranger 26	-	-	-	ABER	A?	-	-	20?	-	-
1962-S33	2437701.37	1962 Feb 5 2058	Skylark	5C	SL35B	RAE Test 13	-	-	-	WOO	LA2 SL	-	-	215	-	-
1962-S60	2437728.91	1962 Mar 5 0955	Skylark	2	SL66	UCL GC-16/QUB Na-8	-	-	-	WOO	LA2 SL	-	-	233	-	-
1962-S62	2437730.02	1962 Mar 6 1235	Skylark	2	SL160	UCL GC-17	-	-	-	WOO	LA2 SL	-	-	173	-	-
1962-S71	2437742.96	1962 Mar 19 1104	Skylark	2	SL161	UCL GC-18	-	-	-	WOO	LA2 SL	-	-	140	-	-
1962-A45	2437758.50	1962 Apr 4	Jaguar 1	-	J5	-	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1962-S89	2437760.16	1962 Apr 5 1547	Skylark	2	SL163	UCL GC-19	-	-	-	WOO	LA2 SL	-	-	238	-	-
1962-A48	2437765.26	1962 Apr 10 1820	Skylark	2	SL162	UCL GC-20	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1962-S170	2437821.62	1962 Jun 6 0300	Skylark	5C	SL35C	RAE Test 14	-	-	-	WOO	LA2 SL	-	-	240	-	-
1962-A243	2437822.50	1962 Jun 7	Blue Water	-	-	Flight 15	-	-	-	ABER	A?	-	-	10?	-	-
1962-S195	2437835.72	1962 Jun 20 0520	Skylark	5C	SL45	LUX-7/UCL SUV-2GS-2I	-	-	-	WOO	LA2 SL	-	-	227	-	-
1962-A99	2437841.50	1962 Jun 26	Jaguar 1	-	J6	-	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1962-S225	2437850.66	1962 Jul 5 0346	Skylark	5	SL164	UCL GC-21	-	-	-	WOO	LA2 SL	-	-	111	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S295	2437891.14	1962 Aug 14 1520	Skylark	2	SL109	UCL SUV-3I/RSHF-1	-	-	-	WOO	LA2 SL	-	-	111	-	-
1962-A125	2437900.50	1962 Aug 24	Jaguar 1	-	J7	HRV 913	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1962-S316	2437905.54	1962 Aug 29 0101	Skylark	2	SL28	RAE Test 15	-	-	-	WOO	LA2 SL	-	-	109	-	-
1962-A153	2437907.50	1962 Sep	Rook	-	Bo1	Bonorong 1	-	-	-	WOO	LA2 HRV	-	-	20?	-	-
1962-S330	2437919.06	1962 Sep 11 1330	Skylark	2C	SL44	UCL I-10 Ionos.	-	-	-	WOO	LA2 SL	-	-	232	-	-
1962-S341	2437927.68	1962 Sep 20 0421	Skylark	2	SL108	RSHF-2	-	-	-	WOO	LA2 SL	-	-	113	-	-
1962-S392	2437953.18	1962 Oct 15 1617	Skylark	2	SL82	MRAO-1/UCL I-11	-	-	-	WOO	LA2 SL	-	-	154	-	-
1962-S475	2437981.92	1962 Nov 13 1010	Skylark	7C	SL114	LUX-8/JB-3/MO-2	-	-	-	WOO	LA2 SL	-	-	206	-	-
1962-S487	2437990.55	1962 Nov 22 0111	Skylark	7	SL27	RAE Test 16	-	-	-	WOO	LA2 SL	-	-	114	-	-
1962-S499	2437996.93	1962 Nov 28 1017	Skylark	7C	SL165	UCL GC-22	-	-	-	WOO	LA2 SL	-	-	230	-	-
1962-A207	2437998.50	1962 Nov 30	Leopard	-	L6	Leopard 6	-	-	-	ABER	A?	-	-	20?	-	-
1962-S528	2438002.83	1962 Dec 4 0756	Skylark	5	SL166	UCL GC-23	-	-	-	WOO	LA2 SL	-	-	105	-	-
1963-S77	2438089.56	1963 Mar 1 0120	Skylark	7C	SL84	LUX-9/UCL SUV-4/UCW-4	-	-	-	WOO	LA2 SL	-	-	209	-	-
1963-S87	2438099.69	1963 Mar 11 0430	Skylark	7C	SL85	LUX-10/UCL SUV-5/UCW	-	-	-	WOO	LA2 SL	-	-	209	-	-
1963-A45	2438115.50	1963 Mar 27	Jaguar 1	-	J8	HRV 915	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1963-S158	2438136.89	1963 Apr 17 0923	Skylark	7C	SL167	UCL GS-2/QUB Na-9	-	-	-	WOO	LA2 SL	-	-	236	-	-
1963-S231	2438172.87	1963 May 23 0846	Skylark	7C	SL115	LUX-11/JB-4/MO-3	-	-	-	WOO	LA2 SL	-	-	201	-	-
1963-S244	2438178.69	1963 May 29 0435	Skylark	7C	SL127	LUX-12/UCL I-12/RRS-1	-	-	-	WOO	LA2 SL	-	-	209	-	-
1963-S279	2438198.69	1963 Jun 18 0430	Skylark	7C	SL126	LUX-13/UCL I-13/RRS-2	-	-	-	WOO	LA2 SL	-	-	196	-	-
1963-S288	2438200.72	1963 Jun 20 0520	Skylark	7C	SL46	LUX-14/UCL I-14SUV6	-	-	-	WOO	LA2 SL	-	-	227	-	-
1963-A113	2438235.71	1963 Jul 25 0459	Skylark	7	SL29	RAE Test 17	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1963-A116	2438243.60	1963 Aug 2 0230	Skylark	5C	SL86	RAE Test 18	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1963-S431	2438277.65	1963 Sep 5 0341	Skylark	5C	SL87	RAE Test 19	-	-	-	WOO	LA2 SL	-	-	214	-	-
1963-S475	2438305.13	1963 Oct 2 1510	Skylark	7	SL81A	MRAO-2/UCL I-15	-	-	-	WOO	LA2 SL	-	-	148	-	-
1963-S490	2438317.91	1963 Oct 15 0951	Skylark	7C	SL171	UCL GS-3/QUB Na-10	-	-	-	WOO	LA2 SL	-	-	210	-	-
1963-S491	2438317.99	1963 Oct 15 1148	Skylark	7	SL169	UCL GC-24	-	-	-	WOO	LA2 SL	-	-	139	-	-
1963-S492	2438318.13	1963 Oct 15 1509	Skylark	7	SL170	UCL GC-25	-	-	-	WOO	LA2 SL	-	-	140	-	-
1963-S494	2438318.31	1963 Oct 15 1922	Skylark	7C	SL168	UCL GS-4/QUB Na-11	-	-	-	WOO	LA2 SL	-	-	180	-	-
1963-S525	2438333.10	1963 Oct 30 1426	Skylark	7C	SL134	RAE Test 20	-	-	-	WOO	LA2 SL	-	-	186	-	-
1963-A174	2438352.50	1963 Nov 19 0005	Skylark	7C	SL103	LUX-15/UCL I-16SUV7	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1963-S579	2438365.68	1963 Dec 2 0415	Skylark	7C	SL135	RAE Test 21	-	-	-	WOO	LA2 SL	-	-	168	-	-
1963-S582	2438366.71	1963 Dec 3 0459	Skylark	7C	SL104	LUX-16/UCL I-17SUV8	-	-	-	WOO	LA2 SL	-	-	106	-	-
1964-S75	2438429.55	1964 Feb 4 0105	Skylark	5C	SL88	RAE Test 22	-	-	-	WOO	LA2 SL	-	-	118	-	-
1964-A22	2438437.50	1964 Feb 12	Jaguar 1	-	J9	HRV 916	-	-	-	WOO	LA2 HRV	-	-	24	-	-
1964-S111	2438445.62	1964 Feb 20 0300	Skylark	7	SL30	RAE Test 23	-	-	-	WOO	LA2 SL	-	-	112	-	-
1964-S137	2438464.59	1964 Mar 10 0206	Skylark	7C	SL129	LUX-17/SoG-1/UCL I-18	-	-	-	WOO	LA2 SL	-	-	175	-	-
1964-S143	2438466.59	1964 Mar 12 0207	Skylark	7C	SL128	LUX-18/SoG-2/UCL I-19	-	-	-	WOO	LA2 SL	-	-	176	-	-
1964-S201	2438496.89	1964 Apr 11 0919	Skylark	7C	SL136	MO-4 Ozone dist	-	-	-	WOO	LA2 SL	-	-	200	-	-
1964-S244	2438529.69	1964 May 14 0431	Skylark	7C	SL20	RAE Test 24	-	-	-	WOO	LA2 SL	-	-	182	-	-
1964-S326	2438583.31	1964 Jul 6 1923	Skylark	7C	ESRO SO1/1	ESRO SO1/1 MPE Ba-7	-	-	-	SDQ	-	-	-	198	-	-
1964-S334	2438585.31	1964 Jul 8 1922	Skylark	7C	ESRO SO1/2	ESRO SO1/2 MPE Ba-8	-	-	-	SDQ	-	-	-	183	-	-
1964-S347	2438591.53	1964 Jul 15 0047	Skylark	7	SL31	RAE Test 25	-	-	-	WOO	LA2 SL	-	-	81	-	-
1964-S366	2438593.69	1964 Jul 17 0435	Skylark	7	SL32	RAE Test 26	-	-	-	WOO	LA2 SL	-	-	90	-	-
1964-S418	2438618.74	1964 Aug 11 0540	Skylark	7C	SL301	LUX-19AC1/Cul-1	-	-	-	WOO	LA2 SL	-	-	145	-	-
1964-S438	2438627.73	1964 Aug 20 0536	Skylark	7C	SL121	LUX-20 PHC/UCW-8	-	-	-	WOO	LA2 SL	-	-	192	-	-
1964-S456	2438639.89	1964 Sep 1 0919	Skylark	7C	SL137	MO-5 Ozone dist	-	-	-	WOO	LA2 SL	-	-	212	-	-
1964-S458	2438642.56	1964 Sep 4 0120	Skylark	5C	SL87A	RAE Test 27	-	-	-	WOO	LA2 SL	-	-	182	-	-
1964-S471	2438655.73	1964 Sep 17 0526	Skylark	7C	SL120	LUX-21 PHC/UCW-9	-	-	-	WOO	LA2 SL	-	-	192	-	-
1964-S481	2438662.70	1964 Sep 24 0442	Skylark	7C	SL133	LUX-22/RSRS-3	-	-	-	WOO	LA2 SL	-	-	180	-	-
1964-S493	2438667.69	1964 Sep 29 0431	Skylark	7C	SL132	LUX-23/RSRS-4	-	-	-	WOO	LA2 SL	-	-	174	-	-
1964-A146	2438670.50	1964 Oct 2	Jabiru 2	-	J201	HRV 920/Dummy St3	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1964-S540	2438695.95	1964 Oct 27 1050	Skylark	7C	SL47	LUX XRS1/UCL UV-3I	-	-	-	WOO	LA2 SL	-	-	146	-	-
1964-A183	2438739.50	1964 Dec 10	Rook	-	Ra28	Ranger 28	-	-	-	ABER	A?	-	-	20?	-	-
1964-S684	2438745.58	1964 Dec 16 0202	Skylark 3	-	SL88A	RAE Test 28	-	-	-	WOO	LA2 SL	-	-	220	-	-
1964-S688	2438746.63	1964 Dec 17 0305	Skylark	7C	SL302	LUX-25AC2/Cul-2	-	-	-	WOO	LA2 SL	-	-	167	-	-
1965-S128	2438822.70	1965 Mar 3 0442	Skylark 3	-	SL87B	RAE Test 29	-	-	-	WOO	LA2 SL	-	-	216	-	-
1965-A47	2438837.26	1965 Mar 17 1808	Skylark	7C	SL140	ROE-1/SHF-3/UCL I-20	-	-	-	WOO	LA2 SL	-	-	19	-	-
1965-S190	2438844.50	1965 Mar 25 0006	Skylark	7C	SL141	ROE-2/SHF-4/UCL I-21	-	-	-	WOO	LA2 SL	-	-	174	-	-
1965-A54	2438851.11	1965 Mar 31 1434	Skylark	7	SO3/1	ESRO SO3/1	-	-	-	SDQ	-	-	-	45	-	-
1965-S213	2438854.04	1965 Apr 3 1254	Skylark	7	SO3/2	ESRO SO3/2 (SE5)	-	-	-	SDQ	-	-	-	172	-	-
1965-S221	2438859.54	1965 Apr 9 0101	Skylark	7C	SL303	LUX-26AC3/Cul-3	-	-	-	WOO	LA2 SL	-	-	160	-	-
1965-S259	2438879.88	1965 Apr 29 0903	Skylark	7C	SL464	UCL GC-26/QUB Li-1	-	-	-	WOO	LA2 SL	-	-	140?	-	-
1965-S260	2438879.96	1965 Apr 29 1109	Skylark	7	SL363	UCL GC-27	-	-	-	WOO	LA2 SL	-	-	136	-	-
1965-S261	2438880.02	1965 Apr 29 1225	Skylark	7	SL364	UCL GC-28	-	-	-	WOO	LA2 SL	-	-	132	-	-
1965-S262	2438880.08	1965 Apr 29 1356	Skylark	7	SL461	UCL GC-29	-	-	-	WOO	LA2 SL	-	-	124	-	-
1965-S263	2438880.18	1965 Apr 29 1619	Skylark	7	SL462	UCL GC-30	-	-	-	WOO	LA2 SL	-	-	140	-	-
1965-S265	2438880.25	1965 Apr 29 1756	Skylark	7	SL463	UCL GC-31	-	-	-	WOO	LA2 SL	-	-	135	-	-
1965-S266	2438880.36	1965 Apr 29 2040	Skylark	7C	SL362	UCL GS-5	-	-	-	WOO	LA2 SL	-	-	175	-	-
1965-S287	2438892.36	1965 May 11 2040	Skylark	7C	SL361	UCL FS-6/QUB Li-2	-	-	-	WOO	LA2 SL	-	-	181	-	-
1965-A67	2438892.50	1965 May 12	Rook IIIA	-	Ly4	Lynx 4	-	-	-	ABER	A?	-	-	20?	-	-
1965-S290	2438894.17	1965 May 13 1605	Skylark	7C	SL139	RSRS-4	-	-	-	WOO	LA2 SL	-	-	187	-	-
1965-S298	2438899.73	1965 May 19 0525	Skylark	7C	SL138	LUX-27/RSRS-5	-	-	-	WOO	LA2 SL	-	-	179	-	-
1965-S415	2438942.57	1965 Jul 1 0145	Skylark	7C	SL106	LUX-28/UCL I-22	-	-	-	WOO	LA2 SL	-	-	130	-	-
1965-S423	2438955.96	1965 Jul 14 1108	Skylark	7C	SL48	UCL UV-4	-	-	-	WOO	LA2 SL	-	-	182	-	-
1965-A109	2438964.50	1965 Jul 23	Rook	-	Ra30	Ranger 30	-	-	-	ABER	A?	-	-	20?	-	-
1965-A115	2438970.55	1965 Jul 29 0115	Skylark	7C	SL105	LUX-29/UCL I-23	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1965-S462	2438983.47	1965 Aug 10 2313	Skylark	7C	ESRO SO5/1	ESRO SO5/1 ROE-3	-	-	-	SDQ	-	-	-	215	-	-
1965-A125	2438997.50	1965 Aug 25	Jabiru 2	-	J202	HRV 921/UK-2F	-	-	-	WOO	LA2 HRV	-	-	10?	-	-
1966-S746	2439347.50	1966 Aug 10	Jabiru 2	-	J203?	HRV 923/UK-D	-	-	-	WOO	LA2 HRV	-	-	250?	-	-
1965-S491	2439012.68	1965 Sep 9 0420	Skylark 3	-	SL88B	RAE Test 30	-	-	-	WOO	LA2 SL	-	-	221	-	-
1965-S530	2439033.68	1965 Sep 30 0420	Skylark	7C	ESRO SO4/1 (SEO8)	ESRO SO4/1 MPE Ba-12	-	-	-	SDQ	-	-	-	225	-	-
1965-S537	2439035.68	1965 Oct 2 0422	Skylark	7C	ESRO SO4/2 (SEO9)	ESRO SO4/2 MPE Ba-13	-	-	-	SDQ	-	-	-	250	-	-
1965-S558	2439051.97	1965 Oct 18 1123	Skylark	7C	SL39	QUB AGP-3/UCL I-24	-	-	-	WOO	LA2 SL	-	-	205	-	-
1965-S563	2439053.72	1965 Oct 20 0520	Skylark 3 AC	-	SL306	LUX-30AC4/Cul-4	-	-	-	WOO	LA2 SL	-	-	214	-	-
1965-S631	2439083.70	1965 Nov 19 0454	Skylark	7C	SL130	LUX-31/QUB Li-3/Bir	-	-	-	WOO	LA2 SL	-	-	138	-	-
1965-S678	2439107.92	1965 Dec 13 1008	Skylark	7C	SL131	LUX-32/QUB Li-4/Bir	-	-	-	WOO	LA2 SL	-	-	130	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S93	2439158.52	1966 Feb 2 0026	Skylark 3 AC	-	SL307	LUX-33AC5/Cul-5	-	-	-	WOO	LA2 SL	-	-	216	-	-
1966-S169	2439201.49	1966 Mar 16 2350	Skylark 3	-	SL581	RAE Test 31	-	-	-	WOO	LA2 SL	-	-	221	-	-
1966-S223	2439235.60	1966 Apr 20 0230	Skylark 2	-	SL582	RAE Test 32	-	-	-	WOO	LA2 SL	-	-	172	-	-
1966-S229	2439236.50	1966 Apr 21 0006	Skylark 2	-	SL583	RAE Test 33	-	-	-	WOO	LA2 SL	-	-	193	-	-
1966-S256	2439250.68	1966 May 5 0414	Skylark 3 AC	-	SL304	LUX-34/MSSL SX1-SUV9	-	-	-	WOO	LA2 SL	-	-	203	-	-
1966-S295	2439277.30	1966 May 31 1919	Skylark	7C	SL422	MSSL-1/SHF-5	-	-	-	WOO	LA2 SL	-	-	161	-	-
1966-S298	2439278.86	1966 Jun 2 0834	Skylark	7C	SL327	MO UVO-1/UCW-10	-	-	-	WOO	LA2 SL	-	-	176	-	-
1966-S304	2439285.86	1966 Jun 9 0833	Skylark	7C	SL328	MO UVO-2/UCW-11	-	-	-	WOO	LA2 SL	-	-	184	-	-
1966-S322	2439293.31	1966 Jun 16 1929	Skylark	7C	ESRO S17/1	ESRO S17/1 MPE Ba	-	-	-	SDQ	-	-	-	230	-	-
1966-S326	2439294.61	1966 Jun 18 0241:30	Skylark	7C	ESRO S17/2	ESRO S17/2 MPE Ba	-	-	-	SDQ	-	-	-	220	-	-
1966-S327	2439297.32	1966 Jun 20 1939:00	Skylark	7C	ISRC-SK-7	ESRO S08/1 MPE Ba	-	-	-	SDQ	-	-	-	220	-	-
1966-S332	2439299.57	1966 Jun 23 0138	Skylark	7C	SL421	MSSL-2/SHF-6	-	-	-	WOO	LA2 SL	-	-	170	-	-
1966-S346	2439304.62	1966 Jun 28 0253:30	Skylark	7C	ISRC-SK-8	ESRO S08/2 MPE Ba	-	-	-	SDQ	-	-	-	228	-	-
1966-S361	2439315.32	1966 Jul 8 1947:00	Skylark	7C	ISRC-SK-18	ESRO S18/1	-	-	-	SDQ	-	-	-	244	-	-
1966-S369	2439320.32	1966 Jul 13 1944:15	Skylark	7C	ESRO S18/2	ESRO S18/2	-	-	-	SDQ	-	-	-	249	-	-
1966-S400	2439334.54	1966 Jul 28 0051	Skylark 3	-	SL88C	RAE Test 34	-	-	-	WOO	LA2 SL	-	-	213	-	-
1966-S559	2439423.88	1966 Oct 25 0906	Skylark	7C	SL321	Bir-11	-	-	-	WOO	LA2 SL	-	-	211	-	-
1966-S560	2439423.97	1966 Oct 25 1111	Skylark 1	-	SL322	Bir-12	-	-	-	WOO	LA2 SL	-	-	119	-	-
1966-S567	2439425.87	1966 Oct 27 0847	Skylark	7C	SL325	Bir-13	-	-	-	WOO	LA2 SL	-	-	173	-	-
1966-S568	2439425.93	1966 Oct 27 1025	Skylark 2	-	SL323	Bir-14	-	-	-	WOO	LA2 SL	-	-	212	-	-
1966-S569	2439426.07	1966 Oct 27 1335	Skylark	7C	SL324	Bir-15	-	-	-	WOO	LA2 SL	-	-	200?	-	-
1966-A131	2439439.50	1966 Nov 10	Jabiru 2	-	J204	Dummy St 3	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1966-S632	2439447.55	1966 Nov 18 0105	Skylark 3 AC	-	SL481	RAE Test 35	-	-	-	WOO	LA2 SL	-	-	142	-	-
1966-A144	2439456.30	1966 Nov 26 1911:00	Skylark 3	-	ISRC-SK-16	ESRO S11/1 ROE4/BXR1	-	-	-	SDQ	-	-	-	3	-	-
1966-A148	2439468.12	1966 Dec 8 1457	Skylark 3 AC	-	SL405	LUX-35AC6/Cul-6	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1966-S684	2439473.77	1966 Dec 14 0633	Skylark	7C	SL581A	RAE Test 36	-	-	-	WOO	LA2 SL	-	-	164	-	-
1967-S155	2439563.75	1967 Mar 14 0600	Skylark 3 AC	-	SL406	LUX-36AC7/Cul-7	-	-	-	WOO	LA2 SL	-	-	200	-	-
1967-S192	2439584.52	1967 Apr 4 0032	Skylark 3	-	SL426	UAT-1/UCW-12	-	-	-	WOO	LA2 SL	-	-	220	-	-
1967-S202	2439590.95	1967 Apr 10 1051	Skylark	7C	SL118	LUX XRS2/QUB AGP4	-	-	-	WOO	LA2 SL	-	-	167	-	-
1967-S210	2439593.02	1967 Apr 12 1232	Skylark	7C	SL119	LUX XRS3/QUB AGP5	-	-	-	WOO	LA2 SL	-	-	160	-	-
1967-S227	2439601.44	1967 Apr 20 2236	Skylark 3	-	SL425	UAT-2/UCW-13	-	-	-	WOO	LA2 SL	-	-	218	-	-
1967-S235	2439607.69	1967 Apr 27 0431	Skylark 3 AC	-	SL682	RAE Test 37	-	-	-	WOO	LA2 SL	-	-	203	-	-
1967-A74	2439610.50	1967 May	Rook	-	-	-	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1967-S269	2439632.51	1967 May 22 0011:57	Skylark 3	-	ISRC-SK-17	ESRO S11/2 ROE5/BXR2	-	-	-	SDQ	-	-	-	230	-	-
1967-S272	2439636.48	1967 May 25 2324:00	Skylark 3	-	ISRC-SK-19	ESRO S05/2 ROE6	-	-	-	SDQ	-	-	-	239	-	-
1967-A95	2439682.50	1967 Jul 11	Rook IIIA	-	Ly6	Lynx 6	-	-	-	ABER	A?	-	-	20?	-	-
1967-S375	2439710.66	1967 Aug 8 0356	Skylark 3 AC	-	SL305	LUX-39/MSSL SX2-SUV10	-	-	-	WOO	LA2 SL	-	-	182	-	-
1967-S388	2439718.77	1967 Aug 16 0636	Skylark	7C	SL581B	RAE Test 38	-	-	-	WOO	LA2 SL	-	-	152	-	-
1967-A101	2439726.50	1967 Aug 24	Rook IIIA	-	Ob1	Oberon 1	-	-	-	WOO	LA2 HRV	-	-	20?	-	-
1967-S393	2439726.92	1967 Aug 24 1005	Skylark	7C	SL521	OXUV-1 Ly alpha	-	-	-	WOO	LA2 SL	-	-	178	-	-
1967-S405	2439731.92	1967 Aug 29 1001	Skylark	7C	SL522	OXUV-2 Ly alpha	-	-	-	WOO	LA2 SL	-	-	124	-	-
1967-A115	2439740.50	1967 Sep 7	Rook	-	Ra32	Ranger 32	-	-	-	ABER	A?	-	-	20?	-	-
1967-S455	2439761.02	1967 Sep 27 1232:00	Skylark	7C	ESRO S26/1	ESRO S26/1 RSRS-SX1	-	-	-	SDQ	-	-	-	183	-	-
1967-S473	2439768.06	1967 Oct 4 1323:18	Skylark	7C	ESRO S19/1	ESRO S19/1 MSSL I-26	-	-	-	SDQ	-	-	-	206	-	-
1967-S478	2439771.12	1967 Oct 7 1450	Skylark	7C	ESRO S26/2	ESRO S26/2 RSRS-SX2	-	-	-	SDQ	-	-	-	164	-	-
1967-S482	2439774.11	1967 Oct 10 1433:00	Skylark	7C	ESRO S19/2	ESRO S19/2 MSSL I-27	-	-	-	SDQ	-	-	-	204	-	-
1967-S518	2439795.69	1967 Nov 1 0430	Skylark 3 AC	-	SL407	LUX-40AC8/Cul-8	-	-	-	WOO	LA2 SL	-	-	209	-	-
1967-S533	2439808.73	1967 Nov 14 0527	Skylark	7C	SL423	RSRS-6	-	-	-	WOO	LA2 SL	-	-	178	-	-
1967-S539	2439811.50	1967 Nov 17	Skylark	7C	SL424	RSRS-7	-	-	-	WOO	LA2 SL	-	-	178	-	-
1967-S557	2439825.76	1967 Dec 1 0608	Skylark	7C	SL422A	UAT-3	-	-	-	WOO	LA2 SL	-	-	181	-	-
1967-A142	2439831.50	1967 Dec 7	Jabiru 2	-	J205	UK-E/HRV 926	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1968-S126	2439894.75	1968 Feb 8 0601	Skylark 6	-	SL583A	RAE Test 39	-	-	-	WOO	LA2 SL	-	-	300	-	-
1968-S194	2439935.71	1968 Mar 20 0457	Skylark 3	-	SL408	LUX-41AC9/Cul-9	-	-	-	WOO	LA2 SL	-	-	217	-	-
1968-S215	2439942.49	1968 Mar 26 2341:21	Skylark 1	-	S16/1	ESRO S16/1 MSSL Au1	-	-	-	ESR	S	-	-	171	-	-
1968-S354	2440007.87	1968 May 31 0849	Skylark	7C	SL762	UCL GT-1 Gren/TMA	-	-	-	WOO	LA2 SL	-	-	242	-	-
1968-S355	2440008.36	1968 May 31 2039	Skylark	7C	SL761	UCL GT-2	-	-	-	WOO	LA2 SL	-	-	238	-	-
1968-S376	2440019.94	1968 Jun 12 1030	Skylark	5C	SL723	LUX XRS4 M87 Survey	-	-	-	WOO	LA2 SL	-	-	184	-	-
1968-S394	2440045.75	1968 Jul 8 0605	Skylark 3 AC	-	SL403	LUX XRS5 M87 Survey	-	-	-	WOO	LA2 SL	-	-	180	-	-
1968-A86	2440055.50	1968 Jul 18	Jabiru 2	-	J206	UK-2H/HRV 927	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1968-S411	2440061.57	1968 Jul 24 0141	Skylark	5C	SL523	UCW-14	-	-	-	WOO	LA2 SL	-	-	258	-	-
1968-S442	2440074.58	1968 Aug 6 0155	Skylark	5C	SL524	UCW-15	-	-	-	WOO	LA2 SL	-	-	234	-	-
1968-S484	2440098.32	1968 Aug 29 1943	Skylark 3 AC	-	SL501	MSSL SX-3/Bir-16	-	-	-	WOO	LA2 SL	-	-	210	-	-
1968-S522	2440137.40	1968 Oct 7 2139:48	Skylark 3	-	ESRO S47/1	ESRO S47/1 ROE-7	-	-	-	SDQ	-	-	-	208	-	-
1968-S529	2440138.71	1968 Oct 9 0458	Skylark 1	-	SL791R	RAE Test 40	-	-	-	WOO	LA2 SL	-	-	106	-	-
1968-A103	2440154.50	1968 Oct 25	Rook IIIA	-	Ob2	Oberon 2	-	-	-	WOO	LA2 HRV	-	-	20?	-	-
1968-S607	2440182.97	1968 Nov 22 1116:12	Skylark 3 AC	-	ESRO S41/1	ESRO S41/1 LUX-44	-	-	-	SDQ	-	-	-	210	-	-
1968-S609	2440185.53	1968 Nov 25 0041:50	Skylark 2	-	ESRO S43/1	ESRO S43/1 Bir-17	-	-	-	ESR	S	-	-	212	-	-
1968-S618	2440194.36	1968 Dec 3 2038:49	Skylark 3	-	ESRO S27/1	ESRO S27/1 ROE-8	-	-	-	SDQ	-	-	-	198	-	-
1968-S629	2440194.73	1968 Dec 4 0535	Skylark 3 AC	-	SL601	Cul UVS 10	-	-	-	WOO	LA2 SL	-	-	182	-	-
1968-S633	2440197.69	1968 Dec 7 0433	Skylark	7C	SL725	MSSL I-28/RSRS-8	-	-	-	WOO	LA2 SL	-	-	154	-	-
1969-A26	2440242.70	1969 Jan 21 0449	Skylark 6	-	SL781	UAT-4	-	-	-	WOO	LA2 SL	-	-	0?	-	-
1969-S82	2440245.33	1969 Jan 23 2000	Skylark	7C	SL726	MSSL I-29/RSRS-9	-	-	-	WOO	LA2 SL	-	-	149	-	-
1969-S194	2440296.36	1969 Mar 15 2045:15	Skylark 2	-	S43/2	ESRO S43/2 Bir-18	-	-	-	ESR	S	-	-	211	-	-
1969-A56	2440311.50	1969 Apr	Jabiru 2	-	J207	-	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1969-S247	2440312.93	1969 Apr 1 1024	Skylark	5C	SL724	LUX XRS 6 Survey	-	-	-	WOO	LA2 SL	-	-	192	-	-
1969-S251	2440314.52	1969 Apr 3 0035	Skylark 6 AC	-	SL502	MSSL SX-4/I-30/Bir-19	-	-	-	WOO	LA2 SL	-	-	273	-	-
1969-S275	2440328.73	1969 Apr 17 0533	Skylark 3 AC	-	SL606	Cul UVS 11-XUVS1/MO-8	-	200th SL	-	WOO	LA2 SL	-	-	202	-	-
1969-S291	2440333.65	1969 Apr 22 0331	Skylark 3 AC	-	SL604	Cul UVS 12	-	-	-	WOO	LA2 SL	-	-	181	-	-
1969-A73	2440346.50	1969 May 5	Jabiru 2	-	J202-2	UK-2Q/HRV 932	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1969-S325	2440355.61	1969 May 14 0244	Skylark 3 AC	-	SL404	Cul XUVS 2/LUX-46	-	-	-	WOO	LA2 SL	-	-	178	-	-
1969-A118	2440405.50	1969 Jul 3	Rook IIIA	-	Ly5	Lynx 5	-	-	-	ABER	A?	-	-	20?	-	-
1969-S392	2440408.29	1969 Jul 5 1900:45	Skylark	7C	S38/1	ESRO S38/1	-	-	-	SDQ	-	-	-	200	-	-
1969-S393	2440409.33	1969 Jul 6 1950:29	Skylark 3	-	S64/1	ESRO S64/1	-	-	-	SDQ	-	-	-	275	-	-
1969-S405	2440414.29	1969 Jul 11 1900:42	Skylark	7C	S38/2	ESRO S38/2	-	-	-	SDQ	-	-	-	203	-	-
1969-S406	2440416.32	1969 Jul 13 1941:00	Skylark 3	-	S64/2	ESRO S64/2	-	-	-	SDQ	-	-	-	280	-	-
1969-S407	2440417.50	1969 Jul 14 2353	Skylark	5C	SL722	SHF-7/UCW-16	-	-	-	WOO	LA2 SL	-	-	216	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A125	2440418.50	1969 Jul 16	Jabiru 2	-	J208	WRE Ablation	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1969-S412	2440419.44	1969 Jul 16 2233	Skylark 3	-	SL729	MSSL I-31/QUB AGP6	-	-	-	WOO	LA2 SL	-	-	244	-	-
1969-S422	2440427.67	1969 Jul 25 0410	Skylark	5C	SL721	SHF-8/UCW-17	-	-	-	WOO	LA2 SL	-	-	213	-	-
1969-S430	2440432.46	1969 Jul 29 2257	Skylark 3	-	SL730	MSSL I-32/QUB AGP7	-	-	-	WOO	LA2 SL	-	-	262	-	-
1969-S459	2440454.58	1969 Aug 21 0157	Skylark 3 AC	-	SL605	LUX-47 HRCS/PHC	-	-	-	WOO	LA2 SL	-	-	197	-	-
1969-S534	2440500.44	1969 Oct 5 2228:10	Skylark 2	-	S29/1	ESRO S29/1 RSRS-10	-	-	-	ESR	S	-	-	234	-	-
1969-S547	2440510.30	1969 Oct 15 1916	Skylark 3	-	SL861	UCL GTBa-1 TMA/Ba	-	-	-	WOO	LA2 SL	-	-	318	-	-
1969-A178	2440510.50	1969 Oct 16	Jabiru 2	-	J209	UK-2G/HRV 930	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1969-S552	2440511.91	1969 Oct 17 0945	Skylark 3	-	SL862	UCL GTBa-2	-	-	-	WOO	LA2 SL	-	-	318	-	-
1969-S554	2440512.44	1969 Oct 17 2226:40	Skylark 2	-	S29/2	ESRO S29/2 RSRS-11	-	-	-	ESR	S	-	-	230	-	-
1969-S564	2440514.81	1969 Oct 20 0728	Skylark 3 AC	-	SL586	RAE Test 41	-	-	-	WOO	LA2 SL	-	-	223	-	-
1969-S568	2440516.76	1969 Oct 22 0610	Skylark 3	-	SL821	MSSL XR1/MSSL SX5	-	-	-	WOO	LA2 SL	-	-	216	-	-
1969-S575	2440518.74	1969 Oct 24 0544:00	Skylark	7C	S68/1	ESRO S68/1	-	-	-	SDQ	-	-	-	184	-	-
1969-S626	2440536.38	1969 Nov 10 2100:12	Skylark 2	-	S46/1	ESRO S46/1 SHF-9	-	-	-	ESR	S	-	-	214	-	-
1969-S628	2440543.60	1969 Nov 18 0217	Skylark 3 AC	-	SL602	MSSL XR2 FSG	-	-	-	WOO	LA2 SL	-	-	208	-	-
1969-S632	2440545.54	1969 Nov 20 0100	Skylark 3 AC	-	SL801	Cul UVS/XUVS 14	-	-	-	WOO	LA2 SL	-	-	242	-	-
1969-A194	2440551.50	1969 Nov 26	Rook IIIA	-	Ob3	Oberon 3	-	-	-	WOO	LA2 HRV	-	-	20?	-	-
1969-S637	2440552.48	1969 Nov 26 2332	Skylark 3 AC	-	SL603	Cul UVS 15	-	-	-	WOO	LA2 SL	-	-	180	-	-
1970-S81	2440611.10	1970 Jan 24 1427	Skylark 1	-	ESRO S56A/1	RSRS SUV-1	-	-	-	SDQ	-	-	-	100?	-	-
1970-A20	2440622.50	1970 Feb 5	Rook IIIA	-	Ly8	Lynx 8	-	-	-	ABER	A?	-	-	20?	-	-
1970-S106	2440624.32	1970 Feb 6 1942	Skylark 2 AC	-	ESRO S44/1	ESRO S44/1	-	-	-	SDQ	-	-	-	211	-	-
1970-S114	2440628.09	1970 Feb 10 1410	Skylark 3 AC	-	ESRO S72	UCL UVS-1	-	-	-	WOO	LA2 SL	-	-	244	-	-
1970-S120	2440632.18	1970 Feb 14 1615:40	Skylark 2	-	ESRO S66/2	ESRO S66/2	-	-	-	ESR	S	-	-	210	-	-
1970-S143	2440642.30	1970 Feb 24 1909:59	Skylark 2	-	S70/1	ESRO S70/1	-	-	-	ESR	S	-	-	186	-	-
1970-S153	2440643.19	1970 Feb 25 1633:03	Skylark 2	-	S61/1	ESRO S61/1	-	-	-	ESR	S	-	-	220	-	-
1970-S158	2440643.70	1970 Feb 26 0447	Skylark 2	-	S61/2	ESRO S61/2	-	-	-	ESR	S	-	-	225	-	-
1970-S242	2440657.42	1970 Mar 11 2201	Skylark 3	-	SL921	MSSL XR3 RMC	-	-	-	WOO	LA2 SL	-	-	247	-	-
1970-S249	2440664.44	1970 Mar 18 2230	Skylark 3 AC	-	SL901	LUX XRS7 BCS	-	-	-	WOO	LA2 SL	-	-	208	-	-
1970-S258	2440665.14	1970 Mar 19 1518	Skylark 3 AC	-	SL401	ROE-9 UV Schmidt OP	-	-	-	WOO	LA2 SL	-	-	181	-	-
1970-A37	2440667.59	1970 Mar 22 0208	Skylark 3	-	SN5/1	DLR S-CR-21	-	-	-	SDQ	-	-	-	0?	-	-
1970-S262	2440670.42	1970 Mar 24 2200	Skylark 3 AC	-	SL802	LUX XRS8 MC	-	-	-	WOO	LA2 SL	-	-	179	-	-
1970-A47	2440677.50	1970 Apr 1	Jabiru 2	-	J210	HRV 931/WRE Delta	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1970-S278	2440678.57	1970 Apr 2 0146	Skylark 2	-	S66/1	ESRO S66/1	-	-	-	ESR	S	-	-	198	-	-
1970-S284	2440681.30	1970 Apr 4 1912	Skylark 2	-	S28/1	ESRO S28/1 QUB Na-12	-	-	-	ESR	S	-	-	203	-	-
1970-S285	2440683.64	1970 Apr 7 0320	Skylark 3 AC	-	SL803	Cul UVS 16	-	-	-	WOO	LA2 SL	-	-	204	-	-
1970-S307	2440692.88	1970 Apr 16 0907:50	Skylark 3	-	SL728	UAT-5/MO-11	-	-	-	WOO	LA2 SL	-	-	210	-	-
1970-A74	2440760.09	1970 Jun 22 1404	Skylark 2	-	S68/2	ESRO S68/2	-	-	-	SDQ	-	-	-	3	-	-
1970-S416	2440771.33	1970 Jul 3 1951	Skylark 1	-	S63/2	ESRO S63/2	-	-	-	SDQ	-	-	-	150	-	-
1970-S421	2440776.32	1970 Jul 8 1945	Skylark 1	-	S63/1	ESRO S63/1	-	-	-	SDQ	-	-	-	149	-	-
1970-S425	2440777.52	1970 Jul 10 0030	Skylark	5C	SL727	UAT-6/MSSL I-33	-	-	-	WOO	LA2 SL	-	-	203	-	-
1970-S430	2440781.70	1970 Jul 14 0452	Skylark 6	-	SL971	MSSL XR4 RMC	-	-	-	WOO	LA2 SL	-	-	223	-	-
1970-S434	2440783.10	1970 Jul 15 1429	Skylark 3 AC	-	SL811	Cul FUV-1	-	-	-	WOO	LA2 SL	-	-	164	-	-
1970-S440	2440791.08	1970 Jul 23 1355	Skylark 1	-	ESRO S56A/2	LUX-50/RSRS SUV-2	-	-	-	SDQ	-	-	-	137	-	-
1970-S441	2440791.64	1970 Jul 24 0326	Skylark 1	-	ESRO S65/1	RSRS SUV-3?	-	-	-	SDQ	-	-	-	125	-	-
1970-S449	2440794.68	1970 Jul 27 0416	Skylark 1	-	ESRO S65/2	RSRS SUV-4?	-	-	-	SDQ	-	-	-	128	-	-
1970-S560	2440867.85	1970 Oct 8 0820	Skylark 6	-	SL972	LUX XRS9	-	-	-	WOO	LA2 SL	-	-	232	-	-
1970-S565	2440872.51	1970 Oct 13 0008:07	Skylark 3	-	SN5/2	DLR S-CR-22	-	-	-	SDQ	-	-	-	288	-	-
1970-S567	2440873.86	1970 Oct 14 0845	Skylark 3	-	SL1021	MSSL XR5 RMC	-	-	-	WOO	LA2 SL	-	-	270	-	-
1970-S569	2440875.52	1970 Oct 16 0030	Skylark 3 AC	-	ESRO S53	ESRO S53	-	-	-	WOO	LA2 SL	-	-	209	-	-
1970-S570	2440878.50	1970 Oct 19	Skylark 3 AC	-	ESRO S58	Cul UVS 17	-	-	-	WOO	LA2 SL	-	-	200?	-	-
1970-S583	2440887.36	1970 Oct 27 2034:22	Skylark 2	-	ESRO S67/1	ESRO S67/1 RSRS-15	-	-	-	ESR	S	-	-	229	-	-
1970-S586	2440889.40	1970 Oct 29 2139:30	Skylark 2	-	ESRO S67/2	ESRO S67/2 RSRS-16	-	-	-	ESR	S	-	-	234	-	-
1970-S601	2440901.70	1970 Nov 11 0455	Skylark 3 AC	-	SL905	MSSL XR6	-	-	-	WOO	LA2 SL	-	-	183	-	-
1970-S610	2440910.42	1970 Nov 19 2200	Skylark 3 AC	-	SL904	LUX XRS10	-	-	-	WOO	LA2 SL	-	-	209	-	-
1970-S625	2440915.43	1970 Nov 24 2213	Skylark 3 AC	-	SL804	LUX BCS 3	-	-	-	WOO	LA2 SL	-	-	182	-	-
1970-S634	2440926.97	1970 Dec 6 1113	Skylark 3	-	ESRO S69	LUX BCS 4	-	-	-	SDQ	-	-	-	187	-	-
1971-A08	2440965.98	1971 Jan 14 1138	Skylark 6	-	LT.1	DLR AB-GR-40	-	-	-	ABER	A	-	-	7	-	-
1971-S101	2440980.27	1971 Jan 28 1833:46	Skylark 2	-	S46/2	ESRO S46/2	-	-	-	ESR	S	-	-	218	-	-
1971-S103	2440980.83	1971 Jan 29 0755	Skylark 3 AC	-	SL1001	MSSL XR7	-	-	-	WOO	LA2 SL	-	-	203	-	-
1971-S116	2440989.27	1971 Feb 6 1830	Skylark 3	-	S80/1	ESRO S80/1	-	-	-	SDQ	-	-	-	222	-	-
1971-S117	2440989.47	1971 Feb 6 2322	Skylark 3	-	S80/2	ESRO S80/2	-	-	-	SDQ	-	-	-	226	-	-
1971-S118	2440989.66	1971 Feb 7 0345	Skylark 3	-	S80/3	ESRO S80/3	-	-	-	SDQ	-	-	-	214	-	-
1971-S127	2441004.99	1971 Feb 22 1140	Skylark 3 AC	-	ESRO S85	MSSL UVS-2	-	-	-	WOO	LA2 SL	-	-	222	-	-
1971-S133	2441008.93	1971 Feb 26 1018	Skylark 3 AC	-	ESRO S54	MSSL SX6	-	-	-	SDQ	-	-	-	250	-	-
1971-S143	2441012.92	1971 Mar 2 1008	Skylark 3	-	SL922	UCL-MI1 Ionos Curr.	-	-	-	WOO	LA2 SL	-	-	223	-	-
1971-S158	2441013.38	1971 Mar 2 2114:20	Skylark 2	-	ESRO S16/2	ESRO S16/2	-	-	-	ESR	S	-	-	143	-	-
1971-S154	2441021.87	1971 Mar 11 0856	Skylark 3 AC	-	ESRO S55	LUX BCS 5	-	-	-	SDQ	-	-	-	159	-	-
1971-S167	2441026.25	1971 Mar 15 1755:16	Skylark 2	-	ESRO S87/1	ESRO S87/1	-	-	-	ESR	S	-	-	188	-	-
1971-S205	2441035.27	1971 Mar 24 1832:00	Skylark 2	-	ESRO S87/2	ESRO S87/2	-	-	-	ESR	S	-	-	190	-	-
1971-S206	2441036.08	1971 Mar 25 1350	Skylark	7C	ESRO S56B/1	LUX-55/RSRS	-	-	-	SDQ	-	-	-	130	-	-
1971-S271	2441082.00	1971 May 10 1203	Skylark 6 AC	-	SL812	LUX XRS11 Survey	-	-	-	WOO	LA2 SL	-	-	219	-	-
1971-S280	2441085.50	1971 May 14	Skylark 1	-	S56B/2	LUX-57/RSRS	-	-	-	SDQ	-	-	-	190?	-	-
1971-A57	2441124.50	1971 Jun 22	Rook IIIA	?	Ori23	-	-	-	-	ABER	A?	-	-	20?	-	-
1971-A60	2441132.50	1971 Jul	Rook IIIA	-	F1	FFARV	-	-	-	WOO	LA2 HRV	-	-	4	-	-
1971-S353	2441134.95	1971 Jul 2 1055	Skylark 3 AC	-	S73	ESRO S73	-	-	-	SDQ	-	-	-	224	-	-
1971-A61	2441135.50	1971 Jul 3	Rook IIIA	-	Ly7	Lynx 7	-	-	-	ABER	A?	-	-	20?	-	-
1971-A116	2441162.50	1971 Jul 30	Zenit	C	Zenit-Cuckoo	ESRO Z82/1	-	-	-	SDQ	-	-	-	26	-	-
1971-S383	2441168.59	1971 Aug 5 0215	Skylark 6 AC	-	SL902	Cul UVS 18	-	-	-	WOO	LA2 SL	-	-	272	-	-
1971-S477	2441221.60	1971 Sep 27 0230	Skylark 6 AC	-	SL1002	LUX XRS12	-	-	-	WOO	LA2 SL	-	-	224	-	-
1971-S481	2441224.17	1971 Sep 29 1600	Skylark 3	-	ESRO S47/2	ROE-10	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1971-S508	2441231.90	1971 Oct 7 0940	Skylark 6	-	SL973	MSSL XR8 RMC	-	-	-	WOO	LA2 SL	-	-	233	-	-
1971-S520	2441236.50	1971 Oct 12	Skylark 3	-	ESRO S81	ESRO S81	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1971-A88	2441244.50	1971 Oct 20	Jabiru 2	-	J-1	Chevaline?	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1971-S535	2441244.90	1971 Oct 20 0940	Skylark 3 AC	-	ESRO S89	LUX BCS 6	-	-	-	SDQ	-	-	-	210?	-	-
1971-S541	2441248.98	1971 Oct 24 1135	Skylark 6	-	SL974	MSSL XR9	-	-	-	WOO	LA2 SL	-	-	245	-	-
1971-A97	2441271.50	1971 Nov 16 0004	Skylark 2 AC	-	ESRO S44/2	ESRO S44/2	-	-	-	SDQ	-	-	-	0?	-	-

						Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S574	2441281.22	1971 Nov 25 1713:05	Skylark 2	-	ESRO S70/2	ESRO S70/2	-	-	-	ESR	S	-	-	172	-	-
1971-S575	2441285.75	1971 Nov 30 0559	Skylark 3 AC	-	SL1101	LUX BCS 7	-	-	-	WOO	LA2 SL	-	-	193	-	-
1971-A105	2441289.50	1971 Dec 4	Jabiru 2	-	J-2	Chevaline?	-	-	-	WOO	LA2 HRV	-	-	30?	-	-
1971-S599	2441295.69	1971 Dec 10 0430	Skylark 3 AC	-	SL903	MSSL SX7 BCS	-	-	-	WOO	LA2 SL	-	-	198	-	-
1971-S605	2441300.01	1971 Dec 14 1211:16	Skylark 2	-	ESRO S82	ESRO S82/2	-	-	-	SDQ	-	-	-	151	-	-
1972-S92	2441375.75	1972 Feb 28 0554:00	Skylark 3 AC	-	ESRO S84	ESRO S84	-	-	-	SDQ	-	-	-	242	-	-
1972-S93	2441375.91	1972 Feb 28 0947:03	Skylark 3 AC	-	ESRO S90	ESRO S90	-	-	-	SDQ	-	-	-	251	-	-
1972-S96	2441379.44	1972 Mar 2 2226:50	Skylark 4	-	ESRO S77/1	ESRO S77/1	-	-	-	ESR	S	-	-	237	-	-
1972-S115	2441392.60	1972 Mar 16 0230	Skylark 6	-	SL1023	UCL-MI2 Midday Sq	-	-	-	WOO	LA2 SL	-	-	260	-	-
1972-S119	2441393.72	1972 Mar 17 0510	Skylark 6 AC	-	SL1009	Cul UVS 19	-	-	-	WOO	LA2 SL	-	-	237	-	-
1972-S136	2441401.48	1972 Mar 24 2331	Skylark 2	-	ESRO S75/1	ESRO S75/1	-	-	-	SDQ	-	-	-	136	-	-
1972-S138	2441403.48	1972 Mar 26 2330	Skylark 6 AC	-	SL1081	RAE Test 42 (ER1)	-	-	-	WOO	LA2 SL	-	-	279	-	-
1972-S142	2441406.56	1972 Mar 30 0125	Skylark 4	-	ESRO S75/2	ESRO S75/2	-	-	-	SDQ	-	-	-	133	-	-
1972-A67	2441490.50	1972 Jun 22	Rook	-	Ba5	Badger 5	-	-	-	ABER	A?	-	-	20?	-	-
1972-S249	2441494.12	1972 Jun 25 1447	Skylark 3 AC	-	ESRO S91	MSSL XR10	-	-	-	SDQ	-	-	-	213	-	-
1972-S252	2441503.50	1972 Jul 5	Skylark 6 AC	-	SL1191	SUPER ANTELOPE S1	-	-	-	WOO	LA2 SL	-	-	150?	-	-
1972-A80	2441518.50	1972 Jul 20	Skylark 6	-	SL1183	RAE Test 43 (Dummy)	-	-	-	ABER	A	-	-	5?	-	-
1972-S313	2441585.41	1972 Sep 24 2150	Skylark 4	-	ESRO S77/2	ESRO S77/2	-	-	-	ESR	S	-	-	227	-	-
1972-S344	2441603.52	1972 Oct 13 0028:15	Skylark 2	-	ESRO S105	ESRO S105	-	-	-	ESR	S	-	-	207	-	-
1972-S351	2441608.28	1972 Oct 17 1839	Skylark 2	-	SL1022	QUB AGP8/SHF-10	-	-	-	WOO	LA2 SL	-	-	142	-	-
1972-S359	2441613.99	1972 Oct 23 1151	Skylark 6 AC	-	SL402	MSSL XR11/MO LunarUV	-	-	-	WOO	LA2 SL	-	-	210	-	-
1972-S367	2441616.69	1972 Oct 26 0430	Skylark 3 AC	-	SL1003	MSSL SX8 BCS/RMC	-	-	-	WOO	LA2 SL	-	-	195	-	-
1972-S388	2441623.76	1972 Nov 2 0610	Skylark 6 AC	-	ESRO S95	ESRO S95	-	-	-	WOO	LA2 SL	-	-	211	-	-
1972-S400	2441641.70	1972 Nov 20 0454	Skylark 3	-	ESRO S94	ESRO S94	-	-	-	SDQ	-	-	-	210?	-	-
1972-S417	2441658.71	1972 Dec 7 0503	Skylark 3 AC	-	SL1202	LUX XRS13	-	-	-	WOO	LA2 SL	-	-	248	-	-
1972-S423	2441662.50	1972 Dec 11 0000	Skylark 3 AC	-	SL1005	QUB AGP9/SHF-11	-	-	-	WOO	LA2 SL	-	-	196	-	-
1972-S434	2441665.10	1972 Dec 13 1419:59	Zenit	C	Zenit-Cuckoo	DLR A-ZC-48 Astrik	-	-	-	AND	-	-	-	144	-	-
1973-S40	2441712.77	1973 Jan 30 0635	Skylark 3 AC	-	SL1205	MSSL XR12	-	-	-	WOO	LA2 SL	-	-	234	-	-
1973-S86	2441742.38	1973 Feb 28 2100	Skylark 6 AC	-	SL1010	LUX XRS14	-	-	-	WOO	LA2 SL	-	-	199	-	-
1973-S103	2441755.64	1973 Mar 14 0315	Skylark 6 AC	-	SL1004	Cul Wolter XUVS-1	-	-	-	WOO	LA2 SL	-	-	226	-	-
1973-S112	2441761.70	1973 Mar 20 0452	Skylark 6 AC	-	SL1102	Cul UVS 20	-	-	-	WOO	LA2 SL	-	-	242	-	-
1973-S116	2441764.24	1973 Mar 22 1743	Skylark 6 AC	-	SL1182	RAE SL1182	-	-	-	MER	-	-	-	240	-	-
1973-S124	2441770.24	1973 Mar 28 1751	Skylark 6 AC	-	SL1181	RAE SL1181	-	-	-	MER	-	-	-	240	-	-
1973-S153	2441790.15	1973 Apr 17 1535	Skylark 6 AC	-	SL1011	LUX XRS15	-	-	-	WOO	LA2 SL	-	-	214	-	-
1973-S203	2441849.94	1973 Jun 16 1030	Skylark 6 AC	-	SL1111	Cul FUV-2	-	-	-	WOO	LA2 SL	-	-	227	-	-
1973-S234	2441880.50	1973 Jul 17	Skylark 3 AC	-	SL1291	SUPER ANTELOPE S2	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1973-S267	2441898.84	1973 Aug 4 0810	Skylark 4 AC	-	SL1081A	BAC ER1	-	-	-	ESR	S	-	-	7	-	-
1973-S338	2441957.58	1973 Oct 2 0152:06	Skylark 2 AC	-	ESRO S93	DLR H-GR-57	INTA SKY-S93	-	-	ELAR	MORABA	-	-	186	-	-
1973-S343	2441961.65	1973 Oct 6 0331:34	Skylark 4 AC	-	ESRO S92	DLR H-GR-56	INTA SKY-S92	-	-	ELAR	MORABA	-	-	260	-	-
1973-S347	2441972.32	1973 Oct 16 1943:39	Skylark 6	-	SL1121	UK High Lat 1	-	-	-	AND	-	-	-	267	-	-
1973-S369	2441986.29	1973 Oct 30 1850:44	Skylark 6	-	SL1122	UK High Lat 2	-	-	-	AND	-	-	-	229	-	-
1973-S482	2442000.50	1973 Nov 14	Jabiru 3	-	J-3	Ablation 1	-	-	-	WOO	LA2 HRV	-	-	285	-	-
1973-S389	2442003.45	1973 Nov 16 2245:50	Skylark 6	-	SL1123	UK High Lat 3	-	-	-	AND	-	-	-	216	-	-
1973-S407	2442012.73	1973 Nov 26 0535	Skylark 6 AC	-	SL1206	LUX BCS 8 (Mk3 BCS)	-	-	-	WOO	LA2 SL	-	-	238	-	-
1973-S408	2442013.58	1973 Nov 27 0151:56	Skylark 4 AC	-	ESRO S74	DLR H-GR-55	INTA SKY-S74	-	-	ELAR	MORABA	-	-	246	-	-
1973-S424	2442022.47	1973 Dec 5 2323:58	Skylark 4	-	SL1124	UK High Lat 4	-	-	-	AND	-	-	-	222	-	-
1973-S483	2442022.50	1973 Dec 6	Jabiru 3	-	J-4	Ablation 2	-	-	-	WOO	LA2 HRV	-	-	250?	-	-
1974-S56	2442060.30	1974 Jan 12 1912:33	Skylark 4 AC	-	HRC 1	DLR H-GR-58	INTA SKY-N60	-	-	ELAR	MORABA	-	-	246	-	-
1974-S87	2442083.11	1974 Feb 4 1440	Skylark 6 AC	-	SL1203	MSSL XR13/UCB EUV	-	-	-	WOO	LA2 SL	-	-	197	-	-
1974-S179	2442160.54	1974 Apr 23 0103	Skylark 6 AC	-	SL1207	UCL Ionos-Ba	-	-	-	WOO	LA2 SL	-	-	177	-	-
1974-S222	2442216.71	1974 Jun 18 0500	Skylark 6 AC	-	SL1104	MSSL XR14	-	-	-	WOO	LA2 SL	-	-	234	-	-
1974-S274	2442250.50	1974 Jul 22	Skylark 3 AC	-	SL1292	CHEVALINE S4?	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1974-A36	2442296.50	1974 Sep 6	Jabiru 3	-	J-5	RAE Aero Model	-	-	-	WOO	LA2 HRV	-	-	15?	-	-
1974-S337	2442325.15	1974 Oct 4 1540	Skylark 6 AC	-	SL1012	MSSL XR15 XRCS	-	-	-	WOO	LA2 SL	-	-	196	-	-
1974-S341	2442327.77	1974 Oct 7 0633:30	Skylark 6 AC	-	SL1304	DLR H-GR-59	Astro 9 (LUX XRS16)	-	-	ELAR	MORABA	-	-	190	-	-
1974-S343	2442330.73	1974 Oct 10 0530	Skylark 10A	-	SL1471	Meadowlark	-	-	-	WOO	LA2?	-	-	270	-	-
1974-A50	2442351.50	1974 Oct 31	Jabiru 3	-	J-6	RAE Aero Model	-	-	-	WOO	LA2 HRV	-	-	15?	-	-
1974-S371	2442353.36	1974 Nov 1 2043:42	Skylark 6	-	SL1221 (ESRO S107)	UK High Lat 5	-	-	-	AND	-	-	-	225	-	-
1974-A54	2442371.50	1974 Nov 20	Jabiru 3	-	J-7	RAE Aero Model	-	-	-	WOO	LA2 HRV	-	-	15?	-	-
1974-S392	2442380.19	1974 Nov 28 1640	Skylark 6 AC	-	SL911	Cul FUV-3 Echelle	-	-	-	WOO	LA2 SL	-	-	203	-	-
1975-S79	2442468.57	1975 Feb 25 0135	Skylark 7 AC	-	SL1301	Cul Wolter XUVS-2	-	-	-	WOO	LA2 SL	-	-	282	-	-
1975-S84	2442471.50	1975 Feb 28	Skylark 3 AC	-	SL1293	CHEVALINE S5?	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1975-S103	2442485.70	1975 Mar 14 0452	Skylark 6 AC	-	ESRO S98 (Astro 1/2)	DLR W-GR-67	-	-	-	WOO	LA2 SL	-	-	270?	-	-
1975-S212	2442587.97	1975 Jun 24 1118	Skylark 6 AC	-	SL1105	LUX XRS17	-	-	-	WOO	LA2 SL	-	-	180	-	-
1975-S223	2442596.50	1975 Jul 3	Skylark 6 AC	-	SL1295	CHEVALINE S6?	-	-	-	WOO	LA2 SL	-	-	270?	-	-
1975-S299	2442694.70	1975 Oct 9 0449:25	Skylark 6 AC	-	ESRO S103	DLR H-GR-68 (Astro 7)	INTA SKY-A7	-	-	ELAR	MORABA	-	-	254	-	-
1975-S326	2442741.14	1975 Nov 24 1515	Skylark 7 AC	-	SL1112	LUX XRS18/Saclay	-	-	-	WOO	LA2 SL	-	-	251	-	-
1976-S47	2442782.15	1976 Jan 4 1530:03	Skylark 3 AC	-	DLR H-CR-69	Winter Anom B-II-1	INTA SKY.3-7601	-	-	ELAR	MORABA	-	-	116	-	-
1976-S67	2442799.15	1976 Jan 21 1531:00	Skylark 3 AC	-	DLR H-CR-71	Winter Anom B-II-2	INTA SKY.3-7602	-	-	ELAR	MORABA	-	-	116	-	-
1976-A06	2442805.23	1976 Jan 27 1730:00	Skylark 4 AC	-	Heatpipe I	DLR K-GR-73	-	-	-	ESR	S	-	-	2	-	-
1976-S85	2442807.55	1976 Jan 30 0107	Skylark 7 AC	-	SL1302	MSSL SX9 Coronal	-	-	-	WOO	LA2 SL	-	-	278	-	-
1976-S180	2442910.95	1976 May 12 1050	Skylark 7 AC	-	SL1115	MSSL XR16-Bir XR1	-	-	-	WOO	LA2 SL	-	-	231	-	-
1976-S188	2442925.52	1976 May 27 0030	Skylark 7	-	SL1211/1271?	RAE/BAE Test	Li release	-	-	WOO	LA2 SL	-	-	254	-	-
1976-S200	2442940.24	1976 Jun 10 1740	Skylark 7 AC	-	SL1212	MSSL XR17 XRCS	-	-	-	WOO	LA2 SL	-	-	280	-	-
1976-S204	2442946.82	1976 Jun 17 0747	Skylark 7 AC	-	SL1501	Bir XR2 coded mask	-	-	-	WOO	LA2 SL	-	-	256	-	-
1976-S227	2442976.76	1976 Jul 17 0610	Skylark 7 AC	-	SL1402 (DLR H-GR-77)	MSSL XR18 XRCS-MPE	INTA SKY.7-7601	-	-	ELAR	MORABA	-	-	256	-	-
1976-S318	2443086.82	1976 Nov 4 0745	Skylark 6 AC	-	SL1306	LUX XRS19 LAPC	-	-	-	WOO	LA2 SL	-	-	191	-	-
1976-S333	2443104.38	1976 Nov 21 2114:09	Skylark 12	-	SL1422	UK High Lat 6	-	-	-	AND	-	-	-	715	-	-
1976-S341	2443115.11	1976 Dec 2 1440	Skylark 7 AC	-	SL1114	Cul FUV-4 Echelle	-	-	-	WOO	LA2 SL	-	-	263	-	-
1976-S345	2443123.51	1976 Dec 11 0014:38	Skylark 12	-	SL1425	UK High Lat 7	-	-	-	AND	-	-	-	694	-	-
1977-S46	2443166.39	1977 Jan 22 2128:00	Skylark 7	-	PHA F2A AF6-F2	DLR A-GR-78 Eveline	-	-	-	AND	-	-	-	277	-	-
1977-S64	2443183.25	1977 Feb 8 1758:20	Skylark 3	-	S22	SSC S22 Auroral Arc	-	-	-	ESR	S	-	-	212	-	-
1977-S65	2443183.42	1977 Feb 8 2211:51	Skylark 7	-	PHA F1B AF6-F1	DLR A-GR-79 Silvia	-	-	-	AND	-	-	-	272	-	-
1977-S87	2443195.38	1977 Feb 20 2114:00	Skylark 7	-	PHA F3C AB3-F3	DLR A-GR-80 Georgine	-	-	-	AND	-	-	-	256	-	-
1977-S114	2443219.42	1977 Mar 16 2204:40	Skylark 7	-	PHA F4D AB3-F4	DLR A-GR-81 Christ.	-	-	-	AND	-	-	-	263	-	-
1977-S150	2443262.02	1977 Apr 28 1225	Skylark 7 AC	-	SL1115A	MSSL XR19 Tel	-	-	-	WOO	LA2 SL	-	-	244	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S195	2443302.50	1977 Jun 8	Skylark 3 AC	-	SL1298	CHEVALINE S7	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1977-S258	2443430.39	1977 Oct 13 2126:00	Skylark 12	-	DLR A-GRC-85	T/NL 3A Dagmar	-	-	-	AND	-	-	-	536	-	-
1977-S259	2443430.42	1977 Oct 13 2159:00	Skylark 12	-	SL1423	UK High Lat 8	-	-	-	AND	-	-	-	788	-	-
1977-S276	2443450.34	1977 Nov 2 2015:00	Skylark 12	-	DLR A-GRC-87	T/NL 1B	-	-	-	AND	-	-	-	541	-	-
1977-S284	2443465.40	1977 Nov 17 2132:36	Skylark 12	-	SL1421	UK High Lat 9	-	-	-	AND	-	-	-	718	-	-
1977-S303	2443490.87	1977 Dec 13 0846:39	Skylark 7	-	DLR K-GR-90	DLR TEXUS 1	-	-	-	ESR	S	-	-	265	-	-
1978-S53	2443539.40	1978 Jan 30 2137:00	Skylark 12	-	DLR A-GRC-86	T/NL 4C Gitti	-	-	-	AND	-	-	-	540	-	-
1978-S54	2443539.42	1978 Jan 30 2210:00	Skylark 12	-	DLR A-GRC-88	T/NL 2D Susanne	-	-	-	AND	-	-	-	541	-	-
1978-S132	2443640.71	1978 May 12 0501	Skylark 7 AC	-	SL1305	Cul UVS 21	-	-	-	WOO	LA2 SL	-	-	283	-	-
1978-S193	2443720.48	1978 Jul 30 2333:13	Skylark 1	-	SSC S26/1 ION	SSC S26A Noctilucent	-	-	-	ESR	S	-	-	114	-	-
1978-S273	2443734.48	1978 Aug 13 2338:17	Skylark 1	-	SSC S26/2 ION	SSC S26B Ion	-	-	-	ESR	S	-	-	127	-	-
1978-S228	2443822.68	1978 Nov 10 0414:22	Skylark 12	-	SL1424	UK High Lat 10	-	-	-	AND	-	-	-	796	-	-
1978-S230	2443827.50	1978 Nov 15	Skylark 3 AC	-	SL1296	CHEVALINE S8?	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1978-S232	2443828.83	1978 Nov 16 0749	Skylark 7	-	DLR K-GR-94	DLR TEXUS 2	-	-	-	ESR	S	-	-	265	-	-
1978-S254	2443855.50	1978 Dec 13	Skylark 3 AC	-	SL1297	CHEVALINE S9?	-	-	-	WOO	LA2 SL	-	-	210?	-	-
1979-S67	2443927.01	1979 Feb 22 1215:30	Skylark 6 AC	-	DLR W-GR-96	Astro 4-2	-	-	-	WOO	LA2 SL	-	-	192	-	-
1979-S86	2443933.50	1979 Mar 1	Skylark 6 AC	-	SL1299	CHEVALINE S10?	-	-	-	WOO	LA2 SL	-	-	270?	-	-
1979-S94	2443945.52	1979 Mar 13 0030:00	Skylark 7 AC	-	DLR W-GR-95	Astro 4-1	-	-	-	WOO	LA2 SL	-	-	258	-	-
1979-S217	2444159.09	1979 Oct 12 1409	Skylark 12 AC	-	DLR N-GRC-97	Astro-Hel	-	-	-	CLBI	MAN	-	-	829	-	-
1980-S97	2444357.80	1980 Apr 28 0710:02	Skylark 7	-	DLR K-GR-100	DLR TEXUS 3A	-	-	-	ESR	S	-	-	253	-	-
1980-S201	2444559.63	1980 Nov 16 0313	Skylark 7	-	DLR K-GR-104	EBC-B E2 (ENERGY EB1)	-	-	-	ESR	S	-	-	231	-	-
1981-S106	2444724.75	1981 Apr 30 0600	Skylark 7	-	DLR K-GR-109	DLR TEXUS 3B	-	-	-	ESR	S	-	-	253	-	-
1981-S109	2444732.73	1981 May 8 0527	Skylark 7	-	DLR K-GR-110	DLR TEXUS 4	-	-	-	ESR	S	-	-	258	-	-
1981-S182	2444948.39	1981 Dec 9 2125:35	Skylark 7	-	DLR K-GR-112	EBC81 E2 (ENERGY EB2)	-	-	-	ESR	S	-	-	237	-	-
1982-S111	2445088.72	1982 Apr 29 0520	Skylark 7	-	DLR K-GR-113	DLR TEXUS 5	-	-	-	ESR	S	-	-	256	-	-
1982-S115	2445097.73	1982 May 8 0530	Skylark 7	-	DLR K-GR-114	DLR TEXUS 6	-	-	-	ESR	S	-	-	256	-	-
1983-S96	2445459.71	1983 May 5 0505	Skylark 7	-	DLR K-GR-118	DLR TEXUS 7	-	-	-	ESR	S	-	-	227	-	-
1983-S99	2445467.98	1983 May 13 1137	Skylark 7	-	DLR K-GR-119	DLR TEXUS 8	-	-	-	ESR	S	-	-	264	-	-
1984-S49	2445727.32	1984 Jan 27 1937	Skylark 12	-	DLR A-GRC-131	CAESAR I	-	-	-	AND	-	-	-	676	-	-
1984-S58	2445740.67	1984 Feb 10 0412	Skylark 6	-	DLR K-GR-130	MAP/WINE M-I 1	-	-	-	ESR	S	-	-	180	-	-
1984-S84	2445823.68	1984 May 3 0413	Skylark 7	-	DLR K-GR-132	DLR TEXUS 9	-	-	-	ESR	S	-	-	258	-	-
1984-S89	2445835.82	1984 May 15 0746	Skylark 7	-	DLR K-GR-133	DLR TEXUS 10	-	-	-	ESR	S	-	-	216	-	-
1985-S29	2446096.31	1985 Jan 30 1930:00	Skylark 12	-	DLR A-GRC-134	CAESAR 2	-	-	-	AND	-	-	-	703	-	-
1985-A03	2446128.11	1985 Mar 3 1445	Skylark 12	-	DLR N-GRC-137	Interzodiak 1	-	-	-	CLBI	-	-	-	0?	-	-
1985-S71	2446182.68	1985 Apr 27 0415	Skylark 7	-	DLR K-GR-138	DLR TEXUS 11	-	-	-	ESR	S	-	-	266	-	-
1985-S73	2446191.69	1985 May 6 0435	Skylark 7	-	DLR K-GR-139	DLR TEXUS 12	-	-	-	ESR	S	-	-	253	-	-
1986-S44	2446550.69	1986 Apr 30 0440	Skylark 7	-	DLR K-GR-141	DLR TEXUS 13	-	-	-	ESR	S	-	-	246	-	-
1986-S45	2446562.70	1986 May 12 0455	Skylark 7	-	DLR K-GR-142	DLR TEXUS 14A	-	-	-	ESR	S	-	-	250	-	-
1987-S82	2446918.67	1987 May 3 0359:59	Skylark 7	-	DLR K-GR-144	DLR TEXUS 14B	-	-	-	ESR	S	-	-	250	-	-
1987-S84	2446924.67	1987 May 9 0400	Skylark 7	-	DLR K-GR-146	DLR TEXUS 15	-	-	-	ESR	S	-	-	10?	-	-
1987-S130	2447032.19	1987 Aug 24 1630	Skylark 7	-	DLR W-GR-147	Supernova	-	-	-	WOO	LA2 D	-	-	270?	-	-
1987-A20	2447122.88	1987 Nov 23 0910	Skylark 7	-	DLR K-GR-153	DLR TEXUS 16	-	-	-	ESR	S	-	-	0?	-	-
1988-S93	2447290.88	1988 May 9 0905	Skylark 7	-	DLR K-GR-157	Testflug (BAE 1	-	-	-	ESR	S	-	-	262	-	-
1988-S115	2447408.09	1988 Sep 3 1410	Skylark 12	-	DLR N-GRC-158	Interzodiak 2	-	-	-	CLBI	-	-	-	857	-	-
1988-S138	2447492.21	1988 Nov 26 1700	Skylark 2	-	DLR A-CR-159	DLR ROSE I	-	-	-	AND	-	-	-	120	-	-
1988-S139	2447493.85	1988 Nov 28 0820:10	Skylark 7	-	DLR K-GR-161	DLR TEXUS 19	-	-	-	ESR	S	-	-	244	-	-
1988-S142	2447497.92	1988 Dec 2 1005	Skylark 7	-	DLR K-GT-162	DLR TEXUS 20	-	-	-	ESR	S	-	-	238	-	-
1988-S143	2447501.44	1988 Dec 5 2230	Skylark 2	-	DLR A-CR-160	DLR ROSE II	-	-	-	AND	-	-	-	113	-	-
1989-S36	2447565.48	1989 Feb 7 2336:30	Skylark 2	-	DLR K-CR-164	DLR ROSE III	-	-	-	ESR	S	-	-	124	-	-
1989-S37	2447567.49	1989 Feb 9 2342	Skylark 2	-	DLR K-CR-165	DLR ROSE IV	-	-	-	ESR	S	-	-	125	-	-
1989-S54	2447646.66	1989 Apr 30 0348	Skylark 7	-	DLR K-GR-167	DLR TEXUS 21	-	-	-	ESR	S	-	-	268	-	-
1989-S55	2447649.65	1989 May 3 0330	Skylark 7	-	DLR K-GR-168	DLR TEXUS 22	-	-	-	ESR	S	-	-	223	-	-
1989-S109	2447855.84	1989 Nov 25 0805	Skylark 7	-	DLR K-GR-170	DLR TEXUS 23	-	-	-	ESR	S	-	-	249	-	-
1989-S112	2447866.84	1989 Dec 6 0811:08	Skylark 7	-	DLR K-GR-171	DLR TEXUS 24	-	-	-	ESR	S	-	-	244	-	-
1990-S55	2447956.70	1990 Mar 6 0441	Skylark 6	-	DLR K-GRVI-173	DLR SISSI 1	-	-	-	ESR	S	-	-	178	-	-
1990-S87	2448024.66	1990 May 13 0352	Skylark 7	-	DLR K-GR-178	DLR TEXUS 25	-	-	-	ESR	S	-	-	234	-	-
1990-S91	2448026.61	1990 May 15 0245	Skylark 7	-	DLR K-GR-179	DLR TEXUS 26	-	-	-	ESR	S	-	-	235	-	-
1990-S105	2448099.46	1990 Jul 26 2305	Skylark 6	-	DLR K-GRVI-181	DLR SISSI 2	-	-	-	ESR	S	-	-	168	-	-
1990-S114	2448106.44	1990 Aug 2 2240	Skylark 7	-	DLR K-GR-182	DLR SISSI 3	-	-	-	ESR	S	-	-	239	-	-
1990-S153	2448210.80	1990 Nov 15 0705	Skylark 7	-	DLR K-GR-183	DLR TEXUS 27	-	-	-	ESR	S	-	-	249	-	-
1990-S158	2448220.73	1990 Nov 25 0527:00	Skylark 12	-	DLR K-GRC-184	SSC Maxus Test	-	-	-	ESR	S	-	-	534	-	-
1991-S94	2448356.28	1991 Apr 9 1849:59	Skylark 7	-	DLR K-GR-187	DLR SISSI 4	-	-	-	ESR	S	-	-	245	-	-
1991-S173	2448583.90	1991 Nov 23 0940	Skylark 7	-	DLR K-GR-196	DLR TEXUS 28	-	-	-	ESR	S	-	-	239	-	-
1992-S97	2448948.89	1992 Nov 22 0922	Skylark 7	-	DLR K-GR-199	DLR TEXUS 29	-	-	-	ESR	S	-	-	230	-	-
1993-S30	2449108.73	1993 May 1 0535	Skylark 7	-	DLR K-GR-201	DLR TEXUS 30	-	-	-	ESR	S	-	-	234	-	-
1993-S68	2449295.80	1993 Nov 4 0707	Skylark 7	-	MASER 6	SSC MASER 6	-	-	-	ESR	S	-	-	243	-	-
1993-S71	2449317.96	1993 Nov 26 1100	Skylark 7	-	DLR K-GR-205	DLR TEXUS 31	-	-	-	ESR	S	-	-	257	-	-
1994-S33	2449477.68	1994 May 5 0415	Skylark 7	-	DLR K-GR-209	DLR TEXUS 32	-	-	-	ESR	S	-	-	235	-	-
1994-S85	2449686.94	1994 Nov 30 1030	Skylark 7	-	DLR K-GR-213	DLR TEXUS 33	-	-	-	ESR	S	-	-	267	-	-
1996-S10	2450144.92	1996 Mar 2 1000	Skylark 7	-	DLR K-GR-220	DLR TEXUS 34	-	-	-	ESR	S	-	-	232	-	-
1996-S19	2450206.68	1996 May 3 0416	Skylark 7	-	DLR K-GR-221	SSC MASER 7	-	-	-	ESR	S	-	-	252	-	-
1996-S72	2450411.96	1996 Nov 24 1105	Skylark 7	-	DLR K-GR-222	DLR TEXUS 35	-	-	-	ESR	S	-	-	267	-	-
1998-S09	2450851.82	1998 Feb 7 0740	Skylark 7	-	DLR K-GR-231	DLR TEXUS 36	-	-	-	ESR	S	-	-	238	-	-
1999-S32	2451312.98	1999 May 14 1133	Skylark 7	-	MASER 8	SSC MASER 8	-	-	-	ESR	S	-	-	260	-	-
2000-S16	2451630.97	2000 Mar 27 1117	Skylark 7	-	TEXUS 37	DLR TEXUS 37	-	-	-	ESR	S	-	-	243	-	-
2000-S17	2451636.82	2000 Apr 2 0734	Skylark 7	-	TEXUS 38	DLR TEXUS 38	-	-	-	ESR	S	-	-	250	-	-
2001-S20	2452037.91	2001 May 8 0955	Skylark 7	-	TEXUS 39	DLR TEXUS 39	-	-	-	ESR	S	-	-	248	-	-
2002-S20	2452349.90	2002 Mar 16 0937	Skylark 7	-	MASER 9	SSC MASER 9	-	-	-	ESR	S	-	-	260	-	-
2003-S16	2452737.85	2003 Apr 8 0820	Skylark 7	-	TEXUS 40	DLR TEXUS 40	-	-	-	ESR	S	-	-	246	-	-
2004-S68	2453341.94	2004 Dec 2 1030	Skylark 7	-	TEXUS 41	DLR TEXUS 41	-	-	-	ESR	S	-	-	227	-	-
2005-S18	2453492.71	2005 May 2 0500	Skylark 7	-	MASER 10	SSC MASER 10	-	-	-	ESR	S	-	-	252	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A11	2435882.58	1957 Feb 13 0151	Skylark	1	SL01	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1957-M08	2435980.72	1957 May 22 0520	Skylark	1	SL02	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1957-S64	2436042.63	1957 Jul 23 0302	Skylark	1	SL03	0.000	WRE/RAE	SS	-	QUB/Bates,Armstrong	Test/Airglow	WDCRF	BAE	-
1957-S169	2436155.99	1957 Nov 13 1152	Skylark	1	SL04	0.000	WRE/RAE	SS	-	UCL/ICST/BIR/Sheppard	Test/Aeronomy	WDCRF	SR1,144	-
1958-A27	2436295.36	1958 Apr 1 2032	Skylark	1	SL06	0.000	WRE/RAE	SS	-	RAE/UCL/	Test	JCM	BAE	-
1958-S55	2436310.96	1958 Apr 17 1057	Skylark	1	SL07	0.000	WRE/RAE	SS	-	UCL/ICST/BIR/Groves	Test/Aeronomy	IGY36	SR1,144	-
1958-S66	2436343.68	1958 May 20 0426	Skylark	2	SL05	0.000	WRE/RAE	SS	-	QUB/Bates,Armstrong	Test/Aeronomy	WDCRF	AASH9-163	-
1958-S81	2436359.98	1958 Jun 5 1130	Skylark	1	SL22	0.000	WRE/RAE	SF	U	WRE/RAE/	Test	WDCRF	BAE	-
1958-A55	2436372.94	1958 Jun 18 1035	Skylark	2	SL18	0.000	WRE/RAE	SF	U	UCL/ICST/BIR/Groves	Aeronomy	WDCRF	BAE	-
1958-S85	2436373.14	1958 Jun 18 1515	Skylark	2	SL09	0.000	WRE/RAE	SS	-	UCL/ICST/BIR/Groves	Aeronomy	IGY36	BAE	1545/SMH
1958-S86	2436466.39	1958 Sep 19 2115	Skylark	2	SL08	0.000	WRE/RAE	SS	-	UCL/ICST/BIR/Groves	Test/Aeronomy	WDCRF/Massey	BAE	-
1958-S277	2436540.93	1958 Dec 3 1013	Skylark	1	SL11	0.000	WRE/RAE	SS	-	QUB/Bates,Armstrong	Aeronomy	IGY36	SR1,144	-
1959-A43	2436631.97	1959 Mar 4 1114	Skylark	2	SL21	0.000	WRE/RAE	SF	U	UCL/ICST/QUB/	Aeronomy	WDCRF	BAE	-
1959-A102	2436748.50	1959 Jun 29	Rook	-	-	0.000	RAE	AF	U	RAE/	Test	Serra	-	-
1959-M21	2436750.50	1959 Jul 1 0005	Skylark	2	SL19	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1959-A114	2436756.50	1959 Jul 7	Rook	-	-	0.000	RAE	AF	U	RAE/	Test	Serra	-	-
1959-S105	2436757.51	1959 Jul 8 0013	Skylark	2	SL14	0.000	WRE/RAE	SS	-	UCL/Pounds	Ionos/Solar X	IGY36	BAE	-
1959-S122	2436772.56	1959 Jul 23 0126	Skylark	1	SL24	0.000	WRE/RAE	SF	U	WRE/RAE/	Test	WDCRF	BAE	-
1959-S144	2436799.51	1959 Aug 19 0020	Skylark	2	SL17	0.000	WRE/RAE	SS	-	UCL/	Iono	IGY36	BAE	-
1959-S174	2436828.51	1959 Sep 17 0012	Skylark	2	SL12	0.000	WRE/RAE	SS	-	BIR/UCL/Pounds	Ionos/Solar X/Solar UV	IGY36	BAE	-
1959-S185	2436835.52	1959 Sep 24 0029	Skylark	2	SL15	0.000	WRE/RAE	SS	-	BIR/UCL/	Ionos	IGY36	BAE	-
1959-A178	2436863.50	1959 Oct 22	Leopard	-	L2B	0.000	RAE	AF	U	RAE/	Test	Serra	-	-
1959-S257	2436902.93	1959 Nov 30 1016	Skylark	2	SL16	0.000	WRE/RAE	SS	-	QUB/	Aeronomy	IGY36	BAE	-
1959-S258	2436903.02	1959 Nov 30 1235	Skylark	2	SL60	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	IGY36	BAE	1015/CanbTimes
1959-S261	2436903.98	1959 Dec 1 1136	Skylark	2	SL38	0.000	WRE/RAE	SS	-	UCL/ICST/BIR/	Aeronomy	IGY36	BAE	-
1960-A12	2436935.50	1960 Jan 2	Leopard	-	L1B	0.000	RAE	AF	U	-	Test	Serra	-	-
1960-A13	2436940.50	1960 Jan 7	Leopard	-	L1C	0.000	RAE	AF	U	-	Test	Serra	-	-
1960-A53	2436987.50	1960 Feb 23	Leopard	-	L1D	0.000	RAE	AS	-	-	Test	Serra	-	-
1960-S74	2437036.64	1960 Apr 12 0318	Skylark	2C	SL51	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1960-S79	2437045.94	1960 Apr 21 1035	Skylark	2	SL62	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	BAE	-
1960-A326	2437045.50	1960 Apr 21	Blue Water	-	FJ 3	0.000	RAE	AS	-	-	Test	AASH30-239	-	-
1960-A327	2437050.50	1960 Apr 26	Blue Water	-	-	0.000	RAE	AS	-	-	Test	AASH30-239	-	-
1960-A105	2437053.50	1960 Apr 29	Leopard	-	L1E	0.000	RAE	AS	-	-	Test	Serra	-	-
1960-A106	2437053.50	1960 Apr 29	Leopard	-	L1F	0.000	RAE	AS	-	-	Test	Serra	-	-
1960-A113	2437059.50	1960 May 5	Leopard	-	L1G	0.000	RAE	AS	-	-	Test	Serra	-	-
1960-A129	2437081.50	1960 May 27	Leopard	-	L3	0.000	RAE	AU	-	-	Test	Serra	-	-
1960-S132	2437102.00	1960 Jun 16 1204	Skylark	2	SL10	0.000	WRE/RAE	SS	-	QUB/Bates,Armstrong	Aeronomy	WDCRF	BAE	-
1960-A165	2437127.50	1960 Jul 12	Leopard	-	L4	0.000	RAE	AU	-	-	Test	Serra	-	-
1960-A168	2437129.50	1960 Jul 14	Rook	-	R1H	0.000	RAE	AU	-	-	Test	Serra	-	-
1960-S232	2437156.94	1960 Aug 10 1035	Skylark	2	SL61	0.000	WRE/RAE	SS	-	UCL/ICST/Groves	Test	WDCRF	BAE	-
1960-A203	2437163.50	1960 Aug 17	Jaguar 1	-	G1	0.000	RAE	AS	-	-	Test	Serra	AASH32-377	-
1960-S254	2437172.96	1960 Aug 26 1100	Skylark	2	SL13	0.000	WRE/RAE	SS	-	QUB/Bates,Armstrong	Aeron	WDCRF	BAE	-
1960-A01	2437220.50	1960 Oct 13	Rook	-	R1J	0.000	RAE	AS	-	-	Test	AASH32-379	Serra	-
1960-S364	2437254.96	1960 Nov 16 1102	Skylark	2	SL33	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1960-A266	2437255.50	1960 Nov 17	Rook	-	R1I	0.000	RAE	AS	-	-	Test	Serra	-	-
1960-S371	2437255.94	1960 Nov 17 1040	Skylark	2C	SL67	0.000	WRE/RAE	SS	-	UCL/ICST/QUB/	Aeronomy	WDCRF	BAE	-
1960-S379	2437262.50	1960 Nov 23 2355	Skylark	2	SL49	0.000	WRE/RAE	SS	-	RAE/UCW/LUX/	Ionos/Solar X	WDCRF	BAE	-
1960-A294	2437275.51	1960 Dec 7 0020	Skylark	2	SL50	0.000	WRE/RAE	SF	U	RAE/UCW/LUX/	Ionos/Solar X	WDCRF	BAE	-
1960-A300	2437283.50	1960 Dec 15	Jaguar 1	-	J1	0.000	RAE	AS	-	-	Test	Serra	-	-
1961-S44	2437344.08	1961 Feb 13 1358	Skylark	2	SL36	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	BAE	-
1961-S72	2437364.91	1961 Mar 6 0956	Skylark	2C	SL63	0.000	WRE/RAE	SS	-	UCL/ICST/QUB/	Aeronomy	WDCRF	BAE	-
1961-S103	2437394.96	1961 Apr 5 1056	Skylark	2	SL64	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	BAE	-
1961-A107	2437410.50	1961 Apr 21	Jaguar 1	-	J2	0.000	RAE	AS	-	-	Test	JBIS45-139	AASH32-377	-
1961-A110	2437415.50	1961 Apr 26	Rook	-	R1K	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1961-S132	2437421.01	1961 May 1 1210	Skylark	2	SL43	0.000	WRE/RAE	SS	-	UCL/Alexander	UV Astron	WDCRF	SR3,1068	-
1961-S164	2437449.72	1961 May 30 0515	Skylark	2	SL25	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1961-S169	2437457.53	1961 Jun 7 0040	Skylark	2	SL26	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1961-M18	2437484.93	1961 Jul 4 1023	Skylark	2	SL65	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	BAE	-
1961-A170	2437500.50	1961 Jul 20	Leopard	-	L5	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1961-A172	2437506.50	1961 Jul 26	Jaguar 1	-	J3	0.000	RAE	AF	U	-	Test	JBIS45-139	AASH32-377	-
1961-S227	2437512.96	1961 Aug 1 1102	Skylark	2	SL34	0.000	WRE/RAE	SS	-	UCL/	UV Astron	WDCRF	BAE	-
1961-A190	2437535.50	1961 Aug 24	Rook	-	Ra23	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1961-A191	2437535.50	1961 Aug 24	Rook	-	-	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1961-S292	2437561.01	1961 Sep 18 1215	Skylark	2C	NASA 9.01GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	WDCRF	BAE	-
1961-S300	2437569.52	1961 Sep 27 0025	Skylark	2	SL40	0.000	WRE/RAE	SS	-	UCL/LUX/ICST/	Ionos/Solar X	WDCRF	BAE	-
1961-S320	2437576.97	1961 Oct 4 1119	Skylark	2C	NASA 9.02GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	TN-D-1719	BAE	-
1961-S347	2437596.52	1961 Oct 24 0023	Skylark	2	SL37	0.000	WRE/RAE	SS	-	UCL/LUX/JBO/	Solar X/Aeron/Meteorites	WDCRF	BAE	-
1961-A230	2437603.50	1961 Nov	Jaguar 1	-	J4	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1961-S365	2437605.25	1961 Nov 1 1756	Skylark	2C	NASA 9.03GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	TN-D-1719	BAE	-
1961-S371	2437611.88	1961 Nov 8 0900	Skylark	2	SL35	0.000	WRE/RAE	SS	-	UCL/MO/JBO/	Aeronomy/Iono	WDCRF	BAE	-
1961-S384	2437624.25	1961 Nov 20 1804	Skylark	2C	NASA 9.04GG	0.000	GSFC	SS	-	GSFC/Boggess	UV Astron	TN-D-1719	BAE	-
1961-A239	2437624.50	1961 Nov 21	Skylark	5C	SL83	0.000	WRE/RAE	SF	U	UCL/LUX/RAE/	Ionos/Solar X	BAE	BAE	-
1961-S407	2437639.48	1961 Dec 5 2326	Skylark	2C	SL42	0.000	WRE/RAE	SS	-	BIR/UCL/LUX/Sayers,Wrenn	Ionos/Solar X	WDCRF	PlanSpaSci9,765	-
1962-A10	2437683.50	1962 Jan 19	Rook	-	Ra26	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1962-S33	2437701.37	1962 Feb 5 2058	Skylark	5C	SL35B	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	AASH9-163	-
1962-S60	2437728.91	1962 Mar 5 0955	Skylark	2	SL66	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1962-S62	2437730.02	1962 Mar 6 1235	Skylark	2	SL160	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1962-S71	2437742.96	1962 Mar 19 1104	Skylark	2	SL161	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	Massey	SR3,155	-
1962-A45	2437758.50	1962 Apr 4	Jaguar 1	-	J5	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1962-S89	2437760.16	1962 Apr 5 1547	Skylark	2	SL163	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1962-A48	2437765.26	1962 Apr 10 1820	Skylark	2	SL162	0.000	WRE/RAE	SF	U	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1962-S170	2437821.62	1962 Jun 6 0300	Skylark	5C	SL35C	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1962-A243	2437822.50	1962 Jun 7	Blue Water	-	-	0.000	RAE	AS	-	-	Test	AASH30-239	-	-
1962-S195	2437835.72	1962 Jun 20 0520	Skylark	5C	SL45	0.000	WRE/RAE	SS	-	UCL/LUX/	Aeron/Solar X	WDCRF	BAE	-
1962-A99	2437841.50	1962 Jun 26	Jaguar 1	-	J6	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1962-S225	2437850.66	1962 Jul 5 0346	Skylark	5	SL164	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S295	2437891.14	1962 Aug 14 1520	Skylark	2	SL109	0.000	WRE/RAE	SS	-	RSRS/SHEF/UCL/Hall	Ionos	WDCRF	BAE	-
1962-A125	2437900.50	1962 Aug 24	Jaguar 1	-	J7	0.000	RAE	AS	-	-	Test	AASH32-377	JBIS45-139	-
1962-S316	2437905.54	1962 Aug 29 0101	Skylark	2	SL28	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1962-A153	2437907.50	1962 Sep	Rook	-	Bo1	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1962-S330	2437919.06	1962 Sep 11 1330	Skylark	2C	SL44	0.000	WRE/RAE	SS	-	UCL/	Iono	WDCRF	BAE	-
1962-S341	2437927.68	1962 Sep 20 0421	Skylark	2	SL108	0.000	WRE/RAE	SS	-	RSRS/SHEF/Hall	Ionos	WDCRF	BAE	-
1962-S392	2437953.18	1962 Oct 15 1617	Skylark	2	SL82	0.000	WRE/RAE	SS	-	CAM/UCL/	Ionos	WDCRF	BAE	-
1962-S475	2437981.92	1962 Nov 13 1010	Skylark	7C	SL114	0.000	WRE/RAE	SS	-	UCL/LUX/JBO/UK-MO	Solar X/Aeron/Meteorites	WDCRF	BAE	-
1962-S487	2437990.55	1962 Nov 22 0111	Skylark	7	SL27	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1962-S499	2437996.93	1962 Nov 28 1017	Skylark	7C	SL165	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1962-A207	2437998.50	1962 Nov 30	Leopard	-	L6	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1962-S528	2438002.83	1962 Dec 4 0756	Skylark	5	SL166	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR3,155	-
1963-S77	2438089.56	1963 Mar 1 0120	Skylark	7C	SL84	0.000	WRE/RAE	SS	-	LUX/UCL/BIR/UCW,Sayers	Ionos/Solar X/Bir-5	WDCRF	BAE	-
1963-S87	2438099.69	1963 Mar 11 0430	Skylark	7C	SL85	0.000	WRE/RAE	SS	-	LUX/UCL/BIR/UCW,Sayers	Iono/Solar X/UCW-5/Bir-6	WDCRF	BAE	-
1963-A45	2438115.50	1963 Mar 27	Jaguar 1	-	J8	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1963-S158	2438136.89	1963 Apr 17 0923	Skylark	7C	SL167	0.000	WRE/RAE	SS	-	UCL/QUB/	Aeronomy	WDCRF	BAE	-
1963-S231	2438172.87	1963 May 23 0846	Skylark	7C	SL115	0.000	WRE/RAE	SS	-	LUX/UKMO/JBO/	Solar X/Aeronomy	WDCRF	BAE	-
1963-S244	2438178.69	1963 May 29 0435	Skylark	7C	SL127	0.000	WRE/RAE	SS	-	LUX/UCL/RSRS/Hall	Ionos/Solar X	WDCRF	BAE	-
1963-S279	2438198.69	1963 Jun 18 0430	Skylark	7C	SL126	0.000	WRE/RAE	SS	-	LUX/UCL/RSRS/Hall	Ionos/Solar X	WRCRF/Massey	BAE	-
1963-S288	2438200.72	1963 Jun 20 0520	Skylark	7C	SL46	0.000	WRE/RAE	SS	-	LUX/UCL/	Ionos/Solar X/Solar UV	WDCRF	BAE	-
1963-A113	2438235.71	1963 Jul 25 0459	Skylark	7	SL29	0.000	WRE/RAE	SF	U	WRE/RAE/	Test	WDCRF	BAE	-
1963-A116	2438243.60	1963 Aug 2 0230	Skylark	5C	SL86	0.000	WRE/RAE	SF	U	RAE/WRE/	Test	WDCRF	BAE	-
1963-S431	2438277.65	1963 Sep 5 0341	Skylark	5C	SL87	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1963-S475	2438305.13	1963 Oct 2 1510	Skylark	7	SL81A	0.000	WRE/RAE	SS	-	CAM/UCL/	Ionos	WDCRF	BAE	-
1963-S490	2438317.91	1963 Oct 15 0951	Skylark	7C	SL171	0.000	WRE/RAE	SS	-	UCL/QUB/	Aeronomy	WDCRF	SR5,1012	-
1963-S491	2438317.99	1963 Oct 15 1148	Skylark	7	SL169	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	WDCRF	SR5,1012	-
1963-S492	2438318.13	1963 Oct 15 1509	Skylark	7	SL170	0.000	WRE/RAE	SS	-	UCL/ICST/	Aeronomy	Massey	SR5,1012	-
1963-S494	2438318.31	1963 Oct 15 1922	Skylark	7C	SL168	0.000	WRE/RAE	SS	-	UCL/QUB/	Aeronomy	Massey	SR5,1012	-
1963-S525	2438333.10	1963 Oct 30 1426	Skylark	7C	SL134	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1963-A174	2438352.50	1963 Nov 19 0005	Skylark	7C	SL103	0.000	WRE/RAE	SF	U	LUX/BIR/UCW/UCL	Iono/Solar X/UCW-6/Bir-7	WDCRF	BAE	-
1963-S579	2438365.68	1963 Dec 2 0415	Skylark	7C	SL135	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1963-S582	2438366.71	1963 Dec 3 0459	Skylark	7C	SL104	0.000	WRE/RAE	SF	U	LUX/BIR/UCW/UCL	Iono/Solar X/UCW-7/Bir-8	WDCRF	BAE	-
1964-S75	2438429.55	1964 Feb 4 0105	Skylark	5C	SL88	0.000	WRE/RAE	SS	-	RAE/WRE/	Aeron	WDCRF	BAE	-
1964-A22	2438437.50	1964 Feb 12	Jaguar 1	-	J9	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1964-S111	2438445.62	1964 Feb 20 0300	Skylark	7	SL30	0.000	WRE/RAE	SF	U	WRE/RAE/	Test	WDCRF	BAE	-
1964-S137	2438464.59	1964 Mar 10 0206	Skylark	7C	SL129	0.000	WRE/RAE	SS	-	SOTON/LUX/ICST/UCL IC-2	Gamma Astron/Solar X	TM-X-54957	BAE	-
1964-S143	2438466.59	1964 Mar 12 0207	Skylark	7C	SL128	0.000	WRE/RAE	SS	-	SOTON/LUX/ICST/UCL IC-3	Gamma Astron/Solar X	TM-X-54957	BAE	-
1964-S201	2438496.89	1964 Apr 11 0919	Skylark	7C	SL136	0.000	WRE/RAE	SS	-	UKMO/	Aeronomy	WDCRF	BAE	-
1964-S244	2438529.69	1964 May 14 0431	Skylark	7C	SL20	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1964-S326	2438583.31	1964 Jul 6 1923	Skylark	7C	ESRO S01/1	0.000	ESRO	SS	-	MPE/LIEGE/Lust,Haerendel	Aeronomy	WDCRF	PlanSSci15,357	-
1964-S334	2438585.31	1964 Jul 8 1922	Skylark	7C	ESRO S01/2	0.000	ESRO	SS	-	MPE/LIEGE/Lust,Haerendel	Aeronomy	WDCRF	PlanSSci15,357	-
1964-S347	2438591.53	1964 Jul 15 0047	Skylark	7	SL31	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1964-S366	2438593.69	1964 Jul 17 0435	Skylark	7	SL32	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	JCM	BAE	-
1964-S418	2438618.74	1964 Aug 11 0540	Skylark	7C	SL301	0.000	WRE/RAE	SS	-	LUX/CULH/Pounds	Solar X,UV	WDCRF	Nature205,684	-
1964-S438	2438627.73	1964 Aug 20 0536	Skylark	7C	SL121	0.000	WRE/RAE	SS	-	LUX/UCW/	Ionos/Solar X	WDCRF	BAE	-
1964-S456	2438639.89	1964 Sep 1 0919	Skylark	7C	SL137	0.000	WRE/RAE	SS	-	UKMO/	Aeronomy	WDCRF	BAE	-
1964-S458	2438642.56	1964 Sep 4 0120	Skylark	5C	SL87A	0.000	WRE/RAE	SF	U	RAE/WRE/	Test	WDCRF	BAE	-
1964-S471	2438655.73	1964 Sep 17 0526	Skylark	7C	SL120	0.000	WRE/RAE	SS	-	LUX/UCW/	Ionos/Solar X	Massey	BAE	-
1964-S481	2438662.70	1964 Sep 24 0442	Skylark	7C	SL133	0.000	WRE/RAE	SS	-	RSRS/LUX/	Ionos/Solar X	WDCRF	BAE	-
1964-S493	2438667.69	1964 Sep 29 0431	Skylark	7C	SL132	0.000	WRE/RAE	SS	-	RSRS/LUX/	Ionos/Solar X	WDCRF	BAE	-
1964-A146	2438670.50	1964 Oct 2	Jabiru 2	-	J201	0.000	RAE	AF	U	-	Test	JBIS45-139	AASH32-377	-
1964-S540	2438695.95	1964 Oct 27 1050	Skylark	7C	SL47	0.000	WRE/RAE	SS	-	LUX/UCL/	UV/XR Astronomy	WDCRF	BAE	-
1964-A183	2438739.50	1964 Dec 10	Rook	-	Ra28	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1964-S684	2438745.58	1964 Dec 16 0202	Skylark 3	-	SL88A	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1964-S688	2438746.63	1964 Dec 17 0305	Skylark	7C	SL302	0.000	WRE/RAE	SS	-	LUX/CULH/Pounds	Solar X,UV	WDCRF	SR6,38	0335/SoPh8.53
1965-S128	2438822.70	1965 Mar 3 0442	Skylark 3	-	SL87B	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1965-A47	2438837.26	1965 Mar 17 1808	Skylark	7C	SL140	0.000	WRE/RAE	SF	U	ROE/SHEF/UCL/	UV Astronomy	WDCRF	BAE	-
1965-S190	2438844.50	1965 Mar 25 0006	Skylark	7C	SL141	0.000	WRE/RAE	SS	-	ROE/SHEF/UCL/	UV Astronomy/Ionos	SR-VII-407	BAE	-
1965-A54	2438851.11	1965 Mar 31 1434	Skylark	7	S03/1	0.000	ESRO	SF	U	UCL/BREI/Rawer,Jacobs	Ionospheric	WDCRF	BAE	-
1965-S213	2438854.04	1965 Apr 3 1254	Skylark	7	S03/2	0.000	ESRO	SS	-	UCL/BREI/Rawer,Jacobs	Ionospheric	WDCRF	BAE	-
1965-S221	2438859.54	1965 Apr 9 0101	Skylark	7C	SL303	0.000	WRE/RAE	SS	-	LUX/CULH/Pounds	Solar X,UV	WDCRF	BAE	-
1965-S259	2438879.88	1965 Apr 29 0903	Skylark	7C	SL464	0.000	WRE/RAE	SF	U	UCL/ICST/QUB/	Aeronomy	Massey/WDCRF	-	-
1965-S260	2438879.96	1965 Apr 29 1109	Skylark	7	SL363	0.000	WRE/RAE	SS	-	UCL/Groves	Aeronomy	SR-VII-977	BAE	-
1965-S261	2438880.02	1965 Apr 29 1225	Skylark	7	SL364	0.000	WRE/RAE	SS	-	UCL/Groves	Aeronomy	SR-VII-977	BAE	-
1965-S262	2438880.08	1965 Apr 29 1356	Skylark	7	SL461	0.000	WRE/RAE	SS	-	UCL/Groves	Aeronomy	SR-VII-977	BAE	-
1965-S263	2438880.18	1965 Apr 29 1619	Skylark	7	SL462	0.000	WRE/RAE	SS	-	UCL/Groves	Aeronomy	SR-VII-977	Massey	-
1965-S265	2438880.25	1965 Apr 29 1756	Skylark	7	SL463	0.000	WRE/RAE	SS	-	UCL/Groves	Aeronomy	SR-VII-977	WDCRF	-
1965-S266	2438880.36	1965 Apr 29 2040	Skylark	7C	SL362	0.000	WRE/RAE	SS	-	UCL/	Aeronomy	Massey/WDCRF	-	-
1965-S287	2438892.36	1965 May 11 2040	Skylark	7C	SL361	0.000	WRE/RAE	SS	-	QUB/UCL/	Aeronomy	WDCRF	BAE	-
1965-A67	2438892.50	1965 May 12	Rook IIIA	-	Ly4	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1965-S290	2438894.17	1965 May 13 1605	Skylark	7C	SL139	0.000	WRE/RAE	SS	-	RSRS/Hall	Ionos	WDCRF	BAE	-
1965-S298	2438899.73	1965 May 19 0525	Skylark	7C	SL138	0.000	WRE/RAE	SS	-	LUX/RSRS/Hall	Ionos/Solar X	WDCRF	BAE	-
1965-S415	2438942.57	1965 Jul 1 0145	Skylark	7C	SL106	0.000	WRE/RAE	SS	-	LUX/UCL/	Ionos/Solar X	WDCRF	BAE	-
1965-S423	2438955.96	1965 Jul 14 1108	Skylark	7C	SL48	0.000	WRE/RAE	SS	-	UCL/	UV Astronomy	WDCRF	BAE	-
1965-A109	2438964.50	1965 Jul 23	Rook	-	Ra30	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1965-A115	2438970.55	1965 Jul 29 0115	Skylark	7C	SL105	0.000	WRE/RAE	SF	U	LUX/UCL/	Ionos/Solar X	WDCRF	BAE	-
1965-S462	2438983.47	1965 Aug 10 2313	Skylark	7C	ESRO S05/1	0.000	ESRO	SS	-	ROE/	UV Astronomy	ESRO-SP-67	BAE	-
1965-A125	2438997.50	1965 Aug 25	Jabiru 2	-	J202	0.000	RAE	AF	U	-	Test	JBIS45-139	-	-
1966-S746	2439347.50	1966 Aug 10	Jabiru 2	-	J203?	0.000	RAE	AS	-	-	Test	JBIS45-139	AASH32-377	-
1965-S491	2439012.68	1965 Sep 9 0420	Skylark 3	-	SL88B	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1965-S530	2439033.68	1965 Sep 30 0420	Skylark	7C	ESRO S04/1 (SE08)	0.000	ESRO	SS	-	UCL/MPE/Groves?	Aeronomy grenades	ESRO-SP-67	WDRCF	-
1965-S537	2439035.68	1965 Oct 2 0422	Skylark	7C	ESRO S04/2 (SE09)	0.000	ESRO	SS	-	UCL/MPE/Groves?	Aeronomy grenades	ESRO-SP-67	SR-VII-1019	-
1965-S558	2439051.97	1965 Oct 18 1123	Skylark	7C	SL39	0.000	WRE/RAE	SS	-	QUB/UCL/	Aeronomy	WDCRF	BAE	-
1965-S563	2439053.72	1965 Oct 20 0520	Skylark 3 AC	-	SL306	0.000	WRE/RAE	SS	-	LUX/CULH/Pounds	Solar X,UV	WDCRF	BAE	-
1965-S631	2439083.70	1965 Nov 19 0454	Skylark	7C	SL130	0.000	WRE/RAE	SS	-	LUX/UCL/ICST/QUB	Iono/Solar X/UCL I-24/IC	WDCRF	BAE	-
1965-S678	2439107.92	1965 Dec 13 1008	Skylark	7C	SL131	0.000	WRE/RAE	SS	-	LUX/UCL/ICST/QUB	Iono/Solar X/UCL I-25/IC	WDCRF	BAE	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S93	2439158.52	1966 Feb 2 0026	Skylark 3 AC	-	SL307	0.000	WRE/RAE	SS	-	LUX/CULH/Pounds	Solar X,UV	SoPh8,53	BAE	-
1966-S169	2439201.49	1966 Mar 16 2350	Skylark 3	-	SL581	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1966-S223	2439235.60	1966 Apr 20 0230	Skylark 2	-	SL582	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1966-S229	2439236.50	1966 Apr 21 0006	Skylark 2	-	SL583	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1966-S256	2439250.68	1966 May 5 0414	Skylark 3 AC	-	SL304	0.000	WRE/RAE	SS	-	LUX/UCL/RAE/Pounds,Glen.	Solar X,UV	WDCRF	Nature220,48	-
1966-S295	2439277.30	1966 May 31 1919	Skylark	7C	SL422	0.000	WRE/RAE	SS	-	SHEF/MSSL/Kaiser	Ionospheric	WDCRF	BAE	-
1966-S298	2439278.86	1966 Jun 2 0834	Skylark	7C	SL327	0.000	WRE/RAE	SS	-	UKMO/UCW/Stewart,Will.	Aeronomy/Solar UV	WDCRF	BAE	-
1966-S304	2439285.86	1966 Jun 9 0833	Skylark	7C	SL328	0.000	WRE/RAE	SS	-	UKMO/UCW/Stewart,Will.	Aeronomy/Solar UV	WDCRF	BAE	-
1966-S322	2439293.31	1966 Jun 16 1929	Skylark	7C	ESRO S17/1	0.000	ESRO	SS	-	MPE/Haerendel	Aeronomy/Ba	ESRO-SP77	ESRO66	-
1966-S326	2439294.61	1966 Jun 18 0241:30	Skylark	7C	ESRO S17/2	0.000	ESRO	SS	-	MPE/Haerendel	Aeronomy/Ba	ESRO-SP77	ESRO66	-
1966-S327	2439297.32	1966 Jun 20 1939:00	Skylark	7C	ISRC-SK-7	0.000	ESRO	SS	-	MPE/UKMO/Lust,Frith	Aeronomy/Ba/Ozone	ESRO-SP77	ESRO-SN66	-
1966-S332	2439299.57	1966 Jun 23 0138	Skylark	7C	SL421	0.000	WRE/RAE	SS	-	SHEF/MSSL/	Ionospheric	WDCRF	BAE	-
1966-S346	2439304.62	1966 Jun 28 0253:30	Skylark	7C	ISRC-SK-8	0.000	ESRO	SS	-	MPE/UKMO/Frith,Lust	Aeronomy/Ba/Ozone	ESRO-SP77	ESRO-SN66	-
1966-S361	2439315.32	1966 Jul 8 1947:00	Skylark	7C	ISRC-SK-18	0.000	ESRO	SS	-	LIEGE/Rosen	Ionospheric	ESRO-SP77	BAE	-
1966-S369	2439320.32	1966 Jul 13 1944:15	Skylark	7C	ESRO S18/2	0.000	ESRO	SS	-	LIEGE/Rosen	Ionospheric	ESRO-SP77	BAE	-
1966-S400	2439334.54	1966 Jul 28 0051	Skylark 3	-	SL88C	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1966-S559	2439423.88	1966 Oct 25 0906	Skylark	7C	SL321	0.000	WRE/RAE	SS	-	BIR/Wilson	Ionospheric	WDCRF	BAE	-
1966-S560	2439423.97	1966 Oct 25 1111	Skylark 1	-	SL322	0.000	WRE/RAE	SS	-	BIR/	Ionospheric	WDCRF	BAE	-
1966-S567	2439425.87	1966 Oct 27 0847	Skylark	7C	SL325	0.000	WRE/RAE	SS	-	BIR/Wilson	Ionospheric	WDCRF	BAE	-
1966-S568	2439425.93	1966 Oct 27 1025	Skylark 2	-	SL323	0.000	WRE/RAE	SS	-	BIR/Wilson	Ionospheric	WDCRF	BAE	-
1966-S569	2439426.07	1966 Oct 27 1335	Skylark	7C	SL324	0.000	WRE/RAE	SS	-	BIR/Wilson	Ionospheric	WDCRF	BAE	-
1966-A131	2439439.50	1966 Nov 10	Jabiru 2	-	J204	0.000	RAE	AS	-	-	Test	AASH32-377	JBIS45-139	-
1966-S632	2439447.55	1966 Nov 18 0105	Skylark 3 AC	-	SL481	0.000	WRE/RAE	SF	U	RAE/WRE/	Test	WDCRF	BAE	-
1966-A144	2439456.30	1966 Nov 26 1911:00	Skylark 3	-	ISRC-SK-16	0.000	ESRO	SF	R1	ROE/BOL/Butler,Brini	UV Astron/XR Astron	ESRO-SP77	BAE	-
1966-A148	2439468.12	1966 Dec 8 1457	Skylark 3 AC	-	SL405	0.000	WRE/RAE	SF	R1	LUX/CULH/Wilson,Pounds	Solar X,UV	WDCRF	BAE	-
1966-S684	2439473.77	1966 Dec 14 0633	Skylark	7C	SL581A	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1967-S155	2439563.75	1967 Mar 14 0600	Skylark 3 AC	-	SL406	0.000	WRE/RAE	SS	-	LUX/CULH/Wilson,Pounds	Solar X,UV	WDCRF	BAE	-
1967-S192	2439584.52	1967 Apr 4 0032	Skylark 3	-	SL426	0.000	WRE/RAE	SS	-	ADEL/UCW/Harries	XR Astron/Ionos	Nature215,38	Nature215,38	-
1967-S202	2439590.95	1967 Apr 10 1051	Skylark	7C	SL118	0.000	WRE/RAE	SS	-	LUX/QUB/Pounds,Cooke	XR Astronomy	WDCRF	ApJ150,L189	-
1967-S210	2439593.02	1967 Apr 12 1232	Skylark	7C	SL119	0.000	WRE/RAE	SS	-	LUX/QUB/Pounds,Byrne	XR Astronomy	WDCRF	BAE	-
1967-S227	2439601.44	1967 Apr 20 2236	Skylark 3	-	SL425	0.000	WRE/RAE	SS	-	ADEL/UCW/Harries	XR Astron/Ionos	Nature215,38	Nature215,38	-
1967-S235	2439607.69	1967 Apr 27 0431	Skylark 3 AC	-	SL682	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1967-A74	2439610.50	1967 May	Rook	-	-	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1967-S269	2439632.51	1967 May 22 0011:57	Skylark 3	-	ISRC-SK-17	0.000	ESRO	SS	-	ROE/BOL/Butler,Brini	UV Astron/XR Astron	ESRO-SP78	BAE	-
1967-S272	2439636.48	1967 May 25 2324:00	Skylark 3	-	ISRC-SK-19	0.000	ESRO	SS	-	ROE/Butler	UV Astronomy	WDCRF	BAE	-
1967-A95	2439682.50	1967 Jul 11	Rook IIIA	-	Ly6	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1967-S375	2439710.66	1967 Aug 8 0356	Skylark 3 AC	-	SL305	0.000	WRE/RAE	SS	-	MSSL/LUX/Pounds,Glencros	Solar X,UV	ProcRSocA317,101	SoPh13,389	-
1967-S388	2439718.77	1967 Aug 16 0636	Skylark	7C	SL581B	0.000	WRE/RAE	SS	-	RAE/WRE/	Test	WDCRF	BAE	-
1967-A101	2439726.50	1967 Aug 24	Rook IIIA	-	Ob1	0.000	RAE	AS	-	-	Test	AASH32-377	JBIS45-139	-
1967-S393	2439726.92	1967 Aug 24 1005	Skylark	7C	SL521	0.000	WRE/RAE	SS	-	OX/Ingham	UV Astronomy	WDCRF	MN145,401	-
1967-S405	2439731.92	1967 Aug 29 1001	Skylark	7C	SL522	0.000	WRE/RAE	SS	-	OX/Ingham	UV Astronomy	WDCRF	MN145,401	-
1967-A115	2439740.50	1967 Sep 7	Rook	-	Ra32	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1967-S455	2439761.02	1967 Sep 27 1232:00	Skylark	7C	ESRO S26/1	0.000	ESRO	SS	-	RSRS/BIR/Hall,Sayers	Ionos/Solar X	ESRO-SP78	BAE	-
1967-S473	2439768.06	1967 Oct 4 1323:18	Skylark	7C	ESRO S19/1	0.000	ESRO	SS	-	BONN/MSSL/LPA/Boyd	Ionos/Aeron	ESRO-SP78	SR9,512	-
1967-S478	2439771.12	1967 Oct 7 1450	Skylark	7C	ESRO S26/2	0.000	ESRO	SS	-	RSRS/BIR/Hall,Sayers	Ionos/Solar X	WDCRF	BAE	-
1967-S482	2439774.11	1967 Oct 10 1433:00	Skylark	7C	ESRO S19/2	0.000	ESRO	SS	-	BONN/MSSL/Boyd,Rawer	Ionos/Aeron	ESRO-SP78	SR9,512	-
1967-S518	2439795.69	1967 Nov 1 0430	Skylark 3 AC	-	SL407	0.000	WRE/RAE	SS	-	LUX/CULH/Wilson,Pounds	Solar X,UV	WDCRF	BAE	-
1967-S533	2439808.73	1967 Nov 14 0527	Skylark	7C	SL423	0.000	WRE/RAE	SS	-	ICST/RSRS/Hall	Ionospheric	WDCRF	BAE	-
1967-S539	2439811.50	1967 Nov 17	Skylark	7C	SL424	0.000	WRE/RAE	SS	-	ICST/RSRS/Hall	Ionospheric	Massey	BAE	-
1967-S557	2439825.76	1967 Dec 1 0608	Skylark	7C	SL422A	0.000	WRE/RAE	SS	-	ADEL/Francey	XR Astron	WDCRF	PASAu1,236	-
1967-A142	2439831.50	1967 Dec 7	Jabiru 2	-	J205	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1968-S126	2439894.75	1968 Feb 8 0601	Skylark 6	-	SL583A	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	JCM	BAE	-
1968-S194	2439935.71	1968 Mar 20 0457	Skylark 3	-	SL408	0.000	WRE/RAE	SS	-	LUX/CULH/Stewrt,Pounds	Solar X,UV	WDCRF	SoPh15,288	-
1968-S215	2439942.49	1968 Mar 26 2341:21	Skylark 1	-	S16/1	0.000	ESRO	SS	-	MSSL/ICST/Boyd,Hall	Auroral	ESRO68	BAE	-
1968-S354	2440007.87	1968 May 31 0849	Skylark	7C	SL762	0.000	WRE/RAE	SS	-	UCL/Rees	Aeronomy	WDCRF	BAE	-
1968-S355	2440008.36	1968 May 31 2039	Skylark	7C	SL761	0.000	WRE/RAE	SS	-	UCL/Rees	Aeronomy	WDCRF	BAE	-
1968-S376	2440019.94	1968 Jun 12 1030	Skylark	5C	SL723	0.000	WRE/RAE	SS	-	LUX/Pounds,Cooke	XR Astronomy	WDCRF	BAE	-
1968-S394	2440045.75	1968 Jul 8 0605	Skylark 3 AC	-	SL403	0.000	WRE/RAE	SS	-	LUX/Pounds	XR Astronomy	WDCRF	BAE	-
1968-A86	2440055.50	1968 Jul 18	Jabiru 2	-	J206	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1968-S411	2440061.57	1968 Jul 24 0141	Skylark	5C	SL523	0.000	WRE/RAE	SS	-	UCW/Benyon	Ionospheric	WDCRF	BAE	-
1968-S442	2440074.58	1968 Aug 6 0155	Skylark	5C	SL524	0.000	WRE/RAE	SS	-	UCW/Williams	Ionospheric	WDCRF	BAE	-
1968-S484	2440098.32	1968 Aug 29 1943	Skylark 3 AC	-	SL501	0.000	WRE/RAE	SS	-	MSSL/BIR/Timothy,Wager	Ionos/Solar X	WDCRF	JBIS23,725	-
1968-S522	2440137.40	1968 Oct 7 2139:48	Skylark 3	-	ESRO S47/1	0.000	ESRO	SS	-	ROE/Butler	UV Astronomy	ESRO-SP-79	BAE	-
1968-S529	2440138.71	1968 Oct 9 0458	Skylark 1	-	SL791R	0.000	WRE/RAE	SS	-	WRE/RAE/	Test	WDCRF	BAE	-
1968-A103	2440154.50	1968 Oct 25	Rook IIIA	-	Ob2	0.000	RAE	AS	-	-	Test	AASH32-377	JBIS45-139	-
1968-S607	2440182.97	1968 Nov 22 1116:12	Skylark 3 AC	-	ESRO S41/1	0.000	ESRO	SS	-	UTR/LUX/DeJager,Stw.	Solar X	ESRO-SP-79	BAE	-
1968-S609	2440185.53	1968 Nov 25 0041:50	Skylark 2	-	ESRO S43/1	0.000	ESRO	SS	-	BREI/LIEGE/BIR/Rawer	Auroral	ESRO-SP-79	BAE	-
1968-S618	2440194.36	1968 Dec 3 2038:49	Skylark 3	-	ESRO S27/1	0.000	ESRO	SS	-	ROE/Butler	UV Astronomy	ESRO-SP-79	BAE	-
1968-S629	2440194.73	1968 Dec 4 0535	Skylark 3 AC	-	SL601	0.000	WRE/RAE	SS	-	CULH/QUB/Burton,Bates	Solar UV	IAUS36,274	BAE	-
1968-S633	2440197.69	1968 Dec 7 0433	Skylark	7C	SL725	0.000	WRE/RAE	SS	-	MSSL/RSRS/BIR/Burrows	Ionospheric	WDCRF	BAE	-
1969-A26	2440242.70	1969 Jan 21 0449	Skylark 6	-	SL781	0.000	WRE/RAE	SF	R1	ADEL/McCracken	XR Astron	FDC/Ulrich	PASAu1,240	-
1969-S82	2440245.33	1969 Jan 23 2000	Skylark	7C	SL726	0.000	WRE/RAE	SS	-	MSSL/RSRS/BIR/Burrows	Ionospheric	WDCRF	BAE	-
1969-S194	2440296.36	1969 Mar 15 2045:15	Skylark 2	-	S43/2	0.000	ESRO	SS	-	BREI/LIEGE/BIR/Rawer	Auroral	ESRO-SP80	BAE	-
1969-A56	2440311.50	1969 Apr	Jabiru 2	-	J207	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1969-S247	2440312.93	1969 Apr 1 1024	Skylark	5C	SL724	0.000	BAC	SS	-	LUX/Cooke	XR Astronomy	NatPS229,144	BAE	-
1969-S251	2440314.52	1969 Apr 3 0035	Skylark 6 AC	-	SL502	0.000	BAC	SS	-	MSSL/BIR/Boyd	Ionos/Solar X	WDCRF	BAE	-
1969-S275	2440328.73	1969 Apr 17 0533	Skylark 3 AC	-	SL606	0.000	BAC	SS	-	CULH/MO/Wilson,Stewart	Solar UV,X	SoPh15,288	SoPh17,333	-
1969-S291	2440333.65	1969 Apr 22 0331	Skylark 3 AC	-	SL604	0.000	BAC	SS	-	CULH/Wilson,Jones	Solar UV	WDCRF	BAE	-
1969-A73	2440346.50	1969 May 5	Jabiru 2	-	J202-2	0.000	RAE	AF	U	-	Test	AASH32-377	JBIS45-139	-
1969-S325	2440355.61	1969 May 14 0244	Skylark 3 AC	-	SL404	0.000	BAC	SS	-	LUX/CULH/Russell,Shent	Solar UV,X	WDCRF	BAE/Massey	-
1969-A118	2440405.50	1969 Jul 3	Rook IIIA	-	Ly5	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1969-S392	2440408.29	1969 Jul 5 1900:45	Skylark	7C	S38/1	0.000	ESRO	SS	-	LIEGE/IASB/Bredohl	Ionospheric	ESRO-SP80	BAE	-
1969-S393	2440409.33	1969 Jul 6 1950:29	Skylark 3	-	S64/1	0.000	ESRO	SS	-	IASB/Ackerman	Aeronomy	ESRO-SP80	AnnalesGeo27,407	-
1969-S405	2440414.29	1969 Jul 11 1900:42	Skylark	7C	S38/2	0.000	ESRO	SS	-	LIEGE/IASB/Bredohl	Ionospheric	ESRO-SP80	BAE	-
1969-S406	2440416.32	1969 Jul 13 1941:00	Skylark 3	-	S64/2	0.000	ESRO	SS	-	IASB/Ackerman	Aeronomy	ESRO-SP80	AnnalesGeo27,407	-
1969-S407	2440417.50	1969 Jul 14 2353	Skylark	5C	SL722	0.000	BAC	SS	-	SHEF/UCW/Kaiser	Ionospheric	WDCRF	BAE	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A125	2440418.50	1969 Jul 16	Jabiru 2	-	J208	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1969-S412	2440419.44	1969 Jul 16 2233	Skylark 3	-	SL729	0.000	BAC	SS	-	MSSL/UCW/QUB/Wrenn,Byrne	Ionospheric UCW-17	WDCRF	BAE	-
1969-S422	2440427.67	1969 Jul 25 0410	Skylark	5C	SL721	0.000	BAC	SS	-	SHEF/UCW/Kaiser	Ionospheric	WDCRF	BAE	-
1969-S430	2440432.46	1969 Jul 29 2257	Skylark 3	-	SL730	0.000	BAC	SS	-	MSSL/UCW/QUB/Wrenn,Byrne	Ionospheric UCW-18	WDCRF	BAE	-
1969-S459	2440454.58	1969 Aug 21 0157	Skylark 3 AC	-	SL605	0.000	BAC	SS	-	LUX/Evans,Pounds	Solar X	WDCRF	BAE	-
1969-S534	2440500.44	1969 Oct 5 2228:10	Skylark 2	-	S29/1	0.000	ESRO	SS	-	QUB/RSRS/Byrne,Bryant	Auroral	ESRO69	BAE	-
1969-S547	2440510.30	1969 Oct 15 1916	Skylark 3	-	SL861	0.000	BAC	SS	-	UCL/Rees	Aeronomy/Ionos	PlanSpaSci21,1237	WDCRF	-
1969-A178	2440510.50	1969 Oct 16	Jabiru 2	-	J209	0.000	RAE	AS	-	-	Test	WDCRF	-	-
1969-S552	2440511.91	1969 Oct 17 0945	Skylark 3	-	SL862	0.000	BAC	SS	-	UCL/Rees	Aeronomy/Ionos	PlanSpaSci21,1237	WDCRF	-
1969-S554	2440512.44	1969 Oct 17 2226:40	Skylark 2	-	S29/2	0.000	ESRO	SS	-	QUB/RSRS/Byrne,Bryant	Auroral	ESRO69	BAE	-
1969-S564	2440514.81	1969 Oct 20 0728	Skylark 3 AC	-	SL586	0.000	BAC	SS	-	RAE/WRE/Barnes	Opt/UV Astron	JBIS24,393	BAE	-
1969-S568	2440516.76	1969 Oct 22 0610	Skylark 3	-	SL821	0.000	BAC	SS	-	MSSL/Boyd,Willmore	XR Astronomy	WDCRF	BAE	-
1969-S575	2440518.74	1969 Oct 24 0544:00	Skylark	7C	S68/1	0.000	ESRO	SS	-	BOL/ESTEC/Brini,Ped.	XR Astronomy/Tech	ESRO69	BAE	-
1969-S626	2440536.38	1969 Nov 10 2100:12	Skylark 2	-	S46/1	0.000	ESRO	SS	-	SHEF/BREI/Unger	Auroral	ESRO-SP80	BAE	-
1969-S628	2440543.60	1969 Nov 18 0217	Skylark 3 AC	-	SL602	0.000	BAC	SF	S2	MSSL/Willmore	XR Astronomy	WDCRF	BAE	-
1969-S632	2440545.54	1969 Nov 20 0100	Skylark 3 AC	-	SL801	0.000	BAC	SS	-	CULH/UKMO/Shenton	Solar UV,X	SoPh15,288	BAE	-
1969-A194	2440551.50	1969 Nov 26	Rook IIIA	-	Ob3	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1969-S637	2440552.48	1969 Nov 26 2332	Skylark 3 AC	-	SL603	0.000	BAC	SS	-	CULH/QUB/Shenton,Bates	Solar UV	WDCRF	JBIS24,13	-
1970-S81	2440611.10	1970 Jan 24 1427	Skylark 1	-	ESRO S56A/1	0.000	ESRO	SS	-	MPIK/RSRS/Zahringer,Hall	Ionos/Solar UV	WDCRF	BAE	-
1970-A20	2440622.50	1970 Feb 5	Rook IIIA	-	Ly8	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1970-S106	2440624.32	1970 Feb 6 1942	Skylark 2 AC	-	ESRO S44/1	0.000	ESRO	SS	-	MPE/Boldt,Hessberg	UV Astronomy	WDCRF	BAE	-
1970-S114	2440628.09	1970 Feb 10 1410	Skylark 3 AC	-	ESRO S72	0.000	BAC/ESRO	SF	S2	UCL/Boksenberg	UV Astronomy	WDCRF	BAE	-
1970-S120	2440632.18	1970 Feb 14 1615:40	Skylark 2	-	ESRO S66/2	0.000	ESRO	SS	-	UCL/MPE/Wrenn,Haerendel	Ionospheric	WDCRF/ESRLV	SR12,1369	-
1970-S143	2440642.30	1970 Feb 24 1909:59	Skylark 2	-	S70/1	0.000	ESRO	SS	-	DSRI/BIR/Ungstrup,Burr.	Ionospheric	WDCRF	BAE	-
1970-S153	2440643.19	1970 Feb 25 1633:03	Skylark 2	-	S61/1	0.000	ESRO	SS	-	UKMO/BONN/Miller,VonZ	Aeronomy	WDCRF/ESRLV	BAE	-
1970-S158	2440643.70	1970 Feb 26 0447	Skylark 2	-	S61/2	0.000	ESRO	SS	-	UKMO/BONN/Miller,VonZ	Aeronomy	WDCRF	BAE	-
1970-S242	2440657.42	1970 Mar 11 2201	Skylark 3	-	SL921	0.000	BAC	SS	-	MSSL/Cruise,Willmore	XR Astronomy	WDCRF	BAE	-
1970-S249	2440664.44	1970 Mar 18 2230	Skylark 3 AC	-	SL901	0.000	BAC	SS	-	LUX/Cooke	XR Astronomy	NatPS236,104	NatPS229,175	-
1970-S258	2440665.14	1970 Mar 19 1518	Skylark 3 AC	-	SL401	0.000	BAC	SS	-	ROE/Butler	UV Astronomy	WDCRF	BAE	-
1970-A37	2440667.59	1970 Mar 22 0208	Skylark 3	-	SN5/1	0.000	DFVLR	SF	S1	BONN/Offermann	Aeron	Moraba	BAE	-
1970-S262	2440670.42	1970 Mar 24 2200	Skylark 3 AC	-	SL802	0.000	BAC	SS	-	LUX/Adams,Janes	XR Astronomy	WDCRF	BAE	-
1970-A47	2440677.50	1970 Apr 1	Jabiru 2	-	J210	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1970-S278	2440678.57	1970 Apr 2 0146	Skylark 2	-	S66/1	0.000	ESRO	SS	-	UCL/MPE/Wrenn,Haerendel	Ionospheric	WDCRF	SR12,1369	-
1970-S284	2440681.30	1970 Apr 4 1912	Skylark 2	-	S28/1	0.000	ESRO	SS	-	MPE/QUB/Haerendel,Byrne	Aeronomy	WDCRF	BAE	-
1970-S285	2440683.64	1970 Apr 7 0320	Skylark 3 AC	-	SL803	0.000	BAC	SS	-	CULH/Wilson,Boland	Solar UV	WDCRF	AAp22,161	-
1970-S307	2440692.88	1970 Apr 16 0907:50	Skylark 3	-	SL728	0.000	BAC	SS	-	ADEL/UKMO/Harries	XR Astronomy/Aeron	ICRC5,3039	BAE	-
1970-A74	2440760.09	1970 Jun 22 1404	Skylark 2	-	S68/2	0.000	ESRO	SF	S1	BOL/ESTEC/Brini	XR Astronomy	WDCRF	BAE	-
1970-S416	2440771.33	1970 Jul 3 1951	Skylark 1	-	S63/2	0.000	ESRO	SS	-	MSSL/RSRS/Dorling	Ionospheric	WDCRF	BAE	-
1970-S421	2440776.32	1970 Jul 8 1945	Skylark 1	-	S63/1	0.000	ESRO	SS	-	MSSL/RSRS/Dorling	Ionospheric	WDCRF	BAE	-
1970-S425	2440777.52	1970 Jul 10 0030	Skylark	5C	SL727	0.000	BAC	SS	-	ADEL/MSSL/McCracken	XR Astronomy/Ionos RSRS	NaturePS234,149	BAE	-
1970-S430	2440781.70	1970 Jul 14 0452	Skylark 6	-	SL971	0.000	BAC	SS	-	MSSL/Willmore	XR Astronomy	WDCRF	BAE	-
1970-S434	2440783.10	1970 Jul 15 1429	Skylark 3 AC	-	SL811	0.000	BAC	SS	-	CULH/MSSL/Burton,Boks.	UV Astronomy	FDC/WDCRF	BAE	-
1970-S440	2440791.08	1970 Jul 23 1355	Skylark 1	-	ESRO S56A/2	0.000	ESRO	SS	-	RSRS/LUX/Hall	Ionos/Solar UV	WDCRF	BAE	-
1970-S441	2440791.64	1970 Jul 24 0326	Skylark 1	-	ESRO S65/1	0.000	ESRO	SS	-	BREI/RSRS/Kaiser,Ha.	Ionospheric	WDCRF	BAE	-
1970-S449	2440794.68	1970 Jul 27 0416	Skylark 1	-	ESRO S65/2	0.000	ESRO	SS	-	BREI/RSRS/Kaiser,Ha.	Ionospheric	WDCRF	BAE	-
1970-S560	2440867.85	1970 Oct 8 0820	Skylark 6	-	SL972	0.000	BAC	SS	-	LUX/Cooke	XR Astronomy	WDCRF	BAE	-
1970-S565	2440872.51	1970 Oct 13 0008:07	Skylark 3	-	SN5/2	0.000	DFVLR	SS	-	BONN/Offermann	Aeron	Moraba	SR12,665/JGR78,6690	-
1970-S567	2440873.86	1970 Oct 14 0845	Skylark 3	-	SL1021	0.000	BAC	SS	-	MSSL/Willmore,Cruise	XR Astronomy	WDCRF	BAE	-
1970-S569	2440875.52	1970 Oct 16 0030	Skylark 3 AC	-	ESRO S53	0.000	BAC/ESRO	SF	S2	UTR/BIR/Dikstra,Wils	Solar X	ESRO70	BAE	-
1970-S570	2440878.50	1970 Oct 19	Skylark 3 AC	-	ESRO S58	0.000	BAC/ESRO	SF	S2	CULH/	Solar UV?	Massey	BAE	-
1970-S583	2440887.36	1970 Oct 27 2034:22	Skylark 2	-	ESRO S67/1	0.000	ESRO	SS	-	RSRS/Bryant	Auroral	WDCRF/ESRLV	AnnalesGeo28,109	-
1970-S586	2440889.40	1970 Oct 29 2139:30	Skylark 2	-	ESRO S67/2	0.000	ESRO	SS	-	RSRS/Bryant	Auroral	PlanSpaSci21,165	AnnalesGeo28,109	-
1970-S601	2440901.70	1970 Nov 11 0455	Skylark 3 AC	-	SL905	0.000	BAC	SS	-	MSSL/Sanford,Newton	XR Astronomy	WDCRF	NatPS244,121	-
1970-S610	2440910.42	1970 Nov 19 2200	Skylark 3 AC	-	SL904	0.000	BAC	SS	-	LUX/Janes,Barnes	XR Astronomy	WDCRF	NatPS230,188	-
1970-S625	2440915.43	1970 Nov 24 2213	Skylark 3 AC	-	SL804	0.000	BAC	SS	-	LUX/Evans,Parkinson	Solar X	WDCRF	SSR13,740	-
1970-S634	2440926.97	1970 Dec 6 1113	Skylark 3	-	ESRO S69	0.000	ESRO	SS	-	LUX/Evans,Parkinson	Solar X	WDCRF	SSR13,740	-
1971-A08	2440965.98	1971 Jan 14 1138	Skylark 6	-	LT.1	0.000	BAC/DLR	SS	-	DLR/	Test	Moraba	SFLT13,145	-
1971-S101	2440980.27	1971 Jan 28 1833:46	Skylark 2	-	S46/2	0.000	ESRO	SS	-	FREIB/CESR/Unger,Reme	Ionospheric	WDCRF/ESRLV	JGR78,5553	-
1971-S103	2440980.83	1971 Jan 29 0755	Skylark 3 AC	-	SL1001	0.000	BAC	SS	-	MSSL/Cruise,Fabian	XR Astronomy	NatPS231,52	BAE	-
1971-S116	2440989.27	1971 Feb 6 1830	Skylark 3	-	S80/1	0.000	ESRO	SS	-	BIR/RSRS/BONN/Sayers	Ionospheric	WDCRF	BAE	-
1971-S117	2440989.47	1971 Feb 6 2322	Skylark 3	-	S80/2	0.000	ESRO	SS	-	BIR/RSRS/BONN/Sayers	Ionospheric	WDCRF	BAE	-
1971-S118	2440989.66	1971 Feb 7 0345	Skylark 3	-	S80/3	0.000	ESRO	SS	-	BIR/RSRS/BONN/Sayers	Ionospheric	WDCRF	BAE	-
1971-S127	2441004.99	1971 Feb 22 1140	Skylark 3 AC	-	ESRO S85	0.000	BAC/ESRO	SF	U	MSSL/Shenton	UV Astronomy	WDCRF	BAE	-
1971-S133	2441008.93	1971 Feb 26 1018	Skylark 3 AC	-	ESRO S54	0.000	ESRO	SF	U	MSSL/Glencross	Solar X	WDCRF	BAE	-
1971-S143	2441012.92	1971 Mar 2 1008	Skylark 3	-	SL922	0.000	BAC	SS	-	UCL/MSSL/RSRS/Rees,Wrenn	Ionospheric	SR13,449	PlanSpaSci24,475	-
1971-S158	2441013.38	1971 Mar 2 2114:20	Skylark 2	-	ESRO S16/2	0.000	ESRO	SS	-	MSSL/Wrenn	Ionospheric	ssc.se	BAE	-
1971-S154	2441021.87	1971 Mar 11 0856	Skylark 3 AC	-	ESRO S55	0.000	ESRO	SS	-	LUX/TUBI/MPE/Griffiths	XR Astronomy/Solar X	NatPS236,104	SoPh57,345	-
1971-S167	2441026.25	1971 Mar 15 1755:16	Skylark 2	-	ESRO S87/1	0.000	ESRO	SS	-	KTH/Fahleson	Ionospheric	WDCRF/ESRLV	BAE	-
1971-S205	2441035.27	1971 Mar 24 1832:00	Skylark 2	-	ESRO S87/2	0.000	ESRO	SS	-	KTH/Fahleson	Ionospheric	WDCRF	BAE	-
1971-S206	2441036.08	1971 Mar 25 1350	Skylark	7C	ESRO S56B/1	0.000	ESRO	SF	U	LUX/RSRS/BONN/Hall	Ionos/Solar UV,X	WDCRF	BAE	-
1971-S271	2441082.00	1971 May 10 1203	Skylark 6 AC	-	SL812	0.000	BAC	SF	U	LUX/Adams	XR Astronomy	WDCRF	BAE	-
1971-S280	2441085.50	1971 May 14	Skylark 1	-	S56B/2	0.000	ESRO	SS	-	LUX/RSRS/	Ionos/Solar UV,X	BAE	BAE	-
1971-A57	2441124.50	1971 Jun 22	Rook IIIA	?	Ori23	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1971-A60	2441132.50	1971 Jul	Rook IIIA	-	F1	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1971-S353	2441134.95	1971 Jul 2 1055	Skylark 3 AC	-	S73	0.000	ESRO	SS	-	MPIH/Leinert	Solar X/Opt Astron	WDCRF	BAE	-
1971-A61	2441135.50	1971 Jul 3	Rook IIIA	-	Ly7	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1971-A116	2441162.50	1971 Jul 30	Zenit	C	Zenit-Cuckoo	0.000	ESRO	SF	U	BERN/LUND/Geiss,Lindblad	Aeron/Meteorites	SR13,1113	ESRO71	-
1971-S383	2441168.59	1971 Aug 5 0215	Skylark 6 AC	-	SL902	0.000	BAC	SS	-	CULH/Shenton	Solar UV	SoPh27,280	BAE	-
1971-S477	2441221.60	1971 Sep 27 0230	Skylark 6 AC	-	SL1002	0.000	BAC	SS	-	LUX/Janes	XR Astronomy	WDCRF	BAE	-
1971-S481	2441224.17	1971 Sep 29 1600	Skylark 3	-	ESRO S47/2	0.000	ESRO	SS	-	ROE/Campbell	UV Astronomy	JCM	BAE	-
1971-S508	2441231.90	1971 Oct 7 0940	Skylark 6	-	SL973	0.000	BAC	SS	-	MSSL/Willmore,Cruise	XR Astronomy	WDCRF	BAE	-
1971-S520	2441236.50	1971 Oct 12	Skylark 3	-	ESRO S81	0.000	BAC/ESRO	SS	-	ROSAP/FRASC/Gratton	XR Astronomy	BAE	BAE	-
1971-A88	2441244.50	1971 Oct 20	Jabiru 2	-	J-1	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1971-S535	2441244.90	1971 Oct 20 0940	Skylark 3 AC	-	ESRO S89	0.000	ESRO	SS	-	LUX/	Solar X	WDCRF	BAE	-
1971-S541	2441248.98	1971 Oct 24 1135	Skylark 6	-	SL974	0.000	BAC	SS	-	MSSL/Willmore,Turner	XR Astronomy	WDCRF	BAE	-
1971-A97	2441271.50	1971 Nov 16 0004	Skylark 2 AC	-	ESRO S44/2	0.000	ESRO	SF	S1	MPE/Boldt,Hessberg	UV Astronomy	WDCRF	BAE	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S574	2441281.22	1971 Nov 25 1713:05	Skylark 2	-	ESRO S70/2	0.000	ESRO	SS	-	RSRS/BIR/	Ionospheric/VLF	WDCRF	BAE	-
1971-S575	2441285.75	1971 Nov 30 0559	Skylark 3 AC	-	SL1101	0.000	BAC	SS	-	LUX/Pounds	Solar X	WDCRF	BAE	-
1971-A105	2441289.50	1971 Dec 4	Jabiru 2	-	J-2	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1971-S599	2441295.69	1971 Dec 10 0430	Skylark 3 AC	-	SL903	0.000	BAC	SS	-	MSSL/Brabban,Glencross	Solar X	WDCRF	ProcRSocA334,231	-
1971-S605	2441300.01	1971 Dec 14 1211:16	Skylark 2	-	ESRO S82	0.000	ESRO	SS	-	BERN/LUND/Geiss,Lindblad	Meteorites	SR13,1113	WDCRF	-
1972-S92	2441375.75	1972 Feb 28 0554:00	Skylark 3 AC	-	ESRO S84	0.000	ESRO	SS	-	IASB/Ackerman	Solar UV	WDCRF	SoPh30,345	-
1972-S93	2441375.91	1972 Feb 28 0947:03	Skylark 3 AC	-	ESRO S90	0.000	ESRO	SS	-	IASB/Ackerman	Solar UV	WDCRF	SoPh30,345	-
1972-S96	2441379.44	1972 Mar 2 2226:50	Skylark 4	-	ESRO S77/1	0.000	ESRO	SS	-	KGO/RSRS/Sanderson	Auroral	WDCRF	PlanSpaSci23,867	-
1972-S115	2441392.60	1972 Mar 16 0230	Skylark 6	-	SL1023	0.000	BAC	SS	-	UCL/MSSL/Rees,Wilson	Ionospheric	WDCRF	BAE	-
1972-S119	2441393.72	1972 Mar 17 0510	Skylark 6 AC	-	SL1009	0.000	BAC	SS	-	CULH/Shenton	Solar UV	WDCRF	BAE	-
1972-S136	2441401.48	1972 Mar 24 2331	Skylark 2	-	ESRO S75/1	0.000	ESRO	SS	-	BONN/Offermann	Ionospheric	WDCRF	PlanSpaSci29,747	-
1972-S138	2441403.48	1972 Mar 26 2330	Skylark 6 AC	-	SL1081	0.000	BAC	SS	-	RAE/Abbott	Test/Earth imaging	JBIS30-272	BAE	-
1972-S142	2441406.56	1972 Mar 30 0125	Skylark 4	-	ESRO S75/2	0.000	ESRO	SS	-	BONN/Offermann	Ionospheric	WDCRF	PlanSpaSci29,747	-
1972-A67	2441490.50	1972 Jun 22	Rook	-	Ba5	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1972-S249	2441494.12	1972 Jun 25 1447	Skylark 3 AC	-	ESRO S91	0.000	ESRO	SS	-	MSSL/	XR Astronomy	WDCRF	BAE	-
1972-S252	2441503.50	1972 Jul 5	Skylark 6 AC	-	SL1191	0.000	BAC	SS	-	RAE/	Test	BAE	BAE	-
1972-A80	2441518.50	1972 Jul 20	Skylark 6	-	SL1183	0.000	BAC	SS	-	RAE/	Test	BAE	BAE	-
1972-S313	2441585.41	1972 Sep 24 2150	Skylark 4	-	ESRO S77/2	0.000	ESRO	SS	-	RSRS/Bryant,Kremser	Auroral	WDCRF	BAE	-
1972-S344	2441603.52	1972 Oct 13 0028:15	Skylark 2	-	ESRO S105	0.000	ESRO	SS	-	MSSL/Basto	Auroral	ssc.se	ESRO72	-
1972-S351	2441608.28	1972 Oct 17 1839	Skylark 2	-	SL1022	0.000	BAC	SS	-	QUB/SHEF/Byrne	Ionospheric	WDCRF	BAE	-
1972-S359	2441613.99	1972 Oct 23 1151	Skylark 6 AC	-	SL402	0.000	BAC	SS	-	MSSL/MO/Culhane,Bentley	XR Astron/UV Astron	WDCRF	BAE	-
1972-S367	2441616.69	1972 Oct 26 0430	Skylark 3 AC	-	SL1003	0.000	BAC	SS	-	MSSL/Brabban,Glencross	Solar X	WDCRF	SoPh42,355	-
1972-S388	2441623.76	1972 Nov 2 0610	Skylark 6 AC	-	ESRO S95	0.000	BAC/ESRO	SS	-	CEA/UTR/	XR Astron/Solar X	ESRO72	BAE	-
1972-S400	2441641.70	1972 Nov 20 0454	Skylark 3	-	ESRO S94	0.000	ESRO	SS	-	-	XR Astronomy	ESRO72	BAE	-
1972-S417	2441658.71	1972 Dec 7 0503	Skylark 3 AC	-	SL1202	0.000	BAC	SS	-	LUX/Hoffman,Janes	XR Astronomy	WDCRF	BAE	-
1972-S423	2441662.50	1972 Dec 11 0000	Skylark 3 AC	-	SL1005	0.000	BAC	SS	-	QUB/SHEF/ADEL/Byrne	Ionos/Aeron	WDCRF	JGR83,A9,4377	-
1972-S434	2441665.10	1972 Dec 13 1419:59	Zenit	C	Zenit-Cuckoo	0.000	DFVLR	SS	-	BERN/FREIB/Eberhardt	Ionos	AND	Moraba/ESRO72	-
1973-S40	2441712.77	1973 Jan 30 0635	Skylark 3 AC	-	SL1205	0.000	BAC	SS	-	MSSL/Culhane,Cruise	XR Astronomy	WDCRF	BAE	-
1973-S86	2441742.38	1973 Feb 28 2100	Skylark 6 AC	-	SL1010	0.000	BAC	SS	-	LUX/Griffiths	XR Astronomy	FDC/WDCRF	BAE	-
1973-S103	2441755.64	1973 Mar 14 0315	Skylark 6 AC	-	SL1004	0.000	BAC	SS	-	CULH/Shenton	Solar X	WDCRF	MNRAS166,543	-
1973-S112	2441761.70	1973 Mar 20 0452	Skylark 6 AC	-	SL1102	0.000	BAC	SS	-	CULH/Shenton	Solar UV	WDCRF	MNRAS171,697	-
1973-S116	2441764.24	1973 Mar 22 1743	Skylark 6 AC	-	SL1182	0.000	BAC	SS	-	RAE/	Earth imaging	JBIS30-272	BAE	-
1973-S124	2441770.24	1973 Mar 28 1751	Skylark 6 AC	-	SL1181	0.000	BAC	SS	-	RAE/	Earth imaging	JBIS30-272	BAE	-
1973-S153	2441790.15	1973 Apr 17 1535	Skylark 6 AC	-	SL1011	0.000	BAC	SS	-	LUX/Adams,Whitford	XR Astronomy	WDCRF	BAE	-
1973-S203	2441849.94	1973 Jun 16 1030	Skylark 6 AC	-	SL1111	0.000	BAC	SS	-	RSRS/UCL/Shenton,Griffin	UV Astronomy	WDCRF	MNRAS176,29P	-
1973-S234	2441880.50	1973 Jul 17	Skylark 3 AC	-	SL1291	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1973-S267	2441898.84	1973 Aug 4 0810	Skylark 4 AC	-	SL1081A	0.000	BAC	SF	S2	RAE/SSC/DFVLR/	Earth imaging	WDCRF	BAE/ESRO73	-
1973-S338	2441957.58	1973 Oct 2 0152:06	Skylark 2 AC	-	ESRO S93	0.000	DFVLR	SS	-	MPE/ESRO/Haser,Olmos	Test/UV Astron	Moraba	JBIS27,157	Kohoutek
1973-S343	2441961.65	1973 Oct 6 0331:34	Skylark 4 AC	-	ESRO S92	0.000	DFVLR	SS	-	MPE/Hessberg	Opt Astron/UV Astron	Moraba	AAp42,395	Gamma Ori
1973-S347	2441972.32	1973 Oct 16 1943:39	Skylark 6	-	SL1121	0.000	BAC	SS	-	RSRS/MSSL/SOTON/Bryant	Ionospheric/Auroral	WDCRF/AND	BAE	-
1973-S369	2441986.29	1973 Oct 30 1850:44	Skylark 6	-	SL1122	0.000	BAC	SS	-	RSRS/MSSL/SOTON/Hall	Ionospheric/Auroral	WDCRF/AND	BAE	-
1973-S482	2442000.50	1973 Nov 14	Jabiru 3	-	J-3	0.000	RAE	AS	-	-	Test	JBIS45-139	AASH32-377	-
1973-S389	2442003.45	1973 Nov 16 2245:50	Skylark 6	-	SL1123	0.000	BAC	SS	-	BIR/UCL/Goodall,Rees	Ionospheric/Auroral	WDCRF/AND	BAE	-
1973-S407	2442012.73	1973 Nov 26 0535	Skylark 6 AC	-	SL1206	0.000	BAC	SS	-	LUX/Pounds,Pye	Solar X	WDCRF	AAp65,123	-
1973-S408	2442013.58	1973 Nov 27 0151:56	Skylark 4 AC	-	ESRO S74	0.000	DFVLR	SS	-	MPE/Hessberg	Opt Astron/UV Astron	Moraba	AAp42,395	-
1973-S424	2442022.47	1973 Dec 5 2323:58	Skylark 4	-	SL1124	0.000	BAC	SS	-	SOTON/SHEF/Rycroft,Bull.	Auroral/Ionospheric	WDCRF	BAE/AND	-
1973-S483	2442022.50	1973 Dec 6	Jabiru 3	-	J-4	0.000	RAE	AS	-	-	Test	JBIS45-139	AASH32-377	-
1974-S56	2442060.30	1974 Jan 12 1912:33	Skylark 4 AC	-	HRC 1	0.000	DFVLR	SS	-	MPE/Haser	XR Astron	Moraba	BAE	-
1974-S87	2442083.11	1974 Feb 4 1440	Skylark 6 AC	-	SL1203	0.000	BAC	SS	-	MSSL/UCB/Boyd,Bowyer	XR Astron/EUV Astron	WDCRF	BAE	-
1974-S179	2442160.54	1974 Apr 23 0103	Skylark 6 AC	-	SL1207	0.000	BAC	SS	-	UCL/ADEL/Rees,Carver	Ionos/Aeron	JGR83,A9,4377	BAE	-
1974-S222	2442216.71	1974 Jun 18 0500	Skylark 6 AC	-	SL1104	0.000	BAC	SS	-	MSSL/Culhane,Cruise	XR Astronomy	WDCRF	BAE	-
1974-S274	2442250.50	1974 Jul 22	Skylark 3 AC	-	SL1292	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1974-A36	2442296.50	1974 Sep 6	Jabiru 3	-	J-5	0.000	RAE	AS	-	-	Test	users.senet.com.au	-	-
1974-S337	2442325.15	1974 Oct 4 1540	Skylark 6 AC	-	SL1012	0.000	BAC	SS	-	MSSL/Culhane	XR Astronomy	MN178,57P	BAE	-
1974-S341	2442327.77	1974 Oct 7 0633:30	Skylark 6 AC	-	SL1304	0.000	DFVLR	SS	-	LUX/TUBI/MPE/Hoffmann	XR Astronomy Huelva-3	ApJ201,L15	Moraba	-
1974-S343	2442330.73	1974 Oct 10 0530	Skylark 10A	-	SL1471	0.000	BAC	SS	-	RAE/	Test	WDCRF	BAE	-
1974-A50	2442351.50	1974 Oct 31	Jabiru 3	-	J-6	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1974-S371	2442353.36	1974 Nov 1 2043:42	Skylark 6	-	SL1221 (ESRO S107)	0.000	BAC	SS	-	RSRS/KTH/Edwards,Fahle.	Auroral/Ionospheric	WDCRF	BAE/AND	-
1974-A54	2442371.50	1974 Nov 20	Jabiru 3	-	J-7	0.000	RAE	AS	-	-	Test	JBIS45-139	-	-
1974-S392	2442380.19	1974 Nov 28 1640	Skylark 6 AC	-	SL911	0.000	BAC	SS	-	CULH/Griffin	UV Astronomy	WDCRF	BAE	-
1975-S79	2442468.57	1975 Feb 25 0135	Skylark 7 AC	-	SL1301	0.000	BAC	SS	-	CULH/Firth,Jones	Solar X	WDCRF	BAE	-
1975-S84	2442471.50	1975 Feb 28	Skylark 3 AC	-	SL1293	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1975-S103	2442485.70	1975 Mar 14 0452	Skylark 6 AC	-	ESRO S98 (Astro 1/2)	0.000	DFVLR	SS	-	TUBI/MPE/Brauninger	Solar X?	Moraba	BAE	-
1975-S212	2442587.97	1975 Jun 24 1118	Skylark 6 AC	-	SL1105	0.000	BAC	SS	-	LUX/Pounds	XR Astronomy	WDCRF	JBIS28,779	-
1975-S223	2442596.50	1975 Jul 3	Skylark 6 AC	-	SL1295	0.000	BAC	SS	-	RAE/	MIRV test	JCM	BAE	-
1975-S299	2442694.70	1975 Oct 9 0449:25	Skylark 6 AC	-	ESRO S103	0.000	DFVLR	SS	-	MPIH/Pitz	UV Astronomy	Moraba	ESA-SP135-253	-
1975-S326	2442741.14	1975 Nov 24 1515	Skylark 7 AC	-	SL1112	0.000	BAC	SS	-	LUX/CEA/Pounds	XR Astronomy	WDCRF	BAE	-
1976-S47	2442782.15	1976 Jan 4 1530:03	Skylark 3 AC	-	DLR H-CR-69	0.000	DFVLR	SS	-	BONN/	Aeron/Ionos/Solar UV/X	Moraba	ESA-SP152-481	-
1976-S67	2442799.15	1976 Jan 21 1531:00	Skylark 3 AC	-	DLR H-CR-71	0.000	DFVLR	SS	-	BONN/	Aeron/Ionos/Solar UV/X	Moraba	JATP41,1097	-
1976-A06	2442805.23	1976 Jan 27 1730:00	Skylark 4 AC	-	Heatpipe I	0.000	DFVLR	SF	U	KOLN/Lorschiedter	Tech	Moraba	ESA-SP135,WDCRR	-
1976-S85	2442807.55	1976 Jan 30 0107	Skylark 7 AC	-	SL1302	0.000	BAC	SS	-	MSSL/LPARL/Boyd	Solar X	WDCRF	BAE	-
1976-S180	2442910.95	1976 May 12 1050	Skylark 7 AC	-	SL1115	0.000	BAC	SS	-	BIR/MSFC/MSSL/Willmore	XR Astronomy	WDCRF	BAE	-
1976-S188	2442925.52	1976 May 27 0030	Skylark 7	-	SL1211/1271?	0.000	BAC	SS	-	BAC/UCL/Beattie,Rees	Test/Ionos Li	WDCRF	BAE	or SL1271?
1976-S200	2442940.24	1976 Jun 10 1740	Skylark 7 AC	-	SL1212	0.000	BAC	SS	-	MSSL/Boyd,Zarnecki	XR Astronomy	WDCRF	BAE	-
1976-S204	2442946.82	1976 Jun 17 0747	Skylark 7 AC	-	SL1501	0.000	BAC	SS	-	BIR/Skinner,Willmore	XR Astronomy	WDCRF	BAE	-
1976-S227	2442976.76	1976 Jul 17 0610	Skylark 7 AC	-	SL1402 (DLR H-GR-77)	0.000	BAC	SS	-	MSSL/MPE/Staubert	XR Astronomy	Moraba	BAE	-
1976-S318	2443086.82	1976 Nov 4 0745	Skylark 6 AC	-	SL1306	0.000	BAC	SS	-	LUX/Pounds,Giles	XR Astronomy	WDCRF	MNRAS195,721	-
1976-S333	2443104.38	1976 Nov 21 2114:09	Skylark 12	-	SL1422	0.000	BAC	SS	-	MSSL/RSRS/Johnstone	Auroral suprathermal	AND	BAE	-
1976-S341	2443115.11	1976 Dec 2 1440	Skylark 7 AC	-	SL1114	0.000	BAC	SS	-	RSRS/Hardcastle,Shenton	UV Astronomy	WDCRF	BAE	-
1976-S345	2443123.51	1976 Dec 11 0014:38	Skylark 12	-	SL1425	0.000	BAC	SS	-	UCL/RSRS/NDRE/Rees	Auroral	WDCRF	JATP42,167	-
1977-S46	2443166.39	1977 Jan 22 2128:00	Skylark 7	-	PHA F2A AF6-F2	0.000	DFVLR	SS	-	TUB/FREIB/Theile,	Aeron/Auroral EUV	Moraba	BAE/AND	-
1977-S64	2443183.25	1977 Feb 8 1758:20	Skylark 3	-	S22	0.000	SSC	SS	-	LIEGE/?	Auroral	WDCRF	BAE	-
1977-S65	2443183.42	1977 Feb 8 2211:51	Skylark 7	-	PHA F1B AF6-F1	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Aeron/Auroral EUV	Moraba	BAE/AND	-
1977-S87	2443195.38	1977 Feb 20 2114:00	Skylark 7	-	PHA F3C AB3-F3	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Aeron	Moraba	BAE/AND	-
1977-S114	2443219.42	1977 Mar 16 2204:40	Skylark 7	-	PHA F4D AB3-F4	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Aeron	Moraba	BAE/AND	-
1977-S150	2443262.02	1977 Apr 28 1225	Skylark 7 AC	-	SL1115A	0.000	BAC	SS	-	MSSL/Willmore	XR Astronomy	WDCRF	BAE	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S195	2443302.50	1977 Jun 8	Skylark 3 AC	-	SL1298	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1977-S258	2443430.39	1977 Oct 13 2126:00	Skylark 12	-	DLR A-GRC-85	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Auroral	ESA-SP152-269	BAE/AND	-
1977-S259	2443430.42	1977 Oct 13 2159:00	Skylark 12	-	SL1423	0.000	BAC	SS	-	RSRS/MSSL/Bryant,Sojka	Auroral	AND	BAE	-
1977-S276	2443450.34	1977 Nov 2 2015:00	Skylark 12	-	DLR A-GRC-87	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Auroral	ESA-SP152-269	BAE/AND	-
1977-S284	2443465.40	1977 Nov 17 2132:36	Skylark 12	-	SL1421	0.000	BAC	SS	-	RSRS/MSSL/Bryant,Johnst.	Auroral	AND	BAE	-
1977-S303	2443490.87	1977 Dec 13 0846:39	Skylark 7	-	DLR K-GR-90	0.000	DFVLR	SS	-	ERNO/SSC/	Micrograv	Moraba	BAE	-
1978-S53	2443539.40	1978 Jan 30 2137:00	Skylark 12	-	DLR A-GRC-86	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Auroral	ESA-SP152-269/AND	BAE	-
1978-S54	2443539.42	1978 Jan 30 2210:00	Skylark 12	-	DLR A-GRC-88	0.000	DFVLR	SS	-	TUB/FREIB/Theile	Auroral	ESA-SP152-269/AND	BAE	-
1978-S132	2443640.71	1978 May 12 0501	Skylark 7 AC	-	SL1305	0.000	BAC	SS	-	CULH/MSSL/Gabriel,Har.	Solar UV	WDCRF	BAE	-
1978-S193	2443720.48	1978 Jul 30 2333:13	Skylark 1	-	SSC S26/1 ION	0.000	SSC	SS	-	SSC/	Ionospheric	ESA-SP152-117	BAE	-
1978-S273	2443734.48	1978 Aug 13 2338:17	Skylark 1	-	SSC S26/2 ION	0.000	SSC	SS	-	SSC/	Ionospheric	ESA-SP152-117	BAE	-
1978-S228	2443822.68	1978 Nov 10 0414:22	Skylark 12	-	SL1424	0.000	BAC	SS	-	RSRS/SHEF/Bryant,Wooll.	Auroral VLF/TMA	ESA-SP152-301/AND	BAE	-
1978-S230	2443827.50	1978 Nov 15	Skylark 3 AC	-	SL1296	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1978-S232	2443828.83	1978 Nov 16 0749	Skylark 7	-	DLR K-GR-94	0.000	DFVLR	SS	-	ERNO/SSC/	Micrograv	Moraba	BAE	-
1978-S254	2443855.50	1978 Dec 13	Skylark 3 AC	-	SL1297	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1979-S67	2443927.01	1979 Feb 22 1215:30	Skylark 6 AC	-	DLR W-GR-96	0.000	DFVLR	SS	-	TUBI/MPE/Brauninger	Solar X	ESA-SP152	Moraba	-
1979-S86	2443933.50	1979 Mar 1	Skylark 6 AC	-	SL1299	0.000	BAC	SS	-	RAE/	MIRV test	BAE	BAE	-
1979-S94	2443945.52	1979 Mar 13 0030:00	Skylark 7 AC	-	DLR W-GR-95	0.000	DFVLR	SS	-	TUBI/MPE/Brauninger	Solar X	ESA-SP152	Moraba	-
1979-S217	2444159.09	1979 Oct 12 1409	Skylark 12 AC	-	DLR N-GRC-97	0.000	DFVLR	SS	-	TUBI/Wulf-Mathies	FUV Astron	Moraba	MitAG50,146	-
1980-S97	2444357.80	1980 Apr 28 0710:02	Skylark 7	-	DLR K-GR-100	0.000	DFVLR	SS	-	ERNO/SSC/	Micrograv	Moraba	BAE	-
1980-S201	2444559.63	1980 Nov 16 0313	Skylark 7	-	DLR K-GR-104	0.000	DFVLR	SS	-	WUPP/FREIB/	Ionos/Plasma	Moraba	ESA-SP183-89	-
1981-S106	2444724.75	1981 Apr 30 0600	Skylark 7	-	DLR K-GR-109	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	SFLT23,298	-
1981-S109	2444732.73	1981 May 8 0527	Skylark 7	-	DLR K-GR-110	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1981-S182	2444948.39	1981 Dec 9 2125:35	Skylark 7	-	DLR K-GR-112	0.000	DFVLR	SS	-	WUPP/FREIB/	Ionos/Plasma	Moraba	ESA-SP183-89	-
1982-S111	2445088.72	1982 Apr 29 0520	Skylark 7	-	DLR K-GR-113	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1982-S115	2445097.73	1982 May 8 0530	Skylark 7	-	DLR K-GR-114	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1983-S96	2445459.71	1983 May 5 0505	Skylark 7	-	DLR K-GR-118	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1983-S99	2445467.98	1983 May 13 1137	Skylark 7	-	DLR K-GR-119	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1984-S49	2445727.32	1984 Jan 27 1937	Skylark 12	-	DLR A-GRC-131	0.000	DFVLR	SS	-	UIO/MPAE/Wilhelm,Rinnert	Auroral	Moraba	BAE	-
1984-S58	2445740.67	1984 Feb 10 0412	Skylark 6	-	DLR K-GR-130	0.000	DFVLR	SS	-	WUPP/Grossmann	Aeron	Moraba	ESA-SP229-285	-
1984-S84	2445823.68	1984 May 3 0413	Skylark 7	-	DLR K-GR-132	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1984-S89	2445835.82	1984 May 15 0746	Skylark 7	-	DLR K-GR-133	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1985-S29	2446096.31	1985 Jan 30 1930:00	Skylark 12	-	DLR A-GRC-134	0.000	DFVLR	SS	-	UIO/MPAE/Wilhelm,Rinnert	Auroral	ESA-SP270-299	Moraba/AND	-
1985-A03	2446128.11	1985 Mar 3 1445	Skylark 12	-	DLR N-GRC-137	0.000	DFVLR	SF	S1?	BONN/Lay?	EUV Astronomy	Moraba	BAE	-
1985-S71	2446182.68	1985 Apr 27 0415	Skylark 7	-	DLR K-GR-138	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1985-S73	2446191.69	1985 May 6 0435	Skylark 7	-	DLR K-GR-139	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1986-S44	2446550.69	1986 Apr 30 0440	Skylark 7	-	DLR K-GR-141	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1986-S45	2446562.70	1986 May 12 0455	Skylark 7	-	DLR K-GR-142	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1987-S82	2446918.67	1987 May 3 0359:59	Skylark 7	-	DLR K-GR-144	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1987-S84	2446924.67	1987 May 9 0400	Skylark 7	-	DLR K-GR-146	0.000	DFVLR	SF	S2?	DLR/	Micrograv	Moraba	BAE	-
1987-S130	2447032.19	1987 Aug 24 1630	Skylark 7	-	DLR W-GR-147	0.000	DFVLR	SS	-	TUBI/MPE/Brauninger	XR Telescope	Moraba	ESA-SP291-24	-
1987-A20	2447122.88	1987 Nov 23 0910	Skylark 7	-	DLR K-GR-153	0.000	DFVLR	SF	S1?	DLR/	Micrograv	Moraba	BAE	-
1988-S93	2447290.88	1988 May 9 0905	Skylark 7	-	DLR K-GR-157	0.000	DFVLR	SS	-	DLR/	Test	Moraba	ssc.se	-
1988-S115	2447408.09	1988 Sep 3 1410	Skylark 12	-	DLR N-GRC-158	0.000	DFVLR	SS	-	BONN/Lay	EUV Astronomy	ESA-SP291-173	BAE	-
1988-S138	2447492.21	1988 Nov 26 1700	Skylark 2	-	DLR A-CR-159	0.000	DFVLR	SS	-	MPAE/	Aeron/Ionos/Fields	ESA-SP291-153	Moraba	-
1988-S139	2447493.85	1988 Nov 28 0820:10	Skylark 7	-	DLR K-GR-161	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba/ESRLV	BAE	-
1988-S142	2447497.92	1988 Dec 2 1005	Skylark 7	-	DLR K-GT-162	0.000	DFVLR	SS	-	DLR/	Micrograv	Moraba	BAE	-
1988-S143	2447501.44	1988 Dec 5 2230	Skylark 2	-	DLR A-CR-160	0.000	DFVLR	SS	-	MPAE/	Aeron	Moraba	ESA-SP291-153	-
1989-S36	2447565.48	1989 Feb 7 2336:30	Skylark 2	-	DLR K-CR-164	0.000	DFVLR	SS	-	MPAE/	Aeron	ESA-SP291-153	Serra	-
1989-S37	2447567.49	1989 Feb 9 2342	Skylark 2	-	DLR K-CR-165	0.000	DFVLR	SS	-	MPAE/	Aeron	ESA-SP291-153	IJRSP20,383	-
1989-S54	2447646.66	1989 Apr 30 0348	Skylark 7	-	DLR K-GR-167	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1989-S55	2447649.65	1989 May 3 0330	Skylark 7	-	DLR K-GR-168	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1989-S109	2447855.84	1989 Nov 25 0805	Skylark 7	-	DLR K-GR-170	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1989-S112	2447866.84	1989 Dec 6 0811:08	Skylark 7	-	DLR K-GR-171	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1990-S55	2447956.70	1990 Mar 6 0441	Skylark 6	-	DLR K-GRVI-173	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ESRLV	BAE	Moraba:0541Z
1990-S87	2448024.66	1990 May 13 0352	Skylark 7	-	DLR K-GR-178	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1990-S91	2448026.61	1990 May 15 0245	Skylark 7	-	DLR K-GR-179	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1990-S105	2448099.46	1990 Jul 26 2305	Skylark 6	-	DLR K-GRVI-181	0.000	DLR	SS	-	WUPP/USU/Grossmann	Aeron	Moraba	BAE	-
1990-S114	2448106.44	1990 Aug 2 2240	Skylark 7	-	DLR K-GR-182	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	Moraba	SPIEProc2050	-
1990-S153	2448210.80	1990 Nov 15 0705	Skylark 7	-	DLR K-GR-183	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	BAE	-
1990-S158	2448220.73	1990 Nov 25 0527:00	Skylark 12	-	DLR K-GRC-184	0.000	SSC/DLR	SS	-	MBB/SSC/	Test	Moraba	BAE	-
1991-S94	2448356.28	1991 Apr 9 1849:59	Skylark 7	-	DLR K-GR-187	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	Moraba	Janes96	-
1991-S173	2448583.90	1991 Nov 23 0940	Skylark 7	-	DLR K-GR-196	0.000	MBB	SS	-	MBB/	Micrograv	Moraba	-	-
1992-S97	2448948.89	1992 Nov 22 0922	Skylark 7	-	DLR K-GR-199	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	ESA-SP1206	-
1993-S30	2449108.73	1993 May 1 0535	Skylark 7	-	DLR K-GR-201	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	ESA-SP1206	-
1993-S68	2449295.80	1993 Nov 4 0707	Skylark 7	-	MASER 6	0.000	SSC	SS	-	SSC/	Micrograv	ESA-SP1206	WWW-SSC	-
1993-S71	2449317.96	1993 Nov 26 1100	Skylark 7	-	DLR K-GR-205	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	-	-
1994-S33	2449477.68	1994 May 5 0415	Skylark 7	-	DLR K-GR-209	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	ESA-SP1206	-
1994-S85	2449686.94	1994 Nov 30 1030	Skylark 7	-	DLR K-GR-213	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	-	-
1996-S10	2450144.92	1996 Mar 2 1000	Skylark 7	-	DLR K-GR-220	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	-	-
1996-S19	2450206.68	1996 May 3 0416	Skylark 7	-	DLR K-GR-221	0.000	SSC	SS	-	SSC/	Micrograv	Moraba	WWW-SSC	-
1996-S72	2450411.96	1996 Nov 24 1105	Skylark 7	-	DLR K-GR-222	0.000	ASTD	SS	-	ASTD/	Micrograv	Moraba	-	-
1998-S09	2450851.82	1998 Feb 7 0740	Skylark 7	-	DLR K-GR-231	0.000	SSC	SS	-	SSC/	Micrograv	Moraba	WWW-SSC	-
1999-S32	2451312.98	1999 May 14 1133	Skylark 7	-	MASER 8	0.000	SSC	SS	-	SSC/	Micrograv	WWW-SSC	-	-
2000-S16	2451630.97	2000 Mar 27 1117	Skylark 7	-	TEXUS 37	0.000	SSC	SS	-	ASTD/	Micrograv	WWW-SSC	-	-
2000-S17	2451636.82	2000 Apr 2 0734	Skylark 7	-	TEXUS 38	0.000	SSC	SS	-	ASTD/	Micrograv	Powell	-	-
2001-S20	2452037.91	2001 May 8 0955	Skylark 7	-	TEXUS 39	0.000	SSC	SS	-	ASTD/	Micrograv	www.ssc.se	-	-
2002-S20	2452349.90	2002 Mar 16 0937	Skylark 7	-	MASER 9	0.000	SSC	SS	-	SSC/	Micrograv	www.ssc.se	ESA-SP530-129	-
2003-S16	2452737.85	2003 Apr 8 0820	Skylark 7	-	TEXUS 40	0.000	SSC	SS	-	ASTD/	Micrograv	www.ssc.se	-	-
2004-S68	2453341.94	2004 Dec 2 1030	Skylark 7	-	TEXUS 41	0.000	SSC	SS	-	ASTD/	Micrograv	www.ssc.se	-	-
2005-S18	2453492.71	2005 May 2 0500	Skylark 7	-	MASER 10	0.000	SSC	SS	-	SSC/Florin	Micrograv	www.ssc.se	ESA-SP590-531	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1956-A109	2435783.50	1956 Nov 6	Recruit	-	-	Heat Transfer	-	-	F2H2-942	NAOTS	RW04/22?	WI	LP1	4	-	-
1957-A73	2436057.50	1957 Aug 7	Recruit T55	-	-	Heat Transfer	-	-	F2H2-942	NAOTS	RW04/22?	WI	LP1	4?	-	-
1957-A105	2436106.50	1957 Sep 25	Farside	-	-	Shot 1	-	-	BLN-FS	ENW	FS	-	-	20?	-	-
1957-S117	2436114.50	1957 Oct 3	Farside	-	-	Shot 2	-	-	BLN-FS	ENW	FS	-	-	800?	-	-
1957-S119	2436118.50	1957 Oct 7	Farside	-	-	Shot 3	-	-	BLN-FS	ENW	FS	-	-	700?	-	-
1957-A120	2436122.50	1957 Oct 11	Farside	-	-	Shot 4	-	-	BLN-FS	ENW	FS	-	-	30?	-	-
1957-S133	2436131.50	1957 Oct 20	Farside	-	-	Shot 5	-	-	BLN-FS	ENW	FS	-	-	5000?	-	-
1957-S137	2436133.50	1957 Oct 22	Farside	-	-	Shot 6	-	-	BLN-FS	ENW	FS	-	-	5000?	-	-
1957-A01	2435838.50	1957	Recruit T55	-	-	Heat Transfer	-	-	F2H2-942	NAOTS	RW04/22?	WI	LP1	4?	-	-
1958-A08	2436234.50	1958 Jan 31	Recruit T55	-	-	Heat Transfer	-	-	F2H2-942	NAOTS	RW04/22?	WI	LP1	4?	-	-
1958-A23	2436290.50	1958 Mar 28	Recruit T55	-	-	-	-	-	F2H2-942	NAOTS	RW04/22?	WI	LP1	4?	-	-
1958-A73	2436399.50	1958 Jul 15	Recruit T55	-	-	-	-	-	B-57A-218	NAOTS	RW04/22?	WI	LP1	14	-	-
1958-A81	2436408.50	1958 Jul 24	Recruit T55	-	-	-	-	-	B-57A-218	NAOTS	RW04/22?	WI	LP1	14	-	-
1958-A115	2436458.50	1958 Sep 12	Recruit T55	-	-	-	-	-	B-57A-218	NAOTS	RW04/22?	WI	LP1	12	-	-
1959-A07	2436568.50	1959	Recruit	-	-	Blunt cone Stab.	-	-	-	WI	-	-	-	6	-	-
1959-A08	2436568.50	1959	Recruit	-	-	Ogive Stab.	-	-	-	WI	-	-	-	4	-	-
1960-S05	2436934.50	1960 Q1?	Jaguar	-	-	-	-	-	B-57A-SWC	HADC	RW07/25?	WS	LP1	800?	-	-
1960-S506	2436934.50	1960 Q1?	Jaguar	-	-	-	-	-	B-57A-SWC	HADC	RW07/25?	WS	LP1	800?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1956-A109	2435783.50	1956 Nov 6	Recruit	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1957-A73	2436057.50	1957 Aug 7	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1957-A105	2436106.50	1957 Sep 25	Farside	-	-	0.000	AFOSR	HF	U	-	Test/Ionos	JBIS35-462	-	-
1957-S117	2436114.50	1957 Oct 3	Farside	-	-	0.000	AFOSR	HS	-	-	Test/Ionos	JBIS35-462	-	-
1957-S119	2436118.50	1957 Oct 7	Farside	-	-	0.000	AFOSR	HF	U	-	Test/Ionos	JBIS35-462	-	-
1957-A120	2436122.50	1957 Oct 11	Farside	-	-	0.000	AFOSR	HF	U	-	Test/Ionos	JBIS35-462	-	-
1957-S133	2436131.50	1957 Oct 20	Farside	-	-	0.000	AFOSR	HS	-	-	Test/Ionos	JBIS35-462	-	-
1957-S137	2436133.50	1957 Oct 22	Farside	-	-	0.000	AFOSR	HS	-	-	Test/Ionos	AE1960	-	-
1957-A01	2435838.50	1957	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1958-A08	2436234.50	1958 Jan 31	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1958-A23	2436290.50	1958 Mar 28	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1958-A73	2436399.50	1958 Jul 15	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	TN-D-278	-
1958-A81	2436408.50	1958 Jul 24	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	-	-
1958-A115	2436458.50	1958 Sep 12	Recruit T55	-	-	0.000	LERC	AS	-	-	Test	RP-1028	TN-D-278	-
1959-A07	2436568.50	1959	Recruit	-	-	0.000	LARCN	AS	-	-	Test	TN-D-1506	-	-
1959-A08	2436568.50	1959	Recruit	-	-	0.000	LARCN	AS	-	-	Test	TN-D-1506	-	-
1960-S05	2436934.50	1960 Q1?	Jaguar	-	-	0.000	AFSWC	SS	-	AFSWC/	Test/Aeron	RP-1028	-	-
1960-S506	2436934.50	1960 Q1?	Jaguar	-	-	0.000	AFSWC	SS	-	AFSWC/	Test/Aeron	RP-1028	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-M12	2460262.02	2023 Nov 13 1230	Red Kite	-	-	SOAR	-	-	-	AND	-	-	-	72	-	-
2024-S06	2460367.81	2024 Feb 27 0727:00	Red Kite/IM	-	MAPHEUS 14	DLR MAPHEUS 14	-	-	-	ESR	S	-	-	265	-	-
2024-S68	2460625.86	2024 Nov 11 0838	Red Kite/IM	-	MAPHEUS 15	DLR MAPHEUS 15	-	-	-	ESR	S	-	-	309	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-M12	2460262.02	2023 Nov 13 1230	Red Kite	-	-	0.000	DLR	SS	-	DLR/	Test	andoyaspace.no	-	-
2024-S06	2460367.81	2024 Feb 27 0727:00	Red Kite/IM	-	MAPHEUS 14	0.000	DLR	SS	-	DLR/	Micrograv	sscspace.com	-	-
2024-S68	2460625.86	2024 Nov 11 0838	Red Kite/IM	-	MAPHEUS 15	0.000	DLR	SS	-	DLR/	Micrograv	sscspace.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A334	2434610.11	1953 Aug 20 1437	Redstone	-	RS-1 XH?	R&D 1	-	-	-	CC	LC4	-	-	6?	15	-
1954-S01	2434770.14	1954 Jan 27 1520	Redstone	-	RS-2 XU?	R&D 2	-	-	-	CC	LC4	-	-	90?	274	-
1954-A242	2434868.23	1954 May 5 1728	Redstone	-	RS-3 XN?	R&D 3	-	-	-	CC	LC4	-	-	0	0	-
1954-S64	2434973.09	1954 Aug 18 1404	Redstone	-	RS-4 XT	R&D 4	-	-	-	CC	LC4	-	-	90?	240	-
1954-A641	2435064.26	1954 Nov 17 1812	Redstone	-	RS-6 XV	R&D 5	-	-	-	CC	LC4	-	-	39	85	-
1955-A87	2435148.34	1955 Feb 9 2015	Redstone	-	RS-8 XL	R&D 6	-	-	-	CC	LC4	-	-	90?	213	-
1955-S31	2435217.79	1955 Apr 20 0651	Redstone	-	RS-9 XE	R&D 7	-	-	-	CC	LC6	-	-	90?	251	-
1955-S39	2435252.68	1955 May 25 0424	Redstone	-	RS-10 HX?	R&D 8	-	-	-	CC	LC6	-	-	90?	236	-
1955-S70	2435350.51	1955 Aug 31 0011	Redstone	-	RS-7 XI	R&D 9	-	-	-	CC	LC6	-	-	80?	157	-
1955-A472	2435372.74	1955 Sep 22 0551	Jupiter A	-	RS-11 HH?	R&D 10	-	-	-	CC	LC6	-	-	5?	18	-
1955-S106	2435447.53	1955 Dec 6 0046	Jupiter A	-	RS-12 HU?	R&D 11	-	-	-	CC	LC6	-	-	90?	268	-
1956-S19	2435547.52	1956 Mar 15 0036	Jupiter A	-	RS-18 HL	Jupiter A 1	-	-	-	CC	LC6	-	-	90?	248	-
1956-S31	2435609.68	1956 May 16 0421	Jupiter A	-	RS-19 HE	Jupiter A 2	-	-	-	CC	LC6	-	-	90?	314	-
1956-S55	2435673.86	1956 Jul 19 0845	Jupiter A	-	CC-13 HN?	Jupiter A 3	-	-	-	CC	LC5	-	-	90?	263	GBI
1956-S71	2435693.85	1956 Aug 8 0825	Jupiter A	-	RS-20 UX?	Jupiter A 4	-	-	-	CC	LC6	-	-	90?	259	-
1956-S80	2435736.78	1956 Sep 20 0645	Jupiter C	-	RS-27 UI	Jupiter C/Dummy Nose	-	-	-	CC	LC5	-	-	1097	5395	-
1956-S86	2435764.88	1956 Oct 18 0905	Jupiter A	-	CC-14 HT	Jupiter A 5	-	-	-	CC	LC6	-	-	90?	255	-
1956-A106	2435777.59	1956 Oct 31 0204	Jupiter A	-	RS-25 US	Jupiter A 6	-	-	-	CC	LC6	-	-	1	0	-
1956-S99	2435791.59	1956 Nov 14 0205	Jupiter A	-	RS-28 UL?	Jupiter A 7/Sandia PL	-	-	-	CC	LC6	-	-	90?	282	WCay
1956-S105	2435807.06	1956 Nov 29 1323	Jupiter A	-	CC-15 HS	Jupiter A 8	-	-	-	CC	LC6	-	-	90?	259	-
1956-S110	2435826.60	1956 Dec 19 0230	Jupiter A	-	RS-22 UU?	Jupiter A 9	-	Unstable Flight Control	-	CC	LC6	-	-	178	744	-
1957-S09	2435857.57	1957 Jan 19 0137	Jupiter A	-	CC-16 HV?	Jupiter A 10	-	Short Range Test	-	CC	LC6	-	-	90?	114	-
1957-S17	2435911.84	1957 Mar 14 0812	Jupiter A	-	CC-32 NU?	Jupiter A 11	-	-	-	CC	LC6	-	-	90?	256	-
1957-S20	2435925.56	1957 Mar 28 0122	Jupiter A	-	CC-30 NX	Jupiter A 12	-	Short Range Test	-	CC	LC6	-	-	90?	135	-
1957-S33	2435973.83	1957 May 15 0755	Jupiter C	-	RS-34 NT	Jupiter C/Jupiter RV	-	-	-	CC	LC6	-	-	655	1282	-
1957-S45	2436015.96	1957 Jun 26 1109	Jupiter A	-	CC-31 NH	Jupiter A 13	Hardtack test?	-	-	CC	LC6	-	-	90?	250	-
1957-S57	2436031.77	1957 Jul 12 0630	Jupiter A	-	CC-35 NS?	Jupiter A 14	Hardtack test?	-	-	CC	LC6	-	-	90?	241	-
1957-S67	2436045.68	1957 Jul 26 0417	Jupiter A	-	CC-37 NI?	Jupiter A 15	Hardtack test?	-	-	CC	LC6	-	-	90?	234	-
1957-S78	2436058.79	1957 Aug 8 0659	Jupiter C	-	RS/CC-40 TX	Jupiter RV	-	-	-	CC	LC6	-	-	460	2163	-
1957-S109	2436092.61	1957 Sep 11 0241	Jupiter A	-	CC-38 NL?	Jupiter A 16	-	-	-	CC	LC6	-	-	138?	28	-
1957-S116	2436114.31	1957 Oct 2 1929	Jupiter A	-	CC-39 NE	Jupiter A 17	-	-	-	CC	LC6	-	-	90?	239	-
1957-A127	2436142.70	1957 Oct 31 0452	Jupiter A	-	CC-41 TH?	Jupiter A 18	-	-	-	CC	LC6	-	-	40?	89	-
1957-S177	2436183.52	1957 Dec 11 0036	Jupiter A	-	CC-42 TU?	Jupiter A 19	-	-	-	CC	LC6	-	-	90?	263	-
1958-S09	2436218.56	1958 Jan 15 0124	Jupiter A	-	CC-45 TS?	Jupiter A 20	Hardtack pod test	-	-	CC	LC6	-	-	90?	264	-
1958 ALP	2436235.66	1958 Feb 1 0347:56	Jupiter C	JunoI	RS-29 UE	Explorer 1	Explorer 1	-	-	CC	LC26A	-	-	2543	-	-
1958-S22	2436246.54	1958 Feb 12 0054	Redstone	-	CC-46 TV?	Jupiter R&D 1	-	-	-	CC	LC6	-	-	90?	263	GBI
1958-S37	2436262.33	1958 Feb 27 1959	Redstone	-	CC-43 TN	Jupiter R&D 2	-	-	-	CC	LC6	-	-	90?	264	GBI
1958-F02	2436268.27	1958 Mar 5 1827:57	Jupiter C	JunoI	RS/CC-26 UV	Explorer 2	Explorer 2	-	-	CC	LC26A	-	-	379	-	-
1958 GAM	2436289.23	1958 Mar 26 1738:03	Jupiter C	JunoI	RS-24 UT	Explorer 3	Explorer 3	-	-	CC	LC5	-	-	2809	-	-
1958-S63	2436340.50	1958 May 17 0005	Redstone	-	RS-1002	Troop Launch 1	40FA 217Btn Bat A	-	-	CC	LC5	-	-	90?	315	-
1958-S77	2436357.70	1958 Jun 3 0450	Redstone	-	CC-1004	Troop Launch 2	40FA 217Btn Bat B	-	-	WS	ALA3	-	-	90?	115	WS
1958-S83	2436366.58	1958 Jun 12 0159	Jupiter A	-	CC-54 ST	Jupiter R&D 3	-	-	-	CC	LC6	-	-	90?	253	GBI
1958-S88	2436379.65	1958 Jun 25 0336	Redstone	-	CC-48 TL?	Jupiter R&D 4	-	-	-	CC	LC6	-	-	90?	268	GBI
1958 EPS	2436411.13	1958 Jul 26 1500:57	Jupiter C	JunoI	RS/CC-44 TT	Explorer 4	Explorer 4	-	-	CC	LC5	-	-	2234	-	-
1958-M10	2436416.91	1958 Aug 1 0947	Redstone	-	CC-50 SX	Hardtack Teak	-	-	-	JI	LC1	-	-	76	-	-
1958-A89	2436427.89	1958 Aug 12 0927	Redstone	-	CC-51 SH	Hardtack Orange	-	-	-	JI	LC1	-	-	41	-	-
1958-F11	2436439.76	1958 Aug 24 0617:22	Jupiter C	JunoI	RS/CC-47 HN	Explorer 5	Explorer 5	-	-	CC	LC5	-	-	284	-	-
1958-S200	2436464.25	1958 Sep 17 1800	Redstone	-	CC-56 SV	R&D	-	Dive phase dynamics	-	CC	LC6	-	-	90?	340	-
1958-F18	2436499.64	1958 Oct 23 0321:04	Jupiter C	JunoI	RS/CC-49 HE	Beacon 1	Beacon	-	-	CC	LC5	-	-	100?	-	-
1958-S253	2436513.53	1958 Nov 6 0043	Redstone	-	CC-57 SI	R&D	-	Pneumatic system, engine	-	CC	LC6	-	-	90?	259	-
1959-S05	2436588.34	1959 Jan 19 2013	Redstone	-	CC-1010	Engineer-User Test 1	46FA 333Btn2 Bat A?	-	-	WS	ALA3	-	-	90?	93	-
1959-S425	2436616.21	1959 Feb 16 1700	Redstone	-	CC-1011	Engineer-User Test 2	46FA 333Btn2 Bat B?	-	-	WS	ALA3	-	-	90?	116	-
1959-S22	2436637.50	1959 Mar 10	Redstone	-	CC-1016	Engineer-User Test 3	40FA?	-	-	WS	ALA3	-	-	90?	100	-
1959-S67	2436700.50	1959 May 12	Redstone	-	CC-1013	Engineer-User Test 4	40FA?	-	-	WS	ALA3	-	-	90?	116	-
1959-S121	2436771.67	1959 Jul 22 0402	Redstone	-	CC-2003	Engineer-User Test 5	Sandia RV	-	-	CC	LC26A	-	-	90?	321	-
1959-S134	2436785.59	1959 Aug 5 0205	Redstone	-	CC-2004	Engineer-User Test 6	Sandia RV	-	-	CC	LC26A	-	-	90?	319	-
1959-S178	2436829.50	1959 Sep 18	Redstone	-	CC-1018	Engineer-User Test 7	-	-	-	WS	ALA3	-	-	90?	134	-
1960-S19	2436959.50	1960 Jan 26	Redstone	-	CC-2011	Engineer-User Test 8	40FA Bat B	RV/T-1 Capsule	-	WS	ALA3	-	-	88	127	-
1960-S51	2437009.24	1960 Mar 15 1744:07	Redstone	-	CC-2014	Engineer-User Test 9	40FA Bat A	RV/T-1 Capsule	-	WS	ALA3	-	-	90?	263	-
1960-S58	2437015.56	1960 Mar 22 0122	Redstone	-	CC-2020	Engineer-User Test 10	-	-	-	CC	LC6	-	-	90?	322	-
1960-S75	2437044.44	1960 Apr 19 2230?	Redstone	-	CC-2021	Engineer-User Test 11	46FA Bat A	RV/T-1 Capsule	-	WS	ALA3	-	-	90?	104	-
1960-S117	2437087.50	1960 Jun 2	Redstone	-	CC-2022	Engineer-User Test 12	46FA Bat B	RV/T-1 Capsule	-	WS	ALA3	-	-	75?	174	-
1960-S165	2437121.50	1960 Jul 6	Redstone	-	CC-1019	Engineer-User Test 13?	209FA Bat A	-	-	WS?	-	-	-	90?	328	-
1960-A196	2437156.56	1960 Aug 10 0131	Redstone	-	CC-2023	Field Suitability Test 1	-	-	-	CC	LC6	-	-	50?	204	-
1960-S309	2437213.66	1960 Oct 6 0344	Redstone	-	CC-2037	Field Suitability Test 2	-	-	-	CC	LC6	-	-	90?	322	-
1960-A271	2437260.08	1960 Nov 21 1400	Redstone MRLV	-	MRLV-1	MR-1	-	-	-	CC	LC5	-	-	0	0	-
1960-S415	2437288.18	1960 Dec 19 1615	Redstone MRLV	-	MRLV-3	MR-1A	-	-	-	CC	LC5	-	-	210	381	-
1961-S24	2437321.59	1961 Jan 22 0204	Redstone	-	CC-2038	Field Suitability Test 3	-	-	-	CC	LC6	-	-	90?	322	-
1961-S31	2437331.20	1961 Jan 31 1654:51	Redstone MRLV	-	MRLV-2	MR-2	-	-	-	CC	LC5	-	-	251	667	-
1961-S77	2437367.60	1961 Mar 9 0230	Redstone	-	CC-2040	Field Suitability Test 4	-	-	-	CC	LC6	-	-	90?	322	-
1961-S87	2437383.23	1961 Mar 24 1730	Redstone MRLV	-	MRLV-5	MR-BD	-	-	-	CC	LC5	-	-	181	494	-
1961-S135	2437425.11	1961 May 5 1434:13	Redstone MRLV	-	MRLV-7	MR-3	-	-	-	CC	LC5	-	-	187	485	-
1961-S152	2437437.58	1961 May 18 0200	Redstone	-	CC-2042	Field Suitability Test 5	-	-	-	CC	LC6	-	-	90?	322	-
1961-S190	2437477.60	1961 Jun 27 0220	Redstone	-	CC-2043	Field Suitability Test 6	-	-	-	CC	LC6	-	-	90?	322	-
1961-S202	2437486.50	1961 Jul 6	Redstone	-	CC-1005	Annual Service Practice	46FA Bat A	-	-	WS?	-	-	-	90?	112	-
1961-S216	2437502.01	1961 Jul 21 1220:01	Redstone MRLV	-	MRLV-8	MR-4	-	-	-	CC	LC5	-	-	189	482	-
1961-S225	2437526.50	1961 Aug 15	Redstone	-	CC-1009	Annual Service Practice	46FA Bat B	-	-	WS	ALA3	-	-	90?	-	-
1961-S265	2437563.50	1961 Sep 21	Redstone	-	CC-1006	Annual Service Practice	40FA Bat B	-	-	WS?	-	-	-	90?	-	-
1961-S315	2437598.50	1961 Oct 26	Redstone	-	CC-1012	Annual Service Practice	-	-	-	WS?	-	-	-	90?	-	-
1961-S397	2437638.50	1961 Dec 5	Redstone	-	CC-1008	INH-19 target	209FA Bat B	Operation HARDNOSE	-	WS	ZURF	-	-	90?	-	-
1962-S149	2437841.50	1962 Jun 26	Redstone	-	CC-1014	Annual Service Practice	46FA Bat B	-	-	WS	-	-	-	90?	130	-
1962-S214	2437862.50	1962 Jul 17	Redstone	-	CC-1017	Annual Service Practice	46FA Bat A	-	-	WS?	-	-	-	90?	-	-
1962-S273	2437883.50	1962 Aug 7	Redstone	-	CC-1007	Annual Service Practice	40FA Bat A	-	-	WS?	-	-	-	90?	-	-
1962-S274	2437906.50	1962 Aug 30	Redstone	-	CC-1015	Annual Service Practice	40FA Bat B	-	-	WS?	-	-	-	90?	-	-
1963-S379	2438246.50	1963 Aug 5	Redstone	-	CC-2033	Annual Service Practice	333A Btn2 Bat B	-	-	WS?	-	-	-	90?	130?	-
1963-S397	2438260.50	1963 Aug 19	Redstone	-	CC-2008	Annual Service Practice	333A Btn2 Bat B	-	-	WS?	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S438	2438282.50	1963 Sep 10	Redstone	-	CC-2015	Annual Service Practice	333A Btn1 Bat B	-	-	WS	-	-	-	90?	130?	-
1963-S449	2438295.50	1963 Sep 23	Redstone	-	CC-2044	ATBM target	333A Btn1 Bat A	-	-	WS	ALA3	-	-	90?	-	-
1963-S479	2438307.50	1963 Oct 5	Redstone	-	CC-2005	ATBM-11 target	-	-	-	WS?	-	-	-	90?	-	-
1965-A191	2439095.56	1965 Dec 1 0128:00	Redstone	-	CC-2036/DAT-01	DAT-371 Target	-	-	-	SNI	-	-	-	8	-	-
1966-S658	2439458.01	1966 Nov 28 1215	SPARTA	-	CC-2013?/SV-1	SPARTA SV-1	-	-	-	WOO	LA8	-	-	90?	-	-
1966-S683	2439472.99	1966 Dec 13 1150	SPARTA	-	CC-2034/SV-2	SPARTA SV-2	-	-	-	WOO	LA8	-	-	90?	-	-
1967-S225	2439600.46	1967 Apr 19 2307	SPARTA	-	CC-2027?/SV-3	SPARTA SV-3	-	-	-	WOO	LA8	-	-	90?	-	-
1967-S332	2439676.46	1967 Jul 4 2307	SPARTA	-	CC-2032/SV-4	SPARTA SV-4	-	CC-2018 thrust unit	-	WOO	LA8	-	-	90?	-	-
1967-S356	2439696.20	1967 Jul 24 1643	SPARTA	-	CC-2009/SV-5	SPARTA SV-5	-	-	-	WOO	LA8	-	-	90?	-	-
1967-S390	2439720.32	1967 Aug 17 1946	SPARTA	-	CC-2039/SV-6	SPARTA SV-6	-	-	-	WOO	LA8	-	-	90?	-	-
1967-S438	2439749.18	1967 Sep 15 1617	SPARTA	-	CC-2012/SV-7	SPARTA SV-7	-	-	-	WOO	LA8	-	-	91	-	-
1967-S487	2439775.18	1967 Oct 11 1622	SPARTA	-	CC-2030/SV-8	SPARTA SV-8	-	-	-	WOO	LA8	-	-	137	-	-
1967-S513	2439795.05	1967 Oct 31 1314	SPARTA	-	CC-2041/SV-9	SPARTA SV-9	-	-	-	WOO	LA8	-	-	111	-	-
1967-118	2439823.70	1967 Nov 29 0449	SPARTA	-	CC-2029/SV-10	WRESAT	WRESAT	-	-	WOO	LA8	-	-	1254	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A334	2434610.11	1953 Aug 20 1437	Redstone	-	RS-1 XH?	0.000	ABMA	MF	U	-	Test	TM-X-64796	ABMA	-
1954-S01	2434770.14	1954 Jan 27 1520	Redstone	-	RS-2 XU?	0.000	ABMA	MS	-	-	Test	TM-X-64796	ABMA	-
1954-A242	2434868.23	1954 May 5 1728	Redstone	-	RS-3 XN?	0.000	ABMA	MF	U	-	Test	TM-X-64796	ABMA	-
1954-S64	2434973.09	1954 Aug 18 1404	Redstone	-	RS-4 XT	0.000	ABMA	MS	-	-	Test	TM-X-64796	ABMA	-
1954-A641	2435064.26	1954 Nov 17 1812	Redstone	-	RS-6 XV	0.000	ABMA	MF	U	-	Test	TM-X-64796	ABMA	-
1955-A87	2435148.34	1955 Feb 9 2015	Redstone	-	RS-8 XL	0.000	ABMA	MS	-	-	Test	TM-X-64796	ABMA	-
1955-S31	2435217.79	1955 Apr 20 0651	Redstone	-	RS-9 XE	0.000	ABMA	MS	-	-	Test	TM-X-64796	ABMA	-
1955-S39	2435252.68	1955 May 25 0424	Redstone	-	RS-10 HX?	0.000	ABMA	MS	-	-	Test	TM-X-64796	ABMA	-
1955-S70	2435350.51	1955 Aug 31 0011	Redstone	-	RS-7 XI	0.000	ABMA	MF	U	-	Test	TM-X-64796	ABMA	-
1955-A472	2435372.74	1955 Sep 22 0551	Jupiter A	-	RS-11 HH?	0.000	ABMA	MF	U	-	Test	Jupiter	-	-
1955-S106	2435447.53	1955 Dec 6 0046	Jupiter A	-	RS-12 HU?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S19	2435547.52	1956 Mar 15 0036	Jupiter A	-	RS-18 HL	0.000	ABMA	MF	U	-	Test	Jupiter	-	-
1956-S31	2435609.68	1956 May 16 0421	Jupiter A	-	RS-19 HE	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S55	2435673.86	1956 Jul 19 0845	Jupiter A	-	CC-13 HN?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S71	2435693.85	1956 Aug 8 0825	Jupiter A	-	RS-20 UX?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S80	2435736.78	1956 Sep 20 0645	Jupiter C	-	RS-27 UI	0.000	ABMA	TS	-	-	Reentry Test	Jupiter	-	-
1956-S86	2435764.88	1956 Oct 18 0905	Jupiter A	-	CC-14 HT	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-A106	2435777.59	1956 Oct 31 0204	Jupiter A	-	RS-25 US	0.000	ABMA	MF	U	-	Test	Jupiter	-	-
1956-S99	2435791.59	1956 Nov 14 0205	Jupiter A	-	RS-28 UL?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S105	2435807.06	1956 Nov 29 1323	Jupiter A	-	CC-15 HS	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1956-S110	2435826.60	1956 Dec 19 0230	Jupiter A	-	RS-22 UU?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S09	2435857.57	1957 Jan 19 0137	Jupiter A	-	CC-16 HV?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S17	2435911.84	1957 Mar 14 0812	Jupiter A	-	CC-32 NU?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S20	2435925.56	1957 Mar 28 0122	Jupiter A	-	CC-30 NX	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S33	2435973.83	1957 May 15 0755	Jupiter C	-	RS-34 NT	0.000	ABMA	TS	-	-	Reentry Test	Jupiter	-	-
1957-S45	2436015.96	1957 Jun 26 1109	Jupiter A	-	CC-31 NH	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S57	2436031.77	1957 Jul 12 0630	Jupiter A	-	CC-35 NS?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S67	2436045.68	1957 Jul 26 0417	Jupiter A	-	CC-37 NI?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-S78	2436058.79	1957 Aug 8 0659	Jupiter C	-	RS/CC-40 TX	0.000	ABMA	TS	-	-	Reentry Test	Jupiter	-	-
1957-S109	2436092.61	1957 Sep 11 0241	Jupiter A	-	CC-38 NL?	0.000	ABMA	MF	U	-	Test	Jupiter	-	-
1957-S116	2436114.31	1957 Oct 2 1929	Jupiter A	-	CC-39 NE	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1957-A127	2436142.70	1957 Oct 31 0452	Jupiter A	-	CC-41 TH?	0.000	ABMA	MF	U	-	Test	Jupiter	-	-
1957-S177	2436183.52	1957 Dec 11 0036	Jupiter A	-	CC-42 TU?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1958-S09	2436218.56	1958 Jan 15 0124	Jupiter A	-	CC-45 TS?	0.000	ABMA	MS	-	AFSWP/	Test	Jupiter	-	-
1958 ALP	2436235.66	1958 Feb 1 0347:56	Jupiter C	JunoI	RS-29 UE	0.014	ABMA	OS	-	G	Sat LEO A	JunoFam	-	-
1958-S22	2436246.54	1958 Feb 12 0054	Redstone	-	CC-46 TV?	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1958-S37	2436262.33	1958 Feb 27 1959	Redstone	-	CC-43 TN	0.000	ABMA	MS	-	-	Test	Jupiter	-	-
1958-F02	2436268.27	1958 Mar 5 1827:57	Jupiter C	JunoI	RS/CC-26 UV	0.005	ABMA	OF	S4I	G	Sat LEO A	JunoFam	-	S4 no burn
1958 GAM	2436289.23	1958 Mar 26 1738:03	Jupiter C	JunoI	RS-24 UT	0.014	ABMA	OS	-	G	Sat LEO A	JunoFam	-	-
1958-S63	2436340.50	1958 May 17 0005	Redstone	-	RS-1002	0.000	40FA	MS	-	-	OT	TM-X-64796	MTP-P&VE-P-62-8	-
1958-S77	2436357.70	1958 Jun 3 0450	Redstone	-	CC-1004	0.000	40FA	MS	-	-	OT	TM-X-64796	MTP-P&VE-P-62-8	-
1958-S83	2436366.58	1958 Jun 12 0159	Jupiter A	-	CC-54 ST	0.000	ABMA	MS	-	-	Test	TM-X-64796	Jupiter	-
1958-S88	2436379.65	1958 Jun 25 0336	Redstone	-	CC-48 TL?	0.000	ABMA	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1958 EPS	2436411.13	1958 Jul 26 1500:57	Jupiter C	JunoI	RS/CC-44 TT	0.017	ABMA	OS	-	G	Sat LEO A	JunoFam	-	-
1958-M10	2436416.91	1958 Aug 1 0947	Redstone	-	CC-50 SX	0.000	ABMA	MS	-	AFSWP/	Nuclear Test	TM-X-64796	Hansen	-
1958-A89	2436427.89	1958 Aug 12 0927	Redstone	-	CC-51 SH	0.000	ABMA	MS	-	AFSWP/	Nuclear Test	TM-X-64796	Hansen	-
1958-F11	2436439.76	1958 Aug 24 0617:22	Jupiter C	JunoI	RS/CC-47 HN	0.005	ABMA	OF	S1S*	G	Sat LEO A	JunoFam	-	S234 burn after collision
1958-S200	2436464.25	1958 Sep 17 1800	Redstone	-	CC-56 SV	0.000	ABMA	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1958-F18	2436499.64	1958 Oct 23 0321:04	Jupiter C	JunoI	RS/CC-49 HE	0.014	ABMA	OF	FS	G	Sat LEO O	JPL-FOM-59-10	-	Premature sep of S4/PL
1958-S253	2436513.53	1958 Nov 6 0043	Redstone	-	CC-57 SI	0.000	ABMA	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1959-S05	2436588.34	1959 Jan 19 2013	Redstone	-	CC-1010	0.000	46FA2	MS	-	-	OT	LawtonConst590119	MTP-P&VE-P-62-8	-
1959-S425	2436616.21	1959 Feb 16 1700	Redstone	-	CC-1011	0.000	46FA2	MF	U	-	OT	LawtonConst590216	MTP-P&VE-P-62-8	-
1959-S22	2436637.50	1959 Mar 10	Redstone	-	CC-1016	0.000	40FA?	MS	-	-	OT	MTP-P&VE-P-62-8	-	-
1959-S67	2436700.50	1959 May 12	Redstone	-	CC-1013	0.000	40FA?	MS	-	-	OT	MTP-P&VE-P-62-8	-	-
1959-S121	2436771.67	1959 Jul 22 0402	Redstone	-	CC-2003	0.000	ABMA	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1959-S134	2436785.59	1959 Aug 5 0205	Redstone	-	CC-2004	0.000	ABMA	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1959-S178	2436829.50	1959 Sep 18	Redstone	-	CC-1018	0.000	ABMA?	MS	-	-	OT	MTP-P&VE-P-62-8	-	-
1960-S19	2436959.50	1960 Jan 26	Redstone	-	CC-2011	0.000	40FA	MS	-	-	OT	MTP-P&VE-P-62-8	-	-
1960-S51	2437009.24	1960 Mar 15 1744:07	Redstone	-	CC-2014	0.000	40FA	MS	-	-	OT	WSMR-Archive	MTP-P&VE-P-62-8	-
1960-S58	2437015.56	1960 Mar 22 0122	Redstone	-	CC-2020	0.000	40FA?	MS	-	-	Test	TM-X-64796	MTP-P&VE-P-62-8	-
1960-S75	2437044.44	1960 Apr 19 2230?	Redstone	-	CC-2021	0.000	46FA2	MS	-	-	OT	WindAndSand600422	MyArmyRedstoneDays	ABMA
1960-S117	2437087.50	1960 Jun 2	Redstone	-	CC-2022	0.000	46FA2	MS	-	-	OT	MTP-P&VE-P-62-8	ABMA	-
1960-S165	2437121.50	1960 Jul 6	Redstone	-	CC-1019	0.000	209FA?	MS	-	-	OT	MTP-P&VE-P-62-8	-	R=180?
1960-A196	2437156.56	1960 Aug 10 0131	Redstone	-	CC-2023	0.000	ABMA	MF	U	-	Test	TM-X-64796	ETR-IDX-FY61	-
1960-S309	2437213.66	1960 Oct 6 0344	Redstone	-	CC-2037	0.000	ABMA	MS	-	-	Test	TM-X-64796	ETR-IDX-FY61	-
1960-A271	2437260.08	1960 Nov 21 1400	Redstone MRLV	-	MRLV-1	0.000	MSFC	TF	U	-	Test	TM-X-64796	KHR-1	-
1960-S415	2437288.18	1960 Dec 19 1615	Redstone MRLV	-	MRLV-3	0.000	MSFC	TS	-	-	Test	TM-X-64796	KHR-1	-
1961-S24	2437321.59	1961 Jan 22 0204	Redstone	-	CC-2038	0.000	ABMA	MS	-	-	Test	TM-X-64796	ETR-IDX-FY61	-
1961-S31	2437331.20	1961 Jan 31 1654:51	Redstone MRLV	-	MRLV-2	0.000	MSFC	TS	-	-	Test/Bio	SP-39	TM-X-64796	-
1961-S77	2437367.60	1961 Mar 9 0230	Redstone	-	CC-2040	0.000	ABMA	MS	-	-	Test	TM-X-64796	ETR-IDX-FY61	-
1961-S87	2437383.23	1961 Mar 24 1730	Redstone MRLV	-	MRLV-5	0.000	MSFC	TS	-	-	Test	TM-X-64796	KHR-1	-
1961-S135	2437425.11	1961 May 5 1434:13	Redstone MRLV	-	MRLV-7	0.000	MSFC	TS	-	-	Test/Bio	TM-X-64796	KHR-1	-
1961-S152	2437437.58	1961 May 18 0200	Redstone	-	CC-2042	0.000	ABMA	MS	-	-	Test	TM-X-64796	ETR-IDX-FY61	-
1961-S190	2437477.60	1961 Jun 27 0220	Redstone	-	CC-2043	0.000	ABMA	MS	-	-	Test	TM-X-64796	ETR-IDX-FY61	-
1961-S202	2437486.50	1961 Jul 6	Redstone	-	CC-1005	0.000	46FA2	MS	-	-	OT	ABMA	myarmyredstonedays.c	-
1961-S216	2437502.01	1961 Jul 21 1220:01	Redstone MRLV	-	MRLV-8	0.000	MSFC	TS	-	-	Test	TM-X-64796	KHR-1	-
1961-S225	2437526.50	1961 Aug 15	Redstone	-	CC-1009	0.000	46FA2	MS	-	-	OT	wsmr-history.org	ABMA	-
1961-S265	2437563.50	1961 Sep 21	Redstone	-	CC-1006	0.000	40FA	MS	-	-	OT	SantaFeNMxican610921	ABMA	-
1961-S315	2437598.50	1961 Oct 26	Redstone	-	CC-1012	0.000	40FA	MS	-	-	OT	ElPasoHerPost611026	JRyan-pc	-
1961-S397	2437638.50	1961 Dec 5	Redstone	-	CC-1008	0.000	209FA	MS	-	-	OT	wsmr-history.org	ABMA [Or Dec 15]	-
1962-S149	2437841.50	1962 Jun 26	Redstone	-	CC-1014	0.000	46FA2	MS	-	-	OT	ABMA	-	-
1962-S214	2437862.50	1962 Jul 17	Redstone	-	CC-1017	0.000	46FA2	MS	-	-	OT	ElPasoHerPost620717	ABMA	-
1962-S273	2437883.50	1962 Aug 7	Redstone	-	CC-1007	0.000	40FA	MS	-	-	OT	ElPasoHerPost620808	ABMA	-
1962-S274	2437906.50	1962 Aug 30	Redstone	-	CC-1015	0.000	40FA	MS	-	-	OT	BatteryBDoc	ABMA	-
1963-S379	2438246.50	1963 Aug 5	Redstone	-	CC-2033	0.000	40FA	MS	-	-	OT	ABMA	-	-
1963-S397	2438260.50	1963 Aug 19	Redstone	-	CC-2008	0.000	40FA	MS	-	-	OT	ABMA	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S438	2438282.50	1963 Sep 10	Redstone	-	CC-2015	0.000	4OFA	MS	-	-	OT	ABMA	-	-
1963-S449	2438295.50	1963 Sep 23	Redstone	-	CC-2044	0.000	4OFA	MS	-	-	OT	ABMA	MR630930-18	-
1963-S479	2438307.50	1963 Oct 5	Redstone	-	CC-2005	0.000	MICOM	MS	-	-	OT	ABMA	-	-
1965-A191	2439095.56	1965 Dec 1 0128:00	Redstone	-	CC-2036/DAT-01	0.000	ARPA	MS	-	-	Target	ARPA-TR-DAT-1-66	MICOM-AHS-143/MR6512	[or 0123Z]
1966-S658	2439458.01	1966 Nov 28 1215	SPARTA	-	CC-2013?/SV-1	0.000	MICOM	MF	U	-	Reentry Test	Henderson	FI670126-145	-
1966-S683	2439472.99	1966 Dec 13 1150	SPARTA	-	CC-2034/SV-2	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S225	2439600.46	1967 Apr 19 2307	SPARTA	-	CC-2027?/SV-3	0.000	MICOM	MS	-	-	Reentry Test	Henderson	SP-4008	[0837Apr20 - Henderson]
1967-S332	2439676.46	1967 Jul 4 2307	SPARTA	-	CC-2032/SV-4	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S356	2439696.20	1967 Jul 24 1643	SPARTA	-	CC-2009/SV-5	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S390	2439720.32	1967 Aug 17 1946	SPARTA	-	CC-2039/SV-6	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S438	2439749.18	1967 Sep 15 1617	SPARTA	-	CC-2012/SV-7	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S487	2439775.18	1967 Oct 11 1622	SPARTA	-	CC-2030/SV-8	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-S513	2439795.05	1967 Oct 31 1314	SPARTA	-	CC-2041/SV-9	0.000	MICOM	MS	-	-	Reentry Test	Henderson	-	-
1967-118	2439823.70	1967 Nov 29 0449	SPARTA	-	CC-2029/SV-10	0.073	MICOM/WRE	OS	-	G/OG	Sat LEO A	Henderson	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-A07	2460546.58	2024 Aug 24 0155	Rhumi	–	1	Mission Rhumi 2024	–	–	–	THIR	–	–	–	35	–	–

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-A07	2460546.58	2024 Aug 24 0155	Rhumi	-	1	0.000	SZI	AS	-	-	Test	hindustantimes.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A589	2439429.50	1966 Nov	Canopus 1	-	-	-	-	-	-	CELPA	-	-	-	40?	-	-
1967-A160	2439671.50	1967 Jul	Canopus 1	-	-	-	-	-	-	CELPA	-	-	-	40?	-	-
1967-S744	2439840.50	1967 Dec 16	Rigel	-	-	-	-	-	-	CELPA	-	-	-	295	-	-
1969-S272	2440327.50	1969 Apr 16	Canopus 2	-	-	-	-	-	-	CELAT	-	-	-	150?	-	-
1969-S498	2440476.67	1969 Sep 12 0406?	Rigel	-	No 2	-	-	-	-	CELPA	-	-	-	250?	-	-
1969-S571	2440517.50	1969 Oct 23	Canopus 2	-	-	-	-	-	-	CELPA?	-	-	-	150?	-	-
1969-S690	2440577.50	1969 Dec 22	Rigel	-	-	-	-	-	-	CELPA?	-	-	-	250?	-	-
1969-S691	2440577.50	1969 Dec 22	Castor (A)	-	CR-X1	Dummy St2	Ex.Navidad	-	-	CELPA	-	-	-	52	-	-
1969-S692	2440578.50	1969 Dec 23	Canopus 2	-	No 3	Bio-II	-	-	-	CELPA	-	-	-	70	-	-
1970-A151	2440939.50	1970 Dec 19	Castor (A)	-	CR-X2	Dummy St2	-	-	-	CELPA	-	-	-	45	-	-
1971-M28	2441260.50	1971 Nov 5	Canopus 2	-	-	-	-	-	-	CELPA	-	-	-	60	-	-
1972-S389	2441624.48	1972 Nov 2 2328	Rigel	-	EGANI/72	MPE Eu/Ba EXP 63	-	-	-	CELPA	-	-	-	240	-	-
1972-S393	2441626.48	1972 Nov 4 2327	Rigel	-	EGANI/72	MPE Eu/Ba EXP 64	-	-	-	CELPA	-	-	-	252	-	-
1972-S397	2441632.85	1972 Nov 11 0826	Rigel	-	EGANI/72	MPE Eu/Ba EXP 65	-	-	-	CELPA	-	-	-	260	-	-
1973-S396	2442005.48	1973 Nov 18 2334	Rigel	-	EGANI/73?	MPE?	-	-	-	CELPA	-	-	-	250	-	-
1973-S397	2442006.48	1973 Nov 19 2335	Rigel	-	EGANI/73?	MPE?	-	-	-	CELPA	-	-	-	260	-	-
1973-S401	2442009.49	1973 Nov 22 2339:00	Castor (A)	-	CR-01	EGANI/73 Ba release	-	-	-	CELPA	-	-	-	406	-	-
1975-S290	2442685.50	1975 Sep 30	Castor (A)	-	CR-02	EGANI/75 Ba release	-	-	-	VCM	-	-	-	400?	-	-
1975-S297	2442688.82	1975 Oct 3 0744	Castor (A)	-	CR-03	EGANI/75 Ba release	-	-	-	VCM	-	-	-	400?	-	-
1977-S419	2443324.50	1977 Jul	Tauro	-	01	-	-	-	-	CELPA	-	-	-	100?	-	-
1979-S300	2443906.50	1979 Feb 2	Tauro	-	02	-	-	-	-	CELPA	-	-	-	100?	-	-
1979-S299	2443954.49	1979 Mar 21 2349	Castor (A)	-	CR-04	Spread F	-	-	-	CHI	-	-	-	250?	-	-
1979-S101	2443955.50	1979 Mar 22 2353	Castor (A)	-	CR-05	Spread F	-	-	-	CHI	-	-	-	268	-	-
1981-S250	2444949.25	1981 Dec 10 1800	Tauro	-	09	Earth Resources Camera	-	-	-	CELPA	-	-	-	131	-	-
2013-A27	2456644.95	2013 Dec 18 1042	Centenario	-	-	Experiencia Centenario	-	-	-	CELPA	-	-	-	49?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A589	2439429.50	1966 Nov	Canopus 1	-	-	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1967-A160	2439671.50	1967 Jul	Canopus 1	-	-	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1967-S744	2439840.50	1967 Dec 16	Rigel	-	-	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1969-S272	2440327.50	1969 Apr 16	Canopus 2	-	-	0.000	IIAE	SS	-	IIAE/	Test	Serra/COSPAR	-	-
1969-S498	2440476.67	1969 Sep 12 0406?	Rigel	-	No 2	0.000	IIAE	SS	-	IIAE/	Test	SP-4014	Serra/COSPAR	-
1969-S571	2440517.50	1969 Oct 23	Canopus 2	-	-	0.000	IIAE	SS	-	IIAE/	Test	Serra/COSPAR	-	-
1969-S690	2440577.50	1969 Dec 22	Rigel	-	-	0.000	IIAE	SS	-	IIAE/	Test	Serra/COSPAR	-	-
1969-S691	2440577.50	1969 Dec 22	Castor (A)	-	CR-X1	0.000	IIAE	SS	-	IIAE/	Test	Serra/COSPAR	-	-
1969-S692	2440578.50	1969 Dec 23	Canopus 2	-	No 3	0.000	IIAE	SS	-	IIAE/	Test/Bio	Serra/COSPAR	DeLeon	-
1970-A151	2440939.50	1970 Dec 19	Castor (A)	-	CR-X2	0.000	IIAE	SS	-	IIAE/	Test	jpcoheteria.com.ar	-	-
1971-M28	2441260.50	1971 Nov 5	Canopus 2	-	-	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1972-S389	2441624.48	1972 Nov 2 2328	Rigel	-	EGANI/72	0.000	IIAE	SS	-	MPE/Haerendel	Aeron/Ionos	SR14,233	WDCRF	-
1972-S393	2441626.48	1972 Nov 4 2327	Rigel	-	EGANI/72	0.000	IIAE	SS	-	MPE/Haerendel	Aeron/Ionos	SR14,233	WDCRF	-
1972-S397	2441632.85	1972 Nov 11 0826	Rigel	-	EGANI/72	0.000	IIAE	SS	-	MPE/Haerendel	Ionos	SR14,233	WDCRF	-
1973-S396	2442005.48	1973 Nov 18 2334	Rigel	-	EGANI/73?	0.000	IIAE	SS	-	MPE/IIAE/	Ionos	WDCRF	-	-
1973-S397	2442006.48	1973 Nov 19 2335	Rigel	-	EGANI/73?	0.000	IIAE	SS	-	MPE/IIAE/	Ionos	WDCRF	-	-
1973-S401	2442009.49	1973 Nov 22 2339:00	Castor (A)	-	CR-01	0.000	IIAE	SS	-	MPE/	Ionos	WDCRF	-	-
1975-S290	2442685.50	1975 Sep 30	Castor (A)	-	CR-02	0.000	IIAE	SS	-	MPE/	Ionos	Serra	-	-
1975-S297	2442688.82	1975 Oct 3 0744	Castor (A)	-	CR-03	0.000	IIAE	SS	-	MPE/	Ionos	Serra	-	-
1977-S419	2443324.50	1977 Jul	Tauro	-	01	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1979-S300	2443906.50	1979 Feb 2	Tauro	-	02	0.000	IIAE	SS	-	IIAE/	Test	DeLeon	-	-
1979-S299	2443954.49	1979 Mar 21 2349	Castor (A)	-	CR-04	0.000	DFVLR/IIAE	SS	-	MPE/	Ba release	ESA-SP152	Serra	Payload fail
1979-S101	2443955.50	1979 Mar 22 2353	Castor (A)	-	CR-05	0.000	DFVLR/IIAE	SS	-	MPE/	Ba release	ESA-SP152	Serra	-
1981-S250	2444949.25	1981 Dec 10 1800	Tauro	-	09	0.000	IIAE	SS	-	IIAE/	Earth Imaging	frlr.utn.edu.ar	DeLeon	-
2013-A27	2456644.95	2013 Dec 18 1042	Centenario	-	-	0.000	IIAE	SS	-	IIAE/	Micrograv/Tech	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W08	2440224.12	1969 Jan 2 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-A03	2440224.13	1969 Jan 2 1500:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	37	-	-
1969-W09	2440224.24	1969 Jan 2 1746:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-A04	2440224.26	1969 Jan 2 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	41	-	-
1969-W10	2440225.11	1969 Jan 3 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1969-W11	2440225.11	1969 Jan 3 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1969-W12	2440225.12	1969 Jan 3 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W13	2440225.17	1969 Jan 3 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1969-A05	2440225.27	1969 Jan 3 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1969-W14	2440225.29	1969 Jan 3 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W15	2440225.35	1969 Jan 3 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1969-W16	2440225.37	1969 Jan 3 2049:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W17	2440225.46	1969 Jan 3 2302:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W22	2440228.11	1969 Jan 6 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1969-W23	2440228.13	1969 Jan 6 1500:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W24	2440228.14	1969 Jan 6 1522:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W25	2440228.18	1969 Jan 6 1614:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1969-W26	2440228.29	1969 Jan 6 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W27	2440228.37	1969 Jan 6 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1969-W28	2440229.18	1969 Jan 7 1619:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-Y13	2440229.23	1969 Jan 7 1737:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	83	-	-
1969-W30	2440229.28	1969 Jan 7 1848:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	62	-	-
1969-W32	2440230.10	1969 Jan 8 1429:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	62	-	-
1969-W33	2440230.11	1969 Jan 8 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W34	2440230.15	1969 Jan 8 1531:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	59	-	-
1969-W35	2440230.17	1969 Jan 8 1607:00	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	58	-	-
1969-W36	2440230.23	1969 Jan 8 1730:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	64	-	-
1969-A08	2440230.34	1969 Jan 8 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	34	-	-
1969-A10	2440231.14	1969 Jan 9 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	46	-	-
1969-W39	2440231.22	1969 Jan 9 1710:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	56	-	-
1969-A11	2440231.25	1969 Jan 9 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1969-W41	2440231.29	1969 Jan 9 1859:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	61	-	-
1969-W42	2440231.32	1969 Jan 9 1944:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-Y16	2440231.54	1969 Jan 10 0059:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	80	-	-
1969-A12	2440232.07	1969 Jan 10 1346:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1969-W43	2440232.11	1969 Jan 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1969-A13	2440232.12	1969 Jan 10 1454:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	47	-	-
1969-W44	2440232.12	1969 Jan 10 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	56	-	-
1969-W45	2440232.17	1969 Jan 10 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1969-W46	2440232.22	1969 Jan 10 1715:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	62	-	-
1969-W48	2440232.27	1969 Jan 10 1822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W49	2440232.27	1969 Jan 10 1829:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1969-W50	2440232.27	1969 Jan 10 1830:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	59	-	-
1969-W51	2440232.29	1969 Jan 10 1856:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1969-W52	2440232.32	1969 Jan 10 1936:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	61	-	-
1969-W53	2440232.34	1969 Jan 10 2004:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W54	2440232.34	1969 Jan 10 2011:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1969-W55	2440232.35	1969 Jan 10 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	65	-	-
1969-W56	2440232.36	1969 Jan 10 2041:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W58	2440235.12	1969 Jan 13 1452:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W59	2440235.13	1969 Jan 13 1511:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	54	-	-
1969-W60	2440235.19	1969 Jan 13 1640:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	53	-	-
1969-W61	2440235.23	1969 Jan 13 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1969-W63	2440235.29	1969 Jan 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W64	2440235.30	1969 Jan 13 1909:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	58	-	-
1969-W65	2440235.33	1969 Jan 13 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1969-A14	2440236.12	1969 Jan 14 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	47	-	-
1969-W66	2440236.12	1969 Jan 14 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W67	2440236.13	1969 Jan 14 1504:59	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	68	-	-
1969-W68	2440236.15	1969 Jan 14 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1969-W69	2440236.19	1969 Jan 14 1630:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	73	-	-
1969-W70	2440236.21	1969 Jan 14 1704:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W72	2440237.11	1969 Jan 15 1440:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	54	-	-
1969-W73	2440237.11	1969 Jan 15 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1969-W74	2440237.12	1969 Jan 15 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1969-W75	2440237.17	1969 Jan 15 1602:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1969-A15	2440237.19	1969 Jan 15 1634:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CLBI	-	-	-	43	-	-
1969-W76	2440237.19	1969 Jan 15 1638:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W77	2440237.20	1969 Jan 15 1647:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1969-A16	2440237.23	1969 Jan 15 1732:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	41	-	-
1969-A17	2440237.25	1969 Jan 15 1807:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	47	-	-
1969-W79	2440237.33	1969 Jan 15 1958:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1969-W80	2440237.33	1969 Jan 15 2000:00	Rocketsonde	-	-	Starute	-	-	-	GRLY	-	-	-	55	-	-
1969-W81	2440237.34	1969 Jan 15 2010:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	56	-	-
1969-W82	2440237.44	1969 Jan 15 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W83	2440238.12	1969 Jan 16 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W84	2440238.36	1969 Jan 16 2036:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W85	2440238.49	1969 Jan 16 2345:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	59	-	-
1969-W86	2440238.53	1969 Jan 17 0040:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	60	-	-
1969-W87	2440238.65	1969 Jan 17 0334:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1969-W88	2440238.77	1969 Jan 17 0634:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-W89	2440238.79	1969 Jan 17 0655:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W90	2440238.80	1969 Jan 17 0714:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-A20	2440239.09	1969 Jan 17 1412:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	32	-	-
1969-W91	2440239.11	1969 Jan 17 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-A21	2440239.12	1969 Jan 17 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	49	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W92	2440239.17	1969 Jan 17 1600:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W93	2440239.19	1969 Jan 17 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W94	2440239.23	1969 Jan 17 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W95	2440239.27	1969 Jan 17 1835:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1969-W97	2440239.33	1969 Jan 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1969-W98	2440239.37	1969 Jan 17 2058:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1969-A23	2440239.42	1969 Jan 17 2206:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	48	-	-
1969-W99	2440239.45	1969 Jan 17 2241:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W102	2440242.11	1969 Jan 20 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1969-A24	2440242.12	1969 Jan 20 1455:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	48	-	-
1969-W103	2440242.15	1969 Jan 20 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W104	2440242.16	1969 Jan 20 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-A25	2440242.25	1969 Jan 20 1802:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	42	-	-
1969-W106	2440242.29	1969 Jan 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W108	2440242.35	1969 Jan 20 2025:00	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	53	-	-
1969-W110	2440242.38	1969 Jan 20 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W113	2440243.21	1969 Jan 21 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W114	2440243.25	1969 Jan 21 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	50	-	-
1969-W115	2440243.29	1969 Jan 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-A27	2440243.38	1969 Jan 21 2102:59	Rocketsonde	-	-	Starute	-	-	-	GRLY	-	-	-	47	-	-
1969-A28	2440243.41	1969 Jan 21 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1969-W120	2440244.10	1969 Jan 22 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-W121	2440244.11	1969 Jan 22 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W122	2440244.12	1969 Jan 22 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W123	2440244.17	1969 Jan 22 1559:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	57	-	-
1969-W125	2440244.24	1969 Jan 22 1740:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W126	2440244.31	1969 Jan 22 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W127	2440244.33	1969 Jan 22 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	69	-	-
1969-W130	2440245.12	1969 Jan 23 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-A29	2440245.27	1969 Jan 23 1830:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	26	-	-
1969-W132	2440245.31	1969 Jan 23 1927:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-A30	2440245.40	1969 Jan 23 2130:00	Rocketsonde	-	-	Starute	-	-	-	GRLY	-	-	-	27	-	-
1969-W133	2440245.49	1969 Jan 23 2345:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	61	-	-
1969-W134	2440245.61	1969 Jan 24 0233:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	60	-	-
1969-W136	2440246.10	1969 Jan 24 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W137	2440246.11	1969 Jan 24 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-A31	2440246.13	1969 Jan 24 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	44	-	-
1969-W138	2440246.15	1969 Jan 24 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1969-W140	2440246.25	1969 Jan 24 1800:00	Rocketsonde	-	-	Starute	-	-	-	WS	-	-	-	70	-	-
1969-A32	2440246.26	1969 Jan 24 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	45	-	-
1969-A33	2440246.28	1969 Jan 24 1842:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	45	-	-
1969-W141	2440246.33	1969 Jan 24 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	69	-	-
1969-W142	2440246.34	1969 Jan 24 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W143	2440246.36	1969 Jan 24 2037:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	55	-	-
1969-W144	2440249.11	1969 Jan 27 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1969-W145	2440249.12	1969 Jan 27 1457:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W146	2440249.12	1969 Jan 27 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	51	-	-
1969-W147	2440249.24	1969 Jan 27 1748:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1969-W148	2440249.29	1969 Jan 27 1903:59	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	61	-	-
1969-W149	2440249.33	1969 Jan 27 2001:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W150	2440249.37	1969 Jan 27 2055:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W153	2440250.12	1969 Jan 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W154	2440250.21	1969 Jan 28 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-A36	2440250.40	1969 Jan 28 2133:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	49	-	-
1969-W156	2440251.11	1969 Jan 29 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1969-W157	2440251.12	1969 Jan 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W158	2440251.14	1969 Jan 29 1515:59	Rocketsonde	-	-	Starute	-	-	-	WS	-	-	-	68	-	-
1969-W159	2440251.17	1969 Jan 29 1559:59	Rocketsonde	-	-	Chaff	-	-	-	SHER	-	-	-	64	-	-
1969-W161	2440251.25	1969 Jan 29 1800:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W162	2440251.28	1969 Jan 29 1837:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1969-W163	2440251.29	1969 Jan 29 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	53	-	-
1969-W164	2440251.31	1969 Jan 29 1931:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	65	-	-
1969-W165	2440251.32	1969 Jan 29 1944:59	Rocketsonde	-	-	Starute	-	-	-	GRLY	-	-	-	52	-	-
1969-W166	2440251.33	1969 Jan 29 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W167	2440251.34	1969 Jan 29 2012:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	58	-	-
1969-W168	2440251.36	1969 Jan 29 2044:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	64	-	-
1969-W169	2440251.36	1969 Jan 29 2045:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1969-W170	2440251.36	1969 Jan 29 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	68	-	-
1969-W171	2440251.66	1969 Jan 30 0345:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	65	-	-
1969-A38	2440252.12	1969 Jan 30 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	49	-	-
1969-W173	2440252.35	1969 Jan 30 2030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W175	2440252.42	1969 Jan 30 2204:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W178	2440252.67	1969 Jan 31 0359:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1969-W179	2440253.11	1969 Jan 31 1435:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1969-W180	2440253.11	1969 Jan 31 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W181	2440253.14	1969 Jan 31 1518:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-W182	2440253.25	1969 Jan 31 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1969-W184	2440253.27	1969 Jan 31 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1969-W185	2440253.33	1969 Jan 31 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	68	-	-
1969-W186	2440253.37	1969 Jan 31 2047:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1969-W187	2440253.49	1969 Jan 31 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W188	2440254.33	1969 Feb 1 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	69	-	-
1969-W189	2440255.35	1969 Feb 2 2017:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	69	-	-
1969-W190	2440256.09	1969 Feb 3 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-W191	2440256.11	1969 Feb 3 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W192	2440256.12	1969 Feb 3 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	61	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W193	2440256.22	1969 Feb 3 1715:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1969-W194	2440256.29	1969 Feb 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1969-W195	2440256.33	1969 Feb 3 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W196	2440256.36	1969 Feb 3 2034:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W197	2440256.38	1969 Feb 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1969-W198	2440256.45	1969 Feb 3 2245:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1969-A41	2440257.12	1969 Feb 4 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	39	-	-
1969-W199	2440257.29	1969 Feb 4 1855:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1969-W200	2440257.29	1969 Feb 4 1901:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	60	-	-
1969-W201	2440257.33	1969 Feb 4 1949:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	51	-	-
1969-W202	2440257.33	1969 Feb 4 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	71	-	-
1969-W203	2440257.36	1969 Feb 4 2045:00	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	61	-	-
1969-W204	2440257.45	1969 Feb 4 2252:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	56	-	-
1969-W205	2440258.07	1969 Feb 5 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1969-W206	2440258.11	1969 Feb 5 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W207	2440258.12	1969 Feb 5 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W208	2440258.24	1969 Feb 5 1751:00	Rocketsonde	-	-	-	-	-	-	PRIM	-	-	-	65	-	-
1969-W209	2440258.29	1969 Feb 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1969-W210	2440258.30	1969 Feb 5 1904:59	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	56	-	-
1969-W211	2440258.34	1969 Feb 5 2015:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	67	-	-
1969-W212	2440258.38	1969 Feb 5 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W213	2440258.40	1969 Feb 5 2141:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W214	2440258.43	1969 Feb 5 2219:59	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	65	-	-
1969-W216	2440259.11	1969 Feb 6 1438:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	57	-	-
1969-W218	2440259.29	1969 Feb 6 1859:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1969-W219	2440259.33	1969 Feb 6 1953:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1969-W220	2440259.33	1969 Feb 6 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	58	-	-
1969-W221	2440259.41	1969 Feb 6 2156:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1969-W222	2440260.08	1969 Feb 7 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	66	-	-
1969-W223	2440260.12	1969 Feb 7 1447:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W224	2440260.12	1969 Feb 7 1455:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1969-W225	2440260.17	1969 Feb 7 1610:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W226	2440260.34	1969 Feb 7 2013:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	67	-	-
1969-W227	2440260.38	1969 Feb 7 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1969-W228	2440260.40	1969 Feb 7 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W229	2440260.47	1969 Feb 7 2315:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W231	2440263.09	1969 Feb 10 1408:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1969-W232	2440263.11	1969 Feb 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W233	2440263.12	1969 Feb 10 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W234	2440263.29	1969 Feb 10 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	68	-	-
1969-W235	2440263.31	1969 Feb 10 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W236	2440263.33	1969 Feb 10 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1969-W237	2440263.34	1969 Feb 10 2007:00	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	57	-	-
1969-W238	2440263.36	1969 Feb 10 2040:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W239	2440264.23	1969 Feb 11 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W240	2440264.28	1969 Feb 11 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	54	-	-
1969-W241	2440264.31	1969 Feb 11 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W242	2440264.52	1969 Feb 12 0030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1969-W243	2440265.09	1969 Feb 12 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-W244	2440265.11	1969 Feb 12 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W245	2440265.14	1969 Feb 12 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CLBI	-	-	-	67	-	-
1969-W246	2440265.17	1969 Feb 12 1600:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W247	2440265.19	1969 Feb 12 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W248	2440265.27	1969 Feb 12 1829:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W249	2440265.28	1969 Feb 12 1838:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	58	-	-
1969-W250	2440265.38	1969 Feb 12 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	62	-	-
1969-W251	2440265.38	1969 Feb 12 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1969-W252	2440265.40	1969 Feb 12 2142:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W253	2440266.12	1969 Feb 13 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W254	2440266.35	1969 Feb 13 2020:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W255	2440266.36	1969 Feb 13 2036:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	59	-	-
1969-W256	2440266.37	1969 Feb 13 2059:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	53	-	-
1969-W257	2440266.39	1969 Feb 13 2121:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	50	-	-
1969-W258	2440266.62	1969 Feb 14 0300:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W259	2440266.66	1969 Feb 14 0349:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1969-W260	2440266.67	1969 Feb 14 0409:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1969-W261	2440267.14	1969 Feb 14 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W262	2440267.19	1969 Feb 14 1632:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1969-W263	2440267.21	1969 Feb 14 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W264	2440267.25	1969 Feb 14 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-A44	2440267.27	1969 Feb 14 1835:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	47	-	-
1969-W265	2440267.28	1969 Feb 14 1837:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1969-W266	2440267.29	1969 Feb 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1969-W267	2440267.33	1969 Feb 14 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	65	-	-
1969-W268	2440267.38	1969 Feb 14 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W270	2440270.11	1969 Feb 17 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W271	2440270.15	1969 Feb 17 1538:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-W272	2440270.17	1969 Feb 17 1602:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W273	2440270.21	1969 Feb 17 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W274	2440270.29	1969 Feb 17 1856:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W275	2440270.29	1969 Feb 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1969-W276	2440270.36	1969 Feb 17 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1969-W277	2440270.37	1969 Feb 17 2055:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1969-W278	2440271.21	1969 Feb 18 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1969-W279	2440271.39	1969 Feb 18 2124:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	61	-	-
1969-W281	2440272.07	1969 Feb 19 1334:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W282	2440272.11	1969 Feb 19 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1969-W283	2440272.15	1969 Feb 19 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W284	2440272.19	1969 Feb 19 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W285	2440272.19	1969 Feb 19 1640:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W286	2440272.26	1969 Feb 19 1819:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	55	-	-
1969-W287	2440272.27	1969 Feb 19 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W288	2440272.28	1969 Feb 19 1838:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1969-W290	2440273.17	1969 Feb 20 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	63	-	-
1969-W291	2440273.29	1969 Feb 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W292	2440273.30	1969 Feb 20 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W293	2440273.33	1969 Feb 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1969-W294	2440273.35	1969 Feb 20 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	72	-	-
1969-W295	2440273.40	1969 Feb 20 2137:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	58	-	-
1969-W297	2440274.25	1969 Feb 21 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1969-W298	2440277.11	1969 Feb 24 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W299	2440277.12	1969 Feb 24 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W300	2440277.25	1969 Feb 24 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1969-W301	2440277.29	1969 Feb 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1969-W302	2440277.34	1969 Feb 24 2015:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	72	-	-
1969-W303	2440277.37	1969 Feb 24 2047:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W304	2440278.13	1969 Feb 25 1501:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W305	2440278.40	1969 Feb 25 2129:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	52	-	-
1969-W306	2440279.15	1969 Feb 26 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W307	2440279.22	1969 Feb 26 1710:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1969-W308	2440279.25	1969 Feb 26 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W309	2440279.33	1969 Feb 26 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	66	-	-
1969-W311	2440280.12	1969 Feb 27 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W312	2440280.32	1969 Feb 27 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W313	2440280.41	1969 Feb 27 2145:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	62	-	-
1969-W314	2440281.11	1969 Feb 28 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1969-W315	2440281.12	1969 Feb 28 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W316	2440281.12	1969 Feb 28 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W317	2440281.25	1969 Feb 28 1804:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1969-W318	2440281.31	1969 Feb 28 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W319	2440281.31	1969 Feb 28 1930:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	60	-	-
1969-W320	2440281.33	1969 Feb 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	67	-	-
1969-W321	2440281.34	1969 Feb 28 2014:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W322	2440281.39	1969 Feb 28 2120:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W324	2440282.09	1969 Mar 1 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W325	2440283.09	1969 Mar 2 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W326	2440284.11	1969 Mar 3 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W327	2440284.17	1969 Mar 3 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W328	2440284.18	1969 Mar 3 1622:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-W329	2440284.23	1969 Mar 3 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W330	2440284.25	1969 Mar 3 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1969-W331	2440284.25	1969 Mar 3 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1969-Y103	2440284.27	1969 Mar 3 1823:59	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	100	-	-
1969-W332	2440284.33	1969 Mar 3 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	61	-	-
1969-W333	2440284.36	1969 Mar 3 2042:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W335	2440285.38	1969 Mar 4 2110:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	58	-	-
1969-W336	2440285.39	1969 Mar 4 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W337	2440286.11	1969 Mar 5 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1969-W338	2440286.13	1969 Mar 5 1501:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W339	2440286.19	1969 Mar 5 1640:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W340	2440286.23	1969 Mar 5 1725:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1969-W341	2440286.25	1969 Mar 5 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1969-W342	2440286.31	1969 Mar 5 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1969-W343	2440286.33	1969 Mar 5 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	63	-	-
1969-W344	2440286.36	1969 Mar 5 2038:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W345	2440286.38	1969 Mar 5 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	56	-	-
1969-W347	2440287.33	1969 Mar 6 1949:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1969-W348	2440287.38	1969 Mar 6 2104:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	65	-	-
1969-W350	2440288.11	1969 Mar 7 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W351	2440288.13	1969 Mar 7 1511:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W352	2440288.21	1969 Mar 7 1704:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	57	-	-
1969-W353	2440288.23	1969 Mar 7 1731:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1969-W354	2440288.23	1969 Mar 7 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W355	2440288.27	1969 Mar 7 1826:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1969-W356	2440288.31	1969 Mar 7 1930:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1969-W357	2440288.33	1969 Mar 7 2002:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	64	-	-
1969-W358	2440288.37	1969 Mar 7 2056:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W359	2440291.09	1969 Mar 10 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1969-W360	2440291.11	1969 Mar 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W361	2440291.12	1969 Mar 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W362	2440291.17	1969 Mar 10 1609:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W363	2440291.22	1969 Mar 10 1711:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	62	-	-
1969-W364	2440291.25	1969 Mar 10 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1969-W365	2440291.33	1969 Mar 10 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1969-W366	2440291.34	1969 Mar 10 2004:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	58	-	-
1969-W367	2440291.37	1969 Mar 10 2055:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W368	2440291.40	1969 Mar 10 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W370	2440292.35	1969 Mar 11 2024:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	59	-	-
1969-W371	2440292.40	1969 Mar 11 2129:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	52	-	-
1969-W372	2440293.11	1969 Mar 12 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W373	2440293.14	1969 Mar 12 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1969-W374	2440293.15	1969 Mar 12 1542:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W375	2440293.16	1969 Mar 12 1556:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CLBI	-	-	-	58	-	-
1969-A46	2440293.18	1969 Mar 12 1622:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	33	-	-
1969-W376	2440293.20	1969 Mar 12 1652:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	58	-	-
1969-W377	2440293.25	1969 Mar 12 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1969-A47	2440293.25	1969 Mar 12 1806:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	28	-	-
1969-W378	2440293.26	1969 Mar 12 1818:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	60	-	-
1969-W379	2440293.30	1969 Mar 12 1912:59	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	54	-	-
1969-W380	2440293.33	1969 Mar 12 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W381	2440293.37	1969 Mar 12 2046:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W382	2440293.37	1969 Mar 12 2056:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	59	-	-
1969-W383	2440293.43	1969 Mar 12 2213:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1969-Y104	2440294.16	1969 Mar 13 1555:00	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	81	-	-
1969-W385	2440294.25	1969 Mar 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W386	2440294.30	1969 Mar 13 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	58	-	-
1969-A48	2440294.33	1969 Mar 13 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	45	-	-
1969-W387	2440294.37	1969 Mar 13 2056:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W388	2440294.38	1969 Mar 13 2111:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1969-W390	2440294.97	1969 Mar 14 1115:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W391	2440295.11	1969 Mar 14 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-W392	2440295.11	1969 Mar 14 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W393	2440295.12	1969 Mar 14 1448:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	63	-	-
1969-A49	2440295.18	1969 Mar 14 1613:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	47	-	-
1969-A50	2440295.24	1969 Mar 14 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	48	-	-
1969-W394	2440295.26	1969 Mar 14 1820:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1969-W395	2440295.30	1969 Mar 14 1904:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1969-W396	2440295.33	1969 Mar 14 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	53	-	-
1969-W397	2440295.33	1969 Mar 14 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	62	-	-
1969-W398	2440295.37	1969 Mar 14 2049:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W400	2440298.09	1969 Mar 17 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1969-W401	2440298.12	1969 Mar 17 1451:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W402	2440298.12	1969 Mar 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W403	2440298.16	1969 Mar 17 1555:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	59	-	-
1969-W404	2440298.25	1969 Mar 17 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	51	-	-
1969-W405	2440298.28	1969 Mar 17 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1969-W406	2440298.29	1969 Mar 17 1853:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W407	2440298.35	1969 Mar 17 2018:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W408	2440298.35	1969 Mar 17 2030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W409	2440299.21	1969 Mar 18 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1969-W410	2440299.27	1969 Mar 18 1835:59	Rocketsonde	-	-	Chaff	-	-	-	PM	-	-	-	58	-	-
1969-W411	2440299.41	1969 Mar 18 2145:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	57	-	-
1969-W412	2440300.11	1969 Mar 19 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W413	2440300.13	1969 Mar 19 1508:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	67	-	-
1969-W414	2440300.17	1969 Mar 19 1600:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W415	2440300.23	1969 Mar 19 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W416	2440300.25	1969 Mar 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W417	2440300.26	1969 Mar 19 1810:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1969-W418	2440300.26	1969 Mar 19 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W419	2440300.27	1969 Mar 19 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-W420	2440300.28	1969 Mar 19 1837:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	56	-	-
1969-W422	2440300.34	1969 Mar 19 2010:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	58	-	-
1969-W423	2440300.38	1969 Mar 19 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W424	2440301.14	1969 Mar 20 1525:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	59	-	-
1969-W425	2440301.36	1969 Mar 20 2042:00	Rocketsonde	-	-	Chaff	-	-	-	PM	-	-	-	61	-	-
1969-W426	2440301.40	1969 Mar 20 2130:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	62	-	-
1969-W427	2440301.48	1969 Mar 20 2330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W429	2440302.11	1969 Mar 21 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W430	2440302.12	1969 Mar 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W431	2440302.13	1969 Mar 21 1509:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	58	-	-
1969-A53	2440302.13	1969 Mar 21 1512:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	49	-	-
1969-W432	2440302.28	1969 Mar 21 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W433	2440302.37	1969 Mar 21 2046:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W435	2440305.09	1969 Mar 24 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1969-W436	2440305.11	1969 Mar 24 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	60	-	-
1969-W437	2440305.12	1969 Mar 24 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W438	2440305.13	1969 Mar 24 1508:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	62	-	-
1969-W439	2440305.25	1969 Mar 24 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1969-W440	2440305.29	1969 Mar 24 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1969-W441	2440305.33	1969 Mar 24 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	63	-	-
1969-W443	2440306.39	1969 Mar 25 2122:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1969-W444	2440306.40	1969 Mar 25 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W445	2440307.11	1969 Mar 26 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	58	-	-
1969-W446	2440307.12	1969 Mar 26 1500:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W447	2440307.23	1969 Mar 26 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1969-W448	2440307.25	1969 Mar 26 1759:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	58	-	-
1969-W449	2440307.33	1969 Mar 26 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	62	-	-
1969-W450	2440307.34	1969 Mar 26 2004:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	73	-	-
1969-W451	2440307.39	1969 Mar 26 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1969-W452	2440307.45	1969 Mar 26 2251:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W454	2440307.65	1969 Mar 27 0332:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	63	-	-
1969-W455	2440308.19	1969 Mar 27 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W456	2440308.39	1969 Mar 27 2122:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	56	-	-
1969-W458	2440308.69	1969 Mar 28 0436:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1969-W459	2440308.73	1969 Mar 28 0537:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W460	2440308.85	1969 Mar 28 0824:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-W461	2440309.11	1969 Mar 28 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W462	2440309.12	1969 Mar 28 1447:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W463	2440309.18	1969 Mar 28 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W464	2440309.27	1969 Mar 28 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W465	2440309.27	1969 Mar 28 1830:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1969-W466	2440309.28	1969 Mar 28 1840:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1969-W467	2440309.29	1969 Mar 28 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1969-W468	2440309.33	1969 Mar 28 2000:00	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	60	-	-
1969-W469	2440309.41	1969 Mar 28 2149:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W471	2440309.70	1969 Mar 29 0442:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W474	2440312.09	1969 Mar 31 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	62	-	-
1969-W476	2440313.10	1969 Apr 1 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	70	-	-
1969-W477	2440313.29	1969 Apr 1 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	53	-	-
1969-W478	2440314.12	1969 Apr 2 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W479	2440314.15	1969 Apr 2 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1969-W480	2440314.16	1969 Apr 2 1553:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	72	-	-
1969-W481	2440314.17	1969 Apr 2 1558:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	60	-	-
1969-W482	2440314.19	1969 Apr 2 1626:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	52	-	-
1969-W483	2440314.25	1969 Apr 2 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	73	-	-
1969-W484	2440314.31	1969 Apr 2 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	62	-	-
1969-W485	2440314.35	1969 Apr 2 2029:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W486	2440314.36	1969 Apr 2 2043:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W487	2440315.08	1969 Apr 3 1358:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	69	-	-
1969-W488	2440315.26	1969 Apr 3 1813:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W489	2440315.40	1969 Apr 3 2130:00	Rocketsonde	-	-	Chaff	-	-	-	PM	-	-	-	63	-	-
1969-W490	2440316.10	1969 Apr 4 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	64	-	-
1969-W491	2440316.11	1969 Apr 4 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	62	-	-
1969-W492	2440316.12	1969 Apr 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W493	2440316.19	1969 Apr 4 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W494	2440316.21	1969 Apr 4 1702:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W495	2440316.22	1969 Apr 4 1715:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1969-W496	2440316.34	1969 Apr 4 2010:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	62	-	-
1969-W497	2440319.09	1969 Apr 7 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	50	-	-
1969-W498	2440319.12	1969 Apr 7 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	65	-	-
1969-W499	2440319.12	1969 Apr 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W500	2440319.17	1969 Apr 7 1604:59	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	58	-	-
1969-W501	2440319.17	1969 Apr 7 1611:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W502	2440319.29	1969 Apr 7 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	55	-	-
1969-A57	2440319.36	1969 Apr 7 2040:00	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	49	-	-
1969-W503	2440319.36	1969 Apr 7 2045:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W504	2440319.38	1969 Apr 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W505	2440320.08	1969 Apr 8 1351:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	54	-	-
1969-W506	2440320.27	1969 Apr 8 1827:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W507	2440320.29	1969 Apr 8 1859:59	Rocketsonde	-	-	Chaff	-	-	-	PM	-	-	-	64	-	-
1969-W508	2440321.11	1969 Apr 9 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1969-W509	2440321.11	1969 Apr 9 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W510	2440321.12	1969 Apr 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W511	2440321.13	1969 Apr 9 1510:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	59	-	-
1969-W512	2440321.19	1969 Apr 9 1634:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	60	-	-
1969-W513	2440321.24	1969 Apr 9 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W514	2440321.25	1969 Apr 9 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W515	2440321.27	1969 Apr 9 1831:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1969-W516	2440321.36	1969 Apr 9 2045:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	61	-	-
1969-W517	2440321.37	1969 Apr 9 2048:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W518	2440321.46	1969 Apr 9 2302:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W520	2440322.12	1969 Apr 10 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	53	-	-
1969-W521	2440322.19	1969 Apr 10 1638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1969-W522	2440322.23	1969 Apr 10 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	62	-	-
1969-W523	2440322.90	1969 Apr 11 0934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1969-W524	2440323.11	1969 Apr 11 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	68	-	-
1969-W525	2440323.12	1969 Apr 11 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	51	-	-
1969-W526	2440323.17	1969 Apr 11 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1969-W527	2440323.17	1969 Apr 11 1604:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1969-W528	2440323.23	1969 Apr 11 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1969-W529	2440323.26	1969 Apr 11 1811:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W530	2440323.27	1969 Apr 11 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W531	2440323.33	1969 Apr 11 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1969-W532	2440323.36	1969 Apr 11 2035:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W535	2440326.12	1969 Apr 14 1449:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W536	2440326.20	1969 Apr 14 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W537	2440326.22	1969 Apr 14 1719:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W538	2440326.25	1969 Apr 14 1800:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	59	-	-
1969-W539	2440326.28	1969 Apr 14 1836:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1969-W540	2440326.32	1969 Apr 14 1944:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1969-W541	2440326.33	1969 Apr 14 2001:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	58	-	-
1969-W542	2440326.42	1969 Apr 14 2207:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W544	2440327.12	1969 Apr 15 1446:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	70	-	-
1969-W545	2440327.18	1969 Apr 15 1614:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1969-A60	2440327.39	1969 Apr 15 2117:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	46	-	-
1969-W546	2440327.42	1969 Apr 15 2157:59	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	64	-	-
1969-W548	2440328.09	1969 Apr 16 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-W549	2440328.11	1969 Apr 16 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1969-W550	2440328.12	1969 Apr 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W551	2440328.13	1969 Apr 16 1503:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	59	-	-
1969-W552	2440328.18	1969 Apr 16 1621:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W553	2440328.18	1969 Apr 16 1622:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1969-W554	2440328.21	1969 Apr 16 1656:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W555	2440328.29	1969 Apr 16 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	62	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W556	2440328.33	1969 Apr 16 1953:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W557	2440328.39	1969 Apr 16 2114:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	65	-	-
1969-W558	2440328.42	1969 Apr 16 2201:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W559	2440328.42	1969 Apr 16 2206:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	60	-	-
1969-W560	2440329.19	1969 Apr 17 1632:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1969-W561	2440329.23	1969 Apr 17 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W562	2440329.34	1969 Apr 17 2009:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1969-W563	2440330.08	1969 Apr 18 1358:59	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	62	-	-
1969-W564	2440330.11	1969 Apr 18 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W565	2440330.12	1969 Apr 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-A62	2440330.13	1969 Apr 18 1510:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	34	-	-
1969-W566	2440330.20	1969 Apr 18 1654:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1969-W567	2440330.26	1969 Apr 18 1811:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1969-W568	2440330.29	1969 Apr 18 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	56	-	-
1969-W569	2440330.33	1969 Apr 18 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	67	-	-
1969-A63	2440330.54	1969 Apr 19 0052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	46	-	-
1969-W571	2440333.11	1969 Apr 21 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W572	2440333.11	1969 Apr 21 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	61	-	-
1969-W573	2440333.12	1969 Apr 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1969-W574	2440333.25	1969 Apr 21 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1969-W575	2440333.31	1969 Apr 21 1932:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W576	2440333.32	1969 Apr 21 1941:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W577	2440333.34	1969 Apr 21 2004:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	57	-	-
1969-W578	2440333.34	1969 Apr 21 2014:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1969-W579	2440333.37	1969 Apr 21 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1969-W580	2440333.38	1969 Apr 21 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1969-W581	2440333.39	1969 Apr 21 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1969-A66	2440334.39	1969 Apr 22 2117:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W583	2440334.42	1969 Apr 22 2209:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W584	2440334.55	1969 Apr 23 0111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W585	2440335.11	1969 Apr 23 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1969-W586	2440335.12	1969 Apr 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1969-W587	2440335.17	1969 Apr 23 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1969-W588	2440335.17	1969 Apr 23 1609:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W589	2440335.19	1969 Apr 23 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W590	2440335.24	1969 Apr 23 1740:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W591	2440335.25	1969 Apr 23 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W592	2440335.27	1969 Apr 23 1834:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	62	-	-
1969-W593	2440335.40	1969 Apr 23 2129:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W595	2440336.39	1969 Apr 24 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W596	2440337.11	1969 Apr 25 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W597	2440337.12	1969 Apr 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W598	2440337.15	1969 Apr 25 1534:59	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	61	-	-
1969-W599	2440337.21	1969 Apr 25 1702:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W600	2440337.21	1969 Apr 25 1704:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1969-W601	2440337.23	1969 Apr 25 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1969-W602	2440337.48	1969 Apr 25 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W604	2440338.65	1969 Apr 27 0340:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1969-W605	2440338.67	1969 Apr 27 0359:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1969-W606	2440338.69	1969 Apr 27 0430:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1969-W607	2440338.71	1969 Apr 27 0500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1969-W608	2440338.74	1969 Apr 27 0549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W609	2440338.75	1969 Apr 27 0553:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	56	-	-
1969-W610	2440338.77	1969 Apr 27 0630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W611	2440340.09	1969 Apr 28 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W612	2440340.11	1969 Apr 28 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1969-W613	2440340.25	1969 Apr 28 1807:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1969-W614	2440340.29	1969 Apr 28 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	65	-	-
1969-W615	2440340.38	1969 Apr 28 2106:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	61	-	-
1969-W616	2440340.42	1969 Apr 28 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1969-W617	2440341.16	1969 Apr 29 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-W618	2440341.17	1969 Apr 29 1603:59	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	57	-	-
1969-W619	2440341.21	1969 Apr 29 1707:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	58	-	-
1969-W620	2440341.25	1969 Apr 29 1758:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	61	-	-
1969-W621	2440341.27	1969 Apr 29 1830:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1969-A69	2440341.28	1969 Apr 29 1844:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	35	-	-
1969-A71	2440341.39	1969 Apr 29 2123:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	46	-	-
1969-W623	2440342.08	1969 Apr 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W624	2440342.11	1969 Apr 30 1445:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W625	2440342.11	1969 Apr 30 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1969-W626	2440342.17	1969 Apr 30 1609:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1969-W627	2440342.19	1969 Apr 30 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	55	-	-
1969-W628	2440342.25	1969 Apr 30 1801:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W629	2440342.30	1969 Apr 30 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W630	2440342.38	1969 Apr 30 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W631	2440343.12	1969 May 1 1457:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W632	2440343.21	1969 May 1 1700:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	68	-	-
1969-W633	2440343.21	1969 May 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W634	2440343.40	1969 May 1 2132:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W635	2440343.49	1969 May 1 2343:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	58	-	-
1969-A74	2440344.08	1969 May 2 1358:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	48	-	-
1969-W636	2440344.08	1969 May 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W637	2440344.10	1969 May 2 1430:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1969-W638	2440344.12	1969 May 2 1457:00	Rocketsonde	-	-	Met Para	-	-	-	ASC	-	-	-	60	-	-
1969-W639	2440344.14	1969 May 2 1522:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1969-W641	2440344.25	1969 May 2 1806:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	57	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W642	2440344.27	1969 May 2 1822:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W643	2440344.27	1969 May 2 1824:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	60	-	-
1969-A75	2440344.27	1969 May 2 1832:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	39	-	-
1969-W644	2440344.29	1969 May 2 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W645	2440344.29	1969 May 2 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1969-W646	2440344.30	1969 May 2 1904:59	Rocketsonde	-	-	Met Para	-	-	-	GRLY	-	-	-	58	-	-
1969-A76	2440344.31	1969 May 2 1921:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	39	-	-
1969-W647	2440344.32	1969 May 2 1945:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	57	-	-
1969-A77	2440344.40	1969 May 2 2137:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	45	-	-
1969-W648	2440347.08	1969 May 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1969-W649	2440347.11	1969 May 5 1433:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	64	-	-
1969-W650	2440347.21	1969 May 5 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	63	-	-
1969-W651	2440347.23	1969 May 5 1735:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W652	2440347.28	1969 May 5 1836:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1969-W653	2440347.32	1969 May 5 1944:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W654	2440347.33	1969 May 5 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1969-W655	2440347.38	1969 May 5 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W656	2440348.12	1969 May 6 1456:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	53	-	-
1969-W657	2440348.25	1969 May 6 1804:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	56	-	-
1969-W658	2440348.39	1969 May 6 2120:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W659	2440349.12	1969 May 7 1446:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W660	2440349.12	1969 May 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	60	-	-
1969-W662	2440349.19	1969 May 7 1627:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W663	2440349.21	1969 May 7 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W664	2440349.23	1969 May 7 1726:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-A79	2440349.24	1969 May 7 1740:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SNI	-	-	-	48	-	-
1969-W665	2440349.25	1969 May 7 1800:00	Rocketsonde	-	-	Met Para	-	-	-	CC	LC43	-	-	54	-	-
1969-W666	2440349.25	1969 May 7 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W667	2440349.26	1969 May 7 1810:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1969-W668	2440349.38	1969 May 7 2104:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1969-W670	2440350.10	1969 May 8 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	59	-	-
1969-W671	2440350.25	1969 May 8 1800:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	61	-	-
1969-W672	2440350.31	1969 May 8 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	67	-	-
1969-W673	2440350.38	1969 May 8 2113:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W674	2440351.11	1969 May 9 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1969-W676	2440351.29	1969 May 9 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	63	-	-
1969-W678	2440351.32	1969 May 9 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1969-W679	2440351.40	1969 May 9 2135:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W681	2440351.72	1969 May 10 0513:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	63	-	-
1969-W682	2440352.55	1969 May 11 0115:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W683	2440352.65	1969 May 11 0330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	58	-	-
1969-W684	2440352.67	1969 May 11 0359:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W685	2440352.69	1969 May 11 0430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-W686	2440352.69	1969 May 11 0432:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W687	2440352.71	1969 May 11 0500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1969-W688	2440352.73	1969 May 11 0530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W689	2440352.75	1969 May 11 0600:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	68	-	-
1969-W690	2440352.77	1969 May 11 0630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W691	2440352.77	1969 May 11 0633:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-A80	2440354.05	1969 May 12 1314:59	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	41	-	-
1969-W692	2440354.08	1969 May 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W694	2440354.22	1969 May 12 1720:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W695	2440354.29	1969 May 12 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1969-W696	2440354.29	1969 May 12 1901:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	64	-	-
1969-W697	2440354.30	1969 May 12 1907:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1969-W698	2440354.40	1969 May 12 2133:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W699	2440355.14	1969 May 13 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W700	2440355.15	1969 May 13 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W702	2440355.22	1969 May 13 1712:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1969-W703	2440355.22	1969 May 13 1715:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	61	-	-
1969-A82	2440355.38	1969 May 13 2101:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W705	2440355.96	1969 May 14 1106:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W706	2440356.08	1969 May 14 1400:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	61	-	-
1969-W707	2440356.09	1969 May 14 1412:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-Y138	2440356.17	1969 May 14 1608:59	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	92	-	-
1969-W708	2440356.19	1969 May 14 1627:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1969-A83	2440356.19	1969 May 14 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	34	-	-
1969-W709	2440356.25	1969 May 14 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	73	-	-
1969-W710	2440356.29	1969 May 14 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	71	-	-
1969-A84	2440357.08	1969 May 15 1400:00	Rocketsonde	-	-	-	-	-	-	CC	LC43	-	-	43	-	-
1969-W711	2440357.12	1969 May 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W712	2440357.13	1969 May 15 1513:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1969-A85	2440357.36	1969 May 15 2032:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	43	-	-
1969-W713	2440357.42	1969 May 15 2159:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	56	-	-
1969-W714	2440357.42	1969 May 15 2200:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	58	-	-
1969-W715	2440357.42	1969 May 15 2209:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1969-W716	2440358.11	1969 May 16 1445:00	Rocketsonde	-	-	Met Para	-	-	-	ASC	-	-	-	55	-	-
1969-W717	2440358.12	1969 May 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W718	2440358.19	1969 May 16 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W719	2440358.25	1969 May 16 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	73	-	-
1969-W721	2440358.31	1969 May 16 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W722	2440358.36	1969 May 16 2041:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W723	2440358.40	1969 May 16 2134:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1969-W724	2440359.05	1969 May 17 1309:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W725	2440360.31	1969 May 18 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-Y139	2440360.35	1969 May 18 2030:00	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	90	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W727	2440361.08	1969 May 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1969-W728	2440361.11	1969 May 19 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ASC	-	-	-	65	-	-
1969-W729	2440361.15	1969 May 19 1531:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	54	-	-
1969-W730	2440361.21	1969 May 19 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W731	2440361.42	1969 May 19 2206:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W732	2440362.26	1969 May 20 1813:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1969-A86	2440362.35	1969 May 20 2030:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	46	-	-
1969-W733	2440362.42	1969 May 20 2159:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-A88	2440363.08	1969 May 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	44	-	-
1969-W734	2440363.11	1969 May 21 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W735	2440363.13	1969 May 21 1504:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	61	-	-
1969-W736	2440363.13	1969 May 21 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W737	2440363.19	1969 May 21 1634:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	59	-	-
1969-W738	2440363.25	1969 May 21 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1969-W739	2440363.29	1969 May 21 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	69	-	-
1969-W740	2440363.36	1969 May 21 2032:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W741	2440363.42	1969 May 21 2157:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-W743	2440364.25	1969 May 22 1756:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1969-W744	2440364.25	1969 May 22 1806:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W745	2440364.28	1969 May 22 1837:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W746	2440364.29	1969 May 22 1857:59	Rocketsonde	-	-	Met Para,Exp. Sonde	-	-	-	WI	-	-	-	59	-	-
1969-A89	2440364.38	1969 May 22 2101:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	48	-	-
1969-W747	2440365.10	1969 May 23 1421:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1969-W748	2440365.10	1969 May 23 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W749	2440365.11	1969 May 23 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ASC	-	-	-	60	-	-
1969-W750	2440365.16	1969 May 23 1546:59	Rocketsonde	-	-	Met Para,Exp. Sonde	-	-	-	WI	-	-	-	54	-	-
1969-W751	2440365.23	1969 May 23 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	64	-	-
1969-W752	2440365.24	1969 May 23 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W753	2440365.27	1969 May 23 1829:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	74	-	-
1969-W755	2440365.35	1969 May 23 2030:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	65	-	-
1969-W756	2440365.38	1969 May 23 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1969-W757	2440366.50	1969 May 24 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W758	2440368.08	1969 May 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W759	2440368.12	1969 May 26 1446:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1969-W760	2440368.21	1969 May 26 1703:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1969-W761	2440368.25	1969 May 26 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1969-W762	2440368.29	1969 May 26 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1969-W763	2440368.42	1969 May 26 2158:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W765	2440369.29	1969 May 27 1859:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1969-A91	2440369.35	1969 May 27 2026:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W766	2440370.09	1969 May 28 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	64	-	-
1969-W767	2440370.11	1969 May 28 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-A92	2440370.17	1969 May 28 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	45	-	-
1969-W768	2440370.20	1969 May 28 1641:00	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	59	-	-
1969-W769	2440370.20	1969 May 28 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	70	-	-
1969-W770	2440370.21	1969 May 28 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	60	-	-
1969-W771	2440370.25	1969 May 28 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W772	2440370.27	1969 May 28 1822:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1969-W773	2440370.31	1969 May 28 1929:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W774	2440370.38	1969 May 28 2112:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W775	2440371.12	1969 May 29 1459:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W776	2440371.12	1969 May 29 1500:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1969-W777	2440371.17	1969 May 29 1559:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1969-W778	2440371.19	1969 May 29 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W779	2440371.25	1969 May 29 1800:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W780	2440371.29	1969 May 29 1855:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	64	-	-
1969-A93	2440371.39	1969 May 29 2117:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	48	-	-
1969-W781	2440372.13	1969 May 30 1507:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	58	-	-
1969-W782	2440372.26	1969 May 30 1815:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1969-W785	2440375.13	1969 Jun 2 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	58	-	-
1969-W786	2440375.18	1969 Jun 2 1614:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1969-W787	2440375.29	1969 Jun 2 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1969-W788	2440375.35	1969 Jun 2 2029:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	61	-	-
1969-W789	2440375.38	1969 Jun 2 2110:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1969-A95	2440376.38	1969 Jun 3 2107:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W790	2440377.02	1969 Jun 4 1226:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	62	-	-
1969-W791	2440377.08	1969 Jun 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W792	2440377.12	1969 Jun 4 1449:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W795	2440377.25	1969 Jun 4 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1969-W796	2440377.27	1969 Jun 4 1824:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W797	2440377.43	1969 Jun 4 2224:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1969-W798	2440378.23	1969 Jun 5 1734:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-A97	2440378.38	1969 Jun 5 2106:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	46	-	-
1969-W799	2440378.71	1969 Jun 6 0504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-W800	2440378.79	1969 Jun 6 0659:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1969-W801	2440379.11	1969 Jun 6 1441:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-W802	2440379.18	1969 Jun 6 1617:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W804	2440379.23	1969 Jun 6 1735:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W805	2440379.33	1969 Jun 6 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W806	2440379.41	1969 Jun 6 2149:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1969-W807	2440379.42	1969 Jun 6 2159:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1969-W808	2440379.45	1969 Jun 6 2249:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	75	-	-
1969-A98	2440382.11	1969 Jun 9 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	48	-	-
1969-W809	2440382.17	1969 Jun 9 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1969-W810	2440382.24	1969 Jun 9 1745:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-W811	2440382.29	1969 Jun 9 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W812	2440383.12	1969 Jun 10 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1969-W813	2440383.18	1969 Jun 10 1614:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	58	-	-
1969-W814	2440383.25	1969 Jun 10 1800:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-W815	2440383.33	1969 Jun 10 1956:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	65	-	-
1969-W817	2440384.08	1969 Jun 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W818	2440384.10	1969 Jun 11 1427:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1969-W819	2440384.10	1969 Jun 11 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	66	-	-
1969-W820	2440384.16	1969 Jun 11 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1969-W821	2440384.18	1969 Jun 11 1612:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-W822	2440384.19	1969 Jun 11 1638:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	69	-	-
1969-W824	2440384.24	1969 Jun 11 1743:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1969-W825	2440384.38	1969 Jun 11 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-A99	2440385.38	1969 Jun 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	39	-	-
1969-A100	2440385.38	1969 Jun 12 2101:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	40	-	-
1969-W827	2440385.40	1969 Jun 12 2130:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	72	-	-
1969-Y179	2440385.42	1969 Jun 12 2159:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	84	-	-
1969-W828	2440386.10	1969 Jun 13 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W829	2440386.12	1969 Jun 13 1457:00	Rocketsonde	-	-	Met Para	-	-	-	THU	-	-	-	58	-	-
1969-W830	2440386.21	1969 Jun 13 1702:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W831	2440386.27	1969 Jun 13 1834:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1969-W832	2440386.32	1969 Jun 13 1944:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W833	2440386.40	1969 Jun 13 2133:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1969-W834	2440387.68	1969 Jun 15 0418:59	Rocketsonde	-	-	Chaff	-	-	-	CC	LC43	-	-	61	-	-
1969-W835	2440388.23	1969 Jun 15 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1969-W836	2440389.22	1969 Jun 16 1714:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	56	-	-
1969-W837	2440389.25	1969 Jun 16 1754:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	52	-	-
1969-W838	2440390.17	1969 Jun 17 1559:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-A101	2440390.27	1969 Jun 17 1827:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	47	-	-
1969-A102	2440390.38	1969 Jun 17 2107:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1969-W839	2440390.98	1969 Jun 18 1125:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W840	2440391.10	1969 Jun 18 1418:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W841	2440391.13	1969 Jun 18 1511:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1969-W842	2440391.15	1969 Jun 18 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	63	-	-
1969-W844	2440391.21	1969 Jun 18 1656:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1969-W845	2440391.23	1969 Jun 18 1737:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W846	2440391.29	1969 Jun 18 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-W847	2440391.30	1969 Jun 18 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	64	-	-
1969-W848	2440391.39	1969 Jun 18 2119:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	60	-	-
1969-W849	2440391.45	1969 Jun 18 2249:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	57	-	-
1969-W850	2440392.15	1969 Jun 19 1531:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	69	-	-
1969-W851	2440392.23	1969 Jun 19 1730:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1969-A104	2440392.50	1969 Jun 20 0000:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1969-W852	2440392.56	1969 Jun 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1969-W853	2440392.57	1969 Jun 20 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1969-W854	2440392.86	1969 Jun 20 0837:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W856	2440393.15	1969 Jun 20 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W857	2440393.15	1969 Jun 20 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1969-W858	2440393.17	1969 Jun 20 1604:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W859	2440393.19	1969 Jun 20 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W860	2440393.19	1969 Jun 20 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W861	2440393.23	1969 Jun 20 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1969-W862	2440393.24	1969 Jun 20 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1969-W863	2440393.27	1969 Jun 20 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W864	2440393.28	1969 Jun 20 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1969-W865	2440393.29	1969 Jun 20 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	69	-	-
1969-W866	2440393.30	1969 Jun 20 1914:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1969-W867	2440393.32	1969 Jun 20 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1969-W868	2440393.32	1969 Jun 20 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1969-W869	2440393.40	1969 Jun 20 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1969-W870	2440393.40	1969 Jun 20 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	57	-	-
1969-W871	2440396.08	1969 Jun 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W872	2440396.11	1969 Jun 23 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	60	-	-
1969-W873	2440396.14	1969 Jun 23 1517:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	55	-	-
1969-W874	2440396.14	1969 Jun 23 1527:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	66	-	-
1969-W875	2440396.17	1969 Jun 23 1602:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	58	-	-
1969-W876	2440396.20	1969 Jun 23 1648:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W877	2440396.23	1969 Jun 23 1730:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	63	-	-
1969-W878	2440396.25	1969 Jun 23 1800:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W879	2440396.38	1969 Jun 23 2103:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1969-W880	2440397.08	1969 Jun 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W881	2440397.10	1969 Jun 24 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W882	2440397.12	1969 Jun 24 1459:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	63	-	-
1969-W883	2440397.12	1969 Jun 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1969-W884	2440397.26	1969 Jun 24 1813:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	66	-	-
1969-A106	2440397.39	1969 Jun 24 2123:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1969-W886	2440398.10	1969 Jun 25 1431:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	66	-	-
1969-W887	2440398.11	1969 Jun 25 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-W888	2440398.11	1969 Jun 25 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W889	2440398.12	1969 Jun 25 1449:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W890	2440398.12	1969 Jun 25 1500:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	59	-	-
1969-W891	2440398.15	1969 Jun 25 1529:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W892	2440398.17	1969 Jun 25 1602:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	62	-	-
1969-W893	2440398.29	1969 Jun 25 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W894	2440398.33	1969 Jun 25 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	75	-	-
1969-W895	2440398.39	1969 Jun 25 2127:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1969-W896	2440398.42	1969 Jun 25 2157:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W897	2440399.12	1969 Jun 26 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	68	-	-
1969-W898	2440399.13	1969 Jun 26 1512:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	61	-	-
1969-A107	2440399.38	1969 Jun 26 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1969-W899	2440399.41	1969 Jun 26 2146:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	64	-	-
1969-W900	2440400.09	1969 Jun 27 1407:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W902	2440400.25	1969 Jun 27 1800:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	72	-	-
1969-W903	2440400.25	1969 Jun 27 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1969-W904	2440400.29	1969 Jun 27 1851:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	63	-	-
1969-W905	2440400.33	1969 Jun 27 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1969-W906	2440400.39	1969 Jun 27 2122:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1969-A108	2440400.40	1969 Jun 27 2135:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	31	-	-
1969-W907	2440400.46	1969 Jun 27 2255:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1969-W908	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W909	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	69	-	-
1969-W910	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	62	-	-
1969-W911	2440403.12	1969 Jun 30 1451:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1969-W912	2440403.14	1969 Jun 30 1522:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W913	2440403.38	1969 Jun 30 2101:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1969-W914	2440403.74	1969 Jul 1 0546:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-A112	2440404.11	1969 Jul 1 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	42	-	-
1969-W915	2440404.27	1969 Jul 1 1831:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-A113	2440404.38	1969 Jul 1 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1969-W916	2440404.92	1969 Jul 2 1003:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W917	2440405.09	1969 Jul 2 1406:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W918	2440405.11	1969 Jul 2 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W919	2440405.13	1969 Jul 2 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-W920	2440405.13	1969 Jul 2 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	69	-	-
1969-Y189	2440405.17	1969 Jul 2 1559:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	82	-	-
1969-W921	2440405.17	1969 Jul 2 1609:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W923	2440405.23	1969 Jul 2 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W924	2440405.25	1969 Jul 2 1800:59	Rocketsonde	-	-	Met Para	-	-	-	PRIM	-	-	-	62	-	-
1969-A114	2440405.29	1969 Jul 2 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	43	-	-
1969-A115	2440405.32	1969 Jul 2 1944:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	41	-	-
1969-W925	2440405.35	1969 Jul 2 2029:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W926	2440405.38	1969 Jul 2 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	54	-	-
1969-A116	2440405.39	1969 Jul 2 2114:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	42	-	-
1969-W927	2440406.12	1969 Jul 3 1500:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1969-W928	2440406.26	1969 Jul 3 1810:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	58	-	-
1969-W929	2440406.29	1969 Jul 3 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	51	-	-
1969-W930	2440406.31	1969 Jul 3 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	62	-	-
1969-W931	2440406.39	1969 Jul 3 2124:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W932	2440410.08	1969 Jul 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W933	2440410.11	1969 Jul 7 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W934	2440410.12	1969 Jul 7 1449:59	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	58	-	-
1969-W935	2440410.18	1969 Jul 7 1615:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	56	-	-
1969-W936	2440410.22	1969 Jul 7 1713:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W937	2440411.27	1969 Jul 8 1833:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-A119	2440411.38	1969 Jul 8 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W938	2440412.10	1969 Jul 9 1419:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1969-A120	2440412.14	1969 Jul 9 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	26	-	-
1969-W939	2440412.14	1969 Jul 9 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W940	2440412.16	1969 Jul 9 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W941	2440412.20	1969 Jul 9 1648:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	56	-	-
1969-A121	2440412.24	1969 Jul 9 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	45	-	-
1969-W942	2440412.25	1969 Jul 9 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W944	2440412.38	1969 Jul 9 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-A122	2440413.30	1969 Jul 10 1907:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	49	-	-
1969-W945	2440413.32	1969 Jul 10 1941:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	66	-	-
1969-W946	2440413.56	1969 Jul 11 0119:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W947	2440414.08	1969 Jul 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W948	2440414.11	1969 Jul 11 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	61	-	-
1969-W949	2440414.12	1969 Jul 11 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	62	-	-
1969-W950	2440414.20	1969 Jul 11 1647:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1969-A123	2440414.23	1969 Jul 11 1734:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	43	-	-
1969-W951	2440414.30	1969 Jul 11 1914:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W952	2440414.47	1969 Jul 11 2322:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W954	2440417.11	1969 Jul 14 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W955	2440417.13	1969 Jul 14 1502:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	55	-	-
1969-W957	2440417.28	1969 Jul 14 1845:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	71	-	-
1969-W958	2440417.29	1969 Jul 14 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	52	-	-
1969-W959	2440417.30	1969 Jul 14 1907:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1970-W14	2440587.56	1970 Jan 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W15	2440588.46	1970 Jan 1 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	52	-	-
1970-W16	2440589.10	1970 Jan 2 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1970-W17	2440589.13	1970 Jan 2 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W18	2440589.18	1970 Jan 2 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1970-W19	2440589.29	1970 Jan 2 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1970-W21	2440589.42	1970 Jan 2 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W22	2440589.55	1970 Jan 3 0115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W26	2440590.31	1970 Jan 3 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1970-W27	2440590.33	1970 Jan 3 2001:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W30	2440591.27	1970 Jan 4 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	60	-	-
1970-W31	2440591.31	1970 Jan 4 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W32	2440591.35	1970 Jan 4 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W35	2440592.10	1970 Jan 5 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W36	2440592.12	1970 Jan 5 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	THU	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W38	2440592.17	1970 Jan 5 1608:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1970-W40	2440592.32	1970 Jan 5 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W41	2440592.33	1970 Jan 5 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W42	2440592.40	1970 Jan 5 2142:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-A03	2440592.42	1970 Jan 5 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	41	-	-
1970-W44	2440592.55	1970 Jan 6 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1970-W46	2440593.12	1970 Jan 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1970-W47	2440593.17	1970 Jan 6 1611:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1970-A04	2440593.40	1970 Jan 6 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	44	-	-
1970-W48	2440593.46	1970 Jan 6 2306:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W51	2440594.10	1970 Jan 7 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W52	2440594.17	1970 Jan 7 1607:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1970-W53	2440594.25	1970 Jan 7 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1970-W54	2440594.28	1970 Jan 7 1848:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1970-W55	2440594.34	1970 Jan 7 2015:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	68	-	-
1970-W56	2440594.37	1970 Jan 7 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1970-W57	2440594.40	1970 Jan 7 2133:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1970-A05	2440594.46	1970 Jan 7 2255:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	42	-	-
1970-W59	2440594.55	1970 Jan 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-Y06	2440595.26	1970 Jan 8 1820:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1970-W60	2440595.28	1970 Jan 8 1837:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1970-W61	2440595.33	1970 Jan 8 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	78	-	-
1970-W62	2440596.10	1970 Jan 9 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W64	2440596.22	1970 Jan 9 1710:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W65	2440596.22	1970 Jan 9 1715:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1970-W66	2440596.24	1970 Jan 9 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1970-W67	2440596.25	1970 Jan 9 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-A06	2440596.31	1970 Jan 9 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W68	2440596.38	1970 Jan 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W69	2440596.55	1970 Jan 10 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W70	2440596.60	1970 Jan 10 0226:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W72	2440599.11	1970 Jan 12 1436:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W74	2440599.17	1970 Jan 12 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W75	2440599.18	1970 Jan 12 1614:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W76	2440599.30	1970 Jan 12 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W77	2440599.38	1970 Jan 12 2103:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1970-W78	2440599.44	1970 Jan 12 2227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W79	2440599.56	1970 Jan 13 0119:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W80	2440600.22	1970 Jan 13 1722:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-A08	2440601.10	1970 Jan 14 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	26	-	-
1970-W85	2440601.10	1970 Jan 14 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1970-Y20	2440601.17	1970 Jan 14 1559:59	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	90	-	-
1970-W87	2440601.17	1970 Jan 14 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	51	-	-
1970-W88	2440601.20	1970 Jan 14 1654:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1970-W89	2440601.22	1970 Jan 14 1721:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1970-W90	2440601.25	1970 Jan 14 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	76	-	-
1970-W91	2440601.26	1970 Jan 14 1812:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W93	2440601.27	1970 Jan 14 1830:00	Rocketsonde	-	-	Met Sphere,STS	-	-	-	WS	-	-	-	62	-	-
1970-W95	2440601.55	1970 Jan 15 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W96	2440602.18	1970 Jan 15 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1970-W97	2440602.30	1970 Jan 15 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W98	2440602.40	1970 Jan 15 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1970-W100	2440603.10	1970 Jan 16 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W101	2440603.12	1970 Jan 16 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W102	2440603.15	1970 Jan 16 1538:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W103	2440603.17	1970 Jan 16 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W104	2440603.20	1970 Jan 16 1652:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	50	-	-
1970-W105	2440603.23	1970 Jan 16 1725:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W106	2440603.26	1970 Jan 16 1811:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1970-W107	2440603.30	1970 Jan 16 1907:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W108	2440603.33	1970 Jan 16 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W109	2440603.33	1970 Jan 16 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W110	2440603.41	1970 Jan 16 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W112	2440603.55	1970 Jan 17 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-A11	2440606.17	1970 Jan 19 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	48	-	-
1970-W116	2440606.17	1970 Jan 19 1604:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1970-A12	2440606.20	1970 Jan 19 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1970-W117	2440606.21	1970 Jan 19 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1970-W118	2440606.25	1970 Jan 19 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W119	2440606.27	1970 Jan 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W120	2440606.29	1970 Jan 19 1859:59	Rocketsonde	-	-	Starute,STS	-	-	-	WS	-	-	-	63	-	-
1970-W121	2440606.33	1970 Jan 19 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W122	2440606.42	1970 Jan 19 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1970-W123	2440606.55	1970 Jan 20 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W125	2440607.12	1970 Jan 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W126	2440607.23	1970 Jan 20 1725:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W127	2440607.42	1970 Jan 20 2202:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	55	-	-
1970-W130	2440608.12	1970 Jan 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W132	2440608.24	1970 Jan 21 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-Y30	2440608.24	1970 Jan 21 1745:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	82	-	-
1970-W134	2440608.26	1970 Jan 21 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	52	-	-
1970-W135	2440608.36	1970 Jan 21 2040:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	58	-	-
1970-W136	2440608.37	1970 Jan 21 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W137	2440608.40	1970 Jan 21 2130:00	Rocketsonde	-	-	Density gauge	-	-	-	GRLY	-	-	-	50	-	-
1970-W138	2440608.42	1970 Jan 21 2206:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W139	2440608.45	1970 Jan 21 2254:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W140	2440608.55	1970 Jan 22 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W143	2440609.12	1970 Jan 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1970-W144	2440609.24	1970 Jan 22 1746:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-A14	2440609.42	1970 Jan 22 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1970-A15	2440610.12	1970 Jan 23 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1970-W147	2440610.15	1970 Jan 23 1535:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W148	2440610.25	1970 Jan 23 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-W149	2440610.26	1970 Jan 23 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W150	2440610.30	1970 Jan 23 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W151	2440610.31	1970 Jan 23 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W152	2440610.34	1970 Jan 23 2003:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W153	2440610.34	1970 Jan 23 2015:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	50	-	-
1970-W154	2440610.40	1970 Jan 23 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W155	2440613.10	1970 Jan 26 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W156	2440613.12	1970 Jan 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W158	2440613.26	1970 Jan 26 1811:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W159	2440613.35	1970 Jan 26 2023:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1970-W160	2440613.38	1970 Jan 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W162	2440614.15	1970 Jan 27 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-A16	2440614.20	1970 Jan 27 1654:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	44	-	-
1970-A17	2440615.10	1970 Jan 28 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	48	-	-
1970-W164	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1970-W165	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W166	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1970-W168	2440615.25	1970 Jan 28 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1970-Y36	2440615.30	1970 Jan 28 1914:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1970-W169	2440615.32	1970 Jan 28 1942:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1970-W170	2440615.33	1970 Jan 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W171	2440615.34	1970 Jan 28 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W172	2440615.35	1970 Jan 28 2021:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W173	2440615.42	1970 Jan 28 2210:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	53	-	-
1970-W174	2440615.59	1970 Jan 29 0212:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W176	2440616.41	1970 Jan 29 2156:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W177	2440616.44	1970 Jan 29 2237:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W179	2440617.23	1970 Jan 30 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W180	2440617.26	1970 Jan 30 1814:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	63	-	-
1970-W181	2440617.31	1970 Jan 30 1930:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	64	-	-
1970-A18	2440617.35	1970 Jan 30 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W182	2440617.36	1970 Jan 30 2037:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	65	-	-
1970-W183	2440617.42	1970 Jan 30 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W188	2440617.56	1970 Jan 31 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W189	2440620.25	1970 Feb 2 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W190	2440620.45	1970 Feb 2 2241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W191	2440620.45	1970 Feb 2 2241:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W192	2440620.56	1970 Feb 3 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W193	2440621.24	1970 Feb 3 1745:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1970-W194	2440621.25	1970 Feb 3 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W195	2440621.35	1970 Feb 3 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W196	2440621.42	1970 Feb 3 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W198	2440622.09	1970 Feb 4 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1970-W199	2440622.09	1970 Feb 4 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W200	2440622.26	1970 Feb 4 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W201	2440622.28	1970 Feb 4 1837:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1970-W202	2440622.37	1970 Feb 4 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W203	2440622.42	1970 Feb 4 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1970-A19	2440622.45	1970 Feb 4 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	42	-	-
1970-W204	2440622.49	1970 Feb 4 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W205	2440622.56	1970 Feb 5 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W207	2440623.19	1970 Feb 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W208	2440623.25	1970 Feb 5 1801:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1970-W209	2440623.27	1970 Feb 5 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W210	2440623.38	1970 Feb 5 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-A21	2440624.10	1970 Feb 6 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	23	-	-
1970-W211	2440624.10	1970 Feb 6 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1970-A22	2440624.20	1970 Feb 6 1645:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	45	-	-
1970-W212	2440624.25	1970 Feb 6 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1970-W213	2440624.29	1970 Feb 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1970-W214	2440624.38	1970 Feb 6 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W215	2440624.60	1970 Feb 7 0217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W217	2440626.05	1970 Feb 8 1318:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W218	2440627.08	1970 Feb 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W219	2440627.13	1970 Feb 9 1510:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W220	2440627.15	1970 Feb 9 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W221	2440627.21	1970 Feb 9 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1970-W222	2440627.21	1970 Feb 9 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-W223	2440627.25	1970 Feb 9 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1970-W224	2440627.29	1970 Feb 9 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W225	2440627.31	1970 Feb 9 1930:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	60	-	-
1970-W226	2440627.32	1970 Feb 9 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W227	2440627.33	1970 Feb 9 2000:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	52	-	-
1970-W228	2440627.35	1970 Feb 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W229	2440627.36	1970 Feb 9 2034:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1970-W230	2440627.38	1970 Feb 9 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W231	2440627.42	1970 Feb 9 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W232	2440627.56	1970 Feb 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W234	2440628.13	1970 Feb 10 1507:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W235	2440628.23	1970 Feb 10 1725:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-W237	2440628.37	1970 Feb 10 2057:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1970-W239	2440629.05	1970 Feb 11 1304:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-W241	2440629.08	1970 Feb 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W242	2440629.13	1970 Feb 11 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W243	2440629.28	1970 Feb 11 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1970-W244	2440629.30	1970 Feb 11 1914:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	56	-	-
1970-A23	2440629.38	1970 Feb 11 2103:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	48	-	-
1970-W245	2440629.42	1970 Feb 11 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W246	2440629.57	1970 Feb 12 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W248	2440630.12	1970 Feb 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W249	2440630.19	1970 Feb 12 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W250	2440630.42	1970 Feb 12 2159:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W251	2440630.48	1970 Feb 12 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W253	2440631.08	1970 Feb 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1970-W254	2440631.13	1970 Feb 13 1508:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W255	2440631.31	1970 Feb 13 1923:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1970-W256	2440631.35	1970 Feb 13 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W257	2440631.44	1970 Feb 13 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W258	2440631.56	1970 Feb 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W259	2440634.12	1970 Feb 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W260	2440634.14	1970 Feb 16 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W261	2440634.17	1970 Feb 16 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W262	2440634.25	1970 Feb 16 1806:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1970-W263	2440634.33	1970 Feb 16 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W264	2440634.35	1970 Feb 16 2020:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1970-W265	2440634.40	1970 Feb 16 2131:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1970-W267	2440634.57	1970 Feb 17 0135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W268	2440635.14	1970 Feb 17 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W269	2440635.38	1970 Feb 17 2103:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1970-W270	2440635.42	1970 Feb 17 2211:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W272	2440636.09	1970 Feb 18 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1970-W273	2440636.10	1970 Feb 18 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W274	2440636.12	1970 Feb 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W275	2440636.26	1970 Feb 18 1811:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-Y71	2440636.26	1970 Feb 18 1814:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	83	-	-
1970-W276	2440636.26	1970 Feb 18 1815:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W277	2440636.36	1970 Feb 18 2043:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1970-W278	2440636.37	1970 Feb 18 2048:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1970-W279	2440636.38	1970 Feb 18 2106:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	51	-	-
1970-W280	2440636.51	1970 Feb 19 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W281	2440636.57	1970 Feb 19 0137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W283	2440637.12	1970 Feb 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W284	2440638.08	1970 Feb 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W285	2440638.13	1970 Feb 20 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W286	2440638.33	1970 Feb 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W287	2440638.50	1970 Feb 20 2359:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W288	2440638.56	1970 Feb 21 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W290	2440642.12	1970 Feb 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W291	2440642.13	1970 Feb 24 1511:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	56	-	-
1970-W292	2440642.23	1970 Feb 24 1737:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W293	2440642.29	1970 Feb 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W294	2440642.40	1970 Feb 24 2143:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W296	2440643.12	1970 Feb 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1970-W297	2440643.15	1970 Feb 25 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W298	2440643.15	1970 Feb 25 1536:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W300	2440643.25	1970 Feb 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W301	2440643.28	1970 Feb 25 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1970-W302	2440643.33	1970 Feb 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W303	2440643.34	1970 Feb 25 2015:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1970-W304	2440643.36	1970 Feb 25 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W305	2440643.38	1970 Feb 25 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W307	2440643.61	1970 Feb 26 0237:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W308	2440644.12	1970 Feb 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W309	2440644.23	1970 Feb 26 1730:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W310	2440644.25	1970 Feb 26 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W311	2440644.38	1970 Feb 26 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W313	2440645.08	1970 Feb 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W314	2440645.11	1970 Feb 27 1437:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1970-W315	2440645.11	1970 Feb 27 1442:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	65	-	-
1970-W316	2440645.25	1970 Feb 27 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1970-W317	2440645.25	1970 Feb 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W318	2440645.25	1970 Feb 27 1807:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1970-W319	2440645.33	1970 Feb 27 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W320	2440645.41	1970 Feb 27 2147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W323	2440645.56	1970 Feb 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W326	2440648.08	1970 Mar 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W327	2440648.12	1970 Mar 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W328	2440648.17	1970 Mar 2 1601:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	62	-	-
1970-W329	2440648.27	1970 Mar 2 1822:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1970-W330	2440648.29	1970 Mar 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W331	2440648.38	1970 Mar 2 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W332	2440648.56	1970 Mar 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W333	2440649.10	1970 Mar 3 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1970-A24	2440649.35	1970 Mar 3 2029:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	46	-	-
1970-W334	2440649.36	1970 Mar 3 2036:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W335	2440649.40	1970 Mar 3 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W337	2440650.08	1970 Mar 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W338	2440650.12	1970 Mar 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W339	2440650.15	1970 Mar 4 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1970-W340	2440650.21	1970 Mar 4 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W341	2440650.25	1970 Mar 4 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1970-W342	2440650.31	1970 Mar 4 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-W343	2440650.37	1970 Mar 4 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1970-W344	2440650.44	1970 Mar 4 2230:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W345	2440650.55	1970 Mar 5 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W346	2440650.57	1970 Mar 5 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W347	2440651.41	1970 Mar 5 2148:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W348	2440651.43	1970 Mar 5 2218:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W351	2440652.08	1970 Mar 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W352	2440652.12	1970 Mar 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W353	2440652.14	1970 Mar 6 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W354	2440652.38	1970 Mar 6 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W355	2440652.57	1970 Mar 7 0147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W366	2440655.08	1970 Mar 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-A27	2440655.12	1970 Mar 9 1448:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1970-W367	2440655.12	1970 Mar 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W368	2440655.15	1970 Mar 9 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W369	2440655.19	1970 Mar 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W370	2440655.29	1970 Mar 9 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1970-W371	2440655.38	1970 Mar 9 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-A28	2440655.43	1970 Mar 9 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W373	2440655.56	1970 Mar 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W375	2440656.14	1970 Mar 10 1526:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W376	2440656.39	1970 Mar 10 2115:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W377	2440657.09	1970 Mar 11 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W378	2440657.12	1970 Mar 11 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1970-W380	2440657.14	1970 Mar 11 1522:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W382	2440657.19	1970 Mar 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-A29	2440657.25	1970 Mar 11 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1970-W383	2440657.27	1970 Mar 11 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	65	-	-
1970-W384	2440657.33	1970 Mar 11 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W385	2440657.48	1970 Mar 11 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W386	2440657.56	1970 Mar 12 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W389	2440658.23	1970 Mar 12 1730:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W390	2440659.03	1970 Mar 13 1240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1970-W391	2440659.08	1970 Mar 13 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W392	2440659.11	1970 Mar 13 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1970-W393	2440659.17	1970 Mar 13 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W394	2440659.29	1970 Mar 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W395	2440659.34	1970 Mar 13 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W396	2440659.35	1970 Mar 13 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W397	2440659.38	1970 Mar 13 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W398	2440659.56	1970 Mar 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W402	2440662.08	1970 Mar 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1970-A33	2440662.12	1970 Mar 16 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1970-W403	2440662.14	1970 Mar 16 1518:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-W404	2440662.27	1970 Mar 16 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W405	2440662.38	1970 Mar 16 2103:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1970-W406	2440662.38	1970 Mar 16 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W408	2440662.56	1970 Mar 17 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1970-W410	2440663.27	1970 Mar 17 1833:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-A35	2440663.38	1970 Mar 17 2102:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1970-W412	2440664.08	1970 Mar 18 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W413	2440664.12	1970 Mar 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W414	2440664.17	1970 Mar 18 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W415	2440664.25	1970 Mar 18 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W416	2440664.29	1970 Mar 18 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1970-W417	2440664.57	1970 Mar 19 0137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W419	2440665.13	1970 Mar 19 1511:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1970-W421	2440665.31	1970 Mar 19 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	50	-	-
1970-W423	2440666.08	1970 Mar 20 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W424	2440666.12	1970 Mar 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-A36	2440666.26	1970 Mar 20 1820:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	42	-	-
1970-W426	2440666.33	1970 Mar 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1970-W428	2440669.08	1970 Mar 23 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W429	2440669.12	1970 Mar 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W430	2440669.13	1970 Mar 23 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-A38	2440669.30	1970 Mar 23 1904:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1970-W432	2440669.36	1970 Mar 23 2045:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1970-W433	2440669.40	1970 Mar 23 2134:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W434	2440669.42	1970 Mar 23 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1970-W435	2440669.43	1970 Mar 23 2224:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1970-W436	2440669.56	1970 Mar 24 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-A39	2440669.58	1970 Mar 24 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W437	2440670.04	1970 Mar 24 1302:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-A40	2440670.15	1970 Mar 24 1531:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	49	-	-
1970-W438	2440670.28	1970 Mar 24 1840:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W439	2440670.31	1970 Mar 24 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	51	-	-
1970-W440	2440670.34	1970 Mar 24 2003:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1970-W441	2440671.05	1970 Mar 25 1304:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1970-W442	2440671.08	1970 Mar 25 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W443	2440671.12	1970 Mar 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1970-A41	2440671.16	1970 Mar 25 1551:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	49	-	-
1970-W445	2440671.17	1970 Mar 25 1606:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W446	2440671.20	1970 Mar 25 1652:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1970-W447	2440671.29	1970 Mar 25 1901:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1970-W448	2440671.30	1970 Mar 25 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-A42	2440671.33	1970 Mar 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	47	-	-
1970-W449	2440671.33	1970 Mar 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-A43	2440671.34	1970 Mar 25 2003:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	44	-	-
1970-Y106	2440671.35	1970 Mar 25 2030:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	91	-	-
1970-W450	2440671.57	1970 Mar 26 0135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W451	2440671.91	1970 Mar 26 0945:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W452	2440672.38	1970 Mar 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1970-W454	2440673.10	1970 Mar 27 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1970-W455	2440673.12	1970 Mar 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1970-W456	2440673.17	1970 Mar 27 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W458	2440673.29	1970 Mar 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1970-W459	2440673.56	1970 Mar 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-A44	2440676.08	1970 Mar 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	47	-	-
1970-A45	2440676.10	1970 Mar 30 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1970-W461	2440676.12	1970 Mar 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1970-W462	2440676.18	1970 Mar 30 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1970-W463	2440676.24	1970 Mar 30 1749:59	Rocketsonde	-	-	Chaff	-	-	-	SHER	-	-	-	66	-	-
1970-A46	2440676.34	1970 Mar 30 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W464	2440676.38	1970 Mar 30 2111:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1970-W465	2440676.57	1970 Mar 31 0138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W467	2440677.30	1970 Mar 31 1910:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-W468	2440677.39	1970 Mar 31 2127:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W469	2440678.08	1970 Apr 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-A48	2440678.09	1970 Apr 1 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1970-W470	2440678.12	1970 Apr 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W471	2440678.15	1970 Apr 1 1531:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W472	2440678.19	1970 Apr 1 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W473	2440678.19	1970 Apr 1 1640:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1970-W474	2440678.20	1970 Apr 1 1652:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	69	-	-
1970-W475	2440678.29	1970 Apr 1 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W476	2440678.33	1970 Apr 1 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W477	2440678.42	1970 Apr 1 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W479	2440678.56	1970 Apr 2 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W480	2440679.33	1970 Apr 2 1951:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W481	2440679.74	1970 Apr 3 0545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W482	2440680.10	1970 Apr 3 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W483	2440680.10	1970 Apr 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W484	2440680.22	1970 Apr 3 1719:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1970-W485	2440680.25	1970 Apr 3 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-W486	2440680.29	1970 Apr 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W487	2440680.40	1970 Apr 3 2133:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1970-A49	2440680.42	1970 Apr 3 2209:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	47	-	-
1970-A50	2440680.57	1970 Apr 4 0145:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	48	-	-
1970-W488	2440680.59	1970 Apr 4 0210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	50	-	-
1970-W489	2440683.09	1970 Apr 6 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1970-W490	2440683.12	1970 Apr 6 1459:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	62	-	-
1970-W491	2440683.12	1970 Apr 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W492	2440683.21	1970 Apr 6 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W494	2440683.31	1970 Apr 6 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1970-W495	2440683.33	1970 Apr 6 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1970-W496	2440683.42	1970 Apr 6 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W497	2440684.03	1970 Apr 7 1237:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W498	2440684.10	1970 Apr 7 1427:59	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	67	-	-
1970-W500	2440684.25	1970 Apr 7 1800:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	66	-	-
1970-W501	2440684.35	1970 Apr 7 2026:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-W502	2440685.12	1970 Apr 8 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W503	2440685.13	1970 Apr 8 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W505	2440685.21	1970 Apr 8 1707:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W506	2440685.25	1970 Apr 8 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1970-W507	2440685.27	1970 Apr 8 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	61	-	-
1970-Y126	2440685.29	1970 Apr 8 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	82	-	-
1970-W508	2440685.34	1970 Apr 8 2012:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-A51	2440685.39	1970 Apr 8 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	49	-	-
1970-A52	2440685.48	1970 Apr 8 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W509	2440685.56	1970 Apr 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W510	2440686.13	1970 Apr 9 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-W511	2440686.13	1970 Apr 9 1511:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-Y129	2440686.15	1970 Apr 9 1530:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1970-Y130	2440686.17	1970 Apr 9 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	99	-	-
1970-Y131	2440686.19	1970 Apr 9 1630:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	80	-	-
1970-A53	2440686.20	1970 Apr 9 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	49	-	-
1970-W513	2440686.28	1970 Apr 9 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1970-W514	2440686.33	1970 Apr 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W515	2440686.35	1970 Apr 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W516	2440687.08	1970 Apr 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W517	2440687.22	1970 Apr 10 1720:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W518	2440687.24	1970 Apr 10 1748:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W519	2440687.26	1970 Apr 10 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W520	2440687.33	1970 Apr 10 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W522	2440687.38	1970 Apr 10 2110:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W523	2440687.46	1970 Apr 10 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W524	2440687.50	1970 Apr 11 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W525	2440688.37	1970 Apr 11 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W527	2440690.08	1970 Apr 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W528	2440690.10	1970 Apr 13 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1970-W529	2440690.12	1970 Apr 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W530	2440690.25	1970 Apr 13 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W531	2440690.29	1970 Apr 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W532	2440690.31	1970 Apr 13 1932:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W533	2440690.33	1970 Apr 13 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W534	2440690.38	1970 Apr 13 2110:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	53	-	-
1970-W535	2440691.02	1970 Apr 14 1235:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W536	2440691.20	1970 Apr 14 1641:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	52	-	-
1970-W537	2440691.33	1970 Apr 14 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W538	2440691.42	1970 Apr 14 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W539	2440692.06	1970 Apr 15 1324:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W541	2440692.08	1970 Apr 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W543	2440692.12	1970 Apr 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W545	2440692.26	1970 Apr 15 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1970-W546	2440692.29	1970 Apr 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W547	2440692.33	1970 Apr 15 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-Y146	2440692.34	1970 Apr 15 2003:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	96	-	-
1970-W548	2440692.35	1970 Apr 15 2029:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W549	2440692.37	1970 Apr 15 2053:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	60	-	-
1970-W550	2440692.49	1970 Apr 15 2348:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W551	2440692.56	1970 Apr 16 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W553	2440693.21	1970 Apr 16 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W555	2440693.22	1970 Apr 16 1713:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	62	-	-
1970-W556	2440693.30	1970 Apr 16 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1970-W557	2440693.38	1970 Apr 16 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1970-A54	2440693.42	1970 Apr 16 2201:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1970-W558	2440694.08	1970 Apr 17 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1970-W559	2440694.12	1970 Apr 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W561	2440694.27	1970 Apr 17 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W563	2440694.29	1970 Apr 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1970-W564	2440694.30	1970 Apr 17 1914:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	65	-	-
1970-W565	2440694.32	1970 Apr 17 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W566	2440694.33	1970 Apr 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W567	2440694.34	1970 Apr 17 2015:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	64	-	-
1970-W568	2440694.42	1970 Apr 17 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-A56	2440697.09	1970 Apr 20 1413:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	41	-	-
1970-W569	2440697.12	1970 Apr 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W571	2440697.25	1970 Apr 20 1802:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1970-W572	2440697.29	1970 Apr 20 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1970-W573	2440697.31	1970 Apr 20 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W574	2440698.27	1970 Apr 21 1830:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	57	-	-
1970-W575	2440698.33	1970 Apr 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W577	2440699.08	1970 Apr 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W578	2440699.12	1970 Apr 22 1458:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1970-W579	2440699.12	1970 Apr 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W580	2440699.24	1970 Apr 22 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W581	2440699.25	1970 Apr 22 1804:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1970-W582	2440699.26	1970 Apr 22 1810:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-A57	2440699.27	1970 Apr 22 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	43	-	-
1970-W583	2440699.28	1970 Apr 22 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W584	2440699.33	1970 Apr 22 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1970-W585	2440699.42	1970 Apr 22 2206:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W586	2440699.56	1970 Apr 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W587	2440700.30	1970 Apr 23 1913:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-W588	2440700.36	1970 Apr 23 2034:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W589	2440700.39	1970 Apr 23 2122:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W590	2440700.65	1970 Apr 24 0334:59	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	63	-	-
1970-W591	2440700.86	1970 Apr 24 0845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	56	-	-
1970-W592	2440701.08	1970 Apr 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W593	2440701.12	1970 Apr 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W594	2440701.14	1970 Apr 24 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W595	2440701.25	1970 Apr 24 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W596	2440701.27	1970 Apr 24 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W597	2440701.29	1970 Apr 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W598	2440701.33	1970 Apr 24 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W599	2440701.40	1970 Apr 24 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-W600	2440701.42	1970 Apr 24 2200:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1970-W601	2440704.08	1970 Apr 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W602	2440704.11	1970 Apr 27 1434:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W603	2440704.15	1970 Apr 27 1540:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W604	2440704.24	1970 Apr 27 1748:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1970-W605	2440704.25	1970 Apr 27 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W606	2440704.29	1970 Apr 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W607	2440704.45	1970 Apr 27 2244:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W608	2440705.14	1970 Apr 28 1525:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	57	-	-
1970-W609	2440705.23	1970 Apr 28 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	56	-	-
1970-W610	2440705.32	1970 Apr 28 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W611	2440705.42	1970 Apr 28 2206:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W612	2440706.00	1970 Apr 29 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W613	2440706.13	1970 Apr 29 1507:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	64	-	-
1970-W615	2440706.22	1970 Apr 29 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W616	2440706.23	1970 Apr 29 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W617	2440706.24	1970 Apr 29 1748:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W618	2440706.25	1970 Apr 29 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W619	2440706.26	1970 Apr 29 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-A60	2440706.29	1970 Apr 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	47	-	-
1970-W620	2440706.35	1970 Apr 29 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1970-W621	2440706.49	1970 Apr 29 2340:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W627	2440707.10	1970 Apr 30 1417:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	73	-	-
1970-W628	2440707.22	1970 Apr 30 1715:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	71	-	-
1970-W629	2440707.23	1970 Apr 30 1725:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	51	-	-
1970-W630	2440707.42	1970 Apr 30 2159:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	67	-	-
1970-W631	2440708.08	1970 May 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W632	2440708.10	1970 May 1 1421:00	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	CC	LC43	-	-	70	-	-
1970-W633	2440708.15	1970 May 1 1538:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-W634	2440708.17	1970 May 1 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1970-W635	2440708.25	1970 May 1 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W636	2440708.27	1970 May 1 1826:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1970-W637	2440708.29	1970 May 1 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W638	2440711.08	1970 May 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-A61	2440711.18	1970 May 4 1620:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	46	-	-
1970-W639	2440711.23	1970 May 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W640	2440711.25	1970 May 4 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1970-W641	2440711.26	1970 May 4 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1970-W642	2440711.29	1970 May 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W643	2440711.37	1970 May 4 2057:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	PM	-	-	-	60	-	-
1970-W644	2440712.15	1970 May 5 1541:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-W645	2440712.19	1970 May 5 1630:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1970-W646	2440712.21	1970 May 5 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W647	2440712.42	1970 May 5 2210:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	57	-	-
1970-A62	2440712.92	1970 May 6 0959:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	45	-	-
1970-W649	2440712.93	1970 May 6 1021:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W650	2440713.08	1970 May 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1970-W651	2440713.11	1970 May 6 1436:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1970-W652	2440713.16	1970 May 6 1553:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W653	2440713.21	1970 May 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W654	2440713.22	1970 May 6 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W655	2440713.27	1970 May 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1970-W656	2440713.28	1970 May 6 1845:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-W657	2440713.29	1970 May 6 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-W658	2440713.29	1970 May 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W659	2440713.58	1970 May 7 0154:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1970-W660	2440714.43	1970 May 7 2213:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	63	-	-
1970-W661	2440715.05	1970 May 8 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W662	2440715.08	1970 May 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W663	2440715.08	1970 May 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W664	2440715.09	1970 May 8 1411:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W665	2440715.25	1970 May 8 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W667	2440715.35	1970 May 8 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W668	2440716.23	1970 May 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W669	2440718.08	1970 May 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W670	2440718.16	1970 May 11 1545:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W671	2440718.17	1970 May 11 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W672	2440718.19	1970 May 11 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W673	2440718.21	1970 May 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W674	2440718.26	1970 May 11 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1970-W675	2440718.29	1970 May 11 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W676	2440718.45	1970 May 11 2243:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W677	2440719.21	1970 May 12 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1970-W678	2440719.27	1970 May 12 1825:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-W679	2440719.45	1970 May 12 2243:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W681	2440720.07	1970 May 13 1337:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1970-W682	2440720.08	1970 May 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W683	2440720.10	1970 May 13 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1970-W684	2440720.17	1970 May 13 1607:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-W685	2440720.19	1970 May 13 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W686	2440720.21	1970 May 13 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1970-W687	2440720.23	1970 May 13 1736:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1970-W689	2440720.25	1970 May 13 1757:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	64	-	-
1970-W690	2440720.25	1970 May 13 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W691	2440720.29	1970 May 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W692	2440720.30	1970 May 13 1918:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	70	-	-
1970-W693	2440720.44	1970 May 13 2227:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	57	-	-
1970-W695	2440720.56	1970 May 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W696	2440721.23	1970 May 14 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1970-W697	2440721.33	1970 May 14 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W698	2440721.42	1970 May 14 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	51	-	-
1970-W699	2440721.43	1970 May 14 2219:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W700	2440722.07	1970 May 15 1340:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W701	2440722.08	1970 May 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1970-W702	2440722.08	1970 May 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W703	2440722.13	1970 May 15 1503:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W704	2440722.14	1970 May 15 1519:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	66	-	-
1970-W705	2440722.21	1970 May 15 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W707	2440722.29	1970 May 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W708	2440722.29	1970 May 15 1900:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	PM	-	-	-	59	-	-
1970-W709	2440722.42	1970 May 15 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	62	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W710	2440725.08	1970 May 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W711	2440725.09	1970 May 18 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W712	2440725.11	1970 May 18 1438:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W713	2440725.16	1970 May 18 1551:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	PM	-	-	-	58	-	-
1970-W714	2440725.20	1970 May 18 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W715	2440725.23	1970 May 18 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1970-W716	2440725.27	1970 May 18 1830:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1970-W717	2440725.42	1970 May 18 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W718	2440725.56	1970 May 19 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W719	2440726.21	1970 May 19 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1970-W720	2440726.23	1970 May 19 1737:00	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	CC	LC43	-	-	64	-	-
1970-W721	2440726.29	1970 May 19 1856:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-W722	2440726.42	1970 May 19 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1970-W724	2440727.08	1970 May 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W725	2440727.08	1970 May 20 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1970-W726	2440727.09	1970 May 20 1407:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	52	-	-
1970-W727	2440727.09	1970 May 20 1407:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W728	2440727.09	1970 May 20 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1970-W729	2440727.09	1970 May 20 1412:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1970-W730	2440727.10	1970 May 20 1422:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	64	-	-
1970-W731	2440727.17	1970 May 20 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W733	2440727.21	1970 May 20 1700:00	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	CC	LC43	-	-	70	-	-
1970-W734	2440727.22	1970 May 20 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W735	2440727.25	1970 May 20 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1970-W736	2440727.25	1970 May 20 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W737	2440727.32	1970 May 20 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W738	2440727.56	1970 May 21 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W739	2440728.11	1970 May 21 1436:00	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	CC	LC43	-	-	70	-	-
1970-W740	2440728.22	1970 May 21 1712:00	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	CC	LC43	-	-	73	-	-
1970-A63	2440728.34	1970 May 21 2010:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	42	-	-
1970-W741	2440728.38	1970 May 21 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-A64	2440728.55	1970 May 22 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W742	2440729.05	1970 May 22 1314:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1970-W743	2440729.08	1970 May 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1970-W744	2440729.09	1970 May 22 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W745	2440729.21	1970 May 22 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W746	2440729.23	1970 May 22 1730:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	PM	-	-	-	59	-	-
1970-W748	2440729.25	1970 May 22 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-A65	2440729.29	1970 May 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W749	2440729.35	1970 May 22 2030:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	71	-	-
1970-W750	2440729.42	1970 May 22 2201:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W751	2440731.75	1970 May 25 0600:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	50	-	-
1970-W753	2440732.08	1970 May 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W754	2440732.08	1970 May 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1970-W755	2440732.18	1970 May 25 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W756	2440732.21	1970 May 25 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1970-W757	2440732.23	1970 May 25 1731:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W758	2440732.25	1970 May 25 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1970-W759	2440732.26	1970 May 25 1812:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1970-A66	2440732.31	1970 May 25 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W761	2440732.38	1970 May 25 2103:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	57	-	-
1970-W762	2440732.40	1970 May 25 2132:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1970-W763	2440732.42	1970 May 25 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W766	2440732.56	1970 May 26 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W767	2440732.57	1970 May 26 0140:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	57	-	-
1970-W769	2440732.65	1970 May 26 0340:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	57	-	-
1970-W771	2440733.18	1970 May 26 1614:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W772	2440733.42	1970 May 26 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	51	-	-
1970-W773	2440733.90	1970 May 27 0933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W775	2440734.02	1970 May 27 1224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W776	2440734.09	1970 May 27 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1970-W777	2440734.10	1970 May 27 1427:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	62	-	-
1970-W778	2440734.21	1970 May 27 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1970-W779	2440734.23	1970 May 27 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W780	2440734.25	1970 May 27 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W781	2440734.25	1970 May 27 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1970-W782	2440734.29	1970 May 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W783	2440734.56	1970 May 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W784	2440735.10	1970 May 28 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1970-W785	2440735.12	1970 May 28 1455:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1970-W786	2440735.13	1970 May 28 1501:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1970-W787	2440735.25	1970 May 28 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W788	2440736.27	1970 May 29 1835:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-W789	2440739.06	1970 Jun 1 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1970-W790	2440739.08	1970 Jun 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W791	2440739.14	1970 Jun 1 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W792	2440739.21	1970 Jun 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W793	2440739.21	1970 Jun 1 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1970-W794	2440739.22	1970 Jun 1 1714:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1970-W795	2440739.24	1970 Jun 1 1742:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	56	-	-
1970-W796	2440739.29	1970 Jun 1 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W797	2440739.42	1970 Jun 1 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W798	2440739.56	1970 Jun 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-A68	2440740.14	1970 Jun 2 1514:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1970-W799	2440740.31	1970 Jun 2 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1970-W800	2440740.42	1970 Jun 2 2204:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W801	2440740.62	1970 Jun 3 0255:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1970-W803	2440741.08	1970 Jun 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W804	2440741.08	1970 Jun 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W805	2440741.09	1970 Jun 3 1408:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W806	2440741.10	1970 Jun 3 1430:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1970-W807	2440741.12	1970 Jun 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W809	2440741.23	1970 Jun 3 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W810	2440741.24	1970 Jun 3 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	53	-	-
1970-W811	2440741.25	1970 Jun 3 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W812	2440741.29	1970 Jun 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1970-W813	2440741.34	1970 Jun 3 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W814	2440741.37	1970 Jun 3 2058:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	52	-	-
1970-W815	2440741.43	1970 Jun 3 2224:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-Y174	2440742.15	1970 Jun 4 1530:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1970-W816	2440742.39	1970 Jun 4 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-A69	2440742.42	1970 Jun 4 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1970-W817	2440742.59	1970 Jun 5 0210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W818	2440743.08	1970 Jun 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W819	2440743.09	1970 Jun 5 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W820	2440743.10	1970 Jun 5 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1970-W821	2440743.11	1970 Jun 5 1444:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1970-W822	2440743.13	1970 Jun 5 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W823	2440743.16	1970 Jun 5 1548:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1970-W824	2440743.17	1970 Jun 5 1559:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1970-W825	2440743.29	1970 Jun 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W826	2440743.36	1970 Jun 5 2040:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1970-W827	2440743.42	1970 Jun 5 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W828	2440746.04	1970 Jun 8 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W829	2440746.08	1970 Jun 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W830	2440746.12	1970 Jun 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W831	2440746.15	1970 Jun 8 1533:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W832	2440746.19	1970 Jun 8 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W833	2440746.21	1970 Jun 8 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1970-W834	2440746.29	1970 Jun 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1970-W835	2440746.43	1970 Jun 8 2217:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W836	2440746.56	1970 Jun 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W837	2440747.05	1970 Jun 9 1307:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W838	2440747.22	1970 Jun 9 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1970-W839	2440747.23	1970 Jun 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W840	2440747.30	1970 Jun 9 1911:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1970-W841	2440747.42	1970 Jun 9 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W843	2440748.04	1970 Jun 10 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W844	2440748.07	1970 Jun 10 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-W845	2440748.08	1970 Jun 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W846	2440748.12	1970 Jun 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W847	2440748.17	1970 Jun 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1970-W848	2440748.19	1970 Jun 10 1637:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-A71	2440748.25	1970 Jun 10 1800:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1970-W849	2440748.26	1970 Jun 10 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-W851	2440748.43	1970 Jun 10 2225:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W852	2440748.56	1970 Jun 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W853	2440749.12	1970 Jun 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W854	2440749.16	1970 Jun 11 1545:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W855	2440749.20	1970 Jun 11 1648:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1970-A72	2440749.29	1970 Jun 11 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	49	-	-
1970-W856	2440749.35	1970 Jun 11 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W857	2440749.42	1970 Jun 11 2209:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W858	2440750.08	1970 Jun 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W859	2440750.19	1970 Jun 12 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W860	2440750.19	1970 Jun 12 1640:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1970-W861	2440750.22	1970 Jun 12 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W862	2440750.29	1970 Jun 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W863	2440750.56	1970 Jun 13 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W864	2440753.04	1970 Jun 15 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W865	2440753.12	1970 Jun 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W866	2440753.12	1970 Jun 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W867	2440753.17	1970 Jun 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W868	2440753.18	1970 Jun 15 1613:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1970-W869	2440753.21	1970 Jun 15 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1970-W870	2440753.29	1970 Jun 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W871	2440753.43	1970 Jun 15 2222:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W872	2440753.56	1970 Jun 16 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W873	2440754.15	1970 Jun 16 1533:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1970-W874	2440754.22	1970 Jun 16 1713:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	65	-	-
1970-W875	2440754.24	1970 Jun 16 1740:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	68	-	-
1970-W876	2440754.31	1970 Jun 16 1930:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W877	2440754.40	1970 Jun 16 2138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W878	2440754.43	1970 Jun 16 2221:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	67	-	-
1970-W880	2440755.08	1970 Jun 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W882	2440755.12	1970 Jun 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W883	2440755.14	1970 Jun 17 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W884	2440755.15	1970 Jun 17 1537:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	68	-	-
1970-W885	2440755.17	1970 Jun 17 1607:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W886	2440755.19	1970 Jun 17 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1970-W888	2440755.21	1970 Jun 17 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1970-W889	2440755.23	1970 Jun 17 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W890	2440755.24	1970 Jun 17 1741:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1970-W891	2440755.25	1970 Jun 17 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W892	2440755.26	1970 Jun 17 1819:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W893	2440755.28	1970 Jun 17 1846:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	64	-	-
1970-W894	2440755.29	1970 Jun 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W895	2440755.33	1970 Jun 17 1952:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1970-W896	2440755.56	1970 Jun 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W897	2440756.22	1970 Jun 18 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1970-W898	2440756.28	1970 Jun 18 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1970-W899	2440756.30	1970 Jun 18 1908:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W900	2440756.31	1970 Jun 18 1925:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W901	2440756.35	1970 Jun 18 2021:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W903	2440757.08	1970 Jun 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W904	2440757.09	1970 Jun 19 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W905	2440757.09	1970 Jun 19 1406:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W906	2440757.12	1970 Jun 19 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W907	2440757.14	1970 Jun 19 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1970-W908	2440757.21	1970 Jun 19 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W909	2440757.33	1970 Jun 19 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	51	-	-
1970-W910	2440757.43	1970 Jun 19 2224:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W911	2440757.56	1970 Jun 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W912	2440758.00	1970 Jun 20 1156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W913	2440760.08	1970 Jun 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W914	2440760.12	1970 Jun 22 1452:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W915	2440760.12	1970 Jun 22 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W916	2440760.12	1970 Jun 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W917	2440760.16	1970 Jun 22 1554:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W918	2440760.18	1970 Jun 22 1613:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	51	-	-
1970-W919	2440760.19	1970 Jun 22 1637:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	52	-	-
1970-W920	2440760.21	1970 Jun 22 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1970-W921	2440760.42	1970 Jun 22 2207:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1970-W922	2440760.57	1970 Jun 23 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1970-W923	2440761.10	1970 Jun 23 1430:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	57	-	-
1970-W924	2440761.20	1970 Jun 23 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1970-A75	2440761.20	1970 Jun 23 1649:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	49	-	-
1970-W925	2440761.29	1970 Jun 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W926	2440761.42	1970 Jun 23 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	55	-	-
1970-W928	2440762.08	1970 Jun 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	54	-	-
1970-W929	2440762.10	1970 Jun 24 1420:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1970-A76	2440762.10	1970 Jun 24 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1970-W930	2440762.10	1970 Jun 24 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W931	2440762.12	1970 Jun 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W932	2440762.14	1970 Jun 24 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1970-W933	2440762.21	1970 Jun 24 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	75	-	-
1970-W934	2440762.26	1970 Jun 24 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1970-W935	2440762.29	1970 Jun 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1970-W936	2440762.35	1970 Jun 24 2026:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W937	2440762.37	1970 Jun 24 2054:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	67	-	-
1970-W938	2440762.42	1970 Jun 24 2202:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W939	2440763.14	1970 Jun 25 1526:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1970-W940	2440763.16	1970 Jun 25 1548:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W941	2440763.28	1970 Jun 25 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1970-W942	2440763.41	1970 Jun 25 2145:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1970-W943	2440764.08	1970 Jun 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	54	-	-
1970-W944	2440764.12	1970 Jun 26 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1970-W945	2440764.12	1970 Jun 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1970-W946	2440764.28	1970 Jun 26 1840:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W947	2440764.28	1970 Jun 26 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1970-W948	2440764.31	1970 Jun 26 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W949	2440764.31	1970 Jun 26 1930:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1970-A77	2440764.52	1970 Jun 27 0022:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1970-W950	2440767.07	1970 Jun 29 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1970-W951	2440767.08	1970 Jun 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W952	2440767.12	1970 Jun 29 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1970-W953	2440767.12	1970 Jun 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W954	2440767.17	1970 Jun 29 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W955	2440767.18	1970 Jun 29 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W956	2440767.21	1970 Jun 29 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1970-A79	2440767.42	1970 Jun 29 2208:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1970-W957	2440767.47	1970 Jun 29 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W958	2440767.56	1970 Jun 30 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W959	2440767.63	1970 Jun 30 0307:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W960	2440768.12	1970 Jun 30 1456:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1970-A80	2440768.18	1970 Jun 30 1613:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	49	-	-
1970-A81	2440768.42	1970 Jun 30 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	48	-	-
1970-W962	2440769.06	1970 Jul 1 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W963	2440769.08	1970 Jul 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1970-W964	2440769.10	1970 Jul 1 1425:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	63	-	-
1970-W965	2440769.12	1970 Jul 1 1447:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	50	-	-
1970-W966	2440769.12	1970 Jul 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W967	2440769.13	1970 Jul 1 1504:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	65	-	-
1970-W968	2440769.19	1970 Jul 1 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W969	2440769.21	1970 Jul 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-A82	2440769.25	1970 Jul 1 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	39	-	-
1970-A83	2440769.29	1970 Jul 1 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1970-W970	2440769.29	1970 Jul 1 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W971	2440769.34	1970 Jul 1 2012:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	59	-	-
1970-W972	2440769.38	1970 Jul 1 2112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1970-W973	2440769.52	1970 Jul 2 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W974	2440769.56	1970 Jul 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W975	2440770.12	1970 Jul 2 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W976	2440770.16	1970 Jul 2 1547:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1970-W977	2440770.33	1970 Jul 2 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	67	-	-
1970-W978	2440770.42	1970 Jul 2 2200:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W979	2440771.56	1970 Jul 4 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1970-W980	2440774.04	1970 Jul 6 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-A85	2440774.08	1970 Jul 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	49	-	-
1970-W981	2440774.10	1970 Jul 6 1421:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-W982	2440774.12	1970 Jul 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W983	2440774.17	1970 Jul 6 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W984	2440774.19	1970 Jul 6 1630:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	65	-	-
1970-W985	2440774.21	1970 Jul 6 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1970-A86	2440774.28	1970 Jul 6 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W986	2440774.42	1970 Jul 6 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W987	2440775.15	1970 Jul 7 1533:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W988	2440775.46	1970 Jul 7 2302:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W989	2440776.04	1970 Jul 8 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W990	2440776.08	1970 Jul 8 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1970-W991	2440776.08	1970 Jul 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W992	2440776.12	1970 Jul 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W993	2440776.16	1970 Jul 8 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W994	2440776.18	1970 Jul 8 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W995	2440776.23	1970 Jul 8 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W996	2440776.25	1970 Jul 8 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1970-W997	2440776.29	1970 Jul 8 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W998	2440776.40	1970 Jul 8 2142:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1000	2440776.59	1970 Jul 9 0208:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1001	2440777.16	1970 Jul 9 1545:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W1002	2440777.42	1970 Jul 9 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W1003	2440778.04	1970 Jul 10 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1004	2440778.08	1970 Jul 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1005	2440778.20	1970 Jul 10 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1970-W1006	2440778.21	1970 Jul 10 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W1007	2440778.21	1970 Jul 10 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1970-W1008	2440778.21	1970 Jul 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1970-W1009	2440778.56	1970 Jul 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1010	2440781.04	1970 Jul 13 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1011	2440781.08	1970 Jul 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W1012	2440781.18	1970 Jul 13 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1013	2440781.18	1970 Jul 13 1621:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1014	2440781.19	1970 Jul 13 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W1015	2440781.21	1970 Jul 13 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W1016	2440781.21	1970 Jul 13 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-W1017	2440781.21	1970 Jul 13 1707:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1970-W1018	2440781.29	1970 Jul 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W1019	2440781.38	1970 Jul 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1020	2440781.56	1970 Jul 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1021	2440782.09	1970 Jul 14 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	69	-	-
1970-W1022	2440782.19	1970 Jul 14 1629:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	68	-	-
1970-A87	2440782.38	1970 Jul 14 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1970-W1023	2440782.44	1970 Jul 14 2234:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1970-W1024	2440782.59	1970 Jul 15 0215:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W1025	2440783.05	1970 Jul 15 1311:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W1026	2440783.10	1970 Jul 15 1430:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1970-W1027	2440783.10	1970 Jul 15 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W1028	2440783.12	1970 Jul 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1030	2440783.24	1970 Jul 15 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W1031	2440783.29	1970 Jul 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W1032	2440783.38	1970 Jul 15 2100:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1034	2440783.58	1970 Jul 16 0153:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1035	2440784.18	1970 Jul 16 1625:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1970-W1036	2440784.22	1970 Jul 16 1719:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1037	2440784.24	1970 Jul 16 1746:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1038	2440784.38	1970 Jul 16 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W1039	2440785.04	1970 Jul 17 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W03	2440956.08	1971 Jan 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W04	2440956.08	1971 Jan 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W06	2440956.31	1971 Jan 4 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W07	2440956.58	1971 Jan 5 0156:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1971-W09	2440957.33	1971 Jan 5 2000:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	70	-	-
1971-Y04	2440957.92	1971 Jan 6 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	94	-	-
1971-A01	2440958.08	1971 Jan 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	47	-	-
1971-W10	2440958.09	1971 Jan 6 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W11	2440958.12	1971 Jan 6 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1971-W12	2440958.25	1971 Jan 6 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W13	2440958.32	1971 Jan 6 1941:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W14	2440958.34	1971 Jan 6 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-A03	2440958.57	1971 Jan 7 0138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	48	-	-
1971-W16	2440959.29	1971 Jan 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W18	2440959.38	1971 Jan 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W19	2440959.38	1971 Jan 7 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1971-W20	2440960.08	1971 Jan 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W22	2440960.13	1971 Jan 8 1504:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	55	-	-
1971-Y08	2440960.17	1971 Jan 8 1610:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W23	2440960.18	1971 Jan 8 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1971-W24	2440960.21	1971 Jan 8 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W25	2440960.24	1971 Jan 8 1745:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	62	-	-
1971-W26	2440960.25	1971 Jan 8 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	51	-	-
1971-W27	2440960.25	1971 Jan 8 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1971-W31	2440960.56	1971 Jan 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W32	2440961.12	1971 Jan 9 1456:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	63	-	-
1971-W33	2440961.61	1971 Jan 10 0240:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	69	-	-
1971-A04	2440962.14	1971 Jan 10 1524:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	43	-	-
1971-W34	2440963.08	1971 Jan 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W35	2440963.09	1971 Jan 11 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1971-A05	2440963.11	1971 Jan 11 1435:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	40	-	-
1971-A06	2440963.21	1971 Jan 11 1700:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	46	-	-
1971-W36	2440963.22	1971 Jan 11 1715:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W37	2440963.28	1971 Jan 11 1845:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W38	2440963.29	1971 Jan 11 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W40	2440964.08	1971 Jan 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W41	2440964.17	1971 Jan 12 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1971-W43	2440964.26	1971 Jan 12 1818:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	59	-	-
1971-W44	2440964.30	1971 Jan 12 1914:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1971-W46	2440964.39	1971 Jan 12 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W47	2440964.63	1971 Jan 13 0304:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	50	-	-
1971-W48	2440964.69	1971 Jan 13 0427:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-W50	2440965.08	1971 Jan 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W51	2440965.11	1971 Jan 13 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W52	2440965.14	1971 Jan 13 1524:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1971-W53	2440965.17	1971 Jan 13 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1971-Y18	2440965.17	1971 Jan 13 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	104	-	-
1971-W55	2440965.27	1971 Jan 13 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	60	-	-
1971-W56	2440965.28	1971 Jan 13 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1971-A07	2440965.31	1971 Jan 13 1929:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	49	-	-
1971-W58	2440965.32	1971 Jan 13 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W59	2440965.56	1971 Jan 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1971-W60	2440965.62	1971 Jan 14 0252:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	63	-	-
1971-A09	2440966.08	1971 Jan 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	48	-	-
1971-W62	2440966.19	1971 Jan 14 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1971-W63	2440966.24	1971 Jan 14 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W64	2440966.24	1971 Jan 14 1749:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	55	-	-
1971-W65	2440966.30	1971 Jan 14 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W66	2440966.43	1971 Jan 14 2217:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	50	-	-
1971-W67	2440966.45	1971 Jan 14 2252:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	51	-	-
1971-W68	2440966.66	1971 Jan 15 0351:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W69	2440966.67	1971 Jan 15 0402:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W70	2440967.09	1971 Jan 15 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W72	2440967.17	1971 Jan 15 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1971-W74	2440967.18	1971 Jan 15 1624:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	72	-	-
1971-W75	2440967.37	1971 Jan 15 2057:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W77	2440967.56	1971 Jan 16 0119:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W78	2440967.58	1971 Jan 16 0151:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W79	2440968.13	1971 Jan 16 1504:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1971-W80	2440969.15	1971 Jan 17 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W81	2440970.08	1971 Jan 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W82	2440970.08	1971 Jan 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W83	2440970.24	1971 Jan 18 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W84	2440970.25	1971 Jan 18 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1971-W85	2440970.27	1971 Jan 18 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W86	2440970.29	1971 Jan 18 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W87	2440970.33	1971 Jan 18 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W88	2440970.50	1971 Jan 19 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W90	2440970.56	1971 Jan 19 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W91	2440970.67	1971 Jan 19 0409:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W92	2440971.08	1971 Jan 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W94	2440971.25	1971 Jan 19 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1971-W95	2440971.31	1971 Jan 19 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W96	2440971.33	1971 Jan 19 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W98	2440971.50	1971 Jan 20 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W100	2440972.08	1971 Jan 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	51	-	-
1971-W101	2440972.10	1971 Jan 20 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W102	2440972.13	1971 Jan 20 1504:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	69	-	-
1971-Y33	2440972.19	1971 Jan 20 1632:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	92	-	-
1971-W103	2440972.21	1971 Jan 20 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W104	2440972.23	1971 Jan 20 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W105	2440972.26	1971 Jan 20 1812:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W106	2440972.27	1971 Jan 20 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1971-W107	2440972.27	1971 Jan 20 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	68	-	-
1971-W108	2440972.29	1971 Jan 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W109	2440972.31	1971 Jan 20 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W110	2440972.56	1971 Jan 21 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1971-W113	2440973.25	1971 Jan 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W114	2440973.27	1971 Jan 21 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W115	2440973.29	1971 Jan 21 1901:59	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	65	-	-
1971-W116	2440973.32	1971 Jan 21 1937:59	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	64	-	-
1971-W117	2440973.37	1971 Jan 21 2048:59	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	66	-	-
1971-W118	2440973.43	1971 Jan 21 2215:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W122	2440974.17	1971 Jan 22 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W123	2440974.27	1971 Jan 22 1822:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W126	2440974.50	1971 Jan 23 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-A11	2440974.51	1971 Jan 23 0014:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	46	-	-
1971-Y39	2440974.52	1971 Jan 23 0027:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W128	2440974.56	1971 Jan 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1971-W132	2440977.08	1971 Jan 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W134	2440977.17	1971 Jan 25 1559:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	69	-	-
1971-W135	2440977.19	1971 Jan 25 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W136	2440977.22	1971 Jan 25 1715:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1971-W137	2440977.25	1971 Jan 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1971-W138	2440977.30	1971 Jan 25 1911:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1971-W139	2440977.33	1971 Jan 25 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W140	2440977.37	1971 Jan 25 2056:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-W143	2440977.56	1971 Jan 26 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W144	2440978.22	1971 Jan 26 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W146	2440978.34	1971 Jan 26 2015:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	56	-	-
1971-W148	2440978.44	1971 Jan 26 2230:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1971-Y44	2440978.92	1971 Jan 27 1004:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	96	-	-
1971-W149	2440979.08	1971 Jan 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W150	2440979.10	1971 Jan 27 1422:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	63	-	-
1971-W151	2440979.15	1971 Jan 27 1534:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	52	-	-
1971-W153	2440979.25	1971 Jan 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W154	2440979.27	1971 Jan 27 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	50	-	-
1971-W155	2440979.27	1971 Jan 27 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1971-W156	2440979.29	1971 Jan 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W157	2440979.34	1971 Jan 27 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W158	2440979.34	1971 Jan 27 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1971-W160	2440979.57	1971 Jan 28 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W161	2440980.27	1971 Jan 28 1824:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	61	-	-
1971-W162	2440980.30	1971 Jan 28 1904:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1971-W163	2440980.34	1971 Jan 28 2013:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1971-W164	2440980.35	1971 Jan 28 2026:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	58	-	-
1971-W165	2440980.37	1971 Jan 28 2059:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W166	2440980.39	1971 Jan 28 2114:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	68	-	-
1971-W167	2440981.08	1971 Jan 29 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W168	2440981.12	1971 Jan 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W169	2440981.15	1971 Jan 29 1537:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	63	-	-
1971-W170	2440981.16	1971 Jan 29 1551:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	67	-	-
1971-W171	2440981.16	1971 Jan 29 1553:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W172	2440981.19	1971 Jan 29 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W174	2440981.28	1971 Jan 29 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1971-W175	2440981.57	1971 Jan 30 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W176	2440982.08	1971 Jan 30 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W178	2440983.46	1971 Jan 31 2309:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W180	2440984.08	1971 Feb 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W182	2440984.21	1971 Feb 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-W183	2440984.25	1971 Feb 1 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1971-W184	2440984.25	1971 Feb 1 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W185	2440984.30	1971 Feb 1 1911:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W186	2440984.30	1971 Feb 1 1914:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	67	-	-
1971-W188	2440984.38	1971 Feb 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-W189	2440984.41	1971 Feb 1 2149:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1971-W190	2440984.57	1971 Feb 2 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W191	2440985.19	1971 Feb 2 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	52	-	-
1971-W192	2440985.22	1971 Feb 2 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1971-W193	2440985.38	1971 Feb 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-Y52	2440985.97	1971 Feb 3 1120:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W195	2440986.08	1971 Feb 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W196	2440986.08	1971 Feb 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W197	2440986.12	1971 Feb 3 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W199	2440986.17	1971 Feb 3 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	75	-	-
1971-Y53	2440986.21	1971 Feb 3 1658:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W200	2440986.24	1971 Feb 3 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W202	2440986.26	1971 Feb 3 1812:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1971-W203	2440986.32	1971 Feb 3 1943:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1971-W204	2440986.35	1971 Feb 3 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-Y55	2440986.39	1971 Feb 3 2125:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W205	2440986.41	1971 Feb 3 2151:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1971-W207	2440986.56	1971 Feb 4 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W208	2440987.21	1971 Feb 4 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	70	-	-
1971-W209	2440987.27	1971 Feb 4 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W210	2440987.29	1971 Feb 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W211	2440987.33	1971 Feb 4 2000:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	70	-	-
1971-W212	2440987.38	1971 Feb 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W214	2440987.51	1971 Feb 5 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W215	2440988.08	1971 Feb 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W216	2440988.08	1971 Feb 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1971-W217	2440988.25	1971 Feb 5 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W218	2440988.29	1971 Feb 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W219	2440988.37	1971 Feb 5 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W220	2440988.40	1971 Feb 5 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1971-W223	2440991.08	1971 Feb 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W224	2440991.08	1971 Feb 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W225	2440991.19	1971 Feb 8 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W226	2440991.26	1971 Feb 8 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W227	2440991.29	1971 Feb 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1971-W229	2440991.40	1971 Feb 8 2132:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-Y61	2440992.17	1971 Feb 9 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-W230	2440992.18	1971 Feb 9 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W231	2440992.23	1971 Feb 9 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1971-W232	2440992.23	1971 Feb 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W234	2440992.32	1971 Feb 9 1944:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1971-W235	2440992.40	1971 Feb 9 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-Y63	2440992.92	1971 Feb 10 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	104	-	-
1971-A16	2440993.08	1971 Feb 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	48	-	-
1971-W238	2440993.09	1971 Feb 10 1411:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W239	2440993.10	1971 Feb 10 1423:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1971-W240	2440993.14	1971 Feb 10 1515:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1971-W241	2440993.17	1971 Feb 10 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	60	-	-
1971-W242	2440993.18	1971 Feb 10 1612:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1971-W243	2440993.20	1971 Feb 10 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W244	2440993.25	1971 Feb 10 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1971-W246	2440993.35	1971 Feb 10 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W247	2440993.44	1971 Feb 10 2231:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	61	-	-
1971-W248	2440993.46	1971 Feb 10 2302:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1971-W249	2440993.56	1971 Feb 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W252	2440994.27	1971 Feb 11 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1971-W253	2440994.39	1971 Feb 11 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-W254	2440994.40	1971 Feb 11 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W255	2440995.08	1971 Feb 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W256	2440995.08	1971 Feb 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-A17	2440995.23	1971 Feb 12 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	46	-	-
1971-W259	2440995.38	1971 Feb 12 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W260	2440995.41	1971 Feb 12 2145:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W261	2440995.58	1971 Feb 13 0201:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1971-W262	2440998.25	1971 Feb 15 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-A19	2440999.14	1971 Feb 16 1518:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	43	-	-
1971-A20	2440999.18	1971 Feb 16 1618:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	26	-	-
1971-W264	2440999.20	1971 Feb 16 1647:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	52	-	-
1971-A21	2440999.35	1971 Feb 16 2030:00	Rocketsonde	-	-	Starute,Arcasonde	-	-	-	WS	-	-	-	46	-	-
1971-W265	2440999.38	1971 Feb 16 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-Y73	2440999.97	1971 Feb 17 1115:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	102	-	-
1971-W267	2441000.08	1971 Feb 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-A22	2441000.10	1971 Feb 17 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	49	-	-
1971-W268	2441000.11	1971 Feb 17 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1971-W270	2441000.14	1971 Feb 17 1517:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W271	2441000.25	1971 Feb 17 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1971-W272	2441000.29	1971 Feb 17 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W273	2441000.29	1971 Feb 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W274	2441000.32	1971 Feb 17 1944:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	65	-	-
1971-Y75	2441000.39	1971 Feb 17 2120:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W275	2441000.41	1971 Feb 17 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W276	2441000.61	1971 Feb 18 0240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1971-W277	2441001.33	1971 Feb 18 1957:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W278	2441002.08	1971 Feb 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1971-W279	2441002.08	1971 Feb 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W280	2441002.13	1971 Feb 19 1503:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W281	2441002.25	1971 Feb 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1971-W282	2441002.29	1971 Feb 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W283	2441002.38	1971 Feb 19 2108:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W284	2441002.62	1971 Feb 20 0252:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1971-W287	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1971-W288	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W289	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W290	2441005.21	1971 Feb 22 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W291	2441005.30	1971 Feb 22 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W292	2441005.38	1971 Feb 22 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W293	2441006.29	1971 Feb 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W294	2441006.33	1971 Feb 23 2000:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1971-W295	2441006.38	1971 Feb 23 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W296	2441006.38	1971 Feb 23 2112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-Y80	2441006.92	1971 Feb 24 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	103	-	-
1971-W298	2441007.08	1971 Feb 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	54	-	-
1971-W299	2441007.09	1971 Feb 24 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W300	2441007.11	1971 Feb 24 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W301	2441007.14	1971 Feb 24 1527:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1971-Y81	2441007.17	1971 Feb 24 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W302	2441007.25	1971 Feb 24 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1971-A24	2441007.29	1971 Feb 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	48	-	-
1971-W303	2441007.35	1971 Feb 24 2024:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W304	2441007.38	1971 Feb 24 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W306	2441008.18	1971 Feb 25 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-Y83	2441008.39	1971 Feb 25 2115:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W307	2441008.40	1971 Feb 25 2138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W308	2441008.51	1971 Feb 26 0014:59	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	62	-	-
1971-W309	2441008.56	1971 Feb 26 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W310	2441009.06	1971 Feb 26 1331:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W311	2441009.08	1971 Feb 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W312	2441009.08	1971 Feb 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W313	2441009.25	1971 Feb 26 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1971-W314	2441009.31	1971 Feb 26 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W315	2441009.35	1971 Feb 26 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W316	2441009.56	1971 Feb 27 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1971-W317	2441012.08	1971 Mar 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W318	2441012.08	1971 Mar 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W319	2441012.23	1971 Mar 1 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W320	2441012.25	1971 Mar 1 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1971-W321	2441012.36	1971 Mar 1 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W322	2441012.40	1971 Mar 1 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W323	2441012.56	1971 Mar 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W324	2441013.09	1971 Mar 2 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1971-W325	2441013.42	1971 Mar 2 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-Y88	2441013.92	1971 Mar 3 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	94	-	-
1971-W328	2441014.08	1971 Mar 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W329	2441014.09	1971 Mar 3 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1971-W330	2441014.25	1971 Mar 3 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-A27	2441014.32	1971 Mar 3 1944:59	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	29	-	-
1971-W332	2441014.35	1971 Mar 3 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W334	2441014.56	1971 Mar 4 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W336	2441015.23	1971 Mar 4 1730:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	56	-	-
1971-W337	2441015.23	1971 Mar 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-Y90	2441015.27	1971 Mar 4 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W338	2441015.42	1971 Mar 4 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W339	2441016.08	1971 Mar 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W340	2441016.13	1971 Mar 5 1511:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W341	2441016.15	1971 Mar 5 1540:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1971-W342	2441016.26	1971 Mar 5 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W344	2441016.29	1971 Mar 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W345	2441016.31	1971 Mar 5 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W347	2441016.42	1971 Mar 5 2209:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1971-W348	2441016.56	1971 Mar 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1971-W349	2441019.08	1971 Mar 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W350	2441019.23	1971 Mar 8 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W351	2441019.25	1971 Mar 8 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1971-W352	2441019.29	1971 Mar 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1971-W353	2441019.32	1971 Mar 8 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1971-W354	2441019.38	1971 Mar 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W355	2441019.56	1971 Mar 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1971-W357	2441019.73	1971 Mar 9 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W358	2441020.25	1971 Mar 9 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W360	2441021.08	1971 Mar 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-A29	2441021.11	1971 Mar 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1971-W361	2441021.25	1971 Mar 10 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W362	2441021.27	1971 Mar 10 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1971-W363	2441021.56	1971 Mar 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W364	2441021.81	1971 Mar 11 0721:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W365	2441022.24	1971 Mar 11 1743:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W366	2441022.55	1971 Mar 12 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	61	-	-
1971-W368	2441022.81	1971 Mar 12 0730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W369	2441023.06	1971 Mar 12 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W370	2441023.16	1971 Mar 12 1554:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1971-W371	2441023.31	1971 Mar 12 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-Y95	2441023.38	1971 Mar 12 2112:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-A30	2441023.41	1971 Mar 12 2146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	49	-	-
1971-W372	2441023.57	1971 Mar 13 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W373	2441026.20	1971 Mar 15 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1971-W374	2441026.29	1971 Mar 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1971-W375	2441026.30	1971 Mar 15 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W376	2441026.37	1971 Mar 15 2051:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1971-W377	2441026.42	1971 Mar 15 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W378	2441026.56	1971 Mar 16 0119:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W379	2441026.56	1971 Mar 16 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1971-W380	2441027.26	1971 Mar 16 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W381	2441027.39	1971 Mar 16 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W383	2441028.13	1971 Mar 17 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	59	-	-
1971-W384	2441028.18	1971 Mar 17 1623:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	63	-	-
1971-W385	2441028.29	1971 Mar 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-W386	2441028.33	1971 Mar 17 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-Y100	2441028.43	1971 Mar 17 2218:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W387	2441028.44	1971 Mar 17 2232:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W388	2441028.57	1971 Mar 18 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W389	2441029.07	1971 Mar 18 1334:59	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	65	-	-
1971-W390	2441029.38	1971 Mar 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W391	2441030.09	1971 Mar 19 1413:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W392	2441030.21	1971 Mar 19 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1971-W393	2441030.24	1971 Mar 19 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W394	2441030.33	1971 Mar 19 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W395	2441030.56	1971 Mar 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1971-W398	2441033.08	1971 Mar 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-A33	2441033.08	1971 Mar 22 1401:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1971-W399	2441033.14	1971 Mar 22 1519:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1971-W400	2441033.28	1971 Mar 22 1838:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W401	2441033.29	1971 Mar 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W402	2441033.33	1971 Mar 22 1951:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1971-W403	2441033.56	1971 Mar 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W407	2441035.12	1971 Mar 24 1453:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W408	2441035.12	1971 Mar 24 1454:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W409	2441035.20	1971 Mar 24 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1971-W410	2441035.23	1971 Mar 24 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W411	2441035.33	1971 Mar 24 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1971-W412	2441035.37	1971 Mar 24 2056:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-Y105	2441035.38	1971 Mar 24 2111:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W413	2441035.40	1971 Mar 24 2142:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W414	2441035.59	1971 Mar 25 0215:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W416	2441036.27	1971 Mar 25 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1971-W417	2441036.30	1971 Mar 25 1914:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1971-W419	2441037.08	1971 Mar 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W420	2441037.09	1971 Mar 26 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-Y106	2441037.17	1971 Mar 26 1606:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	90	-	-
1971-W421	2441037.26	1971 Mar 26 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W423	2441037.35	1971 Mar 26 2030:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	58	-	-
1971-W424	2441037.38	1971 Mar 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W425	2441037.56	1971 Mar 27 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W426	2441040.21	1971 Mar 29 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W428	2441040.27	1971 Mar 29 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W429	2441040.38	1971 Mar 29 2103:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W430	2441040.44	1971 Mar 29 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W431	2441040.58	1971 Mar 30 0154:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W432	2441041.27	1971 Mar 30 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W433	2441041.38	1971 Mar 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y111	2441041.92	1971 Mar 31 1004:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	103	-	-
1971-W434	2441042.06	1971 Mar 31 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1971-W435	2441042.08	1971 Mar 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W436	2441042.09	1971 Mar 31 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-Y112	2441042.17	1971 Mar 31 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1971-W437	2441042.25	1971 Mar 31 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-W439	2441042.28	1971 Mar 31 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W440	2441042.29	1971 Mar 31 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W441	2441042.46	1971 Mar 31 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W442	2441042.56	1971 Apr 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W443	2441043.27	1971 Apr 1 1825:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-Y114	2441043.38	1971 Apr 1 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W444	2441043.39	1971 Apr 1 2126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-Y115	2441043.46	1971 Apr 1 2256:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W445	2441044.08	1971 Apr 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W446	2441044.08	1971 Apr 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W447	2441044.12	1971 Apr 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W449	2441044.27	1971 Apr 2 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1971-W450	2441044.29	1971 Apr 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1971-W451	2441044.38	1971 Apr 2 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W452	2441044.48	1971 Apr 2 2326:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1971-W453	2441044.57	1971 Apr 3 0135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W454	2441045.03	1971 Apr 3 1245:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	63	-	-
1971-W455	2441045.23	1971 Apr 3 1731:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	69	-	-
1971-W456	2441045.24	1971 Apr 3 1741:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	53	-	-
1971-W457	2441046.71	1971 Apr 5 0508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W458	2441046.90	1971 Apr 5 0930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W459	2441047.08	1971 Apr 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W460	2441047.08	1971 Apr 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W461	2441047.12	1971 Apr 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W463	2441047.24	1971 Apr 5 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W464	2441047.25	1971 Apr 5 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W465	2441047.29	1971 Apr 5 1900:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	52	-	-
1971-W466	2441047.31	1971 Apr 5 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W467	2441047.34	1971 Apr 5 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1971-W468	2441047.37	1971 Apr 5 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W469	2441047.56	1971 Apr 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1971-W470	2441048.38	1971 Apr 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y121	2441048.92	1971 Apr 7 1011:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	103	-	-
1971-W472	2441049.08	1971 Apr 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W473	2441049.08	1971 Apr 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W474	2441049.09	1971 Apr 7 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1971-W475	2441049.12	1971 Apr 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W476	2441049.16	1971 Apr 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1971-W477	2441049.17	1971 Apr 7 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W478	2441049.25	1971 Apr 7 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1971-W479	2441049.29	1971 Apr 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1971-W480	2441049.30	1971 Apr 7 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W481	2441049.34	1971 Apr 7 2015:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1971-W482	2441049.39	1971 Apr 7 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W483	2441049.63	1971 Apr 8 0304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W484	2441050.12	1971 Apr 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W485	2441050.25	1971 Apr 8 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-A34	2441050.25	1971 Apr 8 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	46	-	-
1971-Y122	2441050.42	1971 Apr 8 2209:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	80	-	-
1971-W486	2441050.49	1971 Apr 8 2338:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W487	2441051.08	1971 Apr 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W488	2441051.13	1971 Apr 9 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W489	2441051.13	1971 Apr 9 1511:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	59	-	-
1971-W490	2441051.19	1971 Apr 9 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W491	2441051.19	1971 Apr 9 1635:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	53	-	-
1971-W492	2441051.25	1971 Apr 9 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W493	2441051.29	1971 Apr 9 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W494	2441051.38	1971 Apr 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W495	2441051.56	1971 Apr 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1971-W496	2441054.08	1971 Apr 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W497	2441054.08	1971 Apr 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W498	2441054.12	1971 Apr 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1971-W499	2441054.23	1971 Apr 12 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W500	2441054.25	1971 Apr 12 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W501	2441054.30	1971 Apr 12 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1971-W502	2441054.36	1971 Apr 12 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W503	2441054.38	1971 Apr 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W504	2441054.60	1971 Apr 13 0227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1971-W505	2441055.38	1971 Apr 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W506	2441056.08	1971 Apr 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1971-W507	2441056.13	1971 Apr 14 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W508	2441056.13	1971 Apr 14 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W510	2441056.20	1971 Apr 14 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-W511	2441056.25	1971 Apr 14 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1971-W512	2441056.34	1971 Apr 14 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1971-W513	2441056.38	1971 Apr 14 2113:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	54	-	-
1971-W514	2441056.40	1971 Apr 14 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W515	2441056.60	1971 Apr 15 0225:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W516	2441057.37	1971 Apr 15 2057:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W517	2441057.48	1971 Apr 15 2334:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W518	2441058.08	1971 Apr 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W519	2441058.08	1971 Apr 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W520	2441058.11	1971 Apr 16 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W521	2441058.15	1971 Apr 16 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W523	2441058.25	1971 Apr 16 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1971-W524	2441058.25	1971 Apr 16 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-Y126	2441058.34	1971 Apr 16 2006:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W525	2441058.40	1971 Apr 16 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W526	2441058.52	1971 Apr 17 0034:59	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	59	-	-
1971-W527	2441058.79	1971 Apr 17 0659:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1971-W528	2441061.08	1971 Apr 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W529	2441061.09	1971 Apr 19 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1971-W530	2441061.12	1971 Apr 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W531	2441061.21	1971 Apr 19 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W532	2441061.25	1971 Apr 19 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1971-W533	2441061.25	1971 Apr 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1971-W534	2441061.25	1971 Apr 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W535	2441061.31	1971 Apr 19 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W536	2441061.35	1971 Apr 19 2027:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W537	2441061.39	1971 Apr 19 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W538	2441061.43	1971 Apr 19 2223:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	63	-	-
1971-W539	2441061.55	1971 Apr 20 0115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W540	2441061.56	1971 Apr 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W541	2441062.28	1971 Apr 20 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W542	2441062.43	1971 Apr 20 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W543	2441063.08	1971 Apr 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W544	2441063.08	1971 Apr 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W545	2441063.12	1971 Apr 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W546	2441063.17	1971 Apr 21 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W547	2441063.17	1971 Apr 21 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	65	-	-
1971-W549	2441063.25	1971 Apr 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	51	-	-
1971-W550	2441063.25	1971 Apr 21 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W551	2441063.25	1971 Apr 21 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1971-W552	2441063.28	1971 Apr 21 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1971-W553	2441063.33	1971 Apr 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1971-W554	2441063.42	1971 Apr 21 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W555	2441063.56	1971 Apr 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1971-W556	2441064.16	1971 Apr 22 1556:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-Y130	2441064.47	1971 Apr 22 2319:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W557	2441064.88	1971 Apr 23 0900:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W558	2441065.08	1971 Apr 23 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W559	2441065.12	1971 Apr 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W560	2441065.13	1971 Apr 23 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1971-Y131	2441065.25	1971 Apr 23 1807:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	89	-	-
1971-W562	2441065.29	1971 Apr 23 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W563	2441065.30	1971 Apr 23 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	51	-	-
1971-W564	2441065.31	1971 Apr 23 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W565	2441065.56	1971 Apr 24 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W566	2441068.12	1971 Apr 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W567	2441068.14	1971 Apr 26 1521:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1971-A38	2441068.15	1971 Apr 26 1536:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1971-W568	2441068.21	1971 Apr 26 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1971-W569	2441068.21	1971 Apr 26 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W570	2441068.24	1971 Apr 26 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W572	2441068.38	1971 Apr 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W573	2441068.56	1971 Apr 27 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W574	2441069.09	1971 Apr 27 1415:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	56	-	-
1971-W575	2441069.09	1971 Apr 27 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1971-W576	2441069.10	1971 Apr 27 1424:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1971-W577	2441069.17	1971 Apr 27 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W578	2441069.17	1971 Apr 27 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W579	2441069.19	1971 Apr 27 1633:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	53	-	-
1971-W580	2441069.20	1971 Apr 27 1644:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-

							Launch							Apogee	Range	Dest
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	km	km	
1971-W581	2441069.28	1971 Apr 27 1840:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1971-W582	2441069.31	1971 Apr 27 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W583	2441069.32	1971 Apr 27 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W584	2441069.32	1971 Apr 27 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W585	2441069.42	1971 Apr 27 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-Y134	2441069.92	1971 Apr 28 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W587	2441070.04	1971 Apr 28 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W588	2441070.12	1971 Apr 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1971-W589	2441070.13	1971 Apr 28 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1971-W590	2441070.15	1971 Apr 28 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W591	2441070.17	1971 Apr 28 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W593	2441070.26	1971 Apr 28 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1971-Y136	2441070.38	1971 Apr 28 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W594	2441070.39	1971 Apr 28 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W595	2441070.58	1971 Apr 29 0158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W596	2441071.09	1971 Apr 29 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1971-W597	2441071.23	1971 Apr 29 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W598	2441071.38	1971 Apr 29 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W600	2441072.08	1971 Apr 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W602	2441072.12	1971 Apr 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W603	2441072.13	1971 Apr 30 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-A43	2441072.21	1971 Apr 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	49	-	-
1971-W604	2441072.27	1971 Apr 30 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W605	2441072.38	1971 Apr 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W606	2441072.56	1971 May 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W607	2441072.64	1971 May 1 0322:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W608	2441075.08	1971 May 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W610	2441075.12	1971 May 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W611	2441075.13	1971 May 3 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W612	2441075.26	1971 May 3 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W613	2441075.27	1971 May 3 1823:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W614	2441075.34	1971 May 3 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1971-W615	2441075.38	1971 May 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-W616	2441075.61	1971 May 4 0232:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1971-W617	2441076.25	1971 May 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W618	2441076.37	1971 May 4 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-Y140	2441076.92	1971 May 5 1009:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	90	-	-
1971-W620	2441077.12	1971 May 5 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W621	2441077.12	1971 May 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W622	2441077.23	1971 May 5 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1971-W623	2441077.25	1971 May 5 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W624	2441077.25	1971 May 5 1807:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W625	2441077.33	1971 May 5 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1971-W626	2441077.41	1971 May 5 2146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W627	2441077.56	1971 May 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W628	2441078.12	1971 May 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W629	2441078.29	1971 May 6 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W630	2441078.38	1971 May 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W631	2441078.52	1971 May 7 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	60	-	-
1971-W632	2441078.96	1971 May 7 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W633	2441079.09	1971 May 7 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1971-A52	2441079.20	1971 May 7 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	45	-	-
1971-W635	2441079.23	1971 May 7 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W636	2441079.42	1971 May 7 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W637	2441079.44	1971 May 7 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W638	2441079.56	1971 May 8 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W639	2441082.06	1971 May 10 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W640	2441082.08	1971 May 10 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W641	2441082.08	1971 May 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W643	2441082.12	1971 May 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1971-W644	2441082.24	1971 May 10 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W645	2441082.25	1971 May 10 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1971-W646	2441082.27	1971 May 10 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W647	2441082.29	1971 May 10 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W648	2441082.50	1971 May 10 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-W649	2441083.37	1971 May 11 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W650	2441083.44	1971 May 11 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1971-W651	2441083.55	1971 May 12 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-Y145	2441083.93	1971 May 12 1024:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	91	-	-
1971-W652	2441084.06	1971 May 12 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W653	2441084.08	1971 May 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W654	2441084.09	1971 May 12 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W655	2441084.10	1971 May 12 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W657	2441084.12	1971 May 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-Y146	2441084.13	1971 May 12 1507:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W658	2441084.17	1971 May 12 1603:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W659	2441084.21	1971 May 12 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1971-W660	2441084.22	1971 May 12 1711:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W661	2441084.26	1971 May 12 1811:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	68	-	-
1971-W662	2441084.31	1971 May 12 1921:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1971-W663	2441084.35	1971 May 12 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1971-W664	2441084.53	1971 May 13 0045:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1971-W665	2441084.58	1971 May 13 0153:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1971-W666	2441085.20	1971 May 13 1642:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W667	2441085.24	1971 May 13 1740:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1971-W668	2441086.08	1971 May 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W669	2441086.09	1971 May 14 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1971-W670	2441086.12	1971 May 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W672	2441086.20	1971 May 14 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W673	2441086.29	1971 May 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1971-W674	2441086.35	1971 May 14 2026:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-Y147	2441086.42	1971 May 14 2201:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W675	2441086.44	1971 May 14 2227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1971-W676	2441086.53	1971 May 15 0045:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	65	-	-
1971-W677	2441086.57	1971 May 15 0142:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W678	2441086.70	1971 May 15 0441:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1971-W679	2441088.21	1971 May 16 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1971-W680	2441089.08	1971 May 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W681	2441089.09	1971 May 17 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1971-W682	2441089.11	1971 May 17 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W683	2441089.12	1971 May 17 1456:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W684	2441089.12	1971 May 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W685	2441089.16	1971 May 17 1549:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W687	2441089.21	1971 May 17 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1971-W688	2441089.26	1971 May 17 1821:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W690	2441089.42	1971 May 17 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W691	2441089.49	1971 May 17 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1971-W692	2441090.12	1971 May 18 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W693	2441090.38	1971 May 18 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-Y150	2441090.92	1971 May 19 1004:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	94	-	-
1971-W695	2441091.07	1971 May 19 1346:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W696	2441091.08	1971 May 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W697	2441091.09	1971 May 19 1407:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W698	2441091.12	1971 May 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-Y153	2441091.16	1971 May 19 1549:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1971-W700	2441091.21	1971 May 19 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1971-W701	2441091.21	1971 May 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W702	2441091.25	1971 May 19 1800:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	58	-	-
1971-W703	2441091.25	1971 May 19 1804:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	63	-	-
1971-W704	2441091.34	1971 May 19 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1971-Y154	2441091.36	1971 May 19 2032:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W705	2441091.37	1971 May 19 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-Y155	2441091.40	1971 May 19 2133:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W706	2441091.41	1971 May 19 2156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W707	2441091.56	1971 May 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W708	2441092.13	1971 May 20 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W709	2441093.06	1971 May 21 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W710	2441093.07	1971 May 21 1341:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W711	2441093.08	1971 May 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W712	2441093.12	1971 May 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W713	2441093.23	1971 May 21 1730:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	66	-	-
1971-W714	2441093.27	1971 May 21 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W715	2441093.31	1971 May 21 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W716	2441093.33	1971 May 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1971-W717	2441093.42	1971 May 21 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W718	2441093.57	1971 May 22 0141:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W719	2441094.21	1971 May 22 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-Y158	2441094.22	1971 May 22 1715:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W720	2441095.21	1971 May 23 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W721	2441096.04	1971 May 24 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W722	2441096.08	1971 May 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W723	2441096.12	1971 May 24 1454:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W724	2441096.12	1971 May 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W725	2441096.21	1971 May 24 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W726	2441096.38	1971 May 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W727	2441096.45	1971 May 24 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1971-W728	2441096.56	1971 May 25 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W729	2441097.31	1971 May 25 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W730	2441097.39	1971 May 25 2119:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1971-W731	2441098.06	1971 May 26 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W732	2441098.08	1971 May 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W734	2441098.12	1971 May 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W735	2441098.14	1971 May 26 1514:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1971-Y164	2441098.15	1971 May 26 1530:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1971-W736	2441098.21	1971 May 26 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W737	2441098.21	1971 May 26 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1971-W738	2441098.25	1971 May 26 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	55	-	-
1971-W739	2441098.32	1971 May 26 1941:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W740	2441098.38	1971 May 26 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	56	-	-
1971-W741	2441098.39	1971 May 26 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W742	2441098.44	1971 May 26 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1971-W743	2441098.59	1971 May 27 0209:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W744	2441099.09	1971 May 27 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1971-W745	2441099.12	1971 May 27 1452:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W746	2441099.30	1971 May 27 1910:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1971-W747	2441099.40	1971 May 27 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W748	2441100.09	1971 May 28 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W749	2441100.12	1971 May 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1971-W750	2441100.15	1971 May 28 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-A53	2441100.15	1971 May 28 1533:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	39	-	-
1971-W751	2441100.21	1971 May 28 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W753	2441100.29	1971 May 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W754	2441100.40	1971 May 28 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W755	2441100.63	1971 May 29 0304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W758	2441104.12	1971 Jun 1 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W759	2441104.15	1971 Jun 1 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1971-W760	2441104.15	1971 Jun 1 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W761	2441104.19	1971 Jun 1 1630:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	68	-	-
1971-W762	2441104.22	1971 Jun 1 1720:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	62	-	-
1971-W763	2441104.25	1971 Jun 1 1756:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	66	-	-
1971-W764	2441104.40	1971 Jun 1 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W765	2441105.07	1971 Jun 2 1334:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W766	2441105.08	1971 Jun 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W768	2441105.14	1971 Jun 2 1514:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	63	-	-
1971-Y171	2441105.15	1971 Jun 2 1530:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	90	-	-
1971-W769	2441105.15	1971 Jun 2 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W770	2441105.21	1971 Jun 2 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W771	2441105.23	1971 Jun 2 1730:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W772	2441105.29	1971 Jun 2 1858:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W773	2441105.40	1971 Jun 2 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W774	2441105.56	1971 Jun 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W775	2441106.33	1971 Jun 3 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1971-W776	2441106.38	1971 Jun 3 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W777	2441106.56	1971 Jun 4 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	56	-	-
1971-W778	2441106.76	1971 Jun 4 0612:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1971-W779	2441107.06	1971 Jun 4 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W780	2441107.08	1971 Jun 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W781	2441107.12	1971 Jun 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1971-W782	2441107.34	1971 Jun 4 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1971-W783	2441107.40	1971 Jun 4 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-Y172	2441107.46	1971 Jun 4 2300:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W784	2441107.47	1971 Jun 4 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W785	2441110.10	1971 Jun 7 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W786	2441110.12	1971 Jun 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W787	2441110.19	1971 Jun 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W788	2441110.24	1971 Jun 7 1752:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W789	2441110.27	1971 Jun 7 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W790	2441110.38	1971 Jun 7 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W791	2441110.44	1971 Jun 7 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1971-W792	2441110.56	1971 Jun 8 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W793	2441111.13	1971 Jun 8 1501:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1971-W794	2441111.23	1971 Jun 8 1730:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1971-W795	2441111.40	1971 Jun 8 2132:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-Y175	2441111.92	1971 Jun 9 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W796	2441112.06	1971 Jun 9 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W797	2441112.08	1971 Jun 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W798	2441112.10	1971 Jun 9 1420:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	59	-	-
1971-W799	2441112.10	1971 Jun 9 1427:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W800	2441112.12	1971 Jun 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W801	2441112.13	1971 Jun 9 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W804	2441112.14	1971 Jun 9 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1971-Y177	2441112.15	1971 Jun 9 1537:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	100	-	-
1971-W805	2441112.19	1971 Jun 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W806	2441112.32	1971 Jun 9 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W807	2441112.33	1971 Jun 9 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1971-W808	2441112.42	1971 Jun 9 2211:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	75	-	-
1971-W809	2441112.44	1971 Jun 9 2238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W810	2441112.56	1971 Jun 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1971-W811	2441113.14	1971 Jun 10 1514:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1971-W812	2441113.62	1971 Jun 11 0246:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	64	-	-
1971-W813	2441114.07	1971 Jun 11 1346:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W814	2441114.08	1971 Jun 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W815	2441114.17	1971 Jun 11 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W816	2441114.22	1971 Jun 11 1711:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W817	2441114.23	1971 Jun 11 1737:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W818	2441114.24	1971 Jun 11 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W819	2441114.33	1971 Jun 11 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1971-W820	2441114.35	1971 Jun 11 2029:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-A55	2441114.35	1971 Jun 11 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	49	-	-
1971-W821	2441114.38	1971 Jun 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W822	2441114.56	1971 Jun 12 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1971-W823	2441117.12	1971 Jun 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W824	2441117.21	1971 Jun 14 1700:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1971-W825	2441117.23	1971 Jun 14 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W826	2441117.23	1971 Jun 14 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W827	2441117.34	1971 Jun 14 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1971-W828	2441117.60	1971 Jun 15 0229:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W829	2441118.14	1971 Jun 15 1525:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1971-W830	2441118.35	1971 Jun 15 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W832	2441119.11	1971 Jun 16 1444:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W833	2441119.14	1971 Jun 16 1522:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W834	2441119.17	1971 Jun 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-A56	2441119.18	1971 Jun 16 1614:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	48	-	-
1971-W835	2441119.25	1971 Jun 16 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W836	2441119.40	1971 Jun 16 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W837	2441119.60	1971 Jun 17 0230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W838	2441120.23	1971 Jun 17 1730:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1971-W839	2441120.58	1971 Jun 18 0201:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W840	2441121.07	1971 Jun 18 1346:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W841	2441121.12	1971 Jun 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W843	2441123.40	1971 Jun 20 2140:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1971-W845	2441124.06	1971 Jun 21 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W846	2441124.12	1971 Jun 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1971-W847	2441124.12	1971 Jun 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W848	2441124.19	1971 Jun 21 1630:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W849	2441124.23	1971 Jun 21 1730:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W850	2441124.38	1971 Jun 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W851	2441124.56	1971 Jun 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W852	2441125.17	1971 Jun 22 1557:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1971-W853	2441126.08	1971 Jun 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W854	2441126.13	1971 Jun 23 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W855	2441126.19	1971 Jun 23 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-Y190	2441126.31	1971 Jun 23 1920:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W857	2441126.31	1971 Jun 23 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W858	2441126.33	1971 Jun 23 1951:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	50	-	-
1971-W859	2441126.56	1971 Jun 24 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W860	2441126.58	1971 Jun 24 0157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W861	2441127.16	1971 Jun 24 1549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	63	-	-
1971-W863	2441127.23	1971 Jun 24 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W864	2441127.24	1971 Jun 24 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W865	2441127.25	1971 Jun 24 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-Y192	2441127.42	1971 Jun 24 2206:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W866	2441127.43	1971 Jun 24 2218:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W867	2441128.10	1971 Jun 25 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W868	2441128.12	1971 Jun 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W869	2441128.21	1971 Jun 25 1700:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W870	2441128.29	1971 Jun 25 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1971-W871	2441128.38	1971 Jun 25 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W872	2441128.56	1971 Jun 26 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W873	2441131.06	1971 Jun 28 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W874	2441131.12	1971 Jun 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W875	2441131.16	1971 Jun 28 1545:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1971-W876	2441131.29	1971 Jun 28 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W877	2441131.38	1971 Jun 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W878	2441131.56	1971 Jun 29 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W879	2441131.77	1971 Jun 29 0622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W880	2441132.15	1971 Jun 29 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W881	2441132.24	1971 Jun 29 1745:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	52	-	-
1971-W882	2441132.38	1971 Jun 29 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W883	2441133.09	1971 Jun 30 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W885	2441133.13	1971 Jun 30 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1971-W886	2441133.13	1971 Jun 30 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W887	2441133.17	1971 Jun 30 1559:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	68	-	-
1971-W888	2441133.19	1971 Jun 30 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	55	-	-
1971-W889	2441133.19	1971 Jun 30 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-W890	2441133.21	1971 Jun 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W891	2441133.21	1971 Jun 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W892	2441133.23	1971 Jun 30 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1971-W893	2441133.38	1971 Jun 30 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-Y200	2441133.40	1971 Jun 30 2135:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W894	2441133.42	1971 Jun 30 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W896	2441134.39	1971 Jul 1 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W897	2441135.08	1971 Jul 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W898	2441135.12	1971 Jul 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W900	2441135.21	1971 Jul 2 1700:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W901	2441135.25	1971 Jul 2 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W902	2441135.29	1971 Jul 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-Y203	2441135.34	1971 Jul 2 2003:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W903	2441135.36	1971 Jul 2 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1971-W904	2441135.38	1971 Jul 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W905	2441139.17	1971 Jul 6 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-Y207	2441139.33	1971 Jul 6 2000:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W906	2441139.38	1971 Jul 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y209	2441139.92	1971 Jul 7 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	87	-	-
1971-W907	2441140.08	1971 Jul 7 1352:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W908	2441140.08	1971 Jul 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-
1971-W909	2441140.12	1971 Jul 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W910	2441140.12	1971 Jul 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-Y211	2441140.16	1971 Jul 7 1545:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	82	-	-
1971-W912	2441140.20	1971 Jul 7 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W913	2441140.20	1971 Jul 7 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1971-W914	2441140.32	1971 Jul 7 1946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1971-W915	2441141.21	1971 Jul 8 1707:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1971-W916	2441141.38	1971 Jul 8 2101:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	75	-	-
1971-W917	2441141.39	1971 Jul 8 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W918	2441142.05	1971 Jul 9 1309:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1971-W919	2441142.08	1971 Jul 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W920	2441142.12	1971 Jul 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1971-W921	2441142.19	1971 Jul 9 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W922	2441142.31	1971 Jul 9 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W923	2441142.40	1971 Jul 9 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W924	2441145.07	1971 Jul 12 1345:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W925	2441145.08	1971 Jul 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W926	2441145.13	1971 Jul 12 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W927	2441145.14	1971 Jul 12 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1971-W929	2441145.19	1971 Jul 12 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1971-W930	2441145.19	1971 Jul 12 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W931	2441145.21	1971 Jul 12 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W932	2441145.38	1971 Jul 12 2108:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W933	2441146.38	1971 Jul 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-Y216	2441146.95	1971 Jul 14 1044:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	102	-	-
1971-W934	2441147.08	1971 Jul 14 1349:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W935	2441147.08	1971 Jul 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W936	2441147.12	1971 Jul 14 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W937	2441147.12	1971 Jul 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W938	2441147.15	1971 Jul 14 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W939	2441147.21	1971 Jul 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W940	2441147.21	1971 Jul 14 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-Y220	2441147.23	1971 Jul 14 1735:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W941	2441147.39	1971 Jul 14 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W942	2441147.57	1971 Jul 15 0141:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W944	2441148.21	1971 Jul 15 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	51	-	-
1971-Y221	2441148.38	1971 Jul 15 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W945	2441148.40	1971 Jul 15 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W946	2441149.06	1971 Jul 16 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W947	2441149.08	1971 Jul 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1971-W948	2441149.12	1971 Jul 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W949	2441149.25	1971 Jul 16 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W950	2441149.31	1971 Jul 16 1930:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	59	-	-
1971-W951	2441149.38	1971 Jul 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W952	2441149.56	1971 Jul 17 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W953	2441150.58	1971 Jul 18 0152:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W954	2441150.61	1971 Jul 18 0245:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W955	2441152.06	1971 Jul 19 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1971-W956	2441152.10	1971 Jul 19 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W957	2441152.12	1971 Jul 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-W958	2441152.15	1971 Jul 19 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1971-W959	2441152.21	1971 Jul 19 1704:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1971-W960	2441152.23	1971 Jul 19 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W962	2441152.38	1971 Jul 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W963	2441152.60	1971 Jul 20 0217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W964	2441153.38	1971 Jul 20 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W965	2441153.38	1971 Jul 20 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1971-Y223	2441153.93	1971 Jul 21 1014:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	95	-	-
1971-W966	2441154.06	1971 Jul 21 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1971-W967	2441154.08	1971 Jul 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W968	2441154.10	1971 Jul 21 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W969	2441154.12	1971 Jul 21 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W970	2441154.12	1971 Jul 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W972	2441154.18	1971 Jul 21 1613:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W973	2441154.19	1971 Jul 21 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W974	2441154.22	1971 Jul 21 1715:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	56	-	-
1972-W06	2441320.12	1972 Jan 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W07	2441320.23	1972 Jan 3 1724:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W08	2441320.29	1972 Jan 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1972-W09	2441320.35	1972 Jan 3 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	68	-	-
1972-W10	2441320.38	1972 Jan 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W12	2441321.37	1972 Jan 4 2051:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W13	2441322.08	1972 Jan 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1972-W14	2441322.10	1972 Jan 5 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1972-W15	2441322.12	1972 Jan 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W17	2441322.23	1972 Jan 5 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	60	-	-
1972-W18	2441322.33	1972 Jan 5 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W19	2441322.38	1972 Jan 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W20	2441322.40	1972 Jan 5 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	59	-	-
1972-W21	2441322.41	1972 Jan 5 2144:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	51	-	-
1972-W22	2441322.48	1972 Jan 5 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1972-W23	2441322.59	1972 Jan 6 0203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1972-W26	2441323.29	1972 Jan 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-W27	2441323.31	1972 Jan 6 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	50	-	-
1972-W28	2441323.35	1972 Jan 6 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W29	2441323.38	1972 Jan 6 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W30	2441323.48	1972 Jan 6 2324:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W31	2441323.50	1972 Jan 7 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W32	2441324.08	1972 Jan 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1972-W33	2441324.12	1972 Jan 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W34	2441324.13	1972 Jan 7 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W35	2441324.20	1972 Jan 7 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W36	2441324.20	1972 Jan 7 1649:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1972-W38	2441324.33	1972 Jan 7 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1972-W39	2441324.33	1972 Jan 7 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W40	2441324.40	1972 Jan 7 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W41	2441327.08	1972 Jan 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-A05	2441327.12	1972 Jan 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	49	-	-
1972-W42	2441327.17	1972 Jan 10 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W43	2441327.20	1972 Jan 10 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W44	2441327.28	1972 Jan 10 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-W45	2441327.39	1972 Jan 10 2115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W46	2441328.10	1972 Jan 11 1430:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	79	-	-
1972-W47	2441328.17	1972 Jan 11 1610:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W48	2441328.24	1972 Jan 11 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-Y11	2441328.33	1972 Jan 11 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	91	-	-
1972-W49	2441329.08	1972 Jan 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W50	2441329.10	1972 Jan 12 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W51	2441329.12	1972 Jan 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W52	2441329.13	1972 Jan 12 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-Y19	2441329.19	1972 Jan 12 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	83	-	-
1972-W53	2441329.23	1972 Jan 12 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1972-W54	2441329.29	1972 Jan 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	61	-	-
1972-W55	2441329.29	1972 Jan 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-Y20	2441329.30	1972 Jan 12 1913:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W56	2441329.34	1972 Jan 12 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W57	2441329.38	1972 Jan 12 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	75	-	-
1972-W58	2441329.39	1972 Jan 12 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1972-W60	2441330.16	1972 Jan 13 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1972-W61	2441330.30	1972 Jan 13 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W62	2441330.31	1972 Jan 13 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W63	2441330.38	1972 Jan 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1972-W64	2441331.08	1972 Jan 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W65	2441331.10	1972 Jan 14 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W66	2441331.12	1972 Jan 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1972-W67	2441331.15	1972 Jan 14 1529:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1972-W68	2441331.21	1972 Jan 14 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W69	2441331.29	1972 Jan 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W70	2441331.45	1972 Jan 14 2241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W74	2441334.08	1972 Jan 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1972-W75	2441334.10	1972 Jan 17 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W76	2441334.10	1972 Jan 17 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1972-W77	2441334.12	1972 Jan 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W79	2441334.19	1972 Jan 17 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1972-W80	2441334.23	1972 Jan 17 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-W81	2441334.29	1972 Jan 17 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	51	-	-
1972-W82	2441334.38	1972 Jan 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W83	2441334.46	1972 Jan 17 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1972-W85	2441335.18	1972 Jan 18 1620:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W86	2441335.22	1972 Jan 18 1722:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W87	2441335.35	1972 Jan 18 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1972-W88	2441335.37	1972 Jan 18 2059:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W90	2441336.10	1972 Jan 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1972-W91	2441336.12	1972 Jan 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W93	2441336.18	1972 Jan 19 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1972-W94	2441336.23	1972 Jan 19 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W96	2441336.25	1972 Jan 19 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1972-W98	2441336.36	1972 Jan 19 2045:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	77	-	-
1972-W99	2441336.45	1972 Jan 19 2241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W101	2441336.56	1972 Jan 20 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W102	2441337.13	1972 Jan 20 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1972-W104	2441337.40	1972 Jan 20 2135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W105	2441337.54	1972 Jan 21 0100:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	53	-	-
1972-W106	2441338.08	1972 Jan 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1972-W107	2441338.12	1972 Jan 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W109	2441338.21	1972 Jan 21 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1972-W110	2441338.25	1972 Jan 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W111	2441338.25	1972 Jan 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1972-W112	2441338.29	1972 Jan 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1972-W113	2441338.31	1972 Jan 21 1930:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	61	-	-
1972-W114	2441338.33	1972 Jan 21 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1972-W115	2441338.36	1972 Jan 21 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1972-W116	2441338.37	1972 Jan 21 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W117	2441338.38	1972 Jan 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W118	2441338.47	1972 Jan 21 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1972-W120	2441341.08	1972 Jan 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W121	2441341.10	1972 Jan 24 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W122	2441341.12	1972 Jan 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W124	2441341.20	1972 Jan 24 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1972-W125	2441341.29	1972 Jan 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W126	2441341.46	1972 Jan 24 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W127	2441341.55	1972 Jan 25 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1972-W128	2441341.57	1972 Jan 25 0147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W129	2441342.23	1972 Jan 25 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W130	2441342.25	1972 Jan 25 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	57	-	-
1972-Y36	2441342.34	1972 Jan 25 2004:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	92	-	-
1972-W131	2441342.42	1972 Jan 25 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W133	2441343.08	1972 Jan 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W134	2441343.10	1972 Jan 26 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1972-W135	2441343.12	1972 Jan 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W136	2441343.15	1972 Jan 26 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-A09	2441343.18	1972 Jan 26 1613:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	42	-	-
1972-W137	2441343.22	1972 Jan 26 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-Y41	2441343.23	1972 Jan 26 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	90	-	-
1972-W139	2441343.41	1972 Jan 26 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W140	2441343.43	1972 Jan 26 2223:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1972-W141	2441343.57	1972 Jan 27 0138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1972-W142	2441344.17	1972 Jan 27 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1972-W143	2441344.29	1972 Jan 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W144	2441344.31	1972 Jan 27 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W145	2441345.08	1972 Jan 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W146	2441345.12	1972 Jan 28 1448:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W147	2441345.12	1972 Jan 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1972-W149	2441345.17	1972 Jan 28 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W150	2441345.29	1972 Jan 28 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W151	2441345.35	1972 Jan 28 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1972-W152	2441345.56	1972 Jan 29 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W153	2441348.08	1972 Jan 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1972-W154	2441348.12	1972 Jan 31 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1972-W156	2441348.20	1972 Jan 31 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1972-W157	2441348.30	1972 Jan 31 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W158	2441348.31	1972 Jan 31 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W159	2441348.33	1972 Jan 31 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W160	2441348.35	1972 Jan 31 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1972-W161	2441348.46	1972 Jan 31 2256:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	51	-	-
1972-W162	2441348.56	1972 Feb 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W164	2441349.23	1972 Feb 1 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W166	2441349.27	1972 Feb 1 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	69	-	-
1972-W167	2441349.27	1972 Feb 1 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W169	2441349.31	1972 Feb 1 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W172	2441350.08	1972 Feb 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W173	2441350.09	1972 Feb 2 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-A15	2441350.16	1972 Feb 2 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	49	-	-
1972-W175	2441350.20	1972 Feb 2 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1972-W176	2441350.31	1972 Feb 2 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W177	2441350.38	1972 Feb 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W178	2441350.56	1972 Feb 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W180	2441351.29	1972 Feb 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1972-W181	2441352.08	1972 Feb 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W182	2441352.12	1972 Feb 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W184	2441352.20	1972 Feb 4 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1972-W185	2441352.25	1972 Feb 4 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W186	2441352.29	1972 Feb 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W187	2441352.30	1972 Feb 4 1918:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W188	2441352.50	1972 Feb 5 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1972-W189	2441352.56	1972 Feb 5 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W192	2441355.08	1972 Feb 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W193	2441355.10	1972 Feb 7 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1972-W194	2441355.12	1972 Feb 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W195	2441355.17	1972 Feb 7 1559:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	74	-	-
1972-W196	2441355.20	1972 Feb 7 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1972-W197	2441355.30	1972 Feb 7 1910:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1972-W198	2441355.36	1972 Feb 7 2041:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W199	2441355.50	1972 Feb 7 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W201	2441356.29	1972 Feb 8 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W202	2441356.29	1972 Feb 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W203	2441356.38	1972 Feb 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1972-W205	2441357.08	1972 Feb 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1972-W206	2441357.10	1972 Feb 9 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W207	2441357.12	1972 Feb 9 1449:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	66	-	-
1972-W208	2441357.17	1972 Feb 9 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W209	2441357.27	1972 Feb 9 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	57	-	-
1972-W210	2441357.30	1972 Feb 9 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W211	2441357.30	1972 Feb 9 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W212	2441357.35	1972 Feb 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W213	2441357.42	1972 Feb 9 2157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W214	2441357.44	1972 Feb 9 2235:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	75	-	-
1972-W215	2441357.46	1972 Feb 9 2301:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W218	2441357.56	1972 Feb 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W219	2441358.17	1972 Feb 10 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-Y57	2441358.29	1972 Feb 10 1901:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W220	2441358.31	1972 Feb 10 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-Y58	2441358.93	1972 Feb 11 1024:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1972-W223	2441359.08	1972 Feb 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W224	2441359.10	1972 Feb 11 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W225	2441359.12	1972 Feb 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W226	2441359.20	1972 Feb 11 1644:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	51	-	-
1972-W227	2441359.23	1972 Feb 11 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W228	2441359.24	1972 Feb 11 1748:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1972-W230	2441359.26	1972 Feb 11 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-Y59	2441359.30	1972 Feb 11 1914:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	85	-	-
1972-W231	2441359.33	1972 Feb 11 1948:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W232	2441359.38	1972 Feb 11 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W233	2441359.56	1972 Feb 12 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W235	2441362.06	1972 Feb 14 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1972-W236	2441362.11	1972 Feb 14 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W237	2441362.12	1972 Feb 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1972-W238	2441362.13	1972 Feb 14 1504:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1972-W239	2441362.16	1972 Feb 14 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W240	2441362.29	1972 Feb 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W241	2441362.38	1972 Feb 14 2103:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-Y62	2441363.10	1972 Feb 15 1430:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1972-W244	2441363.18	1972 Feb 15 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-Y63	2441363.21	1972 Feb 15 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1972-W245	2441363.24	1972 Feb 15 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1972-Y64	2441363.27	1972 Feb 15 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W247	2441363.50	1972 Feb 16 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W249	2441364.08	1972 Feb 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W250	2441364.10	1972 Feb 16 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1972-W251	2441364.10	1972 Feb 16 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W252	2441364.11	1972 Feb 16 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	62	-	-
1972-W253	2441364.12	1972 Feb 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1972-W255	2441364.17	1972 Feb 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-Y69	2441364.27	1972 Feb 16 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	86	-	-
1972-W256	2441364.31	1972 Feb 16 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W257	2441364.40	1972 Feb 16 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-Y73	2441365.19	1972 Feb 17 1634:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-
1972-W259	2441365.42	1972 Feb 17 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W260	2441365.43	1972 Feb 17 2213:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W262	2441366.08	1972 Feb 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-Y75	2441366.10	1972 Feb 18 1430:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	86	-	-
1972-W263	2441366.12	1972 Feb 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W264	2441366.14	1972 Feb 18 1524:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	51	-	-
1972-W266	2441366.16	1972 Feb 18 1556:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-Y76	2441366.17	1972 Feb 18 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-
1972-W267	2441366.40	1972 Feb 18 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1972-W268	2441366.54	1972 Feb 19 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W269	2441369.10	1972 Feb 21 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1972-W270	2441370.12	1972 Feb 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W272	2441370.21	1972 Feb 22 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W273	2441370.36	1972 Feb 22 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W274	2441370.92	1972 Feb 23 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	61	-	-
1972-W276	2441371.08	1972 Feb 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-Y86	2441371.12	1972 Feb 23 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	87	-	-
1972-W277	2441371.12	1972 Feb 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W279	2441371.23	1972 Feb 23 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-A18	2441371.25	1972 Feb 23 1755:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1972-W280	2441371.29	1972 Feb 23 1856:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1972-W281	2441371.33	1972 Feb 23 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1972-W282	2441371.34	1972 Feb 23 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-Y87	2441371.48	1972 Feb 23 2332:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W283	2441371.56	1972 Feb 24 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W284	2441372.15	1972 Feb 24 1536:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1972-W286	2441372.16	1972 Feb 24 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W287	2441372.25	1972 Feb 24 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	56	-	-
1972-W288	2441372.31	1972 Feb 24 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W289	2441372.38	1972 Feb 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W290	2441373.08	1972 Feb 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W291	2441373.12	1972 Feb 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W292	2441373.15	1972 Feb 25 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	70	-	-
1972-W293	2441373.22	1972 Feb 25 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W294	2441373.25	1972 Feb 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1972-W295	2441373.38	1972 Feb 25 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1972-W296	2441373.40	1972 Feb 25 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W297	2441373.56	1972 Feb 26 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W298	2441376.12	1972 Feb 28 1447:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1972-W299	2441376.12	1972 Feb 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1972-W300	2441376.16	1972 Feb 28 1552:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W301	2441376.17	1972 Feb 28 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1972-W302	2441376.31	1972 Feb 28 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W303	2441376.33	1972 Feb 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W304	2441376.56	1972 Feb 29 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W305	2441378.11	1972 Mar 1 1435:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	67	-	-
1972-W306	2441378.11	1972 Mar 1 1442:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	58	-	-
1972-W307	2441378.12	1972 Mar 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W309	2441378.26	1972 Mar 1 1811:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1972-W310	2441378.31	1972 Mar 1 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W311	2441378.35	1972 Mar 1 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1972-W312	2441378.56	1972 Mar 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W314	2441379.42	1972 Mar 2 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W315	2441380.10	1972 Mar 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W316	2441380.12	1972 Mar 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W317	2441380.15	1972 Mar 3 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	66	-	-
1972-W319	2441380.18	1972 Mar 3 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W320	2441380.26	1972 Mar 3 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1972-W321	2441380.29	1972 Mar 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W322	2441380.32	1972 Mar 3 1943:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W323	2441380.39	1972 Mar 3 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-A22	2441383.09	1972 Mar 6 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	45	-	-
1972-W325	2441383.19	1972 Mar 6 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W326	2441383.19	1972 Mar 6 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1972-W328	2441383.27	1972 Mar 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W329	2441383.29	1972 Mar 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W330	2441383.33	1972 Mar 6 1955:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1972-W331	2441383.37	1972 Mar 6 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1972-W332	2441383.38	1972 Mar 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W333	2441384.09	1972 Mar 7 1415:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1972-W335	2441385.08	1972 Mar 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W336	2441385.12	1972 Mar 8 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1972-W337	2441385.12	1972 Mar 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1972-Y97	2441385.19	1972 Mar 8 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-
1972-W338	2441385.19	1972 Mar 8 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y98	2441385.27	1972 Mar 8 1831:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	95	-	-
1972-W339	2441385.28	1972 Mar 8 1845:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	62	-	-
1972-W340	2441385.29	1972 Mar 8 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1972-W341	2441385.29	1972 Mar 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W343	2441387.08	1972 Mar 10 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1972-W344	2441387.08	1972 Mar 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W345	2441387.12	1972 Mar 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W346	2441387.12	1972 Mar 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W347	2441387.15	1972 Mar 10 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1972-W348	2441387.19	1972 Mar 10 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1972-W349	2441387.22	1972 Mar 10 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W350	2441387.40	1972 Mar 10 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W351	2441387.56	1972 Mar 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W353	2441390.08	1972 Mar 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W354	2441390.12	1972 Mar 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W355	2441390.16	1972 Mar 13 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W356	2441390.23	1972 Mar 13 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W357	2441390.29	1972 Mar 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W359	2441392.08	1972 Mar 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W360	2441392.10	1972 Mar 15 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W361	2441392.12	1972 Mar 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W363	2441392.15	1972 Mar 15 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	50	-	-
1972-W364	2441392.18	1972 Mar 15 1621:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	52	-	-
1972-W365	2441392.21	1972 Mar 15 1708:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1972-W367	2441392.29	1972 Mar 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1972-W368	2441392.33	1972 Mar 15 1951:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W369	2441392.34	1972 Mar 15 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W370	2441392.38	1972 Mar 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W371	2441392.51	1972 Mar 16 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W372	2441392.56	1972 Mar 16 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1972-W374	2441392.60	1972 Mar 16 0219:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W375	2441393.11	1972 Mar 16 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W376	2441393.12	1972 Mar 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W377	2441393.17	1972 Mar 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	55	-	-
1972-W378	2441393.17	1972 Mar 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W379	2441393.29	1972 Mar 16 1859:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1972-A24	2441394.01	1972 Mar 17 1214:59	Rocketsonde	-	-	Starute	-	-	-	GRLC	-	-	-	48	-	-
1972-W380	2441394.08	1972 Mar 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W381	2441394.12	1972 Mar 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1972-W382	2441394.12	1972 Mar 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W383	2441394.14	1972 Mar 17 1522:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W384	2441394.17	1972 Mar 17 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	62	-	-
1972-W385	2441394.17	1972 Mar 17 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W386	2441394.25	1972 Mar 17 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W387	2441394.33	1972 Mar 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1972-W389	2441394.56	1972 Mar 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	53	-	-
1972-W390	2441397.08	1972 Mar 20 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1972-W391	2441397.08	1972 Mar 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W392	2441397.10	1972 Mar 20 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W393	2441397.12	1972 Mar 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W394	2441397.23	1972 Mar 20 1724:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W395	2441397.23	1972 Mar 20 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W396	2441397.29	1972 Mar 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W397	2441397.31	1972 Mar 20 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W398	2441397.33	1972 Mar 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1972-W403	2441399.08	1972 Mar 22 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1972-W404	2441399.08	1972 Mar 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W405	2441399.10	1972 Mar 22 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W406	2441399.12	1972 Mar 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W407	2441399.18	1972 Mar 22 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W408	2441399.22	1972 Mar 22 1710:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1972-Y115	2441399.22	1972 Mar 22 1715:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	92	-	-
1972-W409	2441399.32	1972 Mar 22 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-Y116	2441399.33	1972 Mar 22 1957:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1972-W410	2441399.38	1972 Mar 22 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1972-W411	2441399.56	1972 Mar 23 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W412	2441400.01	1972 Mar 23 1220:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1972-W414	2441401.03	1972 Mar 24 1241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W415	2441401.08	1972 Mar 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W416	2441401.10	1972 Mar 24 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W417	2441401.12	1972 Mar 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W418	2441401.26	1972 Mar 24 1818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W419	2441401.29	1972 Mar 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W420	2441401.33	1972 Mar 24 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W421	2441401.57	1972 Mar 25 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W423	2441404.01	1972 Mar 27 1219:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W424	2441404.08	1972 Mar 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W425	2441404.12	1972 Mar 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	51	-	-
1972-W426	2441404.20	1972 Mar 27 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-W427	2441404.28	1972 Mar 27 1845:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	51	-	-
1972-W428	2441404.33	1972 Mar 27 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W429	2441404.33	1972 Mar 27 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1972-W430	2441404.56	1972 Mar 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W432	2441406.00	1972 Mar 29 1202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W433	2441406.08	1972 Mar 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W434	2441406.12	1972 Mar 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W435	2441406.23	1972 Mar 29 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-A28	2441406.24	1972 Mar 29 1745:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	41	-	-
1972-W436	2441406.28	1972 Mar 29 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-A29	2441406.36	1972 Mar 29 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1972-W437	2441406.36	1972 Mar 29 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W438	2441406.40	1972 Mar 29 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-W439	2441406.56	1972 Mar 30 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W441	2441407.12	1972 Mar 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W442	2441407.29	1972 Mar 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1972-W443	2441407.32	1972 Mar 30 1940:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	56	-	-
1972-W445	2441408.00	1972 Mar 31 1156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W446	2441408.08	1972 Mar 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W447	2441408.11	1972 Mar 31 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	58	-	-
1972-W448	2441408.33	1972 Mar 31 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W449	2441408.38	1972 Mar 31 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W450	2441408.56	1972 Apr 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W451	2441411.00	1972 Apr 3 1159:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W452	2441411.08	1972 Apr 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1972-W453	2441411.08	1972 Apr 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W454	2441411.12	1972 Apr 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W455	2441411.16	1972 Apr 3 1553:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W456	2441411.17	1972 Apr 3 1601:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	56	-	-
1972-W457	2441411.29	1972 Apr 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W458	2441411.33	1972 Apr 3 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1972-W459	2441411.57	1972 Apr 4 0147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W460	2441412.30	1972 Apr 4 1912:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	50	-	-
1972-W462	2441413.08	1972 Apr 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W463	2441413.10	1972 Apr 5 1431:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1972-W464	2441413.12	1972 Apr 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1972-W465	2441413.13	1972 Apr 5 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W466	2441413.16	1972 Apr 5 1547:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	51	-	-
1972-W467	2441413.21	1972 Apr 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1972-W468	2441413.31	1972 Apr 5 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W469	2441413.56	1972 Apr 6 0132:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W471	2441414.22	1972 Apr 6 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W472	2441415.08	1972 Apr 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W473	2441415.10	1972 Apr 7 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W474	2441415.11	1972 Apr 7 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1972-W475	2441415.12	1972 Apr 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1972-W476	2441415.14	1972 Apr 7 1517:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1972-W477	2441415.29	1972 Apr 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1972-W478	2441415.56	1972 Apr 8 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W480	2441418.08	1972 Apr 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W481	2441418.10	1972 Apr 10 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W482	2441418.12	1972 Apr 10 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1972-W483	2441418.12	1972 Apr 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W484	2441418.19	1972 Apr 10 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1972-W485	2441418.30	1972 Apr 10 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1972-W486	2441418.34	1972 Apr 10 2008:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W487	2441418.40	1972 Apr 10 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	51	-	-
1972-W488	2441418.56	1972 Apr 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W489	2441419.21	1972 Apr 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1972-W492	2441420.08	1972 Apr 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W493	2441420.10	1972 Apr 12 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W494	2441420.12	1972 Apr 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-A30	2441420.20	1972 Apr 12 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	47	-	-
1972-W496	2441420.20	1972 Apr 12 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1972-W497	2441420.29	1972 Apr 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1972-W498	2441420.57	1972 Apr 13 0138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W500	2441422.04	1972 Apr 14 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W501	2441422.08	1972 Apr 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1972-W502	2441422.12	1972 Apr 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W503	2441422.16	1972 Apr 14 1548:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W504	2441422.17	1972 Apr 14 1604:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	54	-	-
1972-W505	2441422.28	1972 Apr 14 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W506	2441422.33	1972 Apr 14 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1972-W508	2441423.04	1972 Apr 15 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W509	2441424.31	1972 Apr 16 1923:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W510	2441425.08	1972 Apr 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W511	2441425.10	1972 Apr 17 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W512	2441425.12	1972 Apr 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W513	2441425.22	1972 Apr 17 1715:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1972-W514	2441425.26	1972 Apr 17 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W515	2441425.31	1972 Apr 17 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	53	-	-
1972-W516	2441425.33	1972 Apr 17 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W517	2441425.40	1972 Apr 17 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1972-W518	2441425.56	1972 Apr 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W519	2441426.14	1972 Apr 18 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1972-W520	2441426.30	1972 Apr 18 1908:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-Y128	2441426.92	1972 Apr 19 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	103	-	-
1972-W521	2441427.08	1972 Apr 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W522	2441427.10	1972 Apr 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W523	2441427.12	1972 Apr 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W524	2441427.17	1972 Apr 19 1603:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W525	2441427.19	1972 Apr 19 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1972-Y131	2441427.20	1972 Apr 19 1644:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	92	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y132	2441427.29	1972 Apr 19 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W526	2441427.29	1972 Apr 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1972-W527	2441427.31	1972 Apr 19 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-A33	2441427.34	1972 Apr 19 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	48	-	-
1972-A34	2441427.38	1972 Apr 19 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1972-W528	2441427.50	1972 Apr 20 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1972-W530	2441428.25	1972 Apr 20 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1972-W531	2441429.08	1972 Apr 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W532	2441429.10	1972 Apr 21 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W533	2441429.12	1972 Apr 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W534	2441429.25	1972 Apr 21 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W535	2441429.29	1972 Apr 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-A36	2441429.34	1972 Apr 21 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	48	-	-
1972-W536	2441429.56	1972 Apr 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W538	2441432.08	1972 Apr 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-A37	2441432.09	1972 Apr 24 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	40	-	-
1972-W539	2441432.15	1972 Apr 24 1530:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1972-W540	2441432.17	1972 Apr 24 1604:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1972-W541	2441432.19	1972 Apr 24 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-W542	2441432.23	1972 Apr 24 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W543	2441432.31	1972 Apr 24 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1972-W544	2441432.34	1972 Apr 24 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1972-W545	2441432.35	1972 Apr 24 2021:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-A38	2441432.42	1972 Apr 24 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	45	-	-
1972-W546	2441432.56	1972 Apr 25 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W548	2441433.12	1972 Apr 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1972-W549	2441433.19	1972 Apr 25 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W550	2441433.19	1972 Apr 25 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W551	2441434.10	1972 Apr 26 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W552	2441434.12	1972 Apr 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W553	2441434.15	1972 Apr 26 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1972-W554	2441434.20	1972 Apr 26 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1972-W555	2441434.29	1972 Apr 26 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1972-W556	2441434.42	1972 Apr 26 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W557	2441434.54	1972 Apr 27 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W558	2441434.57	1972 Apr 27 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1972-W560	2441435.29	1972 Apr 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W561	2441435.31	1972 Apr 27 1930:00	Rocketsonde	-	-	Density gauge	-	-	-	KMR	-	-	-	55	-	-
1972-W562	2441436.08	1972 Apr 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W563	2441436.10	1972 Apr 28 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1972-W564	2441436.12	1972 Apr 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W565	2441436.15	1972 Apr 28 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1972-W566	2441436.15	1972 Apr 28 1533:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1972-W567	2441436.27	1972 Apr 28 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W568	2441436.29	1972 Apr 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1972-W569	2441436.29	1972 Apr 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W570	2441436.40	1972 Apr 28 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1972-W571	2441436.55	1972 Apr 29 0110:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1972-W572	2441439.07	1972 May 1 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W573	2441439.08	1972 May 1 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1972-W574	2441439.08	1972 May 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W575	2441439.12	1972 May 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W576	2441439.15	1972 May 1 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1972-W577	2441439.28	1972 May 1 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W578	2441439.32	1972 May 1 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1972-W579	2441439.38	1972 May 1 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1972-W580	2441439.46	1972 May 1 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1972-W581	2441439.56	1972 May 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-A42	2441440.21	1972 May 2 1656:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	49	-	-
1972-Y134	2441440.94	1972 May 3 1030:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	102	-	-
1972-W583	2441441.08	1972 May 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W584	2441441.11	1972 May 3 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	59	-	-
1972-A43	2441441.11	1972 May 3 1435:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1972-W586	2441441.12	1972 May 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1972-W587	2441441.12	1972 May 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W588	2441441.15	1972 May 3 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1972-A44	2441441.16	1972 May 3 1548:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1972-W589	2441441.23	1972 May 3 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W590	2441441.29	1972 May 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1972-W591	2441441.33	1972 May 3 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W592	2441441.44	1972 May 3 2236:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W593	2441441.56	1972 May 4 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W594	2441442.14	1972 May 4 1526:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W597	2441443.07	1972 May 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W598	2441443.08	1972 May 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W599	2441443.12	1972 May 5 1448:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1972-W600	2441443.12	1972 May 5 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W601	2441443.12	1972 May 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W602	2441443.15	1972 May 5 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1972-W603	2441443.15	1972 May 5 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-A46	2441443.25	1972 May 5 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	47	-	-
1972-W604	2441443.29	1972 May 5 1900:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1972-Y136	2441443.30	1972 May 5 1907:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	92	-	-
1972-A47	2441443.30	1972 May 5 1909:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	46	-	-
1972-W605	2441443.32	1972 May 5 1943:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W607	2441443.39	1972 May 5 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W608	2441443.57	1972 May 6 0138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W609	2441446.07	1972 May 8 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W610	2441446.08	1972 May 8 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W611	2441446.08	1972 May 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1972-W612	2441446.10	1972 May 8 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1972-W613	2441446.11	1972 May 8 1435:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1972-W615	2441446.12	1972 May 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1972-W616	2441446.21	1972 May 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W617	2441446.31	1972 May 8 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W618	2441446.32	1972 May 8 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	50	-	-
1972-W619	2441446.37	1972 May 8 2054:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W620	2441446.56	1972 May 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W621	2441447.09	1972 May 9 1403:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	50	-	-
1972-W623	2441448.08	1972 May 10 1354:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1972-W624	2441448.08	1972 May 10 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1972-W625	2441448.08	1972 May 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W626	2441448.11	1972 May 10 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1972-A49	2441448.19	1972 May 10 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	48	-	-
1972-W628	2441448.21	1972 May 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W629	2441448.29	1972 May 10 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W630	2441448.29	1972 May 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W631	2441448.38	1972 May 10 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1972-W632	2441448.57	1972 May 11 0136:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-A50	2441449.08	1972 May 11 1400:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	45	-	-
1972-W633	2441449.12	1972 May 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W634	2441449.21	1972 May 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-A51	2441449.31	1972 May 11 1925:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	48	-	-
1972-W635	2441450.07	1972 May 12 1337:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W636	2441450.08	1972 May 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W637	2441450.08	1972 May 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W639	2441450.12	1972 May 12 1447:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1972-W640	2441450.12	1972 May 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W641	2441450.15	1972 May 12 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-A52	2441450.29	1972 May 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1972-W642	2441450.41	1972 May 12 2152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W643	2441450.56	1972 May 13 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W644	2441453.08	1972 May 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1972-W645	2441453.10	1972 May 15 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-A53	2441453.11	1972 May 15 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1972-W647	2441453.12	1972 May 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W648	2441453.17	1972 May 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W649	2441453.25	1972 May 15 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W650	2441453.27	1972 May 15 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-A54	2441453.32	1972 May 15 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	47	-	-
1972-W651	2441453.38	1972 May 15 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W652	2441454.08	1972 May 16 1400:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	51	-	-
1972-W655	2441455.07	1972 May 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W656	2441455.08	1972 May 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1972-W657	2441455.09	1972 May 17 1415:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1972-W658	2441455.10	1972 May 17 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	54	-	-
1972-W659	2441455.11	1972 May 17 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	76	-	-
1972-W660	2441455.12	1972 May 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W663	2441455.23	1972 May 17 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W664	2441455.27	1972 May 17 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1972-A55	2441455.35	1972 May 17 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1972-W665	2441455.39	1972 May 17 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-Y140	2441455.44	1972 May 17 2235:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W666	2441455.46	1972 May 17 2255:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W667	2441455.47	1972 May 17 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1972-A56	2441455.56	1972 May 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	47	-	-
1972-W668	2441456.11	1972 May 18 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	62	-	-
1972-W669	2441456.12	1972 May 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W671	2441457.06	1972 May 19 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	50	-	-
1972-W672	2441457.08	1972 May 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1972-W673	2441457.10	1972 May 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1972-W675	2441457.12	1972 May 19 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-Y141	2441457.15	1972 May 19 1529:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W676	2441457.17	1972 May 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-A57	2441457.29	1972 May 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	49	-	-
1972-W677	2441457.38	1972 May 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W678	2441460.12	1972 May 22 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W679	2441460.12	1972 May 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W680	2441460.15	1972 May 22 1534:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1972-W681	2441460.21	1972 May 22 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W682	2441460.29	1972 May 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1972-W683	2441460.38	1972 May 22 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W684	2441460.56	1972 May 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W686	2441462.08	1972 May 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W688	2441462.11	1972 May 24 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1972-W689	2441462.12	1972 May 24 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W690	2441462.18	1972 May 24 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	58	-	-
1972-W691	2441462.18	1972 May 24 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W692	2441462.23	1972 May 24 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-A60	2441462.27	1972 May 24 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	46	-	-
1972-W693	2441462.31	1972 May 24 1923:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1972-W695	2441464.08	1972 May 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W696	2441464.08	1972 May 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W697	2441464.10	1972 May 26 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1972-W698	2441464.10	1972 May 26 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1972-W700	2441464.12	1972 May 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W701	2441464.25	1972 May 26 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W702	2441464.27	1972 May 26 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1972-W703	2441464.29	1972 May 26 1857:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W704	2441464.37	1972 May 26 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W706	2441468.12	1972 May 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W707	2441468.21	1972 May 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W708	2441468.28	1972 May 30 1841:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1972-W709	2441468.39	1972 May 30 2126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W714	2441468.93	1972 May 31 1014:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	72	-	-
1972-W715	2441469.06	1972 May 31 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W716	2441469.07	1972 May 31 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W717	2441469.08	1972 May 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W718	2441469.09	1972 May 31 1414:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-W719	2441469.11	1972 May 31 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1972-W721	2441469.11	1972 May 31 1444:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	60	-	-
1972-W722	2441469.12	1972 May 31 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-A61	2441469.16	1972 May 31 1549:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	49	-	-
1972-W723	2441469.18	1972 May 31 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W724	2441469.24	1972 May 31 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W725	2441469.26	1972 May 31 1820:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	54	-	-
1972-Y143	2441469.38	1972 May 31 2112:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1972-W726	2441469.40	1972 May 31 2131:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W727	2441469.50	1972 Jun 1 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W728	2441470.66	1972 Jun 2 0345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W729	2441470.86	1972 Jun 2 0832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W730	2441471.08	1972 Jun 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W731	2441471.08	1972 Jun 2 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W732	2441471.12	1972 Jun 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W733	2441471.17	1972 Jun 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W734	2441471.29	1972 Jun 2 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W735	2441471.38	1972 Jun 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W736	2441471.42	1972 Jun 2 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W737	2441471.56	1972 Jun 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W738	2441471.68	1972 Jun 3 0424:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W739	2441474.07	1972 Jun 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W740	2441474.08	1972 Jun 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W741	2441474.12	1972 Jun 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W742	2441474.13	1972 Jun 5 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W743	2441474.23	1972 Jun 5 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W744	2441474.31	1972 Jun 5 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W745	2441474.48	1972 Jun 5 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-A62	2441475.29	1972 Jun 6 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	49	-	-
1972-W746	2441476.08	1972 Jun 7 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W747	2441476.08	1972 Jun 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W748	2441476.10	1972 Jun 7 1426:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W749	2441476.10	1972 Jun 7 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1972-W750	2441476.12	1972 Jun 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W751	2441476.23	1972 Jun 7 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W752	2441476.24	1972 Jun 7 1746:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W753	2441476.38	1972 Jun 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W754	2441476.50	1972 Jun 7 2359:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1972-W755	2441477.45	1972 Jun 8 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1972-W756	2441478.08	1972 Jun 9 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1972-W757	2441478.08	1972 Jun 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W758	2441478.09	1972 Jun 9 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W759	2441478.12	1972 Jun 9 1448:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W760	2441478.12	1972 Jun 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W761	2441478.29	1972 Jun 9 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W762	2441478.38	1972 Jun 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W763	2441478.41	1972 Jun 9 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W764	2441478.50	1972 Jun 9 2359:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W765	2441480.92	1972 Jun 12 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W766	2441481.04	1972 Jun 12 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W767	2441481.12	1972 Jun 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W768	2441481.17	1972 Jun 12 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1972-W769	2441481.17	1972 Jun 12 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W770	2441481.26	1972 Jun 12 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W771	2441481.29	1972 Jun 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1972-W772	2441481.39	1972 Jun 12 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1972-W773	2441481.44	1972 Jun 12 2236:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1972-W774	2441482.05	1972 Jun 13 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W775	2441482.15	1972 Jun 13 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W776	2441483.04	1972 Jun 14 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W777	2441483.07	1972 Jun 14 1340:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1972-W778	2441483.08	1972 Jun 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W779	2441483.11	1972 Jun 14 1434:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1972-W780	2441483.12	1972 Jun 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W781	2441483.17	1972 Jun 14 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-Y146	2441483.40	1972 Jun 14 2130:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W782	2441483.41	1972 Jun 14 2156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W783	2441483.42	1972 Jun 14 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W784	2441483.50	1972 Jun 14 2354:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W786	2441484.16	1972 Jun 15 1546:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1972-W787	2441484.26	1972 Jun 15 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1972-W788	2441484.32	1972 Jun 15 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W789	2441485.08	1972 Jun 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W790	2441485.12	1972 Jun 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1972-W791	2441485.12	1972 Jun 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W792	2441485.16	1972 Jun 16 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W793	2441485.17	1972 Jun 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W794	2441485.40	1972 Jun 16 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W795	2441485.42	1972 Jun 16 2203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W796	2441485.49	1972 Jun 16 2348:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W797	2441485.53	1972 Jun 17 0049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W798	2441486.12	1972 Jun 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W799	2441487.12	1972 Jun 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1972-W800	2441488.12	1972 Jun 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W801	2441488.17	1972 Jun 19 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W802	2441488.19	1972 Jun 19 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W803	2441488.22	1972 Jun 19 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W804	2441488.29	1972 Jun 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1972-W805	2441488.34	1972 Jun 19 2003:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1972-W806	2441488.44	1972 Jun 19 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W807	2441488.49	1972 Jun 19 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	52	-	-
1972-W808	2441489.09	1972 Jun 20 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1972-W809	2441489.15	1972 Jun 20 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1972-W810	2441489.23	1972 Jun 20 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1972-W811	2441490.10	1972 Jun 21 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1972-W812	2441490.14	1972 Jun 21 1517:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-W813	2441490.16	1972 Jun 21 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W814	2441490.17	1972 Jun 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1972-W815	2441490.23	1972 Jun 21 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1972-W816	2441490.45	1972 Jun 21 2247:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W817	2441490.50	1972 Jun 21 2358:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1972-W818	2441491.08	1972 Jun 22 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1972-A68	2441491.11	1972 Jun 22 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	31	-	-
1972-W819	2441491.12	1972 Jun 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W820	2441491.15	1972 Jun 22 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W821	2441491.16	1972 Jun 22 1547:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W822	2441491.22	1972 Jun 22 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W823	2441492.06	1972 Jun 23 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W824	2441492.12	1972 Jun 23 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W825	2441492.12	1972 Jun 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W826	2441492.12	1972 Jun 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-A69	2441492.15	1972 Jun 23 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	43	-	-
1972-W827	2441492.28	1972 Jun 23 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W828	2441492.43	1972 Jun 23 2221:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W829	2441492.49	1972 Jun 23 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W830	2441493.12	1972 Jun 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W831	2441495.08	1972 Jun 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W832	2441495.12	1972 Jun 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W833	2441495.20	1972 Jun 26 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W834	2441495.27	1972 Jun 26 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1972-W835	2441495.46	1972 Jun 26 2303:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W836	2441495.52	1972 Jun 27 0026:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	53	-	-
1972-W837	2441497.07	1972 Jun 28 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W838	2441497.12	1972 Jun 28 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W839	2441497.14	1972 Jun 28 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W840	2441497.15	1972 Jun 28 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1972-W841	2441497.19	1972 Jun 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-A70	2441497.22	1972 Jun 28 1720:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	49	-	-
1972-W843	2441497.27	1972 Jun 28 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1972-W844	2441497.49	1972 Jun 28 2348:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W845	2441498.08	1972 Jun 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W846	2441498.09	1972 Jun 29 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1972-W849	2441499.07	1972 Jun 30 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1972-W850	2441499.08	1972 Jun 30 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W852	2441499.31	1972 Jun 30 1923:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1972-W853	2441499.34	1972 Jun 30 2003:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-Y149	2441499.35	1972 Jun 30 2030:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W854	2441499.37	1972 Jun 30 2047:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W855	2441499.49	1972 Jun 30 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1972-W856	2441502.06	1972 Jul 3 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W857	2441502.07	1972 Jul 3 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W858	2441502.12	1972 Jul 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W859	2441502.25	1972 Jul 3 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1972-W860	2441504.06	1972 Jul 5 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W861	2441504.11	1972 Jul 5 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	65	-	-
1972-W862	2441504.12	1972 Jul 5 1452:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-A71	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	30	-	-
1972-W864	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W865	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W866	2441504.28	1972 Jul 5 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1972-W867	2441504.38	1972 Jul 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W868	2441504.52	1972 Jul 6 0024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W869	2441505.09	1972 Jul 6 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W870	2441505.12	1972 Jul 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W871	2441506.06	1972 Jul 7 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W872	2441506.07	1972 Jul 7 1347:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W873	2441506.09	1972 Jul 7 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W874	2441506.10	1972 Jul 7 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1972-W875	2441506.13	1972 Jul 7 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W876	2441506.14	1972 Jul 7 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W877	2441506.17	1972 Jul 7 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W878	2441506.21	1972 Jul 7 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1972-W879	2441506.27	1972 Jul 7 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1972-W880	2441506.38	1972 Jul 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W881	2441507.12	1972 Jul 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W882	2441509.06	1972 Jul 10 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W883	2441509.07	1972 Jul 10 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W884	2441509.12	1972 Jul 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1972-W885	2441509.20	1972 Jul 10 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1972-W886	2441509.21	1972 Jul 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W887	2441509.31	1972 Jul 10 1929:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W888	2441509.39	1972 Jul 10 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W889	2441509.60	1972 Jul 11 0220:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1972-W890	2441510.27	1972 Jul 11 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1972-W891	2441511.07	1972 Jul 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W892	2441511.12	1972 Jul 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W893	2441511.13	1972 Jul 12 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W894	2441511.14	1972 Jul 12 1522:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-W895	2441511.20	1972 Jul 12 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W896	2441511.27	1972 Jul 12 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-Y163	2441511.42	1972 Jul 12 2159:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	93	-	-
1972-W899	2441511.44	1972 Jul 12 2238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W902	2441512.31	1972 Jul 13 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1972-W906	2441513.07	1972 Jul 14 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W907	2441513.08	1972 Jul 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W908	2441513.10	1972 Jul 14 1424:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W910	2441513.12	1972 Jul 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W912	2441513.42	1972 Jul 14 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-A75	2441513.49	1972 Jul 14 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	46	-	-
1972-W913	2441516.07	1972 Jul 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W914	2441516.08	1972 Jul 17 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1972-W915	2441516.08	1972 Jul 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W916	2441516.12	1972 Jul 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1972-W917	2441516.19	1972 Jul 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1972-W918	2441516.24	1972 Jul 17 1744:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W919	2441516.27	1972 Jul 17 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W920	2441516.29	1972 Jul 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1972-W921	2441516.42	1972 Jul 17 2157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W922	2441517.04	1972 Jul 18 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W923	2441517.08	1972 Jul 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1972-A78	2441518.07	1972 Jul 19 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	38	-	-
1972-W924	2441518.08	1972 Jul 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W925	2441518.10	1972 Jul 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	55	-	-
1972-W926	2441518.10	1972 Jul 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-A79	2441518.12	1972 Jul 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	29	-	-
1972-W927	2441518.12	1972 Jul 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W928	2441518.13	1972 Jul 19 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W929	2441518.20	1972 Jul 19 1642:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1972-W930	2441518.20	1972 Jul 19 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W931	2441518.21	1972 Jul 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W932	2441518.21	1972 Jul 19 1709:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1972-W933	2441518.22	1972 Jul 19 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	61	-	-
1972-W934	2441518.25	1972 Jul 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W935	2441518.38	1972 Jul 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W936	2441520.07	1972 Jul 21 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W937	2441520.08	1972 Jul 21 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1972-W938	2441520.08	1972 Jul 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W940	2441520.12	1972 Jul 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W941	2441520.22	1972 Jul 21 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1972-W942	2441520.26	1972 Jul 21 1811:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W943	2441520.28	1972 Jul 21 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1972-W944	2441520.30	1972 Jul 21 1907:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W945	2441520.42	1972 Jul 21 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W946	2441523.07	1972 Jul 24 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W947	2441523.08	1972 Jul 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W948	2441523.12	1972 Jul 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W949	2441523.19	1972 Jul 24 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W950	2441523.27	1972 Jul 24 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1972-W951	2441523.30	1972 Jul 24 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W952	2441523.42	1972 Jul 24 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W953	2441524.08	1972 Jul 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W954	2441524.08	1972 Jul 25 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1972-W955	2441524.12	1972 Jul 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W956	2441524.17	1972 Jul 25 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W957	2441524.62	1972 Jul 26 0300:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1972-W958	2441525.06	1972 Jul 26 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W959	2441525.07	1972 Jul 26 1347:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W960	2441525.09	1972 Jul 26 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W961	2441525.09	1972 Jul 26 1414:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W963	2441525.14	1972 Jul 26 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1972-Y174	2441525.14	1972 Jul 26 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	99	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W964	2441525.18	1972 Jul 26 1615:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-Y175	2441525.19	1972 Jul 26 1632:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	95	-	-
1972-W965	2441525.20	1972 Jul 26 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W966	2441525.25	1972 Jul 26 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W967	2441525.27	1972 Jul 26 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1972-W968	2441525.38	1972 Jul 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W969	2441525.50	1972 Jul 27 0007:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1972-W970	2441526.25	1972 Jul 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1972-W971	2441527.07	1972 Jul 28 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1972-W972	2441527.11	1972 Jul 28 1432:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1972-W973	2441527.12	1972 Jul 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W974	2441527.17	1972 Jul 28 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1972-W975	2441527.24	1972 Jul 28 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1972-W976	2441527.25	1972 Jul 28 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	54	-	-
1972-W977	2441527.28	1972 Jul 28 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1972-W978	2441527.30	1972 Jul 28 1907:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1972-Y177	2441527.42	1972 Jul 28 2206:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1972-W979	2441527.43	1972 Jul 28 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W980	2441527.49	1972 Jul 28 2348:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W982	2441530.08	1972 Jul 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1973-W06	2441685.29	1973 Jan 2 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1973-W07	2441685.46	1973 Jan 2 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W08	2441685.51	1973 Jan 3 0020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-Y15	2441686.09	1973 Jan 3 1415:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1973-W09	2441686.14	1973 Jan 3 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	70	-	-
1973-W10	2441686.18	1973 Jan 3 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1973-W11	2441686.19	1973 Jan 3 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W13	2441686.26	1973 Jan 3 1812:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1973-W14	2441686.29	1973 Jan 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1973-W15	2441686.29	1973 Jan 3 1903:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	68	-	-
1973-W16	2441686.31	1973 Jan 3 1932:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W17	2441686.40	1973 Jan 3 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W18	2441686.50	1973 Jan 3 2353:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1973-W20	2441687.20	1973 Jan 4 1654:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1973-W21	2441687.22	1973 Jan 4 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W22	2441687.31	1973 Jan 4 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W23	2441687.38	1973 Jan 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W25	2441688.16	1973 Jan 5 1554:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W26	2441688.19	1973 Jan 5 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1973-W27	2441688.23	1973 Jan 5 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1973-W28	2441688.27	1973 Jan 5 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W29	2441688.29	1973 Jan 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1973-W30	2441688.41	1973 Jan 5 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W31	2441688.51	1973 Jan 6 0019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1973-W34	2441691.08	1973 Jan 8 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1973-W35	2441691.18	1973 Jan 8 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	74	-	-
1973-W37	2441691.22	1973 Jan 8 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W38	2441691.24	1973 Jan 8 1748:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	69	-	-
1973-W39	2441691.25	1973 Jan 8 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1973-W40	2441691.26	1973 Jan 8 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1973-W41	2441691.34	1973 Jan 8 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W42	2441691.39	1973 Jan 8 2126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W43	2441691.49	1973 Jan 8 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1973-W44	2441692.19	1973 Jan 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1973-W45	2441692.30	1973 Jan 9 1918:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W47	2441692.35	1973 Jan 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W48	2441693.10	1973 Jan 10 1422:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-W49	2441693.16	1973 Jan 10 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W50	2441693.19	1973 Jan 10 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W52	2441693.20	1973 Jan 10 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1973-Y28	2441693.21	1973 Jan 10 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	89	-	-
1973-W53	2441693.21	1973 Jan 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	64	-	-
1973-W54	2441693.24	1973 Jan 10 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W55	2441693.29	1973 Jan 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W56	2441693.31	1973 Jan 10 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-Y29	2441693.33	1973 Jan 10 2000:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W57	2441693.33	1973 Jan 10 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1973-W58	2441693.35	1973 Jan 10 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W59	2441693.49	1973 Jan 10 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1973-W61	2441694.24	1973 Jan 11 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1973-W62	2441694.35	1973 Jan 11 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W63	2441694.49	1973 Jan 11 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W64	2441694.71	1973 Jan 12 0504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	75	-	-
1973-W65	2441694.86	1973 Jan 12 0835:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	75	-	-
1973-W66	2441694.86	1973 Jan 12 0835:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W67	2441694.94	1973 Jan 12 1034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W68	2441695.10	1973 Jan 12 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1973-W69	2441695.15	1973 Jan 12 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	76	-	-
1973-W71	2441695.20	1973 Jan 12 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1973-W72	2441695.22	1973 Jan 12 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-W73	2441695.27	1973 Jan 12 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W74	2441695.28	1973 Jan 12 1842:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W75	2441695.35	1973 Jan 12 2024:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W76	2441695.38	1973 Jan 12 2108:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1973-W77	2441695.49	1973 Jan 12 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1973-W78	2441696.47	1973 Jan 13 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W79	2441698.12	1973 Jan 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W80	2441698.18	1973 Jan 15 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	74	-	-
1973-W81	2441698.20	1973 Jan 15 1649:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	60	-	-
1973-A02	2441698.26	1973 Jan 15 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	46	-	-
1973-W82	2441698.26	1973 Jan 15 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W83	2441698.27	1973 Jan 15 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W85	2441698.40	1973 Jan 15 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1973-W86	2441698.49	1973 Jan 15 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W88	2441699.20	1973 Jan 16 1653:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1973-W89	2441699.29	1973 Jan 16 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W90	2441699.29	1973 Jan 16 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1973-W91	2441699.31	1973 Jan 16 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W92	2441699.38	1973 Jan 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W93	2441700.09	1973 Jan 17 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W94	2441700.13	1973 Jan 17 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	59	-	-
1973-W96	2441700.19	1973 Jan 17 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1973-W97	2441700.20	1973 Jan 17 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-Y35	2441700.21	1973 Jan 17 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	99	-	-
1973-W99	2441700.29	1973 Jan 17 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	65	-	-
1973-W100	2441700.33	1973 Jan 17 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W101	2441700.33	1973 Jan 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-Y36	2441700.33	1973 Jan 17 2002:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W102	2441700.37	1973 Jan 17 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W103	2441700.40	1973 Jan 17 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W104	2441700.49	1973 Jan 17 2340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W105	2441701.32	1973 Jan 18 1941:00	Rocketsonde	-	-	Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W106	2441701.38	1973 Jan 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W107	2441702.10	1973 Jan 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-W109	2441702.20	1973 Jan 19 1645:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1973-W110	2441702.20	1973 Jan 19 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W112	2441702.21	1973 Jan 19 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1973-W113	2441702.28	1973 Jan 19 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W114	2441702.31	1973 Jan 19 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W115	2441702.38	1973 Jan 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W116	2441702.49	1973 Jan 19 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W117	2441705.18	1973 Jan 22 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W118	2441705.18	1973 Jan 22 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W119	2441705.19	1973 Jan 22 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1973-W120	2441705.31	1973 Jan 22 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W121	2441705.31	1973 Jan 22 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W123	2441705.40	1973 Jan 22 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W124	2441705.49	1973 Jan 22 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W126	2441706.15	1973 Jan 23 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W127	2441706.31	1973 Jan 23 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W128	2441706.34	1973 Jan 23 2015:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W129	2441706.38	1973 Jan 23 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W130	2441706.44	1973 Jan 23 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W131	2441707.10	1973 Jan 24 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	61	-	-
1973-W133	2441707.17	1973 Jan 24 1603:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W134	2441707.19	1973 Jan 24 1636:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1973-Y43	2441707.21	1973 Jan 24 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	101	-	-
1973-Y44	2441707.25	1973 Jan 24 1757:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	89	-	-
1973-W135	2441707.27	1973 Jan 24 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W136	2441707.29	1973 Jan 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W137	2441707.44	1973 Jan 24 2232:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W138	2441707.49	1973 Jan 24 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1973-W139	2441708.32	1973 Jan 25 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W141	2441709.11	1973 Jan 26 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W142	2441709.12	1973 Jan 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W143	2441709.13	1973 Jan 26 1510:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1973-W144	2441709.14	1973 Jan 26 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1973-W145	2441709.28	1973 Jan 26 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W146	2441709.30	1973 Jan 26 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W147	2441709.49	1973 Jan 26 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1973-W149	2441711.77	1973 Jan 29 0633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W150	2441712.10	1973 Jan 29 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W151	2441712.18	1973 Jan 29 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W152	2441712.23	1973 Jan 29 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W153	2441712.35	1973 Jan 29 2024:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1973-W154	2441712.40	1973 Jan 29 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W155	2441712.49	1973 Jan 29 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1973-W156	2441713.26	1973 Jan 30 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W157	2441713.31	1973 Jan 30 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W158	2441713.38	1973 Jan 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W159	2441714.10	1973 Jan 31 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W160	2441714.12	1973 Jan 31 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1973-Y56	2441714.21	1973 Jan 31 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W161	2441714.26	1973 Jan 31 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W162	2441714.28	1973 Jan 31 1838:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-Y57	2441714.29	1973 Jan 31 1858:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W163	2441714.31	1973 Jan 31 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	57	-	-
1973-W164	2441714.31	1973 Jan 31 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-Y58	2441714.38	1973 Jan 31 2101:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W165	2441714.40	1973 Jan 31 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W166	2441714.49	1973 Jan 31 2349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1973-W168	2441715.24	1973 Feb 1 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W169	2441715.33	1973 Feb 1 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W170	2441715.41	1973 Feb 1 2148:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W173	2441716.10	1973 Feb 2 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W174	2441716.12	1973 Feb 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W175	2441716.29	1973 Feb 2 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W176	2441716.30	1973 Feb 2 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W177	2441716.35	1973 Feb 2 2021:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1973-Y61	2441716.35	1973 Feb 2 2026:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W178	2441716.44	1973 Feb 2 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W179	2441716.49	1973 Feb 2 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1973-A05	2441719.18	1973 Feb 5 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	44	-	-
1973-W182	2441719.19	1973 Feb 5 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1973-W183	2441719.27	1973 Feb 5 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W184	2441719.30	1973 Feb 5 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W185	2441719.34	1973 Feb 5 2007:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W186	2441719.48	1973 Feb 5 2332:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W187	2441719.49	1973 Feb 5 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1973-W189	2441720.10	1973 Feb 6 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1973-W190	2441720.10	1973 Feb 6 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1973-W191	2441720.27	1973 Feb 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1973-W192	2441720.32	1973 Feb 6 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W195	2441721.12	1973 Feb 7 1455:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	THU	-	-	-	62	-	-
1973-W196	2441721.20	1973 Feb 7 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-Y69	2441721.21	1973 Feb 7 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W197	2441721.25	1973 Feb 7 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1973-W198	2441721.27	1973 Feb 7 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-Y70	2441721.29	1973 Feb 7 1856:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W199	2441721.29	1973 Feb 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1973-W200	2441721.31	1973 Feb 7 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W201	2441721.40	1973 Feb 7 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W202	2441721.50	1973 Feb 7 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W205	2441722.08	1973 Feb 8 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1973-W206	2441722.12	1973 Feb 8 1451:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W207	2441722.12	1973 Feb 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W208	2441722.25	1973 Feb 8 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-A06	2441722.33	1973 Feb 8 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	47	-	-
1973-W209	2441722.40	1973 Feb 8 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W211	2441723.09	1973 Feb 9 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1973-W212	2441723.10	1973 Feb 9 1430:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	62	-	-
1973-W213	2441723.13	1973 Feb 9 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-Y73	2441723.21	1973 Feb 9 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W215	2441723.31	1973 Feb 9 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-W216	2441723.33	1973 Feb 9 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W217	2441723.42	1973 Feb 9 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W218	2441723.49	1973 Feb 9 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	52	-	-
1973-W219	2441726.10	1973 Feb 12 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W220	2441726.19	1973 Feb 12 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W221	2441726.25	1973 Feb 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1973-W222	2441726.26	1973 Feb 12 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1973-W223	2441726.28	1973 Feb 12 1840:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1973-W224	2441726.30	1973 Feb 12 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W225	2441726.36	1973 Feb 12 2032:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1973-W227	2441726.38	1973 Feb 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W228	2441726.49	1973 Feb 12 2340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W231	2441727.24	1973 Feb 13 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W232	2441727.29	1973 Feb 13 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W233	2441727.33	1973 Feb 13 1952:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1973-W234	2441727.39	1973 Feb 13 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W235	2441728.08	1973 Feb 14 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1973-W236	2441728.11	1973 Feb 14 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	53	-	-
1973-W237	2441728.13	1973 Feb 14 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	60	-	-
1973-W238	2441728.14	1973 Feb 14 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W240	2441728.20	1973 Feb 14 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-Y79	2441728.21	1973 Feb 14 1707:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W241	2441728.27	1973 Feb 14 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W242	2441728.29	1973 Feb 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1973-W243	2441728.31	1973 Feb 14 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1973-W244	2441728.33	1973 Feb 14 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1973-Y80	2441728.38	1973 Feb 14 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W245	2441728.38	1973 Feb 14 2112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W246	2441728.50	1973 Feb 14 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W248	2441729.25	1973 Feb 15 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W249	2441729.39	1973 Feb 15 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W250	2441729.42	1973 Feb 15 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W251	2441730.08	1973 Feb 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1973-W252	2441730.09	1973 Feb 16 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-Y81	2441730.23	1973 Feb 16 1731:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	80	-	-
1973-W254	2441730.26	1973 Feb 16 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W255	2441730.38	1973 Feb 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W256	2441730.49	1973 Feb 16 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W258	2441734.09	1973 Feb 20 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1973-W259	2441734.12	1973 Feb 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W261	2441734.24	1973 Feb 20 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W262	2441734.28	1973 Feb 20 1845:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W263	2441734.32	1973 Feb 20 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W265	2441735.12	1973 Feb 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W266	2441735.15	1973 Feb 21 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W267	2441735.27	1973 Feb 21 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	78	-	-
1973-W268	2441735.29	1973 Feb 21 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W269	2441735.31	1973 Feb 21 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W270	2441735.35	1973 Feb 21 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W271	2441735.44	1973 Feb 21 2233:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W272	2441735.49	1973 Feb 21 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1973-W274	2441736.29	1973 Feb 22 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W275	2441736.39	1973 Feb 22 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W276	2441736.39	1973 Feb 22 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W278	2441737.12	1973 Feb 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W279	2441737.15	1973 Feb 23 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W280	2441737.16	1973 Feb 23 1554:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-Y89	2441737.21	1973 Feb 23 1703:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W281	2441737.24	1973 Feb 23 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W282	2441737.31	1973 Feb 23 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W283	2441737.35	1973 Feb 23 2023:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W284	2441737.38	1973 Feb 23 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W285	2441737.49	1973 Feb 23 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W287	2441740.09	1973 Feb 26 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	79	-	-
1973-W288	2441740.19	1973 Feb 26 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W289	2441740.27	1973 Feb 26 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W290	2441740.36	1973 Feb 26 2037:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W291	2441740.38	1973 Feb 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W292	2441741.24	1973 Feb 27 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W293	2441741.29	1973 Feb 27 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	68	-	-
1973-W294	2441741.35	1973 Feb 27 2023:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1973-W295	2441741.44	1973 Feb 27 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W296	2441741.49	1973 Feb 27 2352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W297	2441742.12	1973 Feb 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W298	2441742.14	1973 Feb 28 1527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W299	2441742.19	1973 Feb 28 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1973-Y102	2441742.21	1973 Feb 28 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W300	2441742.29	1973 Feb 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	76	-	-
1973-W301	2441742.30	1973 Feb 28 1907:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1973-A11	2441742.33	1973 Feb 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	49	-	-
1973-W302	2441742.38	1973 Feb 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W303	2441742.49	1973 Feb 28 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W305	2441743.10	1973 Mar 1 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	57	-	-
1973-W307	2441743.26	1973 Mar 1 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W308	2441743.39	1973 Mar 1 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W309	2441744.08	1973 Mar 2 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1973-W310	2441744.08	1973 Mar 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W311	2441744.12	1973 Mar 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W312	2441744.13	1973 Mar 2 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W314	2441744.30	1973 Mar 2 1910:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W315	2441744.32	1973 Mar 2 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-Y107	2441744.38	1973 Mar 2 2109:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W316	2441744.40	1973 Mar 2 2138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W317	2441744.49	1973 Mar 2 2347:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W318	2441747.08	1973 Mar 5 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W319	2441747.09	1973 Mar 5 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W321	2441747.20	1973 Mar 5 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W322	2441747.25	1973 Mar 5 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W323	2441747.30	1973 Mar 5 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W324	2441747.38	1973 Mar 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W325	2441747.49	1973 Mar 5 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1973-W327	2441748.21	1973 Mar 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-A12	2441748.27	1973 Mar 6 1829:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	30	-	-
1973-W328	2441748.33	1973 Mar 6 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W329	2441748.39	1973 Mar 6 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W330	2441748.58	1973 Mar 7 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W332	2441749.08	1973 Mar 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W333	2441749.09	1973 Mar 7 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1973-W334	2441749.14	1973 Mar 7 1514:59	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	79	-	-
1973-W336	2441749.16	1973 Mar 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-A14	2441749.20	1973 Mar 7 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	47	-	-
1973-W337	2441749.21	1973 Mar 7 1655:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1973-W338	2441749.30	1973 Mar 7 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-Y116	2441749.31	1973 Mar 7 1919:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W339	2441749.31	1973 Mar 7 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W340	2441749.40	1973 Mar 7 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W341	2441749.51	1973 Mar 8 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W342	2441750.08	1973 Mar 8 1349:59	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	78	-	-
1973-W343	2441750.18	1973 Mar 8 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1973-W345	2441750.40	1973 Mar 8 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W346	2441751.09	1973 Mar 9 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-Y122	2441751.15	1973 Mar 9 1531:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	83	-	-
1973-W348	2441751.19	1973 Mar 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1973-W349	2441751.25	1973 Mar 9 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W350	2441751.31	1973 Mar 9 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	78	-	-
1973-W351	2441751.33	1973 Mar 9 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-W352	2441751.40	1973 Mar 9 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1973-W353	2441754.10	1973 Mar 12 1419:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W354	2441754.15	1973 Mar 12 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	79	-	-
1973-W355	2441754.15	1973 Mar 12 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-A15	2441754.16	1973 Mar 12 1549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	42	-	-
1973-W357	2441754.19	1973 Mar 12 1636:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1973-W358	2441754.29	1973 Mar 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W359	2441754.31	1973 Mar 12 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W360	2441754.36	1973 Mar 12 2043:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W361	2441754.38	1973 Mar 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W362	2441754.42	1973 Mar 12 2208:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-A16	2441755.25	1973 Mar 13 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	48	-	-
1973-W364	2441755.37	1973 Mar 13 2056:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W365	2441756.12	1973 Mar 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-W367	2441756.16	1973 Mar 14 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W368	2441756.17	1973 Mar 14 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1973-W369	2441756.21	1973 Mar 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W370	2441756.26	1973 Mar 14 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-Y133	2441756.29	1973 Mar 14 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-Y134	2441756.31	1973 Mar 14 1930:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	89	-	-
1973-W371	2441756.32	1973 Mar 14 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W372	2441756.34	1973 Mar 14 2009:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W373	2441756.38	1973 Mar 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W374	2441756.51	1973 Mar 15 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1973-W375	2441757.15	1973 Mar 15 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W376	2441757.15	1973 Mar 15 1538:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	62	-	-
1973-W378	2441757.26	1973 Mar 15 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W379	2441757.38	1973 Mar 15 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-A17	2441758.08	1973 Mar 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1973-W380	2441758.08	1973 Mar 16 1400:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	52	-	-
1973-W382	2441758.19	1973 Mar 16 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1973-W383	2441758.26	1973 Mar 16 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W384	2441758.29	1973 Mar 16 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W385	2441758.30	1973 Mar 16 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W386	2441758.44	1973 Mar 16 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W387	2441758.49	1973 Mar 16 2347:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1973-W389	2441761.19	1973 Mar 19 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1973-W390	2441761.27	1973 Mar 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W391	2441761.28	1973 Mar 19 1846:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W392	2441761.32	1973 Mar 19 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	75	-	-
1973-W393	2441761.32	1973 Mar 19 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W394	2441761.36	1973 Mar 19 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W395	2441761.40	1973 Mar 19 2135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W396	2441762.12	1973 Mar 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W398	2441762.24	1973 Mar 20 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	76	-	-
1973-W399	2441762.25	1973 Mar 20 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1973-W400	2441762.40	1973 Mar 20 2138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W401	2441763.11	1973 Mar 21 1440:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	63	-	-
1973-W402	2441763.15	1973 Mar 21 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1973-W404	2441763.19	1973 Mar 21 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1973-Y147	2441763.21	1973 Mar 21 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1973-W405	2441763.24	1973 Mar 21 1742:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W406	2441763.29	1973 Mar 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W407	2441763.30	1973 Mar 21 1910:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1973-A18	2441763.34	1973 Mar 21 2015:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	46	-	-
1973-W408	2441763.40	1973 Mar 21 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W410	2441764.32	1973 Mar 22 1937:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1973-W411	2441764.40	1973 Mar 22 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W412	2441764.95	1973 Mar 23 1044:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W413	2441765.09	1973 Mar 23 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1973-W414	2441765.13	1973 Mar 23 1512:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W415	2441765.14	1973 Mar 23 1520:00	Rocketsonde	-	-	Chaff,Datasonde	-	-	-	THU	-	-	-	50	-	-
1973-W417	2441765.19	1973 Mar 23 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1973-W418	2441765.22	1973 Mar 23 1710:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1973-W419	2441765.30	1973 Mar 23 1912:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	63	-	-
1973-W420	2441765.32	1973 Mar 23 1933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-Y150	2441765.38	1973 Mar 23 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W421	2441765.38	1973 Mar 23 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W422	2441765.40	1973 Mar 23 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W423	2441768.09	1973 Mar 26 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1973-W424	2441768.09	1973 Mar 26 1415:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	69	-	-
1973-W425	2441768.09	1973 Mar 26 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W427	2441768.29	1973 Mar 26 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W428	2441768.30	1973 Mar 26 1906:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W429	2441768.34	1973 Mar 26 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	77	-	-
1973-W430	2441768.38	1973 Mar 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W431	2441768.50	1973 Mar 27 0004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W432	2441768.70	1973 Mar 27 0444:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W433	2441768.91	1973 Mar 27 0945:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1973-W435	2441769.25	1973 Mar 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W436	2441769.30	1973 Mar 27 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W437	2441769.39	1973 Mar 27 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W438	2441770.09	1973 Mar 28 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1973-W439	2441770.10	1973 Mar 28 1425:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	67	-	-
1973-W440	2441770.11	1973 Mar 28 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	61	-	-
1973-W441	2441770.12	1973 Mar 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W443	2441770.19	1973 Mar 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1973-W444	2441770.24	1973 Mar 28 1749:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1973-W445	2441770.30	1973 Mar 28 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W446	2441770.30	1973 Mar 28 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W447	2441770.44	1973 Mar 28 2229:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W448	2441770.71	1973 Mar 29 0455:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W449	2441771.18	1973 Mar 29 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W451	2441771.33	1973 Mar 29 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1973-W452	2441771.40	1973 Mar 29 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W453	2441771.74	1973 Mar 30 0552:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W454	2441772.09	1973 Mar 30 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W456	2441772.28	1973 Mar 30 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1973-W457	2441772.31	1973 Mar 30 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W458	2441772.34	1973 Mar 30 2013:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1973-W459	2441772.42	1973 Mar 30 2200:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W460	2441772.44	1973 Mar 30 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W461	2441775.12	1973 Apr 2 1449:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	75	-	-
1973-W462	2441775.15	1973 Apr 2 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W463	2441775.20	1973 Apr 2 1653:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W464	2441775.21	1973 Apr 2 1704:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	67	-	-
1973-W465	2441775.22	1973 Apr 2 1722:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W466	2441775.23	1973 Apr 2 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1973-W467	2441775.24	1973 Apr 2 1744:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	70	-	-
1973-W468	2441775.32	1973 Apr 2 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-W469	2441775.34	1973 Apr 2 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W470	2441775.39	1973 Apr 2 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W471	2441775.69	1973 Apr 3 0434:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W472	2441776.06	1973 Apr 3 1319:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	76	-	-
1973-W474	2441776.41	1973 Apr 3 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W475	2441777.10	1973 Apr 4 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1973-Y164	2441777.14	1973 Apr 4 1520:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1973-W477	2441777.19	1973 Apr 4 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1973-W478	2441777.24	1973 Apr 4 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W479	2441777.28	1973 Apr 4 1838:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W480	2441777.31	1973 Apr 4 1919:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	59	-	-
1973-W481	2441777.34	1973 Apr 4 2012:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W482	2441777.35	1973 Apr 4 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W483	2441778.14	1973 Apr 5 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1973-W484	2441778.19	1973 Apr 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	68	-	-
1973-W485	2441779.09	1973 Apr 6 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W487	2441779.25	1973 Apr 6 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W488	2441779.27	1973 Apr 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W489	2441779.28	1973 Apr 6 1845:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W490	2441779.31	1973 Apr 6 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W491	2441779.45	1973 Apr 6 2252:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	69	-	-
1973-W492	2441782.09	1973 Apr 9 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W493	2441782.19	1973 Apr 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-W494	2441782.29	1973 Apr 9 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W495	2441782.31	1973 Apr 9 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W496	2441782.32	1973 Apr 9 1933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W497	2441782.41	1973 Apr 9 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W498	2441782.51	1973 Apr 10 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W499	2441782.69	1973 Apr 10 0434:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W501	2441783.41	1973 Apr 10 2153:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W502	2441783.82	1973 Apr 11 0734:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	61	-	-
1973-W504	2441784.12	1973 Apr 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-
1973-W505	2441784.15	1973 Apr 11 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W507	2441784.19	1973 Apr 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W508	2441784.25	1973 Apr 11 1803:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1973-W509	2441784.29	1973 Apr 11 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-Y171	2441784.29	1973 Apr 11 1858:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-Y172	2441784.30	1973 Apr 11 1909:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1973-W510	2441784.31	1973 Apr 11 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W511	2441784.32	1973 Apr 11 1933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W512	2441784.32	1973 Apr 11 1941:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	58	-	-
1973-Y173	2441784.38	1973 Apr 11 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1973-W513	2441784.39	1973 Apr 11 2126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W514	2441784.50	1973 Apr 12 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1973-W515	2441785.19	1973 Apr 12 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W516	2441785.49	1973 Apr 12 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1973-W517	2441786.09	1973 Apr 13 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W518	2441786.12	1973 Apr 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W520	2441786.24	1973 Apr 13 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W521	2441786.31	1973 Apr 13 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W522	2441786.38	1973 Apr 13 2103:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W523	2441789.01	1973 Apr 16 1214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W524	2441789.06	1973 Apr 16 1330:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1973-W525	2441789.10	1973 Apr 16 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-A20	2441789.13	1973 Apr 16 1503:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	49	-	-
1973-W526	2441789.21	1973 Apr 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W527	2441789.29	1973 Apr 16 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W528	2441789.32	1973 Apr 16 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W529	2441789.38	1973 Apr 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W530	2441789.69	1973 Apr 17 0434:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W532	2441790.40	1973 Apr 17 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W533	2441791.09	1973 Apr 18 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	71	-	-
1973-W534	2441791.09	1973 Apr 18 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W535	2441791.10	1973 Apr 18 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1973-W536	2441791.12	1973 Apr 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	68	-	-
1973-W538	2441791.16	1973 Apr 18 1556:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W539	2441791.19	1973 Apr 18 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-Y180	2441791.21	1973 Apr 18 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1973-Y181	2441791.21	1973 Apr 18 1701:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-Y182	2441791.24	1973 Apr 18 1741:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W540	2441791.25	1973 Apr 18 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	77	-	-
1973-W541	2441791.26	1973 Apr 18 1811:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W542	2441791.31	1973 Apr 18 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W543	2441791.42	1973 Apr 18 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W544	2441791.49	1973 Apr 18 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1973-W545	2441792.18	1973 Apr 19 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W546	2441792.24	1973 Apr 19 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W547	2441793.03	1973 Apr 20 1245:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	70	-	-
1973-W548	2441793.24	1973 Apr 20 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W549	2441793.32	1973 Apr 20 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W550	2441793.37	1973 Apr 20 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W551	2441793.43	1973 Apr 20 2213:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W552	2441796.09	1973 Apr 23 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	75	-	-
1973-W553	2441796.30	1973 Apr 23 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	78	-	-
1973-W554	2441796.31	1973 Apr 23 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W555	2441796.34	1973 Apr 23 2009:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W556	2441796.38	1973 Apr 23 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W557	2441796.49	1973 Apr 23 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1973-W558	2441796.69	1973 Apr 24 0440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W560	2441797.40	1973 Apr 24 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W561	2441797.89	1973 Apr 25 0922:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1973-W562	2441798.09	1973 Apr 25 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	63	-	-
1973-W563	2441798.12	1973 Apr 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W564	2441798.14	1973 Apr 25 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	77	-	-
1973-W566	2441798.15	1973 Apr 25 1543:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1973-W567	2441798.24	1973 Apr 25 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1973-Y190	2441798.27	1973 Apr 25 1833:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W568	2441798.29	1973 Apr 25 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1973-W569	2441798.30	1973 Apr 25 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1973-W570	2441798.31	1973 Apr 25 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W571	2441799.19	1973 Apr 26 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W572	2441799.55	1973 Apr 27 0114:59	Rocketsonde	-	-	Starute	-	-	-	GRLC	-	-	-	72	-	-
1973-W573	2441800.04	1973 Apr 27 1255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	68	-	-
1973-W574	2441800.09	1973 Apr 27 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	78	-	-
1973-W576	2441800.24	1973 Apr 27 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W577	2441800.25	1973 Apr 27 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1973-W578	2441800.27	1973 Apr 27 1822:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W579	2441800.33	1973 Apr 27 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W580	2441800.44	1973 Apr 27 2230:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-Y192	2441801.52	1973 Apr 29 0023:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	80	-	-
1973-W581	2441803.09	1973 Apr 30 1415:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	50	-	-
1973-A21	2441803.15	1973 Apr 30 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	48	-	-
1973-W583	2441803.21	1973 Apr 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W584	2441803.23	1973 Apr 30 1737:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1973-W585	2441803.27	1973 Apr 30 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W586	2441803.33	1973 Apr 30 1953:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W587	2441803.39	1973 Apr 30 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W588	2441805.07	1973 May 2 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1973-W589	2441805.10	1973 May 2 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W591	2441805.12	1973 May 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W592	2441805.17	1973 May 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1973-W593	2441805.21	1973 May 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W594	2441805.25	1973 May 2 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1973-W595	2441805.32	1973 May 2 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W596	2441805.38	1973 May 2 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	76	-	-
1973-W597	2441805.38	1973 May 2 2113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W598	2441805.58	1973 May 3 0152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	70	-	-
1973-W599	2441806.20	1973 May 3 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W600	2441806.25	1973 May 3 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W601	2441807.06	1973 May 4 1330:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	77	-	-
1973-W602	2441807.07	1973 May 4 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1973-W603	2441807.09	1973 May 4 1408:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W605	2441807.25	1973 May 4 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W606	2441807.27	1973 May 4 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W607	2441807.39	1973 May 4 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W608	2441807.39	1973 May 4 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W609	2441810.08	1973 May 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1973-W610	2441810.22	1973 May 7 1713:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W611	2441810.23	1973 May 7 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W612	2441810.30	1973 May 7 1913:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1973-W613	2441810.31	1973 May 7 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W614	2441810.38	1973 May 7 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1973-W615	2441810.53	1973 May 8 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1973-W616	2441811.20	1973 May 8 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-W618	2441811.30	1973 May 8 1906:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W620	2441812.12	1973 May 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W622	2441812.17	1973 May 9 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1973-W623	2441812.24	1973 May 9 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W624	2441812.31	1973 May 9 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W625	2441812.41	1973 May 9 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W626	2441812.55	1973 May 10 0104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	79	-	-
1973-W627	2441812.59	1973 May 10 0203:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W628	2441813.08	1973 May 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1973-W629	2441813.09	1973 May 10 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W630	2441813.23	1973 May 10 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W631	2441813.50	1973 May 11 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W632	2441814.12	1973 May 11 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1973-Y202	2441814.13	1973 May 11 1510:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W633	2441814.15	1973 May 11 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1973-W635	2441814.19	1973 May 11 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1973-W636	2441814.25	1973 May 11 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W637	2441814.27	1973 May 11 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-Y203	2441814.38	1973 May 11 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W638	2441814.39	1973 May 11 2115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W639	2441816.06	1973 May 13 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	79	-	-
1973-W640	2441817.06	1973 May 14 1332:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W642	2441817.21	1973 May 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W643	2441817.25	1973 May 14 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W644	2441817.27	1973 May 14 1822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W645	2441817.29	1973 May 14 1902:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1973-W646	2441817.38	1973 May 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W647	2441817.49	1973 May 14 2352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1973-W648	2441818.19	1973 May 15 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W649	2441818.27	1973 May 15 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W650	2441818.29	1973 May 15 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-W652	2441819.05	1973 May 16 1304:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W653	2441819.07	1973 May 16 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W654	2441819.09	1973 May 16 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W655	2441819.09	1973 May 16 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W656	2441819.15	1973 May 16 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-Y207	2441819.17	1973 May 16 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W657	2441819.17	1973 May 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	66	-	-
1973-W659	2441819.24	1973 May 16 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	50	-	-
1973-W660	2441819.25	1973 May 16 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W661	2441819.31	1973 May 16 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W662	2441819.33	1973 May 16 1957:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W663	2441819.58	1973 May 17 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1973-W664	2441820.13	1973 May 17 1511:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W665	2441820.38	1973 May 17 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	61	-	-
1973-W666	2441820.39	1973 May 17 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W667	2441821.08	1973 May 18 1358:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W668	2441821.08	1973 May 18 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1973-W669	2441821.18	1973 May 18 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W670	2441821.21	1973 May 18 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W671	2441821.25	1973 May 18 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W672	2441821.27	1973 May 18 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W673	2441821.47	1973 May 18 2314:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1973-Y210	2441821.53	1973 May 19 0049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W674	2441822.55	1973 May 20 0117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W675	2441824.07	1973 May 21 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1973-W676	2441824.14	1973 May 21 1522:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W677	2441824.21	1973 May 21 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W678	2441824.27	1973 May 21 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W679	2441824.31	1973 May 21 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1973-W680	2441824.38	1973 May 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1973-W681	2441825.11	1973 May 22 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W682	2441825.19	1973 May 22 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W683	2441825.25	1973 May 22 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W684	2441826.08	1973 May 23 1349:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W685	2441826.09	1973 May 23 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W686	2441826.12	1973 May 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1973-Y216	2441826.15	1973 May 23 1540:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1973-W688	2441826.23	1973 May 23 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	77	-	-
1973-W689	2441826.24	1973 May 23 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-W690	2441826.31	1973 May 23 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W691	2441826.46	1973 May 23 2307:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-Y217	2441826.62	1973 May 24 0246:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-W692	2441827.09	1973 May 24 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W693	2441827.12	1973 May 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W694	2441827.39	1973 May 24 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W695	2441828.10	1973 May 25 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1973-W697	2441828.25	1973 May 25 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1973-W698	2441828.29	1973 May 25 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W699	2441828.29	1973 May 25 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W700	2441828.39	1973 May 25 2118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W701	2441828.53	1973 May 26 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	69	-	-
1973-A23	2441832.20	1973 May 29 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	43	-	-
1973-W703	2441832.21	1973 May 29 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W704	2441832.29	1973 May 29 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W705	2441832.31	1973 May 29 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W706	2441832.34	1973 May 29 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W707	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1973-W708	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	61	-	-
1973-W709	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1973-W710	2441833.11	1973 May 30 1441:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W711	2441833.15	1973 May 30 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1973-W712	2441833.17	1973 May 30 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W713	2441833.17	1973 May 30 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y226	2441833.19	1973 May 30 1630:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W715	2441833.21	1973 May 30 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	79	-	-
1973-W716	2441833.25	1973 May 30 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1973-W717	2441833.31	1973 May 30 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1973-W718	2441833.39	1973 May 30 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	53	-	-
1973-W719	2441833.53	1973 May 31 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W720	2441834.51	1973 Jun 1 0012:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	67	-	-
1973-W721	2441835.09	1973 Jun 1 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W722	2441835.18	1973 Jun 1 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1973-W723	2441835.18	1973 Jun 1 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W724	2441835.31	1973 Jun 1 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W725	2441835.35	1973 Jun 1 2029:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W726	2441835.38	1973 Jun 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W727	2441838.01	1973 Jun 4 1210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W728	2441838.08	1973 Jun 4 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W729	2441838.12	1973 Jun 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1973-W730	2441838.23	1973 Jun 4 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W731	2441838.24	1973 Jun 4 1748:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1973-W732	2441838.25	1973 Jun 4 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W733	2441838.27	1973 Jun 4 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W734	2441838.31	1973 Jun 4 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1973-W735	2441838.38	1973 Jun 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W737	2441839.39	1973 Jun 5 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W738	2441839.50	1973 Jun 6 0006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W739	2441839.99	1973 Jun 6 1140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W741	2441840.03	1973 Jun 6 1236:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1973-W742	2441840.06	1973 Jun 6 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-Y231	2441840.07	1973 Jun 6 1344:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	87	-	-
1973-W743	2441840.08	1973 Jun 6 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W744	2441840.11	1973 Jun 6 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W745	2441840.12	1973 Jun 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W747	2441840.21	1973 Jun 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W748	2441840.25	1973 Jun 6 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W749	2441840.25	1973 Jun 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W750	2441840.27	1973 Jun 6 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	76	-	-
1973-W751	2441840.31	1973 Jun 6 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W752	2441840.38	1973 Jun 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W753	2441840.53	1973 Jun 7 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-Y235	2441841.22	1973 Jun 7 1715:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	82	-	-
1973-W754	2441841.69	1973 Jun 8 0434:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W755	2441842.08	1973 Jun 8 1400:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	77	-	-
1973-W756	2441842.09	1973 Jun 8 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W757	2441842.15	1973 Jun 8 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	76	-	-
1973-W758	2441842.18	1973 Jun 8 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W759	2441842.18	1973 Jun 8 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W760	2441842.21	1973 Jun 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W761	2441842.25	1973 Jun 8 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W762	2441842.31	1973 Jun 8 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-Y237	2441842.38	1973 Jun 8 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W763	2441842.41	1973 Jun 8 2146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W764	2441842.53	1973 Jun 9 0040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-Y238	2441842.53	1973 Jun 9 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-W765	2441842.58	1973 Jun 9 0151:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1973-W766	2441842.60	1973 Jun 9 0230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W767	2441843.31	1973 Jun 9 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W768	2441845.12	1973 Jun 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-W769	2441845.16	1973 Jun 11 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W770	2441845.18	1973 Jun 11 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W771	2441845.21	1973 Jun 11 1700:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	77	-	-
1973-W772	2441845.23	1973 Jun 11 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W773	2441845.31	1973 Jun 11 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W774	2441845.38	1973 Jun 11 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W776	2441846.25	1973 Jun 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-Y245	2441846.50	1973 Jun 13 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	83	-	-
1973-Y247	2441847.07	1973 Jun 13 1344:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1973-W777	2441847.08	1973 Jun 13 1348:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	62	-	-
1973-W778	2441847.09	1973 Jun 13 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W779	2441847.10	1973 Jun 13 1430:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	73	-	-
1973-W780	2441847.17	1973 Jun 13 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W782	2441847.25	1973 Jun 13 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1973-W783	2441847.27	1973 Jun 13 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1973-W784	2441847.29	1973 Jun 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-Y250	2441847.35	1973 Jun 13 2030:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1973-W785	2441847.42	1973 Jun 13 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W786	2441847.42	1973 Jun 13 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W787	2441847.53	1973 Jun 14 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1973-W788	2441848.09	1973 Jun 14 1408:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W789	2441848.13	1973 Jun 14 1504:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	68	-	-
1973-W790	2441848.69	1973 Jun 15 0440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W791	2441849.07	1973 Jun 15 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1973-W792	2441849.08	1973 Jun 15 1358:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W793	2441849.18	1973 Jun 15 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W794	2441849.23	1973 Jun 15 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-Y253	2441849.29	1973 Jun 15 1852:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1973-W795	2441849.32	1973 Jun 15 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	79	-	-
1973-W796	2441849.41	1973 Jun 15 2144:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W797	2441849.56	1973 Jun 16 0123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	52	-	-
1973-W798	2441852.07	1973 Jun 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W799	2441852.10	1973 Jun 18 1430:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	76	-	-
1973-W800	2441852.21	1973 Jun 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1973-W801	2441852.25	1973 Jun 18 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1973-W802	2441852.31	1973 Jun 18 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W803	2441852.32	1973 Jun 18 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W804	2441852.38	1973 Jun 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W805	2441853.04	1973 Jun 19 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W806	2441853.31	1973 Jun 19 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W807	2441853.51	1973 Jun 20 0008:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1973-A31	2441853.70	1973 Jun 20 0444:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	25	-	-
1973-W808	2441853.70	1973 Jun 20 0444:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W809	2441854.11	1973 Jun 20 1441:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W810	2441854.14	1973 Jun 20 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W811	2441854.18	1973 Jun 20 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-Y258	2441854.25	1973 Jun 20 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1973-W813	2441854.30	1973 Jun 20 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W814	2441854.35	1973 Jun 20 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W815	2441854.40	1973 Jun 20 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-Y259	2441854.56	1973 Jun 21 0126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-W816	2441855.14	1973 Jun 21 1525:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W817	2441856.12	1973 Jun 22 1447:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1973-W818	2441856.18	1973 Jun 22 1621:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W819	2441856.20	1973 Jun 22 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W820	2441856.21	1973 Jun 22 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1973-W821	2441856.21	1973 Jun 22 1707:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-Y260	2441856.31	1973 Jun 22 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	86	-	-
1973-Y261	2441856.38	1973 Jun 22 2102:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W822	2441856.40	1973 Jun 22 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W823	2441856.53	1973 Jun 23 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	69	-	-
1973-A32	2441859.12	1973 Jun 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	0	-	-
1973-W824	2441859.12	1973 Jun 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W825	2441859.17	1973 Jun 25 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W826	2441859.25	1973 Jun 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1973-W827	2441859.31	1973 Jun 25 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W828	2441859.39	1973 Jun 25 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1973-W829	2441860.33	1973 Jun 26 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W830	2441860.68	1973 Jun 27 0424:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-W831	2441861.04	1973 Jun 27 1303:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W832	2441861.10	1973 Jun 27 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1973-W833	2441861.11	1973 Jun 27 1438:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1973-W834	2441861.18	1973 Jun 27 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W835	2441861.18	1973 Jun 27 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W837	2441861.19	1973 Jun 27 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W838	2441861.30	1973 Jun 27 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W839	2441862.07	1973 Jun 28 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	66	-	-
1973-W840	2441862.31	1973 Jun 28 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1973-W841	2441863.07	1973 Jun 29 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1973-W842	2441863.19	1973 Jun 29 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W843	2441863.23	1973 Jun 29 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W844	2441863.25	1973 Jun 29 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1973-Y268	2441863.54	1973 Jun 30 0100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-W848	2441864.38	1973 Jun 30 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W849	2441866.12	1973 Jul 2 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W850	2441866.17	1973 Jul 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W851	2441866.23	1973 Jul 2 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W852	2441866.27	1973 Jul 2 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W853	2441866.40	1973 Jul 2 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-Y272	2441866.53	1973 Jul 3 0047:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W854	2441867.12	1973 Jul 3 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W855	2441867.26	1973 Jul 3 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W857	2441869.31	1973 Jul 5 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W858	2441869.48	1973 Jul 5 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W859	2441870.08	1973 Jul 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1973-W860	2441870.11	1973 Jul 6 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W861	2441870.14	1973 Jul 6 1521:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-Y279	2441870.17	1973 Jul 6 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W862	2441870.19	1973 Jul 6 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W863	2441870.21	1973 Jul 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W864	2441870.23	1973 Jul 6 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W865	2441873.08	1973 Jul 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-W866	2441873.12	1973 Jul 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1973-W867	2441873.23	1973 Jul 9 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W868	2441873.25	1973 Jul 9 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W869	2441873.31	1973 Jul 9 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W870	2441873.40	1973 Jul 9 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-Y282	2441875.08	1973 Jul 11 1349:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1973-W871	2441875.10	1973 Jul 11 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-W872	2441875.18	1973 Jul 11 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W873	2441875.19	1973 Jul 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W875	2441875.21	1973 Jul 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W876	2441875.30	1973 Jul 11 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1973-W877	2441875.32	1973 Jul 11 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-Y285	2441875.37	1973 Jul 11 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1973-W878	2441875.39	1973 Jul 11 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y286	2441875.58	1973 Jul 12 0201:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W880	2441876.26	1973 Jul 12 1814:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	67	-	-
1973-W881	2441876.31	1973 Jul 12 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1973-W882	2441876.69	1973 Jul 13 0440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W883	2441877.07	1973 Jul 13 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W884	2441877.08	1973 Jul 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1973-W885	2441877.09	1973 Jul 13 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W886	2441877.21	1973 Jul 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1973-W887	2441877.37	1973 Jul 13 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-Y287	2441877.53	1973 Jul 14 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W888	2441880.04	1973 Jul 16 1259:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1973-W889	2441880.18	1973 Jul 16 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W890	2441880.23	1973 Jul 16 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W891	2441880.25	1973 Jul 16 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1973-W892	2441880.25	1973 Jul 16 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W893	2441880.31	1973 Jul 16 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W894	2441880.40	1973 Jul 16 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1973-Y290	2441880.53	1973 Jul 17 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W901	2441881.05	1973 Jul 17 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W902	2441881.20	1973 Jul 17 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W903	2441881.24	1973 Jul 17 1745:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	56	-	-
1973-W909	2441881.69	1973 Jul 18 0440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1973-W910	2441881.73	1973 Jul 18 0531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W911	2441882.07	1973 Jul 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	66	-	-
1973-W912	2441882.10	1973 Jul 18 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W914	2441882.14	1973 Jul 18 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1973-W915	2441882.19	1973 Jul 18 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W916	2441882.24	1973 Jul 18 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W917	2441882.30	1973 Jul 18 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1973-W918	2441882.53	1973 Jul 19 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W919	2441883.31	1973 Jul 19 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1973-W920	2441884.07	1973 Jul 20 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W921	2441884.08	1973 Jul 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-Y305	2441884.17	1973 Jul 20 1601:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-A34	2441884.19	1973 Jul 20 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	48	-	-
1973-W922	2441884.23	1973 Jul 20 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W923	2441884.28	1973 Jul 20 1841:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-Y306	2441884.38	1973 Jul 20 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W924	2441884.39	1973 Jul 20 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-A36	2441886.72	1973 Jul 23 0515:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	49	-	-
1973-A37	2441887.07	1973 Jul 23 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	44	-	-
1973-W925	2441887.08	1973 Jul 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-W926	2441887.19	1973 Jul 23 1638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W927	2441887.29	1973 Jul 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W928	2441887.40	1973 Jul 23 2142:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-Y308	2441887.53	1973 Jul 24 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W929	2441889.04	1973 Jul 25 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W930	2441889.07	1973 Jul 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1973-W931	2441889.17	1973 Jul 25 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1973-W932	2441889.17	1973 Jul 25 1602:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1973-W934	2441889.19	1973 Jul 25 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1973-W935	2441889.21	1973 Jul 25 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-Y311	2441889.35	1973 Jul 25 2022:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-Y312	2441889.38	1973 Jul 25 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1973-W936	2441889.38	1973 Jul 25 2113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W937	2441890.04	1973 Jul 26 1255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W938	2441890.05	1973 Jul 26 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W939	2441890.25	1973 Jul 26 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1973-W940	2441890.31	1973 Jul 26 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W941	2441890.32	1973 Jul 26 1936:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	62	-	-
1973-W942	2441890.38	1973 Jul 26 2100:00	Rocketsonde	-	-	STS	-	-	-	WS	-	-	-	65	-	-
1973-W943	2441891.04	1973 Jul 27 1255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	74	-	-
1973-W944	2441891.08	1973 Jul 27 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1973-W945	2441891.08	1973 Jul 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1973-W946	2441891.10	1973 Jul 27 1426:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	50	-	-
1973-W947	2441891.11	1973 Jul 27 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W948	2441891.12	1973 Jul 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W10	2442050.27	1974 Jan 2 1832:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1974-W11	2442050.32	1974 Jan 2 1941:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W12	2442050.39	1974 Jan 2 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-Y05	2442050.53	1974 Jan 3 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1974-W13	2442051.15	1974 Jan 3 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W15	2442051.17	1974 Jan 3 1607:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W16	2442051.33	1974 Jan 3 1953:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1974-W17	2442052.13	1974 Jan 4 1511:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W19	2442052.25	1974 Jan 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1974-W20	2442052.38	1974 Jan 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1974-W21	2442052.38	1974 Jan 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W22	2442052.45	1974 Jan 4 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W23	2442053.43	1974 Jan 5 2217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W24	2442055.08	1974 Jan 7 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W25	2442055.08	1974 Jan 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-A02	2442055.12	1974 Jan 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	48	-	-
1974-W27	2442055.21	1974 Jan 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W28	2442055.30	1974 Jan 7 1918:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W29	2442055.33	1974 Jan 7 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W30	2442056.21	1974 Jan 8 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W31	2442056.23	1974 Jan 8 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W32	2442057.08	1974 Jan 9 1351:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-Y11	2442057.16	1974 Jan 9 1556:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W33	2442057.18	1974 Jan 9 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-Y12	2442057.19	1974 Jan 9 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1974-W34	2442057.21	1974 Jan 9 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	63	-	-
1974-W35	2442057.21	1974 Jan 9 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W37	2442057.29	1974 Jan 9 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W38	2442057.33	1974 Jan 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W39	2442057.53	1974 Jan 10 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W41	2442058.25	1974 Jan 10 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W42	2442058.27	1974 Jan 10 1822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W43	2442058.45	1974 Jan 10 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W45	2442059.06	1974 Jan 11 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W46	2442059.07	1974 Jan 11 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W47	2442059.08	1974 Jan 11 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	56	-	-
1974-W48	2442059.11	1974 Jan 11 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W50	2442059.27	1974 Jan 11 1825:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W51	2442059.28	1974 Jan 11 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W52	2442059.32	1974 Jan 11 1933:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	74	-	-
1974-W53	2442059.33	1974 Jan 11 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-W54	2442060.46	1974 Jan 12 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W55	2442062.08	1974 Jan 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W56	2442062.13	1974 Jan 14 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W57	2442062.18	1974 Jan 14 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W58	2442062.21	1974 Jan 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W59	2442062.28	1974 Jan 14 1842:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1974-W60	2442062.35	1974 Jan 14 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W61	2442062.81	1974 Jan 15 0722:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	69	-	-
1974-W63	2442063.17	1974 Jan 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W64	2442064.06	1974 Jan 16 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1974-W65	2442064.07	1974 Jan 16 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W66	2442064.09	1974 Jan 16 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	61	-	-
1974-W67	2442064.12	1974 Jan 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-Y18	2442064.19	1974 Jan 16 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W69	2442064.25	1974 Jan 16 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1974-W70	2442064.29	1974 Jan 16 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W71	2442064.31	1974 Jan 16 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W72	2442064.34	1974 Jan 16 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-Y21	2442064.38	1974 Jan 16 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W74	2442065.25	1974 Jan 17 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1974-W75	2442065.29	1974 Jan 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1974-W76	2442065.32	1974 Jan 17 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W77	2442066.07	1974 Jan 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W78	2442066.09	1974 Jan 18 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1974-W79	2442066.13	1974 Jan 18 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1974-W80	2442066.23	1974 Jan 18 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W81	2442066.31	1974 Jan 18 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W83	2442068.91	1974 Jan 21 0946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W84	2442069.08	1974 Jan 21 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W85	2442069.08	1974 Jan 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W86	2442069.11	1974 Jan 21 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W87	2442069.14	1974 Jan 21 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W88	2442069.17	1974 Jan 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1974-W89	2442069.20	1974 Jan 21 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W90	2442069.23	1974 Jan 21 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W91	2442069.33	1974 Jan 21 1952:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1974-W93	2442070.10	1974 Jan 22 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W94	2442070.25	1974 Jan 22 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W95	2442070.32	1974 Jan 22 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W96	2442070.33	1974 Jan 22 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W98	2442071.06	1974 Jan 23 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1974-W99	2442071.07	1974 Jan 23 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W100	2442071.09	1974 Jan 23 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1974-W101	2442071.09	1974 Jan 23 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-Y29	2442071.19	1974 Jan 23 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W102	2442071.21	1974 Jan 23 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W103	2442071.22	1974 Jan 23 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	63	-	-
1974-W104	2442071.27	1974 Jan 23 1833:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	77	-	-
1974-Y30	2442071.28	1974 Jan 23 1845:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W105	2442071.29	1974 Jan 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W106	2442071.30	1974 Jan 23 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W107	2442071.39	1974 Jan 23 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-W108	2442071.54	1974 Jan 24 0101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W109	2442071.88	1974 Jan 24 0900:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W111	2442072.34	1974 Jan 24 2003:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W112	2442073.08	1974 Jan 25 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1974-W113	2442073.09	1974 Jan 25 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W114	2442073.17	1974 Jan 25 1606:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W116	2442073.25	1974 Jan 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W117	2442073.32	1974 Jan 25 1941:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1974-W118	2442073.33	1974 Jan 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1974-W119	2442073.92	1974 Jan 26 1000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1974-W120	2442076.07	1974 Jan 28 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	50	-	-
1974-W121	2442076.07	1974 Jan 28 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W123	2442076.19	1974 Jan 28 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W124	2442076.23	1974 Jan 28 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W125	2442076.30	1974 Jan 28 1917:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W126	2442076.33	1974 Jan 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W127	2442076.88	1974 Jan 29 0904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W128	2442077.03	1974 Jan 29 1249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	69	-	-
1974-W130	2442077.21	1974 Jan 29 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W131	2442077.29	1974 Jan 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W132	2442077.30	1974 Jan 29 1917:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1974-W133	2442078.05	1974 Jan 30 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W134	2442078.08	1974 Jan 30 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W135	2442078.10	1974 Jan 30 1422:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W137	2442078.16	1974 Jan 30 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W138	2442078.16	1974 Jan 30 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W139	2442078.19	1974 Jan 30 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	73	-	-
1974-W140	2442078.25	1974 Jan 30 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1974-W141	2442078.29	1974 Jan 30 1859:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	75	-	-
1974-W142	2442078.33	1974 Jan 30 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-Y39	2442078.36	1974 Jan 30 2044:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W143	2442078.38	1974 Jan 30 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W148	2442078.51	1974 Jan 31 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1974-W151	2442079.22	1974 Jan 31 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W152	2442079.29	1974 Jan 31 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W153	2442080.10	1974 Feb 1 1423:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1974-W154	2442080.10	1974 Feb 1 1427:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W155	2442080.12	1974 Feb 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1974-W156	2442080.17	1974 Feb 1 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W157	2442080.21	1974 Feb 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W158	2442080.33	1974 Feb 1 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	52	-	-
1974-W160	2442083.10	1974 Feb 4 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W161	2442083.14	1974 Feb 4 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W162	2442083.17	1974 Feb 4 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W164	2442083.33	1974 Feb 4 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W165	2442083.38	1974 Feb 4 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W166	2442084.23	1974 Feb 5 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W168	2442084.30	1974 Feb 5 1918:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W169	2442085.03	1974 Feb 6 1241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	65	-	-
1974-W170	2442085.06	1974 Feb 6 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W171	2442085.09	1974 Feb 6 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W172	2442085.12	1974 Feb 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W174	2442085.29	1974 Feb 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W175	2442086.07	1974 Feb 7 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W177	2442086.17	1974 Feb 7 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W178	2442086.28	1974 Feb 7 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1974-Y48	2442086.29	1974 Feb 7 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W179	2442086.31	1974 Feb 7 1929:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W180	2442087.07	1974 Feb 8 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-A05	2442087.08	1974 Feb 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	46	-	-
1974-W182	2442087.29	1974 Feb 8 1856:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	68	-	-
1974-W185	2442090.18	1974 Feb 11 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W186	2442090.25	1974 Feb 11 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W187	2442090.55	1974 Feb 12 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-A06	2442090.64	1974 Feb 12 0324:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	47	-	-
1974-W188	2442091.08	1974 Feb 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W189	2442091.15	1974 Feb 12 1530:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	64	-	-
1974-W190	2442091.16	1974 Feb 12 1554:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W191	2442091.21	1974 Feb 12 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W193	2442091.32	1974 Feb 12 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W194	2442091.51	1974 Feb 13 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W195	2442091.81	1974 Feb 13 0730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-W196	2442092.07	1974 Feb 13 1340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W197	2442092.08	1974 Feb 13 1352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W198	2442092.09	1974 Feb 13 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1974-W199	2442092.12	1974 Feb 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W200	2442092.21	1974 Feb 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1974-W202	2442092.74	1974 Feb 14 0540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W203	2442093.17	1974 Feb 14 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W204	2442093.25	1974 Feb 14 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W206	2442094.07	1974 Feb 15 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W207	2442094.12	1974 Feb 15 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W208	2442094.13	1974 Feb 15 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W209	2442094.17	1974 Feb 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W210	2442094.19	1974 Feb 15 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-Y65	2442094.27	1974 Feb 15 1833:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	84	-	-
1974-W211	2442094.30	1974 Feb 15 1911:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W212	2442094.30	1974 Feb 15 1917:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W213	2442094.71	1974 Feb 16 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W214	2442094.89	1974 Feb 16 0914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W215	2442094.95	1974 Feb 16 1044:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W217	2442096.73	1974 Feb 18 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W219	2442097.78	1974 Feb 19 0645:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W220	2442097.85	1974 Feb 19 0827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W221	2442098.10	1974 Feb 19 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W222	2442098.12	1974 Feb 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W223	2442098.13	1974 Feb 19 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W224	2442098.27	1974 Feb 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W225	2442098.77	1974 Feb 20 0626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W226	2442098.80	1974 Feb 20 0704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W227	2442099.07	1974 Feb 20 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W228	2442099.07	1974 Feb 20 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	51	-	-
1974-W229	2442099.10	1974 Feb 20 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W230	2442099.25	1974 Feb 20 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W231	2442099.28	1974 Feb 20 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W233	2442099.62	1974 Feb 21 0247:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W235	2442100.25	1974 Feb 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W236	2442100.30	1974 Feb 21 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W237	2442100.33	1974 Feb 21 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W238	2442100.43	1974 Feb 21 2218:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-A10	2442101.04	1974 Feb 22 1251:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	32	-	-
1974-W239	2442101.08	1974 Feb 22 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W240	2442101.15	1974 Feb 22 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W242	2442103.75	1974 Feb 25 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W243	2442104.07	1974 Feb 25 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W244	2442104.07	1974 Feb 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W245	2442104.20	1974 Feb 25 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W246	2442104.25	1974 Feb 25 1800:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	63	-	-
1974-W247	2442104.25	1974 Feb 25 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W248	2442104.29	1974 Feb 25 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-W250	2442104.89	1974 Feb 26 0920:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-
1974-W251	2442105.21	1974 Feb 26 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W252	2442105.26	1974 Feb 26 1813:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W253	2442105.28	1974 Feb 26 1841:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1974-W254	2442105.29	1974 Feb 26 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W256	2442105.66	1974 Feb 27 0356:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W257	2442105.71	1974 Feb 27 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W258	2442106.08	1974 Feb 27 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W259	2442106.08	1974 Feb 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1974-W260	2442106.13	1974 Feb 27 1507:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W261	2442106.17	1974 Feb 27 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1974-W262	2442106.27	1974 Feb 27 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1974-W263	2442106.33	1974 Feb 27 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W264	2442106.40	1974 Feb 27 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-Y83	2442106.42	1974 Feb 27 2210:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	84	-	-
1974-Y84	2442106.55	1974 Feb 28 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W271	2442106.78	1974 Feb 28 0645:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W272	2442106.90	1974 Feb 28 0930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1974-W273	2442107.32	1974 Feb 28 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1974-W275	2442108.02	1974 Mar 1 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W276	2442108.08	1974 Mar 1 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W277	2442108.09	1974 Mar 1 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W278	2442108.13	1974 Mar 1 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W279	2442108.38	1974 Mar 1 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1974-W280	2442108.38	1974 Mar 1 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-Y87	2442108.72	1974 Mar 2 0515:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W282	2442108.98	1974 Mar 2 1134:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1974-W283	2442111.07	1974 Mar 4 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1974-W284	2442111.09	1974 Mar 4 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1974-W285	2442111.12	1974 Mar 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W286	2442111.15	1974 Mar 4 1534:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	56	-	-
1974-W287	2442111.21	1974 Mar 4 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W288	2442111.28	1974 Mar 4 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-Y94	2442112.09	1974 Mar 5 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W290	2442112.20	1974 Mar 5 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W292	2442113.03	1974 Mar 6 1238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W293	2442113.04	1974 Mar 6 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	56	-	-
1974-W294	2442113.09	1974 Mar 6 1406:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1974-W295	2442113.10	1974 Mar 6 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	74	-	-
1974-W296	2442113.15	1974 Mar 6 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1974-W297	2442113.17	1974 Mar 6 1608:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1974-Y100	2442113.19	1974 Mar 6 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W299	2442113.27	1974 Mar 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W300	2442113.33	1974 Mar 6 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W301	2442114.08	1974 Mar 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W303	2442114.35	1974 Mar 7 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W304	2442114.89	1974 Mar 8 0920:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1974-W305	2442115.07	1974 Mar 8 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	77	-	-
1974-W306	2442115.12	1974 Mar 8 1447:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1974-W307	2442115.19	1974 Mar 8 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1974-W308	2442115.21	1974 Mar 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W309	2442115.22	1974 Mar 8 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W311	2442115.36	1974 Mar 8 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W312	2442115.42	1974 Mar 8 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W313	2442115.58	1974 Mar 9 0201:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W314	2442118.02	1974 Mar 11 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W315	2442118.10	1974 Mar 11 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W316	2442118.16	1974 Mar 11 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W318	2442118.22	1974 Mar 11 1715:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W319	2442118.25	1974 Mar 11 1756:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1974-W320	2442119.07	1974 Mar 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W322	2442119.33	1974 Mar 12 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W323	2442119.88	1974 Mar 13 0910:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1974-W324	2442120.06	1974 Mar 13 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W325	2442120.07	1974 Mar 13 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1974-W326	2442120.15	1974 Mar 13 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W328	2442120.20	1974 Mar 13 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-Y107	2442120.21	1974 Mar 13 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W329	2442120.21	1974 Mar 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W330	2442120.33	1974 Mar 13 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W331	2442120.38	1974 Mar 13 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-Y108	2442120.56	1974 Mar 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1974-W332	2442120.67	1974 Mar 14 0404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1974-W333	2442121.10	1974 Mar 14 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W334	2442121.16	1974 Mar 14 1555:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W336	2442121.34	1974 Mar 14 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-Y109	2442121.37	1974 Mar 14 2059:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W337	2442121.39	1974 Mar 14 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W338	2442121.80	1974 Mar 15 0709:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W339	2442122.04	1974 Mar 15 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W340	2442122.06	1974 Mar 15 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1974-W341	2442122.11	1974 Mar 15 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W342	2442122.12	1974 Mar 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W343	2442122.14	1974 Mar 15 1527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1974-W344	2442122.15	1974 Mar 15 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1974-W345	2442122.36	1974 Mar 15 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1974-W346	2442122.58	1974 Mar 16 0149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W347	2442125.21	1974 Mar 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1974-W348	2442125.24	1974 Mar 18 1744:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W349	2442125.38	1974 Mar 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W350	2442125.41	1974 Mar 18 2147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W352	2442125.52	1974 Mar 19 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W353	2442126.12	1974 Mar 19 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W369	2442126.32	1974 Mar 19 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W404	2442126.84	1974 Mar 20 0803:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W421	2442127.07	1974 Mar 20 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-Y116	2442127.19	1974 Mar 20 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W427	2442127.21	1974 Mar 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W428	2442127.35	1974 Mar 20 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1974-Y118	2442127.39	1974 Mar 20 2118:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W429	2442127.57	1974 Mar 21 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-A13	2442128.02	1974 Mar 21 1234:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	40	-	-
1974-W430	2442128.21	1974 Mar 21 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W431	2442128.25	1974 Mar 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W432	2442128.67	1974 Mar 22 0359:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W433	2442129.08	1974 Mar 22 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1974-W434	2442129.08	1974 Mar 22 1358:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1974-W436	2442129.21	1974 Mar 22 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1974-W437	2442129.29	1974 Mar 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1974-W438	2442129.33	1974 Mar 22 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W439	2442129.70	1974 Mar 23 0446:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W440	2442129.91	1974 Mar 23 0945:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	68	-	-
1974-W441	2442130.58	1974 Mar 24 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W442	2442132.06	1974 Mar 25 1327:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W443	2442132.06	1974 Mar 25 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1974-W444	2442132.07	1974 Mar 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W446	2442132.33	1974 Mar 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W447	2442132.36	1974 Mar 25 2038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W448	2442132.38	1974 Mar 25 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W449	2442133.11	1974 Mar 26 1443:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1974-W450	2442134.07	1974 Mar 27 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	66	-	-
1974-W451	2442134.08	1974 Mar 27 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W452	2442134.09	1974 Mar 27 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W453	2442134.09	1974 Mar 27 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	59	-	-
1974-W454	2442134.16	1974 Mar 27 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-W455	2442134.42	1974 Mar 27 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	71	-	-
1974-W457	2442134.50	1974 Mar 28 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W458	2442135.09	1974 Mar 28 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W459	2442135.21	1974 Mar 28 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1974-W460	2442135.21	1974 Mar 28 1707:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W462	2442136.09	1974 Mar 29 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W463	2442136.12	1974 Mar 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W464	2442136.17	1974 Mar 29 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W465	2442136.23	1974 Mar 29 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-Y136	2442136.40	1974 Mar 29 2130:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W466	2442136.41	1974 Mar 29 2144:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W468	2442139.08	1974 Apr 1 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W469	2442139.08	1974 Apr 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	78	-	-
1974-W470	2442139.09	1974 Apr 1 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W471	2442139.23	1974 Apr 1 1732:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1974-W472	2442139.25	1974 Apr 1 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W473	2442139.38	1974 Apr 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W475	2442140.26	1974 Apr 2 1815:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1974-W476	2442141.09	1974 Apr 3 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W477	2442141.12	1974 Apr 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-Y145	2442141.21	1974 Apr 3 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W478	2442141.21	1974 Apr 3 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1974-W479	2442141.33	1974 Apr 3 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W480	2442141.35	1974 Apr 3 2031:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	66	-	-
1974-W481	2442141.40	1974 Apr 3 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W482	2442141.42	1974 Apr 3 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W483	2442142.07	1974 Apr 4 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W484	2442142.28	1974 Apr 4 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W485	2442142.36	1974 Apr 4 2043:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1974-W486	2442142.42	1974 Apr 4 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1974-W487	2442143.07	1974 Apr 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1974-W488	2442143.19	1974 Apr 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1974-W489	2442143.21	1974 Apr 5 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W490	2442143.29	1974 Apr 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W491	2442143.33	1974 Apr 5 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W492	2442143.54	1974 Apr 6 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1974-A15	2442146.02	1974 Apr 8 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	40	-	-
1974-W494	2442146.11	1974 Apr 8 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W495	2442146.25	1974 Apr 8 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1974-W497	2442146.77	1974 Apr 9 0630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1974-W498	2442147.07	1974 Apr 9 1340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W499	2442147.36	1974 Apr 9 2042:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W500	2442148.04	1974 Apr 10 1255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W501	2442148.04	1974 Apr 10 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W502	2442148.12	1974 Apr 10 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W503	2442148.12	1974 Apr 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W505	2442148.28	1974 Apr 10 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W506	2442148.75	1974 Apr 11 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W507	2442149.11	1974 Apr 11 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W508	2442149.12	1974 Apr 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W509	2442150.21	1974 Apr 12 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-Y158	2442150.23	1974 Apr 12 1729:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W510	2442150.25	1974 Apr 12 1753:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1974-W511	2442150.25	1974 Apr 12 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-W512	2442150.35	1974 Apr 12 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W513	2442150.54	1974 Apr 13 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W514	2442150.58	1974 Apr 13 0155:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1974-W515	2442152.90	1974 Apr 15 0940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W516	2442153.09	1974 Apr 15 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W517	2442153.12	1974 Apr 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W518	2442153.19	1974 Apr 15 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W519	2442153.21	1974 Apr 15 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W520	2442153.27	1974 Apr 15 1822:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1974-W521	2442153.37	1974 Apr 15 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W522	2442153.67	1974 Apr 16 0402:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W523	2442154.09	1974 Apr 16 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W524	2442154.12	1974 Apr 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1974-W525	2442154.16	1974 Apr 16 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W526	2442154.32	1974 Apr 16 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W527	2442154.78	1974 Apr 17 0649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W528	2442155.08	1974 Apr 17 1352:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1974-W529	2442155.12	1974 Apr 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W530	2442155.13	1974 Apr 17 1512:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W531	2442155.23	1974 Apr 17 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-Y165	2442155.29	1974 Apr 17 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	86	-	-
1974-W532	2442155.33	1974 Apr 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W533	2442155.35	1974 Apr 17 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W534	2442155.40	1974 Apr 17 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1974-W536	2442156.03	1974 Apr 18 1236:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	71	-	-
1974-W537	2442156.35	1974 Apr 18 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W538	2442157.04	1974 Apr 19 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W539	2442157.08	1974 Apr 19 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W540	2442157.09	1974 Apr 19 1407:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1974-W541	2442157.19	1974 Apr 19 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1974-W542	2442157.21	1974 Apr 19 1700:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	62	-	-
1974-W543	2442157.27	1974 Apr 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W544	2442157.27	1974 Apr 19 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W546	2442160.12	1974 Apr 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W547	2442160.12	1974 Apr 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1974-W548	2442160.15	1974 Apr 22 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1974-Y169	2442160.19	1974 Apr 22 1630:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	82	-	-
1974-W549	2442160.19	1974 Apr 22 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1974-W550	2442160.19	1974 Apr 22 1640:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1974-Y170	2442160.20	1974 Apr 22 1649:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	92	-	-
1974-W551	2442160.23	1974 Apr 22 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W552	2442160.25	1974 Apr 22 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-Y171	2442160.29	1974 Apr 22 1901:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	97	-	-
1974-Y172	2442160.33	1974 Apr 22 1949:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	92	-	-
1974-W553	2442160.39	1974 Apr 22 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1974-W556	2442160.87	1974 Apr 23 0855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W557	2442162.07	1974 Apr 24 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W558	2442162.09	1974 Apr 24 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1974-Y178	2442162.19	1974 Apr 24 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W560	2442162.23	1974 Apr 24 1736:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1974-W561	2442162.24	1974 Apr 24 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W562	2442162.28	1974 Apr 24 1843:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W563	2442162.35	1974 Apr 24 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W564	2442162.38	1974 Apr 24 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W565	2442162.77	1974 Apr 25 0630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W566	2442162.89	1974 Apr 25 0920:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1974-W567	2442163.21	1974 Apr 25 1707:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W568	2442163.25	1974 Apr 25 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W569	2442163.68	1974 Apr 26 0420:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W570	2442164.07	1974 Apr 26 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W571	2442164.09	1974 Apr 26 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1974-W572	2442164.10	1974 Apr 26 1423:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W573	2442164.12	1974 Apr 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W575	2442164.17	1974 Apr 26 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W576	2442164.20	1974 Apr 26 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W577	2442164.32	1974 Apr 26 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W578	2442165.25	1974 Apr 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W579	2442166.00	1974 Apr 28 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W580	2442167.07	1974 Apr 29 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1974-W581	2442167.08	1974 Apr 29 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W583	2442167.16	1974 Apr 29 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W584	2442167.25	1974 Apr 29 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W585	2442167.25	1974 Apr 29 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-A19	2442167.35	1974 Apr 29 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	49	-	-
1974-W586	2442167.38	1974 Apr 29 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W591	2442167.55	1974 Apr 30 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W592	2442168.31	1974 Apr 30 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W593	2442169.00	1974 May 1 1207:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W594	2442169.08	1974 May 1 1352:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W595	2442169.10	1974 May 1 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1974-W596	2442169.11	1974 May 1 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1974-W597	2442169.13	1974 May 1 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1974-W598	2442169.14	1974 May 1 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1974-W600	2442169.19	1974 May 1 1638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-A20	2442169.24	1974 May 1 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	43	-	-
1974-W601	2442169.32	1974 May 1 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W602	2442169.38	1974 May 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W603	2442170.19	1974 May 2 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	SHER	-	-	-	57	-	-
1974-W604	2442170.25	1974 May 2 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W605	2442171.00	1974 May 3 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W607	2442171.16	1974 May 3 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	68	-	-
1974-W608	2442171.21	1974 May 3 1706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W609	2442171.25	1974 May 3 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W610	2442171.25	1974 May 3 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W611	2442171.32	1974 May 3 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W612	2442171.77	1974 May 4 0629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W613	2442172.25	1974 May 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W614	2442172.86	1974 May 5 0845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W615	2442172.87	1974 May 5 0857:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W616	2442172.88	1974 May 5 0900:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W617	2442172.92	1974 May 5 0959:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1974-W618	2442173.00	1974 May 5 1157:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W619	2442173.00	1974 May 5 1157:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1974-W620	2442173.00	1974 May 5 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W621	2442173.04	1974 May 5 1259:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1974-W622	2442173.12	1974 May 5 1456:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W623	2442173.13	1974 May 5 1509:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W624	2442173.17	1974 May 5 1559:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1974-W625	2442173.21	1974 May 5 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1974-W626	2442173.22	1974 May 5 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W627	2442173.25	1974 May 5 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W628	2442173.28	1974 May 5 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W629	2442173.30	1974 May 5 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W630	2442173.33	1974 May 5 2000:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	52	-	-
1974-W632	2442174.12	1974 May 6 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W633	2442174.28	1974 May 6 1846:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	58	-	-
1974-W634	2442174.33	1974 May 6 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W635	2442175.18	1974 May 7 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1974-W637	2442175.20	1974 May 7 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W638	2442175.41	1974 May 7 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W639	2442176.12	1974 May 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W640	2442176.13	1974 May 8 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1974-W641	2442176.13	1974 May 8 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W642	2442176.20	1974 May 8 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1974-W643	2442176.31	1974 May 8 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W644	2442176.55	1974 May 9 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W646	2442177.19	1974 May 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W647	2442177.19	1974 May 9 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W648	2442177.73	1974 May 10 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-A21	2442178.17	1974 May 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	49	-	-
1974-W649	2442178.17	1974 May 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1974-W650	2442178.24	1974 May 10 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1974-W651	2442178.29	1974 May 10 1852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1974-W652	2442178.31	1974 May 10 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W653	2442178.33	1974 May 10 1957:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1974-Y192	2442178.38	1974 May 10 2111:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	82	-	-
1974-W654	2442178.39	1974 May 10 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W655	2442181.17	1974 May 13 1602:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W656	2442181.17	1974 May 13 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1974-W657	2442181.21	1974 May 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W658	2442181.24	1974 May 13 1749:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	64	-	-
1974-W659	2442181.29	1974 May 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W660	2442182.18	1974 May 14 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W662	2442183.04	1974 May 15 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W663	2442183.09	1974 May 15 1407:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1974-W665	2442183.12	1974 May 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W667	2442183.15	1974 May 15 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1974-Y196	2442183.16	1974 May 15 1548:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W1665	2442183.17	1974 May 15 1610:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	71	-	-
1974-W669	2442183.27	1974 May 15 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W670	2442183.40	1974 May 15 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W671	2442183.55	1974 May 16 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W672	2442184.24	1974 May 16 1744:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W673	2442184.29	1974 May 16 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W674	2442185.08	1974 May 17 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W675	2442185.08	1974 May 17 1358:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	64	-	-
1974-W677	2442185.24	1974 May 17 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W678	2442185.25	1974 May 17 1807:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1974-W679	2442185.32	1974 May 17 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W680	2442185.81	1974 May 18 0730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1974-W681	2442188.17	1974 May 20 1559:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	75	-	-
1974-W682	2442188.25	1974 May 20 1756:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	55	-	-
1974-W683	2442188.25	1974 May 20 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W684	2442188.33	1974 May 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1974-W685	2442189.18	1974 May 21 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W686	2442189.21	1974 May 21 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1974-W687	2442189.25	1974 May 21 1800:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	70	-	-
1974-W688	2442189.41	1974 May 21 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1974-W690	2442190.14	1974 May 22 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W691	2442190.16	1974 May 22 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1974-Y204	2442190.17	1974 May 22 1604:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W692	2442190.19	1974 May 22 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W693	2442190.26	1974 May 22 1814:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1974-W694	2442190.31	1974 May 22 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1974-W695	2442190.31	1974 May 22 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W696	2442190.58	1974 May 23 0155:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W697	2442190.93	1974 May 23 1014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W698	2442191.19	1974 May 23 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W699	2442191.33	1974 May 23 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W700	2442191.82	1974 May 24 0741:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-A22	2442192.09	1974 May 24 1409:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	46	-	-
1974-W702	2442192.24	1974 May 24 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W703	2442192.39	1974 May 24 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W705	2442195.15	1974 May 27 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1974-W706	2442196.19	1974 May 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W707	2442196.23	1974 May 28 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1974-W708	2442196.33	1974 May 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-Y207	2442196.38	1974 May 28 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W709	2442196.39	1974 May 28 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W710	2442196.50	1974 May 29 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W711	2442197.11	1974 May 29 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1974-W713	2442197.14	1974 May 29 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W714	2442197.24	1974 May 29 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1974-W715	2442197.29	1974 May 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W716	2442197.55	1974 May 30 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W717	2442197.93	1974 May 30 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W718	2442198.15	1974 May 30 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	51	-	-
1974-W719	2442198.19	1974 May 30 1630:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1974-W720	2442198.33	1974 May 30 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W725	2442198.82	1974 May 31 0741:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W726	2442199.12	1974 May 31 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W727	2442199.13	1974 May 31 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1974-W728	2442199.15	1974 May 31 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1974-W730	2442199.25	1974 May 31 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W731	2442199.34	1974 May 31 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W732	2442199.39	1974 May 31 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W733	2442202.08	1974 Jun 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	70	-	-
1974-W734	2442202.13	1974 Jun 3 1511:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	59	-	-
1974-W735	2442202.14	1974 Jun 3 1527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W737	2442202.17	1974 Jun 3 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W738	2442202.18	1974 Jun 3 1614:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1974-A26	2442202.31	1974 Jun 3 1932:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	49	-	-
1974-W739	2442203.19	1974 Jun 4 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W740	2442203.25	1974 Jun 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W741	2442203.83	1974 Jun 5 0755:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W742	2442204.07	1974 Jun 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1974-W743	2442204.08	1974 Jun 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	70	-	-
1974-W744	2442204.12	1974 Jun 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1974-W746	2442204.17	1974 Jun 5 1609:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	50	-	-
1974-W747	2442204.24	1974 Jun 5 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W748	2442204.28	1974 Jun 5 1840:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	57	-	-
1974-W749	2442204.33	1974 Jun 5 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W750	2442204.39	1974 Jun 5 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W752	2442204.60	1974 Jun 6 0230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1974-W753	2442205.08	1974 Jun 6 1355:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1974-W754	2442205.09	1974 Jun 6 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W755	2442205.13	1974 Jun 6 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	55	-	-
1974-W756	2442205.25	1974 Jun 6 1800:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	62	-	-
1974-W757	2442205.33	1974 Jun 6 2000:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W758	2442206.02	1974 Jun 7 1224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-Y214	2442206.07	1974 Jun 7 1344:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W759	2442206.12	1974 Jun 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W760	2442206.17	1974 Jun 7 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W762	2442206.25	1974 Jun 7 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1974-W763	2442206.30	1974 Jun 7 1907:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W764	2442206.33	1974 Jun 7 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W765	2442206.38	1974 Jun 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W766	2442207.07	1974 Jun 8 1344:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1974-W767	2442209.04	1974 Jun 10 1255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	67	-	-
1974-W768	2442209.07	1974 Jun 10 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W769	2442209.08	1974 Jun 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W770	2442209.18	1974 Jun 10 1619:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	60	-	-
1974-W771	2442209.19	1974 Jun 10 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1974-W772	2442209.21	1974 Jun 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W773	2442209.24	1974 Jun 10 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W774	2442209.31	1974 Jun 10 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W775	2442209.38	1974 Jun 10 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W776	2442209.96	1974 Jun 11 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W777	2442210.19	1974 Jun 11 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1974-W778	2442211.01	1974 Jun 12 1210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1974-W779	2442211.07	1974 Jun 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	64	-	-
1974-W780	2442211.07	1974 Jun 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W781	2442211.12	1974 Jun 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-Y218	2442211.15	1974 Jun 12 1533:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-Y219	2442211.19	1974 Jun 12 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1974-W784	2442211.24	1974 Jun 12 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W785	2442211.34	1974 Jun 12 2008:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-Y220	2442211.39	1974 Jun 12 2115:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W786	2442211.40	1974 Jun 12 2131:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1974-W787	2442211.65	1974 Jun 13 0330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W788	2442212.13	1974 Jun 13 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W789	2442212.21	1974 Jun 13 1700:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	62	-	-
1974-W790	2442213.02	1974 Jun 14 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W791	2442213.12	1974 Jun 14 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W792	2442213.12	1974 Jun 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W793	2442213.17	1974 Jun 14 1604:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	51	-	-
1974-W794	2442213.18	1974 Jun 14 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1974-W795	2442213.33	1974 Jun 14 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W796	2442216.19	1974 Jun 17 1640:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1974-W797	2442216.23	1974 Jun 17 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W798	2442216.31	1974 Jun 17 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W799	2442216.38	1974 Jun 17 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1974-W800	2442217.11	1974 Jun 18 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W801	2442217.19	1974 Jun 18 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W802	2442217.24	1974 Jun 18 1745:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	50	-	-
1974-W804	2442218.12	1974 Jun 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W805	2442218.17	1974 Jun 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W806	2442218.17	1974 Jun 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	69	-	-
1974-W808	2442218.24	1974 Jun 19 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1974-W809	2442218.24	1974 Jun 19 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W810	2442218.25	1974 Jun 19 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1974-W811	2442218.36	1974 Jun 19 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1974-W812	2442218.41	1974 Jun 19 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W813	2442218.55	1974 Jun 20 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1974-W814	2442219.34	1974 Jun 20 2014:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W815	2442220.14	1974 Jun 21 1515:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	73	-	-
1974-W816	2442220.14	1974 Jun 21 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W817	2442220.17	1974 Jun 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W818	2442220.33	1974 Jun 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W819	2442220.39	1974 Jun 21 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1974-W820	2442220.39	1974 Jun 21 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W821	2442221.51	1974 Jun 23 0015:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	68	-	-
1974-W822	2442223.23	1974 Jun 24 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W823	2442223.34	1974 Jun 24 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1974-W824	2442223.38	1974 Jun 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W825	2442224.20	1974 Jun 25 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	54	-	-
1974-W826	2442225.12	1974 Jun 26 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W827	2442225.14	1974 Jun 26 1515:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1974-W829	2442225.18	1974 Jun 26 1624:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	77	-	-
1974-W830	2442225.25	1974 Jun 26 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W831	2442225.25	1974 Jun 26 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1974-W832	2442225.35	1974 Jun 26 2029:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-W833	2442225.39	1974 Jun 26 2115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W834	2442225.55	1974 Jun 27 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W835	2442226.18	1974 Jun 27 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W836	2442226.93	1974 Jun 28 1017:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W837	2442227.16	1974 Jun 28 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	52	-	-
1974-W838	2442227.18	1974 Jun 28 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W839	2442227.26	1974 Jun 28 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W840	2442227.27	1974 Jun 28 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W841	2442227.33	1974 Jun 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1974-W877	2442230.07	1974 Jul 1 1345:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1974-W878	2442230.14	1974 Jul 1 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1974-W879	2442230.22	1974 Jul 1 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W880	2442230.29	1974 Jul 1 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W881	2442230.33	1974 Jul 1 2002:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W882	2442230.38	1974 Jul 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W883	2442231.07	1974 Jul 2 1346:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W884	2442231.10	1974 Jul 2 1422:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W885	2442231.88	1974 Jul 3 0913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W886	2442232.07	1974 Jul 3 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W887	2442232.07	1974 Jul 3 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W888	2442232.12	1974 Jul 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1974-W889	2442232.21	1974 Jul 3 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1974-W890	2442232.21	1974 Jul 3 1702:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W891	2442232.36	1974 Jul 3 2034:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	55	-	-
1974-Y231	2442232.37	1974 Jul 3 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W892	2442232.39	1974 Jul 3 2118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W893	2442233.90	1974 Jul 5 0938:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W894	2442234.07	1974 Jul 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W895	2442234.08	1974 Jul 5 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W896	2442234.12	1974 Jul 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1974-W897	2442236.89	1974 Jul 8 0918:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W898	2442237.23	1974 Jul 8 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1974-W899	2442237.28	1974 Jul 8 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W900	2442237.33	1974 Jul 8 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	56	-	-
1974-W901	2442237.38	1974 Jul 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W902	2442238.09	1974 Jul 9 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W903	2442238.09	1974 Jul 9 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W904	2442238.17	1974 Jul 9 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W905	2442239.06	1974 Jul 10 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W906	2442239.08	1974 Jul 10 1348:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W907	2442239.11	1974 Jul 10 1443:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1974-W908	2442239.12	1974 Jul 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-Y234	2442239.19	1974 Jul 10 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W909	2442239.22	1974 Jul 10 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-A30	2442239.24	1974 Jul 10 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	44	-	-
1974-W910	2442239.33	1974 Jul 10 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-Y235	2442239.36	1974 Jul 10 2045:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W911	2442239.38	1974 Jul 10 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1974-Y236	2442239.46	1974 Jul 10 2303:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W912	2442239.50	1974 Jul 10 2356:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W913	2442240.03	1974 Jul 11 1241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	68	-	-
1974-W914	2442240.11	1974 Jul 11 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W915	2442240.34	1974 Jul 11 2010:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W916	2442241.06	1974 Jul 12 1329:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W917	2442241.08	1974 Jul 12 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W918	2442241.08	1974 Jul 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	54	-	-
1974-W919	2442241.11	1974 Jul 12 1437:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W920	2442241.14	1974 Jul 12 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1974-W921	2442241.26	1974 Jul 12 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W922	2442241.32	1974 Jul 12 1946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W923	2442244.13	1974 Jul 15 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W924	2442244.19	1974 Jul 15 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W925	2442244.22	1974 Jul 15 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W926	2442244.23	1974 Jul 15 1729:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	67	-	-
1974-W927	2442244.38	1974 Jul 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1974-W928	2442245.03	1974 Jul 16 1245:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W929	2442245.24	1974 Jul 16 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W930	2442245.34	1974 Jul 16 2013:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W931	2442246.07	1974 Jul 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W932	2442246.07	1974 Jul 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1974-W933	2442246.08	1974 Jul 17 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W934	2442246.08	1974 Jul 17 1357:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W935	2442246.11	1974 Jul 17 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	71	-	-
1974-W936	2442246.12	1974 Jul 17 1446:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-Y239	2442246.19	1974 Jul 17 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1974-W937	2442246.33	1974 Jul 17 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W938	2442246.35	1974 Jul 17 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W939	2442247.11	1974 Jul 18 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W940	2442247.19	1974 Jul 18 1640:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	56	-	-
1974-W941	2442247.22	1974 Jul 18 1717:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1974-W942	2442248.09	1974 Jul 19 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W943	2442248.10	1974 Jul 19 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	51	-	-
1974-W944	2442248.15	1974 Jul 19 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W945	2442248.29	1974 Jul 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1974-W946	2442248.33	1974 Jul 19 2000:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	63	-	-
1974-Y240	2442248.37	1974 Jul 19 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W947	2442248.39	1974 Jul 19 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1974-W948	2442251.04	1974 Jul 22 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W949	2442251.08	1974 Jul 22 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W950	2442251.10	1974 Jul 22 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W951	2442251.21	1974 Jul 22 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W952	2442251.33	1974 Jul 22 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	54	-	-
1974-W953	2442251.35	1974 Jul 22 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W954	2442251.90	1974 Jul 23 0929:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W955	2442253.07	1974 Jul 24 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W956	2442253.12	1974 Jul 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W957	2442253.17	1974 Jul 24 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W958	2442253.25	1974 Jul 24 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1974-Y243	2442253.27	1974 Jul 24 1824:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W959	2442253.33	1974 Jul 24 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-Y244	2442253.38	1974 Jul 24 2104:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W960	2442253.40	1974 Jul 24 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W962	2442255.06	1974 Jul 26 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W963	2442255.12	1974 Jul 26 1456:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W964	2442255.12	1974 Jul 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1974-W965	2442255.18	1974 Jul 26 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W966	2442255.35	1974 Jul 26 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	68	-	-
1974-W967	2442258.08	1974 Jul 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W968	2442258.13	1974 Jul 29 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W969	2442258.18	1974 Jul 29 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W970	2442258.20	1974 Jul 29 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W971	2442258.34	1974 Jul 29 2008:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W973	2442259.14	1974 Jul 30 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W976	2442259.36	1974 Jul 30 2037:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W984	2442259.88	1974 Jul 31 0911:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W985	2442260.07	1974 Jul 31 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1974-W986	2442260.09	1974 Jul 31 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-Y247	2442260.12	1974 Jul 31 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W987	2442260.15	1974 Jul 31 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1974-Y248	2442260.19	1974 Jul 31 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W988	2442260.19	1974 Jul 31 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1974-W989	2442260.36	1974 Jul 31 2035:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-Y249	2442260.37	1974 Jul 31 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W990	2442260.38	1974 Jul 31 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W991	2442260.55	1974 Aug 1 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1974-W992	2442261.09	1974 Aug 1 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W993	2442261.14	1974 Aug 1 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1974-W994	2442261.39	1974 Aug 1 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W995	2442262.07	1974 Aug 2 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W996	2442262.07	1974 Aug 2 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W998	2442262.16	1974 Aug 2 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	70	-	-
1974-W999	2442262.17	1974 Aug 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1000	2442262.33	1974 Aug 2 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W1001	2442262.33	1974 Aug 2 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	74	-	-
1974-W1002	2442262.40	1974 Aug 2 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1003	2442263.42	1974 Aug 3 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1004	2442264.93	1974 Aug 5 1019:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W1005	2442265.04	1974 Aug 5 1258:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1006	2442265.13	1974 Aug 5 1512:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W1007	2442265.16	1974 Aug 5 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	68	-	-
1974-W1008	2442265.17	1974 Aug 5 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1974-W1009	2442265.27	1974 Aug 5 1832:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	57	-	-
1974-W1010	2442265.41	1974 Aug 5 2156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1011	2442266.09	1974 Aug 6 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1974-W1012	2442266.90	1974 Aug 7 0940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1013	2442266.92	1974 Aug 7 0959:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W1014	2442266.96	1974 Aug 7 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1974-W1015	2442267.08	1974 Aug 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W1016	2442267.14	1974 Aug 7 1524:59	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	71	-	-
1974-W1017	2442267.19	1974 Aug 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W1018	2442267.21	1974 Aug 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-Y252	2442267.30	1974 Aug 7 1906:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W1020	2442267.31	1974 Aug 7 1932:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1974-W1021	2442267.55	1974 Aug 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1974-W1022	2442267.92	1974 Aug 8 0959:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W1023	2442267.97	1974 Aug 8 1115:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1974-W1024	2442268.17	1974 Aug 8 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1025	2442268.92	1974 Aug 9 0959:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1026	2442269.06	1974 Aug 9 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W1027	2442269.08	1974 Aug 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W1029	2442269.20	1974 Aug 9 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1030	2442269.36	1974 Aug 9 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-Y253	2442269.39	1974 Aug 9 2119:00	Rocketsonde	-	-	-	-	-	-	KAU	-	-	-	81	-	-
1974-W1031	2442271.92	1974 Aug 12 0959:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	73	-	-
1974-W1032	2442271.96	1974 Aug 12 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W1033	2442272.12	1974 Aug 12 1500:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	60	-	-
1974-W1034	2442272.13	1974 Aug 12 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W1036	2442272.27	1974 Aug 12 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1037	2442272.38	1974 Aug 12 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W1038	2442273.11	1974 Aug 13 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1039	2442273.91	1974 Aug 14 0949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W1040	2442274.06	1974 Aug 14 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	58	-	-
1974-W1041	2442274.07	1974 Aug 14 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1042	2442274.09	1974 Aug 14 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-Y256	2442274.19	1974 Aug 14 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W1044	2442274.23	1974 Aug 14 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1045	2442274.55	1974 Aug 15 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1974-W1046	2442274.88	1974 Aug 15 0900:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1047	2442275.05	1974 Aug 15 1307:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W1048	2442275.17	1974 Aug 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1049	2442275.93	1974 Aug 16 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1974-W1050	2442276.09	1974 Aug 16 1414:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1051	2442276.10	1974 Aug 16 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W1053	2442276.14	1974 Aug 16 1514:59	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	75	-	-
1974-W1054	2442276.21	1974 Aug 16 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1055	2442276.38	1974 Aug 16 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W1056	2442277.25	1974 Aug 17 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1057	2442278.88	1974 Aug 19 0900:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W1058	2442279.03	1974 Aug 19 1247:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1059	2442279.12	1974 Aug 19 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W1060	2442279.19	1974 Aug 19 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1062	2442279.22	1974 Aug 19 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1063	2442279.27	1974 Aug 19 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1064	2442279.38	1974 Aug 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1974-W1065	2442280.05	1974 Aug 20 1309:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W1066	2442280.19	1974 Aug 20 1634:59	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	62	-	-
1974-W1067	2442280.23	1974 Aug 20 1730:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	58	-	-
1974-Y261	2442280.30	1974 Aug 20 1908:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-W1068	2442280.92	1974 Aug 21 0959:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W1069	2442281.07	1974 Aug 21 1340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1070	2442281.10	1974 Aug 21 1418:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W1071	2442281.12	1974 Aug 21 1447:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1974-W1073	2442281.17	1974 Aug 21 1604:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	75	-	-
1974-Y264	2442281.19	1974 Aug 21 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1974-W1074	2442281.20	1974 Aug 21 1643:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1075	2442281.24	1974 Aug 21 1749:59	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	73	-	-
1974-W1076	2442281.25	1974 Aug 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1077	2442281.27	1974 Aug 21 1824:59	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	70	-	-
1974-W1078	2442281.35	1974 Aug 21 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1079	2442281.55	1974 Aug 22 0115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1974-W1080	2442282.07	1974 Aug 22 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1974-W1081	2442282.88	1974 Aug 23 0901:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	70	-	-
1974-W1082	2442283.07	1974 Aug 23 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1974-W1083	2442283.08	1974 Aug 23 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W1084	2442283.09	1974 Aug 23 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1975-W07	2442415.38	1975 Jan 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W08	2442416.14	1975 Jan 3 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1975-W09	2442416.15	1975 Jan 3 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-Y03	2442416.18	1975 Jan 3 1622:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W11	2442416.20	1975 Jan 3 1643:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W12	2442416.23	1975 Jan 3 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1975-Y04	2442416.38	1975 Jan 3 2102:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1975-W13	2442416.39	1975 Jan 3 2123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W14	2442416.55	1975 Jan 4 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W15	2442418.89	1975 Jan 6 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W17	2442419.33	1975 Jan 6 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W18	2442419.38	1975 Jan 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W20	2442420.21	1975 Jan 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W21	2442420.27	1975 Jan 7 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W22	2442420.35	1975 Jan 7 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-A03	2442420.89	1975 Jan 8 0922:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	48	-	-
1975-W23	2442421.10	1975 Jan 8 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W24	2442421.13	1975 Jan 8 1509:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1975-Y12	2442421.23	1975 Jan 8 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	97	-	-
1975-W26	2442421.38	1975 Jan 8 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W27	2442421.57	1975 Jan 9 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W29	2442422.23	1975 Jan 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	65	-	-
1975-W30	2442422.30	1975 Jan 9 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1975-W31	2442422.89	1975 Jan 10 0917:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W32	2442423.10	1975 Jan 10 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-Y15	2442423.20	1975 Jan 10 1643:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W34	2442423.21	1975 Jan 10 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W35	2442423.23	1975 Jan 10 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W36	2442423.30	1975 Jan 10 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1975-W37	2442423.55	1975 Jan 11 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W38	2442426.08	1975 Jan 13 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W40	2442426.33	1975 Jan 13 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1975-W41	2442426.36	1975 Jan 13 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W42	2442426.55	1975 Jan 14 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W43	2442427.11	1975 Jan 14 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W45	2442427.20	1975 Jan 14 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W46	2442427.33	1975 Jan 14 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W49	2442428.06	1975 Jan 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W50	2442428.11	1975 Jan 15 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1975-W52	2442428.21	1975 Jan 15 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-Y24	2442428.23	1975 Jan 15 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1975-W53	2442428.35	1975 Jan 15 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-Y26	2442428.38	1975 Jan 15 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1975-W54	2442428.39	1975 Jan 15 2115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1975-W55	2442428.57	1975 Jan 16 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W56	2442429.11	1975 Jan 16 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W58	2442429.25	1975 Jan 16 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W59	2442429.27	1975 Jan 16 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W60	2442429.35	1975 Jan 16 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W62	2442430.08	1975 Jan 17 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W64	2442430.23	1975 Jan 17 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W65	2442430.26	1975 Jan 17 1817:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W66	2442430.35	1975 Jan 17 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W67	2442430.41	1975 Jan 17 2149:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	51	-	-
1975-W70	2442430.55	1975 Jan 18 0113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1975-W71	2442431.84	1975 Jan 19 0812:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W72	2442433.10	1975 Jan 20 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W74	2442433.21	1975 Jan 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W75	2442433.23	1975 Jan 20 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W76	2442433.41	1975 Jan 20 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W78	2442434.21	1975 Jan 21 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W79	2442434.25	1975 Jan 21 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W80	2442434.36	1975 Jan 21 2036:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W81	2442435.07	1975 Jan 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W82	2442435.10	1975 Jan 22 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W83	2442435.13	1975 Jan 22 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1975-Y33	2442435.23	1975 Jan 22 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	91	-	-
1975-W85	2442435.27	1975 Jan 22 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-Y34	2442435.36	1975 Jan 22 2033:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1975-W86	2442435.37	1975 Jan 22 2046:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W87	2442435.47	1975 Jan 22 2315:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1975-W88	2442435.55	1975 Jan 23 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W89	2442435.90	1975 Jan 23 0942:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W91	2442436.31	1975 Jan 23 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W92	2442436.35	1975 Jan 23 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W93	2442436.78	1975 Jan 24 0638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W94	2442437.10	1975 Jan 24 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1975-W95	2442437.13	1975 Jan 24 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1975-W97	2442439.90	1975 Jan 27 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W98	2442440.08	1975 Jan 27 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1975-W99	2442440.20	1975 Jan 27 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W100	2442440.29	1975 Jan 27 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W101	2442440.29	1975 Jan 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W102	2442440.38	1975 Jan 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1975-W103	2442441.15	1975 Jan 28 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W104	2442441.29	1975 Jan 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W105	2442441.34	1975 Jan 28 2013:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W107	2442441.89	1975 Jan 29 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W108	2442441.98	1975 Jan 29 1130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W109	2442442.10	1975 Jan 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1975-W110	2442442.12	1975 Jan 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1975-Y37	2442442.23	1975 Jan 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1975-W112	2442442.59	1975 Jan 30 0204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-A05	2442443.29	1975 Jan 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	49	-	-
1975-W114	2442443.29	1975 Jan 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1975-W117	2442443.89	1975 Jan 31 0922:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W118	2442444.10	1975 Jan 31 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	78	-	-
1975-W119	2442444.15	1975 Jan 31 1537:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	78	-	-
1975-W120	2442444.18	1975 Jan 31 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W121	2442444.31	1975 Jan 31 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W122	2442444.32	1975 Jan 31 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1975-W123	2442444.55	1975 Feb 1 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W124	2442446.75	1975 Feb 3 0604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W125	2442447.08	1975 Feb 3 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W126	2442447.10	1975 Feb 3 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1975-W127	2442447.21	1975 Feb 3 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W128	2442447.28	1975 Feb 3 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1975-W129	2442447.35	1975 Feb 3 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1975-W131	2442447.55	1975 Feb 4 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W132	2442448.19	1975 Feb 4 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1975-W133	2442448.29	1975 Feb 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W136	2442449.06	1975 Feb 5 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-Y41	2442449.21	1975 Feb 5 1702:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W137	2442449.23	1975 Feb 5 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1975-W138	2442449.29	1975 Feb 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-Y43	2442449.35	1975 Feb 5 2030:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1975-W139	2442449.37	1975 Feb 5 2051:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	72	-	-
1975-W140	2442449.55	1975 Feb 6 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1975-W141	2442450.23	1975 Feb 6 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W142	2442450.28	1975 Feb 6 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W143	2442450.29	1975 Feb 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W144	2442450.38	1975 Feb 6 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W148	2442451.08	1975 Feb 7 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W149	2442451.10	1975 Feb 7 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	78	-	-
1975-A07	2442451.14	1975 Feb 7 1517:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	49	-	-
1975-Y44	2442451.20	1975 Feb 7 1641:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1975-W150	2442451.31	1975 Feb 7 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W151	2442451.35	1975 Feb 7 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W152	2442451.55	1975 Feb 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1975-W153	2442453.94	1975 Feb 10 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W154	2442454.08	1975 Feb 10 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1975-W155	2442454.12	1975 Feb 10 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W156	2442454.14	1975 Feb 10 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W157	2442454.22	1975 Feb 10 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W158	2442454.38	1975 Feb 10 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W159	2442454.55	1975 Feb 11 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W160	2442455.15	1975 Feb 11 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9~	-	-	-	THU	-	-	-	65	-	-
1975-W161	2442455.29	1975 Feb 11 1858:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W162	2442455.29	1975 Feb 11 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W163	2442455.36	1975 Feb 11 2036:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W165	2442456.17	1975 Feb 12 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W166	2442456.24	1975 Feb 12 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W167	2442456.32	1975 Feb 12 1946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1975-W168	2442456.33	1975 Feb 12 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W169	2442456.44	1975 Feb 12 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W171	2442456.55	1975 Feb 13 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W172	2442456.91	1975 Feb 13 0947:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W173	2442457.14	1975 Feb 13 1524:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1975-W174	2442457.23	1975 Feb 13 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W175	2442457.31	1975 Feb 13 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W176	2442457.38	1975 Feb 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W177	2442458.10	1975 Feb 14 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1975-W178	2442458.11	1975 Feb 14 1445:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1975-W179	2442458.13	1975 Feb 14 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W180	2442458.21	1975 Feb 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W181	2442458.26	1975 Feb 14 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W182	2442458.38	1975 Feb 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W184	2442461.11	1975 Feb 17 1445:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	73	-	-
1975-W186	2442462.15	1975 Feb 18 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W187	2442462.18	1975 Feb 18 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W188	2442462.25	1975 Feb 18 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W189	2442462.45	1975 Feb 18 2241:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W191	2442462.89	1975 Feb 19 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W192	2442463.14	1975 Feb 19 1524:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	67	-	-
1975-W193	2442463.19	1975 Feb 19 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1975-W194	2442463.25	1975 Feb 19 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W195	2442463.29	1975 Feb 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W196	2442463.32	1975 Feb 19 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1975-W197	2442463.43	1975 Feb 19 2222:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W198	2442463.55	1975 Feb 20 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W200	2442464.29	1975 Feb 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W202	2442464.43	1975 Feb 20 2219:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1975-W203	2442464.43	1975 Feb 20 2220:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1975-W205	2442464.58	1975 Feb 21 0156:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W206	2442465.05	1975 Feb 21 1313:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W207	2442465.17	1975 Feb 21 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1975-W208	2442465.18	1975 Feb 21 1614:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	69	-	-
1975-W209	2442465.21	1975 Feb 21 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1975-W210	2442465.29	1975 Feb 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W212	2442465.31	1975 Feb 21 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-Y56	2442465.37	1975 Feb 21 2058:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W213	2442465.38	1975 Feb 21 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W215	2442468.23	1975 Feb 24 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1975-W216	2442468.25	1975 Feb 24 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1975-W217	2442468.26	1975 Feb 24 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-A08	2442468.31	1975 Feb 24 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	48	-	-
1975-W218	2442468.41	1975 Feb 24 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W220	2442468.56	1975 Feb 25 0124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W221	2442469.12	1975 Feb 25 1449:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W222	2442469.22	1975 Feb 25 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W224	2442469.29	1975 Feb 25 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W225	2442469.43	1975 Feb 25 2212:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W226	2442470.06	1975 Feb 26 1322:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1975-W227	2442470.15	1975 Feb 26 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1975-W228	2442470.20	1975 Feb 26 1652:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1975-W230	2442470.21	1975 Feb 26 1708:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-Y60	2442470.34	1975 Feb 26 2008:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W231	2442470.36	1975 Feb 26 2033:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1975-W232	2442470.45	1975 Feb 26 2252:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W233	2442470.51	1975 Feb 27 0012:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W234	2442471.04	1975 Feb 27 1303:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W235	2442471.13	1975 Feb 27 1504:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	75	-	-
1975-W237	2442471.21	1975 Feb 27 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1975-W238	2442471.31	1975 Feb 27 1929:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W244	2442471.57	1975 Feb 28 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W245	2442472.03	1975 Feb 28 1245:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W246	2442472.16	1975 Feb 28 1549:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	64	-	-
1975-W247	2442472.21	1975 Feb 28 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W248	2442472.25	1975 Feb 28 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1975-W249	2442472.28	1975 Feb 28 1845:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-Y62	2442472.43	1975 Feb 28 2224:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W250	2442472.45	1975 Feb 28 2254:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W252	2442472.53	1975 Mar 1 0036:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W253	2442475.06	1975 Mar 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W254	2442475.17	1975 Mar 3 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W255	2442475.21	1975 Mar 3 1702:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1975-W256	2442475.27	1975 Mar 3 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1975-A10	2442475.28	1975 Mar 3 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	48	-	-
1975-W257	2442475.34	1975 Mar 3 2014:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W258	2442475.46	1975 Mar 3 2301:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W259	2442476.05	1975 Mar 4 1312:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W260	2442476.17	1975 Mar 4 1603:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1975-W261	2442476.20	1975 Mar 4 1641:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	78	-	-
1975-W262	2442476.21	1975 Mar 4 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1975-W263	2442476.25	1975 Mar 4 1800:00	Rocketsonde	-	-	Met Para,STS-	-	-	-	WS	-	-	-	72	-	-
1975-W264	2442476.27	1975 Mar 4 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1975-W265	2442476.55	1975 Mar 5 0112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W267	2442477.04	1975 Mar 5 1254:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W268	2442477.09	1975 Mar 5 1408:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W269	2442477.13	1975 Mar 5 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1975-W270	2442477.16	1975 Mar 5 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W271	2442477.26	1975 Mar 5 1812:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1975-W272	2442477.27	1975 Mar 5 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W273	2442477.29	1975 Mar 5 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W274	2442477.53	1975 Mar 6 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W276	2442477.70	1975 Mar 6 0442:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W277	2442478.02	1975 Mar 6 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W278	2442478.23	1975 Mar 6 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W279	2442478.32	1975 Mar 6 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W280	2442478.32	1975 Mar 6 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1975-W281	2442478.52	1975 Mar 7 0025:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1975-W283	2442479.08	1975 Mar 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1975-W284	2442479.20	1975 Mar 7 1645:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	75	-	-
1975-W285	2442479.23	1975 Mar 7 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W286	2442479.30	1975 Mar 7 1915:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1975-W287	2442479.31	1975 Mar 7 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W288	2442479.33	1975 Mar 7 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W289	2442479.44	1975 Mar 7 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W291	2442482.04	1975 Mar 10 1302:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W292	2442482.22	1975 Mar 10 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1975-W293	2442482.25	1975 Mar 10 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W294	2442482.27	1975 Mar 10 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1975-W295	2442482.35	1975 Mar 10 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W296	2442482.47	1975 Mar 10 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W298	2442483.03	1975 Mar 11 1244:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W299	2442483.23	1975 Mar 11 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W300	2442483.38	1975 Mar 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1975-W302	2442484.02	1975 Mar 12 1225:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W303	2442484.13	1975 Mar 12 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1975-W304	2442484.23	1975 Mar 12 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W305	2442484.31	1975 Mar 12 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W306	2442484.32	1975 Mar 12 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W307	2442484.33	1975 Mar 12 1949:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	79	-	-
1975-W308	2442484.34	1975 Mar 12 2014:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1975-W309	2442485.02	1975 Mar 13 1229:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W311	2442485.22	1975 Mar 13 1717:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1975-W313	2442485.29	1975 Mar 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1975-W314	2442485.99	1975 Mar 14 1152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1975-W315	2442486.18	1975 Mar 14 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	50	-	-
1975-W317	2442486.23	1975 Mar 14 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1975-W318	2442486.25	1975 Mar 14 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W319	2442486.28	1975 Mar 14 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1975-W320	2442486.29	1975 Mar 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W321	2442486.42	1975 Mar 14 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W322	2442489.12	1975 Mar 17 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1975-W324	2442489.21	1975 Mar 17 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W325	2442489.22	1975 Mar 17 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1975-W326	2442489.23	1975 Mar 17 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W327	2442489.23	1975 Mar 17 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W328	2442489.45	1975 Mar 17 2248:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W329	2442489.90	1975 Mar 18 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-A12	2442490.12	1975 Mar 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	45	-	-
1975-W331	2442490.19	1975 Mar 18 1630:00	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	73	-	-
1975-W332	2442490.20	1975 Mar 18 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W333	2442490.23	1975 Mar 18 1730:00	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	72	-	-
1975-W334	2442490.24	1975 Mar 18 1743:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1975-W335	2442490.44	1975 Mar 18 2227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W336	2442491.07	1975 Mar 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W337	2442491.21	1975 Mar 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W338	2442491.21	1975 Mar 19 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1975-W340	2442491.29	1975 Mar 19 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W341	2442492.05	1975 Mar 20 1318:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W342	2442492.15	1975 Mar 20 1535:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1975-W343	2442492.17	1975 Mar 20 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-A14	2442492.21	1975 Mar 20 1700:00	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	33	-	-
1975-W345	2442493.04	1975 Mar 21 1300:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W346	2442493.07	1975 Mar 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W347	2442493.07	1975 Mar 21 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1975-W349	2442493.22	1975 Mar 21 1719:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1975-W350	2442493.26	1975 Mar 21 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	77	-	-
1975-W351	2442493.26	1975 Mar 21 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W352	2442493.38	1975 Mar 21 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	77	-	-
1975-W353	2442493.55	1975 Mar 22 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W354	2442496.10	1975 Mar 24 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W355	2442496.21	1975 Mar 24 1702:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W357	2442496.23	1975 Mar 24 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1975-W358	2442496.25	1975 Mar 24 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W359	2442496.26	1975 Mar 24 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W360	2442496.55	1975 Mar 25 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W361	2442497.11	1975 Mar 25 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W363	2442497.24	1975 Mar 25 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W364	2442497.25	1975 Mar 25 1800:00	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	73	-	-
1975-W365	2442497.42	1975 Mar 25 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W366	2442498.05	1975 Mar 26 1308:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W367	2442498.08	1975 Mar 26 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1975-W368	2442498.19	1975 Mar 26 1638:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-W370	2442498.22	1975 Mar 26 1718:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W371	2442498.37	1975 Mar 26 2051:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	65	-	-
1975-W372	2442498.43	1975 Mar 26 2213:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W373	2442498.55	1975 Mar 27 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W374	2442499.03	1975 Mar 27 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W375	2442499.23	1975 Mar 27 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-W377	2442499.31	1975 Mar 27 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W378	2442499.53	1975 Mar 28 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W379	2442500.02	1975 Mar 28 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W380	2442500.22	1975 Mar 28 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W381	2442500.22	1975 Mar 28 1715:00	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	68	-	-
1975-W382	2442500.30	1975 Mar 28 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W386	2442503.05	1975 Mar 31 1318:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W387	2442503.17	1975 Mar 31 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W388	2442503.21	1975 Mar 31 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1975-W389	2442503.23	1975 Mar 31 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1975-W390	2442503.25	1975 Mar 31 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W391	2442503.41	1975 Mar 31 2152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1975-W392	2442503.56	1975 Apr 1 0129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W393	2442504.04	1975 Apr 1 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W394	2442504.16	1975 Apr 1 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1975-W395	2442504.28	1975 Apr 1 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W396	2442504.47	1975 Apr 1 2315:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1975-W397	2442504.53	1975 Apr 2 0049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W398	2442505.03	1975 Apr 2 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W399	2442505.24	1975 Apr 2 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1975-W400	2442505.31	1975 Apr 2 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1975-Y97	2442505.31	1975 Apr 2 1923:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	89	-	-
1975-W401	2442505.31	1975 Apr 2 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-Y98	2442505.45	1975 Apr 2 2252:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1975-W402	2442505.48	1975 Apr 2 2329:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	70	-	-
1975-W403	2442505.52	1975 Apr 3 0032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W404	2442506.02	1975 Apr 3 1222:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W405	2442506.15	1975 Apr 3 1529:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W406	2442506.23	1975 Apr 3 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1975-W407	2442506.32	1975 Apr 3 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W408	2442506.44	1975 Apr 3 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W410	2442507.07	1975 Apr 4 1333:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W411	2442507.22	1975 Apr 4 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W412	2442507.32	1975 Apr 4 1938:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1975-W413	2442507.55	1975 Apr 5 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W415	2442510.03	1975 Apr 7 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W416	2442510.22	1975 Apr 7 1711:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1975-W417	2442510.23	1975 Apr 7 1737:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1975-W418	2442510.25	1975 Apr 7 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W420	2442510.46	1975 Apr 7 2301:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W421	2442510.55	1975 Apr 8 0107:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	68	-	-
1975-W423	2442511.24	1975 Apr 8 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1975-W424	2442511.24	1975 Apr 8 1748:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W425	2442511.27	1975 Apr 8 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1975-W426	2442511.45	1975 Apr 8 2252:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1975-W428	2442512.07	1975 Apr 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1975-W429	2442512.09	1975 Apr 9 1403:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1975-W430	2442512.19	1975 Apr 9 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1975-W431	2442512.23	1975 Apr 9 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W432	2442512.33	1975 Apr 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W433	2442512.35	1975 Apr 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W434	2442512.53	1975 Apr 10 0036:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W437	2442513.02	1975 Apr 10 1233:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W438	2442513.18	1975 Apr 10 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1975-W439	2442513.40	1975 Apr 10 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W441	2442514.09	1975 Apr 11 1408:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1975-Y105	2442514.17	1975 Apr 11 1557:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W442	2442514.19	1975 Apr 11 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-A20	2442514.19	1975 Apr 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	47	-	-
1975-W443	2442514.31	1975 Apr 11 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W444	2442517.08	1975 Apr 14 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1975-W445	2442517.15	1975 Apr 14 1529:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W446	2442517.19	1975 Apr 14 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1975-W447	2442517.24	1975 Apr 14 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W448	2442517.30	1975 Apr 14 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W449	2442517.39	1975 Apr 14 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1975-W450	2442518.01	1975 Apr 15 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1975-W451	2442518.25	1975 Apr 15 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W453	2442519.06	1975 Apr 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W454	2442519.12	1975 Apr 16 1458:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W455	2442519.16	1975 Apr 16 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1975-W456	2442519.22	1975 Apr 16 1712:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W457	2442519.31	1975 Apr 16 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1975-Y112	2442519.38	1975 Apr 16 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W458	2442520.18	1975 Apr 17 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1975-W459	2442520.23	1975 Apr 17 1724:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1975-W460	2442520.37	1975 Apr 17 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W462	2442521.06	1975 Apr 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W463	2442521.11	1975 Apr 18 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W464	2442521.19	1975 Apr 18 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1975-W465	2442521.56	1975 Apr 19 0120:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W466	2442524.22	1975 Apr 21 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1975-W467	2442524.22	1975 Apr 21 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1975-W468	2442524.23	1975 Apr 21 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W469	2442524.39	1975 Apr 21 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W470	2442524.50	1975 Apr 22 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W471	2442525.02	1975 Apr 22 1230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	54	-	-
1975-W472	2442525.11	1975 Apr 22 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W473	2442525.23	1975 Apr 22 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W474	2442526.07	1975 Apr 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W475	2442526.07	1975 Apr 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W476	2442526.10	1975 Apr 23 1426:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1975-W477	2442526.21	1975 Apr 23 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1975-W478	2442526.31	1975 Apr 23 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W479	2442526.33	1975 Apr 23 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-Y119	2442526.38	1975 Apr 23 2102:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W480	2442526.39	1975 Apr 23 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W481	2442526.50	1975 Apr 24 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W483	2442527.03	1975 Apr 24 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W484	2442527.15	1975 Apr 24 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W485	2442527.22	1975 Apr 24 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W486	2442527.39	1975 Apr 24 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W487	2442528.12	1975 Apr 25 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1975-W488	2442528.13	1975 Apr 25 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1975-W489	2442528.37	1975 Apr 25 2047:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W490	2442528.52	1975 Apr 26 0022:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1975-W491	2442531.16	1975 Apr 28 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1975-W492	2442531.17	1975 Apr 28 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W493	2442531.18	1975 Apr 28 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W494	2442531.23	1975 Apr 28 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W495	2442531.38	1975 Apr 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W496	2442531.52	1975 Apr 29 0033:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W497	2442532.02	1975 Apr 29 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W498	2442532.15	1975 Apr 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W499	2442532.20	1975 Apr 29 1653:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1975-W500	2442532.40	1975 Apr 29 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W506	2442533.06	1975 Apr 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W507	2442533.15	1975 Apr 30 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W508	2442533.18	1975 Apr 30 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W509	2442533.22	1975 Apr 30 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W510	2442533.28	1975 Apr 30 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	75	-	-
1975-Y127	2442533.34	1975 Apr 30 2010:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W511	2442533.55	1975 May 1 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W512	2442533.96	1975 May 1 1107:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-Y128	2442535.17	1975 May 2 1603:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W513	2442535.19	1975 May 2 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W515	2442535.21	1975 May 2 1703:59	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	WI	-	-	-	66	-	-
1975-W516	2442535.25	1975 May 2 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1975-W517	2442535.31	1975 May 2 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W518	2442535.34	1975 May 2 2009:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W519	2442535.55	1975 May 3 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W520	2442537.89	1975 May 5 0920:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W521	2442538.07	1975 May 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1975-W523	2442538.12	1975 May 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W524	2442538.19	1975 May 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W525	2442538.23	1975 May 5 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W526	2442538.31	1975 May 5 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W527	2442538.46	1975 May 5 2304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	68	-	-
1975-W528	2442538.50	1975 May 6 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W529	2442539.37	1975 May 6 2046:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-A26	2442540.07	1975 May 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	45	-	-
1975-W530	2442540.15	1975 May 7 1529:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1975-W531	2442540.15	1975 May 7 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W533	2442540.28	1975 May 7 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1975-W534	2442540.33	1975 May 7 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	76	-	-
1975-Y137	2442540.38	1975 May 7 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W535	2442540.39	1975 May 7 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W536	2442540.55	1975 May 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W537	2442541.38	1975 May 8 2113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W538	2442541.70	1975 May 9 0446:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W539	2442542.07	1975 May 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W540	2442542.11	1975 May 9 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W541	2442542.12	1975 May 9 1454:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W542	2442542.15	1975 May 9 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1975-Y143	2442542.20	1975 May 9 1654:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W544	2442542.22	1975 May 9 1719:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1975-W545	2442542.31	1975 May 9 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W546	2442542.38	1975 May 9 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W547	2442545.07	1975 May 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W549	2442545.17	1975 May 12 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W550	2442545.22	1975 May 12 1719:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1975-W551	2442545.23	1975 May 12 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W552	2442545.55	1975 May 13 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W553	2442545.85	1975 May 13 0830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W554	2442545.93	1975 May 13 1014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W555	2442546.14	1975 May 13 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W556	2442546.19	1975 May 13 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W557	2442546.43	1975 May 13 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	64	-	-
1975-W558	2442547.07	1975 May 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W559	2442547.07	1975 May 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W560	2442547.08	1975 May 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W562	2442547.21	1975 May 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W563	2442547.22	1975 May 14 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1975-Y149	2442547.29	1975 May 14 1855:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W564	2442547.31	1975 May 14 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-Y151	2442547.38	1975 May 14 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	83	-	-
1975-W565	2442547.39	1975 May 14 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	68	-	-
1975-W566	2442547.55	1975 May 15 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W567	2442548.73	1975 May 16 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W568	2442549.07	1975 May 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W569	2442549.08	1975 May 16 1358:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1975-W570	2442549.10	1975 May 16 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1975-W571	2442549.15	1975 May 16 1534:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W572	2442549.21	1975 May 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W573	2442549.23	1975 May 16 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1975-W574	2442549.25	1975 May 16 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W575	2442549.37	1975 May 16 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W577	2442552.10	1975 May 19 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W578	2442552.11	1975 May 19 1442:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	62	-	-
1975-W579	2442552.17	1975 May 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1975-W580	2442552.30	1975 May 19 1906:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W581	2442552.38	1975 May 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W582	2442552.43	1975 May 19 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	63	-	-
1975-W583	2442552.55	1975 May 20 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W584	2442552.97	1975 May 20 1110:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W585	2442553.21	1975 May 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1975-W586	2442554.07	1975 May 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W587	2442554.09	1975 May 21 1414:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W588	2442554.09	1975 May 21 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1975-W589	2442554.11	1975 May 21 1441:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	52	-	-
1975-W591	2442554.13	1975 May 21 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-W593	2442554.15	1975 May 21 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1975-W594	2442554.17	1975 May 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W595	2442554.33	1975 May 21 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W596	2442554.43	1975 May 21 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	66	-	-
1975-W597	2442554.56	1975 May 22 0124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W598	2442555.82	1975 May 23 0745:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	70	-	-
1975-W599	2442555.99	1975 May 23 1145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W600	2442556.07	1975 May 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W602	2442556.13	1975 May 23 1510:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1975-W603	2442556.28	1975 May 23 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W604	2442556.35	1975 May 23 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W605	2442556.43	1975 May 23 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1975-W612	2442559.15	1975 May 26 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1975-W613	2442559.43	1975 May 26 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	64	-	-
1975-W614	2442560.07	1975 May 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W615	2442560.31	1975 May 27 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W616	2442560.37	1975 May 27 2047:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W617	2442560.49	1975 May 27 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W618	2442560.85	1975 May 28 0830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W619	2442560.89	1975 May 28 0920:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W620	2442560.94	1975 May 28 1026:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W622	2442561.14	1975 May 28 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W623	2442561.19	1975 May 28 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1975-W624	2442561.24	1975 May 28 1746:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W625	2442561.25	1975 May 28 1753:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-Y173	2442561.40	1975 May 28 2140:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1975-W626	2442561.42	1975 May 28 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1975-W627	2442561.43	1975 May 28 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	64	-	-
1975-W628	2442561.55	1975 May 29 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W629	2442562.07	1975 May 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1975-W630	2442562.37	1975 May 29 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W631	2442562.40	1975 May 29 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W632	2442563.07	1975 May 30 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W633	2442563.10	1975 May 30 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W634	2442563.11	1975 May 30 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1975-W635	2442563.15	1975 May 30 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1975-W637	2442563.24	1975 May 30 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W638	2442563.33	1975 May 30 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W639	2442563.40	1975 May 30 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1975-W653	2442566.17	1975 Jun 2 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W654	2442566.19	1975 Jun 2 1634:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	62	-	-
1975-W655	2442566.23	1975 Jun 2 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W656	2442566.33	1975 Jun 2 1953:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W657	2442566.55	1975 Jun 3 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	68	-	-
1975-W658	2442567.04	1975 Jun 3 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1975-W659	2442567.11	1975 Jun 3 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1975-W660	2442567.21	1975 Jun 3 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W661	2442568.07	1975 Jun 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W662	2442568.11	1975 Jun 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W664	2442568.13	1975 Jun 4 1511:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1975-W665	2442568.23	1975 Jun 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1975-W666	2442568.24	1975 Jun 4 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W667	2442568.33	1975 Jun 4 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W668	2442568.54	1975 Jun 5 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W669	2442569.13	1975 Jun 5 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W670	2442569.21	1975 Jun 5 1700:00	Rocketsonde	-	-	STS-	-	-	-	WS	-	-	-	71	-	-
1975-W671	2442569.31	1975 Jun 5 1919:59	Rocketsonde	-	-	STS-	-	-	-	WS	-	-	-	67	-	-
1975-W672	2442569.38	1975 Jun 5 2111:59	Rocketsonde	-	-	Starute,STS-	-	-	-	WS	-	-	-	56	-	-
1975-W673	2442569.42	1975 Jun 5 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	65	-	-
1975-W674	2442569.55	1975 Jun 6 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W675	2442570.07	1975 Jun 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1975-W676	2442570.10	1975 Jun 6 1426:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1975-W677	2442570.19	1975 Jun 6 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W678	2442570.21	1975 Jun 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-Y183	2442570.38	1975 Jun 6 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1975-W679	2442570.38	1975 Jun 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	67	-	-
1975-W680	2442570.39	1975 Jun 6 2123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W681	2442573.14	1975 Jun 9 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W682	2442573.15	1975 Jun 9 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	64	-	-
1975-W683	2442573.21	1975 Jun 9 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W684	2442573.22	1975 Jun 9 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W685	2442573.23	1975 Jun 9 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1975-W686	2442573.33	1975 Jun 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W687	2442574.87	1975 Jun 11 0852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W688	2442574.91	1975 Jun 11 0952:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W689	2442574.93	1975 Jun 11 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W690	2442575.10	1975 Jun 11 1419:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W691	2442575.10	1975 Jun 11 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W692	2442575.13	1975 Jun 11 1507:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1975-W694	2442575.38	1975 Jun 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	60	-	-
1975-W695	2442575.57	1975 Jun 12 0147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W697	2442577.07	1975 Jun 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W698	2442577.08	1975 Jun 13 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1975-W699	2442577.15	1975 Jun 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1975-W700	2442577.32	1975 Jun 13 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W701	2442577.38	1975 Jun 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W702	2442579.90	1975 Jun 16 0931:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W703	2442581.15	1975 Jun 17 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W704	2442581.33	1975 Jun 17 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W705	2442581.41	1975 Jun 17 2151:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W706	2442581.89	1975 Jun 18 0925:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W707	2442582.05	1975 Jun 18 1307:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1975-W708	2442582.07	1975 Jun 18 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1975-W710	2442582.18	1975 Jun 18 1619:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	64	-	-
1975-W711	2442582.29	1975 Jun 18 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	75	-	-
1975-W712	2442582.31	1975 Jun 18 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W713	2442582.35	1975 Jun 18 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W714	2442582.38	1975 Jun 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	66	-	-
1975-W715	2442582.55	1975 Jun 19 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W716	2442583.33	1975 Jun 19 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W717	2442583.89	1975 Jun 20 0921:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W718	2442584.04	1975 Jun 20 1302:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1975-W719	2442584.07	1975 Jun 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W720	2442584.14	1975 Jun 20 1520:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	64	-	-
1975-W721	2442584.28	1975 Jun 20 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-Y205	2442584.33	1975 Jun 20 1956:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-Y206	2442584.38	1975 Jun 20 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-W722	2442584.38	1975 Jun 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	65	-	-
1975-W723	2442584.39	1975 Jun 20 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W724	2442584.56	1975 Jun 21 0123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W725	2442587.07	1975 Jun 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W726	2442587.13	1975 Jun 23 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W727	2442587.15	1975 Jun 23 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	64	-	-
1975-W728	2442587.35	1975 Jun 23 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W729	2442587.43	1975 Jun 23 2221:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	69	-	-
1975-A40	2442588.04	1975 Jun 24 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	41	-	-
1975-W730	2442588.11	1975 Jun 24 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W731	2442588.20	1975 Jun 24 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W732	2442588.42	1975 Jun 24 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	67	-	-
1975-W733	2442588.85	1975 Jun 25 0830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W734	2442588.94	1975 Jun 25 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1975-W735	2442589.06	1975 Jun 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W736	2442589.06	1975 Jun 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W737	2442589.12	1975 Jun 25 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W738	2442589.20	1975 Jun 25 1652:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	62	-	-
1975-W739	2442589.32	1975 Jun 25 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-Y212	2442589.33	1975 Jun 25 2000:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-W740	2442589.36	1975 Jun 25 2043:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	76	-	-
1975-W741	2442589.38	1975 Jun 25 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	68	-	-
1975-W742	2442589.55	1975 Jun 26 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W743	2442590.08	1975 Jun 26 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W744	2442591.07	1975 Jun 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W745	2442591.16	1975 Jun 27 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	54	-	-
1975-W746	2442591.18	1975 Jun 27 1613:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W747	2442591.36	1975 Jun 27 2043:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W748	2442591.55	1975 Jun 28 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W755	2442594.07	1975 Jun 30 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W756	2442594.07	1975 Jun 30 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W757	2442594.23	1975 Jun 30 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1975-W758	2442594.26	1975 Jun 30 1815:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W759	2442594.55	1975 Jul 1 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W760	2442595.07	1975 Jul 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1975-W761	2442596.07	1975 Jul 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1975-A41	2442596.10	1975 Jul 2 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	47	-	-
1975-W763	2442596.24	1975 Jul 2 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1975-W764	2442596.32	1975 Jul 2 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W765	2442596.32	1975 Jul 2 1938:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-Y218	2442596.38	1975 Jul 2 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-W766	2442596.38	1975 Jul 2 2112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W767	2442596.57	1975 Jul 3 0137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W768	2442597.33	1975 Jul 3 1955:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W769	2442600.90	1975 Jul 7 0935:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W770	2442601.10	1975 Jul 7 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W771	2442601.10	1975 Jul 7 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1975-W772	2442601.38	1975 Jul 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W773	2442601.48	1975 Jul 7 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	66	-	-
1975-W774	2442601.53	1975 Jul 8 0038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W775	2442602.15	1975 Jul 8 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W776	2442602.90	1975 Jul 9 0931:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W777	2442603.05	1975 Jul 9 1304:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1975-W778	2442603.06	1975 Jul 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W780	2442603.23	1975 Jul 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W781	2442603.29	1975 Jul 9 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W782	2442603.31	1975 Jul 9 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W783	2442603.58	1975 Jul 10 0157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1975-W784	2442604.33	1975 Jul 10 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W785	2442604.51	1975 Jul 11 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W786	2442605.01	1975 Jul 11 1211:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W787	2442605.10	1975 Jul 11 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W788	2442605.17	1975 Jul 11 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1975-W789	2442605.29	1975 Jul 11 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-Y223	2442605.30	1975 Jul 11 1914:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W790	2442605.32	1975 Jul 11 1942:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W791	2442605.40	1975 Jul 11 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W792	2442606.15	1975 Jul 12 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W793	2442607.04	1975 Jul 13 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W794	2442608.09	1975 Jul 14 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W795	2442608.16	1975 Jul 14 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1975-W796	2442608.31	1975 Jul 14 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W797	2442608.42	1975 Jul 14 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	60	-	-
1975-W798	2442608.47	1975 Jul 14 2311:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W799	2442608.50	1975 Jul 15 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W800	2442608.95	1975 Jul 15 1046:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W801	2442609.12	1975 Jul 15 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	68	-	-
1975-Y225	2442609.16	1975 Jul 15 1549:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W802	2442609.38	1975 Jul 15 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W803	2442609.96	1975 Jul 16 1058:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W804	2442610.10	1975 Jul 16 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1975-W805	2442610.10	1975 Jul 16 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W806	2442610.15	1975 Jul 16 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	51	-	-
1975-W808	2442610.31	1975 Jul 16 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1975-W809	2442610.48	1975 Jul 16 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W810	2442610.53	1975 Jul 17 0040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	62	-	-
1975-W811	2442611.19	1975 Jul 17 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1975-W812	2442611.55	1975 Jul 18 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W813	2442612.10	1975 Jul 18 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W814	2442612.17	1975 Jul 18 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1975-W815	2442612.31	1975 Jul 18 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W816	2442612.36	1975 Jul 18 2042:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W817	2442615.07	1975 Jul 21 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W818	2442615.13	1975 Jul 21 1510:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	61	-	-
1975-W819	2442615.15	1975 Jul 21 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1975-W820	2442615.25	1975 Jul 21 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1975-Y229	2442615.46	1975 Jul 21 2300:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-W821	2442615.48	1975 Jul 21 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1975-W822	2442616.39	1975 Jul 22 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W823	2442616.57	1975 Jul 23 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W824	2442617.17	1975 Jul 23 1611:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	73	-	-
1975-W826	2442617.23	1975 Jul 23 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W827	2442617.24	1975 Jul 23 1740:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	73	-	-
1975-W828	2442617.26	1975 Jul 23 1821:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W829	2442617.30	1975 Jul 23 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1975-W830	2442617.70	1975 Jul 24 0443:59	Rocketsonde	-	-	Thermistor Intercomp	-	-	-	WI	-	-	-	61	-	-
1975-W831	2442618.33	1975 Jul 24 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W832	2442618.52	1975 Jul 25 0022:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W833	2442619.01	1975 Jul 25 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W834	2442619.17	1975 Jul 25 1604:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	71	-	-
1975-W835	2442619.22	1975 Jul 25 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-A44	2442619.28	1975 Jul 25 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	39	-	-
1975-W836	2442619.42	1975 Jul 25 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1975-W837	2442619.44	1975 Jul 25 2236:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W838	2442621.90	1975 Jul 28 0942:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W839	2442622.15	1975 Jul 28 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W840	2442622.17	1975 Jul 28 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W841	2442622.18	1975 Jul 28 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W843	2442622.49	1975 Jul 28 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1975-W844	2442622.55	1975 Jul 29 0109:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W845	2442623.15	1975 Jul 29 1534:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	58	-	-
1975-W847	2442623.25	1975 Jul 29 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	78	-	-
1975-W849	2442623.31	1975 Jul 29 1931:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	79	-	-
1975-W850	2442624.03	1975 Jul 30 1238:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W851	2442624.09	1975 Jul 30 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1975-W852	2442624.12	1975 Jul 30 1448:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1975-W853	2442624.14	1975 Jul 30 1520:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	68	-	-
1975-W854	2442624.23	1975 Jul 30 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W856	2442624.41	1975 Jul 30 2144:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W861	2442624.57	1975 Jul 31 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W862	2442625.17	1975 Jul 31 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W863	2442625.42	1975 Jul 31 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	68	-	-
1975-W864	2442625.90	1975 Aug 1 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1975-W865	2442626.10	1975 Aug 1 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W866	2442626.11	1975 Aug 1 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1975-W868	2442626.12	1975 Aug 1 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W869	2442626.15	1975 Aug 1 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-Y238	2442626.18	1975 Aug 1 1621:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1975-W870	2442626.43	1975 Aug 1 2217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W871	2442626.55	1975 Aug 2 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W872	2442629.06	1975 Aug 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W873	2442629.07	1975 Aug 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W874	2442629.13	1975 Aug 4 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1975-W875	2442629.23	1975 Aug 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W876	2442629.37	1975 Aug 4 2056:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1975-W877	2442629.38	1975 Aug 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1975-W878	2442629.55	1975 Aug 5 0118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W879	2442630.15	1975 Aug 5 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W880	2442630.21	1975 Aug 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W881	2442630.25	1975 Aug 5 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W882	2442630.32	1975 Aug 5 1936:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W883	2442631.02	1975 Aug 6 1233:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W884	2442631.03	1975 Aug 6 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1975-W885	2442631.13	1975 Aug 6 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-Y242	2442631.16	1975 Aug 6 1555:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-W886	2442631.18	1975 Aug 6 1620:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W887	2442631.22	1975 Aug 6 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W889	2442631.27	1975 Aug 6 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W890	2442631.39	1975 Aug 6 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W891	2442631.47	1975 Aug 6 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	60	-	-
1975-W892	2442631.55	1975 Aug 7 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W893	2442632.15	1975 Aug 7 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W894	2442632.15	1975 Aug 7 1543:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	77	-	-
1975-W895	2442632.22	1975 Aug 7 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-Y244	2442632.49	1975 Aug 7 2352:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1975-W896	2442632.51	1975 Aug 8 0012:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W897	2442632.89	1975 Aug 8 0923:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W898	2442633.13	1975 Aug 8 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W899	2442633.40	1975 Aug 8 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	61	-	-
1975-W900	2442633.55	1975 Aug 9 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W901	2442636.03	1975 Aug 11 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W902	2442636.15	1975 Aug 11 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W903	2442636.16	1975 Aug 11 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	56	-	-
1975-W905	2442637.13	1975 Aug 12 1511:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1975-W906	2442637.15	1975 Aug 12 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-A46	2442637.18	1975 Aug 12 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	40	-	-
1975-W907	2442637.18	1975 Aug 12 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W908	2442637.27	1975 Aug 12 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W909	2442637.41	1975 Aug 12 2145:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	71	-	-
1975-W910	2442637.42	1975 Aug 12 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1975-W911	2442637.46	1975 Aug 12 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	60	-	-
1975-W912	2442637.52	1975 Aug 13 0022:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W913	2442637.96	1975 Aug 13 1103:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W914	2442638.08	1975 Aug 13 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1975-W915	2442638.15	1975 Aug 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-Y248	2442638.21	1975 Aug 13 1701:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W917	2442638.24	1975 Aug 13 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W918	2442638.24	1975 Aug 13 1745:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W919	2442638.27	1975 Aug 13 1834:59	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W920	2442638.40	1975 Aug 13 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	63	-	-
1975-W921	2442638.45	1975 Aug 13 2246:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W922	2442638.58	1975 Aug 14 0158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W923	2442639.40	1975 Aug 14 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	60	-	-
1975-Y250	2442639.66	1975 Aug 15 0345:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W924	2442639.67	1975 Aug 15 0409:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-W925	2442639.72	1975 Aug 15 0521:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	65	-	-
1975-W926	2442639.74	1975 Aug 15 0551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1975-Y251	2442639.77	1975 Aug 15 0630:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1975-W927	2442640.07	1975 Aug 15 1342:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W928	2442640.14	1975 Aug 15 1525:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W929	2442640.15	1975 Aug 15 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1975-W930	2442640.15	1975 Aug 15 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-W932	2442640.21	1975 Aug 15 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W933	2442640.36	1975 Aug 15 2043:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W934	2442640.55	1975 Aug 16 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1975-W935	2442642.96	1975 Aug 18 1100:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1975-W936	2442643.13	1975 Aug 18 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1975-W937	2442643.19	1975 Aug 18 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W938	2442643.23	1975 Aug 18 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W940	2442643.25	1975 Aug 18 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W941	2442643.43	1975 Aug 18 2215:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W942	2442644.25	1975 Aug 19 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W943	2442644.51	1975 Aug 20 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W944	2442644.97	1975 Aug 20 1114:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-Y256	2442645.20	1975 Aug 20 1654:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	88	-	-
1975-W946	2442645.24	1975 Aug 20 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-Y257	2442645.36	1975 Aug 20 2042:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1975-W947	2442645.38	1975 Aug 20 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	67	-	-
1975-W948	2442645.51	1975 Aug 21 0019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W949	2442646.14	1975 Aug 21 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W950	2442646.57	1975 Aug 22 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1975-W951	2442647.08	1975 Aug 22 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W953	2442647.12	1975 Aug 22 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1975-W954	2442647.14	1975 Aug 22 1524:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	54	-	-
1975-W955	2442647.16	1975 Aug 22 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1975-W956	2442647.42	1975 Aug 22 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1975-W957	2442650.02	1975 Aug 25 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W958	2442650.12	1975 Aug 25 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1975-W960	2442650.24	1975 Aug 25 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W961	2442650.30	1975 Aug 25 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W962	2442650.36	1975 Aug 25 2044:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W963	2442651.12	1975 Aug 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W964	2442652.05	1975 Aug 27 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1975-W965	2442652.16	1975 Aug 27 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	54	-	-
1975-W966	2442652.17	1975 Aug 27 1609:59	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W967	2442652.18	1975 Aug 27 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W969	2442652.28	1975 Aug 27 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W970	2442652.30	1975 Aug 27 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W971	2442652.37	1975 Aug 27 2048:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W972	2442652.52	1975 Aug 28 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W973	2442652.97	1975 Aug 28 1110:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W974	2442653.27	1975 Aug 28 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W975	2442654.11	1975 Aug 29 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1975-W977	2442654.23	1975 Aug 29 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W978	2442654.45	1975 Aug 29 2248:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	65	-	-
1975-W983	2442658.04	1975 Sep 2 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W984	2442658.14	1975 Sep 2 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1975-W985	2442658.16	1975 Sep 2 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-Y264	2442658.25	1975 Sep 2 1758:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-W986	2442658.25	1975 Sep 2 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W987	2442658.27	1975 Sep 2 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W988	2442658.52	1975 Sep 3 0027:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1975-W989	2442659.07	1975 Sep 3 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W990	2442659.14	1975 Sep 3 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1975-A50	2442659.18	1975 Sep 3 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	42	-	-
1975-W992	2442659.21	1975 Sep 3 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W993	2442659.23	1975 Sep 3 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1975-W994	2442659.27	1975 Sep 3 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-Y270	2442659.43	1975 Sep 3 2222:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1975-W995	2442659.45	1975 Sep 3 2247:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	74	-	-
1975-W996	2442659.48	1975 Sep 3 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W997	2442660.00	1975 Sep 4 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W998	2442660.19	1975 Sep 4 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W999	2442660.35	1975 Sep 4 2017:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-W1000	2442661.12	1975 Sep 5 1447:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-A52	2442661.23	1975 Sep 5 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	45	-	-
1975-W1002	2442661.29	1975 Sep 5 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W1003	2442661.52	1975 Sep 6 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W1004	2442664.02	1975 Sep 8 1234:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W1006	2442664.43	1975 Sep 8 2223:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	67	-	-
1975-W1007	2442664.47	1975 Sep 8 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1975-W1008	2442665.42	1975 Sep 9 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W1010	2442665.61	1975 Sep 10 0243:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W1011	2442665.77	1975 Sep 10 0634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	77	-	-
1975-W1012	2442665.89	1975 Sep 10 0927:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1013	2442666.11	1975 Sep 10 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1014	2442666.17	1975 Sep 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-Y01	2442780.15	1976 Jan 2 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	94	-	-
1976-W02	2442780.55	1976 Jan 3 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W03	2442783.07	1976 Jan 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1976-W05	2442783.12	1976 Jan 5 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W06	2442783.12	1976 Jan 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1976-W07	2442783.15	1976 Jan 5 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W08	2442783.19	1976 Jan 5 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-W09	2442783.27	1976 Jan 5 1825:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1976-W10	2442783.27	1976 Jan 5 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W11	2442783.38	1976 Jan 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W12	2442783.46	1976 Jan 5 2306:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W13	2442783.55	1976 Jan 6 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W14	2442784.07	1976 Jan 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1976-W16	2442784.25	1976 Jan 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W17	2442784.29	1976 Jan 6 1857:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1976-W18	2442785.07	1976 Jan 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W20	2442785.26	1976 Jan 7 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W21	2442785.27	1976 Jan 7 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1976-W22	2442785.32	1976 Jan 7 1933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-Y07	2442785.33	1976 Jan 7 1957:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	87	-	-
1976-W23	2442785.34	1976 Jan 7 2007:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W24	2442785.35	1976 Jan 7 2031:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1976-W25	2442785.42	1976 Jan 7 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W26	2442785.58	1976 Jan 8 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W27	2442786.10	1976 Jan 8 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W28	2442786.12	1976 Jan 8 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	54	-	-
1976-W30	2442786.19	1976 Jan 8 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W31	2442787.07	1976 Jan 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-A01	2442787.11	1976 Jan 9 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1976-W32	2442787.25	1976 Jan 9 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1976-W34	2442787.40	1976 Jan 9 2142:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W35	2442787.43	1976 Jan 9 2213:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-Y11	2442787.43	1976 Jan 9 2218:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	KAU	-	-	-	86	-	-
1976-W36	2442787.45	1976 Jan 9 2245:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	76	-	-
1976-W38	2442790.22	1976 Jan 12 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1976-W39	2442790.25	1976 Jan 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1976-W40	2442790.25	1976 Jan 12 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W41	2442790.30	1976 Jan 12 1906:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1976-W42	2442790.33	1976 Jan 12 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W43	2442790.41	1976 Jan 12 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W44	2442790.44	1976 Jan 12 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W45	2442791.05	1976 Jan 13 1308:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W46	2442791.07	1976 Jan 13 1336:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W48	2442791.22	1976 Jan 13 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W49	2442791.23	1976 Jan 13 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W50	2442791.25	1976 Jan 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W51	2442792.03	1976 Jan 14 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W52	2442792.09	1976 Jan 14 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W54	2442792.19	1976 Jan 14 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1976-W55	2442792.20	1976 Jan 14 1647:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1976-W56	2442792.22	1976 Jan 14 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W57	2442792.30	1976 Jan 14 1910:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1976-W58	2442792.41	1976 Jan 14 2148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1976-Y20	2442792.41	1976 Jan 14 2148:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	87	-	-
1976-W59	2442792.42	1976 Jan 14 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W60	2442792.43	1976 Jan 14 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	73	-	-
1976-W61	2442792.43	1976 Jan 14 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-W62	2442792.89	1976 Jan 15 0914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W63	2442793.10	1976 Jan 15 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1976-W64	2442793.16	1976 Jan 15 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W66	2442793.20	1976 Jan 15 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-Y21	2442793.44	1976 Jan 15 2231:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	KAU	-	-	-	87	-	-
1976-W67	2442793.45	1976 Jan 15 2254:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1976-W68	2442794.02	1976 Jan 16 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W69	2442794.08	1976 Jan 16 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W70	2442794.15	1976 Jan 16 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1976-W71	2442794.19	1976 Jan 16 1633:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W72	2442794.21	1976 Jan 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W73	2442794.25	1976 Jan 16 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W74	2442794.29	1976 Jan 16 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W76	2442794.40	1976 Jan 16 2142:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W77	2442794.44	1976 Jan 16 2237:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W78	2442796.26	1976 Jan 18 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W79	2442796.35	1976 Jan 18 2025:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	66	-	-
1976-W80	2442797.04	1976 Jan 19 1251:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W81	2442797.09	1976 Jan 19 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1976-W82	2442797.14	1976 Jan 19 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-A02	2442797.19	1976 Jan 19 1638:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1976-W83	2442797.23	1976 Jan 19 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1976-W84	2442797.27	1976 Jan 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W85	2442797.35	1976 Jan 19 2023:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W86	2442797.41	1976 Jan 19 2151:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1976-W87	2442797.43	1976 Jan 19 2215:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W88	2442797.51	1976 Jan 20 0011:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W91	2442798.21	1976 Jan 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W92	2442798.32	1976 Jan 20 1942:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W94	2442799.11	1976 Jan 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W95	2442799.17	1976 Jan 21 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W96	2442799.20	1976 Jan 21 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W97	2442799.20	1976 Jan 21 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W99	2442799.23	1976 Jan 21 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W100	2442799.31	1976 Jan 21 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W101	2442799.42	1976 Jan 21 2211:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1976-W102	2442799.54	1976 Jan 22 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W103	2442799.58	1976 Jan 22 0152:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W104	2442800.12	1976 Jan 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1976-W106	2442800.21	1976 Jan 22 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1900	2442800.27	1976 Jan 22 1835	Rocketsonde	-	-	Blunt Probe	-	-	-	WI	-	-	-	70?	-	-
1976-W1901	2442808.35	1976 Jan 30 2025	Rocketsonde	-	-	Gerdien Condenser	-	-	-	WI	-	-	-	70?	-	-
1976-W107	2442800.25	1976 Jan 22 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W108	2442800.25	1976 Jan 22 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W109	2442800.30	1976 Jan 22 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1976-W110	2442800.31	1976 Jan 22 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1976-W111	2442800.92	1976 Jan 23 1003:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W112	2442801.07	1976 Jan 23 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W113	2442801.17	1976 Jan 23 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1976-W114	2442801.18	1976 Jan 23 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W116	2442801.28	1976 Jan 23 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W117	2442801.40	1976 Jan 23 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W118	2442801.40	1976 Jan 23 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W119	2442801.46	1976 Jan 23 2302:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W120	2442801.53	1976 Jan 24 0036:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W121	2442803.71	1976 Jan 26 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W122	2442804.07	1976 Jan 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1976-W123	2442804.20	1976 Jan 26 1653:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W124	2442804.21	1976 Jan 26 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W125	2442804.21	1976 Jan 26 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1976-W126	2442804.24	1976 Jan 26 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-W127	2442804.31	1976 Jan 26 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W128	2442804.37	1976 Jan 26 2054:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W129	2442804.47	1976 Jan 26 2320:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W130	2442805.21	1976 Jan 27 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W131	2442805.34	1976 Jan 27 2008:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W132	2442805.56	1976 Jan 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W133	2442806.07	1976 Jan 28 1341:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-A07	2442806.12	1976 Jan 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	48	-	-
1976-W134	2442806.14	1976 Jan 28 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1976-W135	2442806.19	1976 Jan 28 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W136	2442806.20	1976 Jan 28 1652:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W137	2442806.21	1976 Jan 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1976-W138	2442806.21	1976 Jan 28 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W139	2442806.35	1976 Jan 28 2026:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1976-W140	2442806.38	1976 Jan 28 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1976-W141	2442806.50	1976 Jan 28 2355:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W143	2442807.22	1976 Jan 29 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W144	2442807.31	1976 Jan 29 1925:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-Y37	2442807.33	1976 Jan 29 2002:00	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	86	-	-
1976-W145	2442807.51	1976 Jan 30 0013:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W147	2442807.57	1976 Jan 30 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W148	2442808.19	1976 Jan 30 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W149	2442808.21	1976 Jan 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W150	2442808.23	1976 Jan 30 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W151	2442808.24	1976 Jan 30 1744:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W152	2442808.30	1976 Jan 30 1907:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W163	2442808.81	1976 Jan 31 0730:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W164	2442811.09	1976 Feb 2 1411:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-A08	2442811.17	1976 Feb 2 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	48	-	-
1976-W165	2442811.22	1976 Feb 2 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W166	2442811.29	1976 Feb 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1976-W167	2442811.33	1976 Feb 2 1957:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W168	2442811.34	1976 Feb 2 2003:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1976-W169	2442811.38	1976 Feb 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W170	2442811.47	1976 Feb 2 2320:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W171	2442812.05	1976 Feb 3 1313:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W172	2442812.16	1976 Feb 3 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W173	2442812.20	1976 Feb 3 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1976-W175	2442812.23	1976 Feb 3 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W176	2442812.24	1976 Feb 3 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W177	2442813.01	1976 Feb 4 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W179	2442813.16	1976 Feb 4 1545:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1976-W180	2442813.16	1976 Feb 4 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W181	2442813.19	1976 Feb 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-Y51	2442813.23	1976 Feb 4 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-W182	2442813.25	1976 Feb 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W183	2442813.32	1976 Feb 4 1941:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	67	-	-
1976-W184	2442813.32	1976 Feb 4 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W185	2442813.55	1976 Feb 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W187	2442814.14	1976 Feb 5 1517:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1976-W188	2442814.20	1976 Feb 5 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1976-W189	2442814.29	1976 Feb 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-A09	2442814.31	1976 Feb 5 1927:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	45	-	-
1976-W193	2442815.02	1976 Feb 6 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W196	2442815.21	1976 Feb 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1976-W197	2442815.25	1976 Feb 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W198	2442815.34	1976 Feb 6 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W199	2442815.42	1976 Feb 6 2210:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W200	2442815.81	1976 Feb 7 0732:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W201	2442818.10	1976 Feb 9 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W203	2442818.23	1976 Feb 9 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1976-W204	2442818.27	1976 Feb 9 1835:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1976-W205	2442818.29	1976 Feb 9 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W206	2442818.38	1976 Feb 9 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W207	2442818.48	1976 Feb 9 2337:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W209	2442818.99	1976 Feb 10 1145:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W210	2442819.22	1976 Feb 10 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W211	2442819.43	1976 Feb 10 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W212	2442820.02	1976 Feb 11 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W213	2442820.17	1976 Feb 11 1607:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-Y66	2442820.21	1976 Feb 11 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-W215	2442820.22	1976 Feb 11 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-W216	2442820.26	1976 Feb 11 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W217	2442820.27	1976 Feb 11 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W218	2442820.29	1976 Feb 11 1902:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W219	2442820.34	1976 Feb 11 2014:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W221	2442821.14	1976 Feb 12 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1976-W222	2442821.16	1976 Feb 12 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W224	2442821.29	1976 Feb 12 1853:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W225	2442821.29	1976 Feb 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W226	2442821.40	1976 Feb 12 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W227	2442821.50	1976 Feb 12 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W228	2442821.74	1976 Feb 13 0540:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W229	2442821.77	1976 Feb 13 0630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	72	-	-
1976-W231	2442822.03	1976 Feb 13 1238:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W232	2442822.13	1976 Feb 13 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1976-W234	2442822.22	1976 Feb 13 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1976-W235	2442822.26	1976 Feb 13 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-Y70	2442822.40	1976 Feb 13 2138:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1976-W236	2442822.42	1976 Feb 13 2207:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	76	-	-
1976-W237	2442822.53	1976 Feb 14 0036:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W238	2442823.48	1976 Feb 14 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1976-W239	2442824.75	1976 Feb 16 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1976-W242	2442825.23	1976 Feb 16 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W243	2442825.60	1976 Feb 17 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W245	2442825.99	1976 Feb 17 1145:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W246	2442826.11	1976 Feb 17 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1976-W247	2442826.21	1976 Feb 17 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W248	2442826.23	1976 Feb 17 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W249	2442826.50	1976 Feb 17 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W250	2442827.02	1976 Feb 18 1226:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W251	2442827.11	1976 Feb 18 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W253	2442827.13	1976 Feb 18 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-Y79	2442827.17	1976 Feb 18 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1976-W254	2442827.17	1976 Feb 18 1611:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W255	2442827.18	1976 Feb 18 1621:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1976-W257	2442827.21	1976 Feb 18 1656:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W258	2442827.27	1976 Feb 18 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-Y81	2442827.38	1976 Feb 18 2108:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W259	2442827.40	1976 Feb 18 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W260	2442827.42	1976 Feb 18 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1976-W261	2442827.54	1976 Feb 19 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-Y82	2442827.55	1976 Feb 19 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W262	2442828.14	1976 Feb 19 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1976-W263	2442828.19	1976 Feb 19 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1976-W264	2442828.19	1976 Feb 19 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W265	2442829.07	1976 Feb 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W266	2442829.19	1976 Feb 20 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W267	2442829.19	1976 Feb 20 1629:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W268	2442829.25	1976 Feb 20 1754:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1976-W269	2442829.26	1976 Feb 20 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W270	2442829.37	1976 Feb 20 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W271	2442829.44	1976 Feb 20 2236:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1976-W272	2442829.52	1976 Feb 21 0024:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1976-W273	2442829.97	1976 Feb 21 1115:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W274	2442830.62	1976 Feb 22 0248:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W275	2442832.18	1976 Feb 23 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W276	2442832.20	1976 Feb 23 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W277	2442832.22	1976 Feb 23 1713:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W278	2442832.41	1976 Feb 23 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1976-W279	2442832.43	1976 Feb 23 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W280	2442832.47	1976 Feb 23 2320:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W281	2442832.56	1976 Feb 24 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W282	2442832.59	1976 Feb 24 0215:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W283	2442833.22	1976 Feb 24 1721:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W284	2442833.23	1976 Feb 24 1734:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1976-W285	2442833.35	1976 Feb 24 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-W286	2442833.52	1976 Feb 25 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W287	2442833.61	1976 Feb 25 0245:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W288	2442833.94	1976 Feb 25 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W289	2442834.04	1976 Feb 25 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W290	2442834.14	1976 Feb 25 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W291	2442834.16	1976 Feb 25 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1976-W292	2442834.19	1976 Feb 25 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W293	2442834.29	1976 Feb 25 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W294	2442834.35	1976 Feb 25 2024:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	64	-	-
1976-W295	2442834.37	1976 Feb 25 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1976-Y97	2442834.38	1976 Feb 25 2106:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1976-W296	2442834.38	1976 Feb 25 2112:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W297	2442834.40	1976 Feb 25 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	72	-	-
1976-Y98	2442834.56	1976 Feb 26 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W298	2442834.59	1976 Feb 26 0204:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1976-W299	2442834.64	1976 Feb 26 0314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1976-W300	2442835.23	1976 Feb 26 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W301	2442835.37	1976 Feb 26 2057:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W302	2442835.61	1976 Feb 27 0240:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W304	2442835.95	1976 Feb 27 1044:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W305	2442836.07	1976 Feb 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W306	2442836.13	1976 Feb 27 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1976-W307	2442836.19	1976 Feb 27 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W308	2442836.25	1976 Feb 27 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W309	2442836.29	1976 Feb 27 1852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W310	2442836.37	1976 Feb 27 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W311	2442836.41	1976 Feb 27 2152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1976-W312	2442836.42	1976 Feb 27 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W313	2442836.58	1976 Feb 28 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W314	2442836.82	1976 Feb 28 0740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W323	2442837.97	1976 Feb 29 1115:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W324	2442838.73	1976 Mar 1 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1976-W325	2442838.97	1976 Mar 1 1117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W326	2442839.01	1976 Mar 1 1217:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W327	2442839.22	1976 Mar 1 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1976-W328	2442839.24	1976 Mar 1 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W329	2442839.25	1976 Mar 1 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-W330	2442839.27	1976 Mar 1 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1976-W331	2442839.40	1976 Mar 1 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1976-W332	2442839.47	1976 Mar 1 2320:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W333	2442839.65	1976 Mar 2 0332:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-W334	2442839.73	1976 Mar 2 0535:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W335	2442839.96	1976 Mar 2 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W336	2442840.26	1976 Mar 2 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W337	2442840.41	1976 Mar 2 2152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1976-W339	2442841.02	1976 Mar 3 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W340	2442841.18	1976 Mar 3 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1976-W341	2442841.19	1976 Mar 3 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W342	2442841.20	1976 Mar 3 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W343	2442841.20	1976 Mar 3 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W344	2442841.21	1976 Mar 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1976-W345	2442841.24	1976 Mar 3 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W346	2442841.24	1976 Mar 3 1752:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	63	-	-
1976-W347	2442841.26	1976 Mar 3 1813:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1976-W348	2442841.28	1976 Mar 3 1846:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W349	2442841.30	1976 Mar 3 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1976-Y107	2442841.39	1976 Mar 3 2114:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W350	2442841.40	1976 Mar 3 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	76	-	-
1976-W351	2442841.41	1976 Mar 3 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W352	2442841.50	1976 Mar 3 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W353	2442841.59	1976 Mar 4 0204:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W354	2442842.15	1976 Mar 4 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1976-W355	2442842.22	1976 Mar 4 1715:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W356	2442842.40	1976 Mar 4 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W357	2442842.43	1976 Mar 4 2213:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W358	2442842.59	1976 Mar 5 0210:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1976-W360	2442842.94	1976 Mar 5 1030:00	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	64	-	-
1976-W361	2442843.07	1976 Mar 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W362	2442843.15	1976 Mar 5 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W363	2442843.19	1976 Mar 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W364	2442843.19	1976 Mar 5 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1976-W365	2442843.29	1976 Mar 5 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-A13	2442843.41	1976 Mar 5 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1976-A14	2442843.42	1976 Mar 5 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	43	-	-
1976-W366	2442843.95	1976 Mar 6 1044:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W369	2442846.01	1976 Mar 8 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W370	2442846.14	1976 Mar 8 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W371	2442846.17	1976 Mar 8 1607:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W372	2442846.24	1976 Mar 8 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W373	2442846.27	1976 Mar 8 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W374	2442846.29	1976 Mar 8 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	66	-	-
1976-W375	2442846.30	1976 Mar 8 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W376	2442846.39	1976 Mar 8 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-A15	2442846.43	1976 Mar 8 2219:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1976-W377	2442847.04	1976 Mar 9 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W378	2442847.17	1976 Mar 9 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W379	2442847.20	1976 Mar 9 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W380	2442847.33	1976 Mar 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W381	2442848.03	1976 Mar 10 1236:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-A17	2442848.11	1976 Mar 10 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1976-W382	2442848.14	1976 Mar 10 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1976-W383	2442848.15	1976 Mar 10 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W384	2442848.17	1976 Mar 10 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W385	2442848.18	1976 Mar 10 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1976-W386	2442848.19	1976 Mar 10 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1976-W387	2442848.25	1976 Mar 10 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W388	2442848.28	1976 Mar 10 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W389	2442848.41	1976 Mar 10 2156:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W390	2442848.44	1976 Mar 10 2231:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W393	2442848.92	1976 Mar 11 1004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1976-W395	2442849.15	1976 Mar 11 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1976-W396	2442849.19	1976 Mar 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W397	2442849.25	1976 Mar 11 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1976-A18	2442850.03	1976 Mar 12 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	47	-	-
1976-W398	2442850.14	1976 Mar 12 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W399	2442850.15	1976 Mar 12 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W400	2442850.19	1976 Mar 12 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W401	2442850.19	1976 Mar 12 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1976-Y117	2442850.23	1976 Mar 12 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1976-W402	2442850.44	1976 Mar 12 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1976-W403	2442850.49	1976 Mar 12 2349:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W404	2442852.86	1976 Mar 15 0835:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W407	2442853.02	1976 Mar 15 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W408	2442853.12	1976 Mar 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1976-W409	2442853.18	1976 Mar 15 1620:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1976-W410	2442853.19	1976 Mar 15 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W411	2442853.25	1976 Mar 15 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W412	2442853.27	1976 Mar 15 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1976-W413	2442853.40	1976 Mar 15 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W414	2442853.46	1976 Mar 15 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1976-W415	2442854.15	1976 Mar 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W416	2442854.29	1976 Mar 16 1855:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	75	-	-
1976-W417	2442854.33	1976 Mar 16 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1976-W419	2442855.12	1976 Mar 17 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1976-W420	2442855.16	1976 Mar 17 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1976-W421	2442855.19	1976 Mar 17 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1976-W422	2442855.21	1976 Mar 17 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W424	2442855.23	1976 Mar 17 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W425	2442855.23	1976 Mar 17 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	51	-	-
1976-W426	2442855.27	1976 Mar 17 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1976-W427	2442855.30	1976 Mar 17 1915:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W428	2442855.50	1976 Mar 17 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W429	2442855.71	1976 Mar 18 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W430	2442856.16	1976 Mar 18 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-Y128	2442856.40	1976 Mar 18 2138:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W431	2442856.42	1976 Mar 18 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	67	-	-
1976-W432	2442856.84	1976 Mar 19 0815:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1976-W433	2442857.07	1976 Mar 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W434	2442857.10	1976 Mar 19 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W435	2442857.16	1976 Mar 19 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W436	2442857.20	1976 Mar 19 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W437	2442857.21	1976 Mar 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W438	2442857.30	1976 Mar 19 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W439	2442857.32	1976 Mar 19 1933:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W440	2442857.42	1976 Mar 19 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W441	2442857.43	1976 Mar 19 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W442	2442857.67	1976 Mar 20 0359:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W443	2442860.03	1976 Mar 22 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W444	2442860.12	1976 Mar 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W445	2442860.19	1976 Mar 22 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1976-W446	2442860.24	1976 Mar 22 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W447	2442860.24	1976 Mar 22 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1976-W448	2442860.26	1976 Mar 22 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W449	2442860.29	1976 Mar 22 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1976-W450	2442860.29	1976 Mar 22 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W451	2442860.38	1976 Mar 22 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W453	2442860.72	1976 Mar 23 0520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W454	2442861.72	1976 Mar 24 0515:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1976-W455	2442862.07	1976 Mar 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W456	2442862.11	1976 Mar 24 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1976-W457	2442862.14	1976 Mar 24 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1976-W458	2442862.16	1976 Mar 24 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	57	-	-
1976-W459	2442862.17	1976 Mar 24 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1976-W460	2442862.19	1976 Mar 24 1629:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W461	2442862.22	1976 Mar 24 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W462	2442862.27	1976 Mar 24 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W463	2442862.29	1976 Mar 24 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-W464	2442862.39	1976 Mar 24 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-Y135	2442862.39	1976 Mar 24 2122:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W466	2442863.02	1976 Mar 25 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W467	2442863.16	1976 Mar 25 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W468	2442863.21	1976 Mar 25 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W469	2442863.38	1976 Mar 25 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W471	2442863.74	1976 Mar 26 0545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1976-W472	2442864.14	1976 Mar 26 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1976-W473	2442864.15	1976 Mar 26 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W474	2442864.15	1976 Mar 26 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-Y137	2442864.17	1976 Mar 26 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-W475	2442864.19	1976 Mar 26 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W476	2442864.20	1976 Mar 26 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-Y139	2442864.31	1976 Mar 26 1926:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1976-W477	2442864.34	1976 Mar 26 2013:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1976-W478	2442864.40	1976 Mar 26 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W479	2442864.41	1976 Mar 26 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A19	2442866.75	1976 Mar 29 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	48	-	-
1976-W481	2442867.02	1976 Mar 29 1231:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W482	2442867.19	1976 Mar 29 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W483	2442867.23	1976 Mar 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W484	2442867.24	1976 Mar 29 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W485	2442867.25	1976 Mar 29 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1976-W486	2442867.25	1976 Mar 29 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W487	2442867.29	1976 Mar 29 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W488	2442867.30	1976 Mar 29 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1976-W489	2442867.35	1976 Mar 29 2017:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1976-W491	2442868.19	1976 Mar 30 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W494	2442868.81	1976 Mar 31 0730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W495	2442869.07	1976 Mar 31 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1976-A20	2442869.16	1976 Mar 31 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1976-W496	2442869.17	1976 Mar 31 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W497	2442869.19	1976 Mar 31 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W498	2442869.19	1976 Mar 31 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1976-W499	2442869.23	1976 Mar 31 1726:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-Y147	2442869.24	1976 Mar 31 1744:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1976-W500	2442869.25	1976 Mar 31 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W501	2442869.45	1976 Mar 31 2252:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W502	2442870.23	1976 Apr 1 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W503	2442870.42	1976 Apr 1 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W504	2442871.07	1976 Apr 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1976-W505	2442871.07	1976 Apr 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W506	2442871.10	1976 Apr 2 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1976-W507	2442871.14	1976 Apr 2 1517:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1976-W509	2442871.19	1976 Apr 2 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1976-W510	2442871.29	1976 Apr 2 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-Y150	2442871.37	1976 Apr 2 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1976-W511	2442871.39	1976 Apr 2 2115:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W512	2442871.39	1976 Apr 2 2118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	73	-	-
1976-W513	2442871.42	1976 Apr 2 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1976-W514	2442874.02	1976 Apr 5 1234:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W515	2442874.24	1976 Apr 5 1742:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W516	2442874.26	1976 Apr 5 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W517	2442874.29	1976 Apr 5 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1976-W518	2442874.33	1976 Apr 5 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W519	2442874.48	1976 Apr 5 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W520	2442875.20	1976 Apr 6 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W521	2442875.42	1976 Apr 6 2210:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W522	2442876.07	1976 Apr 7 1334:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1976-W523	2442876.07	1976 Apr 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W524	2442876.18	1976 Apr 7 1617:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W525	2442876.19	1976 Apr 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W527	2442876.21	1976 Apr 7 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-Y158	2442876.21	1976 Apr 7 1707:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1976-W528	2442876.22	1976 Apr 7 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1976-W529	2442876.23	1976 Apr 7 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1976-W530	2442876.38	1976 Apr 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1976-W531	2442876.44	1976 Apr 7 2229:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1976-W532	2442876.56	1976 Apr 8 0125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W533	2442878.03	1976 Apr 9 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W534	2442878.15	1976 Apr 9 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1976-W535	2442878.17	1976 Apr 9 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	75	-	-
1976-W536	2442878.19	1976 Apr 9 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W538	2442878.20	1976 Apr 9 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W539	2442878.25	1976 Apr 9 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1976-W540	2442878.26	1976 Apr 9 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W541	2442878.34	1976 Apr 9 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W542	2442878.40	1976 Apr 9 2142:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W543	2442881.12	1976 Apr 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1976-W544	2442881.16	1976 Apr 12 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1976-W545	2442881.16	1976 Apr 12 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W547	2442881.22	1976 Apr 12 1713:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W548	2442881.26	1976 Apr 12 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1976-W549	2442881.29	1976 Apr 12 1852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W550	2442881.33	1976 Apr 12 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W551	2442881.40	1976 Apr 12 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-A21	2442881.44	1976 Apr 12 2229:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1976-W552	2442881.50	1976 Apr 13 0006:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1976-W553	2442881.99	1976 Apr 13 1144:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W554	2442882.14	1976 Apr 13 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1976-W556	2442883.03	1976 Apr 14 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W557	2442883.06	1976 Apr 14 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1976-W558	2442883.14	1976 Apr 14 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W559	2442883.16	1976 Apr 14 1544:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1976-W560	2442883.19	1976 Apr 14 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W561	2442883.19	1976 Apr 14 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1976-W564	2442883.22	1976 Apr 14 1722:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-Y171	2442883.23	1976 Apr 14 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	94	-	-
1976-W565	2442883.27	1976 Apr 14 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W566	2442883.35	1976 Apr 14 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W567	2442883.38	1976 Apr 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-Y172	2442883.38	1976 Apr 14 2111:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1976-W568	2442883.40	1976 Apr 14 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W569	2442883.58	1976 Apr 15 0154:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W570	2442884.01	1976 Apr 15 1210:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W571	2442884.19	1976 Apr 15 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W572	2442884.21	1976 Apr 15 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1976-W573	2442885.11	1976 Apr 16 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1976-W574	2442885.15	1976 Apr 16 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1976-W575	2442885.16	1976 Apr 16 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1976-W576	2442885.19	1976 Apr 16 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W577	2442885.28	1976 Apr 16 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W578	2442885.41	1976 Apr 16 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-Y175	2442885.50	1976 Apr 16 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W579	2442888.04	1976 Apr 19 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W580	2442888.18	1976 Apr 19 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W581	2442888.19	1976 Apr 19 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1976-W582	2442888.26	1976 Apr 19 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W583	2442888.28	1976 Apr 19 1842:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1976-W584	2442888.35	1976 Apr 19 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W585	2442888.41	1976 Apr 19 2148:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W586	2442888.54	1976 Apr 20 0055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1976-W588	2442889.20	1976 Apr 20 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-W590	2442890.06	1976 Apr 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W591	2442890.16	1976 Apr 21 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-W592	2442890.20	1976 Apr 21 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W593	2442890.21	1976 Apr 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W594	2442890.22	1976 Apr 21 1723:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W595	2442890.23	1976 Apr 21 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-Y182	2442890.25	1976 Apr 21 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	99	-	-
1976-W596	2442890.30	1976 Apr 21 1906:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1976-W597	2442890.38	1976 Apr 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W598	2442890.38	1976 Apr 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-Y183	2442890.41	1976 Apr 21 2149:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W599	2442890.43	1976 Apr 21 2220:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	68	-	-
1976-W600	2442890.55	1976 Apr 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W601	2442891.02	1976 Apr 22 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W602	2442891.17	1976 Apr 22 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W603	2442891.25	1976 Apr 22 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W604	2442891.38	1976 Apr 22 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W605	2442891.39	1976 Apr 22 2123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W606	2442892.12	1976 Apr 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W607	2442892.13	1976 Apr 23 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W608	2442892.16	1976 Apr 23 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W609	2442892.21	1976 Apr 23 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1976-W610	2442892.22	1976 Apr 23 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-Y185	2442892.50	1976 Apr 24 0002:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W612	2442895.12	1976 Apr 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1976-W613	2442895.12	1976 Apr 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W614	2442895.15	1976 Apr 26 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1976-W615	2442895.19	1976 Apr 26 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W616	2442895.24	1976 Apr 26 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1976-W617	2442895.32	1976 Apr 26 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W618	2442895.38	1976 Apr 26 2103:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W619	2442895.41	1976 Apr 26 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-Y186	2442895.47	1976 Apr 26 2319:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W621	2442896.23	1976 Apr 27 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W623	2442897.07	1976 Apr 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W624	2442897.07	1976 Apr 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W625	2442897.11	1976 Apr 28 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-Y190	2442897.12	1976 Apr 28 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	97	-	-
1976-W626	2442897.15	1976 Apr 28 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W627	2442897.16	1976 Apr 28 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1976-W628	2442897.19	1976 Apr 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W629	2442897.19	1976 Apr 28 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W630	2442897.31	1976 Apr 28 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-Y192	2442897.37	1976 Apr 28 2059:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W631	2442897.39	1976 Apr 28 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	75	-	-
1976-W632	2442897.42	1976 Apr 28 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W633	2442897.51	1976 Apr 29 0011:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W635	2442898.03	1976 Apr 29 1237:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W636	2442898.16	1976 Apr 29 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W637	2442898.20	1976 Apr 29 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W638	2442898.26	1976 Apr 29 1815:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W639	2442898.38	1976 Apr 29 2113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1976-W648	2442899.12	1976 Apr 30 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W649	2442899.14	1976 Apr 30 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W650	2442899.15	1976 Apr 30 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W651	2442899.15	1976 Apr 30 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W652	2442899.18	1976 Apr 30 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-W653	2442899.23	1976 Apr 30 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W655	2442899.29	1976 Apr 30 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1976-W656	2442899.55	1976 May 1 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W657	2442900.17	1976 May 1 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W659	2442902.13	1976 May 3 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	76	-	-
1976-A25	2442902.15	1976 May 3 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	48	-	-
1976-W660	2442902.17	1976 May 3 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W661	2442902.19	1976 May 3 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W662	2442902.19	1976 May 3 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W663	2442902.19	1976 May 3 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W665	2442902.23	1976 May 3 1724:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1976-W666	2442902.23	1976 May 3 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1976-W667	2442902.34	1976 May 3 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W668	2442902.41	1976 May 3 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-Y195	2442902.56	1976 May 4 0122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W669	2442902.99	1976 May 4 1144:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W670	2442903.05	1976 May 4 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W671	2442903.12	1976 May 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W672	2442903.25	1976 May 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W673	2442904.08	1976 May 5 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1976-W674	2442904.08	1976 May 5 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1976-W675	2442904.09	1976 May 5 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W676	2442904.10	1976 May 5 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1976-W678	2442904.15	1976 May 5 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	74	-	-
1976-W679	2442904.18	1976 May 5 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-W680	2442904.20	1976 May 5 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W681	2442904.20	1976 May 5 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1976-W682	2442904.24	1976 May 5 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1976-W683	2442904.26	1976 May 5 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W684	2442904.28	1976 May 5 1844:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1976-Y201	2442904.35	1976 May 5 2021:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1976-Y202	2442904.41	1976 May 5 2153:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W685	2442904.43	1976 May 5 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	68	-	-
1976-W686	2442904.50	1976 May 6 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W687	2442905.17	1976 May 6 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W688	2442905.21	1976 May 6 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W689	2442906.05	1976 May 7 1309:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W690	2442906.05	1976 May 7 1311:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1976-W691	2442906.16	1976 May 7 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	75	-	-
1976-A27	2442906.18	1976 May 7 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	0	-	-
1976-W692	2442906.18	1976 May 7 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W693	2442906.19	1976 May 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1976-W695	2442906.23	1976 May 7 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1976-W696	2442906.32	1976 May 7 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W697	2442906.42	1976 May 7 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W698	2442906.51	1976 May 8 0010:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W699	2442907.19	1976 May 8 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W700	2442908.19	1976 May 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W701	2442909.07	1976 May 10 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1976-W702	2442909.09	1976 May 10 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	50	-	-
1976-W703	2442909.10	1976 May 10 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W704	2442909.18	1976 May 10 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W706	2442909.19	1976 May 10 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1976-W707	2442909.23	1976 May 10 1734:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W708	2442909.25	1976 May 10 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1976-W709	2442909.43	1976 May 10 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W710	2442909.44	1976 May 10 2235:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1976-A28	2442909.71	1976 May 11 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	48	-	-
1976-A29	2442909.99	1976 May 11 1144:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	0	-	-
1976-W712	2442910.22	1976 May 11 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W714	2442911.03	1976 May 12 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W715	2442911.08	1976 May 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	54	-	-
1976-W716	2442911.10	1976 May 12 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W717	2442911.12	1976 May 12 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1976-W718	2442911.14	1976 May 12 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W719	2442911.18	1976 May 12 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W720	2442911.21	1976 May 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W722	2442911.22	1976 May 12 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W723	2442911.35	1976 May 12 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1976-W724	2442911.40	1976 May 12 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1976-W725	2442911.55	1976 May 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W726	2442912.02	1976 May 13 1222:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W727	2442912.25	1976 May 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-Y209	2442912.37	1976 May 13 2047:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1976-W728	2442912.38	1976 May 13 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	78	-	-
1976-W729	2442913.11	1976 May 14 1444:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W730	2442913.12	1976 May 14 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W731	2442913.16	1976 May 14 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W732	2442913.20	1976 May 14 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W734	2442913.30	1976 May 14 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1976-W735	2442913.54	1976 May 15 0051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W736	2442916.04	1976 May 17 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W737	2442916.09	1976 May 17 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W738	2442916.15	1976 May 17 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1976-W739	2442916.17	1976 May 17 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1976-W741	2442916.21	1976 May 17 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1976-W742	2442916.23	1976 May 17 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1976-W743	2442916.23	1976 May 17 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W744	2442916.27	1976 May 17 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W745	2442916.35	1976 May 17 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1976-W746	2442916.41	1976 May 17 2153:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W747	2442916.86	1976 May 18 0840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W748	2442916.92	1976 May 18 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W750	2442917.40	1976 May 18 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W752	2442918.07	1976 May 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A30	2442918.11	1976 May 19 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	39	-	-
1976-W754	2442918.11	1976 May 19 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W755	2442918.15	1976 May 19 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W756	2442918.18	1976 May 19 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W757	2442918.20	1976 May 19 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W759	2442918.24	1976 May 19 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W760	2442918.25	1976 May 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-Y215	2442918.25	1976 May 19 1802:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1976-W761	2442918.28	1976 May 19 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1976-W762	2442918.32	1976 May 19 1936:59	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	WI	-	-	-	67	-	-
1976-Y216	2442918.40	1976 May 19 2133:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1976-W764	2442918.42	1976 May 19 2200:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	74	-	-
1976-W765	2442918.54	1976 May 20 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W766	2442918.55	1976 May 20 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W767	2442919.02	1976 May 20 1230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W769	2442919.26	1976 May 20 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W770	2442919.40	1976 May 20 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1976-W771	2442920.12	1976 May 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W772	2442920.17	1976 May 21 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W774	2442920.18	1976 May 21 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1976-W775	2442920.19	1976 May 21 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-Y220	2442920.21	1976 May 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1976-W776	2442920.31	1976 May 21 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W777	2442920.52	1976 May 22 0035:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W778	2442921.83	1976 May 23 0800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-W779	2442922.00	1976 May 23 1204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W780	2442923.09	1976 May 24 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1976-W781	2442923.17	1976 May 24 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W782	2442923.17	1976 May 24 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1976-W783	2442923.18	1976 May 24 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W784	2442923.21	1976 May 24 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W785	2442923.23	1976 May 24 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W786	2442923.37	1976 May 24 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-A32	2442923.38	1976 May 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	49	-	-
1976-Y222	2442923.48	1976 May 24 2334:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W788	2442924.15	1976 May 25 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W789	2442924.49	1976 May 25 2340:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W790	2442925.07	1976 May 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W791	2442925.07	1976 May 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W792	2442925.11	1976 May 26 1434:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-W793	2442925.12	1976 May 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W794	2442925.14	1976 May 26 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1976-W795	2442925.15	1976 May 26 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-Y228	2442925.17	1976 May 26 1606:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1976-W796	2442925.18	1976 May 26 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W797	2442925.24	1976 May 26 1744:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1976-W798	2442925.26	1976 May 26 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1976-W799	2442925.28	1976 May 26 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-Y229	2442925.51	1976 May 27 0014:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W801	2442926.02	1976 May 27 1230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W802	2442926.23	1976 May 27 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W803	2442926.40	1976 May 27 2135:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1976-W804	2442927.04	1976 May 28 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W805	2442927.10	1976 May 28 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1976-Y231	2442927.12	1976 May 28 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	93	-	-
1976-W806	2442927.14	1976 May 28 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W808	2442927.18	1976 May 28 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W809	2442927.33	1976 May 28 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1976-Y232	2442927.38	1976 May 28 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1976-W810	2442927.40	1976 May 28 2131:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W811	2442927.55	1976 May 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W817	2442930.17	1976 May 31 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W818	2442931.05	1976 Jun 1 1307:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1976-W819	2442931.11	1976 Jun 1 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1976-W820	2442931.16	1976 Jun 1 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W821	2442931.16	1976 Jun 1 1554:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1976-W822	2442931.19	1976 Jun 1 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1976-W823	2442931.20	1976 Jun 1 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W824	2442931.33	1976 Jun 1 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1976-W825	2442932.05	1976 Jun 2 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1976-W826	2442932.07	1976 Jun 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W827	2442932.09	1976 Jun 2 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W828	2442932.12	1976 Jun 2 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1976-Y238	2442932.14	1976 Jun 2 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-W829	2442932.14	1976 Jun 2 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W830	2442932.14	1976 Jun 2 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W832	2442932.16	1976 Jun 2 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W833	2442932.16	1976 Jun 2 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W834	2442932.17	1976 Jun 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1976-W835	2442932.22	1976 Jun 2 1712:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W836	2442932.31	1976 Jun 2 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1976-W837	2442932.44	1976 Jun 2 2235:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W838	2442933.14	1976 Jun 3 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1976-W839	2442933.44	1976 Jun 3 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1976-Y239	2442933.51	1976 Jun 4 0020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W840	2442934.03	1976 Jun 4 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W841	2442934.10	1976 Jun 4 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W842	2442934.17	1976 Jun 4 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W843	2442934.17	1976 Jun 4 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1976-W844	2442934.23	1976 Jun 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W845	2442937.11	1976 Jun 7 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W846	2442937.12	1976 Jun 7 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1976-W847	2442937.15	1976 Jun 7 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W848	2442937.23	1976 Jun 7 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W849	2442937.48	1976 Jun 7 2337:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W850	2442938.23	1976 Jun 8 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W853	2442939.04	1976 Jun 9 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W854	2442939.06	1976 Jun 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W855	2442939.13	1976 Jun 9 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-W857	2442939.21	1976 Jun 9 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1976-W858	2442939.21	1976 Jun 9 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W859	2442939.23	1976 Jun 9 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W860	2442939.29	1976 Jun 9 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1976-Y243	2442939.47	1976 Jun 9 2311:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1976-W861	2442939.48	1976 Jun 9 2337:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W862	2442939.51	1976 Jun 10 0011:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W863	2442941.07	1976 Jun 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1976-W864	2442941.07	1976 Jun 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W865	2442941.11	1976 Jun 11 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W866	2442941.15	1976 Jun 11 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-Y244	2442941.16	1976 Jun 11 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-W867	2442941.18	1976 Jun 11 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W868	2442941.19	1976 Jun 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W869	2442941.20	1976 Jun 11 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	54	-	-
1976-W870	2442944.04	1976 Jun 14 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W871	2442944.11	1976 Jun 14 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1976-W872	2442944.18	1976 Jun 14 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1976-W873	2442944.21	1976 Jun 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	50	-	-
1976-W874	2442944.49	1976 Jun 14 2338:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W876	2442945.40	1976 Jun 15 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1976-A34	2442946.10	1976 Jun 16 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	0	-	-
1976-W878	2442946.12	1976 Jun 16 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W880	2442946.13	1976 Jun 16 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-Y247	2442946.15	1976 Jun 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1976-W881	2442946.15	1976 Jun 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1976-W882	2442946.21	1976 Jun 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W884	2442946.28	1976 Jun 16 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W885	2442946.42	1976 Jun 16 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W886	2442946.51	1976 Jun 17 0012:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W888	2442947.03	1976 Jun 17 1238:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W889	2442947.18	1976 Jun 17 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W890	2442947.22	1976 Jun 17 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-Y248	2442947.38	1976 Jun 17 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1976-W891	2442947.39	1976 Jun 17 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1976-Y249	2442947.52	1976 Jun 18 0034:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W892	2442948.18	1976 Jun 18 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W893	2442951.08	1976 Jun 21 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-W894	2442951.09	1976 Jun 21 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W896	2442951.17	1976 Jun 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W897	2442951.21	1976 Jun 21 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1976-W898	2442951.23	1976 Jun 21 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W899	2442951.47	1976 Jun 21 2317:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W900	2442952.40	1976 Jun 22 2142:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1976-A35	2442953.07	1976 Jun 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	45	-	-
1976-W901	2442953.09	1976 Jun 23 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W903	2442953.15	1976 Jun 23 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W904	2442953.15	1976 Jun 23 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W905	2442953.16	1976 Jun 23 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1976-W907	2442953.17	1976 Jun 23 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1976-W909	2442953.27	1976 Jun 23 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-Y254	2442953.38	1976 Jun 23 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1976-W910	2442953.39	1976 Jun 23 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W911	2442953.39	1976 Jun 23 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-Y255	2442953.55	1976 Jun 24 0117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W912	2442954.07	1976 Jun 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1976-W913	2442954.20	1976 Jun 24 1641:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W914	2442954.31	1976 Jun 24 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W915	2442954.40	1976 Jun 24 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W916	2442955.09	1976 Jun 25 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W917	2442955.10	1976 Jun 25 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W918	2442955.41	1976 Jun 25 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-A36	2442958.15	1976 Jun 28 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1976-W920	2442958.21	1976 Jun 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W921	2442958.38	1976 Jun 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1976-A37	2442958.41	1976 Jun 28 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1976-Y260	2442958.50	1976 Jun 28 2356:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W922	2442958.97	1976 Jun 29 1115:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1976-W923	2442959.10	1976 Jun 29 1426:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1976-W925	2442959.13	1976 Jun 29 1511:59	Rocketsonde	-	-	Starute,Exp. Sonde	-	-	-	WI	-	-	-	68	-	-
1976-W926	2442959.18	1976 Jun 29 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1976-W927	2442959.25	1976 Jun 29 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1976-W928	2442960.12	1976 Jun 30 1446:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-Y264	2442960.17	1976 Jun 30 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1976-A38	2442960.21	1976 Jun 30 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	49	-	-
1976-W930	2442960.25	1976 Jun 30 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1976-W931	2442960.29	1976 Jun 30 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W932	2442960.30	1976 Jun 30 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1976-W933	2442960.39	1976 Jun 30 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W934	2442961.16	1976 Jul 1 1545:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W935	2442961.21	1976 Jul 1 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W936	2442961.39	1976 Jul 1 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W937	2442962.07	1976 Jul 2 1347:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W938	2442962.08	1976 Jul 2 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-W939	2442962.11	1976 Jul 2 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W940	2442962.13	1976 Jul 2 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-Y267	2442962.29	1976 Jul 2 1857:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1976-W941	2442962.31	1976 Jul 2 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1976-W942	2442965.14	1976 Jul 5 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W943	2442966.16	1976 Jul 6 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1976-W944	2442966.27	1976 Jul 6 1830:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W945	2442966.40	1976 Jul 6 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W946	2442966.59	1976 Jul 7 0203:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W947	2442967.03	1976 Jul 7 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W948	2442967.05	1976 Jul 7 1313:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W949	2442967.06	1976 Jul 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W950	2442967.14	1976 Jul 7 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W952	2442967.21	1976 Jul 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1976-Y272	2442967.22	1976 Jul 7 1722:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1976-Y273	2442967.26	1976 Jul 7 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W953	2442967.27	1976 Jul 7 1830:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-Y274	2442967.40	1976 Jul 7 2132:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	83	-	-
1976-W954	2442967.42	1976 Jul 7 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1976-W955	2442967.55	1976 Jul 8 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W956	2442968.18	1976 Jul 8 1619:59	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W957	2442968.40	1976 Jul 8 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W958	2442969.07	1976 Jul 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W959	2442969.10	1976 Jul 9 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W960	2442969.10	1976 Jul 9 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1976-W961	2442969.10	1976 Jul 9 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W963	2442969.21	1976 Jul 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-A39	2442969.36	1976 Jul 9 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1976-W964	2442969.55	1976 Jul 10 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W965	2442972.04	1976 Jul 12 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W966	2442972.10	1976 Jul 12 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1976-W967	2442972.12	1976 Jul 12 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1976-W968	2442972.14	1976 Jul 12 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1976-W970	2442972.20	1976 Jul 12 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W971	2442972.23	1976 Jul 12 1733:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-W972	2442972.30	1976 Jul 12 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-A40	2442972.39	1976 Jul 12 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1976-W973	2442972.42	1976 Jul 12 2206:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W974	2442972.52	1976 Jul 13 0025:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W975	2442974.08	1976 Jul 14 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	76	-	-
1976-W976	2442974.10	1976 Jul 14 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	60	-	-
1976-Y282	2442974.17	1976 Jul 14 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1976-W977	2442974.17	1976 Jul 14 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1976-W979	2442974.19	1976 Jul 14 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W980	2442974.21	1976 Jul 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W982	2442974.28	1976 Jul 14 1842:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W983	2442974.30	1976 Jul 14 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1976-W984	2442974.38	1976 Jul 14 2107:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	59	-	-
1976-W985	2442974.39	1976 Jul 14 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1976-A42	2442974.39	1976 Jul 14 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1976-Y284	2442974.51	1976 Jul 15 0013:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	83	-	-
1976-W986	2442975.26	1976 Jul 15 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W987	2442975.37	1976 Jul 15 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W988	2442976.01	1976 Jul 16 1210:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W989	2442976.10	1976 Jul 16 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1976-W990	2442976.12	1976 Jul 16 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-A43	2442976.40	1976 Jul 16 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1976-Y285	2442976.44	1976 Jul 16 2237:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1976-Y287	2442976.57	1976 Jul 17 0138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	83	-	-
1977-W14	2443147.22	1977 Jan 3 1717:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-A01	2443147.25	1977 Jan 3 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	48	-	-
1977-W15	2443147.27	1977 Jan 3 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W16	2443147.35	1977 Jan 3 2019:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W17	2443147.51	1977 Jan 4 0009:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-A02	2443147.55	1977 Jan 4 0108:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1977-W18	2443148.02	1977 Jan 4 1232:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1977-W20	2443148.19	1977 Jan 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1977-W21	2443148.20	1977 Jan 4 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W22	2443148.23	1977 Jan 4 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1977-W23	2443148.35	1977 Jan 4 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	53	-	-
1977-W24	2443148.40	1977 Jan 4 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W25	2443148.40	1977 Jan 4 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1977-W29	2443149.07	1977 Jan 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W30	2443149.09	1977 Jan 5 1414:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1977-W31	2443149.10	1977 Jan 5 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W32	2443149.10	1977 Jan 5 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W33	2443149.12	1977 Jan 5 1500:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	53	-	-
1977-W34	2443149.15	1977 Jan 5 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1977-Y11	2443149.21	1977 Jan 5 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W36	2443149.22	1977 Jan 5 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W37	2443149.22	1977 Jan 5 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1977-W38	2443149.31	1977 Jan 5 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	55	-	-
1977-W39	2443149.33	1977 Jan 5 1952:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W40	2443149.39	1977 Jan 5 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W41	2443149.58	1977 Jan 6 0200:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1977-W42	2443150.10	1977 Jan 6 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1977-W43	2443150.14	1977 Jan 6 1524:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	71	-	-
1977-W44	2443150.16	1977 Jan 6 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W45	2443150.29	1977 Jan 6 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1977-W47	2443151.15	1977 Jan 7 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W48	2443151.21	1977 Jan 7 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W49	2443151.28	1977 Jan 7 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W50	2443151.36	1977 Jan 7 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1977-W51	2443151.38	1977 Jan 7 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1977-W52	2443151.39	1977 Jan 7 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W53	2443152.21	1977 Jan 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W54	2443152.25	1977 Jan 8 1754:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	64	-	-
1977-W55	2443152.40	1977 Jan 8 2132:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	67	-	-
1977-W56	2443152.40	1977 Jan 8 2142:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W57	2443154.02	1977 Jan 10 1229:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W58	2443154.11	1977 Jan 10 1437:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W59	2443154.19	1977 Jan 10 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1977-W60	2443154.21	1977 Jan 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W61	2443154.22	1977 Jan 10 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W62	2443154.29	1977 Jan 10 1902:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W63	2443154.35	1977 Jan 10 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1977-W64	2443154.51	1977 Jan 11 0008:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-A03	2443154.54	1977 Jan 11 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1977-W65	2443155.15	1977 Jan 11 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W66	2443155.19	1977 Jan 11 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1977-W67	2443155.22	1977 Jan 11 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1977-W68	2443155.37	1977 Jan 11 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W72	2443156.04	1977 Jan 12 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W73	2443156.14	1977 Jan 12 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W74	2443156.14	1977 Jan 12 1524:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1977-Y16	2443156.16	1977 Jan 12 1545:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	93	-	-
1977-W75	2443156.17	1977 Jan 12 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W76	2443156.19	1977 Jan 12 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1977-Y17	2443156.21	1977 Jan 12 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W77	2443156.21	1977 Jan 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W78	2443156.24	1977 Jan 12 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1977-Y18	2443156.29	1977 Jan 12 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W79	2443156.30	1977 Jan 12 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W80	2443156.34	1977 Jan 12 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1977-W82	2443156.54	1977 Jan 13 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	77	-	-
1977-W83	2443156.55	1977 Jan 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W84	2443157.12	1977 Jan 13 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1977-W85	2443157.20	1977 Jan 13 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W86	2443157.40	1977 Jan 13 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-A04	2443158.06	1977 Jan 14 1319:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	49	-	-
1977-W87	2443158.07	1977 Jan 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W88	2443158.14	1977 Jan 14 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W89	2443158.17	1977 Jan 14 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W90	2443158.19	1977 Jan 14 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-W92	2443158.21	1977 Jan 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W93	2443158.23	1977 Jan 14 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W94	2443158.35	1977 Jan 14 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1977-W95	2443158.39	1977 Jan 14 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W96	2443159.06	1977 Jan 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1977-W97	2443161.10	1977 Jan 17 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W98	2443161.17	1977 Jan 17 1600:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W99	2443161.19	1977 Jan 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1977-W100	2443161.20	1977 Jan 17 1644:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W102	2443161.21	1977 Jan 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1977-W103	2443161.31	1977 Jan 17 1930:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W104	2443161.34	1977 Jan 17 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1977-W105	2443161.36	1977 Jan 17 2037:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1977-W106	2443161.48	1977 Jan 17 2334:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-Y20	2443161.59	1977 Jan 18 0210:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	86	-	-
1977-W107	2443162.02	1977 Jan 18 1224:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W108	2443162.17	1977 Jan 18 1607:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W109	2443162.20	1977 Jan 18 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W110	2443162.20	1977 Jan 18 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W111	2443162.22	1977 Jan 18 1711:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	70	-	-
1977-W112	2443162.26	1977 Jan 18 1810:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	69	-	-
1977-W113	2443162.31	1977 Jan 18 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W114	2443162.33	1977 Jan 18 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1977-W115	2443162.44	1977 Jan 18 2231:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-Y23	2443162.50	1977 Jan 19 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-Y24	2443162.56	1977 Jan 19 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	100	-	-
1977-W116	2443163.07	1977 Jan 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-Y27	2443163.12	1977 Jan 19 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1977-W117	2443163.14	1977 Jan 19 1522:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-A06	2443163.17	1977 Jan 19 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1977-W119	2443163.19	1977 Jan 19 1633:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1977-W120	2443163.19	1977 Jan 19 1634:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	70	-	-
1977-W121	2443163.21	1977 Jan 19 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1977-W124	2443163.23	1977 Jan 19 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W125	2443163.26	1977 Jan 19 1809:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-Y28	2443163.26	1977 Jan 19 1821:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1977-Y29	2443163.34	1977 Jan 19 2004:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W126	2443163.34	1977 Jan 19 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1977-W127	2443163.38	1977 Jan 19 2107:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1977-W128	2443163.40	1977 Jan 19 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W129	2443163.40	1977 Jan 19 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W130	2443163.41	1977 Jan 19 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W131	2443163.54	1977 Jan 20 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	66	-	-
1977-W132	2443164.03	1977 Jan 20 1237:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W133	2443164.12	1977 Jan 20 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W134	2443164.14	1977 Jan 20 1520:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1977-W136	2443164.23	1977 Jan 20 1725:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W137	2443164.31	1977 Jan 20 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W138	2443164.47	1977 Jan 20 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W140	2443165.09	1977 Jan 21 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W141	2443165.14	1977 Jan 21 1514:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W142	2443165.16	1977 Jan 21 1545:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W144	2443165.17	1977 Jan 21 1559:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W145	2443165.17	1977 Jan 21 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1977-W146	2443165.21	1977 Jan 21 1709:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1977-A07	2443165.29	1977 Jan 21 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	48	-	-
1977-W147	2443165.31	1977 Jan 21 1929:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W148	2443165.36	1977 Jan 21 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1977-W149	2443165.46	1977 Jan 21 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1977-W150	2443165.55	1977 Jan 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W151	2443166.15	1977 Jan 22 1530:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W152	2443166.20	1977 Jan 22 1654:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W153	2443166.21	1977 Jan 22 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W154	2443166.42	1977 Jan 22 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	58	-	-
1977-W155	2443166.47	1977 Jan 22 2310:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	69	-	-
1977-W156	2443166.47	1977 Jan 22 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W158	2443167.16	1977 Jan 23 1546:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W159	2443167.21	1977 Jan 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W160	2443167.25	1977 Jan 23 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1977-W161	2443167.42	1977 Jan 23 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1977-W162	2443167.47	1977 Jan 23 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W163	2443167.50	1977 Jan 24 0000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1977-W164	2443168.10	1977 Jan 24 1430:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	68	-	-
1977-W165	2443168.11	1977 Jan 24 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W166	2443168.15	1977 Jan 24 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	67	-	-
1977-W167	2443168.15	1977 Jan 24 1541:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W168	2443168.17	1977 Jan 24 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1977-W169	2443168.19	1977 Jan 24 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1977-W170	2443168.21	1977 Jan 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W171	2443168.25	1977 Jan 24 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W172	2443168.46	1977 Jan 24 2256:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W173	2443168.46	1977 Jan 24 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1977-W174	2443168.50	1977 Jan 25 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	73	-	-
1977-W175	2443169.02	1977 Jan 25 1234:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W176	2443169.14	1977 Jan 25 1514:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W177	2443169.21	1977 Jan 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W178	2443169.35	1977 Jan 25 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1977-W179	2443169.47	1977 Jan 25 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W180	2443170.07	1977 Jan 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1977-W181	2443170.10	1977 Jan 26 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1977-W182	2443170.15	1977 Jan 26 1530:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W183	2443170.15	1977 Jan 26 1542:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	67	-	-
1977-W185	2443170.21	1977 Jan 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W186	2443170.32	1977 Jan 26 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1977-Y38	2443170.36	1977 Jan 26 2036:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W187	2443170.37	1977 Jan 26 2047:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W188	2443170.40	1977 Jan 26 2133:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W189	2443170.41	1977 Jan 26 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W190	2443170.58	1977 Jan 27 0200:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W191	2443171.14	1977 Jan 27 1514:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W192	2443171.14	1977 Jan 27 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W193	2443171.17	1977 Jan 27 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W194	2443171.19	1977 Jan 27 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1977-W195	2443171.25	1977 Jan 27 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W196	2443171.32	1977 Jan 27 1942:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W197	2443171.36	1977 Jan 27 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	75	-	-
1977-W198	2443171.40	1977 Jan 27 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W199	2443171.58	1977 Jan 28 0200:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W200	2443172.07	1977 Jan 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1977-W201	2443172.12	1977 Jan 28 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W203	2443172.17	1977 Jan 28 1559:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W204	2443172.17	1977 Jan 28 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1977-W205	2443172.18	1977 Jan 28 1623:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	69	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W206	2443172.19	1977 Jan 28 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1977-W207	2443172.25	1977 Jan 28 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W208	2443172.32	1977 Jan 28 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	73	-	-
1977-W209	2443172.36	1977 Jan 28 2041:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1977-W210	2443172.38	1977 Jan 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	73	-	-
1977-W211	2443172.42	1977 Jan 28 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	57	-	-
1977-W212	2443172.48	1977 Jan 28 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W213	2443172.50	1977 Jan 29 0001:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	60	-	-
1977-W214	2443173.16	1977 Jan 29 1544:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1977-W215	2443173.21	1977 Jan 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W216	2443173.25	1977 Jan 29 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1977-W217	2443173.42	1977 Jan 29 2207:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	50	-	-
1977-W218	2443173.47	1977 Jan 29 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W219	2443173.48	1977 Jan 29 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1977-W220	2443174.15	1977 Jan 30 1536:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W221	2443174.21	1977 Jan 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W222	2443174.25	1977 Jan 30 1800:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W223	2443174.42	1977 Jan 30 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	53	-	-
1977-W224	2443174.47	1977 Jan 30 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W235	2443175.08	1977 Jan 31 1400:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W236	2443175.11	1977 Jan 31 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1977-W238	2443175.19	1977 Jan 31 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1977-W239	2443175.19	1977 Jan 31 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W240	2443175.21	1977 Jan 31 1700:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W241	2443175.23	1977 Jan 31 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W242	2443175.27	1977 Jan 31 1830:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W243	2443175.32	1977 Jan 31 1940:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	58	-	-
1977-W244	2443175.46	1977 Jan 31 2303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W245	2443176.19	1977 Feb 1 1626:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1977-W246	2443176.21	1977 Feb 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W247	2443176.29	1977 Feb 1 1859:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W248	2443176.37	1977 Feb 1 2048:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1977-W249	2443176.40	1977 Feb 1 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W250	2443176.42	1977 Feb 1 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1977-W252	2443177.02	1977 Feb 2 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W253	2443177.07	1977 Feb 2 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	77	-	-
1977-W254	2443177.10	1977 Feb 2 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1977-W255	2443177.17	1977 Feb 2 1601:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W256	2443177.19	1977 Feb 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W257	2443177.21	1977 Feb 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W258	2443177.21	1977 Feb 2 1702:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-Y44	2443177.25	1977 Feb 2 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W259	2443177.44	1977 Feb 2 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	73	-	-
1977-W260	2443177.49	1977 Feb 2 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W261	2443177.54	1977 Feb 3 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W262	2443177.67	1977 Feb 3 0359:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W263	2443178.14	1977 Feb 3 1526:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W264	2443178.19	1977 Feb 3 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1977-W265	2443178.21	1977 Feb 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W266	2443178.21	1977 Feb 3 1700:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W267	2443178.31	1977 Feb 3 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1977-W268	2443178.40	1977 Feb 3 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	69	-	-
1977-W269	2443178.52	1977 Feb 4 0024:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W270	2443178.58	1977 Feb 4 0148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W271	2443179.02	1977 Feb 4 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W272	2443179.11	1977 Feb 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W273	2443179.16	1977 Feb 4 1545:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W274	2443179.19	1977 Feb 4 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W275	2443179.19	1977 Feb 4 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W276	2443179.20	1977 Feb 4 1649:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	75	-	-
1977-W277	2443179.27	1977 Feb 4 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W278	2443179.30	1977 Feb 4 1913:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W279	2443179.37	1977 Feb 4 2046:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	68	-	-
1977-W280	2443179.39	1977 Feb 4 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1977-W281	2443179.39	1977 Feb 4 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W282	2443179.40	1977 Feb 4 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	63	-	-
1977-W283	2443179.49	1977 Feb 4 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W284	2443179.53	1977 Feb 5 0049:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1977-W285	2443180.49	1977 Feb 5 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1977-W287	2443181.49	1977 Feb 6 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W288	2443182.02	1977 Feb 7 1232:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W289	2443182.14	1977 Feb 7 1515:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	75	-	-
1977-W290	2443182.15	1977 Feb 7 1530:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W291	2443182.17	1977 Feb 7 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W292	2443182.21	1977 Feb 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W293	2443182.21	1977 Feb 7 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W294	2443182.26	1977 Feb 7 1814:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W295	2443182.30	1977 Feb 7 1907:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1977-W296	2443182.38	1977 Feb 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W297	2443182.40	1977 Feb 7 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	68	-	-
1977-W298	2443182.48	1977 Feb 7 2337:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W299	2443183.11	1977 Feb 8 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1977-W300	2443183.13	1977 Feb 8 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W301	2443183.15	1977 Feb 8 1541:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W302	2443183.17	1977 Feb 8 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1977-W303	2443183.19	1977 Feb 8 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W304	2443183.21	1977 Feb 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W305	2443183.26	1977 Feb 8 1810:00	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W306	2443183.29	1977 Feb 8 1857:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	53	-	-
1977-W307	2443183.42	1977 Feb 8 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	70	-	-
1977-W308	2443183.49	1977 Feb 8 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W309	2443183.49	1977 Feb 8 2352:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1977-W310	2443184.09	1977 Feb 9 1415:00	Rocketsonde	-	-	-	-	-	-	ASC	-	-	-	63	-	-
1977-W311	2443184.14	1977 Feb 9 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W312	2443184.17	1977 Feb 9 1559:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1977-W314	2443184.19	1977 Feb 9 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1977-W315	2443184.21	1977 Feb 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1977-W316	2443184.21	1977 Feb 9 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-Y55	2443184.27	1977 Feb 9 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W317	2443184.28	1977 Feb 9 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W318	2443184.30	1977 Feb 9 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1977-Y56	2443184.30	1977 Feb 9 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1977-W319	2443184.32	1977 Feb 9 1938:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-Y57	2443184.38	1977 Feb 9 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1977-W320	2443184.40	1977 Feb 9 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	75	-	-
1977-W321	2443184.40	1977 Feb 9 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	70	-	-
1977-W322	2443184.43	1977 Feb 9 2212:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W323	2443185.17	1977 Feb 10 1558:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W324	2443185.19	1977 Feb 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W325	2443185.21	1977 Feb 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W326	2443185.28	1977 Feb 10 1849:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1977-W327	2443185.29	1977 Feb 10 1859:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W328	2443185.40	1977 Feb 10 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	70	-	-
1977-Y60	2443185.49	1977 Feb 10 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W329	2443185.56	1977 Feb 11 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	61	-	-
1977-W330	2443186.00	1977 Feb 11 1207:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1977-W331	2443186.10	1977 Feb 11 1430:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W332	2443186.15	1977 Feb 11 1533:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W333	2443186.16	1977 Feb 11 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1977-W334	2443186.21	1977 Feb 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W335	2443186.29	1977 Feb 11 1859:59	Rocketsonde	-	Winter Strato	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W336	2443186.32	1977 Feb 11 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W337	2443186.37	1977 Feb 11 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1977-W338	2443186.42	1977 Feb 11 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1977-W339	2443186.50	1977 Feb 12 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	64	-	-
1977-Y62	2443186.50	1977 Feb 12 0003:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W340	2443187.49	1977 Feb 12 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W342	2443188.49	1977 Feb 13 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W343	2443189.07	1977 Feb 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W344	2443189.17	1977 Feb 14 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1977-W345	2443189.19	1977 Feb 14 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W346	2443189.19	1977 Feb 14 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W347	2443189.25	1977 Feb 14 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	51	-	-
1977-W348	2443189.27	1977 Feb 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-W349	2443189.27	1977 Feb 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W350	2443189.35	1977 Feb 14 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1977-W351	2443189.41	1977 Feb 14 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W352	2443189.55	1977 Feb 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W353	2443190.29	1977 Feb 15 1858:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1977-W354	2443190.29	1977 Feb 15 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1977-W355	2443190.52	1977 Feb 16 0034:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1977-W356	2443191.07	1977 Feb 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1977-W357	2443191.12	1977 Feb 16 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1977-W358	2443191.14	1977 Feb 16 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W360	2443191.19	1977 Feb 16 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W361	2443191.23	1977 Feb 16 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W365	2443191.27	1977 Feb 16 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W368	2443191.40	1977 Feb 16 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W369	2443191.50	1977 Feb 17 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	64	-	-
1977-W370	2443192.26	1977 Feb 17 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W371	2443192.33	1977 Feb 17 2001:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	54	-	-
1977-W372	2443192.40	1977 Feb 17 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W373	2443192.41	1977 Feb 17 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W374	2443192.50	1977 Feb 17 2353:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W375	2443193.14	1977 Feb 18 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W376	2443193.15	1977 Feb 18 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	68	-	-
1977-A11	2443193.15	1977 Feb 18 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	47	-	-
1977-W377	2443193.19	1977 Feb 18 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W378	2443193.27	1977 Feb 18 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1977-Y71	2443193.27	1977 Feb 18 1835:59	Rocketsonde	-	-	-	-	-	-	PM	-	-	-	86	-	-
1977-W379	2443193.31	1977 Feb 18 1923:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W380	2443196.11	1977 Feb 21 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W381	2443196.20	1977 Feb 21 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W382	2443197.03	1977 Feb 22 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W383	2443197.17	1977 Feb 22 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W384	2443197.18	1977 Feb 22 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1977-W385	2443197.26	1977 Feb 22 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W386	2443197.31	1977 Feb 22 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1977-W388	2443197.40	1977 Feb 22 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W389	2443198.07	1977 Feb 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W390	2443198.11	1977 Feb 23 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W391	2443198.12	1977 Feb 23 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W392	2443198.15	1977 Feb 23 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W394	2443198.21	1977 Feb 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W395	2443198.24	1977 Feb 23 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W396	2443198.27	1977 Feb 23 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1977-W397	2443198.33	1977 Feb 23 2002:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1977-Y76	2443198.38	1977 Feb 23 2103:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1977-W398	2443198.40	1977 Feb 23 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W399	2443198.43	1977 Feb 23 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W401	2443198.59	1977 Feb 24 0206:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1977-W403	2443199.18	1977 Feb 24 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W404	2443199.20	1977 Feb 24 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W405	2443199.35	1977 Feb 24 2026:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W406	2443199.42	1977 Feb 24 2207:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-Y78	2443199.49	1977 Feb 24 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W407	2443200.01	1977 Feb 25 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1977-W408	2443200.07	1977 Feb 25 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-A12	2443200.12	1977 Feb 25 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	47	-	-
1977-W409	2443200.14	1977 Feb 25 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W410	2443200.27	1977 Feb 25 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W411	2443200.27	1977 Feb 25 1827:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1977-W412	2443200.28	1977 Feb 25 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W413	2443200.35	1977 Feb 25 2027:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W425	2443203.10	1977 Feb 28 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1977-W426	2443203.11	1977 Feb 28 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W427	2443203.19	1977 Feb 28 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W428	2443203.21	1977 Feb 28 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1977-W429	2443203.27	1977 Feb 28 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W430	2443203.28	1977 Feb 28 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W431	2443203.47	1977 Feb 28 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1977-W432	2443203.48	1977 Feb 28 2337:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W433	2443204.19	1977 Mar 1 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W436	2443205.01	1977 Mar 2 1215:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W437	2443205.07	1977 Mar 2 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W438	2443205.08	1977 Mar 2 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W439	2443205.11	1977 Mar 2 1445:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W440	2443205.14	1977 Mar 2 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1977-W441	2443205.19	1977 Mar 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-Y85	2443205.25	1977 Mar 2 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W442	2443205.26	1977 Mar 2 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W443	2443205.27	1977 Mar 2 1829:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W444	2443205.30	1977 Mar 2 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W445	2443205.34	1977 Mar 2 2011:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-Y86	2443205.35	1977 Mar 2 2030:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1977-W446	2443205.36	1977 Mar 2 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1977-W447	2443205.39	1977 Mar 2 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W448	2443205.41	1977 Mar 2 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W449	2443205.44	1977 Mar 2 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1977-W450	2443205.47	1977 Mar 2 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1977-W451	2443206.15	1977 Mar 3 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1977-W452	2443206.50	1977 Mar 3 2357:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	60	-	-
1977-W455	2443207.02	1977 Mar 4 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W456	2443207.10	1977 Mar 4 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-Y89	2443207.14	1977 Mar 4 1525:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1977-W457	2443207.18	1977 Mar 4 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1977-W458	2443207.19	1977 Mar 4 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W459	2443207.23	1977 Mar 4 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W460	2443207.28	1977 Mar 4 1842:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-W461	2443207.32	1977 Mar 4 1946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W463	2443210.02	1977 Mar 7 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W464	2443210.09	1977 Mar 7 1412:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W465	2443210.09	1977 Mar 7 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1977-W466	2443210.18	1977 Mar 7 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1977-W467	2443210.19	1977 Mar 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W468	2443210.25	1977 Mar 7 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W469	2443210.31	1977 Mar 7 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W470	2443210.32	1977 Mar 7 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-W471	2443210.50	1977 Mar 8 0003:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W474	2443211.25	1977 Mar 8 1804:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	60	-	-
1977-W477	2443212.02	1977 Mar 9 1232:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W478	2443212.05	1977 Mar 9 1314:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	58	-	-
1977-W479	2443212.16	1977 Mar 9 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W480	2443212.19	1977 Mar 9 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W481	2443212.22	1977 Mar 9 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1977-W482	2443212.22	1977 Mar 9 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-Y95	2443212.25	1977 Mar 9 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W483	2443212.26	1977 Mar 9 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W484	2443212.31	1977 Mar 9 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1977-W485	2443212.32	1977 Mar 9 1937:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W486	2443212.55	1977 Mar 10 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W487	2443212.75	1977 Mar 10 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1977-W488	2443213.50	1977 Mar 10 2354:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W490	2443214.01	1977 Mar 11 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W491	2443214.13	1977 Mar 11 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W492	2443214.17	1977 Mar 11 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1977-W494	2443214.18	1977 Mar 11 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W495	2443214.19	1977 Mar 11 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W496	2443214.20	1977 Mar 11 1649:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	71	-	-
1977-W497	2443214.21	1977 Mar 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W498	2443214.25	1977 Mar 11 1753:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W499	2443214.36	1977 Mar 11 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1977-W501	2443217.07	1977 Mar 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1977-W502	2443217.13	1977 Mar 14 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1977-W503	2443217.14	1977 Mar 14 1520:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W505	2443217.20	1977 Mar 14 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1977-A15	2443217.20	1977 Mar 14 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	37	-	-
1977-W506	2443217.27	1977 Mar 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W507	2443217.30	1977 Mar 14 1918:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W508	2443217.35	1977 Mar 14 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1977-W509	2443218.21	1977 Mar 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W511	2443218.50	1977 Mar 16 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W512	2443219.00	1977 Mar 16 1207:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W513	2443219.11	1977 Mar 16 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1977-W514	2443219.12	1977 Mar 16 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W516	2443219.14	1977 Mar 16 1520:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W517	2443219.15	1977 Mar 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	60	-	-
1977-W519	2443219.19	1977 Mar 16 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W521	2443219.21	1977 Mar 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-Y105	2443219.27	1977 Mar 16 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W523	2443219.28	1977 Mar 16 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W524	2443219.47	1977 Mar 16 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1977-Y106	2443219.55	1977 Mar 17 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1977-W527	2443220.14	1977 Mar 17 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1977-W528	2443220.26	1977 Mar 17 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W529	2443220.50	1977 Mar 17 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W532	2443221.02	1977 Mar 18 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1977-W533	2443221.11	1977 Mar 18 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W534	2443221.14	1977 Mar 18 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W535	2443221.16	1977 Mar 18 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W536	2443221.17	1977 Mar 18 1608:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1977-W537	2443221.19	1977 Mar 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-Y112	2443221.27	1977 Mar 18 1829:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W538	2443221.30	1977 Mar 18 1907:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W539	2443221.36	1977 Mar 18 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1977-W541	2443224.09	1977 Mar 21 1414:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1977-W542	2443224.12	1977 Mar 21 1500:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	51	-	-
1977-W543	2443224.19	1977 Mar 21 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-A16	2443224.27	1977 Mar 21 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	47	-	-
1977-W544	2443224.31	1977 Mar 21 1927:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1977-W545	2443225.03	1977 Mar 22 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W547	2443225.19	1977 Mar 22 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1977-W548	2443225.30	1977 Mar 22 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W549	2443225.51	1977 Mar 23 0020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W552	2443226.01	1977 Mar 23 1211:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1977-W554	2443226.13	1977 Mar 23 1510:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W555	2443226.15	1977 Mar 23 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W556	2443226.15	1977 Mar 23 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1977-W557	2443226.19	1977 Mar 23 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W558	2443226.19	1977 Mar 23 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-Y123	2443226.20	1977 Mar 23 1644:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1977-Y124	2443226.24	1977 Mar 23 1745:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W559	2443226.25	1977 Mar 23 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y125	2443226.31	1977 Mar 23 1920:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1977-W560	2443226.32	1977 Mar 23 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1977-W561	2443226.32	1977 Mar 23 1947:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W562	2443226.38	1977 Mar 23 2111:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W563	2443227.13	1977 Mar 24 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W564	2443227.20	1977 Mar 24 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-Y126	2443227.28	1977 Mar 24 1845:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W566	2443227.58	1977 Mar 25 0200:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	69	-	-
1977-W567	2443227.62	1977 Mar 25 0300:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	67	-	-
1977-W569	2443228.02	1977 Mar 25 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W570	2443228.10	1977 Mar 25 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W571	2443228.14	1977 Mar 25 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W572	2443228.17	1977 Mar 25 1611:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1977-W574	2443228.25	1977 Mar 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W575	2443228.48	1977 Mar 25 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	75	-	-
1977-W576	2443228.55	1977 Mar 26 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W577	2443231.05	1977 Mar 28 1309:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1977-W578	2443231.10	1977 Mar 28 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W579	2443231.10	1977 Mar 28 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W581	2443231.17	1977 Mar 28 1611:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W582	2443231.22	1977 Mar 28 1717:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W583	2443231.23	1977 Mar 28 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1977-W584	2443231.25	1977 Mar 28 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W585	2443231.29	1977 Mar 28 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1977-W586	2443231.31	1977 Mar 28 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W587	2443232.14	1977 Mar 29 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1977-W588	2443232.19	1977 Mar 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W589	2443232.21	1977 Mar 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W590	2443232.50	1977 Mar 29 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W592	2443233.02	1977 Mar 30 1224:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W593	2443233.09	1977 Mar 30 1410:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W594	2443233.11	1977 Mar 30 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1977-W595	2443233.15	1977 Mar 30 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-Y137	2443233.19	1977 Mar 30 1631:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	97	-	-
1977-W597	2443233.21	1977 Mar 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W598	2443233.26	1977 Mar 30 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W599	2443233.28	1977 Mar 30 1838:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W600	2443233.33	1977 Mar 30 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W601	2443233.35	1977 Mar 30 2019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-Y138	2443233.50	1977 Mar 30 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W604	2443234.20	1977 Mar 31 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W605	2443234.23	1977 Mar 31 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W606	2443235.07	1977 Apr 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W608	2443235.12	1977 Apr 1 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W609	2443235.15	1977 Apr 1 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W610	2443235.16	1977 Apr 1 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W611	2443235.17	1977 Apr 1 1609:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	76	-	-
1977-W613	2443235.25	1977 Apr 1 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-Y140	2443235.29	1977 Apr 1 1851:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1977-W614	2443235.30	1977 Apr 1 1917:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W615	2443235.35	1977 Apr 1 2026:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1977-Y141	2443235.40	1977 Apr 1 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W616	2443235.42	1977 Apr 1 2203:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W617	2443235.55	1977 Apr 2 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W620	2443238.01	1977 Apr 4 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W621	2443238.10	1977 Apr 4 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W622	2443238.11	1977 Apr 4 1445:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W623	2443238.12	1977 Apr 4 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W624	2443238.19	1977 Apr 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W625	2443238.21	1977 Apr 4 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W626	2443238.25	1977 Apr 4 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W627	2443238.29	1977 Apr 4 1858:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1977-W628	2443238.33	1977 Apr 4 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W629	2443239.49	1977 Apr 5 2352:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1977-W630	2443240.01	1977 Apr 6 1217:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W631	2443240.12	1977 Apr 6 1453:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1977-W632	2443240.12	1977 Apr 6 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-Y148	2443240.14	1977 Apr 6 1525:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1977-W633	2443240.18	1977 Apr 6 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W634	2443240.18	1977 Apr 6 1625:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W635	2443240.19	1977 Apr 6 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W636	2443240.23	1977 Apr 6 1727:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W637	2443240.23	1977 Apr 6 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-Y149	2443240.34	1977 Apr 6 2015:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W638	2443240.35	1977 Apr 6 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W639	2443240.39	1977 Apr 6 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W640	2443240.42	1977 Apr 6 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W641	2443241.21	1977 Apr 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W642	2443241.40	1977 Apr 7 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W643	2443242.09	1977 Apr 8 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W644	2443242.11	1977 Apr 8 1440:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	67	-	-
1977-W645	2443242.14	1977 Apr 8 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1977-W646	2443242.18	1977 Apr 8 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1977-W647	2443242.26	1977 Apr 8 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1977-Y151	2443242.27	1977 Apr 8 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W648	2443242.39	1977 Apr 8 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W649	2443245.00	1977 Apr 11 1204:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W650	2443245.11	1977 Apr 11 1445:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	71	-	-
1977-W651	2443245.17	1977 Apr 11 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W652	2443245.20	1977 Apr 11 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W653	2443245.26	1977 Apr 11 1811:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W654	2443245.28	1977 Apr 11 1841:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1977-W655	2443246.23	1977 Apr 12 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1977-W656	2443246.50	1977 Apr 12 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W658	2443247.02	1977 Apr 13 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W659	2443247.12	1977 Apr 13 1458:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-Y156	2443247.12	1977 Apr 13 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	89	-	-
1977-W660	2443247.15	1977 Apr 13 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W662	2443247.17	1977 Apr 13 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1977-W663	2443247.19	1977 Apr 13 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W664	2443247.21	1977 Apr 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W665	2443247.23	1977 Apr 13 1730:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-Y157	2443247.25	1977 Apr 13 1755:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W666	2443247.25	1977 Apr 13 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y158	2443247.31	1977 Apr 13 1925:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W667	2443247.33	1977 Apr 13 1952:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W668	2443247.34	1977 Apr 13 2009:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	69	-	-
1977-W669	2443247.36	1977 Apr 13 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1977-W670	2443247.52	1977 Apr 14 0032:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W673	2443248.03	1977 Apr 14 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W674	2443248.14	1977 Apr 14 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	71	-	-
1977-A20	2443248.54	1977 Apr 15 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1977-W675	2443249.12	1977 Apr 15 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W676	2443249.17	1977 Apr 15 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W677	2443249.18	1977 Apr 15 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W678	2443249.18	1977 Apr 15 1622:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W680	2443249.19	1977 Apr 15 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W681	2443249.38	1977 Apr 15 2111:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W682	2443249.40	1977 Apr 15 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W683	2443252.00	1977 Apr 18 1206:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W684	2443252.12	1977 Apr 18 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W685	2443252.18	1977 Apr 18 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W686	2443252.21	1977 Apr 18 1700:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W687	2443252.23	1977 Apr 18 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W688	2443252.25	1977 Apr 18 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W689	2443252.32	1977 Apr 18 1946:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	54	-	-
1977-W690	2443252.46	1977 Apr 18 2308:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W692	2443253.42	1977 Apr 19 2158:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W694	2443254.02	1977 Apr 20 1225:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W695	2443254.07	1977 Apr 20 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W697	2443254.15	1977 Apr 20 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W698	2443254.16	1977 Apr 20 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1977-W701	2443254.23	1977 Apr 20 1730:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	55	-	-
1977-Y164	2443254.23	1977 Apr 20 1737:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	81	-	-
1977-W703	2443254.25	1977 Apr 20 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-Y165	2443254.26	1977 Apr 20 1814:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W704	2443254.27	1977 Apr 20 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W705	2443254.32	1977 Apr 20 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W707	2443254.56	1977 Apr 21 0123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1977-W709	2443255.15	1977 Apr 21 1540:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	68	-	-
1977-W710	2443256.02	1977 Apr 22 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1977-W712	2443256.12	1977 Apr 22 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W713	2443256.14	1977 Apr 22 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	54	-	-
1977-W715	2443256.18	1977 Apr 22 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W716	2443256.19	1977 Apr 22 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-Y167	2443256.23	1977 Apr 22 1730:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1977-W717	2443256.26	1977 Apr 22 1809:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W718	2443256.40	1977 Apr 22 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W719	2443256.55	1977 Apr 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W721	2443259.01	1977 Apr 25 1211:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W722	2443259.13	1977 Apr 25 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W724	2443259.25	1977 Apr 25 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W725	2443259.26	1977 Apr 25 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W726	2443259.27	1977 Apr 25 1831:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W727	2443259.34	1977 Apr 25 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W729	2443260.15	1977 Apr 26 1542:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W730	2443260.19	1977 Apr 26 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W731	2443260.21	1977 Apr 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1977-W732	2443260.38	1977 Apr 26 2109:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W733	2443261.02	1977 Apr 27 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W734	2443261.10	1977 Apr 27 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W735	2443261.14	1977 Apr 27 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W736	2443261.16	1977 Apr 27 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W738	2443261.19	1977 Apr 27 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W739	2443261.21	1977 Apr 27 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-Y172	2443261.25	1977 Apr 27 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W740	2443261.26	1977 Apr 27 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W741	2443261.36	1977 Apr 27 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-Y173	2443261.39	1977 Apr 27 2114:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W742	2443261.40	1977 Apr 27 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1977-W743	2443261.47	1977 Apr 27 2312:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	54	-	-
1977-W744	2443262.40	1977 Apr 28 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1977-W746	2443263.07	1977 Apr 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W748	2443263.12	1977 Apr 29 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W749	2443263.16	1977 Apr 29 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1977-W750	2443263.16	1977 Apr 29 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W751	2443263.19	1977 Apr 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W752	2443263.25	1977 Apr 29 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W753	2443263.33	1977 Apr 29 1958:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W754	2443263.33	1977 Apr 29 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W755	2443263.44	1977 Apr 29 2234:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W759	2443266.08	1977 May 2 1400:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-W760	2443266.15	1977 May 2 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W761	2443266.18	1977 May 2 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1977-W762	2443266.18	1977 May 2 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W764	2443266.21	1977 May 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W765	2443266.25	1977 May 2 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W766	2443266.27	1977 May 2 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W767	2443266.33	1977 May 2 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W768	2443266.38	1977 May 2 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W769	2443266.58	1977 May 3 0201:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W771	2443267.05	1977 May 3 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W772	2443267.27	1977 May 3 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-A22	2443268.07	1977 May 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	27	-	-
1977-W774	2443268.08	1977 May 4 1354:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W775	2443268.11	1977 May 4 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W776	2443268.12	1977 May 4 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-Y178	2443268.15	1977 May 4 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1977-W777	2443268.15	1977 May 4 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1977-W778	2443268.17	1977 May 4 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1977-W780	2443268.19	1977 May 4 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1977-W781	2443268.22	1977 May 4 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W782	2443268.29	1977 May 4 1856:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W783	2443268.37	1977 May 4 2048:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W784	2443268.50	1977 May 5 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1977-W785	2443268.56	1977 May 5 0132:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W786	2443269.14	1977 May 5 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W787	2443269.25	1977 May 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W789	2443270.07	1977 May 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1977-W790	2443270.12	1977 May 6 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1977-W791	2443270.12	1977 May 6 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W792	2443270.14	1977 May 6 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W793	2443270.17	1977 May 6 1559:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	68	-	-
1977-W794	2443270.18	1977 May 6 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W796	2443270.19	1977 May 6 1640:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W797	2443270.30	1977 May 6 1913:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W798	2443270.35	1977 May 6 2021:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1977-W799	2443270.38	1977 May 6 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W800	2443270.38	1977 May 6 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W801	2443270.55	1977 May 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-A23	2443273.01	1977 May 9 1218:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	46	-	-
1977-W802	2443273.12	1977 May 9 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W803	2443273.14	1977 May 9 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1977-W805	2443273.20	1977 May 9 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1977-W806	2443273.22	1977 May 9 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W807	2443273.28	1977 May 9 1842:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W808	2443273.33	1977 May 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-W809	2443273.38	1977 May 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W810	2443274.25	1977 May 10 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W811	2443274.44	1977 May 10 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W813	2443275.10	1977 May 11 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W814	2443275.11	1977 May 11 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W815	2443275.13	1977 May 11 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W816	2443275.14	1977 May 11 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-Y185	2443275.14	1977 May 11 1514:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1977-Y186	2443275.14	1977 May 11 1521:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W817	2443275.18	1977 May 11 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1977-W818	2443275.18	1977 May 11 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1977-W819	2443275.20	1977 May 11 1644:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	63	-	-
1977-W820	2443275.20	1977 May 11 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1977-Y187	2443275.26	1977 May 11 1814:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W821	2443275.27	1977 May 11 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W822	2443275.36	1977 May 11 2038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W823	2443276.19	1977 May 12 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1977-A25	2443276.50	1977 May 13 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1977-A26	2443277.07	1977 May 13 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	49	-	-
1977-W824	2443277.11	1977 May 13 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1977-W825	2443277.13	1977 May 13 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W826	2443277.14	1977 May 13 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W827	2443277.18	1977 May 13 1620:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W829	2443277.19	1977 May 13 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W830	2443277.29	1977 May 13 1900:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W831	2443277.34	1977 May 13 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W832	2443277.49	1977 May 13 2340:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-A27	2443277.50	1977 May 14 0001:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1977-A28	2443280.14	1977 May 16 1514:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	29	-	-
1977-W833	2443280.16	1977 May 16 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1977-W834	2443280.17	1977 May 16 1607:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1977-W836	2443280.23	1977 May 16 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W837	2443280.24	1977 May 16 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W838	2443280.27	1977 May 16 1835:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1977-W839	2443280.38	1977 May 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W840	2443280.39	1977 May 16 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W841	2443280.49	1977 May 16 2340:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W842	2443281.05	1977 May 17 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W843	2443281.18	1977 May 17 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-W844	2443281.19	1977 May 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W845	2443281.29	1977 May 17 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W847	2443281.79	1977 May 18 0655:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1977-W848	2443282.07	1977 May 18 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1977-W849	2443282.07	1977 May 18 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1977-W850	2443282.08	1977 May 18 1402:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-Y195	2443282.14	1977 May 18 1514:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1977-W851	2443282.15	1977 May 18 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W852	2443282.17	1977 May 18 1600:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	58	-	-
1977-W853	2443282.18	1977 May 18 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W854	2443282.18	1977 May 18 1623:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1977-W856	2443282.19	1977 May 18 1637:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	69	-	-
1977-W858	2443282.21	1977 May 18 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-Y196	2443282.25	1977 May 18 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	100	-	-
1977-W859	2443282.26	1977 May 18 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-Y197	2443282.28	1977 May 18 1838:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1977-W861	2443282.29	1977 May 18 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1977-W862	2443282.31	1977 May 18 1921:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W863	2443282.38	1977 May 18 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1977-W864	2443284.10	1977 May 20 1420:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W865	2443284.11	1977 May 20 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W866	2443284.11	1977 May 20 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W867	2443284.13	1977 May 20 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W868	2443284.18	1977 May 20 1622:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1977-W869	2443284.19	1977 May 20 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W870	2443284.25	1977 May 20 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W871	2443284.26	1977 May 20 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y200	2443284.38	1977 May 20 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1977-W872	2443284.38	1977 May 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W873	2443284.39	1977 May 20 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W874	2443284.53	1977 May 21 0036:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W875	2443284.54	1977 May 21 0058:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W876	2443287.02	1977 May 23 1224:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1977-W877	2443287.23	1977 May 23 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1977-W878	2443287.25	1977 May 23 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W879	2443287.30	1977 May 23 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W880	2443287.35	1977 May 23 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1977-W881	2443287.46	1977 May 23 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W882	2443288.13	1977 May 24 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1977-W884	2443289.03	1977 May 25 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1977-W885	2443289.07	1977 May 25 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	69	-	-
1977-W886	2443289.10	1977 May 25 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W888	2443289.12	1977 May 25 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-Y206	2443289.15	1977 May 25 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1977-W889	2443289.18	1977 May 25 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W890	2443289.19	1977 May 25 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1977-Y208	2443289.25	1977 May 25 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	102	-	-
1977-Y209	2443289.26	1977 May 25 1815:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1977-W891	2443289.29	1977 May 25 1855:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W892	2443289.34	1977 May 25 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-Y210	2443289.38	1977 May 25 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W893	2443289.40	1977 May 25 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-W894	2443289.51	1977 May 26 0018:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W895	2443290.14	1977 May 26 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W896	2443290.38	1977 May 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W897	2443291.07	1977 May 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1977-W900	2443291.12	1977 May 27 1453:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	71	-	-
1977-W902	2443291.12	1977 May 27 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1977-W903	2443291.16	1977 May 27 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W904	2443291.19	1977 May 27 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W906	2443291.24	1977 May 27 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W909	2443291.29	1977 May 27 1856:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W910	2443291.35	1977 May 27 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-Y213	2443291.38	1977 May 27 2109:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W911	2443291.38	1977 May 27 2113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W914	2443291.49	1977 May 27 2347:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W915	2443291.53	1977 May 28 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W918	2443291.95	1977 May 28 1041:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W919	2443291.95	1977 May 28 1046:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W920	2443294.13	1977 May 30 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W922	2443294.50	1977 May 31 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W923	2443295.13	1977 May 31 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1977-W924	2443295.16	1977 May 31 1545:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	69	-	-
1977-W925	2443295.22	1977 May 31 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W926	2443295.40	1977 May 31 2138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1977-W927	2443295.42	1977 May 31 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1977-A31	2443296.05	1977 Jun 1 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	49	-	-
1977-W929	2443296.07	1977 Jun 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W930	2443296.10	1977 Jun 1 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1977-W931	2443296.13	1977 Jun 1 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W932	2443296.14	1977 Jun 1 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-Y220	2443296.15	1977 Jun 1 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1977-W933	2443296.15	1977 Jun 1 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W934	2443296.19	1977 Jun 1 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-Y221	2443296.25	1977 Jun 1 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	100	-	-
1977-W936	2443296.25	1977 Jun 1 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W937	2443296.26	1977 Jun 1 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-W938	2443296.35	1977 Jun 1 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-Y222	2443296.42	1977 Jun 1 2159:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1977-W939	2443296.44	1977 Jun 1 2235:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W940	2443296.50	1977 Jun 2 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W941	2443296.56	1977 Jun 2 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W943	2443297.19	1977 Jun 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W944	2443297.38	1977 Jun 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1977-W946	2443298.10	1977 Jun 3 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W947	2443298.12	1977 Jun 3 1500:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W948	2443298.21	1977 Jun 3 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W949	2443298.25	1977 Jun 3 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W950	2443298.34	1977 Jun 3 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W951	2443298.38	1977 Jun 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W952	2443298.55	1977 Jun 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W954	2443301.04	1977 Jun 6 1259:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1977-W955	2443301.18	1977 Jun 6 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1977-W956	2443301.19	1977 Jun 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W957	2443301.34	1977 Jun 6 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1977-W958	2443301.36	1977 Jun 6 2038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1977-W959	2443301.55	1977 Jun 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W960	2443302.02	1977 Jun 7 1234:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1977-W963	2443303.07	1977 Jun 8 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W965	2443303.11	1977 Jun 8 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1977-W966	2443303.17	1977 Jun 8 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	64	-	-
1977-Y229	2443303.17	1977 Jun 8 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1977-W967	2443303.17	1977 Jun 8 1604:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	51	-	-
1977-W968	2443303.19	1977 Jun 8 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1977-W969	2443303.21	1977 Jun 8 1700:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1977-W971	2443303.26	1977 Jun 8 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W972	2443303.27	1977 Jun 8 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W973	2443303.36	1977 Jun 8 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W974	2443303.50	1977 Jun 9 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W975	2443303.55	1977 Jun 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W976	2443304.00	1977 Jun 9 1202:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W977	2443304.19	1977 Jun 9 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W978	2443304.27	1977 Jun 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W979	2443305.10	1977 Jun 10 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W980	2443305.12	1977 Jun 10 1459:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1977-Y230	2443305.32	1977 Jun 10 1934:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1977-W981	2443305.35	1977 Jun 10 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W982	2443305.55	1977 Jun 11 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W983	2443306.47	1977 Jun 11 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1977-W984	2443307.48	1977 Jun 12 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W985	2443308.07	1977 Jun 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W986	2443308.08	1977 Jun 13 1352:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W987	2443308.13	1977 Jun 13 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1977-W988	2443308.15	1977 Jun 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W989	2443308.15	1977 Jun 13 1534:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	75	-	-
1977-W990	2443308.17	1977 Jun 13 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W991	2443308.25	1977 Jun 13 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-A32	2443308.40	1977 Jun 13 2142:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	41	-	-
1977-W992	2443308.48	1977 Jun 13 2324:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W993	2443309.05	1977 Jun 14 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W994	2443309.11	1977 Jun 14 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W995	2443309.13	1977 Jun 14 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W996	2443309.16	1977 Jun 14 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W997	2443309.27	1977 Jun 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W998	2443309.47	1977 Jun 14 2321:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1001	2443310.07	1977 Jun 15 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	68	-	-
1977-W1002	2443310.07	1977 Jun 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1977-W1003	2443310.11	1977 Jun 15 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W1004	2443310.11	1977 Jun 15 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W1005	2443310.14	1977 Jun 15 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1977-W1006	2443310.15	1977 Jun 15 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W1007	2443310.15	1977 Jun 15 1535:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	63	-	-
1977-Y235	2443310.17	1977 Jun 15 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1977-Y236	2443310.18	1977 Jun 15 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	101	-	-
1977-W1008	2443310.18	1977 Jun 15 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1009	2443310.19	1977 Jun 15 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1012	2443310.22	1977 Jun 15 1721:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	63	-	-
1977-W1013	2443310.25	1977 Jun 15 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1014	2443310.32	1977 Jun 15 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W1015	2443310.39	1977 Jun 15 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1977-W1016	2443310.47	1977 Jun 15 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1017	2443311.04	1977 Jun 16 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1977-W1018	2443311.09	1977 Jun 16 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W1019	2443311.14	1977 Jun 16 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W1020	2443311.21	1977 Jun 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1977-W1021	2443311.38	1977 Jun 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1977-W1022	2443311.47	1977 Jun 16 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1023	2443311.50	1977 Jun 17 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W1025	2443312.03	1977 Jun 17 1238:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W1026	2443312.07	1977 Jun 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W1027	2443312.12	1977 Jun 17 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1977-W1028	2443312.15	1977 Jun 17 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1977-W1029	2443312.26	1977 Jun 17 1814:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	69	-	-
1977-W1030	2443312.26	1977 Jun 17 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W02	2443512.21	1978 Jan 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W03	2443512.29	1978 Jan 3 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W04	2443512.38	1978 Jan 3 2102:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W05	2443512.41	1978 Jan 3 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W07	2443513.12	1978 Jan 4 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W08	2443513.15	1978 Jan 4 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1978-W09	2443513.20	1978 Jan 4 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1978-Y06	2443513.23	1978 Jan 4 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W11	2443513.23	1978 Jan 4 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W12	2443513.24	1978 Jan 4 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	77	-	-
1978-Y07	2443513.38	1978 Jan 4 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1978-W13	2443513.39	1978 Jan 4 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1978-W14	2443513.40	1978 Jan 4 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1978-Y08	2443513.55	1978 Jan 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W16	2443514.25	1978 Jan 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W17	2443515.11	1978 Jan 6 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W19	2443515.15	1978 Jan 6 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W20	2443515.21	1978 Jan 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W21	2443515.27	1978 Jan 6 1826:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W22	2443515.29	1978 Jan 6 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-W23	2443515.44	1978 Jan 6 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W24	2443515.46	1978 Jan 6 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W25	2443518.15	1978 Jan 9 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-W26	2443518.20	1978 Jan 9 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W27	2443518.25	1978 Jan 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W28	2443518.42	1978 Jan 9 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1978-W29	2443518.45	1978 Jan 9 2246:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1978-W30	2443518.50	1978 Jan 9 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W31	2443519.17	1978 Jan 10 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W32	2443519.25	1978 Jan 10 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W33	2443520.13	1978 Jan 11 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W34	2443520.16	1978 Jan 11 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1978-W35	2443520.20	1978 Jan 11 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1978-W36	2443520.21	1978 Jan 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1978-Y16	2443520.33	1978 Jan 11 2002:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W37	2443520.34	1978 Jan 11 2012:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W38	2443520.42	1978 Jan 11 2211:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	78	-	-
1978-Y17	2443520.44	1978 Jan 11 2233:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-W39	2443520.46	1978 Jan 11 2302:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-W40	2443520.50	1978 Jan 11 2355:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W41	2443521.27	1978 Jan 12 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W42	2443521.30	1978 Jan 12 1915:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W43	2443521.41	1978 Jan 12 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W44	2443522.21	1978 Jan 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1978-W45	2443522.22	1978 Jan 13 1712:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W46	2443522.34	1978 Jan 13 2003:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-W47	2443522.36	1978 Jan 13 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W48	2443522.41	1978 Jan 13 2147:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1978-W49	2443522.56	1978 Jan 14 0122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W50	2443525.09	1978 Jan 16 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W51	2443525.19	1978 Jan 16 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1978-W52	2443525.33	1978 Jan 16 1955:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W53	2443525.42	1978 Jan 16 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1978-W54	2443525.56	1978 Jan 17 0129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W55	2443526.08	1978 Jan 17 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W56	2443526.19	1978 Jan 17 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-W57	2443526.27	1978 Jan 17 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W58	2443527.16	1978 Jan 18 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-W60	2443527.20	1978 Jan 18 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W61	2443527.21	1978 Jan 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1978-W63	2443527.22	1978 Jan 18 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1978-Y31	2443527.29	1978 Jan 18 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1978-W65	2443527.30	1978 Jan 18 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y32	2443527.37	1978 Jan 18 2054:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1978-W66	2443527.38	1978 Jan 18 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	71	-	-
1978-W67	2443527.58	1978 Jan 19 0152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1978-W69	2443528.31	1978 Jan 19 1925:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-Y33	2443528.40	1978 Jan 19 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W70	2443529.11	1978 Jan 20 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W72	2443529.21	1978 Jan 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W73	2443529.21	1978 Jan 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W74	2443529.26	1978 Jan 20 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W75	2443529.35	1978 Jan 20 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1978-W76	2443529.40	1978 Jan 20 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W77	2443531.07	1978 Jan 22 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1978-W78	2443532.12	1978 Jan 23 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W80	2443532.21	1978 Jan 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W81	2443532.24	1978 Jan 23 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W82	2443532.29	1978 Jan 23 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-W83	2443532.35	1978 Jan 23 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1978-W84	2443532.37	1978 Jan 23 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W86	2443533.34	1978 Jan 24 2009:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W87	2443533.35	1978 Jan 24 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1978-W88	2443533.50	1978 Jan 24 2357:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1978-W90	2443534.13	1978 Jan 25 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W91	2443534.15	1978 Jan 25 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y40	2443534.18	1978 Jan 25 1620:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1978-W93	2443534.19	1978 Jan 25 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W94	2443534.20	1978 Jan 25 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W95	2443534.21	1978 Jan 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-Y41	2443534.26	1978 Jan 25 1814:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W96	2443534.27	1978 Jan 25 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W97	2443534.38	1978 Jan 25 2108:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W98	2443534.42	1978 Jan 25 2207:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1978-W99	2443534.55	1978 Jan 26 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1978-W101	2443535.18	1978 Jan 26 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-A02	2443535.25	1978 Jan 26 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	44	-	-
1978-W102	2443536.13	1978 Jan 27 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W103	2443536.20	1978 Jan 27 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1978-A03	2443536.20	1978 Jan 27 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1978-W105	2443536.29	1978 Jan 27 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W106	2443536.38	1978 Jan 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1978-A04	2443536.38	1978 Jan 27 2111:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	49	-	-
1978-Y45	2443536.40	1978 Jan 27 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1978-W107	2443539.10	1978 Jan 30 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W108	2443539.17	1978 Jan 30 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W110	2443539.20	1978 Jan 30 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W111	2443539.20	1978 Jan 30 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W112	2443539.21	1978 Jan 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1978-W113	2443539.43	1978 Jan 30 2222:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-Y47	2443539.55	1978 Jan 31 0118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1978-W114	2443539.62	1978 Jan 31 0300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1978-W115	2443540.07	1978 Jan 31 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W117	2443540.29	1978 Jan 31 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W119	2443541.15	1978 Feb 1 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1978-W120	2443541.20	1978 Feb 1 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W121	2443541.21	1978 Feb 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W123	2443541.29	1978 Feb 1 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W124	2443541.31	1978 Feb 1 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-Y53	2443541.34	1978 Feb 1 2007:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W125	2443541.35	1978 Feb 1 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W127	2443542.25	1978 Feb 2 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1978-W129	2443543.13	1978 Feb 3 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W130	2443543.15	1978 Feb 3 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W131	2443543.19	1978 Feb 3 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W132	2443543.21	1978 Feb 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-Y56	2443543.35	1978 Feb 3 2024:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-W133	2443543.37	1978 Feb 3 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W134	2443543.55	1978 Feb 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-W135	2443546.12	1978 Feb 6 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W136	2443546.15	1978 Feb 6 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W138	2443546.17	1978 Feb 6 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1978-W139	2443546.20	1978 Feb 6 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1978-W140	2443546.20	1978 Feb 6 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W141	2443546.30	1978 Feb 6 1904:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W142	2443546.37	1978 Feb 6 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1978-W143	2443547.25	1978 Feb 7 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W144	2443547.29	1978 Feb 7 1902:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1978-W147	2443548.13	1978 Feb 8 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W148	2443548.15	1978 Feb 8 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-Y63	2443548.19	1978 Feb 8 1634:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W150	2443548.20	1978 Feb 8 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W151	2443548.20	1978 Feb 8 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W152	2443548.21	1978 Feb 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W153	2443548.21	1978 Feb 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-Y64	2443548.38	1978 Feb 8 2102:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W154	2443548.40	1978 Feb 8 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1978-W156	2443549.29	1978 Feb 9 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W157	2443549.41	1978 Feb 9 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W158	2443549.42	1978 Feb 9 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-W160	2443550.14	1978 Feb 10 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W162	2443550.20	1978 Feb 10 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1978-W163	2443550.21	1978 Feb 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W164	2443550.29	1978 Feb 10 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W165	2443553.13	1978 Feb 13 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W167	2443553.21	1978 Feb 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W168	2443553.33	1978 Feb 13 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W169	2443553.38	1978 Feb 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W170	2443553.55	1978 Feb 14 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W171	2443554.17	1978 Feb 14 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W173	2443554.25	1978 Feb 14 1754:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W174	2443554.42	1978 Feb 14 2210:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1978-W177	2443555.13	1978 Feb 15 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W178	2443555.15	1978 Feb 15 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W180	2443555.19	1978 Feb 15 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-Y71	2443555.21	1978 Feb 15 1655:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-W181	2443555.21	1978 Feb 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	52	-	-
1978-W183	2443555.23	1978 Feb 15 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	52	-	-
1978-Y72	2443555.29	1978 Feb 15 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W185	2443555.30	1978 Feb 15 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W186	2443555.57	1978 Feb 16 0134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W187	2443556.15	1978 Feb 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-W188	2443556.17	1978 Feb 16 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-W190	2443556.19	1978 Feb 16 1627:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1978-W191	2443556.50	1978 Feb 17 0002:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W194	2443557.14	1978 Feb 17 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W195	2443557.14	1978 Feb 17 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-A06	2443557.19	1978 Feb 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	46	-	-
1978-W197	2443557.20	1978 Feb 17 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W198	2443557.21	1978 Feb 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W199	2443558.15	1978 Feb 18 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W200	2443558.50	1978 Feb 19 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W201	2443559.14	1978 Feb 19 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	65	-	-
1978-W202	2443559.50	1978 Feb 20 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W203	2443560.11	1978 Feb 20 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W204	2443560.16	1978 Feb 20 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	65	-	-
1978-W205	2443560.20	1978 Feb 20 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-Y76	2443560.50	1978 Feb 21 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W206	2443561.07	1978 Feb 21 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W207	2443561.17	1978 Feb 21 1602:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W208	2443561.19	1978 Feb 21 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1978-W210	2443561.21	1978 Feb 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W211	2443561.23	1978 Feb 21 1724:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W212	2443561.29	1978 Feb 21 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-W213	2443561.37	1978 Feb 21 2048:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-Y78	2443561.50	1978 Feb 22 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W216	2443562.13	1978 Feb 22 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1978-W217	2443562.15	1978 Feb 22 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1978-Y83	2443562.17	1978 Feb 22 1604:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W218	2443562.18	1978 Feb 22 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W219	2443562.19	1978 Feb 22 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W220	2443562.20	1978 Feb 22 1651:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	78	-	-
1978-W222	2443562.21	1978 Feb 22 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W223	2443562.24	1978 Feb 22 1748:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1978-W224	2443562.50	1978 Feb 23 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1978-W225	2443563.15	1978 Feb 23 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-W226	2443563.21	1978 Feb 23 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W227	2443563.25	1978 Feb 23 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W228	2443563.38	1978 Feb 23 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1978-W229	2443563.42	1978 Feb 23 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1978-W230	2443563.50	1978 Feb 24 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W233	2443564.15	1978 Feb 24 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1978-W234	2443564.18	1978 Feb 24 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W235	2443564.19	1978 Feb 24 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W236	2443564.20	1978 Feb 24 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1978-W237	2443564.21	1978 Feb 24 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-Y88	2443564.50	1978 Feb 25 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1978-W238	2443565.15	1978 Feb 25 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W239	2443565.56	1978 Feb 26 0130:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W240	2443566.15	1978 Feb 26 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1978-Y89	2443566.50	1978 Feb 27 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W242	2443567.18	1978 Feb 27 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W243	2443567.21	1978 Feb 27 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1978-W244	2443567.27	1978 Feb 27 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1978-W245	2443567.31	1978 Feb 27 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1978-W246	2443567.42	1978 Feb 27 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1978-Y91	2443567.55	1978 Feb 28 0113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1978-W257	2443568.15	1978 Feb 28 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W258	2443568.29	1978 Feb 28 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W259	2443568.31	1978 Feb 28 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-Y92	2443568.57	1978 Mar 1 0140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1978-W261	2443569.13	1978 Mar 1 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W262	2443569.15	1978 Mar 1 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1978-W263	2443569.20	1978 Mar 1 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W264	2443569.21	1978 Mar 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-Y98	2443569.29	1978 Mar 1 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W265	2443569.30	1978 Mar 1 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W267	2443569.58	1978 Mar 2 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1978-W268	2443571.11	1978 Mar 3 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W269	2443571.19	1978 Mar 3 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-W270	2443571.21	1978 Mar 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W271	2443571.29	1978 Mar 3 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W272	2443571.37	1978 Mar 3 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W273	2443571.55	1978 Mar 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W274	2443574.14	1978 Mar 6 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W275	2443574.19	1978 Mar 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W276	2443574.21	1978 Mar 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1978-W277	2443574.31	1978 Mar 6 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-A09	2443574.53	1978 Mar 7 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1978-Y104	2443574.55	1978 Mar 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W278	2443575.54	1978 Mar 8 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1978-W280	2443576.12	1978 Mar 8 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W281	2443576.15	1978 Mar 8 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1978-W282	2443576.21	1978 Mar 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W283	2443576.21	1978 Mar 8 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W284	2443576.23	1978 Mar 8 1724:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-Y111	2443576.23	1978 Mar 8 1737:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1978-W285	2443576.24	1978 Mar 8 1748:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W286	2443576.27	1978 Mar 8 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1978-W287	2443576.29	1978 Mar 8 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1978-W288	2443576.31	1978 Mar 8 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-W289	2443576.37	1978 Mar 8 2058:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	74	-	-
1978-W290	2443576.40	1978 Mar 8 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1978-W291	2443576.42	1978 Mar 8 2157:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W292	2443576.53	1978 Mar 9 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1978-W294	2443577.38	1978 Mar 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1978-W296	2443578.08	1978 Mar 10 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W297	2443578.09	1978 Mar 10 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W299	2443578.20	1978 Mar 10 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1978-W300	2443578.21	1978 Mar 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W301	2443578.31	1978 Mar 10 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W302	2443578.33	1978 Mar 10 1952:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W303	2443578.34	1978 Mar 10 2007:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-W304	2443578.55	1978 Mar 11 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W305	2443581.09	1978 Mar 13 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W306	2443581.10	1978 Mar 13 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W307	2443581.25	1978 Mar 13 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W308	2443581.29	1978 Mar 13 1901:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-A10	2443581.38	1978 Mar 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	44	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W309	2443581.42	1978 Mar 13 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W311	2443583.10	1978 Mar 15 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W312	2443583.10	1978 Mar 15 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W313	2443583.15	1978 Mar 15 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-Y114	2443583.19	1978 Mar 15 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W314	2443583.19	1978 Mar 15 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W315	2443583.20	1978 Mar 15 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-Y115	2443583.25	1978 Mar 15 1803:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-W317	2443583.27	1978 Mar 15 1825:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1978-Y117	2443583.38	1978 Mar 15 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W318	2443583.40	1978 Mar 15 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1978-W320	2443583.58	1978 Mar 16 0152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-Y119	2443584.39	1978 Mar 16 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W323	2443585.09	1978 Mar 17 1403:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1978-W324	2443585.21	1978 Mar 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-W325	2443585.21	1978 Mar 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W326	2443585.25	1978 Mar 17 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1978-W329	2443588.10	1978 Mar 20 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1978-W330	2443588.21	1978 Mar 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W331	2443588.21	1978 Mar 20 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W332	2443588.23	1978 Mar 20 1726:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1978-W333	2443588.38	1978 Mar 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1978-W334	2443588.38	1978 Mar 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1978-W338	2443589.40	1978 Mar 21 2133:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W340	2443590.10	1978 Mar 22 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W341	2443590.16	1978 Mar 22 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W343	2443590.21	1978 Mar 22 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W344	2443590.21	1978 Mar 22 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-Y125	2443590.25	1978 Mar 22 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W346	2443590.26	1978 Mar 22 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W348	2443590.36	1978 Mar 22 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-Y126	2443590.37	1978 Mar 22 2055:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W349	2443590.38	1978 Mar 22 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1978-W350	2443590.40	1978 Mar 22 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	71	-	-
1978-W351	2443590.55	1978 Mar 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W352	2443591.37	1978 Mar 23 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1978-W354	2443591.85	1978 Mar 24 0819:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W355	2443592.11	1978 Mar 24 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W356	2443592.23	1978 Mar 24 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W357	2443592.42	1978 Mar 24 2206:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1978-W358	2443592.55	1978 Mar 25 0115:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1978-W363	2443595.18	1978 Mar 27 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W364	2443595.21	1978 Mar 27 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1978-W365	2443595.23	1978 Mar 27 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-A12	2443595.38	1978 Mar 27 2106:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1978-W371	2443597.10	1978 Mar 29 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1978-W372	2443597.15	1978 Mar 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-W373	2443597.18	1978 Mar 29 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-Y134	2443597.24	1978 Mar 29 1740:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W374	2443597.24	1978 Mar 29 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W375	2443597.31	1978 Mar 29 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W378	2443598.03	1978 Mar 30 1240:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W380	2443598.38	1978 Mar 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1978-W385	2443599.12	1978 Mar 31 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W387	2443599.18	1978 Mar 31 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1978-W388	2443599.22	1978 Mar 31 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W389	2443599.35	1978 Mar 31 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-A13	2443599.39	1978 Mar 31 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	45	-	-
1978-W392	2443602.10	1978 Apr 3 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W393	2443602.19	1978 Apr 3 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W394	2443602.30	1978 Apr 3 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-Y143	2443604.18	1978 Apr 5 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W395	2443604.18	1978 Apr 5 1620:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1978-W396	2443604.18	1978 Apr 5 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-Y144	2443604.23	1978 Apr 5 1727:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-W397	2443604.24	1978 Apr 5 1752:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1978-W398	2443604.33	1978 Apr 5 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-Y146	2443604.35	1978 Apr 5 2026:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W399	2443604.37	1978 Apr 5 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1978-W401	2443605.45	1978 Apr 6 2252:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	60	-	-
1978-W402	2443606.17	1978 Apr 7 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W403	2443606.20	1978 Apr 7 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-W404	2443606.21	1978 Apr 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W405	2443606.25	1978 Apr 7 1753:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W406	2443606.38	1978 Apr 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1978-W407	2443606.53	1978 Apr 8 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W410	2443609.19	1978 Apr 10 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W411	2443609.21	1978 Apr 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W412	2443609.21	1978 Apr 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W413	2443609.38	1978 Apr 10 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1978-W414	2443609.40	1978 Apr 10 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	61	-	-
1978-W416	2443610.08	1978 Apr 11 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W419	2443611.15	1978 Apr 12 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1978-W420	2443611.17	1978 Apr 12 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W423	2443611.21	1978 Apr 12 1700:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	66	-	-
1978-W424	2443611.21	1978 Apr 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W425	2443611.26	1978 Apr 12 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-Y155	2443611.27	1978 Apr 12 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1978-W426	2443611.28	1978 Apr 12 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	52	-	-
1978-W427	2443611.32	1978 Apr 12 1946:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-Y156	2443611.38	1978 Apr 12 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W428	2443611.39	1978 Apr 12 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1978-W429	2443611.54	1978 Apr 13 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	61	-	-
1978-W430	2443612.21	1978 Apr 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W431	2443613.13	1978 Apr 14 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W432	2443613.19	1978 Apr 14 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W433	2443613.21	1978 Apr 14 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W434	2443613.21	1978 Apr 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W435	2443613.23	1978 Apr 14 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W436	2443613.34	1978 Apr 14 2009:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-A15	2443613.54	1978 Apr 15 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1978-W438	2443616.11	1978 Apr 17 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	58	-	-
1978-W439	2443616.21	1978 Apr 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1978-W440	2443616.25	1978 Apr 17 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W442	2443616.31	1978 Apr 17 1926:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W443	2443617.21	1978 Apr 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-A16	2443617.56	1978 Apr 19 0119:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W445	2443618.08	1978 Apr 19 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W446	2443618.11	1978 Apr 19 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W448	2443618.17	1978 Apr 19 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y160	2443618.26	1978 Apr 19 1814:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-Y161	2443618.27	1978 Apr 19 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W449	2443618.28	1978 Apr 19 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-Y162	2443618.34	1978 Apr 19 2007:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W450	2443618.35	1978 Apr 19 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1978-W451	2443619.21	1978 Apr 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-A17	2443619.38	1978 Apr 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1978-W452	2443620.10	1978 Apr 21 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W453	2443620.15	1978 Apr 21 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-A18	2443620.39	1978 Apr 21 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-W455	2443620.55	1978 Apr 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W456	2443623.09	1978 Apr 24 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W457	2443623.21	1978 Apr 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W458	2443623.37	1978 Apr 24 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-W459	2443623.55	1978 Apr 25 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W460	2443625.15	1978 Apr 26 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-Y173	2443625.19	1978 Apr 26 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W462	2443625.20	1978 Apr 26 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W463	2443625.21	1978 Apr 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W464	2443626.25	1978 Apr 27 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W465	2443626.40	1978 Apr 27 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W466	2443627.14	1978 Apr 28 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W467	2443627.21	1978 Apr 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W470	2443627.37	1978 Apr 28 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W474	2443630.12	1978 May 1 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W476	2443630.21	1978 May 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1978-W477	2443630.24	1978 May 1 1752:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1978-W478	2443630.38	1978 May 1 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W479	2443631.21	1978 May 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1978-W480	2443631.41	1978 May 2 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W482	2443632.11	1978 May 3 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-W483	2443632.12	1978 May 3 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-Y178	2443632.17	1978 May 3 1558:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W484	2443632.19	1978 May 3 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1978-W485	2443632.25	1978 May 3 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W486	2443632.26	1978 May 3 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W487	2443632.56	1978 May 4 0124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W488	2443633.18	1978 May 4 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-A20	2443633.33	1978 May 4 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-W490	2443634.11	1978 May 5 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W491	2443634.13	1978 May 5 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W492	2443634.16	1978 May 5 1553:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1978-W493	2443634.21	1978 May 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W494	2443634.41	1978 May 5 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	62	-	-
1978-W496	2443637.10	1978 May 8 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W497	2443637.11	1978 May 8 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W498	2443637.23	1978 May 8 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W499	2443637.25	1978 May 8 1754:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1978-W500	2443637.33	1978 May 8 2001:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1978-W501	2443637.55	1978 May 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W502	2443638.21	1978 May 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W503	2443638.33	1978 May 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1978-W506	2443639.11	1978 May 10 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-Y182	2443639.24	1978 May 10 1749:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W508	2443639.25	1978 May 10 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-Y183	2443639.31	1978 May 10 1926:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-W509	2443639.33	1978 May 10 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-Y184	2443639.33	1978 May 10 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W510	2443639.33	1978 May 10 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1978-W511	2443639.36	1978 May 10 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W512	2443639.41	1978 May 10 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W513	2443640.29	1978 May 11 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W514	2443641.11	1978 May 12 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W515	2443641.17	1978 May 12 1602:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W517	2443641.19	1978 May 12 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1978-W518	2443641.24	1978 May 12 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	51	-	-
1978-W519	2443641.38	1978 May 12 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1978-W520	2443641.55	1978 May 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1978-W522	2443644.21	1978 May 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W523	2443644.21	1978 May 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W524	2443644.27	1978 May 15 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-Y185	2443644.33	1978 May 15 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W525	2443644.34	1978 May 15 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1978-Y186	2443644.37	1978 May 15 2052:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1978-W526	2443644.38	1978 May 15 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1978-W527	2443644.57	1978 May 16 0140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W530	2443646.12	1978 May 17 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W531	2443646.13	1978 May 17 1502:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	65	-	-
1978-W533	2443646.14	1978 May 17 1514:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	65	-	-
1978-W535	2443646.18	1978 May 17 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y189	2443646.18	1978 May 17 1619:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W536	2443646.19	1978 May 17 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-Y190	2443646.19	1978 May 17 1636:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1978-W537	2443646.21	1978 May 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W539	2443646.21	1978 May 17 1702:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	65	-	-
1978-W540	2443646.22	1978 May 17 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W542	2443646.28	1978 May 17 1843:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	66	-	-
1978-W543	2443646.30	1978 May 17 1904:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	64	-	-
1978-W545	2443646.32	1978 May 17 1947:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	67	-	-
1978-W548	2443646.33	1978 May 17 2000:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	54	-	-
1978-W549	2443646.55	1978 May 18 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W550	2443646.99	1978 May 18 1140:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W551	2443647.10	1978 May 18 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1978-W552	2443647.14	1978 May 18 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W553	2443647.15	1978 May 18 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1978-W554	2443647.25	1978 May 18 1759:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1978-W555	2443647.25	1978 May 18 1803:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1978-W556	2443647.33	1978 May 18 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1978-W557	2443647.43	1978 May 18 2219:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W558	2443648.13	1978 May 19 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W560	2443648.20	1978 May 19 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W561	2443648.23	1978 May 19 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1978-W562	2443648.24	1978 May 19 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1978-W563	2443648.38	1978 May 19 2106:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W564	2443651.09	1978 May 22 1408:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1978-W565	2443651.09	1978 May 22 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-W566	2443651.13	1978 May 22 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W567	2443651.13	1978 May 22 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W568	2443651.17	1978 May 22 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W569	2443651.22	1978 May 22 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W570	2443651.30	1978 May 22 1906:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1978-W571	2443651.55	1978 May 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W572	2443652.11	1978 May 23 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1978-W573	2443652.11	1978 May 23 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W574	2443652.17	1978 May 23 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-A23	2443652.33	1978 May 23 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W578	2443653.12	1978 May 24 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W579	2443653.13	1978 May 24 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1978-W580	2443653.14	1978 May 24 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1978-W582	2443653.22	1978 May 24 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W584	2443653.28	1978 May 24 1836:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-Y197	2443653.29	1978 May 24 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1978-W585	2443653.30	1978 May 24 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-A24	2443653.35	1978 May 24 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-W586	2443654.09	1978 May 25 1403:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W587	2443654.09	1978 May 25 1409:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1978-W588	2443654.19	1978 May 25 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W589	2443655.09	1978 May 26 1414:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1978-W590	2443655.10	1978 May 26 1419:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W592	2443655.11	1978 May 26 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W593	2443655.21	1978 May 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W594	2443655.26	1978 May 26 1812:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	73	-	-
1978-W595	2443655.28	1978 May 26 1837:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-A25	2443655.33	1978 May 26 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-W596	2443655.40	1978 May 26 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W598	2443658.10	1978 May 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1978-W599	2443659.21	1978 May 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W600	2443659.25	1978 May 30 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-W601	2443659.25	1978 May 30 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1978-W603	2443660.09	1978 May 31 1407:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W604	2443660.11	1978 May 31 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W605	2443660.11	1978 May 31 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W606	2443660.11	1978 May 31 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1978-Y205	2443660.25	1978 May 31 1754:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-Y206	2443660.26	1978 May 31 1814:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1978-W608	2443660.26	1978 May 31 1819:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W609	2443660.27	1978 May 31 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y207	2443660.33	1978 May 31 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W610	2443660.35	1978 May 31 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1978-W611	2443661.25	1978 Jun 1 1759:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1978-W612	2443662.10	1978 Jun 2 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1978-W613	2443662.12	1978 Jun 2 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1978-W614	2443662.12	1978 Jun 2 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1978-W615	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	53	-	-
1978-A26	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	47	-	-
1978-W616	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W617	2443662.55	1978 Jun 3 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W618	2443665.10	1978 Jun 5 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W619	2443665.16	1978 Jun 5 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1978-W620	2443665.17	1978 Jun 5 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W621	2443665.26	1978 Jun 5 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1978-W622	2443665.37	1978 Jun 5 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1978-W625	2443667.11	1978 Jun 7 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W626	2443667.12	1978 Jun 7 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1978-Y212	2443667.18	1978 Jun 7 1619:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-Y213	2443667.19	1978 Jun 7 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1978-W627	2443667.20	1978 Jun 7 1642:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W628	2443667.20	1978 Jun 7 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W630	2443667.21	1978 Jun 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W631	2443667.33	1978 Jun 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1978-W632	2443669.13	1978 Jun 9 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W633	2443669.21	1978 Jun 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W634	2443669.25	1978 Jun 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1978-W635	2443669.25	1978 Jun 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W636	2443669.27	1978 Jun 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W637	2443672.19	1978 Jun 12 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W638	2443672.21	1978 Jun 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W639	2443672.24	1978 Jun 12 1752:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1978-W640	2443672.27	1978 Jun 12 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1978-W641	2443672.39	1978 Jun 12 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W642	2443673.17	1978 Jun 13 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W645	2443674.13	1978 Jun 14 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W646	2443674.21	1978 Jun 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W648	2443674.22	1978 Jun 14 1711:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	57	-	-
1978-Y219	2443674.25	1978 Jun 14 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W650	2443674.25	1978 Jun 14 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W652	2443674.26	1978 Jun 14 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W653	2443674.27	1978 Jun 14 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1978-W654	2443674.27	1978 Jun 14 1833:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W655	2443675.35	1978 Jun 15 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W656	2443676.08	1978 Jun 16 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1978-W657	2443676.12	1978 Jun 16 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W658	2443676.16	1978 Jun 16 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W659	2443676.17	1978 Jun 16 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1978-W660	2443676.25	1978 Jun 16 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W661	2443676.50	1978 Jun 17 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1978-W662	2443676.52	1978 Jun 17 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1978-W663	2443679.11	1978 Jun 19 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W664	2443679.21	1978 Jun 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W665	2443679.24	1978 Jun 19 1752:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W666	2443679.27	1978 Jun 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W667	2443679.33	1978 Jun 19 1956:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1978-W668	2443679.35	1978 Jun 19 2018:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1978-W669	2443680.21	1978 Jun 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W670	2443680.33	1978 Jun 20 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1978-W671	2443681.09	1978 Jun 21 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W672	2443681.13	1978 Jun 21 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-Y225	2443681.18	1978 Jun 21 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W675	2443681.19	1978 Jun 21 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W676	2443681.19	1978 Jun 21 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-Y227	2443681.25	1978 Jun 21 1755:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W677	2443681.25	1978 Jun 21 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1978-Y228	2443681.55	1978 Jun 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W678	2443683.13	1978 Jun 23 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W679	2443683.15	1978 Jun 23 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W680	2443683.19	1978 Jun 23 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W681	2443683.21	1978 Jun 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W682	2443683.24	1978 Jun 23 1752:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W683	2443683.37	1978 Jun 23 2059:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1978-W684	2443686.12	1978 Jun 26 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W685	2443686.21	1978 Jun 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W686	2443686.25	1978 Jun 26 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W687	2443686.26	1978 Jun 26 1813:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1978-A28	2443686.34	1978 Jun 26 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-W688	2443687.16	1978 Jun 27 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W689	2443687.42	1978 Jun 27 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W692	2443688.12	1978 Jun 28 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W693	2443688.13	1978 Jun 28 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W694	2443688.15	1978 Jun 28 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-Y235	2443688.21	1978 Jun 28 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W697	2443688.21	1978 Jun 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W698	2443688.22	1978 Jun 28 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y237	2443688.29	1978 Jun 28 1853:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-A30	2443688.34	1978 Jun 28 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y238	2443688.38	1978 Jun 28 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W699	2443688.39	1978 Jun 28 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W700	2443688.39	1978 Jun 28 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	70	-	-
1978-W701	2443688.55	1978 Jun 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W703	2443690.13	1978 Jun 30 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W704	2443690.25	1978 Jun 30 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W705	2443690.25	1978 Jun 30 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W706	2443690.38	1978 Jun 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	53	-	-
1978-W707	2443690.59	1978 Jul 1 0204:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W708	2443693.11	1978 Jul 3 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W709	2443693.25	1978 Jul 3 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W710	2443693.55	1978 Jul 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1978-W711	2443693.93	1978 Jul 4 1015:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	60	-	-
1978-W713	2443695.11	1978 Jul 5 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1978-W714	2443695.15	1978 Jul 5 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W715	2443695.15	1978 Jul 5 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1978-W716	2443695.18	1978 Jul 5 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-Y243	2443695.21	1978 Jul 5 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W718	2443695.21	1978 Jul 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1978-W719	2443695.22	1978 Jul 5 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-Y244	2443695.22	1978 Jul 5 1722:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-Y245	2443695.33	1978 Jul 5 1957:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W720	2443695.35	1978 Jul 5 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	71	-	-
1978-W721	2443695.39	1978 Jul 5 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W722	2443696.21	1978 Jul 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W723	2443697.09	1978 Jul 7 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	55	-	-
1978-W724	2443697.13	1978 Jul 7 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W725	2443697.32	1978 Jul 7 1933:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W726	2443697.56	1978 Jul 8 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W727	2443700.08	1978 Jul 10 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W729	2443700.11	1978 Jul 10 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W730	2443700.25	1978 Jul 10 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W731	2443700.27	1978 Jul 10 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-A33	2443700.28	1978 Jul 10 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	47	-	-
1978-W732	2443700.43	1978 Jul 10 2223:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W733	2443702.11	1978 Jul 12 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W734	2443702.12	1978 Jul 12 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1978-W735	2443702.15	1978 Jul 12 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1978-W736	2443702.17	1978 Jul 12 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y254	2443702.18	1978 Jul 12 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-Y255	2443702.19	1978 Jul 12 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W737	2443702.21	1978 Jul 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-Y256	2443702.22	1978 Jul 12 1715:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-Y257	2443702.29	1978 Jul 12 1855:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-W741	2443702.30	1978 Jul 12 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W742	2443702.55	1978 Jul 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-Y259	2443703.42	1978 Jul 13 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W743	2443704.14	1978 Jul 14 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W745	2443704.20	1978 Jul 14 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W746	2443704.21	1978 Jul 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W747	2443704.37	1978 Jul 14 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1978-W748	2443707.14	1978 Jul 17 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W749	2443707.19	1978 Jul 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1978-W751	2443707.21	1978 Jul 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	52	-	-
1978-W752	2443707.25	1978 Jul 17 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	52	-	-
1978-W753	2443708.46	1978 Jul 18 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W754	2443708.75	1978 Jul 19 0555:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W755	2443708.96	1978 Jul 19 1100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1978-W756	2443709.11	1978 Jul 19 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W757	2443709.12	1978 Jul 19 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1978-Y266	2443709.14	1978 Jul 19 1523:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1978-W758	2443709.16	1978 Jul 19 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W761	2443709.23	1978 Jul 19 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1978-Y267	2443709.25	1978 Jul 19 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W762	2443709.26	1978 Jul 19 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W763	2443709.26	1978 Jul 19 1815:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W764	2443709.49	1978 Jul 19 2346:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1978-W765	2443709.75	1978 Jul 20 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W766	2443709.98	1978 Jul 20 1130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W767	2443710.17	1978 Jul 20 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W768	2443710.40	1978 Jul 20 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1978-W769	2443710.58	1978 Jul 21 0200:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W771	2443711.21	1978 Jul 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W772	2443711.42	1978 Jul 21 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W774	2443714.12	1978 Jul 24 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1978-W775	2443714.21	1978 Jul 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1978-W776	2443714.23	1978 Jul 24 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W777	2443714.55	1978 Jul 25 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W778	2443715.26	1978 Jul 25 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	52	-	-
1978-W779	2443715.62	1978 Jul 26 0249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W780	2443716.08	1978 Jul 26 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W781	2443716.11	1978 Jul 26 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1978-W782	2443716.13	1978 Jul 26 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-Y272	2443716.20	1978 Jul 26 1652:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1978-W784	2443716.22	1978 Jul 26 1723:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1978-A35	2443716.34	1978 Jul 26 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	39	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y273	2443716.35	1978 Jul 26 2018:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W785	2443716.37	1978 Jul 26 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1978-W786	2443716.42	1978 Jul 26 2210:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-Y274	2443716.44	1978 Jul 26 2230:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W787	2443718.09	1978 Jul 28 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W791	2443718.20	1978 Jul 28 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1978-W792	2443718.25	1978 Jul 28 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W793	2443718.27	1978 Jul 28 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W794	2443718.55	1978 Jul 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1978-W798	2443721.15	1978 Jul 31 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W799	2443721.21	1978 Jul 31 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W800	2443721.21	1978 Jul 31 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1978-W801	2443721.41	1978 Jul 31 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W802	2443723.11	1978 Aug 2 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-Y279	2443723.18	1978 Aug 2 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-Y280	2443723.18	1978 Aug 2 1624:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W803	2443723.19	1978 Aug 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W804	2443723.20	1978 Aug 2 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W805	2443723.21	1978 Aug 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-Y281	2443723.35	1978 Aug 2 2020:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-Y282	2443723.40	1978 Aug 2 2136:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W807	2443723.43	1978 Aug 2 2212:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1978-W808	2443723.60	1978 Aug 3 0229:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W809	2443724.43	1978 Aug 3 2225:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1978-W810	2443725.13	1978 Aug 4 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1978-W812	2443725.21	1978 Aug 4 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W813	2443725.25	1978 Aug 4 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W814	2443728.15	1978 Aug 7 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1978-W815	2443728.19	1978 Aug 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W816	2443728.21	1978 Aug 7 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	51	-	-
1978-W817	2443728.25	1978 Aug 7 1753:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W818	2443728.38	1978 Aug 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-W819	2443729.36	1978 Aug 8 2043:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	71	-	-
1978-W820	2443729.41	1978 Aug 8 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W822	2443730.12	1978 Aug 9 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1978-W823	2443730.13	1978 Aug 9 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W824	2443730.21	1978 Aug 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-Y289	2443730.21	1978 Aug 9 1701:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W825	2443730.23	1978 Aug 9 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-Y290	2443730.24	1978 Aug 9 1745:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W826	2443730.25	1978 Aug 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W827	2443730.27	1978 Aug 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1978-Y292	2443730.42	1978 Aug 9 2159:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W828	2443730.55	1978 Aug 10 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1978-W829	2443731.18	1978 Aug 10 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W831	2443732.12	1978 Aug 11 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W832	2443732.21	1978 Aug 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W833	2443732.21	1978 Aug 11 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-W834	2443732.34	1978 Aug 11 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	53	-	-
1978-W835	2443732.40	1978 Aug 11 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-W837	2443735.12	1978 Aug 14 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W838	2443735.21	1978 Aug 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W839	2443735.27	1978 Aug 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W840	2443735.38	1978 Aug 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-W842	2443735.55	1978 Aug 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W843	2443736.21	1978 Aug 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-A36	2443736.33	1978 Aug 15 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1978-W844	2443737.08	1978 Aug 16 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W846	2443737.10	1978 Aug 16 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1978-Y303	2443737.21	1978 Aug 16 1658:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W851	2443737.27	1978 Aug 16 1825:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W852	2443737.27	1978 Aug 16 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1978-Y305	2443737.33	1978 Aug 16 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W853	2443737.34	1978 Aug 16 2012:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W854	2443737.35	1978 Aug 16 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1978-Y306	2443737.38	1978 Aug 16 2100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W855	2443737.40	1978 Aug 16 2141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W856	2443739.14	1978 Aug 18 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W858	2443739.19	1978 Aug 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W859	2443739.20	1978 Aug 18 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W860	2443739.21	1978 Aug 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W861	2443739.34	1978 Aug 18 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1978-A37	2443739.39	1978 Aug 18 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1978-W862	2443739.55	1978 Aug 19 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-W863	2443742.09	1978 Aug 21 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W864	2443742.15	1978 Aug 21 1535:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1978-W866	2443742.17	1978 Aug 21 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-A38	2443742.27	1978 Aug 21 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1978-W867	2443742.27	1978 Aug 21 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1978-W868	2443742.38	1978 Aug 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W869	2443742.55	1978 Aug 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W871	2443744.12	1978 Aug 23 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1978-Y315	2443744.19	1978 Aug 23 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W873	2443744.20	1978 Aug 23 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W874	2443744.23	1978 Aug 23 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-A39	2443744.23	1978 Aug 23 1731:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	39	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W876	2443744.26	1978 Aug 23 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1978-W877	2443744.28	1978 Aug 23 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1978-W878	2443744.34	1978 Aug 23 2008:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1978-Y317	2443744.36	1978 Aug 23 2034:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W879	2443744.49	1978 Aug 23 2338:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1978-W882	2443745.22	1978 Aug 24 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-A40	2443745.34	1978 Aug 24 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W883	2443745.40	1978 Aug 24 2138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-W884	2443746.12	1978 Aug 25 1454:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W886	2443746.21	1978 Aug 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W888	2443746.25	1978 Aug 25 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-A41	2443749.16	1978 Aug 28 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	48	-	-
1978-W891	2443749.17	1978 Aug 28 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W892	2443749.18	1978 Aug 28 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W894	2443749.21	1978 Aug 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W895	2443749.25	1978 Aug 28 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-A42	2443749.54	1978 Aug 29 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W896	2443749.55	1978 Aug 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1978-W900	2443751.11	1978 Aug 30 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1978-W901	2443751.13	1978 Aug 30 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1978-W902	2443751.21	1978 Aug 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-Y326	2443751.29	1978 Aug 30 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W903	2443751.30	1978 Aug 30 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W904	2443751.32	1978 Aug 30 1938:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1978-W905	2443751.36	1978 Aug 30 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W906	2443751.46	1978 Aug 30 2307:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1978-W907	2443752.04	1978 Aug 31 1303:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	55	-	-
1978-W909	2443752.08	1978 Aug 31 1356:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1978-W911	2443752.25	1978 Aug 31 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1978-W912	2443752.36	1978 Aug 31 2036:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W914	2443753.08	1978 Sep 1 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W916	2443753.10	1978 Sep 1 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W917	2443753.16	1978 Sep 1 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W918	2443753.25	1978 Sep 1 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W919	2443753.26	1978 Sep 1 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W920	2443753.38	1978 Sep 1 2113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-W921	2443753.50	1978 Sep 2 0002:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1978-W922	2443753.56	1978 Sep 2 0125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W923	2443756.13	1978 Sep 4 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-A43	2443757.35	1978 Sep 5 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1978-W924	2443757.42	1978 Sep 5 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W926	2443758.08	1978 Sep 6 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W927	2443758.12	1978 Sep 6 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W928	2443758.15	1978 Sep 6 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	59	-	-
1978-W929	2443758.19	1978 Sep 6 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1978-Y337	2443758.21	1978 Sep 6 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W930	2443758.22	1978 Sep 6 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y338	2443758.38	1978 Sep 6 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W931	2443758.41	1978 Sep 6 2148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1978-W932	2443758.43	1978 Sep 6 2222:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W933	2443758.63	1978 Sep 7 0310:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1978-W936	2443760.12	1978 Sep 8 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W937	2443760.18	1978 Sep 8 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-A44	2443760.21	1978 Sep 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	44	-	-
1978-W938	2443760.27	1978 Sep 8 1826:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1978-W939	2443760.27	1978 Sep 8 1833:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W940	2443760.55	1978 Sep 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1978-W941	2443763.09	1978 Sep 11 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W943	2443763.26	1978 Sep 11 1818:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1978-W944	2443763.29	1978 Sep 11 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1978-W945	2443763.35	1978 Sep 11 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1978-W946	2443763.65	1978 Sep 12 0330:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W947	2443764.40	1978 Sep 12 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W951	2443765.13	1978 Sep 13 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1978-W952	2443765.15	1978 Sep 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W953	2443765.15	1978 Sep 13 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1978-W954	2443765.21	1978 Sep 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1978-Y344	2443765.24	1978 Sep 13 1742:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W955	2443765.25	1978 Sep 13 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-Y345	2443765.40	1978 Sep 13 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W956	2443765.42	1978 Sep 13 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1978-W957	2443765.49	1978 Sep 13 2340:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1978-W958	2443766.41	1978 Sep 14 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1978-W961	2443767.16	1978 Sep 15 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W962	2443767.21	1978 Sep 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W963	2443767.28	1978 Sep 15 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-Y348	2443767.39	1978 Sep 15 2122:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W964	2443770.17	1978 Sep 18 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W965	2443770.19	1978 Sep 18 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W967	2443770.21	1978 Sep 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W968	2443770.25	1978 Sep 18 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1978-A48	2443770.35	1978 Sep 18 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W969	2443770.56	1978 Sep 19 0125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W970	2443771.17	1978 Sep 19 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W973	2443772.10	1978 Sep 20 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-W974	2443772.15	1978 Sep 20 1529:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W975	2443772.16	1978 Sep 20 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1978-Y351	2443772.16	1978 Sep 20 1556:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W977	2443772.21	1978 Sep 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1978-W979	2443772.23	1978 Sep 20 1733:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W981	2443772.27	1978 Sep 20 1825:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1978-Y353	2443772.28	1978 Sep 20 1845:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1978-W982	2443772.29	1978 Sep 20 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W984	2443772.35	1978 Sep 20 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1978-W985	2443772.39	1978 Sep 20 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y354	2443772.40	1978 Sep 20 2132:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W986	2443772.41	1978 Sep 20 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1978-W988	2443774.08	1978 Sep 22 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W990	2443774.12	1978 Sep 22 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W991	2443774.14	1978 Sep 22 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1978-Y356	2443774.16	1978 Sep 22 1553:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W992	2443774.19	1978 Sep 22 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W993	2443774.35	1978 Sep 22 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W994	2443774.40	1978 Sep 22 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W27	2443877.06	1979 Jan 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1979-W28	2443877.06	1979 Jan 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W29	2443877.12	1979 Jan 3 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-Y04	2443877.16	1979 Jan 3 1548:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W30	2443877.18	1979 Jan 3 1612:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1979-W31	2443877.31	1979 Jan 3 1920:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-Y06	2443877.32	1979 Jan 3 1944:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W32	2443877.33	1979 Jan 3 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W33	2443878.41	1979 Jan 4 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W34	2443879.05	1979 Jan 5 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W35	2443879.07	1979 Jan 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-A01	2443879.11	1979 Jan 5 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	49	-	-
1979-W36	2443879.12	1979 Jan 5 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-Y08	2443879.16	1979 Jan 5 1545:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W37	2443879.19	1979 Jan 5 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W38	2443879.29	1979 Jan 5 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1979-W40	2443881.19	1979 Jan 7 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1979-W43	2443882.09	1979 Jan 8 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-W44	2443882.11	1979 Jan 8 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W45	2443882.12	1979 Jan 8 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W46	2443882.20	1979 Jan 8 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1979-W47	2443882.21	1979 Jan 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1979-W49	2443882.35	1979 Jan 8 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W50	2443882.55	1979 Jan 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W51	2443882.75	1979 Jan 9 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W52	2443883.15	1979 Jan 9 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1979-W55	2443883.29	1979 Jan 9 1901:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W56	2443883.33	1979 Jan 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W57	2443884.11	1979 Jan 10 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W58	2443884.12	1979 Jan 10 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-Y13	2443884.13	1979 Jan 10 1511:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W59	2443884.15	1979 Jan 10 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1979-W60	2443884.16	1979 Jan 10 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1979-W61	2443884.20	1979 Jan 10 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	76	-	-
1979-W62	2443884.22	1979 Jan 10 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-Y15	2443884.29	1979 Jan 10 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1979-W64	2443884.30	1979 Jan 10 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	74	-	-
1979-Y16	2443884.37	1979 Jan 10 2051:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W65	2443884.38	1979 Jan 10 2111:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1979-W66	2443884.39	1979 Jan 10 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W67	2443884.46	1979 Jan 10 2303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W70	2443885.30	1979 Jan 11 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W71	2443885.32	1979 Jan 11 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W72	2443885.57	1979 Jan 12 0138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W73	2443886.06	1979 Jan 12 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1979-W74	2443886.07	1979 Jan 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W75	2443886.15	1979 Jan 12 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	54	-	-
1979-W76	2443886.23	1979 Jan 12 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W77	2443886.29	1979 Jan 12 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W78	2443886.29	1979 Jan 12 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W80	2443889.06	1979 Jan 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W81	2443889.10	1979 Jan 15 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-W82	2443889.11	1979 Jan 15 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W83	2443889.20	1979 Jan 15 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W85	2443889.40	1979 Jan 15 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1979-W87	2443890.38	1979 Jan 16 2103:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1979-W88	2443890.41	1979 Jan 16 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1979-W89	2443891.04	1979 Jan 17 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W90	2443891.07	1979 Jan 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W91	2443891.10	1979 Jan 17 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W92	2443891.11	1979 Jan 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1979-Y28	2443891.19	1979 Jan 17 1631:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1979-W94	2443891.20	1979 Jan 17 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W95	2443891.20	1979 Jan 17 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	60	-	-
1979-W96	2443891.27	1979 Jan 17 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-Y29	2443891.31	1979 Jan 17 1921:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W98	2443891.32	1979 Jan 17 1943:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-Y30	2443891.33	1979 Jan 17 1954:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W99	2443891.34	1979 Jan 17 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1979-Y31	2443891.38	1979 Jan 17 2101:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1979-W100	2443891.40	1979 Jan 17 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1979-W101	2443891.57	1979 Jan 18 0142:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W102	2443892.22	1979 Jan 18 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1979-W104	2443892.75	1979 Jan 19 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W105	2443893.11	1979 Jan 19 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	77	-	-
1979-W106	2443893.11	1979 Jan 19 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W107	2443893.12	1979 Jan 19 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W109	2443893.20	1979 Jan 19 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W110	2443893.31	1979 Jan 19 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1979-W111	2443893.37	1979 Jan 19 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	51	-	-
1979-W112	2443893.41	1979 Jan 19 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W113	2443893.67	1979 Jan 20 0359:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W114	2443893.71	1979 Jan 20 0500:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W115	2443893.75	1979 Jan 20 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W116	2443893.79	1979 Jan 20 0702:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W117	2443893.90	1979 Jan 20 0930:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-Y39	2443896.07	1979 Jan 22 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1979-W118	2443896.12	1979 Jan 22 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W119	2443896.12	1979 Jan 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-W120	2443896.19	1979 Jan 22 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W121	2443896.20	1979 Jan 22 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W122	2443896.23	1979 Jan 22 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1979-W124	2443897.20	1979 Jan 23 1649:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	75	-	-
1979-W125	2443897.22	1979 Jan 23 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1979-W126	2443897.26	1979 Jan 23 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W127	2443897.27	1979 Jan 23 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W128	2443897.28	1979 Jan 23 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	74	-	-
1979-W129	2443897.72	1979 Jan 24 0520:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1979-W130	2443897.75	1979 Jan 24 0556:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W131	2443897.88	1979 Jan 24 0902:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W132	2443898.06	1979 Jan 24 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W133	2443898.08	1979 Jan 24 1351:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W134	2443898.09	1979 Jan 24 1413:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1979-W135	2443898.11	1979 Jan 24 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1979-W136	2443898.20	1979 Jan 24 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-Y48	2443898.29	1979 Jan 24 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W137	2443898.30	1979 Jan 24 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W138	2443898.31	1979 Jan 24 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W139	2443898.46	1979 Jan 24 2303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W140	2443899.13	1979 Jan 25 1510:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	70	-	-
1979-W141	2443899.18	1979 Jan 25 1622:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	61	-	-
1979-W142	2443899.27	1979 Jan 25 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-Y50	2443899.36	1979 Jan 25 2033:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1979-W143	2443899.38	1979 Jan 25 2100:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W145	2443900.06	1979 Jan 26 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W146	2443900.07	1979 Jan 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W147	2443900.11	1979 Jan 26 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W148	2443900.11	1979 Jan 26 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W149	2443900.23	1979 Jan 26 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W150	2443900.25	1979 Jan 26 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1979-W151	2443900.39	1979 Jan 26 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W155	2443903.08	1979 Jan 29 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W156	2443903.10	1979 Jan 29 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1979-W157	2443903.15	1979 Jan 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W158	2443903.21	1979 Jan 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W159	2443903.21	1979 Jan 29 1709:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W161	2443903.39	1979 Jan 29 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W162	2443903.55	1979 Jan 30 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1979-W163	2443904.29	1979 Jan 30 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	54	-	-
1979-W168	2443905.08	1979 Jan 31 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W169	2443905.11	1979 Jan 31 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W170	2443905.12	1979 Jan 31 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-Y67	2443905.13	1979 Jan 31 1510:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W171	2443905.15	1979 Jan 31 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W172	2443905.15	1979 Jan 31 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1979-Y68	2443905.20	1979 Jan 31 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W174	2443905.20	1979 Jan 31 1647:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W175	2443905.21	1979 Jan 31 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	73	-	-
1979-W176	2443905.22	1979 Jan 31 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-W177	2443905.28	1979 Jan 31 1843:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-Y69	2443905.37	1979 Jan 31 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1979-W178	2443905.39	1979 Jan 31 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1979-W179	2443905.49	1979 Jan 31 2346:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W181	2443906.29	1979 Feb 1 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1979-W182	2443906.42	1979 Feb 1 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1979-W184	2443907.05	1979 Feb 2 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W185	2443907.08	1979 Feb 2 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1979-W186	2443907.12	1979 Feb 2 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W187	2443907.20	1979 Feb 2 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W189	2443907.36	1979 Feb 2 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W190	2443910.06	1979 Feb 5 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1979-W191	2443910.08	1979 Feb 5 1357:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W192	2443910.11	1979 Feb 5 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W193	2443910.21	1979 Feb 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W194	2443910.21	1979 Feb 5 1706:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W195	2443910.25	1979 Feb 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W196	2443910.39	1979 Feb 5 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-A07	2443910.48	1979 Feb 5 2326:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	48	-	-
1979-W197	2443910.55	1979 Feb 6 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W198	2443911.29	1979 Feb 6 1856:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W199	2443911.29	1979 Feb 6 1900:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W203	2443912.06	1979 Feb 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W204	2443912.11	1979 Feb 7 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W205	2443912.12	1979 Feb 7 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W206	2443912.13	1979 Feb 7 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1979-Y85	2443912.16	1979 Feb 7 1549:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	82	-	-
1979-W208	2443912.21	1979 Feb 7 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1979-W209	2443912.25	1979 Feb 7 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-Y86	2443912.30	1979 Feb 7 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W211	2443912.31	1979 Feb 7 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1979-W212	2443912.31	1979 Feb 7 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1979-W213	2443912.42	1979 Feb 7 2210:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1979-W214	2443912.45	1979 Feb 7 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W215	2443912.47	1979 Feb 7 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1979-W217	2443913.29	1979 Feb 8 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W218	2443913.56	1979 Feb 9 0130:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W220	2443914.06	1979 Feb 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1979-W221	2443914.16	1979 Feb 9 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1979-W222	2443914.21	1979 Feb 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1979-W223	2443914.21	1979 Feb 9 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W224	2443914.24	1979 Feb 9 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-A09	2443914.29	1979 Feb 9 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	41	-	-
1979-W226	2443914.45	1979 Feb 9 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W227	2443914.66	1979 Feb 10 0345:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W228	2443917.07	1979 Feb 12 1347:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W229	2443917.20	1979 Feb 12 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W230	2443917.22	1979 Feb 12 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W231	2443917.25	1979 Feb 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W232	2443917.26	1979 Feb 12 1811:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-A10	2443917.39	1979 Feb 12 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1979-W234	2443917.44	1979 Feb 12 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1979-W235	2443917.55	1979 Feb 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W238	2443919.09	1979 Feb 14 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W239	2443919.12	1979 Feb 14 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-W240	2443919.15	1979 Feb 14 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W241	2443919.19	1979 Feb 14 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-Y103	2443919.27	1979 Feb 14 1824:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-Y104	2443919.29	1979 Feb 14 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W242	2443919.30	1979 Feb 14 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	54	-	-
1979-W244	2443919.32	1979 Feb 14 1938:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W245	2443919.34	1979 Feb 14 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-Y106	2443919.37	1979 Feb 14 2057:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1979-W246	2443919.39	1979 Feb 14 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1979-W247	2443919.46	1979 Feb 14 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	75	-	-
1979-W248	2443919.56	1979 Feb 15 0125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W249	2443920.13	1979 Feb 15 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1979-W250	2443920.24	1979 Feb 15 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W252	2443920.39	1979 Feb 15 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W253	2443920.57	1979 Feb 16 0145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W254	2443921.07	1979 Feb 16 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W255	2443921.07	1979 Feb 16 1347:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W256	2443921.11	1979 Feb 16 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-W257	2443921.11	1979 Feb 16 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W258	2443921.21	1979 Feb 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W259	2443921.33	1979 Feb 16 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W261	2443921.46	1979 Feb 16 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1979-W262	2443924.05	1979 Feb 19 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W263	2443924.07	1979 Feb 19 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W264	2443924.12	1979 Feb 19 1458:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1979-A11	2443924.12	1979 Feb 19 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	45	-	-
1979-W265	2443924.20	1979 Feb 19 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W267	2443924.66	1979 Feb 20 0344:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W268	2443925.21	1979 Feb 20 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W270	2443925.32	1979 Feb 20 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W271	2443925.45	1979 Feb 20 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W272	2443925.62	1979 Feb 21 0246:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W273	2443926.06	1979 Feb 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W274	2443926.08	1979 Feb 21 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1979-W275	2443926.13	1979 Feb 21 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W276	2443926.18	1979 Feb 21 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W277	2443926.20	1979 Feb 21 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1979-W278	2443926.23	1979 Feb 21 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-Y119	2443926.25	1979 Feb 21 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1979-W279	2443926.26	1979 Feb 21 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1979-W281	2443926.45	1979 Feb 21 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1979-W282	2443926.45	1979 Feb 21 2251:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W283	2443927.18	1979 Feb 22 1622:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1979-W284	2443927.28	1979 Feb 22 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W286	2443928.06	1979 Feb 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W287	2443928.09	1979 Feb 23 1408:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W288	2443928.12	1979 Feb 23 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1979-W289	2443928.21	1979 Feb 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W290	2443928.23	1979 Feb 23 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W291	2443928.34	1979 Feb 23 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W293	2443928.37	1979 Feb 23 2048:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1979-W294	2443928.37	1979 Feb 23 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W295	2443928.50	1979 Feb 23 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1979-W296	2443928.55	1979 Feb 24 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W297	2443931.03	1979 Feb 26 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W298	2443931.06	1979 Feb 26 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-W299	2443931.11	1979 Feb 26 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1979-W300	2443931.20	1979 Feb 26 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1979-W302	2443931.21	1979 Feb 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-W303	2443931.24	1979 Feb 26 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W305	2443931.37	1979 Feb 26 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1979-W306	2443931.40	1979 Feb 26 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W307	2443931.46	1979 Feb 26 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1979-W308	2443931.57	1979 Feb 27 0135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W313	2443932.15	1979 Feb 27 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W314	2443932.26	1979 Feb 27 1815:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W315	2443932.28	1979 Feb 27 1849:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W317	2443933.06	1979 Feb 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W320	2443933.10	1979 Feb 28 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W321	2443933.11	1979 Feb 28 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1979-W323	2443933.15	1979 Feb 28 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-Y131	2443933.19	1979 Feb 28 1626:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W324	2443933.20	1979 Feb 28 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1979-W325	2443933.21	1979 Feb 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-W327	2443933.25	1979 Feb 28 1754:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-Y132	2443933.27	1979 Feb 28 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W328	2443933.44	1979 Feb 28 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1979-W329	2443933.45	1979 Feb 28 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W331	2443934.24	1979 Mar 1 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W332	2443934.32	1979 Mar 1 1936:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W334	2443935.26	1979 Mar 2 1811:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W335	2443935.29	1979 Mar 2 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W336	2443935.37	1979 Mar 2 2059:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1979-Y135	2443935.39	1979 Mar 2 2124:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W337	2443935.41	1979 Mar 2 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W338	2443935.44	1979 Mar 2 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1979-W339	2443938.11	1979 Mar 5 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1979-W340	2443938.21	1979 Mar 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W341	2443938.31	1979 Mar 5 1923:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	78	-	-
1979-W343	2443938.42	1979 Mar 5 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W344	2443938.49	1979 Mar 5 2349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1979-W345	2443938.57	1979 Mar 6 0137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W347	2443940.12	1979 Mar 7 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-Y137	2443940.15	1979 Mar 7 1530:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W348	2443940.16	1979 Mar 7 1556:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1979-W349	2443940.25	1979 Mar 7 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1979-Y139	2443940.31	1979 Mar 7 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W350	2443940.31	1979 Mar 7 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W351	2443940.32	1979 Mar 7 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W353	2443940.45	1979 Mar 7 2252:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W354	2443940.48	1979 Mar 7 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1979-W356	2443941.33	1979 Mar 8 2001:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W357	2443942.11	1979 Mar 9 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W358	2443942.24	1979 Mar 9 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W360	2443942.38	1979 Mar 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-W361	2443942.39	1979 Mar 9 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1979-W362	2443942.47	1979 Mar 9 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1979-W363	2443942.56	1979 Mar 10 0129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W364	2443945.13	1979 Mar 12 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W365	2443945.24	1979 Mar 12 1748:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W366	2443945.25	1979 Mar 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-W367	2443945.31	1979 Mar 12 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W368	2443945.42	1979 Mar 12 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1979-W369	2443945.55	1979 Mar 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-Y144	2443947.14	1979 Mar 14 1514:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W372	2443947.15	1979 Mar 14 1536:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1979-Y145	2443947.29	1979 Mar 14 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W373	2443947.30	1979 Mar 14 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1979-Y146	2443947.31	1979 Mar 14 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1979-W374	2443947.33	1979 Mar 14 1952:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	78	-	-
1979-W375	2443947.35	1979 Mar 14 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-Y148	2443947.41	1979 Mar 14 2156:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1979-W376	2443947.42	1979 Mar 14 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	73	-	-
1979-W377	2443947.47	1979 Mar 14 2323:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1979-W378	2443947.48	1979 Mar 14 2329:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1979-W381	2443948.38	1979 Mar 15 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W382	2443948.40	1979 Mar 15 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	77	-	-
1979-W384	2443949.21	1979 Mar 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1979-W385	2443949.38	1979 Mar 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1979-W386	2443949.39	1979 Mar 16 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W387	2443949.41	1979 Mar 16 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W388	2443952.13	1979 Mar 19 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W389	2443952.14	1979 Mar 19 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1979-A15	2443952.26	1979 Mar 19 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	22	-	-
1979-W392	2443952.29	1979 Mar 19 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W393	2443952.37	1979 Mar 19 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1979-W394	2443952.38	1979 Mar 19 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1979-W395	2443952.55	1979 Mar 20 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W396	2443952.75	1979 Mar 20 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1979-W398	2443954.12	1979 Mar 21 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-W399	2443954.21	1979 Mar 21 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1979-W400	2443954.24	1979 Mar 21 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1979-Y172	2443954.29	1979 Mar 21 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-Y173	2443954.31	1979 Mar 21 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W402	2443954.31	1979 Mar 21 1931:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	74	-	-
1979-W403	2443954.33	1979 Mar 21 1953:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1979-W404	2443954.33	1979 Mar 21 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-Y174	2443954.40	1979 Mar 21 2132:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1979-W405	2443954.42	1979 Mar 21 2210:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1979-Y175	2443954.57	1979 Mar 22 0141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1979-A17	2443954.75	1979 Mar 22 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	48	-	-
1979-W407	2443956.11	1979 Mar 23 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-W408	2443956.27	1979 Mar 23 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W409	2443956.29	1979 Mar 23 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W410	2443956.31	1979 Mar 23 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W412	2443956.37	1979 Mar 23 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1979-W413	2443956.55	1979 Mar 24 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W414	2443956.71	1979 Mar 24 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1979-W416	2443959.13	1979 Mar 26 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W417	2443959.23	1979 Mar 26 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-W419	2443959.35	1979 Mar 26 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W420	2443959.38	1979 Mar 26 2107:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-W421	2443959.59	1979 Mar 27 0215:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W422	2443959.80	1979 Mar 27 0714:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1979-A18	2443960.38	1979 Mar 27 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1979-W424	2443961.11	1979 Mar 28 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-Y198	2443961.17	1979 Mar 28 1609:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1979-W425	2443961.19	1979 Mar 28 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1979-W426	2443961.21	1979 Mar 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-Y200	2443961.30	1979 Mar 28 1909:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W430	2443961.33	1979 Mar 28 1952:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1979-W431	2443961.38	1979 Mar 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W432	2443961.45	1979 Mar 28 2241:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1979-W433	2443961.81	1979 Mar 29 0730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1979-W434	2443962.38	1979 Mar 29 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1979-W435	2443963.11	1979 Mar 30 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W437	2443963.25	1979 Mar 30 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W438	2443963.29	1979 Mar 30 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W439	2443963.38	1979 Mar 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1979-W441	2443963.81	1979 Mar 31 0719:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1979-W443	2443966.05	1979 Apr 2 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W444	2443966.06	1979 Apr 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W446	2443966.29	1979 Apr 2 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W447	2443966.37	1979 Apr 2 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1979-A19	2443966.38	1979 Apr 2 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1979-W448	2443966.44	1979 Apr 2 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1979-W449	2443968.06	1979 Apr 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	76	-	-
1979-W450	2443968.06	1979 Apr 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-Y218	2443968.13	1979 Apr 4 1510:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	86	-	-
1979-W452	2443968.16	1979 Apr 4 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1979-W453	2443968.18	1979 Apr 4 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1979-Y220	2443968.29	1979 Apr 4 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W454	2443968.30	1979 Apr 4 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1979-Y221	2443968.33	1979 Apr 4 1949:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W455	2443968.35	1979 Apr 4 2019:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W456	2443968.38	1979 Apr 4 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1979-W457	2443968.40	1979 Apr 4 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1979-W458	2443968.45	1979 Apr 4 2249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W459	2443968.49	1979 Apr 4 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1979-W460	2443968.55	1979 Apr 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1979-W461	2443968.57	1979 Apr 5 0144:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W462	2443969.22	1979 Apr 5 1721:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1979-W464	2443969.38	1979 Apr 5 2100:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W467	2443969.44	1979 Apr 5 2233:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	51	-	-
1979-W468	2443970.05	1979 Apr 6 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W469	2443970.11	1979 Apr 6 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W471	2443970.16	1979 Apr 6 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W472	2443970.24	1979 Apr 6 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W473	2443970.32	1979 Apr 6 1940:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W474	2443970.37	1979 Apr 6 2047:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1979-W475	2443970.55	1979 Apr 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W476	2443973.04	1979 Apr 9 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W477	2443973.13	1979 Apr 9 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W478	2443973.37	1979 Apr 9 2059:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1979-W479	2443973.41	1979 Apr 9 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W480	2443973.42	1979 Apr 9 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1979-W481	2443973.55	1979 Apr 10 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1979-W482	2443975.06	1979 Apr 11 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W483	2443975.07	1979 Apr 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W484	2443975.12	1979 Apr 11 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y245	2443975.13	1979 Apr 11 1510:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W486	2443975.15	1979 Apr 11 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1979-W488	2443975.28	1979 Apr 11 1836:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W489	2443975.32	1979 Apr 11 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W490	2443975.42	1979 Apr 11 2203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1979-W491	2443975.45	1979 Apr 11 2249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W492	2443976.31	1979 Apr 12 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W493	2443977.06	1979 Apr 13 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W494	2443977.06	1979 Apr 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W495	2443977.13	1979 Apr 13 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W497	2443977.27	1979 Apr 13 1822:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1979-W498	2443977.47	1979 Apr 13 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W499	2443980.06	1979 Apr 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W500	2443980.12	1979 Apr 16 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W501	2443980.20	1979 Apr 16 1652:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1979-W502	2443980.29	1979 Apr 16 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W503	2443980.42	1979 Apr 16 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W504	2443980.55	1979 Apr 17 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W505	2443980.77	1979 Apr 17 0630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1979-W506	2443982.06	1979 Apr 18 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W507	2443982.06	1979 Apr 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W508	2443982.10	1979 Apr 18 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1979-W509	2443982.11	1979 Apr 18 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y252	2443982.14	1979 Apr 18 1520:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W510	2443982.16	1979 Apr 18 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1979-W511	2443982.21	1979 Apr 18 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1979-Y253	2443982.29	1979 Apr 18 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W512	2443982.31	1979 Apr 18 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W513	2443982.37	1979 Apr 18 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1979-W514	2443982.55	1979 Apr 19 0109:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W515	2443983.42	1979 Apr 19 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	75	-	-
1979-W516	2443983.42	1979 Apr 19 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W517	2443984.08	1979 Apr 20 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W518	2443984.09	1979 Apr 20 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W519	2443984.11	1979 Apr 20 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-W520	2443984.21	1979 Apr 20 1706:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W521	2443984.31	1979 Apr 20 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W522	2443984.37	1979 Apr 20 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1979-W523	2443984.46	1979 Apr 20 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1979-W524	2443984.55	1979 Apr 21 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1979-W525	2443984.56	1979 Apr 21 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1979-W529	2443987.07	1979 Apr 23 1334:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W530	2443987.11	1979 Apr 23 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W532	2443987.21	1979 Apr 23 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W533	2443987.33	1979 Apr 23 1956:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W534	2443987.42	1979 Apr 23 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W535	2443987.49	1979 Apr 23 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1979-W537	2443989.09	1979 Apr 25 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W538	2443989.11	1979 Apr 25 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-Y261	2443989.14	1979 Apr 25 1517:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W539	2443989.18	1979 Apr 25 1625:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	53	-	-
1979-W540	2443989.20	1979 Apr 25 1647:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W541	2443989.23	1979 Apr 25 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1979-W542	2443989.23	1979 Apr 25 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-Y263	2443989.39	1979 Apr 25 2114:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W543	2443989.40	1979 Apr 25 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W544	2443989.45	1979 Apr 25 2248:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1979-W545	2443989.47	1979 Apr 25 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1979-W546	2443990.39	1979 Apr 26 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1979-W549	2443991.06	1979 Apr 27 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-W550	2443991.10	1979 Apr 27 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-W551	2443991.10	1979 Apr 27 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W552	2443991.31	1979 Apr 27 1921:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	52	-	-
1979-W553	2443991.33	1979 Apr 27 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W554	2443991.47	1979 Apr 27 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1979-W555	2443991.55	1979 Apr 28 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W557	2443994.11	1979 Apr 30 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W558	2443994.16	1979 Apr 30 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W559	2443994.24	1979 Apr 30 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1979-W560	2443994.25	1979 Apr 30 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W561	2443994.37	1979 Apr 30 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	52	-	-
1979-W562	2443994.38	1979 Apr 30 2103:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W563	2443994.44	1979 Apr 30 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1979-W564	2443996.06	1979 May 2 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1979-W565	2443996.06	1979 May 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-Y270	2443996.09	1979 May 2 1409:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W566	2443996.11	1979 May 2 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	52	-	-
1979-W567	2443996.13	1979 May 2 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W568	2443996.16	1979 May 2 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1979-Y271	2443996.23	1979 May 2 1731:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1979-W569	2443996.25	1979 May 2 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-Y273	2443996.31	1979 May 2 1931:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W570	2443996.32	1979 May 2 1946:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1979-W571	2443996.33	1979 May 2 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W572	2443996.45	1979 May 2 2243:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W573	2443996.50	1979 May 2 2356:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W574	2443997.15	1979 May 3 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1979-W575	2443997.19	1979 May 3 1635:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	59	-	-
1979-W578	2443997.31	1979 May 3 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1979-Y277	2443997.42	1979 May 3 2202:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1979-W579	2443997.45	1979 May 3 2241:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1979-W580	2443998.05	1979 May 4 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W581	2443998.06	1979 May 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1979-W582	2443998.10	1979 May 4 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	50	-	-
1979-W583	2443998.11	1979 May 4 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W584	2443998.14	1979 May 4 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1979-W585	2443998.21	1979 May 4 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W586	2443998.25	1979 May 4 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1979-W587	2443998.30	1979 May 4 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1979-W588	2443998.33	1979 May 4 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W589	2443998.45	1979 May 4 2245:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1979-W590	2443998.50	1979 May 5 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1979-W591	2444001.05	1979 May 7 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W592	2444001.10	1979 May 7 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W593	2444001.16	1979 May 7 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W594	2444001.21	1979 May 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W595	2444001.26	1979 May 7 1813:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W596	2444001.33	1979 May 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1979-W597	2444002.33	1979 May 8 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W598	2444002.61	1979 May 9 0240:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W599	2444003.10	1979 May 9 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W600	2444003.21	1979 May 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1979-Y281	2444003.22	1979 May 9 1710:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W601	2444003.23	1979 May 9 1733:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	53	-	-
1979-A22	2444003.23	1979 May 9 1737:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	48	-	-
1979-W602	2444003.24	1979 May 9 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-W603	2444003.26	1979 May 9 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	73	-	-
1979-W604	2444003.27	1979 May 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-Y282	2444003.29	1979 May 9 1852:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W605	2444003.30	1979 May 9 1918:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-W606	2444003.31	1979 May 9 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1979-W607	2444003.33	1979 May 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W608	2444003.44	1979 May 9 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1979-W609	2444003.45	1979 May 9 2251:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W610	2444004.57	1979 May 11 0141:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W611	2444005.04	1979 May 11 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W612	2444005.06	1979 May 11 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W613	2444005.10	1979 May 11 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W614	2444005.12	1979 May 11 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W615	2444005.15	1979 May 11 1536:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W616	2444005.29	1979 May 11 1900:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W617	2444005.31	1979 May 11 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W618	2444005.47	1979 May 11 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1979-W619	2444006.18	1979 May 12 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W621	2444008.06	1979 May 14 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W622	2444008.09	1979 May 14 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	56	-	-
1979-W623	2444008.12	1979 May 14 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W624	2444008.15	1979 May 14 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W625	2444008.25	1979 May 14 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W626	2444008.27	1979 May 14 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	77	-	-
1979-W627	2444008.37	1979 May 14 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1979-W628	2444008.48	1979 May 14 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1979-W629	2444008.58	1979 May 15 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W630	2444009.33	1979 May 15 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1979-W632	2444010.06	1979 May 16 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W633	2444010.12	1979 May 16 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W634	2444010.17	1979 May 16 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1979-W635	2444010.21	1979 May 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1979-W636	2444010.26	1979 May 16 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1979-Y292	2444010.30	1979 May 16 1904:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W637	2444010.32	1979 May 16 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W638	2444010.33	1979 May 16 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1979-W640	2444010.47	1979 May 16 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1979-W641	2444010.57	1979 May 17 0137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W642	2444011.33	1979 May 17 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W643	2444011.62	1979 May 18 0247:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W644	2444012.10	1979 May 18 1419:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W645	2444012.11	1979 May 18 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-A23	2444012.13	1979 May 18 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	44	-	-
1979-W646	2444012.23	1979 May 18 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1979-W647	2444012.24	1979 May 18 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1979-W648	2444012.25	1979 May 18 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W649	2444012.28	1979 May 18 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W650	2444012.33	1979 May 18 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1979-W652	2444012.61	1979 May 19 0237:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W653	2444015.07	1979 May 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W654	2444015.09	1979 May 21 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W655	2444015.14	1979 May 21 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W656	2444015.20	1979 May 21 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W657	2444015.25	1979 May 21 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W658	2444015.31	1979 May 21 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-W660	2444015.33	1979 May 21 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-A24	2444015.37	1979 May 21 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	47	-	-
1979-W661	2444015.38	1979 May 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1979-W662	2444015.56	1979 May 22 0127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W664	2444017.04	1979 May 23 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W665	2444017.10	1979 May 23 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W667	2444017.11	1979 May 23 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W668	2444017.11	1979 May 23 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-Y307	2444017.14	1979 May 23 1521:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W669	2444017.16	1979 May 23 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-Y308	2444017.20	1979 May 23 1652:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W670	2444017.21	1979 May 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-W671	2444017.22	1979 May 23 1718:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-W672	2444017.30	1979 May 23 1915:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1979-W674	2444017.45	1979 May 23 2253:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W675	2444017.45	1979 May 23 2254:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	78	-	-
1979-W676	2444017.53	1979 May 24 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W678	2444019.07	1979 May 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W679	2444019.07	1979 May 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W680	2444019.10	1979 May 25 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W681	2444019.11	1979 May 25 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1979-W682	2444019.19	1979 May 25 1633:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W683	2444019.25	1979 May 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W684	2444019.25	1979 May 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W685	2444019.26	1979 May 25 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W686	2444019.33	1979 May 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W687	2444019.41	1979 May 25 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W688	2444019.47	1979 May 25 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1979-W689	2444019.62	1979 May 26 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1979-W695	2444022.12	1979 May 28 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W697	2444023.06	1979 May 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1979-W698	2444023.11	1979 May 29 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1979-W699	2444023.23	1979 May 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1979-W701	2444023.40	1979 May 29 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	51	-	-
1979-W702	2444023.41	1979 May 29 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1979-W703	2444024.06	1979 May 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1979-W704	2444024.06	1979 May 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1979-Y318	2444024.09	1979 May 30 1412:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-A25	2444024.10	1979 May 30 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	43	-	-
1979-W705	2444024.11	1979 May 30 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1979-W706	2444024.13	1979 May 30 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y321	2444024.25	1979 May 30 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W707	2444024.26	1979 May 30 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1979-W708	2444024.29	1979 May 30 1855:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W709	2444024.31	1979 May 30 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W710	2444024.33	1979 May 30 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1979-Y323	2444024.38	1979 May 30 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1979-W711	2444024.40	1979 May 30 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	75	-	-
1979-W712	2444024.45	1979 May 30 2252:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1979-W713	2444025.33	1979 May 31 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1979-W715	2444026.06	1979 Jun 1 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W716	2444026.10	1979 Jun 1 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W717	2444026.21	1979 Jun 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1979-W718	2444026.22	1979 Jun 1 1722:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1979-W719	2444026.38	1979 Jun 1 2100:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1979-W720	2444026.41	1979 Jun 1 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-W721	2444026.56	1979 Jun 2 0125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W722	2444029.06	1979 Jun 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W723	2444029.07	1979 Jun 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W724	2444029.10	1979 Jun 4 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-Y326	2444029.10	1979 Jun 4 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1979-W725	2444029.21	1979 Jun 4 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W726	2444029.25	1979 Jun 4 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W727	2444029.27	1979 Jun 4 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W728	2444029.30	1979 Jun 4 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-A26	2444029.38	1979 Jun 4 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	37	-	-
1979-W729	2444029.55	1979 Jun 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W731	2444031.05	1979 Jun 6 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1979-W732	2444031.06	1979 Jun 6 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W733	2444031.07	1979 Jun 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W734	2444031.10	1979 Jun 6 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W735	2444031.10	1979 Jun 6 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W736	2444031.10	1979 Jun 6 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1979-W737	2444031.19	1979 Jun 6 1638:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-Y332	2444031.20	1979 Jun 6 1651:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W738	2444031.21	1979 Jun 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W739	2444031.23	1979 Jun 6 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1979-W740	2444031.26	1979 Jun 6 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1979-W741	2444031.44	1979 Jun 6 2237:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W742	2444032.57	1979 Jun 8 0134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W744	2444033.06	1979 Jun 8 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	77	-	-
1979-W745	2444033.11	1979 Jun 8 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W746	2444033.25	1979 Jun 8 1803:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W747	2444033.31	1979 Jun 8 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1979-A27	2444033.40	1979 Jun 8 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	48	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W749	2444036.09	1979 Jun 11 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1979-W750	2444036.10	1979 Jun 11 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W751	2444036.14	1979 Jun 11 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W752	2444036.17	1979 Jun 11 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1979-W753	2444036.26	1979 Jun 11 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1979-W754	2444036.29	1979 Jun 11 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W755	2444036.56	1979 Jun 12 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W757	2444038.06	1979 Jun 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-A28	2444038.07	1979 Jun 13 1333:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	49	-	-
1979-W759	2444038.07	1979 Jun 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1979-W760	2444038.10	1979 Jun 13 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-Y339	2444038.11	1979 Jun 13 1432:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1979-W761	2444038.15	1979 Jun 13 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W762	2444038.17	1979 Jun 13 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W763	2444038.21	1979 Jun 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-Y341	2444038.25	1979 Jun 13 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W764	2444038.26	1979 Jun 13 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1979-W765	2444038.28	1979 Jun 13 1838:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W766	2444038.62	1979 Jun 14 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W767	2444039.62	1979 Jun 15 0249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W769	2444040.06	1979 Jun 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W770	2444040.06	1979 Jun 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W771	2444040.07	1979 Jun 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1979-W772	2444040.16	1979 Jun 15 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W773	2444040.21	1979 Jun 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W774	2444040.24	1979 Jun 15 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W775	2444040.33	1979 Jun 15 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1979-W776	2444040.38	1979 Jun 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1979-W777	2444043.06	1979 Jun 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W778	2444043.11	1979 Jun 18 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W779	2444043.12	1979 Jun 18 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W781	2444043.18	1979 Jun 18 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W782	2444043.31	1979 Jun 18 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1979-W783	2444043.39	1979 Jun 18 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W784	2444043.43	1979 Jun 18 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1979-W785	2444044.55	1979 Jun 20 0109:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W787	2444045.08	1979 Jun 20 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	53	-	-
1979-W788	2444045.10	1979 Jun 20 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W789	2444045.11	1979 Jun 20 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1979-W790	2444045.12	1979 Jun 20 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1979-W791	2444045.21	1979 Jun 20 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-Y350	2444045.24	1979 Jun 20 1752:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W792	2444045.27	1979 Jun 20 1827:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-Y352	2444045.38	1979 Jun 20 2102:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W793	2444045.48	1979 Jun 20 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W795	2444047.07	1979 Jun 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W796	2444047.13	1979 Jun 22 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W797	2444047.26	1979 Jun 22 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-W798	2444047.27	1979 Jun 22 1823:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W799	2444047.31	1979 Jun 22 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1979-W800	2444047.37	1979 Jun 22 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1979-W801	2444047.47	1979 Jun 22 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1979-W802	2444047.55	1979 Jun 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W803	2444049.62	1979 Jun 25 0251:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W804	2444050.06	1979 Jun 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1979-W805	2444050.07	1979 Jun 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W806	2444050.12	1979 Jun 25 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W807	2444050.12	1979 Jun 25 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1979-A29	2444050.21	1979 Jun 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	49	-	-
1979-W808	2444050.21	1979 Jun 25 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W809	2444050.24	1979 Jun 25 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W810	2444050.25	1979 Jun 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-A30	2444050.33	1979 Jun 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1979-W811	2444050.37	1979 Jun 25 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1979-W812	2444050.45	1979 Jun 25 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1979-W813	2444050.55	1979 Jun 26 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W815	2444052.05	1979 Jun 27 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W816	2444052.08	1979 Jun 27 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W817	2444052.09	1979 Jun 27 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W818	2444052.10	1979 Jun 27 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	50	-	-
1979-Y362	2444052.11	1979 Jun 27 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W819	2444052.16	1979 Jun 27 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W820	2444052.18	1979 Jun 27 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1979-W821	2444052.25	1979 Jun 27 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-Y366	2444052.29	1979 Jun 27 1856:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1979-W822	2444052.31	1979 Jun 27 1921:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-Y367	2444052.33	1979 Jun 27 1949:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W823	2444052.34	1979 Jun 27 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1979-W824	2444052.38	1979 Jun 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1979-W825	2444052.38	1979 Jun 27 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-Y368	2444054.07	1979 Jun 29 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	89	-	-
1979-W826	2444054.07	1979 Jun 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W827	2444054.11	1979 Jun 29 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W828	2444054.15	1979 Jun 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W829	2444054.19	1979 Jun 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W830	2444054.23	1979 Jun 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W831	2444054.24	1979 Jun 29 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1979-A31	2444054.33	1979 Jun 29 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1979-W832	2444054.37	1979 Jun 29 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1979-W833	2444054.44	1979 Jun 29 2230:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1979-W834	2444054.55	1979 Jun 30 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1979-W835	2444057.06	1979 Jul 2 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1979-W836	2444057.14	1979 Jul 2 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W837	2444057.21	1979 Jul 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W838	2444057.30	1979 Jul 2 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W839	2444057.37	1979 Jul 2 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1979-W840	2444057.47	1979 Jul 2 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1979-W841	2444057.53	1979 Jul 3 0037:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W842	2444058.11	1979 Jul 3 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-A32	2444058.33	1979 Jul 3 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1979-W844	2444058.62	1979 Jul 4 0249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W846	2444059.26	1979 Jul 4 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1979-W847	2444059.62	1979 Jul 5 0259:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1979-W848	2444060.62	1979 Jul 6 0258:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1979-Y378	2444061.08	1979 Jul 6 1400:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	95	-	-
1979-W849	2444061.10	1979 Jul 6 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y379	2444061.21	1979 Jul 6 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	87	-	-
1979-W850	2444061.22	1979 Jul 6 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W851	2444061.26	1979 Jul 6 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W852	2444061.27	1979 Jul 6 1825:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-A33	2444061.29	1979 Jul 6 1857:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1979-W853	2444061.29	1979 Jul 6 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1979-W854	2444061.37	1979 Jul 6 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	50	-	-
1979-W855	2444061.57	1979 Jul 7 0135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W856	2444064.06	1979 Jul 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1979-W857	2444064.07	1979 Jul 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1979-Y382	2444064.09	1979 Jul 9 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	90	-	-
1979-W858	2444064.09	1979 Jul 9 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W859	2444064.21	1979 Jul 9 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1979-W860	2444064.25	1979 Jul 9 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W861	2444064.27	1979 Jul 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W862	2444064.49	1979 Jul 9 2340:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W863	2444064.55	1979 Jul 10 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1979-W864	2444065.08	1979 Jul 10 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W866	2444066.06	1979 Jul 11 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1979-W867	2444066.07	1979 Jul 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1979-W868	2444066.09	1979 Jul 11 1403:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W869	2444066.09	1979 Jul 11 1403:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1979-W870	2444066.17	1979 Jul 11 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-Y387	2444066.19	1979 Jul 11 1635:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1979-W871	2444066.21	1979 Jul 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1979-W872	2444066.22	1979 Jul 11 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	73	-	-
1979-Y388	2444066.25	1979 Jul 11 1753:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W873	2444066.27	1979 Jul 11 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W874	2444066.47	1979 Jul 11 2315:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1979-W875	2444066.62	1979 Jul 12 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-A34	2444067.33	1979 Jul 12 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1979-Y390	2444067.37	1979 Jul 12 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1979-W879	2444067.39	1979 Jul 12 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W880	2444067.62	1979 Jul 13 0255:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1979-Y391	2444068.07	1979 Jul 13 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1979-W881	2444068.07	1979 Jul 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1979-W882	2444068.14	1979 Jul 13 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1979-W883	2444068.21	1979 Jul 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1979-W884	2444068.25	1979 Jul 13 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W885	2444068.32	1979 Jul 13 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W886	2444068.37	1979 Jul 13 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1979-W887	2444068.38	1979 Jul 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1979-Y393	2444069.29	1979 Jul 14 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1979-W888	2444069.39	1979 Jul 14 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	76	-	-
1979-W890	2444071.06	1979 Jul 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W891	2444071.07	1979 Jul 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W892	2444071.10	1979 Jul 16 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1979-W893	2444071.14	1979 Jul 16 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W894	2444071.19	1979 Jul 16 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W895	2444071.21	1979 Jul 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-W896	2444071.27	1979 Jul 16 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W897	2444071.31	1979 Jul 16 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1979-W898	2444071.55	1979 Jul 17 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1979-W899	2444071.95	1979 Jul 17 1052:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W900	2444072.27	1979 Jul 17 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1979-W901	2444072.53	1979 Jul 18 0041:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-W904	2444073.06	1979 Jul 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-W905	2444073.09	1979 Jul 18 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W906	2444073.10	1979 Jul 18 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	53	-	-
1979-Y400	2444073.10	1979 Jul 18 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W907	2444073.11	1979 Jul 18 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W908	2444073.15	1979 Jul 18 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-Y401	2444073.25	1979 Jul 18 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W909	2444073.26	1979 Jul 18 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	74	-	-
1979-W910	2444073.27	1979 Jul 18 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1979-W911	2444073.29	1979 Jul 18 1856:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W912	2444073.91	1979 Jul 19 0951:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1979-W913	2444075.06	1979 Jul 20 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W914	2444075.06	1979 Jul 20 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1979-W915	2444075.10	1979 Jul 20 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-W916	2444075.55	1979 Jul 21 0118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-Y406	2444077.29	1979 Jul 22 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	94	-	-
1979-W917	2444077.38	1979 Jul 22 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1979-W918	2444078.07	1979 Jul 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W919	2444078.09	1979 Jul 23 1407:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W920	2444078.25	1979 Jul 23 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1979-W921	2444078.25	1979 Jul 23 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W922	2444078.27	1979 Jul 23 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W923	2444078.37	1979 Jul 23 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1979-W924	2444079.52	1979 Jul 25 0035:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W925	2444080.06	1979 Jul 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1979-W926	2444080.06	1979 Jul 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W927	2444080.10	1979 Jul 25 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W928	2444080.10	1979 Jul 25 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	78	-	-
1979-W929	2444080.11	1979 Jul 25 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W930	2444080.11	1979 Jul 25 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-Y411	2444080.25	1979 Jul 25 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W931	2444080.26	1979 Jul 25 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1979-W932	2444080.33	1979 Jul 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W933	2444080.33	1979 Jul 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1979-W934	2444080.38	1979 Jul 25 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W935	2444080.39	1979 Jul 25 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-Y412	2444080.46	1979 Jul 25 2302:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1979-W936	2444081.35	1979 Jul 26 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1979-W937	2444082.06	1979 Jul 27 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W938	2444082.07	1979 Jul 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W939	2444082.08	1979 Jul 27 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W940	2444082.11	1979 Jul 27 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W941	2444082.21	1979 Jul 27 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1979-W942	2444082.37	1979 Jul 27 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1979-W943	2444082.55	1979 Jul 28 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W944	2444085.07	1979 Jul 30 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W945	2444085.13	1979 Jul 30 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1979-W946	2444085.15	1979 Jul 30 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W947	2444085.16	1979 Jul 30 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W948	2444085.21	1979 Jul 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1979-W949	2444085.25	1979 Jul 30 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1979-W950	2444085.44	1979 Jul 30 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1979-W951	2444085.71	1979 Jul 31 0500:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W953	2444087.06	1979 Aug 1 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W954	2444087.07	1979 Aug 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W955	2444087.08	1979 Aug 1 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W956	2444087.10	1979 Aug 1 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-W957	2444087.10	1979 Aug 1 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W958	2444087.11	1979 Aug 1 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W959	2444087.11	1979 Aug 1 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W960	2444087.21	1979 Aug 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-Y420	2444087.25	1979 Aug 1 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W961	2444087.26	1979 Aug 1 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-Y421	2444087.37	1979 Aug 1 2057:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1979-W962	2444087.39	1979 Aug 1 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1979-Y422	2444087.56	1979 Aug 2 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1979-W963	2444088.06	1979 Aug 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W964	2444088.10	1979 Aug 2 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W965	2444088.69	1979 Aug 3 0440:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W966	2444088.81	1979 Aug 3 0719:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W967	2444088.87	1979 Aug 3 0849:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W968	2444089.06	1979 Aug 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W969	2444089.06	1979 Aug 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-Y424	2444089.10	1979 Aug 3 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	93	-	-
1979-W970	2444089.14	1979 Aug 3 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W971	2444089.38	1979 Aug 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-W972	2444089.55	1979 Aug 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W973	2444092.07	1979 Aug 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W974	2444092.07	1979 Aug 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W975	2444092.10	1979 Aug 6 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W976	2444092.34	1979 Aug 6 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W977	2444092.41	1979 Aug 6 2156:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W978	2444092.61	1979 Aug 7 0241:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W979	2444093.18	1979 Aug 7 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W980	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W981	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W982	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W983	2444094.10	1979 Aug 8 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1979-W984	2444094.17	1979 Aug 8 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W985	2444094.55	1979 Aug 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W986	2444095.34	1979 Aug 9 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-W987	2444096.17	1979 Aug 10 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W988	2444096.28	1979 Aug 10 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W989	2444096.55	1979 Aug 11 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W990	2444099.06	1979 Aug 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W991	2444099.07	1979 Aug 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W993	2444099.14	1979 Aug 13 1521:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W994	2444099.18	1979 Aug 13 1615:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1979-W995	2444099.55	1979 Aug 14 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W996	2444100.30	1979 Aug 14 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1979-A36	2444100.55	1979 Aug 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1979-W998	2444101.06	1979 Aug 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W999	2444101.07	1979 Aug 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1000	2444101.08	1979 Aug 15 1355:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1979-Y437	2444101.10	1979 Aug 15 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	89	-	-
1979-W1001	2444101.11	1979 Aug 15 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-Y438	2444101.25	1979 Aug 15 1754:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W1002	2444101.26	1979 Aug 15 1812:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W01	2444241.06	1980 Jan 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W02	2444241.07	1980 Jan 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W03	2444241.10	1980 Jan 2 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W04	2444241.13	1980 Jan 2 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-Y06	2444241.15	1980 Jan 2 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	90	-	-
1980-W05	2444241.25	1980 Jan 2 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1980-W06	2444241.51	1980 Jan 3 0010:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1980-W07	2444241.56	1980 Jan 3 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W08	2444242.20	1980 Jan 3 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W09	2444243.06	1980 Jan 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W10	2444243.08	1980 Jan 4 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W11	2444243.11	1980 Jan 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1980-W12	2444243.16	1980 Jan 4 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W13	2444243.20	1980 Jan 4 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W14	2444243.30	1980 Jan 4 1908:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1980-W15	2444243.55	1980 Jan 5 0109:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-Y13	2444243.55	1980 Jan 5 0117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W17	2444246.11	1980 Jan 7 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W18	2444246.11	1980 Jan 7 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W19	2444246.14	1980 Jan 7 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W20	2444246.23	1980 Jan 7 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1980-W21	2444246.25	1980 Jan 7 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1980-Y18	2444246.26	1980 Jan 7 1810:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W22	2444246.27	1980 Jan 7 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1980-W23	2444246.32	1980 Jan 7 1937:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	62	-	-
1980-W25	2444246.38	1980 Jan 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1980-W26	2444246.39	1980 Jan 7 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-W27	2444246.55	1980 Jan 8 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W29	2444248.06	1980 Jan 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W30	2444248.07	1980 Jan 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1980-W31	2444248.10	1980 Jan 9 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W32	2444248.29	1980 Jan 9 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1980-W33	2444248.45	1980 Jan 9 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W34	2444248.56	1980 Jan 10 0119:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W35	2444250.10	1980 Jan 11 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W36	2444250.10	1980 Jan 11 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1980-W37	2444250.11	1980 Jan 11 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W38	2444250.13	1980 Jan 11 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1980-W39	2444250.17	1980 Jan 11 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W40	2444250.18	1980 Jan 11 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W41	2444250.23	1980 Jan 11 1727:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-A01	2444250.42	1980 Jan 11 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-W42	2444250.55	1980 Jan 12 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W46	2444253.07	1980 Jan 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1980-W47	2444253.10	1980 Jan 14 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W48	2444253.11	1980 Jan 14 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1980-W49	2444253.55	1980 Jan 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W50	2444254.30	1980 Jan 15 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W51	2444254.40	1980 Jan 15 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W55	2444255.07	1980 Jan 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1980-W56	2444255.10	1980 Jan 16 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1980-W57	2444255.12	1980 Jan 16 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-Y31	2444255.15	1980 Jan 16 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1980-W59	2444255.30	1980 Jan 16 1913:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W60	2444255.30	1980 Jan 16 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1980-W61	2444255.39	1980 Jan 16 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W62	2444255.48	1980 Jan 16 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-Y33	2444256.14	1980 Jan 17 1524:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W63	2444257.05	1980 Jan 18 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W64	2444257.10	1980 Jan 18 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W65	2444257.11	1980 Jan 18 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W68	2444257.39	1980 Jan 18 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W69	2444259.72	1980 Jan 21 0515:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1980-W70	2444260.05	1980 Jan 21 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W71	2444260.07	1980 Jan 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-Y43	2444260.15	1980 Jan 21 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1980-W72	2444260.20	1980 Jan 21 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W73	2444260.28	1980 Jan 21 1841:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1980-A02	2444260.39	1980 Jan 21 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W74	2444260.55	1980 Jan 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-Y44	2444261.11	1980 Jan 22 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	92	-	-
1980-Y45	2444261.25	1980 Jan 22 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1980-W77	2444262.06	1980 Jan 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1980-W78	2444262.08	1980 Jan 23 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W79	2444262.11	1980 Jan 23 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1980-W80	2444262.22	1980 Jan 23 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W81	2444262.22	1980 Jan 23 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1980-W82	2444262.45	1980 Jan 23 2252:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W83	2444262.58	1980 Jan 24 0158:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W84	2444263.21	1980 Jan 24 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W85	2444264.03	1980 Jan 25 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W86	2444264.07	1980 Jan 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W87	2444264.10	1980 Jan 25 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1980-W88	2444264.14	1980 Jan 25 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W89	2444264.21	1980 Jan 25 1656:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1980-W90	2444264.38	1980 Jan 25 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1980-W91	2444264.55	1980 Jan 26 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W92	2444267.06	1980 Jan 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W93	2444267.07	1980 Jan 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1980-W94	2444267.10	1980 Jan 28 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W95	2444267.11	1980 Jan 28 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-Y56	2444267.14	1980 Jan 28 1524:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1980-W96	2444267.31	1980 Jan 28 1927:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1980-W97	2444267.31	1980 Jan 28 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1980-A03	2444267.38	1980 Jan 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	48	-	-
1980-W98	2444267.56	1980 Jan 29 0122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-A04	2444268.41	1980 Jan 29 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-W99	2444269.06	1980 Jan 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W100	2444269.07	1980 Jan 30 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-Y60	2444269.14	1980 Jan 30 1514:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-W101	2444269.31	1980 Jan 30 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1980-W102	2444269.45	1980 Jan 30 2249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W103	2444269.97	1980 Jan 31 1110:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W104	2444270.11	1980 Jan 31 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1980-W105	2444270.12	1980 Jan 31 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W106	2444270.39	1980 Jan 31 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W107	2444270.50	1980 Feb 1 0004:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	72	-	-
1980-W108	2444270.51	1980 Feb 1 0010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1980-W109	2444270.51	1980 Feb 1 0014:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1980-W110	2444271.09	1980 Feb 1 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-A05	2444271.16	1980 Feb 1 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	46	-	-
1980-W111	2444271.20	1980 Feb 1 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W112	2444271.35	1980 Feb 1 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W113	2444274.07	1980 Feb 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1980-W114	2444274.10	1980 Feb 4 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W115	2444274.11	1980 Feb 4 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1980-W116	2444274.24	1980 Feb 4 1748:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-Y65	2444274.33	1980 Feb 4 1953:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1980-W117	2444274.38	1980 Feb 4 2108:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	50	-	-
1980-W118	2444274.40	1980 Feb 4 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-Y66	2444274.56	1980 Feb 5 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W120	2444276.06	1980 Feb 6 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W121	2444276.10	1980 Feb 6 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W122	2444276.10	1980 Feb 6 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1980-Y70	2444276.15	1980 Feb 6 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-W123	2444276.45	1980 Feb 6 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W124	2444278.07	1980 Feb 8 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1980-W125	2444278.11	1980 Feb 8 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W127	2444278.40	1980 Feb 8 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1980-Y74	2444278.55	1980 Feb 9 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W129	2444281.07	1980 Feb 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W130	2444281.11	1980 Feb 11 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W131	2444281.11	1980 Feb 11 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W132	2444281.23	1980 Feb 11 1736:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W133	2444281.29	1980 Feb 11 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W134	2444281.39	1980 Feb 11 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-W135	2444281.56	1980 Feb 12 0119:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W136	2444282.24	1980 Feb 12 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1980-W138	2444283.06	1980 Feb 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W139	2444283.12	1980 Feb 13 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W140	2444283.12	1980 Feb 13 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W141	2444283.21	1980 Feb 13 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1980-Y80	2444283.28	1980 Feb 13 1845:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W142	2444283.38	1980 Feb 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W143	2444283.46	1980 Feb 13 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W145	2444284.20	1980 Feb 14 1642:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1980-Y81	2444284.47	1980 Feb 14 2311:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1980-W146	2444284.50	1980 Feb 14 2353:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1980-W147	2444284.50	1980 Feb 14 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	54	-	-
1980-W148	2444284.50	1980 Feb 15 0002:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1980-W150	2444285.06	1980 Feb 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W151	2444285.07	1980 Feb 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W152	2444285.10	1980 Feb 15 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W153	2444285.12	1980 Feb 15 1458:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W154	2444285.15	1980 Feb 15 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	71	-	-
1980-W155	2444285.19	1980 Feb 15 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1980-W156	2444285.56	1980 Feb 16 0119:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W158	2444288.12	1980 Feb 18 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W159	2444288.20	1980 Feb 18 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1980-W161	2444288.38	1980 Feb 18 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W163	2444289.42	1980 Feb 19 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1980-W166	2444290.06	1980 Feb 20 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W167	2444290.10	1980 Feb 20 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W168	2444290.13	1980 Feb 20 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W169	2444290.13	1980 Feb 20 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-Y90	2444290.15	1980 Feb 20 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1980-W170	2444290.32	1980 Feb 20 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1980-W171	2444290.50	1980 Feb 21 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W172	2444292.07	1980 Feb 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-A07	2444292.10	1980 Feb 22 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1980-W173	2444292.10	1980 Feb 22 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W174	2444292.31	1980 Feb 22 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W175	2444292.55	1980 Feb 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W178	2444295.05	1980 Feb 25 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1980-W179	2444295.06	1980 Feb 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W181	2444295.10	1980 Feb 25 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W182	2444295.12	1980 Feb 25 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-Y102	2444295.30	1980 Feb 25 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-Y103	2444295.32	1980 Feb 25 1935:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	85	-	-
1980-W185	2444295.55	1980 Feb 26 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W190	2444297.11	1980 Feb 27 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	55	-	-
1980-W191	2444297.22	1980 Feb 27 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W193	2444297.45	1980 Feb 27 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W199	2444298.32	1980 Feb 28 1935:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-A08	2444298.39	1980 Feb 28 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-W200	2444298.46	1980 Feb 28 2308:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	72	-	-
1980-W201	2444298.49	1980 Feb 28 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-Y128	2444298.50	1980 Feb 28 2353:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	80	-	-
1980-W202	2444298.50	1980 Feb 28 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1980-W207	2444299.05	1980 Feb 29 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W208	2444299.07	1980 Feb 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W209	2444299.10	1980 Feb 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-Y136	2444299.14	1980 Feb 29 1515:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	88	-	-
1980-W210	2444299.14	1980 Feb 29 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-W211	2444299.31	1980 Feb 29 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W212	2444299.40	1980 Feb 29 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W213	2444299.55	1980 Mar 1 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W216	2444302.08	1980 Mar 3 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W217	2444302.09	1980 Mar 3 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W218	2444302.12	1980 Mar 3 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W219	2444302.13	1980 Mar 3 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1980-W220	2444302.39	1980 Mar 3 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-W221	2444302.55	1980 Mar 4 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W222	2444303.12	1980 Mar 4 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W225	2444304.12	1980 Mar 5 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-Y142	2444304.37	1980 Mar 5 2055:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1980-W226	2444304.38	1980 Mar 5 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W227	2444304.39	1980 Mar 5 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1980-W228	2444304.45	1980 Mar 5 2252:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W229	2444305.30	1980 Mar 6 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W230	2444305.38	1980 Mar 6 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-W231	2444305.53	1980 Mar 7 0047:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W232	2444306.08	1980 Mar 7 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1980-W233	2444306.14	1980 Mar 7 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1980-W234	2444306.20	1980 Mar 7 1641:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W235	2444306.37	1980 Mar 7 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1980-W236	2444306.38	1980 Mar 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W237	2444309.06	1980 Mar 10 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W238	2444309.07	1980 Mar 10 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W239	2444309.12	1980 Mar 10 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	55	-	-
1980-Y146	2444309.13	1980 Mar 10 1511:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W240	2444309.20	1980 Mar 10 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W241	2444309.28	1980 Mar 10 1844:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1980-W242	2444309.29	1980 Mar 10 1903:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-W243	2444309.41	1980 Mar 10 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1980-W244	2444309.66	1980 Mar 11 0352:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1980-W245	2444310.30	1980 Mar 11 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W246	2444310.52	1980 Mar 12 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W249	2444311.06	1980 Mar 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W251	2444311.11	1980 Mar 12 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1980-W252	2444311.12	1980 Mar 12 1454:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-Y149	2444311.19	1980 Mar 12 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1980-W253	2444311.25	1980 Mar 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1980-W254	2444311.30	1980 Mar 12 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-A09	2444311.39	1980 Mar 12 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1980-W255	2444311.50	1980 Mar 13 0004:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-W256	2444311.51	1980 Mar 13 0010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W257	2444311.51	1980 Mar 13 0014:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-W258	2444311.61	1980 Mar 13 0232:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W259	2444312.20	1980 Mar 13 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W261	2444313.06	1980 Mar 14 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-A10	2444313.07	1980 Mar 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	24	-	-
1980-W262	2444313.11	1980 Mar 14 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-A11	2444313.38	1980 Mar 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1980-W263	2444313.55	1980 Mar 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W264	2444313.75	1980 Mar 15 0604:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W265	2444316.11	1980 Mar 17 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W266	2444316.11	1980 Mar 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1980-W267	2444316.18	1980 Mar 17 1615:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W268	2444316.19	1980 Mar 17 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W269	2444316.24	1980 Mar 17 1744:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W270	2444316.29	1980 Mar 17 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1980-W271	2444316.39	1980 Mar 17 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W272	2444316.50	1980 Mar 17 2356:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1980-W273	2444316.50	1980 Mar 18 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-Y150	2444316.50	1980 Mar 18 0006:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	81	-	-
1980-W274	2444316.68	1980 Mar 18 0414:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-Y151	2444317.31	1980 Mar 18 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	88	-	-
1980-W275	2444317.34	1980 Mar 18 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1980-W278	2444317.67	1980 Mar 19 0404:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W280	2444318.11	1980 Mar 19 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W281	2444318.15	1980 Mar 19 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W282	2444318.21	1980 Mar 19 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1980-W283	2444318.25	1980 Mar 19 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1980-Y157	2444318.29	1980 Mar 19 1859:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1980-W284	2444318.29	1980 Mar 19 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W285	2444318.34	1980 Mar 19 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-Y159	2444318.37	1980 Mar 19 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1980-W286	2444318.39	1980 Mar 19 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W287	2444318.66	1980 Mar 20 0352:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W289	2444320.06	1980 Mar 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W290	2444320.07	1980 Mar 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W291	2444320.22	1980 Mar 21 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W292	2444320.38	1980 Mar 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W293	2444320.40	1980 Mar 21 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1980-W294	2444320.54	1980 Mar 22 0102:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1980-W295	2444320.55	1980 Mar 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W296	2444320.81	1980 Mar 22 0730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1980-W297	2444323.07	1980 Mar 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1980-W298	2444323.11	1980 Mar 24 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W299	2444323.12	1980 Mar 24 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	58	-	-
1980-Y163	2444323.12	1980 Mar 24 1500:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W300	2444323.15	1980 Mar 24 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W301	2444323.25	1980 Mar 24 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W302	2444323.31	1980 Mar 24 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-A12	2444323.38	1980 Mar 24 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	48	-	-
1980-W303	2444323.38	1980 Mar 24 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W304	2444323.55	1980 Mar 25 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-A13	2444325.10	1980 Mar 26 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	37	-	-
1980-W307	2444325.12	1980 Mar 26 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1980-W308	2444325.12	1980 Mar 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-Y168	2444325.29	1980 Mar 26 1852:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W310	2444325.29	1980 Mar 26 1853:00	Rocketsonde	-	-	STS	-	-	-	CC	LC43	-	-	65	-	-
1980-W311	2444325.30	1980 Mar 26 1918:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W312	2444325.38	1980 Mar 26 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W313	2444325.68	1980 Mar 27 0413:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-Y171	2444325.80	1980 Mar 27 0714:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-Y172	2444325.95	1980 Mar 27 1044:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W314	2444326.67	1980 Mar 28 0402:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W316	2444327.05	1980 Mar 28 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W317	2444327.10	1980 Mar 28 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1980-W318	2444327.10	1980 Mar 28 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1980-Y173	2444327.15	1980 Mar 28 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	92	-	-
1980-W319	2444327.19	1980 Mar 28 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W320	2444327.30	1980 Mar 28 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1980-W321	2444327.53	1980 Mar 29 0037:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W322	2444330.05	1980 Mar 31 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W323	2444330.11	1980 Mar 31 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W324	2444330.19	1980 Mar 31 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W325	2444330.20	1980 Mar 31 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1980-A14	2444330.38	1980 Mar 31 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	49	-	-
1980-Y176	2444330.47	1980 Mar 31 2312:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1980-Y177	2444330.49	1980 Mar 31 2351:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	82	-	-
1980-W327	2444330.50	1980 Apr 1 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	79	-	-
1980-W326	2444330.50	1980 Mar 31 2356:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	79	-	-
1980-W328	2444330.55	1980 Apr 1 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-A15	2444331.39	1980 Apr 1 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1980-W329	2444332.15	1980 Apr 2 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1980-W330	2444332.15	1980 Apr 2 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W331	2444332.15	1980 Apr 2 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W332	2444332.19	1980 Apr 2 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1980-Y182	2444332.25	1980 Apr 2 1800:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	89	-	-
1980-A16	2444332.39	1980 Apr 2 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W333	2444332.52	1980 Apr 3 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W334	2444333.15	1980 Apr 3 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1980-W335	2444333.19	1980 Apr 3 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W336	2444333.38	1980 Apr 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W337	2444334.13	1980 Apr 4 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W338	2444334.14	1980 Apr 4 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W339	2444334.41	1980 Apr 4 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W340	2444334.64	1980 Apr 5 0322:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1980-W341	2444337.06	1980 Apr 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W342	2444337.14	1980 Apr 7 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W343	2444337.26	1980 Apr 7 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W344	2444337.71	1980 Apr 8 0506:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1980-W345	2444338.56	1980 Apr 9 0127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W347	2444339.06	1980 Apr 9 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W348	2444339.09	1980 Apr 9 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W349	2444339.10	1980 Apr 9 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W350	2444339.10	1980 Apr 9 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1980-W351	2444339.13	1980 Apr 9 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1980-Y191	2444339.28	1980 Apr 9 1845:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	82	-	-
1980-W353	2444339.38	1980 Apr 9 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W354	2444339.45	1980 Apr 9 2249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W355	2444339.50	1980 Apr 9 2354:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W356	2444339.50	1980 Apr 10 0003:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1980-W357	2444340.32	1980 Apr 10 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W358	2444340.58	1980 Apr 11 0154:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1980-W359	2444340.60	1980 Apr 11 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1980-W360	2444340.71	1980 Apr 11 0500:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W361	2444340.75	1980 Apr 11 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W362	2444340.79	1980 Apr 11 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1980-W363	2444340.85	1980 Apr 11 0820:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W364	2444341.11	1980 Apr 11 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W365	2444341.15	1980 Apr 11 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W366	2444341.19	1980 Apr 11 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W367	2444341.30	1980 Apr 11 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1980-A17	2444341.38	1980 Apr 11 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-W368	2444341.55	1980 Apr 12 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W369	2444344.06	1980 Apr 14 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W370	2444344.11	1980 Apr 14 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-Y202	2444344.13	1980 Apr 14 1510:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1980-W371	2444344.17	1980 Apr 14 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W372	2444344.38	1980 Apr 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W373	2444344.66	1980 Apr 15 0355:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W374	2444345.19	1980 Apr 15 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1980-W376	2444345.62	1980 Apr 16 0254:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W377	2444346.11	1980 Apr 16 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W378	2444346.11	1980 Apr 16 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W379	2444346.12	1980 Apr 16 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W380	2444346.19	1980 Apr 16 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W381	2444346.28	1980 Apr 16 1849:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W382	2444346.40	1980 Apr 16 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W383	2444346.55	1980 Apr 17 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1980-W384	2444347.11	1980 Apr 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W385	2444348.06	1980 Apr 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W386	2444348.11	1980 Apr 18 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1980-W387	2444348.19	1980 Apr 18 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1980-W388	2444348.38	1980 Apr 18 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W389	2444348.55	1980 Apr 19 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W391	2444351.11	1980 Apr 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1980-W392	2444351.14	1980 Apr 21 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W393	2444351.17	1980 Apr 21 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W394	2444351.19	1980 Apr 21 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W395	2444351.38	1980 Apr 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W396	2444352.39	1980 Apr 22 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W397	2444352.47	1980 Apr 22 2320:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	77	-	-
1980-W398	2444352.51	1980 Apr 23 0010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W399	2444352.51	1980 Apr 23 0020:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	73	-	-
1980-W400	2444352.52	1980 Apr 23 0027:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	75	-	-
1980-W401	2444352.68	1980 Apr 23 0417:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W403	2444353.07	1980 Apr 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W404	2444353.09	1980 Apr 23 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W405	2444353.11	1980 Apr 23 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W406	2444353.20	1980 Apr 23 1641:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1980-Y210	2444353.21	1980 Apr 23 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W407	2444353.22	1980 Apr 23 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1980-W408	2444353.38	1980 Apr 23 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W409	2444353.63	1980 Apr 24 0303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W410	2444354.08	1980 Apr 24 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1980-W411	2444354.38	1980 Apr 24 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W412	2444354.55	1980 Apr 25 0117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W414	2444355.06	1980 Apr 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W415	2444355.10	1980 Apr 25 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1980-W416	2444355.32	1980 Apr 25 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W417	2444355.38	1980 Apr 25 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W418	2444358.06	1980 Apr 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W419	2444358.07	1980 Apr 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1980-W420	2444358.15	1980 Apr 28 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W421	2444358.35	1980 Apr 28 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W422	2444358.55	1980 Apr 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W423	2444359.36	1980 Apr 29 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W425	2444360.06	1980 Apr 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1980-Y221	2444360.10	1980 Apr 30 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1980-W426	2444360.14	1980 Apr 30 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W427	2444360.16	1980 Apr 30 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W428	2444360.51	1980 May 1 0014:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W429	2444360.64	1980 May 1 0325:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W430	2444361.34	1980 May 1 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-Y225	2444361.48	1980 May 1 2327:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1980-W431	2444361.51	1980 May 2 0018:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1980-W432	2444361.52	1980 May 2 0022:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W433	2444361.52	1980 May 2 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-W434	2444362.04	1980 May 2 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W435	2444362.07	1980 May 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1980-W436	2444362.08	1980 May 2 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W437	2444362.28	1980 May 2 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-A18	2444362.36	1980 May 2 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W438	2444362.39	1980 May 2 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W439	2444362.62	1980 May 3 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W440	2444365.06	1980 May 5 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1980-W441	2444365.10	1980 May 5 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1980-W442	2444365.12	1980 May 5 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W443	2444365.15	1980 May 5 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W444	2444365.15	1980 May 5 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W445	2444365.34	1980 May 5 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W446	2444365.37	1980 May 5 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1980-W447	2444367.03	1980 May 7 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W448	2444367.06	1980 May 7 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W449	2444367.13	1980 May 7 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W450	2444367.16	1980 May 7 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W451	2444367.21	1980 May 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1980-Y239	2444367.25	1980 May 7 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W452	2444367.33	1980 May 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-Y240	2444367.37	1980 May 7 2058:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W453	2444367.39	1980 May 7 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W455	2444368.33	1980 May 8 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W456	2444369.06	1980 May 9 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1980-W457	2444369.10	1980 May 9 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W458	2444369.15	1980 May 9 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1980-W459	2444369.18	1980 May 9 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-Y244	2444369.25	1980 May 9 1800:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	90	-	-
1980-W460	2444369.35	1980 May 9 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1980-W461	2444369.40	1980 May 9 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W462	2444372.06	1980 May 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W463	2444372.07	1980 May 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W464	2444372.12	1980 May 12 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	57	-	-
1980-W465	2444372.19	1980 May 12 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1980-W467	2444372.26	1980 May 12 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1980-A19	2444372.28	1980 May 12 1836:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	38	-	-
1980-W468	2444372.33	1980 May 12 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W469	2444372.37	1980 May 12 2052:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1980-W470	2444372.63	1980 May 13 0308:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W471	2444373.33	1980 May 13 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W473	2444374.07	1980 May 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W474	2444374.11	1980 May 14 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W475	2444374.17	1980 May 14 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1980-W476	2444374.21	1980 May 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-Y254	2444374.26	1980 May 14 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-Y255	2444374.29	1980 May 14 1854:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1980-W477	2444374.31	1980 May 14 1925:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W478	2444374.46	1980 May 14 2256:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W479	2444375.21	1980 May 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-W480	2444375.50	1980 May 16 0007:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1980-Y256	2444375.51	1980 May 16 0011:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	82	-	-
1980-W481	2444375.51	1980 May 16 0017:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1980-W482	2444376.06	1980 May 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W483	2444376.10	1980 May 16 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1980-W484	2444376.11	1980 May 16 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W485	2444376.17	1980 May 16 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1980-W486	2444376.37	1980 May 16 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1980-W488	2444379.10	1980 May 19 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1980-W489	2444379.14	1980 May 19 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W490	2444379.18	1980 May 19 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W491	2444379.21	1980 May 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W492	2444379.27	1980 May 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W493	2444379.37	1980 May 19 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1980-W494	2444379.59	1980 May 20 0204:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1980-W495	2444379.61	1980 May 20 0245:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-Y262	2444380.07	1980 May 20 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W496	2444380.09	1980 May 20 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1980-W498	2444380.63	1980 May 21 0303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W499	2444381.07	1980 May 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W500	2444381.10	1980 May 21 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	60	-	-
1980-W501	2444381.12	1980 May 21 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W502	2444381.26	1980 May 21 1817:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W503	2444381.27	1980 May 21 1826:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	76	-	-
1980-W504	2444381.41	1980 May 21 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W505	2444382.00	1980 May 22 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1980-W506	2444382.41	1980 May 22 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W507	2444383.06	1980 May 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W508	2444383.07	1980 May 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W509	2444383.08	1980 May 23 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1980-W510	2444383.08	1980 May 23 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W511	2444383.11	1980 May 23 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1980-W513	2444386.28	1980 May 26 1847:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-Y279	2444386.35	1980 May 26 2030:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W514	2444386.38	1980 May 26 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-Y280	2444387.04	1980 May 27 1259:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1980-W516	2444387.10	1980 May 27 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W518	2444387.38	1980 May 27 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1980-W521	2444387.62	1980 May 28 0247:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W522	2444388.06	1980 May 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1980-W523	2444388.07	1980 May 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1980-W524	2444388.10	1980 May 28 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W525	2444388.10	1980 May 28 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1980-W526	2444388.11	1980 May 28 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	54	-	-
1980-Y286	2444388.15	1980 May 28 1530:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W527	2444388.16	1980 May 28 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-W528	2444388.19	1980 May 28 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W530	2444389.15	1980 May 29 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1980-Y288	2444389.29	1980 May 29 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W531	2444389.61	1980 May 30 0245:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W532	2444390.06	1980 May 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-Y289	2444390.08	1980 May 30 1400:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W533	2444390.11	1980 May 30 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1980-A20	2444390.13	1980 May 30 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	37	-	-
1980-W534	2444390.26	1980 May 30 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W537	2444392.93	1980 Jun 2 1018:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-Y292	2444393.07	1980 Jun 2 1343:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1980-W539	2444393.07	1980 Jun 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W540	2444393.10	1980 Jun 2 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W541	2444393.16	1980 Jun 2 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W542	2444393.17	1980 Jun 2 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W543	2444393.52	1980 Jun 3 0033:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W544	2444394.35	1980 Jun 3 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W546	2444395.04	1980 Jun 4 1256:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-A21	2444395.06	1980 Jun 4 1330:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	49	-	-
1980-W547	2444395.08	1980 Jun 4 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W548	2444395.17	1980 Jun 4 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	74	-	-
1980-W549	2444395.19	1980 Jun 4 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1980-W550	2444395.27	1980 Jun 4 1833:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1980-W551	2444396.21	1980 Jun 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1980-W552	2444396.28	1980 Jun 5 1847:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W553	2444396.33	1980 Jun 5 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-Y301	2444396.38	1980 Jun 5 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1980-W554	2444396.40	1980 Jun 5 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1980-W555	2444396.40	1980 Jun 5 2141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1980-W556	2444396.94	1980 Jun 6 1031:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W557	2444397.06	1980 Jun 6 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1980-W558	2444397.08	1980 Jun 6 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W559	2444397.14	1980 Jun 6 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W560	2444397.33	1980 Jun 6 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W561	2444397.39	1980 Jun 6 2115:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W562	2444397.40	1980 Jun 6 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1980-W563	2444397.63	1980 Jun 7 0307:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W564	2444400.03	1980 Jun 9 1245:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W565	2444400.07	1980 Jun 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1980-W566	2444400.13	1980 Jun 9 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W567	2444400.14	1980 Jun 9 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1980-W569	2444400.18	1980 Jun 9 1617:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	62	-	-
1980-W570	2444400.19	1980 Jun 9 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-W571	2444400.23	1980 Jun 9 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1980-W573	2444400.26	1980 Jun 9 1811:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1980-A22	2444400.33	1980 Jun 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-A23	2444400.37	1980 Jun 9 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	44	-	-
1980-W575	2444401.94	1980 Jun 11 1027:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-A24	2444402.06	1980 Jun 11 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	45	-	-
1980-W576	2444402.07	1980 Jun 11 1337:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1980-W577	2444402.07	1980 Jun 11 1345:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W578	2444402.10	1980 Jun 11 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	68	-	-
1980-W579	2444402.11	1980 Jun 11 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W580	2444402.15	1980 Jun 11 1536:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1980-Y306	2444402.19	1980 Jun 11 1627:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-Y307	2444402.30	1980 Jun 11 1910:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W581	2444402.33	1980 Jun 11 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-Y309	2444402.39	1980 Jun 11 2122:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1980-W582	2444402.41	1980 Jun 11 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1980-W583	2444402.45	1980 Jun 11 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W584	2444403.12	1980 Jun 12 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W585	2444404.07	1980 Jun 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W586	2444404.13	1980 Jun 13 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W587	2444404.14	1980 Jun 13 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W588	2444404.15	1980 Jun 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W589	2444404.29	1980 Jun 13 1901:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W590	2444404.38	1980 Jun 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1980-W591	2444404.52	1980 Jun 14 0032:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W592	2444404.71	1980 Jun 14 0500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1980-W593	2444407.06	1980 Jun 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W594	2444407.07	1980 Jun 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W595	2444407.11	1980 Jun 16 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W596	2444407.19	1980 Jun 16 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1980-W597	2444407.22	1980 Jun 16 1712:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1980-W598	2444407.38	1980 Jun 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1980-W599	2444407.58	1980 Jun 17 0201:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W600	2444408.20	1980 Jun 17 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1980-W601	2444409.06	1980 Jun 18 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W602	2444409.07	1980 Jun 18 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W603	2444409.10	1980 Jun 18 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	74	-	-
1980-W604	2444409.11	1980 Jun 18 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1980-Y314	2444409.17	1980 Jun 18 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W605	2444409.19	1980 Jun 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W607	2444409.33	1980 Jun 18 1956:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	66	-	-
1980-W608	2444409.36	1980 Jun 18 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W609	2444410.53	1980 Jun 20 0040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W610	2444410.93	1980 Jun 20 1025:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W611	2444411.07	1980 Jun 20 1341:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1980-W612	2444411.07	1980 Jun 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-Y317	2444411.07	1980 Jun 20 1345:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1980-W613	2444411.09	1980 Jun 20 1406:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W614	2444411.10	1980 Jun 20 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W615	2444411.25	1980 Jun 20 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1980-W616	2444414.07	1980 Jun 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W617	2444414.13	1980 Jun 23 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W618	2444414.14	1980 Jun 23 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W619	2444414.35	1980 Jun 23 2021:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W620	2444414.41	1980 Jun 23 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W621	2444414.60	1980 Jun 24 0222:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W622	2444415.12	1980 Jun 24 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1980-W623	2444415.52	1980 Jun 25 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W625	2444415.93	1980 Jun 25 1015:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-Y322	2444416.05	1980 Jun 25 1314:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1980-W626	2444416.09	1980 Jun 25 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W627	2444416.10	1980 Jun 25 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W628	2444416.18	1980 Jun 25 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W629	2444416.35	1980 Jun 25 2019:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-W630	2444416.62	1980 Jun 26 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W631	2444417.13	1980 Jun 26 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-Y325	2444417.81	1980 Jun 27 0730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1980-W633	2444417.87	1980 Jun 27 0849:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1980-W634	2444418.08	1980 Jun 27 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W635	2444418.13	1980 Jun 27 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-W636	2444418.24	1980 Jun 27 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W637	2444418.34	1980 Jun 27 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W639	2444421.08	1980 Jun 30 1348:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1980-W640	2444421.10	1980 Jun 30 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	58	-	-
1980-W641	2444421.16	1980 Jun 30 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W642	2444421.19	1980 Jun 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1980-W643	2444421.33	1980 Jun 30 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W644	2444421.53	1980 Jul 1 0045:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W645	2444422.34	1980 Jul 1 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W646	2444423.06	1980 Jul 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-A25	2444423.07	1980 Jul 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1980-W647	2444423.10	1980 Jul 2 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	67	-	-
1980-W648	2444423.13	1980 Jul 2 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W649	2444423.14	1980 Jul 2 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-Y329	2444423.17	1980 Jul 2 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W650	2444423.24	1980 Jul 2 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1980-W651	2444423.42	1980 Jul 2 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W652	2444423.50	1980 Jul 3 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W653	2444424.39	1980 Jul 3 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W654	2444425.35	1980 Jul 4 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W657	2444428.04	1980 Jul 7 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W658	2444428.06	1980 Jul 7 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W659	2444428.07	1980 Jul 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W660	2444428.10	1980 Jul 7 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W661	2444428.12	1980 Jul 7 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W662	2444428.25	1980 Jul 7 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-W663	2444428.38	1980 Jul 7 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W664	2444428.40	1980 Jul 7 2133:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W665	2444430.07	1980 Jul 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W666	2444430.07	1980 Jul 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-Y335	2444430.09	1980 Jul 9 1403:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W667	2444430.12	1980 Jul 9 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1980-W668	2444430.16	1980 Jul 9 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W669	2444430.18	1980 Jul 9 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	53	-	-
1980-A26	2444430.33	1980 Jul 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W670	2444431.33	1980 Jul 10 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W671	2444432.06	1980 Jul 11 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W672	2444432.10	1980 Jul 11 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1980-A27	2444432.11	1980 Jul 11 1442:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	42	-	-
1980-W673	2444432.14	1980 Jul 11 1521:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W674	2444432.18	1980 Jul 11 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1980-W675	2444432.25	1980 Jul 11 1807:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-A28	2444432.33	1980 Jul 11 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1980-W676	2444432.55	1980 Jul 12 0115:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W677	2444435.07	1980 Jul 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W678	2444435.07	1980 Jul 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W679	2444435.10	1980 Jul 14 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W680	2444435.13	1980 Jul 14 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W681	2444435.17	1980 Jul 14 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W682	2444435.24	1980 Jul 14 1738:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1980-A29	2444435.33	1980 Jul 14 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W683	2444436.33	1980 Jul 15 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W684	2444437.06	1980 Jul 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W686	2444437.10	1980 Jul 16 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W687	2444437.14	1980 Jul 16 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-W688	2444437.17	1980 Jul 16 1607:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-Y344	2444437.29	1980 Jul 16 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W689	2444437.36	1980 Jul 16 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W690	2444437.52	1980 Jul 17 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W692	2444438.17	1980 Jul 17 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W693	2444438.33	1980 Jul 17 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W694	2444439.10	1980 Jul 18 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1980-W695	2444439.16	1980 Jul 18 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1980-W696	2444439.30	1980 Jul 18 1908:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W697	2444439.33	1980 Jul 18 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W698	2444442.06	1980 Jul 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W699	2444442.14	1980 Jul 21 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1980-A30	2444442.33	1980 Jul 21 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1980-W700	2444442.43	1980 Jul 21 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W702	2444444.06	1980 Jul 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W703	2444444.06	1980 Jul 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1980-Y351	2444444.11	1980 Jul 23 1440:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	87	-	-
1980-W704	2444444.12	1980 Jul 23 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W705	2444444.14	1980 Jul 23 1517:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W706	2444444.18	1980 Jul 23 1614:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	61	-	-
1980-W708	2444444.25	1980 Jul 23 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-Y353	2444444.25	1980 Jul 23 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-Y354	2444444.29	1980 Jul 23 1856:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1980-W709	2444444.32	1980 Jul 23 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1980-W710	2444444.33	1980 Jul 23 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W712	2444445.34	1980 Jul 24 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W715	2444446.06	1980 Jul 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W716	2444446.09	1980 Jul 25 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W717	2444446.11	1980 Jul 25 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1980-W718	2444446.21	1980 Jul 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-W719	2444446.33	1980 Jul 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-Y357	2444448.92	1980 Jul 28 0959:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1980-W720	2444449.08	1980 Jul 28 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1980-W721	2444449.09	1980 Jul 28 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1980-W722	2444449.15	1980 Jul 28 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W723	2444449.32	1980 Jul 28 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-A31	2444450.53	1980 Jul 30 0049:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1980-W725	2444451.13	1980 Jul 30 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W726	2444451.21	1980 Jul 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-Y361	2444451.23	1980 Jul 30 1735:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-Y362	2444451.25	1980 Jul 30 1800:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1980-W727	2444451.38	1980 Jul 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W728	2444451.40	1980 Jul 30 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W729	2444452.02	1980 Jul 31 1232:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1980-W730	2444453.06	1980 Aug 1 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W731	2444453.07	1980 Aug 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1980-W732	2444453.11	1980 Aug 1 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W733	2444453.22	1980 Aug 1 1715:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W734	2444453.25	1980 Aug 1 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1980-W735	2444453.34	1980 Aug 1 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W736	2444456.04	1980 Aug 4 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W737	2444456.07	1980 Aug 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W738	2444456.11	1980 Aug 4 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W739	2444456.33	1980 Aug 4 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W740	2444456.38	1980 Aug 4 2102:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W741	2444457.07	1980 Aug 5 1336:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1980-W742	2444457.33	1980 Aug 5 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W745	2444458.06	1980 Aug 6 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1980-Y366	2444458.08	1980 Aug 6 1356:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W746	2444458.10	1980 Aug 6 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W747	2444458.14	1980 Aug 6 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-Y368	2444458.25	1980 Aug 6 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W748	2444458.33	1980 Aug 6 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W749	2444459.14	1980 Aug 7 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W750	2444459.33	1980 Aug 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-W751	2444459.41	1980 Aug 7 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W752	2444460.13	1980 Aug 8 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1980-W753	2444460.25	1980 Aug 8 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1980-W754	2444460.33	1980 Aug 8 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W755	2444460.69	1980 Aug 9 0430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1980-W756	2444463.07	1980 Aug 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W757	2444463.07	1980 Aug 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W758	2444463.10	1980 Aug 11 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W759	2444463.18	1980 Aug 11 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1980-W760	2444463.21	1980 Aug 11 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W761	2444463.33	1980 Aug 11 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W762	2444464.33	1980 Aug 12 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W763	2444465.11	1980 Aug 13 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W764	2444465.14	1980 Aug 13 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1980-W765	2444465.18	1980 Aug 13 1621:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W766	2444465.27	1980 Aug 13 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-Y374	2444465.37	1980 Aug 13 2058:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W767	2444465.41	1980 Aug 13 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-Y375	2444465.46	1980 Aug 13 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	80	-	-
1980-W768	2444465.50	1980 Aug 14 0004:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W769	2444465.51	1980 Aug 14 0019:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	59	-	-
1980-W770	2444465.65	1980 Aug 14 0342:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	58	-	-
1980-W771	2444465.98	1980 Aug 14 1137:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1980-W772	2444466.33	1980 Aug 14 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W773	2444467.07	1980 Aug 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1980-W774	2444467.09	1980 Aug 15 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1980-W775	2444467.10	1980 Aug 15 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W776	2444467.18	1980 Aug 15 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W777	2444467.19	1980 Aug 15 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W778	2444467.41	1980 Aug 15 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1980-W779	2444470.05	1980 Aug 18 1313:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1980-W780	2444470.10	1980 Aug 18 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1980-W781	2444470.12	1980 Aug 18 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1980-W782	2444470.28	1980 Aug 18 1845:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W783	2444470.40	1980 Aug 18 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W784	2444471.33	1980 Aug 19 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W785	2444471.53	1980 Aug 20 0042:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W787	2444472.10	1980 Aug 20 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-Y382	2444472.11	1980 Aug 20 1445:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W788	2444472.12	1980 Aug 20 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W789	2444472.14	1980 Aug 20 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1980-W790	2444472.18	1980 Aug 20 1614:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	52	-	-
1980-W792	2444472.19	1980 Aug 20 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W793	2444472.23	1980 Aug 20 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-W795	2444473.40	1980 Aug 21 2137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W796	2444474.06	1980 Aug 22 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1980-W797	2444474.07	1980 Aug 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W798	2444474.10	1980 Aug 22 1425:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	67	-	-
1980-W799	2444474.11	1980 Aug 22 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1980-W800	2444474.33	1980 Aug 22 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W801	2444474.40	1980 Aug 22 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-Y383	2444477.05	1980 Aug 25 1314:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1980-W802	2444477.07	1980 Aug 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1980-W803	2444477.25	1980 Aug 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W804	2444477.34	1980 Aug 25 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W805	2444477.39	1980 Aug 25 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1980-W806	2444477.59	1980 Aug 26 0208:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W807	2444478.35	1980 Aug 26 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-Y387	2444478.64	1980 Aug 27 0320:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1980-W809	2444478.70	1980 Aug 27 0449:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	70	-	-
1980-W810	2444479.06	1980 Aug 27 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1980-Y390	2444479.25	1980 Aug 27 1755:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1980-W811	2444479.25	1980 Aug 27 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1980-W812	2444479.33	1980 Aug 27 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1980-W813	2444480.18	1980 Aug 28 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W814	2444481.06	1980 Aug 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1980-W815	2444481.10	1980 Aug 29 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W816	2444481.16	1980 Aug 29 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1980-W817	2444481.33	1980 Aug 29 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W818	2444484.12	1980 Sep 1 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W819	2444485.14	1980 Sep 2 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	51	-	-
1980-W820	2444485.32	1980 Sep 2 1934:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1980-W822	2444485.64	1980 Sep 3 0323:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W823	2444485.93	1980 Sep 3 1014:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1980-W824	2444486.06	1980 Sep 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1980-Y393	2444486.08	1980 Sep 3 1352:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W826	2444486.11	1980 Sep 3 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1980-W827	2444486.18	1980 Sep 3 1622:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1980-Y397	2444486.25	1980 Sep 3 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W828	2444486.28	1980 Sep 3 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1980-W830	2444486.35	1980 Sep 3 2024:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W831	2444486.63	1980 Sep 4 0312:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W832	2444487.52	1980 Sep 5 0031:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W834	2444487.89	1980 Sep 5 0921:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	52	-	-
1980-W835	2444488.05	1980 Sep 5 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-W836	2444488.10	1980 Sep 5 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W837	2444488.27	1980 Sep 5 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-A33	2444488.29	1980 Sep 5 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	41	-	-
1980-W838	2444488.33	1980 Sep 5 1951:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	79	-	-
1980-W839	2444488.35	1980 Sep 5 2018:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W840	2444488.35	1980 Sep 5 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-A34	2444491.02	1980 Sep 8 1230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1980-W841	2444491.04	1980 Sep 8 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	72	-	-
1980-W842	2444491.07	1980 Sep 8 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1980-W843	2444491.14	1980 Sep 8 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1980-W844	2444491.26	1980 Sep 8 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W845	2444491.40	1980 Sep 8 2138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W848	2444492.27	1980 Sep 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W849	2444492.42	1980 Sep 9 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1980-W851	2444493.05	1980 Sep 10 1307:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1980-W852	2444493.05	1980 Sep 10 1310:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1980-W853	2444493.07	1980 Sep 10 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1980-Y403	2444493.09	1980 Sep 10 1404:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-W854	2444493.19	1980 Sep 10 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-Y404	2444493.25	1980 Sep 10 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1980-W855	2444493.28	1980 Sep 10 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W856	2444494.41	1980 Sep 11 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1980-W857	2444494.67	1980 Sep 12 0406:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W859	2444495.07	1980 Sep 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-W860	2444495.14	1980 Sep 12 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W861	2444495.28	1980 Sep 12 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1980-W863	2444497.56	1980 Sep 15 0119:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W865	2444498.06	1980 Sep 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1980-W866	2444498.07	1980 Sep 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1980-W867	2444498.09	1980 Sep 15 1403:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1980-W868	2444498.13	1980 Sep 15 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W869	2444498.15	1980 Sep 15 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W870	2444498.18	1980 Sep 15 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W871	2444498.30	1980 Sep 15 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W872	2444498.34	1980 Sep 15 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W873	2444498.67	1980 Sep 16 0411:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W875	2444500.02	1980 Sep 17 1230:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1980-Y408	2444500.08	1980 Sep 17 1400:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W876	2444500.11	1980 Sep 17 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1980-W877	2444500.19	1980 Sep 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-Y410	2444500.21	1980 Sep 17 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-W878	2444500.25	1980 Sep 17 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W879	2444500.40	1980 Sep 17 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W880	2444501.12	1980 Sep 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1980-W881	2444501.39	1980 Sep 18 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W883	2444502.05	1980 Sep 19 1304:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-W884	2444502.07	1980 Sep 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1980-W885	2444502.12	1980 Sep 19 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1980-W886	2444502.15	1980 Sep 19 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W887	2444502.16	1980 Sep 19 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-Y412	2444502.17	1980 Sep 19 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1980-W888	2444502.19	1980 Sep 19 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W889	2444502.21	1980 Sep 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1980-W890	2444502.33	1980 Sep 19 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1980-W891	2444502.61	1980 Sep 20 0232:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W892	2444505.11	1980 Sep 22 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	54	-	-
1980-W893	2444505.20	1980 Sep 22 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W894	2444505.43	1980 Sep 22 2218:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W895	2444506.18	1980 Sep 23 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1980-A36	2444506.33	1980 Sep 23 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1980-W897	2444507.05	1980 Sep 24 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W898	2444507.08	1980 Sep 24 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1980-W899	2444507.11	1980 Sep 24 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1980-W900	2444507.13	1980 Sep 24 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1980-W901	2444507.27	1980 Sep 24 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-Y417	2444507.30	1980 Sep 24 1907:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W902	2444507.33	1980 Sep 24 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W903	2444508.28	1980 Sep 25 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W904	2444508.33	1980 Sep 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W905	2444509.00	1980 Sep 26 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1980-W906	2444509.04	1980 Sep 26 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1980-W907	2444509.12	1980 Sep 26 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1980-W908	2444509.16	1980 Sep 26 1554:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W909	2444509.21	1980 Sep 26 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W910	2444509.34	1980 Sep 26 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W911	2444512.06	1980 Sep 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-W912	2444512.10	1980 Sep 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1980-W913	2444512.12	1980 Sep 29 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1980-W914	2444512.25	1980 Sep 29 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W915	2444512.26	1980 Sep 29 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1980-W916	2444512.27	1980 Sep 29 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1980-W917	2444512.38	1980 Sep 29 2112:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1980-A37	2444512.54	1980 Sep 30 0055:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W918	2444512.60	1980 Sep 30 0218:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1980-W919	2444513.33	1980 Sep 30 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1980-Y419	2444514.07	1980 Oct 1 1344:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-Y421	2444514.17	1980 Oct 1 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1980-W924	2444514.20	1980 Oct 1 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1980-W925	2444514.31	1980 Oct 1 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W926	2444514.43	1980 Oct 1 2223:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1980-W927	2444514.44	1980 Oct 1 2226:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W928	2444515.10	1980 Oct 2 1419:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W929	2444515.26	1980 Oct 2 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W930	2444515.33	1980 Oct 2 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-W932	2444516.04	1980 Oct 3 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W933	2444516.26	1980 Oct 3 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W934	2444519.10	1980 Oct 6 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W935	2444519.15	1980 Oct 6 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W937	2444519.39	1980 Oct 6 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W939	2444520.12	1980 Oct 7 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1980-W940	2444520.14	1980 Oct 7 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W941	2444520.27	1980 Oct 7 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W942	2444520.52	1980 Oct 8 0026:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1980-W944	2444520.74	1980 Oct 8 0538:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W946	2444520.90	1980 Oct 8 0938:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W948	2444521.15	1980 Oct 8 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-Y430	2444521.60	1980 Oct 9 0222:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W949	2444522.03	1980 Oct 9 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W950	2444522.15	1980 Oct 9 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1980-W952	2444523.43	1980 Oct 10 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W955	2444527.07	1980 Oct 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-W956	2444527.15	1980 Oct 14 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W957	2444527.16	1980 Oct 14 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W959	2444528.04	1980 Oct 15 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W960	2444528.05	1980 Oct 15 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1980-W961	2444528.10	1980 Oct 15 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1980-W962	2444528.12	1980 Oct 15 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1980-W963	2444528.15	1980 Oct 15 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W964	2444528.29	1980 Oct 15 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1980-W966	2444528.39	1980 Oct 15 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W967	2444528.85	1980 Oct 16 0818:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-Y440	2444529.12	1980 Oct 16 1500:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1980-W968	2444529.14	1980 Oct 16 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W971	2444529.31	1980 Oct 16 1921:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1980-W973	2444530.06	1980 Oct 17 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W974	2444530.07	1980 Oct 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1980-W975	2444530.28	1980 Oct 17 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1980-W977	2444530.59	1980 Oct 18 0213:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1980-W980	2444533.03	1980 Oct 20 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W981	2444533.07	1980 Oct 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1980-W982	2444533.15	1980 Oct 20 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-Y443	2444535.08	1980 Oct 22 1352:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W986	2444535.17	1980 Oct 22 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-Y445	2444535.23	1980 Oct 22 1730:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1980-W988	2444535.28	1980 Oct 22 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1980-W989	2444535.34	1980 Oct 22 2003:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W990	2444536.18	1980 Oct 23 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1980-W991	2444536.41	1980 Oct 23 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W993	2444537.11	1980 Oct 24 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1980-W994	2444537.12	1980 Oct 24 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1980-W995	2444537.15	1980 Oct 24 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-Y448	2444537.29	1980 Oct 24 1902:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W996	2444537.32	1980 Oct 24 1938:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1980-A39	2444537.33	1980 Oct 24 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1980-W997	2444537.40	1980 Oct 24 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W998	2444537.40	1980 Oct 24 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1980-W999	2444540.05	1980 Oct 27 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W1000	2444540.11	1980 Oct 27 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1980-W1001	2444540.32	1980 Oct 27 1943:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W1002	2444540.36	1980 Oct 27 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1980-W1003	2444541.21	1980 Oct 28 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1980-W1004	2444541.31	1980 Oct 28 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1980-W1005	2444541.38	1980 Oct 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1980-W1008	2444542.06	1980 Oct 29 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W1009	2444542.19	1980 Oct 29 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1980-W1010	2444542.29	1980 Oct 29 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W1011	2444542.30	1980 Oct 29 1910:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	68	-	-
1980-W1012	2444542.32	1980 Oct 29 1941:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W1013	2444543.42	1980 Oct 30 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-Y454	2444543.53	1980 Oct 31 0042:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W1014	2444544.03	1980 Oct 31 1246:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-W1015	2444544.19	1980 Oct 31 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1981-W01	2444607.05	1981 Jan 2 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W02	2444607.16	1981 Jan 2 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1981-W03	2444610.11	1981 Jan 5 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1981-W05	2444612.06	1981 Jan 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W06	2444613.04	1981 Jan 8 1301:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1981-W07	2444614.10	1981 Jan 9 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W08	2444617.05	1981 Jan 12 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W09	2444617.11	1981 Jan 12 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W10	2444617.28	1981 Jan 12 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1981-W14	2444619.06	1981 Jan 14 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-Y19	2444619.38	1981 Jan 14 2100:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1981-W17	2444621.11	1981 Jan 16 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W18	2444621.12	1981 Jan 16 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W20	2444624.06	1981 Jan 19 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W22	2444624.50	1981 Jan 19 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1981-W27	2444626.06	1981 Jan 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W30	2444626.28	1981 Jan 21 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1981-Y26	2444626.33	1981 Jan 21 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1981-W32	2444627.13	1981 Jan 22 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1981-W34	2444628.04	1981 Jan 23 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W36	2444628.12	1981 Jan 23 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W38	2444631.15	1981 Jan 26 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W39	2444631.15	1981 Jan 26 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1981-W41	2444633.03	1981 Jan 28 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-Y36	2444633.11	1981 Jan 28 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	82	-	-
1981-W42	2444633.23	1981 Jan 28 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1981-W43	2444633.50	1981 Jan 28 2353:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1981-W44	2444635.06	1981 Jan 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W45	2444635.15	1981 Jan 30 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W46	2444638.11	1981 Feb 2 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1981-W48	2444638.33	1981 Feb 2 1955:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W49	2444639.04	1981 Feb 3 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W53	2444640.20	1981 Feb 4 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W54	2444640.21	1981 Feb 4 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1981-W55	2444640.26	1981 Feb 4 1811:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W56	2444640.38	1981 Feb 4 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1981-Y45	2444640.40	1981 Feb 4 2133:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1981-W57	2444640.42	1981 Feb 4 2203:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W58	2444640.44	1981 Feb 4 2231:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W59	2444640.92	1981 Feb 5 0959:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W60	2444641.09	1981 Feb 5 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W61	2444641.19	1981 Feb 5 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1981-W64	2444642.15	1981 Feb 6 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1981-W65	2444642.37	1981 Feb 6 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1981-W66	2444642.38	1981 Feb 6 2108:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W67	2444642.43	1981 Feb 6 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W68	2444644.94	1981 Feb 9 1032:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-A02	2444645.20	1981 Feb 9 1641:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1981-W69	2444645.24	1981 Feb 9 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1981-W70	2444645.40	1981 Feb 9 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	50	-	-
1981-W71	2444645.43	1981 Feb 9 2221:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W73	2444646.09	1981 Feb 10 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W74	2444646.49	1981 Feb 10 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1981-W75	2444647.06	1981 Feb 11 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-Y53	2444647.11	1981 Feb 11 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-Y54	2444647.20	1981 Feb 11 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W76	2444647.23	1981 Feb 11 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1981-W77	2444647.33	1981 Feb 11 1956:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W78	2444647.33	1981 Feb 11 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-W80	2444648.12	1981 Feb 12 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W81	2444648.41	1981 Feb 12 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W83	2444648.95	1981 Feb 13 1043:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W84	2444649.21	1981 Feb 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1981-W85	2444649.41	1981 Feb 13 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W86	2444649.43	1981 Feb 13 2213:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-W87	2444653.12	1981 Feb 17 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1981-W89	2444653.35	1981 Feb 17 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1981-W93	2444653.94	1981 Feb 18 1031:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W94	2444654.19	1981 Feb 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W95	2444654.38	1981 Feb 18 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W96	2444654.38	1981 Feb 18 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W97	2444654.59	1981 Feb 19 0215:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W98	2444655.19	1981 Feb 19 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1981-W99	2444656.05	1981 Feb 20 1318:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1981-Y67	2444656.12	1981 Feb 20 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W102	2444656.25	1981 Feb 20 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1981-Y68	2444656.34	1981 Feb 20 2015:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W103	2444656.40	1981 Feb 20 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1981-W104	2444656.40	1981 Feb 20 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W106	2444658.93	1981 Feb 23 1019:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W108	2444659.16	1981 Feb 23 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1981-W109	2444659.20	1981 Feb 23 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W110	2444659.37	1981 Feb 23 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W111	2444659.38	1981 Feb 23 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1981-W112	2444659.52	1981 Feb 24 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W114	2444660.25	1981 Feb 24 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W115	2444660.50	1981 Feb 25 0001:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1981-W117	2444661.04	1981 Feb 25 1254:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-Y75	2444661.10	1981 Feb 25 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W118	2444661.20	1981 Feb 25 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W119	2444661.57	1981 Feb 26 0144:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W121	2444662.14	1981 Feb 26 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1981-W123	2444662.32	1981 Feb 26 1936:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1981-W124	2444662.33	1981 Feb 26 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1981-W126	2444662.44	1981 Feb 26 2236:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-Y80	2444662.45	1981 Feb 26 2253:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1981-Y81	2444662.47	1981 Feb 26 2315:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W127	2444662.94	1981 Feb 27 1030:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1981-W128	2444663.10	1981 Feb 27 1424:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	78	-	-
1981-W129	2444663.22	1981 Feb 27 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-Y83	2444663.39	1981 Feb 27 2125:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W130	2444663.41	1981 Feb 27 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W131	2444663.42	1981 Feb 27 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W133	2444666.15	1981 Mar 2 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1981-W134	2444666.21	1981 Mar 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-W135	2444666.38	1981 Mar 2 2102:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W136	2444666.38	1981 Mar 2 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W137	2444666.41	1981 Mar 2 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W138	2444667.04	1981 Mar 3 1301:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W140	2444668.14	1981 Mar 4 1517:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W141	2444668.21	1981 Mar 4 1709:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1981-A03	2444668.22	1981 Mar 4 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	49	-	-
1981-W142	2444668.38	1981 Mar 4 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W143	2444669.38	1981 Mar 5 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W144	2444670.05	1981 Mar 6 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W145	2444670.10	1981 Mar 6 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W146	2444670.15	1981 Mar 6 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1981-W147	2444670.23	1981 Mar 6 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-Y91	2444670.26	1981 Mar 6 1811:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1981-W148	2444670.28	1981 Mar 6 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W149	2444670.39	1981 Mar 6 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W150	2444670.52	1981 Mar 7 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1981-W152	2444673.11	1981 Mar 9 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1981-W153	2444673.16	1981 Mar 9 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W154	2444673.20	1981 Mar 9 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-W155	2444673.37	1981 Mar 9 2059:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W156	2444673.38	1981 Mar 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1981-W157	2444673.51	1981 Mar 10 0008:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	79	-	-
1981-W158	2444674.25	1981 Mar 10 1759:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1981-W160	2444675.16	1981 Mar 11 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-A04	2444675.16	1981 Mar 11 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	42	-	-
1981-W161	2444675.21	1981 Mar 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1981-W162	2444675.38	1981 Mar 11 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1981-W163	2444675.41	1981 Mar 11 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1981-W164	2444676.29	1981 Mar 12 1855:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W165	2444676.39	1981 Mar 12 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W166	2444677.06	1981 Mar 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W167	2444677.10	1981 Mar 13 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1981-A05	2444677.40	1981 Mar 13 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1981-W168	2444678.76	1981 Mar 15 0609:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W169	2444678.89	1981 Mar 15 0921:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1981-W170	2444679.13	1981 Mar 15 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1981-W171	2444680.06	1981 Mar 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W172	2444680.40	1981 Mar 16 2133:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W173	2444681.10	1981 Mar 17 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1981-W174	2444681.35	1981 Mar 17 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1981-A06	2444681.39	1981 Mar 17 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1981-W177	2444682.16	1981 Mar 18 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W178	2444682.22	1981 Mar 18 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W179	2444682.36	1981 Mar 18 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1981-W180	2444682.39	1981 Mar 18 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W182	2444683.35	1981 Mar 19 2019:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W183	2444684.31	1981 Mar 20 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1981-W184	2444684.38	1981 Mar 20 2103:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1981-W185	2444684.39	1981 Mar 20 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1981-W186	2444684.41	1981 Mar 20 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	61	-	-
1981-W187	2444687.11	1981 Mar 23 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W189	2444687.38	1981 Mar 23 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1981-W190	2444688.37	1981 Mar 24 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-Y106	2444688.39	1981 Mar 24 2122:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1981-W191	2444688.41	1981 Mar 24 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1981-W192	2444689.04	1981 Mar 25 1256:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W193	2444689.07	1981 Mar 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1981-Y109	2444689.11	1981 Mar 25 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W194	2444689.19	1981 Mar 25 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1981-Y111	2444689.25	1981 Mar 25 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W195	2444689.27	1981 Mar 25 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1981-W196	2444689.40	1981 Mar 25 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W197	2444689.43	1981 Mar 25 2218:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W200	2444690.13	1981 Mar 26 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1981-W202	2444690.37	1981 Mar 26 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1981-W203	2444690.38	1981 Mar 26 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W205	2444691.12	1981 Mar 27 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W206	2444691.16	1981 Mar 27 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W207	2444691.20	1981 Mar 27 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-W208	2444691.38	1981 Mar 27 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-Y119	2444694.03	1981 Mar 30 1246:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1981-W209	2444694.19	1981 Mar 30 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W210	2444694.30	1981 Mar 30 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W211	2444694.38	1981 Mar 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-A07	2444694.40	1981 Mar 30 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1981-W212	2444694.43	1981 Mar 30 2215:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W213	2444695.32	1981 Mar 31 1941:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W214	2444695.51	1981 Apr 1 0015:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1981-Y124	2444695.92	1981 Apr 1 1009:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1981-W215	2444695.99	1981 Apr 1 1140:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	72	-	-
1981-W216	2444696.26	1981 Apr 1 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-Y129	2444696.31	1981 Apr 1 1926:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W217	2444696.46	1981 Apr 1 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W218	2444697.11	1981 Apr 2 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1981-W220	2444698.16	1981 Apr 3 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W221	2444698.20	1981 Apr 3 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1981-W222	2444698.30	1981 Apr 3 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W223	2444698.35	1981 Apr 3 2029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1981-W224	2444698.37	1981 Apr 3 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1981-W226	2444701.07	1981 Apr 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W227	2444701.11	1981 Apr 6 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W228	2444701.33	1981 Apr 6 1952:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W229	2444702.15	1981 Apr 7 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1981-W230	2444702.35	1981 Apr 7 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1981-W231	2444702.38	1981 Apr 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W234	2444703.10	1981 Apr 8 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W236	2444703.26	1981 Apr 8 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W237	2444703.35	1981 Apr 8 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W238	2444704.15	1981 Apr 9 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1981-W239	2444704.19	1981 Apr 9 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1981-W240	2444704.71	1981 Apr 10 0506:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W241	2444705.04	1981 Apr 10 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W242	2444705.19	1981 Apr 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1981-W243	2444705.32	1981 Apr 10 1946:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W244	2444705.33	1981 Apr 10 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W245	2444705.39	1981 Apr 10 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W246	2444706.75	1981 Apr 12 0556:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W247	2444707.03	1981 Apr 12 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1981-Y136	2444707.06	1981 Apr 12 1330:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	83	-	-
1981-W248	2444707.10	1981 Apr 12 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1981-Y137	2444707.12	1981 Apr 12 1500:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1981-W249	2444707.16	1981 Apr 12 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1981-W250	2444707.21	1981 Apr 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1981-W251	2444707.21	1981 Apr 12 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W252	2444707.38	1981 Apr 12 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1981-W253	2444707.42	1981 Apr 12 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W254	2444707.50	1981 Apr 13 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W255	2444707.97	1981 Apr 13 1115:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	52	-	-
1981-W256	2444708.00	1981 Apr 13 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-Y138	2444708.12	1981 Apr 13 1500:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	88	-	-
1981-W257	2444708.12	1981 Apr 13 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1981-Y139	2444708.13	1981 Apr 13 1509:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1981-W258	2444708.14	1981 Apr 13 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W259	2444708.17	1981 Apr 13 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1981-W260	2444708.21	1981 Apr 13 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1981-W261	2444708.37	1981 Apr 13 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W262	2444708.38	1981 Apr 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W263	2444708.54	1981 Apr 14 0052:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W264	2444708.89	1981 Apr 14 0925:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-Y140	2444708.93	1981 Apr 14 1017:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1981-W265	2444709.00	1981 Apr 14 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W266	2444709.08	1981 Apr 14 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W267	2444709.12	1981 Apr 14 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1981-W268	2444709.18	1981 Apr 14 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1981-Y141	2444709.21	1981 Apr 14 1702:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1981-Y142	2444709.21	1981 Apr 14 1704:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1981-W269	2444709.23	1981 Apr 14 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W270	2444709.23	1981 Apr 14 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1981-W271	2444709.23	1981 Apr 14 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-Y143	2444709.26	1981 Apr 14 1820:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1981-Y144	2444709.28	1981 Apr 14 1849:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W272	2444709.30	1981 Apr 14 1908:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1981-W273	2444709.31	1981 Apr 14 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1981-Y145	2444709.33	1981 Apr 14 1955:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1981-Y146	2444709.35	1981 Apr 14 2017:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1981-W275	2444709.38	1981 Apr 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W276	2444709.50	1981 Apr 15 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W278	2444710.06	1981 Apr 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-Y149	2444710.11	1981 Apr 15 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W279	2444710.27	1981 Apr 15 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1981-W280	2444710.37	1981 Apr 15 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-A08	2444710.38	1981 Apr 15 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1981-W281	2444712.06	1981 Apr 17 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1981-W282	2444712.35	1981 Apr 17 2026:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W283	2444712.38	1981 Apr 17 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W284	2444715.37	1981 Apr 20 2048:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-Y151	2444715.37	1981 Apr 20 2055:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1981-W285	2444715.38	1981 Apr 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W286	2444716.11	1981 Apr 21 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1981-W287	2444716.35	1981 Apr 21 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-Y156	2444717.09	1981 Apr 22 1411:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W291	2444717.19	1981 Apr 22 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W292	2444717.20	1981 Apr 22 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-Y157	2444717.37	1981 Apr 22 2052:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1981-W293	2444717.39	1981 Apr 22 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1981-W294	2444718.12	1981 Apr 23 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1981-W295	2444719.07	1981 Apr 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W296	2444719.11	1981 Apr 24 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1981-W297	2444719.21	1981 Apr 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W298	2444719.38	1981 Apr 24 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W299	2444721.38	1981 Apr 26 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1981-W301	2444722.06	1981 Apr 27 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W302	2444722.07	1981 Apr 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W304	2444722.16	1981 Apr 27 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1981-W307	2444722.34	1981 Apr 27 2013:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W309	2444724.08	1981 Apr 29 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1981-Y162	2444724.09	1981 Apr 29 1415:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W310	2444724.16	1981 Apr 29 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W311	2444724.18	1981 Apr 29 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1981-W312	2444724.25	1981 Apr 29 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1981-W313	2444724.33	1981 Apr 29 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W314	2444724.37	1981 Apr 29 2046:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W315	2444725.37	1981 Apr 30 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-A09	2444726.15	1981 May 1 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1981-W317	2444726.53	1981 May 2 0038:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W318	2444729.16	1981 May 4 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W319	2444729.29	1981 May 4 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W320	2444729.43	1981 May 4 2219:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1981-W321	2444729.93	1981 May 5 1023:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1981-W322	2444730.10	1981 May 5 1417:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1981-W324	2444731.16	1981 May 6 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-Y170	2444732.16	1981 May 7 1545:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W325	2444732.19	1981 May 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1981-W326	2444732.53	1981 May 8 0042:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1981-W328	2444733.07	1981 May 8 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1981-W329	2444733.15	1981 May 8 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-W330	2444733.35	1981 May 8 2024:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	79	-	-
1981-W331	2444733.37	1981 May 8 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W332	2444736.07	1981 May 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W333	2444736.07	1981 May 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1981-W334	2444736.17	1981 May 11 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1981-W335	2444736.19	1981 May 11 1627:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1981-W338	2444737.95	1981 May 13 1043:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W339	2444738.06	1981 May 13 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W340	2444738.14	1981 May 13 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1981-Y176	2444738.16	1981 May 13 1545:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W341	2444738.16	1981 May 13 1556:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1981-A10	2444738.19	1981 May 13 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	44	-	-
1981-Y178	2444738.27	1981 May 13 1822:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	92	-	-
1981-W342	2444738.29	1981 May 13 1857:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W343	2444739.04	1981 May 14 1255:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W344	2444739.30	1981 May 14 1911:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1981-W345	2444739.33	1981 May 14 1956:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1981-W347	2444740.34	1981 May 15 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W348	2444740.39	1981 May 15 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W349	2444742.94	1981 May 18 1030:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W350	2444743.05	1981 May 18 1304:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1981-W353	2444744.21	1981 May 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-Y187	2444745.07	1981 May 20 1344:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W356	2444745.07	1981 May 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W358	2444745.15	1981 May 20 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W359	2444745.23	1981 May 20 1726:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W360	2444745.33	1981 May 20 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W361	2444746.41	1981 May 21 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1981-A11	2444747.05	1981 May 22 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	46	-	-
1981-W363	2444747.17	1981 May 22 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-Y196	2444747.37	1981 May 22 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W364	2444747.39	1981 May 22 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1981-W365	2444747.39	1981 May 22 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W367	2444750.15	1981 May 25 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-W368	2444750.34	1981 May 25 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W370	2444751.35	1981 May 26 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W371	2444751.40	1981 May 26 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W374	2444751.94	1981 May 27 1027:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W376	2444752.10	1981 May 27 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-Y198	2444752.17	1981 May 27 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1981-W378	2444752.17	1981 May 27 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-Y200	2444752.24	1981 May 27 1740:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W379	2444752.27	1981 May 27 1826:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W380	2444752.37	1981 May 27 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W381	2444752.54	1981 May 28 0055:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W382	2444753.12	1981 May 28 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1981-W384	2444754.04	1981 May 29 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W385	2444754.07	1981 May 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1981-W386	2444754.14	1981 May 29 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1981-W387	2444754.15	1981 May 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1981-W388	2444754.53	1981 May 30 0036:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W389	2444754.53	1981 May 30 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1981-W390	2444757.06	1981 Jun 1 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W391	2444757.07	1981 Jun 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W392	2444757.17	1981 Jun 1 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1981-W393	2444757.33	1981 Jun 1 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1981-W394	2444757.37	1981 Jun 1 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W395	2444758.16	1981 Jun 2 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-Y205	2444759.15	1981 Jun 3 1530:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W397	2444759.21	1981 Jun 3 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1981-W398	2444759.31	1981 Jun 3 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1981-W399	2444759.41	1981 Jun 3 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-W400	2444759.42	1981 Jun 3 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W401	2444759.90	1981 Jun 4 0943:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W402	2444760.10	1981 Jun 4 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W404	2444761.03	1981 Jun 5 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1981-W405	2444761.09	1981 Jun 5 1414:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-Y208	2444761.31	1981 Jun 5 1929:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1981-W406	2444761.33	1981 Jun 5 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W407	2444761.33	1981 Jun 5 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W408	2444764.40	1981 Jun 8 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W409	2444764.90	1981 Jun 9 0930:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W410	2444765.10	1981 Jun 9 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W411	2444765.23	1981 Jun 9 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1981-W414	2444766.06	1981 Jun 10 1331:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-Y215	2444766.08	1981 Jun 10 1349:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W415	2444766.22	1981 Jun 10 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1981-W416	2444766.33	1981 Jun 10 1953:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W417	2444767.04	1981 Jun 11 1256:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W418	2444767.37	1981 Jun 11 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1981-W420	2444768.40	1981 Jun 12 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W421	2444771.53	1981 Jun 16 0041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W422	2444772.03	1981 Jun 16 1245:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-A12	2444772.25	1981 Jun 16 1759:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	41	-	-
1981-A13	2444773.04	1981 Jun 17 1303:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1981-Y235	2444773.07	1981 Jun 17 1344:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1981-Y238	2444773.33	1981 Jun 17 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W425	2444773.35	1981 Jun 17 2027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W426	2444773.40	1981 Jun 17 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W427	2444773.89	1981 Jun 18 0925:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-Y240	2444774.17	1981 Jun 18 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-A14	2444774.20	1981 Jun 18 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	37	-	-
1981-W428	2444774.34	1981 Jun 18 2012:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W430	2444775.07	1981 Jun 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W435	2444778.04	1981 Jun 22 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W436	2444778.10	1981 Jun 22 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W437	2444778.33	1981 Jun 22 1955:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1981-W438	2444778.39	1981 Jun 22 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1981-W444	2444780.09	1981 Jun 24 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W445	2444780.10	1981 Jun 24 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1981-W446	2444780.17	1981 Jun 24 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W447	2444780.19	1981 Jun 24 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-Y253	2444780.20	1981 Jun 24 1649:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W448	2444780.22	1981 Jun 24 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W449	2444780.23	1981 Jun 24 1735:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1981-W450	2444781.33	1981 Jun 25 1952:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W452	2444781.91	1981 Jun 26 0944:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W453	2444782.10	1981 Jun 26 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1981-W454	2444782.19	1981 Jun 26 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W456	2444785.06	1981 Jun 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-A17	2444785.07	1981 Jun 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1981-W457	2444785.42	1981 Jun 29 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W458	2444786.19	1981 Jun 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W459	2444786.40	1981 Jun 30 2141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W460	2444786.89	1981 Jul 1 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-Y263	2444787.39	1981 Jul 1 2115:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-Y264	2444787.40	1981 Jul 1 2132:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1981-W461	2444787.41	1981 Jul 1 2144:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W462	2444787.42	1981 Jul 1 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W463	2444787.52	1981 Jul 2 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1981-W465	2444788.08	1981 Jul 2 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1981-W466	2444788.19	1981 Jul 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W467	2444789.04	1981 Jul 3 1251:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W468	2444792.07	1981 Jul 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W469	2444792.09	1981 Jul 6 1406:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W470	2444792.19	1981 Jul 6 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-W471	2444792.37	1981 Jul 6 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W472	2444793.52	1981 Jul 8 0034:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-Y271	2444794.16	1981 Jul 8 1545:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W475	2444794.19	1981 Jul 8 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1981-W476	2444794.22	1981 Jul 8 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1981-W477	2444794.25	1981 Jul 8 1807:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1981-W478	2444794.40	1981 Jul 8 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W479	2444795.04	1981 Jul 9 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W480	2444795.06	1981 Jul 9 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1981-W481	2444795.11	1981 Jul 9 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W482	2444795.40	1981 Jul 9 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W483	2444796.06	1981 Jul 10 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W484	2444796.21	1981 Jul 10 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W485	2444800.10	1981 Jul 14 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W486	2444800.19	1981 Jul 14 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1981-W487	2444801.06	1981 Jul 15 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W488	2444801.07	1981 Jul 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-Y278	2444802.27	1981 Jul 16 1822:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W489	2444802.29	1981 Jul 16 1853:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W490	2444802.43	1981 Jul 16 2218:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W491	2444803.07	1981 Jul 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1981-W493	2444803.37	1981 Jul 17 2052:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	68	-	-
1981-W494	2444803.39	1981 Jul 17 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W495	2444803.41	1981 Jul 17 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1981-W496	2444806.04	1981 Jul 20 1255:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W497	2444806.07	1981 Jul 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W498	2444806.37	1981 Jul 20 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1981-W499	2444807.91	1981 Jul 22 0947:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1981-W500	2444808.08	1981 Jul 22 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1981-W501	2444808.19	1981 Jul 22 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1981-W502	2444808.40	1981 Jul 22 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1981-Y286	2444809.10	1981 Jul 23 1418:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W505	2444809.33	1981 Jul 23 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W506	2444809.35	1981 Jul 23 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W507	2444810.07	1981 Jul 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W508	2444810.07	1981 Jul 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-Y289	2444810.39	1981 Jul 24 2125:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W510	2444810.42	1981 Jul 24 2202:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W511	2444810.53	1981 Jul 25 0040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W512	2444812.90	1981 Jul 27 0933:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-A20	2444813.10	1981 Jul 27 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	49	-	-
1981-W513	2444813.33	1981 Jul 27 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-W514	2444813.35	1981 Jul 27 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W515	2444813.39	1981 Jul 27 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-W516	2444815.08	1981 Jul 29 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W517	2444815.19	1981 Jul 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1981-W518	2444815.27	1981 Jul 29 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W519	2444815.55	1981 Jul 30 0104:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W520	2444816.44	1981 Jul 30 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1981-W521	2444817.04	1981 Jul 31 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W522	2444817.08	1981 Jul 31 1357:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1981-W524	2444817.11	1981 Jul 31 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W525	2444817.35	1981 Jul 31 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W526	2444817.39	1981 Jul 31 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1981-W527	2444820.07	1981 Aug 3 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W528	2444821.22	1981 Aug 4 1719:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1981-W529	2444821.36	1981 Aug 4 2038:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W530	2444821.90	1981 Aug 5 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1981-W531	2444822.03	1981 Aug 5 1246:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1981-W532	2444822.06	1981 Aug 5 1324:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-Y307	2444822.21	1981 Aug 5 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W533	2444822.23	1981 Aug 5 1726:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-W535	2444823.33	1981 Aug 6 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1981-W536	2444824.07	1981 Aug 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1981-W537	2444824.19	1981 Aug 7 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1981-W538	2444824.35	1981 Aug 7 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1981-W539	2444824.42	1981 Aug 7 2208:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W541	2444827.05	1981 Aug 10 1311:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1981-W542	2444827.19	1981 Aug 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W543	2444827.38	1981 Aug 10 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W544	2444828.20	1981 Aug 11 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1981-Y314	2444829.21	1981 Aug 12 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-Y315	2444829.22	1981 Aug 12 1720:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-Y316	2444829.64	1981 Aug 13 0322:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1981-W545	2444829.70	1981 Aug 13 0444:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-Y317	2444830.24	1981 Aug 13 1748:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W546	2444830.26	1981 Aug 13 1809:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W547	2444830.40	1981 Aug 13 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W548	2444830.91	1981 Aug 14 0945:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1981-W549	2444831.06	1981 Aug 14 1320:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W550	2444831.20	1981 Aug 14 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-W551	2444834.04	1981 Aug 17 1256:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1981-W552	2444834.19	1981 Aug 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1981-W553	2444834.38	1981 Aug 17 2111:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1981-W554	2444834.90	1981 Aug 18 0943:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1981-W555	2444835.19	1981 Aug 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1981-W556	2444835.35	1981 Aug 18 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1981-Y322	2444836.21	1981 Aug 19 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1981-W557	2444836.26	1981 Aug 19 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1981-W559	2444838.07	1981 Aug 21 1342:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1981-W560	2444838.19	1981 Aug 21 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1981-W561	2444838.37	1981 Aug 21 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W562	2444838.53	1981 Aug 22 0042:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W563	2444841.07	1981 Aug 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	70	-	-
1981-W564	2444841.07	1981 Aug 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1981-W565	2444841.21	1981 Aug 24 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-W566	2444841.43	1981 Aug 24 2213:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-Y327	2444843.10	1981 Aug 26 1430:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1981-Y328	2444843.28	1981 Aug 26 1845:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-Y329	2444843.33	1981 Aug 26 2002:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W567	2444843.35	1981 Aug 26 2027:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	53	-	-
1981-W568	2444843.36	1981 Aug 26 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1981-W569	2444843.39	1981 Aug 26 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1981-W570	2444844.59	1981 Aug 28 0204:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1981-W571	2444845.07	1981 Aug 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1981-W572	2444847.91	1981 Aug 31 0955:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1981-W573	2444848.07	1981 Aug 31 1345:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1981-W574	2444848.22	1981 Aug 31 1721:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W575	2444848.35	1981 Aug 31 2024:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W576	2444848.36	1981 Aug 31 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1981-W577	2444849.35	1981 Sep 1 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W578	2444849.56	1981 Sep 2 0132:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-Y330	2444850.05	1981 Sep 2 1314:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W580	2444850.07	1981 Sep 2 1334:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1981-Y332	2444850.25	1981 Sep 2 1754:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W583	2444850.27	1981 Sep 2 1826:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W585	2444852.06	1981 Sep 4 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1981-W586	2444852.11	1981 Sep 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1981-W587	2444852.12	1981 Sep 4 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-A21	2444852.23	1981 Sep 4 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	18	-	-
1981-W588	2444852.23	1981 Sep 4 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1981-Y335	2444852.40	1981 Sep 4 2140:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W589	2444852.42	1981 Sep 4 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W590	2444852.42	1981 Sep 4 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W591	2444856.04	1981 Sep 8 1302:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	72	-	-
1981-A23	2444856.31	1981 Sep 8 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1981-W592	2444856.35	1981 Sep 8 2030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	72	-	-
1981-W593	2444856.37	1981 Sep 8 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W594	2444856.43	1981 Sep 8 2218:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W596	2444856.90	1981 Sep 9 0934:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	71	-	-
1981-W598	2444857.25	1981 Sep 9 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1981-W599	2444858.30	1981 Sep 10 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1981-W600	2444858.43	1981 Sep 10 2213:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1981-W602	2444859.07	1981 Sep 11 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1981-W603	2444859.17	1981 Sep 11 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W604	2444859.32	1981 Sep 11 1942:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W605	2444859.74	1981 Sep 12 0544:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-W606	2444859.87	1981 Sep 12 0854:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1981-A24	2444861.17	1981 Sep 13 1604:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	0	-	-
1981-W607	2444861.17	1981 Sep 13 1604:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	61	-	-
1981-W609	2444862.04	1981 Sep 14 1258:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	70	-	-
1981-W610	2444862.07	1981 Sep 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-A25	2444862.16	1981 Sep 14 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1981-W611	2444862.35	1981 Sep 14 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W612	2444863.12	1981 Sep 15 1500:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	71	-	-
1981-W613	2444863.14	1981 Sep 15 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-W614	2444863.42	1981 Sep 15 2207:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1981-W616	2444864.07	1981 Sep 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W617	2444864.22	1981 Sep 16 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W618	2444865.25	1981 Sep 17 1803:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1981-W619	2444865.40	1981 Sep 17 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-Y344	2444866.07	1981 Sep 18 1344:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W620	2444869.14	1981 Sep 21 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1981-W621	2444869.43	1981 Sep 21 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W622	2444869.44	1981 Sep 21 2234:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W623	2444869.90	1981 Sep 22 0938:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W624	2444870.06	1981 Sep 22 1331:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W625	2444870.12	1981 Sep 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1981-Y346	2444870.35	1981 Sep 22 2025:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W627	2444870.39	1981 Sep 22 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W628	2444870.39	1981 Sep 22 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1981-W629	2444871.05	1981 Sep 23 1309:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W630	2444871.29	1981 Sep 23 1851:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1981-W631	2444871.50	1981 Sep 24 0001:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W633	2444873.05	1981 Sep 25 1307:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W634	2444876.05	1981 Sep 28 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1981-W635	2444876.08	1981 Sep 28 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-W636	2444876.12	1981 Sep 28 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1981-W637	2444876.29	1981 Sep 28 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W638	2444876.33	1981 Sep 28 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1981-W639	2444877.08	1981 Sep 29 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1981-W640	2444877.54	1981 Sep 30 0051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1981-Y350	2444878.07	1981 Sep 30 1344:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	83	-	-
1981-W643	2444878.08	1981 Sep 30 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W644	2444878.15	1981 Sep 30 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1981-W645	2444878.42	1981 Sep 30 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-Y354	2444879.13	1981 Oct 1 1504:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W646	2444879.16	1981 Oct 1 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1981-W647	2444879.33	1981 Oct 1 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W648	2444879.39	1981 Oct 1 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W650	2444880.06	1981 Oct 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1981-W651	2444880.06	1981 Oct 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W652	2444880.12	1981 Oct 2 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1981-W653	2444880.36	1981 Oct 2 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1981-W654	2444881.73	1981 Oct 4 0535:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W655	2444881.89	1981 Oct 4 0922:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W656	2444882.90	1981 Oct 5 0941:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W657	2444883.10	1981 Oct 5 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1981-W659	2444883.19	1981 Oct 5 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1981-W660	2444883.35	1981 Oct 5 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W661	2444884.04	1981 Oct 6 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W662	2444884.38	1981 Oct 6 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W665	2444885.31	1981 Oct 7 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1981-W666	2444885.33	1981 Oct 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W667	2444887.07	1981 Oct 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W668	2444887.15	1981 Oct 9 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1981-W669	2444887.33	1981 Oct 9 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W670	2444890.04	1981 Oct 12 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W671	2444891.07	1981 Oct 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1981-W672	2444891.14	1981 Oct 13 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1981-W673	2444891.15	1981 Oct 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W674	2444891.40	1981 Oct 13 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1981-W675	2444891.90	1981 Oct 14 0935:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W676	2444892.01	1981 Oct 14 1214:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-Y363	2444892.10	1981 Oct 14 1429:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W677	2444892.45	1981 Oct 14 2244:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1981-W678	2444892.48	1981 Oct 14 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-W679	2444894.06	1981 Oct 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-Y367	2444894.35	1981 Oct 16 2026:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W680	2444894.37	1981 Oct 16 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W681	2444897.22	1981 Oct 19 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1981-W682	2444898.09	1981 Oct 20 1415:00	Rocketsonde	-	-	-	-	-	-	CC	LC43	-	-	59	-	-
1981-W683	2444898.28	1981 Oct 20 1841:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1981-W685	2444899.05	1981 Oct 21 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1981-W686	2444899.12	1981 Oct 21 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1981-W687	2444899.12	1981 Oct 21 1500:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	60	-	-
1981-W688	2444899.15	1981 Oct 21 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1981-Y374	2444899.30	1981 Oct 21 1912:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1981-W689	2444900.21	1981 Oct 22 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1981-W690	2444901.04	1981 Oct 23 1256:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W691	2444901.10	1981 Oct 23 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1981-Y375	2444901.24	1981 Oct 23 1745:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1981-W692	2444904.27	1981 Oct 26 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W693	2444904.41	1981 Oct 26 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1981-W694	2444905.11	1981 Oct 27 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1981-W698	2444905.92	1981 Oct 28 1004:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W699	2444906.09	1981 Oct 28 1410:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	62	-	-
1981-Y381	2444906.25	1981 Oct 28 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1981-W700	2444906.26	1981 Oct 28 1818:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W701	2444906.27	1981 Oct 28 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1981-A27	2444906.38	1981 Oct 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	43	-	-
1981-W702	2444906.48	1981 Oct 28 2326:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-W703	2444908.06	1981 Oct 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W704	2444908.11	1981 Oct 30 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1981-W705	2444908.22	1981 Oct 30 1712:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W706	2444908.39	1981 Oct 30 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W707	2444911.26	1981 Nov 2 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W708	2444911.34	1981 Nov 2 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W709	2444911.43	1981 Nov 2 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1981-W710	2444912.04	1981 Nov 3 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W711	2444913.07	1981 Nov 4 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W712	2444913.10	1981 Nov 4 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1981-W713	2444913.19	1981 Nov 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-W714	2444913.44	1981 Nov 4 2238:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1981-W715	2444913.89	1981 Nov 5 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W717	2444915.08	1981 Nov 6 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W718	2444915.18	1981 Nov 6 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-Y389	2444915.38	1981 Nov 6 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1981-W719	2444915.40	1981 Nov 6 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W720	2444918.04	1981 Nov 9 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1981-W721	2444918.08	1981 Nov 9 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W722	2444919.26	1981 Nov 10 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-A28	2444920.40	1981 Nov 11 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1981-Y397	2444921.08	1981 Nov 12 1351:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1981-W725	2444921.10	1981 Nov 12 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W726	2444921.19	1981 Nov 12 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1981-Y398	2444921.26	1981 Nov 12 1810:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1981-W728	2444921.27	1981 Nov 12 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W729	2444921.27	1981 Nov 12 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1981-Y399	2444921.29	1981 Nov 12 1855:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1981-W730	2444921.30	1981 Nov 12 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1981-W731	2444921.33	1981 Nov 12 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1981-Y400	2444922.10	1981 Nov 13 1425:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1981-W732	2444922.18	1981 Nov 13 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W733	2444922.27	1981 Nov 13 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1981-Y401	2444922.30	1981 Nov 13 1915:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W734	2444922.35	1981 Nov 13 2026:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-Y402	2444922.39	1981 Nov 13 2117:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1981-W735	2444922.40	1981 Nov 13 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W736	2444923.17	1981 Nov 14 1602:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1981-W737	2444923.28	1981 Nov 14 1844:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-Y403	2444923.35	1981 Nov 14 2020:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1981-Y404	2444923.35	1981 Nov 14 2030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W738	2444923.35	1981 Nov 14 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1981-W739	2444923.36	1981 Nov 14 2043:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W740	2444923.37	1981 Nov 14 2048:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1981-Y405	2444923.37	1981 Nov 14 2049:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1981-W741	2444923.38	1981 Nov 14 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1981-W742	2444923.40	1981 Nov 14 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1981-W743	2444923.40	1981 Nov 14 2137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1981-W744	2444923.41	1981 Nov 14 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-W745	2444923.42	1981 Nov 14 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1981-Y406	2444923.43	1981 Nov 14 2221:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1981-W746	2444923.47	1981 Nov 14 2312:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1981-W747	2444925.18	1981 Nov 16 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1981-W748	2444925.38	1981 Nov 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1981-W749	2444926.19	1981 Nov 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W751	2444926.89	1981 Nov 18 0927:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W752	2444927.09	1981 Nov 18 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W753	2444927.14	1981 Nov 18 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1981-W754	2444927.29	1981 Nov 18 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	54	-	-
1981-W755	2444927.44	1981 Nov 18 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	58	-	-
1981-W757	2444929.04	1981 Nov 20 1256:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1981-W758	2444929.11	1981 Nov 20 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1981-W759	2444929.19	1981 Nov 20 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W760	2444929.38	1981 Nov 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1981-W761	2444932.06	1981 Nov 23 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-A30	2444932.10	1981 Nov 23 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1981-W762	2444932.11	1981 Nov 23 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1981-W763	2444932.19	1981 Nov 23 1633:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1981-W764	2444932.34	1981 Nov 23 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1981-Y414	2444932.37	1981 Nov 23 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1981-W765	2444932.39	1981 Nov 23 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1981-W768	2444934.06	1981 Nov 25 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W769	2444934.11	1981 Nov 25 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-A31	2444934.21	1981 Nov 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1981-Y418	2444934.23	1981 Nov 25 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1981-W770	2444934.25	1981 Nov 25 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1981-W771	2444934.58	1981 Nov 26 0154:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1981-W772	2444936.19	1981 Nov 27 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1981-W773	2444939.11	1981 Nov 30 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W774	2444939.19	1981 Nov 30 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1981-W775	2444939.36	1981 Nov 30 2037:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1981-W776	2444939.38	1981 Nov 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1981-W777	2444940.04	1981 Dec 1 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W778	2444941.06	1981 Dec 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-Y423	2444941.08	1981 Dec 2 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W779	2444941.27	1981 Dec 2 1829:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-W780	2444941.38	1981 Dec 2 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1981-W781	2444941.45	1981 Dec 2 2243:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	59	-	-
1981-W783	2444942.27	1981 Dec 3 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	64	-	-
1981-W784	2444942.30	1981 Dec 3 1918:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1981-W786	2444943.19	1981 Dec 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-W787	2444943.28	1981 Dec 4 1836:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	52	-	-
1981-Y425	2444943.38	1981 Dec 4 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1981-W788	2444943.40	1981 Dec 4 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W789	2444943.40	1981 Dec 4 2138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W790	2444946.04	1981 Dec 7 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W791	2444946.11	1981 Dec 7 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1981-W792	2444946.19	1981 Dec 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1981-W793	2444947.19	1981 Dec 8 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-A32	2444947.22	1981 Dec 8 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1981-W796	2444948.25	1981 Dec 9 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1981-W797	2444948.28	1981 Dec 9 1848:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	64	-	-
1981-W798	2444948.30	1981 Dec 9 1915:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1981-W799	2444948.89	1981 Dec 10 0921:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W800	2444949.09	1981 Dec 10 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1981-W802	2444950.21	1981 Dec 11 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1981-Y433	2444950.38	1981 Dec 11 2111:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1981-W803	2444950.40	1981 Dec 11 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1981-W804	2444953.08	1981 Dec 14 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1981-W805	2444953.16	1981 Dec 14 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1981-W806	2444953.38	1981 Dec 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1981-W807	2444954.19	1981 Dec 15 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1981-Y436	2444955.11	1981 Dec 16 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1981-W810	2444955.14	1981 Dec 16 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W811	2444955.36	1981 Dec 16 2043:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1981-Y437	2444955.38	1981 Dec 16 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1981-W812	2444955.39	1981 Dec 16 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1981-W813	2444955.44	1981 Dec 16 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1981-W814	2444956.22	1981 Dec 17 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1981-W815	2444956.36	1981 Dec 17 2043:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-A34	2444957.11	1981 Dec 18 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	46	-	-
1981-A35	2444957.42	1981 Dec 18 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1981-W816	2444960.11	1981 Dec 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1981-W817	2444960.16	1981 Dec 21 1553:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W818	2444960.19	1981 Dec 21 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1981-W819	2444960.42	1981 Dec 21 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	59	-	-
1981-W820	2444961.23	1981 Dec 22 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1981-Y442	2444962.10	1981 Dec 23 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1981-W822	2444962.15	1981 Dec 23 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W823	2444962.45	1981 Dec 23 2252:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1981-W824	2444963.15	1981 Dec 24 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1981-W825	2444968.04	1981 Dec 29 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1981-W826	2444969.44	1981 Dec 30 2237:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1981-Y449	2444970.11	1981 Dec 31 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	86	-	-
1981-W827	2444970.16	1981 Dec 31 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W02	2444974.04	1982 Jan 4 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1982-W03	2444974.30	1982 Jan 4 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W04	2444974.42	1982 Jan 4 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W05	2444974.89	1982 Jan 5 0919:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1982-Y07	2444976.31	1982 Jan 6 1930:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1982-W08	2444976.38	1982 Jan 6 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-Y08	2444976.42	1982 Jan 6 2202:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W09	2444976.44	1982 Jan 6 2235:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W10	2444976.47	1982 Jan 6 2320:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-W13	2444978.12	1982 Jan 8 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1982-W14	2444981.04	1982 Jan 11 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1982-W15	2444981.11	1982 Jan 11 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1982-W16	2444981.31	1982 Jan 11 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W17	2444981.38	1982 Jan 11 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W18	2444981.38	1982 Jan 11 2107:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	70	-	-
1982-W19	2444982.21	1982 Jan 12 1656:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1982-W22	2444982.90	1982 Jan 13 0933:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1982-Y11	2444983.10	1982 Jan 13 1426:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	82	-	-
1982-W23	2444983.19	1982 Jan 13 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1982-Y12	2444983.26	1982 Jan 13 1810:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W24	2444983.33	1982 Jan 13 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1982-W25	2444983.36	1982 Jan 13 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W26	2444983.38	1982 Jan 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1982-W27	2444983.38	1982 Jan 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-W28	2444983.44	1982 Jan 13 2237:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-Y16	2444985.06	1982 Jan 15 1330:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1982-Y17	2444987.15	1982 Jan 17 1534:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1982-W33	2444987.19	1982 Jan 17 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1982-W35	2444988.10	1982 Jan 18 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1982-W36	2444988.15	1982 Jan 18 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1982-W37	2444988.29	1982 Jan 18 1853:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1982-W38	2444988.38	1982 Jan 18 2102:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1982-W39	2444989.14	1982 Jan 19 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1982-W44	2444990.19	1982 Jan 20 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1982-W45	2444990.33	1982 Jan 20 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1982-W46	2444990.49	1982 Jan 20 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W48	2444991.39	1982 Jan 21 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1982-W50	2444991.90	1982 Jan 22 0929:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1982-W51	2444992.11	1982 Jan 22 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1982-W60	2444995.31	1982 Jan 25 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1982-W61	2444995.39	1982 Jan 25 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-W62	2444996.12	1982 Jan 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1982-W63	2444996.16	1982 Jan 26 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1982-Y28	2444997.11	1982 Jan 27 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1982-W68	2444997.15	1982 Jan 27 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W69	2444997.19	1982 Jan 27 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1982-W70	2444997.47	1982 Jan 27 2322:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-W71	2444998.24	1982 Jan 28 1746:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W74	2444999.06	1982 Jan 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	57	-	-
1982-Y31	2444999.25	1982 Jan 29 1758:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W75	2444999.27	1982 Jan 29 1827:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-W76	2444999.36	1982 Jan 29 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-W77	2444999.42	1982 Jan 29 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-W78	2445000.28	1982 Jan 30 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1982-W79	2445000.31	1982 Jan 30 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1982-W83	2445002.04	1982 Feb 1 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W84	2445002.34	1982 Feb 1 2003:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1982-W85	2445002.38	1982 Feb 1 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-Y32	2445003.31	1982 Feb 2 1920:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W87	2445003.34	1982 Feb 2 2003:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1982-W90	2445004.16	1982 Feb 3 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-A02	2445004.19	1982 Feb 3 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1982-W91	2445004.27	1982 Feb 3 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1982-W92	2445004.30	1982 Feb 3 1904:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1982-W93	2445004.38	1982 Feb 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-Y37	2445004.39	1982 Feb 3 2123:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1982-W94	2445004.41	1982 Feb 3 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1982-W95	2445004.45	1982 Feb 3 2241:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1982-W96	2445005.09	1982 Feb 4 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1982-W97	2445005.19	1982 Feb 4 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1982-W98	2445005.30	1982 Feb 4 1913:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W99	2445006.14	1982 Feb 5 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W100	2445006.22	1982 Feb 5 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1982-A03	2445006.40	1982 Feb 5 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1982-W101	2445008.89	1982 Feb 8 0927:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1982-W102	2445009.35	1982 Feb 8 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1982-W104	2445011.06	1982 Feb 10 1325:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1982-W105	2445011.11	1982 Feb 10 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1982-W106	2445011.35	1982 Feb 10 2029:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-W107	2445011.45	1982 Feb 10 2243:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1982-W108	2445012.37	1982 Feb 11 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1982-W110	2445013.07	1982 Feb 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1982-W111	2445013.10	1982 Feb 12 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1982-W112	2445013.38	1982 Feb 12 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1982-W113	2445015.90	1982 Feb 15 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1982-W116	2445016.42	1982 Feb 15 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W117	2445017.12	1982 Feb 16 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1982-W118	2445017.35	1982 Feb 16 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-W119	2445017.36	1982 Feb 16 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W120	2445017.38	1982 Feb 16 2107:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W123	2445017.89	1982 Feb 17 0919:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W125	2445018.38	1982 Feb 17 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-W126	2445018.44	1982 Feb 17 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-W127	2445019.04	1982 Feb 18 1300:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W128	2445019.27	1982 Feb 18 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1982-W130	2445020.08	1982 Feb 19 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1982-W131	2445020.13	1982 Feb 19 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1982-W132	2445020.25	1982 Feb 19 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W133	2445020.30	1982 Feb 19 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1982-W137	2445023.11	1982 Feb 22 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	53	-	-
1982-W138	2445023.38	1982 Feb 22 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W139	2445024.06	1982 Feb 23 1319:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1982-W142	2445025.18	1982 Feb 24 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1982-Y58	2445025.27	1982 Feb 24 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W143	2445025.45	1982 Feb 24 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-W144	2445025.90	1982 Feb 25 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1982-W145	2445026.21	1982 Feb 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1982-W148	2445026.38	1982 Feb 25 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-A05	2445029.30	1982 Feb 28 1918:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	47	-	-
1982-W154	2445030.33	1982 Mar 1 2001:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1982-W155	2445030.35	1982 Mar 1 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-W156	2445032.38	1982 Mar 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W157	2445033.19	1982 Mar 4 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1982-W159	2445034.18	1982 Mar 5 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1982-W160	2445034.29	1982 Mar 5 1902:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1982-W161	2445034.39	1982 Mar 5 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1982-W166	2445037.30	1982 Mar 8 1908:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1982-W167	2445038.21	1982 Mar 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1982-W169	2445038.37	1982 Mar 9 2048:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1982-Y77	2445039.18	1982 Mar 10 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W170	2445039.20	1982 Mar 10 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-W172	2445039.42	1982 Mar 10 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W180	2445044.37	1982 Mar 15 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1982-W181	2445044.60	1982 Mar 16 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1982-W183	2445046.27	1982 Mar 17 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1982-W185	2445046.38	1982 Mar 17 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-Y94	2445051.18	1982 Mar 22 1615:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	80	-	-
1982-W191	2445051.20	1982 Mar 22 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-W192	2445051.25	1982 Mar 22 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1982-Y95	2445051.28	1982 Mar 22 1842:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	96	-	-
1982-W193	2445051.30	1982 Mar 22 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W195	2445051.34	1982 Mar 22 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-Y97	2445052.21	1982 Mar 23 1701:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1982-W196	2445052.23	1982 Mar 23 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y98	2445052.30	1982 Mar 23 1904:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1982-W198	2445052.32	1982 Mar 23 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1982-W199	2445052.35	1982 Mar 23 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1982-W202	2445053.21	1982 Mar 24 1658:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	79	-	-
1982-W203	2445053.23	1982 Mar 24 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W204	2445053.29	1982 Mar 24 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-Y104	2445053.30	1982 Mar 24 1904:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	91	-	-
1982-W206	2445053.33	1982 Mar 24 2002:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-Y105	2445054.20	1982 Mar 25 1651:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W207	2445054.22	1982 Mar 25 1717:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-Y107	2445054.30	1982 Mar 25 1904:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W208	2445054.32	1982 Mar 25 1935:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-Y109	2445055.21	1982 Mar 26 1707:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	92	-	-
1982-W209	2445055.23	1982 Mar 26 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1982-Y110	2445055.30	1982 Mar 26 1918:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W210	2445055.35	1982 Mar 26 2027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1982-W211	2445056.21	1982 Mar 27 1657:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	78	-	-
1982-W212	2445056.24	1982 Mar 27 1751:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y113	2445056.30	1982 Mar 27 1904:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-W213	2445056.31	1982 Mar 27 1925:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-Y115	2445057.21	1982 Mar 28 1657:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W214	2445057.23	1982 Mar 28 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-W215	2445057.34	1982 Mar 28 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-W216	2445058.01	1982 Mar 29 1210:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1982-W217	2445058.08	1982 Mar 29 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1982-W220	2445058.14	1982 Mar 29 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1982-Y120	2445058.32	1982 Mar 29 1937:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	91	-	-
1982-W221	2445058.34	1982 Mar 29 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W222	2445058.34	1982 Mar 29 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1982-W223	2445058.92	1982 Mar 30 1006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1982-Y122	2445059.06	1982 Mar 30 1330:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1982-Y123	2445059.07	1982 Mar 30 1347:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W224	2445059.09	1982 Mar 30 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1982-Y124	2445059.12	1982 Mar 30 1459:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1982-W226	2445059.14	1982 Mar 30 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1982-Y125	2445059.16	1982 Mar 30 1545:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1982-W227	2445059.17	1982 Mar 30 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W228	2445059.17	1982 Mar 30 1611:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y126	2445059.20	1982 Mar 30 1654:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	91	-	-
1982-W229	2445059.22	1982 Mar 30 1719:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W231	2445060.36	1982 Mar 31 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W232	2445060.42	1982 Mar 31 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W233	2445062.42	1982 Apr 2 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-Y131	2445065.33	1982 Apr 5 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1982-W234	2445065.35	1982 Apr 5 2029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-W235	2445066.42	1982 Apr 6 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1982-W238	2445067.17	1982 Apr 7 1610:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1982-W239	2445067.38	1982 Apr 7 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W241	2445069.17	1982 Apr 9 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W244	2445074.18	1982 Apr 14 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1982-Y141	2445074.27	1982 Apr 14 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W245	2445074.31	1982 Apr 14 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1982-W246	2445074.44	1982 Apr 14 2238:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W247	2445075.39	1982 Apr 15 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-W248	2445075.60	1982 Apr 16 0221:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	56	-	-
1982-Y144	2445079.37	1982 Apr 19 2054:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-W250	2445079.38	1982 Apr 19 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W251	2445079.39	1982 Apr 19 2115:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-W252	2445080.12	1982 Apr 20 1457:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1982-W257	2445080.23	1982 Apr 20 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1982-Y149	2445081.25	1982 Apr 21 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W260	2445081.26	1982 Apr 21 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1982-W261	2445081.27	1982 Apr 21 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-A09	2445081.38	1982 Apr 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-Y150	2445082.33	1982 Apr 22 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1982-W262	2445082.37	1982 Apr 22 2047:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-W263	2445082.61	1982 Apr 23 0243:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W265	2445083.38	1982 Apr 23 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W266	2445086.33	1982 Apr 26 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-Y155	2445088.21	1982 Apr 28 1655:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	96	-	-
1982-W267	2445088.23	1982 Apr 28 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1982-Y157	2445088.25	1982 Apr 28 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W268	2445088.27	1982 Apr 28 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1982-W269	2445088.34	1982 Apr 28 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-W270	2445089.22	1982 Apr 29 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1982-W272	2445090.37	1982 Apr 30 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W273	2445090.38	1982 Apr 30 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-W276	2445093.33	1982 May 3 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-A10	2445095.14	1982 May 5 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1982-Y164	2445095.24	1982 May 5 1745:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1982-W278	2445095.33	1982 May 5 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1982-W279	2445095.44	1982 May 5 2238:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1982-W281	2445097.33	1982 May 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-W283	2445100.38	1982 May 10 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-W284	2445100.60	1982 May 11 0226:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1982-A11	2445102.25	1982 May 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	43	-	-
1982-Y170	2445102.29	1982 May 12 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W287	2445102.31	1982 May 12 1925:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-W288	2445103.34	1982 May 13 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W290	2445104.33	1982 May 14 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-W292	2445107.33	1982 May 17 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-W293	2445108.12	1982 May 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W294	2445108.15	1982 May 18 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1982-Y172	2445108.23	1982 May 18 1726:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1982-W295	2445108.25	1982 May 18 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1982-Y175	2445109.15	1982 May 19 1530:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W296	2445109.18	1982 May 19 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1982-W298	2445111.35	1982 May 21 2031:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W301	2445115.40	1982 May 25 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1982-W304	2445116.21	1982 May 26 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	69	-	-
1982-W305	2445116.25	1982 May 26 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-Y181	2445116.37	1982 May 26 2057:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1982-W306	2445116.39	1982 May 26 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W307	2445116.46	1982 May 26 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	57	-	-
1982-W308	2445117.11	1982 May 27 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1982-W309	2445117.39	1982 May 27 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W310	2445118.19	1982 May 28 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-W311	2445118.38	1982 May 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1982-A13	2445121.38	1982 May 31 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1982-W314	2445123.13	1982 Jun 2 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1982-Y188	2445123.21	1982 Jun 2 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W315	2445123.47	1982 Jun 2 2310:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1982-W316	2445124.38	1982 Jun 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1982-Y192	2445125.29	1982 Jun 4 1855:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1982-W317	2445125.31	1982 Jun 4 1920:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-W318	2445128.36	1982 Jun 7 2037:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-W319	2445128.39	1982 Jun 7 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1982-W321	2445129.38	1982 Jun 8 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-Y198	2445130.29	1982 Jun 9 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W323	2445130.38	1982 Jun 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1982-W324	2445130.46	1982 Jun 9 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-W325	2445135.38	1982 Jun 14 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-A14	2445137.15	1982 Jun 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1982-W326	2445137.21	1982 Jun 16 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W327	2445138.43	1982 Jun 17 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W328	2445139.40	1982 Jun 18 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-W329	2445142.38	1982 Jun 21 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W330	2445143.15	1982 Jun 22 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1982-W332	2445144.39	1982 Jun 23 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-W333	2445144.45	1982 Jun 23 2243:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W334	2445145.39	1982 Jun 24 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W335	2445148.10	1982 Jun 27 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y212	2445148.16	1982 Jun 27 1552:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W336	2445148.21	1982 Jun 27 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W337	2445149.15	1982 Jun 28 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1982-Y213	2445149.93	1982 Jun 29 1014:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1982-Y215	2445150.08	1982 Jun 29 1349:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1982-Y216	2445150.10	1982 Jun 29 1425:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	83	-	-
1982-W338	2445150.12	1982 Jun 29 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-Y218	2445150.16	1982 Jun 29 1548:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1982-Y219	2445150.18	1982 Jun 29 1612:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1982-W339	2445150.18	1982 Jun 29 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1982-Y224	2445151.23	1982 Jun 30 1735:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W340	2445151.44	1982 Jun 30 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W341	2445151.45	1982 Jun 30 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1982-W342	2445152.08	1982 Jul 1 1351:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1982-Y228	2445152.16	1982 Jul 1 1548:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W343	2445152.20	1982 Jul 1 1641:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	70	-	-
1982-Y232	2445154.08	1982 Jul 3 1353:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1982-Y233	2445154.11	1982 Jul 3 1443:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1982-Y234	2445154.13	1982 Jul 3 1511:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1982-Y235	2445154.16	1982 Jul 3 1548:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1982-W344	2445154.18	1982 Jul 3 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	70	-	-
1982-W345	2445154.19	1982 Jul 3 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-W346	2445154.93	1982 Jul 4 1014:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-Y239	2445154.96	1982 Jul 4 1109:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-Y240	2445155.05	1982 Jul 4 1312:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W348	2445155.07	1982 Jul 4 1342:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1982-Y241	2445155.07	1982 Jul 4 1347:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W349	2445155.09	1982 Jul 4 1409:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-Y242	2445155.09	1982 Jul 4 1412:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W350	2445155.10	1982 Jul 4 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-Y243	2445155.12	1982 Jul 4 1459:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W351	2445155.13	1982 Jul 4 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1982-Y244	2445155.14	1982 Jul 4 1523:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-Y245	2445155.16	1982 Jul 4 1548:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-W352	2445155.18	1982 Jul 4 1613:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1982-W353	2445155.19	1982 Jul 4 1627:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W354	2445155.22	1982 Jul 4 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-Y251	2445158.21	1982 Jul 7 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W356	2445158.23	1982 Jul 7 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-W357	2445158.38	1982 Jul 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W358	2445158.44	1982 Jul 7 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1982-Y255	2445160.12	1982 Jul 9 1458:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W359	2445160.39	1982 Jul 9 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1982-W360	2445160.41	1982 Jul 9 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1982-Y260	2445163.35	1982 Jul 12 2030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1982-A15	2445164.38	1982 Jul 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1982-W361	2445165.41	1982 Jul 14 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W362	2445165.44	1982 Jul 14 2238:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1982-W363	2445166.38	1982 Jul 15 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W364	2445167.35	1982 Jul 16 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-Y270	2445167.39	1982 Jul 16 2122:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W365	2445167.40	1982 Jul 16 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1982-W366	2445167.42	1982 Jul 16 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y271	2445170.15	1982 Jul 19 1532:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W367	2445170.18	1982 Jul 19 1620:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1982-Y272	2445170.41	1982 Jul 19 2144:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1982-W368	2445170.42	1982 Jul 19 2209:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W369	2445170.44	1982 Jul 19 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1982-W370	2445171.36	1982 Jul 20 2036:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-Y275	2445172.24	1982 Jul 21 1745:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W372	2445172.40	1982 Jul 21 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-W373	2445172.46	1982 Jul 21 2258:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-Y277	2445177.37	1982 Jul 26 2052:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	81	-	-
1982-W374	2445177.39	1982 Jul 26 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W375	2445179.23	1982 Jul 28 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1982-W376	2445179.44	1982 Jul 28 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-W377	2445180.38	1982 Jul 29 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1982-Y286	2445186.21	1982 Aug 4 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-Y287	2445187.37	1982 Aug 5 2057:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W379	2445187.40	1982 Aug 5 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W380	2445188.36	1982 Aug 6 2032:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-Y289	2445191.29	1982 Aug 9 1853:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W381	2445191.31	1982 Aug 9 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y290	2445191.39	1982 Aug 9 2124:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-W382	2445191.41	1982 Aug 9 2148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1982-Y295	2445193.21	1982 Aug 11 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W383	2445193.23	1982 Aug 11 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1982-Y301	2445200.21	1982 Aug 18 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W385	2445200.23	1982 Aug 18 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1982-W386	2445200.29	1982 Aug 18 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1982-W387	2445200.45	1982 Aug 18 2244:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1982-W388	2445201.46	1982 Aug 19 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1982-Y303	2445202.15	1982 Aug 20 1533:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W389	2445202.17	1982 Aug 20 1607:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1982-A18	2445205.60	1982 Aug 24 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1982-W390	2445206.27	1982 Aug 24 1827:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	55	-	-
1982-Y308	2445207.31	1982 Aug 25 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-Y309	2445207.33	1982 Aug 25 1952:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-W391	2445207.38	1982 Aug 25 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-Y310	2445207.44	1982 Aug 25 2231:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1982-W392	2445209.23	1982 Aug 27 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-W393	2445209.37	1982 Aug 27 2052:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-W394	2445209.42	1982 Aug 27 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-W395	2445212.41	1982 Aug 30 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1982-W397	2445214.14	1982 Sep 1 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-W398	2445214.22	1982 Sep 1 1713:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W399	2445214.47	1982 Sep 1 2310:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-Y318	2445220.37	1982 Sep 7 2053:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	96	-	-
1982-W402	2445220.39	1982 Sep 7 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-Y323	2445221.23	1982 Sep 8 1732:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	82	-	-
1982-Y325	2445222.21	1982 Sep 9 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1982-W404	2445222.23	1982 Sep 9 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1982-A19	2445222.38	1982 Sep 9 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1982-A20	2445228.45	1982 Sep 15 2244:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1982-W407	2445228.50	1982 Sep 16 0006:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1982-W409	2445229.24	1982 Sep 16 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W410	2445229.30	1982 Sep 16 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-A21	2445230.46	1982 Sep 17 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1982-W411	2445233.60	1982 Sep 21 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-Y331	2445234.40	1982 Sep 21 2142:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1982-W412	2445234.42	1982 Sep 21 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1982-Y335	2445235.21	1982 Sep 22 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W413	2445235.50	1982 Sep 23 0004:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-W414	2445237.06	1982 Sep 24 1321:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1982-W415	2445240.10	1982 Sep 27 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1982-W416	2445240.33	1982 Sep 27 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1982-W417	2445240.41	1982 Sep 27 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1982-Y340	2445242.21	1982 Sep 29 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-A22	2445242.35	1982 Sep 29 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W420	2445242.45	1982 Sep 29 2241:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1982-W421	2445244.10	1982 Oct 1 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1982-W422	2445244.60	1982 Oct 2 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W423	2445247.40	1982 Oct 4 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1982-W424	2445247.65	1982 Oct 5 0330:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-Y342	2445248.21	1982 Oct 5 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-W425	2445248.23	1982 Oct 5 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1982-W426	2445249.21	1982 Oct 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1982-A23	2445249.42	1982 Oct 6 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W428	2445250.95	1982 Oct 8 1054:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1982-A24	2445251.38	1982 Oct 8 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1982-Y349	2445255.30	1982 Oct 12 1915:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1982-Y353	2445256.21	1982 Oct 13 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W429	2445256.21	1982 Oct 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1982-W430	2445256.23	1982 Oct 13 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1982-A25	2445256.35	1982 Oct 13 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	44	-	-
1982-W431	2445258.39	1982 Oct 15 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-Y354	2445261.33	1982 Oct 18 1958:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-A26	2445261.38	1982 Oct 18 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-A27	2445263.16	1982 Oct 20 1553:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1982-W432	2445263.21	1982 Oct 20 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	68	-	-
1982-W433	2445263.24	1982 Oct 20 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1982-A28	2445263.34	1982 Oct 20 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W434	2445263.41	1982 Oct 20 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-W436	2445264.52	1982 Oct 22 0034:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-A29	2445268.33	1982 Oct 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1982-W439	2445269.64	1982 Oct 27 0326:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1982-Y362	2445270.21	1982 Oct 27 1701:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W440	2445270.23	1982 Oct 27 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1982-W441	2445270.46	1982 Oct 27 2304:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-A30	2445272.42	1982 Oct 29 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1982-W443	2445275.33	1982 Nov 1 1955:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	64	-	-
1982-W444	2445275.35	1982 Nov 1 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1982-A31	2445277.67	1982 Nov 4 0359:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1982-W447	2445278.16	1982 Nov 4 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	57	-	-
1982-A32	2445283.24	1982 Nov 9 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1982-W452	2445284.38	1982 Nov 10 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W453	2445284.44	1982 Nov 10 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1982-Y369	2445285.03	1982 Nov 11 1245:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1982-W454	2445285.07	1982 Nov 11 1337:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-Y370	2445285.10	1982 Nov 11 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	91	-	-
1982-W455	2445285.12	1982 Nov 11 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1982-A33	2445286.38	1982 Nov 12 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	40	-	-
1982-W457	2445286.38	1982 Nov 12 2112:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-Y371	2445287.03	1982 Nov 13 1245:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-Y372	2445287.07	1982 Nov 13 1336:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W458	2445287.09	1982 Nov 13 1406:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-Y373	2445287.11	1982 Nov 13 1443:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1982-W459	2445287.15	1982 Nov 13 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1982-Y374	2445289.06	1982 Nov 15 1326:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1982-Y375	2445289.09	1982 Nov 15 1404:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1982-W461	2445289.10	1982 Nov 15 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1982-W462	2445289.12	1982 Nov 15 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1982-W464	2445289.87	1982 Nov 16 0855:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1982-Y380	2445289.96	1982 Nov 16 1109:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-Y381	2445289.98	1982 Nov 16 1133:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1982-Y382	2445290.00	1982 Nov 16 1154:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W466	2445290.00	1982 Nov 16 1204:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1982-Y383	2445290.01	1982 Nov 16 1211:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1982-W467	2445290.02	1982 Nov 16 1224:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1982-W468	2445290.02	1982 Nov 16 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1982-Y385	2445290.07	1982 Nov 16 1333:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1982-W469	2445290.08	1982 Nov 16 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1982-Y386	2445290.09	1982 Nov 16 1408:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1982-Y387	2445290.10	1982 Nov 16 1431:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1982-W470	2445290.12	1982 Nov 16 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1982-W471	2445290.36	1982 Nov 16 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-W472	2445291.48	1982 Nov 17 2327:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	57	-	-
1982-W475	2445293.17	1982 Nov 19 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1982-W479	2445298.21	1982 Nov 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1982-W480	2445298.57	1982 Nov 25 0141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1982-W482	2445300.65	1982 Nov 27 0330:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1982-W484	2445303.38	1982 Nov 29 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1982-W486	2445305.16	1982 Dec 1 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1982-W487	2445305.44	1982 Dec 1 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1982-W493	2445311.36	1982 Dec 7 2041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1982-Y414	2445312.25	1982 Dec 8 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1982-W497	2445312.25	1982 Dec 8 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1982-W498	2445312.35	1982 Dec 8 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1982-A35	2445314.62	1982 Dec 11 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W499	2445317.38	1982 Dec 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1982-A36	2445317.38	1982 Dec 13 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1982-W502	2445319.27	1982 Dec 15 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	52	-	-
1982-W503	2445319.38	1982 Dec 15 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1982-W504	2445320.35	1982 Dec 16 2029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1982-W507	2445324.36	1982 Dec 20 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-A37	2445324.63	1982 Dec 21 0304:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W508	2445325.37	1982 Dec 21 2052:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1982-A39	2445326.44	1982 Dec 22 2240:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	44	-	-
1982-A40	2445333.38	1982 Dec 29 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1982-W513	2445334.53	1982 Dec 31 0044:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1982-W514	2445335.40	1982 Dec 31 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-A01	2445338.62	1983 Jan 4 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W02	2445340.27	1983 Jan 5 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1983-Y06	2445340.38	1983 Jan 5 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1983-W04	2445340.38	1983 Jan 5 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1983-W05	2445340.39	1983 Jan 5 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1983-W06	2445340.52	1983 Jan 6 0035:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	59	-	-
1983-A02	2445342.38	1983 Jan 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-W08	2445347.25	1983 Jan 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	53	-	-
1983-W11	2445349.64	1983 Jan 15 0314:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-W12	2445352.33	1983 Jan 17 1948:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1983-W13	2445352.60	1983 Jan 18 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1983-W15	2445354.30	1983 Jan 19 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1983-W16	2445354.47	1983 Jan 19 2323:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-W18	2445356.19	1983 Jan 21 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1983-W19	2445359.62	1983 Jan 25 0257:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1983-W20	2445360.27	1983 Jan 25 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	77	-	-
1983-W23	2445361.19	1983 Jan 26 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1983-W24	2445361.21	1983 Jan 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1983-A03	2445363.38	1983 Jan 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	44	-	-
1983-A04	2445368.25	1983 Feb 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1983-W25	2445368.49	1983 Feb 2 2338:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-A05	2445370.42	1983 Feb 4 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1983-Y31	2445372.88	1983 Feb 7 0910:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1983-W29	2445375.19	1983 Feb 9 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-W30	2445375.45	1983 Feb 9 2246:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-W31	2445376.28	1983 Feb 10 1837:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1983-Y38	2445376.29	1983 Feb 10 1903:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W34	2445380.39	1983 Feb 14 2115:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1983-Y43	2445382.31	1983 Feb 16 1926:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1983-W38	2445382.34	1983 Feb 16 2003:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1983-A06	2445382.38	1983 Feb 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W39	2445383.54	1983 Feb 18 0056:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	65	-	-
1983-W41	2445384.29	1983 Feb 18 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-A07	2445387.38	1983 Feb 21 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-W44	2445388.52	1983 Feb 23 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W47	2445388.85	1983 Feb 23 0822:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1983-W49	2445389.19	1983 Feb 23 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1983-W50	2445391.62	1983 Feb 26 0248:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W51	2445392.12	1983 Feb 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-W53	2445394.38	1983 Feb 28 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-W54	2445394.54	1983 Mar 1 0054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-W57	2445396.19	1983 Mar 2 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1983-W58	2445396.35	1983 Mar 2 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1983-W59	2445397.38	1983 Mar 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1983-A08	2445398.38	1983 Mar 4 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1983-W63	2445401.38	1983 Mar 7 2113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1983-A09	2445401.46	1983 Mar 7 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1983-A10	2445403.40	1983 Mar 9 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1983-Y89	2445404.24	1983 Mar 10 1749:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W68	2445404.26	1983 Mar 10 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1983-W69	2445404.36	1983 Mar 10 2038:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-Y92	2445405.35	1983 Mar 11 2020:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1983-W72	2445405.39	1983 Mar 11 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-W74	2445407.12	1983 Mar 13 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	54	-	-
1983-W77	2445408.39	1983 Mar 14 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1983-W78	2445409.19	1983 Mar 15 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1983-W79	2445409.35	1983 Mar 15 2021:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1983-Y100	2445410.27	1983 Mar 16 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1983-W83	2445410.29	1983 Mar 16 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-A11	2445410.39	1983 Mar 16 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1983-W85	2445412.39	1983 Mar 18 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1983-A12	2445412.65	1983 Mar 19 0330:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1983-W86	2445415.38	1983 Mar 21 2111:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1983-W87	2445416.19	1983 Mar 22 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-W88	2445416.31	1983 Mar 22 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	52	-	-
1983-W92	2445417.27	1983 Mar 23 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1983-W94	2445417.38	1983 Mar 23 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1983-W95	2445417.53	1983 Mar 24 0041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-A13	2445419.38	1983 Mar 25 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	41	-	-
1983-Y123	2445422.27	1983 Mar 28 1824:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W98	2445422.28	1983 Mar 28 1848:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1983-A14	2445422.38	1983 Mar 28 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W99	2445422.52	1983 Mar 29 0029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-W100	2445423.19	1983 Mar 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1983-W101	2445424.31	1983 Mar 30 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	53	-	-
1983-A15	2445424.43	1983 Mar 30 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W103	2445425.36	1983 Mar 31 2041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1983-Y131	2445426.38	1983 Apr 1 2100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1983-A16	2445426.38	1983 Apr 1 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	39	-	-
1983-Y132	2445429.18	1983 Apr 4 1623:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W104	2445429.21	1983 Apr 4 1706:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1983-W105	2445429.27	1983 Apr 4 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1983-Y133	2445429.28	1983 Apr 4 1841:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1983-W109	2445431.25	1983 Apr 6 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	54	-	-
1983-A17	2445431.62	1983 Apr 7 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1983-W110	2445433.22	1983 Apr 8 1715:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	66	-	-
1983-W111	2445433.24	1983 Apr 8 1746:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1983-W112	2445433.29	1983 Apr 8 1851:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1983-Y138	2445434.02	1983 Apr 9 1233:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W113	2445434.04	1983 Apr 9 1302:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-Y141	2445434.14	1983 Apr 9 1517:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-Y142	2445434.15	1983 Apr 9 1537:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1983-W114	2445434.16	1983 Apr 9 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-Y143	2445434.17	1983 Apr 9 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1983-Y144	2445434.18	1983 Apr 9 1623:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W115	2445434.20	1983 Apr 9 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W116	2445434.20	1983 Apr 9 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1983-Y145	2445434.25	1983 Apr 9 1759:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1983-W117	2445434.25	1983 Apr 9 1759:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-W118	2445434.26	1983 Apr 9 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-W119	2445434.28	1983 Apr 9 1848:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-Y146	2445436.38	1983 Apr 11 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1983-W121	2445438.19	1983 Apr 13 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-Y149	2445438.29	1983 Apr 13 1900:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1983-W122	2445438.31	1983 Apr 13 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-W124	2445443.12	1983 Apr 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	52	-	-
1983-A18	2445443.42	1983 Apr 18 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1983-W126	2445445.19	1983 Apr 20 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-Y153	2445445.27	1983 Apr 20 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-Y156	2445445.39	1983 Apr 20 2124:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1983-W127	2445445.41	1983 Apr 20 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W128	2445445.42	1983 Apr 20 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1983-W129	2445449.07	1983 Apr 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-Y158	2445450.27	1983 Apr 25 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1983-Y159	2445450.33	1983 Apr 25 1955:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	83	-	-
1983-W130	2445450.36	1983 Apr 25 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-Y164	2445452.19	1983 Apr 27 1635:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	95	-	-
1983-A20	2445452.38	1983 Apr 27 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W132	2445453.14	1983 Apr 28 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1983-W135	2445459.17	1983 May 4 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1983-W137	2445459.37	1983 May 4 2052:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1983-W138	2445460.01	1983 May 5 1217:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1983-A21	2445460.07	1983 May 5 1335:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1983-Y169	2445460.22	1983 May 5 1713:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1983-W139	2445460.24	1983 May 5 1747:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y170	2445460.40	1983 May 5 2132:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1983-W140	2445460.41	1983 May 5 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W142	2445461.20	1983 May 6 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	54	-	-
1983-W143	2445464.35	1983 May 9 2017:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1983-W144	2445465.01	1983 May 10 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1983-W149	2445466.10	1983 May 11 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1983-W151	2445466.35	1983 May 11 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1983-W152	2445467.52	1983 May 13 0025:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-W154	2445468.35	1983 May 13 2022:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1983-W155	2445468.35	1983 May 13 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1983-W157	2445471.38	1983 May 16 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1983-W161	2445473.10	1983 May 18 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1983-W163	2445475.25	1983 May 20 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-A23	2445479.35	1983 May 24 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W168	2445480.10	1983 May 25 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1983-W169	2445480.37	1983 May 25 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1983-W170	2445480.38	1983 May 25 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1983-Y176	2445481.20	1983 May 26 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W172	2445481.34	1983 May 26 2013:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W175	2445487.15	1983 Jun 1 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-Y181	2445487.28	1983 Jun 1 1845:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W176	2445487.32	1983 Jun 1 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1983-W178	2445493.39	1983 Jun 7 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1983-Y189	2445494.23	1983 Jun 8 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W180	2445494.26	1983 Jun 8 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	50	-	-
1983-W183	2445495.15	1983 Jun 9 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-W185	2445499.30	1983 Jun 13 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	51	-	-
1983-W188	2445501.15	1983 Jun 15 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1983-Y196	2445502.16	1983 Jun 16 1556:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1983-W189	2445503.09	1983 Jun 17 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-Y197	2445503.13	1983 Jun 17 1506:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W191	2445505.07	1983 Jun 19 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-Y201	2445506.37	1983 Jun 20 2047:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W193	2445507.52	1983 Jun 22 0033:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1983-W194	2445508.15	1983 Jun 22 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1983-Y208	2445508.37	1983 Jun 22 2053:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1983-W195	2445509.83	1983 Jun 24 0752:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1983-W196	2445509.89	1983 Jun 24 0914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1983-Y211	2445510.06	1983 Jun 24 1323:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1983-Y212	2445510.07	1983 Jun 24 1335:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1983-Y213	2445510.08	1983 Jun 24 1356:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-Y214	2445510.09	1983 Jun 24 1408:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1983-Y216	2445510.10	1983 Jun 24 1424:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1983-W197	2445510.10	1983 Jun 24 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1983-W198	2445510.11	1983 Jun 24 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1983-W199	2445510.11	1983 Jun 24 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-W200	2445510.14	1983 Jun 24 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1983-Y217	2445510.18	1983 Jun 24 1617:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1983-W202	2445514.32	1983 Jun 28 1937:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1983-W205	2445515.15	1983 Jun 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1983-Y223	2445516.17	1983 Jun 30 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W206	2445516.19	1983 Jun 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1983-Y227	2445521.22	1983 Jul 5 1715:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W208	2445521.24	1983 Jul 5 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	55	-	-
1983-Y229	2445521.39	1983 Jul 5 2126:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	80	-	-
1983-W209	2445521.41	1983 Jul 5 2154:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1983-W212	2445529.20	1983 Jul 13 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1983-W214	2445531.32	1983 Jul 15 1937:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1983-W216	2445532.07	1983 Jul 16 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1983-W217	2445534.39	1983 Jul 18 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1983-Y237	2445535.35	1983 Jul 19 2026:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W218	2445535.37	1983 Jul 19 2051:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1983-W220	2445541.21	1983 Jul 25 1658:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	76	-	-
1983-W221	2445541.25	1983 Jul 25 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1983-Y244	2445543.23	1983 Jul 27 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W223	2445543.31	1983 Jul 27 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-Y246	2445549.30	1983 Aug 2 1909:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W226	2445549.32	1983 Aug 2 1941:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-W228	2445550.25	1983 Aug 3 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1983-W229	2445551.40	1983 Aug 4 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1983-Y257	2445557.25	1983 Aug 10 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W235	2445558.53	1983 Aug 12 0041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1983-W237	2445559.15	1983 Aug 12 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1983-W238	2445563.21	1983 Aug 16 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-Y260	2445564.18	1983 Aug 17 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	91	-	-
1983-W240	2445569.52	1983 Aug 23 0029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-W242	2445571.17	1983 Aug 24 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1983-Y265	2445576.86	1983 Aug 30 0838:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1983-W246	2445576.95	1983 Aug 30 1044:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1983-W247	2445577.15	1983 Aug 30 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1983-Y269	2445578.83	1983 Sep 1 0801:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-Y270	2445578.85	1983 Sep 1 0822:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W248	2445578.90	1983 Sep 1 0932:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-Y271	2445580.24	1983 Sep 2 1748:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W250	2445580.26	1983 Sep 2 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1983-W251	2445580.66	1983 Sep 3 0345:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y272	2445580.81	1983 Sep 3 0725:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W252	2445580.89	1983 Sep 3 0924:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1983-Y274	2445582.76	1983 Sep 5 0613:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1983-W254	2445582.78	1983 Sep 5 0641:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1983-Y276	2445582.82	1983 Sep 5 0741:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1983-Y277	2445582.83	1983 Sep 5 0802:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1983-W256	2445582.85	1983 Sep 5 0826:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1983-W257	2445582.87	1983 Sep 5 0855:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1983-W258	2445582.89	1983 Sep 5 0914:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W259	2445584.16	1983 Sep 6 1553:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1983-W260	2445584.41	1983 Sep 6 2146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-Y280	2445585.25	1983 Sep 7 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W262	2445585.27	1983 Sep 7 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-W263	2445585.49	1983 Sep 7 2349:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1983-W264	2445590.31	1983 Sep 12 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1983-Y281	2445590.40	1983 Sep 12 2131:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1983-W265	2445590.42	1983 Sep 12 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W267	2445592.15	1983 Sep 14 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1983-W268	2445592.23	1983 Sep 14 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-W269	2445592.48	1983 Sep 14 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1983-W271	2445594.37	1983 Sep 16 2049:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1983-W272	2445596.07	1983 Sep 18 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-W273	2445597.30	1983 Sep 19 1913:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	51	-	-
1983-A30	2445597.99	1983 Sep 20 1145:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	48	-	-
1983-Y286	2445598.38	1983 Sep 20 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1983-W276	2445598.39	1983 Sep 20 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	65	-	-
1983-W278	2445599.12	1983 Sep 21 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-W279	2445599.15	1983 Sep 21 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-W280	2445600.36	1983 Sep 22 2041:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-A31	2445604.35	1983 Sep 26 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-W284	2445606.19	1983 Sep 28 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1983-A32	2445606.39	1983 Sep 28 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1983-W285	2445607.15	1983 Sep 29 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-A33	2445608.35	1983 Sep 30 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1983-A34	2445611.35	1983 Oct 3 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	40	-	-
1983-W287	2445613.15	1983 Oct 5 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1983-W288	2445613.24	1983 Oct 5 1738:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-A35	2445613.35	1983 Oct 5 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-W289	2445613.58	1983 Oct 6 0200:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-A36	2445615.42	1983 Oct 7 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-A37	2445619.36	1983 Oct 11 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1983-W291	2445620.25	1983 Oct 12 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1983-A38	2445621.25	1983 Oct 13 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	49	-	-
1983-A39	2445621.35	1983 Oct 13 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-A40	2445622.35	1983 Oct 14 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1983-W293	2445625.41	1983 Oct 17 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1983-A41	2445625.60	1983 Oct 18 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-W295	2445627.25	1983 Oct 19 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1983-A42	2445627.35	1983 Oct 19 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-Y289	2445628.19	1983 Oct 20 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W296	2445628.23	1983 Oct 20 1733:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1983-W297	2445629.27	1983 Oct 21 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	56	-	-
1983-A43	2445629.38	1983 Oct 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1983-A44	2445632.40	1983 Oct 24 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1983-W298	2445633.35	1983 Oct 25 2027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W300	2445634.23	1983 Oct 26 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1983-W303	2445636.32	1983 Oct 28 1937:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	65	-	-
1983-A45	2445636.36	1983 Oct 28 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1983-A46	2445639.35	1983 Oct 31 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	44	-	-
1983-W305	2445640.38	1983 Nov 1 2112:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1983-Y290	2445641.25	1983 Nov 2 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W307	2445641.29	1983 Nov 2 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1983-A47	2445641.41	1983 Nov 2 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	42	-	-
1983-W308	2445643.19	1983 Nov 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1983-W309	2445646.31	1983 Nov 7 1923:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1983-W310	2445647.21	1983 Nov 8 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1983-W311	2445647.26	1983 Nov 8 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1983-W312	2445648.25	1983 Nov 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1983-W313	2445648.36	1983 Nov 9 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1983-W314	2445648.37	1983 Nov 9 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1983-W318	2445655.18	1983 Nov 16 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1983-W319	2445655.26	1983 Nov 16 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1983-A48	2445655.35	1983 Nov 16 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1983-Y291	2445655.36	1983 Nov 16 2037:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1983-W320	2445656.36	1983 Nov 17 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1983-W321	2445657.14	1983 Nov 18 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1983-Y294	2445660.30	1983 Nov 21 1907:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W322	2445660.31	1983 Nov 21 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1983-W323	2445660.53	1983 Nov 22 0042:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W326	2445662.27	1983 Nov 23 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1983-Y295	2445662.29	1983 Nov 23 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W327	2445662.31	1983 Nov 23 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1983-W328	2445667.17	1983 Nov 28 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-W329	2445667.21	1983 Nov 28 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1983-W331	2445669.15	1983 Nov 30 1537:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1983-W332	2445669.19	1983 Nov 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-W334	2445669.46	1983 Nov 30 2308:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1983-Y296	2445671.14	1983 Dec 2 1522:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W335	2445671.18	1983 Dec 2 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1983-A49	2445671.60	1983 Dec 3 0230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	38	-	-
1983-Y298	2445673.13	1983 Dec 4 1501:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W338	2445673.15	1983 Dec 4 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1983-W341	2445675.16	1983 Dec 6 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1983-W342	2445675.38	1983 Dec 6 2113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1983-W345	2445676.19	1983 Dec 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1983-A50	2445676.35	1983 Dec 7 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	40	-	-
1983-W349	2445676.47	1983 Dec 7 2323:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	60	-	-
1983-Y302	2445676.92	1983 Dec 8 1002:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W350	2445676.95	1983 Dec 8 1044:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1983-A51	2445677.20	1983 Dec 8 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	48	-	-
1983-W351	2445677.21	1983 Dec 8 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1983-Y305	2445677.38	1983 Dec 8 2106:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-Y306	2445677.42	1983 Dec 8 2209:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1983-W353	2445677.43	1983 Dec 8 2218:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1983-W354	2445677.47	1983 Dec 8 2322:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1983-W355	2445677.49	1983 Dec 8 2344:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	72	-	-
1983-W356	2445677.50	1983 Dec 9 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1983-W357	2445677.50	1983 Dec 9 0002:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	79	-	-
1983-W358	2445677.50	1983 Dec 9 0007:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1983-W359	2445677.52	1983 Dec 9 0024:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1983-W360	2445677.52	1983 Dec 9 0024:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1983-Y309	2445682.17	1983 Dec 13 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W363	2445682.19	1983 Dec 13 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1983-Y310	2445683.25	1983 Dec 14 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1983-W365	2445683.55	1983 Dec 15 0117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1983-W368	2445686.16	1983 Dec 17 1556:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	73	-	-
1983-W369	2445686.28	1983 Dec 17 1841:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	74	-	-
1983-Y316	2445688.24	1983 Dec 19 1752:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1983-W370	2445688.26	1983 Dec 19 1817:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1983-W371	2445688.52	1983 Dec 20 0029:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1983-A52	2445690.38	1983 Dec 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	39	-	-
1983-W376	2445690.49	1983 Dec 21 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1983-W377	2445691.17	1983 Dec 22 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	66	-	-
1983-W378	2445691.27	1983 Dec 22 1835:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1983-A53	2445699.35	1983 Dec 30 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	39	-	-
1984-W01	2445703.14	1984 Jan 3 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-Y02	2445704.21	1984 Jan 4 1703:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-A01	2445704.35	1984 Jan 4 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	40	-	-
1984-W04	2445704.42	1984 Jan 4 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1984-W05	2445704.47	1984 Jan 4 2321:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	56	-	-
1984-A02	2445709.35	1984 Jan 9 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	47	-	-
1984-W08	2445709.41	1984 Jan 9 2152:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1984-W10	2445710.10	1984 Jan 10 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	64	-	-
1984-Y08	2445710.32	1984 Jan 10 1945:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1984-W12	2445711.13	1984 Jan 11 1511:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W13	2445711.33	1984 Jan 11 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	64	-	-
1984-A03	2445711.35	1984 Jan 11 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	43	-	-
1984-A04	2445716.35	1984 Jan 16 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	46	-	-
1984-W19	2445716.39	1984 Jan 16 2120:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-W20	2445716.40	1984 Jan 16 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	61	-	-
1984-Y20	2445717.25	1984 Jan 17 1803:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1984-W21	2445717.28	1984 Jan 17 1836:59	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	60	-	-
1984-A05	2445718.03	1984 Jan 18 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	49	-	-
1984-W23	2445718.09	1984 Jan 18 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1984-W24	2445718.14	1984 Jan 18 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1984-A06	2445718.35	1984 Jan 18 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	43	-	-
1984-W27	2445720.35	1984 Jan 20 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W29	2445721.19	1984 Jan 21 1637:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1984-W30	2445721.26	1984 Jan 21 1817:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1984-W31	2445721.33	1984 Jan 21 2002:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	51	-	-
1984-W32	2445723.12	1984 Jan 23 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1984-W33	2445723.35	1984 Jan 23 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W36	2445725.14	1984 Jan 25 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1984-W38	2445726.35	1984 Jan 26 2024:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-W39	2445726.35	1984 Jan 26 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W40	2445727.15	1984 Jan 27 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	70	-	-
1984-W41	2445727.40	1984 Jan 27 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1984-A07	2445730.04	1984 Jan 30 1257:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	44	-	-
1984-Y37	2445730.25	1984 Jan 30 1802:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-A08	2445730.60	1984 Jan 31 0230:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-Y42	2445732.25	1984 Feb 1 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-W44	2445732.35	1984 Feb 1 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W45	2445732.51	1984 Feb 2 0010:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-Y43	2445734.03	1984 Feb 3 1244:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1984-W46	2445734.05	1984 Feb 3 1306:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	76	-	-
1984-W47	2445734.12	1984 Feb 3 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1984-W48	2445734.19	1984 Feb 3 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1984-W49	2445734.39	1984 Feb 3 2118:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1984-Y45	2445736.01	1984 Feb 5 1214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W50	2445736.03	1984 Feb 5 1238:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	76	-	-
1984-W52	2445737.35	1984 Feb 6 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-Y47	2445738.01	1984 Feb 7 1214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W53	2445738.03	1984 Feb 7 1244:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1984-Y49	2445739.29	1984 Feb 8 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-W55	2445739.46	1984 Feb 8 2308:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1984-Y52	2445740.03	1984 Feb 9 1245:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1984-W57	2445740.05	1984 Feb 9 1309:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1984-W60	2445740.41	1984 Feb 9 2144:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	52	-	-
1984-W62	2445741.04	1984 Feb 10 1252:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	65	-	-
1984-W63	2445741.20	1984 Feb 10 1641:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1984-W64	2445741.79	1984 Feb 11 0703:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1984-W65	2445742.02	1984 Feb 11 1222:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1984-W66	2445742.02	1984 Feb 11 1224:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	67	-	-
1984-W67	2445742.02	1984 Feb 11 1224:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1984-Y59	2445742.06	1984 Feb 11 1319:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1984-W69	2445742.10	1984 Feb 11 1425:00	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1984-W70	2445742.20	1984 Feb 11 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W72	2445744.13	1984 Feb 13 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1984-W74	2445744.36	1984 Feb 13 2036:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-A09	2445744.43	1984 Feb 13 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	44	-	-
1984-W76	2445746.48	1984 Feb 15 2335:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	75	-	-
1984-W78	2445747.19	1984 Feb 16 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1984-W79	2445748.36	1984 Feb 17 2035:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W83	2445751.35	1984 Feb 20 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W84	2445752.04	1984 Feb 21 1255:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1984-W86	2445752.38	1984 Feb 21 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1984-Y75	2445753.25	1984 Feb 22 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-W88	2445753.27	1984 Feb 22 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	62	-	-
1984-W89	2445753.50	1984 Feb 23 0002:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	78	-	-
1984-W90	2445754.14	1984 Feb 23 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1984-W91	2445754.35	1984 Feb 23 2020:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-W92	2445755.21	1984 Feb 24 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	70	-	-
1984-W93	2445758.12	1984 Feb 27 1452:00	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	59	-	-
1984-W94	2445758.15	1984 Feb 27 1534:59	Rocketsonde	-	-	Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1984-A10	2445759.39	1984 Feb 28 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W95	2445760.14	1984 Feb 29 1521:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1984-W96	2445760.20	1984 Feb 29 1651:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1984-Y79	2445760.25	1984 Feb 29 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1984-W97	2445760.35	1984 Feb 29 2027:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1984-W98	2445760.35	1984 Feb 29 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W100	2445762.38	1984 Mar 2 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	75	-	-
1984-A11	2445765.35	1984 Mar 5 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-W102	2445768.19	1984 Mar 8 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1984-A12	2445769.04	1984 Mar 9 1251:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	44	-	-
1984-W103	2445772.15	1984 Mar 12 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1984-W104	2445772.40	1984 Mar 12 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1984-A13	2445772.60	1984 Mar 13 0231:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-W106	2445774.04	1984 Mar 14 1251:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1984-W107	2445774.28	1984 Mar 14 1842:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1984-W109	2445775.39	1984 Mar 15 2118:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1984-W110	2445780.35	1984 Mar 20 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W111	2445781.04	1984 Mar 21 1256:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W112	2445781.19	1984 Mar 21 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1984-W113	2445781.26	1984 Mar 21 1821:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W114	2445781.29	1984 Mar 21 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	WS	-	-	-	64	-	-
1984-W115	2445781.35	1984 Mar 21 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1984-W116	2445782.15	1984 Mar 22 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1984-W117	2445783.10	1984 Mar 23 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W118	2445786.03	1984 Mar 26 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W119	2445786.40	1984 Mar 26 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W121	2445788.17	1984 Mar 28 1609:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1984-Y80	2445788.33	1984 Mar 28 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1984-A14	2445788.40	1984 Mar 28 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	44	-	-
1984-W123	2445789.15	1984 Mar 29 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-W124	2445790.15	1984 Mar 30 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W125	2445790.32	1984 Mar 30 1942:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1984-W126	2445793.33	1984 Apr 2 1956:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1984-W127	2445794.33	1984 Apr 3 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-W128	2445795.19	1984 Apr 4 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1984-A15	2445796.35	1984 Apr 5 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	45	-	-
1984-W129	2445797.08	1984 Apr 6 1358:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	60	-	-
1984-W130	2445797.09	1984 Apr 6 1409:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1984-W131	2445797.10	1984 Apr 6 1429:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1984-Y81	2445797.14	1984 Apr 6 1527:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1984-W132	2445797.17	1984 Apr 6 1557:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-Y82	2445797.21	1984 Apr 6 1657:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1984-W133	2445797.23	1984 Apr 6 1727:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W134	2445797.40	1984 Apr 6 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W135	2445799.09	1984 Apr 8 1403:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	72	-	-
1984-W136	2445799.10	1984 Apr 8 1420:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-W137	2445799.10	1984 Apr 8 1431:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1984-W138	2445800.36	1984 Apr 9 2040:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-Y83	2445801.05	1984 Apr 10 1311:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1984-W139	2445801.05	1984 Apr 10 1311:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1984-Y84	2445801.06	1984 Apr 10 1330:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1984-W140	2445801.07	1984 Apr 10 1334:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1984-W141	2445801.09	1984 Apr 10 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1984-Y85	2445803.00	1984 Apr 12 1207:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W143	2445803.00	1984 Apr 12 1207:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1984-W144	2445803.04	1984 Apr 12 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1984-W145	2445803.05	1984 Apr 12 1309:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	62	-	-
1984-W146	2445803.78	1984 Apr 13 0638:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1984-Y86	2445804.03	1984 Apr 13 1240:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1984-W147	2445804.05	1984 Apr 13 1307:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1984-Y87	2445804.05	1984 Apr 13 1313:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1984-Y89	2445804.07	1984 Apr 13 1337:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1984-W148	2445804.07	1984 Apr 13 1347:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1984-W150	2445804.08	1984 Apr 13 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W151	2445804.08	1984 Apr 13 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-W152	2445804.09	1984 Apr 13 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1984-Y90	2445804.09	1984 Apr 13 1410:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	80	-	-
1984-W153	2445804.12	1984 Apr 13 1449:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-W154	2445807.35	1984 Apr 16 2031:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W155	2445809.03	1984 Apr 18 1249:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W156	2445809.27	1984 Apr 18 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1984-W157	2445809.33	1984 Apr 18 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W158	2445811.38	1984 Apr 20 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W159	2445811.38	1984 Apr 20 2107:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1984-W160	2445814.33	1984 Apr 23 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W161	2445815.15	1984 Apr 24 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1984-W163	2445816.07	1984 Apr 25 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W164	2445816.27	1984 Apr 25 1831:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W165	2445816.35	1984 Apr 25 2031:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W167	2445817.27	1984 Apr 26 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1984-W168	2445818.29	1984 Apr 27 1902:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1984-W169	2445818.33	1984 Apr 27 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-A17	2445821.29	1984 Apr 30 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W170	2445822.08	1984 May 1 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	63	-	-
1984-W171	2445822.39	1984 May 1 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1984-W172	2445823.16	1984 May 2 1551:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-W173	2445823.32	1984 May 2 1934:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-A18	2445825.33	1984 May 4 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W174	2445828.39	1984 May 7 2124:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1984-W176	2445829.03	1984 May 8 1249:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-A19	2445829.29	1984 May 8 1900:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W178	2445830.08	1984 May 9 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-A20	2445830.31	1984 May 9 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W179	2445830.90	1984 May 10 0930:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1984-W180	2445832.33	1984 May 11 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-A21	2445835.33	1984 May 14 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-W182	2445837.03	1984 May 16 1244:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-W183	2445837.15	1984 May 16 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1984-W184	2445837.58	1984 May 17 0200:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-A22	2445842.34	1984 May 21 2015:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	37	-	-
1984-W185	2445842.35	1984 May 21 2020:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1984-W187	2445844.33	1984 May 23 1956:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1984-W188	2445846.09	1984 May 25 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1984-W189	2445846.36	1984 May 25 2033:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	60	-	-
1984-A23	2445849.31	1984 May 28 1931:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W191	2445851.07	1984 May 30 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1984-W192	2445851.09	1984 May 30 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1984-W193	2445851.35	1984 May 30 2025:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	73	-	-
1984-W194	2445853.09	1984 Jun 1 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1984-W195	2445858.11	1984 Jun 6 1433:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1984-W196	2445858.26	1984 Jun 6 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W198	2445859.61	1984 Jun 8 0235:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-A24	2445860.31	1984 Jun 8 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	39	-	-
1984-A25	2445864.31	1984 Jun 12 1924:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	43	-	-
1984-W199	2445864.36	1984 Jun 12 2044:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1984-W201	2445865.15	1984 Jun 13 1535:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W202	2445867.10	1984 Jun 15 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1984-W203	2445867.25	1984 Jun 15 1804:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	66	-	-
1984-W204	2445867.26	1984 Jun 15 1820:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	70	-	-
1984-W205	2445870.10	1984 Jun 18 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1984-W208	2445872.10	1984 Jun 20 1425:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1984-W209	2445872.16	1984 Jun 20 1549:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W210	2445874.11	1984 Jun 22 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-Y91	2445877.03	1984 Jun 25 1243:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	92	-	-
1984-W211	2445877.05	1984 Jun 25 1307:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1984-W212	2445877.31	1984 Jun 25 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-Y92	2445878.03	1984 Jun 26 1243:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W213	2445878.05	1984 Jun 26 1314:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1984-W214	2445879.10	1984 Jun 27 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1984-A26	2445879.33	1984 Jun 27 1954:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-W215	2445879.47	1984 Jun 27 2320:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	59	-	-
1984-W216	2445880.16	1984 Jun 28 1552:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	64	-	-
1984-W217	2445881.32	1984 Jun 29 1934:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W218	2445884.10	1984 Jul 2 1429:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1984-W219	2445884.22	1984 Jul 2 1715:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1984-W220	2445885.31	1984 Jul 3 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W222	2445887.10	1984 Jul 5 1425:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W223	2445887.34	1984 Jul 5 2003:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W224	2445888.03	1984 Jul 6 1243:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W225	2445888.10	1984 Jul 6 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W226	2445888.35	1984 Jul 6 2025:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	63	-	-
1984-W227	2445891.39	1984 Jul 9 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	58	-	-
1984-W228	2445893.03	1984 Jul 11 1248:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	50	-	-
1984-W229	2445893.06	1984 Jul 11 1325:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1984-W230	2445893.45	1984 Jul 11 2247:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	73	-	-
1984-W231	2445898.03	1984 Jul 16 1249:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1984-W232	2445898.09	1984 Jul 16 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1984-W234	2445900.10	1984 Jul 18 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1984-W235	2445902.09	1984 Jul 20 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1984-W236	2445902.31	1984 Jul 20 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-A27	2445905.31	1984 Jul 23 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	46	-	-
1984-W237	2445905.39	1984 Jul 23 2126:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-W238	2445906.37	1984 Jul 24 2055:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	73	-	-
1984-W239	2445907.04	1984 Jul 25 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	51	-	-
1984-W240	2445907.10	1984 Jul 25 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-W241	2445909.32	1984 Jul 27 1944:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	53	-	-
1984-W243	2445914.10	1984 Aug 1 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1984-W244	2445914.15	1984 Aug 1 1533:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	53	-	-
1984-W245	2445914.24	1984 Aug 1 1742:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1984-W246	2445916.28	1984 Aug 3 1849:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	59	-	-
1984-W247	2445920.04	1984 Aug 7 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1984-W248	2445920.14	1984 Aug 7 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	56	-	-
1984-A29	2445921.16	1984 Aug 8 1548:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	42	-	-
1984-Y98	2445921.38	1984 Aug 8 2103:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1984-W249	2445921.40	1984 Aug 8 2133:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	53	-	-
1984-W250	2445921.48	1984 Aug 8 2332:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1984-W251	2445926.11	1984 Aug 13 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	64	-	-
1984-W252	2445926.52	1984 Aug 14 0024:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-W253	2445927.88	1984 Aug 15 0904:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1984-W254	2445928.03	1984 Aug 15 1247:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1984-W256	2445928.46	1984 Aug 15 2304:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-W257	2445930.10	1984 Aug 17 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1984-W258	2445930.35	1984 Aug 17 2020:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	58	-	-
1984-W259	2445934.15	1984 Aug 21 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	54	-	-
1984-W260	2445934.35	1984 Aug 21 2031:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1984-W261	2445935.20	1984 Aug 22 1651:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1984-W263	2445936.10	1984 Aug 23 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1984-W264	2445937.22	1984 Aug 24 1715:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W265	2445937.29	1984 Aug 24 1901:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1984-A30	2445937.31	1984 Aug 24 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W266	2445939.11	1984 Aug 26 1435:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1984-W267	2445940.11	1984 Aug 27 1435:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1984-W269	2445942.32	1984 Aug 29 1944:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1984-W270	2445942.48	1984 Aug 29 2326:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	75	-	-
1984-Y100	2445943.03	1984 Aug 30 1243:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W271	2445943.07	1984 Aug 30 1336:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	54	-	-
1984-W272	2445943.09	1984 Aug 30 1411:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1984-W273	2445943.10	1984 Aug 30 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	62	-	-
1984-W274	2445943.12	1984 Aug 30 1454:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1984-W275	2445943.32	1984 Aug 30 1940:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W276	2445943.52	1984 Aug 31 0029:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	59	-	-
1984-W277	2445944.12	1984 Aug 31 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	54	-	-
1984-W278	2445944.20	1984 Aug 31 1653:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1984-Y101	2445945.06	1984 Sep 1 1330:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1984-Y102	2445945.07	1984 Sep 1 1338:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1984-Y103	2445945.09	1984 Sep 1 1415:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W279	2445945.10	1984 Sep 1 1424:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1984-W280	2445945.10	1984 Sep 1 1431:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1984-W281	2445945.11	1984 Sep 1 1438:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1984-Y104	2445947.06	1984 Sep 3 1330:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1984-Y105	2445947.07	1984 Sep 3 1334:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-Y106	2445947.07	1984 Sep 3 1338:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1984-W282	2445947.09	1984 Sep 3 1406:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1984-W283	2445947.11	1984 Sep 3 1433:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-Y107	2445948.83	1984 Sep 5 0756:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1984-W284	2445948.85	1984 Sep 5 0826:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1984-Y108	2445949.06	1984 Sep 5 1324:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1984-W285	2445949.06	1984 Sep 5 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1984-Y110	2445949.07	1984 Sep 5 1336:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1984-W286	2445949.07	1984 Sep 5 1337:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	73	-	-
1984-Y111	2445949.07	1984 Sep 5 1338:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1984-W287	2445949.07	1984 Sep 5 1338:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	56	-	-
1984-W289	2445949.09	1984 Sep 5 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1984-W290	2445949.10	1984 Sep 5 1422:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1984-Y112	2445949.11	1984 Sep 5 1434:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W291	2445949.11	1984 Sep 5 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	59	-	-
1984-W292	2445949.13	1984 Sep 5 1508:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1984-A31	2445951.41	1984 Sep 7 2145:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1984-W294	2445954.03	1984 Sep 10 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	52	-	-
1984-W295	2445954.17	1984 Sep 10 1610:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1984-W296	2445954.31	1984 Sep 10 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1984-W298	2445955.53	1984 Sep 12 0036:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-W299	2445956.07	1984 Sep 12 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	51	-	-
1984-W300	2445957.32	1984 Sep 13 1944:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W301	2445958.40	1984 Sep 14 2143:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1984-W302	2445962.03	1984 Sep 18 1246:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	55	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W305	2445963.07	1984 Sep 19 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	53	-	-
1984-W306	2445964.15	1984 Sep 20 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1984-Y113	2445964.37	1984 Sep 20 2054:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1984-W307	2445964.41	1984 Sep 20 2145:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1984-W308	2445969.31	1984 Sep 25 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W309	2445970.16	1984 Sep 26 1545:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-Y115	2445970.37	1984 Sep 26 2059:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1984-W311	2445970.41	1984 Sep 26 2151:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1984-W312	2445970.48	1984 Sep 26 2335:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-W313	2445971.32	1984 Sep 27 1938:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1984-W314	2445972.52	1984 Sep 29 0035:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1984-W315	2445977.14	1984 Oct 3 1522:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1984-W316	2445977.21	1984 Oct 3 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	66	-	-
1984-Y116	2445978.05	1984 Oct 4 1311:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1984-W317	2445978.07	1984 Oct 4 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1984-Y118	2445978.96	1984 Oct 5 1103:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1984-A32	2445978.96	1984 Oct 5 1103:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	0	-	-
1984-W318	2445978.98	1984 Oct 5 1127:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-Y119	2445979.00	1984 Oct 5 1207:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1984-W319	2445979.01	1984 Oct 5 1215:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-W320	2445979.09	1984 Oct 5 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1984-W321	2445979.31	1984 Oct 5 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W322	2445981.18	1984 Oct 7 1618:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	61	-	-
1984-W323	2445981.18	1984 Oct 7 1618:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1984-W324	2445981.18	1984 Oct 7 1621:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1984-W325	2445983.15	1984 Oct 9 1542:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W326	2445983.18	1984 Oct 9 1621:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-W327	2445983.22	1984 Oct 9 1715:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1984-W328	2445983.33	1984 Oct 9 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1984-W330	2445985.18	1984 Oct 11 1618:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1984-W331	2445985.18	1984 Oct 11 1621:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1984-W332	2445985.18	1984 Oct 11 1621:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1984-W333	2445985.21	1984 Oct 11 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1984-Y120	2445986.93	1984 Oct 13 1025:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1984-W334	2445986.95	1984 Oct 13 1054:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1984-W335	2445987.18	1984 Oct 13 1621:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	66	-	-
1984-Y121	2445987.19	1984 Oct 13 1638:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1984-Y123	2445987.19	1984 Oct 13 1640:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1984-Y124	2445987.20	1984 Oct 13 1652:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1984-W336	2445987.21	1984 Oct 13 1658:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1984-W338	2445987.21	1984 Oct 13 1708:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1984-W339	2445987.22	1984 Oct 13 1711:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W340	2445987.23	1984 Oct 13 1734:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1984-Y125	2445987.25	1984 Oct 13 1807:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1984-W341	2445989.38	1984 Oct 15 2111:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1984-W342	2445991.07	1984 Oct 17 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1984-W343	2445991.08	1984 Oct 17 1349:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1984-W344	2445991.08	1984 Oct 17 1351:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1984-W345	2445991.20	1984 Oct 17 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1984-W346	2445991.20	1984 Oct 17 1653:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	57	-	-
1984-W348	2445992.00	1984 Oct 18 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1984-W349	2445996.03	1984 Oct 22 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-W352	2445998.07	1984 Oct 24 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1984-W353	2445998.27	1984 Oct 24 1833:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	59	-	-
1984-W354	2445998.41	1984 Oct 24 2156:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	61	-	-
1984-W356	2446000.16	1984 Oct 26 1551:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1984-W357	2446000.17	1984 Oct 26 1604:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1984-A33	2446000.35	1984 Oct 26 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	47	-	-
1984-W358	2446000.52	1984 Oct 27 0029:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-A34	2446003.35	1984 Oct 29 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	47	-	-
1984-W359	2446003.39	1984 Oct 29 2127:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1984-W361	2446005.07	1984 Oct 31 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W362	2446005.08	1984 Oct 31 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W363	2446005.11	1984 Oct 31 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	51	-	-
1984-W364	2446005.19	1984 Oct 31 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1984-W365	2446005.29	1984 Oct 31 1857:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1984-W366	2446005.46	1984 Oct 31 2309:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-A35	2446007.39	1984 Nov 2 2120:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W367	2446010.35	1984 Nov 5 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1984-W368	2446011.16	1984 Nov 6 1549:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	61	-	-
1984-W370	2446012.38	1984 Nov 7 2108:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1984-Y126	2446013.01	1984 Nov 8 1214:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1984-W371	2446013.03	1984 Nov 8 1238:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	58	-	-
1984-W372	2446013.03	1984 Nov 8 1240:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	53	-	-
1984-Y127	2446013.05	1984 Nov 8 1314:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1984-W373	2446013.06	1984 Nov 8 1327:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1984-W374	2446013.08	1984 Nov 8 1355:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W375	2446014.33	1984 Nov 9 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W376	2446015.00	1984 Nov 10 1154:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1984-W377	2446015.01	1984 Nov 10 1219:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1984-W378	2446015.01	1984 Nov 10 1221:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	61	-	-
1984-W379	2446015.04	1984 Nov 10 1254:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W380	2446017.00	1984 Nov 12 1154:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W381	2446017.02	1984 Nov 12 1225:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1984-W383	2446018.20	1984 Nov 13 1648:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1984-W384	2446018.32	1984 Nov 13 1942:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-W385	2446018.41	1984 Nov 13 2149:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	58	-	-
1984-W387	2446019.00	1984 Nov 14 1154:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1984-W388	2446019.00	1984 Nov 14 1157:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1984-W389	2446019.01	1984 Nov 14 1214:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1984-W390	2446019.04	1984 Nov 14 1251:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1984-W391	2446019.04	1984 Nov 14 1254:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1984-W392	2446019.36	1984 Nov 14 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1984-Y128	2446020.75	1984 Nov 16 0559:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1984-W393	2446020.77	1984 Nov 16 0633:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1984-W394	2446020.99	1984 Nov 16 1145:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1984-W395	2446021.00	1984 Nov 16 1157:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1984-A36	2446021.00	1984 Nov 16 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	47	-	-
1984-Y130	2446021.01	1984 Nov 16 1212:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1984-Y131	2446021.01	1984 Nov 16 1214:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1984-W396	2446021.01	1984 Nov 16 1215:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1984-W397	2446021.01	1984 Nov 16 1217:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1984-W398	2446021.02	1984 Nov 16 1222:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1984-W399	2446021.02	1984 Nov 16 1235:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	59	-	-
1984-W400	2446021.03	1984 Nov 16 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1984-W401	2446021.06	1984 Nov 16 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	52	-	-
1984-W402	2446024.13	1984 Nov 19 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1984-W403	2446025.04	1984 Nov 20 1256:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1984-W404	2446025.29	1984 Nov 20 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1984-W405	2446025.33	1984 Nov 20 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1984-W407	2446026.07	1984 Nov 21 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	67	-	-
1984-W408	2446026.20	1984 Nov 21 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1984-W409	2446026.46	1984 Nov 21 2300:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-W410	2446031.33	1984 Nov 26 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	59	-	-
1984-W411	2446033.11	1984 Nov 28 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1984-W412	2446033.39	1984 Nov 28 2121:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	60	-	-
1984-W413	2446033.45	1984 Nov 28 2247:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1984-W414	2446034.15	1984 Nov 29 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	62	-	-
1984-W415	2446034.19	1984 Nov 29 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1984-W416	2446035.25	1984 Nov 30 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1984-Y132	2446038.07	1984 Dec 3 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1984-W417	2446039.31	1984 Dec 4 1927:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1984-Y133	2446039.36	1984 Dec 4 2045:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	83	-	-
1984-W418	2446039.38	1984 Dec 4 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1984-W419	2446039.43	1984 Dec 4 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	70	-	-
1984-W421	2446040.04	1984 Dec 5 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	68	-	-
1984-W422	2446040.12	1984 Dec 5 1454:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W423	2446040.42	1984 Dec 5 2202:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1984-W424	2446045.13	1984 Dec 10 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1984-W425	2446045.20	1984 Dec 10 1641:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1984-W426	2446045.35	1984 Dec 10 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1984-W427	2446046.10	1984 Dec 11 1417:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1984-W429	2446047.14	1984 Dec 12 1524:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1984-W430	2446047.19	1984 Dec 12 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1984-W431	2446047.49	1984 Dec 12 2348:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-Y134	2446049.07	1984 Dec 14 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1984-W432	2446049.40	1984 Dec 14 2133:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1984-W433	2446049.40	1984 Dec 14 2143:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1984-Y135	2446050.41	1984 Dec 15 2149:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1984-W434	2446050.49	1984 Dec 15 2345:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1984-W435	2446052.29	1984 Dec 17 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1984-W436	2446053.03	1984 Dec 18 1249:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W437	2446053.36	1984 Dec 18 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1984-A38	2446053.38	1984 Dec 18 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1984-W439	2446054.05	1984 Dec 19 1306:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	54	-	-
1984-W440	2446054.10	1984 Dec 19 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1984-W441	2446054.40	1984 Dec 19 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1984-W442	2446054.45	1984 Dec 19 2254:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1984-A39	2446056.35	1984 Dec 21 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	43	-	-
1984-W443	2446059.04	1984 Dec 24 1256:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1984-W444	2446059.04	1984 Dec 24 1257:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1984-W445	2446059.35	1984 Dec 24 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1984-W446	2446066.35	1984 Dec 31 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1985-W01	2446068.06	1985 Jan 2 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1985-W02	2446068.07	1985 Jan 2 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	57	-	-
1985-W03	2446068.23	1985 Jan 2 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W04	2446069.15	1985 Jan 3 1531:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1985-W05	2446074.06	1985 Jan 8 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	66	-	-
1985-W07	2446075.19	1985 Jan 9 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1985-W08	2446076.10	1985 Jan 10 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1985-W09	2446076.16	1985 Jan 10 1556:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1985-W10	2446076.35	1985 Jan 10 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1985-W11	2446081.03	1985 Jan 15 1243:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1985-W12	2446081.15	1985 Jan 15 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1985-W14	2446082.25	1985 Jan 16 1758:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	76	-	-
1985-W15	2446082.35	1985 Jan 16 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1985-W16	2446082.49	1985 Jan 16 2349:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	63	-	-
1985-W17	2446083.07	1985 Jan 17 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1985-W18	2446084.20	1985 Jan 18 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1985-W19	2446084.39	1985 Jan 18 2124:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1985-W20	2446087.03	1985 Jan 21 1248:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1985-W21	2446087.35	1985 Jan 21 2021:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W22	2446087.35	1985 Jan 21 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1985-W24	2446089.19	1985 Jan 23 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1985-Y01	2446090.08	1985 Jan 24 1357:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1985-W25	2446090.08	1985 Jan 24 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1985-W26	2446090.10	1985 Jan 24 1426:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1985-Y02	2446090.37	1985 Jan 24 2049:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1985-A01	2446090.39	1985 Jan 24 2120:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	47	-	-
1985-W27	2446092.08	1985 Jan 26 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1985-W28	2446092.08	1985 Jan 26 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1985-W29	2446092.09	1985 Jan 26 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1985-Y03	2446093.17	1985 Jan 27 1607:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	84	-	-
1985-W30	2446093.19	1985 Jan 27 1631:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1985-W31	2446093.35	1985 Jan 27 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1985-Y04	2446093.39	1985 Jan 27 2122:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	84	-	-
1985-W32	2446093.39	1985 Jan 27 2123:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1985-W34	2446093.40	1985 Jan 27 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	52	-	-
1985-W35	2446093.41	1985 Jan 27 2151:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1985-W36	2446093.43	1985 Jan 27 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1985-W37	2446093.44	1985 Jan 27 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	56	-	-
1985-Y05	2446093.47	1985 Jan 27 2315:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1985-W38	2446095.33	1985 Jan 29 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1985-W39	2446096.04	1985 Jan 30 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1985-W40	2446096.31	1985 Jan 30 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1985-W41	2446102.10	1985 Feb 5 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1985-W42	2446102.52	1985 Feb 6 0025:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	78	-	-
1985-W45	2446104.03	1985 Feb 7 1247:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1985-W46	2446104.07	1985 Feb 7 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	62	-	-
1985-W47	2446104.78	1985 Feb 8 0640:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	75	-	-
1985-W48	2446104.82	1985 Feb 8 0744:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1985-W49	2446104.87	1985 Feb 8 0849:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	58	-	-
1985-W50	2446105.36	1985 Feb 8 2033:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1985-W51	2446105.39	1985 Feb 8 2125:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1985-W52	2446105.41	1985 Feb 8 2151:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1985-A02	2446108.38	1985 Feb 11 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1985-W53	2446108.52	1985 Feb 12 0032:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1985-W55	2446110.04	1985 Feb 13 1254:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1985-W56	2446110.08	1985 Feb 13 1354:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	72	-	-
1985-W57	2446110.36	1985 Feb 13 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W58	2446111.34	1985 Feb 14 2014:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1985-W59	2446111.37	1985 Feb 14 2054:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1985-W60	2446112.35	1985 Feb 15 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1985-W61	2446115.03	1985 Feb 18 1242:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1985-W62	2446115.35	1985 Feb 18 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1985-W63	2446116.05	1985 Feb 19 1314:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1985-W64	2446116.38	1985 Feb 19 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	75	-	-
1985-W65	2446117.42	1985 Feb 20 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1985-W67	2446119.12	1985 Feb 22 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1985-W68	2446122.36	1985 Feb 25 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1985-W70	2446124.07	1985 Feb 27 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1985-W71	2446124.15	1985 Feb 27 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1985-W72	2446124.19	1985 Feb 27 1633:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W73	2446125.38	1985 Feb 28 2102:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1985-W74	2446132.38	1985 Mar 7 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1985-W75	2446133.35	1985 Mar 8 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1985-W76	2446136.21	1985 Mar 11 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1985-W77	2446136.27	1985 Mar 11 1827:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1985-W78	2446137.35	1985 Mar 12 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1985-W79	2446138.15	1985 Mar 13 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1985-W81	2446140.36	1985 Mar 15 2040:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1985-W82	2446144.33	1985 Mar 19 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1985-W83	2446145.15	1985 Mar 20 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1985-W84	2446145.19	1985 Mar 20 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1985-W85	2446146.36	1985 Mar 21 2044:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1985-W86	2446151.19	1985 Mar 26 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W87	2446151.36	1985 Mar 26 2040:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1985-W88	2446151.38	1985 Mar 26 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1985-W90	2446153.15	1985 Mar 28 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1985-W91	2446153.53	1985 Mar 29 0045:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1985-W95	2446159.15	1985 Apr 3 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1985-W96	2446159.19	1985 Apr 3 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1985-W97	2446164.36	1985 Apr 8 2040:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1985-W98	2446165.23	1985 Apr 9 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1985-W99	2446166.06	1985 Apr 10 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1985-W100	2446166.15	1985 Apr 10 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-Y08	2446168.08	1985 Apr 12 1358:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1985-Y09	2446168.11	1985 Apr 12 1443:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1985-W101	2446168.12	1985 Apr 12 1454:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1985-W102	2446168.14	1985 Apr 12 1520:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1985-W103	2446168.17	1985 Apr 12 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1985-W104	2446170.08	1985 Apr 14 1358:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1985-W105	2446170.09	1985 Apr 14 1408:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1985-W106	2446170.09	1985 Apr 14 1413:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1985-W107	2446172.00	1985 Apr 16 1207:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	77	-	-
1985-W108	2446172.01	1985 Apr 16 1217:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1985-W109	2446172.09	1985 Apr 16 1413:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1985-W111	2446173.38	1985 Apr 17 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W112	2446174.01	1985 Apr 18 1212:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1985-W113	2446174.01	1985 Apr 18 1219:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	77	-	-
1985-W114	2446174.03	1985 Apr 18 1246:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	60	-	-
1985-Y10	2446174.76	1985 Apr 19 0620:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1985-W115	2446174.78	1985 Apr 19 0645:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1985-Y12	2446175.07	1985 Apr 19 1347:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1985-W116	2446175.08	1985 Apr 19 1353:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1985-W117	2446175.08	1985 Apr 19 1353:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W118	2446175.08	1985 Apr 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	55	-	-
1985-W119	2446175.08	1985 Apr 19 1401:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1985-W120	2446175.09	1985 Apr 19 1411:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	76	-	-
1985-W121	2446175.09	1985 Apr 19 1412:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1985-Y13	2446175.11	1985 Apr 19 1437:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1985-W122	2446175.12	1985 Apr 19 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	50	-	-
1985-W123	2446175.17	1985 Apr 19 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1985-W124	2446178.35	1985 Apr 22 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1985-W126	2446180.19	1985 Apr 24 1640:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1985-W128	2446183.16	1985 Apr 27 1554:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1985-Y14	2446185.17	1985 Apr 29 1602:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1985-W129	2446185.20	1985 Apr 29 1652:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1985-Y15	2446185.21	1985 Apr 29 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1985-W130	2446185.23	1985 Apr 29 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1985-W131	2446185.24	1985 Apr 29 1738:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	58	-	-
1985-W132	2446185.31	1985 Apr 29 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1985-W133	2446185.34	1985 Apr 29 2003:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1985-W134	2446187.17	1985 May 1 1606:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1985-W135	2446187.17	1985 May 1 1607:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1985-W136	2446189.16	1985 May 3 1556:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1985-W137	2446189.17	1985 May 3 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1985-W138	2446189.17	1985 May 3 1606:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1985-W139	2446189.19	1985 May 3 1629:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	61	-	-
1985-W140	2446189.31	1985 May 3 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1985-W141	2446191.17	1985 May 5 1557:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1985-W142	2446191.17	1985 May 5 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1985-W143	2446191.17	1985 May 5 1606:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1985-Y16	2446191.92	1985 May 6 1006:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1985-W144	2446191.95	1985 May 6 1042:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1985-W145	2446192.12	1985 May 6 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1985-Y17	2446192.17	1985 May 6 1610:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1985-W146	2446192.17	1985 May 6 1610:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1985-Y18	2446192.18	1985 May 6 1613:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1985-W147	2446192.19	1985 May 6 1634:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1985-W148	2446192.22	1985 May 6 1711:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	75	-	-
1985-W149	2446192.22	1985 May 6 1720:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1985-W150	2446192.24	1985 May 6 1745:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1985-W152	2446195.21	1985 May 9 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W154	2446201.07	1985 May 15 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1985-W155	2446201.16	1985 May 15 1554:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1985-W156	2446201.31	1985 May 15 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	53	-	-
1985-W157	2446202.21	1985 May 16 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1985-W158	2446202.36	1985 May 16 2032:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1985-W159	2446204.64	1985 May 19 0324:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1985-W160	2446205.90	1985 May 20 0930:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1985-W161	2446206.03	1985 May 20 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	55	-	-
1985-Y19	2446208.16	1985 May 22 1545:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1985-W164	2446208.22	1985 May 22 1719:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1985-W165	2446208.31	1985 May 22 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1985-W166	2446210.52	1985 May 25 0030:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1985-W167	2446214.16	1985 May 28 1544:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1985-W168	2446215.11	1985 May 29 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1985-W169	2446215.21	1985 May 29 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1985-W171	2446216.14	1985 May 30 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	64	-	-
1985-Y20	2446220.52	1985 Jun 4 0033:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	80	-	-
1985-W172	2446221.10	1985 Jun 4 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1985-W173	2446222.30	1985 Jun 5 1914:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1985-W174	2446222.31	1985 Jun 5 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1985-W175	2446226.93	1985 Jun 10 1025:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1985-W176	2446226.94	1985 Jun 10 1030:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	71	-	-
1985-W177	2446228.21	1985 Jun 11 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1985-W179	2446229.33	1985 Jun 12 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1985-Y21	2446233.98	1985 Jun 17 1133:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1985-W180	2446234.02	1985 Jun 17 1233:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	66	-	-
1985-W181	2446234.03	1985 Jun 17 1242:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1985-W182	2446234.03	1985 Jun 17 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1985-W183	2446234.06	1985 Jun 17 1332:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-W184	2446234.10	1985 Jun 17 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1985-W185	2446234.77	1985 Jun 18 0630:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1985-W186	2446235.62	1985 Jun 19 0300:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	77	-	-
1985-W187	2446236.21	1985 Jun 19 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1985-W189	2446236.31	1985 Jun 19 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1985-W191	2446241.05	1985 Jun 24 1307:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	68	-	-
1985-W192	2446241.05	1985 Jun 24 1308:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1985-Y22	2446241.05	1985 Jun 24 1311:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1985-W193	2446241.07	1985 Jun 24 1335:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1985-W194	2446241.09	1985 Jun 24 1406:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	58	-	-
1985-W195	2446241.09	1985 Jun 24 1412:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W196	2446241.11	1985 Jun 24 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1985-W197	2446241.17	1985 Jun 24 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1985-W199	2446250.15	1985 Jul 3 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1985-W202	2446255.19	1985 Jul 8 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1985-W203	2446256.62	1985 Jul 10 0258:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1985-W205	2446257.34	1985 Jul 10 2003:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1985-W207	2446258.10	1985 Jul 11 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-Y32	2446259.35	1985 Jul 12 2030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1985-W208	2446263.31	1985 Jul 16 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1985-W210	2446271.31	1985 Jul 24 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1985-W211	2446273.10	1985 Jul 26 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1985-W212	2446276.39	1985 Jul 29 2123:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	53	-	-
1985-W213	2446276.39	1985 Jul 29 2123:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1985-W214	2446276.41	1985 Jul 29 2152:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1985-Y45	2446276.46	1985 Jul 29 2300:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1985-W215	2446276.50	1985 Jul 30 0000:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1985-W217	2446277.21	1985 Jul 30 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1985-Y68	2446312.05	1985 Sep 3 1314:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1985-Y69	2446312.06	1985 Sep 3 1321:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1985-W228	2446312.06	1985 Sep 3 1324:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1985-W229	2446312.07	1985 Sep 3 1336:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	59	-	-
1985-W230	2446312.08	1985 Sep 3 1354:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	55	-	-
1985-W231	2446312.10	1985 Sep 3 1418:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-W233	2446313.08	1985 Sep 4 1354:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	56	-	-
1985-W235	2446313.31	1985 Sep 4 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1985-W241	2446321.00	1985 Sep 12 1155:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1985-W242	2446322.00	1985 Sep 13 1206:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1985-W243	2446322.21	1985 Sep 13 1706:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1985-W244	2446322.33	1985 Sep 13 1957:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1985-W245	2446322.44	1985 Sep 13 2238:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1985-A06	2446327.31	1985 Sep 18 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	47	-	-
1985-W253	2446332.34	1985 Sep 23 2015:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	58	-	-
1985-W254	2446334.21	1985 Sep 25 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1985-W255	2446334.35	1985 Sep 25 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	57	-	-
1985-W256	2446340.21	1985 Oct 1 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1985-Y89	2446342.18	1985 Oct 3 1615:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1985-W260	2446342.22	1985 Oct 3 1715:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1985-Y91	2446347.63	1985 Oct 9 0300:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	SNI	-	-	-	90	-	-
1985-Y92	2446347.64	1985 Oct 9 0325:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	SNI	-	-	-	90	-	-
1985-Y93	2446347.67	1985 Oct 9 0358:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1985-W261	2446347.69	1985 Oct 9 0435:59	Rocketsonde	-	-	Datasonde	-	-	-	SNI	-	-	-	60	-	-
1985-W262	2446348.21	1985 Oct 9 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1985-W264	2446350.38	1985 Oct 11 2108:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	50	-	-
1985-W267	2446355.21	1985 Oct 16 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1985-A08	2446356.32	1985 Oct 17 1946:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	49	-	-
1985-W271	2446364.38	1985 Oct 25 2111:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1985-W273	2446367.15	1985 Oct 28 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1985-W278	2446369.20	1985 Oct 30 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1985-W279	2446369.21	1985 Oct 30 1701:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1985-W280	2446369.22	1985 Oct 30 1722:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1985-Y106	2446369.25	1985 Oct 30 1800:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	80	-	-
1985-W281	2446369.32	1985 Oct 30 1944:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1985-W283	2446369.67	1985 Oct 31 0359:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1985-W288	2446376.24	1985 Nov 6 1740:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	73	-	-
1985-W289	2446376.24	1985 Nov 6 1740:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	63	-	-
1985-Y111	2446376.24	1985 Nov 6 1744:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1985-W290	2446376.24	1985 Nov 6 1744:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1985-W291	2446376.25	1985 Nov 6 1754:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1985-W292	2446376.26	1985 Nov 6 1810:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1985-W293	2446376.28	1985 Nov 6 1840:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-A11	2446376.38	1985 Nov 6 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	46	-	-
1985-A13	2446385.29	1985 Nov 15 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	47	-	-
1985-W302	2446395.12	1985 Nov 25 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1985-W303	2446396.52	1985 Nov 27 0030:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1985-W304	2446396.57	1985 Nov 27 0137:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1985-W305	2446396.59	1985 Nov 27 0210:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1985-W307	2446397.35	1985 Nov 27 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	50	-	-
1985-W312	2446403.40	1985 Dec 3 2132:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1985-W313	2446403.40	1985 Dec 3 2133:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1985-W314	2446403.40	1985 Dec 3 2133:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	63	-	-
1985-W315	2446403.40	1985 Dec 3 2133:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	59	-	-
1985-W316	2446403.40	1985 Dec 3 2134:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	61	-	-
1985-W317	2446403.41	1985 Dec 3 2155:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1985-W318	2446403.44	1985 Dec 3 2233:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1985-W319	2446403.48	1985 Dec 3 2334:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1985-W320	2446404.29	1985 Dec 4 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	52	-	-
1985-A16	2446404.38	1985 Dec 4 2110:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1985-W323	2446406.15	1985 Dec 6 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-W325	2446409.15	1985 Dec 9 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1985-W331	2446411.38	1985 Dec 11 2110:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1985-W333	2446413.15	1985 Dec 13 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1985-W334	2446416.09	1985 Dec 16 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1985-W335	2446416.15	1985 Dec 16 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	77	-	-
1985-W337	2446416.46	1985 Dec 16 2300:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	53	-	-
1985-W340	2446417.49	1985 Dec 17 2352:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1985-W343	2446418.35	1985 Dec 18 2025:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-W345	2446423.30	1985 Dec 23 1914:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	51	-	-
1986-A01	2446431.92	1986 Jan 1 0959:59	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	44	-	-
1986-W01	2446434.19	1986 Jan 3 1634:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1986-W04	2446437.15	1986 Jan 6 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1986-A02	2446439.38	1986 Jan 8 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	40	-	-
1986-W06	2446440.12	1986 Jan 9 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1986-W07	2446440.13	1986 Jan 9 1511:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	51	-	-
1986-W08	2446443.02	1986 Jan 12 1233:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1986-W09	2446443.03	1986 Jan 12 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	50	-	-
1986-W10	2446443.06	1986 Jan 12 1324:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1986-W11	2446445.47	1986 Jan 14 2310:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	53	-	-
1986-W14	2446449.08	1986 Jan 18 1357:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	61	-	-
1986-W15	2446449.08	1986 Jan 18 1357:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1986-W16	2446449.08	1986 Jan 18 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1986-W18	2446453.07	1986 Jan 22 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1986-A03	2446453.13	1986 Jan 22 1509:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	47	-	-
1986-W19	2446455.17	1986 Jan 24 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1986-W20	2446458.30	1986 Jan 27 1914:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1986-W21	2446459.19	1986 Jan 28 1640:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1986-W22	2446460.30	1986 Jan 29 1904:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	50	-	-
1986-W24	2446466.46	1986 Feb 4 2304:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	52	-	-
1986-W28	2446469.30	1986 Feb 7 1910:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1986-W29	2446469.31	1986 Feb 7 1925:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	53	-	-
1986-W32	2446474.38	1986 Feb 12 2110:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1986-W33	2446474.47	1986 Feb 12 2310:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	52	-	-
1986-W39	2446482.07	1986 Feb 20 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1986-W40	2446482.14	1986 Feb 20 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1986-W41	2446482.60	1986 Feb 21 0220:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1986-W43	2446483.18	1986 Feb 21 1614:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	54	-	-
1986-W45	2446488.30	1986 Feb 26 1904:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	55	-	-
1986-W52	2446495.35	1986 Mar 5 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1986-A04	2446497.40	1986 Mar 7 2143:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	49	-	-
1986-W54	2446497.44	1986 Mar 7 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1986-W55	2446500.56	1986 Mar 11 0130:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1986-W57	2446503.47	1986 Mar 13 2315:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	50	-	-
1986-W60	2446507.83	1986 Mar 18 0758:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1986-W61	2446507.88	1986 Mar 18 0911:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1986-W62	2446507.92	1986 Mar 18 0959:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	55	-	-
1986-A05	2446509.38	1986 Mar 19 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	SHEM	-	-	-	34	-	-
1986-W68	2446516.10	1986 Mar 26 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1986-W69	2446516.10	1986 Mar 26 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1986-W70	2446516.15	1986 Mar 26 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1986-A07	2446516.29	1986 Mar 26 1853:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	49	-	-
1986-W78	2446542.19	1986 Apr 21 1634:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1986-W79	2446544.12	1986 Apr 23 1446:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1986-W81	2446545.16	1986 Apr 24 1555:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	65	-	-
1986-W82	2446545.52	1986 Apr 25 0023:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1986-W84	2446548.90	1986 Apr 28 0937:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1986-W85	2446548.97	1986 Apr 28 1119:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1986-W86	2446548.98	1986 Apr 28 1135:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1986-W88	2446551.10	1986 Apr 30 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1986-W89	2446553.29	1986 May 2 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1986-W94	2446560.30	1986 May 9 1904:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1986-W95	2446564.09	1986 May 13 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	68	-	-
1986-W96	2446564.29	1986 May 13 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1986-W101	2446572.29	1986 May 21 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1986-W102	2446573.38	1986 May 22 2102:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1986-W105	2446580.29	1986 May 29 1902:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1986-W107	2446598.38	1986 Jun 16 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1986-W108	2446599.38	1986 Jun 17 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1986-W109	2446599.41	1986 Jun 17 2149:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1986-W110	2446600.31	1986 Jun 18 1919:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1986-W111	2446602.38	1986 Jun 20 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	67	-	-
1986-W112	2446605.08	1986 Jun 23 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1986-W113	2446606.24	1986 Jun 24 1740:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1986-W115	2446608.25	1986 Jun 26 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1986-W116	2446609.21	1986 Jun 27 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1986-W121	2446622.43	1986 Jul 10 2215:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1986-W122	2446623.43	1986 Jul 11 2213:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	65	-	-
1986-W123	2446623.45	1986 Jul 11 2241:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1986-W125	2446629.46	1986 Jul 17 2302:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1986-W126	2446634.41	1986 Jul 22 2151:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	56	-	-
1986-W128	2446636.30	1986 Jul 24 1914:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1986-W129	2446637.67	1986 Jul 26 0359:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	65	-	-
1986-W130	2446637.70	1986 Jul 26 0442:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1986-W131	2446640.43	1986 Jul 28 2212:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1986-W132	2446640.45	1986 Jul 28 2242:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1986-W133	2446644.65	1986 Aug 2 0330:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	68	-	-
1986-W134	2446644.67	1986 Aug 2 0359:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1986-W135	2446648.44	1986 Aug 5 2227:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1986-W138	2446656.23	1986 Aug 13 1734:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1986-W139	2446658.30	1986 Aug 15 1909:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1986-W141	2446664.25	1986 Aug 21 1801:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	59	-	-
1986-W142	2446664.95	1986 Aug 22 1044:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1986-W143	2446665.06	1986 Aug 22 1327:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1986-W144	2446665.17	1986 Aug 22 1610:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	53	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-W145	2446666.27	1986 Aug 23 1825:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1986-W146	2446666.34	1986 Aug 23 2011:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1986-W147	2446668.42	1986 Aug 25 2206:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1986-W149	2446671.09	1986 Aug 28 1404:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1986-W150	2446674.30	1986 Aug 31 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	69	-	-
1986-W151	2446674.39	1986 Aug 31 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1986-W152	2446678.21	1986 Sep 4 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1986-W155	2446686.22	1986 Sep 12 1710:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1986-W156	2446686.44	1986 Sep 12 2230:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1986-W158	2446692.08	1986 Sep 18 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1986-W160	2446693.87	1986 Sep 20 0854:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1986-W161	2446693.95	1986 Sep 20 1043:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1986-W164	2446696.43	1986 Sep 22 2223:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1986-W165	2446696.44	1986 Sep 22 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	73	-	-
1986-W168	2446697.86	1986 Sep 24 0845:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1986-W169	2446698.06	1986 Sep 24 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1986-W171	2446699.09	1986 Sep 25 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	66	-	-
1986-W173	2446703.81	1986 Sep 30 0729:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	57	-	-
1986-W174	2446703.91	1986 Sep 30 0951:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1986-W175	2446703.96	1986 Sep 30 1057:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1986-W176	2446704.02	1986 Sep 30 1233:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1986-Y221	2446704.18	1986 Sep 30 1619:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	94	-	-
1986-W177	2446704.27	1986 Sep 30 1833:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1986-W178	2446705.29	1986 Oct 1 1858:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	52	-	-
1986-W179	2446707.20	1986 Oct 3 1641:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1986-W180	2446712.03	1986 Oct 8 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	70	-	-
1986-W181	2446713.15	1986 Oct 9 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1986-W182	2446713.43	1986 Oct 9 2213:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	71	-	-
1986-W183	2446714.25	1986 Oct 10 1804:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	63	-	-
1986-W184	2446718.20	1986 Oct 14 1643:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1986-W185	2446718.42	1986 Oct 14 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1986-W187	2446720.14	1986 Oct 16 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1986-W188	2446721.12	1986 Oct 17 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	68	-	-
1986-W189	2446725.19	1986 Oct 21 1640:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1986-W190	2446725.42	1986 Oct 21 2207:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1986-A10	2446726.08	1986 Oct 22 1349:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	48	-	-
1986-W191	2446726.11	1986 Oct 22 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1986-W192	2446726.29	1986 Oct 22 1900:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1986-W194	2446732.34	1986 Oct 28 2004:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1986-W196	2446733.12	1986 Oct 29 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1986-W197	2446734.05	1986 Oct 30 1306:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1986-W198	2446740.04	1986 Nov 5 1301:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1986-W199	2446740.11	1986 Nov 5 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	60	-	-
1986-W200	2446741.19	1986 Nov 6 1637:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1986-W201	2446742.29	1986 Nov 7 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	51	-	-
1986-W203	2446747.07	1986 Nov 12 1340:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1986-W204	2446747.20	1986 Nov 12 1645:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1986-W205	2446748.10	1986 Nov 13 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1986-A11	2446753.92	1986 Nov 19 0959:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	47	-	-
1986-W207	2446754.10	1986 Nov 19 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	67	-	-
1986-W208	2446755.92	1986 Nov 21 1007:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	59	-	-
1986-W209	2446761.14	1986 Nov 26 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1986-W210	2446763.05	1986 Nov 28 1317:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	50	-	-
1986-W211	2446766.12	1986 Dec 1 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1986-W212	2446766.30	1986 Dec 1 1904:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1986-W214	2446768.12	1986 Dec 3 1457:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1986-W215	2446768.12	1986 Dec 3 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1986-Y223	2446769.62	1986 Dec 5 0255:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	94	-	-
1986-W216	2446770.45	1986 Dec 5 2254:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1986-W217	2446774.41	1986 Dec 9 2153:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	70	-	-
1986-W219	2446777.31	1986 Dec 12 1924:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	55	-	-
1986-W220	2446780.05	1986 Dec 15 1307:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	54	-	-
1986-W221	2446781.20	1986 Dec 16 1641:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1986-Y224	2446782.17	1986 Dec 17 1607:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1986-W223	2446787.31	1986 Dec 22 1930:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	55	-	-
1986-W224	2446788.15	1986 Dec 23 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1986-W226	2446789.03	1986 Dec 24 1247:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	65	-	-
1986-W227	2446794.03	1986 Dec 29 1240:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1987-W10	2446803.03	1987 Jan 7 1248:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1987-W12	2446803.25	1987 Jan 7 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1987-W13	2446803.27	1987 Jan 7 1834:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	75	-	-
1987-W15	2446804.16	1987 Jan 8 1545:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1987-W16	2446804.42	1987 Jan 8 2204:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	63	-	-
1987-W21	2446808.26	1987 Jan 12 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	76	-	-
1987-W25	2446810.14	1987 Jan 14 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	50	-	-
1987-W26	2446810.25	1987 Jan 14 1804:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W27	2446811.20	1987 Jan 15 1654:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1987-Y18	2446811.25	1987 Jan 15 1753:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	94	-	-
1987-W28	2446811.27	1987 Jan 15 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1987-Y20	2446812.14	1987 Jan 16 1520:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	96	-	-
1987-Y24	2446816.10	1987 Jan 20 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	95	-	-
1987-Y25	2446816.15	1987 Jan 20 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	95	-	-
1987-W32	2446817.04	1987 Jan 21 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1987-A02	2446817.34	1987 Jan 21 2015:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	46	-	-
1987-W34	2446819.05	1987 Jan 23 1312:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1987-W35	2446823.88	1987 Jan 28 0900:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-W36	2446823.88	1987 Jan 28 0904:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	58	-	-
1987-A03	2446824.14	1987 Jan 28 1515:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	43	-	-
1987-W37	2446825.02	1987 Jan 29 1235:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	53	-	-
1987-W38	2446826.16	1987 Jan 30 1547:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1987-W40	2446831.04	1987 Feb 4 1253:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	62	-	-
1987-W43	2446832.16	1987 Feb 5 1549:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W44	2446838.02	1987 Feb 11 1230:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	50	-	-
1987-W45	2446838.16	1987 Feb 11 1545:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-A04	2446840.21	1987 Feb 13 1701:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	43	-	-
1987-W46	2446840.26	1987 Feb 13 1810:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1987-W48	2446845.04	1987 Feb 18 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1987-W49	2446845.23	1987 Feb 18 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1987-W50	2446850.15	1987 Feb 23 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-W53	2446854.06	1987 Feb 27 1321:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1987-W54	2446854.44	1987 Feb 27 2234:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	53	-	-
1987-W56	2446857.34	1987 Mar 2 2011:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1987-W60	2446859.15	1987 Mar 4 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W61	2446860.07	1987 Mar 5 1337:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1987-W66	2446866.14	1987 Mar 11 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	66	-	-
1987-Y103	2446870.88	1987 Mar 16 0906:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1987-W67	2446872.30	1987 Mar 17 1907:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1987-W70	2446873.38	1987 Mar 18 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1987-W71	2446874.15	1987 Mar 19 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1987-W73	2446876.14	1987 Mar 21 1517:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1987-W74	2446878.16	1987 Mar 23 1549:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1987-W75	2446879.08	1987 Mar 24 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1987-W76	2446879.23	1987 Mar 24 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-W80	2446880.17	1987 Mar 25 1607:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1987-W84	2446887.94	1987 Apr 2 1036:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	59	-	-
1987-W85	2446887.97	1987 Apr 2 1123:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1987-W86	2446888.03	1987 Apr 2 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	50	-	-
1987-Y122	2446888.10	1987 Apr 2 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	96	-	-
1987-W87	2446888.15	1987 Apr 2 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W89	2446892.26	1987 Apr 6 1809:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	50	-	-
1987-W92	2446894.10	1987 Apr 8 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1987-W93	2446895.10	1987 Apr 9 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	75	-	-
1987-W94	2446895.15	1987 Apr 9 1534:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1987-W96	2446896.11	1987 Apr 10 1437:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	75	-	-
1987-A06	2446901.95	1987 Apr 16 1054:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	48	-	-
1987-W98	2446902.00	1987 Apr 16 1155:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1987-A07	2446902.02	1987 Apr 16 1230:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	37	-	-
1987-W99	2446902.08	1987 Apr 16 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	68	-	-
1987-W100	2446902.42	1987 Apr 16 2202:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	71	-	-
1987-W101	2446903.31	1987 Apr 17 1919:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1987-W102	2446903.69	1987 Apr 18 0435:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W103	2446903.73	1987 Apr 18 0530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1987-Y141	2446908.26	1987 Apr 22 1813:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	84	-	-
1987-W107	2446908.26	1987 Apr 22 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	52	-	-
1987-W108	2446908.27	1987 Apr 22 1834:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1987-W110	2446909.24	1987 Apr 23 1740:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	75	-	-
1987-Y143	2446909.24	1987 Apr 23 1749:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1987-W111	2446909.25	1987 Apr 23 1800:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1987-W113	2446910.09	1987 Apr 24 1403:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-W114	2446910.10	1987 Apr 24 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1987-W116	2446914.08	1987 Apr 28 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-W118	2446915.10	1987 Apr 29 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-W119	2446916.42	1987 Apr 30 2157:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-Y151	2446916.43	1987 Apr 30 2217:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1987-W120	2446916.47	1987 Apr 30 2315:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1987-W121	2446920.42	1987 May 4 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	70	-	-
1987-W123	2446922.04	1987 May 6 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1987-Y157	2446924.23	1987 May 8 1733:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1987-W124	2446924.24	1987 May 8 1748:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	65	-	-
1987-W125	2446926.00	1987 May 10 1154:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1987-W126	2446926.04	1987 May 10 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	65	-	-
1987-W127	2446926.07	1987 May 10 1336:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1987-W128	2446928.00	1987 May 12 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1987-W131	2446929.21	1987 May 13 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W132	2446931.30	1987 May 15 1907:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	59	-	-
1987-W133	2446935.12	1987 May 19 1455:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1987-W134	2446935.13	1987 May 19 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1987-W137	2446936.29	1987 May 20 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1987-W138	2446936.74	1987 May 21 0541:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1987-W139	2446937.29	1987 May 21 1903:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1987-W142	2446945.04	1987 May 29 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	54	-	-
1987-W144	2446950.01	1987 Jun 3 1214:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	61	-	-
1987-W145	2446950.08	1987 Jun 3 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	53	-	-
1987-W147	2446950.22	1987 Jun 3 1720:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	51	-	-
1987-W148	2446950.23	1987 Jun 3 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W150	2446956.03	1987 Jun 9 1238:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1987-Y181	2446957.23	1987 Jun 10 1737:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	87	-	-
1987-W154	2446957.25	1987 Jun 10 1807:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	74	-	-
1987-W155	2446958.08	1987 Jun 11 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1987-W157	2446959.51	1987 Jun 13 0014:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1987-W159	2446962.06	1987 Jun 15 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1987-W160	2446962.10	1987 Jun 15 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-W163	2446964.00	1987 Jun 17 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1987-W166	2446966.62	1987 Jun 20 0257:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1987-W167	2446969.46	1987 Jun 22 2306:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1987-W168	2446970.06	1987 Jun 23 1326:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W172	2446971.17	1987 Jun 24 1557:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1987-Y193	2446972.05	1987 Jun 25 1314:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1987-W173	2446972.10	1987 Jun 25 1419:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1987-W179	2446984.70	1987 Jul 8 0454:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1987-A11	2446984.79	1987 Jul 8 0659:59	Rocketsonde	-	-	Chaff,Datasonde	-	-	-	KMR	-	-	-	43	-	-
1987-W182	2446986.40	1987 Jul 9 2130:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1987-W186	2446992.06	1987 Jul 15 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-W188	2446992.42	1987 Jul 15 2201:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	73	-	-
1987-W190	2446994.10	1987 Jul 17 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W192	2446997.43	1987 Jul 20 2224:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W196	2447001.11	1987 Jul 24 1437:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W202	2447012.09	1987 Aug 4 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W204	2447014.41	1987 Aug 6 2149:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1987-W205	2447018.32	1987 Aug 10 1940:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	61	-	-
1987-W206	2447019.03	1987 Aug 11 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1987-W208	2447020.41	1987 Aug 12 2154:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	71	-	-
1987-W209	2447020.43	1987 Aug 12 2223:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	55	-	-
1987-W210	2447021.10	1987 Aug 13 1420:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1987-W211	2447025.21	1987 Aug 17 1704:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W214	2447028.12	1987 Aug 20 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	59	-	-
1987-W215	2447029.31	1987 Aug 21 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1987-W216	2447031.74	1987 Aug 24 0546:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W217	2447035.09	1987 Aug 27 1415:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-A12	2447036.27	1987 Aug 28 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	33	-	-
1987-A13	2447037.57	1987 Aug 30 0144:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	37	-	-
1987-W219	2447041.22	1987 Sep 2 1711:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-A14	2447042.09	1987 Sep 3 1403:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	36	-	-
1987-Y282	2447046.10	1987 Sep 7 1430:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1987-W222	2447047.45	1987 Sep 8 2246:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1987-W223	2447047.49	1987 Sep 8 2340:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W224	2447047.53	1987 Sep 9 0045:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1987-W227	2447054.21	1987 Sep 15 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1987-W228	2447055.08	1987 Sep 16 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1987-W230	2447055.33	1987 Sep 16 2000:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1987-W232	2447059.88	1987 Sep 21 0913:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	50	-	-
1987-W233	2447060.01	1987 Sep 21 1218:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1987-W234	2447061.09	1987 Sep 22 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1987-W235	2447061.11	1987 Sep 22 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1987-W236	2447061.42	1987 Sep 22 2201:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1987-W240	2447068.08	1987 Sep 29 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	52	-	-
1987-W241	2447068.24	1987 Sep 29 1740:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W243	2447071.21	1987 Oct 2 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W245	2447072.95	1987 Oct 4 1049:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	66	-	-
1987-W246	2447074.27	1987 Oct 5 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1987-W247	2447075.22	1987 Oct 6 1718:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1987-W249	2447076.09	1987 Oct 7 1404:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1987-W250	2447077.97	1987 Oct 9 1113:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	53	-	-
1987-W251	2447082.11	1987 Oct 13 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1987-W254	2447084.10	1987 Oct 15 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-W259	2447091.07	1987 Oct 22 1340:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-W260	2447091.11	1987 Oct 22 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1987-W262	2447095.45	1987 Oct 26 2249:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	62	-	-
1987-A18	2447097.59	1987 Oct 29 0206:00	Rocketsonde	-	-	Chaff,Datasonde	-	-	-	KMR	-	-	-	48	-	-
1987-W266	2447098.10	1987 Oct 29 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	53	-	-
1987-A19	2447102.16	1987 Nov 2 1549:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	44	-	-
1987-W267	2447102.86	1987 Nov 3 0837:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	74	-	-
1987-W268	2447104.45	1987 Nov 4 2246:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1987-W269	2447105.10	1987 Nov 5 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	52	-	-
1987-W270	2447105.12	1987 Nov 5 1448:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W281	2447118.77	1987 Nov 19 0634:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1987-W282	2447120.15	1987 Nov 20 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1987-W287	2447127.15	1987 Nov 27 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1987-W288	2447128.68	1987 Nov 29 0418:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-A21	2447131.10	1987 Dec 1 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	35	-	-
1987-W291	2447131.33	1987 Dec 1 2001:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1987-W292	2447131.47	1987 Dec 1 2321:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	59	-	-
1987-W297	2447133.19	1987 Dec 3 1627:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1987-W305	2447139.25	1987 Dec 9 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1987-W307	2447141.07	1987 Dec 11 1335:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	67	-	-
1987-W308	2447141.08	1987 Dec 11 1355:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1987-W309	2447141.12	1987 Dec 11 1457:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1987-A22	2447147.12	1987 Dec 17 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	48	-	-
1988-W02	2447173.19	1988 Jan 12 1634:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1988-W03	2447174.22	1988 Jan 13 1720:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1988-A01	2447175.08	1988 Jan 14 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	46	-	-
1988-W10	2447181.13	1988 Jan 20 1507:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1988-A02	2447181.14	1988 Jan 20 1520:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	40	-	-
1988-W13	2447181.98	1988 Jan 21 1137:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1988-W14	2447182.03	1988 Jan 21 1245:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1988-W17	2447183.49	1988 Jan 22 2341:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1988-W21	2447189.10	1988 Jan 28 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1988-Y41	2447190.18	1988 Jan 29 1617:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	85	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-W23	2447194.08	1988 Feb 2 1402:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1988-Y45	2447197.09	1988 Feb 5 1410:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	81	-	-
1988-W25	2447198.36	1988 Feb 6 2040:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1988-W26	2447200.44	1988 Feb 8 2230:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	68	-	-
1988-W27	2447200.46	1988 Feb 8 2300:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1988-W29	2447204.10	1988 Feb 12 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1988-W31	2447207.21	1988 Feb 15 1701:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1988-W39	2447216.21	1988 Feb 24 1706:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	67	-	-
1988-W42	2447217.16	1988 Feb 25 1545:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1988-Y60	2447218.06	1988 Feb 26 1330:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1988-Y61	2447219.19	1988 Feb 27 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1988-W46	2447219.24	1988 Feb 27 1740:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	64	-	-
1988-W52	2447229.10	1988 Mar 8 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1988-W55	2447231.11	1988 Mar 10 1432:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	56	-	-
1988-W57	2447237.12	1988 Mar 16 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	51	-	-
1988-W61	2447239.10	1988 Mar 18 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	51	-	-
1988-W63	2447242.25	1988 Mar 21 1753:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1988-W66	2447246.10	1988 Mar 25 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1988-W69	2447251.05	1988 Mar 30 1309:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1988-W76	2447260.05	1988 Apr 8 1309:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1988-W80	2447263.36	1988 Apr 11 2037:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1988-W83	2447265.04	1988 Apr 13 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1988-W85	2447265.54	1988 Apr 14 0100:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1988-W87	2447266.13	1988 Apr 14 1501:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	73	-	-
1988-W88	2447267.27	1988 Apr 15 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1988-W89	2447267.36	1988 Apr 15 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	65	-	-
1988-A05	2447268.14	1988 Apr 16 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	48	-	-
1988-W96	2447278.34	1988 Apr 26 2015:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	56	-	-
1988-W98	2447279.07	1988 Apr 27 1341:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1988-W104	2447288.05	1988 May 6 1304:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1988-W106	2447293.04	1988 May 11 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1988-W109	2447306.05	1988 May 24 1309:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1988-W110	2447306.07	1988 May 24 1336:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1988-W118	2447316.16	1988 Jun 3 1546:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	54	-	-
1988-W119	2447319.08	1988 Jun 6 1352:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1988-W120	2447320.41	1988 Jun 7 2145:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1988-W124	2447328.33	1988 Jun 15 2002:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	62	-	-
1988-W125	2447329.42	1988 Jun 16 2209:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1988-W127	2447330.14	1988 Jun 17 1517:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1988-W129	2447335.05	1988 Jun 22 1304:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	56	-	-
1988-W134	2447343.26	1988 Jun 30 1821:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	65	-	-
1988-W137	2447357.42	1988 Jul 14 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1988-W142	2447385.23	1988 Aug 11 1737:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	63	-	-
1988-W144	2447391.04	1988 Aug 17 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1988-W147	2447398.01	1988 Aug 24 1217:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1988-W149	2447398.37	1988 Aug 24 2053:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1988-W150	2447399.19	1988 Aug 25 1630:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1988-W154	2447405.01	1988 Aug 31 1217:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1988-W156	2447407.42	1988 Sep 2 2209:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1988-W161	2447419.20	1988 Sep 14 1642:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	58	-	-
1988-Y224	2447420.42	1988 Sep 15 2159:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1988-W162	2447420.44	1988 Sep 15 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1988-W165	2447426.05	1988 Sep 21 1311:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	60	-	-
1988-W167	2447427.44	1988 Sep 22 2229:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	70	-	-
1988-W169	2447428.92	1988 Sep 24 1009:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1988-W171	2447433.31	1988 Sep 28 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1988-Y231	2447434.01	1988 Sep 29 1220:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1988-W173	2447434.03	1988 Sep 29 1245:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	68	-	-
1988-W174	2447434.06	1988 Sep 29 1329:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1988-W175	2447434.07	1988 Sep 29 1333:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	60	-	-
1988-Y232	2447434.09	1988 Sep 29 1415:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	84	-	-
1988-W176	2447434.11	1988 Sep 29 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1988-W177	2447434.14	1988 Sep 29 1527:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1988-Y233	2447436.09	1988 Oct 1 1415:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1988-W178	2447436.12	1988 Oct 1 1452:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	62	-	-
1988-Y234	2447438.04	1988 Oct 3 1300:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1988-W179	2447438.06	1988 Oct 3 1329:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1988-W180	2447438.21	1988 Oct 3 1708:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1988-W181	2447440.04	1988 Oct 5 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	52	-	-
1988-W183	2447454.91	1988 Oct 20 0956:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1988-W186	2447463.44	1988 Oct 28 2237:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1988-Y251	2447467.49	1988 Nov 1 2352:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1988-W205	2447495.43	1988 Nov 29 2218:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1988-Y274	2447498.11	1988 Dec 2 1433:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1988-Y275	2447498.13	1988 Dec 2 1503:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	84	-	-
1988-Y276	2447498.15	1988 Dec 2 1534:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1988-W207	2447498.18	1988 Dec 2 1613:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1988-W208	2447498.21	1988 Dec 2 1657:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	72	-	-
1988-Y277	2447498.21	1988 Dec 2 1702:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1988-Y278	2447500.09	1988 Dec 4 1404:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	93	-	-
1988-W209	2447500.22	1988 Dec 4 1715:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1988-W210	2447500.27	1988 Dec 4 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1988-Y279	2447502.09	1988 Dec 6 1410:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1988-Y280	2447502.11	1988 Dec 6 1442:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	91	-	-
1988-W211	2447502.13	1988 Dec 6 1511:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	54	-	-
1988-W212	2447502.18	1988 Dec 6 1622:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-W213	2447502.52	1988 Dec 7 0031:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1988-W218	2447510.33	1988 Dec 14 1957:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1989-W06	2447531.12	1989 Jan 4 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1989-W08	2447531.14	1989 Jan 4 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W14	2447535.12	1989 Jan 8 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W16	2447535.99	1989 Jan 9 1142:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-W17	2447536.03	1989 Jan 9 1246:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1989-W23	2447538.13	1989 Jan 11 1509:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	69	-	-
1989-W29	2447545.12	1989 Jan 18 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	59	-	-
1989-W30	2447546.15	1989 Jan 19 1529:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	67	-	-
1989-W32	2447550.06	1989 Jan 23 1332:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1989-W36	2447552.10	1989 Jan 25 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-W37	2447552.10	1989 Jan 25 1431:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1989-W39	2447552.92	1989 Jan 26 0958:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-Y24	2447552.95	1989 Jan 26 1046:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1989-W42	2447553.51	1989 Jan 27 0011:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1989-W46	2447559.32	1989 Feb 1 1942:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1989-W53	2447567.17	1989 Feb 9 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W55	2447568.34	1989 Feb 10 2012:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1989-W56	2447569.10	1989 Feb 11 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W58	2447573.13	1989 Feb 15 1509:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W61	2447580.03	1989 Feb 22 1244:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1989-W63	2447580.12	1989 Feb 22 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W65	2447581.15	1989 Feb 23 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-W68	2447583.99	1989 Feb 26 1146:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	65	-	-
1989-W69	2447585.15	1989 Feb 27 1529:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	56	-	-
1989-W70	2447587.12	1989 Mar 1 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1989-W71	2447587.15	1989 Mar 1 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-W73	2447594.11	1989 Mar 8 1443:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	65	-	-
1989-W74	2447594.15	1989 Mar 8 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	51	-	-
1989-W76	2447598.12	1989 Mar 12 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1989-Y75	2447598.96	1989 Mar 13 1103:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	95	-	-
1989-Y76	2447599.00	1989 Mar 13 1154:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1989-W77	2447599.02	1989 Mar 13 1225:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1989-W78	2447599.06	1989 Mar 13 1329:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1989-W80	2447600.15	1989 Mar 14 1540:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1989-W81	2447600.94	1989 Mar 15 1033:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	76	-	-
1989-W82	2447600.96	1989 Mar 15 1102:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	70	-	-
1989-W83	2447601.00	1989 Mar 15 1201:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1989-W84	2447601.05	1989 Mar 15 1306:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1989-W86	2447601.12	1989 Mar 15 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1989-W89	2447602.21	1989 Mar 16 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1989-Y79	2447602.97	1989 Mar 17 1120:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	81	-	-
1989-W91	2447603.00	1989 Mar 17 1157:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	54	-	-
1989-W92	2447603.11	1989 Mar 17 1432:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	59	-	-
1989-Y81	2447603.90	1989 Mar 18 0930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1989-Y82	2447603.91	1989 Mar 18 0956:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	84	-	-
1989-W93	2447603.95	1989 Mar 18 1045:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	68	-	-
1989-W94	2447603.98	1989 Mar 18 1130:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	64	-	-
1989-W95	2447603.99	1989 Mar 18 1148:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1989-Y83	2447604.11	1989 Mar 18 1434:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1989-W96	2447604.13	1989 Mar 18 1509:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1989-W97	2447604.14	1989 Mar 18 1519:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	75	-	-
1989-W99	2447606.12	1989 Mar 20 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1989-W100	2447608.14	1989 Mar 22 1522:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	65	-	-
1989-W101	2447609.15	1989 Mar 23 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1989-W102	2447615.13	1989 Mar 29 1507:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1989-W104	2447621.32	1989 Apr 4 1940:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	63	-	-
1989-W107	2447628.09	1989 Apr 11 1411:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1989-W108	2447628.13	1989 Apr 11 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1989-W111	2447635.92	1989 Apr 19 0959:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	64	-	-
1989-A03	2447636.08	1989 Apr 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	25	-	-
1989-W114	2447636.08	1989 Apr 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-W115	2447636.09	1989 Apr 19 1404:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1989-W117	2447643.22	1989 Apr 26 1711:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	74	-	-
1989-W118	2447644.27	1989 Apr 27 1834:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1989-Y101	2447645.14	1989 Apr 28 1518:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1989-W119	2447645.19	1989 Apr 28 1638:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1989-Y102	2447649.38	1989 May 2 2100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1989-W120	2447649.39	1989 May 2 2125:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W122	2447650.05	1989 May 3 1310:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	69	-	-
1989-W123	2447650.22	1989 May 3 1713:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1989-Y107	2447651.32	1989 May 4 1935:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1989-W125	2447651.34	1989 May 4 2013:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1989-Y108	2447651.38	1989 May 4 2100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1989-Y109	2447651.40	1989 May 4 2130:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1989-W126	2447651.42	1989 May 4 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	69	-	-
1989-Y110	2447652.15	1989 May 5 1531:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1989-W127	2447652.17	1989 May 5 1610:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1989-W128	2447652.22	1989 May 5 1722:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1989-Y111	2447655.10	1989 May 8 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1989-Y112	2447655.11	1989 May 8 1437:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1989-W129	2447655.12	1989 May 8 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	70	-	-
1989-Y113	2447655.13	1989 May 8 1503:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1989-W130	2447655.17	1989 May 8 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	58	-	-
1989-W131	2447655.19	1989 May 8 1633:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-Y114	2447655.21	1989 May 8 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1989-Y115	2447655.32	1989 May 8 1943:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-W132	2447655.32	1989 May 8 1943:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	57	-	-
1989-W133	2447655.34	1989 May 8 2014:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-W134	2447655.38	1989 May 8 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1989-W138	2447658.07	1989 May 11 1340:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1989-A04	2447662.12	1989 May 15 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	49	-	-
1989-W140	2447662.21	1989 May 15 1703:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1989-W142	2447665.08	1989 May 18 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-W143	2447665.14	1989 May 18 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-W145	2447666.08	1989 May 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1989-W146	2447669.08	1989 May 22 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W150	2447671.09	1989 May 24 1413:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W157	2447684.12	1989 Jun 6 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1989-W160	2447686.12	1989 Jun 8 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1989-W162	2447691.21	1989 Jun 13 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1989-W164	2447692.09	1989 Jun 14 1411:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	62	-	-
1989-W168	2447694.09	1989 Jun 16 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1989-W169	2447697.21	1989 Jun 19 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W170	2447698.21	1989 Jun 20 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1989-W175	2447699.28	1989 Jun 21 1849:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	70	-	-
1989-W176	2447700.45	1989 Jun 22 2252:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1989-W178	2447704.21	1989 Jun 26 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1989-W181	2447706.08	1989 Jun 28 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1989-Y149	2447719.06	1989 Jul 11 1330:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-Y154	2447727.08	1989 Jul 19 1401:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-W187	2447741.17	1989 Aug 2 1609:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1989-W189	2447746.08	1989 Aug 7 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1989-Y166	2447747.04	1989 Aug 8 1256:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	91	-	-
1989-W190	2447747.09	1989 Aug 8 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1989-Y167	2447747.10	1989 Aug 8 1420:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-W191	2447747.12	1989 Aug 8 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1989-W192	2447748.12	1989 Aug 9 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1989-W194	2447748.26	1989 Aug 9 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1989-W195	2447749.02	1989 Aug 10 1233:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	62	-	-
1989-W196	2447749.06	1989 Aug 10 1322:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1989-A05	2447749.10	1989 Aug 10 1427:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	0	-	-
1989-W197	2447750.10	1989 Aug 11 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-Y172	2447751.93	1989 Aug 13 1020:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	94	-	-
1989-W198	2447751.96	1989 Aug 13 1057:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1989-W199	2447751.96	1989 Aug 13 1100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	60	-	-
1989-W200	2447752.00	1989 Aug 13 1154:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1989-W201	2447752.00	1989 Aug 13 1155:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	62	-	-
1989-Y173	2447752.07	1989 Aug 13 1336:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-W202	2447752.07	1989 Aug 13 1336:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	63	-	-
1989-W203	2447752.09	1989 Aug 13 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1989-W204	2447752.14	1989 Aug 13 1515:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1989-W205	2447755.10	1989 Aug 16 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1989-W208	2447763.20	1989 Aug 24 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1989-W209	2447764.06	1989 Aug 25 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1989-W213	2447771.08	1989 Sep 1 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1989-A07	2447775.60	1989 Sep 6 0223:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	19	-	-
1989-W224	2447785.21	1989 Sep 15 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1989-W225	2447792.21	1989 Sep 22 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1989-W226	2447796.23	1989 Sep 26 1725:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1989-W227	2447798.19	1989 Sep 28 1634:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1989-W229	2447804.10	1989 Oct 4 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1989-W235	2447811.18	1989 Oct 11 1625:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W238	2447816.10	1989 Oct 16 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1989-W239	2447817.09	1989 Oct 17 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1989-Y251	2447818.27	1989 Oct 18 1826:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1989-W243	2447818.29	1989 Oct 18 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1989-W244	2447818.39	1989 Oct 18 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	58	-	-
1989-Y252	2447818.40	1989 Oct 18 2130:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1989-W245	2447819.10	1989 Oct 19 1420:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1989-W246	2447820.08	1989 Oct 20 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-A09	2447823.21	1989 Oct 23 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	49	-	-
1989-W251	2447823.22	1989 Oct 23 1712:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-W252	2447823.26	1989 Oct 23 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1989-W253	2447823.33	1989 Oct 23 1948:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	69	-	-
1989-W255	2447825.06	1989 Oct 25 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	70	-	-
1989-W256	2447825.09	1989 Oct 25 1403:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1989-W258	2447830.04	1989 Oct 30 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	69	-	-
1989-W259	2447831.23	1989 Oct 31 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1989-W260	2447832.09	1989 Nov 1 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1989-Y272	2447832.12	1989 Nov 1 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1989-W261	2447833.24	1989 Nov 2 1745:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1989-W263	2447838.23	1989 Nov 7 1731:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1989-W267	2447839.13	1989 Nov 8 1506:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W270	2447846.44	1989 Nov 15 2236:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1989-W272	2447852.09	1989 Nov 21 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W273	2447852.25	1989 Nov 21 1758:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1989-W276	2447853.08	1989 Nov 22 1401:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1989-W277	2447853.17	1989 Nov 22 1603:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1989-W278	2447853.34	1989 Nov 22 2006:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1989-Y289	2447853.54	1989 Nov 23 0102:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-W279	2447853.60	1989 Nov 23 0230:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1989-W280	2447857.09	1989 Nov 26 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1989-Y291	2447857.10	1989 Nov 26 1424:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1989-Y292	2447857.13	1989 Nov 26 1504:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1989-W281	2447857.13	1989 Nov 26 1509:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1989-W283	2447858.52	1989 Nov 28 0030:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	61	-	-
1989-W284	2447858.52	1989 Nov 28 0030:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1989-Y294	2447858.54	1989 Nov 28 0059:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1989-Y295	2447858.55	1989 Nov 28 0106:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1989-W285	2447858.56	1989 Nov 28 0130:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1989-Y296	2447858.58	1989 Nov 28 0158:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1989-W286	2447858.59	1989 Nov 28 0210:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1989-W287	2447858.61	1989 Nov 28 0245:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	54	-	-
1989-W289	2447860.12	1989 Nov 29 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1989-W291	2447860.28	1989 Nov 29 1849:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-Y299	2447865.23	1989 Dec 4 1735:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1989-A12	2447865.31	1989 Dec 4 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	38	-	-
1989-W292	2447867.12	1989 Dec 6 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1989-W293	2447867.15	1989 Dec 6 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1989-A13	2447869.49	1989 Dec 8 2345:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	35	-	-
1989-Y306	2447874.11	1989 Dec 13 1435:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1989-W295	2447874.13	1989 Dec 13 1504:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	63	-	-
1989-Y308	2447874.14	1989 Dec 13 1526:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1989-W296	2447874.18	1989 Dec 13 1619:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W297	2447874.20	1989 Dec 13 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	68	-	-
1989-W298	2447876.11	1989 Dec 15 1437:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1989-W299	2447876.17	1989 Dec 15 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1989-Y309	2447876.19	1989 Dec 15 1630:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1989-W300	2447876.22	1989 Dec 15 1715:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1989-W301	2447878.19	1989 Dec 17 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1989-W302	2447879.43	1989 Dec 18 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1989-W305	2447887.27	1989 Dec 26 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1989-W306	2447889.44	1989 Dec 28 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1990-W31	2447909.13	1990 Jan 17 1507:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1990-W32	2447910.75	1990 Jan 19 0557:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1990-Y51	2447910.75	1990 Jan 19 0604:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1990-Y52	2447910.77	1990 Jan 19 0630:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1990-W34	2447910.82	1990 Jan 19 0737:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	54	-	-
1990-W36	2447911.67	1990 Jan 20 0401:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	61	-	-
1990-W37	2447911.71	1990 Jan 20 0458:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	57	-	-
1990-W49	2447916.43	1990 Jan 24 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1990-Y75	2447916.46	1990 Jan 24 2302:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1990-W63	2447923.12	1990 Jan 31 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1990-W73	2447930.43	1990 Feb 7 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1990-W79	2447937.01	1990 Feb 14 1212:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	67	-	-
1990-W82	2447937.12	1990 Feb 14 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1990-Y199	2447955.14	1990 Mar 4 1527:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1990-W104	2447955.16	1990 Mar 4 1547:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1990-W105	2447955.20	1990 Mar 4 1646:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1990-W114	2447958.44	1990 Mar 7 2237:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	61	-	-
1990-Y219	2447958.45	1990 Mar 7 2252:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1990-Y262	2447978.98	1990 Mar 28 1132:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1990-Y266	2447993.46	1990 Apr 11 2300:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1990-Y267	2448007.42	1990 Apr 25 2159:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1990-W136	2448010.95	1990 Apr 29 1041:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1990-W137	2448010.98	1990 Apr 29 1137:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	66	-	-
1990-W138	2448020.38	1990 May 8 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	60	-	-
1990-Y268	2448020.41	1990 May 8 2152:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1990-Y269	2448020.44	1990 May 8 2233:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1990-W139	2448020.53	1990 May 9 0045:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1990-Y270	2448035.40	1990 May 23 2130:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1990-W146	2448069.06	1990 Jun 26 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1990-W147	2448090.15	1990 Jul 17 1537:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1990-W148	2448092.08	1990 Jul 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1990-W149	2448096.00	1990 Jul 23 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1990-W150	2448104.06	1990 Jul 31 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1990-W151	2448111.08	1990 Aug 7 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1990-W152	2448120.08	1990 Aug 16 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1990-W153	2448125.19	1990 Aug 21 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1990-A05	2448125.90	1990 Aug 22 0930:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	46	-	-
1990-W154	2448127.08	1990 Aug 23 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1990-W156	2448134.10	1990 Aug 30 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1990-W158	2448152.05	1990 Sep 17 1314:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	51	-	-
1990-A06	2448154.08	1990 Sep 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	43	-	-
1990-W159	2448154.11	1990 Sep 19 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1990-Y272	2448154.39	1990 Sep 19 2126:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1990-W160	2448156.24	1990 Sep 21 1745:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1990-Y273	2448160.39	1990 Sep 25 2114:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1990-W162	2448161.28	1990 Sep 26 1845:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1990-W163	2448162.08	1990 Sep 27 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1990-W164	2448166.04	1990 Oct 1 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1990-W165	2448170.07	1990 Oct 5 1344:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1990-Y274	2448171.03	1990 Oct 6 1245:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1990-W166	2448171.08	1990 Oct 6 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1990-Y275	2448174.86	1990 Oct 10 0833:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	94	-	-
1990-Y276	2448174.90	1990 Oct 10 0931:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-W167	2448174.91	1990 Oct 10 0953:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	59	-	-
1990-W168	2448174.94	1990 Oct 10 1033:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	55	-	-
1990-W169	2448174.95	1990 Oct 10 1042:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	59	-	-
1990-W170	2448174.98	1990 Oct 10 1137:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	62	-	-
1990-W173	2448182.06	1990 Oct 17 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1990-Y277	2448182.39	1990 Oct 17 2114:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1990-Y278	2448189.40	1990 Oct 24 2135:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1990-W175	2448194.12	1990 Oct 29 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1990-Y279	2448196.43	1990 Oct 31 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W22	2448263.12	1991 Jan 6 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1991-Y01	2448266.43	1991 Jan 9 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W23	2448273.23	1991 Jan 16 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1991-W24	2448274.12	1991 Jan 17 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1991-Y02	2448280.43	1991 Jan 23 2220:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1991-W25	2448285.91	1991 Jan 29 0945:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	77	-	-
1991-W26	2448287.12	1991 Jan 30 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1991-W27	2448292.89	1991 Feb 5 0914:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	63	-	-
1991-W28	2448293.12	1991 Feb 5 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1991-W31	2448301.12	1991 Feb 13 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1991-W32	2448301.23	1991 Feb 13 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	76	-	-
1991-W33	2448306.88	1991 Feb 19 0900:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	53	-	-
1991-Y03	2448308.43	1991 Feb 20 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W34	2448315.13	1991 Feb 27 1510:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1991-Y04	2448315.43	1991 Feb 27 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W35	2448322.23	1991 Mar 6 1736:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1991-W36	2448323.12	1991 Mar 7 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1991-W37	2448329.23	1991 Mar 13 1731:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	77	-	-
1991-W38	2448329.42	1991 Mar 13 2159:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	62	-	-
1991-W39	2448335.86	1991 Mar 20 0832:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1991-Y05	2448336.43	1991 Mar 20 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1991-Y06	2448336.44	1991 Mar 20 2230:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W40	2448343.23	1991 Mar 27 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1991-W41	2448343.26	1991 Mar 27 1814:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1991-Y07	2448343.43	1991 Mar 27 2214:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1991-W42	2448348.88	1991 Apr 2 0900:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1991-W43	2448349.11	1991 Apr 2 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	57	-	-
1991-W44	2448350.12	1991 Apr 3 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1991-W45	2448350.17	1991 Apr 3 1603:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	70	-	-
1991-W46	2448351.12	1991 Apr 4 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-Y08	2448352.13	1991 Apr 5 1510:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1991-W47	2448352.23	1991 Apr 5 1730:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1991-Y09	2448356.96	1991 Apr 10 1100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	93	-	-
1991-Y10	2448356.98	1991 Apr 10 1130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	91	-	-
1991-W48	2448357.00	1991 Apr 10 1200:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	62	-	-
1991-W49	2448357.04	1991 Apr 10 1301:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1991-W50	2448357.06	1991 Apr 10 1326:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1991-Y11	2448357.39	1991 Apr 10 2114:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-Y12	2448357.94	1991 Apr 11 1030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1991-W51	2448357.96	1991 Apr 11 1102:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1991-Y13	2448357.98	1991 Apr 11 1135:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1991-W52	2448358.00	1991 Apr 11 1206:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	56	-	-
1991-W53	2448358.01	1991 Apr 11 1211:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	60	-	-
1991-W54	2448358.08	1991 Apr 11 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1991-W55	2448358.49	1991 Apr 11 2340:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1991-W56	2448362.55	1991 Apr 16 0114:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1991-W57	2448364.08	1991 Apr 17 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1991-Y14	2448364.39	1991 Apr 17 2122:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W58	2448369.12	1991 Apr 22 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1991-Y15	2448371.39	1991 Apr 24 2123:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1991-W59	2448373.17	1991 Apr 26 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1991-Y16	2448375.01	1991 Apr 28 1218:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1991-W60	2448375.05	1991 Apr 28 1304:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-Y17	2448376.19	1991 Apr 29 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	81	-	-
1991-W61	2448380.08	1991 May 3 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1991-W62	2448383.08	1991 May 6 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	70	-	-
1991-W63	2448383.13	1991 May 6 1506:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	69	-	-
1991-Y18	2448383.14	1991 May 6 1521:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1991-W64	2448383.17	1991 May 6 1602:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1991-W65	2448383.27	1991 May 6 1827:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	71	-	-
1991-Y19	2448383.30	1991 May 6 1909:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1991-W66	2448383.35	1991 May 6 2023:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-W67	2448392.19	1991 May 15 1630:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1991-W68	2448404.19	1991 May 27 1632:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	79	-	-
1991-W69	2448405.08	1991 May 28 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-W70	2448405.74	1991 May 29 0549:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	70	-	-
1991-W71	2448408.07	1991 May 31 1334:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	52	-	-
1991-W72	2448412.06	1991 Jun 4 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1991-Y20	2448413.10	1991 Jun 5 1425:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1991-W73	2448413.13	1991 Jun 5 1500:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-W74	2448415.07	1991 Jun 7 1333:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1991-W75	2448422.00	1991 Jun 14 1200:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1991-W76	2448422.04	1991 Jun 14 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1991-W77	2448422.05	1991 Jun 14 1318:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	58	-	-
1991-W78	2448422.10	1991 Jun 14 1420:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1991-W79	2448425.08	1991 Jun 17 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1991-W80	2448434.20	1991 Jun 26 1643:59	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-W81	2448435.57	1991 Jun 28 0138:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	67	-	-
1991-W82	2448436.30	1991 Jun 28 1907:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	65	-	-
1991-W83	2448439.08	1991 Jul 1 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1991-W84	2448439.27	1991 Jul 1 1829:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1991-W85	2448455.08	1991 Jul 17 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1991-W86	2448455.21	1991 Jul 17 1702:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	50	-	-
1991-W87	2448461.12	1991 Jul 23 1455:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1991-W88	2448467.43	1991 Jul 29 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1991-W89	2448469.11	1991 Jul 31 1445:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1991-Y26	2448471.17	1991 Aug 2 1602:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1991-W90	2448471.20	1991 Aug 2 1644:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1991-Y32	2448479.81	1991 Aug 11 0730:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	92	-	-
1991-Y33	2448479.83	1991 Aug 11 0800:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	95	-	-
1991-W91	2448479.85	1991 Aug 11 0830:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1991-W92	2448479.90	1991 Aug 11 0933:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	69	-	-
1991-W93	2448479.93	1991 Aug 11 1021:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	50	-	-
1991-W94	2448479.94	1991 Aug 11 1030:00	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	66	-	-
1991-W95	2448479.99	1991 Aug 11 1152:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	63	-	-
1991-W96	2448480.03	1991 Aug 11 1237:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	75	-	-
1991-W97	2448480.05	1991 Aug 11 1312:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1991-W98	2448480.07	1991 Aug 11 1334:59	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	58	-	-
1991-W99	2448485.56	1991 Aug 17 0130:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	61	-	-
1991-W100	2448488.08	1991 Aug 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1991-W101	2448497.47	1991 Aug 28 2320:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	65	-	-
1991-Y34	2448499.53	1991 Aug 31 0041:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1991-W102	2448499.61	1991 Aug 31 0245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	67	-	-
1991-W103	2448501.08	1991 Sep 1 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1991-W105	2448511.14	1991 Sep 11 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1991-W106	2448511.22	1991 Sep 11 1722:00	Rocketsonde	-	-	Datasonde	-	-	-	PRIM	-	-	-	74	-	-
1991-W107	2448511.44	1991 Sep 11 2233:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1991-Y35	2448512.51	1991 Sep 13 0010:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1991-W109	2448512.53	1991 Sep 13 0045:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1991-W110	2448523.89	1991 Sep 24 0922:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1991-W111	2448532.37	1991 Oct 2 2047:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1991-W112	2448539.22	1991 Oct 9 1711:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1991-W113	2448539.43	1991 Oct 9 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	63	-	-
1991-W114	2448543.12	1991 Oct 13 1449:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1991-W115	2448546.08	1991 Oct 16 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1991-W116	2448546.51	1991 Oct 17 0008:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1991-W117	2448553.08	1991 Oct 23 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1991-W118	2448560.12	1991 Oct 30 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1991-Y36	2448560.42	1991 Oct 30 2159:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	81	-	-
1991-W119	2448560.44	1991 Oct 30 2232:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	61	-	-
1991-Y37	2448561.92	1991 Nov 1 0959:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	86	-	-
1991-W120	2448565.42	1991 Nov 4 2209:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	57	-	-
1991-Y38	2448567.14	1991 Nov 6 1514:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1991-W121	2448567.16	1991 Nov 6 1554:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1991-W122	2448572.05	1991 Nov 11 1313:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1991-W123	2448572.35	1991 Nov 11 2030:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	51	-	-
1991-W124	2448574.14	1991 Nov 13 1521:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1991-W125	2448579.15	1991 Nov 18 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1991-W126	2448581.13	1991 Nov 20 1511:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1991-W127	2448583.14	1991 Nov 22 1514:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1991-W128	2448588.14	1991 Nov 27 1524:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1991-W129	2448596.42	1991 Dec 5 2203:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1991-W130	2448597.28	1991 Dec 6 1844:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1991-Y39	2448605.25	1991 Dec 14 1755:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1991-Y40	2448608.09	1991 Dec 17 1404:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1991-W131	2448609.44	1991 Dec 18 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	66	-	-
1991-Y41	2448612.20	1991 Dec 21 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1991-Y42	2448614.12	1991 Dec 23 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1991-Y43	2448614.16	1991 Dec 23 1545:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1992-W01	2448624.34	1992 Jan 2 2008:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1992-W03	2448643.12	1992 Jan 21 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1992-Y01	2448644.44	1992 Jan 22 2230:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	86	-	-
1992-W05	2448644.46	1992 Jan 22 2300:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	74	-	-
1992-W07	2448658.25	1992 Feb 5 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1992-W08	2448660.25	1992 Feb 7 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1992-Y02	2448664.30	1992 Feb 11 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1992-W09	2448664.32	1992 Feb 11 1938:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1992-W10	2448666.44	1992 Feb 13 2234:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	68	-	-
1992-Y03	2448666.48	1992 Feb 13 2335:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	89	-	-
1992-Y04	2448667.25	1992 Feb 14 1755:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-W12	2448667.26	1992 Feb 14 1817:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	68	-	-
1992-W13	2448670.12	1992 Feb 17 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1992-W17	2448674.12	1992 Feb 21 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1992-W18	2448674.70	1992 Feb 22 0444:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	68	-	-
1992-Y05	2448679.47	1992 Feb 26 2320:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	90	-	-
1992-A02	2448685.12	1992 Mar 3 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ANT	-	-	-	49	-	-
1992-W26	2448693.15	1992 Mar 11 1534:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W27	2448693.89	1992 Mar 12 0924:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	70	-	-
1992-Y06	2448699.08	1992 Mar 17 1349:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y07	2448700.08	1992 Mar 18 1354:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	95	-	-
1992-Y08	2448700.42	1992 Mar 18 2159:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	90	-	-
1992-W29	2448700.48	1992 Mar 18 2325:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	70	-	-
1992-Y09	2448701.08	1992 Mar 19 1400:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1992-W31	2448703.25	1992 Mar 21 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1992-Y10	2448707.17	1992 Mar 25 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1992-Y11	2448712.11	1992 Mar 30 1445:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y12	2448714.42	1992 Apr 1 2159:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	85	-	-
1992-W37	2448714.44	1992 Apr 1 2230:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	63	-	-
1992-A06	2448715.12	1992 Apr 2 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	49	-	-
1992-W38	2448715.25	1992 Apr 2 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1992-W40	2448719.09	1992 Apr 6 1407:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	54	-	-
1992-W41	2448720.62	1992 Apr 8 0300:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	65	-	-
1992-W42	2448721.25	1992 Apr 8 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-Y13	2448721.40	1992 Apr 8 2130:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y14	2448728.40	1992 Apr 15 2136:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y15	2448729.09	1992 Apr 16 1403:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1992-Y16	2448735.29	1992 Apr 22 1902:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-Y17	2448736.08	1992 Apr 23 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1992-Y18	2448741.08	1992 Apr 28 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1992-Y19	2448741.24	1992 Apr 28 1740:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y20	2448748.56	1992 May 6 0132:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	90	-	-
1992-W48	2448748.58	1992 May 6 0156:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	72	-	-
1992-W49	2448749.21	1992 May 6 1700:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	72	-	-
1992-W50	2448755.06	1992 May 12 1327:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1992-W51	2448762.08	1992 May 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W53	2448771.09	1992 May 28 1408:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1992-Y21	2448776.06	1992 Jun 2 1330:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-W55	2448779.08	1992 Jun 5 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1992-W56	2448782.08	1992 Jun 8 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1992-W59	2448790.90	1992 Jun 17 0932:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1992-Y22	2448791.08	1992 Jun 17 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1992-W60	2448792.36	1992 Jun 18 2034:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	68	-	-
1992-W61	2448793.17	1992 Jun 19 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1992-W62	2448797.04	1992 Jun 23 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W64	2448798.10	1992 Jun 24 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W65	2448800.25	1992 Jun 26 1800:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W66	2448803.09	1992 Jun 29 1403:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-Y23	2448803.39	1992 Jun 29 2115:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-W67	2448803.89	1992 Jun 30 0924:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	51	-	-
1992-Y24	2448804.08	1992 Jun 30 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	82	-	-
1992-W68	2448805.50	1992 Jul 2 0000:00	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1992-W69	2448806.08	1992 Jul 2 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1992-W70	2448806.27	1992 Jul 2 1827:59	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	57	-	-
1992-W71	2448810.08	1992 Jul 6 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1992-W72	2448810.23	1992 Jul 6 1733:00	Rocketsonde	-	-	Datasonde	-	-	-	PM	-	-	-	64	-	-
1992-Y25	2448814.08	1992 Jul 10 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1992-W74	2448819.08	1992 Jul 15 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	63	-	-
1992-W75	2448819.12	1992 Jul 15 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	61	-	-
1992-Y26	2448826.07	1992 Jul 22 1340:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-W79	2448832.04	1992 Jul 28 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1992-Y27	2448832.30	1992 Jul 28 1912:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-W80	2448833.42	1992 Jul 29 2204:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	51	-	-
1992-W81	2448834.10	1992 Jul 30 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W82	2448839.41	1992 Aug 4 2145:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1992-Y28	2448840.17	1992 Aug 5 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1992-Y29	2448841.12	1992 Aug 6 1449:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1992-W84	2448842.21	1992 Aug 7 1704:59	Rocketsonde	-	-	Datasonde	-	-	-	KAU	-	-	-	67	-	-
1992-Y30	2448845.26	1992 Aug 10 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1992-Y31	2448847.08	1992 Aug 12 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1992-W86	2448854.08	1992 Aug 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1992-Y32	2448854.16	1992 Aug 19 1544:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-Y34	2448859.09	1992 Aug 24 1409:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-W87	2448865.08	1992 Aug 30 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1992-W88	2448869.36	1992 Sep 3 2045:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1992-W89	2448874.10	1992 Sep 8 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1992-W92	2448877.08	1992 Sep 11 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1992-W94	2448890.09	1992 Sep 24 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-Y35	2448903.17	1992 Oct 7 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	96	-	-
1992-W96	2448905.08	1992 Oct 9 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1992-W98	2448910.12	1992 Oct 14 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1992-W99	2448912.07	1992 Oct 16 1342:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	66	-	-
1992-W100	2448915.38	1992 Oct 19 2100:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	64	-	-
1992-Y36	2448916.12	1992 Oct 20 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1992-W101	2448917.05	1992 Oct 21 1314:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1992-W104	2448932.12	1992 Nov 5 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1992-Y37	2448933.05	1992 Nov 6 1309:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-W105	2448937.32	1992 Nov 10 1944:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	68	-	-
1992-W107	2448947.12	1992 Nov 20 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	54	-	-
1992-W109	2448958.12	1992 Dec 1 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1992-A19	2448972.12	1992 Dec 15 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	47	-	-
1992-Y40	2448973.17	1992 Dec 16 1609:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1992-W112	2448975.08	1992 Dec 18 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1992-W113	2448978.15	1992 Dec 21 1530:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	53	-	-
1993-Y01	2448993.12	1993 Jan 5 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	88	-	-
1993-W02	2449000.27	1993 Jan 12 1830:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	53	-	-
1993-Y02	2449002.89	1993 Jan 15 0924:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	91	-	-
1993-W05	2449020.29	1993 Feb 1 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1993-Y03	2449036.15	1993 Feb 17 1540:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-Y04	2449043.04	1993 Feb 24 1301:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	88	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-Y05	2449056.74	1993 Mar 10 0540:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	90	-	-
1993-W10	2449064.12	1993 Mar 17 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1993-W11	2449068.09	1993 Mar 21 1415:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1993-W13	2449071.14	1993 Mar 24 1519:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1993-W14	2449071.16	1993 Mar 24 1545:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1993-W15	2449073.15	1993 Mar 26 1540:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1993-Y06	2449076.27	1993 Mar 29 1830:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1993-W16	2449082.12	1993 Apr 4 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	79	-	-
1993-Y07	2449084.33	1993 Apr 6 2000:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1993-Y08	2449101.08	1993 Apr 23 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	86	-	-
1993-Y09	2449103.05	1993 Apr 25 1314:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1993-Y10	2449107.17	1993 Apr 29 1600:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-W20	2449114.62	1993 May 7 0249:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	71	-	-
1993-Y11	2449119.08	1993 May 11 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	82	-	-
1993-Y12	2449119.19	1993 May 11 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-Y13	2449119.31	1993 May 11 1930:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1993-W22	2449121.10	1993 May 13 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1993-Y14	2449128.07	1993 May 20 1344:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	84	-	-
1993-W24	2449129.08	1993 May 21 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	57	-	-
1993-W26	2449133.99	1993 May 26 1145:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	54	-	-
1993-W27	2449135.08	1993 May 27 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1993-Y15	2449139.97	1993 Jun 1 1123:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-W30	2449157.11	1993 Jun 18 1440:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1993-W31	2449164.08	1993 Jun 25 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	71	-	-
1993-Y16	2449171.11	1993 Jul 2 1437:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	85	-	-
1993-Y17	2449171.61	1993 Jul 3 0243:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	85	-	-
1993-Y18	2449175.36	1993 Jul 6 2045:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-W33	2449176.45	1993 Jul 7 2249:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	70	-	-
1993-W34	2449181.31	1993 Jul 12 1925:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1993-Y19	2449183.11	1993 Jul 14 1437:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-W36	2449185.08	1993 Jul 16 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	68	-	-
1993-W37	2449192.09	1993 Jul 23 1410:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	69	-	-
1993-Y20	2449203.29	1993 Aug 3 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-W39	2449211.17	1993 Aug 11 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	70	-	-
1993-Y21	2449220.06	1993 Aug 20 1324:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-Y22	2449224.97	1993 Aug 25 1111:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KMR	-	-	-	90	-	-
1993-W41	2449226.31	1993 Aug 26 1919:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1993-W43	2449232.10	1993 Sep 1 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1993-W44	2449241.08	1993 Sep 10 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	74	-	-
1993-Y24	2449246.23	1993 Sep 15 1735:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-Y25	2449247.12	1993 Sep 16 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1993-Y26	2449262.22	1993 Oct 1 1713:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-W48	2449274.08	1993 Oct 13 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	66	-	-
1993-Y27	2449274.11	1993 Oct 13 1435:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-W50	2449278.07	1993 Oct 17 1338:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	56	-	-
1993-Y28	2449310.43	1993 Nov 18 2219:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	84	-	-
1993-W55	2449310.50	1993 Nov 18 2355:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1993-W56	2449321.16	1993 Nov 29 1545:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	54	-	-
1993-Y29	2449336.17	1993 Dec 14 1604:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	93	-	-
1993-Y30	2449339.26	1993 Dec 17 1812:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1993-Y31	2449342.19	1993 Dec 20 1634:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-
1995-Y01	2449742.17	1995 Jan 24 1609:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1995-Y02	2450059.49	1995 Dec 7 2345:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	99	-	-
1996-W01	2450092.29	1996 Jan 9 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	73	-	-
1996-W04	2450101.06	1996 Jan 18 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	71	-	-
1996-W06	2450113.29	1996 Jan 30 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	61	-	-
1996-Y02	2450428.27	1996 Dec 10 1831:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	92	-	-
1996-W12	2450437.14	1996 Dec 19 1520:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	53	-	-
1997-W02	2450459.17	1997 Jan 10 1559:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1997-Y03	2450489.12	1997 Feb 9 1449:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-A06	2450500.48	1997 Feb 20 2330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	49	-	-
1997-W09	2450507.12	1997 Feb 27 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1997-Y04	2450527.12	1997 Mar 19 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-W13	2450541.12	1997 Apr 2 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1997-W14	2450547.39	1997 Apr 8 2114:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1997-A28	2450549.07	1997 Apr 10 1340:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	45	-	-
1997-W16	2450550.08	1997 Apr 11 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	60	-	-
1997-W18	2450561.26	1997 Apr 22 1815:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1997-W20	2450582.08	1997 May 13 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1997-W23	2450598.11	1997 May 29 1440:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	58	-	-
1997-Y05	2450606.09	1997 Jun 6 1403:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-W26	2450619.08	1997 Jun 19 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	65	-	-
1997-W28	2450630.08	1997 Jun 30 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	55	-	-
1997-A30	2450633.06	1997 Jul 3 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	42	-	-
1997-W30	2450641.24	1997 Jul 11 1744:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	63	-	-
1997-W32	2450645.06	1997 Jul 15 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	54	-	-
1997-Y06	2450659.04	1997 Jul 29 1259:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-W35	2450661.45	1997 Jul 31 2249:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	59	-	-
1997-W38	2450666.43	1997 Aug 5 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	60	-	-
1997-W43	2450667.05	1997 Aug 6 1314:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1997-W44	2450667.42	1997 Aug 6 2204:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	66	-	-
1997-W45	2450667.45	1997 Aug 6 2249:59	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	57	-	-
1997-Y07	2450669.05	1997 Aug 8 1318:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	96	-	-
1997-Y11	2450670.90	1997 Aug 10 0935:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	95	-	-
1997-W51	2450671.39	1997 Aug 10 2122:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1997-Y14	2450671.40	1997 Aug 10 2131:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	94	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-A32	2450673.06	1997 Aug 12 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	33	-	-
1997-W64	2450683.34	1997 Aug 22 2010:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1997-W66	2450688.31	1997 Aug 27 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	WI	-	-	-	54	-	-
1997-W71	2450704.06	1997 Sep 12 1330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	64	-	-
1997-Y31	2450716.08	1997 Sep 24 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-Y32	2450731.08	1997 Oct 9 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	99	-	-
1997-W75	2450732.05	1997 Oct 10 1306:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	59	-	-
1997-Y33	2450732.43	1997 Oct 10 2224:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	99	-	-
1997-Y34	2450743.12	1997 Oct 21 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	83	-	-
1997-Y35	2450771.12	1997 Nov 18 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1997-A56	2450801.47	1997 Dec 18 2315:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	49	-	-
1998-Y10	2450835.09	1998 Jan 21 1408:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1998-W05	2450855.48	1998 Feb 10 2330:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	60	-	-
1998-W08	2450869.12	1998 Feb 24 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	62	-	-
1998-Y28	2450878.12	1998 Mar 5 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1998-Y29	2450900.12	1998 Mar 27 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	82	-	-
1998-W13	2450919.08	1998 Apr 15 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	58	-	-
1998-Y30	2450939.08	1998 May 5 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1998-W19	2450966.08	1998 Jun 1 1400:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	67	-	-
1998-Y31	2451025.08	1998 Jul 30 1400:00	Rocketsonde	-	-	Met Sphere	-	-	-	CCA	LC47	-	-	84	-	-
1998-W35	2451102.09	1998 Oct 15 1412:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	64	-	-
1998-Y32	2451109.39	1998 Oct 22 2121:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1998-Y33	2451109.54	1998 Oct 23 0101:59	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
1998-Y34	2451169.19	1998 Dec 21 1630:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	85	-	-
1999-W01	2451194.10	1999 Jan 15 1430:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	55	-	-
1999-W02	2451219.43	1999 Feb 9 2214:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	72	-	-
1999-W03	2451262.61	1999 Mar 25 0245:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	69	-	-
1999-Y01	2451346.21	1999 Jun 16 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CCA	LC47	-	-	84	-	-
1999-Y02	2451466.12	1999 Oct 14 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	99	-	-
1999-Y04	2451522.12	1999 Dec 9 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-
2000-Y01	2451601.51	2000 Feb 27 0014:59	Rocketsonde	-	-	Datasonde	-	-	-	ASC	-	-	-	99	-	-
2000-Y02	2451711.12	2000 Jun 15 1500:00	Rocketsonde	-	-	Datasonde	-	-	-	CCA	LC47	-	-	99	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W08	2440224.12	1969 Jan 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A03	2440224.13	1969 Jan 2 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W09	2440224.24	1969 Jan 2 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A04	2440224.26	1969 Jan 2 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W10	2440225.11	1969 Jan 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W11	2440225.11	1969 Jan 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W12	2440225.12	1969 Jan 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W13	2440225.17	1969 Jan 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A05	2440225.27	1969 Jan 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W14	2440225.29	1969 Jan 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W15	2440225.35	1969 Jan 3 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W16	2440225.37	1969 Jan 3 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W17	2440225.46	1969 Jan 3 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W22	2440228.11	1969 Jan 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W23	2440228.13	1969 Jan 6 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W24	2440228.14	1969 Jan 6 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W25	2440228.18	1969 Jan 6 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W26	2440228.29	1969 Jan 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W27	2440228.37	1969 Jan 6 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W28	2440229.18	1969 Jan 7 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y13	2440229.23	1969 Jan 7 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W30	2440229.28	1969 Jan 7 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W32	2440230.10	1969 Jan 8 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W33	2440230.11	1969 Jan 8 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W34	2440230.15	1969 Jan 8 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W35	2440230.17	1969 Jan 8 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W36	2440230.23	1969 Jan 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A08	2440230.34	1969 Jan 8 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A10	2440231.14	1969 Jan 9 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W39	2440231.22	1969 Jan 9 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A11	2440231.25	1969 Jan 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W41	2440231.29	1969 Jan 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W42	2440231.32	1969 Jan 9 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y16	2440231.54	1969 Jan 10 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A12	2440232.07	1969 Jan 10 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W43	2440232.11	1969 Jan 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A13	2440232.12	1969 Jan 10 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W44	2440232.12	1969 Jan 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W45	2440232.17	1969 Jan 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W46	2440232.22	1969 Jan 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W48	2440232.27	1969 Jan 10 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W49	2440232.27	1969 Jan 10 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W50	2440232.27	1969 Jan 10 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W51	2440232.29	1969 Jan 10 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W52	2440232.32	1969 Jan 10 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W53	2440232.34	1969 Jan 10 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W54	2440232.34	1969 Jan 10 2011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W55	2440232.35	1969 Jan 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W56	2440232.36	1969 Jan 10 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W58	2440235.12	1969 Jan 13 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W59	2440235.13	1969 Jan 13 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W60	2440235.19	1969 Jan 13 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W61	2440235.23	1969 Jan 13 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W63	2440235.29	1969 Jan 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W64	2440235.30	1969 Jan 13 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W65	2440235.33	1969 Jan 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A14	2440236.12	1969 Jan 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W66	2440236.12	1969 Jan 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W67	2440236.13	1969 Jan 14 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W68	2440236.15	1969 Jan 14 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W69	2440236.19	1969 Jan 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W70	2440236.21	1969 Jan 14 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W72	2440237.11	1969 Jan 15 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W73	2440237.11	1969 Jan 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W74	2440237.12	1969 Jan 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W75	2440237.17	1969 Jan 15 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A15	2440237.19	1969 Jan 15 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W76	2440237.19	1969 Jan 15 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W77	2440237.20	1969 Jan 15 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A16	2440237.23	1969 Jan 15 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A17	2440237.25	1969 Jan 15 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W79	2440237.33	1969 Jan 15 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W80	2440237.33	1969 Jan 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W81	2440237.34	1969 Jan 15 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W82	2440237.44	1969 Jan 15 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W83	2440238.12	1969 Jan 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W84	2440238.36	1969 Jan 16 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W85	2440238.49	1969 Jan 16 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W86	2440238.53	1969 Jan 17 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W87	2440238.65	1969 Jan 17 0334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W88	2440238.77	1969 Jan 17 0634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W89	2440238.79	1969 Jan 17 0655:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W90	2440238.80	1969 Jan 17 0714:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A20	2440239.09	1969 Jan 17 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W91	2440239.11	1969 Jan 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A21	2440239.12	1969 Jan 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W92	2440239.17	1969 Jan 17 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W93	2440239.19	1969 Jan 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W94	2440239.23	1969 Jan 17 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W95	2440239.27	1969 Jan 17 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W97	2440239.33	1969 Jan 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W98	2440239.37	1969 Jan 17 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A23	2440239.42	1969 Jan 17 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W99	2440239.45	1969 Jan 17 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W102	2440242.11	1969 Jan 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A24	2440242.12	1969 Jan 20 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W103	2440242.15	1969 Jan 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W104	2440242.16	1969 Jan 20 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A25	2440242.25	1969 Jan 20 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W106	2440242.29	1969 Jan 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W108	2440242.35	1969 Jan 20 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W110	2440242.38	1969 Jan 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W113	2440243.21	1969 Jan 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W114	2440243.25	1969 Jan 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W115	2440243.29	1969 Jan 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A27	2440243.38	1969 Jan 21 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A28	2440243.41	1969 Jan 21 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W120	2440244.10	1969 Jan 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W121	2440244.11	1969 Jan 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W122	2440244.12	1969 Jan 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W123	2440244.17	1969 Jan 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W125	2440244.24	1969 Jan 22 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W126	2440244.31	1969 Jan 22 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W127	2440244.33	1969 Jan 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W130	2440245.12	1969 Jan 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A29	2440245.27	1969 Jan 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W132	2440245.31	1969 Jan 23 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A30	2440245.40	1969 Jan 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W133	2440245.49	1969 Jan 23 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W134	2440245.61	1969 Jan 24 0233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W136	2440246.10	1969 Jan 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W137	2440246.11	1969 Jan 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A31	2440246.13	1969 Jan 24 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W138	2440246.15	1969 Jan 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W140	2440246.25	1969 Jan 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A32	2440246.26	1969 Jan 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A33	2440246.28	1969 Jan 24 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W141	2440246.33	1969 Jan 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W142	2440246.34	1969 Jan 24 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W143	2440246.36	1969 Jan 24 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W144	2440249.11	1969 Jan 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W145	2440249.12	1969 Jan 27 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W146	2440249.12	1969 Jan 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W147	2440249.24	1969 Jan 27 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W148	2440249.29	1969 Jan 27 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W149	2440249.33	1969 Jan 27 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W150	2440249.37	1969 Jan 27 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W153	2440250.12	1969 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W154	2440250.21	1969 Jan 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A36	2440250.40	1969 Jan 28 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W156	2440251.11	1969 Jan 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W157	2440251.12	1969 Jan 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W158	2440251.14	1969 Jan 29 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W159	2440251.17	1969 Jan 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W161	2440251.25	1969 Jan 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W162	2440251.28	1969 Jan 29 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W163	2440251.29	1969 Jan 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W164	2440251.31	1969 Jan 29 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W165	2440251.32	1969 Jan 29 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W166	2440251.33	1969 Jan 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W167	2440251.34	1969 Jan 29 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W168	2440251.36	1969 Jan 29 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W169	2440251.36	1969 Jan 29 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W170	2440251.36	1969 Jan 29 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W171	2440251.66	1969 Jan 30 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A38	2440252.12	1969 Jan 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W173	2440252.35	1969 Jan 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W175	2440252.42	1969 Jan 30 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W178	2440252.67	1969 Jan 31 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W179	2440253.11	1969 Jan 31 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W180	2440253.11	1969 Jan 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W181	2440253.14	1969 Jan 31 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W182	2440253.25	1969 Jan 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W184	2440253.27	1969 Jan 31 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W185	2440253.33	1969 Jan 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W186	2440253.37	1969 Jan 31 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W187	2440253.49	1969 Jan 31 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W188	2440254.33	1969 Feb 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W189	2440255.35	1969 Feb 2 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W190	2440256.09	1969 Feb 3 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W191	2440256.11	1969 Feb 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W192	2440256.12	1969 Feb 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W193	2440256.22	1969 Feb 3 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W194	2440256.29	1969 Feb 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W195	2440256.33	1969 Feb 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W196	2440256.36	1969 Feb 3 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W197	2440256.38	1969 Feb 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W198	2440256.45	1969 Feb 3 2245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A41	2440257.12	1969 Feb 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W199	2440257.29	1969 Feb 4 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W200	2440257.29	1969 Feb 4 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W201	2440257.33	1969 Feb 4 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W202	2440257.33	1969 Feb 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W203	2440257.36	1969 Feb 4 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W204	2440257.45	1969 Feb 4 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W205	2440258.07	1969 Feb 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W206	2440258.11	1969 Feb 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W207	2440258.12	1969 Feb 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W208	2440258.24	1969 Feb 5 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W209	2440258.29	1969 Feb 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W210	2440258.30	1969 Feb 5 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W211	2440258.34	1969 Feb 5 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W212	2440258.38	1969 Feb 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W213	2440258.40	1969 Feb 5 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W214	2440258.43	1969 Feb 5 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W216	2440259.11	1969 Feb 6 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W218	2440259.29	1969 Feb 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W219	2440259.33	1969 Feb 6 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W220	2440259.33	1969 Feb 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W221	2440259.41	1969 Feb 6 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W222	2440260.08	1969 Feb 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W223	2440260.12	1969 Feb 7 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W224	2440260.12	1969 Feb 7 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W225	2440260.17	1969 Feb 7 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W226	2440260.34	1969 Feb 7 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W227	2440260.38	1969 Feb 7 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W228	2440260.40	1969 Feb 7 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W229	2440260.47	1969 Feb 7 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W231	2440263.09	1969 Feb 10 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W232	2440263.11	1969 Feb 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W233	2440263.12	1969 Feb 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W234	2440263.29	1969 Feb 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W235	2440263.31	1969 Feb 10 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W236	2440263.33	1969 Feb 10 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W237	2440263.34	1969 Feb 10 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W238	2440263.36	1969 Feb 10 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W239	2440264.23	1969 Feb 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W240	2440264.28	1969 Feb 11 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W241	2440264.31	1969 Feb 11 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W242	2440264.52	1969 Feb 12 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W243	2440265.09	1969 Feb 12 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W244	2440265.11	1969 Feb 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W245	2440265.14	1969 Feb 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W246	2440265.17	1969 Feb 12 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W247	2440265.19	1969 Feb 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W248	2440265.27	1969 Feb 12 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W249	2440265.28	1969 Feb 12 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W250	2440265.38	1969 Feb 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W251	2440265.38	1969 Feb 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W252	2440265.40	1969 Feb 12 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W253	2440266.12	1969 Feb 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W254	2440266.35	1969 Feb 13 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W255	2440266.36	1969 Feb 13 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W256	2440266.37	1969 Feb 13 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W257	2440266.39	1969 Feb 13 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W258	2440266.62	1969 Feb 14 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W259	2440266.66	1969 Feb 14 0349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W260	2440266.67	1969 Feb 14 0409:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W261	2440267.14	1969 Feb 14 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W262	2440267.19	1969 Feb 14 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W263	2440267.21	1969 Feb 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W264	2440267.25	1969 Feb 14 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A44	2440267.27	1969 Feb 14 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W265	2440267.28	1969 Feb 14 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W266	2440267.29	1969 Feb 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W267	2440267.33	1969 Feb 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W268	2440267.38	1969 Feb 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W270	2440270.11	1969 Feb 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W271	2440270.15	1969 Feb 17 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W272	2440270.17	1969 Feb 17 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W273	2440270.21	1969 Feb 17 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W274	2440270.29	1969 Feb 17 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W275	2440270.29	1969 Feb 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W276	2440270.36	1969 Feb 17 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W277	2440270.37	1969 Feb 17 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W278	2440271.21	1969 Feb 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W279	2440271.39	1969 Feb 18 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W281	2440272.07	1969 Feb 19 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W282	2440272.11	1969 Feb 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W283	2440272.15	1969 Feb 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W284	2440272.19	1969 Feb 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W285	2440272.19	1969 Feb 19 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W286	2440272.26	1969 Feb 19 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W287	2440272.27	1969 Feb 19 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W288	2440272.28	1969 Feb 19 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W290	2440273.17	1969 Feb 20 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W291	2440273.29	1969 Feb 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W292	2440273.30	1969 Feb 20 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W293	2440273.33	1969 Feb 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W294	2440273.35	1969 Feb 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W295	2440273.40	1969 Feb 20 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W297	2440274.25	1969 Feb 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W298	2440277.11	1969 Feb 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W299	2440277.12	1969 Feb 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W300	2440277.25	1969 Feb 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W301	2440277.29	1969 Feb 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W302	2440277.34	1969 Feb 24 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W303	2440277.37	1969 Feb 24 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W304	2440278.13	1969 Feb 25 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W305	2440278.40	1969 Feb 25 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W306	2440279.15	1969 Feb 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W307	2440279.22	1969 Feb 26 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W308	2440279.25	1969 Feb 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W309	2440279.33	1969 Feb 26 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W311	2440280.12	1969 Feb 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W312	2440280.32	1969 Feb 27 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W313	2440280.41	1969 Feb 27 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W314	2440281.11	1969 Feb 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W315	2440281.12	1969 Feb 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W316	2440281.12	1969 Feb 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W317	2440281.25	1969 Feb 28 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W318	2440281.31	1969 Feb 28 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W319	2440281.31	1969 Feb 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W320	2440281.33	1969 Feb 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W321	2440281.34	1969 Feb 28 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W322	2440281.39	1969 Feb 28 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W324	2440282.09	1969 Mar 1 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W325	2440283.09	1969 Mar 2 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W326	2440284.11	1969 Mar 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W327	2440284.17	1969 Mar 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W328	2440284.18	1969 Mar 3 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W329	2440284.23	1969 Mar 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W330	2440284.25	1969 Mar 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W331	2440284.25	1969 Mar 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y103	2440284.27	1969 Mar 3 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W332	2440284.33	1969 Mar 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W333	2440284.36	1969 Mar 3 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W335	2440285.38	1969 Mar 4 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W336	2440285.39	1969 Mar 4 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W337	2440286.11	1969 Mar 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W338	2440286.13	1969 Mar 5 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W339	2440286.19	1969 Mar 5 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W340	2440286.23	1969 Mar 5 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W341	2440286.25	1969 Mar 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W342	2440286.31	1969 Mar 5 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W343	2440286.33	1969 Mar 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W344	2440286.36	1969 Mar 5 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W345	2440286.38	1969 Mar 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W347	2440287.33	1969 Mar 6 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W348	2440287.38	1969 Mar 6 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W350	2440288.11	1969 Mar 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W351	2440288.13	1969 Mar 7 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W352	2440288.21	1969 Mar 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W353	2440288.23	1969 Mar 7 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W354	2440288.23	1969 Mar 7 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W355	2440288.27	1969 Mar 7 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W356	2440288.31	1969 Mar 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W357	2440288.33	1969 Mar 7 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W358	2440288.37	1969 Mar 7 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W359	2440291.09	1969 Mar 10 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W360	2440291.11	1969 Mar 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W361	2440291.12	1969 Mar 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W362	2440291.17	1969 Mar 10 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W363	2440291.22	1969 Mar 10 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W364	2440291.25	1969 Mar 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W365	2440291.33	1969 Mar 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W366	2440291.34	1969 Mar 10 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W367	2440291.37	1969 Mar 10 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W368	2440291.40	1969 Mar 10 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W370	2440292.35	1969 Mar 11 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W371	2440292.40	1969 Mar 11 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W372	2440293.11	1969 Mar 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W373	2440293.14	1969 Mar 12 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W374	2440293.15	1969 Mar 12 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W375	2440293.16	1969 Mar 12 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A46	2440293.18	1969 Mar 12 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W376	2440293.20	1969 Mar 12 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W377	2440293.25	1969 Mar 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A47	2440293.25	1969 Mar 12 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W378	2440293.26	1969 Mar 12 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W379	2440293.30	1969 Mar 12 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W380	2440293.33	1969 Mar 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W381	2440293.37	1969 Mar 12 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W382	2440293.37	1969 Mar 12 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W383	2440293.43	1969 Mar 12 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y104	2440294.16	1969 Mar 13 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W385	2440294.25	1969 Mar 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W386	2440294.30	1969 Mar 13 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A48	2440294.33	1969 Mar 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W387	2440294.37	1969 Mar 13 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W388	2440294.38	1969 Mar 13 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W390	2440294.97	1969 Mar 14 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W391	2440295.11	1969 Mar 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W392	2440295.11	1969 Mar 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W393	2440295.12	1969 Mar 14 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A49	2440295.18	1969 Mar 14 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A50	2440295.24	1969 Mar 14 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W394	2440295.26	1969 Mar 14 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W395	2440295.30	1969 Mar 14 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W396	2440295.33	1969 Mar 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W397	2440295.33	1969 Mar 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W398	2440295.37	1969 Mar 14 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W400	2440298.09	1969 Mar 17 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W401	2440298.12	1969 Mar 17 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W402	2440298.12	1969 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W403	2440298.16	1969 Mar 17 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W404	2440298.25	1969 Mar 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W405	2440298.28	1969 Mar 17 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W406	2440298.29	1969 Mar 17 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W407	2440298.35	1969 Mar 17 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W408	2440298.35	1969 Mar 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W409	2440299.21	1969 Mar 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W410	2440299.27	1969 Mar 18 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W411	2440299.41	1969 Mar 18 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W412	2440300.11	1969 Mar 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W413	2440300.13	1969 Mar 19 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W414	2440300.17	1969 Mar 19 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W415	2440300.23	1969 Mar 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W416	2440300.25	1969 Mar 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W417	2440300.26	1969 Mar 19 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W418	2440300.26	1969 Mar 19 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W419	2440300.27	1969 Mar 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W420	2440300.28	1969 Mar 19 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W422	2440300.34	1969 Mar 19 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W423	2440300.38	1969 Mar 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W424	2440301.14	1969 Mar 20 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W425	2440301.36	1969 Mar 20 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W426	2440301.40	1969 Mar 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W427	2440301.48	1969 Mar 20 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W429	2440302.11	1969 Mar 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W430	2440302.12	1969 Mar 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W431	2440302.13	1969 Mar 21 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A53	2440302.13	1969 Mar 21 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W432	2440302.28	1969 Mar 21 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W433	2440302.37	1969 Mar 21 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W435	2440305.09	1969 Mar 24 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W436	2440305.11	1969 Mar 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W437	2440305.12	1969 Mar 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W438	2440305.13	1969 Mar 24 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W439	2440305.25	1969 Mar 24 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W440	2440305.29	1969 Mar 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W441	2440305.33	1969 Mar 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W443	2440306.39	1969 Mar 25 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W444	2440306.40	1969 Mar 25 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W445	2440307.11	1969 Mar 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W446	2440307.12	1969 Mar 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W447	2440307.23	1969 Mar 26 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W448	2440307.25	1969 Mar 26 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W449	2440307.33	1969 Mar 26 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W450	2440307.34	1969 Mar 26 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W451	2440307.39	1969 Mar 26 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W452	2440307.45	1969 Mar 26 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W454	2440307.65	1969 Mar 27 0332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W455	2440308.19	1969 Mar 27 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W456	2440308.39	1969 Mar 27 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W458	2440308.69	1969 Mar 28 0436:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W459	2440308.73	1969 Mar 28 0537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W460	2440308.85	1969 Mar 28 0824:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W461	2440309.11	1969 Mar 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W462	2440309.12	1969 Mar 28 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W463	2440309.18	1969 Mar 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W464	2440309.27	1969 Mar 28 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W465	2440309.27	1969 Mar 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W466	2440309.28	1969 Mar 28 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W467	2440309.29	1969 Mar 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W468	2440309.33	1969 Mar 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W469	2440309.41	1969 Mar 28 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W471	2440309.70	1969 Mar 29 0442:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W474	2440312.09	1969 Mar 31 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W476	2440313.10	1969 Apr 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W477	2440313.29	1969 Apr 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W478	2440314.12	1969 Apr 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W479	2440314.15	1969 Apr 2 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W480	2440314.16	1969 Apr 2 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W481	2440314.17	1969 Apr 2 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W482	2440314.19	1969 Apr 2 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W483	2440314.25	1969 Apr 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W484	2440314.31	1969 Apr 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W485	2440314.35	1969 Apr 2 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W486	2440314.36	1969 Apr 2 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W487	2440315.08	1969 Apr 3 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W488	2440315.26	1969 Apr 3 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W489	2440315.40	1969 Apr 3 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W490	2440316.10	1969 Apr 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W491	2440316.11	1969 Apr 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W492	2440316.12	1969 Apr 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W493	2440316.19	1969 Apr 4 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W494	2440316.21	1969 Apr 4 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W495	2440316.22	1969 Apr 4 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W496	2440316.34	1969 Apr 4 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W497	2440319.09	1969 Apr 7 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W498	2440319.12	1969 Apr 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W499	2440319.12	1969 Apr 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W500	2440319.17	1969 Apr 7 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W501	2440319.17	1969 Apr 7 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W502	2440319.29	1969 Apr 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A57	2440319.36	1969 Apr 7 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W503	2440319.36	1969 Apr 7 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W504	2440319.38	1969 Apr 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W505	2440320.08	1969 Apr 8 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W506	2440320.27	1969 Apr 8 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W507	2440320.29	1969 Apr 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W508	2440321.11	1969 Apr 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W509	2440321.11	1969 Apr 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W510	2440321.12	1969 Apr 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W511	2440321.13	1969 Apr 9 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W512	2440321.19	1969 Apr 9 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W513	2440321.24	1969 Apr 9 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W514	2440321.25	1969 Apr 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W515	2440321.27	1969 Apr 9 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W516	2440321.36	1969 Apr 9 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W517	2440321.37	1969 Apr 9 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W518	2440321.46	1969 Apr 9 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W520	2440322.12	1969 Apr 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W521	2440322.19	1969 Apr 10 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W522	2440322.23	1969 Apr 10 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W523	2440322.90	1969 Apr 11 0934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W524	2440323.11	1969 Apr 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W525	2440323.12	1969 Apr 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W526	2440323.17	1969 Apr 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W527	2440323.17	1969 Apr 11 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W528	2440323.23	1969 Apr 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W529	2440323.26	1969 Apr 11 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W530	2440323.27	1969 Apr 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W531	2440323.33	1969 Apr 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W532	2440323.36	1969 Apr 11 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W535	2440326.12	1969 Apr 14 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W536	2440326.20	1969 Apr 14 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W537	2440326.22	1969 Apr 14 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W538	2440326.25	1969 Apr 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W539	2440326.28	1969 Apr 14 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W540	2440326.32	1969 Apr 14 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W541	2440326.33	1969 Apr 14 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W542	2440326.42	1969 Apr 14 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W544	2440327.12	1969 Apr 15 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W545	2440327.18	1969 Apr 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A60	2440327.39	1969 Apr 15 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W546	2440327.42	1969 Apr 15 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W548	2440328.09	1969 Apr 16 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W549	2440328.11	1969 Apr 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W550	2440328.12	1969 Apr 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W551	2440328.13	1969 Apr 16 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W552	2440328.18	1969 Apr 16 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W553	2440328.18	1969 Apr 16 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W554	2440328.21	1969 Apr 16 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W555	2440328.29	1969 Apr 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W556	2440328.33	1969 Apr 16 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W557	2440328.39	1969 Apr 16 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W558	2440328.42	1969 Apr 16 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W559	2440328.42	1969 Apr 16 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W560	2440329.19	1969 Apr 17 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W561	2440329.23	1969 Apr 17 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W562	2440329.34	1969 Apr 17 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W563	2440330.08	1969 Apr 18 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W564	2440330.11	1969 Apr 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W565	2440330.12	1969 Apr 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A62	2440330.13	1969 Apr 18 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W566	2440330.20	1969 Apr 18 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W567	2440330.26	1969 Apr 18 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W568	2440330.29	1969 Apr 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W569	2440330.33	1969 Apr 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A63	2440330.54	1969 Apr 19 0052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W571	2440333.11	1969 Apr 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W572	2440333.11	1969 Apr 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W573	2440333.12	1969 Apr 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W574	2440333.25	1969 Apr 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W575	2440333.31	1969 Apr 21 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W576	2440333.32	1969 Apr 21 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W577	2440333.34	1969 Apr 21 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W578	2440333.34	1969 Apr 21 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W579	2440333.37	1969 Apr 21 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W580	2440333.38	1969 Apr 21 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W581	2440333.39	1969 Apr 21 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A66	2440334.39	1969 Apr 22 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W583	2440334.42	1969 Apr 22 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W584	2440334.55	1969 Apr 23 0111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W585	2440335.11	1969 Apr 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W586	2440335.12	1969 Apr 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W587	2440335.17	1969 Apr 23 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W588	2440335.17	1969 Apr 23 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W589	2440335.19	1969 Apr 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W590	2440335.24	1969 Apr 23 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W591	2440335.25	1969 Apr 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W592	2440335.27	1969 Apr 23 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W593	2440335.40	1969 Apr 23 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W595	2440336.39	1969 Apr 24 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W596	2440337.11	1969 Apr 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W597	2440337.12	1969 Apr 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W598	2440337.15	1969 Apr 25 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W599	2440337.21	1969 Apr 25 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W600	2440337.21	1969 Apr 25 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W601	2440337.23	1969 Apr 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W602	2440337.48	1969 Apr 25 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W604	2440338.65	1969 Apr 27 0340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W605	2440338.67	1969 Apr 27 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W606	2440338.69	1969 Apr 27 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W607	2440338.71	1969 Apr 27 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W608	2440338.74	1969 Apr 27 0549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W609	2440338.75	1969 Apr 27 0553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W610	2440338.77	1969 Apr 27 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W611	2440340.09	1969 Apr 28 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W612	2440340.11	1969 Apr 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W613	2440340.25	1969 Apr 28 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W614	2440340.29	1969 Apr 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W615	2440340.38	1969 Apr 28 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W616	2440340.42	1969 Apr 28 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W617	2440341.16	1969 Apr 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W618	2440341.17	1969 Apr 29 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W619	2440341.21	1969 Apr 29 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W620	2440341.25	1969 Apr 29 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W621	2440341.27	1969 Apr 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A69	2440341.28	1969 Apr 29 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A71	2440341.39	1969 Apr 29 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W623	2440342.08	1969 Apr 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W624	2440342.11	1969 Apr 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W625	2440342.11	1969 Apr 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W626	2440342.17	1969 Apr 30 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W627	2440342.19	1969 Apr 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W628	2440342.25	1969 Apr 30 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W629	2440342.30	1969 Apr 30 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W630	2440342.38	1969 Apr 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W631	2440343.12	1969 May 1 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W632	2440343.21	1969 May 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W633	2440343.21	1969 May 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W634	2440343.40	1969 May 1 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W635	2440343.49	1969 May 1 2343:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A74	2440344.08	1969 May 2 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W636	2440344.08	1969 May 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W637	2440344.10	1969 May 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W638	2440344.12	1969 May 2 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W639	2440344.14	1969 May 2 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W641	2440344.25	1969 May 2 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W642	2440344.27	1969 May 2 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W643	2440344.27	1969 May 2 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A75	2440344.27	1969 May 2 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W644	2440344.29	1969 May 2 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W645	2440344.29	1969 May 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W646	2440344.30	1969 May 2 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A76	2440344.31	1969 May 2 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W647	2440344.32	1969 May 2 1945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A77	2440344.40	1969 May 2 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W648	2440347.08	1969 May 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W649	2440347.11	1969 May 5 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W650	2440347.21	1969 May 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W651	2440347.23	1969 May 5 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W652	2440347.28	1969 May 5 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W653	2440347.32	1969 May 5 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W654	2440347.33	1969 May 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W655	2440347.38	1969 May 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W656	2440348.12	1969 May 6 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W657	2440348.25	1969 May 6 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W658	2440348.39	1969 May 6 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W659	2440349.12	1969 May 7 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W660	2440349.12	1969 May 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W662	2440349.19	1969 May 7 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W663	2440349.21	1969 May 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W664	2440349.23	1969 May 7 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A79	2440349.24	1969 May 7 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W665	2440349.25	1969 May 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W666	2440349.25	1969 May 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W667	2440349.26	1969 May 7 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W668	2440349.38	1969 May 7 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W670	2440350.10	1969 May 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W671	2440350.25	1969 May 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W672	2440350.31	1969 May 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W673	2440350.38	1969 May 8 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W674	2440351.11	1969 May 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W676	2440351.29	1969 May 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W678	2440351.32	1969 May 9 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W679	2440351.40	1969 May 9 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W681	2440351.72	1969 May 10 0513:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W682	2440352.55	1969 May 11 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W683	2440352.65	1969 May 11 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W684	2440352.67	1969 May 11 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W685	2440352.69	1969 May 11 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W686	2440352.69	1969 May 11 0432:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W687	2440352.71	1969 May 11 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W688	2440352.73	1969 May 11 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W689	2440352.75	1969 May 11 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W690	2440352.77	1969 May 11 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W691	2440352.77	1969 May 11 0633:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A80	2440354.05	1969 May 12 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W692	2440354.08	1969 May 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W694	2440354.22	1969 May 12 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W695	2440354.29	1969 May 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W696	2440354.29	1969 May 12 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W697	2440354.30	1969 May 12 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W698	2440354.40	1969 May 12 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W699	2440355.14	1969 May 13 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W700	2440355.15	1969 May 13 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W702	2440355.22	1969 May 13 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W703	2440355.22	1969 May 13 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A82	2440355.38	1969 May 13 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W705	2440355.96	1969 May 14 1106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W706	2440356.08	1969 May 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W707	2440356.09	1969 May 14 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y138	2440356.17	1969 May 14 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W708	2440356.19	1969 May 14 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A83	2440356.19	1969 May 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W709	2440356.25	1969 May 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W710	2440356.29	1969 May 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A84	2440357.08	1969 May 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W711	2440357.12	1969 May 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W712	2440357.13	1969 May 15 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A85	2440357.36	1969 May 15 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W713	2440357.42	1969 May 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W714	2440357.42	1969 May 15 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W715	2440357.42	1969 May 15 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W716	2440358.11	1969 May 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W717	2440358.12	1969 May 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W718	2440358.19	1969 May 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W719	2440358.25	1969 May 16 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W721	2440358.31	1969 May 16 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W722	2440358.36	1969 May 16 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W723	2440358.40	1969 May 16 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W724	2440359.05	1969 May 17 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W725	2440360.31	1969 May 18 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y139	2440360.35	1969 May 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W727	2440361.08	1969 May 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W728	2440361.11	1969 May 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W729	2440361.15	1969 May 19 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W730	2440361.21	1969 May 19 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W731	2440361.42	1969 May 19 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W732	2440362.26	1969 May 20 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A86	2440362.35	1969 May 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W733	2440362.42	1969 May 20 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A88	2440363.08	1969 May 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W734	2440363.11	1969 May 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W735	2440363.13	1969 May 21 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W736	2440363.13	1969 May 21 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W737	2440363.19	1969 May 21 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W738	2440363.25	1969 May 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W739	2440363.29	1969 May 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W740	2440363.36	1969 May 21 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W741	2440363.42	1969 May 21 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W743	2440364.25	1969 May 22 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W744	2440364.25	1969 May 22 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W745	2440364.28	1969 May 22 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W746	2440364.29	1969 May 22 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A89	2440364.38	1969 May 22 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W747	2440365.10	1969 May 23 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W748	2440365.10	1969 May 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W749	2440365.11	1969 May 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W750	2440365.16	1969 May 23 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W751	2440365.23	1969 May 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W752	2440365.24	1969 May 23 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W753	2440365.27	1969 May 23 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W755	2440365.35	1969 May 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W756	2440365.38	1969 May 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W757	2440366.50	1969 May 24 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W758	2440368.08	1969 May 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W759	2440368.12	1969 May 26 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W760	2440368.21	1969 May 26 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W761	2440368.25	1969 May 26 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W762	2440368.29	1969 May 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W763	2440368.42	1969 May 26 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W765	2440369.29	1969 May 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A91	2440369.35	1969 May 27 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W766	2440370.09	1969 May 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W767	2440370.11	1969 May 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A92	2440370.17	1969 May 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W768	2440370.20	1969 May 28 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W769	2440370.20	1969 May 28 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W770	2440370.21	1969 May 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W771	2440370.25	1969 May 28 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W772	2440370.27	1969 May 28 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W773	2440370.31	1969 May 28 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W774	2440370.38	1969 May 28 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W775	2440371.12	1969 May 29 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W776	2440371.12	1969 May 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W777	2440371.17	1969 May 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W778	2440371.19	1969 May 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W779	2440371.25	1969 May 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W780	2440371.29	1969 May 29 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A93	2440371.39	1969 May 29 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W781	2440372.13	1969 May 30 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W782	2440372.26	1969 May 30 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W785	2440375.13	1969 Jun 2 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W786	2440375.18	1969 Jun 2 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W787	2440375.29	1969 Jun 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W788	2440375.35	1969 Jun 2 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W789	2440375.38	1969 Jun 2 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A95	2440376.38	1969 Jun 3 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W790	2440377.02	1969 Jun 4 1226:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W791	2440377.08	1969 Jun 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W792	2440377.12	1969 Jun 4 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W795	2440377.25	1969 Jun 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W796	2440377.27	1969 Jun 4 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W797	2440377.43	1969 Jun 4 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W798	2440378.23	1969 Jun 5 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A97	2440378.38	1969 Jun 5 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W799	2440378.71	1969 Jun 6 0504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W800	2440378.79	1969 Jun 6 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W801	2440379.11	1969 Jun 6 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W802	2440379.18	1969 Jun 6 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W804	2440379.23	1969 Jun 6 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W805	2440379.33	1969 Jun 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W806	2440379.41	1969 Jun 6 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W807	2440379.42	1969 Jun 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W808	2440379.45	1969 Jun 6 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A98	2440382.11	1969 Jun 9 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W809	2440382.17	1969 Jun 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W810	2440382.24	1969 Jun 9 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W811	2440382.29	1969 Jun 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W812	2440383.12	1969 Jun 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W813	2440383.18	1969 Jun 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W814	2440383.25	1969 Jun 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W815	2440383.33	1969 Jun 10 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W817	2440384.08	1969 Jun 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W818	2440384.10	1969 Jun 11 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W819	2440384.10	1969 Jun 11 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W820	2440384.16	1969 Jun 11 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W821	2440384.18	1969 Jun 11 1612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W822	2440384.19	1969 Jun 11 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W824	2440384.24	1969 Jun 11 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W825	2440384.38	1969 Jun 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A99	2440385.38	1969 Jun 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A100	2440385.38	1969 Jun 12 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W827	2440385.40	1969 Jun 12 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y179	2440385.42	1969 Jun 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W828	2440386.10	1969 Jun 13 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W829	2440386.12	1969 Jun 13 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W830	2440386.21	1969 Jun 13 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W831	2440386.27	1969 Jun 13 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W832	2440386.32	1969 Jun 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W833	2440386.40	1969 Jun 13 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W834	2440387.68	1969 Jun 15 0418:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W835	2440388.23	1969 Jun 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W836	2440389.22	1969 Jun 16 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W837	2440389.25	1969 Jun 16 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W838	2440390.17	1969 Jun 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A101	2440390.27	1969 Jun 17 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A102	2440390.38	1969 Jun 17 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W839	2440390.98	1969 Jun 18 1125:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W840	2440391.10	1969 Jun 18 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W841	2440391.13	1969 Jun 18 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W842	2440391.15	1969 Jun 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W844	2440391.21	1969 Jun 18 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W845	2440391.23	1969 Jun 18 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W846	2440391.29	1969 Jun 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W847	2440391.30	1969 Jun 18 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W848	2440391.39	1969 Jun 18 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W849	2440391.45	1969 Jun 18 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W850	2440392.15	1969 Jun 19 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W851	2440392.23	1969 Jun 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A104	2440392.50	1969 Jun 20 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W852	2440392.56	1969 Jun 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W853	2440392.57	1969 Jun 20 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W854	2440392.86	1969 Jun 20 0837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W856	2440393.15	1969 Jun 20 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W857	2440393.15	1969 Jun 20 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W858	2440393.17	1969 Jun 20 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W859	2440393.19	1969 Jun 20 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W860	2440393.19	1969 Jun 20 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W861	2440393.23	1969 Jun 20 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W862	2440393.24	1969 Jun 20 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W863	2440393.27	1969 Jun 20 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W864	2440393.28	1969 Jun 20 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W865	2440393.29	1969 Jun 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W866	2440393.30	1969 Jun 20 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W867	2440393.32	1969 Jun 20 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W868	2440393.32	1969 Jun 20 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W869	2440393.40	1969 Jun 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W870	2440393.40	1969 Jun 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W871	2440396.08	1969 Jun 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W872	2440396.11	1969 Jun 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W873	2440396.14	1969 Jun 23 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W874	2440396.14	1969 Jun 23 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W875	2440396.17	1969 Jun 23 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W876	2440396.20	1969 Jun 23 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W877	2440396.23	1969 Jun 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W878	2440396.25	1969 Jun 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W879	2440396.38	1969 Jun 23 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W880	2440397.08	1969 Jun 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W881	2440397.10	1969 Jun 24 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W882	2440397.12	1969 Jun 24 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W883	2440397.12	1969 Jun 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W884	2440397.26	1969 Jun 24 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A106	2440397.39	1969 Jun 24 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W886	2440398.10	1969 Jun 25 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W887	2440398.11	1969 Jun 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W888	2440398.11	1969 Jun 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W889	2440398.12	1969 Jun 25 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W890	2440398.12	1969 Jun 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W891	2440398.15	1969 Jun 25 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W892	2440398.17	1969 Jun 25 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W893	2440398.29	1969 Jun 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W894	2440398.33	1969 Jun 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W895	2440398.39	1969 Jun 25 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W896	2440398.42	1969 Jun 25 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W897	2440399.12	1969 Jun 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W898	2440399.13	1969 Jun 26 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A107	2440399.38	1969 Jun 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W899	2440399.41	1969 Jun 26 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W900	2440400.09	1969 Jun 27 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W902	2440400.25	1969 Jun 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W903	2440400.25	1969 Jun 27 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W904	2440400.29	1969 Jun 27 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W905	2440400.33	1969 Jun 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W906	2440400.39	1969 Jun 27 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A108	2440400.40	1969 Jun 27 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W907	2440400.46	1969 Jun 27 2255:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W908	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W909	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W910	2440403.11	1969 Jun 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W911	2440403.12	1969 Jun 30 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W912	2440403.14	1969 Jun 30 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W913	2440403.38	1969 Jun 30 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W914	2440403.74	1969 Jul 1 0546:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A112	2440404.11	1969 Jul 1 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W915	2440404.27	1969 Jul 1 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A113	2440404.38	1969 Jul 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W916	2440404.92	1969 Jul 2 1003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W917	2440405.09	1969 Jul 2 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W918	2440405.11	1969 Jul 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W919	2440405.13	1969 Jul 2 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W920	2440405.13	1969 Jul 2 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y189	2440405.17	1969 Jul 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W921	2440405.17	1969 Jul 2 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W923	2440405.23	1969 Jul 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W924	2440405.25	1969 Jul 2 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A114	2440405.29	1969 Jul 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A115	2440405.32	1969 Jul 2 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W925	2440405.35	1969 Jul 2 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W926	2440405.38	1969 Jul 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A116	2440405.39	1969 Jul 2 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W927	2440406.12	1969 Jul 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W928	2440406.26	1969 Jul 3 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W929	2440406.29	1969 Jul 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W930	2440406.31	1969 Jul 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W931	2440406.39	1969 Jul 3 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W932	2440410.08	1969 Jul 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W933	2440410.11	1969 Jul 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W934	2440410.12	1969 Jul 7 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W935	2440410.18	1969 Jul 7 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W936	2440410.22	1969 Jul 7 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W937	2440411.27	1969 Jul 8 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A119	2440411.38	1969 Jul 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W938	2440412.10	1969 Jul 9 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A120	2440412.14	1969 Jul 9 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W939	2440412.14	1969 Jul 9 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W940	2440412.16	1969 Jul 9 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W941	2440412.20	1969 Jul 9 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A121	2440412.24	1969 Jul 9 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W942	2440412.25	1969 Jul 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W944	2440412.38	1969 Jul 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A122	2440413.30	1969 Jul 10 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W945	2440413.32	1969 Jul 10 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W946	2440413.56	1969 Jul 11 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W947	2440414.08	1969 Jul 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W948	2440414.11	1969 Jul 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W949	2440414.12	1969 Jul 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W950	2440414.20	1969 Jul 11 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A123	2440414.23	1969 Jul 11 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W951	2440414.30	1969 Jul 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W952	2440414.47	1969 Jul 11 2322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W954	2440417.11	1969 Jul 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W955	2440417.13	1969 Jul 14 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W957	2440417.28	1969 Jul 14 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W958	2440417.29	1969 Jul 14 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W959	2440417.30	1969 Jul 14 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W14	2440587.56	1970 Jan 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W15	2440588.46	1970 Jan 1 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W16	2440589.10	1970 Jan 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W17	2440589.13	1970 Jan 2 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W18	2440589.18	1970 Jan 2 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W19	2440589.29	1970 Jan 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W21	2440589.42	1970 Jan 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W22	2440589.55	1970 Jan 3 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W26	2440590.31	1970 Jan 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W27	2440590.33	1970 Jan 3 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W30	2440591.27	1970 Jan 4 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W31	2440591.31	1970 Jan 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W32	2440591.35	1970 Jan 4 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W35	2440592.10	1970 Jan 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W36	2440592.12	1970 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W38	2440592.17	1970 Jan 5 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W40	2440592.32	1970 Jan 5 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W41	2440592.33	1970 Jan 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W42	2440592.40	1970 Jan 5 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A03	2440592.42	1970 Jan 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W44	2440592.55	1970 Jan 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W46	2440593.12	1970 Jan 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W47	2440593.17	1970 Jan 6 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A04	2440593.40	1970 Jan 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W48	2440593.46	1970 Jan 6 2306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W51	2440594.10	1970 Jan 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W52	2440594.17	1970 Jan 7 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W53	2440594.25	1970 Jan 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W54	2440594.28	1970 Jan 7 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W55	2440594.34	1970 Jan 7 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W56	2440594.37	1970 Jan 7 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W57	2440594.40	1970 Jan 7 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A05	2440594.46	1970 Jan 7 2255:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W59	2440594.55	1970 Jan 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y06	2440595.26	1970 Jan 8 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W60	2440595.28	1970 Jan 8 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W61	2440595.33	1970 Jan 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W62	2440596.10	1970 Jan 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W64	2440596.22	1970 Jan 9 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W65	2440596.22	1970 Jan 9 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W66	2440596.24	1970 Jan 9 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W67	2440596.25	1970 Jan 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A06	2440596.31	1970 Jan 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W68	2440596.38	1970 Jan 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W69	2440596.55	1970 Jan 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W70	2440596.60	1970 Jan 10 0226:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W72	2440599.11	1970 Jan 12 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W74	2440599.17	1970 Jan 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W75	2440599.18	1970 Jan 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W76	2440599.30	1970 Jan 12 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W77	2440599.38	1970 Jan 12 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W78	2440599.44	1970 Jan 12 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W79	2440599.56	1970 Jan 13 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W80	2440600.22	1970 Jan 13 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A08	2440601.10	1970 Jan 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W85	2440601.10	1970 Jan 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y20	2440601.17	1970 Jan 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W87	2440601.17	1970 Jan 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W88	2440601.20	1970 Jan 14 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W89	2440601.22	1970 Jan 14 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W90	2440601.25	1970 Jan 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W91	2440601.26	1970 Jan 14 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W93	2440601.27	1970 Jan 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W95	2440601.55	1970 Jan 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W96	2440602.18	1970 Jan 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W97	2440602.30	1970 Jan 15 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W98	2440602.40	1970 Jan 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W100	2440603.10	1970 Jan 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W101	2440603.12	1970 Jan 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W102	2440603.15	1970 Jan 16 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W103	2440603.17	1970 Jan 16 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W104	2440603.20	1970 Jan 16 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W105	2440603.23	1970 Jan 16 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W106	2440603.26	1970 Jan 16 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W107	2440603.30	1970 Jan 16 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W108	2440603.33	1970 Jan 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W109	2440603.33	1970 Jan 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W110	2440603.41	1970 Jan 16 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W112	2440603.55	1970 Jan 17 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A11	2440606.17	1970 Jan 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W116	2440606.17	1970 Jan 19 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A12	2440606.20	1970 Jan 19 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W117	2440606.21	1970 Jan 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W118	2440606.25	1970 Jan 19 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W119	2440606.27	1970 Jan 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W120	2440606.29	1970 Jan 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W121	2440606.33	1970 Jan 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W122	2440606.42	1970 Jan 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W123	2440606.55	1970 Jan 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W125	2440607.12	1970 Jan 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W126	2440607.23	1970 Jan 20 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W127	2440607.42	1970 Jan 20 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W130	2440608.12	1970 Jan 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W132	2440608.24	1970 Jan 21 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y30	2440608.24	1970 Jan 21 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W134	2440608.26	1970 Jan 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W135	2440608.36	1970 Jan 21 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W136	2440608.37	1970 Jan 21 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W137	2440608.40	1970 Jan 21 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W138	2440608.42	1970 Jan 21 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W139	2440608.45	1970 Jan 21 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W140	2440608.55	1970 Jan 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W143	2440609.12	1970 Jan 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W144	2440609.24	1970 Jan 22 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A14	2440609.42	1970 Jan 22 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A15	2440610.12	1970 Jan 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W147	2440610.15	1970 Jan 23 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W148	2440610.25	1970 Jan 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W149	2440610.26	1970 Jan 23 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W150	2440610.30	1970 Jan 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W151	2440610.31	1970 Jan 23 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W152	2440610.34	1970 Jan 23 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W153	2440610.34	1970 Jan 23 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W154	2440610.40	1970 Jan 23 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W155	2440613.10	1970 Jan 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W156	2440613.12	1970 Jan 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W158	2440613.26	1970 Jan 26 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W159	2440613.35	1970 Jan 26 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W160	2440613.38	1970 Jan 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W162	2440614.15	1970 Jan 27 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A16	2440614.20	1970 Jan 27 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A17	2440615.10	1970 Jan 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W164	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W165	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W166	2440615.12	1970 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W168	2440615.25	1970 Jan 28 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y36	2440615.30	1970 Jan 28 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W169	2440615.32	1970 Jan 28 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W170	2440615.33	1970 Jan 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W171	2440615.34	1970 Jan 28 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W172	2440615.35	1970 Jan 28 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W173	2440615.42	1970 Jan 28 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W174	2440615.59	1970 Jan 29 0212:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W176	2440616.41	1970 Jan 29 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W177	2440616.44	1970 Jan 29 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W179	2440617.23	1970 Jan 30 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W180	2440617.26	1970 Jan 30 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W181	2440617.31	1970 Jan 30 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A18	2440617.35	1970 Jan 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W182	2440617.36	1970 Jan 30 2037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W183	2440617.42	1970 Jan 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W188	2440617.56	1970 Jan 31 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W189	2440620.25	1970 Feb 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W190	2440620.45	1970 Feb 2 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W191	2440620.45	1970 Feb 2 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W192	2440620.56	1970 Feb 3 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W193	2440621.24	1970 Feb 3 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W194	2440621.25	1970 Feb 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W195	2440621.35	1970 Feb 3 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W196	2440621.42	1970 Feb 3 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W198	2440622.09	1970 Feb 4 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W199	2440622.09	1970 Feb 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W200	2440622.26	1970 Feb 4 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W201	2440622.28	1970 Feb 4 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W202	2440622.37	1970 Feb 4 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W203	2440622.42	1970 Feb 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A19	2440622.45	1970 Feb 4 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W204	2440622.49	1970 Feb 4 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W205	2440622.56	1970 Feb 5 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W207	2440623.19	1970 Feb 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W208	2440623.25	1970 Feb 5 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W209	2440623.27	1970 Feb 5 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W210	2440623.38	1970 Feb 5 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A21	2440624.10	1970 Feb 6 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W211	2440624.10	1970 Feb 6 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A22	2440624.20	1970 Feb 6 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W212	2440624.25	1970 Feb 6 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W213	2440624.29	1970 Feb 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W214	2440624.38	1970 Feb 6 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W215	2440624.60	1970 Feb 7 0217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W217	2440626.05	1970 Feb 8 1318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W218	2440627.08	1970 Feb 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W219	2440627.13	1970 Feb 9 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W220	2440627.15	1970 Feb 9 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W221	2440627.21	1970 Feb 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W222	2440627.21	1970 Feb 9 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W223	2440627.25	1970 Feb 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W224	2440627.29	1970 Feb 9 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W225	2440627.31	1970 Feb 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W226	2440627.32	1970 Feb 9 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W227	2440627.33	1970 Feb 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W228	2440627.35	1970 Feb 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W229	2440627.36	1970 Feb 9 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W230	2440627.38	1970 Feb 9 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W231	2440627.42	1970 Feb 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W232	2440627.56	1970 Feb 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W234	2440628.13	1970 Feb 10 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W235	2440628.23	1970 Feb 10 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W237	2440628.37	1970 Feb 10 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W239	2440629.05	1970 Feb 11 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W241	2440629.08	1970 Feb 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W242	2440629.13	1970 Feb 11 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W243	2440629.28	1970 Feb 11 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W244	2440629.30	1970 Feb 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A23	2440629.38	1970 Feb 11 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W245	2440629.42	1970 Feb 11 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W246	2440629.57	1970 Feb 12 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W248	2440630.12	1970 Feb 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W249	2440630.19	1970 Feb 12 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W250	2440630.42	1970 Feb 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W251	2440630.48	1970 Feb 12 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W253	2440631.08	1970 Feb 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W254	2440631.13	1970 Feb 13 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W255	2440631.31	1970 Feb 13 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W256	2440631.35	1970 Feb 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W257	2440631.44	1970 Feb 13 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W258	2440631.56	1970 Feb 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W259	2440634.12	1970 Feb 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W260	2440634.14	1970 Feb 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W261	2440634.17	1970 Feb 16 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W262	2440634.25	1970 Feb 16 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W263	2440634.33	1970 Feb 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W264	2440634.35	1970 Feb 16 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W265	2440634.40	1970 Feb 16 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W267	2440634.57	1970 Feb 17 0135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W268	2440635.14	1970 Feb 17 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W269	2440635.38	1970 Feb 17 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W270	2440635.42	1970 Feb 17 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W272	2440636.09	1970 Feb 18 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W273	2440636.10	1970 Feb 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W274	2440636.12	1970 Feb 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W275	2440636.26	1970 Feb 18 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y71	2440636.26	1970 Feb 18 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W276	2440636.26	1970 Feb 18 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W277	2440636.36	1970 Feb 18 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W278	2440636.37	1970 Feb 18 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W279	2440636.38	1970 Feb 18 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W280	2440636.51	1970 Feb 19 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W281	2440636.57	1970 Feb 19 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W283	2440637.12	1970 Feb 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W284	2440638.08	1970 Feb 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W285	2440638.13	1970 Feb 20 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W286	2440638.33	1970 Feb 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W287	2440638.50	1970 Feb 20 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W288	2440638.56	1970 Feb 21 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W290	2440642.12	1970 Feb 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W291	2440642.13	1970 Feb 24 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W292	2440642.23	1970 Feb 24 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W293	2440642.29	1970 Feb 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W294	2440642.40	1970 Feb 24 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W296	2440643.12	1970 Feb 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W297	2440643.15	1970 Feb 25 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W298	2440643.15	1970 Feb 25 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W300	2440643.25	1970 Feb 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W301	2440643.28	1970 Feb 25 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W302	2440643.33	1970 Feb 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W303	2440643.34	1970 Feb 25 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W304	2440643.36	1970 Feb 25 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W305	2440643.38	1970 Feb 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W307	2440643.61	1970 Feb 26 0237:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W308	2440644.12	1970 Feb 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W309	2440644.23	1970 Feb 26 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W310	2440644.25	1970 Feb 26 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W311	2440644.38	1970 Feb 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W313	2440645.08	1970 Feb 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W314	2440645.11	1970 Feb 27 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W315	2440645.11	1970 Feb 27 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W316	2440645.25	1970 Feb 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W317	2440645.25	1970 Feb 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W318	2440645.25	1970 Feb 27 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W319	2440645.33	1970 Feb 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W320	2440645.41	1970 Feb 27 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W323	2440645.56	1970 Feb 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W326	2440648.08	1970 Mar 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W327	2440648.12	1970 Mar 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W328	2440648.17	1970 Mar 2 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W329	2440648.27	1970 Mar 2 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W330	2440648.29	1970 Mar 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W331	2440648.38	1970 Mar 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W332	2440648.56	1970 Mar 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W333	2440649.10	1970 Mar 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A24	2440649.35	1970 Mar 3 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W334	2440649.36	1970 Mar 3 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W335	2440649.40	1970 Mar 3 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W337	2440650.08	1970 Mar 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W338	2440650.12	1970 Mar 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W339	2440650.15	1970 Mar 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W340	2440650.21	1970 Mar 4 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W341	2440650.25	1970 Mar 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W342	2440650.31	1970 Mar 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W343	2440650.37	1970 Mar 4 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W344	2440650.44	1970 Mar 4 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W345	2440650.55	1970 Mar 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W346	2440650.57	1970 Mar 5 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W347	2440651.41	1970 Mar 5 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W348	2440651.43	1970 Mar 5 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W351	2440652.08	1970 Mar 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W352	2440652.12	1970 Mar 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W353	2440652.14	1970 Mar 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W354	2440652.38	1970 Mar 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W355	2440652.57	1970 Mar 7 0147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W366	2440655.08	1970 Mar 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A27	2440655.12	1970 Mar 9 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W367	2440655.12	1970 Mar 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W368	2440655.15	1970 Mar 9 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W369	2440655.19	1970 Mar 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W370	2440655.29	1970 Mar 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W371	2440655.38	1970 Mar 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A28	2440655.43	1970 Mar 9 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W373	2440655.56	1970 Mar 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W375	2440656.14	1970 Mar 10 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W376	2440656.39	1970 Mar 10 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W377	2440657.09	1970 Mar 11 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W378	2440657.12	1970 Mar 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W380	2440657.14	1970 Mar 11 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W382	2440657.19	1970 Mar 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A29	2440657.25	1970 Mar 11 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W383	2440657.27	1970 Mar 11 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W384	2440657.33	1970 Mar 11 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W385	2440657.48	1970 Mar 11 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W386	2440657.56	1970 Mar 12 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W389	2440658.23	1970 Mar 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W390	2440659.03	1970 Mar 13 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W391	2440659.08	1970 Mar 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W392	2440659.11	1970 Mar 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W393	2440659.17	1970 Mar 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W394	2440659.29	1970 Mar 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W395	2440659.34	1970 Mar 13 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W396	2440659.35	1970 Mar 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W397	2440659.38	1970 Mar 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W398	2440659.56	1970 Mar 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W402	2440662.08	1970 Mar 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A33	2440662.12	1970 Mar 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W403	2440662.14	1970 Mar 16 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W404	2440662.27	1970 Mar 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W405	2440662.38	1970 Mar 16 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W406	2440662.38	1970 Mar 16 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W408	2440662.56	1970 Mar 17 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W410	2440663.27	1970 Mar 17 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A35	2440663.38	1970 Mar 17 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W412	2440664.08	1970 Mar 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W413	2440664.12	1970 Mar 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W414	2440664.17	1970 Mar 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W415	2440664.25	1970 Mar 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W416	2440664.29	1970 Mar 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W417	2440664.57	1970 Mar 19 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W419	2440665.13	1970 Mar 19 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W421	2440665.31	1970 Mar 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W423	2440666.08	1970 Mar 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W424	2440666.12	1970 Mar 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A36	2440666.26	1970 Mar 20 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W426	2440666.33	1970 Mar 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W428	2440669.08	1970 Mar 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W429	2440669.12	1970 Mar 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W430	2440669.13	1970 Mar 23 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A38	2440669.30	1970 Mar 23 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W432	2440669.36	1970 Mar 23 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W433	2440669.40	1970 Mar 23 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W434	2440669.42	1970 Mar 23 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W435	2440669.43	1970 Mar 23 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W436	2440669.56	1970 Mar 24 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A39	2440669.58	1970 Mar 24 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W437	2440670.04	1970 Mar 24 1302:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A40	2440670.15	1970 Mar 24 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W438	2440670.28	1970 Mar 24 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W439	2440670.31	1970 Mar 24 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W440	2440670.34	1970 Mar 24 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W441	2440671.05	1970 Mar 25 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W442	2440671.08	1970 Mar 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W443	2440671.12	1970 Mar 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A41	2440671.16	1970 Mar 25 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W445	2440671.17	1970 Mar 25 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W446	2440671.20	1970 Mar 25 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W447	2440671.29	1970 Mar 25 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W448	2440671.30	1970 Mar 25 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A42	2440671.33	1970 Mar 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W449	2440671.33	1970 Mar 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A43	2440671.34	1970 Mar 25 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y106	2440671.35	1970 Mar 25 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W450	2440671.57	1970 Mar 26 0135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W451	2440671.91	1970 Mar 26 0945:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W452	2440672.38	1970 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W454	2440673.10	1970 Mar 27 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W455	2440673.12	1970 Mar 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W456	2440673.17	1970 Mar 27 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W458	2440673.29	1970 Mar 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W459	2440673.56	1970 Mar 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A44	2440676.08	1970 Mar 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A45	2440676.10	1970 Mar 30 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W461	2440676.12	1970 Mar 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W462	2440676.18	1970 Mar 30 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W463	2440676.24	1970 Mar 30 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A46	2440676.34	1970 Mar 30 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W464	2440676.38	1970 Mar 30 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W465	2440676.57	1970 Mar 31 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W467	2440677.30	1970 Mar 31 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W468	2440677.39	1970 Mar 31 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W469	2440678.08	1970 Apr 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A48	2440678.09	1970 Apr 1 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W470	2440678.12	1970 Apr 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W471	2440678.15	1970 Apr 1 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W472	2440678.19	1970 Apr 1 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W473	2440678.19	1970 Apr 1 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W474	2440678.20	1970 Apr 1 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W475	2440678.29	1970 Apr 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W476	2440678.33	1970 Apr 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W477	2440678.42	1970 Apr 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W479	2440678.56	1970 Apr 2 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W480	2440679.33	1970 Apr 2 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W481	2440679.74	1970 Apr 3 0545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W482	2440680.10	1970 Apr 3 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W483	2440680.10	1970 Apr 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W484	2440680.22	1970 Apr 3 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W485	2440680.25	1970 Apr 3 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W486	2440680.29	1970 Apr 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W487	2440680.40	1970 Apr 3 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A49	2440680.42	1970 Apr 3 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A50	2440680.57	1970 Apr 4 0145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W488	2440680.59	1970 Apr 4 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W489	2440683.09	1970 Apr 6 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W490	2440683.12	1970 Apr 6 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W491	2440683.12	1970 Apr 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W492	2440683.21	1970 Apr 6 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W494	2440683.31	1970 Apr 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W495	2440683.33	1970 Apr 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W496	2440683.42	1970 Apr 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W497	2440684.03	1970 Apr 7 1237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W498	2440684.10	1970 Apr 7 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W500	2440684.25	1970 Apr 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W501	2440684.35	1970 Apr 7 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W502	2440685.12	1970 Apr 8 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W503	2440685.13	1970 Apr 8 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W505	2440685.21	1970 Apr 8 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W506	2440685.25	1970 Apr 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W507	2440685.27	1970 Apr 8 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y126	2440685.29	1970 Apr 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W508	2440685.34	1970 Apr 8 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A51	2440685.39	1970 Apr 8 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A52	2440685.48	1970 Apr 8 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W509	2440685.56	1970 Apr 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W510	2440686.13	1970 Apr 9 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W511	2440686.13	1970 Apr 9 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y129	2440686.15	1970 Apr 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y130	2440686.17	1970 Apr 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y131	2440686.19	1970 Apr 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A53	2440686.20	1970 Apr 9 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W513	2440686.28	1970 Apr 9 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W514	2440686.33	1970 Apr 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W515	2440686.35	1970 Apr 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W516	2440687.08	1970 Apr 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W517	2440687.22	1970 Apr 10 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W518	2440687.24	1970 Apr 10 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W519	2440687.26	1970 Apr 10 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W520	2440687.33	1970 Apr 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W522	2440687.38	1970 Apr 10 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W523	2440687.46	1970 Apr 10 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W524	2440687.50	1970 Apr 11 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W525	2440688.37	1970 Apr 11 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W527	2440690.08	1970 Apr 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W528	2440690.10	1970 Apr 13 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W529	2440690.12	1970 Apr 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W530	2440690.25	1970 Apr 13 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W531	2440690.29	1970 Apr 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W532	2440690.31	1970 Apr 13 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W533	2440690.33	1970 Apr 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W534	2440690.38	1970 Apr 13 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W535	2440691.02	1970 Apr 14 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W536	2440691.20	1970 Apr 14 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W537	2440691.33	1970 Apr 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W538	2440691.42	1970 Apr 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W539	2440692.06	1970 Apr 15 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W541	2440692.08	1970 Apr 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W543	2440692.12	1970 Apr 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W545	2440692.26	1970 Apr 15 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W546	2440692.29	1970 Apr 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W547	2440692.33	1970 Apr 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y146	2440692.34	1970 Apr 15 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W548	2440692.35	1970 Apr 15 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W549	2440692.37	1970 Apr 15 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W550	2440692.49	1970 Apr 15 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W551	2440692.56	1970 Apr 16 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W553	2440693.21	1970 Apr 16 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W555	2440693.22	1970 Apr 16 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W556	2440693.30	1970 Apr 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W557	2440693.38	1970 Apr 16 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A54	2440693.42	1970 Apr 16 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W558	2440694.08	1970 Apr 17 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W559	2440694.12	1970 Apr 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W561	2440694.27	1970 Apr 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W563	2440694.29	1970 Apr 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W564	2440694.30	1970 Apr 17 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W565	2440694.32	1970 Apr 17 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W566	2440694.33	1970 Apr 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W567	2440694.34	1970 Apr 17 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W568	2440694.42	1970 Apr 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A56	2440697.09	1970 Apr 20 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W569	2440697.12	1970 Apr 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W571	2440697.25	1970 Apr 20 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W572	2440697.29	1970 Apr 20 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W573	2440697.31	1970 Apr 20 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W574	2440698.27	1970 Apr 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W575	2440698.33	1970 Apr 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W577	2440699.08	1970 Apr 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W578	2440699.12	1970 Apr 22 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W579	2440699.12	1970 Apr 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W580	2440699.24	1970 Apr 22 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W581	2440699.25	1970 Apr 22 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W582	2440699.26	1970 Apr 22 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A57	2440699.27	1970 Apr 22 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W583	2440699.28	1970 Apr 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W584	2440699.33	1970 Apr 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W585	2440699.42	1970 Apr 22 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W586	2440699.56	1970 Apr 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W587	2440700.30	1970 Apr 23 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W588	2440700.36	1970 Apr 23 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W589	2440700.39	1970 Apr 23 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W590	2440700.65	1970 Apr 24 0334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W591	2440700.86	1970 Apr 24 0845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W592	2440701.08	1970 Apr 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W593	2440701.12	1970 Apr 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W594	2440701.14	1970 Apr 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W595	2440701.25	1970 Apr 24 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W596	2440701.27	1970 Apr 24 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W597	2440701.29	1970 Apr 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W598	2440701.33	1970 Apr 24 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W599	2440701.40	1970 Apr 24 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W600	2440701.42	1970 Apr 24 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W601	2440704.08	1970 Apr 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W602	2440704.11	1970 Apr 27 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W603	2440704.15	1970 Apr 27 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W604	2440704.24	1970 Apr 27 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W605	2440704.25	1970 Apr 27 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W606	2440704.29	1970 Apr 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W607	2440704.45	1970 Apr 27 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W608	2440705.14	1970 Apr 28 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W609	2440705.23	1970 Apr 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W610	2440705.32	1970 Apr 28 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W611	2440705.42	1970 Apr 28 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W612	2440706.00	1970 Apr 29 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W613	2440706.13	1970 Apr 29 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W615	2440706.22	1970 Apr 29 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W616	2440706.23	1970 Apr 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W617	2440706.24	1970 Apr 29 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W618	2440706.25	1970 Apr 29 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W619	2440706.26	1970 Apr 29 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A60	2440706.29	1970 Apr 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W620	2440706.35	1970 Apr 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W621	2440706.49	1970 Apr 29 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W627	2440707.10	1970 Apr 30 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W628	2440707.22	1970 Apr 30 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W629	2440707.23	1970 Apr 30 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W630	2440707.42	1970 Apr 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W631	2440708.08	1970 May 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W632	2440708.10	1970 May 1 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W633	2440708.15	1970 May 1 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W634	2440708.17	1970 May 1 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W635	2440708.25	1970 May 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W636	2440708.27	1970 May 1 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W637	2440708.29	1970 May 1 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W638	2440711.08	1970 May 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A61	2440711.18	1970 May 4 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W639	2440711.23	1970 May 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W640	2440711.25	1970 May 4 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W641	2440711.26	1970 May 4 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W642	2440711.29	1970 May 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W643	2440711.37	1970 May 4 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W644	2440712.15	1970 May 5 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W645	2440712.19	1970 May 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W646	2440712.21	1970 May 5 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W647	2440712.42	1970 May 5 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A62	2440712.92	1970 May 6 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W649	2440712.93	1970 May 6 1021:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W650	2440713.08	1970 May 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W651	2440713.11	1970 May 6 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W652	2440713.16	1970 May 6 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W653	2440713.21	1970 May 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W654	2440713.22	1970 May 6 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W655	2440713.27	1970 May 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W656	2440713.28	1970 May 6 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W657	2440713.29	1970 May 6 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W658	2440713.29	1970 May 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W659	2440713.58	1970 May 7 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W660	2440714.43	1970 May 7 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W661	2440715.05	1970 May 8 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W662	2440715.08	1970 May 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W663	2440715.08	1970 May 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W664	2440715.09	1970 May 8 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W665	2440715.25	1970 May 8 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W667	2440715.35	1970 May 8 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W668	2440716.23	1970 May 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W669	2440718.08	1970 May 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W670	2440718.16	1970 May 11 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W671	2440718.17	1970 May 11 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W672	2440718.19	1970 May 11 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W673	2440718.21	1970 May 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W674	2440718.26	1970 May 11 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W675	2440718.29	1970 May 11 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W676	2440718.45	1970 May 11 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W677	2440719.21	1970 May 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W678	2440719.27	1970 May 12 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W679	2440719.45	1970 May 12 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W681	2440720.07	1970 May 13 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W682	2440720.08	1970 May 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W683	2440720.10	1970 May 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W684	2440720.17	1970 May 13 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W685	2440720.19	1970 May 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W686	2440720.21	1970 May 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W687	2440720.23	1970 May 13 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W689	2440720.25	1970 May 13 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W690	2440720.25	1970 May 13 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W691	2440720.29	1970 May 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W692	2440720.30	1970 May 13 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W693	2440720.44	1970 May 13 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W695	2440720.56	1970 May 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W696	2440721.23	1970 May 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W697	2440721.33	1970 May 14 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W698	2440721.42	1970 May 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W699	2440721.43	1970 May 14 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W700	2440722.07	1970 May 15 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W701	2440722.08	1970 May 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W702	2440722.08	1970 May 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W703	2440722.13	1970 May 15 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W704	2440722.14	1970 May 15 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W705	2440722.21	1970 May 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W707	2440722.29	1970 May 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W708	2440722.29	1970 May 15 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W709	2440722.42	1970 May 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W710	2440725.08	1970 May 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W711	2440725.09	1970 May 18 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W712	2440725.11	1970 May 18 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W713	2440725.16	1970 May 18 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W714	2440725.20	1970 May 18 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W715	2440725.23	1970 May 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W716	2440725.27	1970 May 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W717	2440725.42	1970 May 18 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W718	2440725.56	1970 May 19 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W719	2440726.21	1970 May 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W720	2440726.23	1970 May 19 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W721	2440726.29	1970 May 19 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W722	2440726.42	1970 May 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W724	2440727.08	1970 May 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W725	2440727.08	1970 May 20 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W726	2440727.09	1970 May 20 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W727	2440727.09	1970 May 20 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W728	2440727.09	1970 May 20 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W729	2440727.09	1970 May 20 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W730	2440727.10	1970 May 20 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W731	2440727.17	1970 May 20 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W733	2440727.21	1970 May 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W734	2440727.22	1970 May 20 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W735	2440727.25	1970 May 20 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W736	2440727.25	1970 May 20 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W737	2440727.32	1970 May 20 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W738	2440727.56	1970 May 21 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W739	2440728.11	1970 May 21 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W740	2440728.22	1970 May 21 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A63	2440728.34	1970 May 21 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W741	2440728.38	1970 May 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A64	2440728.55	1970 May 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W742	2440729.05	1970 May 22 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W743	2440729.08	1970 May 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W744	2440729.09	1970 May 22 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W745	2440729.21	1970 May 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W746	2440729.23	1970 May 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W748	2440729.25	1970 May 22 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A65	2440729.29	1970 May 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W749	2440729.35	1970 May 22 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W750	2440729.42	1970 May 22 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W751	2440731.75	1970 May 25 0600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W753	2440732.08	1970 May 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W754	2440732.08	1970 May 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W755	2440732.18	1970 May 25 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W756	2440732.21	1970 May 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W757	2440732.23	1970 May 25 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W758	2440732.25	1970 May 25 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W759	2440732.26	1970 May 25 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A66	2440732.31	1970 May 25 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W761	2440732.38	1970 May 25 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W762	2440732.40	1970 May 25 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W763	2440732.42	1970 May 25 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W766	2440732.56	1970 May 26 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W767	2440732.57	1970 May 26 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W769	2440732.65	1970 May 26 0340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W771	2440733.18	1970 May 26 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W772	2440733.42	1970 May 26 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W773	2440733.90	1970 May 27 0933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W775	2440734.02	1970 May 27 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W776	2440734.09	1970 May 27 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W777	2440734.10	1970 May 27 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W778	2440734.21	1970 May 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W779	2440734.23	1970 May 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W780	2440734.25	1970 May 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W781	2440734.25	1970 May 27 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W782	2440734.29	1970 May 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W783	2440734.56	1970 May 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W784	2440735.10	1970 May 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W785	2440735.12	1970 May 28 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W786	2440735.13	1970 May 28 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W787	2440735.25	1970 May 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W788	2440736.27	1970 May 29 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W789	2440739.06	1970 Jun 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W790	2440739.08	1970 Jun 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W791	2440739.14	1970 Jun 1 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W792	2440739.21	1970 Jun 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W793	2440739.21	1970 Jun 1 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W794	2440739.22	1970 Jun 1 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W795	2440739.24	1970 Jun 1 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W796	2440739.29	1970 Jun 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W797	2440739.42	1970 Jun 1 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W798	2440739.56	1970 Jun 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A68	2440740.14	1970 Jun 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W799	2440740.31	1970 Jun 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W800	2440740.42	1970 Jun 2 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W801	2440740.62	1970 Jun 3 0255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W803	2440741.08	1970 Jun 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W804	2440741.08	1970 Jun 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W805	2440741.09	1970 Jun 3 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W806	2440741.10	1970 Jun 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W807	2440741.12	1970 Jun 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W809	2440741.23	1970 Jun 3 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W810	2440741.24	1970 Jun 3 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W811	2440741.25	1970 Jun 3 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W812	2440741.29	1970 Jun 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W813	2440741.34	1970 Jun 3 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W814	2440741.37	1970 Jun 3 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W815	2440741.43	1970 Jun 3 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y174	2440742.15	1970 Jun 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W816	2440742.39	1970 Jun 4 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A69	2440742.42	1970 Jun 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W817	2440742.59	1970 Jun 5 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W818	2440743.08	1970 Jun 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W819	2440743.09	1970 Jun 5 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W820	2440743.10	1970 Jun 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W821	2440743.11	1970 Jun 5 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W822	2440743.13	1970 Jun 5 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W823	2440743.16	1970 Jun 5 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W824	2440743.17	1970 Jun 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W825	2440743.29	1970 Jun 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W826	2440743.36	1970 Jun 5 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W827	2440743.42	1970 Jun 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W828	2440746.04	1970 Jun 8 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W829	2440746.08	1970 Jun 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W830	2440746.12	1970 Jun 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W831	2440746.15	1970 Jun 8 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W832	2440746.19	1970 Jun 8 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W833	2440746.21	1970 Jun 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W834	2440746.29	1970 Jun 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W835	2440746.43	1970 Jun 8 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W836	2440746.56	1970 Jun 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W837	2440747.05	1970 Jun 9 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W838	2440747.22	1970 Jun 9 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W839	2440747.23	1970 Jun 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W840	2440747.30	1970 Jun 9 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W841	2440747.42	1970 Jun 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W843	2440748.04	1970 Jun 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W844	2440748.07	1970 Jun 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W845	2440748.08	1970 Jun 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W846	2440748.12	1970 Jun 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W847	2440748.17	1970 Jun 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W848	2440748.19	1970 Jun 10 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A71	2440748.25	1970 Jun 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W849	2440748.26	1970 Jun 10 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W851	2440748.43	1970 Jun 10 2225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W852	2440748.56	1970 Jun 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W853	2440749.12	1970 Jun 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W854	2440749.16	1970 Jun 11 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W855	2440749.20	1970 Jun 11 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A72	2440749.29	1970 Jun 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W856	2440749.35	1970 Jun 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W857	2440749.42	1970 Jun 11 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W858	2440750.08	1970 Jun 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W859	2440750.19	1970 Jun 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W860	2440750.19	1970 Jun 12 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W861	2440750.22	1970 Jun 12 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W862	2440750.29	1970 Jun 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W863	2440750.56	1970 Jun 13 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W864	2440753.04	1970 Jun 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W865	2440753.12	1970 Jun 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W866	2440753.12	1970 Jun 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W867	2440753.17	1970 Jun 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W868	2440753.18	1970 Jun 15 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W869	2440753.21	1970 Jun 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W870	2440753.29	1970 Jun 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W871	2440753.43	1970 Jun 15 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W872	2440753.56	1970 Jun 16 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W873	2440754.15	1970 Jun 16 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W874	2440754.22	1970 Jun 16 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W875	2440754.24	1970 Jun 16 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W876	2440754.31	1970 Jun 16 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W877	2440754.40	1970 Jun 16 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W878	2440754.43	1970 Jun 16 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W880	2440755.08	1970 Jun 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W882	2440755.12	1970 Jun 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W883	2440755.14	1970 Jun 17 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W884	2440755.15	1970 Jun 17 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W885	2440755.17	1970 Jun 17 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W886	2440755.19	1970 Jun 17 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W888	2440755.21	1970 Jun 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W889	2440755.23	1970 Jun 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W890	2440755.24	1970 Jun 17 1741:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W891	2440755.25	1970 Jun 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W892	2440755.26	1970 Jun 17 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W893	2440755.28	1970 Jun 17 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W894	2440755.29	1970 Jun 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W895	2440755.33	1970 Jun 17 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W896	2440755.56	1970 Jun 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W897	2440756.22	1970 Jun 18 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W898	2440756.28	1970 Jun 18 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W899	2440756.30	1970 Jun 18 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W900	2440756.31	1970 Jun 18 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W901	2440756.35	1970 Jun 18 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W903	2440757.08	1970 Jun 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W904	2440757.09	1970 Jun 19 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W905	2440757.09	1970 Jun 19 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W906	2440757.12	1970 Jun 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W907	2440757.14	1970 Jun 19 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W908	2440757.21	1970 Jun 19 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W909	2440757.33	1970 Jun 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W910	2440757.43	1970 Jun 19 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W911	2440757.56	1970 Jun 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W912	2440758.00	1970 Jun 20 1156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W913	2440760.08	1970 Jun 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W914	2440760.12	1970 Jun 22 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W915	2440760.12	1970 Jun 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W916	2440760.12	1970 Jun 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W917	2440760.16	1970 Jun 22 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W918	2440760.18	1970 Jun 22 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W919	2440760.19	1970 Jun 22 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W920	2440760.21	1970 Jun 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W921	2440760.42	1970 Jun 22 2207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W922	2440760.57	1970 Jun 23 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W923	2440761.10	1970 Jun 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W924	2440761.20	1970 Jun 23 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A75	2440761.20	1970 Jun 23 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W925	2440761.29	1970 Jun 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W926	2440761.42	1970 Jun 23 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W928	2440762.08	1970 Jun 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W929	2440762.10	1970 Jun 24 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A76	2440762.10	1970 Jun 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W930	2440762.10	1970 Jun 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W931	2440762.12	1970 Jun 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W932	2440762.14	1970 Jun 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W933	2440762.21	1970 Jun 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W934	2440762.26	1970 Jun 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W935	2440762.29	1970 Jun 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W936	2440762.35	1970 Jun 24 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W937	2440762.37	1970 Jun 24 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W938	2440762.42	1970 Jun 24 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W939	2440763.14	1970 Jun 25 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W940	2440763.16	1970 Jun 25 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W941	2440763.28	1970 Jun 25 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W942	2440763.41	1970 Jun 25 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W943	2440764.08	1970 Jun 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W944	2440764.12	1970 Jun 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W945	2440764.12	1970 Jun 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W946	2440764.28	1970 Jun 26 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W947	2440764.28	1970 Jun 26 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W948	2440764.31	1970 Jun 26 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W949	2440764.31	1970 Jun 26 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A77	2440764.52	1970 Jun 27 0022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W950	2440767.07	1970 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W951	2440767.08	1970 Jun 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W952	2440767.12	1970 Jun 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W953	2440767.12	1970 Jun 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W954	2440767.17	1970 Jun 29 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W955	2440767.18	1970 Jun 29 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W956	2440767.21	1970 Jun 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A79	2440767.42	1970 Jun 29 2208:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W957	2440767.47	1970 Jun 29 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W958	2440767.56	1970 Jun 30 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W959	2440767.63	1970 Jun 30 0307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W960	2440768.12	1970 Jun 30 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A80	2440768.18	1970 Jun 30 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A81	2440768.42	1970 Jun 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W962	2440769.06	1970 Jul 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W963	2440769.08	1970 Jul 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W964	2440769.10	1970 Jul 1 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W965	2440769.12	1970 Jul 1 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W966	2440769.12	1970 Jul 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W967	2440769.13	1970 Jul 1 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W968	2440769.19	1970 Jul 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W969	2440769.21	1970 Jul 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A82	2440769.25	1970 Jul 1 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A83	2440769.29	1970 Jul 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W970	2440769.29	1970 Jul 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W971	2440769.34	1970 Jul 1 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W972	2440769.38	1970 Jul 1 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W973	2440769.52	1970 Jul 2 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W974	2440769.56	1970 Jul 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W975	2440770.12	1970 Jul 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W976	2440770.16	1970 Jul 2 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W977	2440770.33	1970 Jul 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W978	2440770.42	1970 Jul 2 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W979	2440771.56	1970 Jul 4 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W980	2440774.04	1970 Jul 6 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A85	2440774.08	1970 Jul 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W981	2440774.10	1970 Jul 6 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W982	2440774.12	1970 Jul 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W983	2440774.17	1970 Jul 6 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W984	2440774.19	1970 Jul 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W985	2440774.21	1970 Jul 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A86	2440774.28	1970 Jul 6 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W986	2440774.42	1970 Jul 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W987	2440775.15	1970 Jul 7 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W988	2440775.46	1970 Jul 7 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W989	2440776.04	1970 Jul 8 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W990	2440776.08	1970 Jul 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W991	2440776.08	1970 Jul 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W992	2440776.12	1970 Jul 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W993	2440776.16	1970 Jul 8 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W994	2440776.18	1970 Jul 8 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W995	2440776.23	1970 Jul 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W996	2440776.25	1970 Jul 8 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W997	2440776.29	1970 Jul 8 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W998	2440776.40	1970 Jul 8 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1000	2440776.59	1970 Jul 9 0208:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1001	2440777.16	1970 Jul 9 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1002	2440777.42	1970 Jul 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1003	2440778.04	1970 Jul 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1004	2440778.08	1970 Jul 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1005	2440778.20	1970 Jul 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1006	2440778.21	1970 Jul 10 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1007	2440778.21	1970 Jul 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1008	2440778.21	1970 Jul 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1009	2440778.56	1970 Jul 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1010	2440781.04	1970 Jul 13 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1011	2440781.08	1970 Jul 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1012	2440781.18	1970 Jul 13 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1013	2440781.18	1970 Jul 13 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1014	2440781.19	1970 Jul 13 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1015	2440781.21	1970 Jul 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1016	2440781.21	1970 Jul 13 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1017	2440781.21	1970 Jul 13 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1018	2440781.29	1970 Jul 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1019	2440781.38	1970 Jul 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1020	2440781.56	1970 Jul 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1021	2440782.09	1970 Jul 14 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1022	2440782.19	1970 Jul 14 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A87	2440782.38	1970 Jul 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1023	2440782.44	1970 Jul 14 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1024	2440782.59	1970 Jul 15 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1025	2440783.05	1970 Jul 15 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1026	2440783.10	1970 Jul 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1027	2440783.10	1970 Jul 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1028	2440783.12	1970 Jul 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1030	2440783.24	1970 Jul 15 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1031	2440783.29	1970 Jul 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1032	2440783.38	1970 Jul 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1034	2440783.58	1970 Jul 16 0153:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1035	2440784.18	1970 Jul 16 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1036	2440784.22	1970 Jul 16 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1037	2440784.24	1970 Jul 16 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1038	2440784.38	1970 Jul 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1039	2440785.04	1970 Jul 17 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W03	2440956.08	1971 Jan 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W04	2440956.08	1971 Jan 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W06	2440956.31	1971 Jan 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W07	2440956.58	1971 Jan 5 0156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W09	2440957.33	1971 Jan 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y04	2440957.92	1971 Jan 6 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A01	2440958.08	1971 Jan 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W10	2440958.09	1971 Jan 6 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W11	2440958.12	1971 Jan 6 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W12	2440958.25	1971 Jan 6 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W13	2440958.32	1971 Jan 6 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W14	2440958.34	1971 Jan 6 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A03	2440958.57	1971 Jan 7 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W16	2440959.29	1971 Jan 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W18	2440959.38	1971 Jan 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W19	2440959.38	1971 Jan 7 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W20	2440960.08	1971 Jan 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W22	2440960.13	1971 Jan 8 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y08	2440960.17	1971 Jan 8 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W23	2440960.18	1971 Jan 8 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W24	2440960.21	1971 Jan 8 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W25	2440960.24	1971 Jan 8 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W26	2440960.25	1971 Jan 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W27	2440960.25	1971 Jan 8 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W31	2440960.56	1971 Jan 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W32	2440961.12	1971 Jan 9 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W33	2440961.61	1971 Jan 10 0240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A04	2440962.14	1971 Jan 10 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W34	2440963.08	1971 Jan 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W35	2440963.09	1971 Jan 11 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A05	2440963.11	1971 Jan 11 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A06	2440963.21	1971 Jan 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W36	2440963.22	1971 Jan 11 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W37	2440963.28	1971 Jan 11 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W38	2440963.29	1971 Jan 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W40	2440964.08	1971 Jan 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W41	2440964.17	1971 Jan 12 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W43	2440964.26	1971 Jan 12 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W44	2440964.30	1971 Jan 12 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W46	2440964.39	1971 Jan 12 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W47	2440964.63	1971 Jan 13 0304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W48	2440964.69	1971 Jan 13 0427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W50	2440965.08	1971 Jan 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W51	2440965.11	1971 Jan 13 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W52	2440965.14	1971 Jan 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W53	2440965.17	1971 Jan 13 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y18	2440965.17	1971 Jan 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W55	2440965.27	1971 Jan 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W56	2440965.28	1971 Jan 13 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A07	2440965.31	1971 Jan 13 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W58	2440965.32	1971 Jan 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W59	2440965.56	1971 Jan 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W60	2440965.62	1971 Jan 14 0252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A09	2440966.08	1971 Jan 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W62	2440966.19	1971 Jan 14 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W63	2440966.24	1971 Jan 14 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W64	2440966.24	1971 Jan 14 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W65	2440966.30	1971 Jan 14 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W66	2440966.43	1971 Jan 14 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W67	2440966.45	1971 Jan 14 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W68	2440966.66	1971 Jan 15 0351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W69	2440966.67	1971 Jan 15 0402:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W70	2440967.09	1971 Jan 15 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W72	2440967.17	1971 Jan 15 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W74	2440967.18	1971 Jan 15 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W75	2440967.37	1971 Jan 15 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W77	2440967.56	1971 Jan 16 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W78	2440967.58	1971 Jan 16 0151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W79	2440968.13	1971 Jan 16 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W80	2440969.15	1971 Jan 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W81	2440970.08	1971 Jan 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W82	2440970.08	1971 Jan 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W83	2440970.24	1971 Jan 18 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W84	2440970.25	1971 Jan 18 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W85	2440970.27	1971 Jan 18 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W86	2440970.29	1971 Jan 18 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W87	2440970.33	1971 Jan 18 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W88	2440970.50	1971 Jan 19 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W90	2440970.56	1971 Jan 19 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W91	2440970.67	1971 Jan 19 0409:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W92	2440971.08	1971 Jan 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W94	2440971.25	1971 Jan 19 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W95	2440971.31	1971 Jan 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W96	2440971.33	1971 Jan 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W98	2440971.50	1971 Jan 20 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W100	2440972.08	1971 Jan 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W101	2440972.10	1971 Jan 20 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W102	2440972.13	1971 Jan 20 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y33	2440972.19	1971 Jan 20 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W103	2440972.21	1971 Jan 20 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W104	2440972.23	1971 Jan 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W105	2440972.26	1971 Jan 20 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W106	2440972.27	1971 Jan 20 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W107	2440972.27	1971 Jan 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W108	2440972.29	1971 Jan 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W109	2440972.31	1971 Jan 20 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W110	2440972.56	1971 Jan 21 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W113	2440973.25	1971 Jan 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W114	2440973.27	1971 Jan 21 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W115	2440973.29	1971 Jan 21 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W116	2440973.32	1971 Jan 21 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W117	2440973.37	1971 Jan 21 2048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W118	2440973.43	1971 Jan 21 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W122	2440974.17	1971 Jan 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W123	2440974.27	1971 Jan 22 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W126	2440974.50	1971 Jan 23 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A11	2440974.51	1971 Jan 23 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y39	2440974.52	1971 Jan 23 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W128	2440974.56	1971 Jan 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W132	2440977.08	1971 Jan 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W134	2440977.17	1971 Jan 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W135	2440977.19	1971 Jan 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W136	2440977.22	1971 Jan 25 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W137	2440977.25	1971 Jan 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W138	2440977.30	1971 Jan 25 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W139	2440977.33	1971 Jan 25 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W140	2440977.37	1971 Jan 25 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W143	2440977.56	1971 Jan 26 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W144	2440978.22	1971 Jan 26 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W146	2440978.34	1971 Jan 26 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W148	2440978.44	1971 Jan 26 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y44	2440978.92	1971 Jan 27 1004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W149	2440979.08	1971 Jan 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W150	2440979.10	1971 Jan 27 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W151	2440979.15	1971 Jan 27 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W153	2440979.25	1971 Jan 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W154	2440979.27	1971 Jan 27 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W155	2440979.27	1971 Jan 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W156	2440979.29	1971 Jan 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W157	2440979.34	1971 Jan 27 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W158	2440979.34	1971 Jan 27 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W160	2440979.57	1971 Jan 28 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W161	2440980.27	1971 Jan 28 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W162	2440980.30	1971 Jan 28 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W163	2440980.34	1971 Jan 28 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W164	2440980.35	1971 Jan 28 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W165	2440980.37	1971 Jan 28 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W166	2440980.39	1971 Jan 28 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W167	2440981.08	1971 Jan 29 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W168	2440981.12	1971 Jan 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W169	2440981.15	1971 Jan 29 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W170	2440981.16	1971 Jan 29 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W171	2440981.16	1971 Jan 29 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W172	2440981.19	1971 Jan 29 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W174	2440981.28	1971 Jan 29 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W175	2440981.57	1971 Jan 30 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W176	2440982.08	1971 Jan 30 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W178	2440983.46	1971 Jan 31 2309:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W180	2440984.08	1971 Feb 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W182	2440984.21	1971 Feb 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W183	2440984.25	1971 Feb 1 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W184	2440984.25	1971 Feb 1 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W185	2440984.30	1971 Feb 1 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W186	2440984.30	1971 Feb 1 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W188	2440984.38	1971 Feb 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W189	2440984.41	1971 Feb 1 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W190	2440984.57	1971 Feb 2 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W191	2440985.19	1971 Feb 2 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W192	2440985.22	1971 Feb 2 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W193	2440985.38	1971 Feb 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y52	2440985.97	1971 Feb 3 1120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W195	2440986.08	1971 Feb 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W196	2440986.08	1971 Feb 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W197	2440986.12	1971 Feb 3 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W199	2440986.17	1971 Feb 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y53	2440986.21	1971 Feb 3 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W200	2440986.24	1971 Feb 3 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W202	2440986.26	1971 Feb 3 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W203	2440986.32	1971 Feb 3 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W204	2440986.35	1971 Feb 3 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y55	2440986.39	1971 Feb 3 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W205	2440986.41	1971 Feb 3 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W207	2440986.56	1971 Feb 4 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W208	2440987.21	1971 Feb 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W209	2440987.27	1971 Feb 4 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W210	2440987.29	1971 Feb 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W211	2440987.33	1971 Feb 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W212	2440987.38	1971 Feb 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W214	2440987.51	1971 Feb 5 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W215	2440988.08	1971 Feb 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W216	2440988.08	1971 Feb 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W217	2440988.25	1971 Feb 5 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W218	2440988.29	1971 Feb 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W219	2440988.37	1971 Feb 5 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W220	2440988.40	1971 Feb 5 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W223	2440991.08	1971 Feb 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W224	2440991.08	1971 Feb 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W225	2440991.19	1971 Feb 8 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W226	2440991.26	1971 Feb 8 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W227	2440991.29	1971 Feb 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W229	2440991.40	1971 Feb 8 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y61	2440992.17	1971 Feb 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W230	2440992.18	1971 Feb 9 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W231	2440992.23	1971 Feb 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W232	2440992.23	1971 Feb 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W234	2440992.32	1971 Feb 9 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W235	2440992.40	1971 Feb 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y63	2440992.92	1971 Feb 10 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A16	2440993.08	1971 Feb 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W238	2440993.09	1971 Feb 10 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W239	2440993.10	1971 Feb 10 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W240	2440993.14	1971 Feb 10 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W241	2440993.17	1971 Feb 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W242	2440993.18	1971 Feb 10 1612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W243	2440993.20	1971 Feb 10 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W244	2440993.25	1971 Feb 10 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W246	2440993.35	1971 Feb 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W247	2440993.44	1971 Feb 10 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W248	2440993.46	1971 Feb 10 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W249	2440993.56	1971 Feb 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W252	2440994.27	1971 Feb 11 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W253	2440994.39	1971 Feb 11 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W254	2440994.40	1971 Feb 11 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W255	2440995.08	1971 Feb 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W256	2440995.08	1971 Feb 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A17	2440995.23	1971 Feb 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W259	2440995.38	1971 Feb 12 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W260	2440995.41	1971 Feb 12 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W261	2440995.58	1971 Feb 13 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W262	2440998.25	1971 Feb 15 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A19	2440999.14	1971 Feb 16 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A20	2440999.18	1971 Feb 16 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W264	2440999.20	1971 Feb 16 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A21	2440999.35	1971 Feb 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W265	2440999.38	1971 Feb 16 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y73	2440999.97	1971 Feb 17 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W267	2441000.08	1971 Feb 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A22	2441000.10	1971 Feb 17 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W268	2441000.11	1971 Feb 17 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W270	2441000.14	1971 Feb 17 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W271	2441000.25	1971 Feb 17 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W272	2441000.29	1971 Feb 17 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W273	2441000.29	1971 Feb 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W274	2441000.32	1971 Feb 17 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y75	2441000.39	1971 Feb 17 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W275	2441000.41	1971 Feb 17 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W276	2441000.61	1971 Feb 18 0240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W277	2441001.33	1971 Feb 18 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W278	2441002.08	1971 Feb 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W279	2441002.08	1971 Feb 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W280	2441002.13	1971 Feb 19 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W281	2441002.25	1971 Feb 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W282	2441002.29	1971 Feb 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W283	2441002.38	1971 Feb 19 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W284	2441002.62	1971 Feb 20 0252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W287	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W288	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W289	2441005.08	1971 Feb 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W290	2441005.21	1971 Feb 22 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W291	2441005.30	1971 Feb 22 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W292	2441005.38	1971 Feb 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W293	2441006.29	1971 Feb 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W294	2441006.33	1971 Feb 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W295	2441006.38	1971 Feb 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W296	2441006.38	1971 Feb 23 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y80	2441006.92	1971 Feb 24 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W298	2441007.08	1971 Feb 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W299	2441007.09	1971 Feb 24 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W300	2441007.11	1971 Feb 24 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W301	2441007.14	1971 Feb 24 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y81	2441007.17	1971 Feb 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W302	2441007.25	1971 Feb 24 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A24	2441007.29	1971 Feb 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W303	2441007.35	1971 Feb 24 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W304	2441007.38	1971 Feb 24 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W306	2441008.18	1971 Feb 25 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y83	2441008.39	1971 Feb 25 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W307	2441008.40	1971 Feb 25 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W308	2441008.51	1971 Feb 26 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W309	2441008.56	1971 Feb 26 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W310	2441009.06	1971 Feb 26 1331:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W311	2441009.08	1971 Feb 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W312	2441009.08	1971 Feb 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W313	2441009.25	1971 Feb 26 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W314	2441009.31	1971 Feb 26 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W315	2441009.35	1971 Feb 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W316	2441009.56	1971 Feb 27 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W317	2441012.08	1971 Mar 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W318	2441012.08	1971 Mar 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W319	2441012.23	1971 Mar 1 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W320	2441012.25	1971 Mar 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W321	2441012.36	1971 Mar 1 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W322	2441012.40	1971 Mar 1 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W323	2441012.56	1971 Mar 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W324	2441013.09	1971 Mar 2 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W325	2441013.42	1971 Mar 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y88	2441013.92	1971 Mar 3 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W328	2441014.08	1971 Mar 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W329	2441014.09	1971 Mar 3 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W330	2441014.25	1971 Mar 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A27	2441014.32	1971 Mar 3 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W332	2441014.35	1971 Mar 3 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W334	2441014.56	1971 Mar 4 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W336	2441015.23	1971 Mar 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W337	2441015.23	1971 Mar 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y90	2441015.27	1971 Mar 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W338	2441015.42	1971 Mar 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W339	2441016.08	1971 Mar 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W340	2441016.13	1971 Mar 5 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W341	2441016.15	1971 Mar 5 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W342	2441016.26	1971 Mar 5 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W344	2441016.29	1971 Mar 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W345	2441016.31	1971 Mar 5 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W347	2441016.42	1971 Mar 5 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W348	2441016.56	1971 Mar 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W349	2441019.08	1971 Mar 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W350	2441019.23	1971 Mar 8 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W351	2441019.25	1971 Mar 8 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W352	2441019.29	1971 Mar 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W353	2441019.32	1971 Mar 8 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W354	2441019.38	1971 Mar 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W355	2441019.56	1971 Mar 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W357	2441019.73	1971 Mar 9 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W358	2441020.25	1971 Mar 9 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W360	2441021.08	1971 Mar 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A29	2441021.11	1971 Mar 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W361	2441021.25	1971 Mar 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W362	2441021.27	1971 Mar 10 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W363	2441021.56	1971 Mar 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W364	2441021.81	1971 Mar 11 0721:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W365	2441022.24	1971 Mar 11 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W366	2441022.55	1971 Mar 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W368	2441022.81	1971 Mar 12 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W369	2441023.06	1971 Mar 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W370	2441023.16	1971 Mar 12 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W371	2441023.31	1971 Mar 12 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y95	2441023.38	1971 Mar 12 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A30	2441023.41	1971 Mar 12 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W372	2441023.57	1971 Mar 13 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W373	2441026.20	1971 Mar 15 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W374	2441026.29	1971 Mar 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W375	2441026.30	1971 Mar 15 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W376	2441026.37	1971 Mar 15 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W377	2441026.42	1971 Mar 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W378	2441026.56	1971 Mar 16 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W379	2441026.56	1971 Mar 16 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W380	2441027.26	1971 Mar 16 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W381	2441027.39	1971 Mar 16 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W383	2441028.13	1971 Mar 17 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W384	2441028.18	1971 Mar 17 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W385	2441028.29	1971 Mar 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W386	2441028.33	1971 Mar 17 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y100	2441028.43	1971 Mar 17 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W387	2441028.44	1971 Mar 17 2232:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W388	2441028.57	1971 Mar 18 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W389	2441029.07	1971 Mar 18 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W390	2441029.38	1971 Mar 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W391	2441030.09	1971 Mar 19 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W392	2441030.21	1971 Mar 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W393	2441030.24	1971 Mar 19 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W394	2441030.33	1971 Mar 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W395	2441030.56	1971 Mar 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W398	2441033.08	1971 Mar 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A33	2441033.08	1971 Mar 22 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W399	2441033.14	1971 Mar 22 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W400	2441033.28	1971 Mar 22 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W401	2441033.29	1971 Mar 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W402	2441033.33	1971 Mar 22 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W403	2441033.56	1971 Mar 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W407	2441035.12	1971 Mar 24 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W408	2441035.12	1971 Mar 24 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W409	2441035.20	1971 Mar 24 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W410	2441035.23	1971 Mar 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W411	2441035.33	1971 Mar 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W412	2441035.37	1971 Mar 24 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y105	2441035.38	1971 Mar 24 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W413	2441035.40	1971 Mar 24 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W414	2441035.59	1971 Mar 25 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W416	2441036.27	1971 Mar 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W417	2441036.30	1971 Mar 25 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W419	2441037.08	1971 Mar 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W420	2441037.09	1971 Mar 26 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y106	2441037.17	1971 Mar 26 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W421	2441037.26	1971 Mar 26 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W423	2441037.35	1971 Mar 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W424	2441037.38	1971 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W425	2441037.56	1971 Mar 27 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W426	2441040.21	1971 Mar 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W428	2441040.27	1971 Mar 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W429	2441040.38	1971 Mar 29 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W430	2441040.44	1971 Mar 29 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W431	2441040.58	1971 Mar 30 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W432	2441041.27	1971 Mar 30 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W433	2441041.38	1971 Mar 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y111	2441041.92	1971 Mar 31 1004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W434	2441042.06	1971 Mar 31 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W435	2441042.08	1971 Mar 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W436	2441042.09	1971 Mar 31 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y112	2441042.17	1971 Mar 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W437	2441042.25	1971 Mar 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W439	2441042.28	1971 Mar 31 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W440	2441042.29	1971 Mar 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W441	2441042.46	1971 Mar 31 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W442	2441042.56	1971 Apr 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W443	2441043.27	1971 Apr 1 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y114	2441043.38	1971 Apr 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W444	2441043.39	1971 Apr 1 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y115	2441043.46	1971 Apr 1 2256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W445	2441044.08	1971 Apr 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W446	2441044.08	1971 Apr 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W447	2441044.12	1971 Apr 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W449	2441044.27	1971 Apr 2 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W450	2441044.29	1971 Apr 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W451	2441044.38	1971 Apr 2 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W452	2441044.48	1971 Apr 2 2326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W453	2441044.57	1971 Apr 3 0135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W454	2441045.03	1971 Apr 3 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W455	2441045.23	1971 Apr 3 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W456	2441045.24	1971 Apr 3 1741:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W457	2441046.71	1971 Apr 5 0508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W458	2441046.90	1971 Apr 5 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W459	2441047.08	1971 Apr 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W460	2441047.08	1971 Apr 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W461	2441047.12	1971 Apr 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W463	2441047.24	1971 Apr 5 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W464	2441047.25	1971 Apr 5 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W465	2441047.29	1971 Apr 5 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W466	2441047.31	1971 Apr 5 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W467	2441047.34	1971 Apr 5 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W468	2441047.37	1971 Apr 5 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W469	2441047.56	1971 Apr 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W470	2441048.38	1971 Apr 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y121	2441048.92	1971 Apr 7 1011:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W472	2441049.08	1971 Apr 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W473	2441049.08	1971 Apr 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W474	2441049.09	1971 Apr 7 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W475	2441049.12	1971 Apr 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W476	2441049.16	1971 Apr 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W477	2441049.17	1971 Apr 7 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W478	2441049.25	1971 Apr 7 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W479	2441049.29	1971 Apr 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W480	2441049.30	1971 Apr 7 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W481	2441049.34	1971 Apr 7 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W482	2441049.39	1971 Apr 7 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W483	2441049.63	1971 Apr 8 0304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W484	2441050.12	1971 Apr 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W485	2441050.25	1971 Apr 8 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A34	2441050.25	1971 Apr 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y122	2441050.42	1971 Apr 8 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W486	2441050.49	1971 Apr 8 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W487	2441051.08	1971 Apr 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W488	2441051.13	1971 Apr 9 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W489	2441051.13	1971 Apr 9 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W490	2441051.19	1971 Apr 9 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W491	2441051.19	1971 Apr 9 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W492	2441051.25	1971 Apr 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W493	2441051.29	1971 Apr 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W494	2441051.38	1971 Apr 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W495	2441051.56	1971 Apr 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W496	2441054.08	1971 Apr 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W497	2441054.08	1971 Apr 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W498	2441054.12	1971 Apr 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W499	2441054.23	1971 Apr 12 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W500	2441054.25	1971 Apr 12 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W501	2441054.30	1971 Apr 12 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W502	2441054.36	1971 Apr 12 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W503	2441054.38	1971 Apr 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W504	2441054.60	1971 Apr 13 0227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W505	2441055.38	1971 Apr 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W506	2441056.08	1971 Apr 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W507	2441056.13	1971 Apr 14 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W508	2441056.13	1971 Apr 14 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W510	2441056.20	1971 Apr 14 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W511	2441056.25	1971 Apr 14 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W512	2441056.34	1971 Apr 14 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W513	2441056.38	1971 Apr 14 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W514	2441056.40	1971 Apr 14 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W515	2441056.60	1971 Apr 15 0225:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W516	2441057.37	1971 Apr 15 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W517	2441057.48	1971 Apr 15 2334:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W518	2441058.08	1971 Apr 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W519	2441058.08	1971 Apr 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W520	2441058.11	1971 Apr 16 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W521	2441058.15	1971 Apr 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W523	2441058.25	1971 Apr 16 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W524	2441058.25	1971 Apr 16 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y126	2441058.34	1971 Apr 16 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W525	2441058.40	1971 Apr 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W526	2441058.52	1971 Apr 17 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W527	2441058.79	1971 Apr 17 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W528	2441061.08	1971 Apr 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W529	2441061.09	1971 Apr 19 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W530	2441061.12	1971 Apr 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W531	2441061.21	1971 Apr 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W532	2441061.25	1971 Apr 19 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W533	2441061.25	1971 Apr 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W534	2441061.25	1971 Apr 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W535	2441061.31	1971 Apr 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W536	2441061.35	1971 Apr 19 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W537	2441061.39	1971 Apr 19 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W538	2441061.43	1971 Apr 19 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W539	2441061.55	1971 Apr 20 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W540	2441061.56	1971 Apr 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W541	2441062.28	1971 Apr 20 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W542	2441062.43	1971 Apr 20 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W543	2441063.08	1971 Apr 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W544	2441063.08	1971 Apr 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W545	2441063.12	1971 Apr 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W546	2441063.17	1971 Apr 21 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W547	2441063.17	1971 Apr 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W549	2441063.25	1971 Apr 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W550	2441063.25	1971 Apr 21 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W551	2441063.25	1971 Apr 21 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W552	2441063.28	1971 Apr 21 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W553	2441063.33	1971 Apr 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W554	2441063.42	1971 Apr 21 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W555	2441063.56	1971 Apr 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W556	2441064.16	1971 Apr 22 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y130	2441064.47	1971 Apr 22 2319:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W557	2441064.88	1971 Apr 23 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W558	2441065.08	1971 Apr 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W559	2441065.12	1971 Apr 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W560	2441065.13	1971 Apr 23 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y131	2441065.25	1971 Apr 23 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W562	2441065.29	1971 Apr 23 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W563	2441065.30	1971 Apr 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W564	2441065.31	1971 Apr 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W565	2441065.56	1971 Apr 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W566	2441068.12	1971 Apr 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W567	2441068.14	1971 Apr 26 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A38	2441068.15	1971 Apr 26 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W568	2441068.21	1971 Apr 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W569	2441068.21	1971 Apr 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W570	2441068.24	1971 Apr 26 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W572	2441068.38	1971 Apr 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W573	2441068.56	1971 Apr 27 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W574	2441069.09	1971 Apr 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W575	2441069.09	1971 Apr 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W576	2441069.10	1971 Apr 27 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W577	2441069.17	1971 Apr 27 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W578	2441069.17	1971 Apr 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W579	2441069.19	1971 Apr 27 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W580	2441069.20	1971 Apr 27 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W581	2441069.28	1971 Apr 27 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W582	2441069.31	1971 Apr 27 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W583	2441069.32	1971 Apr 27 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W584	2441069.32	1971 Apr 27 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W585	2441069.42	1971 Apr 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y134	2441069.92	1971 Apr 28 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W587	2441070.04	1971 Apr 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W588	2441070.12	1971 Apr 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W589	2441070.13	1971 Apr 28 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W590	2441070.15	1971 Apr 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W591	2441070.17	1971 Apr 28 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W593	2441070.26	1971 Apr 28 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y136	2441070.38	1971 Apr 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W594	2441070.39	1971 Apr 28 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W595	2441070.58	1971 Apr 29 0158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W596	2441071.09	1971 Apr 29 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W597	2441071.23	1971 Apr 29 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W598	2441071.38	1971 Apr 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W600	2441072.08	1971 Apr 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W602	2441072.12	1971 Apr 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W603	2441072.13	1971 Apr 30 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A43	2441072.21	1971 Apr 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W604	2441072.27	1971 Apr 30 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W605	2441072.38	1971 Apr 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W606	2441072.56	1971 May 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W607	2441072.64	1971 May 1 0322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W608	2441075.08	1971 May 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W610	2441075.12	1971 May 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W611	2441075.13	1971 May 3 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W612	2441075.26	1971 May 3 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W613	2441075.27	1971 May 3 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W614	2441075.34	1971 May 3 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W615	2441075.38	1971 May 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W616	2441075.61	1971 May 4 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W617	2441076.25	1971 May 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W618	2441076.37	1971 May 4 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y140	2441076.92	1971 May 5 1009:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W620	2441077.12	1971 May 5 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W621	2441077.12	1971 May 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W622	2441077.23	1971 May 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W623	2441077.25	1971 May 5 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W624	2441077.25	1971 May 5 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W625	2441077.33	1971 May 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W626	2441077.41	1971 May 5 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W627	2441077.56	1971 May 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W628	2441078.12	1971 May 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W629	2441078.29	1971 May 6 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W630	2441078.38	1971 May 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W631	2441078.52	1971 May 7 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W632	2441078.96	1971 May 7 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W633	2441079.09	1971 May 7 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A52	2441079.20	1971 May 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W635	2441079.23	1971 May 7 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W636	2441079.42	1971 May 7 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W637	2441079.44	1971 May 7 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W638	2441079.56	1971 May 8 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W639	2441082.06	1971 May 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W640	2441082.08	1971 May 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W641	2441082.08	1971 May 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W643	2441082.12	1971 May 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W644	2441082.24	1971 May 10 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W645	2441082.25	1971 May 10 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W646	2441082.27	1971 May 10 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W647	2441082.29	1971 May 10 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W648	2441082.50	1971 May 10 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W649	2441083.37	1971 May 11 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W650	2441083.44	1971 May 11 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W651	2441083.55	1971 May 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y145	2441083.93	1971 May 12 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W652	2441084.06	1971 May 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W653	2441084.08	1971 May 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W654	2441084.09	1971 May 12 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W655	2441084.10	1971 May 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W657	2441084.12	1971 May 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y146	2441084.13	1971 May 12 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W658	2441084.17	1971 May 12 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W659	2441084.21	1971 May 12 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W660	2441084.22	1971 May 12 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W661	2441084.26	1971 May 12 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W662	2441084.31	1971 May 12 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W663	2441084.35	1971 May 12 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W664	2441084.53	1971 May 13 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W665	2441084.58	1971 May 13 0153:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W666	2441085.20	1971 May 13 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W667	2441085.24	1971 May 13 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W668	2441086.08	1971 May 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W669	2441086.09	1971 May 14 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W670	2441086.12	1971 May 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W672	2441086.20	1971 May 14 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W673	2441086.29	1971 May 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W674	2441086.35	1971 May 14 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y147	2441086.42	1971 May 14 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W675	2441086.44	1971 May 14 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W676	2441086.53	1971 May 15 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W677	2441086.57	1971 May 15 0142:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W678	2441086.70	1971 May 15 0441:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W679	2441088.21	1971 May 16 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W680	2441089.08	1971 May 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W681	2441089.09	1971 May 17 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W682	2441089.11	1971 May 17 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W683	2441089.12	1971 May 17 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W684	2441089.12	1971 May 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W685	2441089.16	1971 May 17 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W687	2441089.21	1971 May 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W688	2441089.26	1971 May 17 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W690	2441089.42	1971 May 17 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W691	2441089.49	1971 May 17 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W692	2441090.12	1971 May 18 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W693	2441090.38	1971 May 18 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y150	2441090.92	1971 May 19 1004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W695	2441091.07	1971 May 19 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W696	2441091.08	1971 May 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W697	2441091.09	1971 May 19 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W698	2441091.12	1971 May 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y153	2441091.16	1971 May 19 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W700	2441091.21	1971 May 19 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W701	2441091.21	1971 May 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W702	2441091.25	1971 May 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W703	2441091.25	1971 May 19 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W704	2441091.34	1971 May 19 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y154	2441091.36	1971 May 19 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W705	2441091.37	1971 May 19 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y155	2441091.40	1971 May 19 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W706	2441091.41	1971 May 19 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W707	2441091.56	1971 May 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W708	2441092.13	1971 May 20 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W709	2441093.06	1971 May 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W710	2441093.07	1971 May 21 1341:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W711	2441093.08	1971 May 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W712	2441093.12	1971 May 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W713	2441093.23	1971 May 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W714	2441093.27	1971 May 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W715	2441093.31	1971 May 21 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W716	2441093.33	1971 May 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W717	2441093.42	1971 May 21 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W718	2441093.57	1971 May 22 0141:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W719	2441094.21	1971 May 22 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y158	2441094.22	1971 May 22 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W720	2441095.21	1971 May 23 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W721	2441096.04	1971 May 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W722	2441096.08	1971 May 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W723	2441096.12	1971 May 24 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W724	2441096.12	1971 May 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W725	2441096.21	1971 May 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W726	2441096.38	1971 May 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W727	2441096.45	1971 May 24 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W728	2441096.56	1971 May 25 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W729	2441097.31	1971 May 25 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W730	2441097.39	1971 May 25 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W731	2441098.06	1971 May 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W732	2441098.08	1971 May 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W734	2441098.12	1971 May 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W735	2441098.14	1971 May 26 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y164	2441098.15	1971 May 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W736	2441098.21	1971 May 26 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W737	2441098.21	1971 May 26 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W738	2441098.25	1971 May 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W739	2441098.32	1971 May 26 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W740	2441098.38	1971 May 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W741	2441098.39	1971 May 26 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W742	2441098.44	1971 May 26 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W743	2441098.59	1971 May 27 0209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W744	2441099.09	1971 May 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W745	2441099.12	1971 May 27 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W746	2441099.30	1971 May 27 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W747	2441099.40	1971 May 27 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W748	2441100.09	1971 May 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W749	2441100.12	1971 May 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W750	2441100.15	1971 May 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A53	2441100.15	1971 May 28 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W751	2441100.21	1971 May 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W753	2441100.29	1971 May 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W754	2441100.40	1971 May 28 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W755	2441100.63	1971 May 29 0304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W758	2441104.12	1971 Jun 1 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W759	2441104.15	1971 Jun 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W760	2441104.15	1971 Jun 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W761	2441104.19	1971 Jun 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W762	2441104.22	1971 Jun 1 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W763	2441104.25	1971 Jun 1 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W764	2441104.40	1971 Jun 1 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W765	2441105.07	1971 Jun 2 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W766	2441105.08	1971 Jun 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W768	2441105.14	1971 Jun 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y171	2441105.15	1971 Jun 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W769	2441105.15	1971 Jun 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W770	2441105.21	1971 Jun 2 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W771	2441105.23	1971 Jun 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W772	2441105.29	1971 Jun 2 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W773	2441105.40	1971 Jun 2 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W774	2441105.56	1971 Jun 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W775	2441106.33	1971 Jun 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W776	2441106.38	1971 Jun 3 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W777	2441106.56	1971 Jun 4 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W778	2441106.76	1971 Jun 4 0612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W779	2441107.06	1971 Jun 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W780	2441107.08	1971 Jun 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W781	2441107.12	1971 Jun 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W782	2441107.34	1971 Jun 4 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W783	2441107.40	1971 Jun 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y172	2441107.46	1971 Jun 4 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W784	2441107.47	1971 Jun 4 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W785	2441110.10	1971 Jun 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W786	2441110.12	1971 Jun 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W787	2441110.19	1971 Jun 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W788	2441110.24	1971 Jun 7 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W789	2441110.27	1971 Jun 7 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W790	2441110.38	1971 Jun 7 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W791	2441110.44	1971 Jun 7 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W792	2441110.56	1971 Jun 8 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W793	2441111.13	1971 Jun 8 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W794	2441111.23	1971 Jun 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W795	2441111.40	1971 Jun 8 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y175	2441111.92	1971 Jun 9 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W796	2441112.06	1971 Jun 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W797	2441112.08	1971 Jun 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W798	2441112.10	1971 Jun 9 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W799	2441112.10	1971 Jun 9 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W800	2441112.12	1971 Jun 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W801	2441112.13	1971 Jun 9 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W804	2441112.14	1971 Jun 9 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y177	2441112.15	1971 Jun 9 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W805	2441112.19	1971 Jun 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W806	2441112.32	1971 Jun 9 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W807	2441112.33	1971 Jun 9 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W808	2441112.42	1971 Jun 9 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W809	2441112.44	1971 Jun 9 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W810	2441112.56	1971 Jun 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W811	2441113.14	1971 Jun 10 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W812	2441113.62	1971 Jun 11 0246:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W813	2441114.07	1971 Jun 11 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W814	2441114.08	1971 Jun 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W815	2441114.17	1971 Jun 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W816	2441114.22	1971 Jun 11 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W817	2441114.23	1971 Jun 11 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W818	2441114.24	1971 Jun 11 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W819	2441114.33	1971 Jun 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W820	2441114.35	1971 Jun 11 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A55	2441114.35	1971 Jun 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W821	2441114.38	1971 Jun 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W822	2441114.56	1971 Jun 12 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W823	2441117.12	1971 Jun 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W824	2441117.21	1971 Jun 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W825	2441117.23	1971 Jun 14 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W826	2441117.23	1971 Jun 14 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W827	2441117.34	1971 Jun 14 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W828	2441117.60	1971 Jun 15 0229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W829	2441118.14	1971 Jun 15 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W830	2441118.35	1971 Jun 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W832	2441119.11	1971 Jun 16 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W833	2441119.14	1971 Jun 16 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W834	2441119.17	1971 Jun 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A56	2441119.18	1971 Jun 16 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W835	2441119.25	1971 Jun 16 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W836	2441119.40	1971 Jun 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W837	2441119.60	1971 Jun 17 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W838	2441120.23	1971 Jun 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W839	2441120.58	1971 Jun 18 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W840	2441121.07	1971 Jun 18 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W841	2441121.12	1971 Jun 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W843	2441123.40	1971 Jun 20 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W845	2441124.06	1971 Jun 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W846	2441124.12	1971 Jun 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W847	2441124.12	1971 Jun 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W848	2441124.19	1971 Jun 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W849	2441124.23	1971 Jun 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W850	2441124.38	1971 Jun 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W851	2441124.56	1971 Jun 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W852	2441125.17	1971 Jun 22 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W853	2441126.08	1971 Jun 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W854	2441126.13	1971 Jun 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W855	2441126.19	1971 Jun 23 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y190	2441126.31	1971 Jun 23 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W857	2441126.31	1971 Jun 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W858	2441126.33	1971 Jun 23 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W859	2441126.56	1971 Jun 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W860	2441126.58	1971 Jun 24 0157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W861	2441127.16	1971 Jun 24 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W863	2441127.23	1971 Jun 24 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W864	2441127.24	1971 Jun 24 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W865	2441127.25	1971 Jun 24 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y192	2441127.42	1971 Jun 24 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W866	2441127.43	1971 Jun 24 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W867	2441128.10	1971 Jun 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W868	2441128.12	1971 Jun 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W869	2441128.21	1971 Jun 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W870	2441128.29	1971 Jun 25 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W871	2441128.38	1971 Jun 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W872	2441128.56	1971 Jun 26 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W873	2441131.06	1971 Jun 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W874	2441131.12	1971 Jun 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W875	2441131.16	1971 Jun 28 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W876	2441131.29	1971 Jun 28 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W877	2441131.38	1971 Jun 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W878	2441131.56	1971 Jun 29 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W879	2441131.77	1971 Jun 29 0622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W880	2441132.15	1971 Jun 29 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W881	2441132.24	1971 Jun 29 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W882	2441132.38	1971 Jun 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W883	2441133.09	1971 Jun 30 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W885	2441133.13	1971 Jun 30 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W886	2441133.13	1971 Jun 30 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W887	2441133.17	1971 Jun 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W888	2441133.19	1971 Jun 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W889	2441133.19	1971 Jun 30 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W890	2441133.21	1971 Jun 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W891	2441133.21	1971 Jun 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W892	2441133.23	1971 Jun 30 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W893	2441133.38	1971 Jun 30 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y200	2441133.40	1971 Jun 30 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W894	2441133.42	1971 Jun 30 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W896	2441134.39	1971 Jul 1 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W897	2441135.08	1971 Jul 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W898	2441135.12	1971 Jul 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W900	2441135.21	1971 Jul 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W901	2441135.25	1971 Jul 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W902	2441135.29	1971 Jul 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y203	2441135.34	1971 Jul 2 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W903	2441135.36	1971 Jul 2 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W904	2441135.38	1971 Jul 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W905	2441139.17	1971 Jul 6 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y207	2441139.33	1971 Jul 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W906	2441139.38	1971 Jul 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y209	2441139.92	1971 Jul 7 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W907	2441140.08	1971 Jul 7 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W908	2441140.08	1971 Jul 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W909	2441140.12	1971 Jul 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W910	2441140.12	1971 Jul 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y211	2441140.16	1971 Jul 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W912	2441140.20	1971 Jul 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W913	2441140.20	1971 Jul 7 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W914	2441140.32	1971 Jul 7 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W915	2441141.21	1971 Jul 8 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W916	2441141.38	1971 Jul 8 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W917	2441141.39	1971 Jul 8 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W918	2441142.05	1971 Jul 9 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W919	2441142.08	1971 Jul 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W920	2441142.12	1971 Jul 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W921	2441142.19	1971 Jul 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W922	2441142.31	1971 Jul 9 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W923	2441142.40	1971 Jul 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W924	2441145.07	1971 Jul 12 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W925	2441145.08	1971 Jul 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W926	2441145.13	1971 Jul 12 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W927	2441145.14	1971 Jul 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W929	2441145.19	1971 Jul 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W930	2441145.19	1971 Jul 12 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W931	2441145.21	1971 Jul 12 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W932	2441145.38	1971 Jul 12 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W933	2441146.38	1971 Jul 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y216	2441146.95	1971 Jul 14 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W934	2441147.08	1971 Jul 14 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W935	2441147.08	1971 Jul 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W936	2441147.12	1971 Jul 14 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W937	2441147.12	1971 Jul 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W938	2441147.15	1971 Jul 14 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W939	2441147.21	1971 Jul 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W940	2441147.21	1971 Jul 14 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y220	2441147.23	1971 Jul 14 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W941	2441147.39	1971 Jul 14 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W942	2441147.57	1971 Jul 15 0141:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W944	2441148.21	1971 Jul 15 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y221	2441148.38	1971 Jul 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W945	2441148.40	1971 Jul 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W946	2441149.06	1971 Jul 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W947	2441149.08	1971 Jul 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W948	2441149.12	1971 Jul 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W949	2441149.25	1971 Jul 16 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W950	2441149.31	1971 Jul 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W951	2441149.38	1971 Jul 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W952	2441149.56	1971 Jul 17 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W953	2441150.58	1971 Jul 18 0152:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W954	2441150.61	1971 Jul 18 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W955	2441152.06	1971 Jul 19 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W956	2441152.10	1971 Jul 19 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W957	2441152.12	1971 Jul 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W958	2441152.15	1971 Jul 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W959	2441152.21	1971 Jul 19 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W960	2441152.23	1971 Jul 19 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W962	2441152.38	1971 Jul 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W963	2441152.60	1971 Jul 20 0217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W964	2441153.38	1971 Jul 20 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W965	2441153.38	1971 Jul 20 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y223	2441153.93	1971 Jul 21 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W966	2441154.06	1971 Jul 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W967	2441154.08	1971 Jul 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W968	2441154.10	1971 Jul 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W969	2441154.12	1971 Jul 21 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W970	2441154.12	1971 Jul 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W972	2441154.18	1971 Jul 21 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W973	2441154.19	1971 Jul 21 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W974	2441154.22	1971 Jul 21 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W06	2441320.12	1972 Jan 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W07	2441320.23	1972 Jan 3 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W08	2441320.29	1972 Jan 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W09	2441320.35	1972 Jan 3 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W10	2441320.38	1972 Jan 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W12	2441321.37	1972 Jan 4 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W13	2441322.08	1972 Jan 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W14	2441322.10	1972 Jan 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W15	2441322.12	1972 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W17	2441322.23	1972 Jan 5 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W18	2441322.33	1972 Jan 5 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W19	2441322.38	1972 Jan 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W20	2441322.40	1972 Jan 5 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W21	2441322.41	1972 Jan 5 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W22	2441322.48	1972 Jan 5 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W23	2441322.59	1972 Jan 6 0203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W26	2441323.29	1972 Jan 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W27	2441323.31	1972 Jan 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W28	2441323.35	1972 Jan 6 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W29	2441323.38	1972 Jan 6 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W30	2441323.48	1972 Jan 6 2324:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W31	2441323.50	1972 Jan 7 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W32	2441324.08	1972 Jan 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W33	2441324.12	1972 Jan 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W34	2441324.13	1972 Jan 7 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W35	2441324.20	1972 Jan 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W36	2441324.20	1972 Jan 7 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W38	2441324.33	1972 Jan 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W39	2441324.33	1972 Jan 7 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W40	2441324.40	1972 Jan 7 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W41	2441327.08	1972 Jan 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A05	2441327.12	1972 Jan 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W42	2441327.17	1972 Jan 10 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W43	2441327.20	1972 Jan 10 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W44	2441327.28	1972 Jan 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W45	2441327.39	1972 Jan 10 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W46	2441328.10	1972 Jan 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W47	2441328.17	1972 Jan 11 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W48	2441328.24	1972 Jan 11 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y11	2441328.33	1972 Jan 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W49	2441329.08	1972 Jan 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W50	2441329.10	1972 Jan 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W51	2441329.12	1972 Jan 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W52	2441329.13	1972 Jan 12 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y19	2441329.19	1972 Jan 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W53	2441329.23	1972 Jan 12 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W54	2441329.29	1972 Jan 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W55	2441329.29	1972 Jan 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y20	2441329.30	1972 Jan 12 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W56	2441329.34	1972 Jan 12 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W57	2441329.38	1972 Jan 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W58	2441329.39	1972 Jan 12 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W60	2441330.16	1972 Jan 13 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W61	2441330.30	1972 Jan 13 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W62	2441330.31	1972 Jan 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W63	2441330.38	1972 Jan 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W64	2441331.08	1972 Jan 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W65	2441331.10	1972 Jan 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W66	2441331.12	1972 Jan 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W67	2441331.15	1972 Jan 14 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W68	2441331.21	1972 Jan 14 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W69	2441331.29	1972 Jan 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W70	2441331.45	1972 Jan 14 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W74	2441334.08	1972 Jan 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W75	2441334.10	1972 Jan 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W76	2441334.10	1972 Jan 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W77	2441334.12	1972 Jan 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W79	2441334.19	1972 Jan 17 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W80	2441334.23	1972 Jan 17 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W81	2441334.29	1972 Jan 17 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W82	2441334.38	1972 Jan 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W83	2441334.46	1972 Jan 17 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W85	2441335.18	1972 Jan 18 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W86	2441335.22	1972 Jan 18 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W87	2441335.35	1972 Jan 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W88	2441335.37	1972 Jan 18 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W90	2441336.10	1972 Jan 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W91	2441336.12	1972 Jan 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W93	2441336.18	1972 Jan 19 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W94	2441336.23	1972 Jan 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W96	2441336.25	1972 Jan 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W98	2441336.36	1972 Jan 19 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W99	2441336.45	1972 Jan 19 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W101	2441336.56	1972 Jan 20 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W102	2441337.13	1972 Jan 20 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W104	2441337.40	1972 Jan 20 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W105	2441337.54	1972 Jan 21 0100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W106	2441338.08	1972 Jan 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W107	2441338.12	1972 Jan 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W109	2441338.21	1972 Jan 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W110	2441338.25	1972 Jan 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W111	2441338.25	1972 Jan 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W112	2441338.29	1972 Jan 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W113	2441338.31	1972 Jan 21 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W114	2441338.33	1972 Jan 21 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W115	2441338.36	1972 Jan 21 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W116	2441338.37	1972 Jan 21 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W117	2441338.38	1972 Jan 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W118	2441338.47	1972 Jan 21 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W120	2441341.08	1972 Jan 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W121	2441341.10	1972 Jan 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W122	2441341.12	1972 Jan 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W124	2441341.20	1972 Jan 24 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W125	2441341.29	1972 Jan 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W126	2441341.46	1972 Jan 24 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W127	2441341.55	1972 Jan 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W128	2441341.57	1972 Jan 25 0147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W129	2441342.23	1972 Jan 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W130	2441342.25	1972 Jan 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y36	2441342.34	1972 Jan 25 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W131	2441342.42	1972 Jan 25 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W133	2441343.08	1972 Jan 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W134	2441343.10	1972 Jan 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W135	2441343.12	1972 Jan 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W136	2441343.15	1972 Jan 26 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A09	2441343.18	1972 Jan 26 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W137	2441343.22	1972 Jan 26 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y41	2441343.23	1972 Jan 26 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W139	2441343.41	1972 Jan 26 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W140	2441343.43	1972 Jan 26 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W141	2441343.57	1972 Jan 27 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W142	2441344.17	1972 Jan 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W143	2441344.29	1972 Jan 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W144	2441344.31	1972 Jan 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W145	2441345.08	1972 Jan 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W146	2441345.12	1972 Jan 28 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W147	2441345.12	1972 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W149	2441345.17	1972 Jan 28 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W150	2441345.29	1972 Jan 28 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W151	2441345.35	1972 Jan 28 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W152	2441345.56	1972 Jan 29 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W153	2441348.08	1972 Jan 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W154	2441348.12	1972 Jan 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W156	2441348.20	1972 Jan 31 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W157	2441348.30	1972 Jan 31 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W158	2441348.31	1972 Jan 31 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W159	2441348.33	1972 Jan 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W160	2441348.35	1972 Jan 31 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W161	2441348.46	1972 Jan 31 2256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W162	2441348.56	1972 Feb 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W164	2441349.23	1972 Feb 1 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W166	2441349.27	1972 Feb 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W167	2441349.27	1972 Feb 1 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W169	2441349.31	1972 Feb 1 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W172	2441350.08	1972 Feb 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W173	2441350.09	1972 Feb 2 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A15	2441350.16	1972 Feb 2 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W175	2441350.20	1972 Feb 2 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W176	2441350.31	1972 Feb 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W177	2441350.38	1972 Feb 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W178	2441350.56	1972 Feb 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W180	2441351.29	1972 Feb 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W181	2441352.08	1972 Feb 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W182	2441352.12	1972 Feb 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W184	2441352.20	1972 Feb 4 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W185	2441352.25	1972 Feb 4 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W186	2441352.29	1972 Feb 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W187	2441352.30	1972 Feb 4 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W188	2441352.50	1972 Feb 5 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W189	2441352.56	1972 Feb 5 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W192	2441355.08	1972 Feb 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W193	2441355.10	1972 Feb 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W194	2441355.12	1972 Feb 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W195	2441355.17	1972 Feb 7 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W196	2441355.20	1972 Feb 7 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W197	2441355.30	1972 Feb 7 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W198	2441355.36	1972 Feb 7 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W199	2441355.50	1972 Feb 7 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W201	2441356.29	1972 Feb 8 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W202	2441356.29	1972 Feb 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W203	2441356.38	1972 Feb 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W205	2441357.08	1972 Feb 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W206	2441357.10	1972 Feb 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W207	2441357.12	1972 Feb 9 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W208	2441357.17	1972 Feb 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W209	2441357.27	1972 Feb 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W210	2441357.30	1972 Feb 9 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W211	2441357.30	1972 Feb 9 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W212	2441357.35	1972 Feb 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W213	2441357.42	1972 Feb 9 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W214	2441357.44	1972 Feb 9 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W215	2441357.46	1972 Feb 9 2301:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W218	2441357.56	1972 Feb 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W219	2441358.17	1972 Feb 10 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y57	2441358.29	1972 Feb 10 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W220	2441358.31	1972 Feb 10 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y58	2441358.93	1972 Feb 11 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W223	2441359.08	1972 Feb 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W224	2441359.10	1972 Feb 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W225	2441359.12	1972 Feb 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W226	2441359.20	1972 Feb 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W227	2441359.23	1972 Feb 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W228	2441359.24	1972 Feb 11 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W230	2441359.26	1972 Feb 11 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y59	2441359.30	1972 Feb 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W231	2441359.33	1972 Feb 11 1948:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W232	2441359.38	1972 Feb 11 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W233	2441359.56	1972 Feb 12 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W235	2441362.06	1972 Feb 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W236	2441362.11	1972 Feb 14 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W237	2441362.12	1972 Feb 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W238	2441362.13	1972 Feb 14 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W239	2441362.16	1972 Feb 14 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W240	2441362.29	1972 Feb 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W241	2441362.38	1972 Feb 14 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y62	2441363.10	1972 Feb 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W244	2441363.18	1972 Feb 15 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y63	2441363.21	1972 Feb 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W245	2441363.24	1972 Feb 15 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y64	2441363.27	1972 Feb 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W247	2441363.50	1972 Feb 16 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W249	2441364.08	1972 Feb 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W250	2441364.10	1972 Feb 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W251	2441364.10	1972 Feb 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W252	2441364.11	1972 Feb 16 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W253	2441364.12	1972 Feb 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W255	2441364.17	1972 Feb 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y69	2441364.27	1972 Feb 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W256	2441364.31	1972 Feb 16 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W257	2441364.40	1972 Feb 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y73	2441365.19	1972 Feb 17 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W259	2441365.42	1972 Feb 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W260	2441365.43	1972 Feb 17 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W262	2441366.08	1972 Feb 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y75	2441366.10	1972 Feb 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W263	2441366.12	1972 Feb 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W264	2441366.14	1972 Feb 18 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W266	2441366.16	1972 Feb 18 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y76	2441366.17	1972 Feb 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W267	2441366.40	1972 Feb 18 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W268	2441366.54	1972 Feb 19 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W269	2441369.10	1972 Feb 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W270	2441370.12	1972 Feb 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W272	2441370.21	1972 Feb 22 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W273	2441370.36	1972 Feb 22 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W274	2441370.92	1972 Feb 23 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W276	2441371.08	1972 Feb 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y86	2441371.12	1972 Feb 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W277	2441371.12	1972 Feb 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W279	2441371.23	1972 Feb 23 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A18	2441371.25	1972 Feb 23 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W280	2441371.29	1972 Feb 23 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W281	2441371.33	1972 Feb 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W282	2441371.34	1972 Feb 23 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y87	2441371.48	1972 Feb 23 2332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W283	2441371.56	1972 Feb 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W284	2441372.15	1972 Feb 24 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W286	2441372.16	1972 Feb 24 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W287	2441372.25	1972 Feb 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W288	2441372.31	1972 Feb 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W289	2441372.38	1972 Feb 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W290	2441373.08	1972 Feb 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W291	2441373.12	1972 Feb 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W292	2441373.15	1972 Feb 25 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W293	2441373.22	1972 Feb 25 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W294	2441373.25	1972 Feb 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W295	2441373.38	1972 Feb 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W296	2441373.40	1972 Feb 25 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W297	2441373.56	1972 Feb 26 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W298	2441376.12	1972 Feb 28 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W299	2441376.12	1972 Feb 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W300	2441376.16	1972 Feb 28 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W301	2441376.17	1972 Feb 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W302	2441376.31	1972 Feb 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W303	2441376.33	1972 Feb 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W304	2441376.56	1972 Feb 29 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W305	2441378.11	1972 Mar 1 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W306	2441378.11	1972 Mar 1 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W307	2441378.12	1972 Mar 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W309	2441378.26	1972 Mar 1 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W310	2441378.31	1972 Mar 1 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W311	2441378.35	1972 Mar 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W312	2441378.56	1972 Mar 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W314	2441379.42	1972 Mar 2 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W315	2441380.10	1972 Mar 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W316	2441380.12	1972 Mar 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W317	2441380.15	1972 Mar 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W319	2441380.18	1972 Mar 3 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W320	2441380.26	1972 Mar 3 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W321	2441380.29	1972 Mar 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W322	2441380.32	1972 Mar 3 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W323	2441380.39	1972 Mar 3 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A22	2441383.09	1972 Mar 6 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W325	2441383.19	1972 Mar 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W326	2441383.19	1972 Mar 6 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W328	2441383.27	1972 Mar 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W329	2441383.29	1972 Mar 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W330	2441383.33	1972 Mar 6 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W331	2441383.37	1972 Mar 6 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W332	2441383.38	1972 Mar 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W333	2441384.09	1972 Mar 7 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W335	2441385.08	1972 Mar 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W336	2441385.12	1972 Mar 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W337	2441385.12	1972 Mar 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y97	2441385.19	1972 Mar 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W338	2441385.19	1972 Mar 8 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y98	2441385.27	1972 Mar 8 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W339	2441385.28	1972 Mar 8 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W340	2441385.29	1972 Mar 8 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W341	2441385.29	1972 Mar 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W343	2441387.08	1972 Mar 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W344	2441387.08	1972 Mar 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W345	2441387.12	1972 Mar 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W346	2441387.12	1972 Mar 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W347	2441387.15	1972 Mar 10 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W348	2441387.19	1972 Mar 10 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W349	2441387.22	1972 Mar 10 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W350	2441387.40	1972 Mar 10 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W351	2441387.56	1972 Mar 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W353	2441390.08	1972 Mar 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W354	2441390.12	1972 Mar 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W355	2441390.16	1972 Mar 13 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W356	2441390.23	1972 Mar 13 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W357	2441390.29	1972 Mar 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W359	2441392.08	1972 Mar 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W360	2441392.10	1972 Mar 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W361	2441392.12	1972 Mar 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W363	2441392.15	1972 Mar 15 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W364	2441392.18	1972 Mar 15 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W365	2441392.21	1972 Mar 15 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W367	2441392.29	1972 Mar 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W368	2441392.33	1972 Mar 15 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W369	2441392.34	1972 Mar 15 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W370	2441392.38	1972 Mar 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W371	2441392.51	1972 Mar 16 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W372	2441392.56	1972 Mar 16 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W374	2441392.60	1972 Mar 16 0219:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W375	2441393.11	1972 Mar 16 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W376	2441393.12	1972 Mar 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W377	2441393.17	1972 Mar 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W378	2441393.17	1972 Mar 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W379	2441393.29	1972 Mar 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A24	2441394.01	1972 Mar 17 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W380	2441394.08	1972 Mar 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W381	2441394.12	1972 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W382	2441394.12	1972 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W383	2441394.14	1972 Mar 17 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W384	2441394.17	1972 Mar 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W385	2441394.17	1972 Mar 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W386	2441394.25	1972 Mar 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W387	2441394.33	1972 Mar 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W389	2441394.56	1972 Mar 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W390	2441397.08	1972 Mar 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W391	2441397.08	1972 Mar 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W392	2441397.10	1972 Mar 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W393	2441397.12	1972 Mar 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W394	2441397.23	1972 Mar 20 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W395	2441397.23	1972 Mar 20 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W396	2441397.29	1972 Mar 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W397	2441397.31	1972 Mar 20 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W398	2441397.33	1972 Mar 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W403	2441399.08	1972 Mar 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W404	2441399.08	1972 Mar 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W405	2441399.10	1972 Mar 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W406	2441399.12	1972 Mar 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W407	2441399.18	1972 Mar 22 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W408	2441399.22	1972 Mar 22 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y115	2441399.22	1972 Mar 22 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W409	2441399.32	1972 Mar 22 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y116	2441399.33	1972 Mar 22 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W410	2441399.38	1972 Mar 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W411	2441399.56	1972 Mar 23 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W412	2441400.01	1972 Mar 23 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W414	2441401.03	1972 Mar 24 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W415	2441401.08	1972 Mar 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W416	2441401.10	1972 Mar 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W417	2441401.12	1972 Mar 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W418	2441401.26	1972 Mar 24 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W419	2441401.29	1972 Mar 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W420	2441401.33	1972 Mar 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W421	2441401.57	1972 Mar 25 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W423	2441404.01	1972 Mar 27 1219:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W424	2441404.08	1972 Mar 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W425	2441404.12	1972 Mar 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W426	2441404.20	1972 Mar 27 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W427	2441404.28	1972 Mar 27 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W428	2441404.33	1972 Mar 27 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W429	2441404.33	1972 Mar 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W430	2441404.56	1972 Mar 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W432	2441406.00	1972 Mar 29 1202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W433	2441406.08	1972 Mar 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W434	2441406.12	1972 Mar 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W435	2441406.23	1972 Mar 29 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A28	2441406.24	1972 Mar 29 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W436	2441406.28	1972 Mar 29 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A29	2441406.36	1972 Mar 29 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W437	2441406.36	1972 Mar 29 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W438	2441406.40	1972 Mar 29 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W439	2441406.56	1972 Mar 30 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W441	2441407.12	1972 Mar 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W442	2441407.29	1972 Mar 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W443	2441407.32	1972 Mar 30 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W445	2441408.00	1972 Mar 31 1156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W446	2441408.08	1972 Mar 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W447	2441408.11	1972 Mar 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W448	2441408.33	1972 Mar 31 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W449	2441408.38	1972 Mar 31 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W450	2441408.56	1972 Apr 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W451	2441411.00	1972 Apr 3 1159:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W452	2441411.08	1972 Apr 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W453	2441411.08	1972 Apr 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W454	2441411.12	1972 Apr 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W455	2441411.16	1972 Apr 3 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W456	2441411.17	1972 Apr 3 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W457	2441411.29	1972 Apr 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W458	2441411.33	1972 Apr 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W459	2441411.57	1972 Apr 4 0147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W460	2441412.30	1972 Apr 4 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W462	2441413.08	1972 Apr 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W463	2441413.10	1972 Apr 5 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W464	2441413.12	1972 Apr 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W465	2441413.13	1972 Apr 5 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W466	2441413.16	1972 Apr 5 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W467	2441413.21	1972 Apr 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W468	2441413.31	1972 Apr 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W469	2441413.56	1972 Apr 6 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W471	2441414.22	1972 Apr 6 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W472	2441415.08	1972 Apr 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W473	2441415.10	1972 Apr 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W474	2441415.11	1972 Apr 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W475	2441415.12	1972 Apr 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W476	2441415.14	1972 Apr 7 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W477	2441415.29	1972 Apr 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W478	2441415.56	1972 Apr 8 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W480	2441418.08	1972 Apr 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W481	2441418.10	1972 Apr 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W482	2441418.12	1972 Apr 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W483	2441418.12	1972 Apr 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W484	2441418.19	1972 Apr 10 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W485	2441418.30	1972 Apr 10 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W486	2441418.34	1972 Apr 10 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W487	2441418.40	1972 Apr 10 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W488	2441418.56	1972 Apr 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W489	2441419.21	1972 Apr 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W492	2441420.08	1972 Apr 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W493	2441420.10	1972 Apr 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W494	2441420.12	1972 Apr 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A30	2441420.20	1972 Apr 12 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W496	2441420.20	1972 Apr 12 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W497	2441420.29	1972 Apr 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W498	2441420.57	1972 Apr 13 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W500	2441422.04	1972 Apr 14 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W501	2441422.08	1972 Apr 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W502	2441422.12	1972 Apr 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W503	2441422.16	1972 Apr 14 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W504	2441422.17	1972 Apr 14 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W505	2441422.28	1972 Apr 14 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W506	2441422.33	1972 Apr 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W508	2441423.04	1972 Apr 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W509	2441424.31	1972 Apr 16 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W510	2441425.08	1972 Apr 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W511	2441425.10	1972 Apr 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W512	2441425.12	1972 Apr 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W513	2441425.22	1972 Apr 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W514	2441425.26	1972 Apr 17 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W515	2441425.31	1972 Apr 17 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W516	2441425.33	1972 Apr 17 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W517	2441425.40	1972 Apr 17 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W518	2441425.56	1972 Apr 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W519	2441426.14	1972 Apr 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W520	2441426.30	1972 Apr 18 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y128	2441426.92	1972 Apr 19 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W521	2441427.08	1972 Apr 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W522	2441427.10	1972 Apr 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W523	2441427.12	1972 Apr 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W524	2441427.17	1972 Apr 19 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W525	2441427.19	1972 Apr 19 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y131	2441427.20	1972 Apr 19 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y132	2441427.29	1972 Apr 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W526	2441427.29	1972 Apr 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W527	2441427.31	1972 Apr 19 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A33	2441427.34	1972 Apr 19 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A34	2441427.38	1972 Apr 19 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W528	2441427.50	1972 Apr 20 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W530	2441428.25	1972 Apr 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W531	2441429.08	1972 Apr 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W532	2441429.10	1972 Apr 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W533	2441429.12	1972 Apr 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W534	2441429.25	1972 Apr 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W535	2441429.29	1972 Apr 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A36	2441429.34	1972 Apr 21 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W536	2441429.56	1972 Apr 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W538	2441432.08	1972 Apr 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A37	2441432.09	1972 Apr 24 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W539	2441432.15	1972 Apr 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W540	2441432.17	1972 Apr 24 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W541	2441432.19	1972 Apr 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W542	2441432.23	1972 Apr 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W543	2441432.31	1972 Apr 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W544	2441432.34	1972 Apr 24 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W545	2441432.35	1972 Apr 24 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A38	2441432.42	1972 Apr 24 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W546	2441432.56	1972 Apr 25 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W548	2441433.12	1972 Apr 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W549	2441433.19	1972 Apr 25 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W550	2441433.19	1972 Apr 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W551	2441434.10	1972 Apr 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W552	2441434.12	1972 Apr 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W553	2441434.15	1972 Apr 26 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W554	2441434.20	1972 Apr 26 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W555	2441434.29	1972 Apr 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W556	2441434.42	1972 Apr 26 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W557	2441434.54	1972 Apr 27 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W558	2441434.57	1972 Apr 27 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W560	2441435.29	1972 Apr 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W561	2441435.31	1972 Apr 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W562	2441436.08	1972 Apr 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W563	2441436.10	1972 Apr 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W564	2441436.12	1972 Apr 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W565	2441436.15	1972 Apr 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W566	2441436.15	1972 Apr 28 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W567	2441436.27	1972 Apr 28 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W568	2441436.29	1972 Apr 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W569	2441436.29	1972 Apr 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W570	2441436.40	1972 Apr 28 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W571	2441436.55	1972 Apr 29 0110:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W572	2441439.07	1972 May 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W573	2441439.08	1972 May 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W574	2441439.08	1972 May 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W575	2441439.12	1972 May 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W576	2441439.15	1972 May 1 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W577	2441439.28	1972 May 1 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W578	2441439.32	1972 May 1 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W579	2441439.38	1972 May 1 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W580	2441439.46	1972 May 1 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W581	2441439.56	1972 May 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A42	2441440.21	1972 May 2 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y134	2441440.94	1972 May 3 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W583	2441441.08	1972 May 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W584	2441441.11	1972 May 3 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A43	2441441.11	1972 May 3 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W586	2441441.12	1972 May 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W587	2441441.12	1972 May 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W588	2441441.15	1972 May 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A44	2441441.16	1972 May 3 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W589	2441441.23	1972 May 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W590	2441441.29	1972 May 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W591	2441441.33	1972 May 3 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W592	2441441.44	1972 May 3 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W593	2441441.56	1972 May 4 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W594	2441442.14	1972 May 4 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W597	2441443.07	1972 May 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W598	2441443.08	1972 May 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W599	2441443.12	1972 May 5 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W600	2441443.12	1972 May 5 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W601	2441443.12	1972 May 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W602	2441443.15	1972 May 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W603	2441443.15	1972 May 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A46	2441443.25	1972 May 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W604	2441443.29	1972 May 5 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y136	2441443.30	1972 May 5 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A47	2441443.30	1972 May 5 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W605	2441443.32	1972 May 5 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W607	2441443.39	1972 May 5 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W608	2441443.57	1972 May 6 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W609	2441446.07	1972 May 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W610	2441446.08	1972 May 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W611	2441446.08	1972 May 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W612	2441446.10	1972 May 8 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W613	2441446.11	1972 May 8 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W615	2441446.12	1972 May 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W616	2441446.21	1972 May 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W617	2441446.31	1972 May 8 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W618	2441446.32	1972 May 8 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W619	2441446.37	1972 May 8 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W620	2441446.56	1972 May 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W621	2441447.09	1972 May 9 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W623	2441448.08	1972 May 10 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W624	2441448.08	1972 May 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W625	2441448.08	1972 May 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W626	2441448.11	1972 May 10 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A49	2441448.19	1972 May 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W628	2441448.21	1972 May 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W629	2441448.29	1972 May 10 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W630	2441448.29	1972 May 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W631	2441448.38	1972 May 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W632	2441448.57	1972 May 11 0136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A50	2441449.08	1972 May 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W633	2441449.12	1972 May 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W634	2441449.21	1972 May 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A51	2441449.31	1972 May 11 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W635	2441450.07	1972 May 12 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W636	2441450.08	1972 May 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W637	2441450.08	1972 May 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W639	2441450.12	1972 May 12 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W640	2441450.12	1972 May 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W641	2441450.15	1972 May 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A52	2441450.29	1972 May 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W642	2441450.41	1972 May 12 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W643	2441450.56	1972 May 13 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W644	2441453.08	1972 May 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W645	2441453.10	1972 May 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A53	2441453.11	1972 May 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W647	2441453.12	1972 May 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W648	2441453.17	1972 May 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W649	2441453.25	1972 May 15 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W650	2441453.27	1972 May 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A54	2441453.32	1972 May 15 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W651	2441453.38	1972 May 15 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W652	2441454.08	1972 May 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W655	2441455.07	1972 May 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W656	2441455.08	1972 May 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W657	2441455.09	1972 May 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W658	2441455.10	1972 May 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W659	2441455.11	1972 May 17 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W660	2441455.12	1972 May 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W663	2441455.23	1972 May 17 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W664	2441455.27	1972 May 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A55	2441455.35	1972 May 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W665	2441455.39	1972 May 17 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y140	2441455.44	1972 May 17 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W666	2441455.46	1972 May 17 2255:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W667	2441455.47	1972 May 17 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A56	2441455.56	1972 May 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W668	2441456.11	1972 May 18 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W669	2441456.12	1972 May 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W671	2441457.06	1972 May 19 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W672	2441457.08	1972 May 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W673	2441457.10	1972 May 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W675	2441457.12	1972 May 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y141	2441457.15	1972 May 19 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W676	2441457.17	1972 May 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A57	2441457.29	1972 May 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W677	2441457.38	1972 May 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W678	2441460.12	1972 May 22 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W679	2441460.12	1972 May 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W680	2441460.15	1972 May 22 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W681	2441460.21	1972 May 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W682	2441460.29	1972 May 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W683	2441460.38	1972 May 22 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W684	2441460.56	1972 May 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W686	2441462.08	1972 May 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W688	2441462.11	1972 May 24 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W689	2441462.12	1972 May 24 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W690	2441462.18	1972 May 24 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W691	2441462.18	1972 May 24 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W692	2441462.23	1972 May 24 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A60	2441462.27	1972 May 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W693	2441462.31	1972 May 24 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W695	2441464.08	1972 May 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W696	2441464.08	1972 May 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W697	2441464.10	1972 May 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W698	2441464.10	1972 May 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W700	2441464.12	1972 May 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W701	2441464.25	1972 May 26 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W702	2441464.27	1972 May 26 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W703	2441464.29	1972 May 26 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W704	2441464.37	1972 May 26 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W706	2441468.12	1972 May 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W707	2441468.21	1972 May 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W708	2441468.28	1972 May 30 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W709	2441468.39	1972 May 30 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W714	2441468.93	1972 May 31 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W715	2441469.06	1972 May 31 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W716	2441469.07	1972 May 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W717	2441469.08	1972 May 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W718	2441469.09	1972 May 31 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W719	2441469.11	1972 May 31 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W721	2441469.11	1972 May 31 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W722	2441469.12	1972 May 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A61	2441469.16	1972 May 31 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W723	2441469.18	1972 May 31 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W724	2441469.24	1972 May 31 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W725	2441469.26	1972 May 31 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y143	2441469.38	1972 May 31 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W726	2441469.40	1972 May 31 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W727	2441469.50	1972 Jun 1 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W728	2441470.66	1972 Jun 2 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W729	2441470.86	1972 Jun 2 0832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W730	2441471.08	1972 Jun 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W731	2441471.08	1972 Jun 2 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W732	2441471.12	1972 Jun 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W733	2441471.17	1972 Jun 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W734	2441471.29	1972 Jun 2 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W735	2441471.38	1972 Jun 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W736	2441471.42	1972 Jun 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W737	2441471.56	1972 Jun 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W738	2441471.68	1972 Jun 3 0424:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W739	2441474.07	1972 Jun 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W740	2441474.08	1972 Jun 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W741	2441474.12	1972 Jun 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W742	2441474.13	1972 Jun 5 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W743	2441474.23	1972 Jun 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W744	2441474.31	1972 Jun 5 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W745	2441474.48	1972 Jun 5 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A62	2441475.29	1972 Jun 6 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W746	2441476.08	1972 Jun 7 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W747	2441476.08	1972 Jun 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W748	2441476.10	1972 Jun 7 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W749	2441476.10	1972 Jun 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W750	2441476.12	1972 Jun 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W751	2441476.23	1972 Jun 7 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W752	2441476.24	1972 Jun 7 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W753	2441476.38	1972 Jun 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W754	2441476.50	1972 Jun 7 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W755	2441477.45	1972 Jun 8 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W756	2441478.08	1972 Jun 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W757	2441478.08	1972 Jun 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W758	2441478.09	1972 Jun 9 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W759	2441478.12	1972 Jun 9 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W760	2441478.12	1972 Jun 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W761	2441478.29	1972 Jun 9 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W762	2441478.38	1972 Jun 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W763	2441478.41	1972 Jun 9 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W764	2441478.50	1972 Jun 9 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W765	2441480.92	1972 Jun 12 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W766	2441481.04	1972 Jun 12 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W767	2441481.12	1972 Jun 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W768	2441481.17	1972 Jun 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W769	2441481.17	1972 Jun 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W770	2441481.26	1972 Jun 12 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W771	2441481.29	1972 Jun 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W772	2441481.39	1972 Jun 12 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W773	2441481.44	1972 Jun 12 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W774	2441482.05	1972 Jun 13 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W775	2441482.15	1972 Jun 13 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W776	2441483.04	1972 Jun 14 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W777	2441483.07	1972 Jun 14 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W778	2441483.08	1972 Jun 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W779	2441483.11	1972 Jun 14 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W780	2441483.12	1972 Jun 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W781	2441483.17	1972 Jun 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y146	2441483.40	1972 Jun 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W782	2441483.41	1972 Jun 14 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W783	2441483.42	1972 Jun 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W784	2441483.50	1972 Jun 14 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W786	2441484.16	1972 Jun 15 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W787	2441484.26	1972 Jun 15 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W788	2441484.32	1972 Jun 15 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W789	2441485.08	1972 Jun 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W790	2441485.12	1972 Jun 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W791	2441485.12	1972 Jun 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W792	2441485.16	1972 Jun 16 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W793	2441485.17	1972 Jun 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W794	2441485.40	1972 Jun 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W795	2441485.42	1972 Jun 16 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W796	2441485.49	1972 Jun 16 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W797	2441485.53	1972 Jun 17 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W798	2441486.12	1972 Jun 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W799	2441487.12	1972 Jun 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W800	2441488.12	1972 Jun 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W801	2441488.17	1972 Jun 19 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W802	2441488.19	1972 Jun 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W803	2441488.22	1972 Jun 19 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W804	2441488.29	1972 Jun 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W805	2441488.34	1972 Jun 19 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W806	2441488.44	1972 Jun 19 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W807	2441488.49	1972 Jun 19 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W808	2441489.09	1972 Jun 20 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W809	2441489.15	1972 Jun 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W810	2441489.23	1972 Jun 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W811	2441490.10	1972 Jun 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W812	2441490.14	1972 Jun 21 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W813	2441490.16	1972 Jun 21 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W814	2441490.17	1972 Jun 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W815	2441490.23	1972 Jun 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W816	2441490.45	1972 Jun 21 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W817	2441490.50	1972 Jun 21 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W818	2441491.08	1972 Jun 22 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A68	2441491.11	1972 Jun 22 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W819	2441491.12	1972 Jun 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W820	2441491.15	1972 Jun 22 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W821	2441491.16	1972 Jun 22 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W822	2441491.22	1972 Jun 22 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W823	2441492.06	1972 Jun 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W824	2441492.12	1972 Jun 23 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W825	2441492.12	1972 Jun 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W826	2441492.12	1972 Jun 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A69	2441492.15	1972 Jun 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W827	2441492.28	1972 Jun 23 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W828	2441492.43	1972 Jun 23 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W829	2441492.49	1972 Jun 23 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W830	2441493.12	1972 Jun 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W831	2441495.08	1972 Jun 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W832	2441495.12	1972 Jun 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W833	2441495.20	1972 Jun 26 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W834	2441495.27	1972 Jun 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W835	2441495.46	1972 Jun 26 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W836	2441495.52	1972 Jun 27 0026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W837	2441497.07	1972 Jun 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W838	2441497.12	1972 Jun 28 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W839	2441497.14	1972 Jun 28 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W840	2441497.15	1972 Jun 28 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W841	2441497.19	1972 Jun 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A70	2441497.22	1972 Jun 28 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W843	2441497.27	1972 Jun 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W844	2441497.49	1972 Jun 28 2348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W845	2441498.08	1972 Jun 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W846	2441498.09	1972 Jun 29 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W849	2441499.07	1972 Jun 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W850	2441499.08	1972 Jun 30 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W852	2441499.31	1972 Jun 30 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W853	2441499.34	1972 Jun 30 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y149	2441499.35	1972 Jun 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W854	2441499.37	1972 Jun 30 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W855	2441499.49	1972 Jun 30 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W856	2441502.06	1972 Jul 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W857	2441502.07	1972 Jul 3 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W858	2441502.12	1972 Jul 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W859	2441502.25	1972 Jul 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W860	2441504.06	1972 Jul 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W861	2441504.11	1972 Jul 5 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W862	2441504.12	1972 Jul 5 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A71	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W864	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W865	2441504.12	1972 Jul 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W866	2441504.28	1972 Jul 5 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W867	2441504.38	1972 Jul 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W868	2441504.52	1972 Jul 6 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W869	2441505.09	1972 Jul 6 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W870	2441505.12	1972 Jul 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W871	2441506.06	1972 Jul 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W872	2441506.07	1972 Jul 7 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W873	2441506.09	1972 Jul 7 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W874	2441506.10	1972 Jul 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W875	2441506.13	1972 Jul 7 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W876	2441506.14	1972 Jul 7 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W877	2441506.17	1972 Jul 7 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W878	2441506.21	1972 Jul 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W879	2441506.27	1972 Jul 7 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W880	2441506.38	1972 Jul 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W881	2441507.12	1972 Jul 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W882	2441509.06	1972 Jul 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W883	2441509.07	1972 Jul 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W884	2441509.12	1972 Jul 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W885	2441509.20	1972 Jul 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W886	2441509.21	1972 Jul 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W887	2441509.31	1972 Jul 10 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W888	2441509.39	1972 Jul 10 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W889	2441509.60	1972 Jul 11 0220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W890	2441510.27	1972 Jul 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W891	2441511.07	1972 Jul 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W892	2441511.12	1972 Jul 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W893	2441511.13	1972 Jul 12 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W894	2441511.14	1972 Jul 12 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W895	2441511.20	1972 Jul 12 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W896	2441511.27	1972 Jul 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y163	2441511.42	1972 Jul 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W899	2441511.44	1972 Jul 12 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W902	2441512.31	1972 Jul 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W906	2441513.07	1972 Jul 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W907	2441513.08	1972 Jul 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W908	2441513.10	1972 Jul 14 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W910	2441513.12	1972 Jul 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W912	2441513.42	1972 Jul 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A75	2441513.49	1972 Jul 14 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W913	2441516.07	1972 Jul 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W914	2441516.08	1972 Jul 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W915	2441516.08	1972 Jul 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W916	2441516.12	1972 Jul 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W917	2441516.19	1972 Jul 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W918	2441516.24	1972 Jul 17 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W919	2441516.27	1972 Jul 17 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W920	2441516.29	1972 Jul 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W921	2441516.42	1972 Jul 17 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W922	2441517.04	1972 Jul 18 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W923	2441517.08	1972 Jul 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A78	2441518.07	1972 Jul 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W924	2441518.08	1972 Jul 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W925	2441518.10	1972 Jul 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W926	2441518.10	1972 Jul 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A79	2441518.12	1972 Jul 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W927	2441518.12	1972 Jul 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W928	2441518.13	1972 Jul 19 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W929	2441518.20	1972 Jul 19 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W930	2441518.20	1972 Jul 19 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W931	2441518.21	1972 Jul 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W932	2441518.21	1972 Jul 19 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W933	2441518.22	1972 Jul 19 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W934	2441518.25	1972 Jul 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W935	2441518.38	1972 Jul 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W936	2441520.07	1972 Jul 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W937	2441520.08	1972 Jul 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W938	2441520.08	1972 Jul 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W940	2441520.12	1972 Jul 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W941	2441520.22	1972 Jul 21 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W942	2441520.26	1972 Jul 21 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W943	2441520.28	1972 Jul 21 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W944	2441520.30	1972 Jul 21 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W945	2441520.42	1972 Jul 21 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W946	2441523.07	1972 Jul 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W947	2441523.08	1972 Jul 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W948	2441523.12	1972 Jul 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W949	2441523.19	1972 Jul 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W950	2441523.27	1972 Jul 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W951	2441523.30	1972 Jul 24 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W952	2441523.42	1972 Jul 24 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W953	2441524.08	1972 Jul 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W954	2441524.08	1972 Jul 25 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W955	2441524.12	1972 Jul 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W956	2441524.17	1972 Jul 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W957	2441524.62	1972 Jul 26 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W958	2441525.06	1972 Jul 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W959	2441525.07	1972 Jul 26 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W960	2441525.09	1972 Jul 26 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W961	2441525.09	1972 Jul 26 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W963	2441525.14	1972 Jul 26 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y174	2441525.14	1972 Jul 26 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W964	2441525.18	1972 Jul 26 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y175	2441525.19	1972 Jul 26 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W965	2441525.20	1972 Jul 26 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W966	2441525.25	1972 Jul 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W967	2441525.27	1972 Jul 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W968	2441525.38	1972 Jul 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W969	2441525.50	1972 Jul 27 0007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W970	2441526.25	1972 Jul 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W971	2441527.07	1972 Jul 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W972	2441527.11	1972 Jul 28 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W973	2441527.12	1972 Jul 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W974	2441527.17	1972 Jul 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W975	2441527.24	1972 Jul 28 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W976	2441527.25	1972 Jul 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W977	2441527.28	1972 Jul 28 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W978	2441527.30	1972 Jul 28 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y177	2441527.42	1972 Jul 28 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W979	2441527.43	1972 Jul 28 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W980	2441527.49	1972 Jul 28 2348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W982	2441530.08	1972 Jul 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W06	2441685.29	1973 Jan 2 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W07	2441685.46	1973 Jan 2 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W08	2441685.51	1973 Jan 3 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y15	2441686.09	1973 Jan 3 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W09	2441686.14	1973 Jan 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W10	2441686.18	1973 Jan 3 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W11	2441686.19	1973 Jan 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W13	2441686.26	1973 Jan 3 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W14	2441686.29	1973 Jan 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W15	2441686.29	1973 Jan 3 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W16	2441686.31	1973 Jan 3 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W17	2441686.40	1973 Jan 3 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W18	2441686.50	1973 Jan 3 2353:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W20	2441687.20	1973 Jan 4 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W21	2441687.22	1973 Jan 4 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W22	2441687.31	1973 Jan 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W23	2441687.38	1973 Jan 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W25	2441688.16	1973 Jan 5 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W26	2441688.19	1973 Jan 5 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W27	2441688.23	1973 Jan 5 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W28	2441688.27	1973 Jan 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W29	2441688.29	1973 Jan 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W30	2441688.41	1973 Jan 5 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W31	2441688.51	1973 Jan 6 0019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W34	2441691.08	1973 Jan 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W35	2441691.18	1973 Jan 8 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W37	2441691.22	1973 Jan 8 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W38	2441691.24	1973 Jan 8 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W39	2441691.25	1973 Jan 8 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W40	2441691.26	1973 Jan 8 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W41	2441691.34	1973 Jan 8 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W42	2441691.39	1973 Jan 8 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W43	2441691.49	1973 Jan 8 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W44	2441692.19	1973 Jan 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W45	2441692.30	1973 Jan 9 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W47	2441692.35	1973 Jan 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W48	2441693.10	1973 Jan 10 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W49	2441693.16	1973 Jan 10 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W50	2441693.19	1973 Jan 10 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W52	2441693.20	1973 Jan 10 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y28	2441693.21	1973 Jan 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W53	2441693.21	1973 Jan 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W54	2441693.24	1973 Jan 10 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W55	2441693.29	1973 Jan 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W56	2441693.31	1973 Jan 10 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y29	2441693.33	1973 Jan 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W57	2441693.33	1973 Jan 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W58	2441693.35	1973 Jan 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W59	2441693.49	1973 Jan 10 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W61	2441694.24	1973 Jan 11 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W62	2441694.35	1973 Jan 11 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W63	2441694.49	1973 Jan 11 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W64	2441694.71	1973 Jan 12 0504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W65	2441694.86	1973 Jan 12 0835:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W66	2441694.86	1973 Jan 12 0835:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W67	2441694.94	1973 Jan 12 1034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W68	2441695.10	1973 Jan 12 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W69	2441695.15	1973 Jan 12 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W71	2441695.20	1973 Jan 12 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W72	2441695.22	1973 Jan 12 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W73	2441695.27	1973 Jan 12 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W74	2441695.28	1973 Jan 12 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W75	2441695.35	1973 Jan 12 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W76	2441695.38	1973 Jan 12 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W77	2441695.49	1973 Jan 12 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W78	2441696.47	1973 Jan 13 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W79	2441698.12	1973 Jan 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W80	2441698.18	1973 Jan 15 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W81	2441698.20	1973 Jan 15 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A02	2441698.26	1973 Jan 15 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W82	2441698.26	1973 Jan 15 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W83	2441698.27	1973 Jan 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W85	2441698.40	1973 Jan 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W86	2441698.49	1973 Jan 15 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W88	2441699.20	1973 Jan 16 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W89	2441699.29	1973 Jan 16 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W90	2441699.29	1973 Jan 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W91	2441699.31	1973 Jan 16 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W92	2441699.38	1973 Jan 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W93	2441700.09	1973 Jan 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W94	2441700.13	1973 Jan 17 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W96	2441700.19	1973 Jan 17 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W97	2441700.20	1973 Jan 17 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y35	2441700.21	1973 Jan 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W99	2441700.29	1973 Jan 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W100	2441700.33	1973 Jan 17 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W101	2441700.33	1973 Jan 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y36	2441700.33	1973 Jan 17 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W102	2441700.37	1973 Jan 17 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W103	2441700.40	1973 Jan 17 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W104	2441700.49	1973 Jan 17 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W105	2441701.32	1973 Jan 18 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W106	2441701.38	1973 Jan 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W107	2441702.10	1973 Jan 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W109	2441702.20	1973 Jan 19 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W110	2441702.20	1973 Jan 19 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W112	2441702.21	1973 Jan 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W113	2441702.28	1973 Jan 19 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W114	2441702.31	1973 Jan 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W115	2441702.38	1973 Jan 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W116	2441702.49	1973 Jan 19 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W117	2441705.18	1973 Jan 22 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W118	2441705.18	1973 Jan 22 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W119	2441705.19	1973 Jan 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W120	2441705.31	1973 Jan 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W121	2441705.31	1973 Jan 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W123	2441705.40	1973 Jan 22 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W124	2441705.49	1973 Jan 22 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W126	2441706.15	1973 Jan 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W127	2441706.31	1973 Jan 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W128	2441706.34	1973 Jan 23 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W129	2441706.38	1973 Jan 23 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W130	2441706.44	1973 Jan 23 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W131	2441707.10	1973 Jan 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W133	2441707.17	1973 Jan 24 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W134	2441707.19	1973 Jan 24 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y43	2441707.21	1973 Jan 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y44	2441707.25	1973 Jan 24 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W135	2441707.27	1973 Jan 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W136	2441707.29	1973 Jan 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W137	2441707.44	1973 Jan 24 2232:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W138	2441707.49	1973 Jan 24 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W139	2441708.32	1973 Jan 25 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W141	2441709.11	1973 Jan 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W142	2441709.12	1973 Jan 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W143	2441709.13	1973 Jan 26 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W144	2441709.14	1973 Jan 26 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W145	2441709.28	1973 Jan 26 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W146	2441709.30	1973 Jan 26 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W147	2441709.49	1973 Jan 26 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W149	2441711.77	1973 Jan 29 0633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W150	2441712.10	1973 Jan 29 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W151	2441712.18	1973 Jan 29 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W152	2441712.23	1973 Jan 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W153	2441712.35	1973 Jan 29 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W154	2441712.40	1973 Jan 29 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W155	2441712.49	1973 Jan 29 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W156	2441713.26	1973 Jan 30 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W157	2441713.31	1973 Jan 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W158	2441713.38	1973 Jan 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W159	2441714.10	1973 Jan 31 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W160	2441714.12	1973 Jan 31 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y56	2441714.21	1973 Jan 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W161	2441714.26	1973 Jan 31 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W162	2441714.28	1973 Jan 31 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y57	2441714.29	1973 Jan 31 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W163	2441714.31	1973 Jan 31 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W164	2441714.31	1973 Jan 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y58	2441714.38	1973 Jan 31 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W165	2441714.40	1973 Jan 31 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W166	2441714.49	1973 Jan 31 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W168	2441715.24	1973 Feb 1 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W169	2441715.33	1973 Feb 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W170	2441715.41	1973 Feb 1 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W173	2441716.10	1973 Feb 2 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W174	2441716.12	1973 Feb 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W175	2441716.29	1973 Feb 2 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W176	2441716.30	1973 Feb 2 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W177	2441716.35	1973 Feb 2 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y61	2441716.35	1973 Feb 2 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W178	2441716.44	1973 Feb 2 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W179	2441716.49	1973 Feb 2 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A05	2441719.18	1973 Feb 5 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W182	2441719.19	1973 Feb 5 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W183	2441719.27	1973 Feb 5 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W184	2441719.30	1973 Feb 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W185	2441719.34	1973 Feb 5 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W186	2441719.48	1973 Feb 5 2332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W187	2441719.49	1973 Feb 5 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W189	2441720.10	1973 Feb 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W190	2441720.10	1973 Feb 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W191	2441720.27	1973 Feb 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W192	2441720.32	1973 Feb 6 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W195	2441721.12	1973 Feb 7 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W196	2441721.20	1973 Feb 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y69	2441721.21	1973 Feb 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W197	2441721.25	1973 Feb 7 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W198	2441721.27	1973 Feb 7 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y70	2441721.29	1973 Feb 7 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W199	2441721.29	1973 Feb 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W200	2441721.31	1973 Feb 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W201	2441721.40	1973 Feb 7 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W202	2441721.50	1973 Feb 7 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W205	2441722.08	1973 Feb 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W206	2441722.12	1973 Feb 8 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W207	2441722.12	1973 Feb 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W208	2441722.25	1973 Feb 8 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A06	2441722.33	1973 Feb 8 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W209	2441722.40	1973 Feb 8 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W211	2441723.09	1973 Feb 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W212	2441723.10	1973 Feb 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W213	2441723.13	1973 Feb 9 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y73	2441723.21	1973 Feb 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W215	2441723.31	1973 Feb 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W216	2441723.33	1973 Feb 9 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W217	2441723.42	1973 Feb 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W218	2441723.49	1973 Feb 9 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W219	2441726.10	1973 Feb 12 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W220	2441726.19	1973 Feb 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W221	2441726.25	1973 Feb 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W222	2441726.26	1973 Feb 12 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W223	2441726.28	1973 Feb 12 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W224	2441726.30	1973 Feb 12 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W225	2441726.36	1973 Feb 12 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W227	2441726.38	1973 Feb 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W228	2441726.49	1973 Feb 12 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W231	2441727.24	1973 Feb 13 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W232	2441727.29	1973 Feb 13 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W233	2441727.33	1973 Feb 13 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W234	2441727.39	1973 Feb 13 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W235	2441728.08	1973 Feb 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W236	2441728.11	1973 Feb 14 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W237	2441728.13	1973 Feb 14 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W238	2441728.14	1973 Feb 14 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W240	2441728.20	1973 Feb 14 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y79	2441728.21	1973 Feb 14 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W241	2441728.27	1973 Feb 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W242	2441728.29	1973 Feb 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W243	2441728.31	1973 Feb 14 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W244	2441728.33	1973 Feb 14 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y80	2441728.38	1973 Feb 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W245	2441728.38	1973 Feb 14 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W246	2441728.50	1973 Feb 14 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W248	2441729.25	1973 Feb 15 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W249	2441729.39	1973 Feb 15 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W250	2441729.42	1973 Feb 15 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W251	2441730.08	1973 Feb 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W252	2441730.09	1973 Feb 16 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y81	2441730.23	1973 Feb 16 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W254	2441730.26	1973 Feb 16 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W255	2441730.38	1973 Feb 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W256	2441730.49	1973 Feb 16 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W258	2441734.09	1973 Feb 20 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W259	2441734.12	1973 Feb 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W261	2441734.24	1973 Feb 20 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W262	2441734.28	1973 Feb 20 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W263	2441734.32	1973 Feb 20 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W265	2441735.12	1973 Feb 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W266	2441735.15	1973 Feb 21 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W267	2441735.27	1973 Feb 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W268	2441735.29	1973 Feb 21 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W269	2441735.31	1973 Feb 21 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W270	2441735.35	1973 Feb 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W271	2441735.44	1973 Feb 21 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W272	2441735.49	1973 Feb 21 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W274	2441736.29	1973 Feb 22 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W275	2441736.39	1973 Feb 22 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W276	2441736.39	1973 Feb 22 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W278	2441737.12	1973 Feb 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W279	2441737.15	1973 Feb 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W280	2441737.16	1973 Feb 23 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y89	2441737.21	1973 Feb 23 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W281	2441737.24	1973 Feb 23 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W282	2441737.31	1973 Feb 23 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W283	2441737.35	1973 Feb 23 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W284	2441737.38	1973 Feb 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W285	2441737.49	1973 Feb 23 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W287	2441740.09	1973 Feb 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W288	2441740.19	1973 Feb 26 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W289	2441740.27	1973 Feb 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W290	2441740.36	1973 Feb 26 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W291	2441740.38	1973 Feb 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W292	2441741.24	1973 Feb 27 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W293	2441741.29	1973 Feb 27 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W294	2441741.35	1973 Feb 27 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W295	2441741.44	1973 Feb 27 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W296	2441741.49	1973 Feb 27 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W297	2441742.12	1973 Feb 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W298	2441742.14	1973 Feb 28 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W299	2441742.19	1973 Feb 28 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y102	2441742.21	1973 Feb 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W300	2441742.29	1973 Feb 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W301	2441742.30	1973 Feb 28 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A11	2441742.33	1973 Feb 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W302	2441742.38	1973 Feb 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W303	2441742.49	1973 Feb 28 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W305	2441743.10	1973 Mar 1 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W307	2441743.26	1973 Mar 1 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W308	2441743.39	1973 Mar 1 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W309	2441744.08	1973 Mar 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W310	2441744.08	1973 Mar 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W311	2441744.12	1973 Mar 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W312	2441744.13	1973 Mar 2 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W314	2441744.30	1973 Mar 2 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W315	2441744.32	1973 Mar 2 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y107	2441744.38	1973 Mar 2 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W316	2441744.40	1973 Mar 2 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W317	2441744.49	1973 Mar 2 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W318	2441747.08	1973 Mar 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W319	2441747.09	1973 Mar 5 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W321	2441747.20	1973 Mar 5 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W322	2441747.25	1973 Mar 5 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W323	2441747.30	1973 Mar 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W324	2441747.38	1973 Mar 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W325	2441747.49	1973 Mar 5 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W327	2441748.21	1973 Mar 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A12	2441748.27	1973 Mar 6 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W328	2441748.33	1973 Mar 6 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W329	2441748.39	1973 Mar 6 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W330	2441748.58	1973 Mar 7 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W332	2441749.08	1973 Mar 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W333	2441749.09	1973 Mar 7 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W334	2441749.14	1973 Mar 7 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W336	2441749.16	1973 Mar 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A14	2441749.20	1973 Mar 7 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W337	2441749.21	1973 Mar 7 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W338	2441749.30	1973 Mar 7 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y116	2441749.31	1973 Mar 7 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W339	2441749.31	1973 Mar 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W340	2441749.40	1973 Mar 7 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W341	2441749.51	1973 Mar 8 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W342	2441750.08	1973 Mar 8 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W343	2441750.18	1973 Mar 8 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W345	2441750.40	1973 Mar 8 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W346	2441751.09	1973 Mar 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y122	2441751.15	1973 Mar 9 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W348	2441751.19	1973 Mar 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W349	2441751.25	1973 Mar 9 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W350	2441751.31	1973 Mar 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W351	2441751.33	1973 Mar 9 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W352	2441751.40	1973 Mar 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W353	2441754.10	1973 Mar 12 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W354	2441754.15	1973 Mar 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W355	2441754.15	1973 Mar 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-A15	2441754.16	1973 Mar 12 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W357	2441754.19	1973 Mar 12 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W358	2441754.29	1973 Mar 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W359	2441754.31	1973 Mar 12 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W360	2441754.36	1973 Mar 12 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W361	2441754.38	1973 Mar 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W362	2441754.42	1973 Mar 12 2208:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A16	2441755.25	1973 Mar 13 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W364	2441755.37	1973 Mar 13 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W365	2441756.12	1973 Mar 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W367	2441756.16	1973 Mar 14 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W368	2441756.17	1973 Mar 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W369	2441756.21	1973 Mar 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W370	2441756.26	1973 Mar 14 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y133	2441756.29	1973 Mar 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y134	2441756.31	1973 Mar 14 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W371	2441756.32	1973 Mar 14 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W372	2441756.34	1973 Mar 14 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W373	2441756.38	1973 Mar 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W374	2441756.51	1973 Mar 15 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W375	2441757.15	1973 Mar 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W376	2441757.15	1973 Mar 15 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W378	2441757.26	1973 Mar 15 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W379	2441757.38	1973 Mar 15 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A17	2441758.08	1973 Mar 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W380	2441758.08	1973 Mar 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W382	2441758.19	1973 Mar 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W383	2441758.26	1973 Mar 16 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W384	2441758.29	1973 Mar 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W385	2441758.30	1973 Mar 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W386	2441758.44	1973 Mar 16 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W387	2441758.49	1973 Mar 16 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W389	2441761.19	1973 Mar 19 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W390	2441761.27	1973 Mar 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W391	2441761.28	1973 Mar 19 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W392	2441761.32	1973 Mar 19 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W393	2441761.32	1973 Mar 19 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W394	2441761.36	1973 Mar 19 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W395	2441761.40	1973 Mar 19 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W396	2441762.12	1973 Mar 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W398	2441762.24	1973 Mar 20 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W399	2441762.25	1973 Mar 20 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W400	2441762.40	1973 Mar 20 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W401	2441763.11	1973 Mar 21 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W402	2441763.15	1973 Mar 21 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W404	2441763.19	1973 Mar 21 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y147	2441763.21	1973 Mar 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W405	2441763.24	1973 Mar 21 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W406	2441763.29	1973 Mar 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W407	2441763.30	1973 Mar 21 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A18	2441763.34	1973 Mar 21 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W408	2441763.40	1973 Mar 21 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W410	2441764.32	1973 Mar 22 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W411	2441764.40	1973 Mar 22 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W412	2441764.95	1973 Mar 23 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W413	2441765.09	1973 Mar 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W414	2441765.13	1973 Mar 23 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W415	2441765.14	1973 Mar 23 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W417	2441765.19	1973 Mar 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W418	2441765.22	1973 Mar 23 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W419	2441765.30	1973 Mar 23 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W420	2441765.32	1973 Mar 23 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y150	2441765.38	1973 Mar 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W421	2441765.38	1973 Mar 23 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W422	2441765.40	1973 Mar 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W423	2441768.09	1973 Mar 26 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W424	2441768.09	1973 Mar 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W425	2441768.09	1973 Mar 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W427	2441768.29	1973 Mar 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W428	2441768.30	1973 Mar 26 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W429	2441768.34	1973 Mar 26 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W430	2441768.38	1973 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W431	2441768.50	1973 Mar 27 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W432	2441768.70	1973 Mar 27 0444:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W433	2441768.91	1973 Mar 27 0945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W435	2441769.25	1973 Mar 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W436	2441769.30	1973 Mar 27 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W437	2441769.39	1973 Mar 27 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W438	2441770.09	1973 Mar 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W439	2441770.10	1973 Mar 28 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W440	2441770.11	1973 Mar 28 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W441	2441770.12	1973 Mar 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W443	2441770.19	1973 Mar 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W444	2441770.24	1973 Mar 28 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W445	2441770.30	1973 Mar 28 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W446	2441770.30	1973 Mar 28 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W447	2441770.44	1973 Mar 28 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W448	2441770.71	1973 Mar 29 0455:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W449	2441771.18	1973 Mar 29 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W451	2441771.33	1973 Mar 29 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W452	2441771.40	1973 Mar 29 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W453	2441771.74	1973 Mar 30 0552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W454	2441772.09	1973 Mar 30 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W456	2441772.28	1973 Mar 30 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W457	2441772.31	1973 Mar 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W458	2441772.34	1973 Mar 30 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W459	2441772.42	1973 Mar 30 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W460	2441772.44	1973 Mar 30 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W461	2441775.12	1973 Apr 2 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W462	2441775.15	1973 Apr 2 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W463	2441775.20	1973 Apr 2 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W464	2441775.21	1973 Apr 2 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W465	2441775.22	1973 Apr 2 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W466	2441775.23	1973 Apr 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W467	2441775.24	1973 Apr 2 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W468	2441775.32	1973 Apr 2 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W469	2441775.34	1973 Apr 2 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W470	2441775.39	1973 Apr 2 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W471	2441775.69	1973 Apr 3 0434:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W472	2441776.06	1973 Apr 3 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W474	2441776.41	1973 Apr 3 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W475	2441777.10	1973 Apr 4 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y164	2441777.14	1973 Apr 4 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W477	2441777.19	1973 Apr 4 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W478	2441777.24	1973 Apr 4 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W479	2441777.28	1973 Apr 4 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W480	2441777.31	1973 Apr 4 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W481	2441777.34	1973 Apr 4 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W482	2441777.35	1973 Apr 4 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W483	2441778.14	1973 Apr 5 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W484	2441778.19	1973 Apr 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W485	2441779.09	1973 Apr 6 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W487	2441779.25	1973 Apr 6 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W488	2441779.27	1973 Apr 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W489	2441779.28	1973 Apr 6 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W490	2441779.31	1973 Apr 6 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W491	2441779.45	1973 Apr 6 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W492	2441782.09	1973 Apr 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W493	2441782.19	1973 Apr 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W494	2441782.29	1973 Apr 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W495	2441782.31	1973 Apr 9 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W496	2441782.32	1973 Apr 9 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W497	2441782.41	1973 Apr 9 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W498	2441782.51	1973 Apr 10 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W499	2441782.69	1973 Apr 10 0434:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W501	2441783.41	1973 Apr 10 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W502	2441783.82	1973 Apr 11 0734:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W504	2441784.12	1973 Apr 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W505	2441784.15	1973 Apr 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W507	2441784.19	1973 Apr 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W508	2441784.25	1973 Apr 11 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W509	2441784.29	1973 Apr 11 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y171	2441784.29	1973 Apr 11 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y172	2441784.30	1973 Apr 11 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W510	2441784.31	1973 Apr 11 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W511	2441784.32	1973 Apr 11 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W512	2441784.32	1973 Apr 11 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y173	2441784.38	1973 Apr 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W513	2441784.39	1973 Apr 11 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W514	2441784.50	1973 Apr 12 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W515	2441785.19	1973 Apr 12 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W516	2441785.49	1973 Apr 12 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W517	2441786.09	1973 Apr 13 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W518	2441786.12	1973 Apr 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W520	2441786.24	1973 Apr 13 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W521	2441786.31	1973 Apr 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W522	2441786.38	1973 Apr 13 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W523	2441789.01	1973 Apr 16 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W524	2441789.06	1973 Apr 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W525	2441789.10	1973 Apr 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A20	2441789.13	1973 Apr 16 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W526	2441789.21	1973 Apr 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W527	2441789.29	1973 Apr 16 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W528	2441789.32	1973 Apr 16 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W529	2441789.38	1973 Apr 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W530	2441789.69	1973 Apr 17 0434:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W532	2441790.40	1973 Apr 17 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W533	2441791.09	1973 Apr 18 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W534	2441791.09	1973 Apr 18 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W535	2441791.10	1973 Apr 18 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W536	2441791.12	1973 Apr 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W538	2441791.16	1973 Apr 18 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W539	2441791.19	1973 Apr 18 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y180	2441791.21	1973 Apr 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y181	2441791.21	1973 Apr 18 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y182	2441791.24	1973 Apr 18 1741:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W540	2441791.25	1973 Apr 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W541	2441791.26	1973 Apr 18 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W542	2441791.31	1973 Apr 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W543	2441791.42	1973 Apr 18 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W544	2441791.49	1973 Apr 18 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W545	2441792.18	1973 Apr 19 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W546	2441792.24	1973 Apr 19 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W547	2441793.03	1973 Apr 20 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W548	2441793.24	1973 Apr 20 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W549	2441793.32	1973 Apr 20 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W550	2441793.37	1973 Apr 20 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W551	2441793.43	1973 Apr 20 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W552	2441796.09	1973 Apr 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W553	2441796.30	1973 Apr 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W554	2441796.31	1973 Apr 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W555	2441796.34	1973 Apr 23 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W556	2441796.38	1973 Apr 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W557	2441796.49	1973 Apr 23 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W558	2441796.69	1973 Apr 24 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W560	2441797.40	1973 Apr 24 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W561	2441797.89	1973 Apr 25 0922:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W562	2441798.09	1973 Apr 25 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W563	2441798.12	1973 Apr 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W564	2441798.14	1973 Apr 25 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W566	2441798.15	1973 Apr 25 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W567	2441798.24	1973 Apr 25 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y190	2441798.27	1973 Apr 25 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W568	2441798.29	1973 Apr 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W569	2441798.30	1973 Apr 25 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W570	2441798.31	1973 Apr 25 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W571	2441799.19	1973 Apr 26 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W572	2441799.55	1973 Apr 27 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W573	2441800.04	1973 Apr 27 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W574	2441800.09	1973 Apr 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W576	2441800.24	1973 Apr 27 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W577	2441800.25	1973 Apr 27 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W578	2441800.27	1973 Apr 27 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W579	2441800.33	1973 Apr 27 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W580	2441800.44	1973 Apr 27 2230:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y192	2441801.52	1973 Apr 29 0023:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W581	2441803.09	1973 Apr 30 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A21	2441803.15	1973 Apr 30 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W583	2441803.21	1973 Apr 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W584	2441803.23	1973 Apr 30 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W585	2441803.27	1973 Apr 30 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W586	2441803.33	1973 Apr 30 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W587	2441803.39	1973 Apr 30 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W588	2441805.07	1973 May 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W589	2441805.10	1973 May 2 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W591	2441805.12	1973 May 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W592	2441805.17	1973 May 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W593	2441805.21	1973 May 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W594	2441805.25	1973 May 2 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W595	2441805.32	1973 May 2 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W596	2441805.38	1973 May 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W597	2441805.38	1973 May 2 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W598	2441805.58	1973 May 3 0152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W599	2441806.20	1973 May 3 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W600	2441806.25	1973 May 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W601	2441807.06	1973 May 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W602	2441807.07	1973 May 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W603	2441807.09	1973 May 4 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W605	2441807.25	1973 May 4 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W606	2441807.27	1973 May 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W607	2441807.39	1973 May 4 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W608	2441807.39	1973 May 4 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W609	2441810.08	1973 May 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W610	2441810.22	1973 May 7 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W611	2441810.23	1973 May 7 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W612	2441810.30	1973 May 7 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W613	2441810.31	1973 May 7 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W614	2441810.38	1973 May 7 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W615	2441810.53	1973 May 8 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W616	2441811.20	1973 May 8 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W618	2441811.30	1973 May 8 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W620	2441812.12	1973 May 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W622	2441812.17	1973 May 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W623	2441812.24	1973 May 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W624	2441812.31	1973 May 9 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W625	2441812.41	1973 May 9 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W626	2441812.55	1973 May 10 0104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W627	2441812.59	1973 May 10 0203:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W628	2441813.08	1973 May 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W629	2441813.09	1973 May 10 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W630	2441813.23	1973 May 10 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W631	2441813.50	1973 May 11 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W632	2441814.12	1973 May 11 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y202	2441814.13	1973 May 11 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W633	2441814.15	1973 May 11 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W635	2441814.19	1973 May 11 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W636	2441814.25	1973 May 11 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W637	2441814.27	1973 May 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y203	2441814.38	1973 May 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W638	2441814.39	1973 May 11 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W639	2441816.06	1973 May 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W640	2441817.06	1973 May 14 1332:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W642	2441817.21	1973 May 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W643	2441817.25	1973 May 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W644	2441817.27	1973 May 14 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W645	2441817.29	1973 May 14 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W646	2441817.38	1973 May 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W647	2441817.49	1973 May 14 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W648	2441818.19	1973 May 15 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W649	2441818.27	1973 May 15 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W650	2441818.29	1973 May 15 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W652	2441819.05	1973 May 16 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W653	2441819.07	1973 May 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W654	2441819.09	1973 May 16 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W655	2441819.09	1973 May 16 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W656	2441819.15	1973 May 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y207	2441819.17	1973 May 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W657	2441819.17	1973 May 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W659	2441819.24	1973 May 16 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W660	2441819.25	1973 May 16 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W661	2441819.31	1973 May 16 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W662	2441819.33	1973 May 16 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W663	2441819.58	1973 May 17 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W664	2441820.13	1973 May 17 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W665	2441820.38	1973 May 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W666	2441820.39	1973 May 17 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W667	2441821.08	1973 May 18 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W668	2441821.08	1973 May 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W669	2441821.18	1973 May 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W670	2441821.21	1973 May 18 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W671	2441821.25	1973 May 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W672	2441821.27	1973 May 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W673	2441821.47	1973 May 18 2314:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y210	2441821.53	1973 May 19 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W674	2441822.55	1973 May 20 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W675	2441824.07	1973 May 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W676	2441824.14	1973 May 21 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W677	2441824.21	1973 May 21 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W678	2441824.27	1973 May 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W679	2441824.31	1973 May 21 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W680	2441824.38	1973 May 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W681	2441825.11	1973 May 22 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W682	2441825.19	1973 May 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W683	2441825.25	1973 May 22 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W684	2441826.08	1973 May 23 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W685	2441826.09	1973 May 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W686	2441826.12	1973 May 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y216	2441826.15	1973 May 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W688	2441826.23	1973 May 23 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W689	2441826.24	1973 May 23 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W690	2441826.31	1973 May 23 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W691	2441826.46	1973 May 23 2307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y217	2441826.62	1973 May 24 0246:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W692	2441827.09	1973 May 24 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W693	2441827.12	1973 May 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W694	2441827.39	1973 May 24 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W695	2441828.10	1973 May 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W697	2441828.25	1973 May 25 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W698	2441828.29	1973 May 25 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W699	2441828.29	1973 May 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W700	2441828.39	1973 May 25 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W701	2441828.53	1973 May 26 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A23	2441832.20	1973 May 29 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W703	2441832.21	1973 May 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W704	2441832.29	1973 May 29 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W705	2441832.31	1973 May 29 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W706	2441832.34	1973 May 29 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W707	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W708	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W709	2441833.07	1973 May 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W710	2441833.11	1973 May 30 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W711	2441833.15	1973 May 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W712	2441833.17	1973 May 30 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W713	2441833.17	1973 May 30 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y226	2441833.19	1973 May 30 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W715	2441833.21	1973 May 30 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W716	2441833.25	1973 May 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W717	2441833.31	1973 May 30 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W718	2441833.39	1973 May 30 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W719	2441833.53	1973 May 31 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W720	2441834.51	1973 Jun 1 0012:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W721	2441835.09	1973 Jun 1 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W722	2441835.18	1973 Jun 1 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W723	2441835.18	1973 Jun 1 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W724	2441835.31	1973 Jun 1 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W725	2441835.35	1973 Jun 1 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W726	2441835.38	1973 Jun 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W727	2441838.01	1973 Jun 4 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W728	2441838.08	1973 Jun 4 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W729	2441838.12	1973 Jun 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W730	2441838.23	1973 Jun 4 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W731	2441838.24	1973 Jun 4 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W732	2441838.25	1973 Jun 4 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W733	2441838.27	1973 Jun 4 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W734	2441838.31	1973 Jun 4 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W735	2441838.38	1973 Jun 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W737	2441839.39	1973 Jun 5 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W738	2441839.50	1973 Jun 6 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W739	2441839.99	1973 Jun 6 1140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W741	2441840.03	1973 Jun 6 1236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W742	2441840.06	1973 Jun 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y231	2441840.07	1973 Jun 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W743	2441840.08	1973 Jun 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W744	2441840.11	1973 Jun 6 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W745	2441840.12	1973 Jun 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W747	2441840.21	1973 Jun 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W748	2441840.25	1973 Jun 6 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W749	2441840.25	1973 Jun 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W750	2441840.27	1973 Jun 6 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W751	2441840.31	1973 Jun 6 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W752	2441840.38	1973 Jun 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W753	2441840.53	1973 Jun 7 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y235	2441841.22	1973 Jun 7 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W754	2441841.69	1973 Jun 8 0434:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W755	2441842.08	1973 Jun 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W756	2441842.09	1973 Jun 8 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W757	2441842.15	1973 Jun 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W758	2441842.18	1973 Jun 8 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W759	2441842.18	1973 Jun 8 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W760	2441842.21	1973 Jun 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W761	2441842.25	1973 Jun 8 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W762	2441842.31	1973 Jun 8 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y237	2441842.38	1973 Jun 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W763	2441842.41	1973 Jun 8 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W764	2441842.53	1973 Jun 9 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y238	2441842.53	1973 Jun 9 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W765	2441842.58	1973 Jun 9 0151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W766	2441842.60	1973 Jun 9 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W767	2441843.31	1973 Jun 9 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W768	2441845.12	1973 Jun 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W769	2441845.16	1973 Jun 11 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W770	2441845.18	1973 Jun 11 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W771	2441845.21	1973 Jun 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W772	2441845.23	1973 Jun 11 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W773	2441845.31	1973 Jun 11 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W774	2441845.38	1973 Jun 11 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W776	2441846.25	1973 Jun 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y245	2441846.50	1973 Jun 13 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y247	2441847.07	1973 Jun 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W777	2441847.08	1973 Jun 13 1348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W778	2441847.09	1973 Jun 13 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W779	2441847.10	1973 Jun 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W780	2441847.17	1973 Jun 13 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W782	2441847.25	1973 Jun 13 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W783	2441847.27	1973 Jun 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W784	2441847.29	1973 Jun 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y250	2441847.35	1973 Jun 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W785	2441847.42	1973 Jun 13 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W786	2441847.42	1973 Jun 13 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W787	2441847.53	1973 Jun 14 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W788	2441848.09	1973 Jun 14 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W789	2441848.13	1973 Jun 14 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W790	2441848.69	1973 Jun 15 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W791	2441849.07	1973 Jun 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W792	2441849.08	1973 Jun 15 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W793	2441849.18	1973 Jun 15 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W794	2441849.23	1973 Jun 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y253	2441849.29	1973 Jun 15 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W795	2441849.32	1973 Jun 15 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W796	2441849.41	1973 Jun 15 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W797	2441849.56	1973 Jun 16 0123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W798	2441852.07	1973 Jun 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W799	2441852.10	1973 Jun 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W800	2441852.21	1973 Jun 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W801	2441852.25	1973 Jun 18 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W802	2441852.31	1973 Jun 18 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W803	2441852.32	1973 Jun 18 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W804	2441852.38	1973 Jun 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W805	2441853.04	1973 Jun 19 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W806	2441853.31	1973 Jun 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W807	2441853.51	1973 Jun 20 0008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A31	2441853.70	1973 Jun 20 0444:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W808	2441853.70	1973 Jun 20 0444:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W809	2441854.11	1973 Jun 20 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W810	2441854.14	1973 Jun 20 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W811	2441854.18	1973 Jun 20 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y258	2441854.25	1973 Jun 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W813	2441854.30	1973 Jun 20 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W814	2441854.35	1973 Jun 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W815	2441854.40	1973 Jun 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y259	2441854.56	1973 Jun 21 0126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W816	2441855.14	1973 Jun 21 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W817	2441856.12	1973 Jun 22 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W818	2441856.18	1973 Jun 22 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W819	2441856.20	1973 Jun 22 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W820	2441856.21	1973 Jun 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W821	2441856.21	1973 Jun 22 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y260	2441856.31	1973 Jun 22 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y261	2441856.38	1973 Jun 22 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W822	2441856.40	1973 Jun 22 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W823	2441856.53	1973 Jun 23 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A32	2441859.12	1973 Jun 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W824	2441859.12	1973 Jun 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W825	2441859.17	1973 Jun 25 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W826	2441859.25	1973 Jun 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W827	2441859.31	1973 Jun 25 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W828	2441859.39	1973 Jun 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W829	2441860.33	1973 Jun 26 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W830	2441860.68	1973 Jun 27 0424:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W831	2441861.04	1973 Jun 27 1303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W832	2441861.10	1973 Jun 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W833	2441861.11	1973 Jun 27 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W834	2441861.18	1973 Jun 27 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W835	2441861.18	1973 Jun 27 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W837	2441861.19	1973 Jun 27 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W838	2441861.30	1973 Jun 27 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W839	2441862.07	1973 Jun 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W840	2441862.31	1973 Jun 28 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W841	2441863.07	1973 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W842	2441863.19	1973 Jun 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W843	2441863.23	1973 Jun 29 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W844	2441863.25	1973 Jun 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y268	2441863.54	1973 Jun 30 0100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W848	2441864.38	1973 Jun 30 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W849	2441866.12	1973 Jul 2 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W850	2441866.17	1973 Jul 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W851	2441866.23	1973 Jul 2 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W852	2441866.27	1973 Jul 2 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W853	2441866.40	1973 Jul 2 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y272	2441866.53	1973 Jul 3 0047:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W854	2441867.12	1973 Jul 3 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W855	2441867.26	1973 Jul 3 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W857	2441869.31	1973 Jul 5 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W858	2441869.48	1973 Jul 5 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W859	2441870.08	1973 Jul 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W860	2441870.11	1973 Jul 6 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W861	2441870.14	1973 Jul 6 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y279	2441870.17	1973 Jul 6 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W862	2441870.19	1973 Jul 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W863	2441870.21	1973 Jul 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W864	2441870.23	1973 Jul 6 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W865	2441873.08	1973 Jul 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W866	2441873.12	1973 Jul 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W867	2441873.23	1973 Jul 9 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W868	2441873.25	1973 Jul 9 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W869	2441873.31	1973 Jul 9 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W870	2441873.40	1973 Jul 9 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y282	2441875.08	1973 Jul 11 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W871	2441875.10	1973 Jul 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W872	2441875.18	1973 Jul 11 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W873	2441875.19	1973 Jul 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W875	2441875.21	1973 Jul 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W876	2441875.30	1973 Jul 11 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W877	2441875.32	1973 Jul 11 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y285	2441875.37	1973 Jul 11 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W878	2441875.39	1973 Jul 11 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y286	2441875.58	1973 Jul 12 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W880	2441876.26	1973 Jul 12 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W881	2441876.31	1973 Jul 12 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W882	2441876.69	1973 Jul 13 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W883	2441877.07	1973 Jul 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W884	2441877.08	1973 Jul 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W885	2441877.09	1973 Jul 13 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W886	2441877.21	1973 Jul 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W887	2441877.37	1973 Jul 13 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y287	2441877.53	1973 Jul 14 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W888	2441880.04	1973 Jul 16 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W889	2441880.18	1973 Jul 16 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W890	2441880.23	1973 Jul 16 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W891	2441880.25	1973 Jul 16 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W892	2441880.25	1973 Jul 16 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W893	2441880.31	1973 Jul 16 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W894	2441880.40	1973 Jul 16 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y290	2441880.53	1973 Jul 17 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W901	2441881.05	1973 Jul 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W902	2441881.20	1973 Jul 17 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W903	2441881.24	1973 Jul 17 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W909	2441881.69	1973 Jul 18 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W910	2441881.73	1973 Jul 18 0531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W911	2441882.07	1973 Jul 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W912	2441882.10	1973 Jul 18 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W914	2441882.14	1973 Jul 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W915	2441882.19	1973 Jul 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W916	2441882.24	1973 Jul 18 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W917	2441882.30	1973 Jul 18 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W918	2441882.53	1973 Jul 19 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W919	2441883.31	1973 Jul 19 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W920	2441884.07	1973 Jul 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W921	2441884.08	1973 Jul 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y305	2441884.17	1973 Jul 20 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A34	2441884.19	1973 Jul 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W922	2441884.23	1973 Jul 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W923	2441884.28	1973 Jul 20 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y306	2441884.38	1973 Jul 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W924	2441884.39	1973 Jul 20 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A36	2441886.72	1973 Jul 23 0515:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A37	2441887.07	1973 Jul 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W925	2441887.08	1973 Jul 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W926	2441887.19	1973 Jul 23 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W927	2441887.29	1973 Jul 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W928	2441887.40	1973 Jul 23 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y308	2441887.53	1973 Jul 24 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W929	2441889.04	1973 Jul 25 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W930	2441889.07	1973 Jul 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W931	2441889.17	1973 Jul 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W932	2441889.17	1973 Jul 25 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W934	2441889.19	1973 Jul 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W935	2441889.21	1973 Jul 25 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y311	2441889.35	1973 Jul 25 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y312	2441889.38	1973 Jul 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W936	2441889.38	1973 Jul 25 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W937	2441890.04	1973 Jul 26 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W938	2441890.05	1973 Jul 26 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W939	2441890.25	1973 Jul 26 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W940	2441890.31	1973 Jul 26 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W941	2441890.32	1973 Jul 26 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W942	2441890.38	1973 Jul 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W943	2441891.04	1973 Jul 27 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W944	2441891.08	1973 Jul 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W945	2441891.08	1973 Jul 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W946	2441891.10	1973 Jul 27 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W947	2441891.11	1973 Jul 27 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W948	2441891.12	1973 Jul 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W10	2442050.27	1974 Jan 2 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W11	2442050.32	1974 Jan 2 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W12	2442050.39	1974 Jan 2 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y05	2442050.53	1974 Jan 3 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W13	2442051.15	1974 Jan 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W15	2442051.17	1974 Jan 3 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W16	2442051.33	1974 Jan 3 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W17	2442052.13	1974 Jan 4 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W19	2442052.25	1974 Jan 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W20	2442052.38	1974 Jan 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W21	2442052.38	1974 Jan 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W22	2442052.45	1974 Jan 4 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W23	2442053.43	1974 Jan 5 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W24	2442055.08	1974 Jan 7 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W25	2442055.08	1974 Jan 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A02	2442055.12	1974 Jan 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W27	2442055.21	1974 Jan 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W28	2442055.30	1974 Jan 7 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W29	2442055.33	1974 Jan 7 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W30	2442056.21	1974 Jan 8 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W31	2442056.23	1974 Jan 8 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W32	2442057.08	1974 Jan 9 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y11	2442057.16	1974 Jan 9 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W33	2442057.18	1974 Jan 9 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y12	2442057.19	1974 Jan 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W34	2442057.21	1974 Jan 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W35	2442057.21	1974 Jan 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W37	2442057.29	1974 Jan 9 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W38	2442057.33	1974 Jan 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W39	2442057.53	1974 Jan 10 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W41	2442058.25	1974 Jan 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W42	2442058.27	1974 Jan 10 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W43	2442058.45	1974 Jan 10 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W45	2442059.06	1974 Jan 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W46	2442059.07	1974 Jan 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W47	2442059.08	1974 Jan 11 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W48	2442059.11	1974 Jan 11 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W50	2442059.27	1974 Jan 11 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W51	2442059.28	1974 Jan 11 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W52	2442059.32	1974 Jan 11 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W53	2442059.33	1974 Jan 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W54	2442060.46	1974 Jan 12 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W55	2442062.08	1974 Jan 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W56	2442062.13	1974 Jan 14 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W57	2442062.18	1974 Jan 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W58	2442062.21	1974 Jan 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W59	2442062.28	1974 Jan 14 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W60	2442062.35	1974 Jan 14 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W61	2442062.81	1974 Jan 15 0722:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W63	2442063.17	1974 Jan 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W64	2442064.06	1974 Jan 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W65	2442064.07	1974 Jan 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W66	2442064.09	1974 Jan 16 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W67	2442064.12	1974 Jan 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y18	2442064.19	1974 Jan 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W69	2442064.25	1974 Jan 16 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W70	2442064.29	1974 Jan 16 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W71	2442064.31	1974 Jan 16 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W72	2442064.34	1974 Jan 16 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y21	2442064.38	1974 Jan 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W74	2442065.25	1974 Jan 17 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W75	2442065.29	1974 Jan 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W76	2442065.32	1974 Jan 17 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W77	2442066.07	1974 Jan 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W78	2442066.09	1974 Jan 18 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W79	2442066.13	1974 Jan 18 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W80	2442066.23	1974 Jan 18 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W81	2442066.31	1974 Jan 18 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W83	2442068.91	1974 Jan 21 0946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W84	2442069.08	1974 Jan 21 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W85	2442069.08	1974 Jan 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W86	2442069.11	1974 Jan 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W87	2442069.14	1974 Jan 21 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W88	2442069.17	1974 Jan 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W89	2442069.20	1974 Jan 21 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W90	2442069.23	1974 Jan 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W91	2442069.33	1974 Jan 21 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W93	2442070.10	1974 Jan 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W94	2442070.25	1974 Jan 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W95	2442070.32	1974 Jan 22 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W96	2442070.33	1974 Jan 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W98	2442071.06	1974 Jan 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W99	2442071.07	1974 Jan 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W100	2442071.09	1974 Jan 23 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W101	2442071.09	1974 Jan 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y29	2442071.19	1974 Jan 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W102	2442071.21	1974 Jan 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W103	2442071.22	1974 Jan 23 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W104	2442071.27	1974 Jan 23 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y30	2442071.28	1974 Jan 23 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W105	2442071.29	1974 Jan 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W106	2442071.30	1974 Jan 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W107	2442071.39	1974 Jan 23 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W108	2442071.54	1974 Jan 24 0101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W109	2442071.88	1974 Jan 24 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W111	2442072.34	1974 Jan 24 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W112	2442073.08	1974 Jan 25 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W113	2442073.09	1974 Jan 25 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W114	2442073.17	1974 Jan 25 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W116	2442073.25	1974 Jan 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W117	2442073.32	1974 Jan 25 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W118	2442073.33	1974 Jan 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W119	2442073.92	1974 Jan 26 1000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W120	2442076.07	1974 Jan 28 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W121	2442076.07	1974 Jan 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W123	2442076.19	1974 Jan 28 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W124	2442076.23	1974 Jan 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W125	2442076.30	1974 Jan 28 1917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W126	2442076.33	1974 Jan 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W127	2442076.88	1974 Jan 29 0904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W128	2442077.03	1974 Jan 29 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W130	2442077.21	1974 Jan 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W131	2442077.29	1974 Jan 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W132	2442077.30	1974 Jan 29 1917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W133	2442078.05	1974 Jan 30 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W134	2442078.08	1974 Jan 30 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W135	2442078.10	1974 Jan 30 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W137	2442078.16	1974 Jan 30 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W138	2442078.16	1974 Jan 30 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W139	2442078.19	1974 Jan 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W140	2442078.25	1974 Jan 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W141	2442078.29	1974 Jan 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W142	2442078.33	1974 Jan 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y39	2442078.36	1974 Jan 30 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W143	2442078.38	1974 Jan 30 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W148	2442078.51	1974 Jan 31 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W151	2442079.22	1974 Jan 31 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W152	2442079.29	1974 Jan 31 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W153	2442080.10	1974 Feb 1 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W154	2442080.10	1974 Feb 1 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W155	2442080.12	1974 Feb 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W156	2442080.17	1974 Feb 1 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W157	2442080.21	1974 Feb 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W158	2442080.33	1974 Feb 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W160	2442083.10	1974 Feb 4 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W161	2442083.14	1974 Feb 4 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W162	2442083.17	1974 Feb 4 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W164	2442083.33	1974 Feb 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W165	2442083.38	1974 Feb 4 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W166	2442084.23	1974 Feb 5 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W168	2442084.30	1974 Feb 5 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W169	2442085.03	1974 Feb 6 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W170	2442085.06	1974 Feb 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W171	2442085.09	1974 Feb 6 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W172	2442085.12	1974 Feb 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W174	2442085.29	1974 Feb 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W175	2442086.07	1974 Feb 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W177	2442086.17	1974 Feb 7 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W178	2442086.28	1974 Feb 7 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y48	2442086.29	1974 Feb 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W179	2442086.31	1974 Feb 7 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W180	2442087.07	1974 Feb 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A05	2442087.08	1974 Feb 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W182	2442087.29	1974 Feb 8 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W185	2442090.18	1974 Feb 11 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W186	2442090.25	1974 Feb 11 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W187	2442090.55	1974 Feb 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A06	2442090.64	1974 Feb 12 0324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W188	2442091.08	1974 Feb 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W189	2442091.15	1974 Feb 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W190	2442091.16	1974 Feb 12 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W191	2442091.21	1974 Feb 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W193	2442091.32	1974 Feb 12 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W194	2442091.51	1974 Feb 13 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W195	2442091.81	1974 Feb 13 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W196	2442092.07	1974 Feb 13 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W197	2442092.08	1974 Feb 13 1352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W198	2442092.09	1974 Feb 13 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W199	2442092.12	1974 Feb 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W200	2442092.21	1974 Feb 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W202	2442092.74	1974 Feb 14 0540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W203	2442093.17	1974 Feb 14 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W204	2442093.25	1974 Feb 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W206	2442094.07	1974 Feb 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W207	2442094.12	1974 Feb 15 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W208	2442094.13	1974 Feb 15 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W209	2442094.17	1974 Feb 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W210	2442094.19	1974 Feb 15 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y65	2442094.27	1974 Feb 15 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W211	2442094.30	1974 Feb 15 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W212	2442094.30	1974 Feb 15 1917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W213	2442094.71	1974 Feb 16 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W214	2442094.89	1974 Feb 16 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W215	2442094.95	1974 Feb 16 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W217	2442096.73	1974 Feb 18 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W219	2442097.78	1974 Feb 19 0645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W220	2442097.85	1974 Feb 19 0827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W221	2442098.10	1974 Feb 19 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W222	2442098.12	1974 Feb 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W223	2442098.13	1974 Feb 19 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W224	2442098.27	1974 Feb 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W225	2442098.77	1974 Feb 20 0626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W226	2442098.80	1974 Feb 20 0704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W227	2442099.07	1974 Feb 20 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W228	2442099.07	1974 Feb 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W229	2442099.10	1974 Feb 20 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W230	2442099.25	1974 Feb 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W231	2442099.28	1974 Feb 20 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W233	2442099.62	1974 Feb 21 0247:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W235	2442100.25	1974 Feb 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W236	2442100.30	1974 Feb 21 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W237	2442100.33	1974 Feb 21 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W238	2442100.43	1974 Feb 21 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A10	2442101.04	1974 Feb 22 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W239	2442101.08	1974 Feb 22 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W240	2442101.15	1974 Feb 22 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W242	2442103.75	1974 Feb 25 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W243	2442104.07	1974 Feb 25 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W244	2442104.07	1974 Feb 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W245	2442104.20	1974 Feb 25 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W246	2442104.25	1974 Feb 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W247	2442104.25	1974 Feb 25 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W248	2442104.29	1974 Feb 25 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W250	2442104.89	1974 Feb 26 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W251	2442105.21	1974 Feb 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W252	2442105.26	1974 Feb 26 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W253	2442105.28	1974 Feb 26 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W254	2442105.29	1974 Feb 26 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W256	2442105.66	1974 Feb 27 0356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W257	2442105.71	1974 Feb 27 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W258	2442106.08	1974 Feb 27 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W259	2442106.08	1974 Feb 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W260	2442106.13	1974 Feb 27 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W261	2442106.17	1974 Feb 27 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W262	2442106.27	1974 Feb 27 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W263	2442106.33	1974 Feb 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W264	2442106.40	1974 Feb 27 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y83	2442106.42	1974 Feb 27 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y84	2442106.55	1974 Feb 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W271	2442106.78	1974 Feb 28 0645:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W272	2442106.90	1974 Feb 28 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W273	2442107.32	1974 Feb 28 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W275	2442108.02	1974 Mar 1 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W276	2442108.08	1974 Mar 1 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W277	2442108.09	1974 Mar 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W278	2442108.13	1974 Mar 1 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W279	2442108.38	1974 Mar 1 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W280	2442108.38	1974 Mar 1 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y87	2442108.72	1974 Mar 2 0515:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W282	2442108.98	1974 Mar 2 1134:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W283	2442111.07	1974 Mar 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W284	2442111.09	1974 Mar 4 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W285	2442111.12	1974 Mar 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W286	2442111.15	1974 Mar 4 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W287	2442111.21	1974 Mar 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W288	2442111.28	1974 Mar 4 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y94	2442112.09	1974 Mar 5 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W290	2442112.20	1974 Mar 5 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W292	2442113.03	1974 Mar 6 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W293	2442113.04	1974 Mar 6 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W294	2442113.09	1974 Mar 6 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W295	2442113.10	1974 Mar 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W296	2442113.15	1974 Mar 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W297	2442113.17	1974 Mar 6 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y100	2442113.19	1974 Mar 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W299	2442113.27	1974 Mar 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W300	2442113.33	1974 Mar 6 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W301	2442114.08	1974 Mar 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W303	2442114.35	1974 Mar 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W304	2442114.89	1974 Mar 8 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W305	2442115.07	1974 Mar 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W306	2442115.12	1974 Mar 8 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W307	2442115.19	1974 Mar 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W308	2442115.21	1974 Mar 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W309	2442115.22	1974 Mar 8 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W311	2442115.36	1974 Mar 8 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W312	2442115.42	1974 Mar 8 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W313	2442115.58	1974 Mar 9 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W314	2442118.02	1974 Mar 11 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W315	2442118.10	1974 Mar 11 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W316	2442118.16	1974 Mar 11 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W318	2442118.22	1974 Mar 11 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W319	2442118.25	1974 Mar 11 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W320	2442119.07	1974 Mar 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W322	2442119.33	1974 Mar 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W323	2442119.88	1974 Mar 13 0910:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W324	2442120.06	1974 Mar 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W325	2442120.07	1974 Mar 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W326	2442120.15	1974 Mar 13 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W328	2442120.20	1974 Mar 13 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y107	2442120.21	1974 Mar 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W329	2442120.21	1974 Mar 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W330	2442120.33	1974 Mar 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W331	2442120.38	1974 Mar 13 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y108	2442120.56	1974 Mar 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W332	2442120.67	1974 Mar 14 0404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W333	2442121.10	1974 Mar 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W334	2442121.16	1974 Mar 14 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W336	2442121.34	1974 Mar 14 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y109	2442121.37	1974 Mar 14 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W337	2442121.39	1974 Mar 14 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W338	2442121.80	1974 Mar 15 0709:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W339	2442122.04	1974 Mar 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W340	2442122.06	1974 Mar 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W341	2442122.11	1974 Mar 15 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W342	2442122.12	1974 Mar 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W343	2442122.14	1974 Mar 15 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W344	2442122.15	1974 Mar 15 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W345	2442122.36	1974 Mar 15 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W346	2442122.58	1974 Mar 16 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W347	2442125.21	1974 Mar 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W348	2442125.24	1974 Mar 18 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W349	2442125.38	1974 Mar 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W350	2442125.41	1974 Mar 18 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W352	2442125.52	1974 Mar 19 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W353	2442126.12	1974 Mar 19 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W369	2442126.32	1974 Mar 19 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W404	2442126.84	1974 Mar 20 0803:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W421	2442127.07	1974 Mar 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y116	2442127.19	1974 Mar 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W427	2442127.21	1974 Mar 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W428	2442127.35	1974 Mar 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y118	2442127.39	1974 Mar 20 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W429	2442127.57	1974 Mar 21 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A13	2442128.02	1974 Mar 21 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W430	2442128.21	1974 Mar 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W431	2442128.25	1974 Mar 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W432	2442128.67	1974 Mar 22 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W433	2442129.08	1974 Mar 22 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W434	2442129.08	1974 Mar 22 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W436	2442129.21	1974 Mar 22 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W437	2442129.29	1974 Mar 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W438	2442129.33	1974 Mar 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W439	2442129.70	1974 Mar 23 0446:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W440	2442129.91	1974 Mar 23 0945:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W441	2442130.58	1974 Mar 24 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W442	2442132.06	1974 Mar 25 1327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W443	2442132.06	1974 Mar 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W444	2442132.07	1974 Mar 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W446	2442132.33	1974 Mar 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W447	2442132.36	1974 Mar 25 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W448	2442132.38	1974 Mar 25 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W449	2442133.11	1974 Mar 26 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W450	2442134.07	1974 Mar 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W451	2442134.08	1974 Mar 27 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W452	2442134.09	1974 Mar 27 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W453	2442134.09	1974 Mar 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W454	2442134.16	1974 Mar 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W455	2442134.42	1974 Mar 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W457	2442134.50	1974 Mar 28 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W458	2442135.09	1974 Mar 28 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W459	2442135.21	1974 Mar 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W460	2442135.21	1974 Mar 28 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W462	2442136.09	1974 Mar 29 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W463	2442136.12	1974 Mar 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W464	2442136.17	1974 Mar 29 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W465	2442136.23	1974 Mar 29 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y136	2442136.40	1974 Mar 29 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W466	2442136.41	1974 Mar 29 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W468	2442139.08	1974 Apr 1 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W469	2442139.08	1974 Apr 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W470	2442139.09	1974 Apr 1 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W471	2442139.23	1974 Apr 1 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W472	2442139.25	1974 Apr 1 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W473	2442139.38	1974 Apr 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W475	2442140.26	1974 Apr 2 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W476	2442141.09	1974 Apr 3 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W477	2442141.12	1974 Apr 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y145	2442141.21	1974 Apr 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W478	2442141.21	1974 Apr 3 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W479	2442141.33	1974 Apr 3 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W480	2442141.35	1974 Apr 3 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W481	2442141.40	1974 Apr 3 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W482	2442141.42	1974 Apr 3 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W483	2442142.07	1974 Apr 4 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W484	2442142.28	1974 Apr 4 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W485	2442142.36	1974 Apr 4 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W486	2442142.42	1974 Apr 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W487	2442143.07	1974 Apr 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W488	2442143.19	1974 Apr 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W489	2442143.21	1974 Apr 5 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W490	2442143.29	1974 Apr 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W491	2442143.33	1974 Apr 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W492	2442143.54	1974 Apr 6 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A15	2442146.02	1974 Apr 8 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W494	2442146.11	1974 Apr 8 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W495	2442146.25	1974 Apr 8 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W497	2442146.77	1974 Apr 9 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W498	2442147.07	1974 Apr 9 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W499	2442147.36	1974 Apr 9 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W500	2442148.04	1974 Apr 10 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W501	2442148.04	1974 Apr 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W502	2442148.12	1974 Apr 10 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W503	2442148.12	1974 Apr 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W505	2442148.28	1974 Apr 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W506	2442148.75	1974 Apr 11 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W507	2442149.11	1974 Apr 11 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W508	2442149.12	1974 Apr 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W509	2442150.21	1974 Apr 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y158	2442150.23	1974 Apr 12 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W510	2442150.25	1974 Apr 12 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W511	2442150.25	1974 Apr 12 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W512	2442150.35	1974 Apr 12 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W513	2442150.54	1974 Apr 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W514	2442150.58	1974 Apr 13 0155:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W515	2442152.90	1974 Apr 15 0940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W516	2442153.09	1974 Apr 15 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W517	2442153.12	1974 Apr 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W518	2442153.19	1974 Apr 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W519	2442153.21	1974 Apr 15 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W520	2442153.27	1974 Apr 15 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W521	2442153.37	1974 Apr 15 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W522	2442153.67	1974 Apr 16 0402:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W523	2442154.09	1974 Apr 16 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W524	2442154.12	1974 Apr 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W525	2442154.16	1974 Apr 16 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W526	2442154.32	1974 Apr 16 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W527	2442154.78	1974 Apr 17 0649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W528	2442155.08	1974 Apr 17 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W529	2442155.12	1974 Apr 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W530	2442155.13	1974 Apr 17 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W531	2442155.23	1974 Apr 17 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y165	2442155.29	1974 Apr 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W532	2442155.33	1974 Apr 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W533	2442155.35	1974 Apr 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W534	2442155.40	1974 Apr 17 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W536	2442156.03	1974 Apr 18 1236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W537	2442156.35	1974 Apr 18 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W538	2442157.04	1974 Apr 19 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W539	2442157.08	1974 Apr 19 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W540	2442157.09	1974 Apr 19 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W541	2442157.19	1974 Apr 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W542	2442157.21	1974 Apr 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W543	2442157.27	1974 Apr 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W544	2442157.27	1974 Apr 19 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W546	2442160.12	1974 Apr 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W547	2442160.12	1974 Apr 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W548	2442160.15	1974 Apr 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y169	2442160.19	1974 Apr 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W549	2442160.19	1974 Apr 22 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W550	2442160.19	1974 Apr 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y170	2442160.20	1974 Apr 22 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W551	2442160.23	1974 Apr 22 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W552	2442160.25	1974 Apr 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y171	2442160.29	1974 Apr 22 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y172	2442160.33	1974 Apr 22 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W553	2442160.39	1974 Apr 22 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W556	2442160.87	1974 Apr 23 0855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W557	2442162.07	1974 Apr 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W558	2442162.09	1974 Apr 24 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y178	2442162.19	1974 Apr 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W560	2442162.23	1974 Apr 24 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W561	2442162.24	1974 Apr 24 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W562	2442162.28	1974 Apr 24 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W563	2442162.35	1974 Apr 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W564	2442162.38	1974 Apr 24 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W565	2442162.77	1974 Apr 25 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W566	2442162.89	1974 Apr 25 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W567	2442163.21	1974 Apr 25 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W568	2442163.25	1974 Apr 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W569	2442163.68	1974 Apr 26 0420:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W570	2442164.07	1974 Apr 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W571	2442164.09	1974 Apr 26 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W572	2442164.10	1974 Apr 26 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W573	2442164.12	1974 Apr 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W575	2442164.17	1974 Apr 26 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W576	2442164.20	1974 Apr 26 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W577	2442164.32	1974 Apr 26 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W578	2442165.25	1974 Apr 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W579	2442166.00	1974 Apr 28 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W580	2442167.07	1974 Apr 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W581	2442167.08	1974 Apr 29 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W583	2442167.16	1974 Apr 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W584	2442167.25	1974 Apr 29 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W585	2442167.25	1974 Apr 29 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A19	2442167.35	1974 Apr 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W586	2442167.38	1974 Apr 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W591	2442167.55	1974 Apr 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W592	2442168.31	1974 Apr 30 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W593	2442169.00	1974 May 1 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W594	2442169.08	1974 May 1 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W595	2442169.10	1974 May 1 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W596	2442169.11	1974 May 1 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W597	2442169.13	1974 May 1 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W598	2442169.14	1974 May 1 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W600	2442169.19	1974 May 1 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A20	2442169.24	1974 May 1 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W601	2442169.32	1974 May 1 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W602	2442169.38	1974 May 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W603	2442170.19	1974 May 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W604	2442170.25	1974 May 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W605	2442171.00	1974 May 3 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W607	2442171.16	1974 May 3 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W608	2442171.21	1974 May 3 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W609	2442171.25	1974 May 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W610	2442171.25	1974 May 3 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W611	2442171.32	1974 May 3 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W612	2442171.77	1974 May 4 0629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W613	2442172.25	1974 May 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W614	2442172.86	1974 May 5 0845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W615	2442172.87	1974 May 5 0857:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W616	2442172.88	1974 May 5 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W617	2442172.92	1974 May 5 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W618	2442173.00	1974 May 5 1157:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W619	2442173.00	1974 May 5 1157:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W620	2442173.00	1974 May 5 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W621	2442173.04	1974 May 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W622	2442173.12	1974 May 5 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W623	2442173.13	1974 May 5 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W624	2442173.17	1974 May 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W625	2442173.21	1974 May 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W626	2442173.22	1974 May 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W627	2442173.25	1974 May 5 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W628	2442173.28	1974 May 5 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W629	2442173.30	1974 May 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W630	2442173.33	1974 May 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W632	2442174.12	1974 May 6 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W633	2442174.28	1974 May 6 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W634	2442174.33	1974 May 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W635	2442175.18	1974 May 7 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W637	2442175.20	1974 May 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W638	2442175.41	1974 May 7 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W639	2442176.12	1974 May 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W640	2442176.13	1974 May 8 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W641	2442176.13	1974 May 8 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W642	2442176.20	1974 May 8 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W643	2442176.31	1974 May 8 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W644	2442176.55	1974 May 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W646	2442177.19	1974 May 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W647	2442177.19	1974 May 9 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W648	2442177.73	1974 May 10 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A21	2442178.17	1974 May 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W649	2442178.17	1974 May 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W650	2442178.24	1974 May 10 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W651	2442178.29	1974 May 10 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W652	2442178.31	1974 May 10 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W653	2442178.33	1974 May 10 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y192	2442178.38	1974 May 10 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W654	2442178.39	1974 May 10 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W655	2442181.17	1974 May 13 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W656	2442181.17	1974 May 13 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W657	2442181.21	1974 May 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W658	2442181.24	1974 May 13 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W659	2442181.29	1974 May 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W660	2442182.18	1974 May 14 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W662	2442183.04	1974 May 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W663	2442183.09	1974 May 15 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W665	2442183.12	1974 May 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W667	2442183.15	1974 May 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y196	2442183.16	1974 May 15 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1665	2442183.17	1974 May 15 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W669	2442183.27	1974 May 15 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W670	2442183.40	1974 May 15 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W671	2442183.55	1974 May 16 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W672	2442184.24	1974 May 16 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W673	2442184.29	1974 May 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W674	2442185.08	1974 May 17 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W675	2442185.08	1974 May 17 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W677	2442185.24	1974 May 17 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W678	2442185.25	1974 May 17 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W679	2442185.32	1974 May 17 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W680	2442185.81	1974 May 18 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W681	2442188.17	1974 May 20 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W682	2442188.25	1974 May 20 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W683	2442188.25	1974 May 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W684	2442188.33	1974 May 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W685	2442189.18	1974 May 21 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W686	2442189.21	1974 May 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W687	2442189.25	1974 May 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W688	2442189.41	1974 May 21 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W690	2442190.14	1974 May 22 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W691	2442190.16	1974 May 22 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y204	2442190.17	1974 May 22 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W692	2442190.19	1974 May 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W693	2442190.26	1974 May 22 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W694	2442190.31	1974 May 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W695	2442190.31	1974 May 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W696	2442190.58	1974 May 23 0155:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W697	2442190.93	1974 May 23 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W698	2442191.19	1974 May 23 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W699	2442191.33	1974 May 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W700	2442191.82	1974 May 24 0741:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A22	2442192.09	1974 May 24 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W702	2442192.24	1974 May 24 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W703	2442192.39	1974 May 24 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W705	2442195.15	1974 May 27 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W706	2442196.19	1974 May 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W707	2442196.23	1974 May 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W708	2442196.33	1974 May 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y207	2442196.38	1974 May 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W709	2442196.39	1974 May 28 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W710	2442196.50	1974 May 29 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W711	2442197.11	1974 May 29 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W713	2442197.14	1974 May 29 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W714	2442197.24	1974 May 29 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W715	2442197.29	1974 May 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W716	2442197.55	1974 May 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W717	2442197.93	1974 May 30 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W718	2442198.15	1974 May 30 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W719	2442198.19	1974 May 30 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W720	2442198.33	1974 May 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W725	2442198.82	1974 May 31 0741:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W726	2442199.12	1974 May 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W727	2442199.13	1974 May 31 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W728	2442199.15	1974 May 31 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W730	2442199.25	1974 May 31 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W731	2442199.34	1974 May 31 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W732	2442199.39	1974 May 31 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W733	2442202.08	1974 Jun 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W734	2442202.13	1974 Jun 3 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W735	2442202.14	1974 Jun 3 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W737	2442202.17	1974 Jun 3 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W738	2442202.18	1974 Jun 3 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A26	2442202.31	1974 Jun 3 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W739	2442203.19	1974 Jun 4 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W740	2442203.25	1974 Jun 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W741	2442203.83	1974 Jun 5 0755:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W742	2442204.07	1974 Jun 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W743	2442204.08	1974 Jun 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W744	2442204.12	1974 Jun 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W746	2442204.17	1974 Jun 5 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W747	2442204.24	1974 Jun 5 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W748	2442204.28	1974 Jun 5 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W749	2442204.33	1974 Jun 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W750	2442204.39	1974 Jun 5 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W752	2442204.60	1974 Jun 6 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W753	2442205.08	1974 Jun 6 1355:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W754	2442205.09	1974 Jun 6 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W755	2442205.13	1974 Jun 6 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W756	2442205.25	1974 Jun 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W757	2442205.33	1974 Jun 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W758	2442206.02	1974 Jun 7 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y214	2442206.07	1974 Jun 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W759	2442206.12	1974 Jun 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W760	2442206.17	1974 Jun 7 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W762	2442206.25	1974 Jun 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W763	2442206.30	1974 Jun 7 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W764	2442206.33	1974 Jun 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W765	2442206.38	1974 Jun 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W766	2442207.07	1974 Jun 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W767	2442209.04	1974 Jun 10 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W768	2442209.07	1974 Jun 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W769	2442209.08	1974 Jun 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W770	2442209.18	1974 Jun 10 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W771	2442209.19	1974 Jun 10 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W772	2442209.21	1974 Jun 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W773	2442209.24	1974 Jun 10 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W774	2442209.31	1974 Jun 10 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W775	2442209.38	1974 Jun 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W776	2442209.96	1974 Jun 11 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W777	2442210.19	1974 Jun 11 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W778	2442211.01	1974 Jun 12 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W779	2442211.07	1974 Jun 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W780	2442211.07	1974 Jun 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W781	2442211.12	1974 Jun 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y218	2442211.15	1974 Jun 12 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y219	2442211.19	1974 Jun 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W784	2442211.24	1974 Jun 12 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W785	2442211.34	1974 Jun 12 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y220	2442211.39	1974 Jun 12 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W786	2442211.40	1974 Jun 12 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W787	2442211.65	1974 Jun 13 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W788	2442212.13	1974 Jun 13 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W789	2442212.21	1974 Jun 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W790	2442213.02	1974 Jun 14 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W791	2442213.12	1974 Jun 14 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W792	2442213.12	1974 Jun 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W793	2442213.17	1974 Jun 14 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W794	2442213.18	1974 Jun 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W795	2442213.33	1974 Jun 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W796	2442216.19	1974 Jun 17 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W797	2442216.23	1974 Jun 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W798	2442216.31	1974 Jun 17 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W799	2442216.38	1974 Jun 17 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W800	2442217.11	1974 Jun 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W801	2442217.19	1974 Jun 18 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W802	2442217.24	1974 Jun 18 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W804	2442218.12	1974 Jun 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W805	2442218.17	1974 Jun 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W806	2442218.17	1974 Jun 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W808	2442218.24	1974 Jun 19 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W809	2442218.24	1974 Jun 19 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W810	2442218.25	1974 Jun 19 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W811	2442218.36	1974 Jun 19 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W812	2442218.41	1974 Jun 19 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W813	2442218.55	1974 Jun 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W814	2442219.34	1974 Jun 20 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W815	2442220.14	1974 Jun 21 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W816	2442220.14	1974 Jun 21 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W817	2442220.17	1974 Jun 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W818	2442220.33	1974 Jun 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W819	2442220.39	1974 Jun 21 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W820	2442220.39	1974 Jun 21 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W821	2442221.51	1974 Jun 23 0015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W822	2442223.23	1974 Jun 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W823	2442223.34	1974 Jun 24 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W824	2442223.38	1974 Jun 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W825	2442224.20	1974 Jun 25 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W826	2442225.12	1974 Jun 26 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W827	2442225.14	1974 Jun 26 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W829	2442225.18	1974 Jun 26 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W830	2442225.25	1974 Jun 26 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W831	2442225.25	1974 Jun 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W832	2442225.35	1974 Jun 26 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W833	2442225.39	1974 Jun 26 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W834	2442225.55	1974 Jun 27 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W835	2442226.18	1974 Jun 27 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W836	2442226.93	1974 Jun 28 1017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W837	2442227.16	1974 Jun 28 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W838	2442227.18	1974 Jun 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W839	2442227.26	1974 Jun 28 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W840	2442227.27	1974 Jun 28 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W841	2442227.33	1974 Jun 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W877	2442230.07	1974 Jul 1 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W878	2442230.14	1974 Jul 1 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W879	2442230.22	1974 Jul 1 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W880	2442230.29	1974 Jul 1 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W881	2442230.33	1974 Jul 1 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W882	2442230.38	1974 Jul 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W883	2442231.07	1974 Jul 2 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W884	2442231.10	1974 Jul 2 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W885	2442231.88	1974 Jul 3 0913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W886	2442232.07	1974 Jul 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W887	2442232.07	1974 Jul 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W888	2442232.12	1974 Jul 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W889	2442232.21	1974 Jul 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W890	2442232.21	1974 Jul 3 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W891	2442232.36	1974 Jul 3 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y231	2442232.37	1974 Jul 3 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W892	2442232.39	1974 Jul 3 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W893	2442233.90	1974 Jul 5 0938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W894	2442234.07	1974 Jul 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W895	2442234.08	1974 Jul 5 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W896	2442234.12	1974 Jul 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W897	2442236.89	1974 Jul 8 0918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W898	2442237.23	1974 Jul 8 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W899	2442237.28	1974 Jul 8 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W900	2442237.33	1974 Jul 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W901	2442237.38	1974 Jul 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W902	2442238.09	1974 Jul 9 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W903	2442238.09	1974 Jul 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W904	2442238.17	1974 Jul 9 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W905	2442239.06	1974 Jul 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W906	2442239.08	1974 Jul 10 1348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W907	2442239.11	1974 Jul 10 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W908	2442239.12	1974 Jul 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y234	2442239.19	1974 Jul 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W909	2442239.22	1974 Jul 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A30	2442239.24	1974 Jul 10 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W910	2442239.33	1974 Jul 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y235	2442239.36	1974 Jul 10 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W911	2442239.38	1974 Jul 10 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y236	2442239.46	1974 Jul 10 2303:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W912	2442239.50	1974 Jul 10 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W913	2442240.03	1974 Jul 11 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W914	2442240.11	1974 Jul 11 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W915	2442240.34	1974 Jul 11 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W916	2442241.06	1974 Jul 12 1329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W917	2442241.08	1974 Jul 12 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W918	2442241.08	1974 Jul 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W919	2442241.11	1974 Jul 12 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W920	2442241.14	1974 Jul 12 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W921	2442241.26	1974 Jul 12 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W922	2442241.32	1974 Jul 12 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W923	2442244.13	1974 Jul 15 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W924	2442244.19	1974 Jul 15 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W925	2442244.22	1974 Jul 15 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W926	2442244.23	1974 Jul 15 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W927	2442244.38	1974 Jul 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W928	2442245.03	1974 Jul 16 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W929	2442245.24	1974 Jul 16 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W930	2442245.34	1974 Jul 16 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W931	2442246.07	1974 Jul 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W932	2442246.07	1974 Jul 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W933	2442246.08	1974 Jul 17 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W934	2442246.08	1974 Jul 17 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W935	2442246.11	1974 Jul 17 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W936	2442246.12	1974 Jul 17 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y239	2442246.19	1974 Jul 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W937	2442246.33	1974 Jul 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W938	2442246.35	1974 Jul 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W939	2442247.11	1974 Jul 18 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W940	2442247.19	1974 Jul 18 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W941	2442247.22	1974 Jul 18 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W942	2442248.09	1974 Jul 19 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W943	2442248.10	1974 Jul 19 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W944	2442248.15	1974 Jul 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W945	2442248.29	1974 Jul 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W946	2442248.33	1974 Jul 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y240	2442248.37	1974 Jul 19 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W947	2442248.39	1974 Jul 19 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W948	2442251.04	1974 Jul 22 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W949	2442251.08	1974 Jul 22 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W950	2442251.10	1974 Jul 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W951	2442251.21	1974 Jul 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W952	2442251.33	1974 Jul 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W953	2442251.35	1974 Jul 22 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W954	2442251.90	1974 Jul 23 0929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W955	2442253.07	1974 Jul 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W956	2442253.12	1974 Jul 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W957	2442253.17	1974 Jul 24 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W958	2442253.25	1974 Jul 24 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y243	2442253.27	1974 Jul 24 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W959	2442253.33	1974 Jul 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y244	2442253.38	1974 Jul 24 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W960	2442253.40	1974 Jul 24 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W962	2442255.06	1974 Jul 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W963	2442255.12	1974 Jul 26 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W964	2442255.12	1974 Jul 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W965	2442255.18	1974 Jul 26 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W966	2442255.35	1974 Jul 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W967	2442258.08	1974 Jul 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W968	2442258.13	1974 Jul 29 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W969	2442258.18	1974 Jul 29 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W970	2442258.20	1974 Jul 29 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W971	2442258.34	1974 Jul 29 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W973	2442259.14	1974 Jul 30 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W976	2442259.36	1974 Jul 30 2037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W984	2442259.88	1974 Jul 31 0911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W985	2442260.07	1974 Jul 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W986	2442260.09	1974 Jul 31 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y247	2442260.12	1974 Jul 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W987	2442260.15	1974 Jul 31 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y248	2442260.19	1974 Jul 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W988	2442260.19	1974 Jul 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W989	2442260.36	1974 Jul 31 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y249	2442260.37	1974 Jul 31 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W990	2442260.38	1974 Jul 31 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W991	2442260.55	1974 Aug 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W992	2442261.09	1974 Aug 1 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W993	2442261.14	1974 Aug 1 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W994	2442261.39	1974 Aug 1 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W995	2442262.07	1974 Aug 2 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W996	2442262.07	1974 Aug 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W998	2442262.16	1974 Aug 2 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W999	2442262.17	1974 Aug 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1000	2442262.33	1974 Aug 2 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1001	2442262.33	1974 Aug 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1002	2442262.40	1974 Aug 2 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1003	2442263.42	1974 Aug 3 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1004	2442264.93	1974 Aug 5 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1005	2442265.04	1974 Aug 5 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1006	2442265.13	1974 Aug 5 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1007	2442265.16	1974 Aug 5 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1008	2442265.17	1974 Aug 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1009	2442265.27	1974 Aug 5 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1010	2442265.41	1974 Aug 5 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1011	2442266.09	1974 Aug 6 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1012	2442266.90	1974 Aug 7 0940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1013	2442266.92	1974 Aug 7 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1014	2442266.96	1974 Aug 7 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1015	2442267.08	1974 Aug 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1016	2442267.14	1974 Aug 7 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1017	2442267.19	1974 Aug 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1018	2442267.21	1974 Aug 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y252	2442267.30	1974 Aug 7 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1020	2442267.31	1974 Aug 7 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1021	2442267.55	1974 Aug 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1022	2442267.92	1974 Aug 8 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1023	2442267.97	1974 Aug 8 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1024	2442268.17	1974 Aug 8 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1025	2442268.92	1974 Aug 9 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1026	2442269.06	1974 Aug 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1027	2442269.08	1974 Aug 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1029	2442269.20	1974 Aug 9 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1030	2442269.36	1974 Aug 9 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y253	2442269.39	1974 Aug 9 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1031	2442271.92	1974 Aug 12 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1032	2442271.96	1974 Aug 12 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1033	2442272.12	1974 Aug 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1034	2442272.13	1974 Aug 12 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1036	2442272.27	1974 Aug 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1037	2442272.38	1974 Aug 12 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1038	2442273.11	1974 Aug 13 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1039	2442273.91	1974 Aug 14 0949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1040	2442274.06	1974 Aug 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1041	2442274.07	1974 Aug 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1042	2442274.09	1974 Aug 14 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y256	2442274.19	1974 Aug 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1044	2442274.23	1974 Aug 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1045	2442274.55	1974 Aug 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1046	2442274.88	1974 Aug 15 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1047	2442275.05	1974 Aug 15 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1048	2442275.17	1974 Aug 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1049	2442275.93	1974 Aug 16 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1050	2442276.09	1974 Aug 16 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1051	2442276.10	1974 Aug 16 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1053	2442276.14	1974 Aug 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1054	2442276.21	1974 Aug 16 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1055	2442276.38	1974 Aug 16 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1056	2442277.25	1974 Aug 17 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1057	2442278.88	1974 Aug 19 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1058	2442279.03	1974 Aug 19 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1059	2442279.12	1974 Aug 19 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1060	2442279.19	1974 Aug 19 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1062	2442279.22	1974 Aug 19 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1063	2442279.27	1974 Aug 19 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1064	2442279.38	1974 Aug 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1065	2442280.05	1974 Aug 20 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1066	2442280.19	1974 Aug 20 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1067	2442280.23	1974 Aug 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y261	2442280.30	1974 Aug 20 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1068	2442280.92	1974 Aug 21 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1069	2442281.07	1974 Aug 21 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1070	2442281.10	1974 Aug 21 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1071	2442281.12	1974 Aug 21 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1073	2442281.17	1974 Aug 21 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y264	2442281.19	1974 Aug 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1074	2442281.20	1974 Aug 21 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1075	2442281.24	1974 Aug 21 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1076	2442281.25	1974 Aug 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1077	2442281.27	1974 Aug 21 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1078	2442281.35	1974 Aug 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1079	2442281.55	1974 Aug 22 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1080	2442282.07	1974 Aug 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1081	2442282.88	1974 Aug 23 0901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1082	2442283.07	1974 Aug 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1083	2442283.08	1974 Aug 23 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1084	2442283.09	1974 Aug 23 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W07	2442415.38	1975 Jan 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W08	2442416.14	1975 Jan 3 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W09	2442416.15	1975 Jan 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y03	2442416.18	1975 Jan 3 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W11	2442416.20	1975 Jan 3 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W12	2442416.23	1975 Jan 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y04	2442416.38	1975 Jan 3 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W13	2442416.39	1975 Jan 3 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W14	2442416.55	1975 Jan 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W15	2442418.89	1975 Jan 6 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W17	2442419.33	1975 Jan 6 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W18	2442419.38	1975 Jan 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W20	2442420.21	1975 Jan 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W21	2442420.27	1975 Jan 7 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W22	2442420.35	1975 Jan 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A03	2442420.89	1975 Jan 8 0922:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W23	2442421.10	1975 Jan 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W24	2442421.13	1975 Jan 8 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y12	2442421.23	1975 Jan 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W26	2442421.38	1975 Jan 8 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W27	2442421.57	1975 Jan 9 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W29	2442422.23	1975 Jan 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W30	2442422.30	1975 Jan 9 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W31	2442422.89	1975 Jan 10 0917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W32	2442423.10	1975 Jan 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y15	2442423.20	1975 Jan 10 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W34	2442423.21	1975 Jan 10 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W35	2442423.23	1975 Jan 10 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W36	2442423.30	1975 Jan 10 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W37	2442423.55	1975 Jan 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W38	2442426.08	1975 Jan 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W40	2442426.33	1975 Jan 13 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W41	2442426.36	1975 Jan 13 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W42	2442426.55	1975 Jan 14 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W43	2442427.11	1975 Jan 14 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W45	2442427.20	1975 Jan 14 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W46	2442427.33	1975 Jan 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W49	2442428.06	1975 Jan 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W50	2442428.11	1975 Jan 15 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W52	2442428.21	1975 Jan 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y24	2442428.23	1975 Jan 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W53	2442428.35	1975 Jan 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y26	2442428.38	1975 Jan 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W54	2442428.39	1975 Jan 15 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W55	2442428.57	1975 Jan 16 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W56	2442429.11	1975 Jan 16 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W58	2442429.25	1975 Jan 16 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W59	2442429.27	1975 Jan 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W60	2442429.35	1975 Jan 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W62	2442430.08	1975 Jan 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W64	2442430.23	1975 Jan 17 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W65	2442430.26	1975 Jan 17 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W66	2442430.35	1975 Jan 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W67	2442430.41	1975 Jan 17 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W70	2442430.55	1975 Jan 18 0113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W71	2442431.84	1975 Jan 19 0812:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W72	2442433.10	1975 Jan 20 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W74	2442433.21	1975 Jan 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W75	2442433.23	1975 Jan 20 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W76	2442433.41	1975 Jan 20 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W78	2442434.21	1975 Jan 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W79	2442434.25	1975 Jan 21 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W80	2442434.36	1975 Jan 21 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W81	2442435.07	1975 Jan 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W82	2442435.10	1975 Jan 22 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W83	2442435.13	1975 Jan 22 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y33	2442435.23	1975 Jan 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W85	2442435.27	1975 Jan 22 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y34	2442435.36	1975 Jan 22 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W86	2442435.37	1975 Jan 22 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W87	2442435.47	1975 Jan 22 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W88	2442435.55	1975 Jan 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W89	2442435.90	1975 Jan 23 0942:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W91	2442436.31	1975 Jan 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W92	2442436.35	1975 Jan 23 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W93	2442436.78	1975 Jan 24 0638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W94	2442437.10	1975 Jan 24 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W95	2442437.13	1975 Jan 24 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W97	2442439.90	1975 Jan 27 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W98	2442440.08	1975 Jan 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W99	2442440.20	1975 Jan 27 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W100	2442440.29	1975 Jan 27 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W101	2442440.29	1975 Jan 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W102	2442440.38	1975 Jan 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W103	2442441.15	1975 Jan 28 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W104	2442441.29	1975 Jan 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W105	2442441.34	1975 Jan 28 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W107	2442441.89	1975 Jan 29 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W108	2442441.98	1975 Jan 29 1130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W109	2442442.10	1975 Jan 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W110	2442442.12	1975 Jan 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y37	2442442.23	1975 Jan 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W112	2442442.59	1975 Jan 30 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A05	2442443.29	1975 Jan 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W114	2442443.29	1975 Jan 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W117	2442443.89	1975 Jan 31 0922:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W118	2442444.10	1975 Jan 31 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W119	2442444.15	1975 Jan 31 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W120	2442444.18	1975 Jan 31 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W121	2442444.31	1975 Jan 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W122	2442444.32	1975 Jan 31 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W123	2442444.55	1975 Feb 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W124	2442446.75	1975 Feb 3 0604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W125	2442447.08	1975 Feb 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W126	2442447.10	1975 Feb 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W127	2442447.21	1975 Feb 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W128	2442447.28	1975 Feb 3 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W129	2442447.35	1975 Feb 3 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W131	2442447.55	1975 Feb 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W132	2442448.19	1975 Feb 4 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W133	2442448.29	1975 Feb 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W136	2442449.06	1975 Feb 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y41	2442449.21	1975 Feb 5 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W137	2442449.23	1975 Feb 5 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W138	2442449.29	1975 Feb 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y43	2442449.35	1975 Feb 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W139	2442449.37	1975 Feb 5 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W140	2442449.55	1975 Feb 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W141	2442450.23	1975 Feb 6 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W142	2442450.28	1975 Feb 6 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W143	2442450.29	1975 Feb 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W144	2442450.38	1975 Feb 6 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W148	2442451.08	1975 Feb 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W149	2442451.10	1975 Feb 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A07	2442451.14	1975 Feb 7 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y44	2442451.20	1975 Feb 7 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W150	2442451.31	1975 Feb 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W151	2442451.35	1975 Feb 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W152	2442451.55	1975 Feb 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W153	2442453.94	1975 Feb 10 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W154	2442454.08	1975 Feb 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W155	2442454.12	1975 Feb 10 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W156	2442454.14	1975 Feb 10 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W157	2442454.22	1975 Feb 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W158	2442454.38	1975 Feb 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W159	2442454.55	1975 Feb 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W160	2442455.15	1975 Feb 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W161	2442455.29	1975 Feb 11 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W162	2442455.29	1975 Feb 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W163	2442455.36	1975 Feb 11 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W165	2442456.17	1975 Feb 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W166	2442456.24	1975 Feb 12 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W167	2442456.32	1975 Feb 12 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W168	2442456.33	1975 Feb 12 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W169	2442456.44	1975 Feb 12 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W171	2442456.55	1975 Feb 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W172	2442456.91	1975 Feb 13 0947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W173	2442457.14	1975 Feb 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W174	2442457.23	1975 Feb 13 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W175	2442457.31	1975 Feb 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W176	2442457.38	1975 Feb 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W177	2442458.10	1975 Feb 14 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W178	2442458.11	1975 Feb 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W179	2442458.13	1975 Feb 14 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W180	2442458.21	1975 Feb 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W181	2442458.26	1975 Feb 14 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W182	2442458.38	1975 Feb 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W184	2442461.11	1975 Feb 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W186	2442462.15	1975 Feb 18 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W187	2442462.18	1975 Feb 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W188	2442462.25	1975 Feb 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W189	2442462.45	1975 Feb 18 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W191	2442462.89	1975 Feb 19 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W192	2442463.14	1975 Feb 19 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W193	2442463.19	1975 Feb 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W194	2442463.25	1975 Feb 19 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W195	2442463.29	1975 Feb 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W196	2442463.32	1975 Feb 19 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W197	2442463.43	1975 Feb 19 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W198	2442463.55	1975 Feb 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W200	2442464.29	1975 Feb 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W202	2442464.43	1975 Feb 20 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W203	2442464.43	1975 Feb 20 2220:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W205	2442464.58	1975 Feb 21 0156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W206	2442465.05	1975 Feb 21 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W207	2442465.17	1975 Feb 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W208	2442465.18	1975 Feb 21 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W209	2442465.21	1975 Feb 21 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W210	2442465.29	1975 Feb 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W212	2442465.31	1975 Feb 21 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y56	2442465.37	1975 Feb 21 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W213	2442465.38	1975 Feb 21 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W215	2442468.23	1975 Feb 24 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W216	2442468.25	1975 Feb 24 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W217	2442468.26	1975 Feb 24 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A08	2442468.31	1975 Feb 24 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W218	2442468.41	1975 Feb 24 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W220	2442468.56	1975 Feb 25 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W221	2442469.12	1975 Feb 25 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W222	2442469.22	1975 Feb 25 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W224	2442469.29	1975 Feb 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W225	2442469.43	1975 Feb 25 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W226	2442470.06	1975 Feb 26 1322:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W227	2442470.15	1975 Feb 26 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W228	2442470.20	1975 Feb 26 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W230	2442470.21	1975 Feb 26 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y60	2442470.34	1975 Feb 26 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W231	2442470.36	1975 Feb 26 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W232	2442470.45	1975 Feb 26 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W233	2442470.51	1975 Feb 27 0012:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W234	2442471.04	1975 Feb 27 1303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W235	2442471.13	1975 Feb 27 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W237	2442471.21	1975 Feb 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W238	2442471.31	1975 Feb 27 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W244	2442471.57	1975 Feb 28 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W245	2442472.03	1975 Feb 28 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W246	2442472.16	1975 Feb 28 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W247	2442472.21	1975 Feb 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W248	2442472.25	1975 Feb 28 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W249	2442472.28	1975 Feb 28 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y62	2442472.43	1975 Feb 28 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W250	2442472.45	1975 Feb 28 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W252	2442472.53	1975 Mar 1 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W253	2442475.06	1975 Mar 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W254	2442475.17	1975 Mar 3 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W255	2442475.21	1975 Mar 3 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W256	2442475.27	1975 Mar 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A10	2442475.28	1975 Mar 3 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W257	2442475.34	1975 Mar 3 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W258	2442475.46	1975 Mar 3 2301:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W259	2442476.05	1975 Mar 4 1312:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W260	2442476.17	1975 Mar 4 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W261	2442476.20	1975 Mar 4 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W262	2442476.21	1975 Mar 4 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W263	2442476.25	1975 Mar 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W264	2442476.27	1975 Mar 4 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W265	2442476.55	1975 Mar 5 0112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W267	2442477.04	1975 Mar 5 1254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W268	2442477.09	1975 Mar 5 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W269	2442477.13	1975 Mar 5 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W270	2442477.16	1975 Mar 5 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W271	2442477.26	1975 Mar 5 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W272	2442477.27	1975 Mar 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W273	2442477.29	1975 Mar 5 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W274	2442477.53	1975 Mar 6 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W276	2442477.70	1975 Mar 6 0442:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W277	2442478.02	1975 Mar 6 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W278	2442478.23	1975 Mar 6 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W279	2442478.32	1975 Mar 6 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W280	2442478.32	1975 Mar 6 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W281	2442478.52	1975 Mar 7 0025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W283	2442479.08	1975 Mar 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W284	2442479.20	1975 Mar 7 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W285	2442479.23	1975 Mar 7 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W286	2442479.30	1975 Mar 7 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W287	2442479.31	1975 Mar 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W288	2442479.33	1975 Mar 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W289	2442479.44	1975 Mar 7 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W291	2442482.04	1975 Mar 10 1302:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W292	2442482.22	1975 Mar 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W293	2442482.25	1975 Mar 10 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W294	2442482.27	1975 Mar 10 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W295	2442482.35	1975 Mar 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W296	2442482.47	1975 Mar 10 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W298	2442483.03	1975 Mar 11 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W299	2442483.23	1975 Mar 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W300	2442483.38	1975 Mar 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W302	2442484.02	1975 Mar 12 1225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W303	2442484.13	1975 Mar 12 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W304	2442484.23	1975 Mar 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W305	2442484.31	1975 Mar 12 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W306	2442484.32	1975 Mar 12 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W307	2442484.33	1975 Mar 12 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W308	2442484.34	1975 Mar 12 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W309	2442485.02	1975 Mar 13 1229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W311	2442485.22	1975 Mar 13 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W313	2442485.29	1975 Mar 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W314	2442485.99	1975 Mar 14 1152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W315	2442486.18	1975 Mar 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W317	2442486.23	1975 Mar 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W318	2442486.25	1975 Mar 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W319	2442486.28	1975 Mar 14 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W320	2442486.29	1975 Mar 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W321	2442486.42	1975 Mar 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W322	2442489.12	1975 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W324	2442489.21	1975 Mar 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W325	2442489.22	1975 Mar 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W326	2442489.23	1975 Mar 17 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W327	2442489.23	1975 Mar 17 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W328	2442489.45	1975 Mar 17 2248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W329	2442489.90	1975 Mar 18 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A12	2442490.12	1975 Mar 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W331	2442490.19	1975 Mar 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W332	2442490.20	1975 Mar 18 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W333	2442490.23	1975 Mar 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W334	2442490.24	1975 Mar 18 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W335	2442490.44	1975 Mar 18 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W336	2442491.07	1975 Mar 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W337	2442491.21	1975 Mar 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W338	2442491.21	1975 Mar 19 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W340	2442491.29	1975 Mar 19 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W341	2442492.05	1975 Mar 20 1318:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W342	2442492.15	1975 Mar 20 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W343	2442492.17	1975 Mar 20 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A14	2442492.21	1975 Mar 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W345	2442493.04	1975 Mar 21 1300:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W346	2442493.07	1975 Mar 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W347	2442493.07	1975 Mar 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W349	2442493.22	1975 Mar 21 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W350	2442493.26	1975 Mar 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W351	2442493.26	1975 Mar 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W352	2442493.38	1975 Mar 21 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W353	2442493.55	1975 Mar 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W354	2442496.10	1975 Mar 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W355	2442496.21	1975 Mar 24 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W357	2442496.23	1975 Mar 24 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W358	2442496.25	1975 Mar 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W359	2442496.26	1975 Mar 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W360	2442496.55	1975 Mar 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W361	2442497.11	1975 Mar 25 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W363	2442497.24	1975 Mar 25 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W364	2442497.25	1975 Mar 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W365	2442497.42	1975 Mar 25 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W366	2442498.05	1975 Mar 26 1308:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W367	2442498.08	1975 Mar 26 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W368	2442498.19	1975 Mar 26 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W370	2442498.22	1975 Mar 26 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W371	2442498.37	1975 Mar 26 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W372	2442498.43	1975 Mar 26 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W373	2442498.55	1975 Mar 27 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W374	2442499.03	1975 Mar 27 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W375	2442499.23	1975 Mar 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W377	2442499.31	1975 Mar 27 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W378	2442499.53	1975 Mar 28 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W379	2442500.02	1975 Mar 28 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W380	2442500.22	1975 Mar 28 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W381	2442500.22	1975 Mar 28 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W382	2442500.30	1975 Mar 28 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W386	2442503.05	1975 Mar 31 1318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W387	2442503.17	1975 Mar 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W388	2442503.21	1975 Mar 31 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W389	2442503.23	1975 Mar 31 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W390	2442503.25	1975 Mar 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W391	2442503.41	1975 Mar 31 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W392	2442503.56	1975 Apr 1 0129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W393	2442504.04	1975 Apr 1 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W394	2442504.16	1975 Apr 1 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W395	2442504.28	1975 Apr 1 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W396	2442504.47	1975 Apr 1 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W397	2442504.53	1975 Apr 2 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W398	2442505.03	1975 Apr 2 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W399	2442505.24	1975 Apr 2 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W400	2442505.31	1975 Apr 2 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y97	2442505.31	1975 Apr 2 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W401	2442505.31	1975 Apr 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y98	2442505.45	1975 Apr 2 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W402	2442505.48	1975 Apr 2 2329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W403	2442505.52	1975 Apr 3 0032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W404	2442506.02	1975 Apr 3 1222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W405	2442506.15	1975 Apr 3 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W406	2442506.23	1975 Apr 3 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W407	2442506.32	1975 Apr 3 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W408	2442506.44	1975 Apr 3 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W410	2442507.07	1975 Apr 4 1333:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W411	2442507.22	1975 Apr 4 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W412	2442507.32	1975 Apr 4 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W413	2442507.55	1975 Apr 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W415	2442510.03	1975 Apr 7 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W416	2442510.22	1975 Apr 7 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W417	2442510.23	1975 Apr 7 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W418	2442510.25	1975 Apr 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W420	2442510.46	1975 Apr 7 2301:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W421	2442510.55	1975 Apr 8 0107:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W423	2442511.24	1975 Apr 8 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W424	2442511.24	1975 Apr 8 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W425	2442511.27	1975 Apr 8 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W426	2442511.45	1975 Apr 8 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W428	2442512.07	1975 Apr 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W429	2442512.09	1975 Apr 9 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W430	2442512.19	1975 Apr 9 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W431	2442512.23	1975 Apr 9 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W432	2442512.33	1975 Apr 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W433	2442512.35	1975 Apr 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W434	2442512.53	1975 Apr 10 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W437	2442513.02	1975 Apr 10 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W438	2442513.18	1975 Apr 10 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W439	2442513.40	1975 Apr 10 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W441	2442514.09	1975 Apr 11 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y105	2442514.17	1975 Apr 11 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W442	2442514.19	1975 Apr 11 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A20	2442514.19	1975 Apr 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W443	2442514.31	1975 Apr 11 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W444	2442517.08	1975 Apr 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W445	2442517.15	1975 Apr 14 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W446	2442517.19	1975 Apr 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W447	2442517.24	1975 Apr 14 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W448	2442517.30	1975 Apr 14 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W449	2442517.39	1975 Apr 14 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W450	2442518.01	1975 Apr 15 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W451	2442518.25	1975 Apr 15 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W453	2442519.06	1975 Apr 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W454	2442519.12	1975 Apr 16 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W455	2442519.16	1975 Apr 16 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W456	2442519.22	1975 Apr 16 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W457	2442519.31	1975 Apr 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y112	2442519.38	1975 Apr 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W458	2442520.18	1975 Apr 17 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W459	2442520.23	1975 Apr 17 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W460	2442520.37	1975 Apr 17 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W462	2442521.06	1975 Apr 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W463	2442521.11	1975 Apr 18 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W464	2442521.19	1975 Apr 18 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W465	2442521.56	1975 Apr 19 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W466	2442524.22	1975 Apr 21 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W467	2442524.22	1975 Apr 21 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W468	2442524.23	1975 Apr 21 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W469	2442524.39	1975 Apr 21 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W470	2442524.50	1975 Apr 22 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W471	2442525.02	1975 Apr 22 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W472	2442525.11	1975 Apr 22 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W473	2442525.23	1975 Apr 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W474	2442526.07	1975 Apr 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W475	2442526.07	1975 Apr 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W476	2442526.10	1975 Apr 23 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W477	2442526.21	1975 Apr 23 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W478	2442526.31	1975 Apr 23 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W479	2442526.33	1975 Apr 23 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y119	2442526.38	1975 Apr 23 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W480	2442526.39	1975 Apr 23 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W481	2442526.50	1975 Apr 24 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W483	2442527.03	1975 Apr 24 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W484	2442527.15	1975 Apr 24 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W485	2442527.22	1975 Apr 24 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W486	2442527.39	1975 Apr 24 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W487	2442528.12	1975 Apr 25 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W488	2442528.13	1975 Apr 25 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W489	2442528.37	1975 Apr 25 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W490	2442528.52	1975 Apr 26 0022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W491	2442531.16	1975 Apr 28 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W492	2442531.17	1975 Apr 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W493	2442531.18	1975 Apr 28 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W494	2442531.23	1975 Apr 28 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W495	2442531.38	1975 Apr 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W496	2442531.52	1975 Apr 29 0033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W497	2442532.02	1975 Apr 29 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W498	2442532.15	1975 Apr 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W499	2442532.20	1975 Apr 29 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W500	2442532.40	1975 Apr 29 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W506	2442533.06	1975 Apr 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W507	2442533.15	1975 Apr 30 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W508	2442533.18	1975 Apr 30 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W509	2442533.22	1975 Apr 30 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W510	2442533.28	1975 Apr 30 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y127	2442533.34	1975 Apr 30 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W511	2442533.55	1975 May 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W512	2442533.96	1975 May 1 1107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y128	2442535.17	1975 May 2 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W513	2442535.19	1975 May 2 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W515	2442535.21	1975 May 2 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W516	2442535.25	1975 May 2 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W517	2442535.31	1975 May 2 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W518	2442535.34	1975 May 2 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W519	2442535.55	1975 May 3 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W520	2442537.89	1975 May 5 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W521	2442538.07	1975 May 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W523	2442538.12	1975 May 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W524	2442538.19	1975 May 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W525	2442538.23	1975 May 5 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W526	2442538.31	1975 May 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W527	2442538.46	1975 May 5 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W528	2442538.50	1975 May 6 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W529	2442539.37	1975 May 6 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A26	2442540.07	1975 May 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W530	2442540.15	1975 May 7 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W531	2442540.15	1975 May 7 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W533	2442540.28	1975 May 7 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W534	2442540.33	1975 May 7 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y137	2442540.38	1975 May 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W535	2442540.39	1975 May 7 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W536	2442540.55	1975 May 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W537	2442541.38	1975 May 8 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W538	2442541.70	1975 May 9 0446:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W539	2442542.07	1975 May 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W540	2442542.11	1975 May 9 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W541	2442542.12	1975 May 9 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W542	2442542.15	1975 May 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y143	2442542.20	1975 May 9 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W544	2442542.22	1975 May 9 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W545	2442542.31	1975 May 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W546	2442542.38	1975 May 9 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W547	2442545.07	1975 May 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W549	2442545.17	1975 May 12 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W550	2442545.22	1975 May 12 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W551	2442545.23	1975 May 12 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W552	2442545.55	1975 May 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W553	2442545.85	1975 May 13 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W554	2442545.93	1975 May 13 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W555	2442546.14	1975 May 13 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W556	2442546.19	1975 May 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W557	2442546.43	1975 May 13 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W558	2442547.07	1975 May 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W559	2442547.07	1975 May 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W560	2442547.08	1975 May 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W562	2442547.21	1975 May 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W563	2442547.22	1975 May 14 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y149	2442547.29	1975 May 14 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W564	2442547.31	1975 May 14 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y151	2442547.38	1975 May 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W565	2442547.39	1975 May 14 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W566	2442547.55	1975 May 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W567	2442548.73	1975 May 16 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W568	2442549.07	1975 May 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W569	2442549.08	1975 May 16 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W570	2442549.10	1975 May 16 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W571	2442549.15	1975 May 16 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W572	2442549.21	1975 May 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W573	2442549.23	1975 May 16 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W574	2442549.25	1975 May 16 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W575	2442549.37	1975 May 16 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W577	2442552.10	1975 May 19 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W578	2442552.11	1975 May 19 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W579	2442552.17	1975 May 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W580	2442552.30	1975 May 19 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W581	2442552.38	1975 May 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W582	2442552.43	1975 May 19 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W583	2442552.55	1975 May 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W584	2442552.97	1975 May 20 1110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W585	2442553.21	1975 May 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W586	2442554.07	1975 May 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W587	2442554.09	1975 May 21 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W588	2442554.09	1975 May 21 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W589	2442554.11	1975 May 21 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W591	2442554.13	1975 May 21 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W593	2442554.15	1975 May 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W594	2442554.17	1975 May 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W595	2442554.33	1975 May 21 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W596	2442554.43	1975 May 21 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W597	2442554.56	1975 May 22 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W598	2442555.82	1975 May 23 0745:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W599	2442555.99	1975 May 23 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W600	2442556.07	1975 May 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W602	2442556.13	1975 May 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W603	2442556.28	1975 May 23 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W604	2442556.35	1975 May 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W605	2442556.43	1975 May 23 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W612	2442559.15	1975 May 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W613	2442559.43	1975 May 26 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W614	2442560.07	1975 May 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W615	2442560.31	1975 May 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W616	2442560.37	1975 May 27 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W617	2442560.49	1975 May 27 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W618	2442560.85	1975 May 28 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W619	2442560.89	1975 May 28 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W620	2442560.94	1975 May 28 1026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W622	2442561.14	1975 May 28 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W623	2442561.19	1975 May 28 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W624	2442561.24	1975 May 28 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W625	2442561.25	1975 May 28 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y173	2442561.40	1975 May 28 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W626	2442561.42	1975 May 28 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W627	2442561.43	1975 May 28 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W628	2442561.55	1975 May 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W629	2442562.07	1975 May 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W630	2442562.37	1975 May 29 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W631	2442562.40	1975 May 29 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W632	2442563.07	1975 May 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W633	2442563.10	1975 May 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W634	2442563.11	1975 May 30 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W635	2442563.15	1975 May 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W637	2442563.24	1975 May 30 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W638	2442563.33	1975 May 30 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W639	2442563.40	1975 May 30 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W653	2442566.17	1975 Jun 2 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W654	2442566.19	1975 Jun 2 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W655	2442566.23	1975 Jun 2 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W656	2442566.33	1975 Jun 2 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W657	2442566.55	1975 Jun 3 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W658	2442567.04	1975 Jun 3 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W659	2442567.11	1975 Jun 3 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W660	2442567.21	1975 Jun 3 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W661	2442568.07	1975 Jun 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W662	2442568.11	1975 Jun 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W664	2442568.13	1975 Jun 4 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W665	2442568.23	1975 Jun 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W666	2442568.24	1975 Jun 4 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W667	2442568.33	1975 Jun 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W668	2442568.54	1975 Jun 5 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W669	2442569.13	1975 Jun 5 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W670	2442569.21	1975 Jun 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W671	2442569.31	1975 Jun 5 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W672	2442569.38	1975 Jun 5 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W673	2442569.42	1975 Jun 5 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W674	2442569.55	1975 Jun 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W675	2442570.07	1975 Jun 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W676	2442570.10	1975 Jun 6 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W677	2442570.19	1975 Jun 6 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W678	2442570.21	1975 Jun 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y183	2442570.38	1975 Jun 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W679	2442570.38	1975 Jun 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W680	2442570.39	1975 Jun 6 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W681	2442573.14	1975 Jun 9 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W682	2442573.15	1975 Jun 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W683	2442573.21	1975 Jun 9 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W684	2442573.22	1975 Jun 9 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W685	2442573.23	1975 Jun 9 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W686	2442573.33	1975 Jun 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W687	2442574.87	1975 Jun 11 0852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W688	2442574.91	1975 Jun 11 0952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W689	2442574.93	1975 Jun 11 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W690	2442575.10	1975 Jun 11 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W691	2442575.10	1975 Jun 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W692	2442575.13	1975 Jun 11 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W694	2442575.38	1975 Jun 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W695	2442575.57	1975 Jun 12 0147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W697	2442577.07	1975 Jun 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W698	2442577.08	1975 Jun 13 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W699	2442577.15	1975 Jun 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W700	2442577.32	1975 Jun 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W701	2442577.38	1975 Jun 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W702	2442579.90	1975 Jun 16 0931:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W703	2442581.15	1975 Jun 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W704	2442581.33	1975 Jun 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W705	2442581.41	1975 Jun 17 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W706	2442581.89	1975 Jun 18 0925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W707	2442582.05	1975 Jun 18 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W708	2442582.07	1975 Jun 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W710	2442582.18	1975 Jun 18 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W711	2442582.29	1975 Jun 18 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W712	2442582.31	1975 Jun 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W713	2442582.35	1975 Jun 18 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W714	2442582.38	1975 Jun 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W715	2442582.55	1975 Jun 19 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W716	2442583.33	1975 Jun 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W717	2442583.89	1975 Jun 20 0921:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W718	2442584.04	1975 Jun 20 1302:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W719	2442584.07	1975 Jun 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W720	2442584.14	1975 Jun 20 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W721	2442584.28	1975 Jun 20 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y205	2442584.33	1975 Jun 20 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y206	2442584.38	1975 Jun 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W722	2442584.38	1975 Jun 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W723	2442584.39	1975 Jun 20 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W724	2442584.56	1975 Jun 21 0123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W725	2442587.07	1975 Jun 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W726	2442587.13	1975 Jun 23 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W727	2442587.15	1975 Jun 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W728	2442587.35	1975 Jun 23 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W729	2442587.43	1975 Jun 23 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A40	2442588.04	1975 Jun 24 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W730	2442588.11	1975 Jun 24 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W731	2442588.20	1975 Jun 24 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W732	2442588.42	1975 Jun 24 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W733	2442588.85	1975 Jun 25 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W734	2442588.94	1975 Jun 25 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W735	2442589.06	1975 Jun 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W736	2442589.06	1975 Jun 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W737	2442589.12	1975 Jun 25 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W738	2442589.20	1975 Jun 25 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W739	2442589.32	1975 Jun 25 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y212	2442589.33	1975 Jun 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W740	2442589.36	1975 Jun 25 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W741	2442589.38	1975 Jun 25 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W742	2442589.55	1975 Jun 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W743	2442590.08	1975 Jun 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W744	2442591.07	1975 Jun 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W745	2442591.16	1975 Jun 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W746	2442591.18	1975 Jun 27 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W747	2442591.36	1975 Jun 27 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W748	2442591.55	1975 Jun 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W755	2442594.07	1975 Jun 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W756	2442594.07	1975 Jun 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W757	2442594.23	1975 Jun 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W758	2442594.26	1975 Jun 30 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W759	2442594.55	1975 Jul 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W760	2442595.07	1975 Jul 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W761	2442596.07	1975 Jul 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A41	2442596.10	1975 Jul 2 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W763	2442596.24	1975 Jul 2 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W764	2442596.32	1975 Jul 2 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W765	2442596.32	1975 Jul 2 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y218	2442596.38	1975 Jul 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W766	2442596.38	1975 Jul 2 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W767	2442596.57	1975 Jul 3 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W768	2442597.33	1975 Jul 3 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W769	2442600.90	1975 Jul 7 0935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W770	2442601.10	1975 Jul 7 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W771	2442601.10	1975 Jul 7 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W772	2442601.38	1975 Jul 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W773	2442601.48	1975 Jul 7 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W774	2442601.53	1975 Jul 8 0038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W775	2442602.15	1975 Jul 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W776	2442602.90	1975 Jul 9 0931:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W777	2442603.05	1975 Jul 9 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W778	2442603.06	1975 Jul 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W780	2442603.23	1975 Jul 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W781	2442603.29	1975 Jul 9 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W782	2442603.31	1975 Jul 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W783	2442603.58	1975 Jul 10 0157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W784	2442604.33	1975 Jul 10 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W785	2442604.51	1975 Jul 11 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W786	2442605.01	1975 Jul 11 1211:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W787	2442605.10	1975 Jul 11 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W788	2442605.17	1975 Jul 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W789	2442605.29	1975 Jul 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y223	2442605.30	1975 Jul 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W790	2442605.32	1975 Jul 11 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W791	2442605.40	1975 Jul 11 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W792	2442606.15	1975 Jul 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W793	2442607.04	1975 Jul 13 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W794	2442608.09	1975 Jul 14 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W795	2442608.16	1975 Jul 14 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W796	2442608.31	1975 Jul 14 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W797	2442608.42	1975 Jul 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W798	2442608.47	1975 Jul 14 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W799	2442608.50	1975 Jul 15 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W800	2442608.95	1975 Jul 15 1046:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W801	2442609.12	1975 Jul 15 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y225	2442609.16	1975 Jul 15 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W802	2442609.38	1975 Jul 15 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W803	2442609.96	1975 Jul 16 1058:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W804	2442610.10	1975 Jul 16 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W805	2442610.10	1975 Jul 16 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W806	2442610.15	1975 Jul 16 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W808	2442610.31	1975 Jul 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W809	2442610.48	1975 Jul 16 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W810	2442610.53	1975 Jul 17 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W811	2442611.19	1975 Jul 17 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W812	2442611.55	1975 Jul 18 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W813	2442612.10	1975 Jul 18 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W814	2442612.17	1975 Jul 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W815	2442612.31	1975 Jul 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W816	2442612.36	1975 Jul 18 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W817	2442615.07	1975 Jul 21 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W818	2442615.13	1975 Jul 21 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W819	2442615.15	1975 Jul 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W820	2442615.25	1975 Jul 21 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y229	2442615.46	1975 Jul 21 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W821	2442615.48	1975 Jul 21 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W822	2442616.39	1975 Jul 22 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W823	2442616.57	1975 Jul 23 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W824	2442617.17	1975 Jul 23 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W826	2442617.23	1975 Jul 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W827	2442617.24	1975 Jul 23 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W828	2442617.26	1975 Jul 23 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W829	2442617.30	1975 Jul 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W830	2442617.70	1975 Jul 24 0443:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	SR19,111	-
1975-W831	2442618.33	1975 Jul 24 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W832	2442618.52	1975 Jul 25 0022:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W833	2442619.01	1975 Jul 25 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W834	2442619.17	1975 Jul 25 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W835	2442619.22	1975 Jul 25 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A44	2442619.28	1975 Jul 25 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W836	2442619.42	1975 Jul 25 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W837	2442619.44	1975 Jul 25 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W838	2442621.90	1975 Jul 28 0942:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W839	2442622.15	1975 Jul 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W840	2442622.17	1975 Jul 28 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W841	2442622.18	1975 Jul 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W843	2442622.49	1975 Jul 28 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W844	2442622.55	1975 Jul 29 0109:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W845	2442623.15	1975 Jul 29 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W847	2442623.25	1975 Jul 29 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W849	2442623.31	1975 Jul 29 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W850	2442624.03	1975 Jul 30 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W851	2442624.09	1975 Jul 30 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W852	2442624.12	1975 Jul 30 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W853	2442624.14	1975 Jul 30 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W854	2442624.23	1975 Jul 30 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W856	2442624.41	1975 Jul 30 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W861	2442624.57	1975 Jul 31 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W862	2442625.17	1975 Jul 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W863	2442625.42	1975 Jul 31 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W864	2442625.90	1975 Aug 1 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W865	2442626.10	1975 Aug 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W866	2442626.11	1975 Aug 1 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W868	2442626.12	1975 Aug 1 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W869	2442626.15	1975 Aug 1 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y238	2442626.18	1975 Aug 1 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W870	2442626.43	1975 Aug 1 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W871	2442626.55	1975 Aug 2 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W872	2442629.06	1975 Aug 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W873	2442629.07	1975 Aug 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W874	2442629.13	1975 Aug 4 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W875	2442629.23	1975 Aug 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W876	2442629.37	1975 Aug 4 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W877	2442629.38	1975 Aug 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W878	2442629.55	1975 Aug 5 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W879	2442630.15	1975 Aug 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W880	2442630.21	1975 Aug 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W881	2442630.25	1975 Aug 5 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W882	2442630.32	1975 Aug 5 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W883	2442631.02	1975 Aug 6 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W884	2442631.03	1975 Aug 6 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W885	2442631.13	1975 Aug 6 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y242	2442631.16	1975 Aug 6 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W886	2442631.18	1975 Aug 6 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W887	2442631.22	1975 Aug 6 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W889	2442631.27	1975 Aug 6 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W890	2442631.39	1975 Aug 6 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W891	2442631.47	1975 Aug 6 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W892	2442631.55	1975 Aug 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W893	2442632.15	1975 Aug 7 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W894	2442632.15	1975 Aug 7 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W895	2442632.22	1975 Aug 7 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y244	2442632.49	1975 Aug 7 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W896	2442632.51	1975 Aug 8 0012:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W897	2442632.89	1975 Aug 8 0923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W898	2442633.13	1975 Aug 8 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W899	2442633.40	1975 Aug 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W900	2442633.55	1975 Aug 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W901	2442636.03	1975 Aug 11 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W902	2442636.15	1975 Aug 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W903	2442636.16	1975 Aug 11 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W905	2442637.13	1975 Aug 12 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W906	2442637.15	1975 Aug 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A46	2442637.18	1975 Aug 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W907	2442637.18	1975 Aug 12 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W908	2442637.27	1975 Aug 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W909	2442637.41	1975 Aug 12 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W910	2442637.42	1975 Aug 12 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W911	2442637.46	1975 Aug 12 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W912	2442637.52	1975 Aug 13 0022:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W913	2442637.96	1975 Aug 13 1103:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W914	2442638.08	1975 Aug 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W915	2442638.15	1975 Aug 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y248	2442638.21	1975 Aug 13 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W917	2442638.24	1975 Aug 13 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W918	2442638.24	1975 Aug 13 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W919	2442638.27	1975 Aug 13 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W920	2442638.40	1975 Aug 13 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W921	2442638.45	1975 Aug 13 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W922	2442638.58	1975 Aug 14 0158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W923	2442639.40	1975 Aug 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y250	2442639.66	1975 Aug 15 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W924	2442639.67	1975 Aug 15 0409:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W925	2442639.72	1975 Aug 15 0521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W926	2442639.74	1975 Aug 15 0551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y251	2442639.77	1975 Aug 15 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W927	2442640.07	1975 Aug 15 1342:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W928	2442640.14	1975 Aug 15 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W929	2442640.15	1975 Aug 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W930	2442640.15	1975 Aug 15 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W932	2442640.21	1975 Aug 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W933	2442640.36	1975 Aug 15 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W934	2442640.55	1975 Aug 16 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W935	2442642.96	1975 Aug 18 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W936	2442643.13	1975 Aug 18 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W937	2442643.19	1975 Aug 18 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W938	2442643.23	1975 Aug 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W940	2442643.25	1975 Aug 18 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W941	2442643.43	1975 Aug 18 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W942	2442644.25	1975 Aug 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W943	2442644.51	1975 Aug 20 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W944	2442644.97	1975 Aug 20 1114:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y256	2442645.20	1975 Aug 20 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W946	2442645.24	1975 Aug 20 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y257	2442645.36	1975 Aug 20 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W947	2442645.38	1975 Aug 20 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W948	2442645.51	1975 Aug 21 0019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W949	2442646.14	1975 Aug 21 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W950	2442646.57	1975 Aug 22 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W951	2442647.08	1975 Aug 22 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W953	2442647.12	1975 Aug 22 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W954	2442647.14	1975 Aug 22 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W955	2442647.16	1975 Aug 22 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W956	2442647.42	1975 Aug 22 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W957	2442650.02	1975 Aug 25 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W958	2442650.12	1975 Aug 25 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W960	2442650.24	1975 Aug 25 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W961	2442650.30	1975 Aug 25 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W962	2442650.36	1975 Aug 25 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W963	2442651.12	1975 Aug 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W964	2442652.05	1975 Aug 27 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W965	2442652.16	1975 Aug 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W966	2442652.17	1975 Aug 27 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W967	2442652.18	1975 Aug 27 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W969	2442652.28	1975 Aug 27 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W970	2442652.30	1975 Aug 27 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W971	2442652.37	1975 Aug 27 2048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W972	2442652.52	1975 Aug 28 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W973	2442652.97	1975 Aug 28 1110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W974	2442653.27	1975 Aug 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W975	2442654.11	1975 Aug 29 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W977	2442654.23	1975 Aug 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W978	2442654.45	1975 Aug 29 2248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W983	2442658.04	1975 Sep 2 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W984	2442658.14	1975 Sep 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W985	2442658.16	1975 Sep 2 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y264	2442658.25	1975 Sep 2 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W986	2442658.25	1975 Sep 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W987	2442658.27	1975 Sep 2 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W988	2442658.52	1975 Sep 3 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W989	2442659.07	1975 Sep 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W990	2442659.14	1975 Sep 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A50	2442659.18	1975 Sep 3 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W992	2442659.21	1975 Sep 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W993	2442659.23	1975 Sep 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W994	2442659.27	1975 Sep 3 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y270	2442659.43	1975 Sep 3 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W995	2442659.45	1975 Sep 3 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W996	2442659.48	1975 Sep 3 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W997	2442660.00	1975 Sep 4 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W998	2442660.19	1975 Sep 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W999	2442660.35	1975 Sep 4 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1000	2442661.12	1975 Sep 5 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A52	2442661.23	1975 Sep 5 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1002	2442661.29	1975 Sep 5 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1003	2442661.52	1975 Sep 6 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1004	2442664.02	1975 Sep 8 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1006	2442664.43	1975 Sep 8 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1007	2442664.47	1975 Sep 8 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1008	2442665.42	1975 Sep 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1010	2442665.61	1975 Sep 10 0243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1011	2442665.77	1975 Sep 10 0634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1012	2442665.89	1975 Sep 10 0927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1013	2442666.11	1975 Sep 10 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1014	2442666.17	1975 Sep 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y01	2442780.15	1976 Jan 2 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W02	2442780.55	1976 Jan 3 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W03	2442783.07	1976 Jan 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W05	2442783.12	1976 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W06	2442783.12	1976 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W07	2442783.15	1976 Jan 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W08	2442783.19	1976 Jan 5 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W09	2442783.27	1976 Jan 5 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W10	2442783.27	1976 Jan 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W11	2442783.38	1976 Jan 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W12	2442783.46	1976 Jan 5 2306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W13	2442783.55	1976 Jan 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W14	2442784.07	1976 Jan 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W16	2442784.25	1976 Jan 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W17	2442784.29	1976 Jan 6 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W18	2442785.07	1976 Jan 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W20	2442785.26	1976 Jan 7 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W21	2442785.27	1976 Jan 7 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W22	2442785.32	1976 Jan 7 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y07	2442785.33	1976 Jan 7 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W23	2442785.34	1976 Jan 7 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W24	2442785.35	1976 Jan 7 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W25	2442785.42	1976 Jan 7 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W26	2442785.58	1976 Jan 8 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W27	2442786.10	1976 Jan 8 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W28	2442786.12	1976 Jan 8 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W30	2442786.19	1976 Jan 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W31	2442787.07	1976 Jan 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A01	2442787.11	1976 Jan 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W32	2442787.25	1976 Jan 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W34	2442787.40	1976 Jan 9 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W35	2442787.43	1976 Jan 9 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y11	2442787.43	1976 Jan 9 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W36	2442787.45	1976 Jan 9 2245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W38	2442790.22	1976 Jan 12 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W39	2442790.25	1976 Jan 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W40	2442790.25	1976 Jan 12 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W41	2442790.30	1976 Jan 12 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W42	2442790.33	1976 Jan 12 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W43	2442790.41	1976 Jan 12 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W44	2442790.44	1976 Jan 12 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W45	2442791.05	1976 Jan 13 1308:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W46	2442791.07	1976 Jan 13 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W48	2442791.22	1976 Jan 13 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W49	2442791.23	1976 Jan 13 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W50	2442791.25	1976 Jan 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W51	2442792.03	1976 Jan 14 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W52	2442792.09	1976 Jan 14 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W54	2442792.19	1976 Jan 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W55	2442792.20	1976 Jan 14 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W56	2442792.22	1976 Jan 14 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W57	2442792.30	1976 Jan 14 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W58	2442792.41	1976 Jan 14 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y20	2442792.41	1976 Jan 14 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W59	2442792.42	1976 Jan 14 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W60	2442792.43	1976 Jan 14 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W61	2442792.43	1976 Jan 14 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W62	2442792.89	1976 Jan 15 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W63	2442793.10	1976 Jan 15 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W64	2442793.16	1976 Jan 15 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W66	2442793.20	1976 Jan 15 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y21	2442793.44	1976 Jan 15 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W67	2442793.45	1976 Jan 15 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W68	2442794.02	1976 Jan 16 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W69	2442794.08	1976 Jan 16 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W70	2442794.15	1976 Jan 16 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W71	2442794.19	1976 Jan 16 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W72	2442794.21	1976 Jan 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W73	2442794.25	1976 Jan 16 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W74	2442794.29	1976 Jan 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W76	2442794.40	1976 Jan 16 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W77	2442794.44	1976 Jan 16 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W78	2442796.26	1976 Jan 18 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W79	2442796.35	1976 Jan 18 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W80	2442797.04	1976 Jan 19 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W81	2442797.09	1976 Jan 19 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W82	2442797.14	1976 Jan 19 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A02	2442797.19	1976 Jan 19 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W83	2442797.23	1976 Jan 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W84	2442797.27	1976 Jan 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W85	2442797.35	1976 Jan 19 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W86	2442797.41	1976 Jan 19 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W87	2442797.43	1976 Jan 19 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W88	2442797.51	1976 Jan 20 0011:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W91	2442798.21	1976 Jan 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W92	2442798.32	1976 Jan 20 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W94	2442799.11	1976 Jan 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W95	2442799.17	1976 Jan 21 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W96	2442799.20	1976 Jan 21 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W97	2442799.20	1976 Jan 21 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W99	2442799.23	1976 Jan 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W100	2442799.31	1976 Jan 21 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W101	2442799.42	1976 Jan 21 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W102	2442799.54	1976 Jan 22 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W103	2442799.58	1976 Jan 22 0152:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W104	2442800.12	1976 Jan 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W106	2442800.21	1976 Jan 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1900	2442800.27	1976 Jan 22 1835	Rocketsonde	-	-	0.000	GSFC	SS	-	PSU/Hale	Ionos	SR19,143	-	-
1976-W1901	2442808.35	1976 Jan 30 2025	Rocketsonde	-	-	0.000	GSFC	SS	-	PSU/Hale	Ionos	SR19,143	-	-
1976-W107	2442800.25	1976 Jan 22 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W108	2442800.25	1976 Jan 22 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W109	2442800.30	1976 Jan 22 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W110	2442800.31	1976 Jan 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W111	2442800.92	1976 Jan 23 1003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W112	2442801.07	1976 Jan 23 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W113	2442801.17	1976 Jan 23 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W114	2442801.18	1976 Jan 23 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W116	2442801.28	1976 Jan 23 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W117	2442801.40	1976 Jan 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W118	2442801.40	1976 Jan 23 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W119	2442801.46	1976 Jan 23 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W120	2442801.53	1976 Jan 24 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W121	2442803.71	1976 Jan 26 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W122	2442804.07	1976 Jan 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W123	2442804.20	1976 Jan 26 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W124	2442804.21	1976 Jan 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W125	2442804.21	1976 Jan 26 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W126	2442804.24	1976 Jan 26 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W127	2442804.31	1976 Jan 26 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W128	2442804.37	1976 Jan 26 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W129	2442804.47	1976 Jan 26 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W130	2442805.21	1976 Jan 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W131	2442805.34	1976 Jan 27 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W132	2442805.56	1976 Jan 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W133	2442806.07	1976 Jan 28 1341:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A07	2442806.12	1976 Jan 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W134	2442806.14	1976 Jan 28 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W135	2442806.19	1976 Jan 28 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W136	2442806.20	1976 Jan 28 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W137	2442806.21	1976 Jan 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W138	2442806.21	1976 Jan 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W139	2442806.35	1976 Jan 28 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W140	2442806.38	1976 Jan 28 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W141	2442806.50	1976 Jan 28 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W143	2442807.22	1976 Jan 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W144	2442807.31	1976 Jan 29 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y37	2442807.33	1976 Jan 29 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W145	2442807.51	1976 Jan 30 0013:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W147	2442807.57	1976 Jan 30 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W148	2442808.19	1976 Jan 30 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W149	2442808.21	1976 Jan 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W150	2442808.23	1976 Jan 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W151	2442808.24	1976 Jan 30 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W152	2442808.30	1976 Jan 30 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W163	2442808.81	1976 Jan 31 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W164	2442811.09	1976 Feb 2 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A08	2442811.17	1976 Feb 2 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W165	2442811.22	1976 Feb 2 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W166	2442811.29	1976 Feb 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W167	2442811.33	1976 Feb 2 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W168	2442811.34	1976 Feb 2 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W169	2442811.38	1976 Feb 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W170	2442811.47	1976 Feb 2 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W171	2442812.05	1976 Feb 3 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W172	2442812.16	1976 Feb 3 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W173	2442812.20	1976 Feb 3 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W175	2442812.23	1976 Feb 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W176	2442812.24	1976 Feb 3 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W177	2442813.01	1976 Feb 4 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W179	2442813.16	1976 Feb 4 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W180	2442813.16	1976 Feb 4 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W181	2442813.19	1976 Feb 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y51	2442813.23	1976 Feb 4 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W182	2442813.25	1976 Feb 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W183	2442813.32	1976 Feb 4 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W184	2442813.32	1976 Feb 4 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W185	2442813.55	1976 Feb 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W187	2442814.14	1976 Feb 5 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W188	2442814.20	1976 Feb 5 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W189	2442814.29	1976 Feb 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A09	2442814.31	1976 Feb 5 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W193	2442815.02	1976 Feb 6 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W196	2442815.21	1976 Feb 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W197	2442815.25	1976 Feb 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W198	2442815.34	1976 Feb 6 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W199	2442815.42	1976 Feb 6 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W200	2442815.81	1976 Feb 7 0732:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W201	2442818.10	1976 Feb 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W203	2442818.23	1976 Feb 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W204	2442818.27	1976 Feb 9 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W205	2442818.29	1976 Feb 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W206	2442818.38	1976 Feb 9 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W207	2442818.48	1976 Feb 9 2337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W209	2442818.99	1976 Feb 10 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W210	2442819.22	1976 Feb 10 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W211	2442819.43	1976 Feb 10 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W212	2442820.02	1976 Feb 11 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W213	2442820.17	1976 Feb 11 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y66	2442820.21	1976 Feb 11 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W215	2442820.22	1976 Feb 11 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W216	2442820.26	1976 Feb 11 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W217	2442820.27	1976 Feb 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W218	2442820.29	1976 Feb 11 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W219	2442820.34	1976 Feb 11 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W221	2442821.14	1976 Feb 12 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W222	2442821.16	1976 Feb 12 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W224	2442821.29	1976 Feb 12 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W225	2442821.29	1976 Feb 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W226	2442821.40	1976 Feb 12 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W227	2442821.50	1976 Feb 12 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W228	2442821.74	1976 Feb 13 0540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W229	2442821.77	1976 Feb 13 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W231	2442822.03	1976 Feb 13 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W232	2442822.13	1976 Feb 13 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W234	2442822.22	1976 Feb 13 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W235	2442822.26	1976 Feb 13 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y70	2442822.40	1976 Feb 13 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W236	2442822.42	1976 Feb 13 2207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W237	2442822.53	1976 Feb 14 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W238	2442823.48	1976 Feb 14 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W239	2442824.75	1976 Feb 16 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W242	2442825.23	1976 Feb 16 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W243	2442825.60	1976 Feb 17 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W245	2442825.99	1976 Feb 17 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W246	2442826.11	1976 Feb 17 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W247	2442826.21	1976 Feb 17 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W248	2442826.23	1976 Feb 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W249	2442826.50	1976 Feb 17 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W250	2442827.02	1976 Feb 18 1226:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W251	2442827.11	1976 Feb 18 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W253	2442827.13	1976 Feb 18 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y79	2442827.17	1976 Feb 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W254	2442827.17	1976 Feb 18 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W255	2442827.18	1976 Feb 18 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W257	2442827.21	1976 Feb 18 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W258	2442827.27	1976 Feb 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y81	2442827.38	1976 Feb 18 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W259	2442827.40	1976 Feb 18 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W260	2442827.42	1976 Feb 18 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W261	2442827.54	1976 Feb 19 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y82	2442827.55	1976 Feb 19 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W262	2442828.14	1976 Feb 19 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W263	2442828.19	1976 Feb 19 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W264	2442828.19	1976 Feb 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W265	2442829.07	1976 Feb 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W266	2442829.19	1976 Feb 20 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W267	2442829.19	1976 Feb 20 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W268	2442829.25	1976 Feb 20 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W269	2442829.26	1976 Feb 20 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W270	2442829.37	1976 Feb 20 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W271	2442829.44	1976 Feb 20 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W272	2442829.52	1976 Feb 21 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W273	2442829.97	1976 Feb 21 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W274	2442830.62	1976 Feb 22 0248:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W275	2442832.18	1976 Feb 23 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W276	2442832.20	1976 Feb 23 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W277	2442832.22	1976 Feb 23 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W278	2442832.41	1976 Feb 23 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W279	2442832.43	1976 Feb 23 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W280	2442832.47	1976 Feb 23 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W281	2442832.56	1976 Feb 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W282	2442832.59	1976 Feb 24 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W283	2442833.22	1976 Feb 24 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W284	2442833.23	1976 Feb 24 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W285	2442833.35	1976 Feb 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W286	2442833.52	1976 Feb 25 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W287	2442833.61	1976 Feb 25 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W288	2442833.94	1976 Feb 25 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W289	2442834.04	1976 Feb 25 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W290	2442834.14	1976 Feb 25 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W291	2442834.16	1976 Feb 25 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W292	2442834.19	1976 Feb 25 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W293	2442834.29	1976 Feb 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W294	2442834.35	1976 Feb 25 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W295	2442834.37	1976 Feb 25 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y97	2442834.38	1976 Feb 25 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W296	2442834.38	1976 Feb 25 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W297	2442834.40	1976 Feb 25 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y98	2442834.56	1976 Feb 26 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W298	2442834.59	1976 Feb 26 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W299	2442834.64	1976 Feb 26 0314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W300	2442835.23	1976 Feb 26 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W301	2442835.37	1976 Feb 26 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W302	2442835.61	1976 Feb 27 0240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W304	2442835.95	1976 Feb 27 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W305	2442836.07	1976 Feb 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W306	2442836.13	1976 Feb 27 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W307	2442836.19	1976 Feb 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W308	2442836.25	1976 Feb 27 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W309	2442836.29	1976 Feb 27 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W310	2442836.37	1976 Feb 27 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W311	2442836.41	1976 Feb 27 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W312	2442836.42	1976 Feb 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W313	2442836.58	1976 Feb 28 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W314	2442836.82	1976 Feb 28 0740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W323	2442837.97	1976 Feb 29 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W324	2442838.73	1976 Mar 1 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W325	2442838.97	1976 Mar 1 1117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W326	2442839.01	1976 Mar 1 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W327	2442839.22	1976 Mar 1 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W328	2442839.24	1976 Mar 1 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W329	2442839.25	1976 Mar 1 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W330	2442839.27	1976 Mar 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W331	2442839.40	1976 Mar 1 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W332	2442839.47	1976 Mar 1 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W333	2442839.65	1976 Mar 2 0332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W334	2442839.73	1976 Mar 2 0535:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W335	2442839.96	1976 Mar 2 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W336	2442840.26	1976 Mar 2 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W337	2442840.41	1976 Mar 2 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W339	2442841.02	1976 Mar 3 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W340	2442841.18	1976 Mar 3 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W341	2442841.19	1976 Mar 3 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W342	2442841.20	1976 Mar 3 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W343	2442841.20	1976 Mar 3 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W344	2442841.21	1976 Mar 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W345	2442841.24	1976 Mar 3 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W346	2442841.24	1976 Mar 3 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W347	2442841.26	1976 Mar 3 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W348	2442841.28	1976 Mar 3 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W349	2442841.30	1976 Mar 3 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y107	2442841.39	1976 Mar 3 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W350	2442841.40	1976 Mar 3 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W351	2442841.41	1976 Mar 3 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W352	2442841.50	1976 Mar 3 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W353	2442841.59	1976 Mar 4 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W354	2442842.15	1976 Mar 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W355	2442842.22	1976 Mar 4 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W356	2442842.40	1976 Mar 4 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W357	2442842.43	1976 Mar 4 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W358	2442842.59	1976 Mar 5 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W360	2442842.94	1976 Mar 5 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W361	2442843.07	1976 Mar 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W362	2442843.15	1976 Mar 5 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W363	2442843.19	1976 Mar 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W364	2442843.19	1976 Mar 5 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W365	2442843.29	1976 Mar 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A13	2442843.41	1976 Mar 5 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A14	2442843.42	1976 Mar 5 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W366	2442843.95	1976 Mar 6 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W369	2442846.01	1976 Mar 8 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W370	2442846.14	1976 Mar 8 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W371	2442846.17	1976 Mar 8 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W372	2442846.24	1976 Mar 8 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W373	2442846.27	1976 Mar 8 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W374	2442846.29	1976 Mar 8 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W375	2442846.30	1976 Mar 8 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W376	2442846.39	1976 Mar 8 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A15	2442846.43	1976 Mar 8 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W377	2442847.04	1976 Mar 9 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W378	2442847.17	1976 Mar 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W379	2442847.20	1976 Mar 9 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W380	2442847.33	1976 Mar 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W381	2442848.03	1976 Mar 10 1236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A17	2442848.11	1976 Mar 10 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W382	2442848.14	1976 Mar 10 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W383	2442848.15	1976 Mar 10 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W384	2442848.17	1976 Mar 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W385	2442848.18	1976 Mar 10 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W386	2442848.19	1976 Mar 10 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W387	2442848.25	1976 Mar 10 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W388	2442848.28	1976 Mar 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W389	2442848.41	1976 Mar 10 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W390	2442848.44	1976 Mar 10 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W393	2442848.92	1976 Mar 11 1004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W395	2442849.15	1976 Mar 11 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W396	2442849.19	1976 Mar 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W397	2442849.25	1976 Mar 11 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A18	2442850.03	1976 Mar 12 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W398	2442850.14	1976 Mar 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W399	2442850.15	1976 Mar 12 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W400	2442850.19	1976 Mar 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W401	2442850.19	1976 Mar 12 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y117	2442850.23	1976 Mar 12 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W402	2442850.44	1976 Mar 12 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W403	2442850.49	1976 Mar 12 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W404	2442852.86	1976 Mar 15 0835:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W407	2442853.02	1976 Mar 15 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W408	2442853.12	1976 Mar 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W409	2442853.18	1976 Mar 15 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W410	2442853.19	1976 Mar 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W411	2442853.25	1976 Mar 15 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W412	2442853.27	1976 Mar 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W413	2442853.40	1976 Mar 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W414	2442853.46	1976 Mar 15 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W415	2442854.15	1976 Mar 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W416	2442854.29	1976 Mar 16 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W417	2442854.33	1976 Mar 16 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W419	2442855.12	1976 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W420	2442855.16	1976 Mar 17 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W421	2442855.19	1976 Mar 17 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W422	2442855.21	1976 Mar 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W424	2442855.23	1976 Mar 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W425	2442855.23	1976 Mar 17 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W426	2442855.27	1976 Mar 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W427	2442855.30	1976 Mar 17 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W428	2442855.50	1976 Mar 17 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W429	2442855.71	1976 Mar 18 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W430	2442856.16	1976 Mar 18 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y128	2442856.40	1976 Mar 18 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W431	2442856.42	1976 Mar 18 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W432	2442856.84	1976 Mar 19 0815:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W433	2442857.07	1976 Mar 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W434	2442857.10	1976 Mar 19 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W435	2442857.16	1976 Mar 19 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W436	2442857.20	1976 Mar 19 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W437	2442857.21	1976 Mar 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W438	2442857.30	1976 Mar 19 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W439	2442857.32	1976 Mar 19 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W440	2442857.42	1976 Mar 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W441	2442857.43	1976 Mar 19 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W442	2442857.67	1976 Mar 20 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W443	2442860.03	1976 Mar 22 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W444	2442860.12	1976 Mar 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W445	2442860.19	1976 Mar 22 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W446	2442860.24	1976 Mar 22 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W447	2442860.24	1976 Mar 22 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W448	2442860.26	1976 Mar 22 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W449	2442860.29	1976 Mar 22 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W450	2442860.29	1976 Mar 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W451	2442860.38	1976 Mar 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W453	2442860.72	1976 Mar 23 0520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W454	2442861.72	1976 Mar 24 0515:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W455	2442862.07	1976 Mar 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W456	2442862.11	1976 Mar 24 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W457	2442862.14	1976 Mar 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W458	2442862.16	1976 Mar 24 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W459	2442862.17	1976 Mar 24 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W460	2442862.19	1976 Mar 24 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W461	2442862.22	1976 Mar 24 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W462	2442862.27	1976 Mar 24 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W463	2442862.29	1976 Mar 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W464	2442862.39	1976 Mar 24 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y135	2442862.39	1976 Mar 24 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W466	2442863.02	1976 Mar 25 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W467	2442863.16	1976 Mar 25 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W468	2442863.21	1976 Mar 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W469	2442863.38	1976 Mar 25 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W471	2442863.74	1976 Mar 26 0545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W472	2442864.14	1976 Mar 26 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W473	2442864.15	1976 Mar 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W474	2442864.15	1976 Mar 26 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y137	2442864.17	1976 Mar 26 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W475	2442864.19	1976 Mar 26 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W476	2442864.20	1976 Mar 26 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y139	2442864.31	1976 Mar 26 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W477	2442864.34	1976 Mar 26 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W478	2442864.40	1976 Mar 26 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W479	2442864.41	1976 Mar 26 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A19	2442866.75	1976 Mar 29 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W481	2442867.02	1976 Mar 29 1231:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W482	2442867.19	1976 Mar 29 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W483	2442867.23	1976 Mar 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W484	2442867.24	1976 Mar 29 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W485	2442867.25	1976 Mar 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W486	2442867.25	1976 Mar 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W487	2442867.29	1976 Mar 29 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W488	2442867.30	1976 Mar 29 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W489	2442867.35	1976 Mar 29 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W491	2442868.19	1976 Mar 30 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W494	2442868.81	1976 Mar 31 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W495	2442869.07	1976 Mar 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A20	2442869.16	1976 Mar 31 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W496	2442869.17	1976 Mar 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W497	2442869.19	1976 Mar 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W498	2442869.19	1976 Mar 31 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W499	2442869.23	1976 Mar 31 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y147	2442869.24	1976 Mar 31 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W500	2442869.25	1976 Mar 31 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W501	2442869.45	1976 Mar 31 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W502	2442870.23	1976 Apr 1 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W503	2442870.42	1976 Apr 1 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W504	2442871.07	1976 Apr 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W505	2442871.07	1976 Apr 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W506	2442871.10	1976 Apr 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W507	2442871.14	1976 Apr 2 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W509	2442871.19	1976 Apr 2 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W510	2442871.29	1976 Apr 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y150	2442871.37	1976 Apr 2 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W511	2442871.39	1976 Apr 2 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W512	2442871.39	1976 Apr 2 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W513	2442871.42	1976 Apr 2 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W514	2442874.02	1976 Apr 5 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W515	2442874.24	1976 Apr 5 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W516	2442874.26	1976 Apr 5 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W517	2442874.29	1976 Apr 5 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W518	2442874.33	1976 Apr 5 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W519	2442874.48	1976 Apr 5 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W520	2442875.20	1976 Apr 6 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W521	2442875.42	1976 Apr 6 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W522	2442876.07	1976 Apr 7 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W523	2442876.07	1976 Apr 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W524	2442876.18	1976 Apr 7 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W525	2442876.19	1976 Apr 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W527	2442876.21	1976 Apr 7 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y158	2442876.21	1976 Apr 7 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W528	2442876.22	1976 Apr 7 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W529	2442876.23	1976 Apr 7 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W530	2442876.38	1976 Apr 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W531	2442876.44	1976 Apr 7 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W532	2442876.56	1976 Apr 8 0125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W533	2442878.03	1976 Apr 9 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W534	2442878.15	1976 Apr 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W535	2442878.17	1976 Apr 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W536	2442878.19	1976 Apr 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W538	2442878.20	1976 Apr 9 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W539	2442878.25	1976 Apr 9 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W540	2442878.26	1976 Apr 9 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W541	2442878.34	1976 Apr 9 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W542	2442878.40	1976 Apr 9 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W543	2442881.12	1976 Apr 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W544	2442881.16	1976 Apr 12 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W545	2442881.16	1976 Apr 12 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W547	2442881.22	1976 Apr 12 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W548	2442881.26	1976 Apr 12 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W549	2442881.29	1976 Apr 12 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W550	2442881.33	1976 Apr 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W551	2442881.40	1976 Apr 12 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A21	2442881.44	1976 Apr 12 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W552	2442881.50	1976 Apr 13 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W553	2442881.99	1976 Apr 13 1144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W554	2442882.14	1976 Apr 13 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W556	2442883.03	1976 Apr 14 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W557	2442883.06	1976 Apr 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W558	2442883.14	1976 Apr 14 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W559	2442883.16	1976 Apr 14 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W560	2442883.19	1976 Apr 14 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W561	2442883.19	1976 Apr 14 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W564	2442883.22	1976 Apr 14 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y171	2442883.23	1976 Apr 14 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W565	2442883.27	1976 Apr 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W566	2442883.35	1976 Apr 14 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W567	2442883.38	1976 Apr 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y172	2442883.38	1976 Apr 14 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W568	2442883.40	1976 Apr 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W569	2442883.58	1976 Apr 15 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W570	2442884.01	1976 Apr 15 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W571	2442884.19	1976 Apr 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W572	2442884.21	1976 Apr 15 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W573	2442885.11	1976 Apr 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W574	2442885.15	1976 Apr 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W575	2442885.16	1976 Apr 16 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W576	2442885.19	1976 Apr 16 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W577	2442885.28	1976 Apr 16 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W578	2442885.41	1976 Apr 16 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y175	2442885.50	1976 Apr 16 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W579	2442888.04	1976 Apr 19 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W580	2442888.18	1976 Apr 19 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W581	2442888.19	1976 Apr 19 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W582	2442888.26	1976 Apr 19 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W583	2442888.28	1976 Apr 19 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W584	2442888.35	1976 Apr 19 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W585	2442888.41	1976 Apr 19 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W586	2442888.54	1976 Apr 20 0055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W588	2442889.20	1976 Apr 20 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W590	2442890.06	1976 Apr 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W591	2442890.16	1976 Apr 21 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W592	2442890.20	1976 Apr 21 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W593	2442890.21	1976 Apr 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W594	2442890.22	1976 Apr 21 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W595	2442890.23	1976 Apr 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y182	2442890.25	1976 Apr 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W596	2442890.30	1976 Apr 21 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W597	2442890.38	1976 Apr 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W598	2442890.38	1976 Apr 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y183	2442890.41	1976 Apr 21 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W599	2442890.43	1976 Apr 21 2220:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W600	2442890.55	1976 Apr 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W601	2442891.02	1976 Apr 22 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W602	2442891.17	1976 Apr 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W603	2442891.25	1976 Apr 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W604	2442891.38	1976 Apr 22 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W605	2442891.39	1976 Apr 22 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W606	2442892.12	1976 Apr 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W607	2442892.13	1976 Apr 23 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W608	2442892.16	1976 Apr 23 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W609	2442892.21	1976 Apr 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W610	2442892.22	1976 Apr 23 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y185	2442892.50	1976 Apr 24 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W612	2442895.12	1976 Apr 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W613	2442895.12	1976 Apr 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W614	2442895.15	1976 Apr 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W615	2442895.19	1976 Apr 26 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W616	2442895.24	1976 Apr 26 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W617	2442895.32	1976 Apr 26 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W618	2442895.38	1976 Apr 26 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W619	2442895.41	1976 Apr 26 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y186	2442895.47	1976 Apr 26 2319:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W621	2442896.23	1976 Apr 27 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W623	2442897.07	1976 Apr 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W624	2442897.07	1976 Apr 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W625	2442897.11	1976 Apr 28 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y190	2442897.12	1976 Apr 28 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W626	2442897.15	1976 Apr 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W627	2442897.16	1976 Apr 28 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W628	2442897.19	1976 Apr 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W629	2442897.19	1976 Apr 28 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W630	2442897.31	1976 Apr 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y192	2442897.37	1976 Apr 28 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W631	2442897.39	1976 Apr 28 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W632	2442897.42	1976 Apr 28 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W633	2442897.51	1976 Apr 29 0011:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W635	2442898.03	1976 Apr 29 1237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W636	2442898.16	1976 Apr 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W637	2442898.20	1976 Apr 29 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W638	2442898.26	1976 Apr 29 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W639	2442898.38	1976 Apr 29 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W648	2442899.12	1976 Apr 30 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W649	2442899.14	1976 Apr 30 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W650	2442899.15	1976 Apr 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W651	2442899.15	1976 Apr 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W652	2442899.18	1976 Apr 30 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W653	2442899.23	1976 Apr 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W655	2442899.29	1976 Apr 30 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W656	2442899.55	1976 May 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W657	2442900.17	1976 May 1 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W659	2442902.13	1976 May 3 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A25	2442902.15	1976 May 3 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W660	2442902.17	1976 May 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W661	2442902.19	1976 May 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W662	2442902.19	1976 May 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W663	2442902.19	1976 May 3 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W665	2442902.23	1976 May 3 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W666	2442902.23	1976 May 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W667	2442902.34	1976 May 3 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W668	2442902.41	1976 May 3 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y195	2442902.56	1976 May 4 0122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W669	2442902.99	1976 May 4 1144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W670	2442903.05	1976 May 4 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W671	2442903.12	1976 May 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W672	2442903.25	1976 May 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W673	2442904.08	1976 May 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W674	2442904.08	1976 May 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W675	2442904.09	1976 May 5 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W676	2442904.10	1976 May 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W678	2442904.15	1976 May 5 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W679	2442904.18	1976 May 5 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W680	2442904.20	1976 May 5 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W681	2442904.20	1976 May 5 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W682	2442904.24	1976 May 5 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W683	2442904.26	1976 May 5 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W684	2442904.28	1976 May 5 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y201	2442904.35	1976 May 5 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y202	2442904.41	1976 May 5 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W685	2442904.43	1976 May 5 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W686	2442904.50	1976 May 6 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W687	2442905.17	1976 May 6 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W688	2442905.21	1976 May 6 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W689	2442906.05	1976 May 7 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W690	2442906.05	1976 May 7 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W691	2442906.16	1976 May 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A27	2442906.18	1976 May 7 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W692	2442906.18	1976 May 7 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W693	2442906.19	1976 May 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W695	2442906.23	1976 May 7 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W696	2442906.32	1976 May 7 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W697	2442906.42	1976 May 7 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W698	2442906.51	1976 May 8 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W699	2442907.19	1976 May 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W700	2442908.19	1976 May 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W701	2442909.07	1976 May 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W702	2442909.09	1976 May 10 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W703	2442909.10	1976 May 10 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W704	2442909.18	1976 May 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W706	2442909.19	1976 May 10 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W707	2442909.23	1976 May 10 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W708	2442909.25	1976 May 10 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W709	2442909.43	1976 May 10 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W710	2442909.44	1976 May 10 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A28	2442909.71	1976 May 11 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A29	2442909.99	1976 May 11 1144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W712	2442910.22	1976 May 11 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W714	2442911.03	1976 May 12 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W715	2442911.08	1976 May 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W716	2442911.10	1976 May 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W717	2442911.12	1976 May 12 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W718	2442911.14	1976 May 12 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W719	2442911.18	1976 May 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W720	2442911.21	1976 May 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W722	2442911.22	1976 May 12 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W723	2442911.35	1976 May 12 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W724	2442911.40	1976 May 12 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W725	2442911.55	1976 May 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W726	2442912.02	1976 May 13 1222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W727	2442912.25	1976 May 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y209	2442912.37	1976 May 13 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W728	2442912.38	1976 May 13 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W729	2442913.11	1976 May 14 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W730	2442913.12	1976 May 14 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W731	2442913.16	1976 May 14 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W732	2442913.20	1976 May 14 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W734	2442913.30	1976 May 14 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W735	2442913.54	1976 May 15 0051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W736	2442916.04	1976 May 17 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W737	2442916.09	1976 May 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W738	2442916.15	1976 May 17 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W739	2442916.17	1976 May 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W741	2442916.21	1976 May 17 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W742	2442916.23	1976 May 17 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W743	2442916.23	1976 May 17 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W744	2442916.27	1976 May 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W745	2442916.35	1976 May 17 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W746	2442916.41	1976 May 17 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W747	2442916.86	1976 May 18 0840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W748	2442916.92	1976 May 18 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W750	2442917.40	1976 May 18 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W752	2442918.07	1976 May 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A30	2442918.11	1976 May 19 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W754	2442918.11	1976 May 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W755	2442918.15	1976 May 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W756	2442918.18	1976 May 19 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W757	2442918.20	1976 May 19 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W759	2442918.24	1976 May 19 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W760	2442918.25	1976 May 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y215	2442918.25	1976 May 19 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W761	2442918.28	1976 May 19 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W762	2442918.32	1976 May 19 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y216	2442918.40	1976 May 19 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W764	2442918.42	1976 May 19 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W765	2442918.54	1976 May 20 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W766	2442918.55	1976 May 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W767	2442919.02	1976 May 20 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W769	2442919.26	1976 May 20 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W770	2442919.40	1976 May 20 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W771	2442920.12	1976 May 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W772	2442920.17	1976 May 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W774	2442920.18	1976 May 21 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W775	2442920.19	1976 May 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y220	2442920.21	1976 May 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W776	2442920.31	1976 May 21 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W777	2442920.52	1976 May 22 0035:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W778	2442921.83	1976 May 23 0800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W779	2442922.00	1976 May 23 1204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W780	2442923.09	1976 May 24 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W781	2442923.17	1976 May 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W782	2442923.17	1976 May 24 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W783	2442923.18	1976 May 24 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W784	2442923.21	1976 May 24 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W785	2442923.23	1976 May 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W786	2442923.37	1976 May 24 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A32	2442923.38	1976 May 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y222	2442923.48	1976 May 24 2334:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W788	2442924.15	1976 May 25 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W789	2442924.49	1976 May 25 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W790	2442925.07	1976 May 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W791	2442925.07	1976 May 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W792	2442925.11	1976 May 26 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W793	2442925.12	1976 May 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W794	2442925.14	1976 May 26 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W795	2442925.15	1976 May 26 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y228	2442925.17	1976 May 26 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W796	2442925.18	1976 May 26 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W797	2442925.24	1976 May 26 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W798	2442925.26	1976 May 26 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W799	2442925.28	1976 May 26 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y229	2442925.51	1976 May 27 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W801	2442926.02	1976 May 27 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W802	2442926.23	1976 May 27 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W803	2442926.40	1976 May 27 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W804	2442927.04	1976 May 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W805	2442927.10	1976 May 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y231	2442927.12	1976 May 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W806	2442927.14	1976 May 28 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W808	2442927.18	1976 May 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W809	2442927.33	1976 May 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y232	2442927.38	1976 May 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W810	2442927.40	1976 May 28 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W811	2442927.55	1976 May 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W817	2442930.17	1976 May 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W818	2442931.05	1976 Jun 1 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W819	2442931.11	1976 Jun 1 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W820	2442931.16	1976 Jun 1 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W821	2442931.16	1976 Jun 1 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W822	2442931.19	1976 Jun 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W823	2442931.20	1976 Jun 1 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W824	2442931.33	1976 Jun 1 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W825	2442932.05	1976 Jun 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W826	2442932.07	1976 Jun 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W827	2442932.09	1976 Jun 2 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W828	2442932.12	1976 Jun 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y238	2442932.14	1976 Jun 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W829	2442932.14	1976 Jun 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W830	2442932.14	1976 Jun 2 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W832	2442932.16	1976 Jun 2 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W833	2442932.16	1976 Jun 2 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W834	2442932.17	1976 Jun 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W835	2442932.22	1976 Jun 2 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W836	2442932.31	1976 Jun 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W837	2442932.44	1976 Jun 2 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W838	2442933.14	1976 Jun 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W839	2442933.44	1976 Jun 3 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y239	2442933.51	1976 Jun 4 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W840	2442934.03	1976 Jun 4 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W841	2442934.10	1976 Jun 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W842	2442934.17	1976 Jun 4 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W843	2442934.17	1976 Jun 4 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W844	2442934.23	1976 Jun 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W845	2442937.11	1976 Jun 7 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W846	2442937.12	1976 Jun 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W847	2442937.15	1976 Jun 7 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W848	2442937.23	1976 Jun 7 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W849	2442937.48	1976 Jun 7 2337:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W850	2442938.23	1976 Jun 8 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W853	2442939.04	1976 Jun 9 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W854	2442939.06	1976 Jun 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W855	2442939.13	1976 Jun 9 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W857	2442939.21	1976 Jun 9 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W858	2442939.21	1976 Jun 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W859	2442939.23	1976 Jun 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W860	2442939.29	1976 Jun 9 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y243	2442939.47	1976 Jun 9 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W861	2442939.48	1976 Jun 9 2337:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W862	2442939.51	1976 Jun 10 0011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W863	2442941.07	1976 Jun 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W864	2442941.07	1976 Jun 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W865	2442941.11	1976 Jun 11 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W866	2442941.15	1976 Jun 11 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y244	2442941.16	1976 Jun 11 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W867	2442941.18	1976 Jun 11 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W868	2442941.19	1976 Jun 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W869	2442941.20	1976 Jun 11 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W870	2442944.04	1976 Jun 14 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W871	2442944.11	1976 Jun 14 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W872	2442944.18	1976 Jun 14 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W873	2442944.21	1976 Jun 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W874	2442944.49	1976 Jun 14 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W876	2442945.40	1976 Jun 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A34	2442946.10	1976 Jun 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W878	2442946.12	1976 Jun 16 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W880	2442946.13	1976 Jun 16 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y247	2442946.15	1976 Jun 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W881	2442946.15	1976 Jun 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W882	2442946.21	1976 Jun 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W884	2442946.28	1976 Jun 16 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W885	2442946.42	1976 Jun 16 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W886	2442946.51	1976 Jun 17 0012:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W888	2442947.03	1976 Jun 17 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W889	2442947.18	1976 Jun 17 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W890	2442947.22	1976 Jun 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y248	2442947.38	1976 Jun 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W891	2442947.39	1976 Jun 17 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y249	2442947.52	1976 Jun 18 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W892	2442948.18	1976 Jun 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W893	2442951.08	1976 Jun 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W894	2442951.09	1976 Jun 21 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W896	2442951.17	1976 Jun 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W897	2442951.21	1976 Jun 21 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W898	2442951.23	1976 Jun 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W899	2442951.47	1976 Jun 21 2317:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W900	2442952.40	1976 Jun 22 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A35	2442953.07	1976 Jun 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W901	2442953.09	1976 Jun 23 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W903	2442953.15	1976 Jun 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W904	2442953.15	1976 Jun 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W905	2442953.16	1976 Jun 23 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W907	2442953.17	1976 Jun 23 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W909	2442953.27	1976 Jun 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y254	2442953.38	1976 Jun 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W910	2442953.39	1976 Jun 23 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W911	2442953.39	1976 Jun 23 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y255	2442953.55	1976 Jun 24 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W912	2442954.07	1976 Jun 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W913	2442954.20	1976 Jun 24 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W914	2442954.31	1976 Jun 24 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W915	2442954.40	1976 Jun 24 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W916	2442955.09	1976 Jun 25 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W917	2442955.10	1976 Jun 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W918	2442955.41	1976 Jun 25 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A36	2442958.15	1976 Jun 28 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W920	2442958.21	1976 Jun 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W921	2442958.38	1976 Jun 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A37	2442958.41	1976 Jun 28 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y260	2442958.50	1976 Jun 28 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W922	2442958.97	1976 Jun 29 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W923	2442959.10	1976 Jun 29 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W925	2442959.13	1976 Jun 29 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W926	2442959.18	1976 Jun 29 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W927	2442959.25	1976 Jun 29 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W928	2442960.12	1976 Jun 30 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-Y264	2442960.17	1976 Jun 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A38	2442960.21	1976 Jun 30 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W930	2442960.25	1976 Jun 30 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W931	2442960.29	1976 Jun 30 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W932	2442960.30	1976 Jun 30 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W933	2442960.39	1976 Jun 30 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W934	2442961.16	1976 Jul 1 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W935	2442961.21	1976 Jul 1 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W936	2442961.39	1976 Jul 1 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W937	2442962.07	1976 Jul 2 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W938	2442962.08	1976 Jul 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W939	2442962.11	1976 Jul 2 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W940	2442962.13	1976 Jul 2 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y267	2442962.29	1976 Jul 2 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W941	2442962.31	1976 Jul 2 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W942	2442965.14	1976 Jul 5 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W943	2442966.16	1976 Jul 6 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W944	2442966.27	1976 Jul 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W945	2442966.40	1976 Jul 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W946	2442966.59	1976 Jul 7 0203:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W947	2442967.03	1976 Jul 7 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W948	2442967.05	1976 Jul 7 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W949	2442967.06	1976 Jul 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W950	2442967.14	1976 Jul 7 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W952	2442967.21	1976 Jul 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y272	2442967.22	1976 Jul 7 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y273	2442967.26	1976 Jul 7 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W953	2442967.27	1976 Jul 7 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y274	2442967.40	1976 Jul 7 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W954	2442967.42	1976 Jul 7 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W955	2442967.55	1976 Jul 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W956	2442968.18	1976 Jul 8 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W957	2442968.40	1976 Jul 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W958	2442969.07	1976 Jul 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W959	2442969.10	1976 Jul 9 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W960	2442969.10	1976 Jul 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W961	2442969.10	1976 Jul 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W963	2442969.21	1976 Jul 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A39	2442969.36	1976 Jul 9 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W964	2442969.55	1976 Jul 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W965	2442972.04	1976 Jul 12 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W966	2442972.10	1976 Jul 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W967	2442972.12	1976 Jul 12 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W968	2442972.14	1976 Jul 12 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W970	2442972.20	1976 Jul 12 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W971	2442972.23	1976 Jul 12 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W972	2442972.30	1976 Jul 12 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A40	2442972.39	1976 Jul 12 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W973	2442972.42	1976 Jul 12 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W974	2442972.52	1976 Jul 13 0025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W975	2442974.08	1976 Jul 14 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W976	2442974.10	1976 Jul 14 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y282	2442974.17	1976 Jul 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W977	2442974.17	1976 Jul 14 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W979	2442974.19	1976 Jul 14 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W980	2442974.21	1976 Jul 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W982	2442974.28	1976 Jul 14 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W983	2442974.30	1976 Jul 14 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W984	2442974.38	1976 Jul 14 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W985	2442974.39	1976 Jul 14 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A42	2442974.39	1976 Jul 14 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y284	2442974.51	1976 Jul 15 0013:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W986	2442975.26	1976 Jul 15 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W987	2442975.37	1976 Jul 15 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W988	2442976.01	1976 Jul 16 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W989	2442976.10	1976 Jul 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W990	2442976.12	1976 Jul 16 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A43	2442976.40	1976 Jul 16 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y285	2442976.44	1976 Jul 16 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y287	2442976.57	1976 Jul 17 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W14	2443147.22	1977 Jan 3 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A01	2443147.25	1977 Jan 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W15	2443147.27	1977 Jan 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W16	2443147.35	1977 Jan 3 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W17	2443147.51	1977 Jan 4 0009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A02	2443147.55	1977 Jan 4 0108:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W18	2443148.02	1977 Jan 4 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W20	2443148.19	1977 Jan 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W21	2443148.20	1977 Jan 4 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W22	2443148.23	1977 Jan 4 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W23	2443148.35	1977 Jan 4 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W24	2443148.40	1977 Jan 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W25	2443148.40	1977 Jan 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W29	2443149.07	1977 Jan 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W30	2443149.09	1977 Jan 5 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W31	2443149.10	1977 Jan 5 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W32	2443149.10	1977 Jan 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W33	2443149.12	1977 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W34	2443149.15	1977 Jan 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y11	2443149.21	1977 Jan 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W36	2443149.22	1977 Jan 5 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W37	2443149.22	1977 Jan 5 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W38	2443149.31	1977 Jan 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W39	2443149.33	1977 Jan 5 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W40	2443149.39	1977 Jan 5 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W41	2443149.58	1977 Jan 6 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W42	2443150.10	1977 Jan 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W43	2443150.14	1977 Jan 6 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W44	2443150.16	1977 Jan 6 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W45	2443150.29	1977 Jan 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W47	2443151.15	1977 Jan 7 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W48	2443151.21	1977 Jan 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W49	2443151.28	1977 Jan 7 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W50	2443151.36	1977 Jan 7 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W51	2443151.38	1977 Jan 7 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W52	2443151.39	1977 Jan 7 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W53	2443152.21	1977 Jan 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W54	2443152.25	1977 Jan 8 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W55	2443152.40	1977 Jan 8 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W56	2443152.40	1977 Jan 8 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W57	2443154.02	1977 Jan 10 1229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W58	2443154.11	1977 Jan 10 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W59	2443154.19	1977 Jan 10 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W60	2443154.21	1977 Jan 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W61	2443154.22	1977 Jan 10 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W62	2443154.29	1977 Jan 10 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W63	2443154.35	1977 Jan 10 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W64	2443154.51	1977 Jan 11 0008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A03	2443154.54	1977 Jan 11 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W65	2443155.15	1977 Jan 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W66	2443155.19	1977 Jan 11 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W67	2443155.22	1977 Jan 11 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W68	2443155.37	1977 Jan 11 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W72	2443156.04	1977 Jan 12 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W73	2443156.14	1977 Jan 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W74	2443156.14	1977 Jan 12 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y16	2443156.16	1977 Jan 12 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W75	2443156.17	1977 Jan 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W76	2443156.19	1977 Jan 12 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y17	2443156.21	1977 Jan 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W77	2443156.21	1977 Jan 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W78	2443156.24	1977 Jan 12 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y18	2443156.29	1977 Jan 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W79	2443156.30	1977 Jan 12 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W80	2443156.34	1977 Jan 12 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W82	2443156.54	1977 Jan 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W83	2443156.55	1977 Jan 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W84	2443157.12	1977 Jan 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W85	2443157.20	1977 Jan 13 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W86	2443157.40	1977 Jan 13 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A04	2443158.06	1977 Jan 14 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W87	2443158.07	1977 Jan 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W88	2443158.14	1977 Jan 14 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W89	2443158.17	1977 Jan 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W90	2443158.19	1977 Jan 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W92	2443158.21	1977 Jan 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W93	2443158.23	1977 Jan 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W94	2443158.35	1977 Jan 14 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W95	2443158.39	1977 Jan 14 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W96	2443159.06	1977 Jan 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W97	2443161.10	1977 Jan 17 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W98	2443161.17	1977 Jan 17 1600:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	SR19,141	-
1977-W99	2443161.19	1977 Jan 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W100	2443161.20	1977 Jan 17 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W102	2443161.21	1977 Jan 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W103	2443161.31	1977 Jan 17 1930:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W104	2443161.34	1977 Jan 17 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W105	2443161.36	1977 Jan 17 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W106	2443161.48	1977 Jan 17 2334:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y20	2443161.59	1977 Jan 18 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W107	2443162.02	1977 Jan 18 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W108	2443162.17	1977 Jan 18 1607:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W109	2443162.20	1977 Jan 18 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W110	2443162.20	1977 Jan 18 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W111	2443162.22	1977 Jan 18 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W112	2443162.26	1977 Jan 18 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W113	2443162.31	1977 Jan 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W114	2443162.33	1977 Jan 18 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W115	2443162.44	1977 Jan 18 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y23	2443162.50	1977 Jan 19 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y24	2443162.56	1977 Jan 19 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W116	2443163.07	1977 Jan 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-Y27	2443163.12	1977 Jan 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W117	2443163.14	1977 Jan 19 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A06	2443163.17	1977 Jan 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W119	2443163.19	1977 Jan 19 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W120	2443163.19	1977 Jan 19 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W121	2443163.21	1977 Jan 19 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W124	2443163.23	1977 Jan 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W125	2443163.26	1977 Jan 19 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y28	2443163.26	1977 Jan 19 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y29	2443163.34	1977 Jan 19 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W126	2443163.34	1977 Jan 19 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W127	2443163.38	1977 Jan 19 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W128	2443163.40	1977 Jan 19 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W129	2443163.40	1977 Jan 19 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W130	2443163.41	1977 Jan 19 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W131	2443163.54	1977 Jan 20 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W132	2443164.03	1977 Jan 20 1237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W133	2443164.12	1977 Jan 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W134	2443164.14	1977 Jan 20 1520:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W136	2443164.23	1977 Jan 20 1725:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W137	2443164.31	1977 Jan 20 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W138	2443164.47	1977 Jan 20 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W140	2443165.09	1977 Jan 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W141	2443165.14	1977 Jan 21 1514:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W142	2443165.16	1977 Jan 21 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W144	2443165.17	1977 Jan 21 1559:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W145	2443165.17	1977 Jan 21 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W146	2443165.21	1977 Jan 21 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A07	2443165.29	1977 Jan 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W147	2443165.31	1977 Jan 21 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W148	2443165.36	1977 Jan 21 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W149	2443165.46	1977 Jan 21 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W150	2443165.55	1977 Jan 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W151	2443166.15	1977 Jan 22 1530:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W152	2443166.20	1977 Jan 22 1654:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W153	2443166.21	1977 Jan 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W154	2443166.42	1977 Jan 22 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W155	2443166.47	1977 Jan 22 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W156	2443166.47	1977 Jan 22 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W158	2443167.16	1977 Jan 23 1546:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W159	2443167.21	1977 Jan 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W160	2443167.25	1977 Jan 23 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W161	2443167.42	1977 Jan 23 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W162	2443167.47	1977 Jan 23 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W163	2443167.50	1977 Jan 24 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W164	2443168.10	1977 Jan 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W165	2443168.11	1977 Jan 24 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W166	2443168.15	1977 Jan 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W167	2443168.15	1977 Jan 24 1541:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W168	2443168.17	1977 Jan 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W169	2443168.19	1977 Jan 24 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W170	2443168.21	1977 Jan 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W171	2443168.25	1977 Jan 24 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W172	2443168.46	1977 Jan 24 2256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W173	2443168.46	1977 Jan 24 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W174	2443168.50	1977 Jan 25 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W175	2443169.02	1977 Jan 25 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W176	2443169.14	1977 Jan 25 1514:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W177	2443169.21	1977 Jan 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W178	2443169.35	1977 Jan 25 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W179	2443169.47	1977 Jan 25 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W180	2443170.07	1977 Jan 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W181	2443170.10	1977 Jan 26 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W182	2443170.15	1977 Jan 26 1530:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W183	2443170.15	1977 Jan 26 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W185	2443170.21	1977 Jan 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W186	2443170.32	1977 Jan 26 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y38	2443170.36	1977 Jan 26 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W187	2443170.37	1977 Jan 26 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W188	2443170.40	1977 Jan 26 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W189	2443170.41	1977 Jan 26 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W190	2443170.58	1977 Jan 27 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W191	2443171.14	1977 Jan 27 1514:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W192	2443171.14	1977 Jan 27 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W193	2443171.17	1977 Jan 27 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W194	2443171.19	1977 Jan 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W195	2443171.25	1977 Jan 27 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W196	2443171.32	1977 Jan 27 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W197	2443171.36	1977 Jan 27 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W198	2443171.40	1977 Jan 27 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W199	2443171.58	1977 Jan 28 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W200	2443172.07	1977 Jan 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W201	2443172.12	1977 Jan 28 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W203	2443172.17	1977 Jan 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W204	2443172.17	1977 Jan 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W205	2443172.18	1977 Jan 28 1623:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W206	2443172.19	1977 Jan 28 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W207	2443172.25	1977 Jan 28 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W208	2443172.32	1977 Jan 28 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W209	2443172.36	1977 Jan 28 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W210	2443172.38	1977 Jan 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W211	2443172.42	1977 Jan 28 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W212	2443172.48	1977 Jan 28 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W213	2443172.50	1977 Jan 29 0001:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W214	2443173.16	1977 Jan 29 1544:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W215	2443173.21	1977 Jan 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W216	2443173.25	1977 Jan 29 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W217	2443173.42	1977 Jan 29 2207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W218	2443173.47	1977 Jan 29 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W219	2443173.48	1977 Jan 29 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W220	2443174.15	1977 Jan 30 1536:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W221	2443174.21	1977 Jan 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W222	2443174.25	1977 Jan 30 1800:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W223	2443174.42	1977 Jan 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W224	2443174.47	1977 Jan 30 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W235	2443175.08	1977 Jan 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W236	2443175.11	1977 Jan 31 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W238	2443175.19	1977 Jan 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W239	2443175.19	1977 Jan 31 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W240	2443175.21	1977 Jan 31 1700:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W241	2443175.23	1977 Jan 31 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W242	2443175.27	1977 Jan 31 1830:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W243	2443175.32	1977 Jan 31 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W244	2443175.46	1977 Jan 31 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W245	2443176.19	1977 Feb 1 1626:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W246	2443176.21	1977 Feb 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W247	2443176.29	1977 Feb 1 1859:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W248	2443176.37	1977 Feb 1 2048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W249	2443176.40	1977 Feb 1 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W250	2443176.42	1977 Feb 1 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W252	2443177.02	1977 Feb 2 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W253	2443177.07	1977 Feb 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W254	2443177.10	1977 Feb 2 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W255	2443177.17	1977 Feb 2 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W256	2443177.19	1977 Feb 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W257	2443177.21	1977 Feb 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W258	2443177.21	1977 Feb 2 1702:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y44	2443177.25	1977 Feb 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W259	2443177.44	1977 Feb 2 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W260	2443177.49	1977 Feb 2 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W261	2443177.54	1977 Feb 3 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W262	2443177.67	1977 Feb 3 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W263	2443178.14	1977 Feb 3 1526:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W264	2443178.19	1977 Feb 3 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W265	2443178.21	1977 Feb 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W266	2443178.21	1977 Feb 3 1700:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W267	2443178.31	1977 Feb 3 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W268	2443178.40	1977 Feb 3 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W269	2443178.52	1977 Feb 4 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W270	2443178.58	1977 Feb 4 0148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W271	2443179.02	1977 Feb 4 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W272	2443179.11	1977 Feb 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W273	2443179.16	1977 Feb 4 1545:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W274	2443179.19	1977 Feb 4 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W275	2443179.19	1977 Feb 4 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W276	2443179.20	1977 Feb 4 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W277	2443179.27	1977 Feb 4 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W278	2443179.30	1977 Feb 4 1913:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W279	2443179.37	1977 Feb 4 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W280	2443179.39	1977 Feb 4 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W281	2443179.39	1977 Feb 4 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W282	2443179.40	1977 Feb 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W283	2443179.49	1977 Feb 4 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W284	2443179.53	1977 Feb 5 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W285	2443180.49	1977 Feb 5 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W287	2443181.49	1977 Feb 6 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W288	2443182.02	1977 Feb 7 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W289	2443182.14	1977 Feb 7 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W290	2443182.15	1977 Feb 7 1530:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W291	2443182.17	1977 Feb 7 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W292	2443182.21	1977 Feb 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W293	2443182.21	1977 Feb 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W294	2443182.26	1977 Feb 7 1814:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W295	2443182.30	1977 Feb 7 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W296	2443182.38	1977 Feb 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W297	2443182.40	1977 Feb 7 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W298	2443182.48	1977 Feb 7 2337:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W299	2443183.11	1977 Feb 8 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W300	2443183.13	1977 Feb 8 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W301	2443183.15	1977 Feb 8 1541:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W302	2443183.17	1977 Feb 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W303	2443183.19	1977 Feb 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W304	2443183.21	1977 Feb 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W305	2443183.26	1977 Feb 8 1810:00	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W306	2443183.29	1977 Feb 8 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W307	2443183.42	1977 Feb 8 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W308	2443183.49	1977 Feb 8 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W309	2443183.49	1977 Feb 8 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W310	2443184.09	1977 Feb 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W311	2443184.14	1977 Feb 9 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W312	2443184.17	1977 Feb 9 1559:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W314	2443184.19	1977 Feb 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W315	2443184.21	1977 Feb 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W316	2443184.21	1977 Feb 9 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y55	2443184.27	1977 Feb 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W317	2443184.28	1977 Feb 9 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W318	2443184.30	1977 Feb 9 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y56	2443184.30	1977 Feb 9 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W319	2443184.32	1977 Feb 9 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y57	2443184.38	1977 Feb 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W320	2443184.40	1977 Feb 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W321	2443184.40	1977 Feb 9 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W322	2443184.43	1977 Feb 9 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W323	2443185.17	1977 Feb 10 1558:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W324	2443185.19	1977 Feb 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W325	2443185.21	1977 Feb 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W326	2443185.28	1977 Feb 10 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W327	2443185.29	1977 Feb 10 1859:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W328	2443185.40	1977 Feb 10 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y60	2443185.49	1977 Feb 10 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W329	2443185.56	1977 Feb 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W330	2443186.00	1977 Feb 11 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W331	2443186.10	1977 Feb 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W332	2443186.15	1977 Feb 11 1533:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	SR19,141	-
1977-W333	2443186.16	1977 Feb 11 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W334	2443186.21	1977 Feb 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W335	2443186.29	1977 Feb 11 1859:59	Rocketsonde	-	Winter Strato	0.000	MRN	SS	-	-	Meteo	DSI-5850	SR19,141	-
1977-W336	2443186.32	1977 Feb 11 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W337	2443186.37	1977 Feb 11 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W338	2443186.42	1977 Feb 11 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W339	2443186.50	1977 Feb 12 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y62	2443186.50	1977 Feb 12 0003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W340	2443187.49	1977 Feb 12 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W342	2443188.49	1977 Feb 13 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W343	2443189.07	1977 Feb 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W344	2443189.17	1977 Feb 14 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W345	2443189.19	1977 Feb 14 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W346	2443189.19	1977 Feb 14 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W347	2443189.25	1977 Feb 14 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W348	2443189.27	1977 Feb 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W349	2443189.27	1977 Feb 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W350	2443189.35	1977 Feb 14 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W351	2443189.41	1977 Feb 14 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W352	2443189.55	1977 Feb 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W353	2443190.29	1977 Feb 15 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W354	2443190.29	1977 Feb 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W355	2443190.52	1977 Feb 16 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W356	2443191.07	1977 Feb 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W357	2443191.12	1977 Feb 16 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W358	2443191.14	1977 Feb 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W360	2443191.19	1977 Feb 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W361	2443191.23	1977 Feb 16 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W365	2443191.27	1977 Feb 16 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W368	2443191.40	1977 Feb 16 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W369	2443191.50	1977 Feb 17 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W370	2443192.26	1977 Feb 17 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W371	2443192.33	1977 Feb 17 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W372	2443192.40	1977 Feb 17 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W373	2443192.41	1977 Feb 17 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W374	2443192.50	1977 Feb 17 2353:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W375	2443193.14	1977 Feb 18 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W376	2443193.15	1977 Feb 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A11	2443193.15	1977 Feb 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W377	2443193.19	1977 Feb 18 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W378	2443193.27	1977 Feb 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y71	2443193.27	1977 Feb 18 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W379	2443193.31	1977 Feb 18 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W380	2443196.11	1977 Feb 21 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W381	2443196.20	1977 Feb 21 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W382	2443197.03	1977 Feb 22 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W383	2443197.17	1977 Feb 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W384	2443197.18	1977 Feb 22 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W385	2443197.26	1977 Feb 22 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W386	2443197.31	1977 Feb 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W388	2443197.40	1977 Feb 22 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W389	2443198.07	1977 Feb 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W390	2443198.11	1977 Feb 23 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W391	2443198.12	1977 Feb 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W392	2443198.15	1977 Feb 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W394	2443198.21	1977 Feb 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W395	2443198.24	1977 Feb 23 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W396	2443198.27	1977 Feb 23 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W397	2443198.33	1977 Feb 23 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y76	2443198.38	1977 Feb 23 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W398	2443198.40	1977 Feb 23 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W399	2443198.43	1977 Feb 23 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W401	2443198.59	1977 Feb 24 0206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W403	2443199.18	1977 Feb 24 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W404	2443199.20	1977 Feb 24 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W405	2443199.35	1977 Feb 24 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W406	2443199.42	1977 Feb 24 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y78	2443199.49	1977 Feb 24 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W407	2443200.01	1977 Feb 25 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W408	2443200.07	1977 Feb 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A12	2443200.12	1977 Feb 25 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W409	2443200.14	1977 Feb 25 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W410	2443200.27	1977 Feb 25 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W411	2443200.27	1977 Feb 25 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W412	2443200.28	1977 Feb 25 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W413	2443200.35	1977 Feb 25 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W425	2443203.10	1977 Feb 28 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W426	2443203.11	1977 Feb 28 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W427	2443203.19	1977 Feb 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W428	2443203.21	1977 Feb 28 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W429	2443203.27	1977 Feb 28 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W430	2443203.28	1977 Feb 28 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W431	2443203.47	1977 Feb 28 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W432	2443203.48	1977 Feb 28 2337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W433	2443204.19	1977 Mar 1 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W436	2443205.01	1977 Mar 2 1215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W437	2443205.07	1977 Mar 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W438	2443205.08	1977 Mar 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W439	2443205.11	1977 Mar 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W440	2443205.14	1977 Mar 2 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W441	2443205.19	1977 Mar 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y85	2443205.25	1977 Mar 2 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W442	2443205.26	1977 Mar 2 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W443	2443205.27	1977 Mar 2 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W444	2443205.30	1977 Mar 2 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W445	2443205.34	1977 Mar 2 2011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y86	2443205.35	1977 Mar 2 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W446	2443205.36	1977 Mar 2 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W447	2443205.39	1977 Mar 2 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W448	2443205.41	1977 Mar 2 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W449	2443205.44	1977 Mar 2 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W450	2443205.47	1977 Mar 2 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W451	2443206.15	1977 Mar 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W452	2443206.50	1977 Mar 3 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W455	2443207.02	1977 Mar 4 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W456	2443207.10	1977 Mar 4 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y89	2443207.14	1977 Mar 4 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W457	2443207.18	1977 Mar 4 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W458	2443207.19	1977 Mar 4 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W459	2443207.23	1977 Mar 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W460	2443207.28	1977 Mar 4 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W461	2443207.32	1977 Mar 4 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W463	2443210.02	1977 Mar 7 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W464	2443210.09	1977 Mar 7 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W465	2443210.09	1977 Mar 7 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W466	2443210.18	1977 Mar 7 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W467	2443210.19	1977 Mar 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W468	2443210.25	1977 Mar 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W469	2443210.31	1977 Mar 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W470	2443210.32	1977 Mar 7 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W471	2443210.50	1977 Mar 8 0003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W474	2443211.25	1977 Mar 8 1804:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W477	2443212.02	1977 Mar 9 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W478	2443212.05	1977 Mar 9 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W479	2443212.16	1977 Mar 9 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W480	2443212.19	1977 Mar 9 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W481	2443212.22	1977 Mar 9 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W482	2443212.22	1977 Mar 9 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y95	2443212.25	1977 Mar 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W483	2443212.26	1977 Mar 9 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W484	2443212.31	1977 Mar 9 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W485	2443212.32	1977 Mar 9 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W486	2443212.55	1977 Mar 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W487	2443212.75	1977 Mar 10 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W488	2443213.50	1977 Mar 10 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W490	2443214.01	1977 Mar 11 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W491	2443214.13	1977 Mar 11 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W492	2443214.17	1977 Mar 11 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W494	2443214.18	1977 Mar 11 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W495	2443214.19	1977 Mar 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W496	2443214.20	1977 Mar 11 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W497	2443214.21	1977 Mar 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W498	2443214.25	1977 Mar 11 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W499	2443214.36	1977 Mar 11 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W501	2443217.07	1977 Mar 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W502	2443217.13	1977 Mar 14 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W503	2443217.14	1977 Mar 14 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W505	2443217.20	1977 Mar 14 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A15	2443217.20	1977 Mar 14 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W506	2443217.27	1977 Mar 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W507	2443217.30	1977 Mar 14 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W508	2443217.35	1977 Mar 14 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W509	2443218.21	1977 Mar 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W511	2443218.50	1977 Mar 16 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W512	2443219.00	1977 Mar 16 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W513	2443219.11	1977 Mar 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W514	2443219.12	1977 Mar 16 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W516	2443219.14	1977 Mar 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W517	2443219.15	1977 Mar 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W519	2443219.19	1977 Mar 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W521	2443219.21	1977 Mar 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y105	2443219.27	1977 Mar 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W523	2443219.28	1977 Mar 16 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W524	2443219.47	1977 Mar 16 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y106	2443219.55	1977 Mar 17 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W527	2443220.14	1977 Mar 17 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W528	2443220.26	1977 Mar 17 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W529	2443220.50	1977 Mar 17 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W532	2443221.02	1977 Mar 18 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W533	2443221.11	1977 Mar 18 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W534	2443221.14	1977 Mar 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W535	2443221.16	1977 Mar 18 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W536	2443221.17	1977 Mar 18 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W537	2443221.19	1977 Mar 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y112	2443221.27	1977 Mar 18 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W538	2443221.30	1977 Mar 18 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W539	2443221.36	1977 Mar 18 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W541	2443224.09	1977 Mar 21 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W542	2443224.12	1977 Mar 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W543	2443224.19	1977 Mar 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A16	2443224.27	1977 Mar 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W544	2443224.31	1977 Mar 21 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W545	2443225.03	1977 Mar 22 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W547	2443225.19	1977 Mar 22 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W548	2443225.30	1977 Mar 22 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W549	2443225.51	1977 Mar 23 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W552	2443226.01	1977 Mar 23 1211:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W554	2443226.13	1977 Mar 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W555	2443226.15	1977 Mar 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W556	2443226.15	1977 Mar 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W557	2443226.19	1977 Mar 23 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W558	2443226.19	1977 Mar 23 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y123	2443226.20	1977 Mar 23 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y124	2443226.24	1977 Mar 23 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W559	2443226.25	1977 Mar 23 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y125	2443226.31	1977 Mar 23 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W560	2443226.32	1977 Mar 23 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W561	2443226.32	1977 Mar 23 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W562	2443226.38	1977 Mar 23 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W563	2443227.13	1977 Mar 24 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W564	2443227.20	1977 Mar 24 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y126	2443227.28	1977 Mar 24 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W566	2443227.58	1977 Mar 25 0200:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W567	2443227.62	1977 Mar 25 0300:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W569	2443228.02	1977 Mar 25 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W570	2443228.10	1977 Mar 25 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W571	2443228.14	1977 Mar 25 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W572	2443228.17	1977 Mar 25 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W574	2443228.25	1977 Mar 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W575	2443228.48	1977 Mar 25 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W576	2443228.55	1977 Mar 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W577	2443231.05	1977 Mar 28 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W578	2443231.10	1977 Mar 28 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W579	2443231.10	1977 Mar 28 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W581	2443231.17	1977 Mar 28 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W582	2443231.22	1977 Mar 28 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W583	2443231.23	1977 Mar 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W584	2443231.25	1977 Mar 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W585	2443231.29	1977 Mar 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W586	2443231.31	1977 Mar 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W587	2443232.14	1977 Mar 29 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W588	2443232.19	1977 Mar 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W589	2443232.21	1977 Mar 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W590	2443232.50	1977 Mar 29 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W592	2443233.02	1977 Mar 30 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W593	2443233.09	1977 Mar 30 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W594	2443233.11	1977 Mar 30 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W595	2443233.15	1977 Mar 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y137	2443233.19	1977 Mar 30 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W597	2443233.21	1977 Mar 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W598	2443233.26	1977 Mar 30 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W599	2443233.28	1977 Mar 30 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W600	2443233.33	1977 Mar 30 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W601	2443233.35	1977 Mar 30 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y138	2443233.50	1977 Mar 30 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W604	2443234.20	1977 Mar 31 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W605	2443234.23	1977 Mar 31 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W606	2443235.07	1977 Apr 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W608	2443235.12	1977 Apr 1 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W609	2443235.15	1977 Apr 1 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W610	2443235.16	1977 Apr 1 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W611	2443235.17	1977 Apr 1 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W613	2443235.25	1977 Apr 1 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y140	2443235.29	1977 Apr 1 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W614	2443235.30	1977 Apr 1 1917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W615	2443235.35	1977 Apr 1 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y141	2443235.40	1977 Apr 1 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W616	2443235.42	1977 Apr 1 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W617	2443235.55	1977 Apr 2 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W620	2443238.01	1977 Apr 4 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W621	2443238.10	1977 Apr 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W622	2443238.11	1977 Apr 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W623	2443238.12	1977 Apr 4 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W624	2443238.19	1977 Apr 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W625	2443238.21	1977 Apr 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W626	2443238.25	1977 Apr 4 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W627	2443238.29	1977 Apr 4 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W628	2443238.33	1977 Apr 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W629	2443239.49	1977 Apr 5 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W630	2443240.01	1977 Apr 6 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W631	2443240.12	1977 Apr 6 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W632	2443240.12	1977 Apr 6 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y148	2443240.14	1977 Apr 6 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W633	2443240.18	1977 Apr 6 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W634	2443240.18	1977 Apr 6 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W635	2443240.19	1977 Apr 6 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W636	2443240.23	1977 Apr 6 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W637	2443240.23	1977 Apr 6 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y149	2443240.34	1977 Apr 6 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W638	2443240.35	1977 Apr 6 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W639	2443240.39	1977 Apr 6 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W640	2443240.42	1977 Apr 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W641	2443241.21	1977 Apr 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W642	2443241.40	1977 Apr 7 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W643	2443242.09	1977 Apr 8 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W644	2443242.11	1977 Apr 8 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W645	2443242.14	1977 Apr 8 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W646	2443242.18	1977 Apr 8 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W647	2443242.26	1977 Apr 8 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y151	2443242.27	1977 Apr 8 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W648	2443242.39	1977 Apr 8 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W649	2443245.00	1977 Apr 11 1204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W650	2443245.11	1977 Apr 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W651	2443245.17	1977 Apr 11 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W652	2443245.20	1977 Apr 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W653	2443245.26	1977 Apr 11 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W654	2443245.28	1977 Apr 11 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W655	2443246.23	1977 Apr 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W656	2443246.50	1977 Apr 12 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W658	2443247.02	1977 Apr 13 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W659	2443247.12	1977 Apr 13 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y156	2443247.12	1977 Apr 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W660	2443247.15	1977 Apr 13 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W662	2443247.17	1977 Apr 13 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W663	2443247.19	1977 Apr 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W664	2443247.21	1977 Apr 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W665	2443247.23	1977 Apr 13 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y157	2443247.25	1977 Apr 13 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W666	2443247.25	1977 Apr 13 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y158	2443247.31	1977 Apr 13 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W667	2443247.33	1977 Apr 13 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W668	2443247.34	1977 Apr 13 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W669	2443247.36	1977 Apr 13 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W670	2443247.52	1977 Apr 14 0032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W673	2443248.03	1977 Apr 14 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W674	2443248.14	1977 Apr 14 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A20	2443248.54	1977 Apr 15 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W675	2443249.12	1977 Apr 15 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W676	2443249.17	1977 Apr 15 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W677	2443249.18	1977 Apr 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W678	2443249.18	1977 Apr 15 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W680	2443249.19	1977 Apr 15 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W681	2443249.38	1977 Apr 15 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W682	2443249.40	1977 Apr 15 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W683	2443252.00	1977 Apr 18 1206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W684	2443252.12	1977 Apr 18 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W685	2443252.18	1977 Apr 18 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W686	2443252.21	1977 Apr 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W687	2443252.23	1977 Apr 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W688	2443252.25	1977 Apr 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W689	2443252.32	1977 Apr 18 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W690	2443252.46	1977 Apr 18 2308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W692	2443253.42	1977 Apr 19 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W694	2443254.02	1977 Apr 20 1225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W695	2443254.07	1977 Apr 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W697	2443254.15	1977 Apr 20 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W698	2443254.16	1977 Apr 20 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W701	2443254.23	1977 Apr 20 1730:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y164	2443254.23	1977 Apr 20 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W703	2443254.25	1977 Apr 20 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y165	2443254.26	1977 Apr 20 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W704	2443254.27	1977 Apr 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W705	2443254.32	1977 Apr 20 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W707	2443254.56	1977 Apr 21 0123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W709	2443255.15	1977 Apr 21 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W710	2443256.02	1977 Apr 22 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W712	2443256.12	1977 Apr 22 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W713	2443256.14	1977 Apr 22 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W715	2443256.18	1977 Apr 22 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W716	2443256.19	1977 Apr 22 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y167	2443256.23	1977 Apr 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W717	2443256.26	1977 Apr 22 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W718	2443256.40	1977 Apr 22 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W719	2443256.55	1977 Apr 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W721	2443259.01	1977 Apr 25 1211:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W722	2443259.13	1977 Apr 25 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W724	2443259.25	1977 Apr 25 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W725	2443259.26	1977 Apr 25 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W726	2443259.27	1977 Apr 25 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W727	2443259.34	1977 Apr 25 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W729	2443260.15	1977 Apr 26 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W730	2443260.19	1977 Apr 26 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W731	2443260.21	1977 Apr 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W732	2443260.38	1977 Apr 26 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W733	2443261.02	1977 Apr 27 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W734	2443261.10	1977 Apr 27 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W735	2443261.14	1977 Apr 27 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W736	2443261.16	1977 Apr 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W738	2443261.19	1977 Apr 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W739	2443261.21	1977 Apr 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y172	2443261.25	1977 Apr 27 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W740	2443261.26	1977 Apr 27 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W741	2443261.36	1977 Apr 27 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y173	2443261.39	1977 Apr 27 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W742	2443261.40	1977 Apr 27 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W743	2443261.47	1977 Apr 27 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W744	2443262.40	1977 Apr 28 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W746	2443263.07	1977 Apr 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W748	2443263.12	1977 Apr 29 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W749	2443263.16	1977 Apr 29 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W750	2443263.16	1977 Apr 29 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W751	2443263.19	1977 Apr 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W752	2443263.25	1977 Apr 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W753	2443263.33	1977 Apr 29 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W754	2443263.33	1977 Apr 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W755	2443263.44	1977 Apr 29 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W759	2443266.08	1977 May 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W760	2443266.15	1977 May 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W761	2443266.18	1977 May 2 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W762	2443266.18	1977 May 2 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W764	2443266.21	1977 May 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W765	2443266.25	1977 May 2 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W766	2443266.27	1977 May 2 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W767	2443266.33	1977 May 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W768	2443266.38	1977 May 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W769	2443266.58	1977 May 3 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W771	2443267.05	1977 May 3 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W772	2443267.27	1977 May 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A22	2443268.07	1977 May 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W774	2443268.08	1977 May 4 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W775	2443268.11	1977 May 4 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W776	2443268.12	1977 May 4 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y178	2443268.15	1977 May 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W777	2443268.15	1977 May 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W778	2443268.17	1977 May 4 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W780	2443268.19	1977 May 4 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W781	2443268.22	1977 May 4 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W782	2443268.29	1977 May 4 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W783	2443268.37	1977 May 4 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W784	2443268.50	1977 May 5 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W785	2443268.56	1977 May 5 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W786	2443269.14	1977 May 5 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W787	2443269.25	1977 May 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W789	2443270.07	1977 May 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W790	2443270.12	1977 May 6 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W791	2443270.12	1977 May 6 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W792	2443270.14	1977 May 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W793	2443270.17	1977 May 6 1559:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W794	2443270.18	1977 May 6 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W796	2443270.19	1977 May 6 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W797	2443270.30	1977 May 6 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W798	2443270.35	1977 May 6 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W799	2443270.38	1977 May 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W800	2443270.38	1977 May 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W801	2443270.55	1977 May 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A23	2443273.01	1977 May 9 1218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W802	2443273.12	1977 May 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W803	2443273.14	1977 May 9 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W805	2443273.20	1977 May 9 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W806	2443273.22	1977 May 9 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W807	2443273.28	1977 May 9 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W808	2443273.33	1977 May 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W809	2443273.38	1977 May 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W810	2443274.25	1977 May 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W811	2443274.44	1977 May 10 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W813	2443275.10	1977 May 11 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W814	2443275.11	1977 May 11 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W815	2443275.13	1977 May 11 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W816	2443275.14	1977 May 11 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y185	2443275.14	1977 May 11 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y186	2443275.14	1977 May 11 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W817	2443275.18	1977 May 11 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W818	2443275.18	1977 May 11 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W819	2443275.20	1977 May 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W820	2443275.20	1977 May 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y187	2443275.26	1977 May 11 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W821	2443275.27	1977 May 11 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W822	2443275.36	1977 May 11 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W823	2443276.19	1977 May 12 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A25	2443276.50	1977 May 13 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A26	2443277.07	1977 May 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W824	2443277.11	1977 May 13 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W825	2443277.13	1977 May 13 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W826	2443277.14	1977 May 13 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W827	2443277.18	1977 May 13 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W829	2443277.19	1977 May 13 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W830	2443277.29	1977 May 13 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W831	2443277.34	1977 May 13 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W832	2443277.49	1977 May 13 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A27	2443277.50	1977 May 14 0001:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A28	2443280.14	1977 May 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W833	2443280.16	1977 May 16 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W834	2443280.17	1977 May 16 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W836	2443280.23	1977 May 16 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W837	2443280.24	1977 May 16 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W838	2443280.27	1977 May 16 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W839	2443280.38	1977 May 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W840	2443280.39	1977 May 16 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W841	2443280.49	1977 May 16 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W842	2443281.05	1977 May 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W843	2443281.18	1977 May 17 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W844	2443281.19	1977 May 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W845	2443281.29	1977 May 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W847	2443281.79	1977 May 18 0655:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W848	2443282.07	1977 May 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W849	2443282.07	1977 May 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W850	2443282.08	1977 May 18 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y195	2443282.14	1977 May 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W851	2443282.15	1977 May 18 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W852	2443282.17	1977 May 18 1600:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W853	2443282.18	1977 May 18 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W854	2443282.18	1977 May 18 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W856	2443282.19	1977 May 18 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W858	2443282.21	1977 May 18 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y196	2443282.25	1977 May 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W859	2443282.26	1977 May 18 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y197	2443282.28	1977 May 18 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W861	2443282.29	1977 May 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W862	2443282.31	1977 May 18 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W863	2443282.38	1977 May 18 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W864	2443284.10	1977 May 20 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W865	2443284.11	1977 May 20 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W866	2443284.11	1977 May 20 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W867	2443284.13	1977 May 20 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W868	2443284.18	1977 May 20 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W869	2443284.19	1977 May 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W870	2443284.25	1977 May 20 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W871	2443284.26	1977 May 20 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y200	2443284.38	1977 May 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W872	2443284.38	1977 May 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W873	2443284.39	1977 May 20 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W874	2443284.53	1977 May 21 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W875	2443284.54	1977 May 21 0058:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W876	2443287.02	1977 May 23 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W877	2443287.23	1977 May 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W878	2443287.25	1977 May 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W879	2443287.30	1977 May 23 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W880	2443287.35	1977 May 23 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W881	2443287.46	1977 May 23 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W882	2443288.13	1977 May 24 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W884	2443289.03	1977 May 25 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W885	2443289.07	1977 May 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W886	2443289.10	1977 May 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W888	2443289.12	1977 May 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y206	2443289.15	1977 May 25 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W889	2443289.18	1977 May 25 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W890	2443289.19	1977 May 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y208	2443289.25	1977 May 25 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y209	2443289.26	1977 May 25 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W891	2443289.29	1977 May 25 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W892	2443289.34	1977 May 25 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y210	2443289.38	1977 May 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W893	2443289.40	1977 May 25 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W894	2443289.51	1977 May 26 0018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W895	2443290.14	1977 May 26 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W896	2443290.38	1977 May 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W897	2443291.07	1977 May 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W900	2443291.12	1977 May 27 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W902	2443291.12	1977 May 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W903	2443291.16	1977 May 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W904	2443291.19	1977 May 27 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W906	2443291.24	1977 May 27 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W909	2443291.29	1977 May 27 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W910	2443291.35	1977 May 27 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y213	2443291.38	1977 May 27 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W911	2443291.38	1977 May 27 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W914	2443291.49	1977 May 27 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W915	2443291.53	1977 May 28 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W918	2443291.95	1977 May 28 1041:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W919	2443291.95	1977 May 28 1046:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W920	2443294.13	1977 May 30 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W922	2443294.50	1977 May 31 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W923	2443295.13	1977 May 31 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W924	2443295.16	1977 May 31 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W925	2443295.22	1977 May 31 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W926	2443295.40	1977 May 31 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W927	2443295.42	1977 May 31 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A31	2443296.05	1977 Jun 1 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W929	2443296.07	1977 Jun 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W930	2443296.10	1977 Jun 1 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W931	2443296.13	1977 Jun 1 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W932	2443296.14	1977 Jun 1 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y220	2443296.15	1977 Jun 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W933	2443296.15	1977 Jun 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W934	2443296.19	1977 Jun 1 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y221	2443296.25	1977 Jun 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W936	2443296.25	1977 Jun 1 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W937	2443296.26	1977 Jun 1 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W938	2443296.35	1977 Jun 1 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y222	2443296.42	1977 Jun 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W939	2443296.44	1977 Jun 1 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W940	2443296.50	1977 Jun 2 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W941	2443296.56	1977 Jun 2 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W943	2443297.19	1977 Jun 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W944	2443297.38	1977 Jun 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W946	2443298.10	1977 Jun 3 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W947	2443298.12	1977 Jun 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W948	2443298.21	1977 Jun 3 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W949	2443298.25	1977 Jun 3 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W950	2443298.34	1977 Jun 3 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W951	2443298.38	1977 Jun 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W952	2443298.55	1977 Jun 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W954	2443301.04	1977 Jun 6 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W955	2443301.18	1977 Jun 6 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W956	2443301.19	1977 Jun 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W957	2443301.34	1977 Jun 6 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W958	2443301.36	1977 Jun 6 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W959	2443301.55	1977 Jun 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W960	2443302.02	1977 Jun 7 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W963	2443303.07	1977 Jun 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W965	2443303.11	1977 Jun 8 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W966	2443303.17	1977 Jun 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y229	2443303.17	1977 Jun 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W967	2443303.17	1977 Jun 8 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W968	2443303.19	1977 Jun 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W969	2443303.21	1977 Jun 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W971	2443303.26	1977 Jun 8 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W972	2443303.27	1977 Jun 8 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W973	2443303.36	1977 Jun 8 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W974	2443303.50	1977 Jun 9 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W975	2443303.55	1977 Jun 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W976	2443304.00	1977 Jun 9 1202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W977	2443304.19	1977 Jun 9 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W978	2443304.27	1977 Jun 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W979	2443305.10	1977 Jun 10 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W980	2443305.12	1977 Jun 10 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y230	2443305.32	1977 Jun 10 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W981	2443305.35	1977 Jun 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W982	2443305.55	1977 Jun 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W983	2443306.47	1977 Jun 11 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W984	2443307.48	1977 Jun 12 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W985	2443308.07	1977 Jun 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W986	2443308.08	1977 Jun 13 1352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W987	2443308.13	1977 Jun 13 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W988	2443308.15	1977 Jun 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W989	2443308.15	1977 Jun 13 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W990	2443308.17	1977 Jun 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W991	2443308.25	1977 Jun 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A32	2443308.40	1977 Jun 13 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W992	2443308.48	1977 Jun 13 2324:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W993	2443309.05	1977 Jun 14 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W994	2443309.11	1977 Jun 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W995	2443309.13	1977 Jun 14 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W996	2443309.16	1977 Jun 14 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W997	2443309.27	1977 Jun 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W998	2443309.47	1977 Jun 14 2321:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1001	2443310.07	1977 Jun 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1002	2443310.07	1977 Jun 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1003	2443310.11	1977 Jun 15 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1004	2443310.11	1977 Jun 15 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1005	2443310.14	1977 Jun 15 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1006	2443310.15	1977 Jun 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1007	2443310.15	1977 Jun 15 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y235	2443310.17	1977 Jun 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y236	2443310.18	1977 Jun 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1008	2443310.18	1977 Jun 15 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1009	2443310.19	1977 Jun 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1012	2443310.22	1977 Jun 15 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1013	2443310.25	1977 Jun 15 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1014	2443310.32	1977 Jun 15 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1015	2443310.39	1977 Jun 15 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1016	2443310.47	1977 Jun 15 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1017	2443311.04	1977 Jun 16 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1018	2443311.09	1977 Jun 16 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1019	2443311.14	1977 Jun 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1020	2443311.21	1977 Jun 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1021	2443311.38	1977 Jun 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1022	2443311.47	1977 Jun 16 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1023	2443311.50	1977 Jun 17 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1025	2443312.03	1977 Jun 17 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1026	2443312.07	1977 Jun 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1027	2443312.12	1977 Jun 17 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1028	2443312.15	1977 Jun 17 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1029	2443312.26	1977 Jun 17 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1030	2443312.26	1977 Jun 17 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W02	2443512.21	1978 Jan 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W03	2443512.29	1978 Jan 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W04	2443512.38	1978 Jan 3 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W05	2443512.41	1978 Jan 3 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W07	2443513.12	1978 Jan 4 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W08	2443513.15	1978 Jan 4 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W09	2443513.20	1978 Jan 4 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y06	2443513.23	1978 Jan 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W11	2443513.23	1978 Jan 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W12	2443513.24	1978 Jan 4 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y07	2443513.38	1978 Jan 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W13	2443513.39	1978 Jan 4 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W14	2443513.40	1978 Jan 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y08	2443513.55	1978 Jan 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W16	2443514.25	1978 Jan 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W17	2443515.11	1978 Jan 6 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W19	2443515.15	1978 Jan 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W20	2443515.21	1978 Jan 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W21	2443515.27	1978 Jan 6 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W22	2443515.29	1978 Jan 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W23	2443515.44	1978 Jan 6 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W24	2443515.46	1978 Jan 6 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W25	2443518.15	1978 Jan 9 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W26	2443518.20	1978 Jan 9 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W27	2443518.25	1978 Jan 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W28	2443518.42	1978 Jan 9 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W29	2443518.45	1978 Jan 9 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W30	2443518.50	1978 Jan 9 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W31	2443519.17	1978 Jan 10 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W32	2443519.25	1978 Jan 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W33	2443520.13	1978 Jan 11 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W34	2443520.16	1978 Jan 11 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W35	2443520.20	1978 Jan 11 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W36	2443520.21	1978 Jan 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y16	2443520.33	1978 Jan 11 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W37	2443520.34	1978 Jan 11 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W38	2443520.42	1978 Jan 11 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y17	2443520.44	1978 Jan 11 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W39	2443520.46	1978 Jan 11 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W40	2443520.50	1978 Jan 11 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W41	2443521.27	1978 Jan 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W42	2443521.30	1978 Jan 12 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W43	2443521.41	1978 Jan 12 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W44	2443522.21	1978 Jan 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W45	2443522.22	1978 Jan 13 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W46	2443522.34	1978 Jan 13 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W47	2443522.36	1978 Jan 13 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W48	2443522.41	1978 Jan 13 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W49	2443522.56	1978 Jan 14 0122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W50	2443525.09	1978 Jan 16 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W51	2443525.19	1978 Jan 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W52	2443525.33	1978 Jan 16 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W53	2443525.42	1978 Jan 16 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W54	2443525.56	1978 Jan 17 0129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W55	2443526.08	1978 Jan 17 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W56	2443526.19	1978 Jan 17 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W57	2443526.27	1978 Jan 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W58	2443527.16	1978 Jan 18 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W60	2443527.20	1978 Jan 18 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W61	2443527.21	1978 Jan 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W63	2443527.22	1978 Jan 18 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y31	2443527.29	1978 Jan 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W65	2443527.30	1978 Jan 18 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y32	2443527.37	1978 Jan 18 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W66	2443527.38	1978 Jan 18 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W67	2443527.58	1978 Jan 19 0152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W69	2443528.31	1978 Jan 19 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y33	2443528.40	1978 Jan 19 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W70	2443529.11	1978 Jan 20 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W72	2443529.21	1978 Jan 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W73	2443529.21	1978 Jan 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W74	2443529.26	1978 Jan 20 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W75	2443529.35	1978 Jan 20 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W76	2443529.40	1978 Jan 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W77	2443531.07	1978 Jan 22 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W78	2443532.12	1978 Jan 23 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W80	2443532.21	1978 Jan 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W81	2443532.24	1978 Jan 23 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W82	2443532.29	1978 Jan 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W83	2443532.35	1978 Jan 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W84	2443532.37	1978 Jan 23 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W86	2443533.34	1978 Jan 24 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W87	2443533.35	1978 Jan 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W88	2443533.50	1978 Jan 24 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W90	2443534.13	1978 Jan 25 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W91	2443534.15	1978 Jan 25 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y40	2443534.18	1978 Jan 25 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W93	2443534.19	1978 Jan 25 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W94	2443534.20	1978 Jan 25 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W95	2443534.21	1978 Jan 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y41	2443534.26	1978 Jan 25 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W96	2443534.27	1978 Jan 25 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W97	2443534.38	1978 Jan 25 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W98	2443534.42	1978 Jan 25 2207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W99	2443534.55	1978 Jan 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W101	2443535.18	1978 Jan 26 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A02	2443535.25	1978 Jan 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W102	2443536.13	1978 Jan 27 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W103	2443536.20	1978 Jan 27 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A03	2443536.20	1978 Jan 27 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W105	2443536.29	1978 Jan 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W106	2443536.38	1978 Jan 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A04	2443536.38	1978 Jan 27 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y45	2443536.40	1978 Jan 27 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W107	2443539.10	1978 Jan 30 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W108	2443539.17	1978 Jan 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W110	2443539.20	1978 Jan 30 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W111	2443539.20	1978 Jan 30 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W112	2443539.21	1978 Jan 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W113	2443539.43	1978 Jan 30 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y47	2443539.55	1978 Jan 31 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W114	2443539.62	1978 Jan 31 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W115	2443540.07	1978 Jan 31 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W117	2443540.29	1978 Jan 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W119	2443541.15	1978 Feb 1 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W120	2443541.20	1978 Feb 1 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W121	2443541.21	1978 Feb 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W123	2443541.29	1978 Feb 1 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W124	2443541.31	1978 Feb 1 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y53	2443541.34	1978 Feb 1 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W125	2443541.35	1978 Feb 1 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W127	2443542.25	1978 Feb 2 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W129	2443543.13	1978 Feb 3 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W130	2443543.15	1978 Feb 3 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W131	2443543.19	1978 Feb 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W132	2443543.21	1978 Feb 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y56	2443543.35	1978 Feb 3 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W133	2443543.37	1978 Feb 3 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W134	2443543.55	1978 Feb 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W135	2443546.12	1978 Feb 6 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W136	2443546.15	1978 Feb 6 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W138	2443546.17	1978 Feb 6 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W139	2443546.20	1978 Feb 6 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W140	2443546.20	1978 Feb 6 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W141	2443546.30	1978 Feb 6 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W142	2443546.37	1978 Feb 6 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W143	2443547.25	1978 Feb 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W144	2443547.29	1978 Feb 7 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W147	2443548.13	1978 Feb 8 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W148	2443548.15	1978 Feb 8 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y63	2443548.19	1978 Feb 8 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W150	2443548.20	1978 Feb 8 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W151	2443548.20	1978 Feb 8 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W152	2443548.21	1978 Feb 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W153	2443548.21	1978 Feb 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y64	2443548.38	1978 Feb 8 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W154	2443548.40	1978 Feb 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W156	2443549.29	1978 Feb 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W157	2443549.41	1978 Feb 9 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W158	2443549.42	1978 Feb 9 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W160	2443550.14	1978 Feb 10 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W162	2443550.20	1978 Feb 10 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W163	2443550.21	1978 Feb 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W164	2443550.29	1978 Feb 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W165	2443553.13	1978 Feb 13 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W167	2443553.21	1978 Feb 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W168	2443553.33	1978 Feb 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W169	2443553.38	1978 Feb 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W170	2443553.55	1978 Feb 14 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W171	2443554.17	1978 Feb 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W173	2443554.25	1978 Feb 14 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W174	2443554.42	1978 Feb 14 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W177	2443555.13	1978 Feb 15 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W178	2443555.15	1978 Feb 15 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W180	2443555.19	1978 Feb 15 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y71	2443555.21	1978 Feb 15 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W181	2443555.21	1978 Feb 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W183	2443555.23	1978 Feb 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y72	2443555.29	1978 Feb 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W185	2443555.30	1978 Feb 15 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W186	2443555.57	1978 Feb 16 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W187	2443556.15	1978 Feb 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W188	2443556.17	1978 Feb 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W190	2443556.19	1978 Feb 16 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W191	2443556.50	1978 Feb 17 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W194	2443557.14	1978 Feb 17 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W195	2443557.14	1978 Feb 17 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A06	2443557.19	1978 Feb 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W197	2443557.20	1978 Feb 17 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W198	2443557.21	1978 Feb 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W199	2443558.15	1978 Feb 18 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W200	2443558.50	1978 Feb 19 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W201	2443559.14	1978 Feb 19 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W202	2443559.50	1978 Feb 20 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W203	2443560.11	1978 Feb 20 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W204	2443560.16	1978 Feb 20 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W205	2443560.20	1978 Feb 20 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y76	2443560.50	1978 Feb 21 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W206	2443561.07	1978 Feb 21 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W207	2443561.17	1978 Feb 21 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W208	2443561.19	1978 Feb 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W210	2443561.21	1978 Feb 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W211	2443561.23	1978 Feb 21 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W212	2443561.29	1978 Feb 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W213	2443561.37	1978 Feb 21 2048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y78	2443561.50	1978 Feb 22 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W216	2443562.13	1978 Feb 22 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W217	2443562.15	1978 Feb 22 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y83	2443562.17	1978 Feb 22 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W218	2443562.18	1978 Feb 22 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W219	2443562.19	1978 Feb 22 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W220	2443562.20	1978 Feb 22 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W222	2443562.21	1978 Feb 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W223	2443562.24	1978 Feb 22 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W224	2443562.50	1978 Feb 23 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W225	2443563.15	1978 Feb 23 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W226	2443563.21	1978 Feb 23 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W227	2443563.25	1978 Feb 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W228	2443563.38	1978 Feb 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W229	2443563.42	1978 Feb 23 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W230	2443563.50	1978 Feb 24 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W233	2443564.15	1978 Feb 24 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W234	2443564.18	1978 Feb 24 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W235	2443564.19	1978 Feb 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W236	2443564.20	1978 Feb 24 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W237	2443564.21	1978 Feb 24 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y88	2443564.50	1978 Feb 25 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W238	2443565.15	1978 Feb 25 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W239	2443565.56	1978 Feb 26 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W240	2443566.15	1978 Feb 26 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y89	2443566.50	1978 Feb 27 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W242	2443567.18	1978 Feb 27 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W243	2443567.21	1978 Feb 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W244	2443567.27	1978 Feb 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W245	2443567.31	1978 Feb 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W246	2443567.42	1978 Feb 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y91	2443567.55	1978 Feb 28 0113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W257	2443568.15	1978 Feb 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W258	2443568.29	1978 Feb 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W259	2443568.31	1978 Feb 28 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y92	2443568.57	1978 Mar 1 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W261	2443569.13	1978 Mar 1 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W262	2443569.15	1978 Mar 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W263	2443569.20	1978 Mar 1 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W264	2443569.21	1978 Mar 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y98	2443569.29	1978 Mar 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W265	2443569.30	1978 Mar 1 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W267	2443569.58	1978 Mar 2 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W268	2443571.11	1978 Mar 3 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W269	2443571.19	1978 Mar 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W270	2443571.21	1978 Mar 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W271	2443571.29	1978 Mar 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W272	2443571.37	1978 Mar 3 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W273	2443571.55	1978 Mar 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W274	2443574.14	1978 Mar 6 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W275	2443574.19	1978 Mar 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W276	2443574.21	1978 Mar 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W277	2443574.31	1978 Mar 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A09	2443574.53	1978 Mar 7 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y104	2443574.55	1978 Mar 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W278	2443575.54	1978 Mar 8 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W280	2443576.12	1978 Mar 8 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W281	2443576.15	1978 Mar 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W282	2443576.21	1978 Mar 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W283	2443576.21	1978 Mar 8 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W284	2443576.23	1978 Mar 8 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y111	2443576.23	1978 Mar 8 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W285	2443576.24	1978 Mar 8 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W286	2443576.27	1978 Mar 8 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W287	2443576.29	1978 Mar 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W288	2443576.31	1978 Mar 8 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W289	2443576.37	1978 Mar 8 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W290	2443576.40	1978 Mar 8 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W291	2443576.42	1978 Mar 8 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W292	2443576.53	1978 Mar 9 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W294	2443577.38	1978 Mar 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W296	2443578.08	1978 Mar 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W297	2443578.09	1978 Mar 10 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W299	2443578.20	1978 Mar 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W300	2443578.21	1978 Mar 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W301	2443578.31	1978 Mar 10 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W302	2443578.33	1978 Mar 10 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W303	2443578.34	1978 Mar 10 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W304	2443578.55	1978 Mar 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W305	2443581.09	1978 Mar 13 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W306	2443581.10	1978 Mar 13 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W307	2443581.25	1978 Mar 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W308	2443581.29	1978 Mar 13 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A10	2443581.38	1978 Mar 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W309	2443581.42	1978 Mar 13 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W311	2443583.10	1978 Mar 15 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W312	2443583.10	1978 Mar 15 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W313	2443583.15	1978 Mar 15 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y114	2443583.19	1978 Mar 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W314	2443583.19	1978 Mar 15 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W315	2443583.20	1978 Mar 15 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y115	2443583.25	1978 Mar 15 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W317	2443583.27	1978 Mar 15 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y117	2443583.38	1978 Mar 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W318	2443583.40	1978 Mar 15 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W320	2443583.58	1978 Mar 16 0152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y119	2443584.39	1978 Mar 16 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W323	2443585.09	1978 Mar 17 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W324	2443585.21	1978 Mar 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W325	2443585.21	1978 Mar 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W326	2443585.25	1978 Mar 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W329	2443588.10	1978 Mar 20 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W330	2443588.21	1978 Mar 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W331	2443588.21	1978 Mar 20 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W332	2443588.23	1978 Mar 20 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W333	2443588.38	1978 Mar 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W334	2443588.38	1978 Mar 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W338	2443589.40	1978 Mar 21 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W340	2443590.10	1978 Mar 22 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W341	2443590.16	1978 Mar 22 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W343	2443590.21	1978 Mar 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W344	2443590.21	1978 Mar 22 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y125	2443590.25	1978 Mar 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W346	2443590.26	1978 Mar 22 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W348	2443590.36	1978 Mar 22 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y126	2443590.37	1978 Mar 22 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W349	2443590.38	1978 Mar 22 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W350	2443590.40	1978 Mar 22 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W351	2443590.55	1978 Mar 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W352	2443591.37	1978 Mar 23 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W354	2443591.85	1978 Mar 24 0819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W355	2443592.11	1978 Mar 24 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W356	2443592.23	1978 Mar 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W357	2443592.42	1978 Mar 24 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W358	2443592.55	1978 Mar 25 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W363	2443595.18	1978 Mar 27 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W364	2443595.21	1978 Mar 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W365	2443595.23	1978 Mar 27 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A12	2443595.38	1978 Mar 27 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W371	2443597.10	1978 Mar 29 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W372	2443597.15	1978 Mar 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W373	2443597.18	1978 Mar 29 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y134	2443597.24	1978 Mar 29 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W374	2443597.24	1978 Mar 29 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W375	2443597.31	1978 Mar 29 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W378	2443598.03	1978 Mar 30 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W380	2443598.38	1978 Mar 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W385	2443599.12	1978 Mar 31 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W387	2443599.18	1978 Mar 31 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W388	2443599.22	1978 Mar 31 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W389	2443599.35	1978 Mar 31 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A13	2443599.39	1978 Mar 31 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W392	2443602.10	1978 Apr 3 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W393	2443602.19	1978 Apr 3 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W394	2443602.30	1978 Apr 3 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y143	2443604.18	1978 Apr 5 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W395	2443604.18	1978 Apr 5 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W396	2443604.18	1978 Apr 5 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y144	2443604.23	1978 Apr 5 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W397	2443604.24	1978 Apr 5 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W398	2443604.33	1978 Apr 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y146	2443604.35	1978 Apr 5 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W399	2443604.37	1978 Apr 5 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W401	2443605.45	1978 Apr 6 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W402	2443606.17	1978 Apr 7 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W403	2443606.20	1978 Apr 7 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W404	2443606.21	1978 Apr 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W405	2443606.25	1978 Apr 7 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W406	2443606.38	1978 Apr 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W407	2443606.53	1978 Apr 8 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W410	2443609.19	1978 Apr 10 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W411	2443609.21	1978 Apr 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W412	2443609.21	1978 Apr 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W413	2443609.38	1978 Apr 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W414	2443609.40	1978 Apr 10 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W416	2443610.08	1978 Apr 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W419	2443611.15	1978 Apr 12 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W420	2443611.17	1978 Apr 12 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W423	2443611.21	1978 Apr 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W424	2443611.21	1978 Apr 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W425	2443611.26	1978 Apr 12 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y155	2443611.27	1978 Apr 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W426	2443611.28	1978 Apr 12 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W427	2443611.32	1978 Apr 12 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y156	2443611.38	1978 Apr 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W428	2443611.39	1978 Apr 12 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W429	2443611.54	1978 Apr 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W430	2443612.21	1978 Apr 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W431	2443613.13	1978 Apr 14 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W432	2443613.19	1978 Apr 14 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W433	2443613.21	1978 Apr 14 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W434	2443613.21	1978 Apr 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W435	2443613.23	1978 Apr 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W436	2443613.34	1978 Apr 14 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A15	2443613.54	1978 Apr 15 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W438	2443616.11	1978 Apr 17 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W439	2443616.21	1978 Apr 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W440	2443616.25	1978 Apr 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W442	2443616.31	1978 Apr 17 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W443	2443617.21	1978 Apr 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A16	2443617.56	1978 Apr 19 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W445	2443618.08	1978 Apr 19 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W446	2443618.11	1978 Apr 19 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W448	2443618.17	1978 Apr 19 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y160	2443618.26	1978 Apr 19 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y161	2443618.27	1978 Apr 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W449	2443618.28	1978 Apr 19 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y162	2443618.34	1978 Apr 19 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W450	2443618.35	1978 Apr 19 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W451	2443619.21	1978 Apr 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A17	2443619.38	1978 Apr 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W452	2443620.10	1978 Apr 21 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W453	2443620.15	1978 Apr 21 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A18	2443620.39	1978 Apr 21 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W455	2443620.55	1978 Apr 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W456	2443623.09	1978 Apr 24 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W457	2443623.21	1978 Apr 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W458	2443623.37	1978 Apr 24 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W459	2443623.55	1978 Apr 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W460	2443625.15	1978 Apr 26 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y173	2443625.19	1978 Apr 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W462	2443625.20	1978 Apr 26 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W463	2443625.21	1978 Apr 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W464	2443626.25	1978 Apr 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W465	2443626.40	1978 Apr 27 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W466	2443627.14	1978 Apr 28 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W467	2443627.21	1978 Apr 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W470	2443627.37	1978 Apr 28 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W474	2443630.12	1978 May 1 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W476	2443630.21	1978 May 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W477	2443630.24	1978 May 1 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W478	2443630.38	1978 May 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W479	2443631.21	1978 May 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W480	2443631.41	1978 May 2 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W482	2443632.11	1978 May 3 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W483	2443632.12	1978 May 3 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y178	2443632.17	1978 May 3 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W484	2443632.19	1978 May 3 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W485	2443632.25	1978 May 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W486	2443632.26	1978 May 3 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W487	2443632.56	1978 May 4 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W488	2443633.18	1978 May 4 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A20	2443633.33	1978 May 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W490	2443634.11	1978 May 5 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W491	2443634.13	1978 May 5 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W492	2443634.16	1978 May 5 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W493	2443634.21	1978 May 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W494	2443634.41	1978 May 5 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W496	2443637.10	1978 May 8 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W497	2443637.11	1978 May 8 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W498	2443637.23	1978 May 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W499	2443637.25	1978 May 8 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W500	2443637.33	1978 May 8 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W501	2443637.55	1978 May 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W502	2443638.21	1978 May 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W503	2443638.33	1978 May 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W506	2443639.11	1978 May 10 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y182	2443639.24	1978 May 10 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W508	2443639.25	1978 May 10 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y183	2443639.31	1978 May 10 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W509	2443639.33	1978 May 10 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y184	2443639.33	1978 May 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W510	2443639.33	1978 May 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W511	2443639.36	1978 May 10 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W512	2443639.41	1978 May 10 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W513	2443640.29	1978 May 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W514	2443641.11	1978 May 12 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W515	2443641.17	1978 May 12 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W517	2443641.19	1978 May 12 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W518	2443641.24	1978 May 12 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W519	2443641.38	1978 May 12 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W520	2443641.55	1978 May 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W522	2443644.21	1978 May 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W523	2443644.21	1978 May 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W524	2443644.27	1978 May 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y185	2443644.33	1978 May 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W525	2443644.34	1978 May 15 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y186	2443644.37	1978 May 15 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W526	2443644.38	1978 May 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W527	2443644.57	1978 May 16 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W530	2443646.12	1978 May 17 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W531	2443646.13	1978 May 17 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W533	2443646.14	1978 May 17 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W535	2443646.18	1978 May 17 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y189	2443646.18	1978 May 17 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W536	2443646.19	1978 May 17 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y190	2443646.19	1978 May 17 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W537	2443646.21	1978 May 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W539	2443646.21	1978 May 17 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W540	2443646.22	1978 May 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W542	2443646.28	1978 May 17 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W543	2443646.30	1978 May 17 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W545	2443646.32	1978 May 17 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W548	2443646.33	1978 May 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W549	2443646.55	1978 May 18 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W550	2443646.99	1978 May 18 1140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W551	2443647.10	1978 May 18 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W552	2443647.14	1978 May 18 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W553	2443647.15	1978 May 18 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W554	2443647.25	1978 May 18 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W555	2443647.25	1978 May 18 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W556	2443647.33	1978 May 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W557	2443647.43	1978 May 18 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W558	2443648.13	1978 May 19 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W560	2443648.20	1978 May 19 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W561	2443648.23	1978 May 19 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W562	2443648.24	1978 May 19 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W563	2443648.38	1978 May 19 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W564	2443651.09	1978 May 22 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W565	2443651.09	1978 May 22 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W566	2443651.13	1978 May 22 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W567	2443651.13	1978 May 22 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W568	2443651.17	1978 May 22 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W569	2443651.22	1978 May 22 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W570	2443651.30	1978 May 22 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W571	2443651.55	1978 May 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W572	2443652.11	1978 May 23 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W573	2443652.11	1978 May 23 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W574	2443652.17	1978 May 23 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A23	2443652.33	1978 May 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W578	2443653.12	1978 May 24 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W579	2443653.13	1978 May 24 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W580	2443653.14	1978 May 24 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W582	2443653.22	1978 May 24 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W584	2443653.28	1978 May 24 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y197	2443653.29	1978 May 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W585	2443653.30	1978 May 24 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A24	2443653.35	1978 May 24 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W586	2443654.09	1978 May 25 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W587	2443654.09	1978 May 25 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W588	2443654.19	1978 May 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W589	2443655.09	1978 May 26 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W590	2443655.10	1978 May 26 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W592	2443655.11	1978 May 26 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W593	2443655.21	1978 May 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W594	2443655.26	1978 May 26 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W595	2443655.28	1978 May 26 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A25	2443655.33	1978 May 26 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W596	2443655.40	1978 May 26 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W598	2443658.10	1978 May 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W599	2443659.21	1978 May 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W600	2443659.25	1978 May 30 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W601	2443659.25	1978 May 30 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W603	2443660.09	1978 May 31 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W604	2443660.11	1978 May 31 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W605	2443660.11	1978 May 31 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W606	2443660.11	1978 May 31 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y205	2443660.25	1978 May 31 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y206	2443660.26	1978 May 31 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W608	2443660.26	1978 May 31 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W609	2443660.27	1978 May 31 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y207	2443660.33	1978 May 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W610	2443660.35	1978 May 31 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W611	2443661.25	1978 Jun 1 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W612	2443662.10	1978 Jun 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W613	2443662.12	1978 Jun 2 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W614	2443662.12	1978 Jun 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W615	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A26	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W616	2443662.25	1978 Jun 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W617	2443662.55	1978 Jun 3 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W618	2443665.10	1978 Jun 5 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W619	2443665.16	1978 Jun 5 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W620	2443665.17	1978 Jun 5 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W621	2443665.26	1978 Jun 5 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W622	2443665.37	1978 Jun 5 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W625	2443667.11	1978 Jun 7 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W626	2443667.12	1978 Jun 7 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y212	2443667.18	1978 Jun 7 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y213	2443667.19	1978 Jun 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W627	2443667.20	1978 Jun 7 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W628	2443667.20	1978 Jun 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W630	2443667.21	1978 Jun 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W631	2443667.33	1978 Jun 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W632	2443669.13	1978 Jun 9 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W633	2443669.21	1978 Jun 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W634	2443669.25	1978 Jun 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W635	2443669.25	1978 Jun 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W636	2443669.27	1978 Jun 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W637	2443672.19	1978 Jun 12 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W638	2443672.21	1978 Jun 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W639	2443672.24	1978 Jun 12 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W640	2443672.27	1978 Jun 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W641	2443672.39	1978 Jun 12 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W642	2443673.17	1978 Jun 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W645	2443674.13	1978 Jun 14 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W646	2443674.21	1978 Jun 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W648	2443674.22	1978 Jun 14 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y219	2443674.25	1978 Jun 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W650	2443674.25	1978 Jun 14 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W652	2443674.26	1978 Jun 14 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W653	2443674.27	1978 Jun 14 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W654	2443674.27	1978 Jun 14 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W655	2443675.35	1978 Jun 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W656	2443676.08	1978 Jun 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W657	2443676.12	1978 Jun 16 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W658	2443676.16	1978 Jun 16 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W659	2443676.17	1978 Jun 16 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W660	2443676.25	1978 Jun 16 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W661	2443676.50	1978 Jun 17 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W662	2443676.52	1978 Jun 17 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W663	2443679.11	1978 Jun 19 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W664	2443679.21	1978 Jun 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W665	2443679.24	1978 Jun 19 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W666	2443679.27	1978 Jun 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W667	2443679.33	1978 Jun 19 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W668	2443679.35	1978 Jun 19 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W669	2443680.21	1978 Jun 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W670	2443680.33	1978 Jun 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W671	2443681.09	1978 Jun 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W672	2443681.13	1978 Jun 21 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y225	2443681.18	1978 Jun 21 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W675	2443681.19	1978 Jun 21 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W676	2443681.19	1978 Jun 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y227	2443681.25	1978 Jun 21 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W677	2443681.25	1978 Jun 21 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y228	2443681.55	1978 Jun 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W678	2443683.13	1978 Jun 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W679	2443683.15	1978 Jun 23 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W680	2443683.19	1978 Jun 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W681	2443683.21	1978 Jun 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W682	2443683.24	1978 Jun 23 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W683	2443683.37	1978 Jun 23 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W684	2443686.12	1978 Jun 26 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W685	2443686.21	1978 Jun 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W686	2443686.25	1978 Jun 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W687	2443686.26	1978 Jun 26 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A28	2443686.34	1978 Jun 26 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W688	2443687.16	1978 Jun 27 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W689	2443687.42	1978 Jun 27 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W692	2443688.12	1978 Jun 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W693	2443688.13	1978 Jun 28 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W694	2443688.15	1978 Jun 28 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y235	2443688.21	1978 Jun 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W697	2443688.21	1978 Jun 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W698	2443688.22	1978 Jun 28 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y237	2443688.29	1978 Jun 28 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A30	2443688.34	1978 Jun 28 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y238	2443688.38	1978 Jun 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W699	2443688.39	1978 Jun 28 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W700	2443688.39	1978 Jun 28 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W701	2443688.55	1978 Jun 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W703	2443690.13	1978 Jun 30 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W704	2443690.25	1978 Jun 30 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W705	2443690.25	1978 Jun 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W706	2443690.38	1978 Jun 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W707	2443690.59	1978 Jul 1 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W708	2443693.11	1978 Jul 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W709	2443693.25	1978 Jul 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W710	2443693.55	1978 Jul 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W711	2443693.93	1978 Jul 4 1015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W713	2443695.11	1978 Jul 5 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W714	2443695.15	1978 Jul 5 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W715	2443695.15	1978 Jul 5 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W716	2443695.18	1978 Jul 5 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y243	2443695.21	1978 Jul 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W718	2443695.21	1978 Jul 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W719	2443695.22	1978 Jul 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y244	2443695.22	1978 Jul 5 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y245	2443695.33	1978 Jul 5 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W720	2443695.35	1978 Jul 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W721	2443695.39	1978 Jul 5 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W722	2443696.21	1978 Jul 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W723	2443697.09	1978 Jul 7 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W724	2443697.13	1978 Jul 7 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W725	2443697.32	1978 Jul 7 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W726	2443697.56	1978 Jul 8 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W727	2443700.08	1978 Jul 10 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W729	2443700.11	1978 Jul 10 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W730	2443700.25	1978 Jul 10 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W731	2443700.27	1978 Jul 10 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A33	2443700.28	1978 Jul 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W732	2443700.43	1978 Jul 10 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W733	2443702.11	1978 Jul 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W734	2443702.12	1978 Jul 12 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W735	2443702.15	1978 Jul 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W736	2443702.17	1978 Jul 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y254	2443702.18	1978 Jul 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y255	2443702.19	1978 Jul 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W737	2443702.21	1978 Jul 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y256	2443702.22	1978 Jul 12 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y257	2443702.29	1978 Jul 12 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W741	2443702.30	1978 Jul 12 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W742	2443702.55	1978 Jul 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y259	2443703.42	1978 Jul 13 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W743	2443704.14	1978 Jul 14 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W745	2443704.20	1978 Jul 14 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W746	2443704.21	1978 Jul 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W747	2443704.37	1978 Jul 14 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W748	2443707.14	1978 Jul 17 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W749	2443707.19	1978 Jul 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W751	2443707.21	1978 Jul 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W752	2443707.25	1978 Jul 17 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W753	2443708.46	1978 Jul 18 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W754	2443708.75	1978 Jul 19 0555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W755	2443708.96	1978 Jul 19 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W756	2443709.11	1978 Jul 19 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W757	2443709.12	1978 Jul 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y266	2443709.14	1978 Jul 19 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W758	2443709.16	1978 Jul 19 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W761	2443709.23	1978 Jul 19 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y267	2443709.25	1978 Jul 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W762	2443709.26	1978 Jul 19 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W763	2443709.26	1978 Jul 19 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W764	2443709.49	1978 Jul 19 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W765	2443709.75	1978 Jul 20 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W766	2443709.98	1978 Jul 20 1130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W767	2443710.17	1978 Jul 20 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W768	2443710.40	1978 Jul 20 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W769	2443710.58	1978 Jul 21 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W771	2443711.21	1978 Jul 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W772	2443711.42	1978 Jul 21 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W774	2443714.12	1978 Jul 24 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W775	2443714.21	1978 Jul 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W776	2443714.23	1978 Jul 24 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W777	2443714.55	1978 Jul 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W778	2443715.26	1978 Jul 25 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W779	2443715.62	1978 Jul 26 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W780	2443716.08	1978 Jul 26 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W781	2443716.11	1978 Jul 26 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W782	2443716.13	1978 Jul 26 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y272	2443716.20	1978 Jul 26 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W784	2443716.22	1978 Jul 26 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A35	2443716.34	1978 Jul 26 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y273	2443716.35	1978 Jul 26 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W785	2443716.37	1978 Jul 26 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W786	2443716.42	1978 Jul 26 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y274	2443716.44	1978 Jul 26 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W787	2443718.09	1978 Jul 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W791	2443718.20	1978 Jul 28 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W792	2443718.25	1978 Jul 28 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W793	2443718.27	1978 Jul 28 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W794	2443718.55	1978 Jul 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W798	2443721.15	1978 Jul 31 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W799	2443721.21	1978 Jul 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W800	2443721.21	1978 Jul 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W801	2443721.41	1978 Jul 31 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W802	2443723.11	1978 Aug 2 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y279	2443723.18	1978 Aug 2 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y280	2443723.18	1978 Aug 2 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W803	2443723.19	1978 Aug 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W804	2443723.20	1978 Aug 2 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W805	2443723.21	1978 Aug 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y281	2443723.35	1978 Aug 2 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y282	2443723.40	1978 Aug 2 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W807	2443723.43	1978 Aug 2 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W808	2443723.60	1978 Aug 3 0229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W809	2443724.43	1978 Aug 3 2225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W810	2443725.13	1978 Aug 4 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W812	2443725.21	1978 Aug 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W813	2443725.25	1978 Aug 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W814	2443728.15	1978 Aug 7 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W815	2443728.19	1978 Aug 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W816	2443728.21	1978 Aug 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W817	2443728.25	1978 Aug 7 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W818	2443728.38	1978 Aug 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W819	2443729.36	1978 Aug 8 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W820	2443729.41	1978 Aug 8 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W822	2443730.12	1978 Aug 9 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W823	2443730.13	1978 Aug 9 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W824	2443730.21	1978 Aug 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y289	2443730.21	1978 Aug 9 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W825	2443730.23	1978 Aug 9 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y290	2443730.24	1978 Aug 9 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W826	2443730.25	1978 Aug 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W827	2443730.27	1978 Aug 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y292	2443730.42	1978 Aug 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W828	2443730.55	1978 Aug 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W829	2443731.18	1978 Aug 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W831	2443732.12	1978 Aug 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W832	2443732.21	1978 Aug 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W833	2443732.21	1978 Aug 11 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W834	2443732.34	1978 Aug 11 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W835	2443732.40	1978 Aug 11 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W837	2443735.12	1978 Aug 14 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W838	2443735.21	1978 Aug 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W839	2443735.27	1978 Aug 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W840	2443735.38	1978 Aug 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W842	2443735.55	1978 Aug 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W843	2443736.21	1978 Aug 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A36	2443736.33	1978 Aug 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W844	2443737.08	1978 Aug 16 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W846	2443737.10	1978 Aug 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y303	2443737.21	1978 Aug 16 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W851	2443737.27	1978 Aug 16 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W852	2443737.27	1978 Aug 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y305	2443737.33	1978 Aug 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W853	2443737.34	1978 Aug 16 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W854	2443737.35	1978 Aug 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y306	2443737.38	1978 Aug 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W855	2443737.40	1978 Aug 16 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W856	2443739.14	1978 Aug 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W858	2443739.19	1978 Aug 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W859	2443739.20	1978 Aug 18 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W860	2443739.21	1978 Aug 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W861	2443739.34	1978 Aug 18 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A37	2443739.39	1978 Aug 18 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W862	2443739.55	1978 Aug 19 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W863	2443742.09	1978 Aug 21 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W864	2443742.15	1978 Aug 21 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W866	2443742.17	1978 Aug 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A38	2443742.27	1978 Aug 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W867	2443742.27	1978 Aug 21 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W868	2443742.38	1978 Aug 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W869	2443742.55	1978 Aug 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W871	2443744.12	1978 Aug 23 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y315	2443744.19	1978 Aug 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W873	2443744.20	1978 Aug 23 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W874	2443744.23	1978 Aug 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A39	2443744.23	1978 Aug 23 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W876	2443744.26	1978 Aug 23 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W877	2443744.28	1978 Aug 23 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W878	2443744.34	1978 Aug 23 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y317	2443744.36	1978 Aug 23 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W879	2443744.49	1978 Aug 23 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W882	2443745.22	1978 Aug 24 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A40	2443745.34	1978 Aug 24 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W883	2443745.40	1978 Aug 24 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W884	2443746.12	1978 Aug 25 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W886	2443746.21	1978 Aug 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W888	2443746.25	1978 Aug 25 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A41	2443749.16	1978 Aug 28 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W891	2443749.17	1978 Aug 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W892	2443749.18	1978 Aug 28 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W894	2443749.21	1978 Aug 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W895	2443749.25	1978 Aug 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A42	2443749.54	1978 Aug 29 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W896	2443749.55	1978 Aug 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W900	2443751.11	1978 Aug 30 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W901	2443751.13	1978 Aug 30 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W902	2443751.21	1978 Aug 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y326	2443751.29	1978 Aug 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W903	2443751.30	1978 Aug 30 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W904	2443751.32	1978 Aug 30 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W905	2443751.36	1978 Aug 30 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W906	2443751.46	1978 Aug 30 2307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W907	2443752.04	1978 Aug 31 1303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W909	2443752.08	1978 Aug 31 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W911	2443752.25	1978 Aug 31 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W912	2443752.36	1978 Aug 31 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W914	2443753.08	1978 Sep 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W916	2443753.10	1978 Sep 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W917	2443753.16	1978 Sep 1 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W918	2443753.25	1978 Sep 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W919	2443753.26	1978 Sep 1 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W920	2443753.38	1978 Sep 1 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W921	2443753.50	1978 Sep 2 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W922	2443753.56	1978 Sep 2 0125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W923	2443756.13	1978 Sep 4 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A43	2443757.35	1978 Sep 5 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W924	2443757.42	1978 Sep 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W926	2443758.08	1978 Sep 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W927	2443758.12	1978 Sep 6 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W928	2443758.15	1978 Sep 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W929	2443758.19	1978 Sep 6 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y337	2443758.21	1978 Sep 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W930	2443758.22	1978 Sep 6 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y338	2443758.38	1978 Sep 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W931	2443758.41	1978 Sep 6 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W932	2443758.43	1978 Sep 6 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W933	2443758.63	1978 Sep 7 0310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W936	2443760.12	1978 Sep 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W937	2443760.18	1978 Sep 8 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A44	2443760.21	1978 Sep 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W938	2443760.27	1978 Sep 8 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W939	2443760.27	1978 Sep 8 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W940	2443760.55	1978 Sep 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W941	2443763.09	1978 Sep 11 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W943	2443763.26	1978 Sep 11 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W944	2443763.29	1978 Sep 11 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W945	2443763.35	1978 Sep 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W946	2443763.65	1978 Sep 12 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W947	2443764.40	1978 Sep 12 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W951	2443765.13	1978 Sep 13 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W952	2443765.15	1978 Sep 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W953	2443765.15	1978 Sep 13 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W954	2443765.21	1978 Sep 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y344	2443765.24	1978 Sep 13 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W955	2443765.25	1978 Sep 13 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y345	2443765.40	1978 Sep 13 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W956	2443765.42	1978 Sep 13 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W957	2443765.49	1978 Sep 13 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W958	2443766.41	1978 Sep 14 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W961	2443767.16	1978 Sep 15 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W962	2443767.21	1978 Sep 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W963	2443767.28	1978 Sep 15 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y348	2443767.39	1978 Sep 15 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W964	2443770.17	1978 Sep 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W965	2443770.19	1978 Sep 18 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W967	2443770.21	1978 Sep 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W968	2443770.25	1978 Sep 18 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A48	2443770.35	1978 Sep 18 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W969	2443770.56	1978 Sep 19 0125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W970	2443771.17	1978 Sep 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W973	2443772.10	1978 Sep 20 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W974	2443772.15	1978 Sep 20 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W975	2443772.16	1978 Sep 20 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y351	2443772.16	1978 Sep 20 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W977	2443772.21	1978 Sep 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W979	2443772.23	1978 Sep 20 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W981	2443772.27	1978 Sep 20 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y353	2443772.28	1978 Sep 20 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W982	2443772.29	1978 Sep 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W984	2443772.35	1978 Sep 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W985	2443772.39	1978 Sep 20 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y354	2443772.40	1978 Sep 20 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W986	2443772.41	1978 Sep 20 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W988	2443774.08	1978 Sep 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W990	2443774.12	1978 Sep 22 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W991	2443774.14	1978 Sep 22 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y356	2443774.16	1978 Sep 22 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W992	2443774.19	1978 Sep 22 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W993	2443774.35	1978 Sep 22 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W994	2443774.40	1978 Sep 22 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W27	2443877.06	1979 Jan 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W28	2443877.06	1979 Jan 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W29	2443877.12	1979 Jan 3 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y04	2443877.16	1979 Jan 3 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W30	2443877.18	1979 Jan 3 1612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W31	2443877.31	1979 Jan 3 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y06	2443877.32	1979 Jan 3 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W32	2443877.33	1979 Jan 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W33	2443878.41	1979 Jan 4 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W34	2443879.05	1979 Jan 5 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W35	2443879.07	1979 Jan 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A01	2443879.11	1979 Jan 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W36	2443879.12	1979 Jan 5 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y08	2443879.16	1979 Jan 5 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W37	2443879.19	1979 Jan 5 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W38	2443879.29	1979 Jan 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W40	2443881.19	1979 Jan 7 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W43	2443882.09	1979 Jan 8 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W44	2443882.11	1979 Jan 8 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W45	2443882.12	1979 Jan 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W46	2443882.20	1979 Jan 8 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W47	2443882.21	1979 Jan 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W49	2443882.35	1979 Jan 8 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W50	2443882.55	1979 Jan 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W51	2443882.75	1979 Jan 9 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W52	2443883.15	1979 Jan 9 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W55	2443883.29	1979 Jan 9 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W56	2443883.33	1979 Jan 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W57	2443884.11	1979 Jan 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W58	2443884.12	1979 Jan 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y13	2443884.13	1979 Jan 10 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W59	2443884.15	1979 Jan 10 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W60	2443884.16	1979 Jan 10 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W61	2443884.20	1979 Jan 10 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W62	2443884.22	1979 Jan 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y15	2443884.29	1979 Jan 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W64	2443884.30	1979 Jan 10 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y16	2443884.37	1979 Jan 10 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W65	2443884.38	1979 Jan 10 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W66	2443884.39	1979 Jan 10 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W67	2443884.46	1979 Jan 10 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W70	2443885.30	1979 Jan 11 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W71	2443885.32	1979 Jan 11 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W72	2443885.57	1979 Jan 12 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W73	2443886.06	1979 Jan 12 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W74	2443886.07	1979 Jan 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W75	2443886.15	1979 Jan 12 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W76	2443886.23	1979 Jan 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W77	2443886.29	1979 Jan 12 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W78	2443886.29	1979 Jan 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W80	2443889.06	1979 Jan 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W81	2443889.10	1979 Jan 15 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W82	2443889.11	1979 Jan 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W83	2443889.20	1979 Jan 15 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W85	2443889.40	1979 Jan 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W87	2443890.38	1979 Jan 16 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W88	2443890.41	1979 Jan 16 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W89	2443891.04	1979 Jan 17 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W90	2443891.07	1979 Jan 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W91	2443891.10	1979 Jan 17 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W92	2443891.11	1979 Jan 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y28	2443891.19	1979 Jan 17 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W94	2443891.20	1979 Jan 17 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W95	2443891.20	1979 Jan 17 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W96	2443891.27	1979 Jan 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y29	2443891.31	1979 Jan 17 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W98	2443891.32	1979 Jan 17 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y30	2443891.33	1979 Jan 17 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W99	2443891.34	1979 Jan 17 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y31	2443891.38	1979 Jan 17 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W100	2443891.40	1979 Jan 17 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W101	2443891.57	1979 Jan 18 0142:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W102	2443892.22	1979 Jan 18 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W104	2443892.75	1979 Jan 19 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W105	2443893.11	1979 Jan 19 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W106	2443893.11	1979 Jan 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W107	2443893.12	1979 Jan 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W109	2443893.20	1979 Jan 19 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W110	2443893.31	1979 Jan 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W111	2443893.37	1979 Jan 19 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W112	2443893.41	1979 Jan 19 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W113	2443893.67	1979 Jan 20 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W114	2443893.71	1979 Jan 20 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W115	2443893.75	1979 Jan 20 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W116	2443893.79	1979 Jan 20 0702:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W117	2443893.90	1979 Jan 20 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y39	2443896.07	1979 Jan 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W118	2443896.12	1979 Jan 22 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W119	2443896.12	1979 Jan 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W120	2443896.19	1979 Jan 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W121	2443896.20	1979 Jan 22 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W122	2443896.23	1979 Jan 22 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W124	2443897.20	1979 Jan 23 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W125	2443897.22	1979 Jan 23 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W126	2443897.26	1979 Jan 23 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W127	2443897.27	1979 Jan 23 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W128	2443897.28	1979 Jan 23 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W129	2443897.72	1979 Jan 24 0520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W130	2443897.75	1979 Jan 24 0556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W131	2443897.88	1979 Jan 24 0902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W132	2443898.06	1979 Jan 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W133	2443898.08	1979 Jan 24 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W134	2443898.09	1979 Jan 24 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W135	2443898.11	1979 Jan 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W136	2443898.20	1979 Jan 24 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y48	2443898.29	1979 Jan 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W137	2443898.30	1979 Jan 24 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W138	2443898.31	1979 Jan 24 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W139	2443898.46	1979 Jan 24 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W140	2443899.13	1979 Jan 25 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W141	2443899.18	1979 Jan 25 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W142	2443899.27	1979 Jan 25 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y50	2443899.36	1979 Jan 25 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W143	2443899.38	1979 Jan 25 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W145	2443900.06	1979 Jan 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W146	2443900.07	1979 Jan 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W147	2443900.11	1979 Jan 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W148	2443900.11	1979 Jan 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W149	2443900.23	1979 Jan 26 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W150	2443900.25	1979 Jan 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W151	2443900.39	1979 Jan 26 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W155	2443903.08	1979 Jan 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W156	2443903.10	1979 Jan 29 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W157	2443903.15	1979 Jan 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W158	2443903.21	1979 Jan 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W159	2443903.21	1979 Jan 29 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W161	2443903.39	1979 Jan 29 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W162	2443903.55	1979 Jan 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W163	2443904.29	1979 Jan 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W168	2443905.08	1979 Jan 31 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W169	2443905.11	1979 Jan 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W170	2443905.12	1979 Jan 31 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y67	2443905.13	1979 Jan 31 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W171	2443905.15	1979 Jan 31 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W172	2443905.15	1979 Jan 31 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y68	2443905.20	1979 Jan 31 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W174	2443905.20	1979 Jan 31 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W175	2443905.21	1979 Jan 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W176	2443905.22	1979 Jan 31 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W177	2443905.28	1979 Jan 31 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y69	2443905.37	1979 Jan 31 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W178	2443905.39	1979 Jan 31 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W179	2443905.49	1979 Jan 31 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W181	2443906.29	1979 Feb 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W182	2443906.42	1979 Feb 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W184	2443907.05	1979 Feb 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W185	2443907.08	1979 Feb 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W186	2443907.12	1979 Feb 2 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W187	2443907.20	1979 Feb 2 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W189	2443907.36	1979 Feb 2 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W190	2443910.06	1979 Feb 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W191	2443910.08	1979 Feb 5 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W192	2443910.11	1979 Feb 5 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W193	2443910.21	1979 Feb 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W194	2443910.21	1979 Feb 5 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W195	2443910.25	1979 Feb 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W196	2443910.39	1979 Feb 5 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A07	2443910.48	1979 Feb 5 2326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W197	2443910.55	1979 Feb 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W198	2443911.29	1979 Feb 6 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W199	2443911.29	1979 Feb 6 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W203	2443912.06	1979 Feb 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W204	2443912.11	1979 Feb 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W205	2443912.12	1979 Feb 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W206	2443912.13	1979 Feb 7 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y85	2443912.16	1979 Feb 7 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W208	2443912.21	1979 Feb 7 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W209	2443912.25	1979 Feb 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y86	2443912.30	1979 Feb 7 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W211	2443912.31	1979 Feb 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W212	2443912.31	1979 Feb 7 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W213	2443912.42	1979 Feb 7 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W214	2443912.45	1979 Feb 7 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W215	2443912.47	1979 Feb 7 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W217	2443913.29	1979 Feb 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W218	2443913.56	1979 Feb 9 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W220	2443914.06	1979 Feb 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W221	2443914.16	1979 Feb 9 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W222	2443914.21	1979 Feb 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W223	2443914.21	1979 Feb 9 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W224	2443914.24	1979 Feb 9 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A09	2443914.29	1979 Feb 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W226	2443914.45	1979 Feb 9 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W227	2443914.66	1979 Feb 10 0345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W228	2443917.07	1979 Feb 12 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W229	2443917.20	1979 Feb 12 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W230	2443917.22	1979 Feb 12 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W231	2443917.25	1979 Feb 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W232	2443917.26	1979 Feb 12 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A10	2443917.39	1979 Feb 12 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W234	2443917.44	1979 Feb 12 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W235	2443917.55	1979 Feb 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W238	2443919.09	1979 Feb 14 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W239	2443919.12	1979 Feb 14 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W240	2443919.15	1979 Feb 14 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W241	2443919.19	1979 Feb 14 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y103	2443919.27	1979 Feb 14 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y104	2443919.29	1979 Feb 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W242	2443919.30	1979 Feb 14 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W244	2443919.32	1979 Feb 14 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W245	2443919.34	1979 Feb 14 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y106	2443919.37	1979 Feb 14 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W246	2443919.39	1979 Feb 14 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W247	2443919.46	1979 Feb 14 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W248	2443919.56	1979 Feb 15 0125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W249	2443920.13	1979 Feb 15 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W250	2443920.24	1979 Feb 15 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W252	2443920.39	1979 Feb 15 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W253	2443920.57	1979 Feb 16 0145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W254	2443921.07	1979 Feb 16 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W255	2443921.07	1979 Feb 16 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W256	2443921.11	1979 Feb 16 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W257	2443921.11	1979 Feb 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W258	2443921.21	1979 Feb 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W259	2443921.33	1979 Feb 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W261	2443921.46	1979 Feb 16 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W262	2443924.05	1979 Feb 19 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W263	2443924.07	1979 Feb 19 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W264	2443924.12	1979 Feb 19 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A11	2443924.12	1979 Feb 19 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W265	2443924.20	1979 Feb 19 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W267	2443924.66	1979 Feb 20 0344:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W268	2443925.21	1979 Feb 20 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W270	2443925.32	1979 Feb 20 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W271	2443925.45	1979 Feb 20 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W272	2443925.62	1979 Feb 21 0246:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W273	2443926.06	1979 Feb 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W274	2443926.08	1979 Feb 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W275	2443926.13	1979 Feb 21 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W276	2443926.18	1979 Feb 21 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W277	2443926.20	1979 Feb 21 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W278	2443926.23	1979 Feb 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y119	2443926.25	1979 Feb 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W279	2443926.26	1979 Feb 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W281	2443926.45	1979 Feb 21 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W282	2443926.45	1979 Feb 21 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W283	2443927.18	1979 Feb 22 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W284	2443927.28	1979 Feb 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W286	2443928.06	1979 Feb 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W287	2443928.09	1979 Feb 23 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W288	2443928.12	1979 Feb 23 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W289	2443928.21	1979 Feb 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W290	2443928.23	1979 Feb 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W291	2443928.34	1979 Feb 23 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W293	2443928.37	1979 Feb 23 2048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W294	2443928.37	1979 Feb 23 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W295	2443928.50	1979 Feb 23 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W296	2443928.55	1979 Feb 24 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W297	2443931.03	1979 Feb 26 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W298	2443931.06	1979 Feb 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W299	2443931.11	1979 Feb 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W300	2443931.20	1979 Feb 26 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W302	2443931.21	1979 Feb 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W303	2443931.24	1979 Feb 26 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W305	2443931.37	1979 Feb 26 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W306	2443931.40	1979 Feb 26 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W307	2443931.46	1979 Feb 26 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W308	2443931.57	1979 Feb 27 0135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W313	2443932.15	1979 Feb 27 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W314	2443932.26	1979 Feb 27 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W315	2443932.28	1979 Feb 27 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W317	2443933.06	1979 Feb 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W320	2443933.10	1979 Feb 28 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W321	2443933.11	1979 Feb 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W323	2443933.15	1979 Feb 28 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y131	2443933.19	1979 Feb 28 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W324	2443933.20	1979 Feb 28 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W325	2443933.21	1979 Feb 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W327	2443933.25	1979 Feb 28 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y132	2443933.27	1979 Feb 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W328	2443933.44	1979 Feb 28 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W329	2443933.45	1979 Feb 28 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W331	2443934.24	1979 Mar 1 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W332	2443934.32	1979 Mar 1 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W334	2443935.26	1979 Mar 2 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W335	2443935.29	1979 Mar 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W336	2443935.37	1979 Mar 2 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y135	2443935.39	1979 Mar 2 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W337	2443935.41	1979 Mar 2 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W338	2443935.44	1979 Mar 2 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W339	2443938.11	1979 Mar 5 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W340	2443938.21	1979 Mar 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W341	2443938.31	1979 Mar 5 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W343	2443938.42	1979 Mar 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W344	2443938.49	1979 Mar 5 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W345	2443938.57	1979 Mar 6 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W347	2443940.12	1979 Mar 7 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y137	2443940.15	1979 Mar 7 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W348	2443940.16	1979 Mar 7 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W349	2443940.25	1979 Mar 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y139	2443940.31	1979 Mar 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W350	2443940.31	1979 Mar 7 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W351	2443940.32	1979 Mar 7 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W353	2443940.45	1979 Mar 7 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W354	2443940.48	1979 Mar 7 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W356	2443941.33	1979 Mar 8 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W357	2443942.11	1979 Mar 9 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W358	2443942.24	1979 Mar 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W360	2443942.38	1979 Mar 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W361	2443942.39	1979 Mar 9 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W362	2443942.47	1979 Mar 9 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W363	2443942.56	1979 Mar 10 0129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W364	2443945.13	1979 Mar 12 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W365	2443945.24	1979 Mar 12 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W366	2443945.25	1979 Mar 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W367	2443945.31	1979 Mar 12 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W368	2443945.42	1979 Mar 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W369	2443945.55	1979 Mar 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y144	2443947.14	1979 Mar 14 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W372	2443947.15	1979 Mar 14 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y145	2443947.29	1979 Mar 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W373	2443947.30	1979 Mar 14 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y146	2443947.31	1979 Mar 14 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W374	2443947.33	1979 Mar 14 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W375	2443947.35	1979 Mar 14 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y148	2443947.41	1979 Mar 14 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W376	2443947.42	1979 Mar 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W377	2443947.47	1979 Mar 14 2323:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W378	2443947.48	1979 Mar 14 2329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W381	2443948.38	1979 Mar 15 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W382	2443948.40	1979 Mar 15 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W384	2443949.21	1979 Mar 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W385	2443949.38	1979 Mar 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W386	2443949.39	1979 Mar 16 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W387	2443949.41	1979 Mar 16 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W388	2443952.13	1979 Mar 19 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W389	2443952.14	1979 Mar 19 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A15	2443952.26	1979 Mar 19 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W392	2443952.29	1979 Mar 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W393	2443952.37	1979 Mar 19 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W394	2443952.38	1979 Mar 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W395	2443952.55	1979 Mar 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W396	2443952.75	1979 Mar 20 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W398	2443954.12	1979 Mar 21 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W399	2443954.21	1979 Mar 21 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W400	2443954.24	1979 Mar 21 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y172	2443954.29	1979 Mar 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y173	2443954.31	1979 Mar 21 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W402	2443954.31	1979 Mar 21 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W403	2443954.33	1979 Mar 21 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W404	2443954.33	1979 Mar 21 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y174	2443954.40	1979 Mar 21 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W405	2443954.42	1979 Mar 21 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y175	2443954.57	1979 Mar 22 0141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A17	2443954.75	1979 Mar 22 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W407	2443956.11	1979 Mar 23 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W408	2443956.27	1979 Mar 23 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W409	2443956.29	1979 Mar 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W410	2443956.31	1979 Mar 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W412	2443956.37	1979 Mar 23 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W413	2443956.55	1979 Mar 24 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W414	2443956.71	1979 Mar 24 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W416	2443959.13	1979 Mar 26 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W417	2443959.23	1979 Mar 26 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W419	2443959.35	1979 Mar 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W420	2443959.38	1979 Mar 26 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W421	2443959.59	1979 Mar 27 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W422	2443959.80	1979 Mar 27 0714:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A18	2443960.38	1979 Mar 27 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W424	2443961.11	1979 Mar 28 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y198	2443961.17	1979 Mar 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W425	2443961.19	1979 Mar 28 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W426	2443961.21	1979 Mar 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y200	2443961.30	1979 Mar 28 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W430	2443961.33	1979 Mar 28 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W431	2443961.38	1979 Mar 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W432	2443961.45	1979 Mar 28 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W433	2443961.81	1979 Mar 29 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W434	2443962.38	1979 Mar 29 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W435	2443963.11	1979 Mar 30 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W437	2443963.25	1979 Mar 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W438	2443963.29	1979 Mar 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W439	2443963.38	1979 Mar 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W441	2443963.81	1979 Mar 31 0719:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W443	2443966.05	1979 Apr 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W444	2443966.06	1979 Apr 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W446	2443966.29	1979 Apr 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W447	2443966.37	1979 Apr 2 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A19	2443966.38	1979 Apr 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W448	2443966.44	1979 Apr 2 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W449	2443968.06	1979 Apr 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W450	2443968.06	1979 Apr 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y218	2443968.13	1979 Apr 4 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W452	2443968.16	1979 Apr 4 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W453	2443968.18	1979 Apr 4 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y220	2443968.29	1979 Apr 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W454	2443968.30	1979 Apr 4 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y221	2443968.33	1979 Apr 4 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W455	2443968.35	1979 Apr 4 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W456	2443968.38	1979 Apr 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W457	2443968.40	1979 Apr 4 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W458	2443968.45	1979 Apr 4 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W459	2443968.49	1979 Apr 4 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W460	2443968.55	1979 Apr 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W461	2443968.57	1979 Apr 5 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W462	2443969.22	1979 Apr 5 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W464	2443969.38	1979 Apr 5 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W467	2443969.44	1979 Apr 5 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W468	2443970.05	1979 Apr 6 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W469	2443970.11	1979 Apr 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W471	2443970.16	1979 Apr 6 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W472	2443970.24	1979 Apr 6 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W473	2443970.32	1979 Apr 6 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W474	2443970.37	1979 Apr 6 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W475	2443970.55	1979 Apr 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W476	2443973.04	1979 Apr 9 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W477	2443973.13	1979 Apr 9 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W478	2443973.37	1979 Apr 9 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W479	2443973.41	1979 Apr 9 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W480	2443973.42	1979 Apr 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W481	2443973.55	1979 Apr 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W482	2443975.06	1979 Apr 11 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W483	2443975.07	1979 Apr 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W484	2443975.12	1979 Apr 11 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y245	2443975.13	1979 Apr 11 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W486	2443975.15	1979 Apr 11 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W488	2443975.28	1979 Apr 11 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W489	2443975.32	1979 Apr 11 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W490	2443975.42	1979 Apr 11 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W491	2443975.45	1979 Apr 11 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W492	2443976.31	1979 Apr 12 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W493	2443977.06	1979 Apr 13 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W494	2443977.06	1979 Apr 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W495	2443977.13	1979 Apr 13 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W497	2443977.27	1979 Apr 13 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W498	2443977.47	1979 Apr 13 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W499	2443980.06	1979 Apr 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W500	2443980.12	1979 Apr 16 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W501	2443980.20	1979 Apr 16 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W502	2443980.29	1979 Apr 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W503	2443980.42	1979 Apr 16 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W504	2443980.55	1979 Apr 17 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W505	2443980.77	1979 Apr 17 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W506	2443982.06	1979 Apr 18 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W507	2443982.06	1979 Apr 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W508	2443982.10	1979 Apr 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W509	2443982.11	1979 Apr 18 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y252	2443982.14	1979 Apr 18 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W510	2443982.16	1979 Apr 18 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W511	2443982.21	1979 Apr 18 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y253	2443982.29	1979 Apr 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W512	2443982.31	1979 Apr 18 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W513	2443982.37	1979 Apr 18 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W514	2443982.55	1979 Apr 19 0109:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W515	2443983.42	1979 Apr 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W516	2443983.42	1979 Apr 19 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W517	2443984.08	1979 Apr 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W518	2443984.09	1979 Apr 20 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W519	2443984.11	1979 Apr 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W520	2443984.21	1979 Apr 20 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W521	2443984.31	1979 Apr 20 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W522	2443984.37	1979 Apr 20 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W523	2443984.46	1979 Apr 20 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W524	2443984.55	1979 Apr 21 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W525	2443984.56	1979 Apr 21 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W529	2443987.07	1979 Apr 23 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W530	2443987.11	1979 Apr 23 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W532	2443987.21	1979 Apr 23 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W533	2443987.33	1979 Apr 23 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W534	2443987.42	1979 Apr 23 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W535	2443987.49	1979 Apr 23 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W537	2443989.09	1979 Apr 25 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W538	2443989.11	1979 Apr 25 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y261	2443989.14	1979 Apr 25 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W539	2443989.18	1979 Apr 25 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W540	2443989.20	1979 Apr 25 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W541	2443989.23	1979 Apr 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W542	2443989.23	1979 Apr 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y263	2443989.39	1979 Apr 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W543	2443989.40	1979 Apr 25 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W544	2443989.45	1979 Apr 25 2248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W545	2443989.47	1979 Apr 25 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W546	2443990.39	1979 Apr 26 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W549	2443991.06	1979 Apr 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W550	2443991.10	1979 Apr 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W551	2443991.10	1979 Apr 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W552	2443991.31	1979 Apr 27 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W553	2443991.33	1979 Apr 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W554	2443991.47	1979 Apr 27 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W555	2443991.55	1979 Apr 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W557	2443994.11	1979 Apr 30 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W558	2443994.16	1979 Apr 30 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W559	2443994.24	1979 Apr 30 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W560	2443994.25	1979 Apr 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W561	2443994.37	1979 Apr 30 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W562	2443994.38	1979 Apr 30 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W563	2443994.44	1979 Apr 30 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W564	2443996.06	1979 May 2 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W565	2443996.06	1979 May 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y270	2443996.09	1979 May 2 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W566	2443996.11	1979 May 2 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W567	2443996.13	1979 May 2 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W568	2443996.16	1979 May 2 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y271	2443996.23	1979 May 2 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W569	2443996.25	1979 May 2 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y273	2443996.31	1979 May 2 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W570	2443996.32	1979 May 2 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W571	2443996.33	1979 May 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W572	2443996.45	1979 May 2 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W573	2443996.50	1979 May 2 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W574	2443997.15	1979 May 3 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W575	2443997.19	1979 May 3 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W578	2443997.31	1979 May 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y277	2443997.42	1979 May 3 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W579	2443997.45	1979 May 3 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W580	2443998.05	1979 May 4 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W581	2443998.06	1979 May 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W582	2443998.10	1979 May 4 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W583	2443998.11	1979 May 4 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W584	2443998.14	1979 May 4 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W585	2443998.21	1979 May 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W586	2443998.25	1979 May 4 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W587	2443998.30	1979 May 4 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W588	2443998.33	1979 May 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W589	2443998.45	1979 May 4 2245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W590	2443998.50	1979 May 5 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W591	2444001.05	1979 May 7 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W592	2444001.10	1979 May 7 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W593	2444001.16	1979 May 7 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W594	2444001.21	1979 May 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W595	2444001.26	1979 May 7 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W596	2444001.33	1979 May 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W597	2444002.33	1979 May 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W598	2444002.61	1979 May 9 0240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W599	2444003.10	1979 May 9 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W600	2444003.21	1979 May 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y281	2444003.22	1979 May 9 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W601	2444003.23	1979 May 9 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A22	2444003.23	1979 May 9 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W602	2444003.24	1979 May 9 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W603	2444003.26	1979 May 9 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W604	2444003.27	1979 May 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y282	2444003.29	1979 May 9 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W605	2444003.30	1979 May 9 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W606	2444003.31	1979 May 9 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W607	2444003.33	1979 May 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W608	2444003.44	1979 May 9 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W609	2444003.45	1979 May 9 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W610	2444004.57	1979 May 11 0141:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W611	2444005.04	1979 May 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W612	2444005.06	1979 May 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W613	2444005.10	1979 May 11 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W614	2444005.12	1979 May 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W615	2444005.15	1979 May 11 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W616	2444005.29	1979 May 11 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W617	2444005.31	1979 May 11 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W618	2444005.47	1979 May 11 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W619	2444006.18	1979 May 12 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W621	2444008.06	1979 May 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W622	2444008.09	1979 May 14 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W623	2444008.12	1979 May 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W624	2444008.15	1979 May 14 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W625	2444008.25	1979 May 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W626	2444008.27	1979 May 14 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W627	2444008.37	1979 May 14 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W628	2444008.48	1979 May 14 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W629	2444008.58	1979 May 15 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W630	2444009.33	1979 May 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W632	2444010.06	1979 May 16 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W633	2444010.12	1979 May 16 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W634	2444010.17	1979 May 16 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W635	2444010.21	1979 May 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W636	2444010.26	1979 May 16 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y292	2444010.30	1979 May 16 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W637	2444010.32	1979 May 16 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W638	2444010.33	1979 May 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W640	2444010.47	1979 May 16 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W641	2444010.57	1979 May 17 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W642	2444011.33	1979 May 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W643	2444011.62	1979 May 18 0247:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W644	2444012.10	1979 May 18 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W645	2444012.11	1979 May 18 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A23	2444012.13	1979 May 18 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W646	2444012.23	1979 May 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W647	2444012.24	1979 May 18 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W648	2444012.25	1979 May 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W649	2444012.28	1979 May 18 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W650	2444012.33	1979 May 18 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W652	2444012.61	1979 May 19 0237:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W653	2444015.07	1979 May 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W654	2444015.09	1979 May 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W655	2444015.14	1979 May 21 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W656	2444015.20	1979 May 21 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W657	2444015.25	1979 May 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W658	2444015.31	1979 May 21 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W660	2444015.33	1979 May 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A24	2444015.37	1979 May 21 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W661	2444015.38	1979 May 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W662	2444015.56	1979 May 22 0127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W664	2444017.04	1979 May 23 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W665	2444017.10	1979 May 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W667	2444017.11	1979 May 23 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W668	2444017.11	1979 May 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y307	2444017.14	1979 May 23 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W669	2444017.16	1979 May 23 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y308	2444017.20	1979 May 23 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W670	2444017.21	1979 May 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W671	2444017.22	1979 May 23 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W672	2444017.30	1979 May 23 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W674	2444017.45	1979 May 23 2253:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W675	2444017.45	1979 May 23 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W676	2444017.53	1979 May 24 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W678	2444019.07	1979 May 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W679	2444019.07	1979 May 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W680	2444019.10	1979 May 25 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W681	2444019.11	1979 May 25 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W682	2444019.19	1979 May 25 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W683	2444019.25	1979 May 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W684	2444019.25	1979 May 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W685	2444019.26	1979 May 25 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W686	2444019.33	1979 May 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W687	2444019.41	1979 May 25 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W688	2444019.47	1979 May 25 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W689	2444019.62	1979 May 26 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W695	2444022.12	1979 May 28 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W697	2444023.06	1979 May 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W698	2444023.11	1979 May 29 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W699	2444023.23	1979 May 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W701	2444023.40	1979 May 29 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W702	2444023.41	1979 May 29 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W703	2444024.06	1979 May 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W704	2444024.06	1979 May 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y318	2444024.09	1979 May 30 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A25	2444024.10	1979 May 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W705	2444024.11	1979 May 30 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W706	2444024.13	1979 May 30 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y321	2444024.25	1979 May 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W707	2444024.26	1979 May 30 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W708	2444024.29	1979 May 30 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W709	2444024.31	1979 May 30 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W710	2444024.33	1979 May 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y323	2444024.38	1979 May 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W711	2444024.40	1979 May 30 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W712	2444024.45	1979 May 30 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W713	2444025.33	1979 May 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W715	2444026.06	1979 Jun 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W716	2444026.10	1979 Jun 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W717	2444026.21	1979 Jun 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W718	2444026.22	1979 Jun 1 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W719	2444026.38	1979 Jun 1 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W720	2444026.41	1979 Jun 1 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W721	2444026.56	1979 Jun 2 0125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W722	2444029.06	1979 Jun 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W723	2444029.07	1979 Jun 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W724	2444029.10	1979 Jun 4 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y326	2444029.10	1979 Jun 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W725	2444029.21	1979 Jun 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W726	2444029.25	1979 Jun 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W727	2444029.27	1979 Jun 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W728	2444029.30	1979 Jun 4 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A26	2444029.38	1979 Jun 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W729	2444029.55	1979 Jun 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W731	2444031.05	1979 Jun 6 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W732	2444031.06	1979 Jun 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W733	2444031.07	1979 Jun 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W734	2444031.10	1979 Jun 6 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W735	2444031.10	1979 Jun 6 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W736	2444031.10	1979 Jun 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W737	2444031.19	1979 Jun 6 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y332	2444031.20	1979 Jun 6 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W738	2444031.21	1979 Jun 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W739	2444031.23	1979 Jun 6 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W740	2444031.26	1979 Jun 6 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W741	2444031.44	1979 Jun 6 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W742	2444032.57	1979 Jun 8 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W744	2444033.06	1979 Jun 8 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W745	2444033.11	1979 Jun 8 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W746	2444033.25	1979 Jun 8 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W747	2444033.31	1979 Jun 8 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A27	2444033.40	1979 Jun 8 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W749	2444036.09	1979 Jun 11 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W750	2444036.10	1979 Jun 11 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W751	2444036.14	1979 Jun 11 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W752	2444036.17	1979 Jun 11 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W753	2444036.26	1979 Jun 11 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W754	2444036.29	1979 Jun 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W755	2444036.56	1979 Jun 12 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W757	2444038.06	1979 Jun 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A28	2444038.07	1979 Jun 13 1333:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W759	2444038.07	1979 Jun 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W760	2444038.10	1979 Jun 13 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y339	2444038.11	1979 Jun 13 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W761	2444038.15	1979 Jun 13 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W762	2444038.17	1979 Jun 13 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W763	2444038.21	1979 Jun 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y341	2444038.25	1979 Jun 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W764	2444038.26	1979 Jun 13 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W765	2444038.28	1979 Jun 13 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W766	2444038.62	1979 Jun 14 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W767	2444039.62	1979 Jun 15 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W769	2444040.06	1979 Jun 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W770	2444040.06	1979 Jun 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W771	2444040.07	1979 Jun 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W772	2444040.16	1979 Jun 15 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W773	2444040.21	1979 Jun 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W774	2444040.24	1979 Jun 15 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W775	2444040.33	1979 Jun 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W776	2444040.38	1979 Jun 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W777	2444043.06	1979 Jun 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W778	2444043.11	1979 Jun 18 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W779	2444043.12	1979 Jun 18 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W781	2444043.18	1979 Jun 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W782	2444043.31	1979 Jun 18 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W783	2444043.39	1979 Jun 18 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W784	2444043.43	1979 Jun 18 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W785	2444044.55	1979 Jun 20 0109:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W787	2444045.08	1979 Jun 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W788	2444045.10	1979 Jun 20 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W789	2444045.11	1979 Jun 20 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W790	2444045.12	1979 Jun 20 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W791	2444045.21	1979 Jun 20 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y350	2444045.24	1979 Jun 20 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W792	2444045.27	1979 Jun 20 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y352	2444045.38	1979 Jun 20 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W793	2444045.48	1979 Jun 20 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W795	2444047.07	1979 Jun 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W796	2444047.13	1979 Jun 22 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W797	2444047.26	1979 Jun 22 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W798	2444047.27	1979 Jun 22 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W799	2444047.31	1979 Jun 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W800	2444047.37	1979 Jun 22 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W801	2444047.47	1979 Jun 22 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W802	2444047.55	1979 Jun 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W803	2444049.62	1979 Jun 25 0251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W804	2444050.06	1979 Jun 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W805	2444050.07	1979 Jun 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W806	2444050.12	1979 Jun 25 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W807	2444050.12	1979 Jun 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A29	2444050.21	1979 Jun 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W808	2444050.21	1979 Jun 25 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W809	2444050.24	1979 Jun 25 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W810	2444050.25	1979 Jun 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A30	2444050.33	1979 Jun 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W811	2444050.37	1979 Jun 25 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W812	2444050.45	1979 Jun 25 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W813	2444050.55	1979 Jun 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W815	2444052.05	1979 Jun 27 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W816	2444052.08	1979 Jun 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W817	2444052.09	1979 Jun 27 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W818	2444052.10	1979 Jun 27 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y362	2444052.11	1979 Jun 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W819	2444052.16	1979 Jun 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W820	2444052.18	1979 Jun 27 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W821	2444052.25	1979 Jun 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y366	2444052.29	1979 Jun 27 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W822	2444052.31	1979 Jun 27 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y367	2444052.33	1979 Jun 27 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W823	2444052.34	1979 Jun 27 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W824	2444052.38	1979 Jun 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W825	2444052.38	1979 Jun 27 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y368	2444054.07	1979 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W826	2444054.07	1979 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W827	2444054.11	1979 Jun 29 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W828	2444054.15	1979 Jun 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W829	2444054.19	1979 Jun 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W830	2444054.23	1979 Jun 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W831	2444054.24	1979 Jun 29 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A31	2444054.33	1979 Jun 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W832	2444054.37	1979 Jun 29 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W833	2444054.44	1979 Jun 29 2230:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W834	2444054.55	1979 Jun 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W835	2444057.06	1979 Jul 2 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W836	2444057.14	1979 Jul 2 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W837	2444057.21	1979 Jul 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W838	2444057.30	1979 Jul 2 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W839	2444057.37	1979 Jul 2 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W840	2444057.47	1979 Jul 2 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W841	2444057.53	1979 Jul 3 0037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W842	2444058.11	1979 Jul 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A32	2444058.33	1979 Jul 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W844	2444058.62	1979 Jul 4 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W846	2444059.26	1979 Jul 4 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W847	2444059.62	1979 Jul 5 0259:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W848	2444060.62	1979 Jul 6 0258:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y378	2444061.08	1979 Jul 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W849	2444061.10	1979 Jul 6 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y379	2444061.21	1979 Jul 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W850	2444061.22	1979 Jul 6 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W851	2444061.26	1979 Jul 6 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W852	2444061.27	1979 Jul 6 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A33	2444061.29	1979 Jul 6 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W853	2444061.29	1979 Jul 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W854	2444061.37	1979 Jul 6 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W855	2444061.57	1979 Jul 7 0135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W856	2444064.06	1979 Jul 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W857	2444064.07	1979 Jul 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y382	2444064.09	1979 Jul 9 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W858	2444064.09	1979 Jul 9 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W859	2444064.21	1979 Jul 9 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W860	2444064.25	1979 Jul 9 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W861	2444064.27	1979 Jul 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W862	2444064.49	1979 Jul 9 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W863	2444064.55	1979 Jul 10 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W864	2444065.08	1979 Jul 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W866	2444066.06	1979 Jul 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W867	2444066.07	1979 Jul 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W868	2444066.09	1979 Jul 11 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W869	2444066.09	1979 Jul 11 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W870	2444066.17	1979 Jul 11 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y387	2444066.19	1979 Jul 11 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W871	2444066.21	1979 Jul 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W872	2444066.22	1979 Jul 11 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y388	2444066.25	1979 Jul 11 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W873	2444066.27	1979 Jul 11 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W874	2444066.47	1979 Jul 11 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W875	2444066.62	1979 Jul 12 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A34	2444067.33	1979 Jul 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y390	2444067.37	1979 Jul 12 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W879	2444067.39	1979 Jul 12 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W880	2444067.62	1979 Jul 13 0255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y391	2444068.07	1979 Jul 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W881	2444068.07	1979 Jul 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W882	2444068.14	1979 Jul 13 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W883	2444068.21	1979 Jul 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W884	2444068.25	1979 Jul 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W885	2444068.32	1979 Jul 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W886	2444068.37	1979 Jul 13 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W887	2444068.38	1979 Jul 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y393	2444069.29	1979 Jul 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W888	2444069.39	1979 Jul 14 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W890	2444071.06	1979 Jul 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W891	2444071.07	1979 Jul 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W892	2444071.10	1979 Jul 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W893	2444071.14	1979 Jul 16 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W894	2444071.19	1979 Jul 16 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W895	2444071.21	1979 Jul 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W896	2444071.27	1979 Jul 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W897	2444071.31	1979 Jul 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W898	2444071.55	1979 Jul 17 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W899	2444071.95	1979 Jul 17 1052:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W900	2444072.27	1979 Jul 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W901	2444072.53	1979 Jul 18 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W904	2444073.06	1979 Jul 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W905	2444073.09	1979 Jul 18 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W906	2444073.10	1979 Jul 18 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y400	2444073.10	1979 Jul 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W907	2444073.11	1979 Jul 18 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W908	2444073.15	1979 Jul 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y401	2444073.25	1979 Jul 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W909	2444073.26	1979 Jul 18 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W910	2444073.27	1979 Jul 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W911	2444073.29	1979 Jul 18 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W912	2444073.91	1979 Jul 19 0951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W913	2444075.06	1979 Jul 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W914	2444075.06	1979 Jul 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W915	2444075.10	1979 Jul 20 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W916	2444075.55	1979 Jul 21 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y406	2444077.29	1979 Jul 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W917	2444077.38	1979 Jul 22 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W918	2444078.07	1979 Jul 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W919	2444078.09	1979 Jul 23 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W920	2444078.25	1979 Jul 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W921	2444078.25	1979 Jul 23 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W922	2444078.27	1979 Jul 23 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W923	2444078.37	1979 Jul 23 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W924	2444079.52	1979 Jul 25 0035:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W925	2444080.06	1979 Jul 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W926	2444080.06	1979 Jul 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W927	2444080.10	1979 Jul 25 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W928	2444080.10	1979 Jul 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W929	2444080.11	1979 Jul 25 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W930	2444080.11	1979 Jul 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y411	2444080.25	1979 Jul 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W931	2444080.26	1979 Jul 25 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W932	2444080.33	1979 Jul 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W933	2444080.33	1979 Jul 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W934	2444080.38	1979 Jul 25 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W935	2444080.39	1979 Jul 25 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y412	2444080.46	1979 Jul 25 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W936	2444081.35	1979 Jul 26 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W937	2444082.06	1979 Jul 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W938	2444082.07	1979 Jul 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W939	2444082.08	1979 Jul 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W940	2444082.11	1979 Jul 27 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W941	2444082.21	1979 Jul 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W942	2444082.37	1979 Jul 27 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W943	2444082.55	1979 Jul 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W944	2444085.07	1979 Jul 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W945	2444085.13	1979 Jul 30 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W946	2444085.15	1979 Jul 30 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W947	2444085.16	1979 Jul 30 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W948	2444085.21	1979 Jul 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W949	2444085.25	1979 Jul 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W950	2444085.44	1979 Jul 30 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W951	2444085.71	1979 Jul 31 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W953	2444087.06	1979 Aug 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W954	2444087.07	1979 Aug 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W955	2444087.08	1979 Aug 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W956	2444087.10	1979 Aug 1 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W957	2444087.10	1979 Aug 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W958	2444087.11	1979 Aug 1 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W959	2444087.11	1979 Aug 1 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W960	2444087.21	1979 Aug 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y420	2444087.25	1979 Aug 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W961	2444087.26	1979 Aug 1 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y421	2444087.37	1979 Aug 1 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W962	2444087.39	1979 Aug 1 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y422	2444087.56	1979 Aug 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W963	2444088.06	1979 Aug 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W964	2444088.10	1979 Aug 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W965	2444088.69	1979 Aug 3 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W966	2444088.81	1979 Aug 3 0719:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W967	2444088.87	1979 Aug 3 0849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W968	2444089.06	1979 Aug 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W969	2444089.06	1979 Aug 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y424	2444089.10	1979 Aug 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W970	2444089.14	1979 Aug 3 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W971	2444089.38	1979 Aug 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W972	2444089.55	1979 Aug 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W973	2444092.07	1979 Aug 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W974	2444092.07	1979 Aug 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W975	2444092.10	1979 Aug 6 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W976	2444092.34	1979 Aug 6 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W977	2444092.41	1979 Aug 6 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W978	2444092.61	1979 Aug 7 0241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W979	2444093.18	1979 Aug 7 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W980	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W981	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W982	2444094.06	1979 Aug 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W983	2444094.10	1979 Aug 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W984	2444094.17	1979 Aug 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W985	2444094.55	1979 Aug 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W986	2444095.34	1979 Aug 9 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W987	2444096.17	1979 Aug 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W988	2444096.28	1979 Aug 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W989	2444096.55	1979 Aug 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W990	2444099.06	1979 Aug 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W991	2444099.07	1979 Aug 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W993	2444099.14	1979 Aug 13 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W994	2444099.18	1979 Aug 13 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W995	2444099.55	1979 Aug 14 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W996	2444100.30	1979 Aug 14 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A36	2444100.55	1979 Aug 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W998	2444101.06	1979 Aug 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W999	2444101.07	1979 Aug 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1000	2444101.08	1979 Aug 15 1355:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y437	2444101.10	1979 Aug 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1001	2444101.11	1979 Aug 15 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y438	2444101.25	1979 Aug 15 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1002	2444101.26	1979 Aug 15 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W01	2444241.06	1980 Jan 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W02	2444241.07	1980 Jan 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W03	2444241.10	1980 Jan 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W04	2444241.13	1980 Jan 2 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y06	2444241.15	1980 Jan 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W05	2444241.25	1980 Jan 2 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W06	2444241.51	1980 Jan 3 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W07	2444241.56	1980 Jan 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W08	2444242.20	1980 Jan 3 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W09	2444243.06	1980 Jan 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W10	2444243.08	1980 Jan 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W11	2444243.11	1980 Jan 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W12	2444243.16	1980 Jan 4 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W13	2444243.20	1980 Jan 4 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W14	2444243.30	1980 Jan 4 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W15	2444243.55	1980 Jan 5 0109:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y13	2444243.55	1980 Jan 5 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W17	2444246.11	1980 Jan 7 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W18	2444246.11	1980 Jan 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W19	2444246.14	1980 Jan 7 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W20	2444246.23	1980 Jan 7 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W21	2444246.25	1980 Jan 7 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y18	2444246.26	1980 Jan 7 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W22	2444246.27	1980 Jan 7 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W23	2444246.32	1980 Jan 7 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W25	2444246.38	1980 Jan 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W26	2444246.39	1980 Jan 7 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W27	2444246.55	1980 Jan 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W29	2444248.06	1980 Jan 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W30	2444248.07	1980 Jan 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W31	2444248.10	1980 Jan 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W32	2444248.29	1980 Jan 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W33	2444248.45	1980 Jan 9 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W34	2444248.56	1980 Jan 10 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W35	2444250.10	1980 Jan 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W36	2444250.10	1980 Jan 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W37	2444250.11	1980 Jan 11 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W38	2444250.13	1980 Jan 11 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W39	2444250.17	1980 Jan 11 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W40	2444250.18	1980 Jan 11 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W41	2444250.23	1980 Jan 11 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A01	2444250.42	1980 Jan 11 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W42	2444250.55	1980 Jan 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W46	2444253.07	1980 Jan 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W47	2444253.10	1980 Jan 14 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W48	2444253.11	1980 Jan 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W49	2444253.55	1980 Jan 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W50	2444254.30	1980 Jan 15 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W51	2444254.40	1980 Jan 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W55	2444255.07	1980 Jan 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W56	2444255.10	1980 Jan 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W57	2444255.12	1980 Jan 16 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y31	2444255.15	1980 Jan 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W59	2444255.30	1980 Jan 16 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W60	2444255.30	1980 Jan 16 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W61	2444255.39	1980 Jan 16 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W62	2444255.48	1980 Jan 16 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y33	2444256.14	1980 Jan 17 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W63	2444257.05	1980 Jan 18 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W64	2444257.10	1980 Jan 18 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W65	2444257.11	1980 Jan 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W68	2444257.39	1980 Jan 18 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W69	2444259.72	1980 Jan 21 0515:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W70	2444260.05	1980 Jan 21 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W71	2444260.07	1980 Jan 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y43	2444260.15	1980 Jan 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W72	2444260.20	1980 Jan 21 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W73	2444260.28	1980 Jan 21 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A02	2444260.39	1980 Jan 21 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W74	2444260.55	1980 Jan 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y44	2444261.11	1980 Jan 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y45	2444261.25	1980 Jan 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W77	2444262.06	1980 Jan 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W78	2444262.08	1980 Jan 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W79	2444262.11	1980 Jan 23 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W80	2444262.22	1980 Jan 23 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W81	2444262.22	1980 Jan 23 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W82	2444262.45	1980 Jan 23 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W83	2444262.58	1980 Jan 24 0158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W84	2444263.21	1980 Jan 24 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W85	2444264.03	1980 Jan 25 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W86	2444264.07	1980 Jan 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W87	2444264.10	1980 Jan 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W88	2444264.14	1980 Jan 25 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W89	2444264.21	1980 Jan 25 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W90	2444264.38	1980 Jan 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W91	2444264.55	1980 Jan 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W92	2444267.06	1980 Jan 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W93	2444267.07	1980 Jan 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W94	2444267.10	1980 Jan 28 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W95	2444267.11	1980 Jan 28 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y56	2444267.14	1980 Jan 28 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W96	2444267.31	1980 Jan 28 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W97	2444267.31	1980 Jan 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A03	2444267.38	1980 Jan 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W98	2444267.56	1980 Jan 29 0122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A04	2444268.41	1980 Jan 29 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W99	2444269.06	1980 Jan 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W100	2444269.07	1980 Jan 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y60	2444269.14	1980 Jan 30 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W101	2444269.31	1980 Jan 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W102	2444269.45	1980 Jan 30 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W103	2444269.97	1980 Jan 31 1110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W104	2444270.11	1980 Jan 31 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W105	2444270.12	1980 Jan 31 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W106	2444270.39	1980 Jan 31 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W107	2444270.50	1980 Feb 1 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W108	2444270.51	1980 Feb 1 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W109	2444270.51	1980 Feb 1 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W110	2444271.09	1980 Feb 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A05	2444271.16	1980 Feb 1 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W111	2444271.20	1980 Feb 1 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W112	2444271.35	1980 Feb 1 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W113	2444274.07	1980 Feb 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W114	2444274.10	1980 Feb 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W115	2444274.11	1980 Feb 4 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W116	2444274.24	1980 Feb 4 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y65	2444274.33	1980 Feb 4 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W117	2444274.38	1980 Feb 4 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W118	2444274.40	1980 Feb 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y66	2444274.56	1980 Feb 5 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W120	2444276.06	1980 Feb 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W121	2444276.10	1980 Feb 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W122	2444276.10	1980 Feb 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y70	2444276.15	1980 Feb 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W123	2444276.45	1980 Feb 6 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W124	2444278.07	1980 Feb 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W125	2444278.11	1980 Feb 8 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W127	2444278.40	1980 Feb 8 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y74	2444278.55	1980 Feb 9 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W129	2444281.07	1980 Feb 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W130	2444281.11	1980 Feb 11 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W131	2444281.11	1980 Feb 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W132	2444281.23	1980 Feb 11 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W133	2444281.29	1980 Feb 11 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W134	2444281.39	1980 Feb 11 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W135	2444281.56	1980 Feb 12 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W136	2444282.24	1980 Feb 12 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W138	2444283.06	1980 Feb 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W139	2444283.12	1980 Feb 13 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W140	2444283.12	1980 Feb 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W141	2444283.21	1980 Feb 13 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y80	2444283.28	1980 Feb 13 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W142	2444283.38	1980 Feb 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W143	2444283.46	1980 Feb 13 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W145	2444284.20	1980 Feb 14 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y81	2444284.47	1980 Feb 14 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W146	2444284.50	1980 Feb 14 2353:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W147	2444284.50	1980 Feb 14 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W148	2444284.50	1980 Feb 15 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W150	2444285.06	1980 Feb 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W151	2444285.07	1980 Feb 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W152	2444285.10	1980 Feb 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W153	2444285.12	1980 Feb 15 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W154	2444285.15	1980 Feb 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W155	2444285.19	1980 Feb 15 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W156	2444285.56	1980 Feb 16 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W158	2444288.12	1980 Feb 18 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W159	2444288.20	1980 Feb 18 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W161	2444288.38	1980 Feb 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W163	2444289.42	1980 Feb 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W166	2444290.06	1980 Feb 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W167	2444290.10	1980 Feb 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W168	2444290.13	1980 Feb 20 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W169	2444290.13	1980 Feb 20 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y90	2444290.15	1980 Feb 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W170	2444290.32	1980 Feb 20 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W171	2444290.50	1980 Feb 21 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W172	2444292.07	1980 Feb 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A07	2444292.10	1980 Feb 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W173	2444292.10	1980 Feb 22 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W174	2444292.31	1980 Feb 22 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W175	2444292.55	1980 Feb 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W178	2444295.05	1980 Feb 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W179	2444295.06	1980 Feb 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W181	2444295.10	1980 Feb 25 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W182	2444295.12	1980 Feb 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y102	2444295.30	1980 Feb 25 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y103	2444295.32	1980 Feb 25 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W185	2444295.55	1980 Feb 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W190	2444297.11	1980 Feb 27 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W191	2444297.22	1980 Feb 27 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W193	2444297.45	1980 Feb 27 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W199	2444298.32	1980 Feb 28 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A08	2444298.39	1980 Feb 28 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W200	2444298.46	1980 Feb 28 2308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W201	2444298.49	1980 Feb 28 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y128	2444298.50	1980 Feb 28 2353:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W202	2444298.50	1980 Feb 28 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W207	2444299.05	1980 Feb 29 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W208	2444299.07	1980 Feb 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W209	2444299.10	1980 Feb 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y136	2444299.14	1980 Feb 29 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W210	2444299.14	1980 Feb 29 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W211	2444299.31	1980 Feb 29 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W212	2444299.40	1980 Feb 29 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W213	2444299.55	1980 Mar 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W216	2444302.08	1980 Mar 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W217	2444302.09	1980 Mar 3 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W218	2444302.12	1980 Mar 3 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W219	2444302.13	1980 Mar 3 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W220	2444302.39	1980 Mar 3 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W221	2444302.55	1980 Mar 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W222	2444303.12	1980 Mar 4 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W225	2444304.12	1980 Mar 5 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y142	2444304.37	1980 Mar 5 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W226	2444304.38	1980 Mar 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W227	2444304.39	1980 Mar 5 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W228	2444304.45	1980 Mar 5 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W229	2444305.30	1980 Mar 6 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W230	2444305.38	1980 Mar 6 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W231	2444305.53	1980 Mar 7 0047:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W232	2444306.08	1980 Mar 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W233	2444306.14	1980 Mar 7 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W234	2444306.20	1980 Mar 7 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W235	2444306.37	1980 Mar 7 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W236	2444306.38	1980 Mar 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W237	2444309.06	1980 Mar 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W238	2444309.07	1980 Mar 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W239	2444309.12	1980 Mar 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y146	2444309.13	1980 Mar 10 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W240	2444309.20	1980 Mar 10 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W241	2444309.28	1980 Mar 10 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W242	2444309.29	1980 Mar 10 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W243	2444309.41	1980 Mar 10 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W244	2444309.66	1980 Mar 11 0352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W245	2444310.30	1980 Mar 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W246	2444310.52	1980 Mar 12 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W249	2444311.06	1980 Mar 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W251	2444311.11	1980 Mar 12 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W252	2444311.12	1980 Mar 12 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y149	2444311.19	1980 Mar 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W253	2444311.25	1980 Mar 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W254	2444311.30	1980 Mar 12 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A09	2444311.39	1980 Mar 12 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W255	2444311.50	1980 Mar 13 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W256	2444311.51	1980 Mar 13 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W257	2444311.51	1980 Mar 13 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W258	2444311.61	1980 Mar 13 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W259	2444312.20	1980 Mar 13 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W261	2444313.06	1980 Mar 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A10	2444313.07	1980 Mar 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W262	2444313.11	1980 Mar 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A11	2444313.38	1980 Mar 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W263	2444313.55	1980 Mar 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W264	2444313.75	1980 Mar 15 0604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W265	2444316.11	1980 Mar 17 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W266	2444316.11	1980 Mar 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W267	2444316.18	1980 Mar 17 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W268	2444316.19	1980 Mar 17 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W269	2444316.24	1980 Mar 17 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W270	2444316.29	1980 Mar 17 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W271	2444316.39	1980 Mar 17 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W272	2444316.50	1980 Mar 17 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W273	2444316.50	1980 Mar 18 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y150	2444316.50	1980 Mar 18 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W274	2444316.68	1980 Mar 18 0414:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y151	2444317.31	1980 Mar 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W275	2444317.34	1980 Mar 18 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W278	2444317.67	1980 Mar 19 0404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W280	2444318.11	1980 Mar 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W281	2444318.15	1980 Mar 19 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W282	2444318.21	1980 Mar 19 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W283	2444318.25	1980 Mar 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y157	2444318.29	1980 Mar 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W284	2444318.29	1980 Mar 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W285	2444318.34	1980 Mar 19 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y159	2444318.37	1980 Mar 19 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W286	2444318.39	1980 Mar 19 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W287	2444318.66	1980 Mar 20 0352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W289	2444320.06	1980 Mar 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W290	2444320.07	1980 Mar 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W291	2444320.22	1980 Mar 21 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W292	2444320.38	1980 Mar 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W293	2444320.40	1980 Mar 21 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W294	2444320.54	1980 Mar 22 0102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W295	2444320.55	1980 Mar 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W296	2444320.81	1980 Mar 22 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W297	2444323.07	1980 Mar 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W298	2444323.11	1980 Mar 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W299	2444323.12	1980 Mar 24 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y163	2444323.12	1980 Mar 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W300	2444323.15	1980 Mar 24 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W301	2444323.25	1980 Mar 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W302	2444323.31	1980 Mar 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A12	2444323.38	1980 Mar 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W303	2444323.38	1980 Mar 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W304	2444323.55	1980 Mar 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A13	2444325.10	1980 Mar 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W307	2444325.12	1980 Mar 26 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W308	2444325.12	1980 Mar 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y168	2444325.29	1980 Mar 26 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W310	2444325.29	1980 Mar 26 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W311	2444325.30	1980 Mar 26 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W312	2444325.38	1980 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W313	2444325.68	1980 Mar 27 0413:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y171	2444325.80	1980 Mar 27 0714:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y172	2444325.95	1980 Mar 27 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W314	2444326.67	1980 Mar 28 0402:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W316	2444327.05	1980 Mar 28 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W317	2444327.10	1980 Mar 28 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W318	2444327.10	1980 Mar 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y173	2444327.15	1980 Mar 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W319	2444327.19	1980 Mar 28 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W320	2444327.30	1980 Mar 28 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W321	2444327.53	1980 Mar 29 0037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W322	2444330.05	1980 Mar 31 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W323	2444330.11	1980 Mar 31 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W324	2444330.19	1980 Mar 31 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W325	2444330.20	1980 Mar 31 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A14	2444330.38	1980 Mar 31 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y176	2444330.47	1980 Mar 31 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y177	2444330.49	1980 Mar 31 2351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W327	2444330.50	1980 Apr 1 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W326	2444330.50	1980 Mar 31 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W328	2444330.55	1980 Apr 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A15	2444331.39	1980 Apr 1 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W329	2444332.15	1980 Apr 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W330	2444332.15	1980 Apr 2 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W331	2444332.15	1980 Apr 2 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W332	2444332.19	1980 Apr 2 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y182	2444332.25	1980 Apr 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A16	2444332.39	1980 Apr 2 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W333	2444332.52	1980 Apr 3 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W334	2444333.15	1980 Apr 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W335	2444333.19	1980 Apr 3 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W336	2444333.38	1980 Apr 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W337	2444334.13	1980 Apr 4 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W338	2444334.14	1980 Apr 4 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W339	2444334.41	1980 Apr 4 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W340	2444334.64	1980 Apr 5 0322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W341	2444337.06	1980 Apr 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W342	2444337.14	1980 Apr 7 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W343	2444337.26	1980 Apr 7 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W344	2444337.71	1980 Apr 8 0506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W345	2444338.56	1980 Apr 9 0127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W347	2444339.06	1980 Apr 9 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W348	2444339.09	1980 Apr 9 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W349	2444339.10	1980 Apr 9 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W350	2444339.10	1980 Apr 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W351	2444339.13	1980 Apr 9 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y191	2444339.28	1980 Apr 9 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W353	2444339.38	1980 Apr 9 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W354	2444339.45	1980 Apr 9 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W355	2444339.50	1980 Apr 9 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W356	2444339.50	1980 Apr 10 0003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W357	2444340.32	1980 Apr 10 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W358	2444340.58	1980 Apr 11 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W359	2444340.60	1980 Apr 11 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W360	2444340.71	1980 Apr 11 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W361	2444340.75	1980 Apr 11 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W362	2444340.79	1980 Apr 11 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W363	2444340.85	1980 Apr 11 0820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W364	2444341.11	1980 Apr 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W365	2444341.15	1980 Apr 11 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W366	2444341.19	1980 Apr 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W367	2444341.30	1980 Apr 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A17	2444341.38	1980 Apr 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W368	2444341.55	1980 Apr 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W369	2444344.06	1980 Apr 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W370	2444344.11	1980 Apr 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y202	2444344.13	1980 Apr 14 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W371	2444344.17	1980 Apr 14 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W372	2444344.38	1980 Apr 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W373	2444344.66	1980 Apr 15 0355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W374	2444345.19	1980 Apr 15 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W376	2444345.62	1980 Apr 16 0254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W377	2444346.11	1980 Apr 16 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W378	2444346.11	1980 Apr 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W379	2444346.12	1980 Apr 16 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W380	2444346.19	1980 Apr 16 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W381	2444346.28	1980 Apr 16 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W382	2444346.40	1980 Apr 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W383	2444346.55	1980 Apr 17 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W384	2444347.11	1980 Apr 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W385	2444348.06	1980 Apr 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W386	2444348.11	1980 Apr 18 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W387	2444348.19	1980 Apr 18 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W388	2444348.38	1980 Apr 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W389	2444348.55	1980 Apr 19 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W391	2444351.11	1980 Apr 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W392	2444351.14	1980 Apr 21 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W393	2444351.17	1980 Apr 21 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W394	2444351.19	1980 Apr 21 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W395	2444351.38	1980 Apr 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W396	2444352.39	1980 Apr 22 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W397	2444352.47	1980 Apr 22 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W398	2444352.51	1980 Apr 23 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W399	2444352.51	1980 Apr 23 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W400	2444352.52	1980 Apr 23 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W401	2444352.68	1980 Apr 23 0417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W403	2444353.07	1980 Apr 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W404	2444353.09	1980 Apr 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W405	2444353.11	1980 Apr 23 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W406	2444353.20	1980 Apr 23 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y210	2444353.21	1980 Apr 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W407	2444353.22	1980 Apr 23 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W408	2444353.38	1980 Apr 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W409	2444353.63	1980 Apr 24 0303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W410	2444354.08	1980 Apr 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W411	2444354.38	1980 Apr 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W412	2444354.55	1980 Apr 25 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W414	2444355.06	1980 Apr 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W415	2444355.10	1980 Apr 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W416	2444355.32	1980 Apr 25 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W417	2444355.38	1980 Apr 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W418	2444358.06	1980 Apr 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W419	2444358.07	1980 Apr 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W420	2444358.15	1980 Apr 28 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W421	2444358.35	1980 Apr 28 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W422	2444358.55	1980 Apr 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W423	2444359.36	1980 Apr 29 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W425	2444360.06	1980 Apr 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y221	2444360.10	1980 Apr 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W426	2444360.14	1980 Apr 30 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W427	2444360.16	1980 Apr 30 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W428	2444360.51	1980 May 1 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W429	2444360.64	1980 May 1 0325:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W430	2444361.34	1980 May 1 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y225	2444361.48	1980 May 1 2327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W431	2444361.51	1980 May 2 0018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W432	2444361.52	1980 May 2 0022:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W433	2444361.52	1980 May 2 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W434	2444362.04	1980 May 2 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W435	2444362.07	1980 May 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W436	2444362.08	1980 May 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W437	2444362.28	1980 May 2 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A18	2444362.36	1980 May 2 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W438	2444362.39	1980 May 2 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W439	2444362.62	1980 May 3 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W440	2444365.06	1980 May 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W441	2444365.10	1980 May 5 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W442	2444365.12	1980 May 5 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W443	2444365.15	1980 May 5 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W444	2444365.15	1980 May 5 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W445	2444365.34	1980 May 5 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W446	2444365.37	1980 May 5 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W447	2444367.03	1980 May 7 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W448	2444367.06	1980 May 7 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W449	2444367.13	1980 May 7 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W450	2444367.16	1980 May 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W451	2444367.21	1980 May 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y239	2444367.25	1980 May 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W452	2444367.33	1980 May 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y240	2444367.37	1980 May 7 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W453	2444367.39	1980 May 7 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W455	2444368.33	1980 May 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W456	2444369.06	1980 May 9 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W457	2444369.10	1980 May 9 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W458	2444369.15	1980 May 9 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W459	2444369.18	1980 May 9 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y244	2444369.25	1980 May 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W460	2444369.35	1980 May 9 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W461	2444369.40	1980 May 9 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W462	2444372.06	1980 May 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W463	2444372.07	1980 May 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W464	2444372.12	1980 May 12 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W465	2444372.19	1980 May 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W467	2444372.26	1980 May 12 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A19	2444372.28	1980 May 12 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W468	2444372.33	1980 May 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W469	2444372.37	1980 May 12 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W470	2444372.63	1980 May 13 0308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W471	2444373.33	1980 May 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W473	2444374.07	1980 May 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W474	2444374.11	1980 May 14 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W475	2444374.17	1980 May 14 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W476	2444374.21	1980 May 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y254	2444374.26	1980 May 14 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y255	2444374.29	1980 May 14 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W477	2444374.31	1980 May 14 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W478	2444374.46	1980 May 14 2256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W479	2444375.21	1980 May 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W480	2444375.50	1980 May 16 0007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y256	2444375.51	1980 May 16 0011:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W481	2444375.51	1980 May 16 0017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W482	2444376.06	1980 May 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W483	2444376.10	1980 May 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W484	2444376.11	1980 May 16 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W485	2444376.17	1980 May 16 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W486	2444376.37	1980 May 16 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W488	2444379.10	1980 May 19 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W489	2444379.14	1980 May 19 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W490	2444379.18	1980 May 19 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W491	2444379.21	1980 May 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W492	2444379.27	1980 May 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W493	2444379.37	1980 May 19 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W494	2444379.59	1980 May 20 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W495	2444379.61	1980 May 20 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y262	2444380.07	1980 May 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W496	2444380.09	1980 May 20 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W498	2444380.63	1980 May 21 0303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W499	2444381.07	1980 May 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W500	2444381.10	1980 May 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W501	2444381.12	1980 May 21 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W502	2444381.26	1980 May 21 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W503	2444381.27	1980 May 21 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W504	2444381.41	1980 May 21 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W505	2444382.00	1980 May 22 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W506	2444382.41	1980 May 22 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W507	2444383.06	1980 May 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W508	2444383.07	1980 May 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W509	2444383.08	1980 May 23 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W510	2444383.08	1980 May 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W511	2444383.11	1980 May 23 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W513	2444386.28	1980 May 26 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y279	2444386.35	1980 May 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W514	2444386.38	1980 May 26 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y280	2444387.04	1980 May 27 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W516	2444387.10	1980 May 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W518	2444387.38	1980 May 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W521	2444387.62	1980 May 28 0247:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W522	2444388.06	1980 May 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W523	2444388.07	1980 May 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W524	2444388.10	1980 May 28 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W525	2444388.10	1980 May 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W526	2444388.11	1980 May 28 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y286	2444388.15	1980 May 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W527	2444388.16	1980 May 28 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W528	2444388.19	1980 May 28 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W530	2444389.15	1980 May 29 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y288	2444389.29	1980 May 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W531	2444389.61	1980 May 30 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W532	2444390.06	1980 May 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y289	2444390.08	1980 May 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W533	2444390.11	1980 May 30 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A20	2444390.13	1980 May 30 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W534	2444390.26	1980 May 30 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W537	2444392.93	1980 Jun 2 1018:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y292	2444393.07	1980 Jun 2 1343:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W539	2444393.07	1980 Jun 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W540	2444393.10	1980 Jun 2 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W541	2444393.16	1980 Jun 2 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W542	2444393.17	1980 Jun 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W543	2444393.52	1980 Jun 3 0033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W544	2444394.35	1980 Jun 3 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W546	2444395.04	1980 Jun 4 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A21	2444395.06	1980 Jun 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W547	2444395.08	1980 Jun 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W548	2444395.17	1980 Jun 4 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W549	2444395.19	1980 Jun 4 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W550	2444395.27	1980 Jun 4 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W551	2444396.21	1980 Jun 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W552	2444396.28	1980 Jun 5 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W553	2444396.33	1980 Jun 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y301	2444396.38	1980 Jun 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W554	2444396.40	1980 Jun 5 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W555	2444396.40	1980 Jun 5 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W556	2444396.94	1980 Jun 6 1031:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W557	2444397.06	1980 Jun 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W558	2444397.08	1980 Jun 6 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W559	2444397.14	1980 Jun 6 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W560	2444397.33	1980 Jun 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W561	2444397.39	1980 Jun 6 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W562	2444397.40	1980 Jun 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W563	2444397.63	1980 Jun 7 0307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W564	2444400.03	1980 Jun 9 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W565	2444400.07	1980 Jun 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W566	2444400.13	1980 Jun 9 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W567	2444400.14	1980 Jun 9 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W569	2444400.18	1980 Jun 9 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W570	2444400.19	1980 Jun 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W571	2444400.23	1980 Jun 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W573	2444400.26	1980 Jun 9 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A22	2444400.33	1980 Jun 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A23	2444400.37	1980 Jun 9 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W575	2444401.94	1980 Jun 11 1027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A24	2444402.06	1980 Jun 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W576	2444402.07	1980 Jun 11 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W577	2444402.07	1980 Jun 11 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W578	2444402.10	1980 Jun 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W579	2444402.11	1980 Jun 11 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W580	2444402.15	1980 Jun 11 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y306	2444402.19	1980 Jun 11 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y307	2444402.30	1980 Jun 11 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W581	2444402.33	1980 Jun 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y309	2444402.39	1980 Jun 11 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W582	2444402.41	1980 Jun 11 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W583	2444402.45	1980 Jun 11 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W584	2444403.12	1980 Jun 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W585	2444404.07	1980 Jun 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W586	2444404.13	1980 Jun 13 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W587	2444404.14	1980 Jun 13 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W588	2444404.15	1980 Jun 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W589	2444404.29	1980 Jun 13 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W590	2444404.38	1980 Jun 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W591	2444404.52	1980 Jun 14 0032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W592	2444404.71	1980 Jun 14 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W593	2444407.06	1980 Jun 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W594	2444407.07	1980 Jun 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W595	2444407.11	1980 Jun 16 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W596	2444407.19	1980 Jun 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W597	2444407.22	1980 Jun 16 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W598	2444407.38	1980 Jun 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W599	2444407.58	1980 Jun 17 0201:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W600	2444408.20	1980 Jun 17 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W601	2444409.06	1980 Jun 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W602	2444409.07	1980 Jun 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W603	2444409.10	1980 Jun 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W604	2444409.11	1980 Jun 18 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y314	2444409.17	1980 Jun 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W605	2444409.19	1980 Jun 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W607	2444409.33	1980 Jun 18 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W608	2444409.36	1980 Jun 18 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W609	2444410.53	1980 Jun 20 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W610	2444410.93	1980 Jun 20 1025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W611	2444411.07	1980 Jun 20 1341:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W612	2444411.07	1980 Jun 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y317	2444411.07	1980 Jun 20 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W613	2444411.09	1980 Jun 20 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W614	2444411.10	1980 Jun 20 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W615	2444411.25	1980 Jun 20 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W616	2444414.07	1980 Jun 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W617	2444414.13	1980 Jun 23 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W618	2444414.14	1980 Jun 23 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W619	2444414.35	1980 Jun 23 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W620	2444414.41	1980 Jun 23 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W621	2444414.60	1980 Jun 24 0222:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W622	2444415.12	1980 Jun 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W623	2444415.52	1980 Jun 25 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W625	2444415.93	1980 Jun 25 1015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y322	2444416.05	1980 Jun 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W626	2444416.09	1980 Jun 25 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W627	2444416.10	1980 Jun 25 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W628	2444416.18	1980 Jun 25 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W629	2444416.35	1980 Jun 25 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W630	2444416.62	1980 Jun 26 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W631	2444417.13	1980 Jun 26 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y325	2444417.81	1980 Jun 27 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W633	2444417.87	1980 Jun 27 0849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W634	2444418.08	1980 Jun 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W635	2444418.13	1980 Jun 27 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W636	2444418.24	1980 Jun 27 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W637	2444418.34	1980 Jun 27 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W639	2444421.08	1980 Jun 30 1348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W640	2444421.10	1980 Jun 30 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W641	2444421.16	1980 Jun 30 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W642	2444421.19	1980 Jun 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W643	2444421.33	1980 Jun 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W644	2444421.53	1980 Jul 1 0045:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W645	2444422.34	1980 Jul 1 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W646	2444423.06	1980 Jul 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A25	2444423.07	1980 Jul 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W647	2444423.10	1980 Jul 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W648	2444423.13	1980 Jul 2 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W649	2444423.14	1980 Jul 2 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y329	2444423.17	1980 Jul 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W650	2444423.24	1980 Jul 2 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W651	2444423.42	1980 Jul 2 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W652	2444423.50	1980 Jul 3 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W653	2444424.39	1980 Jul 3 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W654	2444425.35	1980 Jul 4 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W657	2444428.04	1980 Jul 7 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W658	2444428.06	1980 Jul 7 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W659	2444428.07	1980 Jul 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W660	2444428.10	1980 Jul 7 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W661	2444428.12	1980 Jul 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W662	2444428.25	1980 Jul 7 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W663	2444428.38	1980 Jul 7 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W664	2444428.40	1980 Jul 7 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W665	2444430.07	1980 Jul 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W666	2444430.07	1980 Jul 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y335	2444430.09	1980 Jul 9 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W667	2444430.12	1980 Jul 9 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W668	2444430.16	1980 Jul 9 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W669	2444430.18	1980 Jul 9 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A26	2444430.33	1980 Jul 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W670	2444431.33	1980 Jul 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W671	2444432.06	1980 Jul 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W672	2444432.10	1980 Jul 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A27	2444432.11	1980 Jul 11 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W673	2444432.14	1980 Jul 11 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W674	2444432.18	1980 Jul 11 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W675	2444432.25	1980 Jul 11 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A28	2444432.33	1980 Jul 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W676	2444432.55	1980 Jul 12 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W677	2444435.07	1980 Jul 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W678	2444435.07	1980 Jul 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W679	2444435.10	1980 Jul 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W680	2444435.13	1980 Jul 14 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W681	2444435.17	1980 Jul 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W682	2444435.24	1980 Jul 14 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A29	2444435.33	1980 Jul 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W683	2444436.33	1980 Jul 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W684	2444437.06	1980 Jul 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W686	2444437.10	1980 Jul 16 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W687	2444437.14	1980 Jul 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W688	2444437.17	1980 Jul 16 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y344	2444437.29	1980 Jul 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W689	2444437.36	1980 Jul 16 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W690	2444437.52	1980 Jul 17 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W692	2444438.17	1980 Jul 17 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W693	2444438.33	1980 Jul 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W694	2444439.10	1980 Jul 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W695	2444439.16	1980 Jul 18 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W696	2444439.30	1980 Jul 18 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W697	2444439.33	1980 Jul 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W698	2444442.06	1980 Jul 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W699	2444442.14	1980 Jul 21 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A30	2444442.33	1980 Jul 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W700	2444442.43	1980 Jul 21 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W702	2444444.06	1980 Jul 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W703	2444444.06	1980 Jul 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y351	2444444.11	1980 Jul 23 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W704	2444444.12	1980 Jul 23 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W705	2444444.14	1980 Jul 23 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W706	2444444.18	1980 Jul 23 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W708	2444444.25	1980 Jul 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y353	2444444.25	1980 Jul 23 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y354	2444444.29	1980 Jul 23 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W709	2444444.32	1980 Jul 23 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W710	2444444.33	1980 Jul 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W712	2444445.34	1980 Jul 24 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W715	2444446.06	1980 Jul 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W716	2444446.09	1980 Jul 25 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W717	2444446.11	1980 Jul 25 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W718	2444446.21	1980 Jul 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W719	2444446.33	1980 Jul 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y357	2444448.92	1980 Jul 28 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W720	2444449.08	1980 Jul 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W721	2444449.09	1980 Jul 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W722	2444449.15	1980 Jul 28 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W723	2444449.32	1980 Jul 28 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A31	2444450.53	1980 Jul 30 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W725	2444451.13	1980 Jul 30 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W726	2444451.21	1980 Jul 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y361	2444451.23	1980 Jul 30 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y362	2444451.25	1980 Jul 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W727	2444451.38	1980 Jul 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W728	2444451.40	1980 Jul 30 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W729	2444452.02	1980 Jul 31 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W730	2444453.06	1980 Aug 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W731	2444453.07	1980 Aug 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W732	2444453.11	1980 Aug 1 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W733	2444453.22	1980 Aug 1 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W734	2444453.25	1980 Aug 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W735	2444453.34	1980 Aug 1 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W736	2444456.04	1980 Aug 4 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W737	2444456.07	1980 Aug 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W738	2444456.11	1980 Aug 4 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W739	2444456.33	1980 Aug 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W740	2444456.38	1980 Aug 4 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W741	2444457.07	1980 Aug 5 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W742	2444457.33	1980 Aug 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W745	2444458.06	1980 Aug 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y366	2444458.08	1980 Aug 6 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W746	2444458.10	1980 Aug 6 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W747	2444458.14	1980 Aug 6 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y368	2444458.25	1980 Aug 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W748	2444458.33	1980 Aug 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W749	2444459.14	1980 Aug 7 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W750	2444459.33	1980 Aug 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W751	2444459.41	1980 Aug 7 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W752	2444460.13	1980 Aug 8 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W753	2444460.25	1980 Aug 8 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W754	2444460.33	1980 Aug 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W755	2444460.69	1980 Aug 9 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W756	2444463.07	1980 Aug 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W757	2444463.07	1980 Aug 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W758	2444463.10	1980 Aug 11 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W759	2444463.18	1980 Aug 11 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W760	2444463.21	1980 Aug 11 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W761	2444463.33	1980 Aug 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W762	2444464.33	1980 Aug 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W763	2444465.11	1980 Aug 13 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W764	2444465.14	1980 Aug 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W765	2444465.18	1980 Aug 13 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W766	2444465.27	1980 Aug 13 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y374	2444465.37	1980 Aug 13 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W767	2444465.41	1980 Aug 13 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y375	2444465.46	1980 Aug 13 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W768	2444465.50	1980 Aug 14 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W769	2444465.51	1980 Aug 14 0019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W770	2444465.65	1980 Aug 14 0342:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W771	2444465.98	1980 Aug 14 1137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W772	2444466.33	1980 Aug 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W773	2444467.07	1980 Aug 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W774	2444467.09	1980 Aug 15 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W775	2444467.10	1980 Aug 15 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W776	2444467.18	1980 Aug 15 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W777	2444467.19	1980 Aug 15 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W778	2444467.41	1980 Aug 15 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W779	2444470.05	1980 Aug 18 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W780	2444470.10	1980 Aug 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W781	2444470.12	1980 Aug 18 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W782	2444470.28	1980 Aug 18 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W783	2444470.40	1980 Aug 18 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W784	2444471.33	1980 Aug 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W785	2444471.53	1980 Aug 20 0042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W787	2444472.10	1980 Aug 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y382	2444472.11	1980 Aug 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W788	2444472.12	1980 Aug 20 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W789	2444472.14	1980 Aug 20 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W790	2444472.18	1980 Aug 20 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W792	2444472.19	1980 Aug 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W793	2444472.23	1980 Aug 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W795	2444473.40	1980 Aug 21 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W796	2444474.06	1980 Aug 22 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W797	2444474.07	1980 Aug 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W798	2444474.10	1980 Aug 22 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W799	2444474.11	1980 Aug 22 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W800	2444474.33	1980 Aug 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W801	2444474.40	1980 Aug 22 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y383	2444477.05	1980 Aug 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W802	2444477.07	1980 Aug 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W803	2444477.25	1980 Aug 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W804	2444477.34	1980 Aug 25 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W805	2444477.39	1980 Aug 25 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W806	2444477.59	1980 Aug 26 0208:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W807	2444478.35	1980 Aug 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y387	2444478.64	1980 Aug 27 0320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W809	2444478.70	1980 Aug 27 0449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W810	2444479.06	1980 Aug 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y390	2444479.25	1980 Aug 27 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W811	2444479.25	1980 Aug 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W812	2444479.33	1980 Aug 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W813	2444480.18	1980 Aug 28 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W814	2444481.06	1980 Aug 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W815	2444481.10	1980 Aug 29 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W816	2444481.16	1980 Aug 29 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W817	2444481.33	1980 Aug 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W818	2444484.12	1980 Sep 1 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W819	2444485.14	1980 Sep 2 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W820	2444485.32	1980 Sep 2 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W822	2444485.64	1980 Sep 3 0323:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W823	2444485.93	1980 Sep 3 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W824	2444486.06	1980 Sep 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y393	2444486.08	1980 Sep 3 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W826	2444486.11	1980 Sep 3 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W827	2444486.18	1980 Sep 3 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y397	2444486.25	1980 Sep 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W828	2444486.28	1980 Sep 3 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W830	2444486.35	1980 Sep 3 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W831	2444486.63	1980 Sep 4 0312:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W832	2444487.52	1980 Sep 5 0031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W834	2444487.89	1980 Sep 5 0921:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W835	2444488.05	1980 Sep 5 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W836	2444488.10	1980 Sep 5 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W837	2444488.27	1980 Sep 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A33	2444488.29	1980 Sep 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W838	2444488.33	1980 Sep 5 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W839	2444488.35	1980 Sep 5 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W840	2444488.35	1980 Sep 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A34	2444491.02	1980 Sep 8 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W841	2444491.04	1980 Sep 8 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W842	2444491.07	1980 Sep 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W843	2444491.14	1980 Sep 8 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W844	2444491.26	1980 Sep 8 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W845	2444491.40	1980 Sep 8 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W848	2444492.27	1980 Sep 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W849	2444492.42	1980 Sep 9 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W851	2444493.05	1980 Sep 10 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W852	2444493.05	1980 Sep 10 1310:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W853	2444493.07	1980 Sep 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y403	2444493.09	1980 Sep 10 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W854	2444493.19	1980 Sep 10 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y404	2444493.25	1980 Sep 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W855	2444493.28	1980 Sep 10 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W856	2444494.41	1980 Sep 11 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W857	2444494.67	1980 Sep 12 0406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W859	2444495.07	1980 Sep 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W860	2444495.14	1980 Sep 12 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W861	2444495.28	1980 Sep 12 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W863	2444497.56	1980 Sep 15 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W865	2444498.06	1980 Sep 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W866	2444498.07	1980 Sep 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W867	2444498.09	1980 Sep 15 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W868	2444498.13	1980 Sep 15 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W869	2444498.15	1980 Sep 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W870	2444498.18	1980 Sep 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W871	2444498.30	1980 Sep 15 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W872	2444498.34	1980 Sep 15 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W873	2444498.67	1980 Sep 16 0411:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W875	2444500.02	1980 Sep 17 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y408	2444500.08	1980 Sep 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W876	2444500.11	1980 Sep 17 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W877	2444500.19	1980 Sep 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y410	2444500.21	1980 Sep 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W878	2444500.25	1980 Sep 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W879	2444500.40	1980 Sep 17 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W880	2444501.12	1980 Sep 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W881	2444501.39	1980 Sep 18 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W883	2444502.05	1980 Sep 19 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W884	2444502.07	1980 Sep 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W885	2444502.12	1980 Sep 19 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W886	2444502.15	1980 Sep 19 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W887	2444502.16	1980 Sep 19 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y412	2444502.17	1980 Sep 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W888	2444502.19	1980 Sep 19 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W889	2444502.21	1980 Sep 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W890	2444502.33	1980 Sep 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W891	2444502.61	1980 Sep 20 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W892	2444505.11	1980 Sep 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W893	2444505.20	1980 Sep 22 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W894	2444505.43	1980 Sep 22 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W895	2444506.18	1980 Sep 23 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A36	2444506.33	1980 Sep 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W897	2444507.05	1980 Sep 24 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W898	2444507.08	1980 Sep 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W899	2444507.11	1980 Sep 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W900	2444507.13	1980 Sep 24 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W901	2444507.27	1980 Sep 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y417	2444507.30	1980 Sep 24 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W902	2444507.33	1980 Sep 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W903	2444508.28	1980 Sep 25 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W904	2444508.33	1980 Sep 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W905	2444509.00	1980 Sep 26 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W906	2444509.04	1980 Sep 26 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W907	2444509.12	1980 Sep 26 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W908	2444509.16	1980 Sep 26 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W909	2444509.21	1980 Sep 26 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W910	2444509.34	1980 Sep 26 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W911	2444512.06	1980 Sep 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W912	2444512.10	1980 Sep 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W913	2444512.12	1980 Sep 29 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W914	2444512.25	1980 Sep 29 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W915	2444512.26	1980 Sep 29 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W916	2444512.27	1980 Sep 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W917	2444512.38	1980 Sep 29 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A37	2444512.54	1980 Sep 30 0055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W918	2444512.60	1980 Sep 30 0218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W919	2444513.33	1980 Sep 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y419	2444514.07	1980 Oct 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y421	2444514.17	1980 Oct 1 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W924	2444514.20	1980 Oct 1 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W925	2444514.31	1980 Oct 1 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W926	2444514.43	1980 Oct 1 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W927	2444514.44	1980 Oct 1 2226:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W928	2444515.10	1980 Oct 2 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W929	2444515.26	1980 Oct 2 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W930	2444515.33	1980 Oct 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W932	2444516.04	1980 Oct 3 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W933	2444516.26	1980 Oct 3 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W934	2444519.10	1980 Oct 6 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W935	2444519.15	1980 Oct 6 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W937	2444519.39	1980 Oct 6 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W939	2444520.12	1980 Oct 7 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W940	2444520.14	1980 Oct 7 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W941	2444520.27	1980 Oct 7 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W942	2444520.52	1980 Oct 8 0026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W944	2444520.74	1980 Oct 8 0538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W946	2444520.90	1980 Oct 8 0938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W948	2444521.15	1980 Oct 8 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y430	2444521.60	1980 Oct 9 0222:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W949	2444522.03	1980 Oct 9 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W950	2444522.15	1980 Oct 9 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W952	2444523.43	1980 Oct 10 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W955	2444527.07	1980 Oct 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W956	2444527.15	1980 Oct 14 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W957	2444527.16	1980 Oct 14 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W959	2444528.04	1980 Oct 15 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W960	2444528.05	1980 Oct 15 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W961	2444528.10	1980 Oct 15 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W962	2444528.12	1980 Oct 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W963	2444528.15	1980 Oct 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W964	2444528.29	1980 Oct 15 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W966	2444528.39	1980 Oct 15 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W967	2444528.85	1980 Oct 16 0818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y440	2444529.12	1980 Oct 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W968	2444529.14	1980 Oct 16 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W971	2444529.31	1980 Oct 16 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W973	2444530.06	1980 Oct 17 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W974	2444530.07	1980 Oct 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W975	2444530.28	1980 Oct 17 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W977	2444530.59	1980 Oct 18 0213:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W980	2444533.03	1980 Oct 20 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W981	2444533.07	1980 Oct 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W982	2444533.15	1980 Oct 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y443	2444535.08	1980 Oct 22 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W986	2444535.17	1980 Oct 22 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y445	2444535.23	1980 Oct 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W988	2444535.28	1980 Oct 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W989	2444535.34	1980 Oct 22 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W990	2444536.18	1980 Oct 23 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W991	2444536.41	1980 Oct 23 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W993	2444537.11	1980 Oct 24 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W994	2444537.12	1980 Oct 24 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W995	2444537.15	1980 Oct 24 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y448	2444537.29	1980 Oct 24 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W996	2444537.32	1980 Oct 24 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A39	2444537.33	1980 Oct 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W997	2444537.40	1980 Oct 24 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W998	2444537.40	1980 Oct 24 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W999	2444540.05	1980 Oct 27 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1000	2444540.11	1980 Oct 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1001	2444540.32	1980 Oct 27 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1002	2444540.36	1980 Oct 27 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1003	2444541.21	1980 Oct 28 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1004	2444541.31	1980 Oct 28 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1005	2444541.38	1980 Oct 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1008	2444542.06	1980 Oct 29 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1009	2444542.19	1980 Oct 29 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1010	2444542.29	1980 Oct 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1011	2444542.30	1980 Oct 29 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1012	2444542.32	1980 Oct 29 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1013	2444543.42	1980 Oct 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y454	2444543.53	1980 Oct 31 0042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1014	2444544.03	1980 Oct 31 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1015	2444544.19	1980 Oct 31 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W01	2444607.05	1981 Jan 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W02	2444607.16	1981 Jan 2 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W03	2444610.11	1981 Jan 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W05	2444612.06	1981 Jan 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W06	2444613.04	1981 Jan 8 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W07	2444614.10	1981 Jan 9 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W08	2444617.05	1981 Jan 12 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W09	2444617.11	1981 Jan 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W10	2444617.28	1981 Jan 12 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W14	2444619.06	1981 Jan 14 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y19	2444619.38	1981 Jan 14 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W17	2444621.11	1981 Jan 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W18	2444621.12	1981 Jan 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W20	2444624.06	1981 Jan 19 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W22	2444624.50	1981 Jan 19 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W27	2444626.06	1981 Jan 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W30	2444626.28	1981 Jan 21 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y26	2444626.33	1981 Jan 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W32	2444627.13	1981 Jan 22 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W34	2444628.04	1981 Jan 23 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W36	2444628.12	1981 Jan 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W38	2444631.15	1981 Jan 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W39	2444631.15	1981 Jan 26 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W41	2444633.03	1981 Jan 28 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y36	2444633.11	1981 Jan 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W42	2444633.23	1981 Jan 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W43	2444633.50	1981 Jan 28 2353:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W44	2444635.06	1981 Jan 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W45	2444635.15	1981 Jan 30 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W46	2444638.11	1981 Feb 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W48	2444638.33	1981 Feb 2 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W49	2444639.04	1981 Feb 3 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W53	2444640.20	1981 Feb 4 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W54	2444640.21	1981 Feb 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W55	2444640.26	1981 Feb 4 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W56	2444640.38	1981 Feb 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y45	2444640.40	1981 Feb 4 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W57	2444640.42	1981 Feb 4 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W58	2444640.44	1981 Feb 4 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W59	2444640.92	1981 Feb 5 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W60	2444641.09	1981 Feb 5 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W61	2444641.19	1981 Feb 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W64	2444642.15	1981 Feb 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W65	2444642.37	1981 Feb 6 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W66	2444642.38	1981 Feb 6 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W67	2444642.43	1981 Feb 6 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W68	2444644.94	1981 Feb 9 1032:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A02	2444645.20	1981 Feb 9 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W69	2444645.24	1981 Feb 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W70	2444645.40	1981 Feb 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W71	2444645.43	1981 Feb 9 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W73	2444646.09	1981 Feb 10 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W74	2444646.49	1981 Feb 10 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W75	2444647.06	1981 Feb 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y53	2444647.11	1981 Feb 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y54	2444647.20	1981 Feb 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W76	2444647.23	1981 Feb 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W77	2444647.33	1981 Feb 11 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W78	2444647.33	1981 Feb 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W80	2444648.12	1981 Feb 12 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W81	2444648.41	1981 Feb 12 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W83	2444648.95	1981 Feb 13 1043:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W84	2444649.21	1981 Feb 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W85	2444649.41	1981 Feb 13 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W86	2444649.43	1981 Feb 13 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W87	2444653.12	1981 Feb 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W89	2444653.35	1981 Feb 17 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W93	2444653.94	1981 Feb 18 1031:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W94	2444654.19	1981 Feb 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W95	2444654.38	1981 Feb 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W96	2444654.38	1981 Feb 18 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W97	2444654.59	1981 Feb 19 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W98	2444655.19	1981 Feb 19 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W99	2444656.05	1981 Feb 20 1318:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y67	2444656.12	1981 Feb 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W102	2444656.25	1981 Feb 20 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y68	2444656.34	1981 Feb 20 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W103	2444656.40	1981 Feb 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W104	2444656.40	1981 Feb 20 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W106	2444658.93	1981 Feb 23 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W108	2444659.16	1981 Feb 23 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W109	2444659.20	1981 Feb 23 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W110	2444659.37	1981 Feb 23 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W111	2444659.38	1981 Feb 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W112	2444659.52	1981 Feb 24 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W114	2444660.25	1981 Feb 24 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W115	2444660.50	1981 Feb 25 0001:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W117	2444661.04	1981 Feb 25 1254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y75	2444661.10	1981 Feb 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W118	2444661.20	1981 Feb 25 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W119	2444661.57	1981 Feb 26 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W121	2444662.14	1981 Feb 26 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W123	2444662.32	1981 Feb 26 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W124	2444662.33	1981 Feb 26 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W126	2444662.44	1981 Feb 26 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y80	2444662.45	1981 Feb 26 2253:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y81	2444662.47	1981 Feb 26 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W127	2444662.94	1981 Feb 27 1030:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W128	2444663.10	1981 Feb 27 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W129	2444663.22	1981 Feb 27 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y83	2444663.39	1981 Feb 27 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W130	2444663.41	1981 Feb 27 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W131	2444663.42	1981 Feb 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W133	2444666.15	1981 Mar 2 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W134	2444666.21	1981 Mar 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W135	2444666.38	1981 Mar 2 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W136	2444666.38	1981 Mar 2 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W137	2444666.41	1981 Mar 2 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W138	2444667.04	1981 Mar 3 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W140	2444668.14	1981 Mar 4 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W141	2444668.21	1981 Mar 4 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A03	2444668.22	1981 Mar 4 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W142	2444668.38	1981 Mar 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W143	2444669.38	1981 Mar 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W144	2444670.05	1981 Mar 6 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W145	2444670.10	1981 Mar 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W146	2444670.15	1981 Mar 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W147	2444670.23	1981 Mar 6 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y91	2444670.26	1981 Mar 6 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W148	2444670.28	1981 Mar 6 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W149	2444670.39	1981 Mar 6 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W150	2444670.52	1981 Mar 7 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W152	2444673.11	1981 Mar 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W153	2444673.16	1981 Mar 9 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W154	2444673.20	1981 Mar 9 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W155	2444673.37	1981 Mar 9 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W156	2444673.38	1981 Mar 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W157	2444673.51	1981 Mar 10 0008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W158	2444674.25	1981 Mar 10 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W160	2444675.16	1981 Mar 11 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A04	2444675.16	1981 Mar 11 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W161	2444675.21	1981 Mar 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W162	2444675.38	1981 Mar 11 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W163	2444675.41	1981 Mar 11 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W164	2444676.29	1981 Mar 12 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W165	2444676.39	1981 Mar 12 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W166	2444677.06	1981 Mar 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W167	2444677.10	1981 Mar 13 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A05	2444677.40	1981 Mar 13 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W168	2444678.76	1981 Mar 15 0609:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W169	2444678.89	1981 Mar 15 0921:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W170	2444679.13	1981 Mar 15 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W171	2444680.06	1981 Mar 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W172	2444680.40	1981 Mar 16 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W173	2444681.10	1981 Mar 17 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W174	2444681.35	1981 Mar 17 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A06	2444681.39	1981 Mar 17 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W177	2444682.16	1981 Mar 18 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W178	2444682.22	1981 Mar 18 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W179	2444682.36	1981 Mar 18 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W180	2444682.39	1981 Mar 18 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W182	2444683.35	1981 Mar 19 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W183	2444684.31	1981 Mar 20 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W184	2444684.38	1981 Mar 20 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W185	2444684.39	1981 Mar 20 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W186	2444684.41	1981 Mar 20 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W187	2444687.11	1981 Mar 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W189	2444687.38	1981 Mar 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W190	2444688.37	1981 Mar 24 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y106	2444688.39	1981 Mar 24 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W191	2444688.41	1981 Mar 24 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W192	2444689.04	1981 Mar 25 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W193	2444689.07	1981 Mar 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y109	2444689.11	1981 Mar 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W194	2444689.19	1981 Mar 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y111	2444689.25	1981 Mar 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W195	2444689.27	1981 Mar 25 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W196	2444689.40	1981 Mar 25 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W197	2444689.43	1981 Mar 25 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W200	2444690.13	1981 Mar 26 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W202	2444690.37	1981 Mar 26 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W203	2444690.38	1981 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W205	2444691.12	1981 Mar 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W206	2444691.16	1981 Mar 27 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W207	2444691.20	1981 Mar 27 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W208	2444691.38	1981 Mar 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y119	2444694.03	1981 Mar 30 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W209	2444694.19	1981 Mar 30 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W210	2444694.30	1981 Mar 30 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W211	2444694.38	1981 Mar 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A07	2444694.40	1981 Mar 30 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W212	2444694.43	1981 Mar 30 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W213	2444695.32	1981 Mar 31 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W214	2444695.51	1981 Apr 1 0015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y124	2444695.92	1981 Apr 1 1009:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W215	2444695.99	1981 Apr 1 1140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W216	2444696.26	1981 Apr 1 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y129	2444696.31	1981 Apr 1 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W217	2444696.46	1981 Apr 1 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W218	2444697.11	1981 Apr 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W220	2444698.16	1981 Apr 3 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W221	2444698.20	1981 Apr 3 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W222	2444698.30	1981 Apr 3 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W223	2444698.35	1981 Apr 3 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W224	2444698.37	1981 Apr 3 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W226	2444701.07	1981 Apr 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W227	2444701.11	1981 Apr 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W228	2444701.33	1981 Apr 6 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W229	2444702.15	1981 Apr 7 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W230	2444702.35	1981 Apr 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W231	2444702.38	1981 Apr 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W234	2444703.10	1981 Apr 8 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W236	2444703.26	1981 Apr 8 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W237	2444703.35	1981 Apr 8 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W238	2444704.15	1981 Apr 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W239	2444704.19	1981 Apr 9 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W240	2444704.71	1981 Apr 10 0506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W241	2444705.04	1981 Apr 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W242	2444705.19	1981 Apr 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W243	2444705.32	1981 Apr 10 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W244	2444705.33	1981 Apr 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W245	2444705.39	1981 Apr 10 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W246	2444706.75	1981 Apr 12 0556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W247	2444707.03	1981 Apr 12 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y136	2444707.06	1981 Apr 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W248	2444707.10	1981 Apr 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y137	2444707.12	1981 Apr 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W249	2444707.16	1981 Apr 12 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W250	2444707.21	1981 Apr 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W251	2444707.21	1981 Apr 12 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W252	2444707.38	1981 Apr 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W253	2444707.42	1981 Apr 12 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W254	2444707.50	1981 Apr 13 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W255	2444707.97	1981 Apr 13 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W256	2444708.00	1981 Apr 13 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y138	2444708.12	1981 Apr 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W257	2444708.12	1981 Apr 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y139	2444708.13	1981 Apr 13 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W258	2444708.14	1981 Apr 13 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W259	2444708.17	1981 Apr 13 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W260	2444708.21	1981 Apr 13 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W261	2444708.37	1981 Apr 13 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W262	2444708.38	1981 Apr 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W263	2444708.54	1981 Apr 14 0052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W264	2444708.89	1981 Apr 14 0925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y140	2444708.93	1981 Apr 14 1017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W265	2444709.00	1981 Apr 14 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W266	2444709.08	1981 Apr 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W267	2444709.12	1981 Apr 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W268	2444709.18	1981 Apr 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y141	2444709.21	1981 Apr 14 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y142	2444709.21	1981 Apr 14 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W269	2444709.23	1981 Apr 14 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W270	2444709.23	1981 Apr 14 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W271	2444709.23	1981 Apr 14 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y143	2444709.26	1981 Apr 14 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y144	2444709.28	1981 Apr 14 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W272	2444709.30	1981 Apr 14 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W273	2444709.31	1981 Apr 14 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y145	2444709.33	1981 Apr 14 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y146	2444709.35	1981 Apr 14 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W275	2444709.38	1981 Apr 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W276	2444709.50	1981 Apr 15 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W278	2444710.06	1981 Apr 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y149	2444710.11	1981 Apr 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W279	2444710.27	1981 Apr 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W280	2444710.37	1981 Apr 15 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A08	2444710.38	1981 Apr 15 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W281	2444712.06	1981 Apr 17 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W282	2444712.35	1981 Apr 17 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W283	2444712.38	1981 Apr 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W284	2444715.37	1981 Apr 20 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y151	2444715.37	1981 Apr 20 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W285	2444715.38	1981 Apr 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W286	2444716.11	1981 Apr 21 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W287	2444716.35	1981 Apr 21 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y156	2444717.09	1981 Apr 22 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W291	2444717.19	1981 Apr 22 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W292	2444717.20	1981 Apr 22 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y157	2444717.37	1981 Apr 22 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W293	2444717.39	1981 Apr 22 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W294	2444718.12	1981 Apr 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W295	2444719.07	1981 Apr 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W296	2444719.11	1981 Apr 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W297	2444719.21	1981 Apr 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W298	2444719.38	1981 Apr 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W299	2444721.38	1981 Apr 26 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W301	2444722.06	1981 Apr 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W302	2444722.07	1981 Apr 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W304	2444722.16	1981 Apr 27 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W307	2444722.34	1981 Apr 27 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W309	2444724.08	1981 Apr 29 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y162	2444724.09	1981 Apr 29 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W310	2444724.16	1981 Apr 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W311	2444724.18	1981 Apr 29 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W312	2444724.25	1981 Apr 29 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W313	2444724.33	1981 Apr 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W314	2444724.37	1981 Apr 29 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W315	2444725.37	1981 Apr 30 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A09	2444726.15	1981 May 1 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W317	2444726.53	1981 May 2 0038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W318	2444729.16	1981 May 4 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W319	2444729.29	1981 May 4 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W320	2444729.43	1981 May 4 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W321	2444729.93	1981 May 5 1023:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W322	2444730.10	1981 May 5 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W324	2444731.16	1981 May 6 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y170	2444732.16	1981 May 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W325	2444732.19	1981 May 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W326	2444732.53	1981 May 8 0042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W328	2444733.07	1981 May 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W329	2444733.15	1981 May 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W330	2444733.35	1981 May 8 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W331	2444733.37	1981 May 8 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W332	2444736.07	1981 May 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W333	2444736.07	1981 May 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W334	2444736.17	1981 May 11 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W335	2444736.19	1981 May 11 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W338	2444737.95	1981 May 13 1043:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W339	2444738.06	1981 May 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W340	2444738.14	1981 May 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y176	2444738.16	1981 May 13 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W341	2444738.16	1981 May 13 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A10	2444738.19	1981 May 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y178	2444738.27	1981 May 13 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W342	2444738.29	1981 May 13 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W343	2444739.04	1981 May 14 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W344	2444739.30	1981 May 14 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W345	2444739.33	1981 May 14 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W347	2444740.34	1981 May 15 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W348	2444740.39	1981 May 15 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W349	2444742.94	1981 May 18 1030:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W350	2444743.05	1981 May 18 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W353	2444744.21	1981 May 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y187	2444745.07	1981 May 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W356	2444745.07	1981 May 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W358	2444745.15	1981 May 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W359	2444745.23	1981 May 20 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W360	2444745.33	1981 May 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W361	2444746.41	1981 May 21 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A11	2444747.05	1981 May 22 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W363	2444747.17	1981 May 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y196	2444747.37	1981 May 22 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W364	2444747.39	1981 May 22 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W365	2444747.39	1981 May 22 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W367	2444750.15	1981 May 25 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W368	2444750.34	1981 May 25 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W370	2444751.35	1981 May 26 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W371	2444751.40	1981 May 26 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W374	2444751.94	1981 May 27 1027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W376	2444752.10	1981 May 27 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y198	2444752.17	1981 May 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W378	2444752.17	1981 May 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y200	2444752.24	1981 May 27 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W379	2444752.27	1981 May 27 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W380	2444752.37	1981 May 27 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W381	2444752.54	1981 May 28 0055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W382	2444753.12	1981 May 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W384	2444754.04	1981 May 29 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W385	2444754.07	1981 May 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W386	2444754.14	1981 May 29 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W387	2444754.15	1981 May 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W388	2444754.53	1981 May 30 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W389	2444754.53	1981 May 30 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W390	2444757.06	1981 Jun 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W391	2444757.07	1981 Jun 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W392	2444757.17	1981 Jun 1 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W393	2444757.33	1981 Jun 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W394	2444757.37	1981 Jun 1 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W395	2444758.16	1981 Jun 2 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y205	2444759.15	1981 Jun 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W397	2444759.21	1981 Jun 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W398	2444759.31	1981 Jun 3 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W399	2444759.41	1981 Jun 3 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W400	2444759.42	1981 Jun 3 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W401	2444759.90	1981 Jun 4 0943:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W402	2444760.10	1981 Jun 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W404	2444761.03	1981 Jun 5 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W405	2444761.09	1981 Jun 5 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y208	2444761.31	1981 Jun 5 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W406	2444761.33	1981 Jun 5 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W407	2444761.33	1981 Jun 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W408	2444764.40	1981 Jun 8 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W409	2444764.90	1981 Jun 9 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W410	2444765.10	1981 Jun 9 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W411	2444765.23	1981 Jun 9 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W414	2444766.06	1981 Jun 10 1331:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y215	2444766.08	1981 Jun 10 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W415	2444766.22	1981 Jun 10 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W416	2444766.33	1981 Jun 10 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W417	2444767.04	1981 Jun 11 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W418	2444767.37	1981 Jun 11 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W420	2444768.40	1981 Jun 12 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W421	2444771.53	1981 Jun 16 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W422	2444772.03	1981 Jun 16 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A12	2444772.25	1981 Jun 16 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A13	2444773.04	1981 Jun 17 1303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y235	2444773.07	1981 Jun 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y238	2444773.33	1981 Jun 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W425	2444773.35	1981 Jun 17 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W426	2444773.40	1981 Jun 17 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W427	2444773.89	1981 Jun 18 0925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y240	2444774.17	1981 Jun 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A14	2444774.20	1981 Jun 18 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W428	2444774.34	1981 Jun 18 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W430	2444775.07	1981 Jun 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W435	2444778.04	1981 Jun 22 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W436	2444778.10	1981 Jun 22 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W437	2444778.33	1981 Jun 22 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W438	2444778.39	1981 Jun 22 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W444	2444780.09	1981 Jun 24 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W445	2444780.10	1981 Jun 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W446	2444780.17	1981 Jun 24 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W447	2444780.19	1981 Jun 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y253	2444780.20	1981 Jun 24 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W448	2444780.22	1981 Jun 24 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W449	2444780.23	1981 Jun 24 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W450	2444781.33	1981 Jun 25 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W452	2444781.91	1981 Jun 26 0944:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W453	2444782.10	1981 Jun 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W454	2444782.19	1981 Jun 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W456	2444785.06	1981 Jun 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A17	2444785.07	1981 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W457	2444785.42	1981 Jun 29 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W458	2444786.19	1981 Jun 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W459	2444786.40	1981 Jun 30 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W460	2444786.89	1981 Jul 1 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y263	2444787.39	1981 Jul 1 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y264	2444787.40	1981 Jul 1 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W461	2444787.41	1981 Jul 1 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W462	2444787.42	1981 Jul 1 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W463	2444787.52	1981 Jul 2 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W465	2444788.08	1981 Jul 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W466	2444788.19	1981 Jul 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W467	2444789.04	1981 Jul 3 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W468	2444792.07	1981 Jul 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W469	2444792.09	1981 Jul 6 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W470	2444792.19	1981 Jul 6 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W471	2444792.37	1981 Jul 6 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W472	2444793.52	1981 Jul 8 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y271	2444794.16	1981 Jul 8 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W475	2444794.19	1981 Jul 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W476	2444794.22	1981 Jul 8 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W477	2444794.25	1981 Jul 8 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W478	2444794.40	1981 Jul 8 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W479	2444795.04	1981 Jul 9 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W480	2444795.06	1981 Jul 9 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W481	2444795.11	1981 Jul 9 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W482	2444795.40	1981 Jul 9 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W483	2444796.06	1981 Jul 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W484	2444796.21	1981 Jul 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W485	2444800.10	1981 Jul 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W486	2444800.19	1981 Jul 14 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W487	2444801.06	1981 Jul 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W488	2444801.07	1981 Jul 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y278	2444802.27	1981 Jul 16 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W489	2444802.29	1981 Jul 16 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W490	2444802.43	1981 Jul 16 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W491	2444803.07	1981 Jul 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W493	2444803.37	1981 Jul 17 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W494	2444803.39	1981 Jul 17 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W495	2444803.41	1981 Jul 17 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W496	2444806.04	1981 Jul 20 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W497	2444806.07	1981 Jul 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W498	2444806.37	1981 Jul 20 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W499	2444807.91	1981 Jul 22 0947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W500	2444808.08	1981 Jul 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W501	2444808.19	1981 Jul 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W502	2444808.40	1981 Jul 22 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y286	2444809.10	1981 Jul 23 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W505	2444809.33	1981 Jul 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W506	2444809.35	1981 Jul 23 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W507	2444810.07	1981 Jul 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W508	2444810.07	1981 Jul 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y289	2444810.39	1981 Jul 24 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W510	2444810.42	1981 Jul 24 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W511	2444810.53	1981 Jul 25 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W512	2444812.90	1981 Jul 27 0933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A20	2444813.10	1981 Jul 27 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W513	2444813.33	1981 Jul 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W514	2444813.35	1981 Jul 27 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W515	2444813.39	1981 Jul 27 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W516	2444815.08	1981 Jul 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W517	2444815.19	1981 Jul 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W518	2444815.27	1981 Jul 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W519	2444815.55	1981 Jul 30 0104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W520	2444816.44	1981 Jul 30 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W521	2444817.04	1981 Jul 31 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W522	2444817.08	1981 Jul 31 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W524	2444817.11	1981 Jul 31 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W525	2444817.35	1981 Jul 31 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W526	2444817.39	1981 Jul 31 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W527	2444820.07	1981 Aug 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W528	2444821.22	1981 Aug 4 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W529	2444821.36	1981 Aug 4 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W530	2444821.90	1981 Aug 5 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W531	2444822.03	1981 Aug 5 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W532	2444822.06	1981 Aug 5 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y307	2444822.21	1981 Aug 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W533	2444822.23	1981 Aug 5 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W535	2444823.33	1981 Aug 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W536	2444824.07	1981 Aug 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W537	2444824.19	1981 Aug 7 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W538	2444824.35	1981 Aug 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W539	2444824.42	1981 Aug 7 2208:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W541	2444827.05	1981 Aug 10 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W542	2444827.19	1981 Aug 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W543	2444827.38	1981 Aug 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W544	2444828.20	1981 Aug 11 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y314	2444829.21	1981 Aug 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y315	2444829.22	1981 Aug 12 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y316	2444829.64	1981 Aug 13 0322:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W545	2444829.70	1981 Aug 13 0444:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y317	2444830.24	1981 Aug 13 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W546	2444830.26	1981 Aug 13 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W547	2444830.40	1981 Aug 13 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W548	2444830.91	1981 Aug 14 0945:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W549	2444831.06	1981 Aug 14 1320:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W550	2444831.20	1981 Aug 14 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W551	2444834.04	1981 Aug 17 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W552	2444834.19	1981 Aug 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W553	2444834.38	1981 Aug 17 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W554	2444834.90	1981 Aug 18 0943:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W555	2444835.19	1981 Aug 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W556	2444835.35	1981 Aug 18 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y322	2444836.21	1981 Aug 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W557	2444836.26	1981 Aug 19 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W559	2444838.07	1981 Aug 21 1342:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W560	2444838.19	1981 Aug 21 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W561	2444838.37	1981 Aug 21 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W562	2444838.53	1981 Aug 22 0042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W563	2444841.07	1981 Aug 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W564	2444841.07	1981 Aug 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W565	2444841.21	1981 Aug 24 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W566	2444841.43	1981 Aug 24 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y327	2444843.10	1981 Aug 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y328	2444843.28	1981 Aug 26 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y329	2444843.33	1981 Aug 26 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W567	2444843.35	1981 Aug 26 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W568	2444843.36	1981 Aug 26 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W569	2444843.39	1981 Aug 26 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W570	2444844.59	1981 Aug 28 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W571	2444845.07	1981 Aug 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W572	2444847.91	1981 Aug 31 0955:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W573	2444848.07	1981 Aug 31 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W574	2444848.22	1981 Aug 31 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W575	2444848.35	1981 Aug 31 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W576	2444848.36	1981 Aug 31 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W577	2444849.35	1981 Sep 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W578	2444849.56	1981 Sep 2 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y330	2444850.05	1981 Sep 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W580	2444850.07	1981 Sep 2 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y332	2444850.25	1981 Sep 2 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W583	2444850.27	1981 Sep 2 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W585	2444852.06	1981 Sep 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W586	2444852.11	1981 Sep 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W587	2444852.12	1981 Sep 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A21	2444852.23	1981 Sep 4 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W588	2444852.23	1981 Sep 4 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y335	2444852.40	1981 Sep 4 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W589	2444852.42	1981 Sep 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W590	2444852.42	1981 Sep 4 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W591	2444856.04	1981 Sep 8 1302:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A23	2444856.31	1981 Sep 8 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W592	2444856.35	1981 Sep 8 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W593	2444856.37	1981 Sep 8 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W594	2444856.43	1981 Sep 8 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W596	2444856.90	1981 Sep 9 0934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W598	2444857.25	1981 Sep 9 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W599	2444858.30	1981 Sep 10 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W600	2444858.43	1981 Sep 10 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W602	2444859.07	1981 Sep 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W603	2444859.17	1981 Sep 11 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W604	2444859.32	1981 Sep 11 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W605	2444859.74	1981 Sep 12 0544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W606	2444859.87	1981 Sep 12 0854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A24	2444861.17	1981 Sep 13 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W607	2444861.17	1981 Sep 13 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W609	2444862.04	1981 Sep 14 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W610	2444862.07	1981 Sep 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A25	2444862.16	1981 Sep 14 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W611	2444862.35	1981 Sep 14 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W612	2444863.12	1981 Sep 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W613	2444863.14	1981 Sep 15 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W614	2444863.42	1981 Sep 15 2207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W616	2444864.07	1981 Sep 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W617	2444864.22	1981 Sep 16 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W618	2444865.25	1981 Sep 17 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W619	2444865.40	1981 Sep 17 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y344	2444866.07	1981 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W620	2444869.14	1981 Sep 21 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W621	2444869.43	1981 Sep 21 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W622	2444869.44	1981 Sep 21 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W623	2444869.90	1981 Sep 22 0938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W624	2444870.06	1981 Sep 22 1331:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W625	2444870.12	1981 Sep 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y346	2444870.35	1981 Sep 22 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W627	2444870.39	1981 Sep 22 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W628	2444870.39	1981 Sep 22 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W629	2444871.05	1981 Sep 23 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W630	2444871.29	1981 Sep 23 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W631	2444871.50	1981 Sep 24 0001:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W633	2444873.05	1981 Sep 25 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W634	2444876.05	1981 Sep 28 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W635	2444876.08	1981 Sep 28 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W636	2444876.12	1981 Sep 28 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W637	2444876.29	1981 Sep 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W638	2444876.33	1981 Sep 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W639	2444877.08	1981 Sep 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W640	2444877.54	1981 Sep 30 0051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y350	2444878.07	1981 Sep 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W643	2444878.08	1981 Sep 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W644	2444878.15	1981 Sep 30 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W645	2444878.42	1981 Sep 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y354	2444879.13	1981 Oct 1 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W646	2444879.16	1981 Oct 1 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W647	2444879.33	1981 Oct 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W648	2444879.39	1981 Oct 1 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W650	2444880.06	1981 Oct 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W651	2444880.06	1981 Oct 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W652	2444880.12	1981 Oct 2 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W653	2444880.36	1981 Oct 2 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W654	2444881.73	1981 Oct 4 0535:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W655	2444881.89	1981 Oct 4 0922:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W656	2444882.90	1981 Oct 5 0941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W657	2444883.10	1981 Oct 5 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W659	2444883.19	1981 Oct 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W660	2444883.35	1981 Oct 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W661	2444884.04	1981 Oct 6 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W662	2444884.38	1981 Oct 6 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W665	2444885.31	1981 Oct 7 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W666	2444885.33	1981 Oct 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W667	2444887.07	1981 Oct 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W668	2444887.15	1981 Oct 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W669	2444887.33	1981 Oct 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W670	2444890.04	1981 Oct 12 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W671	2444891.07	1981 Oct 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W672	2444891.14	1981 Oct 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W673	2444891.15	1981 Oct 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W674	2444891.40	1981 Oct 13 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W675	2444891.90	1981 Oct 14 0935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W676	2444892.01	1981 Oct 14 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y363	2444892.10	1981 Oct 14 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W677	2444892.45	1981 Oct 14 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W678	2444892.48	1981 Oct 14 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W679	2444894.06	1981 Oct 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y367	2444894.35	1981 Oct 16 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W680	2444894.37	1981 Oct 16 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W681	2444897.22	1981 Oct 19 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W682	2444898.09	1981 Oct 20 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W683	2444898.28	1981 Oct 20 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W685	2444899.05	1981 Oct 21 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W686	2444899.12	1981 Oct 21 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W687	2444899.12	1981 Oct 21 1500:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W688	2444899.15	1981 Oct 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y374	2444899.30	1981 Oct 21 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W689	2444900.21	1981 Oct 22 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W690	2444901.04	1981 Oct 23 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W691	2444901.10	1981 Oct 23 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y375	2444901.24	1981 Oct 23 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W692	2444904.27	1981 Oct 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W693	2444904.41	1981 Oct 26 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W694	2444905.11	1981 Oct 27 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W698	2444905.92	1981 Oct 28 1004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W699	2444906.09	1981 Oct 28 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y381	2444906.25	1981 Oct 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W700	2444906.26	1981 Oct 28 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W701	2444906.27	1981 Oct 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A27	2444906.38	1981 Oct 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W702	2444906.48	1981 Oct 28 2326:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W703	2444908.06	1981 Oct 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W704	2444908.11	1981 Oct 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W705	2444908.22	1981 Oct 30 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W706	2444908.39	1981 Oct 30 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W707	2444911.26	1981 Nov 2 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W708	2444911.34	1981 Nov 2 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W709	2444911.43	1981 Nov 2 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W710	2444912.04	1981 Nov 3 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W711	2444913.07	1981 Nov 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W712	2444913.10	1981 Nov 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W713	2444913.19	1981 Nov 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W714	2444913.44	1981 Nov 4 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W715	2444913.89	1981 Nov 5 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W717	2444915.08	1981 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W718	2444915.18	1981 Nov 6 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y389	2444915.38	1981 Nov 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W719	2444915.40	1981 Nov 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W720	2444918.04	1981 Nov 9 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W721	2444918.08	1981 Nov 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W722	2444919.26	1981 Nov 10 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A28	2444920.40	1981 Nov 11 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y397	2444921.08	1981 Nov 12 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W725	2444921.10	1981 Nov 12 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W726	2444921.19	1981 Nov 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y398	2444921.26	1981 Nov 12 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W728	2444921.27	1981 Nov 12 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W729	2444921.27	1981 Nov 12 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y399	2444921.29	1981 Nov 12 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W730	2444921.30	1981 Nov 12 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W731	2444921.33	1981 Nov 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y400	2444922.10	1981 Nov 13 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W732	2444922.18	1981 Nov 13 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W733	2444922.27	1981 Nov 13 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y401	2444922.30	1981 Nov 13 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W734	2444922.35	1981 Nov 13 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y402	2444922.39	1981 Nov 13 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W735	2444922.40	1981 Nov 13 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W736	2444923.17	1981 Nov 14 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W737	2444923.28	1981 Nov 14 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y403	2444923.35	1981 Nov 14 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y404	2444923.35	1981 Nov 14 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W738	2444923.35	1981 Nov 14 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W739	2444923.36	1981 Nov 14 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W740	2444923.37	1981 Nov 14 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y405	2444923.37	1981 Nov 14 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W741	2444923.38	1981 Nov 14 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W742	2444923.40	1981 Nov 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W743	2444923.40	1981 Nov 14 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W744	2444923.41	1981 Nov 14 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-W745	2444923.42	1981 Nov 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y406	2444923.43	1981 Nov 14 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W746	2444923.47	1981 Nov 14 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W747	2444925.18	1981 Nov 16 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W748	2444925.38	1981 Nov 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W749	2444926.19	1981 Nov 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W751	2444926.89	1981 Nov 18 0927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W752	2444927.09	1981 Nov 18 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W753	2444927.14	1981 Nov 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W754	2444927.29	1981 Nov 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W755	2444927.44	1981 Nov 18 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W757	2444929.04	1981 Nov 20 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W758	2444929.11	1981 Nov 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W759	2444929.19	1981 Nov 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W760	2444929.38	1981 Nov 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W761	2444932.06	1981 Nov 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A30	2444932.10	1981 Nov 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W762	2444932.11	1981 Nov 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W763	2444932.19	1981 Nov 23 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W764	2444932.34	1981 Nov 23 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y414	2444932.37	1981 Nov 23 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W765	2444932.39	1981 Nov 23 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W768	2444934.06	1981 Nov 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W769	2444934.11	1981 Nov 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A31	2444934.21	1981 Nov 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y418	2444934.23	1981 Nov 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W770	2444934.25	1981 Nov 25 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W771	2444934.58	1981 Nov 26 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W772	2444936.19	1981 Nov 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W773	2444939.11	1981 Nov 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W774	2444939.19	1981 Nov 30 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W775	2444939.36	1981 Nov 30 2037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W776	2444939.38	1981 Nov 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W777	2444940.04	1981 Dec 1 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W778	2444941.06	1981 Dec 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y423	2444941.08	1981 Dec 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W779	2444941.27	1981 Dec 2 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W780	2444941.38	1981 Dec 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W781	2444941.45	1981 Dec 2 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W783	2444942.27	1981 Dec 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W784	2444942.30	1981 Dec 3 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W786	2444943.19	1981 Dec 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W787	2444943.28	1981 Dec 4 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y425	2444943.38	1981 Dec 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W788	2444943.40	1981 Dec 4 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W789	2444943.40	1981 Dec 4 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W790	2444946.04	1981 Dec 7 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W791	2444946.11	1981 Dec 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W792	2444946.19	1981 Dec 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W793	2444947.19	1981 Dec 8 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A32	2444947.22	1981 Dec 8 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W796	2444948.25	1981 Dec 9 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W797	2444948.28	1981 Dec 9 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W798	2444948.30	1981 Dec 9 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W799	2444948.89	1981 Dec 10 0921:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W800	2444949.09	1981 Dec 10 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W802	2444950.21	1981 Dec 11 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y433	2444950.38	1981 Dec 11 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W803	2444950.40	1981 Dec 11 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W804	2444953.08	1981 Dec 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W805	2444953.16	1981 Dec 14 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W806	2444953.38	1981 Dec 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W807	2444954.19	1981 Dec 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y436	2444955.11	1981 Dec 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W810	2444955.14	1981 Dec 16 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W811	2444955.36	1981 Dec 16 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y437	2444955.38	1981 Dec 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W812	2444955.39	1981 Dec 16 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W813	2444955.44	1981 Dec 16 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W814	2444956.22	1981 Dec 17 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W815	2444956.36	1981 Dec 17 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A34	2444957.11	1981 Dec 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-A35	2444957.42	1981 Dec 18 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W816	2444960.11	1981 Dec 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W817	2444960.16	1981 Dec 21 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W818	2444960.19	1981 Dec 21 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W819	2444960.42	1981 Dec 21 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W820	2444961.23	1981 Dec 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y442	2444962.10	1981 Dec 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W822	2444962.15	1981 Dec 23 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W823	2444962.45	1981 Dec 23 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W824	2444963.15	1981 Dec 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W825	2444968.04	1981 Dec 29 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W826	2444969.44	1981 Dec 30 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-Y449	2444970.11	1981 Dec 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1981-W827	2444970.16	1981 Dec 31 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W02	2444974.04	1982 Jan 4 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W03	2444974.30	1982 Jan 4 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W04	2444974.42	1982 Jan 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W05	2444974.89	1982 Jan 5 0919:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y07	2444976.31	1982 Jan 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W08	2444976.38	1982 Jan 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y08	2444976.42	1982 Jan 6 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W09	2444976.44	1982 Jan 6 2235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W10	2444976.47	1982 Jan 6 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W13	2444978.12	1982 Jan 8 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W14	2444981.04	1982 Jan 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W15	2444981.11	1982 Jan 11 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W16	2444981.31	1982 Jan 11 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W17	2444981.38	1982 Jan 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W18	2444981.38	1982 Jan 11 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W19	2444982.21	1982 Jan 12 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W22	2444982.90	1982 Jan 13 0933:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y11	2444983.10	1982 Jan 13 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W23	2444983.19	1982 Jan 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y12	2444983.26	1982 Jan 13 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W24	2444983.33	1982 Jan 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W25	2444983.36	1982 Jan 13 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W26	2444983.38	1982 Jan 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W27	2444983.38	1982 Jan 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W28	2444983.44	1982 Jan 13 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y16	2444985.06	1982 Jan 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y17	2444987.15	1982 Jan 17 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W33	2444987.19	1982 Jan 17 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W35	2444988.10	1982 Jan 18 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W36	2444988.15	1982 Jan 18 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W37	2444988.29	1982 Jan 18 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W38	2444988.38	1982 Jan 18 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W39	2444989.14	1982 Jan 19 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W44	2444990.19	1982 Jan 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W45	2444990.33	1982 Jan 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W46	2444990.49	1982 Jan 20 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W48	2444991.39	1982 Jan 21 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W50	2444991.90	1982 Jan 22 0929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W51	2444992.11	1982 Jan 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W60	2444995.31	1982 Jan 25 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W61	2444995.39	1982 Jan 25 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W62	2444996.12	1982 Jan 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W63	2444996.16	1982 Jan 26 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y28	2444997.11	1982 Jan 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W68	2444997.15	1982 Jan 27 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W69	2444997.19	1982 Jan 27 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W70	2444997.47	1982 Jan 27 2322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W71	2444998.24	1982 Jan 28 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W74	2444999.06	1982 Jan 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y31	2444999.25	1982 Jan 29 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W75	2444999.27	1982 Jan 29 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W76	2444999.36	1982 Jan 29 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W77	2444999.42	1982 Jan 29 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W78	2445000.28	1982 Jan 30 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W79	2445000.31	1982 Jan 30 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W83	2445002.04	1982 Feb 1 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W84	2445002.34	1982 Feb 1 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W85	2445002.38	1982 Feb 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y32	2445003.31	1982 Feb 2 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W87	2445003.34	1982 Feb 2 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W90	2445004.16	1982 Feb 3 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A02	2445004.19	1982 Feb 3 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W91	2445004.27	1982 Feb 3 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W92	2445004.30	1982 Feb 3 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W93	2445004.38	1982 Feb 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y37	2445004.39	1982 Feb 3 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W94	2445004.41	1982 Feb 3 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W95	2445004.45	1982 Feb 3 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W96	2445005.09	1982 Feb 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W97	2445005.19	1982 Feb 4 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W98	2445005.30	1982 Feb 4 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W99	2445006.14	1982 Feb 5 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W100	2445006.22	1982 Feb 5 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A03	2445006.40	1982 Feb 5 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W101	2445008.89	1982 Feb 8 0927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W102	2445009.35	1982 Feb 8 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W104	2445011.06	1982 Feb 10 1325:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W105	2445011.11	1982 Feb 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W106	2445011.35	1982 Feb 10 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W107	2445011.45	1982 Feb 10 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W108	2445012.37	1982 Feb 11 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W110	2445013.07	1982 Feb 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W111	2445013.10	1982 Feb 12 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W112	2445013.38	1982 Feb 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W113	2445015.90	1982 Feb 15 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W116	2445016.42	1982 Feb 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W117	2445017.12	1982 Feb 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W118	2445017.35	1982 Feb 16 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W119	2445017.36	1982 Feb 16 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W120	2445017.38	1982 Feb 16 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W123	2445017.89	1982 Feb 17 0919:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W125	2445018.38	1982 Feb 17 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W126	2445018.44	1982 Feb 17 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W127	2445019.04	1982 Feb 18 1300:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W128	2445019.27	1982 Feb 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W130	2445020.08	1982 Feb 19 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W131	2445020.13	1982 Feb 19 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W132	2445020.25	1982 Feb 19 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W133	2445020.30	1982 Feb 19 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W137	2445023.11	1982 Feb 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W138	2445023.38	1982 Feb 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W139	2445024.06	1982 Feb 23 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W142	2445025.18	1982 Feb 24 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y58	2445025.27	1982 Feb 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W143	2445025.45	1982 Feb 24 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W144	2445025.90	1982 Feb 25 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W145	2445026.21	1982 Feb 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W148	2445026.38	1982 Feb 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A05	2445029.30	1982 Feb 28 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W154	2445030.33	1982 Mar 1 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W155	2445030.35	1982 Mar 1 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W156	2445032.38	1982 Mar 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W157	2445033.19	1982 Mar 4 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W159	2445034.18	1982 Mar 5 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W160	2445034.29	1982 Mar 5 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W161	2445034.39	1982 Mar 5 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W166	2445037.30	1982 Mar 8 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W167	2445038.21	1982 Mar 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W169	2445038.37	1982 Mar 9 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y77	2445039.18	1982 Mar 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W170	2445039.20	1982 Mar 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W172	2445039.42	1982 Mar 10 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W180	2445044.37	1982 Mar 15 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W181	2445044.60	1982 Mar 16 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W183	2445046.27	1982 Mar 17 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W185	2445046.38	1982 Mar 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y94	2445051.18	1982 Mar 22 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W191	2445051.20	1982 Mar 22 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W192	2445051.25	1982 Mar 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y95	2445051.28	1982 Mar 22 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W193	2445051.30	1982 Mar 22 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W195	2445051.34	1982 Mar 22 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y97	2445052.21	1982 Mar 23 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W196	2445052.23	1982 Mar 23 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y98	2445052.30	1982 Mar 23 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W198	2445052.32	1982 Mar 23 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W199	2445052.35	1982 Mar 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W202	2445053.21	1982 Mar 24 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W203	2445053.23	1982 Mar 24 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W204	2445053.29	1982 Mar 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y104	2445053.30	1982 Mar 24 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W206	2445053.33	1982 Mar 24 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y105	2445054.20	1982 Mar 25 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W207	2445054.22	1982 Mar 25 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y107	2445054.30	1982 Mar 25 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W208	2445054.32	1982 Mar 25 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y109	2445055.21	1982 Mar 26 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W209	2445055.23	1982 Mar 26 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y110	2445055.30	1982 Mar 26 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W210	2445055.35	1982 Mar 26 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W211	2445056.21	1982 Mar 27 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W212	2445056.24	1982 Mar 27 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y113	2445056.30	1982 Mar 27 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W213	2445056.31	1982 Mar 27 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y115	2445057.21	1982 Mar 28 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W214	2445057.23	1982 Mar 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W215	2445057.34	1982 Mar 28 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W216	2445058.01	1982 Mar 29 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W217	2445058.08	1982 Mar 29 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W220	2445058.14	1982 Mar 29 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y120	2445058.32	1982 Mar 29 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W221	2445058.34	1982 Mar 29 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W222	2445058.34	1982 Mar 29 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W223	2445058.92	1982 Mar 30 1006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y122	2445059.06	1982 Mar 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y123	2445059.07	1982 Mar 30 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W224	2445059.09	1982 Mar 30 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y124	2445059.12	1982 Mar 30 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W226	2445059.14	1982 Mar 30 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y125	2445059.16	1982 Mar 30 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W227	2445059.17	1982 Mar 30 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W228	2445059.17	1982 Mar 30 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y126	2445059.20	1982 Mar 30 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W229	2445059.22	1982 Mar 30 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W231	2445060.36	1982 Mar 31 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W232	2445060.42	1982 Mar 31 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W233	2445062.42	1982 Apr 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y131	2445065.33	1982 Apr 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W234	2445065.35	1982 Apr 5 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W235	2445066.42	1982 Apr 6 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W238	2445067.17	1982 Apr 7 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W239	2445067.38	1982 Apr 7 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W241	2445069.17	1982 Apr 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W244	2445074.18	1982 Apr 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y141	2445074.27	1982 Apr 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W245	2445074.31	1982 Apr 14 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W246	2445074.44	1982 Apr 14 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W247	2445075.39	1982 Apr 15 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W248	2445075.60	1982 Apr 16 0221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y144	2445079.37	1982 Apr 19 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W250	2445079.38	1982 Apr 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W251	2445079.39	1982 Apr 19 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W252	2445080.12	1982 Apr 20 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W257	2445080.23	1982 Apr 20 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y149	2445081.25	1982 Apr 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W260	2445081.26	1982 Apr 21 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W261	2445081.27	1982 Apr 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A09	2445081.38	1982 Apr 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y150	2445082.33	1982 Apr 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W262	2445082.37	1982 Apr 22 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W263	2445082.61	1982 Apr 23 0243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W265	2445083.38	1982 Apr 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W266	2445086.33	1982 Apr 26 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y155	2445088.21	1982 Apr 28 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W267	2445088.23	1982 Apr 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y157	2445088.25	1982 Apr 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W268	2445088.27	1982 Apr 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W269	2445088.34	1982 Apr 28 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W270	2445089.22	1982 Apr 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W272	2445090.37	1982 Apr 30 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W273	2445090.38	1982 Apr 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W276	2445093.33	1982 May 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A10	2445095.14	1982 May 5 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y164	2445095.24	1982 May 5 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W278	2445095.33	1982 May 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W279	2445095.44	1982 May 5 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W281	2445097.33	1982 May 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W283	2445100.38	1982 May 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W284	2445100.60	1982 May 11 0226:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A11	2445102.25	1982 May 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y170	2445102.29	1982 May 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W287	2445102.31	1982 May 12 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W288	2445103.34	1982 May 13 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W290	2445104.33	1982 May 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W292	2445107.33	1982 May 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W293	2445108.12	1982 May 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W294	2445108.15	1982 May 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y172	2445108.23	1982 May 18 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W295	2445108.25	1982 May 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y175	2445109.15	1982 May 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W296	2445109.18	1982 May 19 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W298	2445111.35	1982 May 21 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W301	2445115.40	1982 May 25 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W304	2445116.21	1982 May 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W305	2445116.25	1982 May 26 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y181	2445116.37	1982 May 26 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W306	2445116.39	1982 May 26 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W307	2445116.46	1982 May 26 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W308	2445117.11	1982 May 27 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W309	2445117.39	1982 May 27 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W310	2445118.19	1982 May 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W311	2445118.38	1982 May 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A13	2445121.38	1982 May 31 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W314	2445123.13	1982 Jun 2 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y188	2445123.21	1982 Jun 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W315	2445123.47	1982 Jun 2 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W316	2445124.38	1982 Jun 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y192	2445125.29	1982 Jun 4 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W317	2445125.31	1982 Jun 4 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W318	2445128.36	1982 Jun 7 2037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W319	2445128.39	1982 Jun 7 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W321	2445129.38	1982 Jun 8 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y198	2445130.29	1982 Jun 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W323	2445130.38	1982 Jun 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W324	2445130.46	1982 Jun 9 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W325	2445135.38	1982 Jun 14 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A14	2445137.15	1982 Jun 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W326	2445137.21	1982 Jun 16 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W327	2445138.43	1982 Jun 17 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W328	2445139.40	1982 Jun 18 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W329	2445142.38	1982 Jun 21 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W330	2445143.15	1982 Jun 22 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W332	2445144.39	1982 Jun 23 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W333	2445144.45	1982 Jun 23 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W334	2445145.39	1982 Jun 24 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W335	2445148.10	1982 Jun 27 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y212	2445148.16	1982 Jun 27 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W336	2445148.21	1982 Jun 27 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W337	2445149.15	1982 Jun 28 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y213	2445149.93	1982 Jun 29 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y215	2445150.08	1982 Jun 29 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y216	2445150.10	1982 Jun 29 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W338	2445150.12	1982 Jun 29 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y218	2445150.16	1982 Jun 29 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y219	2445150.18	1982 Jun 29 1612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W339	2445150.18	1982 Jun 29 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y224	2445151.23	1982 Jun 30 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W340	2445151.44	1982 Jun 30 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W341	2445151.45	1982 Jun 30 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W342	2445152.08	1982 Jul 1 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y228	2445152.16	1982 Jul 1 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W343	2445152.20	1982 Jul 1 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y232	2445154.08	1982 Jul 3 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y233	2445154.11	1982 Jul 3 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y234	2445154.13	1982 Jul 3 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y235	2445154.16	1982 Jul 3 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W344	2445154.18	1982 Jul 3 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W345	2445154.19	1982 Jul 3 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W346	2445154.93	1982 Jul 4 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y239	2445154.96	1982 Jul 4 1109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y240	2445155.05	1982 Jul 4 1312:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W348	2445155.07	1982 Jul 4 1342:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y241	2445155.07	1982 Jul 4 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W349	2445155.09	1982 Jul 4 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y242	2445155.09	1982 Jul 4 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W350	2445155.10	1982 Jul 4 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y243	2445155.12	1982 Jul 4 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W351	2445155.13	1982 Jul 4 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y244	2445155.14	1982 Jul 4 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y245	2445155.16	1982 Jul 4 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W352	2445155.18	1982 Jul 4 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W353	2445155.19	1982 Jul 4 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W354	2445155.22	1982 Jul 4 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y251	2445158.21	1982 Jul 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W356	2445158.23	1982 Jul 7 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W357	2445158.38	1982 Jul 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W358	2445158.44	1982 Jul 7 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y255	2445160.12	1982 Jul 9 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W359	2445160.39	1982 Jul 9 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W360	2445160.41	1982 Jul 9 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y260	2445163.35	1982 Jul 12 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A15	2445164.38	1982 Jul 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W361	2445165.41	1982 Jul 14 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W362	2445165.44	1982 Jul 14 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W363	2445166.38	1982 Jul 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W364	2445167.35	1982 Jul 16 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y270	2445167.39	1982 Jul 16 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W365	2445167.40	1982 Jul 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W366	2445167.42	1982 Jul 16 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y271	2445170.15	1982 Jul 19 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W367	2445170.18	1982 Jul 19 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y272	2445170.41	1982 Jul 19 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W368	2445170.42	1982 Jul 19 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W369	2445170.44	1982 Jul 19 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W370	2445171.36	1982 Jul 20 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y275	2445172.24	1982 Jul 21 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W372	2445172.40	1982 Jul 21 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W373	2445172.46	1982 Jul 21 2258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y277	2445177.37	1982 Jul 26 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W374	2445177.39	1982 Jul 26 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W375	2445179.23	1982 Jul 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W376	2445179.44	1982 Jul 28 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W377	2445180.38	1982 Jul 29 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y286	2445186.21	1982 Aug 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y287	2445187.37	1982 Aug 5 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W379	2445187.40	1982 Aug 5 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W380	2445188.36	1982 Aug 6 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y289	2445191.29	1982 Aug 9 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W381	2445191.31	1982 Aug 9 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y290	2445191.39	1982 Aug 9 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W382	2445191.41	1982 Aug 9 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y295	2445193.21	1982 Aug 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W383	2445193.23	1982 Aug 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y301	2445200.21	1982 Aug 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W385	2445200.23	1982 Aug 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W386	2445200.29	1982 Aug 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W387	2445200.45	1982 Aug 18 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W388	2445201.46	1982 Aug 19 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y303	2445202.15	1982 Aug 20 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W389	2445202.17	1982 Aug 20 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A18	2445205.60	1982 Aug 24 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W390	2445206.27	1982 Aug 24 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y308	2445207.31	1982 Aug 25 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y309	2445207.33	1982 Aug 25 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W391	2445207.38	1982 Aug 25 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y310	2445207.44	1982 Aug 25 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W392	2445209.23	1982 Aug 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W393	2445209.37	1982 Aug 27 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W394	2445209.42	1982 Aug 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W395	2445212.41	1982 Aug 30 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W397	2445214.14	1982 Sep 1 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W398	2445214.22	1982 Sep 1 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W399	2445214.47	1982 Sep 1 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y318	2445220.37	1982 Sep 7 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W402	2445220.39	1982 Sep 7 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y323	2445221.23	1982 Sep 8 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y325	2445222.21	1982 Sep 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W404	2445222.23	1982 Sep 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A19	2445222.38	1982 Sep 9 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A20	2445228.45	1982 Sep 15 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W407	2445228.50	1982 Sep 16 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W409	2445229.24	1982 Sep 16 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W410	2445229.30	1982 Sep 16 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A21	2445230.46	1982 Sep 17 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W411	2445233.60	1982 Sep 21 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y331	2445234.40	1982 Sep 21 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W412	2445234.42	1982 Sep 21 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y335	2445235.21	1982 Sep 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W413	2445235.50	1982 Sep 23 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W414	2445237.06	1982 Sep 24 1321:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W415	2445240.10	1982 Sep 27 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W416	2445240.33	1982 Sep 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W417	2445240.41	1982 Sep 27 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y340	2445242.21	1982 Sep 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A22	2445242.35	1982 Sep 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W420	2445242.45	1982 Sep 29 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W421	2445244.10	1982 Oct 1 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W422	2445244.60	1982 Oct 2 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W423	2445247.40	1982 Oct 4 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W424	2445247.65	1982 Oct 5 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y342	2445248.21	1982 Oct 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W425	2445248.23	1982 Oct 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W426	2445249.21	1982 Oct 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A23	2445249.42	1982 Oct 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W428	2445250.95	1982 Oct 8 1054:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A24	2445251.38	1982 Oct 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y349	2445255.30	1982 Oct 12 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y353	2445256.21	1982 Oct 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W429	2445256.21	1982 Oct 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W430	2445256.23	1982 Oct 13 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A25	2445256.35	1982 Oct 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W431	2445258.39	1982 Oct 15 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y354	2445261.33	1982 Oct 18 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A26	2445261.38	1982 Oct 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A27	2445263.16	1982 Oct 20 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W432	2445263.21	1982 Oct 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W433	2445263.24	1982 Oct 20 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A28	2445263.34	1982 Oct 20 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W434	2445263.41	1982 Oct 20 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W436	2445264.52	1982 Oct 22 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A29	2445268.33	1982 Oct 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W439	2445269.64	1982 Oct 27 0326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y362	2445270.21	1982 Oct 27 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W440	2445270.23	1982 Oct 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W441	2445270.46	1982 Oct 27 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A30	2445272.42	1982 Oct 29 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W443	2445275.33	1982 Nov 1 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W444	2445275.35	1982 Nov 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A31	2445277.67	1982 Nov 4 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W447	2445278.16	1982 Nov 4 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A32	2445283.24	1982 Nov 9 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W452	2445284.38	1982 Nov 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W453	2445284.44	1982 Nov 10 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y369	2445285.03	1982 Nov 11 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W454	2445285.07	1982 Nov 11 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y370	2445285.10	1982 Nov 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W455	2445285.12	1982 Nov 11 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A33	2445286.38	1982 Nov 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W457	2445286.38	1982 Nov 12 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y371	2445287.03	1982 Nov 13 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-Y372	2445287.07	1982 Nov 13 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W458	2445287.09	1982 Nov 13 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y373	2445287.11	1982 Nov 13 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W459	2445287.15	1982 Nov 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y374	2445289.06	1982 Nov 15 1326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y375	2445289.09	1982 Nov 15 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W461	2445289.10	1982 Nov 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W462	2445289.12	1982 Nov 15 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W464	2445289.87	1982 Nov 16 0855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y380	2445289.96	1982 Nov 16 1109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y381	2445289.98	1982 Nov 16 1133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y382	2445290.00	1982 Nov 16 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W466	2445290.00	1982 Nov 16 1204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y383	2445290.01	1982 Nov 16 1211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W467	2445290.02	1982 Nov 16 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W468	2445290.02	1982 Nov 16 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y385	2445290.07	1982 Nov 16 1333:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W469	2445290.08	1982 Nov 16 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y386	2445290.09	1982 Nov 16 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y387	2445290.10	1982 Nov 16 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W470	2445290.12	1982 Nov 16 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W471	2445290.36	1982 Nov 16 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W472	2445291.48	1982 Nov 17 2327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W475	2445293.17	1982 Nov 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W479	2445298.21	1982 Nov 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W480	2445298.57	1982 Nov 25 0141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W482	2445300.65	1982 Nov 27 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W484	2445303.38	1982 Nov 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W486	2445305.16	1982 Dec 1 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W487	2445305.44	1982 Dec 1 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W493	2445311.36	1982 Dec 7 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-Y414	2445312.25	1982 Dec 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W497	2445312.25	1982 Dec 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W498	2445312.35	1982 Dec 8 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A35	2445314.62	1982 Dec 11 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W499	2445317.38	1982 Dec 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A36	2445317.38	1982 Dec 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W502	2445319.27	1982 Dec 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W503	2445319.38	1982 Dec 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W504	2445320.35	1982 Dec 16 2029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W507	2445324.36	1982 Dec 20 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A37	2445324.63	1982 Dec 21 0304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W508	2445325.37	1982 Dec 21 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A39	2445326.44	1982 Dec 22 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-A40	2445333.38	1982 Dec 29 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W513	2445334.53	1982 Dec 31 0044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1982-W514	2445335.40	1982 Dec 31 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A01	2445338.62	1983 Jan 4 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W02	2445340.27	1983 Jan 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y06	2445340.38	1983 Jan 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W04	2445340.38	1983 Jan 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W05	2445340.39	1983 Jan 5 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W06	2445340.52	1983 Jan 6 0035:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A02	2445342.38	1983 Jan 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W08	2445347.25	1983 Jan 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W11	2445349.64	1983 Jan 15 0314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W12	2445352.33	1983 Jan 17 1948:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W13	2445352.60	1983 Jan 18 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W15	2445354.30	1983 Jan 19 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W16	2445354.47	1983 Jan 19 2323:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W18	2445356.19	1983 Jan 21 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W19	2445359.62	1983 Jan 25 0257:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W20	2445360.27	1983 Jan 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W23	2445361.19	1983 Jan 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W24	2445361.21	1983 Jan 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A03	2445363.38	1983 Jan 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A04	2445368.25	1983 Feb 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W25	2445368.49	1983 Feb 2 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A05	2445370.42	1983 Feb 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y31	2445372.88	1983 Feb 7 0910:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W29	2445375.19	1983 Feb 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W30	2445375.45	1983 Feb 9 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W31	2445376.28	1983 Feb 10 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y38	2445376.29	1983 Feb 10 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W34	2445380.39	1983 Feb 14 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y43	2445382.31	1983 Feb 16 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W38	2445382.34	1983 Feb 16 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A06	2445382.38	1983 Feb 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W39	2445383.54	1983 Feb 18 0056:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W41	2445384.29	1983 Feb 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A07	2445387.38	1983 Feb 21 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W44	2445388.52	1983 Feb 23 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W47	2445388.85	1983 Feb 23 0822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W49	2445389.19	1983 Feb 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W50	2445391.62	1983 Feb 26 0248:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W51	2445392.12	1983 Feb 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-W53	2445394.38	1983 Feb 28 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W54	2445394.54	1983 Mar 1 0054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W57	2445396.19	1983 Mar 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W58	2445396.35	1983 Mar 2 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W59	2445397.38	1983 Mar 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A08	2445398.38	1983 Mar 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W63	2445401.38	1983 Mar 7 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A09	2445401.46	1983 Mar 7 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A10	2445403.40	1983 Mar 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y89	2445404.24	1983 Mar 10 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W68	2445404.26	1983 Mar 10 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W69	2445404.36	1983 Mar 10 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y92	2445405.35	1983 Mar 11 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W72	2445405.39	1983 Mar 11 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W74	2445407.12	1983 Mar 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W77	2445408.39	1983 Mar 14 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W78	2445409.19	1983 Mar 15 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W79	2445409.35	1983 Mar 15 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y100	2445410.27	1983 Mar 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W83	2445410.29	1983 Mar 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A11	2445410.39	1983 Mar 16 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W85	2445412.39	1983 Mar 18 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A12	2445412.65	1983 Mar 19 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W86	2445415.38	1983 Mar 21 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W87	2445416.19	1983 Mar 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W88	2445416.31	1983 Mar 22 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W92	2445417.27	1983 Mar 23 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W94	2445417.38	1983 Mar 23 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W95	2445417.53	1983 Mar 24 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A13	2445419.38	1983 Mar 25 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y123	2445422.27	1983 Mar 28 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W98	2445422.28	1983 Mar 28 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A14	2445422.38	1983 Mar 28 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W99	2445422.52	1983 Mar 29 0029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W100	2445423.19	1983 Mar 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W101	2445424.31	1983 Mar 30 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A15	2445424.43	1983 Mar 30 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W103	2445425.36	1983 Mar 31 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y131	2445426.38	1983 Apr 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A16	2445426.38	1983 Apr 1 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y132	2445429.18	1983 Apr 4 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W104	2445429.21	1983 Apr 4 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W105	2445429.27	1983 Apr 4 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y133	2445429.28	1983 Apr 4 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W109	2445431.25	1983 Apr 6 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A17	2445431.62	1983 Apr 7 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W110	2445433.22	1983 Apr 8 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W111	2445433.24	1983 Apr 8 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W112	2445433.29	1983 Apr 8 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y138	2445434.02	1983 Apr 9 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W113	2445434.04	1983 Apr 9 1302:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y141	2445434.14	1983 Apr 9 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y142	2445434.15	1983 Apr 9 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W114	2445434.16	1983 Apr 9 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y143	2445434.17	1983 Apr 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y144	2445434.18	1983 Apr 9 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W115	2445434.20	1983 Apr 9 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W116	2445434.20	1983 Apr 9 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y145	2445434.25	1983 Apr 9 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W117	2445434.25	1983 Apr 9 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W118	2445434.26	1983 Apr 9 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W119	2445434.28	1983 Apr 9 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y146	2445436.38	1983 Apr 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W121	2445438.19	1983 Apr 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y149	2445438.29	1983 Apr 13 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W122	2445438.31	1983 Apr 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W124	2445443.12	1983 Apr 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A18	2445443.42	1983 Apr 18 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W126	2445445.19	1983 Apr 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y153	2445445.27	1983 Apr 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y156	2445445.39	1983 Apr 20 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W127	2445445.41	1983 Apr 20 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W128	2445445.42	1983 Apr 20 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W129	2445449.07	1983 Apr 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y158	2445450.27	1983 Apr 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y159	2445450.33	1983 Apr 25 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W130	2445450.36	1983 Apr 25 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y164	2445452.19	1983 Apr 27 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A20	2445452.38	1983 Apr 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W132	2445453.14	1983 Apr 28 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W135	2445459.17	1983 May 4 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W137	2445459.37	1983 May 4 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W138	2445460.01	1983 May 5 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A21	2445460.07	1983 May 5 1335:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y169	2445460.22	1983 May 5 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W139	2445460.24	1983 May 5 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y170	2445460.40	1983 May 5 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W140	2445460.41	1983 May 5 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W142	2445461.20	1983 May 6 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W143	2445464.35	1983 May 9 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W144	2445465.01	1983 May 10 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W149	2445466.10	1983 May 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W151	2445466.35	1983 May 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W152	2445467.52	1983 May 13 0025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W154	2445468.35	1983 May 13 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W155	2445468.35	1983 May 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W157	2445471.38	1983 May 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W161	2445473.10	1983 May 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W163	2445475.25	1983 May 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A23	2445479.35	1983 May 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W168	2445480.10	1983 May 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W169	2445480.37	1983 May 25 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W170	2445480.38	1983 May 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y176	2445481.20	1983 May 26 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W172	2445481.34	1983 May 26 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W175	2445487.15	1983 Jun 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y181	2445487.28	1983 Jun 1 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W176	2445487.32	1983 Jun 1 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W178	2445493.39	1983 Jun 7 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y189	2445494.23	1983 Jun 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W180	2445494.26	1983 Jun 8 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W183	2445495.15	1983 Jun 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W185	2445499.30	1983 Jun 13 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W188	2445501.15	1983 Jun 15 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y196	2445502.16	1983 Jun 16 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W189	2445503.09	1983 Jun 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y197	2445503.13	1983 Jun 17 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W191	2445505.07	1983 Jun 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y201	2445506.37	1983 Jun 20 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W193	2445507.52	1983 Jun 22 0033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W194	2445508.15	1983 Jun 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y208	2445508.37	1983 Jun 22 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W195	2445509.83	1983 Jun 24 0752:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W196	2445509.89	1983 Jun 24 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y211	2445510.06	1983 Jun 24 1323:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y212	2445510.07	1983 Jun 24 1335:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y213	2445510.08	1983 Jun 24 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y214	2445510.09	1983 Jun 24 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y216	2445510.10	1983 Jun 24 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W197	2445510.10	1983 Jun 24 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W198	2445510.11	1983 Jun 24 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W199	2445510.11	1983 Jun 24 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W200	2445510.14	1983 Jun 24 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y217	2445510.18	1983 Jun 24 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W202	2445514.32	1983 Jun 28 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W205	2445515.15	1983 Jun 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y223	2445516.17	1983 Jun 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W206	2445516.19	1983 Jun 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y227	2445521.22	1983 Jul 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W208	2445521.24	1983 Jul 5 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y229	2445521.39	1983 Jul 5 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W209	2445521.41	1983 Jul 5 2154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W212	2445529.20	1983 Jul 13 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W214	2445531.32	1983 Jul 15 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W216	2445532.07	1983 Jul 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W217	2445534.39	1983 Jul 18 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y237	2445535.35	1983 Jul 19 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W218	2445535.37	1983 Jul 19 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W220	2445541.21	1983 Jul 25 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W221	2445541.25	1983 Jul 25 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y244	2445543.23	1983 Jul 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W223	2445543.31	1983 Jul 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y246	2445549.30	1983 Aug 2 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W226	2445549.32	1983 Aug 2 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W228	2445550.25	1983 Aug 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W229	2445551.40	1983 Aug 4 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y257	2445557.25	1983 Aug 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W235	2445558.53	1983 Aug 12 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W237	2445559.15	1983 Aug 12 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W238	2445563.21	1983 Aug 16 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y260	2445564.18	1983 Aug 17 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W240	2445569.52	1983 Aug 23 0029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W242	2445571.17	1983 Aug 24 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y265	2445576.86	1983 Aug 30 0838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W246	2445576.95	1983 Aug 30 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W247	2445577.15	1983 Aug 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y269	2445578.83	1983 Sep 1 0801:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y270	2445578.85	1983 Sep 1 0822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W248	2445578.90	1983 Sep 1 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y271	2445580.24	1983 Sep 2 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W250	2445580.26	1983 Sep 2 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W251	2445580.66	1983 Sep 3 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y272	2445580.81	1983 Sep 3 0725:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W252	2445580.89	1983 Sep 3 0924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y274	2445582.76	1983 Sep 5 0613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W254	2445582.78	1983 Sep 5 0641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y276	2445582.82	1983 Sep 5 0741:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y277	2445582.83	1983 Sep 5 0802:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W256	2445582.85	1983 Sep 5 0826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W257	2445582.87	1983 Sep 5 0855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W258	2445582.89	1983 Sep 5 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W259	2445584.16	1983 Sep 6 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W260	2445584.41	1983 Sep 6 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y280	2445585.25	1983 Sep 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W262	2445585.27	1983 Sep 7 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W263	2445585.49	1983 Sep 7 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W264	2445590.31	1983 Sep 12 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y281	2445590.40	1983 Sep 12 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W265	2445590.42	1983 Sep 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W267	2445592.15	1983 Sep 14 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W268	2445592.23	1983 Sep 14 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W269	2445592.48	1983 Sep 14 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W271	2445594.37	1983 Sep 16 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W272	2445596.07	1983 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W273	2445597.30	1983 Sep 19 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A30	2445597.99	1983 Sep 20 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y286	2445598.38	1983 Sep 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W276	2445598.39	1983 Sep 20 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W278	2445599.12	1983 Sep 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W279	2445599.15	1983 Sep 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W280	2445600.36	1983 Sep 22 2041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A31	2445604.35	1983 Sep 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W284	2445606.19	1983 Sep 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A32	2445606.39	1983 Sep 28 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W285	2445607.15	1983 Sep 29 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A33	2445608.35	1983 Sep 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A34	2445611.35	1983 Oct 3 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W287	2445613.15	1983 Oct 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W288	2445613.24	1983 Oct 5 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A35	2445613.35	1983 Oct 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W289	2445613.58	1983 Oct 6 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A36	2445615.42	1983 Oct 7 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A37	2445619.36	1983 Oct 11 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W291	2445620.25	1983 Oct 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A38	2445621.25	1983 Oct 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A39	2445621.35	1983 Oct 13 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A40	2445622.35	1983 Oct 14 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W293	2445625.41	1983 Oct 17 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A41	2445625.60	1983 Oct 18 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W295	2445627.25	1983 Oct 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A42	2445627.35	1983 Oct 19 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y289	2445628.19	1983 Oct 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W296	2445628.23	1983 Oct 20 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W297	2445629.27	1983 Oct 21 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A43	2445629.38	1983 Oct 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A44	2445632.40	1983 Oct 24 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W298	2445633.35	1983 Oct 25 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W300	2445634.23	1983 Oct 26 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W303	2445636.32	1983 Oct 28 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A45	2445636.36	1983 Oct 28 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A46	2445639.35	1983 Oct 31 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W305	2445640.38	1983 Nov 1 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y290	2445641.25	1983 Nov 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W307	2445641.29	1983 Nov 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A47	2445641.41	1983 Nov 2 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W308	2445643.19	1983 Nov 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W309	2445646.31	1983 Nov 7 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W310	2445647.21	1983 Nov 8 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W311	2445647.26	1983 Nov 8 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W312	2445648.25	1983 Nov 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W313	2445648.36	1983 Nov 9 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W314	2445648.37	1983 Nov 9 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W318	2445655.18	1983 Nov 16 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W319	2445655.26	1983 Nov 16 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A48	2445655.35	1983 Nov 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y291	2445655.36	1983 Nov 16 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W320	2445656.36	1983 Nov 17 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W321	2445657.14	1983 Nov 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y294	2445660.30	1983 Nov 21 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W322	2445660.31	1983 Nov 21 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W323	2445660.53	1983 Nov 22 0042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W326	2445662.27	1983 Nov 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y295	2445662.29	1983 Nov 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W327	2445662.31	1983 Nov 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W328	2445667.17	1983 Nov 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W329	2445667.21	1983 Nov 28 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W331	2445669.15	1983 Nov 30 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W332	2445669.19	1983 Nov 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-W334	2445669.46	1983 Nov 30 2308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y296	2445671.14	1983 Dec 2 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W335	2445671.18	1983 Dec 2 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A49	2445671.60	1983 Dec 3 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y298	2445673.13	1983 Dec 4 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W338	2445673.15	1983 Dec 4 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W341	2445675.16	1983 Dec 6 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W342	2445675.38	1983 Dec 6 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W345	2445676.19	1983 Dec 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A50	2445676.35	1983 Dec 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W349	2445676.47	1983 Dec 7 2323:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y302	2445676.92	1983 Dec 8 1002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W350	2445676.95	1983 Dec 8 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A51	2445677.20	1983 Dec 8 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W351	2445677.21	1983 Dec 8 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y305	2445677.38	1983 Dec 8 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y306	2445677.42	1983 Dec 8 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W353	2445677.43	1983 Dec 8 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W354	2445677.47	1983 Dec 8 2322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W355	2445677.49	1983 Dec 8 2344:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W356	2445677.50	1983 Dec 9 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W357	2445677.50	1983 Dec 9 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W358	2445677.50	1983 Dec 9 0007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W359	2445677.52	1983 Dec 9 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W360	2445677.52	1983 Dec 9 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y309	2445682.17	1983 Dec 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W363	2445682.19	1983 Dec 13 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y310	2445683.25	1983 Dec 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W365	2445683.55	1983 Dec 15 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W368	2445686.16	1983 Dec 17 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W369	2445686.28	1983 Dec 17 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-Y316	2445688.24	1983 Dec 19 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W370	2445688.26	1983 Dec 19 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W371	2445688.52	1983 Dec 20 0029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A52	2445690.38	1983 Dec 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W376	2445690.49	1983 Dec 21 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W377	2445691.17	1983 Dec 22 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-W378	2445691.27	1983 Dec 22 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-A53	2445699.35	1983 Dec 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W01	2445703.14	1984 Jan 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y02	2445704.21	1984 Jan 4 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A01	2445704.35	1984 Jan 4 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W04	2445704.42	1984 Jan 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W05	2445704.47	1984 Jan 4 2321:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A02	2445709.35	1984 Jan 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W08	2445709.41	1984 Jan 9 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W10	2445710.10	1984 Jan 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y08	2445710.32	1984 Jan 10 1945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W12	2445711.13	1984 Jan 11 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W13	2445711.33	1984 Jan 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A03	2445711.35	1984 Jan 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A04	2445716.35	1984 Jan 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W19	2445716.39	1984 Jan 16 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W20	2445716.40	1984 Jan 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y20	2445717.25	1984 Jan 17 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W21	2445717.28	1984 Jan 17 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A05	2445718.03	1984 Jan 18 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W23	2445718.09	1984 Jan 18 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W24	2445718.14	1984 Jan 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A06	2445718.35	1984 Jan 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W27	2445720.35	1984 Jan 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W29	2445721.19	1984 Jan 21 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W30	2445721.26	1984 Jan 21 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W31	2445721.33	1984 Jan 21 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W32	2445723.12	1984 Jan 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W33	2445723.35	1984 Jan 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W36	2445725.14	1984 Jan 25 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W38	2445726.35	1984 Jan 26 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W39	2445726.35	1984 Jan 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W40	2445727.15	1984 Jan 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W41	2445727.40	1984 Jan 27 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A07	2445730.04	1984 Jan 30 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y37	2445730.25	1984 Jan 30 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A08	2445730.60	1984 Jan 31 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y42	2445732.25	1984 Feb 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W44	2445732.35	1984 Feb 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W45	2445732.51	1984 Feb 2 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y43	2445734.03	1984 Feb 3 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W46	2445734.05	1984 Feb 3 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W47	2445734.12	1984 Feb 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W48	2445734.19	1984 Feb 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W49	2445734.39	1984 Feb 3 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y45	2445736.01	1984 Feb 5 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W50	2445736.03	1984 Feb 5 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W52	2445737.35	1984 Feb 6 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y47	2445738.01	1984 Feb 7 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W53	2445738.03	1984 Feb 7 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y49	2445739.29	1984 Feb 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W55	2445739.46	1984 Feb 8 2308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y52	2445740.03	1984 Feb 9 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W57	2445740.05	1984 Feb 9 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W60	2445740.41	1984 Feb 9 2144:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W62	2445741.04	1984 Feb 10 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W63	2445741.20	1984 Feb 10 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W64	2445741.79	1984 Feb 11 0703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W65	2445742.02	1984 Feb 11 1222:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W66	2445742.02	1984 Feb 11 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W67	2445742.02	1984 Feb 11 1224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y59	2445742.06	1984 Feb 11 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W69	2445742.10	1984 Feb 11 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W70	2445742.20	1984 Feb 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W72	2445744.13	1984 Feb 13 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W74	2445744.36	1984 Feb 13 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A09	2445744.43	1984 Feb 13 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W76	2445746.48	1984 Feb 15 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W78	2445747.19	1984 Feb 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W79	2445748.36	1984 Feb 17 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W83	2445751.35	1984 Feb 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W84	2445752.04	1984 Feb 21 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W86	2445752.38	1984 Feb 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y75	2445753.25	1984 Feb 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W88	2445753.27	1984 Feb 22 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W89	2445753.50	1984 Feb 23 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W90	2445754.14	1984 Feb 23 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W91	2445754.35	1984 Feb 23 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W92	2445755.21	1984 Feb 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W93	2445758.12	1984 Feb 27 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W94	2445758.15	1984 Feb 27 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A10	2445759.39	1984 Feb 28 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W95	2445760.14	1984 Feb 29 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W96	2445760.20	1984 Feb 29 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y79	2445760.25	1984 Feb 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W97	2445760.35	1984 Feb 29 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W98	2445760.35	1984 Feb 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W100	2445762.38	1984 Mar 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A11	2445765.35	1984 Mar 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W102	2445768.19	1984 Mar 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A12	2445769.04	1984 Mar 9 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W103	2445772.15	1984 Mar 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W104	2445772.40	1984 Mar 12 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A13	2445772.60	1984 Mar 13 0231:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W106	2445774.04	1984 Mar 14 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W107	2445774.28	1984 Mar 14 1842:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W109	2445775.39	1984 Mar 15 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W110	2445780.35	1984 Mar 20 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W111	2445781.04	1984 Mar 21 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W112	2445781.19	1984 Mar 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W113	2445781.26	1984 Mar 21 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W114	2445781.29	1984 Mar 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W115	2445781.35	1984 Mar 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W116	2445782.15	1984 Mar 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W117	2445783.10	1984 Mar 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W118	2445786.03	1984 Mar 26 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W119	2445786.40	1984 Mar 26 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W121	2445788.17	1984 Mar 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y80	2445788.33	1984 Mar 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A14	2445788.40	1984 Mar 28 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W123	2445789.15	1984 Mar 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W124	2445790.15	1984 Mar 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W125	2445790.32	1984 Mar 30 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W126	2445793.33	1984 Apr 2 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W127	2445794.33	1984 Apr 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W128	2445795.19	1984 Apr 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A15	2445796.35	1984 Apr 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W129	2445797.08	1984 Apr 6 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W130	2445797.09	1984 Apr 6 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W131	2445797.10	1984 Apr 6 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y81	2445797.14	1984 Apr 6 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W132	2445797.17	1984 Apr 6 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y82	2445797.21	1984 Apr 6 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W133	2445797.23	1984 Apr 6 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W134	2445797.40	1984 Apr 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W135	2445799.09	1984 Apr 8 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W136	2445799.10	1984 Apr 8 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W137	2445799.10	1984 Apr 8 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W138	2445800.36	1984 Apr 9 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y83	2445801.05	1984 Apr 10 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W139	2445801.05	1984 Apr 10 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y84	2445801.06	1984 Apr 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W140	2445801.07	1984 Apr 10 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W141	2445801.09	1984 Apr 10 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y85	2445803.00	1984 Apr 12 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W143	2445803.00	1984 Apr 12 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W144	2445803.04	1984 Apr 12 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W145	2445803.05	1984 Apr 12 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W146	2445803.78	1984 Apr 13 0638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y86	2445804.03	1984 Apr 13 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W147	2445804.05	1984 Apr 13 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y87	2445804.05	1984 Apr 13 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y89	2445804.07	1984 Apr 13 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W148	2445804.07	1984 Apr 13 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W150	2445804.08	1984 Apr 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W151	2445804.08	1984 Apr 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W152	2445804.09	1984 Apr 13 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y90	2445804.09	1984 Apr 13 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W153	2445804.12	1984 Apr 13 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W154	2445807.35	1984 Apr 16 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W155	2445809.03	1984 Apr 18 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W156	2445809.27	1984 Apr 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W157	2445809.33	1984 Apr 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W158	2445811.38	1984 Apr 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W159	2445811.38	1984 Apr 20 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W160	2445814.33	1984 Apr 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W161	2445815.15	1984 Apr 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W163	2445816.07	1984 Apr 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W164	2445816.27	1984 Apr 25 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W165	2445816.35	1984 Apr 25 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W167	2445817.27	1984 Apr 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W168	2445818.29	1984 Apr 27 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W169	2445818.33	1984 Apr 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A17	2445821.29	1984 Apr 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W170	2445822.08	1984 May 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W171	2445822.39	1984 May 1 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W172	2445823.16	1984 May 2 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W173	2445823.32	1984 May 2 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A18	2445825.33	1984 May 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W174	2445828.39	1984 May 7 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W176	2445829.03	1984 May 8 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A19	2445829.29	1984 May 8 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W178	2445830.08	1984 May 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A20	2445830.31	1984 May 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W179	2445830.90	1984 May 10 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W180	2445832.33	1984 May 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A21	2445835.33	1984 May 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W182	2445837.03	1984 May 16 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W183	2445837.15	1984 May 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W184	2445837.58	1984 May 17 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A22	2445842.34	1984 May 21 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W185	2445842.35	1984 May 21 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W187	2445844.33	1984 May 23 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W188	2445846.09	1984 May 25 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W189	2445846.36	1984 May 25 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A23	2445849.31	1984 May 28 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W191	2445851.07	1984 May 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W192	2445851.09	1984 May 30 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W193	2445851.35	1984 May 30 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W194	2445853.09	1984 Jun 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W195	2445858.11	1984 Jun 6 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W196	2445858.26	1984 Jun 6 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W198	2445859.61	1984 Jun 8 0235:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A24	2445860.31	1984 Jun 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A25	2445864.31	1984 Jun 12 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W199	2445864.36	1984 Jun 12 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W201	2445865.15	1984 Jun 13 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W202	2445867.10	1984 Jun 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W203	2445867.25	1984 Jun 15 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W204	2445867.26	1984 Jun 15 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W205	2445870.10	1984 Jun 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W208	2445872.10	1984 Jun 20 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W209	2445872.16	1984 Jun 20 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W210	2445874.11	1984 Jun 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y91	2445877.03	1984 Jun 25 1243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W211	2445877.05	1984 Jun 25 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W212	2445877.31	1984 Jun 25 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y92	2445878.03	1984 Jun 26 1243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W213	2445878.05	1984 Jun 26 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W214	2445879.10	1984 Jun 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A26	2445879.33	1984 Jun 27 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W215	2445879.47	1984 Jun 27 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W216	2445880.16	1984 Jun 28 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W217	2445881.32	1984 Jun 29 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W218	2445884.10	1984 Jul 2 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W219	2445884.22	1984 Jul 2 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W220	2445885.31	1984 Jul 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W222	2445887.10	1984 Jul 5 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W223	2445887.34	1984 Jul 5 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W224	2445888.03	1984 Jul 6 1243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W225	2445888.10	1984 Jul 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W226	2445888.35	1984 Jul 6 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W227	2445891.39	1984 Jul 9 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W228	2445893.03	1984 Jul 11 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W229	2445893.06	1984 Jul 11 1325:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W230	2445893.45	1984 Jul 11 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W231	2445898.03	1984 Jul 16 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W232	2445898.09	1984 Jul 16 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W234	2445900.10	1984 Jul 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W235	2445902.09	1984 Jul 20 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W236	2445902.31	1984 Jul 20 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A27	2445905.31	1984 Jul 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W237	2445905.39	1984 Jul 23 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W238	2445906.37	1984 Jul 24 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W239	2445907.04	1984 Jul 25 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W240	2445907.10	1984 Jul 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W241	2445909.32	1984 Jul 27 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W243	2445914.10	1984 Aug 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W244	2445914.15	1984 Aug 1 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W245	2445914.24	1984 Aug 1 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W246	2445916.28	1984 Aug 3 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W247	2445920.04	1984 Aug 7 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W248	2445920.14	1984 Aug 7 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A29	2445921.16	1984 Aug 8 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y98	2445921.38	1984 Aug 8 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W249	2445921.40	1984 Aug 8 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W250	2445921.48	1984 Aug 8 2332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W251	2445926.11	1984 Aug 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W252	2445926.52	1984 Aug 14 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W253	2445927.88	1984 Aug 15 0904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W254	2445928.03	1984 Aug 15 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W256	2445928.46	1984 Aug 15 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W257	2445930.10	1984 Aug 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W258	2445930.35	1984 Aug 17 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W259	2445934.15	1984 Aug 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W260	2445934.35	1984 Aug 21 2031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W261	2445935.20	1984 Aug 22 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W263	2445936.10	1984 Aug 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W264	2445937.22	1984 Aug 24 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W265	2445937.29	1984 Aug 24 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A30	2445937.31	1984 Aug 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W266	2445939.11	1984 Aug 26 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W267	2445940.11	1984 Aug 27 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W269	2445942.32	1984 Aug 29 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W270	2445942.48	1984 Aug 29 2326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y100	2445943.03	1984 Aug 30 1243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W271	2445943.07	1984 Aug 30 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W272	2445943.09	1984 Aug 30 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W273	2445943.10	1984 Aug 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W274	2445943.12	1984 Aug 30 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W275	2445943.32	1984 Aug 30 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W276	2445943.52	1984 Aug 31 0029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W277	2445944.12	1984 Aug 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W278	2445944.20	1984 Aug 31 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y101	2445945.06	1984 Sep 1 1330:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y102	2445945.07	1984 Sep 1 1338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y103	2445945.09	1984 Sep 1 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W279	2445945.10	1984 Sep 1 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W280	2445945.10	1984 Sep 1 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W281	2445945.11	1984 Sep 1 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y104	2445947.06	1984 Sep 3 1330:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y105	2445947.07	1984 Sep 3 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y106	2445947.07	1984 Sep 3 1338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W282	2445947.09	1984 Sep 3 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W283	2445947.11	1984 Sep 3 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y107	2445948.83	1984 Sep 5 0756:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W284	2445948.85	1984 Sep 5 0826:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y108	2445949.06	1984 Sep 5 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W285	2445949.06	1984 Sep 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y110	2445949.07	1984 Sep 5 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W286	2445949.07	1984 Sep 5 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y111	2445949.07	1984 Sep 5 1338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W287	2445949.07	1984 Sep 5 1338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W289	2445949.09	1984 Sep 5 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W290	2445949.10	1984 Sep 5 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y112	2445949.11	1984 Sep 5 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W291	2445949.11	1984 Sep 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W292	2445949.13	1984 Sep 5 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A31	2445951.41	1984 Sep 7 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W294	2445954.03	1984 Sep 10 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W295	2445954.17	1984 Sep 10 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W296	2445954.31	1984 Sep 10 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W298	2445955.53	1984 Sep 12 0036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W299	2445956.07	1984 Sep 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W300	2445957.32	1984 Sep 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W301	2445958.40	1984 Sep 14 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W302	2445962.03	1984 Sep 18 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W305	2445963.07	1984 Sep 19 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W306	2445964.15	1984 Sep 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y113	2445964.37	1984 Sep 20 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W307	2445964.41	1984 Sep 20 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W308	2445969.31	1984 Sep 25 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W309	2445970.16	1984 Sep 26 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y115	2445970.37	1984 Sep 26 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W311	2445970.41	1984 Sep 26 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W312	2445970.48	1984 Sep 26 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W313	2445971.32	1984 Sep 27 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W314	2445972.52	1984 Sep 29 0035:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W315	2445977.14	1984 Oct 3 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W316	2445977.21	1984 Oct 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y116	2445978.05	1984 Oct 4 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W317	2445978.07	1984 Oct 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y118	2445978.96	1984 Oct 5 1103:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A32	2445978.96	1984 Oct 5 1103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W318	2445978.98	1984 Oct 5 1127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y119	2445979.00	1984 Oct 5 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W319	2445979.01	1984 Oct 5 1215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W320	2445979.09	1984 Oct 5 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W321	2445979.31	1984 Oct 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W322	2445981.18	1984 Oct 7 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W323	2445981.18	1984 Oct 7 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W324	2445981.18	1984 Oct 7 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W325	2445983.15	1984 Oct 9 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W326	2445983.18	1984 Oct 9 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W327	2445983.22	1984 Oct 9 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W328	2445983.33	1984 Oct 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W330	2445985.18	1984 Oct 11 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W331	2445985.18	1984 Oct 11 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W332	2445985.18	1984 Oct 11 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W333	2445985.21	1984 Oct 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y120	2445986.93	1984 Oct 13 1025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W334	2445986.95	1984 Oct 13 1054:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W335	2445987.18	1984 Oct 13 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y121	2445987.19	1984 Oct 13 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y123	2445987.19	1984 Oct 13 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y124	2445987.20	1984 Oct 13 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W336	2445987.21	1984 Oct 13 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W338	2445987.21	1984 Oct 13 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W339	2445987.22	1984 Oct 13 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W340	2445987.23	1984 Oct 13 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y125	2445987.25	1984 Oct 13 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W341	2445989.38	1984 Oct 15 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W342	2445991.07	1984 Oct 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W343	2445991.08	1984 Oct 17 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W344	2445991.08	1984 Oct 17 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W345	2445991.20	1984 Oct 17 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W346	2445991.20	1984 Oct 17 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W348	2445992.00	1984 Oct 18 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W349	2445996.03	1984 Oct 22 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W352	2445998.07	1984 Oct 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W353	2445998.27	1984 Oct 24 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W354	2445998.41	1984 Oct 24 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W356	2446000.16	1984 Oct 26 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W357	2446000.17	1984 Oct 26 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A33	2446000.35	1984 Oct 26 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W358	2446000.52	1984 Oct 27 0029:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A34	2446003.35	1984 Oct 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W359	2446003.39	1984 Oct 29 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W361	2446005.07	1984 Oct 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W362	2446005.08	1984 Oct 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W363	2446005.11	1984 Oct 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W364	2446005.19	1984 Oct 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W365	2446005.29	1984 Oct 31 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W366	2446005.46	1984 Oct 31 2309:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A35	2446007.39	1984 Nov 2 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W367	2446010.35	1984 Nov 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W368	2446011.16	1984 Nov 6 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W370	2446012.38	1984 Nov 7 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y126	2446013.01	1984 Nov 8 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W371	2446013.03	1984 Nov 8 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W372	2446013.03	1984 Nov 8 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y127	2446013.05	1984 Nov 8 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W373	2446013.06	1984 Nov 8 1327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W374	2446013.08	1984 Nov 8 1355:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W375	2446014.33	1984 Nov 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W376	2446015.00	1984 Nov 10 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W377	2446015.01	1984 Nov 10 1219:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W378	2446015.01	1984 Nov 10 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W379	2446015.04	1984 Nov 10 1254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W380	2446017.00	1984 Nov 12 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W381	2446017.02	1984 Nov 12 1225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W383	2446018.20	1984 Nov 13 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W384	2446018.32	1984 Nov 13 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-W385	2446018.41	1984 Nov 13 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W387	2446019.00	1984 Nov 14 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W388	2446019.00	1984 Nov 14 1157:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W389	2446019.01	1984 Nov 14 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W390	2446019.04	1984 Nov 14 1251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W391	2446019.04	1984 Nov 14 1254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W392	2446019.36	1984 Nov 14 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y128	2446020.75	1984 Nov 16 0559:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W393	2446020.77	1984 Nov 16 0633:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W394	2446020.99	1984 Nov 16 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W395	2446021.00	1984 Nov 16 1157:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A36	2446021.00	1984 Nov 16 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y130	2446021.01	1984 Nov 16 1212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y131	2446021.01	1984 Nov 16 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W396	2446021.01	1984 Nov 16 1215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W397	2446021.01	1984 Nov 16 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W398	2446021.02	1984 Nov 16 1222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W399	2446021.02	1984 Nov 16 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W400	2446021.03	1984 Nov 16 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W401	2446021.06	1984 Nov 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W402	2446024.13	1984 Nov 19 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W403	2446025.04	1984 Nov 20 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W404	2446025.29	1984 Nov 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W405	2446025.33	1984 Nov 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W407	2446026.07	1984 Nov 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W408	2446026.20	1984 Nov 21 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W409	2446026.46	1984 Nov 21 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W410	2446031.33	1984 Nov 26 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W411	2446033.11	1984 Nov 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W412	2446033.39	1984 Nov 28 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W413	2446033.45	1984 Nov 28 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W414	2446034.15	1984 Nov 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W415	2446034.19	1984 Nov 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W416	2446035.25	1984 Nov 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y132	2446038.07	1984 Dec 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W417	2446039.31	1984 Dec 4 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y133	2446039.36	1984 Dec 4 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W418	2446039.38	1984 Dec 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W419	2446039.43	1984 Dec 4 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W421	2446040.04	1984 Dec 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W422	2446040.12	1984 Dec 5 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W423	2446040.42	1984 Dec 5 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W424	2446045.13	1984 Dec 10 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W425	2446045.20	1984 Dec 10 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W426	2446045.35	1984 Dec 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W427	2446046.10	1984 Dec 11 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W429	2446047.14	1984 Dec 12 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W430	2446047.19	1984 Dec 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W431	2446047.49	1984 Dec 12 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y134	2446049.07	1984 Dec 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W432	2446049.40	1984 Dec 14 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W433	2446049.40	1984 Dec 14 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-Y135	2446050.41	1984 Dec 15 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W434	2446050.49	1984 Dec 15 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W435	2446052.29	1984 Dec 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W436	2446053.03	1984 Dec 18 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W437	2446053.36	1984 Dec 18 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A38	2446053.38	1984 Dec 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W439	2446054.05	1984 Dec 19 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W440	2446054.10	1984 Dec 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W441	2446054.40	1984 Dec 19 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W442	2446054.45	1984 Dec 19 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-A39	2446056.35	1984 Dec 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W443	2446059.04	1984 Dec 24 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W444	2446059.04	1984 Dec 24 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W445	2446059.35	1984 Dec 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W446	2446066.35	1984 Dec 31 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W01	2446068.06	1985 Jan 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W02	2446068.07	1985 Jan 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W03	2446068.23	1985 Jan 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W04	2446069.15	1985 Jan 3 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W05	2446074.06	1985 Jan 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W07	2446075.19	1985 Jan 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W08	2446076.10	1985 Jan 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W09	2446076.16	1985 Jan 10 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W10	2446076.35	1985 Jan 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W11	2446081.03	1985 Jan 15 1243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W12	2446081.15	1985 Jan 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W14	2446082.25	1985 Jan 16 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W15	2446082.35	1985 Jan 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W16	2446082.49	1985 Jan 16 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W17	2446083.07	1985 Jan 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W18	2446084.20	1985 Jan 18 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W19	2446084.39	1985 Jan 18 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W20	2446087.03	1985 Jan 21 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W21	2446087.35	1985 Jan 21 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W22	2446087.35	1985 Jan 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W24	2446089.19	1985 Jan 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y01	2446090.08	1985 Jan 24 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W25	2446090.08	1985 Jan 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W26	2446090.10	1985 Jan 24 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y02	2446090.37	1985 Jan 24 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A01	2446090.39	1985 Jan 24 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W27	2446092.08	1985 Jan 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W28	2446092.08	1985 Jan 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W29	2446092.09	1985 Jan 26 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y03	2446093.17	1985 Jan 27 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W30	2446093.19	1985 Jan 27 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W31	2446093.35	1985 Jan 27 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y04	2446093.39	1985 Jan 27 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W32	2446093.39	1985 Jan 27 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W34	2446093.40	1985 Jan 27 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W35	2446093.41	1985 Jan 27 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W36	2446093.43	1985 Jan 27 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W37	2446093.44	1985 Jan 27 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y05	2446093.47	1985 Jan 27 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W38	2446095.33	1985 Jan 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W39	2446096.04	1985 Jan 30 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W40	2446096.31	1985 Jan 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W41	2446102.10	1985 Feb 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W42	2446102.52	1985 Feb 6 0025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W45	2446104.03	1985 Feb 7 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W46	2446104.07	1985 Feb 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W47	2446104.78	1985 Feb 8 0640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W48	2446104.82	1985 Feb 8 0744:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W49	2446104.87	1985 Feb 8 0849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W50	2446105.36	1985 Feb 8 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W51	2446105.39	1985 Feb 8 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W52	2446105.41	1985 Feb 8 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A02	2446108.38	1985 Feb 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W53	2446108.52	1985 Feb 12 0032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W55	2446110.04	1985 Feb 13 1254:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W56	2446110.08	1985 Feb 13 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W57	2446110.36	1985 Feb 13 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W58	2446111.34	1985 Feb 14 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W59	2446111.37	1985 Feb 14 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W60	2446112.35	1985 Feb 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W61	2446115.03	1985 Feb 18 1242:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W62	2446115.35	1985 Feb 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W63	2446116.05	1985 Feb 19 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W64	2446116.38	1985 Feb 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W65	2446117.42	1985 Feb 20 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W67	2446119.12	1985 Feb 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W68	2446122.36	1985 Feb 25 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W70	2446124.07	1985 Feb 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W71	2446124.15	1985 Feb 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W72	2446124.19	1985 Feb 27 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W73	2446125.38	1985 Feb 28 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W74	2446132.38	1985 Mar 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W75	2446133.35	1985 Mar 8 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W76	2446136.21	1985 Mar 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W77	2446136.27	1985 Mar 11 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W78	2446137.35	1985 Mar 12 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W79	2446138.15	1985 Mar 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W81	2446140.36	1985 Mar 15 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W82	2446144.33	1985 Mar 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W83	2446145.15	1985 Mar 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W84	2446145.19	1985 Mar 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W85	2446146.36	1985 Mar 21 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W86	2446151.19	1985 Mar 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W87	2446151.36	1985 Mar 26 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W88	2446151.38	1985 Mar 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W90	2446153.15	1985 Mar 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W91	2446153.53	1985 Mar 29 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W95	2446159.15	1985 Apr 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W96	2446159.19	1985 Apr 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W97	2446164.36	1985 Apr 8 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W98	2446165.23	1985 Apr 9 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W99	2446166.06	1985 Apr 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W100	2446166.15	1985 Apr 10 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y08	2446168.08	1985 Apr 12 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y09	2446168.11	1985 Apr 12 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W101	2446168.12	1985 Apr 12 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W102	2446168.14	1985 Apr 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W103	2446168.17	1985 Apr 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W104	2446170.08	1985 Apr 14 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W105	2446170.09	1985 Apr 14 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W106	2446170.09	1985 Apr 14 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W107	2446172.00	1985 Apr 16 1207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W108	2446172.01	1985 Apr 16 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W109	2446172.09	1985 Apr 16 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W111	2446173.38	1985 Apr 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W112	2446174.01	1985 Apr 18 1212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W113	2446174.01	1985 Apr 18 1219:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W114	2446174.03	1985 Apr 18 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y10	2446174.76	1985 Apr 19 0620:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W115	2446174.78	1985 Apr 19 0645:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y12	2446175.07	1985 Apr 19 1347:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W116	2446175.08	1985 Apr 19 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W117	2446175.08	1985 Apr 19 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W118	2446175.08	1985 Apr 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W119	2446175.08	1985 Apr 19 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W120	2446175.09	1985 Apr 19 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W121	2446175.09	1985 Apr 19 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y13	2446175.11	1985 Apr 19 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W122	2446175.12	1985 Apr 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W123	2446175.17	1985 Apr 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W124	2446178.35	1985 Apr 22 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W126	2446180.19	1985 Apr 24 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W128	2446183.16	1985 Apr 27 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y14	2446185.17	1985 Apr 29 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W129	2446185.20	1985 Apr 29 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y15	2446185.21	1985 Apr 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W130	2446185.23	1985 Apr 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W131	2446185.24	1985 Apr 29 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W132	2446185.31	1985 Apr 29 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W133	2446185.34	1985 Apr 29 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W134	2446187.17	1985 May 1 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W135	2446187.17	1985 May 1 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W136	2446189.16	1985 May 3 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W137	2446189.17	1985 May 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W138	2446189.17	1985 May 3 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W139	2446189.19	1985 May 3 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W140	2446189.31	1985 May 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W141	2446191.17	1985 May 5 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W142	2446191.17	1985 May 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W143	2446191.17	1985 May 5 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y16	2446191.92	1985 May 6 1006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W144	2446191.95	1985 May 6 1042:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W145	2446192.12	1985 May 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y17	2446192.17	1985 May 6 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W146	2446192.17	1985 May 6 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y18	2446192.18	1985 May 6 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W147	2446192.19	1985 May 6 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W148	2446192.22	1985 May 6 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W149	2446192.22	1985 May 6 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W150	2446192.24	1985 May 6 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W152	2446195.21	1985 May 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W154	2446201.07	1985 May 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W155	2446201.16	1985 May 15 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W156	2446201.31	1985 May 15 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W157	2446202.21	1985 May 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W158	2446202.36	1985 May 16 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W159	2446204.64	1985 May 19 0324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W160	2446205.90	1985 May 20 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W161	2446206.03	1985 May 20 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y19	2446208.16	1985 May 22 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W164	2446208.22	1985 May 22 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W165	2446208.31	1985 May 22 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W166	2446210.52	1985 May 25 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W167	2446214.16	1985 May 28 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W168	2446215.11	1985 May 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W169	2446215.21	1985 May 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W171	2446216.14	1985 May 30 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y20	2446220.52	1985 Jun 4 0033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W172	2446221.10	1985 Jun 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W173	2446222.30	1985 Jun 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W174	2446222.31	1985 Jun 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W175	2446226.93	1985 Jun 10 1025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W176	2446226.94	1985 Jun 10 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W177	2446228.21	1985 Jun 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W179	2446229.33	1985 Jun 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y21	2446233.98	1985 Jun 17 1133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W180	2446234.02	1985 Jun 17 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W181	2446234.03	1985 Jun 17 1242:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W182	2446234.03	1985 Jun 17 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W183	2446234.06	1985 Jun 17 1332:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W184	2446234.10	1985 Jun 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W185	2446234.77	1985 Jun 18 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W186	2446235.62	1985 Jun 19 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W187	2446236.21	1985 Jun 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W189	2446236.31	1985 Jun 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W191	2446241.05	1985 Jun 24 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W192	2446241.05	1985 Jun 24 1308:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y22	2446241.05	1985 Jun 24 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W193	2446241.07	1985 Jun 24 1335:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W194	2446241.09	1985 Jun 24 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W195	2446241.09	1985 Jun 24 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W196	2446241.11	1985 Jun 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W197	2446241.17	1985 Jun 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W199	2446250.15	1985 Jul 3 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W202	2446255.19	1985 Jul 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W203	2446256.62	1985 Jul 10 0258:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W205	2446257.34	1985 Jul 10 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W207	2446258.10	1985 Jul 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y32	2446259.35	1985 Jul 12 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W208	2446263.31	1985 Jul 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W210	2446271.31	1985 Jul 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W211	2446273.10	1985 Jul 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W212	2446276.39	1985 Jul 29 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W213	2446276.39	1985 Jul 29 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W214	2446276.41	1985 Jul 29 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y45	2446276.46	1985 Jul 29 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W215	2446276.50	1985 Jul 30 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W217	2446277.21	1985 Jul 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y68	2446312.05	1985 Sep 3 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y69	2446312.06	1985 Sep 3 1321:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W228	2446312.06	1985 Sep 3 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W229	2446312.07	1985 Sep 3 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W230	2446312.08	1985 Sep 3 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W231	2446312.10	1985 Sep 3 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W233	2446313.08	1985 Sep 4 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W235	2446313.31	1985 Sep 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W241	2446321.00	1985 Sep 12 1155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W242	2446322.00	1985 Sep 13 1206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W243	2446322.21	1985 Sep 13 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W244	2446322.33	1985 Sep 13 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W245	2446322.44	1985 Sep 13 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A06	2446327.31	1985 Sep 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W253	2446332.34	1985 Sep 23 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W254	2446334.21	1985 Sep 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W255	2446334.35	1985 Sep 25 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W256	2446340.21	1985 Oct 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y89	2446342.18	1985 Oct 3 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W260	2446342.22	1985 Oct 3 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y91	2446347.63	1985 Oct 9 0300:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y92	2446347.64	1985 Oct 9 0325:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y93	2446347.67	1985 Oct 9 0358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W261	2446347.69	1985 Oct 9 0435:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W262	2446348.21	1985 Oct 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W264	2446350.38	1985 Oct 11 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W267	2446355.21	1985 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A08	2446356.32	1985 Oct 17 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W271	2446364.38	1985 Oct 25 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W273	2446367.15	1985 Oct 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W278	2446369.20	1985 Oct 30 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W279	2446369.21	1985 Oct 30 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W280	2446369.22	1985 Oct 30 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y106	2446369.25	1985 Oct 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W281	2446369.32	1985 Oct 30 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W283	2446369.67	1985 Oct 31 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W288	2446376.24	1985 Nov 6 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W289	2446376.24	1985 Nov 6 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-Y111	2446376.24	1985 Nov 6 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W290	2446376.24	1985 Nov 6 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W291	2446376.25	1985 Nov 6 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W292	2446376.26	1985 Nov 6 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W293	2446376.28	1985 Nov 6 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A11	2446376.38	1985 Nov 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A13	2446385.29	1985 Nov 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W302	2446395.12	1985 Nov 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W303	2446396.52	1985 Nov 27 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W304	2446396.57	1985 Nov 27 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W305	2446396.59	1985 Nov 27 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W307	2446397.35	1985 Nov 27 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W312	2446403.40	1985 Dec 3 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W313	2446403.40	1985 Dec 3 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W314	2446403.40	1985 Dec 3 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W315	2446403.40	1985 Dec 3 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W316	2446403.40	1985 Dec 3 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W317	2446403.41	1985 Dec 3 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W318	2446403.44	1985 Dec 3 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W319	2446403.48	1985 Dec 3 2334:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W320	2446404.29	1985 Dec 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-A16	2446404.38	1985 Dec 4 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W323	2446406.15	1985 Dec 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W325	2446409.15	1985 Dec 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W331	2446411.38	1985 Dec 11 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W333	2446413.15	1985 Dec 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W334	2446416.09	1985 Dec 16 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W335	2446416.15	1985 Dec 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W337	2446416.46	1985 Dec 16 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W340	2446417.49	1985 Dec 17 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W343	2446418.35	1985 Dec 18 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-W345	2446423.30	1985 Dec 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A01	2446431.92	1986 Jan 1 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W01	2446434.19	1986 Jan 3 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W04	2446437.15	1986 Jan 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A02	2446439.38	1986 Jan 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W06	2446440.12	1986 Jan 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W07	2446440.13	1986 Jan 9 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W08	2446443.02	1986 Jan 12 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W09	2446443.03	1986 Jan 12 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W10	2446443.06	1986 Jan 12 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W11	2446445.47	1986 Jan 14 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W14	2446449.08	1986 Jan 18 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W15	2446449.08	1986 Jan 18 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W16	2446449.08	1986 Jan 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W18	2446453.07	1986 Jan 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A03	2446453.13	1986 Jan 22 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W19	2446455.17	1986 Jan 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W20	2446458.30	1986 Jan 27 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W21	2446459.19	1986 Jan 28 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W22	2446460.30	1986 Jan 29 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W24	2446466.46	1986 Feb 4 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W28	2446469.30	1986 Feb 7 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W29	2446469.31	1986 Feb 7 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W32	2446474.38	1986 Feb 12 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W33	2446474.47	1986 Feb 12 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W39	2446482.07	1986 Feb 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W40	2446482.14	1986 Feb 20 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W41	2446482.60	1986 Feb 21 0220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W43	2446483.18	1986 Feb 21 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W45	2446488.30	1986 Feb 26 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W52	2446495.35	1986 Mar 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A04	2446497.40	1986 Mar 7 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W54	2446497.44	1986 Mar 7 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W55	2446500.56	1986 Mar 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W57	2446503.47	1986 Mar 13 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W60	2446507.83	1986 Mar 18 0758:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W61	2446507.88	1986 Mar 18 0911:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W62	2446507.92	1986 Mar 18 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A05	2446509.38	1986 Mar 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W68	2446516.10	1986 Mar 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W69	2446516.10	1986 Mar 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W70	2446516.15	1986 Mar 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A07	2446516.29	1986 Mar 26 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W78	2446542.19	1986 Apr 21 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W79	2446544.12	1986 Apr 23 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W81	2446545.16	1986 Apr 24 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W82	2446545.52	1986 Apr 25 0023:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W84	2446548.90	1986 Apr 28 0937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W85	2446548.97	1986 Apr 28 1119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W86	2446548.98	1986 Apr 28 1135:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W88	2446551.10	1986 Apr 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W89	2446553.29	1986 May 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W94	2446560.30	1986 May 9 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W95	2446564.09	1986 May 13 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W96	2446564.29	1986 May 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W101	2446572.29	1986 May 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W102	2446573.38	1986 May 22 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W105	2446580.29	1986 May 29 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W107	2446598.38	1986 Jun 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W108	2446599.38	1986 Jun 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W109	2446599.41	1986 Jun 17 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W110	2446600.31	1986 Jun 18 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W111	2446602.38	1986 Jun 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W112	2446605.08	1986 Jun 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W113	2446606.24	1986 Jun 24 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W115	2446608.25	1986 Jun 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W116	2446609.21	1986 Jun 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W121	2446622.43	1986 Jul 10 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W122	2446623.43	1986 Jul 11 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W123	2446623.45	1986 Jul 11 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W125	2446629.46	1986 Jul 17 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W126	2446634.41	1986 Jul 22 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W128	2446636.30	1986 Jul 24 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W129	2446637.67	1986 Jul 26 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W130	2446637.70	1986 Jul 26 0442:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W131	2446640.43	1986 Jul 28 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W132	2446640.45	1986 Jul 28 2242:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W133	2446644.65	1986 Aug 2 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W134	2446644.67	1986 Aug 2 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W135	2446648.44	1986 Aug 5 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W138	2446656.23	1986 Aug 13 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W139	2446658.30	1986 Aug 15 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W141	2446664.25	1986 Aug 21 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W142	2446664.95	1986 Aug 22 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W143	2446665.06	1986 Aug 22 1327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W144	2446665.17	1986 Aug 22 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-W145	2446666.27	1986 Aug 23 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W146	2446666.34	1986 Aug 23 2011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W147	2446668.42	1986 Aug 25 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W149	2446671.09	1986 Aug 28 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W150	2446674.30	1986 Aug 31 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W151	2446674.39	1986 Aug 31 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W152	2446678.21	1986 Sep 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W155	2446686.22	1986 Sep 12 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W156	2446686.44	1986 Sep 12 2230:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W158	2446692.08	1986 Sep 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W160	2446693.87	1986 Sep 20 0854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W161	2446693.95	1986 Sep 20 1043:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W164	2446696.43	1986 Sep 22 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W165	2446696.44	1986 Sep 22 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W168	2446697.86	1986 Sep 24 0845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W169	2446698.06	1986 Sep 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W171	2446699.09	1986 Sep 25 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W173	2446703.81	1986 Sep 30 0729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W174	2446703.91	1986 Sep 30 0951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W175	2446703.96	1986 Sep 30 1057:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W176	2446704.02	1986 Sep 30 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-Y221	2446704.18	1986 Sep 30 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W177	2446704.27	1986 Sep 30 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W178	2446705.29	1986 Oct 1 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W179	2446707.20	1986 Oct 3 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W180	2446712.03	1986 Oct 8 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W181	2446713.15	1986 Oct 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W182	2446713.43	1986 Oct 9 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W183	2446714.25	1986 Oct 10 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W184	2446718.20	1986 Oct 14 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W185	2446718.42	1986 Oct 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W187	2446720.14	1986 Oct 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W188	2446721.12	1986 Oct 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W189	2446725.19	1986 Oct 21 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W190	2446725.42	1986 Oct 21 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A10	2446726.08	1986 Oct 22 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W191	2446726.11	1986 Oct 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W192	2446726.29	1986 Oct 22 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W194	2446732.34	1986 Oct 28 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W196	2446733.12	1986 Oct 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W197	2446734.05	1986 Oct 30 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W198	2446740.04	1986 Nov 5 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W199	2446740.11	1986 Nov 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W200	2446741.19	1986 Nov 6 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W201	2446742.29	1986 Nov 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W203	2446747.07	1986 Nov 12 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W204	2446747.20	1986 Nov 12 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W205	2446748.10	1986 Nov 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-A11	2446753.92	1986 Nov 19 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W207	2446754.10	1986 Nov 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W208	2446755.92	1986 Nov 21 1007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W209	2446761.14	1986 Nov 26 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W210	2446763.05	1986 Nov 28 1317:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W211	2446766.12	1986 Dec 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W212	2446766.30	1986 Dec 1 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W214	2446768.12	1986 Dec 3 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W215	2446768.12	1986 Dec 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-Y223	2446769.62	1986 Dec 5 0255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W216	2446770.45	1986 Dec 5 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W217	2446774.41	1986 Dec 9 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W219	2446777.31	1986 Dec 12 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W220	2446780.05	1986 Dec 15 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W221	2446781.20	1986 Dec 16 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-Y224	2446782.17	1986 Dec 17 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W223	2446787.31	1986 Dec 22 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W224	2446788.15	1986 Dec 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W226	2446789.03	1986 Dec 24 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1986-W227	2446794.03	1986 Dec 29 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W10	2446803.03	1987 Jan 7 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W12	2446803.25	1987 Jan 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W13	2446803.27	1987 Jan 7 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W15	2446804.16	1987 Jan 8 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W16	2446804.42	1987 Jan 8 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W21	2446808.26	1987 Jan 12 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W25	2446810.14	1987 Jan 14 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W26	2446810.25	1987 Jan 14 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W27	2446811.20	1987 Jan 15 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y18	2446811.25	1987 Jan 15 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W28	2446811.27	1987 Jan 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y20	2446812.14	1987 Jan 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y24	2446816.10	1987 Jan 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y25	2446816.15	1987 Jan 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W32	2446817.04	1987 Jan 21 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A02	2446817.34	1987 Jan 21 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W34	2446819.05	1987 Jan 23 1312:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W35	2446823.88	1987 Jan 28 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-W36	2446823.88	1987 Jan 28 0904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A03	2446824.14	1987 Jan 28 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W37	2446825.02	1987 Jan 29 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W38	2446826.16	1987 Jan 30 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W40	2446831.04	1987 Feb 4 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W43	2446832.16	1987 Feb 5 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W44	2446838.02	1987 Feb 11 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W45	2446838.16	1987 Feb 11 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A04	2446840.21	1987 Feb 13 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W46	2446840.26	1987 Feb 13 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W48	2446845.04	1987 Feb 18 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W49	2446845.23	1987 Feb 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W50	2446850.15	1987 Feb 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W53	2446854.06	1987 Feb 27 1321:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W54	2446854.44	1987 Feb 27 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W56	2446857.34	1987 Mar 2 2011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W60	2446859.15	1987 Mar 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W61	2446860.07	1987 Mar 5 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W66	2446866.14	1987 Mar 11 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y103	2446870.88	1987 Mar 16 0906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W67	2446872.30	1987 Mar 17 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W70	2446873.38	1987 Mar 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W71	2446874.15	1987 Mar 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W73	2446876.14	1987 Mar 21 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W74	2446878.16	1987 Mar 23 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W75	2446879.08	1987 Mar 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W76	2446879.23	1987 Mar 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W80	2446880.17	1987 Mar 25 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W84	2446887.94	1987 Apr 2 1036:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W85	2446887.97	1987 Apr 2 1123:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W86	2446888.03	1987 Apr 2 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y122	2446888.10	1987 Apr 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W87	2446888.15	1987 Apr 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W89	2446892.26	1987 Apr 6 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W92	2446894.10	1987 Apr 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W93	2446895.10	1987 Apr 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W94	2446895.15	1987 Apr 9 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W96	2446896.11	1987 Apr 10 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A06	2446901.95	1987 Apr 16 1054:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W98	2446902.00	1987 Apr 16 1155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A07	2446902.02	1987 Apr 16 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W99	2446902.08	1987 Apr 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W100	2446902.42	1987 Apr 16 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W101	2446903.31	1987 Apr 17 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W102	2446903.69	1987 Apr 18 0435:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W103	2446903.73	1987 Apr 18 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y141	2446908.26	1987 Apr 22 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W107	2446908.26	1987 Apr 22 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W108	2446908.27	1987 Apr 22 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W110	2446909.24	1987 Apr 23 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y143	2446909.24	1987 Apr 23 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W111	2446909.25	1987 Apr 23 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W113	2446910.09	1987 Apr 24 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W114	2446910.10	1987 Apr 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W116	2446914.08	1987 Apr 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W118	2446915.10	1987 Apr 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W119	2446916.42	1987 Apr 30 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y151	2446916.43	1987 Apr 30 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W120	2446916.47	1987 Apr 30 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W121	2446920.42	1987 May 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W123	2446922.04	1987 May 6 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y157	2446924.23	1987 May 8 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W124	2446924.24	1987 May 8 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W125	2446926.00	1987 May 10 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W126	2446926.04	1987 May 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W127	2446926.07	1987 May 10 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W128	2446928.00	1987 May 12 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W131	2446929.21	1987 May 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W132	2446931.30	1987 May 15 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W133	2446935.12	1987 May 19 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W134	2446935.13	1987 May 19 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W137	2446936.29	1987 May 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W138	2446936.74	1987 May 21 0541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W139	2446937.29	1987 May 21 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W142	2446945.04	1987 May 29 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W144	2446950.01	1987 Jun 3 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W145	2446950.08	1987 Jun 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W147	2446950.22	1987 Jun 3 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W148	2446950.23	1987 Jun 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W150	2446956.03	1987 Jun 9 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y181	2446957.23	1987 Jun 10 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W154	2446957.25	1987 Jun 10 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W155	2446958.08	1987 Jun 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W157	2446959.51	1987 Jun 13 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W159	2446962.06	1987 Jun 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W160	2446962.10	1987 Jun 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-W163	2446964.00	1987 Jun 17 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W166	2446966.62	1987 Jun 20 0257:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W167	2446969.46	1987 Jun 22 2306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W168	2446970.06	1987 Jun 23 1326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W172	2446971.17	1987 Jun 24 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y193	2446972.05	1987 Jun 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W173	2446972.10	1987 Jun 25 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W179	2446984.70	1987 Jul 8 0454:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A11	2446984.79	1987 Jul 8 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W182	2446986.40	1987 Jul 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W186	2446992.06	1987 Jul 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W188	2446992.42	1987 Jul 15 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W190	2446994.10	1987 Jul 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W192	2446997.43	1987 Jul 20 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W196	2447001.11	1987 Jul 24 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W202	2447012.09	1987 Aug 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W204	2447014.41	1987 Aug 6 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W205	2447018.32	1987 Aug 10 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W206	2447019.03	1987 Aug 11 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W208	2447020.41	1987 Aug 12 2154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W209	2447020.43	1987 Aug 12 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W210	2447021.10	1987 Aug 13 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W211	2447025.21	1987 Aug 17 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W214	2447028.12	1987 Aug 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W215	2447029.31	1987 Aug 21 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W216	2447031.74	1987 Aug 24 0546:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W217	2447035.09	1987 Aug 27 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A12	2447036.27	1987 Aug 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A13	2447037.57	1987 Aug 30 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W219	2447041.22	1987 Sep 2 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A14	2447042.09	1987 Sep 3 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-Y282	2447046.10	1987 Sep 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W222	2447047.45	1987 Sep 8 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W223	2447047.49	1987 Sep 8 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W224	2447047.53	1987 Sep 9 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W227	2447054.21	1987 Sep 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W228	2447055.08	1987 Sep 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W230	2447055.33	1987 Sep 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W232	2447059.88	1987 Sep 21 0913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W233	2447060.01	1987 Sep 21 1218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W234	2447061.09	1987 Sep 22 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W235	2447061.11	1987 Sep 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W236	2447061.42	1987 Sep 22 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W240	2447068.08	1987 Sep 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W241	2447068.24	1987 Sep 29 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W243	2447071.21	1987 Oct 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W245	2447072.95	1987 Oct 4 1049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W246	2447074.27	1987 Oct 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W247	2447075.22	1987 Oct 6 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W249	2447076.09	1987 Oct 7 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W250	2447077.97	1987 Oct 9 1113:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W251	2447082.11	1987 Oct 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W254	2447084.10	1987 Oct 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W259	2447091.07	1987 Oct 22 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W260	2447091.11	1987 Oct 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W262	2447095.45	1987 Oct 26 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A18	2447097.59	1987 Oct 29 0206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W266	2447098.10	1987 Oct 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A19	2447102.16	1987 Nov 2 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W267	2447102.86	1987 Nov 3 0837:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W268	2447104.45	1987 Nov 4 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W269	2447105.10	1987 Nov 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W270	2447105.12	1987 Nov 5 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W281	2447118.77	1987 Nov 19 0634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W282	2447120.15	1987 Nov 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W287	2447127.15	1987 Nov 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W288	2447128.68	1987 Nov 29 0418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A21	2447131.10	1987 Dec 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W291	2447131.33	1987 Dec 1 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W292	2447131.47	1987 Dec 1 2321:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W297	2447133.19	1987 Dec 3 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W305	2447139.25	1987 Dec 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W307	2447141.07	1987 Dec 11 1335:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W308	2447141.08	1987 Dec 11 1355:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-W309	2447141.12	1987 Dec 11 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1987-A22	2447147.12	1987 Dec 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W02	2447173.19	1988 Jan 12 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W03	2447174.22	1988 Jan 13 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-A01	2447175.08	1988 Jan 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W10	2447181.13	1988 Jan 20 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-A02	2447181.14	1988 Jan 20 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W13	2447181.98	1988 Jan 21 1137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W14	2447182.03	1988 Jan 21 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W17	2447183.49	1988 Jan 22 2341:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W21	2447189.10	1988 Jan 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y41	2447190.18	1988 Jan 29 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-W23	2447194.08	1988 Feb 2 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y45	2447197.09	1988 Feb 5 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W25	2447198.36	1988 Feb 6 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W26	2447200.44	1988 Feb 8 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W27	2447200.46	1988 Feb 8 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W29	2447204.10	1988 Feb 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W31	2447207.21	1988 Feb 15 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W39	2447216.21	1988 Feb 24 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W42	2447217.16	1988 Feb 25 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y60	2447218.06	1988 Feb 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y61	2447219.19	1988 Feb 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W46	2447219.24	1988 Feb 27 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W52	2447229.10	1988 Mar 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W55	2447231.11	1988 Mar 10 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W57	2447237.12	1988 Mar 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W61	2447239.10	1988 Mar 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W63	2447242.25	1988 Mar 21 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W66	2447246.10	1988 Mar 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W69	2447251.05	1988 Mar 30 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W76	2447260.05	1988 Apr 8 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W80	2447263.36	1988 Apr 11 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W83	2447265.04	1988 Apr 13 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W85	2447265.54	1988 Apr 14 0100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W87	2447266.13	1988 Apr 14 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W88	2447267.27	1988 Apr 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W89	2447267.36	1988 Apr 15 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-A05	2447268.14	1988 Apr 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W96	2447278.34	1988 Apr 26 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W98	2447279.07	1988 Apr 27 1341:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W104	2447288.05	1988 May 6 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W106	2447293.04	1988 May 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W109	2447306.05	1988 May 24 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W110	2447306.07	1988 May 24 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W118	2447316.16	1988 Jun 3 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W119	2447319.08	1988 Jun 6 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W120	2447320.41	1988 Jun 7 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W124	2447328.33	1988 Jun 15 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W125	2447329.42	1988 Jun 16 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W127	2447330.14	1988 Jun 17 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W129	2447335.05	1988 Jun 22 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W134	2447343.26	1988 Jun 30 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W137	2447357.42	1988 Jul 14 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W142	2447385.23	1988 Aug 11 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W144	2447391.04	1988 Aug 17 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W147	2447398.01	1988 Aug 24 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W149	2447398.37	1988 Aug 24 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W150	2447399.19	1988 Aug 25 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W154	2447405.01	1988 Aug 31 1217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W156	2447407.42	1988 Sep 2 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W161	2447419.20	1988 Sep 14 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y224	2447420.42	1988 Sep 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W162	2447420.44	1988 Sep 15 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W165	2447426.05	1988 Sep 21 1311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W167	2447427.44	1988 Sep 22 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W169	2447428.92	1988 Sep 24 1009:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W171	2447433.31	1988 Sep 28 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y231	2447434.01	1988 Sep 29 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W173	2447434.03	1988 Sep 29 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W174	2447434.06	1988 Sep 29 1329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W175	2447434.07	1988 Sep 29 1333:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y232	2447434.09	1988 Sep 29 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W176	2447434.11	1988 Sep 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W177	2447434.14	1988 Sep 29 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y233	2447436.09	1988 Oct 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W178	2447436.12	1988 Oct 1 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y234	2447438.04	1988 Oct 3 1300:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W179	2447438.06	1988 Oct 3 1329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W180	2447438.21	1988 Oct 3 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W181	2447440.04	1988 Oct 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W183	2447454.91	1988 Oct 20 0956:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W186	2447463.44	1988 Oct 28 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y251	2447467.49	1988 Nov 1 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W205	2447495.43	1988 Nov 29 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y274	2447498.11	1988 Dec 2 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y275	2447498.13	1988 Dec 2 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y276	2447498.15	1988 Dec 2 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W207	2447498.18	1988 Dec 2 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W208	2447498.21	1988 Dec 2 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y277	2447498.21	1988 Dec 2 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y278	2447500.09	1988 Dec 4 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W209	2447500.22	1988 Dec 4 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W210	2447500.27	1988 Dec 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y279	2447502.09	1988 Dec 6 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-Y280	2447502.11	1988 Dec 6 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W211	2447502.13	1988 Dec 6 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W212	2447502.18	1988 Dec 6 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-W213	2447502.52	1988 Dec 7 0031:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1988-W218	2447510.33	1988 Dec 14 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W06	2447531.12	1989 Jan 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W08	2447531.14	1989 Jan 4 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W14	2447535.12	1989 Jan 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W16	2447535.99	1989 Jan 9 1142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W17	2447536.03	1989 Jan 9 1246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W23	2447538.13	1989 Jan 11 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W29	2447545.12	1989 Jan 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W30	2447546.15	1989 Jan 19 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W32	2447550.06	1989 Jan 23 1332:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W36	2447552.10	1989 Jan 25 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W37	2447552.10	1989 Jan 25 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W39	2447552.92	1989 Jan 26 0958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y24	2447552.95	1989 Jan 26 1046:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W42	2447553.51	1989 Jan 27 0011:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W46	2447559.32	1989 Feb 1 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W53	2447567.17	1989 Feb 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W55	2447568.34	1989 Feb 10 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W56	2447569.10	1989 Feb 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W58	2447573.13	1989 Feb 15 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W61	2447580.03	1989 Feb 22 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W63	2447580.12	1989 Feb 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W65	2447581.15	1989 Feb 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W68	2447583.99	1989 Feb 26 1146:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W69	2447585.15	1989 Feb 27 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W70	2447587.12	1989 Mar 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W71	2447587.15	1989 Mar 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W73	2447594.11	1989 Mar 8 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W74	2447594.15	1989 Mar 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W76	2447598.12	1989 Mar 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y75	2447598.96	1989 Mar 13 1103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y76	2447599.00	1989 Mar 13 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W77	2447599.02	1989 Mar 13 1225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W78	2447599.06	1989 Mar 13 1329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W80	2447600.15	1989 Mar 14 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W81	2447600.94	1989 Mar 15 1033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W82	2447600.96	1989 Mar 15 1102:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W83	2447601.00	1989 Mar 15 1201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W84	2447601.05	1989 Mar 15 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W86	2447601.12	1989 Mar 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W89	2447602.21	1989 Mar 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y79	2447602.97	1989 Mar 17 1120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W91	2447603.00	1989 Mar 17 1157:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W92	2447603.11	1989 Mar 17 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y81	2447603.90	1989 Mar 18 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y82	2447603.91	1989 Mar 18 0956:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W93	2447603.95	1989 Mar 18 1045:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W94	2447603.98	1989 Mar 18 1130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W95	2447603.99	1989 Mar 18 1148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y83	2447604.11	1989 Mar 18 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W96	2447604.13	1989 Mar 18 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W97	2447604.14	1989 Mar 18 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W99	2447606.12	1989 Mar 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W100	2447608.14	1989 Mar 22 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W101	2447609.15	1989 Mar 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W102	2447615.13	1989 Mar 29 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W104	2447621.32	1989 Apr 4 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W107	2447628.09	1989 Apr 11 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W108	2447628.13	1989 Apr 11 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W111	2447635.92	1989 Apr 19 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A03	2447636.08	1989 Apr 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W114	2447636.08	1989 Apr 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W115	2447636.09	1989 Apr 19 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W117	2447643.22	1989 Apr 26 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W118	2447644.27	1989 Apr 27 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y101	2447645.14	1989 Apr 28 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W119	2447645.19	1989 Apr 28 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y102	2447649.38	1989 May 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W120	2447649.39	1989 May 2 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W122	2447650.05	1989 May 3 1310:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W123	2447650.22	1989 May 3 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y107	2447651.32	1989 May 4 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W125	2447651.34	1989 May 4 2013:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y108	2447651.38	1989 May 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y109	2447651.40	1989 May 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W126	2447651.42	1989 May 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y110	2447652.15	1989 May 5 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W127	2447652.17	1989 May 5 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W128	2447652.22	1989 May 5 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y111	2447655.10	1989 May 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y112	2447655.11	1989 May 8 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W129	2447655.12	1989 May 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y113	2447655.13	1989 May 8 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W130	2447655.17	1989 May 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W131	2447655.19	1989 May 8 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-Y114	2447655.21	1989 May 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y115	2447655.32	1989 May 8 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W132	2447655.32	1989 May 8 1943:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W133	2447655.34	1989 May 8 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W134	2447655.38	1989 May 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W138	2447658.07	1989 May 11 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A04	2447662.12	1989 May 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W140	2447662.21	1989 May 15 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W142	2447665.08	1989 May 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W143	2447665.14	1989 May 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W145	2447666.08	1989 May 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W146	2447669.08	1989 May 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W150	2447671.09	1989 May 24 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W157	2447684.12	1989 Jun 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W160	2447686.12	1989 Jun 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W162	2447691.21	1989 Jun 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W164	2447692.09	1989 Jun 14 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W168	2447694.09	1989 Jun 16 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W169	2447697.21	1989 Jun 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W170	2447698.21	1989 Jun 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W175	2447699.28	1989 Jun 21 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W176	2447700.45	1989 Jun 22 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W178	2447704.21	1989 Jun 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W181	2447706.08	1989 Jun 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y149	2447719.06	1989 Jul 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y154	2447727.08	1989 Jul 19 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W187	2447741.17	1989 Aug 2 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W189	2447746.08	1989 Aug 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y166	2447747.04	1989 Aug 8 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W190	2447747.09	1989 Aug 8 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y167	2447747.10	1989 Aug 8 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W191	2447747.12	1989 Aug 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W192	2447748.12	1989 Aug 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W194	2447748.26	1989 Aug 9 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W195	2447749.02	1989 Aug 10 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W196	2447749.06	1989 Aug 10 1322:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A05	2447749.10	1989 Aug 10 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W197	2447750.10	1989 Aug 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y172	2447751.93	1989 Aug 13 1020:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W198	2447751.96	1989 Aug 13 1057:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W199	2447751.96	1989 Aug 13 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W200	2447752.00	1989 Aug 13 1154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W201	2447752.00	1989 Aug 13 1155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y173	2447752.07	1989 Aug 13 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W202	2447752.07	1989 Aug 13 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W203	2447752.09	1989 Aug 13 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W204	2447752.14	1989 Aug 13 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W205	2447755.10	1989 Aug 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W208	2447763.20	1989 Aug 24 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W209	2447764.06	1989 Aug 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W213	2447771.08	1989 Sep 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A07	2447775.60	1989 Sep 6 0223:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W224	2447785.21	1989 Sep 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W225	2447792.21	1989 Sep 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W226	2447796.23	1989 Sep 26 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W227	2447798.19	1989 Sep 28 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W229	2447804.10	1989 Oct 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W235	2447811.18	1989 Oct 11 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W238	2447816.10	1989 Oct 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W239	2447817.09	1989 Oct 17 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y251	2447818.27	1989 Oct 18 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W243	2447818.29	1989 Oct 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W244	2447818.39	1989 Oct 18 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y252	2447818.40	1989 Oct 18 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W245	2447819.10	1989 Oct 19 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W246	2447820.08	1989 Oct 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A09	2447823.21	1989 Oct 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W251	2447823.22	1989 Oct 23 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W252	2447823.26	1989 Oct 23 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W253	2447823.33	1989 Oct 23 1948:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W255	2447825.06	1989 Oct 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W256	2447825.09	1989 Oct 25 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W258	2447830.04	1989 Oct 30 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W259	2447831.23	1989 Oct 31 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W260	2447832.09	1989 Nov 1 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y272	2447832.12	1989 Nov 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W261	2447833.24	1989 Nov 2 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W263	2447838.23	1989 Nov 7 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W267	2447839.13	1989 Nov 8 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W270	2447846.44	1989 Nov 15 2236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W272	2447852.09	1989 Nov 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W273	2447852.25	1989 Nov 21 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W276	2447853.08	1989 Nov 22 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W277	2447853.17	1989 Nov 22 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W278	2447853.34	1989 Nov 22 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y289	2447853.54	1989 Nov 23 0102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-W279	2447853.60	1989 Nov 23 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W280	2447857.09	1989 Nov 26 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y291	2447857.10	1989 Nov 26 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y292	2447857.13	1989 Nov 26 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W281	2447857.13	1989 Nov 26 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W283	2447858.52	1989 Nov 28 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W284	2447858.52	1989 Nov 28 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y294	2447858.54	1989 Nov 28 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y295	2447858.55	1989 Nov 28 0106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W285	2447858.56	1989 Nov 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y296	2447858.58	1989 Nov 28 0158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W286	2447858.59	1989 Nov 28 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W287	2447858.61	1989 Nov 28 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W289	2447860.12	1989 Nov 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W291	2447860.28	1989 Nov 29 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y299	2447865.23	1989 Dec 4 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A12	2447865.31	1989 Dec 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W292	2447867.12	1989 Dec 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W293	2447867.15	1989 Dec 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-A13	2447869.49	1989 Dec 8 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y306	2447874.11	1989 Dec 13 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W295	2447874.13	1989 Dec 13 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y308	2447874.14	1989 Dec 13 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W296	2447874.18	1989 Dec 13 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W297	2447874.20	1989 Dec 13 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W298	2447876.11	1989 Dec 15 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W299	2447876.17	1989 Dec 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-Y309	2447876.19	1989 Dec 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W300	2447876.22	1989 Dec 15 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W301	2447878.19	1989 Dec 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W302	2447879.43	1989 Dec 18 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W305	2447887.27	1989 Dec 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1989-W306	2447889.44	1989 Dec 28 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W31	2447909.13	1990 Jan 17 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W32	2447910.75	1990 Jan 19 0557:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y51	2447910.75	1990 Jan 19 0604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y52	2447910.77	1990 Jan 19 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W34	2447910.82	1990 Jan 19 0737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W36	2447911.67	1990 Jan 20 0401:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W37	2447911.71	1990 Jan 20 0458:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W49	2447916.43	1990 Jan 24 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y75	2447916.46	1990 Jan 24 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W63	2447923.12	1990 Jan 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W73	2447930.43	1990 Feb 7 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W79	2447937.01	1990 Feb 14 1212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W82	2447937.12	1990 Feb 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y199	2447955.14	1990 Mar 4 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W104	2447955.16	1990 Mar 4 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W105	2447955.20	1990 Mar 4 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W114	2447958.44	1990 Mar 7 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y219	2447958.45	1990 Mar 7 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y262	2447978.98	1990 Mar 28 1132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y266	2447993.46	1990 Apr 11 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y267	2448007.42	1990 Apr 25 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W136	2448010.95	1990 Apr 29 1041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W137	2448010.98	1990 Apr 29 1137:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W138	2448020.38	1990 May 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y268	2448020.41	1990 May 8 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y269	2448020.44	1990 May 8 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W139	2448020.53	1990 May 9 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y270	2448035.40	1990 May 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W146	2448069.06	1990 Jun 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W147	2448090.15	1990 Jul 17 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W148	2448092.08	1990 Jul 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W149	2448096.00	1990 Jul 23 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W150	2448104.06	1990 Jul 31 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W151	2448111.08	1990 Aug 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W152	2448120.08	1990 Aug 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W153	2448125.19	1990 Aug 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-A05	2448125.90	1990 Aug 22 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W154	2448127.08	1990 Aug 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W156	2448134.10	1990 Aug 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W158	2448152.05	1990 Sep 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-A06	2448154.08	1990 Sep 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W159	2448154.11	1990 Sep 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y272	2448154.39	1990 Sep 19 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W160	2448156.24	1990 Sep 21 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y273	2448160.39	1990 Sep 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W162	2448161.28	1990 Sep 26 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W163	2448162.08	1990 Sep 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W164	2448166.04	1990 Oct 1 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W165	2448170.07	1990 Oct 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y274	2448171.03	1990 Oct 6 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W166	2448171.08	1990 Oct 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y275	2448174.86	1990 Oct 10 0833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y276	2448174.90	1990 Oct 10 0931:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-W167	2448174.91	1990 Oct 10 0953:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W168	2448174.94	1990 Oct 10 1033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W169	2448174.95	1990 Oct 10 1042:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W170	2448174.98	1990 Oct 10 1137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W173	2448182.06	1990 Oct 17 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y277	2448182.39	1990 Oct 17 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y278	2448189.40	1990 Oct 24 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-W175	2448194.12	1990 Oct 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1990-Y279	2448196.43	1990 Oct 31 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W22	2448263.12	1991 Jan 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y01	2448266.43	1991 Jan 9 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W23	2448273.23	1991 Jan 16 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W24	2448274.12	1991 Jan 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y02	2448280.43	1991 Jan 23 2220:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W25	2448285.91	1991 Jan 29 0945:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W26	2448287.12	1991 Jan 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W27	2448292.89	1991 Feb 5 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W28	2448293.12	1991 Feb 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W31	2448301.12	1991 Feb 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W32	2448301.23	1991 Feb 13 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W33	2448306.88	1991 Feb 19 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y03	2448308.43	1991 Feb 20 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W34	2448315.13	1991 Feb 27 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y04	2448315.43	1991 Feb 27 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W35	2448322.23	1991 Mar 6 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W36	2448323.12	1991 Mar 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W37	2448329.23	1991 Mar 13 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W38	2448329.42	1991 Mar 13 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W39	2448335.86	1991 Mar 20 0832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y05	2448336.43	1991 Mar 20 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y06	2448336.44	1991 Mar 20 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W40	2448343.23	1991 Mar 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W41	2448343.26	1991 Mar 27 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y07	2448343.43	1991 Mar 27 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W42	2448348.88	1991 Apr 2 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W43	2448349.11	1991 Apr 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W44	2448350.12	1991 Apr 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W45	2448350.17	1991 Apr 3 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W46	2448351.12	1991 Apr 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y08	2448352.13	1991 Apr 5 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W47	2448352.23	1991 Apr 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y09	2448356.96	1991 Apr 10 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y10	2448356.98	1991 Apr 10 1130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W48	2448357.00	1991 Apr 10 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W49	2448357.04	1991 Apr 10 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W50	2448357.06	1991 Apr 10 1326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y11	2448357.39	1991 Apr 10 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y12	2448357.94	1991 Apr 11 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W51	2448357.96	1991 Apr 11 1102:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y13	2448357.98	1991 Apr 11 1135:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W52	2448358.00	1991 Apr 11 1206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W53	2448358.01	1991 Apr 11 1211:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W54	2448358.08	1991 Apr 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W55	2448358.49	1991 Apr 11 2340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W56	2448362.55	1991 Apr 16 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W57	2448364.08	1991 Apr 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y14	2448364.39	1991 Apr 17 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W58	2448369.12	1991 Apr 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y15	2448371.39	1991 Apr 24 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W59	2448373.17	1991 Apr 26 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y16	2448375.01	1991 Apr 28 1218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W60	2448375.05	1991 Apr 28 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y17	2448376.19	1991 Apr 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W61	2448380.08	1991 May 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W62	2448383.08	1991 May 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W63	2448383.13	1991 May 6 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y18	2448383.14	1991 May 6 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W64	2448383.17	1991 May 6 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W65	2448383.27	1991 May 6 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y19	2448383.30	1991 May 6 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W66	2448383.35	1991 May 6 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W67	2448392.19	1991 May 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W68	2448404.19	1991 May 27 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W69	2448405.08	1991 May 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W70	2448405.74	1991 May 29 0549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W71	2448408.07	1991 May 31 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W72	2448412.06	1991 Jun 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y20	2448413.10	1991 Jun 5 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W73	2448413.13	1991 Jun 5 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W74	2448415.07	1991 Jun 7 1333:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W75	2448422.00	1991 Jun 14 1200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W76	2448422.04	1991 Jun 14 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W77	2448422.05	1991 Jun 14 1318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W78	2448422.10	1991 Jun 14 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W79	2448425.08	1991 Jun 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W80	2448434.20	1991 Jun 26 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-W81	2448435.57	1991 Jun 28 0138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W82	2448436.30	1991 Jun 28 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W83	2448439.08	1991 Jul 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W84	2448439.27	1991 Jul 1 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W85	2448455.08	1991 Jul 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W86	2448455.21	1991 Jul 17 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W87	2448461.12	1991 Jul 23 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W88	2448467.43	1991 Jul 29 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W89	2448469.11	1991 Jul 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y26	2448471.17	1991 Aug 2 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W90	2448471.20	1991 Aug 2 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y32	2448479.81	1991 Aug 11 0730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y33	2448479.83	1991 Aug 11 0800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W91	2448479.85	1991 Aug 11 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W92	2448479.90	1991 Aug 11 0933:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W93	2448479.93	1991 Aug 11 1021:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W94	2448479.94	1991 Aug 11 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W95	2448479.99	1991 Aug 11 1152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W96	2448480.03	1991 Aug 11 1237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W97	2448480.05	1991 Aug 11 1312:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W98	2448480.07	1991 Aug 11 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W99	2448485.56	1991 Aug 17 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W100	2448488.08	1991 Aug 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W101	2448497.47	1991 Aug 28 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y34	2448499.53	1991 Aug 31 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W102	2448499.61	1991 Aug 31 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W103	2448501.08	1991 Sep 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W105	2448511.14	1991 Sep 11 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W106	2448511.22	1991 Sep 11 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W107	2448511.44	1991 Sep 11 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y35	2448512.51	1991 Sep 13 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W109	2448512.53	1991 Sep 13 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W110	2448523.89	1991 Sep 24 0922:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W111	2448532.37	1991 Oct 2 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W112	2448539.22	1991 Oct 9 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W113	2448539.43	1991 Oct 9 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W114	2448543.12	1991 Oct 13 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W115	2448546.08	1991 Oct 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W116	2448546.51	1991 Oct 17 0008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W117	2448553.08	1991 Oct 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W118	2448560.12	1991 Oct 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y36	2448560.42	1991 Oct 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W119	2448560.44	1991 Oct 30 2232:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y37	2448561.92	1991 Nov 1 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W120	2448565.42	1991 Nov 4 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y38	2448567.14	1991 Nov 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W121	2448567.16	1991 Nov 6 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W122	2448572.05	1991 Nov 11 1313:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W123	2448572.35	1991 Nov 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W124	2448574.14	1991 Nov 13 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W125	2448579.15	1991 Nov 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W126	2448581.13	1991 Nov 20 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W127	2448583.14	1991 Nov 22 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W128	2448588.14	1991 Nov 27 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W129	2448596.42	1991 Dec 5 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W130	2448597.28	1991 Dec 6 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y39	2448605.25	1991 Dec 14 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y40	2448608.09	1991 Dec 17 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-W131	2448609.44	1991 Dec 18 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y41	2448612.20	1991 Dec 21 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y42	2448614.12	1991 Dec 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1991-Y43	2448614.16	1991 Dec 23 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W01	2448624.34	1992 Jan 2 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W03	2448643.12	1992 Jan 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y01	2448644.44	1992 Jan 22 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W05	2448644.46	1992 Jan 22 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W07	2448658.25	1992 Feb 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W08	2448660.25	1992 Feb 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y02	2448664.30	1992 Feb 11 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W09	2448664.32	1992 Feb 11 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W10	2448666.44	1992 Feb 13 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y03	2448666.48	1992 Feb 13 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y04	2448667.25	1992 Feb 14 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W12	2448667.26	1992 Feb 14 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W13	2448670.12	1992 Feb 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W17	2448674.12	1992 Feb 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W18	2448674.70	1992 Feb 22 0444:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y05	2448679.47	1992 Feb 26 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-A02	2448685.12	1992 Mar 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W26	2448693.15	1992 Mar 11 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W27	2448693.89	1992 Mar 12 0924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y06	2448699.08	1992 Mar 17 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y07	2448700.08	1992 Mar 18 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y08	2448700.42	1992 Mar 18 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W29	2448700.48	1992 Mar 18 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y09	2448701.08	1992 Mar 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1992-W31	2448703.25	1992 Mar 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y10	2448707.17	1992 Mar 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y11	2448712.11	1992 Mar 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y12	2448714.42	1992 Apr 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W37	2448714.44	1992 Apr 1 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-A06	2448715.12	1992 Apr 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W38	2448715.25	1992 Apr 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W40	2448719.09	1992 Apr 6 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W41	2448720.62	1992 Apr 8 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W42	2448721.25	1992 Apr 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y13	2448721.40	1992 Apr 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y14	2448728.40	1992 Apr 15 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y15	2448729.09	1992 Apr 16 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y16	2448735.29	1992 Apr 22 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y17	2448736.08	1992 Apr 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y18	2448741.08	1992 Apr 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y19	2448741.24	1992 Apr 28 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y20	2448748.56	1992 May 6 0132:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W48	2448748.58	1992 May 6 0156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W49	2448749.21	1992 May 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W50	2448755.06	1992 May 12 1327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W51	2448762.08	1992 May 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W53	2448771.09	1992 May 28 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y21	2448776.06	1992 Jun 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W55	2448779.08	1992 Jun 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W56	2448782.08	1992 Jun 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W59	2448790.90	1992 Jun 17 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y22	2448791.08	1992 Jun 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W60	2448792.36	1992 Jun 18 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W61	2448793.17	1992 Jun 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W62	2448797.04	1992 Jun 23 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W64	2448798.10	1992 Jun 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W65	2448800.25	1992 Jun 26 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W66	2448803.09	1992 Jun 29 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y23	2448803.39	1992 Jun 29 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W67	2448803.89	1992 Jun 30 0924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y24	2448804.08	1992 Jun 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W68	2448805.50	1992 Jul 2 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W69	2448806.08	1992 Jul 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W70	2448806.27	1992 Jul 2 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W71	2448810.08	1992 Jul 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W72	2448810.23	1992 Jul 6 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y25	2448814.08	1992 Jul 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W74	2448819.08	1992 Jul 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W75	2448819.12	1992 Jul 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y26	2448826.07	1992 Jul 22 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W79	2448832.04	1992 Jul 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y27	2448832.30	1992 Jul 28 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W80	2448833.42	1992 Jul 29 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W81	2448834.10	1992 Jul 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W82	2448839.41	1992 Aug 4 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y28	2448840.17	1992 Aug 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y29	2448841.12	1992 Aug 6 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W84	2448842.21	1992 Aug 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y30	2448845.26	1992 Aug 10 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y31	2448847.08	1992 Aug 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W86	2448854.08	1992 Aug 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y32	2448854.16	1992 Aug 19 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y34	2448859.09	1992 Aug 24 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W87	2448865.08	1992 Aug 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W88	2448869.36	1992 Sep 3 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W89	2448874.10	1992 Sep 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W92	2448877.08	1992 Sep 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W94	2448890.09	1992 Sep 24 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y35	2448903.17	1992 Oct 7 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W96	2448905.08	1992 Oct 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W98	2448910.12	1992 Oct 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W99	2448912.07	1992 Oct 16 1342:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W100	2448915.38	1992 Oct 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y36	2448916.12	1992 Oct 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W101	2448917.05	1992 Oct 21 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W104	2448932.12	1992 Nov 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y37	2448933.05	1992 Nov 6 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W105	2448937.32	1992 Nov 10 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W107	2448947.12	1992 Nov 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W109	2448958.12	1992 Dec 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-A19	2448972.12	1992 Dec 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-Y40	2448973.17	1992 Dec 16 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W112	2448975.08	1992 Dec 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1992-W113	2448978.15	1992 Dec 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y01	2448993.12	1993 Jan 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W02	2449000.27	1993 Jan 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y02	2449002.89	1993 Jan 15 0924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W05	2449020.29	1993 Feb 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y03	2449036.15	1993 Feb 17 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y04	2449043.04	1993 Feb 24 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-Y05	2449056.74	1993 Mar 10 0540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W10	2449064.12	1993 Mar 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W11	2449068.09	1993 Mar 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W13	2449071.14	1993 Mar 24 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W14	2449071.16	1993 Mar 24 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W15	2449073.15	1993 Mar 26 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y06	2449076.27	1993 Mar 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W16	2449082.12	1993 Apr 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y07	2449084.33	1993 Apr 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y08	2449101.08	1993 Apr 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y09	2449103.05	1993 Apr 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y10	2449107.17	1993 Apr 29 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W20	2449114.62	1993 May 7 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y11	2449119.08	1993 May 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y12	2449119.19	1993 May 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y13	2449119.31	1993 May 11 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W22	2449121.10	1993 May 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y14	2449128.07	1993 May 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W24	2449129.08	1993 May 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W26	2449133.99	1993 May 26 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W27	2449135.08	1993 May 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y15	2449139.97	1993 Jun 1 1123:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W30	2449157.11	1993 Jun 18 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W31	2449164.08	1993 Jun 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y16	2449171.11	1993 Jul 2 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y17	2449171.61	1993 Jul 3 0243:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y18	2449175.36	1993 Jul 6 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W33	2449176.45	1993 Jul 7 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W34	2449181.31	1993 Jul 12 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y19	2449183.11	1993 Jul 14 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W36	2449185.08	1993 Jul 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W37	2449192.09	1993 Jul 23 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y20	2449203.29	1993 Aug 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W39	2449211.17	1993 Aug 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y21	2449220.06	1993 Aug 20 1324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y22	2449224.97	1993 Aug 25 1111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W41	2449226.31	1993 Aug 26 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W43	2449232.10	1993 Sep 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W44	2449241.08	1993 Sep 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y24	2449246.23	1993 Sep 15 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y25	2449247.12	1993 Sep 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y26	2449262.22	1993 Oct 1 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W48	2449274.08	1993 Oct 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y27	2449274.11	1993 Oct 13 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W50	2449278.07	1993 Oct 17 1338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y28	2449310.43	1993 Nov 18 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W55	2449310.50	1993 Nov 18 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-W56	2449321.16	1993 Nov 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y29	2449336.17	1993 Dec 14 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y30	2449339.26	1993 Dec 17 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1993-Y31	2449342.19	1993 Dec 20 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1995-Y01	2449742.17	1995 Jan 24 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1995-Y02	2450059.49	1995 Dec 7 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1996-W01	2450092.29	1996 Jan 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1996-W04	2450101.06	1996 Jan 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1996-W06	2450113.29	1996 Jan 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1996-Y02	2450428.27	1996 Dec 10 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1996-W12	2450437.14	1996 Dec 19 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W02	2450459.17	1997 Jan 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y03	2450489.12	1997 Feb 9 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-A06	2450500.48	1997 Feb 20 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W09	2450507.12	1997 Feb 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y04	2450527.12	1997 Mar 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W13	2450541.12	1997 Apr 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W14	2450547.39	1997 Apr 8 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-A28	2450549.07	1997 Apr 10 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W16	2450550.08	1997 Apr 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W18	2450561.26	1997 Apr 22 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W20	2450582.08	1997 May 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W23	2450598.11	1997 May 29 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y05	2450606.09	1997 Jun 6 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W26	2450619.08	1997 Jun 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W28	2450630.08	1997 Jun 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-A30	2450633.06	1997 Jul 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W30	2450641.24	1997 Jul 11 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W32	2450645.06	1997 Jul 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y06	2450659.04	1997 Jul 29 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W35	2450661.45	1997 Jul 31 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W38	2450666.43	1997 Aug 5 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W43	2450667.05	1997 Aug 6 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W44	2450667.42	1997 Aug 6 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W45	2450667.45	1997 Aug 6 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y07	2450669.05	1997 Aug 8 1318:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y11	2450670.90	1997 Aug 10 0935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W51	2450671.39	1997 Aug 10 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y14	2450671.40	1997 Aug 10 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-A32	2450673.06	1997 Aug 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W64	2450683.34	1997 Aug 22 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W66	2450688.31	1997 Aug 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W71	2450704.06	1997 Sep 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y31	2450716.08	1997 Sep 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y32	2450731.08	1997 Oct 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-W75	2450732.05	1997 Oct 10 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y33	2450732.43	1997 Oct 10 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y34	2450743.12	1997 Oct 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-Y35	2450771.12	1997 Nov 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1997-A56	2450801.47	1997 Dec 18 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y10	2450835.09	1998 Jan 21 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-W05	2450855.48	1998 Feb 10 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-W08	2450869.12	1998 Feb 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y28	2450878.12	1998 Mar 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y29	2450900.12	1998 Mar 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-W13	2450919.08	1998 Apr 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y30	2450939.08	1998 May 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-W19	2450966.08	1998 Jun 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y31	2451025.08	1998 Jul 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-W35	2451102.09	1998 Oct 15 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y32	2451109.39	1998 Oct 22 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y33	2451109.54	1998 Oct 23 0101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1998-Y34	2451169.19	1998 Dec 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-W01	2451194.10	1999 Jan 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-W02	2451219.43	1999 Feb 9 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-W03	2451262.61	1999 Mar 25 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-Y01	2451346.21	1999 Jun 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-Y02	2451466.12	1999 Oct 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1999-Y04	2451522.12	1999 Dec 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
2000-Y01	2451601.51	2000 Feb 27 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
2000-Y02	2451711.12	2000 Jun 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W960	2440417.30	1969 Jul 14 1907:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	56	-	-
1969-W961	2440418.08	1969 Jul 15 1400:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	62	-	-
1969-W962	2440418.12	1969 Jul 15 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	59	-	-
1969-W963	2440418.15	1969 Jul 15 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W964	2440418.38	1969 Jul 15 2104:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-A126	2440419.08	1969 Jul 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1969-W967	2440419.11	1969 Jul 16 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W969	2440419.14	1969 Jul 16 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W970	2440419.17	1969 Jul 16 1559:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	63	-	-
1969-W972	2440419.21	1969 Jul 16 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W973	2440419.25	1969 Jul 16 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1969-W974	2440419.41	1969 Jul 16 2156:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W975	2440420.11	1969 Jul 17 1443:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	59	-	-
1969-W976	2440420.24	1969 Jul 17 1740:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-W977	2440420.25	1969 Jul 17 1800:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	55	-	-
1969-W978	2440420.30	1969 Jul 17 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	68	-	-
1969-A127	2440420.38	1969 Jul 17 2111:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	46	-	-
1969-W979	2440421.08	1969 Jul 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W980	2440421.11	1969 Jul 18 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	64	-	-
1969-W981	2440421.16	1969 Jul 18 1551:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1969-W982	2440421.17	1969 Jul 18 1559:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	73	-	-
1969-W983	2440421.21	1969 Jul 18 1700:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W984	2440421.29	1969 Jul 18 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-A128	2440421.29	1969 Jul 18 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	48	-	-
1969-W985	2440421.38	1969 Jul 18 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1969-W986	2440425.30	1969 Jul 22 1914:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	69	-	-
1969-W987	2440425.38	1969 Jul 22 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1969-W988	2440425.40	1969 Jul 22 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W990	2440426.08	1969 Jul 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W991	2440426.15	1969 Jul 23 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W992	2440426.17	1969 Jul 23 1602:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1969-W993	2440426.24	1969 Jul 23 1742:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1969-W994	2440426.25	1969 Jul 23 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1969-W995	2440426.29	1969 Jul 23 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W996	2440426.35	1969 Jul 23 2026:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W997	2440426.38	1969 Jul 23 2106:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-W998	2440426.40	1969 Jul 23 2143:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W999	2440427.10	1969 Jul 24 1430:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	WS	-	-	-	70	-	-
1969-W1000	2440427.17	1969 Jul 24 1602:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-W1001	2440427.32	1969 Jul 24 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1969-W1002	2440427.35	1969 Jul 24 2024:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	55	-	-
1969-W1003	2440427.40	1969 Jul 24 2131:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	51	-	-
1969-W1004	2440427.91	1969 Jul 25 0956:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	63	-	-
1969-W1005	2440428.02	1969 Jul 25 1232:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	63	-	-
1969-W1006	2440428.05	1969 Jul 25 1314:59	Rocketsonde	-	-	-	-	-	-	CC	LC43	-	-	60	-	-
1969-W1007	2440428.11	1969 Jul 25 1445:00	Rocketsonde	-	-	Met Para	-	-	-	ASC	-	-	-	58	-	-
1969-W1008	2440428.17	1969 Jul 25 1604:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W1009	2440428.21	1969 Jul 25 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1969-W1010	2440428.22	1969 Jul 25 1722:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1969-W1012	2440428.39	1969 Jul 25 2114:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W1013	2440431.06	1969 Jul 28 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W1014	2440431.11	1969 Jul 28 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-Y200	2440431.23	1969 Jul 28 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1969-W1015	2440431.33	1969 Jul 28 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	56	-	-
1969-W1016	2440431.36	1969 Jul 28 2034:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1017	2440431.41	1969 Jul 28 2146:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1969-W1018	2440432.25	1969 Jul 29 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1969-W1019	2440432.42	1969 Jul 29 2200:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1969-A132	2440433.09	1969 Jul 30 1408:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	41	-	-
1969-W1020	2440433.10	1969 Jul 30 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1969-W1021	2440433.10	1969 Jul 30 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1023	2440433.15	1969 Jul 30 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W1024	2440433.19	1969 Jul 30 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-A133	2440433.27	1969 Jul 30 1830:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	37	-	-
1969-A134	2440433.31	1969 Jul 30 1930:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	45	-	-
1969-W1026	2440433.38	1969 Jul 30 2103:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W1027	2440434.20	1969 Jul 31 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1028	2440434.38	1969 Jul 31 2112:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	51	-	-
1969-W1029	2440434.44	1969 Jul 31 2227:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1030	2440435.08	1969 Aug 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-A135	2440435.11	1969 Aug 1 1437:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	46	-	-
1969-W1031	2440435.13	1969 Aug 1 1512:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	66	-	-
1969-W1032	2440435.17	1969 Aug 1 1600:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	61	-	-
1969-W1033	2440435.27	1969 Aug 1 1829:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1969-W1034	2440435.27	1969 Aug 1 1831:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W1036	2440435.37	1969 Aug 1 2052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W1037	2440438.08	1969 Aug 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1038	2440438.10	1969 Aug 4 1421:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	59	-	-
1969-W1039	2440438.11	1969 Aug 4 1445:00	Rocketsonde	-	-	Met Para	-	-	-	ASC	-	-	-	62	-	-
1969-W1040	2440438.18	1969 Aug 4 1623:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1969-W1041	2440438.32	1969 Aug 4 1944:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	65	-	-
1969-W1042	2440438.39	1969 Aug 4 2123:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1969-W1043	2440439.08	1969 Aug 5 1400:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	70	-	-
1969-W1044	2440439.38	1969 Aug 5 2104:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1045	2440439.40	1969 Aug 5 2136:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1969-W1048	2440440.08	1969 Aug 6 1400:00	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	53	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1049	2440440.10	1969 Aug 6 1422:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1969-W1050	2440440.11	1969 Aug 6 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	51	-	-
1969-W1051	2440440.12	1969 Aug 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-A136	2440440.19	1969 Aug 6 1629:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	30	-	-
1969-W1052	2440440.19	1969 Aug 6 1630:00	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	52	-	-
1969-Y206	2440440.21	1969 Aug 6 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1969-W1053	2440440.29	1969 Aug 6 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-A137	2440440.34	1969 Aug 6 2015:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	30	-	-
1969-W1054	2440440.40	1969 Aug 6 2129:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W1055	2440440.55	1969 Aug 7 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1969-W1057	2440441.36	1969 Aug 7 2032:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1969-W1058	2440442.08	1969 Aug 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1059	2440442.09	1969 Aug 8 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-W1060	2440442.11	1969 Aug 8 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W1061	2440442.11	1969 Aug 8 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	59	-	-
1969-W1062	2440442.25	1969 Aug 8 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W1063	2440442.31	1969 Aug 8 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1064	2440442.42	1969 Aug 8 2204:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W1065	2440442.56	1969 Aug 9 0123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1969-W1066	2440445.12	1969 Aug 11 1449:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1067	2440445.18	1969 Aug 11 1619:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-A139	2440445.23	1969 Aug 11 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	49	-	-
1969-W1068	2440445.25	1969 Aug 11 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W1069	2440445.43	1969 Aug 11 2212:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W1070	2440446.38	1969 Aug 12 2102:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	51	-	-
1969-W1071	2440446.42	1969 Aug 12 2203:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	57	-	-
1969-W1072	2440447.02	1969 Aug 13 1230:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1969-W1073	2440447.08	1969 Aug 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1074	2440447.10	1969 Aug 13 1430:00	Rocketsonde	-	-	Met Sphere	-	-	-	ANT	-	-	-	62	-	-
1969-W1075	2440447.17	1969 Aug 13 1559:59	Rocketsonde	-	-	Met Para	-	-	-	SHER	-	-	-	55	-	-
1969-W1076	2440447.25	1969 Aug 13 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W1077	2440447.28	1969 Aug 13 1836:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1078	2440447.31	1969 Aug 13 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W1080	2440448.09	1969 Aug 14 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1969-W1081	2440448.19	1969 Aug 14 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1082	2440449.02	1969 Aug 15 1230:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	59	-	-
1969-A141	2440449.08	1969 Aug 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	49	-	-
1969-W1084	2440449.11	1969 Aug 15 1435:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	63	-	-
1969-W1085	2440449.17	1969 Aug 15 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W1087	2440449.25	1969 Aug 15 1803:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1969-W1088	2440449.27	1969 Aug 15 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1089	2440449.29	1969 Aug 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W1090	2440449.39	1969 Aug 15 2126:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	52	-	-
1969-W1091	2440449.59	1969 Aug 16 0207:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1092	2440451.78	1969 Aug 18 0647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	60	-	-
1969-W1093	2440452.08	1969 Aug 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1094	2440452.11	1969 Aug 18 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	65	-	-
1969-W1095	2440452.17	1969 Aug 18 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W1097	2440452.20	1969 Aug 18 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-A142	2440452.25	1969 Aug 18 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	32	-	-
1969-W1098	2440452.25	1969 Aug 18 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1969-W1099	2440452.31	1969 Aug 18 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W1100	2440452.40	1969 Aug 18 2142:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W1101	2440452.56	1969 Aug 19 0122:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1102	2440453.09	1969 Aug 19 1413:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-A143	2440453.18	1969 Aug 19 1618:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	31	-	-
1969-W1103	2440453.21	1969 Aug 19 1709:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1104	2440453.26	1969 Aug 19 1819:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W1106	2440454.08	1969 Aug 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1107	2440454.11	1969 Aug 20 1434:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1108	2440454.11	1969 Aug 20 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1109	2440454.15	1969 Aug 20 1529:00	Rocketsonde	-	-	Starute	-	-	-	THU	-	-	-	60	-	-
1969-W1110	2440454.15	1969 Aug 20 1540:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1111	2440454.17	1969 Aug 20 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1969-W1112	2440454.23	1969 Aug 20 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	77	-	-
1969-W1113	2440454.27	1969 Aug 20 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	54	-	-
1969-W1114	2440454.50	1969 Aug 21 0000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W1115	2440454.56	1969 Aug 21 0127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1969-W1116	2440455.14	1969 Aug 21 1524:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-W1117	2440455.17	1969 Aug 21 1607:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1969-A144	2440455.33	1969 Aug 21 2001:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	33	-	-
1969-A145	2440455.40	1969 Aug 21 2135:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	48	-	-
1969-W1118	2440455.54	1969 Aug 22 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1119	2440455.73	1969 Aug 22 0527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1969-W1120	2440456.02	1969 Aug 22 1230:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	65	-	-
1969-W1121	2440456.08	1969 Aug 22 1358:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1122	2440456.08	1969 Aug 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1123	2440456.25	1969 Aug 22 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1969-W1124	2440456.25	1969 Aug 22 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1969-W1125	2440456.26	1969 Aug 22 1810:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1126	2440456.30	1969 Aug 22 1904:59	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	58	-	-
1969-W1128	2440456.50	1969 Aug 23 0000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1969-W1129	2440456.56	1969 Aug 23 0120:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1131	2440459.21	1969 Aug 25 1702:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1132	2440459.24	1969 Aug 25 1745:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W1133	2440459.25	1969 Aug 25 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	68	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1134	2440459.31	1969 Aug 25 1919:59	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	57	-	-
1969-W1135	2440459.52	1969 Aug 26 0027:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1969-W1136	2440459.57	1969 Aug 26 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1969-W1137	2440460.11	1969 Aug 26 1437:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	62	-	-
1969-W1138	2440460.14	1969 Aug 26 1519:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	59	-	-
1969-W1139	2440460.19	1969 Aug 26 1630:00	Rocketsonde	-	-	Chaff	-	-	-	SHER	-	-	-	58	-	-
1969-A147	2440460.20	1969 Aug 26 1647:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	46	-	-
1969-W1140	2440460.26	1969 Aug 26 1811:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	57	-	-
1969-W1141	2440460.50	1969 Aug 27 0002:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	58	-	-
1969-W1142	2440460.64	1969 Aug 27 0325:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1143	2440461.07	1969 Aug 27 1346:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	THU	-	-	-	60	-	-
1969-W1144	2440461.08	1969 Aug 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W1145	2440461.09	1969 Aug 27 1406:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W1146	2440461.15	1969 Aug 27 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1147	2440461.17	1969 Aug 27 1600:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W1149	2440461.29	1969 Aug 27 1859:59	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	58	-	-
1969-W1150	2440461.29	1969 Aug 27 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1969-W1151	2440461.31	1969 Aug 27 1919:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1152	2440461.58	1969 Aug 28 0148:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1153	2440462.27	1969 Aug 28 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-W1154	2440462.51	1969 Aug 29 0008:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W1155	2440462.99	1969 Aug 29 1140:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1156	2440463.08	1969 Aug 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1157	2440463.11	1969 Aug 29 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	62	-	-
1969-W1158	2440463.17	1969 Aug 29 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W1160	2440463.29	1969 Aug 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1161	2440463.38	1969 Aug 29 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1162	2440463.51	1969 Aug 30 0009:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1969-W1166	2440467.04	1969 Sep 2 1259:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1969-W1167	2440467.29	1969 Sep 2 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1969-W1168	2440467.50	1969 Sep 3 0000:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1969-W1169	2440467.65	1969 Sep 3 0341:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1170	2440468.07	1969 Sep 3 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-W1171	2440468.08	1969 Sep 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1172	2440468.11	1969 Sep 3 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W1173	2440468.17	1969 Sep 3 1609:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1969-W1175	2440468.24	1969 Sep 3 1740:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	50	-	-
1969-W1176	2440468.40	1969 Sep 3 2141:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W1177	2440468.60	1969 Sep 4 0224:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1969-W1178	2440469.10	1969 Sep 4 1424:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-W1179	2440469.17	1969 Sep 4 1602:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1180	2440469.28	1969 Sep 4 1845:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W1181	2440469.50	1969 Sep 5 0003:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1969-W1182	2440470.11	1969 Sep 5 1436:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1969-W1183	2440470.11	1969 Sep 5 1445:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	55	-	-
1969-W1184	2440470.11	1969 Sep 5 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W1185	2440470.21	1969 Sep 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W1186	2440470.24	1969 Sep 5 1740:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1969-W1187	2440470.25	1969 Sep 5 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1188	2440470.29	1969 Sep 5 1859:59	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	61	-	-
1969-W1189	2440470.39	1969 Sep 5 2124:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1969-W1190	2440470.50	1969 Sep 6 0006:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1969-W1191	2440470.55	1969 Sep 6 0114:59	Rocketsonde	-	-	Starute	-	-	-	KMR	-	-	-	58	-	-
1969-W1193	2440471.25	1969 Sep 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1969-W1196	2440473.08	1969 Sep 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1197	2440473.11	1969 Sep 8 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	64	-	-
1969-W1198	2440473.18	1969 Sep 8 1614:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1969-W1199	2440473.29	1969 Sep 8 1858:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	56	-	-
1969-W1200	2440473.29	1969 Sep 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1969-W1201	2440473.32	1969 Sep 8 1940:00	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	53	-	-
1969-W1202	2440473.57	1969 Sep 9 0133:59	Rocketsonde	-	-	Starute	-	-	-	KMR	-	-	-	59	-	-
1969-W1203	2440474.13	1969 Sep 9 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	63	-	-
1969-W1204	2440474.15	1969 Sep 9 1531:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	58	-	-
1969-W1205	2440474.18	1969 Sep 9 1625:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W1206	2440474.21	1969 Sep 9 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1207	2440474.22	1969 Sep 9 1720:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1208	2440474.78	1969 Sep 10 0642:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W1209	2440475.08	1969 Sep 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1211	2440475.11	1969 Sep 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W1212	2440475.29	1969 Sep 10 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W1213	2440475.31	1969 Sep 10 1930:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-W1214	2440475.40	1969 Sep 10 2129:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1969-W1215	2440475.58	1969 Sep 11 0148:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W1217	2440476.15	1969 Sep 11 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	61	-	-
1969-W1218	2440476.38	1969 Sep 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1219	2440476.38	1969 Sep 11 2104:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1969-W1220	2440476.42	1969 Sep 11 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-W1222	2440477.08	1969 Sep 12 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1223	2440477.11	1969 Sep 12 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	64	-	-
1969-W1224	2440477.13	1969 Sep 12 1508:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-W1225	2440477.17	1969 Sep 12 1559:59	Rocketsonde	-	-	Starute	-	-	-	THU	-	-	-	61	-	-
1969-W1226	2440477.18	1969 Sep 12 1614:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W1227	2440477.21	1969 Sep 12 1700:00	Rocketsonde	-	-	Starute,Arcasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1228	2440477.25	1969 Sep 12 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1969-W1230	2440477.30	1969 Sep 12 1909:59	Rocketsonde	-	-	Chaff	-	-	-	GRLY	-	-	-	58	-	-
1969-A151	2440477.38	1969 Sep 12 2102:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	47	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1231	2440477.45	1969 Sep 12 2244:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1232	2440477.55	1969 Sep 13 0118:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1233	2440477.98	1969 Sep 13 1127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W1234	2440478.25	1969 Sep 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1235	2440479.54	1969 Sep 15 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1969-W1236	2440480.04	1969 Sep 15 1259:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	60	-	-
1969-W1237	2440480.08	1969 Sep 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1238	2440480.11	1969 Sep 15 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	61	-	-
1969-W1239	2440480.12	1969 Sep 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	58	-	-
1969-W1240	2440480.17	1969 Sep 15 1600:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1969-W1242	2440480.23	1969 Sep 15 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1243	2440480.25	1969 Sep 15 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1969-W1244	2440480.31	1969 Sep 15 1930:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1969-W1245	2440480.40	1969 Sep 15 2133:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1969-W1246	2440480.68	1969 Sep 16 0418:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1247	2440481.04	1969 Sep 16 1259:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	56	-	-
1969-W1248	2440481.10	1969 Sep 16 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	57	-	-
1969-W1250	2440481.23	1969 Sep 16 1727:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1251	2440481.30	1969 Sep 16 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W1252	2440481.33	1969 Sep 16 1954:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	54	-	-
1969-W1253	2440482.10	1969 Sep 17 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1969-W1254	2440482.11	1969 Sep 17 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1256	2440482.20	1969 Sep 17 1649:59	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1969-W1257	2440482.21	1969 Sep 17 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-A153	2440482.21	1969 Sep 17 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	48	-	-
1969-W1258	2440482.23	1969 Sep 17 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	53	-	-
1969-W1259	2440482.25	1969 Sep 17 1801:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1969-W1260	2440482.29	1969 Sep 17 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W1261	2440482.29	1969 Sep 17 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-W1262	2440482.36	1969 Sep 17 2042:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	51	-	-
1969-W1263	2440482.44	1969 Sep 17 2238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1264	2440482.68	1969 Sep 18 0424:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	59	-	-
1969-W1265	2440483.07	1969 Sep 18 1344:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	56	-	-
1969-W1266	2440483.10	1969 Sep 18 1430:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	59	-	-
1969-W1267	2440483.25	1969 Sep 18 1800:00	Rocketsonde	-	-	Starute	-	-	-	THU	-	-	-	68	-	-
1969-W1268	2440483.32	1969 Sep 18 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-A154	2440483.41	1969 Sep 18 2149:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	48	-	-
1969-W1269	2440483.44	1969 Sep 18 2230:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1270	2440484.10	1969 Sep 19 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1271	2440484.11	1969 Sep 19 1445:00	Rocketsonde	-	-	Met Para,Met Sphere	-	-	-	ASC	-	-	-	61	-	-
1969-W1273	2440484.21	1969 Sep 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1274	2440484.29	1969 Sep 19 1859:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1275	2440484.40	1969 Sep 19 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1969-W1277	2440485.05	1969 Sep 20 1314:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1969-W1279	2440487.08	1969 Sep 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1969-W1280	2440487.11	1969 Sep 22 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1969-W1281	2440487.17	1969 Sep 22 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1282	2440487.21	1969 Sep 22 1706:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W1283	2440487.25	1969 Sep 22 1804:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W1285	2440487.30	1969 Sep 22 1911:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-A157	2440487.39	1969 Sep 22 2114:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	44	-	-
1969-W1286	2440487.39	1969 Sep 22 2114:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1969-W1287	2440487.42	1969 Sep 22 2206:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W1288	2440487.43	1969 Sep 22 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1969-W1289	2440487.53	1969 Sep 23 0045:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1969-W1290	2440487.55	1969 Sep 23 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1291	2440488.19	1969 Sep 23 1630:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	62	-	-
1969-W1292	2440488.19	1969 Sep 23 1632:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1969-W1293	2440488.38	1969 Sep 23 2110:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W1294	2440488.40	1969 Sep 23 2130:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1969-W1295	2440489.09	1969 Sep 24 1406:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W1296	2440489.11	1969 Sep 24 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1297	2440489.13	1969 Sep 24 1502:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	58	-	-
1969-W1298	2440489.18	1969 Sep 24 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1300	2440489.24	1969 Sep 24 1748:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1969-W1301	2440489.26	1969 Sep 24 1808:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-A158	2440489.30	1969 Sep 24 1909:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	45	-	-
1969-W1302	2440489.40	1969 Sep 24 2130:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W1303	2440489.55	1969 Sep 25 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1969-W1304	2440490.15	1969 Sep 25 1534:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-A159	2440490.25	1969 Sep 25 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	36	-	-
1969-A160	2440490.38	1969 Sep 25 2111:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1969-W1305	2440490.68	1969 Sep 26 0424:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-A161	2440491.09	1969 Sep 26 1412:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	33	-	-
1969-A162	2440491.10	1969 Sep 26 1429:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	40	-	-
1969-W1306	2440491.18	1969 Sep 26 1622:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	56	-	-
1969-W1307	2440491.24	1969 Sep 26 1744:00	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	55	-	-
1969-W1308	2440491.25	1969 Sep 26 1756:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1969-W1309	2440491.29	1969 Sep 26 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1969-W1310	2440491.30	1969 Sep 26 1918:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1969-W1311	2440491.31	1969 Sep 26 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1969-W1312	2440491.32	1969 Sep 26 1946:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	53	-	-
1969-W1313	2440491.34	1969 Sep 26 2008:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	56	-	-
1969-W1314	2440491.40	1969 Sep 26 2133:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1316	2440491.59	1969 Sep 27 0209:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W1317	2440494.11	1969 Sep 29 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1318	2440494.15	1969 Sep 29 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1969-W1319	2440494.18	1969 Sep 29 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1321	2440494.25	1969 Sep 29 1802:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1969-W1322	2440494.32	1969 Sep 29 1940:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1323	2440494.36	1969 Sep 29 2045:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W1324	2440494.38	1969 Sep 29 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1326	2440495.28	1969 Sep 30 1838:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1327	2440495.37	1969 Sep 30 2047:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1969-W1328	2440495.44	1969 Sep 30 2238:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1969-W1329	2440495.52	1969 Oct 1 0026:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W1330	2440496.14	1969 Oct 1 1518:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W1331	2440496.16	1969 Oct 1 1547:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-Y242	2440496.18	1969 Oct 1 1618:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	100	-	-
1969-W1333	2440496.24	1969 Oct 1 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1969-A166	2440496.30	1969 Oct 1 1904:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	46	-	-
1969-W1334	2440496.38	1969 Oct 1 2104:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1969-W1335	2440496.50	1969 Oct 2 0006:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1336	2440496.61	1969 Oct 2 0238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1969-W1337	2440497.17	1969 Oct 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1338	2440497.28	1969 Oct 2 1845:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	76	-	-
1969-W1339	2440497.35	1969 Oct 2 2030:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1969-W1340	2440497.62	1969 Oct 3 0246:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	67	-	-
1969-A167	2440498.05	1969 Oct 3 1304:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	42	-	-
1969-W1341	2440498.08	1969 Oct 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1342	2440498.11	1969 Oct 3 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	59	-	-
1969-W1343	2440498.19	1969 Oct 3 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1969-W1344	2440498.22	1969 Oct 3 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1345	2440498.25	1969 Oct 3 1800:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1969-W1346	2440498.29	1969 Oct 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1969-W1347	2440498.38	1969 Oct 3 2102:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1969-W1348	2440498.56	1969 Oct 4 0123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1969-W1349	2440501.08	1969 Oct 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1350	2440501.11	1969 Oct 6 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1351	2440501.17	1969 Oct 6 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W1352	2440501.17	1969 Oct 6 1610:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1353	2440501.19	1969 Oct 6 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1354	2440501.39	1969 Oct 6 2121:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1969-W1355	2440501.57	1969 Oct 7 0137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W1356	2440502.37	1969 Oct 7 2051:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1357	2440503.08	1969 Oct 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1358	2440503.17	1969 Oct 8 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1969-W1360	2440503.21	1969 Oct 8 1704:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1361	2440503.23	1969 Oct 8 1736:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1362	2440503.26	1969 Oct 8 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1969-W1363	2440503.27	1969 Oct 8 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1364	2440503.39	1969 Oct 8 2114:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1969-A172	2440503.96	1969 Oct 9 1100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	46	-	-
1969-A173	2440504.12	1969 Oct 9 1459:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	43	-	-
1969-W1365	2440505.09	1969 Oct 10 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1366	2440505.10	1969 Oct 10 1426:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	51	-	-
1969-W1367	2440505.11	1969 Oct 10 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W1368	2440505.13	1969 Oct 10 1502:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	51	-	-
1969-W1369	2440505.13	1969 Oct 10 1508:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	51	-	-
1969-W1370	2440505.14	1969 Oct 10 1518:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1969-W1371	2440505.14	1969 Oct 10 1527:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1969-W1372	2440505.19	1969 Oct 10 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	60	-	-
1969-W1373	2440505.20	1969 Oct 10 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W1374	2440505.21	1969 Oct 10 1704:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	65	-	-
1969-W1375	2440505.22	1969 Oct 10 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1376	2440505.31	1969 Oct 10 1930:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1969-A175	2440505.38	1969 Oct 10 2111:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	49	-	-
1969-W1378	2440508.08	1969 Oct 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1379	2440508.09	1969 Oct 13 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1969-W1380	2440508.10	1969 Oct 13 1425:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	63	-	-
1969-W1381	2440508.12	1969 Oct 13 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	59	-	-
1969-W1382	2440508.17	1969 Oct 13 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1969-W1383	2440508.21	1969 Oct 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1384	2440508.38	1969 Oct 13 2104:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W1385	2440508.40	1969 Oct 13 2138:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1969-W1386	2440508.46	1969 Oct 13 2303:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1387	2440509.17	1969 Oct 14 1559:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	55	-	-
1969-A176	2440509.17	1969 Oct 14 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	46	-	-
1969-W1388	2440509.18	1969 Oct 14 1620:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-W1389	2440509.38	1969 Oct 14 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	57	-	-
1969-W1391	2440510.01	1969 Oct 15 1209:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1969-W1392	2440510.10	1969 Oct 15 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1969-W1393	2440510.12	1969 Oct 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1969-W1394	2440510.17	1969 Oct 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W1395	2440510.18	1969 Oct 15 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1396	2440510.19	1969 Oct 15 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1969-W1397	2440510.21	1969 Oct 15 1704:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-W1398	2440510.22	1969 Oct 15 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1969-W1399	2440510.25	1969 Oct 15 1803:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1969-A177	2440510.27	1969 Oct 15 1823:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	40	-	-
1969-W1400	2440510.29	1969 Oct 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1969-W1402	2440511.08	1969 Oct 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	53	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-Y262	2440511.17	1969 Oct 16 1559:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	82	-	-
1969-W1403	2440511.17	1969 Oct 16 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	64	-	-
1969-W1404	2440511.19	1969 Oct 16 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	69	-	-
1969-W1405	2440511.21	1969 Oct 16 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1969-W1406	2440511.24	1969 Oct 16 1745:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	69	-	-
1969-W1407	2440511.29	1969 Oct 16 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1969-W1408	2440512.09	1969 Oct 17 1413:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1409	2440512.09	1969 Oct 17 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W1410	2440512.12	1969 Oct 17 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	54	-	-
1969-W1411	2440512.19	1969 Oct 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	60	-	-
1969-W1412	2440512.25	1969 Oct 17 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1969-W1413	2440512.26	1969 Oct 17 1812:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-W1414	2440512.29	1969 Oct 17 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1969-A179	2440512.30	1969 Oct 17 1918:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	47	-	-
1969-W1415	2440512.31	1969 Oct 17 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1969-W1416	2440512.32	1969 Oct 17 1942:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	55	-	-
1969-W1417	2440512.43	1969 Oct 17 2223:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1969-W1419	2440515.09	1969 Oct 20 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1969-W1420	2440515.10	1969 Oct 20 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1421	2440515.12	1969 Oct 20 1449:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	50	-	-
1969-W1422	2440515.40	1969 Oct 20 2142:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1969-W1424	2440516.17	1969 Oct 21 1559:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	55	-	-
1969-W1425	2440516.38	1969 Oct 21 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1426	2440516.67	1969 Oct 22 0357:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1427	2440517.08	1969 Oct 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1428	2440517.08	1969 Oct 22 1401:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-W1430	2440517.09	1969 Oct 22 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1969-W1431	2440517.12	1969 Oct 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1432	2440517.13	1969 Oct 22 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	57	-	-
1969-W1433	2440517.16	1969 Oct 22 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1969-W1434	2440517.23	1969 Oct 22 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1435	2440517.30	1969 Oct 22 1904:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1969-Y274	2440517.32	1969 Oct 22 1935:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	81	-	-
1969-W1436	2440517.43	1969 Oct 22 2217:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1969-W1438	2440518.10	1969 Oct 23 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	62	-	-
1969-W1439	2440518.17	1969 Oct 23 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1440	2440519.08	1969 Oct 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1441	2440519.09	1969 Oct 24 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1969-W1442	2440519.15	1969 Oct 24 1529:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1969-A181	2440522.10	1969 Oct 27 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	49	-	-
1969-W1444	2440522.11	1969 Oct 27 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	64	-	-
1969-W1445	2440522.12	1969 Oct 27 1452:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W1446	2440522.15	1969 Oct 27 1531:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-W1447	2440522.15	1969 Oct 27 1537:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1448	2440522.18	1969 Oct 27 1622:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	59	-	-
1969-W1449	2440522.22	1969 Oct 27 1720:00	Rocketsonde	-	-	Met Sphere,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1969-W1451	2440522.27	1969 Oct 27 1835:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1969-W1452	2440522.29	1969 Oct 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1453	2440522.30	1969 Oct 27 1917:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1454	2440523.11	1969 Oct 28 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	66	-	-
1969-W1455	2440523.17	1969 Oct 28 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1456	2440523.42	1969 Oct 28 2204:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1969-W1457	2440524.09	1969 Oct 29 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1458	2440524.12	1969 Oct 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1459	2440524.17	1969 Oct 29 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-
1969-W1461	2440524.26	1969 Oct 29 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1462	2440524.31	1969 Oct 29 1920:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1969-W1463	2440524.32	1969 Oct 29 1947:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	66	-	-
1969-A182	2440524.33	1969 Oct 29 2000:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	48	-	-
1969-W1464	2440524.59	1969 Oct 30 0206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1969-W1465	2440525.25	1969 Oct 30 1759:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1969-W1466	2440525.42	1969 Oct 30 2201:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1969-W1467	2440525.96	1969 Oct 31 1107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	66	-	-
1969-A183	2440526.07	1969 Oct 31 1344:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	48	-	-
1969-W1468	2440526.10	1969 Oct 31 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	50	-	-
1969-W1469	2440526.12	1969 Oct 31 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1470	2440526.13	1969 Oct 31 1508:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1969-W1471	2440526.15	1969 Oct 31 1534:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1969-W1472	2440526.16	1969 Oct 31 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W1473	2440526.17	1969 Oct 31 1607:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1969-W1474	2440526.18	1969 Oct 31 1620:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1969-W1475	2440526.33	1969 Oct 31 2000:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1969-A184	2440526.36	1969 Oct 31 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	36	-	-
1969-W1476	2440526.42	1969 Oct 31 2208:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1969-W1482	2440529.04	1969 Nov 3 1259:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	56	-	-
1969-W1486	2440529.19	1969 Nov 3 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W1487	2440529.22	1969 Nov 3 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1488	2440529.26	1969 Nov 3 1808:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1969-W1489	2440529.29	1969 Nov 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1969-W1492	2440530.21	1969 Nov 4 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1493	2440530.25	1969 Nov 4 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1969-W1494	2440530.33	1969 Nov 4 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1495	2440530.35	1969 Nov 4 2019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1499	2440531.12	1969 Nov 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1500	2440531.16	1969 Nov 5 1549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1969-W1501	2440531.16	1969 Nov 5 1555:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1502	2440531.17	1969 Nov 5 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1969-W1503	2440531.25	1969 Nov 5 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1504	2440531.27	1969 Nov 5 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1969-W1506	2440531.39	1969 Nov 5 2117:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1969-W1507	2440531.42	1969 Nov 5 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	59	-	-
1969-W1508	2440531.55	1969 Nov 6 0118:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1509	2440532.31	1969 Nov 6 1930:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1511	2440533.13	1969 Nov 7 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1512	2440533.16	1969 Nov 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1513	2440533.18	1969 Nov 7 1612:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1969-W1514	2440533.21	1969 Nov 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1969-W1515	2440533.26	1969 Nov 7 1809:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1969-W1516	2440533.32	1969 Nov 7 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	65	-	-
1969-A188	2440533.33	1969 Nov 7 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	35	-	-
1969-W1517	2440536.12	1969 Nov 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W1518	2440536.22	1969 Nov 10 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1969-W1519	2440536.29	1969 Nov 10 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	50	-	-
1969-W1520	2440536.40	1969 Nov 10 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1522	2440538.08	1969 Nov 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1523	2440538.14	1969 Nov 12 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-Y282	2440538.14	1969 Nov 12 1520:00	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	89	-	-
1969-W1524	2440538.25	1969 Nov 12 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	58	-	-
1969-W1525	2440538.30	1969 Nov 12 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1526	2440538.30	1969 Nov 12 1913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	54	-	-
1969-W1527	2440538.33	1969 Nov 12 1953:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	60	-	-
1969-W1528	2440538.59	1969 Nov 13 0214:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1969-W1530	2440539.11	1969 Nov 13 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1531	2440539.13	1969 Nov 13 1507:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1969-W1532	2440539.37	1969 Nov 13 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-Y283	2440539.40	1969 Nov 13 2131:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	93	-	-
1969-W1533	2440540.21	1969 Nov 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1969-W1534	2440540.26	1969 Nov 14 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W1535	2440540.31	1969 Nov 14 1930:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1969-W1536	2440540.33	1969 Nov 14 2002:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1969-W1538	2440543.09	1969 Nov 17 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1539	2440543.13	1969 Nov 17 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1540	2440543.13	1969 Nov 17 1506:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1969-W1541	2440543.19	1969 Nov 17 1630:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	52	-	-
1969-W1542	2440543.22	1969 Nov 17 1715:00	Rocketsonde	-	-	Chaff	-	-	-	SHER	-	-	-	68	-	-
1969-W1544	2440543.25	1969 Nov 17 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1545	2440543.26	1969 Nov 17 1820:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1969-W1546	2440543.29	1969 Nov 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1547	2440543.38	1969 Nov 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-W1548	2440544.09	1969 Nov 18 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1549	2440544.12	1969 Nov 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1969-W1550	2440544.19	1969 Nov 18 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W1551	2440544.23	1969 Nov 18 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-A192	2440545.12	1969 Nov 19 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	47	-	-
1969-W1554	2440545.12	1969 Nov 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W1555	2440545.17	1969 Nov 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1969-W1556	2440545.19	1969 Nov 19 1630:00	Rocketsonde	-	-	Chaff	-	-	-	SHER	-	-	-	56	-	-
1969-W1557	2440545.23	1969 Nov 19 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1558	2440545.24	1969 Nov 19 1747:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1969-W1560	2440545.25	1969 Nov 19 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1969-W1561	2440545.43	1969 Nov 19 2217:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1562	2440545.46	1969 Nov 19 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1969-W1563	2440545.56	1969 Nov 20 0131:59	Rocketsonde	-	-	Datasonde	-	-	-	KMR	-	-	-	64	-	-
1969-W1565	2440546.12	1969 Nov 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1969-W1566	2440546.13	1969 Nov 20 1500:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	52	-	-
1969-A193	2440546.14	1969 Nov 20 1522:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	49	-	-
1969-W1567	2440546.24	1969 Nov 20 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1969-W1568	2440546.38	1969 Nov 20 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1969-W1569	2440546.42	1969 Nov 20 2159:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	55	-	-
1969-W1570	2440547.12	1969 Nov 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W1571	2440547.13	1969 Nov 21 1502:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1969-W1572	2440547.27	1969 Nov 21 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1969-W1573	2440547.42	1969 Nov 21 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1969-W1574	2440547.43	1969 Nov 21 2219:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1575	2440547.56	1969 Nov 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1577	2440550.29	1969 Nov 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1578	2440550.42	1969 Nov 24 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1580	2440551.27	1969 Nov 25 1822:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	62	-	-
1969-W1581	2440551.34	1969 Nov 25 2012:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1582	2440551.34	1969 Nov 25 2014:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	58	-	-
1969-W1583	2440551.40	1969 Nov 25 2138:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1969-W1584	2440551.44	1969 Nov 25 2231:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	57	-	-
1969-W1585	2440551.76	1969 Nov 26 0611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1587	2440552.16	1969 Nov 26 1548:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W1588	2440552.16	1969 Nov 26 1549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1969-W1590	2440552.25	1969 Nov 26 1753:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-W1592	2440552.35	1969 Nov 26 2022:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1593	2440552.41	1969 Nov 26 2152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1594	2440552.42	1969 Nov 26 2202:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1969-W1595	2440552.59	1969 Nov 27 0213:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-A195	2440554.15	1969 Nov 28 1532:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	47	-	-
1969-W1597	2440554.25	1969 Nov 28 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A196	2440554.25	1969 Nov 28 1803:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	44	-	-
1969-A197	2440554.42	1969 Nov 28 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	45	-	-
1969-W1598	2440554.55	1969 Nov 29 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1969-W1601	2440557.08	1969 Dec 1 1400:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	57	-	-
1969-W1602	2440557.10	1969 Dec 1 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W1603	2440557.12	1969 Dec 1 1500:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1969-W1604	2440557.14	1969 Dec 1 1521:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-W1605	2440557.19	1969 Dec 1 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1969-W1606	2440557.36	1969 Dec 1 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1969-W1607	2440557.42	1969 Dec 1 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1969-A199	2440558.15	1969 Dec 2 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	THU	-	-	-	42	-	-
1969-W1610	2440558.44	1969 Dec 2 2230:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	57	-	-
1969-W1611	2440558.44	1969 Dec 2 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1612	2440558.91	1969 Dec 3 0956:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1969-W1613	2440559.10	1969 Dec 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1614	2440559.11	1969 Dec 3 1433:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1969-A200	2440559.13	1969 Dec 3 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	48	-	-
1969-W1615	2440559.14	1969 Dec 3 1518:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1969-W1616	2440559.17	1969 Dec 3 1607:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	57	-	-
1969-W1617	2440559.34	1969 Dec 3 2010:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	58	-	-
1969-A201	2440559.35	1969 Dec 3 2030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	48	-	-
1969-W1618	2440559.55	1969 Dec 4 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1969-W1619	2440560.20	1969 Dec 4 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1620	2440560.22	1969 Dec 4 1713:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1623	2440560.39	1969 Dec 4 2122:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1969-W1624	2440560.50	1969 Dec 5 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1625	2440561.08	1969 Dec 5 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1626	2440561.13	1969 Dec 5 1510:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1969-W1628	2440561.25	1969 Dec 5 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W1629	2440561.31	1969 Dec 5 1930:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1630	2440561.38	1969 Dec 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1632	2440561.62	1969 Dec 6 0249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1633	2440564.10	1969 Dec 8 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1969-W1634	2440564.12	1969 Dec 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W1635	2440564.20	1969 Dec 8 1654:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1969-W1636	2440564.21	1969 Dec 8 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1638	2440564.31	1969 Dec 8 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1639	2440564.42	1969 Dec 8 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1969-W1640	2440564.56	1969 Dec 9 0121:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1641	2440565.12	1969 Dec 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1642	2440565.31	1969 Dec 9 1930:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	55	-	-
1969-A203	2440565.47	1969 Dec 9 2312:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1969-W1644	2440566.10	1969 Dec 10 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1645	2440566.13	1969 Dec 10 1513:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1969-W1646	2440566.17	1969 Dec 10 1604:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1969-W1647	2440566.22	1969 Dec 10 1718:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-A205	2440566.25	1969 Dec 10 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	46	-	-
1969-W1648	2440566.28	1969 Dec 10 1840:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1969-W1649	2440566.29	1969 Dec 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W1650	2440566.46	1969 Dec 10 2309:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1969-W1652	2440566.57	1969 Dec 11 0146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1653	2440567.13	1969 Dec 11 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1655	2440567.41	1969 Dec 11 2145:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	55	-	-
1969-W1659	2440568.09	1969 Dec 12 1412:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1969-W1660	2440568.09	1969 Dec 12 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1969-W1661	2440568.10	1969 Dec 12 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1969-W1662	2440568.11	1969 Dec 12 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1969-W1663	2440568.25	1969 Dec 12 1807:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1969-W1664	2440568.27	1969 Dec 12 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1969-W1665	2440568.33	1969 Dec 12 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1969-W1666	2440568.54	1969 Dec 13 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1668	2440568.62	1969 Dec 13 0300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1969-W1669	2440571.11	1969 Dec 15 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W1670	2440571.14	1969 Dec 15 1527:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	61	-	-
1969-W1671	2440571.17	1969 Dec 15 1607:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1969-W1672	2440571.19	1969 Dec 15 1629:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1969-W1673	2440571.24	1969 Dec 15 1745:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1969-W1675	2440571.25	1969 Dec 15 1806:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1969-W1676	2440571.26	1969 Dec 15 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1969-W1677	2440571.27	1969 Dec 15 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1969-W1678	2440571.38	1969 Dec 15 2109:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1679	2440571.56	1969 Dec 16 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1969-W1680	2440572.23	1969 Dec 16 1726:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1969-W1681	2440572.24	1969 Dec 16 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1969-W1683	2440572.36	1969 Dec 16 2045:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1969-W1684	2440572.38	1969 Dec 16 2111:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1969-W1686	2440573.09	1969 Dec 17 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1969-Y294	2440573.14	1969 Dec 17 1514:59	Rocketsonde	-	-	MK-1	-	-	-	CC	LC43	-	-	91	-	-
1969-W1687	2440573.14	1969 Dec 17 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1969-W1688	2440573.15	1969 Dec 17 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1969-W1689	2440573.17	1969 Dec 17 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1969-W1690	2440573.24	1969 Dec 17 1738:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1969-W1692	2440573.33	1969 Dec 17 1948:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1969-W1693	2440573.43	1969 Dec 17 2217:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	58	-	-
1969-W1694	2440573.55	1969 Dec 18 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1969-W1695	2440574.12	1969 Dec 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-W1696	2440574.18	1969 Dec 18 1617:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	53	-	-
1969-A209	2440574.34	1969 Dec 18 2010:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1969-W1698	2440574.38	1969 Dec 18 2104:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	55	-	-
1969-W1700	2440575.10	1969 Dec 19 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1969-W1701	2440575.12	1969 Dec 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1969-W1702	2440575.16	1969 Dec 19 1546:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	58	-	-
1969-W1703	2440575.21	1969 Dec 19 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1706	2440575.28	1969 Dec 19 1836:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1969-W1707	2440575.34	1969 Dec 19 2015:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	56	-	-
1969-W1708	2440575.59	1969 Dec 20 0215:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1709	2440578.17	1969 Dec 22 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1969-W1711	2440578.27	1969 Dec 22 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1969-W1712	2440578.29	1969 Dec 22 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	50	-	-
1969-W1713	2440578.38	1969 Dec 22 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1969-A210	2440578.47	1969 Dec 22 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	39	-	-
1969-W1714	2440578.57	1969 Dec 23 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1969-W1715	2440579.12	1969 Dec 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1969-W1717	2440579.39	1969 Dec 23 2124:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1969-W1718	2440580.10	1969 Dec 24 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1969-W1719	2440580.12	1969 Dec 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1720	2440580.17	1969 Dec 24 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1722	2440580.29	1969 Dec 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W1723	2440580.39	1969 Dec 24 2118:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1969-W1724	2440580.57	1969 Dec 25 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1969-W1725	2440582.12	1969 Dec 26 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1969-W1726	2440582.12	1969 Dec 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1969-W1728	2440585.10	1969 Dec 29 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1969-W1729	2440585.12	1969 Dec 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1969-W1731	2440585.29	1969 Dec 29 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1969-W1732	2440585.43	1969 Dec 29 2220:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1733	2440585.56	1969 Dec 30 0124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1969-W1735	2440586.32	1969 Dec 30 1944:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	GRLY	-	-	-	65	-	-
1969-W1736	2440586.47	1969 Dec 30 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1969-W1737	2440586.77	1969 Dec 31 0633:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	58	-	-
1969-W1739	2440587.10	1969 Dec 31 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1969-W1740	2440587.19	1969 Dec 31 1638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1969-W1742	2440587.29	1969 Dec 31 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1969-W1743	2440587.29	1969 Dec 31 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1969-W1744	2440587.37	1969 Dec 31 2048:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1969-W1745	2440587.41	1969 Dec 31 2146:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1970-W1040	2440785.08	1970 Jul 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1041	2440785.14	1970 Jul 17 1524:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1042	2440785.22	1970 Jul 17 1712:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	65	-	-
1970-W1043	2440785.24	1970 Jul 17 1751:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	63	-	-
1970-W1044	2440785.25	1970 Jul 17 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1045	2440785.25	1970 Jul 17 1803:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1970-W1046	2440785.25	1970 Jul 17 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W1047	2440785.39	1970 Jul 17 2118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1048	2440785.56	1970 Jul 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1049	2440786.00	1970 Jul 18 1155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W1050	2440788.04	1970 Jul 20 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1051	2440788.08	1970 Jul 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1052	2440788.12	1970 Jul 20 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1970-W1053	2440788.13	1970 Jul 20 1512:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1054	2440788.14	1970 Jul 20 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1055	2440788.19	1970 Jul 20 1630:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1970-W1056	2440788.20	1970 Jul 20 1649:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1057	2440788.21	1970 Jul 20 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	70	-	-
1970-W1058	2440788.25	1970 Jul 20 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1970-W1059	2440788.28	1970 Jul 20 1838:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1970-W1060	2440788.39	1970 Jul 20 2118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1061	2440788.58	1970 Jul 21 0149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W1062	2440789.09	1970 Jul 21 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1063	2440789.12	1970 Jul 21 1459:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W1064	2440789.15	1970 Jul 21 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1970-W1065	2440789.35	1970 Jul 21 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1066	2440789.40	1970 Jul 21 2135:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	57	-	-
1970-W1067	2440790.08	1970 Jul 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-A88	2440790.18	1970 Jul 22 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	45	-	-
1970-W1068	2440790.18	1970 Jul 22 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1970-W1069	2440790.18	1970 Jul 22 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1070	2440790.23	1970 Jul 22 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	52	-	-
1970-W1071	2440790.23	1970 Jul 22 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1072	2440790.25	1970 Jul 22 1755:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1970-W1073	2440790.25	1970 Jul 22 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	77	-	-
1970-W1074	2440790.30	1970 Jul 22 1910:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W1076	2440790.33	1970 Jul 22 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	52	-	-
1970-W1077	2440790.58	1970 Jul 23 0202:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1078	2440791.15	1970 Jul 23 1532:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	79	-	-
1970-W1079	2440791.16	1970 Jul 23 1549:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1970-W1080	2440791.19	1970 Jul 23 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1970-W1081	2440791.21	1970 Jul 23 1701:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W1082	2440791.26	1970 Jul 23 1808:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1970-W1083	2440791.27	1970 Jul 23 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W1084	2440791.40	1970 Jul 23 2131:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1970-A89	2440792.05	1970 Jul 24 1306:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A90	2440792.06	1970 Jul 24 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	48	-	-
1970-W1085	2440792.08	1970 Jul 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1086	2440792.09	1970 Jul 24 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1087	2440792.12	1970 Jul 24 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W1088	2440792.15	1970 Jul 24 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1089	2440792.24	1970 Jul 24 1745:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1970-W1090	2440792.29	1970 Jul 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W1091	2440792.38	1970 Jul 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1092	2440792.57	1970 Jul 25 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1093	2440795.04	1970 Jul 27 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1094	2440795.08	1970 Jul 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1095	2440795.12	1970 Jul 27 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1970-W1096	2440795.20	1970 Jul 27 1642:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	66	-	-
1970-W1097	2440795.22	1970 Jul 27 1711:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1098	2440795.29	1970 Jul 27 1900:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W1099	2440795.39	1970 Jul 27 2117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1100	2440795.56	1970 Jul 28 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1101	2440796.11	1970 Jul 28 1445:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1970-W1102	2440796.17	1970 Jul 28 1602:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1970-W1103	2440796.20	1970 Jul 28 1642:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1970-W1104	2440796.40	1970 Jul 28 2138:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W1105	2440796.59	1970 Jul 29 0207:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1107	2440797.04	1970 Jul 29 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1108	2440797.08	1970 Jul 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W1109	2440797.10	1970 Jul 29 1420:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1970-W1110	2440797.12	1970 Jul 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1111	2440797.13	1970 Jul 29 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W1112	2440797.18	1970 Jul 29 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W1113	2440797.24	1970 Jul 29 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1114	2440797.31	1970 Jul 29 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W1115	2440797.41	1970 Jul 29 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W1117	2440797.56	1970 Jul 30 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W1118	2440798.14	1970 Jul 30 1519:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1119	2440798.18	1970 Jul 30 1619:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	52	-	-
1970-W1120	2440798.21	1970 Jul 30 1707:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1970-W1122	2440799.04	1970 Jul 31 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1123	2440799.08	1970 Jul 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1124	2440799.15	1970 Jul 31 1538:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	65	-	-
1970-W1125	2440799.20	1970 Jul 31 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1970-W1126	2440799.21	1970 Jul 31 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1970-W1127	2440799.21	1970 Jul 31 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W1128	2440799.29	1970 Jul 31 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1970-W1129	2440799.40	1970 Jul 31 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1130	2440799.56	1970 Aug 1 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1131	2440802.08	1970 Aug 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1132	2440802.12	1970 Aug 3 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1133	2440802.16	1970 Aug 3 1556:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1970-W1134	2440802.17	1970 Aug 3 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1135	2440802.19	1970 Aug 3 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-W1136	2440802.21	1970 Aug 3 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1970-W1137	2440802.23	1970 Aug 3 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1138	2440802.29	1970 Aug 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1970-W1139	2440802.38	1970 Aug 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1140	2440802.56	1970 Aug 4 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1141	2440803.09	1970 Aug 4 1415:00	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	66	-	-
1970-W1142	2440803.32	1970 Aug 4 1947:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1143	2440803.38	1970 Aug 4 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W1145	2440804.04	1970 Aug 5 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1146	2440804.07	1970 Aug 5 1337:59	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	68	-	-
1970-W1147	2440804.07	1970 Aug 5 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-W1148	2440804.08	1970 Aug 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1149	2440804.12	1970 Aug 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1150	2440804.25	1970 Aug 5 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W1151	2440804.25	1970 Aug 5 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1970-W1152	2440804.28	1970 Aug 5 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1153	2440804.29	1970 Aug 5 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W1154	2440804.38	1970 Aug 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1155	2440804.56	1970 Aug 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1157	2440805.14	1970 Aug 6 1522:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1970-W1158	2440805.16	1970 Aug 6 1544:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1159	2440805.20	1970 Aug 6 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1160	2440805.38	1970 Aug 6 2107:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W1161	2440806.04	1970 Aug 7 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1162	2440806.09	1970 Aug 7 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W1163	2440806.09	1970 Aug 7 1414:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1164	2440806.23	1970 Aug 7 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1970-W1165	2440806.25	1970 Aug 7 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1970-W1166	2440806.25	1970 Aug 7 1804:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W1167	2440806.29	1970 Aug 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1970-W1168	2440806.56	1970 Aug 8 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1170	2440809.04	1970 Aug 10 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1171	2440809.08	1970 Aug 10 1402:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1970-W1172	2440809.15	1970 Aug 10 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W1173	2440809.19	1970 Aug 10 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1970-W1174	2440809.25	1970 Aug 10 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W1175	2440809.29	1970 Aug 10 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1176	2440809.56	1970 Aug 11 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1178	2440810.40	1970 Aug 11 2141:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W1179	2440811.05	1970 Aug 12 1307:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1180	2440811.08	1970 Aug 12 1400:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1970-W1181	2440811.08	1970 Aug 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1182	2440811.10	1970 Aug 12 1426:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1970-W1183	2440811.11	1970 Aug 12 1434:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	62	-	-
1970-W1184	2440811.11	1970 Aug 12 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1185	2440811.12	1970 Aug 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1186	2440811.13	1970 Aug 12 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W1187	2440811.14	1970 Aug 12 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1188	2440811.14	1970 Aug 12 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1189	2440811.20	1970 Aug 12 1654:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	52	-	-
1970-W1190	2440811.25	1970 Aug 12 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1970-W1191	2440811.27	1970 Aug 12 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1192	2440811.38	1970 Aug 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1194	2440811.57	1970 Aug 13 0137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1195	2440812.12	1970 Aug 13 1448:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1970-W1196	2440812.15	1970 Aug 13 1531:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	62	-	-
1970-W1197	2440812.38	1970 Aug 13 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	53	-	-
1970-W1198	2440812.93	1970 Aug 14 1025:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1199	2440813.04	1970 Aug 14 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1200	2440813.08	1970 Aug 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W1201	2440813.09	1970 Aug 14 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1202	2440813.12	1970 Aug 14 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1203	2440813.15	1970 Aug 14 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-A93	2440813.18	1970 Aug 14 1619:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1970-W1204	2440813.21	1970 Aug 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W1205	2440813.28	1970 Aug 14 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1970-W1206	2440813.34	1970 Aug 14 2003:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1207	2440813.38	1970 Aug 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1208	2440816.08	1970 Aug 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1209	2440816.13	1970 Aug 17 1500:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1210	2440816.16	1970 Aug 17 1556:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1211	2440816.21	1970 Aug 17 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1970-W1212	2440816.24	1970 Aug 17 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W1213	2440816.25	1970 Aug 17 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1970-W1214	2440816.28	1970 Aug 17 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1215	2440816.29	1970 Aug 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1216	2440816.38	1970 Aug 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1217	2440816.56	1970 Aug 18 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	53	-	-
1970-W1218	2440817.06	1970 Aug 18 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1970-W1219	2440817.18	1970 Aug 18 1613:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-
1970-W1220	2440817.23	1970 Aug 18 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1970-W1221	2440817.39	1970 Aug 18 2117:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	56	-	-
1970-W1222	2440818.08	1970 Aug 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1223	2440818.11	1970 Aug 19 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1970-W1224	2440818.12	1970 Aug 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1970-W1225	2440818.16	1970 Aug 19 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1970-W1226	2440818.18	1970 Aug 19 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1970-W1227	2440818.22	1970 Aug 19 1715:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	50	-	-
1970-W1228	2440818.24	1970 Aug 19 1743:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W1229	2440818.25	1970 Aug 19 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W1230	2440818.28	1970 Aug 19 1836:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1970-W1231	2440818.29	1970 Aug 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1232	2440818.35	1970 Aug 19 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	66	-	-
1970-W1233	2440818.40	1970 Aug 19 2138:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1234	2440818.43	1970 Aug 19 2218:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1970-W1235	2440818.56	1970 Aug 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1970-W1237	2440819.12	1970 Aug 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1970-W1238	2440819.16	1970 Aug 20 1545:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-A94	2440819.17	1970 Aug 20 1558:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	45	-	-
1970-W1239	2440819.18	1970 Aug 20 1623:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1240	2440819.40	1970 Aug 20 2136:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W1241	2440820.05	1970 Aug 21 1304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1970-W1242	2440820.08	1970 Aug 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1243	2440820.35	1970 Aug 21 2030:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1970-W1244	2440820.40	1970 Aug 21 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W1246	2440820.56	1970 Aug 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W1247	2440823.04	1970 Aug 24 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W1248	2440823.08	1970 Aug 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W1249	2440823.12	1970 Aug 24 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1250	2440823.19	1970 Aug 24 1629:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1970-W1251	2440823.20	1970 Aug 24 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1253	2440823.21	1970 Aug 24 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	53	-	-
1970-W1254	2440823.25	1970 Aug 24 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1970-W1255	2440823.38	1970 Aug 24 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1970-W1256	2440824.39	1970 Aug 25 2114:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W1257	2440825.04	1970 Aug 26 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-A95	2440825.09	1970 Aug 26 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	41	-	-
1970-W1259	2440825.12	1970 Aug 26 1455:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1970-W1260	2440825.13	1970 Aug 26 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1970-W1261	2440825.25	1970 Aug 26 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1970-W1262	2440825.50	1970 Aug 26 2354:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1263	2440825.53	1970 Aug 27 0040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1264	2440825.58	1970 Aug 27 0154:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1265	2440826.17	1970 Aug 27 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1266	2440826.17	1970 Aug 27 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1267	2440826.29	1970 Aug 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W1268	2440827.04	1970 Aug 28 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1269	2440827.08	1970 Aug 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W1270	2440827.08	1970 Aug 28 1401:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-A96	2440827.12	1970 Aug 28 1446:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1970-W1272	2440827.12	1970 Aug 28 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W1273	2440827.25	1970 Aug 28 1800:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1970-W1274	2440827.25	1970 Aug 28 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W1275	2440827.25	1970 Aug 28 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1970-W1276	2440827.38	1970 Aug 28 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1970-W1278	2440830.12	1970 Aug 31 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1279	2440830.18	1970 Aug 31 1620:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1280	2440830.19	1970 Aug 31 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1281	2440830.20	1970 Aug 31 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1282	2440830.29	1970 Aug 31 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W1283	2440830.32	1970 Aug 31 1944:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	61	-	-
1970-W1284	2440830.38	1970 Aug 31 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1285	2440831.12	1970 Sep 1 1500:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1970-W1286	2440832.08	1970 Sep 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W1287	2440832.08	1970 Sep 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1288	2440832.10	1970 Sep 2 1422:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1970-A97	2440832.12	1970 Sep 2 1456:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1970-Y234	2440832.13	1970 Sep 2 1508:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	104	-	-
1970-A98	2440832.22	1970 Sep 2 1723:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	47	-	-
1970-W1290	2440832.25	1970 Sep 2 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W1291	2440832.31	1970 Sep 2 1930:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-Y235	2440832.38	1970 Sep 2 2104:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1970-W1293	2440832.42	1970 Sep 2 2209:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W1294	2440832.44	1970 Sep 2 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	67	-	-
1970-W1295	2440832.56	1970 Sep 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1296	2440833.23	1970 Sep 3 1730:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	52	-	-
1970-W1297	2440833.45	1970 Sep 3 2251:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	52	-	-
1970-W1298	2440834.04	1970 Sep 4 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1299	2440834.09	1970 Sep 4 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W1300	2440834.14	1970 Sep 4 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1301	2440834.15	1970 Sep 4 1540:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W1302	2440834.29	1970 Sep 4 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	52	-	-
1970-W1303	2440834.39	1970 Sep 4 2122:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1304	2440834.56	1970 Sep 5 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1306	2440837.48	1970 Sep 7 2335:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	CC	LC43	-	-	64	-	-
1970-W1307	2440838.14	1970 Sep 8 1521:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1970-W1308	2440838.21	1970 Sep 8 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1970-W1309	2440838.23	1970 Sep 8 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1310	2440838.30	1970 Sep 8 1910:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1970-W1311	2440838.40	1970 Sep 8 2141:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	54	-	-
1970-W1312	2440838.92	1970 Sep 9 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	66	-	-
1970-W1314	2440839.04	1970 Sep 9 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1315	2440839.04	1970 Sep 9 1301:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W1316	2440839.08	1970 Sep 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W1318	2440839.12	1970 Sep 9 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	78	-	-
1970-W1319	2440839.12	1970 Sep 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-Y239	2440839.17	1970 Sep 9 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1320	2440839.21	1970 Sep 9 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1321	2440839.28	1970 Sep 9 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W1323	2440839.42	1970 Sep 9 2159:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1970-W1324	2440839.49	1970 Sep 9 2338:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1325	2440839.57	1970 Sep 10 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W1326	2440840.16	1970 Sep 10 1553:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W1327	2440840.29	1970 Sep 10 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1970-W1328	2440840.41	1970 Sep 10 2147:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	65	-	-
1970-W1329	2440841.04	1970 Sep 11 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-A100	2440841.06	1970 Sep 11 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1970-W1330	2440841.08	1970 Sep 11 1357:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	53	-	-
1970-W1331	2440841.08	1970 Sep 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W1332	2440841.15	1970 Sep 11 1530:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1970-W1333	2440841.16	1970 Sep 11 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1334	2440841.29	1970 Sep 11 1859:59	Rocketsonde	-	-	Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W1335	2440841.38	1970 Sep 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W1336	2440841.57	1970 Sep 12 0146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1337	2440842.26	1970 Sep 12 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W1338	2440844.05	1970 Sep 14 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1339	2440844.10	1970 Sep 14 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1341	2440844.11	1970 Sep 14 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W1342	2440844.16	1970 Sep 14 1544:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W1343	2440844.17	1970 Sep 14 1557:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1344	2440844.17	1970 Sep 14 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W1345	2440844.19	1970 Sep 14 1636:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1970-W1346	2440844.21	1970 Sep 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1347	2440844.25	1970 Sep 14 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1970-W1348	2440844.38	1970 Sep 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1349	2440844.46	1970 Sep 14 2300:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1350	2440844.56	1970 Sep 15 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1351	2440845.10	1970 Sep 15 1424:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	61	-	-
1970-W1352	2440845.12	1970 Sep 15 1456:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	52	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1353	2440845.15	1970 Sep 15 1532:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	59	-	-
1970-W1354	2440845.26	1970 Sep 15 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	53	-	-
1970-W1355	2440845.39	1970 Sep 15 2122:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	61	-	-
1970-W1356	2440845.44	1970 Sep 15 2230:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1970-W1358	2440846.08	1970 Sep 16 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W1359	2440846.12	1970 Sep 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1970-W1361	2440846.15	1970 Sep 16 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1362	2440846.19	1970 Sep 16 1636:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1970-W1363	2440846.20	1970 Sep 16 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1970-W1364	2440846.21	1970 Sep 16 1656:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1970-W1365	2440846.22	1970 Sep 16 1721:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	67	-	-
1970-Y243	2440846.23	1970 Sep 16 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1366	2440846.27	1970 Sep 16 1822:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1970-W1367	2440846.27	1970 Sep 16 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1970-W1368	2440846.28	1970 Sep 16 1836:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SNI	-	-	-	55	-	-
1970-W1369	2440846.30	1970 Sep 16 1904:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	54	-	-
1970-W1370	2440846.30	1970 Sep 16 1914:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1970-W1371	2440846.30	1970 Sep 16 1914:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1372	2440846.42	1970 Sep 16 2200:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1375	2440846.59	1970 Sep 17 0214:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1376	2440847.14	1970 Sep 17 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1377	2440847.19	1970 Sep 17 1629:00	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	57	-	-
1970-W1378	2440847.19	1970 Sep 17 1637:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1379	2440847.21	1970 Sep 17 1657:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1970-W1381	2440847.35	1970 Sep 17 2030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1970-W1382	2440847.38	1970 Sep 17 2106:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	65	-	-
1970-W1383	2440848.04	1970 Sep 18 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1384	2440848.11	1970 Sep 18 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1385	2440848.11	1970 Sep 18 1445:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1970-W1387	2440848.32	1970 Sep 18 1944:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1388	2440848.38	1970 Sep 18 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1970-A101	2440849.15	1970 Sep 19 1531:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	48	-	-
1970-W1390	2440849.16	1970 Sep 19 1549:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1970-W1391	2440849.18	1970 Sep 19 1614:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1970-W1394	2440851.12	1970 Sep 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1970-W1395	2440851.16	1970 Sep 21 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1970-W1396	2440851.16	1970 Sep 21 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1397	2440851.19	1970 Sep 21 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1398	2440851.19	1970 Sep 21 1636:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1399	2440851.20	1970 Sep 21 1652:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1970-W1400	2440851.23	1970 Sep 21 1733:00	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	64	-	-
1970-W1401	2440851.25	1970 Sep 21 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1970-W1402	2440851.31	1970 Sep 21 1923:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1403	2440851.33	1970 Sep 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W1404	2440851.38	1970 Sep 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1405	2440851.56	1970 Sep 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1406	2440852.33	1970 Sep 22 1953:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	53	-	-
1970-W1407	2440852.41	1970 Sep 22 2152:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	62	-	-
1970-W1408	2440853.04	1970 Sep 23 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-A102	2440853.08	1970 Sep 23 1349:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1970-W1409	2440853.08	1970 Sep 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1410	2440853.10	1970 Sep 23 1423:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	67	-	-
1970-Y245	2440853.12	1970 Sep 23 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	104	-	-
1970-W1412	2440853.20	1970 Sep 23 1641:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	51	-	-
1970-W1413	2440853.25	1970 Sep 23 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1414	2440853.25	1970 Sep 23 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1970-Y246	2440853.28	1970 Sep 23 1845:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1415	2440853.31	1970 Sep 23 1931:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1416	2440853.33	1970 Sep 23 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1970-W1417	2440853.46	1970 Sep 23 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1418	2440853.58	1970 Sep 24 0154:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1419	2440854.39	1970 Sep 24 2122:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	63	-	-
1970-W1421	2440855.08	1970 Sep 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1422	2440855.09	1970 Sep 25 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W1423	2440855.25	1970 Sep 25 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1970-W1424	2440855.31	1970 Sep 25 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1425	2440855.38	1970 Sep 25 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1426	2440855.56	1970 Sep 26 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1970-W1427	2440858.04	1970 Sep 28 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1428	2440858.08	1970 Sep 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W1429	2440858.10	1970 Sep 28 1422:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W1430	2440858.16	1970 Sep 28 1544:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-W1431	2440858.17	1970 Sep 28 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1970-W1432	2440858.25	1970 Sep 28 1806:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1970-A105	2440858.29	1970 Sep 28 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W1433	2440858.57	1970 Sep 29 0146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-A106	2440859.23	1970 Sep 29 1737:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	48	-	-
1970-W1434	2440859.26	1970 Sep 29 1814:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1970-W1435	2440859.41	1970 Sep 29 2149:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1970-W1436	2440859.41	1970 Sep 29 2152:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1970-W1437	2440859.92	1970 Sep 30 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	63	-	-
1970-W1439	2440860.04	1970 Sep 30 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1440	2440860.11	1970 Sep 30 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-Y249	2440860.12	1970 Sep 30 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1970-W1442	2440860.27	1970 Sep 30 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1970-W1443	2440860.33	1970 Sep 30 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1444	2440860.59	1970 Oct 1 0204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1445	2440861.42	1970 Oct 1 2201:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	BERM	-	-	-	56	-	-
1970-W1446	2440862.04	1970 Oct 2 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W1447	2440862.07	1970 Oct 2 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	52	-	-
1970-W1448	2440862.08	1970 Oct 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1449	2440862.12	1970 Oct 2 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1450	2440862.12	1970 Oct 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1451	2440862.23	1970 Oct 2 1730:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1970-W1452	2440862.56	1970 Oct 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1453	2440865.08	1970 Oct 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1454	2440865.09	1970 Oct 5 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1970-W1456	2440865.15	1970 Oct 5 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1970-A107	2440865.17	1970 Oct 5 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1970-W1457	2440865.27	1970 Oct 5 1825:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1458	2440865.38	1970 Oct 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1970-W1459	2440865.42	1970 Oct 5 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1460	2440865.54	1970 Oct 6 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W1461	2440865.56	1970 Oct 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-A108	2440865.62	1970 Oct 6 0300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	46	-	-
1970-W1462	2440865.69	1970 Oct 6 0430:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	77	-	-
1970-W1463	2440866.12	1970 Oct 6 1456:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W1464	2440866.19	1970 Oct 6 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1466	2440866.42	1970 Oct 6 2159:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1970-W1467	2440866.54	1970 Oct 7 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-Y253	2440866.92	1970 Oct 7 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	91	-	-
1970-W1469	2440867.04	1970 Oct 7 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1470	2440867.08	1970 Oct 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-A109	2440867.10	1970 Oct 7 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	43	-	-
1970-W1471	2440867.12	1970 Oct 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1970-W1472	2440867.13	1970 Oct 7 1506:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1970-Y254	2440867.13	1970 Oct 7 1506:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1970-W1473	2440867.15	1970 Oct 7 1530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1970-Y255	2440867.15	1970 Oct 7 1533:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1475	2440867.18	1970 Oct 7 1623:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1970-W1476	2440867.22	1970 Oct 7 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1477	2440867.27	1970 Oct 7 1823:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1970-Y256	2440867.43	1970 Oct 7 2219:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1970-W1478	2440867.61	1970 Oct 8 0235:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1482	2440868.23	1970 Oct 8 1724:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1483	2440868.25	1970 Oct 8 1755:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1484	2440868.29	1970 Oct 8 1859:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1970-W1485	2440868.42	1970 Oct 8 2203:59	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	64	-	-
1970-W1486	2440869.04	1970 Oct 9 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1970-W1487	2440869.08	1970 Oct 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1488	2440869.10	1970 Oct 9 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1970-W1489	2440869.12	1970 Oct 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W1491	2440869.19	1970 Oct 9 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1492	2440869.21	1970 Oct 9 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1970-W1493	2440869.27	1970 Oct 9 1824:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W1494	2440869.29	1970 Oct 9 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1495	2440869.37	1970 Oct 9 2052:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1970-W1496	2440869.38	1970 Oct 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1497	2440869.60	1970 Oct 10 0221:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1499	2440872.13	1970 Oct 12 1509:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	64	-	-
1970-W1500	2440872.29	1970 Oct 12 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1501	2440872.57	1970 Oct 13 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1502	2440873.12	1970 Oct 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1970-W1503	2440873.29	1970 Oct 13 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1504	2440873.38	1970 Oct 13 2100:00	Rocketsonde	-	-	Chaff	-	-	-	KAU	-	-	-	62	-	-
1970-W1505	2440873.55	1970 Oct 14 0114:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	67	-	-
1970-W1506	2440873.60	1970 Oct 14 0225:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	69	-	-
1970-W1507	2440873.65	1970 Oct 14 0336:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1970-W1508	2440874.04	1970 Oct 14 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1509	2440874.08	1970 Oct 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1970-W1510	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1970-W1511	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	61	-	-
1970-W1512	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1514	2440874.22	1970 Oct 14 1717:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1970-W1515	2440874.25	1970 Oct 14 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1970-W1516	2440874.26	1970 Oct 14 1809:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1517	2440874.26	1970 Oct 14 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W1518	2440874.32	1970 Oct 14 1937:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1519	2440874.33	1970 Oct 14 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	53	-	-
1970-W1520	2440874.34	1970 Oct 14 2015:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	61	-	-
1970-W1521	2440874.43	1970 Oct 14 2215:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	59	-	-
1970-W1522	2440874.46	1970 Oct 14 2307:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1523	2440874.56	1970 Oct 15 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W1524	2440875.14	1970 Oct 15 1514:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1970-W1525	2440875.14	1970 Oct 15 1527:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W1526	2440876.04	1970 Oct 16 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1527	2440876.06	1970 Oct 16 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1970-W1528	2440876.08	1970 Oct 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1530	2440876.12	1970 Oct 16 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1531	2440876.14	1970 Oct 16 1517:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	55	-	-
1970-W1532	2440876.16	1970 Oct 16 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1970-W1533	2440876.21	1970 Oct 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1534	2440876.25	1970 Oct 16 1802:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1970-W1535	2440876.32	1970 Oct 16 1934:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1536	2440876.38	1970 Oct 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1537	2440876.56	1970 Oct 17 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1539	2440879.11	1970 Oct 19 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1540	2440879.11	1970 Oct 19 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W1541	2440879.15	1970 Oct 19 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1542	2440879.18	1970 Oct 19 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1543	2440879.21	1970 Oct 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1970-W1544	2440879.34	1970 Oct 19 2015:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1545	2440879.39	1970 Oct 19 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1546	2440879.56	1970 Oct 20 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1547	2440880.16	1970 Oct 20 1556:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1970-W1548	2440881.06	1970 Oct 21 1330:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W1549	2440881.08	1970 Oct 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	53	-	-
1970-W1550	2440881.11	1970 Oct 21 1432:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	65	-	-
1970-W1551	2440881.12	1970 Oct 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1552	2440881.14	1970 Oct 21 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-Y264	2440881.15	1970 Oct 21 1543:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1554	2440881.26	1970 Oct 21 1815:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1970-W1555	2440881.29	1970 Oct 21 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1556	2440881.33	1970 Oct 21 1958:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1970-Y265	2440881.38	1970 Oct 21 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1970-W1557	2440881.41	1970 Oct 21 2156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1970-W1558	2440881.56	1970 Oct 22 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1970-W1559	2440882.15	1970 Oct 22 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	67	-	-
1970-W1560	2440882.19	1970 Oct 22 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1561	2440882.38	1970 Oct 22 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-W1562	2440883.09	1970 Oct 23 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1563	2440883.11	1970 Oct 23 1442:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-A113	2440883.12	1970 Oct 23 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1970-W1564	2440883.12	1970 Oct 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	54	-	-
1970-W1565	2440883.21	1970 Oct 23 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1566	2440883.29	1970 Oct 23 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	50	-	-
1970-W1567	2440883.35	1970 Oct 23 2022:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1970-W1568	2440883.48	1970 Oct 23 2325:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1970-W1569	2440883.58	1970 Oct 24 0155:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1570	2440886.08	1970 Oct 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1571	2440886.12	1970 Oct 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1572	2440886.21	1970 Oct 26 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1573	2440886.21	1970 Oct 26 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1574	2440886.21	1970 Oct 26 1707:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	54	-	-
1970-W1575	2440886.25	1970 Oct 26 1807:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1970-W1576	2440886.28	1970 Oct 26 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1577	2440886.33	1970 Oct 26 1949:59	Rocketsonde	-	-	Chaff	-	-	-	WI	-	-	-	54	-	-
1970-W1578	2440886.33	1970 Oct 26 2001:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1970-W1579	2440886.38	1970 Oct 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1580	2440886.61	1970 Oct 27 0232:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1581	2440887.43	1970 Oct 27 2214:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	50	-	-
1970-Y268	2440887.94	1970 Oct 28 1030:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	91	-	-
1970-W1583	2440888.08	1970 Oct 28 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1970-W1584	2440888.09	1970 Oct 28 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1585	2440888.09	1970 Oct 28 1413:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	66	-	-
1970-W1586	2440888.12	1970 Oct 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1588	2440888.17	1970 Oct 28 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-Y269	2440888.18	1970 Oct 28 1614:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1970-W1589	2440888.21	1970 Oct 28 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	55	-	-
1970-W1590	2440888.22	1970 Oct 28 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1591	2440888.29	1970 Oct 28 1853:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W1592	2440888.33	1970 Oct 28 1952:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	63	-	-
1970-W1593	2440888.35	1970 Oct 28 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1594	2440888.40	1970 Oct 28 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	52	-	-
1970-W1595	2440888.44	1970 Oct 28 2231:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1596	2440888.56	1970 Oct 29 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1597	2440889.17	1970 Oct 29 1609:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1970-W1598	2440889.20	1970 Oct 29 1645:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1599	2440889.22	1970 Oct 29 1710:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	62	-	-
1970-W1600	2440889.25	1970 Oct 29 1754:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	61	-	-
1970-W1601	2440889.31	1970 Oct 29 1924:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	62	-	-
1970-W1602	2440890.05	1970 Oct 30 1314:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1970-W1603	2440890.08	1970 Oct 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1604	2440890.08	1970 Oct 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-W1605	2440890.12	1970 Oct 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1970-W1607	2440890.21	1970 Oct 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1970-W1608	2440890.33	1970 Oct 30 1952:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1970-W1609	2440890.34	1970 Oct 30 2009:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1610	2440890.35	1970 Oct 30 2026:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	59	-	-
1970-W1611	2440890.38	1970 Oct 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1613	2440890.61	1970 Oct 31 0232:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W1614	2440891.33	1970 Oct 31 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W1615	2440893.08	1970 Nov 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1970-W1616	2440893.12	1970 Nov 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-A115	2440893.15	1970 Nov 2 1534:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1970-W1618	2440893.17	1970 Nov 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1619	2440893.19	1970 Nov 2 1630:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	72	-	-
1970-W1620	2440893.21	1970 Nov 2 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1621	2440893.32	1970 Nov 2 1941:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1970-W1622	2440893.33	1970 Nov 2 2000:00	Rocketsonde	-	-	-	-	-	-	GRLY	-	-	-	63	-	-
1970-W1623	2440893.36	1970 Nov 2 2044:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1625	2440894.29	1970 Nov 3 1859:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1970-W1626	2440894.40	1970 Nov 3 2129:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1970-Y275	2440895.00	1970 Nov 4 1200:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	93	-	-
1970-W1627	2440895.08	1970 Nov 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1628	2440895.08	1970 Nov 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1629	2440895.09	1970 Nov 4 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1970-W1630	2440895.12	1970 Nov 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1970-W1631	2440895.14	1970 Nov 4 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1970-Y276	2440895.17	1970 Nov 4 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1970-W1633	2440895.23	1970 Nov 4 1732:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1970-A116	2440895.35	1970 Nov 4 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W1634	2440895.42	1970 Nov 4 2159:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1635	2440895.45	1970 Nov 4 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1636	2440895.57	1970 Nov 5 0144:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1970-W1637	2440895.58	1970 Nov 5 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1638	2440895.73	1970 Nov 5 0530:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1970-W1639	2440896.25	1970 Nov 5 1800:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	66	-	-
1970-A118	2440896.42	1970 Nov 5 2200:59	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1970-W1640	2440897.02	1970 Nov 6 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1641	2440897.08	1970 Nov 6 1400:00	Rocketsonde	-	-	Met Para,STS	-	-	-	SHER	-	-	-	55	-	-
1970-W1642	2440897.14	1970 Nov 6 1520:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	59	-	-
1970-A119	2440897.33	1970 Nov 6 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	48	-	-
1970-W1645	2440897.35	1970 Nov 6 2030:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1646	2440897.40	1970 Nov 6 2130:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	74	-	-
1970-W1647	2440897.42	1970 Nov 6 2203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1648	2440897.62	1970 Nov 7 0255:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1970-W1649	2440900.07	1970 Nov 9 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1970-W1650	2440900.08	1970 Nov 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1651	2440900.08	1970 Nov 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1653	2440900.21	1970 Nov 9 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W1654	2440900.28	1970 Nov 9 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1970-W1655	2440900.29	1970 Nov 9 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1970-W1656	2440900.34	1970 Nov 9 2015:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W1657	2440900.38	1970 Nov 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1658	2440900.56	1970 Nov 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W1659	2440901.21	1970 Nov 10 1709:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	50	-	-
1970-W1661	2440901.29	1970 Nov 10 1855:00	Rocketsonde	-	-	Met Para,STS	-	-	-	SHER	-	-	-	53	-	-
1970-A120	2440901.38	1970 Nov 10 2111:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	49	-	-
1970-W1662	2440901.54	1970 Nov 11 0059:59	Rocketsonde	-	-	Met Para,STS	-	-	-	SHER	-	-	-	57	-	-
1970-W1663	2440903.11	1970 Nov 12 1440:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1970-W1665	2440903.17	1970 Nov 12 1558:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	55	-	-
1970-A121	2440903.38	1970 Nov 12 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	47	-	-
1970-W1666	2440903.38	1970 Nov 12 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	52	-	-
1970-Y281	2440903.94	1970 Nov 13 1030:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	94	-	-
1970-W1667	2440904.08	1970 Nov 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1668	2440904.08	1970 Nov 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1970-Y282	2440904.17	1970 Nov 13 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1970-W1670	2440904.25	1970 Nov 13 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1970-W1671	2440904.29	1970 Nov 13 1851:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1672	2440904.29	1970 Nov 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1673	2440904.33	1970 Nov 13 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	50	-	-
1970-W1675	2440907.08	1970 Nov 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1970-W1676	2440907.08	1970 Nov 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1970-W1677	2440907.12	1970 Nov 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1679	2440907.16	1970 Nov 16 1545:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1970-W1680	2440907.18	1970 Nov 16 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1681	2440907.30	1970 Nov 16 1915:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-W1682	2440907.32	1970 Nov 16 1944:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W1683	2440907.38	1970 Nov 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1685	2440908.27	1970 Nov 17 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	70	-	-
1970-W1686	2440908.33	1970 Nov 17 2000:00	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	72	-	-
1970-W1687	2440908.92	1970 Nov 18 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	52	-	-
1970-W1688	2440909.08	1970 Nov 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1970-W1689	2440909.08	1970 Nov 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1691	2440909.16	1970 Nov 18 1556:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1970-Y288	2440909.17	1970 Nov 18 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1970-W1692	2440909.28	1970 Nov 18 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1693	2440909.35	1970 Nov 18 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1694	2440909.36	1970 Nov 18 2045:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	51	-	-
1970-Y289	2440909.42	1970 Nov 18 2209:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1970-W1695	2440909.44	1970 Nov 18 2234:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1970-W1696	2440909.48	1970 Nov 18 2330:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1697	2440909.60	1970 Nov 19 0230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1970-A122	2440910.13	1970 Nov 19 1511:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	49	-	-
1970-W1699	2440910.17	1970 Nov 19 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1700	2440910.24	1970 Nov 19 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1701	2440910.24	1970 Nov 19 1747:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	54	-	-
1970-W1702	2440911.08	1970 Nov 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1703	2440911.08	1970 Nov 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1704	2440911.12	1970 Nov 20 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1970-W1705	2440911.15	1970 Nov 20 1531:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	71	-	-
1970-W1707	2440911.19	1970 Nov 20 1626:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1708	2440911.30	1970 Nov 20 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1709	2440911.58	1970 Nov 21 0152:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1710	2440912.36	1970 Nov 21 2045:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	63	-	-
1970-W1711	2440914.08	1970 Nov 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1712	2440914.09	1970 Nov 23 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1970-W1713	2440914.11	1970 Nov 23 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1970-W1714	2440914.12	1970 Nov 23 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1715	2440914.18	1970 Nov 23 1614:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	73	-	-
1970-W1717	2440914.30	1970 Nov 23 1914:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1970-W1718	2440914.32	1970 Nov 23 1942:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1719	2440914.34	1970 Nov 23 2010:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1720	2440914.46	1970 Nov 23 2300:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1970-W1721	2440914.56	1970 Nov 24 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1723	2440915.28	1970 Nov 24 1849:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	68	-	-
1970-A123	2440915.38	1970 Nov 24 2100:00	Rocketsonde	-	-	Met Para	-	-	-	KAU	-	-	-	45	-	-
1970-W1724	2440915.38	1970 Nov 24 2101:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	54	-	-
1970-Y300	2440915.92	1970 Nov 25 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	93	-	-
1970-W1726	2440916.08	1970 Nov 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1970-W1727	2440916.08	1970 Nov 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1728	2440916.12	1970 Nov 25 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1729	2440916.13	1970 Nov 25 1511:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	59	-	-
1970-W1730	2440916.16	1970 Nov 25 1556:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	61	-	-
1970-W1731	2440916.17	1970 Nov 25 1559:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	54	-	-
1970-W1732	2440916.20	1970 Nov 25 1644:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W1733	2440916.21	1970 Nov 25 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1735	2440916.29	1970 Nov 25 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1970-W1736	2440916.50	1970 Nov 25 2356:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1737	2440916.50	1970 Nov 26 0000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1970-W1738	2440918.10	1970 Nov 27 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1739	2440918.14	1970 Nov 27 1514:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1740	2440918.17	1970 Nov 27 1559:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	59	-	-
1970-W1741	2440918.17	1970 Nov 27 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1970-W1742	2440918.46	1970 Nov 27 2304:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1970-W1743	2440918.49	1970 Nov 27 2342:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1747	2440921.08	1970 Nov 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1748	2440921.13	1970 Nov 30 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1750	2440921.26	1970 Nov 30 1818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1970-W1751	2440921.27	1970 Nov 30 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1970-W1752	2440921.28	1970 Nov 30 1846:59	Rocketsonde	-	-	Met Sphere	-	-	-	WI	-	-	-	56	-	-
1970-W1753	2440921.29	1970 Nov 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1970-W1754	2440921.37	1970 Nov 30 2053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1755	2440921.38	1970 Nov 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1756	2440921.38	1970 Nov 30 2110:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	57	-	-
1970-W1757	2440921.57	1970 Dec 1 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1759	2440922.20	1970 Dec 1 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-Y307	2440922.92	1970 Dec 2 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	93	-	-
1970-W1760	2440923.04	1970 Dec 2 1259:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1970-W1761	2440923.08	1970 Dec 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1970-W1762	2440923.12	1970 Dec 2 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1970-W1763	2440923.12	1970 Dec 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1765	2440923.29	1970 Dec 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1970-W1766	2440923.40	1970 Dec 2 2130:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1767	2440923.56	1970 Dec 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1970-W1768	2440924.12	1970 Dec 3 1453:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	52	-	-
1970-W1770	2440924.23	1970 Dec 3 1730:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	70	-	-
1970-Y312	2440924.27	1970 Dec 3 1833:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1771	2440924.30	1970 Dec 3 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1970-W1772	2440924.34	1970 Dec 3 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1773	2440925.08	1970 Dec 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1774	2440925.08	1970 Dec 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1775	2440925.09	1970 Dec 4 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1970-W1777	2440925.16	1970 Dec 4 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1970-W1778	2440925.22	1970 Dec 4 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W1779	2440925.27	1970 Dec 4 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1970-W1780	2440925.31	1970 Dec 4 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1970-W1781	2440925.48	1970 Dec 4 2330:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W1782	2440928.08	1970 Dec 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-W1783	2440928.09	1970 Dec 7 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1970-W1784	2440928.20	1970 Dec 7 1643:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1785	2440928.29	1970 Dec 7 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1786	2440928.39	1970 Dec 7 2122:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1970-W1787	2440928.56	1970 Dec 8 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1970-W1788	2440929.12	1970 Dec 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1970-W1790	2440929.38	1970 Dec 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1970-W1791	2440929.38	1970 Dec 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1792	2440930.08	1970 Dec 9 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1970-W1793	2440930.08	1970 Dec 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1970-W1794	2440930.10	1970 Dec 9 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1970-W1795	2440930.12	1970 Dec 9 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1797	2440930.17	1970 Dec 9 1606:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1970-Y320	2440930.21	1970 Dec 9 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1970-W1798	2440930.27	1970 Dec 9 1824:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1970-W1799	2440930.27	1970 Dec 9 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1970-A126	2440930.29	1970 Dec 9 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	42	-	-
1970-W1800	2440930.38	1970 Dec 9 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-W1802	2440931.33	1970 Dec 10 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1970-W1803	2440932.08	1970 Dec 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1804	2440932.12	1970 Dec 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1970-A127	2440932.16	1970 Dec 11 1545:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WI	-	-	-	47	-	-
1970-W1805	2440932.17	1970 Dec 11 1601:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	56	-	-
1970-W1806	2440932.18	1970 Dec 11 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1807	2440932.22	1970 Dec 11 1715:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	56	-	-
1970-W1808	2440932.22	1970 Dec 11 1723:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	72	-	-
1970-W1809	2440932.23	1970 Dec 11 1730:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	58	-	-
1970-W1811	2440932.26	1970 Dec 11 1809:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	59	-	-
1970-W1812	2440932.27	1970 Dec 11 1835:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WI	-	-	-	61	-	-
1970-W1813	2440932.30	1970 Dec 11 1904:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	70	-	-
1970-A128	2440932.32	1970 Dec 11 1941:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WI	-	-	-	41	-	-
1970-W1814	2440932.34	1970 Dec 11 2006:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WI	-	-	-	60	-	-
1970-W1815	2440932.56	1970 Dec 12 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-A129	2440935.08	1970 Dec 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	43	-	-
1970-W1816	2440935.12	1970 Dec 14 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1970-W1817	2440935.22	1970 Dec 14 1721:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1818	2440935.25	1970 Dec 14 1807:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1970-W1819	2440935.27	1970 Dec 14 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1820	2440935.29	1970 Dec 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1970-W1821	2440935.40	1970 Dec 14 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1822	2440935.47	1970 Dec 14 2315:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1970-W1823	2440935.61	1970 Dec 15 0233:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1824	2440936.19	1970 Dec 15 1626:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	54	-	-
1970-W1825	2440936.26	1970 Dec 15 1818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1827	2440937.08	1970 Dec 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1970-W1828	2440937.12	1970 Dec 16 1451:00	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	69	-	-
1970-W1829	2440937.12	1970 Dec 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-A131	2440937.13	1970 Dec 16 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	47	-	-
1970-W1830	2440937.18	1970 Dec 16 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1831	2440937.21	1970 Dec 16 1704:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1970-Y330	2440937.23	1970 Dec 16 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	83	-	-
1970-W1832	2440937.23	1970 Dec 16 1735:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	70	-	-
1970-A134	2440937.29	1970 Dec 16 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	45	-	-
1970-W1833	2440937.32	1970 Dec 16 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1970-A136	2440937.38	1970 Dec 16 2100:00	Rocketsonde	-	-	-	-	-	-	GRLY	-	-	-	46	-	-
1970-W1834	2440937.38	1970 Dec 16 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	71	-	-
1970-W1835	2440937.40	1970 Dec 16 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1836	2440937.47	1970 Dec 16 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1970-W1837	2440937.56	1970 Dec 17 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W1838	2440938.14	1970 Dec 17 1526:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1970-W1840	2440938.16	1970 Dec 17 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1970-W1841	2440938.17	1970 Dec 17 1559:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	76	-	-
1970-W1842	2440938.22	1970 Dec 17 1715:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1970-W1843	2440938.38	1970 Dec 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1970-W1844	2440939.08	1970 Dec 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1970-W1845	2440939.09	1970 Dec 18 1414:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1847	2440939.19	1970 Dec 18 1634:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CELAT	-	-	-	54	-	-
1970-W1848	2440939.22	1970 Dec 18 1715:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1970-W1849	2440939.30	1970 Dec 18 1909:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	58	-	-
1970-A137	2440939.38	1970 Dec 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	49	-	-
1970-W1850	2440939.41	1970 Dec 18 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1970-W1851	2440939.56	1970 Dec 19 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-A138	2440940.29	1970 Dec 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	45	-	-
1970-W1852	2440942.12	1970 Dec 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1970-W1853	2440942.15	1970 Dec 21 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	57	-	-
1970-W1855	2440942.29	1970 Dec 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1970-W1856	2440942.38	1970 Dec 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1970-W1857	2440942.57	1970 Dec 22 0136:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	63	-	-
1970-W1858	2440943.02	1970 Dec 22 1230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1970-W1859	2440943.15	1970 Dec 22 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1970-W1861	2440943.16	1970 Dec 22 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1970-A139	2440943.30	1970 Dec 22 1914:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	46	-	-
1970-W1862	2440943.38	1970 Dec 22 2108:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1970-W1863	2440943.50	1970 Dec 23 0000:00	Rocketsonde	-	-	-	-	-	-	GRLY	-	-	-	61	-	-
1970-W1864	2440944.08	1970 Dec 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1970-W1865	2440944.12	1970 Dec 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	54	-	-
1970-Y339	2440944.21	1970 Dec 23 1706:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1970-W1867	2440944.24	1970 Dec 23 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1970-W1868	2440944.27	1970 Dec 23 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1970-W1869	2440944.29	1970 Dec 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1970-W1870	2440944.31	1970 Dec 23 1930:00	Rocketsonde	-	-	Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W1871	2440944.34	1970 Dec 23 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1873	2440944.42	1970 Dec 23 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1970-W1874	2440944.57	1970 Dec 24 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1970-W1876	2440947.29	1970 Dec 26 1859:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	64	-	-
1970-W1877	2440949.12	1970 Dec 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1970-W1879	2440949.27	1970 Dec 28 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1970-W1880	2440949.29	1970 Dec 28 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1970-W1881	2440949.48	1970 Dec 28 2330:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	61	-	-
1970-W1882	2440949.56	1970 Dec 29 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W1883	2440950.15	1970 Dec 29 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1970-W1885	2440950.32	1970 Dec 29 1937:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1970-W1886	2440950.39	1970 Dec 29 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1970-W1887	2440951.08	1970 Dec 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1970-W1888	2440951.12	1970 Dec 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1970-W1891	2440951.29	1970 Dec 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-W1892	2440951.39	1970 Dec 30 2114:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	GRLY	-	-	-	56	-	-
1970-W1893	2440951.41	1970 Dec 30 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1970-W1894	2440951.57	1970 Dec 31 0136:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1970-W1896	2440952.31	1970 Dec 31 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1970-W1897	2440952.38	1970 Dec 31 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W02	2440955.35	1971 Jan 3 2018:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	50	-	-
1971-W975	2441154.28	1971 Jul 21 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-W976	2441154.42	1971 Jul 21 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W977	2441154.57	1971 Jul 22 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W978	2441155.26	1971 Jul 22 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W979	2441155.39	1971 Jul 22 2119:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W980	2441156.06	1971 Jul 23 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W981	2441156.08	1971 Jul 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W982	2441156.09	1971 Jul 23 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1971-W983	2441156.12	1971 Jul 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-Y226	2441156.13	1971 Jul 23 1511:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W984	2441156.17	1971 Jul 23 1559:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W985	2441156.19	1971 Jul 23 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W986	2441156.31	1971 Jul 23 1930:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	58	-	-
1971-W987	2441156.39	1971 Jul 23 2126:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W988	2441156.44	1971 Jul 23 2238:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W989	2441157.03	1971 Jul 24 1245:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W990	2441158.03	1971 Jul 25 1245:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W991	2441159.08	1971 Jul 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W992	2441159.09	1971 Jul 26 1415:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W993	2441159.12	1971 Jul 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1971-W994	2441159.13	1971 Jul 26 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W995	2441159.19	1971 Jul 26 1635:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	66	-	-
1971-W996	2441159.21	1971 Jul 26 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	62	-	-
1971-W997	2441159.22	1971 Jul 26 1722:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W998	2441159.30	1971 Jul 26 1908:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W999	2441159.38	1971 Jul 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1000	2441159.57	1971 Jul 27 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	53	-	-
1971-W1001	2441160.14	1971 Jul 27 1525:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1002	2441160.23	1971 Jul 27 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	54	-	-
1971-Y228	2441160.92	1971 Jul 28 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	91	-	-
1971-W1003	2441161.08	1971 Jul 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-A63	2441161.09	1971 Jul 28 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	47	-	-
1971-W1006	2441161.12	1971 Jul 28 1448:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1007	2441161.12	1971 Jul 28 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1008	2441161.12	1971 Jul 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1010	2441161.15	1971 Jul 28 1530:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1971-Y230	2441161.15	1971 Jul 28 1534:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	89	-	-
1971-W1011	2441161.17	1971 Jul 28 1559:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W1012	2441161.18	1971 Jul 28 1614:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	69	-	-
1971-W1013	2441161.20	1971 Jul 28 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1971-W1015	2441161.27	1971 Jul 28 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1971-W1016	2441161.56	1971 Jul 29 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1017	2441162.10	1971 Jul 29 1420:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	63	-	-
1971-W1018	2441162.22	1971 Jul 29 1712:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W1019	2441162.25	1971 Jul 29 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1020	2441163.08	1971 Jul 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1021	2441163.09	1971 Jul 30 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W1022	2441163.10	1971 Jul 30 1426:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	50	-	-
1971-W1023	2441163.12	1971 Jul 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W1024	2441163.22	1971 Jul 30 1712:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	60	-	-
1971-W1025	2441163.24	1971 Jul 30 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1026	2441163.26	1971 Jul 30 1810:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	50	-	-
1971-W1027	2441163.29	1971 Jul 30 1903:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	61	-	-
1971-W1028	2441163.38	1971 Jul 30 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1031	2441163.59	1971 Jul 31 0210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	57	-	-
1971-W1032	2441166.07	1971 Aug 2 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W1033	2441166.08	1971 Aug 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W1034	2441166.10	1971 Aug 2 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W1035	2441166.12	1971 Aug 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1036	2441166.25	1971 Aug 2 1759:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	59	-	-
1971-W1037	2441166.25	1971 Aug 2 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1038	2441166.29	1971 Aug 2 1859:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	63	-	-
1971-A65	2441166.29	1971 Aug 2 1859:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	49	-	-
1971-W1039	2441166.33	1971 Aug 2 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	55	-	-
1971-W1040	2441166.40	1971 Aug 2 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1041	2441166.56	1971 Aug 3 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1042	2441167.12	1971 Aug 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1971-W1044	2441167.34	1971 Aug 3 2010:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-Y234	2441167.92	1971 Aug 4 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W1045	2441168.06	1971 Aug 4 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W1046	2441168.08	1971 Aug 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1047	2441168.12	1971 Aug 4 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1971-W1048	2441168.13	1971 Aug 4 1508:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1971-Y238	2441168.14	1971 Aug 4 1523:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W1050	2441168.14	1971 Aug 4 1523:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1051	2441168.17	1971 Aug 4 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1052	2441168.17	1971 Aug 4 1610:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-A66	2441168.22	1971 Aug 4 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	43	-	-
1971-W1053	2441168.24	1971 Aug 4 1751:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	62	-	-
1971-W1054	2441168.34	1971 Aug 4 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	51	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-Y239	2441168.38	1971 Aug 4 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W1055	2441168.39	1971 Aug 4 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W1056	2441168.56	1971 Aug 5 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W1057	2441169.21	1971 Aug 5 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1058	2441169.22	1971 Aug 5 1715:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	69	-	-
1971-W1059	2441169.38	1971 Aug 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W1060	2441170.07	1971 Aug 6 1341:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1061	2441170.08	1971 Aug 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1062	2441170.09	1971 Aug 6 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W1064	2441170.12	1971 Aug 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W1065	2441170.13	1971 Aug 6 1504:59	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	64	-	-
1971-W1066	2441170.16	1971 Aug 6 1556:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1067	2441170.20	1971 Aug 6 1641:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1971-W1068	2441170.24	1971 Aug 6 1752:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	67	-	-
1971-W1069	2441170.38	1971 Aug 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W1070	2441170.56	1971 Aug 7 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-Y240	2441171.38	1971 Aug 7 2106:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W1072	2441171.40	1971 Aug 7 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1073	2441173.08	1971 Aug 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W1074	2441173.11	1971 Aug 9 1444:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-A67	2441173.13	1971 Aug 9 1510:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1971-W1075	2441173.17	1971 Aug 9 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-A68	2441173.24	1971 Aug 9 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	47	-	-
1971-W1076	2441173.31	1971 Aug 9 1930:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	60	-	-
1971-W1078	2441173.44	1971 Aug 9 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W1079	2441173.56	1971 Aug 10 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1081	2441174.47	1971 Aug 10 2318:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-Y242	2441174.94	1971 Aug 11 1034:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	90	-	-
1971-W1082	2441175.08	1971 Aug 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W1083	2441175.11	1971 Aug 11 1438:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-Y246	2441175.13	1971 Aug 11 1501:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W1085	2441175.15	1971 Aug 11 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	69	-	-
1971-W1086	2441175.16	1971 Aug 11 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1087	2441175.18	1971 Aug 11 1615:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W1088	2441175.18	1971 Aug 11 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1971-W1089	2441175.33	1971 Aug 11 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	62	-	-
1971-Y247	2441175.44	1971 Aug 11 2230:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W1090	2441175.45	1971 Aug 11 2251:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1091	2441175.58	1971 Aug 12 0154:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W1092	2441176.12	1971 Aug 12 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W1093	2441176.18	1971 Aug 12 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1094	2441176.39	1971 Aug 12 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1971-W1095	2441177.01	1971 Aug 13 1214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	58	-	-
1971-W1096	2441177.06	1971 Aug 13 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W1097	2441177.09	1971 Aug 13 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1098	2441177.09	1971 Aug 13 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W1099	2441177.10	1971 Aug 13 1418:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1100	2441177.12	1971 Aug 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1101	2441177.15	1971 Aug 13 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W1102	2441177.18	1971 Aug 13 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1971-W1103	2441177.19	1971 Aug 13 1630:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	62	-	-
1971-W1104	2441177.20	1971 Aug 13 1645:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1105	2441177.29	1971 Aug 13 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1971-W1106	2441177.56	1971 Aug 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1108	2441180.11	1971 Aug 16 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W1109	2441180.12	1971 Aug 16 1500:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	59	-	-
1971-W1110	2441180.12	1971 Aug 16 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1111	2441180.18	1971 Aug 16 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1112	2441180.20	1971 Aug 16 1645:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W1113	2441180.21	1971 Aug 16 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1971-W1114	2441180.25	1971 Aug 16 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1115	2441180.38	1971 Aug 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W1116	2441180.46	1971 Aug 16 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1971-W1117	2441180.56	1971 Aug 17 0131:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1118	2441181.20	1971 Aug 17 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1119	2441181.38	1971 Aug 17 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-A69	2441182.08	1971 Aug 18 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1971-W1120	2441182.08	1971 Aug 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	51	-	-
1971-W1121	2441182.08	1971 Aug 18 1401:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1971-W1122	2441182.10	1971 Aug 18 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1123	2441182.12	1971 Aug 18 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W1124	2441182.12	1971 Aug 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1125	2441182.17	1971 Aug 18 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-W1126	2441182.21	1971 Aug 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1127	2441182.33	1971 Aug 18 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1971-Y253	2441182.42	1971 Aug 18 2159:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1971-W1128	2441182.43	1971 Aug 18 2217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W1129	2441182.58	1971 Aug 19 0157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1130	2441183.16	1971 Aug 19 1554:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1131	2441183.40	1971 Aug 19 2132:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1132	2441183.96	1971 Aug 20 1102:00	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	62	-	-
1971-W1133	2441183.97	1971 Aug 20 1111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1134	2441184.06	1971 Aug 20 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W1135	2441184.08	1971 Aug 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1136	2441184.12	1971 Aug 20 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1971-W1137	2441184.12	1971 Aug 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1138	2441184.15	1971 Aug 20 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1971-W1139	2441184.15	1971 Aug 20 1533:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	66	-	-
1971-W1140	2441184.17	1971 Aug 20 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1971-W1141	2441184.21	1971 Aug 20 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1142	2441184.33	1971 Aug 20 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	65	-	-
1971-W1143	2441184.38	1971 Aug 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1144	2441184.57	1971 Aug 21 0141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W1145	2441187.08	1971 Aug 23 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1971-W1146	2441187.08	1971 Aug 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1148	2441187.12	1971 Aug 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1149	2441187.17	1971 Aug 23 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W1150	2441187.21	1971 Aug 23 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	54	-	-
1971-W1151	2441187.25	1971 Aug 23 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1152	2441187.30	1971 Aug 23 1912:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	57	-	-
1971-W1153	2441187.35	1971 Aug 23 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	60	-	-
1971-W1154	2441187.40	1971 Aug 23 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W1155	2441187.56	1971 Aug 24 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1156	2441188.21	1971 Aug 24 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1157	2441188.38	1971 Aug 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-Y258	2441188.97	1971 Aug 25 1115:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	90	-	-
1971-W1158	2441189.06	1971 Aug 25 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W1159	2441189.08	1971 Aug 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1971-W1160	2441189.12	1971 Aug 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1162	2441189.19	1971 Aug 25 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W1163	2441189.24	1971 Aug 25 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1971-Y260	2441189.25	1971 Aug 25 1802:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1971-W1164	2441189.30	1971 Aug 25 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1971-W1165	2441189.31	1971 Aug 25 1921:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1166	2441189.33	1971 Aug 25 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	58	-	-
1971-W1167	2441189.40	1971 Aug 25 2142:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1168	2441190.23	1971 Aug 26 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1169	2441190.42	1971 Aug 26 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W1170	2441191.06	1971 Aug 27 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1171	2441191.08	1971 Aug 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1173	2441191.12	1971 Aug 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1174	2441191.21	1971 Aug 27 1700:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	59	-	-
1971-W1175	2441191.23	1971 Aug 27 1726:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	66	-	-
1971-W1176	2441191.25	1971 Aug 27 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1177	2441191.30	1971 Aug 27 1910:59	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	64	-	-
1971-W1178	2441191.38	1971 Aug 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W1179	2441191.44	1971 Aug 27 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	59	-	-
1971-W1180	2441194.05	1971 Aug 30 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W1181	2441194.08	1971 Aug 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-A71	2441194.13	1971 Aug 30 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	46	-	-
1971-W1183	2441194.17	1971 Aug 30 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1184	2441194.19	1971 Aug 30 1634:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-A72	2441194.25	1971 Aug 30 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	47	-	-
1971-W1185	2441194.33	1971 Aug 30 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLY	-	-	-	54	-	-
1971-W1186	2441194.38	1971 Aug 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1188	2441194.56	1971 Aug 31 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1189	2441195.09	1971 Aug 31 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1191	2441195.31	1971 Aug 31 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1192	2441195.43	1971 Aug 31 2225:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1193	2441195.76	1971 Sep 1 0614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-Y265	2441195.92	1971 Sep 1 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	94	-	-
1971-W1194	2441196.01	1971 Sep 1 1211:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1971-W1195	2441196.04	1971 Sep 1 1259:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W1196	2441196.08	1971 Sep 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W1197	2441196.09	1971 Sep 1 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1198	2441196.11	1971 Sep 1 1445:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1971-W1199	2441196.11	1971 Sep 1 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1201	2441196.13	1971 Sep 1 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1202	2441196.14	1971 Sep 1 1520:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	71	-	-
1971-W1203	2441196.17	1971 Sep 1 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W1204	2441196.17	1971 Sep 1 1609:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	65	-	-
1971-W1205	2441196.17	1971 Sep 1 1609:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1971-W1206	2441196.32	1971 Sep 1 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W1207	2441196.43	1971 Sep 1 2222:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W1208	2441196.56	1971 Sep 2 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1209	2441197.17	1971 Sep 2 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W1210	2441197.42	1971 Sep 2 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1211	2441198.06	1971 Sep 3 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1971-W1212	2441198.08	1971 Sep 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1213	2441198.10	1971 Sep 3 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	69	-	-
1971-W1214	2441198.20	1971 Sep 3 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1971-W1215	2441198.38	1971 Sep 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1216	2441198.57	1971 Sep 4 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W1217	2441202.21	1971 Sep 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1971-W1218	2441202.29	1971 Sep 7 1856:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1971-A74	2441202.29	1971 Sep 7 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	GRLC	-	-	-	41	-	-
1971-W1219	2441202.29	1971 Sep 7 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	64	-	-
1971-W1220	2441202.38	1971 Sep 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1221	2441202.44	1971 Sep 7 2226:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-Y270	2441202.92	1971 Sep 8 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W1223	2441203.06	1971 Sep 8 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1224	2441203.08	1971 Sep 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1225	2441203.08	1971 Sep 8 1402:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W1226	2441203.14	1971 Sep 8 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1227	2441203.20	1971 Sep 8 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1971-W1228	2441203.21	1971 Sep 8 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-W1229	2441203.32	1971 Sep 8 1941:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1230	2441203.38	1971 Sep 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1231	2441203.59	1971 Sep 9 0209:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-W1232	2441204.21	1971 Sep 9 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1233	2441204.38	1971 Sep 9 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1234	2441205.08	1971 Sep 10 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1235	2441205.08	1971 Sep 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W1236	2441205.10	1971 Sep 10 1420:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1971-W1238	2441205.11	1971 Sep 10 1442:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1971-W1239	2441205.12	1971 Sep 10 1452:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1240	2441205.21	1971 Sep 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	53	-	-
1971-W1241	2441205.38	1971 Sep 10 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1242	2441205.57	1971 Sep 11 0136:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1243	2441208.08	1971 Sep 13 1352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-A76	2441208.08	1971 Sep 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	49	-	-
1971-W1245	2441208.21	1971 Sep 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1971-W1246	2441208.30	1971 Sep 13 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1247	2441208.38	1971 Sep 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W1248	2441208.61	1971 Sep 14 0244:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1249	2441209.38	1971 Sep 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1251	2441210.06	1971 Sep 15 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W1252	2441210.08	1971 Sep 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1971-W1254	2441210.12	1971 Sep 15 1447:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1971-W1255	2441210.17	1971 Sep 15 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1256	2441210.17	1971 Sep 15 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1257	2441210.23	1971 Sep 15 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W1258	2441210.38	1971 Sep 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W1259	2441210.56	1971 Sep 16 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1260	2441211.42	1971 Sep 16 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1261	2441211.52	1971 Sep 17 0033:59	Rocketsonde	-	-	Chaff	-	-	-	GRLC	-	-	-	62	-	-
1971-W1262	2441211.75	1971 Sep 17 0553:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W1263	2441212.06	1971 Sep 17 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1264	2441212.08	1971 Sep 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1971-W1265	2441212.09	1971 Sep 17 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1971-W1266	2441212.10	1971 Sep 17 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1971-W1268	2441212.14	1971 Sep 17 1527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1269	2441212.19	1971 Sep 17 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1270	2441212.23	1971 Sep 17 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1971-W1272	2441212.56	1971 Sep 18 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1273	2441215.06	1971 Sep 20 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1274	2441215.08	1971 Sep 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1971-W1276	2441215.16	1971 Sep 20 1555:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1277	2441215.23	1971 Sep 20 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W1278	2441215.26	1971 Sep 20 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1279	2441215.38	1971 Sep 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1280	2441215.57	1971 Sep 21 0133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1281	2441216.12	1971 Sep 21 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1282	2441216.15	1971 Sep 21 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W1283	2441216.39	1971 Sep 21 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y282	2441216.92	1971 Sep 22 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W1284	2441217.06	1971 Sep 22 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1285	2441217.08	1971 Sep 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1287	2441217.13	1971 Sep 22 1510:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-Y284	2441217.15	1971 Sep 22 1530:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-W1288	2441217.20	1971 Sep 22 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1289	2441217.23	1971 Sep 22 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W1290	2441217.23	1971 Sep 22 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W1291	2441217.25	1971 Sep 22 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	59	-	-
1971-W1292	2441217.30	1971 Sep 22 1918:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1293	2441217.38	1971 Sep 22 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W1294	2441217.56	1971 Sep 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W1295	2441218.11	1971 Sep 23 1445:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	50	-	-
1971-W1296	2441218.15	1971 Sep 23 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W1297	2441218.38	1971 Sep 23 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W1299	2441219.04	1971 Sep 24 1259:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1971-W1300	2441219.06	1971 Sep 24 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W1301	2441219.08	1971 Sep 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W1303	2441219.21	1971 Sep 24 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	53	-	-
1971-W1304	2441219.38	1971 Sep 24 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1305	2441219.56	1971 Sep 25 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1971-W1306	2441220.19	1971 Sep 25 1640:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1971-W1308	2441222.06	1971 Sep 27 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W1309	2441222.21	1971 Sep 27 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1310	2441222.21	1971 Sep 27 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1311	2441222.30	1971 Sep 27 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W1312	2441222.38	1971 Sep 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1313	2441222.60	1971 Sep 28 0217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1314	2441223.19	1971 Sep 28 1630:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	51	-	-
1971-W1315	2441223.38	1971 Sep 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1318	2441224.21	1971 Sep 29 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1971-W1319	2441224.24	1971 Sep 29 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W1320	2441224.32	1971 Sep 29 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1321	2441224.38	1971 Sep 29 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1322	2441224.56	1971 Sep 30 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-A84	2441225.17	1971 Sep 30 1602:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	46	-	-
1971-W1323	2441225.35	1971 Sep 30 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W1324	2441225.39	1971 Sep 30 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1325	2441226.08	1971 Oct 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1327	2441226.13	1971 Oct 1 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1328	2441226.21	1971 Oct 1 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1971-W1329	2441226.23	1971 Oct 1 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1971-W1330	2441226.43	1971 Oct 1 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1331	2441229.06	1971 Oct 4 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1332	2441229.08	1971 Oct 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1334	2441229.16	1971 Oct 4 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1335	2441229.21	1971 Oct 4 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W1336	2441229.23	1971 Oct 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-W1337	2441229.30	1971 Oct 4 1918:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W1338	2441229.38	1971 Oct 4 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1339	2441230.38	1971 Oct 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1340	2441230.43	1971 Oct 5 2217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-Y300	2441230.96	1971 Oct 6 1100:00	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	85	-	-
1971-W1341	2441231.08	1971 Oct 6 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1971-W1342	2441231.08	1971 Oct 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1344	2441231.21	1971 Oct 6 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W1345	2441231.23	1971 Oct 6 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1971-W1346	2441231.35	1971 Oct 6 2027:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W1347	2441231.41	1971 Oct 6 2156:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1348	2441231.56	1971 Oct 7 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1971-W1350	2441232.13	1971 Oct 7 1513:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1351	2441232.15	1971 Oct 7 1529:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1352	2441232.21	1971 Oct 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W1353	2441232.22	1971 Oct 7 1719:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	62	-	-
1971-W1354	2441232.25	1971 Oct 7 1807:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	67	-	-
1971-W1355	2441232.26	1971 Oct 7 1818:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	66	-	-
1971-A86	2441232.27	1971 Oct 7 1832:00	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	49	-	-
1971-W1356	2441232.30	1971 Oct 7 1907:00	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	67	-	-
1971-W1357	2441232.32	1971 Oct 7 1934:59	Rocketsonde	-	-	Starute	-	-	-	WI	-	-	-	67	-	-
1971-W1358	2441232.35	1971 Oct 7 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W1359	2441233.07	1971 Oct 8 1336:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1971-W1360	2441233.08	1971 Oct 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1361	2441233.12	1971 Oct 8 1500:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	52	-	-
1971-W1363	2441233.34	1971 Oct 8 2009:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1364	2441233.56	1971 Oct 9 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1971-W1365	2441237.21	1971 Oct 12 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1366	2441237.30	1971 Oct 12 1910:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1367	2441237.34	1971 Oct 12 2003:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1368	2441237.43	1971 Oct 12 2214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1369	2441238.08	1971 Oct 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1371	2441238.16	1971 Oct 13 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1372	2441238.21	1971 Oct 13 1704:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W1373	2441238.24	1971 Oct 13 1747:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1971-W1375	2441238.25	1971 Oct 13 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W1376	2441238.29	1971 Oct 13 1856:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1971-W1378	2441238.36	1971 Oct 13 2034:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1379	2441238.37	1971 Oct 13 2054:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W1380	2441238.56	1971 Oct 14 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1971-W1382	2441239.38	1971 Oct 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1971-W1383	2441239.44	1971 Oct 14 2237:59	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	64	-	-
1971-W1384	2441239.50	1971 Oct 15 0004:59	Rocketsonde	-	-	Starute	-	-	-	CC	LC43	-	-	65	-	-
1971-W1385	2441240.08	1971 Oct 15 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1971-W1386	2441240.08	1971 Oct 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1387	2441240.10	1971 Oct 15 1426:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W1389	2441240.27	1971 Oct 15 1830:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1971-W1390	2441240.58	1971 Oct 16 0200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1971-W1391	2441243.06	1971 Oct 18 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W1392	2441243.08	1971 Oct 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1394	2441243.27	1971 Oct 18 1822:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1971-W1395	2441243.38	1971 Oct 18 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1396	2441243.57	1971 Oct 19 0141:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-A87	2441244.13	1971 Oct 19 1500:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	43	-	-
1971-W1397	2441244.17	1971 Oct 19 1558:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1398	2441244.38	1971 Oct 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-Y318	2441244.93	1971 Oct 20 1014:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	85	-	-
1971-W1399	2441245.06	1971 Oct 20 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1971-W1400	2441245.08	1971 Oct 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W1403	2441245.23	1971 Oct 20 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1971-W1404	2441245.32	1971 Oct 20 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1405	2441245.34	1971 Oct 20 2006:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	57	-	-
1971-W1406	2441245.40	1971 Oct 20 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1407	2441245.56	1971 Oct 21 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1971-W1408	2441246.17	1971 Oct 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1409	2441246.38	1971 Oct 21 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W1410	2441247.08	1971 Oct 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W1411	2441247.09	1971 Oct 22 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1971-W1413	2441247.23	1971 Oct 22 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1971-W1414	2441247.23	1971 Oct 22 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1415	2441247.40	1971 Oct 22 2132:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1416	2441247.42	1971 Oct 22 2203:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	55	-	-
1971-W1417	2441247.56	1971 Oct 23 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1971-W1419	2441251.17	1971 Oct 26 1607:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1420	2441251.30	1971 Oct 26 1912:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W1421	2441251.31	1971 Oct 26 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1971-W1422	2441251.38	1971 Oct 26 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1423	2441252.06	1971 Oct 27 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	54	-	-
1971-W1424	2441252.07	1971 Oct 27 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1971-W1425	2441252.08	1971 Oct 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1426	2441252.09	1971 Oct 27 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W1429	2441252.17	1971 Oct 27 1604:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1430	2441252.19	1971 Oct 27 1629:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1432	2441252.22	1971 Oct 27 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1971-W1433	2441252.38	1971 Oct 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1434	2441252.57	1971 Oct 28 0142:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1971-Y325	2441252.85	1971 Oct 28 0826:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1971-W1435	2441253.21	1971 Oct 28 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1436	2441253.38	1971 Oct 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-A90	2441254.06	1971 Oct 29 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	48	-	-
1971-W1437	2441254.08	1971 Oct 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1439	2441254.21	1971 Oct 29 1702:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1440	2441254.23	1971 Oct 29 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W1441	2441254.26	1971 Oct 29 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1971-W1442	2441254.28	1971 Oct 29 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1443	2441257.08	1971 Nov 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1444	2441257.12	1971 Nov 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1971-W1446	2441257.18	1971 Nov 1 1619:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1971-W1447	2441257.29	1971 Nov 1 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1448	2441257.38	1971 Nov 1 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-Y328	2441258.95	1971 Nov 3 1054:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	85	-	-
1971-W1452	2441259.08	1971 Nov 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1453	2441259.10	1971 Nov 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-Y330	2441259.19	1971 Nov 3 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-W1456	2441259.22	1971 Nov 3 1720:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1971-W1457	2441259.25	1971 Nov 3 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	60	-	-
1971-W1458	2441259.29	1971 Nov 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1461	2441260.13	1971 Nov 4 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1971-W1462	2441260.15	1971 Nov 4 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W1464	2441260.24	1971 Nov 4 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W1465	2441260.28	1971 Nov 4 1836:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1466	2441261.10	1971 Nov 5 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1971-W1467	2441261.12	1971 Nov 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W1468	2441261.18	1971 Nov 5 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1971-W1469	2441261.23	1971 Nov 5 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1971-W1470	2441261.31	1971 Nov 5 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1971-W1471	2441264.08	1971 Nov 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1971-W1472	2441264.10	1971 Nov 8 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W1473	2441264.12	1971 Nov 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1971-W1475	2441264.23	1971 Nov 8 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W1476	2441264.29	1971 Nov 8 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1477	2441264.31	1971 Nov 8 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1478	2441264.33	1971 Nov 8 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1479	2441264.38	1971 Nov 8 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1480	2441265.05	1971 Nov 9 1307:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1971-Y331	2441265.17	1971 Nov 9 1609:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W1481	2441265.19	1971 Nov 9 1640:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	59	-	-
1971-W1482	2441265.35	1971 Nov 9 2019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1483	2441266.10	1971 Nov 10 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W1484	2441266.12	1971 Nov 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W1485	2441266.12	1971 Nov 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1971-W1487	2441266.24	1971 Nov 10 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1971-W1488	2441266.26	1971 Nov 10 1814:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	63	-	-
1971-W1489	2441266.35	1971 Nov 10 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W1490	2441266.42	1971 Nov 10 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1491	2441267.38	1971 Nov 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-A96	2441267.48	1971 Nov 11 2330:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	39	-	-
1971-W1492	2441268.08	1971 Nov 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1493	2441268.13	1971 Nov 12 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1971-W1494	2441268.15	1971 Nov 12 1530:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	67	-	-
1971-W1495	2441268.23	1971 Nov 12 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1971-W1497	2441268.27	1971 Nov 12 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W1498	2441268.29	1971 Nov 12 1859:59	Rocketsonde	-	-	Density gauge	-	-	-	WS	-	-	-	59	-	-
1971-W1499	2441271.11	1971 Nov 15 1440:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	65	-	-
1971-W1501	2441271.19	1971 Nov 15 1630:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1971-W1502	2441271.25	1971 Nov 15 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	53	-	-
1971-W1503	2441271.25	1971 Nov 15 1800:59	Rocketsonde	-	-	Density gauge	-	-	-	PRIM	-	-	-	62	-	-
1971-W1504	2441271.28	1971 Nov 15 1840:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	55	-	-
1971-W1505	2441271.29	1971 Nov 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1506	2441271.34	1971 Nov 15 2003:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W1507	2441271.42	1971 Nov 15 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y335	2441272.10	1971 Nov 16 1430:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1971-W1509	2441272.20	1971 Nov 16 1644:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	53	-	-
1971-W1510	2441272.31	1971 Nov 16 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1511	2441272.38	1971 Nov 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y338	2441272.92	1971 Nov 17 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	91	-	-
1971-W1512	2441273.08	1971 Nov 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-A98	2441273.11	1971 Nov 17 1441:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	44	-	-
1971-W1514	2441273.12	1971 Nov 17 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	62	-	-
1971-W1515	2441273.12	1971 Nov 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W1517	2441273.21	1971 Nov 17 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1971-A99	2441273.25	1971 Nov 17 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	46	-	-
1971-W1518	2441273.35	1971 Nov 17 2023:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1971-W1519	2441273.36	1971 Nov 17 2038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1520	2441273.38	1971 Nov 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-A100	2441274.17	1971 Nov 18 1603:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	36	-	-
1971-Y342	2441274.20	1971 Nov 18 1654:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-
1971-W1522	2441274.23	1971 Nov 18 1730:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	67	-	-
1971-W1523	2441274.23	1971 Nov 18 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1524	2441274.25	1971 Nov 18 1804:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1971-W1525	2441274.34	1971 Nov 18 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1526	2441275.08	1971 Nov 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W1527	2441275.10	1971 Nov 19 1430:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	70	-	-
1971-W1528	2441275.10	1971 Nov 19 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1971-W1529	2441275.12	1971 Nov 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1971-W1530	2441275.12	1971 Nov 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1971-W1532	2441275.38	1971 Nov 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1971-W1533	2441275.46	1971 Nov 19 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1971-W1534	2441278.08	1971 Nov 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W1536	2441278.17	1971 Nov 22 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-W1537	2441278.17	1971 Nov 22 1602:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1538	2441278.32	1971 Nov 22 1946:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-W1539	2441278.38	1971 Nov 22 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W1540	2441278.42	1971 Nov 22 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1541	2441279.16	1971 Nov 23 1556:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1542	2441280.08	1971 Nov 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1543	2441280.12	1971 Nov 24 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	63	-	-
1971-W1544	2441280.12	1971 Nov 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1971-W1545	2441280.13	1971 Nov 24 1507:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1971-W1547	2441280.19	1971 Nov 24 1632:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1971-W1548	2441280.22	1971 Nov 24 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1549	2441280.31	1971 Nov 24 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1971-W1550	2441280.34	1971 Nov 24 2004:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	56	-	-
1971-W1551	2441280.37	1971 Nov 24 2055:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	51	-	-
1971-W1552	2441280.48	1971 Nov 24 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W1554	2441282.08	1971 Nov 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1971-W1555	2441282.08	1971 Nov 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1556	2441282.11	1971 Nov 26 1432:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	64	-	-
1971-W1557	2441282.12	1971 Nov 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W1559	2441282.19	1971 Nov 26 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1971-W1560	2441282.29	1971 Nov 26 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1971-W1561	2441285.08	1971 Nov 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1971-W1562	2441285.12	1971 Nov 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-W1563	2441285.14	1971 Nov 29 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1971-W1565	2441285.22	1971 Nov 29 1718:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W1566	2441285.25	1971 Nov 29 1802:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1971-W1567	2441285.31	1971 Nov 29 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-W1568	2441285.46	1971 Nov 29 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1971-W1569	2441285.47	1971 Nov 29 2313:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1571	2441286.19	1971 Nov 30 1630:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	74	-	-
1971-Y348	2441286.20	1971 Nov 30 1642:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1971-W1572	2441286.22	1971 Nov 30 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1573	2441286.28	1971 Nov 30 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1574	2441286.38	1971 Nov 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-Y351	2441286.92	1971 Dec 1 0959:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	85	-	-
1971-W1575	2441287.08	1971 Dec 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1971-W1576	2441287.10	1971 Dec 1 1422:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	66	-	-
1971-A101	2441287.11	1971 Dec 1 1437:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	46	-	-
1971-W1577	2441287.12	1971 Dec 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1578	2441287.12	1971 Dec 1 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1971-A102	2441287.14	1971 Dec 1 1526:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1971-Y353	2441287.23	1971 Dec 1 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-A103	2441287.27	1971 Dec 1 1830:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1971-W1580	2441287.33	1971 Dec 1 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1581	2441287.38	1971 Dec 1 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	70	-	-
1971-W1582	2441287.38	1971 Dec 1 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1971-W1583	2441287.40	1971 Dec 1 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1585	2441288.23	1971 Dec 2 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-W1586	2441288.38	1971 Dec 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-A104	2441289.12	1971 Dec 3 1500:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	45	-	-
1971-W1587	2441289.12	1971 Dec 3 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1971-W1588	2441289.13	1971 Dec 3 1506:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1971-W1590	2441289.22	1971 Dec 3 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1591	2441289.38	1971 Dec 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-W1592	2441289.39	1971 Dec 3 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1971-W1593	2441292.12	1971 Dec 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1595	2441292.21	1971 Dec 6 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W1596	2441292.30	1971 Dec 6 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W1597	2441292.31	1971 Dec 6 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1971-A107	2441293.35	1971 Dec 7 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	45	-	-
1971-W1599	2441293.38	1971 Dec 7 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1600	2441294.08	1971 Dec 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W1601	2441294.10	1971 Dec 8 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	50	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W1602	2441294.12	1971 Dec 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1971-W1604	2441294.23	1971 Dec 8 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	57	-	-
1971-W1605	2441294.23	1971 Dec 8 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W1606	2441294.33	1971 Dec 8 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1971-W1608	2441294.40	1971 Dec 8 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1609	2441295.12	1971 Dec 9 1500:00	Rocketsonde	-	-	Chaff	-	-	-	WS	-	-	-	78	-	-
1971-W1610	2441295.19	1971 Dec 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1971-W1611	2441295.21	1971 Dec 9 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1971-W1613	2441296.08	1971 Dec 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1615	2441296.10	1971 Dec 10 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1971-W1616	2441296.11	1971 Dec 10 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1971-W1617	2441296.12	1971 Dec 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-W1618	2441296.13	1971 Dec 10 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1971-W1620	2441296.17	1971 Dec 10 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1971-W1621	2441296.18	1971 Dec 10 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1624	2441299.08	1971 Dec 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1971-W1625	2441299.12	1971 Dec 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1971-A109	2441299.16	1971 Dec 13 1545:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1971-W1627	2441299.21	1971 Dec 13 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1628	2441299.24	1971 Dec 13 1742:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1971-W1629	2441299.27	1971 Dec 13 1835:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	58	-	-
1971-W1630	2441299.33	1971 Dec 13 1956:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W1631	2441300.27	1971 Dec 14 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1971-W1632	2441300.42	1971 Dec 14 2200:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	63	-	-
1971-W1633	2441300.44	1971 Dec 14 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1971-Y362	2441300.96	1971 Dec 15 1104:59	Rocketsonde	-	-	Met Sphere	-	-	-	ASC	-	-	-	92	-	-
1971-W1634	2441301.08	1971 Dec 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1971-W1635	2441301.10	1971 Dec 15 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W1636	2441301.14	1971 Dec 15 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1971-W1638	2441301.19	1971 Dec 15 1631:59	Rocketsonde	-	-	Met Para	-	-	-	PM	-	-	-	60	-	-
1971-Y365	2441301.19	1971 Dec 15 1633:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	84	-	-
1971-W1639	2441301.21	1971 Dec 15 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	57	-	-
1971-W1640	2441301.21	1971 Dec 15 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1971-Y366	2441301.23	1971 Dec 15 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-Y367	2441301.27	1971 Dec 15 1830:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	86	-	-
1971-W1641	2441301.38	1971 Dec 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1643	2441302.11	1971 Dec 16 1441:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	78	-	-
1971-W1645	2441302.17	1971 Dec 16 1608:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1971-W1646	2441302.17	1971 Dec 16 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1971-A110	2441302.32	1971 Dec 16 1935:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	44	-	-
1971-W1647	2441302.43	1971 Dec 16 2215:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1971-W1648	2441303.08	1971 Dec 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1971-W1649	2441303.14	1971 Dec 17 1518:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1971-W1651	2441303.18	1971 Dec 17 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1971-W1652	2441303.19	1971 Dec 17 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1971-W1653	2441303.47	1971 Dec 17 2310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1654	2441306.10	1971 Dec 20 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1971-W1655	2441306.12	1971 Dec 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1971-W1657	2441306.20	1971 Dec 20 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1971-W1658	2441306.20	1971 Dec 20 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1971-W1659	2441306.38	1971 Dec 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1971-W1661	2441307.19	1971 Dec 21 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1971-W1662	2441307.37	1971 Dec 21 2058:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1664	2441308.10	1971 Dec 22 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1665	2441308.12	1971 Dec 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-W1667	2441308.19	1971 Dec 22 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1971-W1668	2441308.37	1971 Dec 22 2055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1671	2441309.38	1971 Dec 23 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1971-W1673	2441313.10	1971 Dec 27 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1971-W1674	2441313.38	1971 Dec 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1971-W1675	2441314.12	1971 Dec 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1971-W1677	2441314.31	1971 Dec 28 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1971-W1678	2441314.45	1971 Dec 28 2241:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1679	2441315.10	1971 Dec 29 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1971-W1680	2441315.13	1971 Dec 29 1500:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1971-Y378	2441315.20	1971 Dec 29 1641:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1971-W1682	2441315.26	1971 Dec 29 1819:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-Y379	2441315.30	1971 Dec 29 1904:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	82	-	-
1971-W1684	2441315.40	1971 Dec 29 2137:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	73	-	-
1971-W1685	2441315.42	1971 Dec 29 2207:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1971-W1686	2441316.12	1971 Dec 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1971-W1688	2441316.25	1971 Dec 30 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1971-W1690	2441316.38	1971 Dec 30 2106:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W05	2441320.11	1972 Jan 3 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1972-W983	2441530.09	1972 Jul 31 1413:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W984	2441530.25	1972 Jul 31 1800:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	56	-	-
1972-W985	2441530.26	1972 Jul 31 1811:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W986	2441530.47	1972 Jul 31 2314:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W987	2441532.08	1972 Aug 2 1352:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1972-W988	2441532.08	1972 Aug 2 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W989	2441532.10	1972 Aug 2 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W991	2441532.11	1972 Aug 2 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W992	2441532.12	1972 Aug 2 1448:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-W993	2441532.12	1972 Aug 2 1449:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	60	-	-
1972-Y183	2441532.17	1972 Aug 2 1607:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1972-W994	2441532.21	1972 Aug 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W995	2441532.27	1972 Aug 2 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W996	2441532.37	1972 Aug 2 2046:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W997	2441532.41	1972 Aug 2 2153:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W998	2441532.51	1972 Aug 3 0020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W999	2441534.08	1972 Aug 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1000	2441534.10	1972 Aug 4 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1972-W1001	2441534.12	1972 Aug 4 1457:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1002	2441534.15	1972 Aug 4 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1003	2441534.31	1972 Aug 4 1922:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W1004	2441534.42	1972 Aug 4 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1972-W1005	2441534.46	1972 Aug 4 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-W1006	2441537.08	1972 Aug 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1007	2441537.12	1972 Aug 7 1455:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	THU	-	-	-	61	-	-
1972-W1008	2441537.19	1972 Aug 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1009	2441537.21	1972 Aug 7 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W1010	2441537.27	1972 Aug 7 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1972-W1011	2441537.39	1972 Aug 7 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1012	2441537.58	1972 Aug 8 0200:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	59	-	-
1972-W1013	2441538.17	1972 Aug 8 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1014	2441538.25	1972 Aug 8 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1015	2441539.08	1972 Aug 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1017	2441539.17	1972 Aug 9 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1972-W1018	2441539.25	1972 Aug 9 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1019	2441539.28	1972 Aug 9 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1020	2441539.31	1972 Aug 9 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1972-W1021	2441539.36	1972 Aug 9 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1022	2441539.50	1972 Aug 9 2356:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1023	2441541.07	1972 Aug 11 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W1024	2441541.09	1972 Aug 11 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W1026	2441541.22	1972 Aug 11 1717:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1027	2441541.23	1972 Aug 11 1731:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	58	-	-
1972-W1028	2441541.27	1972 Aug 11 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W1029	2441541.32	1972 Aug 11 1938:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1030	2441541.50	1972 Aug 12 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1972-W1031	2441541.69	1972 Aug 12 0440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	58	-	-
1972-W1032	2441541.91	1972 Aug 12 0956:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1033	2441542.46	1972 Aug 12 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1972-W1034	2441542.54	1972 Aug 13 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1035	2441542.69	1972 Aug 13 0430:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	52	-	-
1972-W1036	2441543.23	1972 Aug 13 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1037	2441544.08	1972 Aug 14 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1972-W1038	2441544.08	1972 Aug 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1972-W1039	2441544.15	1972 Aug 14 1538:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W1041	2441544.29	1972 Aug 14 1859:59	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	56	-	-
1972-W1042	2441544.30	1972 Aug 14 1907:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1043	2441544.30	1972 Aug 14 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1972-W1044	2441544.39	1972 Aug 14 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-A87	2441546.08	1972 Aug 16 1351:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	41	-	-
1972-W1045	2441546.09	1972 Aug 16 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W1046	2441546.10	1972 Aug 16 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W1047	2441546.11	1972 Aug 16 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-A88	2441546.13	1972 Aug 16 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	27	-	-
1972-W1049	2441546.13	1972 Aug 16 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	67	-	-
1972-W1051	2441546.21	1972 Aug 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1052	2441546.27	1972 Aug 16 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1972-W1054	2441546.38	1972 Aug 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1055	2441547.13	1972 Aug 17 1509:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1056	2441547.15	1972 Aug 17 1531:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	57	-	-
1972-W1057	2441548.07	1972 Aug 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1059	2441548.12	1972 Aug 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1972-W1060	2441548.14	1972 Aug 18 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	THU	-	-	-	61	-	-
1972-W1061	2441548.27	1972 Aug 18 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W1062	2441548.27	1972 Aug 18 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1063	2441548.30	1972 Aug 18 1904:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	55	-	-
1972-W1064	2441548.38	1972 Aug 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1065	2441551.08	1972 Aug 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1972-W1067	2441551.12	1972 Aug 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W1068	2441551.25	1972 Aug 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1972-W1069	2441551.30	1972 Aug 21 1907:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1070	2441551.38	1972 Aug 21 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1071	2441553.07	1972 Aug 23 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W1072	2441553.08	1972 Aug 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1074	2441553.14	1972 Aug 23 1519:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1075	2441553.14	1972 Aug 23 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1972-W1076	2441553.23	1972 Aug 23 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1077	2441553.27	1972 Aug 23 1823:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1078	2441553.27	1972 Aug 23 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1972-Y202	2441553.43	1972 Aug 23 2217:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	95	-	-
1972-W1079	2441553.45	1972 Aug 23 2241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W1080	2441555.09	1972 Aug 25 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1081	2441555.11	1972 Aug 25 1441:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1972-A92	2441555.12	1972 Aug 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	48	-	-
1972-W1083	2441555.18	1972 Aug 25 1623:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W1084	2441555.20	1972 Aug 25 1641:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1085	2441555.24	1972 Aug 25 1740:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	60	-	-
1972-W1086	2441555.27	1972 Aug 25 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1087	2441555.50	1972 Aug 25 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	58	-	-
1972-W1088	2441558.07	1972 Aug 28 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1089	2441558.08	1972 Aug 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1090	2441558.10	1972 Aug 28 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1972-W1092	2441558.12	1972 Aug 28 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W1093	2441558.15	1972 Aug 28 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-W1094	2441558.21	1972 Aug 28 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1972-W1095	2441558.27	1972 Aug 28 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1972-W1096	2441558.38	1972 Aug 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W1097	2441558.49	1972 Aug 28 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W1100	2441560.07	1972 Aug 30 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1101	2441560.09	1972 Aug 30 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1102	2441560.10	1972 Aug 30 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W1103	2441560.10	1972 Aug 30 1431:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1972-A93	2441560.12	1972 Aug 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	24	-	-
1972-W1105	2441560.12	1972 Aug 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1972-W1107	2441560.21	1972 Aug 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1108	2441560.28	1972 Aug 30 1843:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1109	2441560.28	1972 Aug 30 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1972-W1111	2441561.42	1972 Aug 31 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1112	2441562.07	1972 Sep 1 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1113	2441562.08	1972 Sep 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1114	2441562.11	1972 Sep 1 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W1115	2441562.12	1972 Sep 1 1447:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W1116	2441562.38	1972 Sep 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W1117	2441562.49	1972 Sep 1 2349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W1118	2441566.21	1972 Sep 5 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	66	-	-
1972-W1119	2441566.27	1972 Sep 5 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1972-W1120	2441567.07	1972 Sep 6 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1121	2441567.08	1972 Sep 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1972-W1122	2441567.10	1972 Sep 6 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-A95	2441567.12	1972 Sep 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	23	-	-
1972-W1123	2441567.12	1972 Sep 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-A96	2441567.18	1972 Sep 6 1615:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	48	-	-
1972-W1124	2441567.21	1972 Sep 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1972-W1125	2441567.27	1972 Sep 6 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1972-W1126	2441567.39	1972 Sep 6 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1127	2441567.50	1972 Sep 7 0002:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W1129	2441568.21	1972 Sep 7 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	77	-	-
1972-W1130	2441569.07	1972 Sep 8 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1131	2441569.08	1972 Sep 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W1132	2441569.09	1972 Sep 8 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1972-W1133	2441569.19	1972 Sep 8 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-W1134	2441569.21	1972 Sep 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1972-W1135	2441569.49	1972 Sep 8 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1972-W1136	2441570.22	1972 Sep 9 1720:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1972-W1137	2441571.21	1972 Sep 10 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	62	-	-
1972-W1138	2441572.08	1972 Sep 11 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W1139	2441572.08	1972 Sep 11 1358:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1972-W1140	2441572.08	1972 Sep 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-A97	2441572.12	1972 Sep 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	48	-	-
1972-W1141	2441572.21	1972 Sep 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1972-W1142	2441572.29	1972 Sep 11 1856:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1972-W1144	2441573.33	1972 Sep 12 2000:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	65	-	-
1972-W1145	2441574.07	1972 Sep 13 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1972-W1146	2441574.08	1972 Sep 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W1147	2441574.10	1972 Sep 13 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	58	-	-
1972-A98	2441574.11	1972 Sep 13 1445:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	48	-	-
1972-A99	2441574.12	1972 Sep 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	0	-	-
1972-W1148	2441574.12	1972 Sep 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1972-W1149	2441574.13	1972 Sep 13 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-Y217	2441574.19	1972 Sep 13 1631:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1972-W1150	2441574.21	1972 Sep 13 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	55	-	-
1972-W1151	2441574.25	1972 Sep 13 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1152	2441574.25	1972 Sep 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1972-W1153	2441574.27	1972 Sep 13 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1972-W1155	2441575.21	1972 Sep 14 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	64	-	-
1972-W1156	2441576.08	1972 Sep 15 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1157	2441576.08	1972 Sep 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	53	-	-
1972-W1158	2441576.11	1972 Sep 15 1440:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	53	-	-
1972-W1159	2441576.26	1972 Sep 15 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1972-W1160	2441576.49	1972 Sep 15 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W1162	2441577.21	1972 Sep 16 1700:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	52	-	-
1972-W1163	2441578.23	1972 Sep 17 1731:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	51	-	-
1972-W1164	2441579.07	1972 Sep 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1972-W1165	2441579.08	1972 Sep 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1166	2441579.12	1972 Sep 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1972-W1167	2441579.17	1972 Sep 18 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	73	-	-
1972-W1168	2441579.24	1972 Sep 18 1745:00	Rocketsonde	-	-	Met Para	-	-	-	WS	-	-	-	63	-	-
1972-W1169	2441579.26	1972 Sep 18 1819:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1972-W1170	2441579.27	1972 Sep 18 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W1171	2441579.38	1972 Sep 18 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1173	2441581.08	1972 Sep 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-A101	2441581.12	1972 Sep 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	23	-	-
1972-A102	2441581.12	1972 Sep 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	49	-	-
1972-Y226	2441581.15	1972 Sep 20 1533:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	82	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1174	2441581.16	1972 Sep 20 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1972-W1175	2441581.17	1972 Sep 20 1607:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1177	2441581.25	1972 Sep 20 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1972-W1178	2441581.29	1972 Sep 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1972-Y227	2441581.38	1972 Sep 20 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1972-W1179	2441581.40	1972 Sep 20 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1180	2441581.49	1972 Sep 20 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W1181	2441583.12	1972 Sep 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W1182	2441583.23	1972 Sep 22 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	75	-	-
1972-W1183	2441583.27	1972 Sep 22 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1972-W1184	2441583.49	1972 Sep 22 2346:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W1186	2441586.08	1972 Sep 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1972-W1187	2441586.12	1972 Sep 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W1188	2441586.15	1972 Sep 25 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W1189	2441586.15	1972 Sep 25 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1191	2441586.21	1972 Sep 25 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1972-W1192	2441586.26	1972 Sep 25 1808:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1972-W1193	2441586.27	1972 Sep 25 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1972-W1194	2441586.53	1972 Sep 26 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1972-W1195	2441587.07	1972 Sep 26 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1972-W1196	2441587.17	1972 Sep 26 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1972-W1197	2441588.07	1972 Sep 27 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1198	2441588.08	1972 Sep 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1200	2441588.10	1972 Sep 27 1425:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1972-W1201	2441588.11	1972 Sep 27 1434:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	58	-	-
1972-W1202	2441588.12	1972 Sep 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W1203	2441588.15	1972 Sep 27 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1972-W1205	2441588.25	1972 Sep 27 1753:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1206	2441588.27	1972 Sep 27 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1972-W1207	2441590.07	1972 Sep 29 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1208	2441590.08	1972 Sep 29 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1972-W1210	2441590.12	1972 Sep 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W1211	2441590.15	1972 Sep 29 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1972-W1212	2441590.22	1972 Sep 29 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1972-W1213	2441590.38	1972 Sep 29 2103:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W1214	2441593.07	1972 Oct 2 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1215	2441593.08	1972 Oct 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1216	2441593.09	1972 Oct 2 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1972-W1218	2441593.14	1972 Oct 2 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W1219	2441593.15	1972 Oct 2 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1972-W1220	2441593.16	1972 Oct 2 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	54	-	-
1972-W1221	2441593.21	1972 Oct 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1222	2441593.34	1972 Oct 2 2009:00	Rocketsonde	-	-	Starute	-	-	-	PM	-	-	-	59	-	-
1972-W1223	2441593.38	1972 Oct 2 2112:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1972-W1224	2441594.12	1972 Oct 3 1500:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	65	-	-
1972-W1225	2441594.17	1972 Oct 3 1559:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	65	-	-
1972-W1226	2441595.09	1972 Oct 4 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1227	2441595.10	1972 Oct 4 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1972-W1228	2441595.10	1972 Oct 4 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W1229	2441595.12	1972 Oct 4 1449:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1230	2441595.14	1972 Oct 4 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1972-W1231	2441595.15	1972 Oct 4 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-W1232	2441595.17	1972 Oct 4 1559:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1972-Y236	2441595.18	1972 Oct 4 1614:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	80	-	-
1972-A103	2441595.23	1972 Oct 4 1725:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	45	-	-
1972-W1233	2441595.25	1972 Oct 4 1754:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1234	2441595.46	1972 Oct 4 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W1236	2441597.07	1972 Oct 6 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1237	2441597.08	1972 Oct 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1238	2441597.15	1972 Oct 6 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1972-W1239	2441597.21	1972 Oct 6 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1972-W1240	2441597.21	1972 Oct 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1241	2441597.25	1972 Oct 6 1800:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1242	2441597.42	1972 Oct 6 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1972-W1244	2441600.08	1972 Oct 9 1356:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	52	-	-
1972-W1245	2441600.08	1972 Oct 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1246	2441601.12	1972 Oct 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W1247	2441601.21	1972 Oct 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1249	2441602.07	1972 Oct 11 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1250	2441602.08	1972 Oct 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1251	2441602.12	1972 Oct 11 1500:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1972-W1252	2441602.12	1972 Oct 11 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1972-W1253	2441602.15	1972 Oct 11 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1972-W1254	2441602.16	1972 Oct 11 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-Y241	2441602.17	1972 Oct 11 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1972-W1256	2441602.18	1972 Oct 11 1625:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1257	2441602.28	1972 Oct 11 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W1259	2441602.39	1972 Oct 11 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1972-W1260	2441602.39	1972 Oct 11 2127:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W1261	2441604.07	1972 Oct 13 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1972-W1262	2441604.08	1972 Oct 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1263	2441604.09	1972 Oct 13 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1972-W1264	2441604.12	1972 Oct 13 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W1266	2441604.20	1972 Oct 13 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1267	2441604.27	1972 Oct 13 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W1269	2441607.21	1972 Oct 16 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1270	2441607.21	1972 Oct 16 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1271	2441607.34	1972 Oct 16 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1272	2441608.29	1972 Oct 17 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1273	2441608.42	1972 Oct 17 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1274	2441608.47	1972 Oct 17 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W1275	2441609.07	1972 Oct 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1276	2441609.08	1972 Oct 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1278	2441609.12	1972 Oct 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1972-Y246	2441609.17	1972 Oct 18 1603:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1972-W1279	2441609.21	1972 Oct 18 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1280	2441609.21	1972 Oct 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1281	2441609.27	1972 Oct 18 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-Y247	2441609.29	1972 Oct 18 1903:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1972-W1282	2441609.31	1972 Oct 18 1929:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1283	2441609.42	1972 Oct 18 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1284	2441609.49	1972 Oct 18 2338:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1285	2441610.09	1972 Oct 19 1407:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1286	2441610.22	1972 Oct 19 1715:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1287	2441611.07	1972 Oct 20 1334:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1972-W1288	2441611.07	1972 Oct 20 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-W1289	2441611.08	1972 Oct 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1290	2441611.09	1972 Oct 20 1408:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1292	2441611.12	1972 Oct 20 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1972-W1293	2441611.14	1972 Oct 20 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W1294	2441611.21	1972 Oct 20 1700:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WS	-	-	-	53	-	-
1972-Y248	2441611.38	1972 Oct 20 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W1295	2441611.40	1972 Oct 20 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W1297	2441615.12	1972 Oct 24 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W1298	2441615.21	1972 Oct 24 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1972-W1299	2441616.07	1972 Oct 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1300	2441616.08	1972 Oct 25 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	57	-	-
1972-W1301	2441616.12	1972 Oct 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1972-W1303	2441616.15	1972 Oct 25 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1972-W1304	2441616.21	1972 Oct 25 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1305	2441616.29	1972 Oct 25 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W1306	2441616.38	1972 Oct 25 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W1307	2441616.39	1972 Oct 25 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1308	2441616.42	1972 Oct 25 2210:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1309	2441616.47	1972 Oct 25 2322:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1972-W1310	2441617.11	1972 Oct 26 1433:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1972-W1311	2441617.30	1972 Oct 26 1912:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1312	2441617.42	1972 Oct 26 2206:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1313	2441617.47	1972 Oct 26 2312:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1314	2441617.52	1972 Oct 27 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	66	-	-
1972-W1315	2441617.65	1972 Oct 27 0330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1316	2441618.07	1972 Oct 27 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1317	2441618.10	1972 Oct 27 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1319	2441618.12	1972 Oct 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1972-W1320	2441618.25	1972 Oct 27 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1321	2441618.38	1972 Oct 27 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W1322	2441618.49	1972 Oct 27 2349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W1323	2441621.08	1972 Oct 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1324	2441621.14	1972 Oct 30 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1972-W1325	2441621.20	1972 Oct 30 1641:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1972-W1326	2441621.21	1972 Oct 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1972-W1327	2441621.29	1972 Oct 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1328	2441621.29	1972 Oct 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1329	2441621.38	1972 Oct 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1972-W1332	2441622.30	1972 Oct 31 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1333	2441622.41	1972 Oct 31 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1334	2441622.46	1972 Oct 31 2304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1336	2441622.83	1972 Nov 1 0752:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W1337	2441623.08	1972 Nov 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1338	2441623.09	1972 Nov 1 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1972-W1339	2441623.20	1972 Nov 1 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-W1340	2441623.27	1972 Nov 1 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W1341	2441623.29	1972 Nov 1 1852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1342	2441623.41	1972 Nov 1 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1343	2441623.46	1972 Nov 1 2304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-Y256	2441623.47	1972 Nov 1 2315:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W1344	2441623.49	1972 Nov 1 2352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W1345	2441623.50	1972 Nov 1 2354:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1348	2441625.08	1972 Nov 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1349	2441625.09	1972 Nov 3 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W1350	2441625.10	1972 Nov 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1972-W1351	2441625.14	1972 Nov 3 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1353	2441625.19	1972 Nov 3 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1972-W1354	2441625.26	1972 Nov 3 1819:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1355	2441625.33	1972 Nov 3 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1356	2441625.38	1972 Nov 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1357	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1972-W1358	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1972-W1359	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1361	2441628.20	1972 Nov 6 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1972-W1362	2441628.29	1972 Nov 6 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W1363	2441628.38	1972 Nov 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1364	2441628.38	1972 Nov 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1972-W1367	2441630.08	1972 Nov 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1368	2441630.09	1972 Nov 8 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1972-W1369	2441630.12	1972 Nov 8 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1972-W1372	2441630.20	1972 Nov 8 1641:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1972-W1373	2441630.21	1972 Nov 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1972-W1374	2441630.22	1972 Nov 8 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1375	2441630.30	1972 Nov 8 1918:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1972-W1376	2441630.40	1972 Nov 8 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W1377	2441630.46	1972 Nov 8 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1378	2441630.47	1972 Nov 8 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W1379	2441630.49	1972 Nov 8 2347:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-Y257	2441630.67	1972 Nov 9 0410:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1972-W1380	2441630.70	1972 Nov 9 0448:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W1382	2441631.29	1972 Nov 9 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1383	2441631.40	1972 Nov 9 2137:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1384	2441631.48	1972 Nov 9 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W1386	2441632.07	1972 Nov 10 1344:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1972-W1387	2441632.09	1972 Nov 10 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	54	-	-
1972-W1388	2441632.09	1972 Nov 10 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	69	-	-
1972-W1390	2441632.19	1972 Nov 10 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-W1392	2441632.28	1972 Nov 10 1844:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1972-W1393	2441632.31	1972 Nov 10 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1394	2441632.40	1972 Nov 10 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1395	2441632.42	1972 Nov 10 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1972-W1396	2441632.47	1972 Nov 10 2315:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1397	2441635.08	1972 Nov 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1398	2441635.09	1972 Nov 13 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1972-W1399	2441635.29	1972 Nov 13 1852:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1400	2441635.30	1972 Nov 13 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1401	2441635.42	1972 Nov 13 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W1403	2441637.08	1972 Nov 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W1404	2441637.09	1972 Nov 15 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1972-A110	2441637.12	1972 Nov 15 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	47	-	-
1972-W1406	2441637.20	1972 Nov 15 1648:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1972-Y265	2441637.21	1972 Nov 15 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1972-W1407	2441637.29	1972 Nov 15 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1408	2441637.35	1972 Nov 15 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W1409	2441637.39	1972 Nov 15 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1410	2441637.40	1972 Nov 15 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	50	-	-
1972-W1411	2441637.45	1972 Nov 15 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W1413	2441638.27	1972 Nov 16 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1414	2441638.40	1972 Nov 16 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1415	2441638.45	1972 Nov 16 2251:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1416	2441638.49	1972 Nov 16 2345:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1417	2441639.08	1972 Nov 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1418	2441639.10	1972 Nov 17 1417:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1972-W1420	2441639.19	1972 Nov 17 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1972-W1421	2441639.25	1972 Nov 17 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1422	2441639.29	1972 Nov 17 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1423	2441639.31	1972 Nov 17 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1972-Y266	2441639.33	1972 Nov 17 2001:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1972-W1424	2441639.39	1972 Nov 17 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1425	2441639.42	1972 Nov 17 2209:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-W1426	2441639.45	1972 Nov 17 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1972-W1427	2441642.08	1972 Nov 20 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1429	2441642.27	1972 Nov 20 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1430	2441642.28	1972 Nov 20 1843:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	65	-	-
1972-W1431	2441642.31	1972 Nov 20 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1432	2441642.36	1972 Nov 20 2038:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1433	2441642.38	1972 Nov 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1434	2441642.49	1972 Nov 20 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	56	-	-
1972-W1436	2441644.08	1972 Nov 22 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W1437	2441644.09	1972 Nov 22 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1438	2441644.12	1972 Nov 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1972-W1439	2441644.13	1972 Nov 22 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1441	2441644.19	1972 Nov 22 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1972-W1442	2441644.21	1972 Nov 22 1700:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	67	-	-
1972-Y271	2441644.21	1972 Nov 22 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1972-W1443	2441644.28	1972 Nov 22 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1444	2441644.29	1972 Nov 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W1445	2441644.41	1972 Nov 22 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1972-W1448	2441646.29	1972 Nov 24 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-A111	2441646.64	1972 Nov 25 0315:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	49	-	-
1972-W1449	2441649.08	1972 Nov 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-W1450	2441649.11	1972 Nov 27 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1972-W1451	2441649.19	1972 Nov 27 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1972-W1452	2441649.29	1972 Nov 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1453	2441649.31	1972 Nov 27 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W1454	2441649.34	1972 Nov 27 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1972-W1455	2441649.49	1972 Nov 27 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	54	-	-
1972-W1459	2441651.08	1972 Nov 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-A113	2441651.09	1972 Nov 29 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	43	-	-
1972-W1460	2441651.12	1972 Nov 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1972-W1461	2441651.15	1972 Nov 29 1542:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1462	2441651.19	1972 Nov 29 1638:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-Y280	2441651.21	1972 Nov 29 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1972-W1463	2441651.25	1972 Nov 29 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1464	2441651.27	1972 Nov 29 1830:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1972-W1467	2441653.10	1972 Dec 1 1419:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1972-W1468	2441653.19	1972 Dec 1 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1972-W1469	2441653.25	1972 Dec 1 1800:00	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	63	-	-
1972-W1470	2441653.26	1972 Dec 1 1809:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1471	2441653.29	1972 Dec 1 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-Y282	2441653.35	1972 Dec 1 2027:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1972-W1472	2441653.37	1972 Dec 1 2046:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1474	2441656.08	1972 Dec 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1972-W1475	2441656.08	1972 Dec 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1476	2441656.14	1972 Dec 4 1520:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W1477	2441656.19	1972 Dec 4 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1972-W1478	2441656.35	1972 Dec 4 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1479	2441656.49	1972 Dec 4 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	59	-	-
1972-W1481	2441657.04	1972 Dec 5 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1482	2441657.19	1972 Dec 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1483	2441657.23	1972 Dec 5 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1484	2441657.29	1972 Dec 5 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1487	2441658.19	1972 Dec 6 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1972-W1488	2441658.21	1972 Dec 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1972-W1489	2441658.25	1972 Dec 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1490	2441658.32	1972 Dec 6 1944:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	67	-	-
1972-W1491	2441658.33	1972 Dec 6 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W1492	2441658.49	1972 Dec 6 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1972-W1495	2441658.84	1972 Dec 7 0815:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1497	2441659.30	1972 Dec 7 1908:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1498	2441659.55	1972 Dec 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	61	-	-
1972-W1500	2441659.75	1972 Dec 8 0600:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	GRLC	-	-	-	56	-	-
1972-W1501	2441660.08	1972 Dec 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1972-W1502	2441660.09	1972 Dec 8 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1972-W1503	2441660.12	1972 Dec 8 1500:00	Rocketsonde	-	-	Chaff,AN/DMQ-9-	-	-	-	THU	-	-	-	61	-	-
1972-W1504	2441660.40	1972 Dec 8 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1972-W1509	2441663.08	1972 Dec 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1510	2441663.08	1972 Dec 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1972-W1511	2441663.10	1972 Dec 11 1425:00	Rocketsonde	-	-	Chaff,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1972-W1512	2441663.10	1972 Dec 11 1430:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W1513	2441663.22	1972 Dec 11 1717:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1514	2441663.29	1972 Dec 11 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1972-W1515	2441663.29	1972 Dec 11 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1972-W1516	2441663.49	1972 Dec 11 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1972-W1518	2441664.25	1972 Dec 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1972-W1519	2441664.51	1972 Dec 13 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1972-W1520	2441665.08	1972 Dec 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1972-W1521	2441665.12	1972 Dec 13 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1972-W1523	2441665.27	1972 Dec 13 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1972-W1524	2441665.29	1972 Dec 13 1856:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1525	2441665.31	1972 Dec 13 1932:59	Rocketsonde	-	-	Met Sphere	-	-	-	WS	-	-	-	59	-	-
1972-W1526	2441665.49	1972 Dec 13 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W1528	2441666.29	1972 Dec 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1972-W1529	2441666.35	1972 Dec 14 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W1531	2441667.17	1972 Dec 15 1559:59	Rocketsonde	-	-	Met Para,STS	-	-	-	WS	-	-	-	65	-	-
1972-W1532	2441667.19	1972 Dec 15 1629:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1533	2441667.25	1972 Dec 15 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1972-W1534	2441667.45	1972 Dec 15 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1535	2441667.49	1972 Dec 15 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W1536	2441670.08	1972 Dec 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	59	-	-
1972-W1537	2441670.10	1972 Dec 18 1419:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1972-W1539	2441670.17	1972 Dec 18 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W1540	2441670.23	1972 Dec 18 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1972-W1541	2441670.27	1972 Dec 18 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1542	2441670.44	1972 Dec 18 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1972-W1543	2441670.92	1972 Dec 19 0959:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	61	-	-
1972-W1544	2441671.14	1972 Dec 19 1517:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	56	-	-
1972-W1546	2441671.17	1972 Dec 19 1606:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-W1547	2441671.29	1972 Dec 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1548	2441671.37	1972 Dec 19 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1972-W1549	2441671.58	1972 Dec 20 0157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1972-W1550	2441672.10	1972 Dec 20 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1972-W1551	2441672.12	1972 Dec 20 1454:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1972-Y295	2441672.17	1972 Dec 20 1609:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1972-W1553	2441672.19	1972 Dec 20 1630:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1972-W1554	2441672.25	1972 Dec 20 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1972-W1555	2441672.31	1972 Dec 20 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1972-W1556	2441672.51	1972 Dec 21 0011:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W1558	2441673.21	1972 Dec 21 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-A119	2441673.38	1972 Dec 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	44	-	-
1972-W1560	2441674.29	1972 Dec 22 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1972-W1561	2441674.33	1972 Dec 22 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	51	-	-
1972-W1562	2441678.28	1972 Dec 26 1849:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1972-W1563	2441678.38	1972 Dec 26 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1972-W1565	2441679.18	1972 Dec 27 1624:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1972-Y302	2441679.27	1972 Dec 27 1822:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1972-W1566	2441679.28	1972 Dec 27 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1972-W1567	2441679.29	1972 Dec 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-W1568	2441679.40	1972 Dec 27 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1972-Y303	2441679.43	1972 Dec 27 2219:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1972-W1569	2441679.49	1972 Dec 27 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1972-W1571	2441681.10	1972 Dec 29 1424:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1972-W1573	2441681.27	1972 Dec 29 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1972-W1574	2441681.29	1972 Dec 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1972-W1575	2441681.49	1972 Dec 29 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1973-W949	2441891.14	1973 Jul 27 1515:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	65	-	-
1973-W950	2441891.16	1973 Jul 27 1545:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	WI	-	-	-	68	-	-
1973-W951	2441891.29	1973 Jul 27 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	69	-	-
1973-W952	2441892.03	1973 Jul 28 1244:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W953	2441894.10	1973 Jul 30 1420:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	50	-	-
1973-A39	2441894.14	1973 Jul 30 1524:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	38	-	-
1973-W954	2441894.19	1973 Jul 30 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1973-W955	2441894.23	1973 Jul 30 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W956	2441894.25	1973 Jul 30 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W957	2441894.31	1973 Jul 30 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W958	2441894.41	1973 Jul 30 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W963	2441895.31	1973 Jul 31 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W964	2441895.52	1973 Aug 1 0035:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1973-W965	2441896.07	1973 Aug 1 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W966	2441896.07	1973 Aug 1 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1973-W967	2441896.08	1973 Aug 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1973-W968	2441896.09	1973 Aug 1 1404:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1973-W969	2441896.10	1973 Aug 1 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W970	2441896.12	1973 Aug 1 1458:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	50	-	-
1973-Y318	2441896.17	1973 Aug 1 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-Y319	2441896.17	1973 Aug 1 1602:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1973-W972	2441896.19	1973 Aug 1 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-Y320	2441896.27	1973 Aug 1 1830:00	Rocketsonde	-	-	STS	-	-	-	WS	-	-	-	83	-	-
1973-W973	2441897.05	1973 Aug 2 1314:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	60	-	-
1973-W975	2441897.40	1973 Aug 2 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W976	2441897.83	1973 Aug 3 0752:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W977	2441898.07	1973 Aug 3 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W978	2441898.08	1973 Aug 3 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1973-W979	2441898.10	1973 Aug 3 1426:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W980	2441898.33	1973 Aug 3 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-Y321	2441898.38	1973 Aug 3 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1973-W981	2441898.40	1973 Aug 3 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W982	2441898.53	1973 Aug 4 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	70	-	-
1973-W983	2441901.07	1973 Aug 6 1342:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	53	-	-
1973-W984	2441901.14	1973 Aug 6 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1973-W985	2441901.19	1973 Aug 6 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W986	2441901.21	1973 Aug 6 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W987	2441901.25	1973 Aug 6 1807:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W988	2441901.26	1973 Aug 6 1820:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1973-W989	2441901.41	1973 Aug 6 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	54	-	-
1973-Y322	2441901.53	1973 Aug 7 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W990	2441903.07	1973 Aug 8 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W991	2441903.08	1973 Aug 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-Y326	2441903.14	1973 Aug 8 1526:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1973-W993	2441903.16	1973 Aug 8 1556:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1973-W994	2441903.19	1973 Aug 8 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-Y327	2441903.21	1973 Aug 8 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W995	2441903.21	1973 Aug 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1973-W996	2441903.30	1973 Aug 8 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W997	2441903.36	1973 Aug 8 2034:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1973-Y328	2441903.39	1973 Aug 8 2123:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W998	2441903.42	1973 Aug 8 2157:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W999	2441903.54	1973 Aug 9 0053:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-W1001	2441904.25	1973 Aug 9 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1002	2441904.31	1973 Aug 9 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W1003	2441904.97	1973 Aug 10 1122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1004	2441905.07	1973 Aug 10 1345:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1005	2441905.08	1973 Aug 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-W1006	2441905.14	1973 Aug 10 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W1007	2441905.17	1973 Aug 10 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1973-W1008	2441905.21	1973 Aug 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1009	2441905.31	1973 Aug 10 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W1010	2441905.53	1973 Aug 11 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1973-W1011	2441908.08	1973 Aug 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	71	-	-
1973-W1012	2441908.14	1973 Aug 13 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W1014	2441908.21	1973 Aug 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	73	-	-
1973-W1015	2441908.21	1973 Aug 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W1016	2441908.22	1973 Aug 13 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W1017	2441908.25	1973 Aug 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1018	2441908.31	1973 Aug 13 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1019	2441908.41	1973 Aug 13 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-Y331	2441908.53	1973 Aug 14 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1020	2441909.25	1973 Aug 14 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1973-W1021	2441909.31	1973 Aug 14 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1022	2441909.73	1973 Aug 15 0530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W1023	2441910.07	1973 Aug 15 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W1024	2441910.07	1973 Aug 15 1345:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	70	-	-
1973-W1025	2441910.08	1973 Aug 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1026	2441910.11	1973 Aug 15 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1028	2441910.15	1973 Aug 15 1538:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-W1029	2441910.19	1973 Aug 15 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1973-Y334	2441910.21	1973 Aug 15 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1973-W1030	2441910.29	1973 Aug 15 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-Y335	2441910.36	1973 Aug 15 2040:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1973-W1031	2441910.38	1973 Aug 15 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1032	2441910.38	1973 Aug 15 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1973-Y336	2441910.41	1973 Aug 15 2156:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	90	-	-
1973-W1033	2441910.44	1973 Aug 15 2227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W1034	2441910.50	1973 Aug 16 0004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-A41	2441911.05	1973 Aug 16 1307:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	45	-	-
1973-W1037	2441911.21	1973 Aug 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1038	2441911.25	1973 Aug 16 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-W1040	2441911.93	1973 Aug 17 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W1041	2441912.08	1973 Aug 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-W1042	2441912.08	1973 Aug 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	71	-	-
1973-A42	2441912.12	1973 Aug 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	0	-	-
1973-W1043	2441912.12	1973 Aug 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1973-W1044	2441912.17	1973 Aug 17 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1045	2441912.19	1973 Aug 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1973-W1046	2441914.92	1973 Aug 20 1009:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W1047	2441915.08	1973 Aug 20 1348:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-W1049	2441915.15	1973 Aug 20 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W1050	2441915.19	1973 Aug 20 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W1051	2441915.21	1973 Aug 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1052	2441915.53	1973 Aug 21 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-W1053	2441915.92	1973 Aug 21 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1054	2441916.25	1973 Aug 21 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1973-W1055	2441916.94	1973 Aug 22 1040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1056	2441917.08	1973 Aug 22 1354:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	52	-	-
1973-W1058	2441917.12	1973 Aug 22 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1973-W1059	2441917.15	1973 Aug 22 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W1060	2441917.21	1973 Aug 22 1703:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	68	-	-
1973-W1061	2441917.22	1973 Aug 22 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1062	2441917.25	1973 Aug 22 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W1063	2441917.51	1973 Aug 23 0010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	68	-	-
1973-W1064	2441917.60	1973 Aug 23 0230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1065	2441917.90	1973 Aug 23 0941:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W1066	2441918.04	1973 Aug 23 1259:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	52	-	-
1973-W1067	2441918.57	1973 Aug 24 0143:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1068	2441918.82	1973 Aug 24 0740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1069	2441918.92	1973 Aug 24 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-W1070	2441919.07	1973 Aug 24 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W1071	2441919.08	1973 Aug 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1973-W1072	2441919.10	1973 Aug 24 1427:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	67	-	-
1973-Y345	2441919.17	1973 Aug 24 1601:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	93	-	-
1973-W1074	2441919.18	1973 Aug 24 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W1075	2441919.34	1973 Aug 24 2006:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1076	2441919.35	1973 Aug 24 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1077	2441919.53	1973 Aug 25 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	64	-	-
1973-W1078	2441921.93	1973 Aug 27 1014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1079	2441922.07	1973 Aug 27 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1973-W1080	2441922.08	1973 Aug 27 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1082	2441922.15	1973 Aug 27 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1973-W1083	2441922.19	1973 Aug 27 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	50	-	-
1973-W1084	2441922.53	1973 Aug 28 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1973-W1085	2441922.81	1973 Aug 28 0730:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1086	2441922.88	1973 Aug 28 0900:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	69	-	-
1973-W1087	2441923.10	1973 Aug 28 1418:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	66	-	-
1973-W1088	2441923.10	1973 Aug 28 1430:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	64	-	-
1973-W1089	2441923.14	1973 Aug 28 1521:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1973-W1090	2441923.92	1973 Aug 29 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1091	2441923.93	1973 Aug 29 1013:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-Y352	2441923.96	1973 Aug 29 1056:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1092	2441924.07	1973 Aug 29 1344:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	61	-	-
1973-W1093	2441924.08	1973 Aug 29 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1973-W1094	2441924.08	1973 Aug 29 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	55	-	-
1973-W1095	2441924.11	1973 Aug 29 1437:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1973-W1096	2441924.11	1973 Aug 29 1445:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	58	-	-
1973-W1097	2441924.12	1973 Aug 29 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-Y355	2441924.17	1973 Aug 29 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1973-W1098	2441924.21	1973 Aug 29 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1973-W1100	2441924.29	1973 Aug 29 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1101	2441924.39	1973 Aug 29 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1102	2441924.50	1973 Aug 30 0004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1103	2441924.92	1973 Aug 30 0959:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1104	2441925.03	1973 Aug 30 1249:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1973-W1106	2441925.25	1973 Aug 30 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1973-W1107	2441925.25	1973 Aug 30 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1108	2441925.41	1973 Aug 30 2149:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1112	2441925.91	1973 Aug 31 0949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1113	2441926.07	1973 Aug 31 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W1114	2441926.08	1973 Aug 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	56	-	-
1973-A43	2441926.09	1973 Aug 31 1410:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	44	-	-
1973-Y361	2441926.18	1973 Aug 31 1618:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W1115	2441926.22	1973 Aug 31 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1116	2441926.33	1973 Aug 31 1958:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	79	-	-
1973-Y362	2441926.36	1973 Aug 31 2044:00	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	85	-	-
1973-Y363	2441926.38	1973 Aug 31 2113:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	85	-	-
1973-W1117	2441926.53	1973 Sep 1 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1118	2441930.13	1973 Sep 4 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W1119	2441930.25	1973 Sep 4 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-W1121	2441930.31	1973 Sep 4 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W1124	2441931.07	1973 Sep 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1125	2441931.08	1973 Sep 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1973-A44	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	24	-	-
1973-W1126	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W1127	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-Y373	2441931.23	1973 Sep 5 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	85	-	-
1973-W1128	2441931.26	1973 Sep 5 1820:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	58	-	-
1973-W1129	2441931.29	1973 Sep 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1973-W1130	2441931.40	1973 Sep 5 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W1131	2441931.50	1973 Sep 6 0001:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1132	2441932.38	1973 Sep 6 2111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W1133	2441932.40	1973 Sep 6 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1134	2441933.07	1973 Sep 7 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1135	2441933.08	1973 Sep 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-A45	2441933.16	1973 Sep 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	24	-	-
1973-W1136	2441933.16	1973 Sep 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1973-W1137	2441933.23	1973 Sep 7 1737:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W1138	2441933.23	1973 Sep 7 1737:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	56	-	-
1973-W1139	2441933.24	1973 Sep 7 1746:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W1140	2441933.31	1973 Sep 7 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1973-Y374	2441933.53	1973 Sep 8 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-W1141	2441936.07	1973 Sep 10 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W1142	2441936.08	1973 Sep 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-W1143	2441936.17	1973 Sep 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1973-W1144	2441936.20	1973 Sep 10 1641:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1145	2441936.20	1973 Sep 10 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W1146	2441936.29	1973 Sep 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1973-W1147	2441936.30	1973 Sep 10 1904:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1973-W1148	2441936.51	1973 Sep 11 0015:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1149	2441936.83	1973 Sep 11 0752:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1151	2441937.31	1973 Sep 11 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1152	2441937.80	1973 Sep 12 0706:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1153	2441938.07	1973 Sep 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-A48	2441938.07	1973 Sep 12 1345:59	Rocketsonde	-	-	Chaff	-	-	-	CLBI	-	-	-	40	-	-
1973-W1154	2441938.08	1973 Sep 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1155	2441938.08	1973 Sep 12 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W1156	2441938.12	1973 Sep 12 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W1158	2441938.15	1973 Sep 12 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1973-W1159	2441938.16	1973 Sep 12 1546:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	65	-	-
1973-W1160	2441938.17	1973 Sep 12 1559:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	76	-	-
1973-W1161	2441938.21	1973 Sep 12 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1162	2441938.29	1973 Sep 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1163	2441938.50	1973 Sep 13 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1164	2441938.71	1973 Sep 13 0504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W1166	2441939.26	1973 Sep 13 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1167	2441940.08	1973 Sep 14 1351:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1168	2441940.08	1973 Sep 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1169	2441940.17	1973 Sep 14 1557:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1170	2441940.21	1973 Sep 14 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W1171	2441940.31	1973 Sep 14 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1172	2441940.52	1973 Sep 15 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1173	2441941.51	1973 Sep 16 0015:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-W1174	2441941.56	1973 Sep 16 0119:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1175	2441943.07	1973 Sep 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1176	2441943.08	1973 Sep 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-A52	2441943.19	1973 Sep 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	0	-	-
1973-W1177	2441943.19	1973 Sep 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1973-W1178	2441943.25	1973 Sep 17 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1179	2441943.27	1973 Sep 17 1822:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	52	-	-
1973-W1180	2441943.31	1973 Sep 17 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1181	2441943.31	1973 Sep 17 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1183	2441944.25	1973 Sep 18 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1184	2441944.52	1973 Sep 19 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1973-W1185	2441945.08	1973 Sep 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1186	2441945.10	1973 Sep 19 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1187	2441945.12	1973 Sep 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W1189	2441945.17	1973 Sep 19 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1190	2441945.25	1973 Sep 19 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-W1191	2441945.26	1973 Sep 19 1815:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	67	-	-
1973-W1192	2441945.29	1973 Sep 19 1853:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1973-W1193	2441945.29	1973 Sep 19 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W1194	2441945.53	1973 Sep 20 0041:00	Rocketsonde	-	-	Chaff,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-A55	2441945.70	1973 Sep 20 0449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	23	-	-
1973-A56	2441945.70	1973 Sep 20 0449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	45	-	-
1973-W1196	2441946.19	1973 Sep 20 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1197	2441946.25	1973 Sep 20 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1198	2441947.07	1973 Sep 21 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W1199	2441947.08	1973 Sep 21 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	51	-	-
1973-W1200	2441947.08	1973 Sep 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1201	2441947.21	1973 Sep 21 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W1202	2441947.22	1973 Sep 21 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1203	2441947.24	1973 Sep 21 1740:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1973-W1204	2441947.31	1973 Sep 21 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1973-W1205	2441950.08	1973 Sep 24 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1973-W1206	2441950.09	1973 Sep 24 1415:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1973-W1207	2441950.14	1973 Sep 24 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W1208	2441950.15	1973 Sep 24 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1973-W1209	2441950.23	1973 Sep 24 1731:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1973-W1210	2441950.25	1973 Sep 24 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W1211	2441950.27	1973 Sep 24 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1973-W1212	2441950.31	1973 Sep 24 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1213	2441950.50	1973 Sep 25 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1214	2441950.85	1973 Sep 25 0822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1215	2441950.87	1973 Sep 25 0855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1216	2441950.93	1973 Sep 25 1024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1218	2441952.07	1973 Sep 26 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1219	2441952.08	1973 Sep 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1973-W1220	2441952.10	1973 Sep 26 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-W1222	2441952.15	1973 Sep 26 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W1223	2441952.22	1973 Sep 26 1714:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W1224	2441952.24	1973 Sep 26 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1973-W1225	2441952.27	1973 Sep 26 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1226	2441952.56	1973 Sep 27 0124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	62	-	-
1973-W1227	2441952.93	1973 Sep 27 1024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W1229	2441953.19	1973 Sep 27 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-Y400	2441953.43	1973 Sep 27 2213:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	86	-	-
1973-W1230	2441953.45	1973 Sep 27 2242:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1973-A57	2441954.08	1973 Sep 28 1400:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	48	-	-
1973-W1231	2441954.08	1973 Sep 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1973-W1232	2441954.10	1973 Sep 28 1418:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W1233	2441954.17	1973 Sep 28 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1973-W1234	2441954.21	1973 Sep 28 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1235	2441954.29	1973 Sep 28 1855:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1973-A58	2441954.31	1973 Sep 28 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	24	-	-
1973-W1244	2441955.77	1973 Sep 30 0623:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-Y403	2441955.96	1973 Sep 30 1055:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1245	2441957.07	1973 Oct 1 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W1246	2441957.08	1973 Oct 1 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-W1247	2441957.09	1973 Oct 1 1404:59	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	52	-	-
1973-W1248	2441957.15	1973 Oct 1 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1973-W1249	2441957.51	1973 Oct 2 0017:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-W1251	2441958.25	1973 Oct 2 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1973-W1252	2441958.25	1973 Oct 2 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W1253	2441958.40	1973 Oct 2 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W1254	2441959.09	1973 Oct 3 1406:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1973-W1255	2441959.10	1973 Oct 3 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	58	-	-
1973-W1256	2441959.17	1973 Oct 3 1600:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	74	-	-
1973-Y408	2441959.19	1973 Oct 3 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W1258	2441959.26	1973 Oct 3 1817:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1973-Y409	2441959.29	1973 Oct 3 1857:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	89	-	-
1973-W1259	2441959.29	1973 Oct 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1973-W1260	2441959.48	1973 Oct 3 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1973-Y410	2441959.54	1973 Oct 4 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1261	2441959.56	1973 Oct 4 0130:00	Rocketsonde	-	-	Starute,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1973-W1262	2441959.61	1973 Oct 4 0235:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1263	2441959.68	1973 Oct 4 0419:59	Rocketsonde	-	-	Starute,Arcasonde	-	-	-	WS	-	-	-	73	-	-
1973-W1264	2441959.70	1973 Oct 4 0449:59	Rocketsonde	-	-	Starute,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1973-Y411	2441960.27	1973 Oct 4 1825:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	88	-	-
1973-Y412	2441960.28	1973 Oct 4 1845:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	88	-	-
1973-W1266	2441960.40	1973 Oct 4 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W1267	2441961.07	1973 Oct 5 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W1268	2441961.08	1973 Oct 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1973-W1269	2441961.10	1973 Oct 5 1425:00	Rocketsonde	-	-	Met Para,AN/DMQ-9	-	-	-	ANT	-	-	-	52	-	-
1973-W1270	2441961.15	1973 Oct 5 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1973-Y413	2441961.20	1973 Oct 5 1643:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	87	-	-
1973-W1271	2441961.21	1973 Oct 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-Y414	2441961.21	1973 Oct 5 1707:00	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	86	-	-
1973-Y415	2441961.23	1973 Oct 5 1727:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	87	-	-
1973-Y416	2441961.24	1973 Oct 5 1748:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	86	-	-
1973-Y417	2441961.38	1973 Oct 5 2111:00	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	85	-	-
1973-W1272	2441961.40	1973 Oct 5 2130:00	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	69	-	-
1973-Y418	2441961.41	1973 Oct 5 2149:59	Rocketsonde	-	-	Met Sphere,MK-1	-	-	-	PM	-	-	-	85	-	-
1973-W1273	2441964.08	1973 Oct 8 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-
1973-W1274	2441964.15	1973 Oct 8 1533:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	75	-	-
1973-W1276	2441965.24	1973 Oct 9 1749:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	54	-	-
1973-W1277	2441965.25	1973 Oct 9 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1278	2441965.27	1973 Oct 9 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1973-W1279	2441965.29	1973 Oct 9 1858:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-W1280	2441965.40	1973 Oct 9 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1973-W1281	2441966.00	1973 Oct 10 1203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1282	2441966.10	1973 Oct 10 1422:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W1283	2441966.10	1973 Oct 10 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1973-Y425	2441966.19	1973 Oct 10 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1973-W1285	2441966.27	1973 Oct 10 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1973-W1286	2441966.29	1973 Oct 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1287	2441966.55	1973 Oct 11 0118:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1973-W1288	2441966.94	1973 Oct 11 1040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1973-W1289	2441967.32	1973 Oct 11 1945:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1973-W1290	2441967.40	1973 Oct 11 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W1291	2441968.07	1973 Oct 12 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1973-W1293	2441968.17	1973 Oct 12 1607:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1973-W1294	2441968.21	1973 Oct 12 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1295	2441968.33	1973 Oct 12 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1973-W1296	2441971.08	1973 Oct 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-W1297	2441971.14	1973 Oct 15 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W1298	2441971.15	1973 Oct 15 1538:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1973-Y427	2441971.21	1973 Oct 15 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W1299	2441971.23	1973 Oct 15 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1300	2441971.24	1973 Oct 15 1745:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1973-W1301	2441971.25	1973 Oct 15 1803:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	66	-	-
1973-W1302	2441971.27	1973 Oct 15 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1303	2441971.28	1973 Oct 15 1845:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	68	-	-
1973-W1304	2441971.31	1973 Oct 15 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1973-Y428	2441971.51	1973 Oct 16 0013:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1973-Y430	2441972.21	1973 Oct 16 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W1306	2441972.25	1973 Oct 16 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1307	2441972.40	1973 Oct 16 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W1308	2441973.07	1973 Oct 17 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1973-W1309	2441973.10	1973 Oct 17 1419:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1310	2441973.10	1973 Oct 17 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	73	-	-
1973-W1311	2441973.10	1973 Oct 17 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1313	2441973.15	1973 Oct 17 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1973-Y435	2441973.21	1973 Oct 17 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	86	-	-
1973-W1314	2441973.25	1973 Oct 17 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1315	2441973.27	1973 Oct 17 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1973-W1316	2441973.30	1973 Oct 17 1907:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1317	2441973.33	1973 Oct 17 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-Y436	2441973.38	1973 Oct 17 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1973-W1318	2441973.40	1973 Oct 17 2133:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1319	2441973.53	1973 Oct 18 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-Y438	2441974.06	1973 Oct 18 1330:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1973-W1320	2441974.85	1973 Oct 19 0818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1973-W1321	2441975.08	1973 Oct 19 1349:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	76	-	-
1973-W1322	2441975.08	1973 Oct 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	71	-	-
1973-W1323	2441975.09	1973 Oct 19 1414:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1325	2441975.20	1973 Oct 19 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-Y439	2441975.21	1973 Oct 19 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	89	-	-
1973-W1326	2441975.25	1973 Oct 19 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	74	-	-
1973-W1327	2441975.27	1973 Oct 19 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	53	-	-
1973-W1328	2441975.53	1973 Oct 20 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1973-W1329	2441979.21	1973 Oct 23 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1973-W1330	2441979.27	1973 Oct 23 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1331	2441979.32	1973 Oct 23 1947:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	59	-	-
1973-W1332	2441979.40	1973 Oct 23 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1973-W1333	2441979.85	1973 Oct 24 0830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1334	2441979.94	1973 Oct 24 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1335	2441980.01	1973 Oct 24 1214:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1336	2441980.07	1973 Oct 24 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1337	2441980.08	1973 Oct 24 1400:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1973-W1338	2441980.11	1973 Oct 24 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-Y442	2441980.11	1973 Oct 24 1445:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W1340	2441980.15	1973 Oct 24 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1973-Y444	2441980.17	1973 Oct 24 1558:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1973-Y445	2441980.19	1973 Oct 24 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	80	-	-
1973-W1341	2441980.51	1973 Oct 25 0019:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1973-W1342	2441981.20	1973 Oct 25 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-Y446	2441981.38	1973 Oct 25 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1973-W1343	2441981.39	1973 Oct 25 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1344	2441982.07	1973 Oct 26 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1345	2441982.10	1973 Oct 26 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1973-W1347	2441982.21	1973 Oct 26 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1348	2441982.25	1973 Oct 26 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1349	2441982.25	1973 Oct 26 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1973-W1350	2441982.30	1973 Oct 26 1904:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1351	2441982.53	1973 Oct 27 0047:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1352	2441985.14	1973 Oct 29 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W1353	2441985.19	1973 Oct 29 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1973-W1354	2441985.29	1973 Oct 29 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1355	2441985.31	1973 Oct 29 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-Y447	2441985.53	1973 Oct 30 0047:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1356	2441985.93	1973 Oct 30 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1358	2441986.40	1973 Oct 30 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1367	2441987.08	1973 Oct 31 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1973-W1368	2441987.11	1973 Oct 31 1440:00	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1973-W1369	2441987.11	1973 Oct 31 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W1371	2441987.26	1973 Oct 31 1817:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1372	2441987.31	1973 Oct 31 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1373	2441987.33	1973 Oct 31 1951:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W1374	2441987.33	1973 Oct 31 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1973-Y453	2441987.53	1973 Nov 1 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1375	2441988.26	1973 Nov 1 1809:00	Rocketsonde	-	-	Starute,Density gauge	-	-	-	PM	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y455	2441988.50	1973 Nov 2 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1376	2441988.87	1973 Nov 2 0848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	54	-	-
1973-W1377	2441989.08	1973 Nov 2 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-W1378	2441989.10	1973 Nov 2 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1973-W1380	2441989.19	1973 Nov 2 1637:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W1381	2441989.22	1973 Nov 2 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1382	2441989.27	1973 Nov 2 1833:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1973-W1383	2441989.32	1973 Nov 2 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	77	-	-
1973-W1384	2441992.08	1973 Nov 5 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-
1973-W1385	2441992.11	1973 Nov 5 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1386	2441992.19	1973 Nov 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1973-W1387	2441992.20	1973 Nov 5 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1973-W1388	2441992.25	1973 Nov 5 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1389	2441992.32	1973 Nov 5 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1390	2441994.08	1973 Nov 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1973-W1391	2441994.11	1973 Nov 7 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1392	2441994.15	1973 Nov 7 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-Y461	2441994.23	1973 Nov 7 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1973-W1394	2441994.25	1973 Nov 7 1757:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1973-W1395	2441994.28	1973 Nov 7 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1396	2441994.32	1973 Nov 7 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1397	2441994.53	1973 Nov 8 0048:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1398	2441994.95	1973 Nov 8 1041:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-A66	2441995.14	1973 Nov 8 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	46	-	-
1973-W1399	2441995.17	1973 Nov 8 1606:00	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	63	-	-
1973-Y462	2441995.50	1973 Nov 9 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1400	2441996.08	1973 Nov 9 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1973-W1401	2441996.11	1973 Nov 9 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W1402	2441996.12	1973 Nov 9 1455:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	56	-	-
1973-W1404	2441996.25	1973 Nov 9 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1973-W1405	2441996.28	1973 Nov 9 1847:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	76	-	-
1973-Y463	2441996.33	1973 Nov 9 1952:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	80	-	-
1973-W1406	2441996.33	1973 Nov 9 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-Y464	2441996.38	1973 Nov 9 2103:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W1407	2441996.40	1973 Nov 9 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W1408	2441999.13	1973 Nov 12 1511:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	56	-	-
1973-W1409	2441999.19	1973 Nov 12 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1973-W1410	2441999.28	1973 Nov 12 1847:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	55	-	-
1973-W1411	2441999.29	1973 Nov 12 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1412	2441999.34	1973 Nov 12 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1413	2441999.38	1973 Nov 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1414	2441999.90	1973 Nov 13 0930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1415	2441999.99	1973 Nov 13 1145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1417	2442000.31	1973 Nov 13 1919:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1418	2442000.31	1973 Nov 13 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1973-W1419	2442001.08	1973 Nov 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	67	-	-
1973-W1420	2442001.08	1973 Nov 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	70	-	-
1973-W1421	2442001.11	1973 Nov 14 1438:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1973-W1422	2442001.14	1973 Nov 14 1526:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W1424	2442001.26	1973 Nov 14 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	52	-	-
1973-W1425	2442001.29	1973 Nov 14 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1426	2442001.33	1973 Nov 14 1952:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1427	2442001.40	1973 Nov 14 2129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-Y470	2442001.53	1973 Nov 15 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1428	2442002.04	1973 Nov 15 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-A69	2442002.23	1973 Nov 15 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	49	-	-
1973-W1430	2442002.50	1973 Nov 16 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1973-W1431	2442003.08	1973 Nov 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	67	-	-
1973-W1432	2442003.08	1973 Nov 16 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	73	-	-
1973-W1433	2442003.10	1973 Nov 16 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1973-W1434	2442003.18	1973 Nov 16 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1973-W1436	2442003.20	1973 Nov 16 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W1437	2442003.25	1973 Nov 16 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1973-W1438	2442003.40	1973 Nov 16 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-W1439	2442003.44	1973 Nov 16 2233:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	76	-	-
1973-W1440	2442006.08	1973 Nov 19 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	70	-	-
1973-W1441	2442006.11	1973 Nov 19 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W1442	2442006.25	1973 Nov 19 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1443	2442006.25	1973 Nov 19 1807:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1973-W1444	2442006.31	1973 Nov 19 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1445	2442006.32	1973 Nov 19 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1447	2442006.50	1973 Nov 20 0000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1448	2442007.31	1973 Nov 20 1932:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1449	2442007.32	1973 Nov 20 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	51	-	-
1973-W1451	2442007.85	1973 Nov 21 0825:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1973-W1452	2442008.08	1973 Nov 21 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-W1453	2442008.11	1973 Nov 21 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1973-W1454	2442008.19	1973 Nov 21 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-Y477	2442008.23	1973 Nov 21 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1973-W1455	2442008.23	1973 Nov 21 1734:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	63	-	-
1973-W1456	2442008.25	1973 Nov 21 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1973-W1457	2442008.33	1973 Nov 21 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W1458	2442008.44	1973 Nov 21 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-Y478	2442008.53	1973 Nov 22 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1461	2442013.08	1973 Nov 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	57	-	-
1973-W1462	2442013.08	1973 Nov 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1463	2442013.11	1973 Nov 26 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1464	2442013.19	1973 Nov 26 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1466	2442013.26	1973 Nov 26 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1467	2442013.30	1973 Nov 26 1918:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1973-A70	2442013.32	1973 Nov 26 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	47	-	-
1973-W1468	2442013.93	1973 Nov 27 1019:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1469	2442014.03	1973 Nov 27 1245:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-A71	2442014.08	1973 Nov 27 1352:59	Rocketsonde	-	-	STS	-	-	-	WS	-	-	-	47	-	-
1973-W1470	2442014.50	1973 Nov 28 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1973-W1471	2442015.11	1973 Nov 28 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1973-W1472	2442015.15	1973 Nov 28 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1474	2442015.20	1973 Nov 28 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1475	2442015.32	1973 Nov 28 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1973-W1476	2442015.40	1973 Nov 28 2133:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	69	-	-
1973-W1477	2442015.41	1973 Nov 28 2145:00	Rocketsonde	-	-	STS	-	-	-	WS	-	-	-	62	-	-
1973-W1478	2442015.42	1973 Nov 28 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-W1479	2442015.53	1973 Nov 29 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1481	2442016.42	1973 Nov 29 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1486	2442017.11	1973 Nov 30 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1973-W1487	2442017.11	1973 Nov 30 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1973-W1488	2442017.13	1973 Nov 30 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1490	2442017.19	1973 Nov 30 1626:59	Rocketsonde	-	-	Met Para	-	-	-	WI	-	-	-	60	-	-
1973-Y487	2442017.21	1973 Nov 30 1700:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	82	-	-
1973-W1491	2442017.32	1973 Nov 30 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1492	2442017.34	1973 Nov 30 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1973-W1493	2442017.40	1973 Nov 30 2140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1494	2442020.11	1973 Dec 3 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1973-W1496	2442020.21	1973 Dec 3 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1497	2442020.21	1973 Dec 3 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	69	-	-
1973-W1498	2442020.25	1973 Dec 3 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1973-W1499	2442020.35	1973 Dec 3 2017:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-A73	2442021.20	1973 Dec 4 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	47	-	-
1973-W1502	2442021.28	1973 Dec 4 1848:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W1503	2442022.11	1973 Dec 5 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1973-W1505	2442022.19	1973 Dec 5 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W1506	2442022.23	1973 Dec 5 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1507	2442022.25	1973 Dec 5 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1973-W1508	2442022.26	1973 Dec 5 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	71	-	-
1973-W1509	2442022.32	1973 Dec 5 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-W1510	2442022.53	1973 Dec 6 0046:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1973-W1511	2442022.90	1973 Dec 6 0930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-W1513	2442023.20	1973 Dec 6 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1973-W1514	2442023.26	1973 Dec 6 1821:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1515	2442023.28	1973 Dec 6 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	51	-	-
1973-W1516	2442023.70	1973 Dec 7 0449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W1517	2442024.01	1973 Dec 7 1220:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-W1518	2442024.08	1973 Dec 7 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	60	-	-
1973-W1519	2442024.14	1973 Dec 7 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-W1520	2442024.18	1973 Dec 7 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1973-W1522	2442024.19	1973 Dec 7 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1973-W1523	2442024.31	1973 Dec 7 1924:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1524	2442024.31	1973 Dec 7 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-A75	2442024.32	1973 Dec 7 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	46	-	-
1973-W1525	2442024.40	1973 Dec 7 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1526	2442027.01	1973 Dec 10 1220:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1973-W1527	2442027.08	1973 Dec 10 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	63	-	-
1973-W1528	2442027.12	1973 Dec 10 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	52	-	-
1973-W1530	2442027.21	1973 Dec 10 1703:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	65	-	-
1973-W1531	2442027.23	1973 Dec 10 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1973-W1532	2442027.25	1973 Dec 10 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1973-W1533	2442027.32	1973 Dec 10 1935:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1973-W1534	2442027.33	1973 Dec 10 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1535	2442028.13	1973 Dec 11 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W1536	2442028.23	1973 Dec 11 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1538	2442028.31	1973 Dec 11 1930:00	Rocketsonde	-	-	-	-	-	-	WS	-	-	-	64	-	-
1973-W1539	2442028.63	1973 Dec 12 0310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1973-W1540	2442029.01	1973 Dec 12 1220:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-W1541	2442029.15	1973 Dec 12 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1973-W1543	2442029.22	1973 Dec 12 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1973-W1544	2442029.25	1973 Dec 12 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1973-W1545	2442029.25	1973 Dec 12 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-A76	2442029.26	1973 Dec 12 1814:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	48	-	-
1973-Y501	2442029.32	1973 Dec 12 1934:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1973-W1546	2442029.34	1973 Dec 12 2007:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W1547	2442029.36	1973 Dec 12 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1973-W1548	2442029.40	1973 Dec 12 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1973-Y502	2442029.44	1973 Dec 12 2233:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W1549	2442029.53	1973 Dec 13 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	55	-	-
1973-W1551	2442030.29	1973 Dec 13 1903:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1552	2442030.31	1973 Dec 13 1930:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1973-W1553	2442031.08	1973 Dec 14 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	69	-	-
1973-W1554	2442031.12	1973 Dec 14 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1973-W1555	2442031.18	1973 Dec 14 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1973-W1557	2442031.25	1973 Dec 14 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1973-A77	2442031.27	1973 Dec 14 1835:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	47	-	-
1973-W1558	2442031.32	1973 Dec 14 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-Y503	2442031.62	1973 Dec 15 0248:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1973-W1559	2442034.08	1973 Dec 17 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1973-W1560	2442034.09	1973 Dec 17 1407:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	58	-	-
1973-W1561	2442034.12	1973 Dec 17 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W1563	2442034.22	1973 Dec 17 1722:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1973-W1564	2442034.25	1973 Dec 17 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1973-W1565	2442034.25	1973 Dec 17 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	72	-	-
1973-W1566	2442034.32	1973 Dec 17 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1973-W1568	2442035.31	1973 Dec 18 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-W1569	2442035.34	1973 Dec 18 2007:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1570	2442035.82	1973 Dec 19 0737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1973-W1571	2442036.12	1973 Dec 19 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	50	-	-
1973-A79	2442036.13	1973 Dec 19 1504:59	Rocketsonde	-	-	Met Para,Arcasonde	-	-	-	WI	-	-	-	48	-	-
1973-W1573	2442036.25	1973 Dec 19 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1973-W1574	2442036.32	1973 Dec 19 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1973-Y511	2442036.38	1973 Dec 19 2106:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1973-W1575	2442036.40	1973 Dec 19 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1973-W1576	2442036.53	1973 Dec 20 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1973-W1578	2442037.21	1973 Dec 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-W1579	2442037.29	1973 Dec 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1973-W1580	2442037.93	1973 Dec 21 1024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1973-W1582	2442038.19	1973 Dec 21 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	57	-	-
1973-W1583	2442038.28	1973 Dec 21 1841:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1973-W1584	2442038.29	1973 Dec 21 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1973-W1585	2442038.32	1973 Dec 21 1934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1973-W1586	2442038.71	1973 Dec 22 0455:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1973-W1587	2442040.98	1973 Dec 24 1135:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W1588	2442041.02	1973 Dec 24 1234:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1973-W1589	2442041.07	1973 Dec 24 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	58	-	-
1973-W1590	2442041.11	1973 Dec 24 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1973-W1591	2442041.15	1973 Dec 24 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1973-W1592	2442043.12	1973 Dec 26 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	55	-	-
1973-W1593	2442043.40	1973 Dec 26 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1973-Y519	2442043.53	1973 Dec 27 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1973-W1595	2442044.20	1973 Dec 27 1652:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1973-Y520	2442044.27	1973 Dec 27 1831:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1973-W1598	2442045.19	1973 Dec 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1973-W1599	2442045.33	1973 Dec 28 2002:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1973-W1600	2442045.40	1973 Dec 28 2143:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1974-W08	2442050.12	1974 Jan 2 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1086	2442283.35	1974 Aug 23 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1087	2442283.36	1974 Aug 23 2034:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1088	2442285.89	1974 Aug 26 0915:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W1089	2442286.07	1974 Aug 26 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W1090	2442286.08	1974 Aug 26 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	79	-	-
1974-W1092	2442286.29	1974 Aug 26 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1093	2442286.42	1974 Aug 26 2158:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1094	2442287.37	1974 Aug 27 2059:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1095	2442287.88	1974 Aug 28 0901:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-A33	2442288.16	1974 Aug 28 1549:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	48	-	-
1974-W1096	2442288.17	1974 Aug 28 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-Y274	2442288.20	1974 Aug 28 1644:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1974-W1097	2442288.20	1974 Aug 28 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W1098	2442288.20	1974 Aug 28 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	66	-	-
1974-W1100	2442288.22	1974 Aug 28 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-Y275	2442288.25	1974 Aug 28 1758:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	88	-	-
1974-W1101	2442288.26	1974 Aug 28 1821:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1974-W1102	2442288.29	1974 Aug 28 1902:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-A34	2442288.39	1974 Aug 28 2122:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	49	-	-
1974-W1103	2442288.55	1974 Aug 29 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1974-W1104	2442288.88	1974 Aug 29 0900:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	52	-	-
1974-W1105	2442289.10	1974 Aug 29 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W1106	2442289.14	1974 Aug 29 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W1107	2442289.35	1974 Aug 29 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W1108	2442290.07	1974 Aug 30 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1109	2442290.08	1974 Aug 30 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W1110	2442290.13	1974 Aug 30 1501:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W1111	2442290.14	1974 Aug 30 1527:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1112	2442290.17	1974 Aug 30 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1118	2442293.19	1974 Sep 2 1635:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1121	2442294.11	1974 Sep 3 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1122	2442294.23	1974 Sep 3 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1123	2442294.33	1974 Sep 3 1952:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	55	-	-
1974-W1124	2442295.07	1974 Sep 4 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	60	-	-
1974-W1125	2442295.07	1974 Sep 4 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-Y282	2442295.19	1974 Sep 4 1638:59	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W1127	2442295.21	1974 Sep 4 1702:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	65	-	-
1974-W1128	2442295.22	1974 Sep 4 1712:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1129	2442295.23	1974 Sep 4 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1130	2442295.24	1974 Sep 4 1752:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-
1974-W1131	2442295.33	1974 Sep 4 2002:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-Y283	2442295.38	1974 Sep 4 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1132	2442295.39	1974 Sep 4 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-W1133	2442295.56	1974 Sep 5 0129:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1134	2442296.10	1974 Sep 5 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1135	2442296.21	1974 Sep 5 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1136	2442296.33	1974 Sep 5 1958:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	63	-	-
1974-W1137	2442296.56	1974 Sep 6 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-Y285	2442296.72	1974 Sep 6 0522:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W1138	2442296.91	1974 Sep 6 0952:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1139	2442297.11	1974 Sep 6 1438:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-W1141	2442297.12	1974 Sep 6 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1142	2442297.14	1974 Sep 6 1526:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1143	2442297.15	1974 Sep 6 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W1144	2442297.15	1974 Sep 6 1536:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1974-W1145	2442297.38	1974 Sep 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1146	2442297.71	1974 Sep 7 0501:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1974-W1147	2442298.71	1974 Sep 8 0500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1149	2442300.15	1974 Sep 9 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1150	2442300.27	1974 Sep 9 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1151	2442300.42	1974 Sep 9 2203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1152	2442300.90	1974 Sep 10 0942:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W1153	2442301.06	1974 Sep 10 1323:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	76	-	-
1974-W1154	2442301.23	1974 Sep 10 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1974-W1156	2442301.33	1974 Sep 10 1949:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	51	-	-
1974-Y288	2442301.95	1974 Sep 11 1044:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W1157	2442302.08	1974 Sep 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	68	-	-
1974-W1158	2442302.10	1974 Sep 11 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1160	2442302.15	1974 Sep 11 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1974-W1161	2442302.15	1974 Sep 11 1534:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	59	-	-
1974-W1162	2442302.15	1974 Sep 11 1535:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-W1163	2442302.19	1974 Sep 11 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1164	2442302.21	1974 Sep 11 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1165	2442302.33	1974 Sep 11 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	62	-	-
1974-Y290	2442302.35	1974 Sep 11 2030:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1166	2442302.38	1974 Sep 11 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1167	2442302.94	1974 Sep 12 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1974-W1168	2442303.25	1974 Sep 12 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1169	2442303.33	1974 Sep 12 2002:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W1170	2442303.40	1974 Sep 12 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1171	2442304.08	1974 Sep 13 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W1172	2442304.09	1974 Sep 13 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W1173	2442304.10	1974 Sep 13 1418:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1175	2442304.21	1974 Sep 13 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	50	-	-
1974-W1176	2442304.21	1974 Sep 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1974-W1177	2442304.97	1974 Sep 14 1111:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1974-W1178	2442306.89	1974 Sep 16 0927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W1179	2442307.05	1974 Sep 16 1309:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W1180	2442307.07	1974 Sep 16 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W1182	2442307.14	1974 Sep 16 1520:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1974-W1183	2442307.20	1974 Sep 16 1642:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	60	-	-
1974-W1184	2442307.20	1974 Sep 16 1649:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1185	2442307.20	1974 Sep 16 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W1186	2442307.21	1974 Sep 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1187	2442307.31	1974 Sep 16 1927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W1188	2442307.36	1974 Sep 16 2034:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	68	-	-
1974-W1189	2442308.14	1974 Sep 17 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1974-W1190	2442308.35	1974 Sep 17 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1191	2442309.07	1974 Sep 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W1192	2442309.07	1974 Sep 18 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1193	2442309.08	1974 Sep 18 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	70	-	-
1974-W1194	2442309.13	1974 Sep 18 1502:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1196	2442309.13	1974 Sep 18 1509:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W1197	2442309.15	1974 Sep 18 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-Y296	2442309.19	1974 Sep 18 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W1198	2442309.21	1974 Sep 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1199	2442309.35	1974 Sep 18 2026:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	53	-	-
1974-W1200	2442309.36	1974 Sep 18 2037:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W1201	2442309.57	1974 Sep 19 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	67	-	-
1974-W1202	2442310.02	1974 Sep 19 1233:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	52	-	-
1974-W1203	2442310.09	1974 Sep 19 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1204	2442310.18	1974 Sep 19 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W1205	2442310.26	1974 Sep 19 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W1206	2442310.26	1974 Sep 19 1812:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1974-W1207	2442310.32	1974 Sep 19 1942:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1208	2442311.15	1974 Sep 20 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1974-W1210	2442311.35	1974 Sep 20 2021:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1211	2442311.35	1974 Sep 20 2024:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	57	-	-
1974-W1212	2442311.57	1974 Sep 21 0144:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1213	2442314.09	1974 Sep 23 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W1215	2442314.12	1974 Sep 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1216	2442314.20	1974 Sep 23 1646:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1217	2442314.25	1974 Sep 23 1755:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1218	2442314.36	1974 Sep 23 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	55	-	-
1974-W1219	2442315.02	1974 Sep 24 1222:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W1220	2442315.11	1974 Sep 24 1441:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	74	-	-
1974-W1221	2442315.21	1974 Sep 24 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1222	2442315.25	1974 Sep 24 1800:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1974-W1223	2442315.53	1974 Sep 25 0049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	61	-	-
1974-W1224	2442316.06	1974 Sep 25 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W1225	2442316.07	1974 Sep 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1226	2442316.12	1974 Sep 25 1447:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1227	2442316.12	1974 Sep 25 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-A37	2442316.15	1974 Sep 25 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	45	-	-
1974-Y312	2442316.19	1974 Sep 25 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W1229	2442316.27	1974 Sep 25 1823:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W1230	2442316.27	1974 Sep 25 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1231	2442316.53	1974 Sep 26 0049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1974-W1232	2442317.14	1974 Sep 26 1520:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1233	2442317.22	1974 Sep 26 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W1234	2442317.26	1974 Sep 26 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	60	-	-
1974-W1235	2442317.54	1974 Sep 27 0055:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1974-W1236	2442318.11	1974 Sep 27 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1238	2442318.15	1974 Sep 27 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1239	2442318.18	1974 Sep 27 1621:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W1240	2442318.98	1974 Sep 28 1137:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1250	2442321.10	1974 Sep 30 1426:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W1251	2442321.15	1974 Sep 30 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1974-W1252	2442321.17	1974 Sep 30 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1254	2442321.20	1974 Sep 30 1651:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1255	2442321.20	1974 Sep 30 1652:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1256	2442321.24	1974 Sep 30 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-A39	2442321.36	1974 Sep 30 2040:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	48	-	-
1974-W1257	2442321.38	1974 Sep 30 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W1258	2442322.09	1974 Oct 1 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1259	2442322.90	1974 Oct 2 0934:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1260	2442323.06	1974 Oct 2 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1261	2442323.07	1974 Oct 2 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1974-W1263	2442323.14	1974 Oct 2 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1264	2442323.18	1974 Oct 2 1621:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1974-Y318	2442323.19	1974 Oct 2 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-
1974-W1265	2442323.24	1974 Oct 2 1752:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1974-W1266	2442323.33	1974 Oct 2 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1267	2442323.33	1974 Oct 2 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1268	2442323.36	1974 Oct 2 2044:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1974-Y319	2442323.38	1974 Oct 2 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1269	2442323.39	1974 Oct 2 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W1270	2442323.51	1974 Oct 3 0014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-Y320	2442323.88	1974 Oct 3 0900:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W1271	2442324.13	1974 Oct 3 1510:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	70	-	-
1974-W1272	2442324.23	1974 Oct 3 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1273	2442324.34	1974 Oct 3 2008:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W1274	2442325.07	1974 Oct 4 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W1275	2442325.11	1974 Oct 4 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W1277	2442325.11	1974 Oct 4 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	63	-	-
1974-W1278	2442325.14	1974 Oct 4 1524:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	64	-	-
1974-W1279	2442325.38	1974 Oct 4 2101:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-Y321	2442325.63	1974 Oct 5 0310:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1974-W1280	2442327.90	1974 Oct 7 0937:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	61	-	-
1974-W1281	2442328.12	1974 Oct 7 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	63	-	-
1974-W1282	2442328.14	1974 Oct 7 1521:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1974-W1283	2442328.17	1974 Oct 7 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-Y322	2442328.19	1974 Oct 7 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	94	-	-
1974-W1284	2442328.23	1974 Oct 7 1733:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	61	-	-
1974-W1285	2442328.48	1974 Oct 7 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1286	2442329.15	1974 Oct 8 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1287	2442329.22	1974 Oct 8 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1289	2442329.33	1974 Oct 8 1949:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-A43	2442330.07	1974 Oct 9 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	47	-	-
1974-W1292	2442330.15	1974 Oct 9 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1974-W1293	2442330.15	1974 Oct 9 1541:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W1294	2442330.34	1974 Oct 9 2015:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1295	2442330.35	1974 Oct 9 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W1296	2442330.35	1974 Oct 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1297	2442330.38	1974 Oct 9 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1298	2442330.41	1974 Oct 9 2155:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1299	2442330.57	1974 Oct 10 0140:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	60	-	-
1974-W1300	2442330.89	1974 Oct 10 0917:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W1301	2442331.26	1974 Oct 10 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	53	-	-
1974-Y328	2442331.38	1974 Oct 10 2102:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1302	2442331.39	1974 Oct 10 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1303	2442332.09	1974 Oct 11 1408:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1304	2442332.09	1974 Oct 11 1410:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	70	-	-
1974-W1305	2442332.15	1974 Oct 11 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1974-W1306	2442332.17	1974 Oct 11 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	58	-	-
1974-W1307	2442332.28	1974 Oct 11 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	68	-	-
1974-W1308	2442332.33	1974 Oct 11 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	61	-	-
1974-W1309	2442332.56	1974 Oct 12 0130:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	75	-	-
1974-W1310	2442334.53	1974 Oct 14 0044:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1311	2442334.71	1974 Oct 14 0455:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W1312	2442335.89	1974 Oct 15 0921:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W1313	2442336.05	1974 Oct 15 1304:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W1314	2442336.18	1974 Oct 15 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	65	-	-
1974-W1315	2442336.21	1974 Oct 15 1704:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W1316	2442336.24	1974 Oct 15 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1974-W1317	2442336.36	1974 Oct 15 2035:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	68	-	-
1974-W1318	2442337.07	1974 Oct 16 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W1319	2442337.11	1974 Oct 16 1440:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1320	2442337.12	1974 Oct 16 1451:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1974-W1322	2442337.15	1974 Oct 16 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-Y331	2442337.15	1974 Oct 16 1537:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1974-Y332	2442337.19	1974 Oct 16 1630:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W1323	2442337.21	1974 Oct 16 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1324	2442337.35	1974 Oct 16 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	67	-	-
1974-Y333	2442337.38	1974 Oct 16 2111:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1325	2442337.40	1974 Oct 16 2141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-W1326	2442337.55	1974 Oct 17 0117:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1327	2442338.05	1974 Oct 17 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1328	2442338.16	1974 Oct 17 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-A46	2442339.07	1974 Oct 18 1343:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	42	-	-
1974-W1329	2442339.08	1974 Oct 18 1356:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1974-W1330	2442339.11	1974 Oct 18 1436:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1331	2442339.12	1974 Oct 18 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-
1974-W1332	2442339.15	1974 Oct 18 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1974-W1333	2442339.21	1974 Oct 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1335	2442339.25	1974 Oct 18 1756:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1336	2442339.33	1974 Oct 18 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	67	-	-
1974-W1337	2442339.39	1974 Oct 18 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1338	2442342.11	1974 Oct 21 1435:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	53	-	-
1974-W1339	2442342.12	1974 Oct 21 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1340	2442342.15	1974 Oct 21 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1974-W1341	2442342.17	1974 Oct 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1343	2442342.24	1974 Oct 21 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1344	2442342.25	1974 Oct 21 1806:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W1345	2442342.33	1974 Oct 21 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	69	-	-
1974-W1346	2442343.09	1974 Oct 22 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1974-W1347	2442344.03	1974 Oct 23 1247:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1348	2442344.06	1974 Oct 23 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W1349	2442344.07	1974 Oct 23 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W1350	2442344.08	1974 Oct 23 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1974-W1351	2442344.15	1974 Oct 23 1532:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1974-W1352	2442344.16	1974 Oct 23 1551:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-
1974-W1353	2442344.23	1974 Oct 23 1732:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	71	-	-
1974-W1354	2442344.29	1974 Oct 23 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1355	2442344.34	1974 Oct 23 2015:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-Y338	2442344.38	1974 Oct 23 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	82	-	-
1974-W1356	2442344.39	1974 Oct 23 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-W1357	2442345.08	1974 Oct 24 1353:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	69	-	-
1974-W1358	2442345.35	1974 Oct 24 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1359	2442345.89	1974 Oct 25 0927:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W1360	2442346.07	1974 Oct 25 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1361	2442346.08	1974 Oct 25 1352:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1974-W1362	2442346.20	1974 Oct 25 1653:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1974-W1363	2442346.21	1974 Oct 25 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-A48	2442346.34	1974 Oct 25 2006:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	46	-	-
1974-W1365	2442349.19	1974 Oct 28 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1974-W1366	2442350.27	1974 Oct 29 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W1367	2442350.34	1974 Oct 29 2010:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1368	2442350.35	1974 Oct 29 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-A49	2442350.36	1974 Oct 29 2033:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	48	-	-
1974-W1369	2442350.38	1974 Oct 29 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W1370	2442350.90	1974 Oct 30 0932:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	65	-	-
1974-W1371	2442351.07	1974 Oct 30 1344:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1372	2442351.10	1974 Oct 30 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1974-W1373	2442351.13	1974 Oct 30 1503:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1974-W1375	2442351.21	1974 Oct 30 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1974-Y343	2442351.23	1974 Oct 30 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	96	-	-
1974-W1376	2442351.29	1974 Oct 30 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1974-W1377	2442351.38	1974 Oct 30 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	58	-	-
1974-W1383	2442352.09	1974 Oct 31 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1384	2442352.13	1974 Oct 31 1504:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W1385	2442352.21	1974 Oct 31 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1974-W1386	2442353.06	1974 Nov 1 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	72	-	-
1974-W1388	2442353.19	1974 Nov 1 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1974-W1389	2442353.36	1974 Nov 1 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W1390	2442353.42	1974 Nov 1 2159:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	66	-	-
1974-W1391	2442355.50	1974 Nov 4 0000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W1392	2442356.09	1974 Nov 4 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W1394	2442356.27	1974 Nov 4 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1974-W1395	2442356.27	1974 Nov 4 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	62	-	-
1974-W1396	2442357.14	1974 Nov 5 1526:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-
1974-W1397	2442357.17	1974 Nov 5 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1399	2442357.33	1974 Nov 5 2002:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	54	-	-
1974-W1400	2442358.06	1974 Nov 6 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1401	2442358.08	1974 Nov 6 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	67	-	-
1974-W1402	2442358.10	1974 Nov 6 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W1403	2442358.14	1974 Nov 6 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1974-W1405	2442358.25	1974 Nov 6 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1406	2442358.27	1974 Nov 6 1834:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1407	2442358.38	1974 Nov 6 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	67	-	-
1974-W1408	2442358.88	1974 Nov 7 0913:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W1409	2442359.04	1974 Nov 7 1258:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	73	-	-
1974-W1411	2442359.19	1974 Nov 7 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1974-W1412	2442360.10	1974 Nov 8 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1413	2442360.13	1974 Nov 8 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	78	-	-
1974-W1414	2442360.17	1974 Nov 8 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1415	2442360.21	1974 Nov 8 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	52	-	-
1974-W1417	2442360.35	1974 Nov 8 2030:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-W1418	2442363.09	1974 Nov 11 1415:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	58	-	-
1974-W1420	2442363.17	1974 Nov 11 1559:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1974-W1421	2442363.25	1974 Nov 11 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-A52	2442363.27	1974 Nov 11 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	47	-	-
1974-W1422	2442363.38	1974 Nov 11 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1423	2442364.04	1974 Nov 12 1301:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	63	-	-
1974-W1425	2442365.06	1974 Nov 13 1330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	63	-	-
1974-W1426	2442365.09	1974 Nov 13 1409:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1427	2442365.12	1974 Nov 13 1456:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W1429	2442365.17	1974 Nov 13 1611:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-
1974-W1430	2442365.19	1974 Nov 13 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1431	2442365.21	1974 Nov 13 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-Y352	2442365.25	1974 Nov 13 1800:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	95	-	-
1974-W1432	2442365.25	1974 Nov 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1433	2442365.38	1974 Nov 13 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	56	-	-
1974-W1435	2442366.21	1974 Nov 14 1708:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1436	2442366.29	1974 Nov 14 1854:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1437	2442367.03	1974 Nov 15 1241:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	74	-	-
1974-W1438	2442367.08	1974 Nov 15 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1439	2442367.15	1974 Nov 15 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W1441	2442367.19	1974 Nov 15 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1442	2442367.22	1974 Nov 15 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1974-W1443	2442367.24	1974 Nov 15 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1444	2442367.33	1974 Nov 15 2000:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	59	-	-
1974-W1445	2442370.09	1974 Nov 18 1412:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1447	2442370.18	1974 Nov 18 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1448	2442370.19	1974 Nov 18 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1974-W1449	2442370.19	1974 Nov 18 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1974-W1450	2442370.38	1974 Nov 18 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W1451	2442370.39	1974 Nov 18 2115:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1453	2442371.27	1974 Nov 19 1823:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1974-W1454	2442372.16	1974 Nov 20 1545:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1974-W1456	2442372.21	1974 Nov 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1974-W1457	2442372.21	1974 Nov 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1458	2442372.23	1974 Nov 20 1735:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1459	2442372.25	1974 Nov 20 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W1460	2442372.25	1974 Nov 20 1803:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-A55	2442373.17	1974 Nov 21 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	47	-	-
1974-W1462	2442373.36	1974 Nov 21 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1463	2442374.13	1974 Nov 22 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-W1465	2442374.17	1974 Nov 22 1601:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1974-W1466	2442374.24	1974 Nov 22 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1974-W1467	2442374.38	1974 Nov 22 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	67	-	-
1974-Y356	2442374.38	1974 Nov 22 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1974-W1468	2442374.39	1974 Nov 22 2114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1469	2442377.05	1974 Nov 25 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1470	2442377.11	1974 Nov 25 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ANT	-	-	-	75	-	-
1974-W1471	2442377.14	1974 Nov 25 1517:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1472	2442377.17	1974 Nov 25 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	68	-	-
1974-W1474	2442377.19	1974 Nov 25 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1974-W1475	2442377.34	1974 Nov 25 2015:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W1476	2442377.38	1974 Nov 25 2111:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1477	2442377.55	1974 Nov 26 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1479	2442378.36	1974 Nov 26 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W1480	2442378.52	1974 Nov 27 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1481	2442379.10	1974 Nov 27 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	61	-	-
1974-W1482	2442379.12	1974 Nov 27 1458:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	64	-	-
1974-W1483	2442379.15	1974 Nov 27 1531:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1485	2442379.20	1974 Nov 27 1654:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	55	-	-
1974-Y360	2442379.23	1974 Nov 27 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	98	-	-
1974-W1486	2442379.27	1974 Nov 27 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	52	-	-
1974-W1487	2442379.28	1974 Nov 27 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-Y362	2442379.41	1974 Nov 27 2148:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1488	2442379.42	1974 Nov 27 2203:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-W1489	2442379.55	1974 Nov 28 0118:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1492	2442381.19	1974 Nov 29 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1974-W1499	2442384.10	1974 Dec 2 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W1501	2442384.21	1974 Dec 2 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1974-W1502	2442384.21	1974 Dec 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W1503	2442384.23	1974 Dec 2 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1974-W1504	2442384.27	1974 Dec 2 1826:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1974-W1505	2442384.39	1974 Dec 2 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	64	-	-
1974-W1507	2442385.21	1974 Dec 3 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-A56	2442385.33	1974 Dec 3 1958:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	45	-	-
1974-W1508	2442385.38	1974 Dec 3 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1509	2442385.56	1974 Dec 4 0119:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1510	2442386.08	1974 Dec 4 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	67	-	-
1974-W1511	2442386.10	1974 Dec 4 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	60	-	-
1974-W1512	2442386.12	1974 Dec 4 1459:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1974-W1513	2442386.19	1974 Dec 4 1633:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1974-W1514	2442386.21	1974 Dec 4 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-Y369	2442386.23	1974 Dec 4 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	97	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1515	2442386.35	1974 Dec 4 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1974-Y370	2442386.36	1974 Dec 4 2045:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1516	2442386.38	1974 Dec 4 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	54	-	-
1974-W1517	2442386.56	1974 Dec 5 0120:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1974-W1519	2442387.21	1974 Dec 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W1520	2442387.21	1974 Dec 5 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1521	2442387.38	1974 Dec 5 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	65	-	-
1974-W1522	2442388.05	1974 Dec 6 1314:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1523	2442388.14	1974 Dec 6 1515:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W1524	2442388.14	1974 Dec 6 1525:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1974-W1525	2442388.19	1974 Dec 6 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1974-W1526	2442388.19	1974 Dec 6 1640:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1527	2442388.20	1974 Dec 6 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1529	2442388.38	1974 Dec 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1974-W1530	2442388.42	1974 Dec 6 2159:59	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1531	2442390.38	1974 Dec 8 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W1532	2442391.19	1974 Dec 9 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1974-W1533	2442391.21	1974 Dec 9 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1534	2442391.27	1974 Dec 9 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1974-W1535	2442391.27	1974 Dec 9 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1974-W1536	2442391.35	1974 Dec 9 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1974-W1538	2442391.89	1974 Dec 10 0914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W1539	2442392.17	1974 Dec 10 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	57	-	-
1974-W1540	2442392.21	1974 Dec 10 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1541	2442392.25	1974 Dec 10 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	65	-	-
1974-W1542	2442392.38	1974 Dec 10 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W1543	2442392.43	1974 Dec 10 2218:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1544	2442393.08	1974 Dec 11 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	62	-	-
1974-W1545	2442393.10	1974 Dec 11 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1974-W1546	2442393.17	1974 Dec 11 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1974-W1547	2442393.17	1974 Dec 11 1606:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	67	-	-
1974-W1548	2442393.23	1974 Dec 11 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W1549	2442393.38	1974 Dec 11 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	60	-	-
1974-Y374	2442393.38	1974 Dec 11 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1550	2442393.39	1974 Dec 11 2121:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1551	2442393.57	1974 Dec 12 0146:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1552	2442393.90	1974 Dec 12 0940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	66	-	-
1974-W1553	2442394.10	1974 Dec 12 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	63	-	-
1974-W1554	2442394.16	1974 Dec 12 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W1555	2442394.25	1974 Dec 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1556	2442394.42	1974 Dec 12 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1557	2442394.42	1974 Dec 12 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W1559	2442394.71	1974 Dec 13 0501:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1560	2442395.14	1974 Dec 13 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W1562	2442395.34	1974 Dec 13 2010:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	68	-	-
1974-W1563	2442395.38	1974 Dec 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-W1564	2442395.38	1974 Dec 13 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1974-W1565	2442395.45	1974 Dec 13 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1974-W1566	2442395.47	1974 Dec 13 2320:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1974-W1567	2442395.50	1974 Dec 13 2355:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1569	2442398.23	1974 Dec 16 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	59	-	-
1974-W1570	2442398.27	1974 Dec 16 1822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1974-W1571	2442398.35	1974 Dec 16 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1572	2442398.36	1974 Dec 16 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1974-W1573	2442398.38	1974 Dec 16 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	68	-	-
1974-W1574	2442398.38	1974 Dec 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1575	2442398.90	1974 Dec 17 0943:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	64	-	-
1974-W1576	2442399.10	1974 Dec 17 1423:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1974-W1578	2442399.21	1974 Dec 17 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1974-W1579	2442399.38	1974 Dec 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	61	-	-
1974-W1580	2442399.48	1974 Dec 17 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1974-W1581	2442400.01	1974 Dec 18 1210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1582	2442400.09	1974 Dec 18 1403:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1974-W1584	2442400.21	1974 Dec 18 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	74	-	-
1974-W1585	2442400.22	1974 Dec 18 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1974-W1586	2442400.33	1974 Dec 18 2001:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	65	-	-
1974-W1587	2442400.38	1974 Dec 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1974-W1588	2442400.56	1974 Dec 19 0122:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1974-W1589	2442400.95	1974 Dec 19 1052:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	ASC	-	-	-	60	-	-
1974-W1591	2442401.21	1974 Dec 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1592	2442401.38	1974 Dec 19 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1974-W1593	2442402.10	1974 Dec 20 1430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	56	-	-
1974-W1594	2442402.17	1974 Dec 20 1609:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	52	-	-
1974-W1596	2442402.21	1974 Dec 20 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-Y379	2442402.23	1974 Dec 20 1730:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	100	-	-
1974-W1597	2442402.25	1974 Dec 20 1759:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1974-W1598	2442402.38	1974 Dec 20 2100:00	Rocketsonde	-	-	Met Para,Datasonde	-	-	-	PF	-	-	-	64	-	-
1974-W1599	2442402.38	1974 Dec 20 2113:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1600	2442402.55	1974 Dec 21 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1601	2442405.11	1974 Dec 23 1437:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	55	-	-
1974-W1602	2442405.12	1974 Dec 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	56	-	-
1974-W1604	2442405.21	1974 Dec 23 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1974-W1605	2442405.25	1974 Dec 23 1758:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1606	2442405.38	1974 Dec 23 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1607	2442405.55	1974 Dec 24 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	77	-	-
1974-W1608	2442406.08	1974 Dec 24 1357:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W1610	2442406.35	1974 Dec 24 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1611	2442408.38	1974 Dec 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1974-W1612	2442409.12	1974 Dec 27 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	53	-	-
1974-W1613	2442409.36	1974 Dec 27 2034:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1974-Y385	2442409.37	1974 Dec 27 2049:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1974-W1614	2442409.38	1974 Dec 27 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1974-W1615	2442409.55	1974 Dec 28 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	72	-	-
1974-W1616	2442412.12	1974 Dec 30 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHER	-	-	-	61	-	-
1974-W1618	2442412.17	1974 Dec 30 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1974-W1619	2442412.19	1974 Dec 30 1627:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1974-W1620	2442412.21	1974 Dec 30 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	68	-	-
1974-W1621	2442412.23	1974 Dec 30 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	67	-	-
1974-W1622	2442412.27	1974 Dec 30 1829:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1974-W1623	2442413.17	1974 Dec 31 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	62	-	-
1974-W1625	2442413.23	1974 Dec 31 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W06	2442415.21	1975 Jan 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W1016	2442666.53	1975 Sep 11 0040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W1017	2442667.96	1975 Sep 12 1106:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W1018	2442668.14	1975 Sep 12 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W1019	2442668.19	1975 Sep 12 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W1021	2442668.25	1975 Sep 12 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1022	2442668.36	1975 Sep 12 2045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-Y277	2442668.40	1975 Sep 12 2137:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-W1023	2442668.42	1975 Sep 12 2200:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	63	-	-
1975-W1024	2442670.96	1975 Sep 15 1104:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W1025	2442671.14	1975 Sep 15 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W1027	2442671.18	1975 Sep 15 1617:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1975-W1028	2442671.18	1975 Sep 15 1619:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	73	-	-
1975-W1029	2442671.44	1975 Sep 15 2234:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W1030	2442671.55	1975 Sep 16 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1975-W1031	2442672.15	1975 Sep 16 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1975-W1032	2442672.16	1975 Sep 16 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W1033	2442672.28	1975 Sep 16 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	74	-	-
1975-Y278	2442672.40	1975 Sep 16 2130:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W1034	2442672.42	1975 Sep 16 2210:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	65	-	-
1975-W1035	2442673.03	1975 Sep 17 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1036	2442673.05	1975 Sep 17 1317:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W1037	2442673.10	1975 Sep 17 1425:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	56	-	-
1975-W1038	2442673.11	1975 Sep 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1975-W1039	2442673.11	1975 Sep 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1975-W1040	2442673.13	1975 Sep 17 1509:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1041	2442673.19	1975 Sep 17 1634:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-Y283	2442673.53	1975 Sep 18 0037:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1975-W1043	2442674.08	1975 Sep 18 1355:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W1044	2442674.25	1975 Sep 18 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-Y285	2442675.15	1975 Sep 19 1533:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-W1045	2442675.18	1975 Sep 19 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	60	-	-
1975-W1046	2442675.19	1975 Sep 19 1630:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	50	-	-
1975-W1048	2442675.41	1975 Sep 19 2148:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-W1049	2442676.28	1975 Sep 20 1837:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1050	2442677.25	1975 Sep 21 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	50	-	-
1975-W1051	2442677.96	1975 Sep 22 1100:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W1052	2442678.13	1975 Sep 22 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1975-W1053	2442678.15	1975 Sep 22 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W1054	2442678.15	1975 Sep 22 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1975-W1056	2442678.26	1975 Sep 22 1819:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1975-W1057	2442679.00	1975 Sep 23 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W1058	2442679.29	1975 Sep 23 1900:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	62	-	-
1975-W1059	2442679.52	1975 Sep 24 0033:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W1060	2442680.00	1975 Sep 24 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1975-W1061	2442680.04	1975 Sep 24 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1062	2442680.10	1975 Sep 24 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W1063	2442680.16	1975 Sep 24 1549:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1975-W1064	2442680.19	1975 Sep 24 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W1066	2442680.26	1975 Sep 24 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1067	2442680.31	1975 Sep 24 1926:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W1068	2442680.45	1975 Sep 24 2243:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	51	-	-
1975-W1069	2442680.55	1975 Sep 25 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	77	-	-
1975-W1070	2442680.55	1975 Sep 25 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	70	-	-
1975-W1071	2442680.96	1975 Sep 25 1055:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W1072	2442681.22	1975 Sep 25 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1073	2442681.26	1975 Sep 25 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	70	-	-
1975-W1074	2442681.27	1975 Sep 25 1827:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1975-W1075	2442681.40	1975 Sep 25 2133:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W1076	2442681.46	1975 Sep 25 2301:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W1077	2442681.98	1975 Sep 26 1125:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W1079	2442682.08	1975 Sep 26 1354:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1080	2442682.11	1975 Sep 26 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W1081	2442682.16	1975 Sep 26 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	58	-	-
1975-W1083	2442682.21	1975 Sep 26 1658:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	61	-	-
1975-W1084	2442685.04	1975 Sep 29 1256:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1085	2442685.20	1975 Sep 29 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1975-W1086	2442685.20	1975 Sep 29 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1975-W1087	2442685.24	1975 Sep 29 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1088	2442685.30	1975 Sep 29 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W1089	2442685.42	1975 Sep 29 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W1098	2442685.54	1975 Sep 30 0059:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-Y293	2442686.45	1975 Sep 30 2252:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-A54	2442687.08	1975 Oct 1 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	45	-	-
1975-W1099	2442687.13	1975 Oct 1 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W1100	2442687.17	1975 Oct 1 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1975-W1101	2442687.22	1975 Oct 1 1713:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W1103	2442687.38	1975 Oct 1 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	54	-	-
1975-W1104	2442687.55	1975 Oct 2 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	74	-	-
1975-W1105	2442688.20	1975 Oct 2 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1106	2442688.35	1975 Oct 2 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-Y298	2442688.38	1975 Oct 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	87	-	-
1975-W1107	2442689.07	1975 Oct 3 1341:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W1108	2442689.10	1975 Oct 3 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1975-W1110	2442689.14	1975 Oct 3 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1975-W1111	2442689.15	1975 Oct 3 1533:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1975-W1112	2442689.21	1975 Oct 3 1656:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1113	2442689.30	1975 Oct 3 1909:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W1114	2442689.46	1975 Oct 3 2257:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W1115	2442689.55	1975 Oct 4 0118:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-Y299	2442690.21	1975 Oct 4 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	86	-	-
1975-W1116	2442690.29	1975 Oct 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W1117	2442690.32	1975 Oct 4 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W1118	2442691.25	1975 Oct 5 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1119	2442692.15	1975 Oct 6 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	64	-	-
1975-W1120	2442692.19	1975 Oct 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W1122	2442692.26	1975 Oct 6 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	57	-	-
1975-W1123	2442692.85	1975 Oct 7 0830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	69	-	-
1975-W1124	2442692.90	1975 Oct 7 0937:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W1125	2442692.93	1975 Oct 7 1014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1126	2442693.19	1975 Oct 7 1630:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W1127	2442694.06	1975 Oct 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W1128	2442694.10	1975 Oct 8 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1975-W1129	2442694.18	1975 Oct 8 1614:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	57	-	-
1975-W1131	2442694.23	1975 Oct 8 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	71	-	-
1975-W1132	2442694.25	1975 Oct 8 1804:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1133	2442694.32	1975 Oct 8 1945:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-A55	2442694.48	1975 Oct 8 2330:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	49	-	-
1975-W1134	2442695.17	1975 Oct 9 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1975-W1135	2442695.26	1975 Oct 9 1810:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1136	2442695.42	1975 Oct 9 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1137	2442696.08	1975 Oct 10 1401:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-A56	2442696.14	1975 Oct 10 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1975-W1138	2442696.14	1975 Oct 10 1515:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	75	-	-
1975-W1140	2442696.18	1975 Oct 10 1619:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	76	-	-
1975-W1141	2442696.31	1975 Oct 10 1920:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1975-Y304	2442696.44	1975 Oct 10 2234:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	89	-	-
1975-W1142	2442696.46	1975 Oct 10 2257:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	67	-	-
1975-W1143	2442698.89	1975 Oct 13 0923:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W1144	2442699.08	1975 Oct 13 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1975-W1145	2442699.15	1975 Oct 13 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	59	-	-
1975-A57	2442699.49	1975 Oct 13 2345:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	48	-	-
1975-W1146	2442699.83	1975 Oct 14 0800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1975-W1147	2442700.17	1975 Oct 14 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1975-W1148	2442700.25	1975 Oct 14 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1975-W1149	2442700.33	1975 Oct 14 2001:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W1150	2442701.07	1975 Oct 15 1335:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1975-W1151	2442701.07	1975 Oct 15 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W1152	2442701.08	1975 Oct 15 1356:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1153	2442701.17	1975 Oct 15 1609:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1975-W1155	2442701.23	1975 Oct 15 1737:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1975-W1156	2442701.31	1975 Oct 15 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1157	2442702.02	1975 Oct 16 1222:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W1158	2442702.18	1975 Oct 16 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W1159	2442702.26	1975 Oct 16 1818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1975-W1160	2442702.26	1975 Oct 16 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W1161	2442702.43	1975 Oct 16 2218:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W1162	2442703.08	1975 Oct 17 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1975-W1163	2442703.15	1975 Oct 17 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W1164	2442703.15	1975 Oct 17 1534:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	61	-	-
1975-W1165	2442703.27	1975 Oct 17 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	71	-	-
1975-Y309	2442703.46	1975 Oct 17 2303:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	85	-	-
1975-W1166	2442703.48	1975 Oct 17 2327:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	77	-	-
1975-W1167	2442706.08	1975 Oct 20 1352:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W1168	2442706.15	1975 Oct 20 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	68	-	-
1975-W1170	2442706.22	1975 Oct 20 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	66	-	-
1975-W1171	2442706.23	1975 Oct 20 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1975-W1172	2442706.26	1975 Oct 20 1813:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	75	-	-
1975-W1173	2442706.29	1975 Oct 20 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1174	2442706.52	1975 Oct 21 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W1175	2442706.93	1975 Oct 21 1024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	62	-	-
1975-W1176	2442707.15	1975 Oct 21 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1975-W1177	2442707.24	1975 Oct 21 1751:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1975-W1178	2442707.43	1975 Oct 21 2218:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1179	2442708.06	1975 Oct 22 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1180	2442708.08	1975 Oct 22 1356:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1975-W1181	2442708.09	1975 Oct 22 1408:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y311	2442708.11	1975 Oct 22 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	88	-	-
1975-W1182	2442708.12	1975 Oct 22 1455:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	53	-	-
1975-W1184	2442708.15	1975 Oct 22 1542:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W1185	2442708.27	1975 Oct 22 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	65	-	-
1975-W1186	2442708.33	1975 Oct 22 1949:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1187	2442708.48	1975 Oct 22 2332:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	63	-	-
1975-W1188	2442708.48	1975 Oct 22 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1975-W1189	2442708.50	1975 Oct 23 0000:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	69	-	-
1975-W1190	2442709.22	1975 Oct 23 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1191	2442709.40	1975 Oct 23 2131:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	62	-	-
1975-W1192	2442709.52	1975 Oct 24 0033:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1975-W1193	2442710.03	1975 Oct 24 1240:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1194	2442710.14	1975 Oct 24 1520:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1975-W1195	2442710.18	1975 Oct 24 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1975-W1197	2442710.22	1975 Oct 24 1711:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1975-W1198	2442710.24	1975 Oct 24 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W1199	2442710.27	1975 Oct 24 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1200	2442710.41	1975 Oct 24 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	51	-	-
1975-W1201	2442713.15	1975 Oct 27 1530:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	69	-	-
1975-W1203	2442713.91	1975 Oct 28 0944:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1975-W1204	2442714.23	1975 Oct 28 1731:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W1205	2442714.24	1975 Oct 28 1749:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1206	2442715.03	1975 Oct 29 1236:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-W1207	2442715.11	1975 Oct 29 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	62	-	-
1975-W1208	2442715.19	1975 Oct 29 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1975-W1209	2442715.21	1975 Oct 29 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1975-W1210	2442715.22	1975 Oct 29 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W1211	2442715.23	1975 Oct 29 1725:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	70	-	-
1975-W1212	2442715.26	1975 Oct 29 1818:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1975-W1213	2442715.41	1975 Oct 29 2151:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1975-W1214	2442715.48	1975 Oct 29 2335:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	52	-	-
1975-W1215	2442716.19	1975 Oct 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W1216	2442716.20	1975 Oct 30 1647:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	56	-	-
1975-W1217	2442716.42	1975 Oct 30 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W1218	2442716.52	1975 Oct 31 0030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1975-W1220	2442717.13	1975 Oct 31 1508:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1975-W1221	2442717.16	1975 Oct 31 1549:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	75	-	-
1975-W1222	2442717.23	1975 Oct 31 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1975-W1223	2442717.26	1975 Oct 31 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-Y319	2442717.39	1975 Oct 31 2126:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	90	-	-
1975-W1224	2442717.41	1975 Oct 31 2153:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W1225	2442720.02	1975 Nov 3 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1226	2442720.19	1975 Nov 3 1631:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	56	-	-
1975-W1228	2442720.19	1975 Nov 3 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1975-W1229	2442720.32	1975 Nov 3 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	56	-	-
1975-W1230	2442720.50	1975 Nov 4 0002:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	71	-	-
1975-W1231	2442721.14	1975 Nov 4 1514:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	76	-	-
1975-W1233	2442721.22	1975 Nov 4 1720:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-A60	2442721.24	1975 Nov 4 1738:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	44	-	-
1975-W1234	2442721.33	1975 Nov 4 1955:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	58	-	-
1975-W1235	2442721.33	1975 Nov 4 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	59	-	-
1975-W1236	2442722.04	1975 Nov 5 1255:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W1237	2442722.16	1975 Nov 5 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	67	-	-
1975-A61	2442722.19	1975 Nov 5 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	41	-	-
1975-W1239	2442722.21	1975 Nov 5 1701:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W1240	2442722.22	1975 Nov 5 1710:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1975-W1241	2442722.30	1975 Nov 5 1914:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	70	-	-
1975-W1242	2442722.40	1975 Nov 5 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1243	2442723.02	1975 Nov 6 1233:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1975-W1244	2442723.15	1975 Nov 6 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	78	-	-
1975-Y324	2442723.19	1975 Nov 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	94	-	-
1975-W1246	2442723.31	1975 Nov 6 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1247	2442723.31	1975 Nov 6 1932:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1975-W1248	2442724.11	1975 Nov 7 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	75	-	-
1975-W1249	2442724.16	1975 Nov 7 1545:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	60	-	-
1975-W1250	2442724.16	1975 Nov 7 1545:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	65	-	-
1975-W1251	2442724.19	1975 Nov 7 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W1253	2442724.35	1975 Nov 7 2022:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-Y325	2442724.38	1975 Nov 7 2106:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W1254	2442724.43	1975 Nov 7 2224:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-Y326	2442724.55	1975 Nov 8 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1975-W1255	2442727.04	1975 Nov 10 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1256	2442727.19	1975 Nov 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W1258	2442727.23	1975 Nov 10 1736:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	73	-	-
1975-W1259	2442727.29	1975 Nov 10 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1260	2442727.42	1975 Nov 10 2209:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1261	2442727.63	1975 Nov 11 0311:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	69	-	-
1975-W1262	2442728.16	1975 Nov 11 1549:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	74	-	-
1975-W1264	2442729.06	1975 Nov 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W1265	2442729.16	1975 Nov 12 1555:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1975-W1266	2442729.18	1975 Nov 12 1622:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	66	-	-
1975-W1267	2442729.20	1975 Nov 12 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1975-W1268	2442729.22	1975 Nov 12 1723:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1975-W1270	2442729.33	1975 Nov 12 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W1271	2442729.42	1975 Nov 12 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1272	2442729.55	1975 Nov 13 0114:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W1273	2442730.15	1975 Nov 13 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	71	-	-
1975-W1275	2442730.25	1975 Nov 13 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1276	2442730.34	1975 Nov 13 2008:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	53	-	-
1975-W1277	2442731.15	1975 Nov 14 1540:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	66	-	-
1975-Y331	2442731.19	1975 Nov 14 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	93	-	-
1975-W1279	2442731.19	1975 Nov 14 1632:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	58	-	-
1975-W1280	2442731.23	1975 Nov 14 1726:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-Y332	2442731.40	1975 Nov 14 2134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1975-W1281	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1975-W1282	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	62	-	-
1975-W1283	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1975-W1284	2442734.39	1975 Nov 17 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W1285	2442734.45	1975 Nov 17 2252:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	58	-	-
1975-W1288	2442735.19	1975 Nov 18 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W1289	2442736.11	1975 Nov 19 1432:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	59	-	-
1975-W1291	2442736.19	1975 Nov 19 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W1292	2442736.19	1975 Nov 19 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1294	2442736.23	1975 Nov 19 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	63	-	-
1975-W1296	2442736.27	1975 Nov 19 1833:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	70	-	-
1975-Y338	2442736.38	1975 Nov 19 2100:00	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	88	-	-
1975-W1297	2442736.39	1975 Nov 19 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	74	-	-
1975-W1298	2442736.54	1975 Nov 20 0100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	78	-	-
1975-W1299	2442737.03	1975 Nov 20 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1975-W1301	2442737.27	1975 Nov 20 1832:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	58	-	-
1975-W1302	2442737.57	1975 Nov 21 0134:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W1304	2442738.25	1975 Nov 21 1800:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1305	2442740.90	1975 Nov 24 0934:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1975-W1307	2442741.19	1975 Nov 24 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W1308	2442741.23	1975 Nov 24 1737:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W1310	2442742.23	1975 Nov 25 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W1311	2442742.26	1975 Nov 25 1814:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	59	-	-
1975-W1312	2442743.08	1975 Nov 26 1401:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1975-W1313	2442743.15	1975 Nov 26 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W1315	2442743.18	1975 Nov 26 1618:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W1316	2442743.19	1975 Nov 26 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1975-Y345	2442743.25	1975 Nov 26 1757:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	87	-	-
1975-W1317	2442743.27	1975 Nov 26 1831:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W1318	2442743.33	1975 Nov 26 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W1319	2442744.23	1975 Nov 27 1725:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-A66	2442748.19	1975 Dec 1 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	49	-	-
1975-W1323	2442748.27	1975 Dec 1 1822:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-A67	2442748.27	1975 Dec 1 1830:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	19	-	-
1975-W1324	2442748.29	1975 Dec 1 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-A68	2442748.31	1975 Dec 1 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	28	-	-
1975-W1325	2442748.32	1975 Dec 1 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1975-W1326	2442748.33	1975 Dec 1 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	55	-	-
1975-W1327	2442748.38	1975 Dec 1 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-W1328	2442749.00	1975 Dec 2 1200:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W1329	2442749.04	1975 Dec 2 1259:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	56	-	-
1975-W1330	2442749.07	1975 Dec 2 1334:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	55	-	-
1975-W1331	2442749.17	1975 Dec 2 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1332	2442749.21	1975 Dec 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W1333	2442749.21	1975 Dec 2 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	52	-	-
1975-W1334	2442749.23	1975 Dec 2 1729:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	72	-	-
1975-W1335	2442749.29	1975 Dec 2 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1337	2442749.40	1975 Dec 2 2136:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	73	-	-
1975-W1338	2442749.42	1975 Dec 2 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	57	-	-
1975-W1339	2442749.44	1975 Dec 2 2240:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	55	-	-
1975-A70	2442749.53	1975 Dec 3 0045:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	38	-	-
1975-W1340	2442750.10	1975 Dec 3 1424:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	56	-	-
1975-W1342	2442750.19	1975 Dec 3 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1975-W1344	2442750.29	1975 Dec 3 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1345	2442750.32	1975 Dec 3 1940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W1346	2442750.46	1975 Dec 3 2300:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	56	-	-
1975-W1348	2442751.29	1975 Dec 4 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-W1350	2442752.15	1975 Dec 5 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1975-W1351	2442752.15	1975 Dec 5 1540:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1975-Y352	2442752.19	1975 Dec 5 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1975-W1352	2442752.29	1975 Dec 5 1859:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1353	2442752.42	1975 Dec 5 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-A71	2442752.45	1975 Dec 5 2253:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	49	-	-
1975-W1354	2442755.15	1975 Dec 8 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1975-W1355	2442755.19	1975 Dec 8 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	67	-	-
1975-W1356	2442755.23	1975 Dec 8 1725:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	67	-	-
1975-A72	2442755.24	1975 Dec 8 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	32	-	-
1975-A73	2442755.28	1975 Dec 8 1845:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	33	-	-
1975-W1358	2442755.29	1975 Dec 8 1901:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	73	-	-
1975-A74	2442755.32	1975 Dec 8 1944:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	33	-	-
1975-W1360	2442756.24	1975 Dec 9 1740:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	68	-	-
1975-W1361	2442756.25	1975 Dec 9 1801:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W1362	2442756.43	1975 Dec 9 2219:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W1363	2442757.15	1975 Dec 10 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1975-W1364	2442757.15	1975 Dec 10 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W1365	2442757.17	1975 Dec 10 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1975-W1366	2442757.22	1975 Dec 10 1717:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	69	-	-
1975-W1367	2442757.23	1975 Dec 10 1730:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-Y358	2442757.50	1975 Dec 10 2357:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1975-W1369	2442757.71	1975 Dec 11 0500:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W1370	2442758.15	1975 Dec 11 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1975-W1372	2442758.23	1975 Dec 11 1726:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W1373	2442758.38	1975 Dec 11 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	66	-	-
1975-Y360	2442758.65	1975 Dec 12 0336:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	86	-	-
1975-W1374	2442758.69	1975 Dec 12 0430:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	66	-	-
1975-Y361	2442758.71	1975 Dec 12 0509:00	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-W1375	2442758.74	1975 Dec 12 0542:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	72	-	-
1975-W1376	2442759.14	1975 Dec 12 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1975-Y362	2442759.15	1975 Dec 12 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1975-W1377	2442759.19	1975 Dec 12 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	63	-	-
1975-W1379	2442759.45	1975 Dec 12 2246:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	60	-	-
1975-Y363	2442759.56	1975 Dec 13 0130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	81	-	-
1975-W1380	2442759.59	1975 Dec 13 0215:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	50	-	-
1975-W1381	2442760.60	1975 Dec 14 0230:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	65	-	-
1975-W1382	2442762.11	1975 Dec 15 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1975-W1383	2442762.15	1975 Dec 15 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W1384	2442762.15	1975 Dec 15 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1385	2442762.20	1975 Dec 15 1643:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	51	-	-
1975-W1386	2442762.26	1975 Dec 15 1820:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	61	-	-
1975-W1387	2442762.41	1975 Dec 15 2153:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	62	-	-
1975-Y364	2442762.46	1975 Dec 15 2255:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1975-W1388	2442762.58	1975 Dec 16 0200:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	72	-	-
1975-W1390	2442763.31	1975 Dec 16 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W1391	2442763.45	1975 Dec 16 2243:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	59	-	-
1975-W1392	2442763.68	1975 Dec 17 0414:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	68	-	-
1975-Y366	2442763.98	1975 Dec 17 1130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	82	-	-
1975-W1393	2442764.09	1975 Dec 17 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	59	-	-
1975-W1394	2442764.15	1975 Dec 17 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1975-W1395	2442764.21	1975 Dec 17 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1975-W1396	2442764.28	1975 Dec 17 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-Y370	2442764.43	1975 Dec 17 2214:59	Rocketsonde	-	-	Met Sphere	-	-	-	KAU	-	-	-	87	-	-
1975-W1398	2442764.45	1975 Dec 17 2241:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	74	-	-
1975-W1399	2442764.52	1975 Dec 18 0034:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W1400	2442764.64	1975 Dec 18 0324:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	73	-	-
1975-W1401	2442765.15	1975 Dec 18 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1975-W1402	2442765.21	1975 Dec 18 1703:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	64	-	-
1975-W1404	2442765.48	1975 Dec 18 2333:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KAU	-	-	-	56	-	-
1975-W1405	2442766.15	1975 Dec 19 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1975-W1406	2442766.15	1975 Dec 19 1530:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	72	-	-
1975-W1407	2442766.19	1975 Dec 19 1637:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	61	-	-
1975-W1408	2442766.21	1975 Dec 19 1700:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-W1409	2442766.22	1975 Dec 19 1715:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	59	-	-
1975-W1411	2442766.59	1975 Dec 20 0210:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	79	-	-
1975-W1412	2442767.23	1975 Dec 20 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1975-W1413	2442768.43	1975 Dec 21 2219:59	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	58	-	-
1975-W1415	2442768.65	1975 Dec 22 0330:00	Rocketsonde	-	-	Starute,AN/DMQ-9-	-	-	-	THU	-	-	-	50	-	-
1975-Y376	2442769.15	1975 Dec 22 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	95	-	-
1975-W1416	2442769.24	1975 Dec 22 1745:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	70	-	-
1975-W1417	2442769.28	1975 Dec 22 1840:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	65	-	-
1975-Y377	2442769.29	1975 Dec 22 1859:59	Rocketsonde	-	-	Met Sphere	-	-	-	PM	-	-	-	85	-	-
1975-Y378	2442769.44	1975 Dec 22 2227:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	80	-	-
1975-W1420	2442770.20	1975 Dec 23 1644:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PRIM	-	-	-	67	-	-
1975-W1421	2442770.21	1975 Dec 23 1655:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-Y383	2442771.15	1975 Dec 24 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	94	-	-
1975-W1422	2442771.19	1975 Dec 24 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	60	-	-
1975-W1423	2442771.21	1975 Dec 24 1657:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1975-W1425	2442771.50	1975 Dec 24 2357:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	65	-	-
1975-W1426	2442773.45	1975 Dec 26 2249:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1975-Y387	2442776.15	1975 Dec 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	96	-	-
1975-W1427	2442776.17	1975 Dec 29 1559:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	69	-	-
1975-W1428	2442776.30	1975 Dec 29 1907:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	57	-	-
1975-W1429	2442776.39	1975 Dec 29 2125:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	SHEM	-	-	-	54	-	-
1975-W1430	2442776.52	1975 Dec 30 0024:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	KMR	-	-	-	76	-	-
1975-A77	2442778.15	1975 Dec 31 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	0	-	-
1975-A78	2442778.19	1975 Dec 31 1630:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	WS	-	-	-	48	-	-
1975-W1433	2442778.31	1975 Dec 31 1930:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PM	-	-	-	60	-	-
1976-W01	2442778.58	1976 Jan 1 0152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W991	2442979.10	1976 Jul 19 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	55	-	-
1976-W992	2442979.23	1976 Jul 19 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W993	2442979.23	1976 Jul 19 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W994	2442979.25	1976 Jul 19 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1976-W995	2442979.42	1976 Jul 19 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-Y290	2442979.49	1976 Jul 19 2347:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W996	2442980.01	1976 Jul 20 1211:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-Y291	2442980.11	1976 Jul 20 1445:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W997	2442980.12	1976 Jul 20 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1976-W998	2442980.41	1976 Jul 20 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W999	2442981.07	1976 Jul 21 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W1000	2442981.11	1976 Jul 21 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	54	-	-
1976-W1001	2442981.11	1976 Jul 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1002	2442981.15	1976 Jul 21 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1976-W1003	2442981.21	1976 Jul 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W1004	2442981.21	1976 Jul 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W1006	2442981.23	1976 Jul 21 1735:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1007	2442981.24	1976 Jul 21 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1008	2442981.26	1976 Jul 21 1808:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1009	2442981.27	1976 Jul 21 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1976-W1010	2442981.33	1976 Jul 21 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-Y298	2442981.40	1976 Jul 21 2131:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1976-W1011	2442981.40	1976 Jul 21 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-A45	2442981.49	1976 Jul 21 2343:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1976-Y299	2442981.55	1976 Jul 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1976-W1012	2442982.17	1976 Jul 22 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1976-W1013	2442982.19	1976 Jul 22 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1976-W1014	2442982.20	1976 Jul 22 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	50	-	-
1976-W1015	2442982.49	1976 Jul 22 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-A46	2442983.01	1976 Jul 23 1212:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	46	-	-
1976-W1016	2442983.07	1976 Jul 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W1017	2442983.10	1976 Jul 23 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1976-W1018	2442983.15	1976 Jul 23 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W1019	2442983.34	1976 Jul 23 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1020	2442986.10	1976 Jul 26 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1021	2442986.13	1976 Jul 26 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1022	2442986.13	1976 Jul 26 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1976-W1023	2442986.26	1976 Jul 26 1818:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-W1024	2442986.32	1976 Jul 26 1935:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	61	-	-
1976-Y303	2442986.48	1976 Jul 26 2326:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1025	2442986.99	1976 Jul 27 1142:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1026	2442987.19	1976 Jul 27 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	52	-	-
1976-W1027	2442987.20	1976 Jul 27 1654:59	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1028	2442987.33	1976 Jul 27 1953:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1029	2442987.42	1976 Jul 27 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1031	2442987.48	1976 Jul 27 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1032	2442988.02	1976 Jul 28 1232:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W1033	2442988.04	1976 Jul 28 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1976-W1034	2442988.06	1976 Jul 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1035	2442988.13	1976 Jul 28 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1036	2442988.18	1976 Jul 28 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W1038	2442988.21	1976 Jul 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1039	2442988.23	1976 Jul 28 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	60	-	-
1976-Y307	2442988.25	1976 Jul 28 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1040	2442988.26	1976 Jul 28 1814:59	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	51	-	-
1976-W1041	2442988.27	1976 Jul 28 1822:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1976-W1042	2442988.39	1976 Jul 28 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1976-W1043	2442988.39	1976 Jul 28 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W1044	2442988.39	1976 Jul 28 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1045	2442989.10	1976 Jul 29 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	63	-	-
1976-W1046	2442989.12	1976 Jul 29 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-W1047	2442989.19	1976 Jul 29 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	51	-	-
1976-Y319	2442989.50	1976 Jul 29 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1976-W1048	2442990.02	1976 Jul 30 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1049	2442990.11	1976 Jul 30 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1976-W1050	2442990.14	1976 Jul 30 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W1051	2442990.19	1976 Jul 30 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1052	2442990.19	1976 Jul 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1053	2442990.38	1976 Jul 30 2112:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1976-W1062	2442991.31	1976 Jul 31 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	58	-	-
1976-W1063	2442993.02	1976 Aug 2 1235:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W1064	2442993.07	1976 Aug 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W1065	2442993.10	1976 Aug 2 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1066	2442993.16	1976 Aug 2 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W1067	2442993.22	1976 Aug 2 1723:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	57	-	-
1976-W1068	2442993.23	1976 Aug 2 1733:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1069	2442993.26	1976 Aug 2 1810:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1070	2442993.33	1976 Aug 2 2002:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1071	2442993.47	1976 Aug 2 2315:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1072	2442994.19	1976 Aug 3 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W1073	2442995.05	1976 Aug 4 1304:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1074	2442995.08	1976 Aug 4 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1976-A47	2442995.10	1976 Aug 4 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	48	-	-
1976-W1075	2442995.11	1976 Aug 4 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1076	2442995.13	1976 Aug 4 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-W1077	2442995.19	1976 Aug 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1976-W1078	2442995.19	1976 Aug 4 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W1079	2442995.19	1976 Aug 4 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1976-Y335	2442995.21	1976 Aug 4 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1081	2442995.22	1976 Aug 4 1710:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-Y336	2442995.33	1976 Aug 4 1956:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1976-W1082	2442995.34	1976 Aug 4 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	74	-	-
1976-W1083	2442995.38	1976 Aug 4 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	50	-	-
1976-W1084	2442995.41	1976 Aug 4 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-Y337	2442995.42	1976 Aug 4 2210:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1976-Y338	2442995.55	1976 Aug 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1085	2442996.01	1976 Aug 5 1220:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1086	2442996.17	1976 Aug 5 1602:59	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	63	-	-
1976-Y340	2442996.50	1976 Aug 5 2354:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1087	2442997.11	1976 Aug 6 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1976-W1088	2442997.15	1976 Aug 6 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1089	2442997.19	1976 Aug 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1976-W1090	2442997.19	1976 Aug 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1092	2442997.21	1976 Aug 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W1093	2442997.25	1976 Aug 6 1800:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1094	2442997.36	1976 Aug 6 2032:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	53	-	-
1976-A48	2442997.37	1976 Aug 6 2059:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1976-W1095	2443000.07	1976 Aug 9 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1096	2443000.07	1976 Aug 9 1345:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1976-W1097	2443000.14	1976 Aug 9 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	57	-	-
1976-W1098	2443000.18	1976 Aug 9 1625:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1976-W1099	2443000.19	1976 Aug 9 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1976-W1100	2443000.20	1976 Aug 9 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1102	2443000.28	1976 Aug 9 1840:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1103	2443000.36	1976 Aug 9 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1104	2443000.41	1976 Aug 9 2151:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W1105	2443000.47	1976 Aug 9 2315:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1106	2443002.01	1976 Aug 11 1208:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1107	2443002.08	1976 Aug 11 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1108	2443002.10	1976 Aug 11 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1976-W1109	2443002.11	1976 Aug 11 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	53	-	-
1976-W1110	2443002.12	1976 Aug 11 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-Y348	2443002.16	1976 Aug 11 1555:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1976-W1111	2443002.18	1976 Aug 11 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1976-W1113	2443002.20	1976 Aug 11 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	50	-	-
1976-W1114	2443002.21	1976 Aug 11 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1115	2443002.25	1976 Aug 11 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-Y350	2443002.26	1976 Aug 11 1810:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1116	2443002.40	1976 Aug 11 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1117	2443002.42	1976 Aug 11 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1976-W1118	2443002.55	1976 Aug 12 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1120	2443002.64	1976 Aug 12 0322:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W1121	2443003.13	1976 Aug 12 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	56	-	-
1976-W1122	2443003.23	1976 Aug 12 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1123	2443003.50	1976 Aug 12 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1124	2443004.02	1976 Aug 13 1222:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1125	2443004.10	1976 Aug 13 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1976-W1126	2443004.12	1976 Aug 13 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1127	2443004.17	1976 Aug 13 1608:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W1129	2443004.21	1976 Aug 13 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W1130	2443004.23	1976 Aug 13 1729:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-W1131	2443004.35	1976 Aug 13 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1132	2443004.40	1976 Aug 13 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-A49	2443004.41	1976 Aug 13 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1976-W1134	2443007.12	1976 Aug 16 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1976-W1135	2443007.13	1976 Aug 16 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1976-W1136	2443007.14	1976 Aug 16 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W1137	2443007.23	1976 Aug 16 1724:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1976-W1138	2443007.25	1976 Aug 16 1800:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1139	2443007.32	1976 Aug 16 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	61	-	-
1976-W1140	2443007.41	1976 Aug 16 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W1141	2443007.51	1976 Aug 17 0021:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1142	2443007.74	1976 Aug 17 0545:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1143	2443007.85	1976 Aug 17 0820:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	55	-	-
1976-W1144	2443007.89	1976 Aug 17 0920:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1145	2443008.03	1976 Aug 17 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1146	2443008.12	1976 Aug 17 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1147	2443008.14	1976 Aug 17 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1148	2443008.23	1976 Aug 17 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1149	2443009.01	1976 Aug 18 1211:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1150	2443009.10	1976 Aug 18 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	57	-	-
1976-W1151	2443009.12	1976 Aug 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1976-W1152	2443009.13	1976 Aug 18 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1153	2443009.17	1976 Aug 18 1603:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W1154	2443009.17	1976 Aug 18 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	65	-	-
1976-W1155	2443009.21	1976 Aug 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	50	-	-
1976-W1156	2443009.22	1976 Aug 18 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	56	-	-
1976-Y356	2443009.24	1976 Aug 18 1749:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1976-W1157	2443009.25	1976 Aug 18 1800:00	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1158	2443009.32	1976 Aug 18 1940:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	75	-	-
1976-W1159	2443009.39	1976 Aug 18 2119:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1160	2443009.42	1976 Aug 18 2208:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1162	2443010.11	1976 Aug 19 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W1163	2443010.12	1976 Aug 19 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1164	2443010.13	1976 Aug 19 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1976-W1165	2443010.14	1976 Aug 19 1514:59	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	61	-	-
1976-W1166	2443010.20	1976 Aug 19 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1976-W1167	2443010.20	1976 Aug 19 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-A50	2443010.37	1976 Aug 19 2048:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1976-W1168	2443011.02	1976 Aug 20 1229:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W1169	2443011.12	1976 Aug 20 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1976-W1170	2443011.14	1976 Aug 20 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1172	2443011.34	1976 Aug 20 2004:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-Y384	2443011.39	1976 Aug 20 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1173	2443011.55	1976 Aug 21 0104:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1174	2443013.12	1976 Aug 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1175	2443014.07	1976 Aug 23 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1976-W1176	2443014.11	1976 Aug 23 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1976-W1177	2443014.13	1976 Aug 23 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1178	2443014.14	1976 Aug 23 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1180	2443014.18	1976 Aug 23 1619:59	Rocketsonde	-	-	Chaff,Arcasonde	-	-	-	WS	-	-	-	62	-	-
1976-W1181	2443014.32	1976 Aug 23 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1182	2443014.47	1976 Aug 23 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1184	2443015.18	1976 Aug 24 1623:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1185	2443015.20	1976 Aug 24 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1186	2443016.02	1976 Aug 25 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1976-W1187	2443016.07	1976 Aug 25 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	53	-	-
1976-W1188	2443016.10	1976 Aug 25 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W1189	2443016.10	1976 Aug 25 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	57	-	-
1976-W1191	2443016.14	1976 Aug 25 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1193	2443016.21	1976 Aug 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	54	-	-
1976-Y395	2443016.22	1976 Aug 25 1722:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1194	2443016.35	1976 Aug 25 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	71	-	-
1976-W1195	2443016.35	1976 Aug 25 2024:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1976-W1196	2443016.58	1976 Aug 26 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1198	2443017.12	1976 Aug 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1976-W1199	2443017.14	1976 Aug 26 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1201	2443018.03	1976 Aug 27 1244:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1202	2443018.14	1976 Aug 27 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1976-W1203	2443018.17	1976 Aug 27 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-W1204	2443018.18	1976 Aug 27 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W1206	2443018.19	1976 Aug 27 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1976-W1207	2443018.37	1976 Aug 27 2049:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1209	2443019.19	1976 Aug 28 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1210	2443020.13	1976 Aug 29 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1211	2443021.03	1976 Aug 30 1238:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1976-W1212	2443021.04	1976 Aug 30 1303:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1976-W1213	2443021.12	1976 Aug 30 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1214	2443021.23	1976 Aug 30 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W1215	2443021.38	1976 Aug 30 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1223	2443021.55	1976 Aug 31 0111:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1224	2443021.67	1976 Aug 31 0401:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W1225	2443021.74	1976 Aug 31 0541:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1226	2443022.13	1976 Aug 31 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1227	2443022.20	1976 Aug 31 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1228	2443022.34	1976 Aug 31 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1229	2443022.37	1976 Aug 31 2046:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W1230	2443022.38	1976 Aug 31 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W1231	2443023.07	1976 Sep 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1976-W1232	2443023.09	1976 Sep 1 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1976-W1233	2443023.12	1976 Sep 1 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	59	-	-
1976-W1234	2443023.13	1976 Sep 1 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1235	2443023.18	1976 Sep 1 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W1237	2443023.20	1976 Sep 1 1642:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-Y408	2443023.27	1976 Sep 1 1822:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1238	2443023.27	1976 Sep 1 1833:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1239	2443023.33	1976 Sep 1 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	71	-	-
1976-W1240	2443023.40	1976 Sep 1 2138:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1241	2443023.42	1976 Sep 1 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-Y409	2443023.58	1976 Sep 2 0149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1976-W1242	2443024.12	1976 Sep 2 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1243	2443024.18	1976 Sep 2 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1976-W1244	2443025.02	1976 Sep 3 1233:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-A53	2443025.11	1976 Sep 3 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	49	-	-
1976-W1245	2443025.12	1976 Sep 3 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1246	2443025.14	1976 Sep 3 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1976-W1247	2443025.18	1976 Sep 3 1618:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-A54	2443025.21	1976 Sep 3 1706:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	49	-	-
1976-Y411	2443025.24	1976 Sep 3 1752:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1976-W1248	2443025.46	1976 Sep 3 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W1249	2443025.51	1976 Sep 4 0015:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1251	2443026.13	1976 Sep 4 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1252	2443027.12	1976 Sep 5 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1253	2443028.12	1976 Sep 6 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1254	2443028.14	1976 Sep 6 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1976-W1255	2443029.14	1976 Sep 7 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1256	2443029.21	1976 Sep 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1257	2443029.22	1976 Sep 7 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1258	2443029.24	1976 Sep 7 1746:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-W1259	2443029.25	1976 Sep 7 1800:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	50	-	-
1976-W1260	2443029.34	1976 Sep 7 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	69	-	-
1976-W1261	2443029.36	1976 Sep 7 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1976-W1262	2443029.37	1976 Sep 7 2046:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W1263	2443029.50	1976 Sep 7 2355:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1265	2443030.05	1976 Sep 8 1304:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-A55	2443030.10	1976 Sep 8 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	46	-	-
1976-W1266	2443030.11	1976 Sep 8 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1267	2443030.12	1976 Sep 8 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1976-W1268	2443030.13	1976 Sep 8 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W1269	2443030.14	1976 Sep 8 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1976-W1270	2443030.17	1976 Sep 8 1601:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	55	-	-
1976-Y413	2443030.18	1976 Sep 8 1625:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1976-W1272	2443030.20	1976 Sep 8 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1976-Y414	2443030.21	1976 Sep 8 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1273	2443030.22	1976 Sep 8 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1274	2443030.33	1976 Sep 8 1952:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1275	2443030.40	1976 Sep 8 2133:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1276	2443030.44	1976 Sep 8 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W1278	2443031.03	1976 Sep 9 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1280	2443031.10	1976 Sep 9 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	56	-	-
1976-W1281	2443031.11	1976 Sep 9 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1976-W1283	2443031.25	1976 Sep 9 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-W1284	2443031.31	1976 Sep 9 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1285	2443031.51	1976 Sep 10 0011:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1286	2443032.12	1976 Sep 10 1448:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1976-A56	2443032.15	1976 Sep 10 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	31	-	-
1976-W1288	2443032.29	1976 Sep 10 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1289	2443032.33	1976 Sep 10 1951:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	63	-	-
1976-W1290	2443032.41	1976 Sep 10 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1291	2443035.01	1976 Sep 13 1209:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1292	2443035.12	1976 Sep 13 1456:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	55	-	-
1976-W1293	2443035.12	1976 Sep 13 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1294	2443035.24	1976 Sep 13 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1295	2443035.26	1976 Sep 13 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-W1296	2443035.33	1976 Sep 13 1953:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1976-W1297	2443036.15	1976 Sep 14 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1299	2443037.06	1976 Sep 15 1330:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1976-W1300	2443037.09	1976 Sep 15 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	57	-	-
1976-A57	2443037.12	1976 Sep 15 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	44	-	-
1976-W1301	2443037.14	1976 Sep 15 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W1302	2443037.14	1976 Sep 15 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W1304	2443037.19	1976 Sep 15 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-Y422	2443037.20	1976 Sep 15 1653:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1976-W1305	2443037.21	1976 Sep 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1976-W1306	2443037.23	1976 Sep 15 1731:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-Y423	2443037.25	1976 Sep 15 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1976-W1307	2443037.26	1976 Sep 15 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1308	2443037.34	1976 Sep 15 2009:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	63	-	-
1976-Y425	2443037.37	1976 Sep 15 2056:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1976-W1309	2443037.38	1976 Sep 15 2109:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W1310	2443038.14	1976 Sep 16 1521:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	51	-	-
1976-W1311	2443038.21	1976 Sep 16 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1312	2443038.53	1976 Sep 17 0049:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W1313	2443039.02	1976 Sep 17 1233:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W1314	2443039.15	1976 Sep 17 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W1315	2443039.17	1976 Sep 17 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1976-W1317	2443039.21	1976 Sep 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1318	2443039.23	1976 Sep 17 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1319	2443039.26	1976 Sep 17 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W1320	2443039.42	1976 Sep 17 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W1321	2443040.82	1976 Sep 19 0740:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	70	-	-
1976-W1322	2443041.79	1976 Sep 20 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	70	-	-
1976-W1323	2443042.01	1976 Sep 20 1211:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1324	2443042.11	1976 Sep 20 1435:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	53	-	-
1976-W1325	2443042.17	1976 Sep 20 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1327	2443042.20	1976 Sep 20 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1976-W1328	2443042.24	1976 Sep 20 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1329	2443042.26	1976 Sep 20 1815:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W1331	2443042.79	1976 Sep 21 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-A58	2443043.12	1976 Sep 21 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	0	-	-
1976-W1333	2443043.17	1976 Sep 21 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1976-W1334	2443043.21	1976 Sep 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1335	2443043.80	1976 Sep 22 0714:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	77	-	-
1976-W1336	2443044.02	1976 Sep 22 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1337	2443044.08	1976 Sep 22 1349:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1976-A59	2443044.09	1976 Sep 22 1413:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	39	-	-
1976-W1338	2443044.14	1976 Sep 22 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1976-A60	2443044.17	1976 Sep 22 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	0	-	-
1976-W1340	2443044.17	1976 Sep 22 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	57	-	-
1976-W1341	2443044.20	1976 Sep 22 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1976-W1342	2443044.21	1976 Sep 22 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1976-W1343	2443044.25	1976 Sep 22 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	78	-	-
1976-W1344	2443044.26	1976 Sep 22 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1976-Y431	2443044.31	1976 Sep 22 1923:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1976-W1345	2443044.34	1976 Sep 22 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1976-W1347	2443044.57	1976 Sep 23 0141:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1348	2443045.09	1976 Sep 23 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	72	-	-
1976-W1349	2443045.12	1976 Sep 23 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1976-W1350	2443045.15	1976 Sep 23 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1976-W1351	2443045.17	1976 Sep 23 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1976-W1352	2443045.52	1976 Sep 24 0033:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1353	2443045.79	1976 Sep 24 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	61	-	-
1976-W1354	2443046.07	1976 Sep 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1355	2443046.14	1976 Sep 24 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W1356	2443046.17	1976 Sep 24 1603:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W1357	2443046.17	1976 Sep 24 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W1359	2443046.22	1976 Sep 24 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1976-W1360	2443046.23	1976 Sep 24 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1976-W1361	2443046.27	1976 Sep 24 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1363	2443046.79	1976 Sep 25 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1364	2443047.17	1976 Sep 25 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1365	2443047.79	1976 Sep 26 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1366	2443048.10	1976 Sep 26 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1976-W1367	2443048.80	1976 Sep 27 0704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1368	2443049.02	1976 Sep 27 1229:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1369	2443049.09	1976 Sep 27 1403:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1976-W1370	2443049.11	1976 Sep 27 1445:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	55	-	-
1976-W1371	2443049.17	1976 Sep 27 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W1373	2443049.19	1976 Sep 27 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W1374	2443049.27	1976 Sep 27 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1375	2443049.41	1976 Sep 27 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1376	2443049.44	1976 Sep 27 2227:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1377	2443049.79	1976 Sep 28 0702:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	68	-	-
1976-W1378	2443050.15	1976 Sep 28 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	56	-	-
1976-W1380	2443050.34	1976 Sep 28 2014:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1381	2443050.45	1976 Sep 28 2241:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1382	2443050.53	1976 Sep 29 0041:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	65	-	-
1976-W1384	2443050.82	1976 Sep 29 0734:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1385	2443051.02	1976 Sep 29 1231:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1386	2443051.08	1976 Sep 29 1400:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	62	-	-
1976-W1387	2443051.09	1976 Sep 29 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	56	-	-
1976-W1388	2443051.15	1976 Sep 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W1389	2443051.17	1976 Sep 29 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W1390	2443051.20	1976 Sep 29 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1976-Y443	2443051.21	1976 Sep 29 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1392	2443051.22	1976 Sep 29 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1401	2443051.55	1976 Sep 30 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W1402	2443051.79	1976 Sep 30 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1403	2443052.14	1976 Sep 30 1514:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	59	-	-
1976-W1404	2443052.16	1976 Sep 30 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1405	2443052.23	1976 Sep 30 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1406	2443052.43	1976 Sep 30 2215:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W1407	2443052.79	1976 Oct 1 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1408	2443053.07	1976 Oct 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1409	2443053.15	1976 Oct 1 1534:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	59	-	-
1976-W1410	2443053.18	1976 Oct 1 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1976-W1411	2443053.19	1976 Oct 1 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-W1414	2443053.34	1976 Oct 1 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	68	-	-
1976-W1415	2443053.44	1976 Oct 1 2232:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1416	2443053.79	1976 Oct 2 0659:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1417	2443056.01	1976 Oct 4 1219:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1418	2443056.10	1976 Oct 4 1420:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	64	-	-
1976-W1419	2443056.11	1976 Oct 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W1420	2443056.17	1976 Oct 4 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-W1421	2443056.18	1976 Oct 4 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1976-W1422	2443056.20	1976 Oct 4 1652:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W1423	2443056.29	1976 Oct 4 1851:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1976-W1424	2443056.36	1976 Oct 4 2043:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1425	2443056.47	1976 Oct 4 2314:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1427	2443057.14	1976 Oct 5 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1976-W1428	2443058.07	1976 Oct 6 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1429	2443058.09	1976 Oct 6 1409:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	63	-	-
1976-A62	2443058.13	1976 Oct 6 1504:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	9	-	-
1976-W1432	2443058.13	1976 Oct 6 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1433	2443058.14	1976 Oct 6 1518:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	51	-	-
1976-W1434	2443058.17	1976 Oct 6 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	75	-	-
1976-W1435	2443058.18	1976 Oct 6 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1976-W1436	2443058.19	1976 Oct 6 1630:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	53	-	-
1976-Y450	2443058.20	1976 Oct 6 1652:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1976-W1437	2443058.28	1976 Oct 6 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1438	2443058.28	1976 Oct 6 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1976-Y452	2443058.30	1976 Oct 6 1909:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1439	2443058.33	1976 Oct 6 1952:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1976-W1440	2443058.55	1976 Oct 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1441	2443059.04	1976 Oct 7 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1442	2443059.13	1976 Oct 7 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1976-W1443	2443059.25	1976 Oct 7 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1444	2443059.33	1976 Oct 7 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	63	-	-
1976-W1445	2443059.39	1976 Oct 7 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1446	2443060.06	1976 Oct 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1976-W1447	2443060.11	1976 Oct 8 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1448	2443060.17	1976 Oct 8 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-W1450	2443060.19	1976 Oct 8 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-A64	2443060.54	1976 Oct 9 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1976-W1451	2443063.13	1976 Oct 11 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W1452	2443063.15	1976 Oct 11 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1976-W1453	2443064.16	1976 Oct 12 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W1454	2443064.23	1976 Oct 12 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W1455	2443064.33	1976 Oct 12 2001:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1976-W1456	2443064.42	1976 Oct 12 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1976-W1458	2443065.07	1976 Oct 13 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1459	2443065.09	1976 Oct 13 1407:00	Rocketsonde	-	-	Arcasonde	-	-	-	CLBI	-	-	-	63	-	-
1976-A65	2443065.10	1976 Oct 13 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	42	-	-
1976-W1460	2443065.13	1976 Oct 13 1503:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-Y458	2443065.17	1976 Oct 13 1558:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1976-W1461	2443065.17	1976 Oct 13 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W1463	2443065.20	1976 Oct 13 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1464	2443065.21	1976 Oct 13 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1976-W1465	2443065.22	1976 Oct 13 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-A66	2443065.22	1976 Oct 13 1712:00	Rocketsonde	-	-	Met Sphere	-	-	-	CC	LC43	-	-	9	-	-
1976-Y459	2443065.25	1976 Oct 13 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1466	2443065.26	1976 Oct 13 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1467	2443065.26	1976 Oct 13 1815:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1976-W1468	2443065.34	1976 Oct 13 2015:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1469	2443065.38	1976 Oct 13 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1470	2443065.40	1976 Oct 13 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1471	2443065.40	1976 Oct 13 2141:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1472	2443066.05	1976 Oct 14 1304:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1976-A68	2443066.55	1976 Oct 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1976-W1473	2443067.03	1976 Oct 15 1236:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1976-W1474	2443067.10	1976 Oct 15 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W1475	2443067.10	1976 Oct 15 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1976-W1476	2443067.10	1976 Oct 15 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1478	2443067.19	1976 Oct 15 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1479	2443067.32	1976 Oct 15 1941:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1976-W1480	2443067.36	1976 Oct 15 2034:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	59	-	-
1976-W1481	2443067.37	1976 Oct 15 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W1482	2443067.49	1976 Oct 15 2344:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W1484	2443070.09	1976 Oct 18 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1485	2443070.11	1976 Oct 18 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1486	2443070.16	1976 Oct 18 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1976-W1487	2443070.19	1976 Oct 18 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1976-W1488	2443070.23	1976 Oct 18 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	51	-	-
1976-W1489	2443070.53	1976 Oct 19 0043:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W1491	2443071.25	1976 Oct 19 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1976-W1493	2443072.07	1976 Oct 20 1344:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	57	-	-
1976-W1494	2443072.10	1976 Oct 20 1429:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1976-W1495	2443072.12	1976 Oct 20 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-Y467	2443072.12	1976 Oct 20 1500:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1976-W1496	2443072.12	1976 Oct 20 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W1497	2443072.15	1976 Oct 20 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1976-Y468	2443072.15	1976 Oct 20 1540:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1499	2443072.18	1976 Oct 20 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	57	-	-
1976-W1500	2443072.23	1976 Oct 20 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1501	2443072.33	1976 Oct 20 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	60	-	-
1976-W1502	2443072.43	1976 Oct 20 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W1503	2443072.50	1976 Oct 21 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1976-W1504	2443072.58	1976 Oct 21 0156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1976-W1506	2443073.25	1976 Oct 21 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1976-A70	2443074.04	1976 Oct 22 1300:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	43	-	-
1976-W1507	2443074.07	1976 Oct 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1508	2443074.11	1976 Oct 22 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1976-W1509	2443074.12	1976 Oct 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1976-W1510	2443074.13	1976 Oct 22 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W1511	2443074.17	1976 Oct 22 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W1512	2443074.26	1976 Oct 22 1817:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1976-W1513	2443074.42	1976 Oct 22 2211:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1514	2443074.49	1976 Oct 22 2349:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W1515	2443075.35	1976 Oct 23 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1517	2443077.15	1976 Oct 25 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1519	2443078.08	1976 Oct 26 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W1520	2443078.25	1976 Oct 26 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1521	2443078.33	1976 Oct 26 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	59	-	-
1976-W1522	2443078.36	1976 Oct 26 2044:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1523	2443078.40	1976 Oct 26 2137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1524	2443078.43	1976 Oct 26 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W1525	2443078.44	1976 Oct 26 2232:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1976-W1526	2443079.06	1976 Oct 27 1319:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	58	-	-
1976-W1527	2443079.07	1976 Oct 27 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-Y476	2443079.08	1976 Oct 27 1400:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1976-W1528	2443079.09	1976 Oct 27 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	63	-	-
1976-W1529	2443079.11	1976 Oct 27 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1530	2443079.13	1976 Oct 27 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W1531	2443079.14	1976 Oct 27 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W1532	2443079.19	1976 Oct 27 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-Y478	2443079.25	1976 Oct 27 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1534	2443079.26	1976 Oct 27 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1976-W1535	2443079.35	1976 Oct 27 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	56	-	-
1976-Y479	2443079.40	1976 Oct 27 2133:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1976-W1536	2443079.41	1976 Oct 27 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	53	-	-
1976-W1537	2443079.55	1976 Oct 28 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	61	-	-
1976-W1539	2443080.02	1976 Oct 28 1227:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W1540	2443080.49	1976 Oct 28 2349:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W1541	2443081.11	1976 Oct 29 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1976-W1542	2443081.12	1976 Oct 29 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1543	2443081.14	1976 Oct 29 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1976-W1544	2443081.15	1976 Oct 29 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	62	-	-
1976-W1545	2443081.16	1976 Oct 29 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1547	2443081.22	1976 Oct 29 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-Y480	2443081.29	1976 Oct 29 1857:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1976-W1548	2443081.32	1976 Oct 29 1946:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1976-W1549	2443081.38	1976 Oct 29 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1550	2443081.38	1976 Oct 29 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1551	2443081.42	1976 Oct 29 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	69	-	-
1976-W1552	2443081.52	1976 Oct 30 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1567	2443084.02	1976 Nov 1 1233:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1568	2443084.10	1976 Nov 1 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	57	-	-
1976-W1569	2443084.16	1976 Nov 1 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1976-W1570	2443084.19	1976 Nov 1 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1976-W1572	2443084.24	1976 Nov 1 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1573	2443084.28	1976 Nov 1 1836:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1976-W1574	2443084.29	1976 Nov 1 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1976-W1575	2443084.35	1976 Nov 1 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1576	2443084.46	1976 Nov 1 2300:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1976-W1577	2443084.47	1976 Nov 1 2315:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1976-W1578	2443085.13	1976 Nov 2 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1976-W1579	2443086.07	1976 Nov 3 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1580	2443086.09	1976 Nov 3 1403:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	52	-	-
1976-W1581	2443086.14	1976 Nov 3 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	73	-	-
1976-Y487	2443086.17	1976 Nov 3 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	90	-	-
1976-W1583	2443086.22	1976 Nov 3 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1976-W1584	2443086.23	1976 Nov 3 1734:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-Y488	2443086.29	1976 Nov 3 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1976-W1585	2443086.31	1976 Nov 3 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-W1586	2443086.32	1976 Nov 3 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1976-W1587	2443086.40	1976 Nov 3 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1588	2443086.42	1976 Nov 3 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	61	-	-
1976-W1589	2443087.02	1976 Nov 4 1229:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W1590	2443087.15	1976 Nov 4 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1592	2443088.12	1976 Nov 5 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1976-W1593	2443088.16	1976 Nov 5 1548:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1594	2443088.21	1976 Nov 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1976-A73	2443088.22	1976 Nov 5 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	47	-	-
1976-W1595	2443088.23	1976 Nov 5 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1976-W1596	2443088.29	1976 Nov 5 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1597	2443088.34	1976 Nov 5 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1598	2443088.38	1976 Nov 5 2110:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1976-W1599	2443088.50	1976 Nov 5 2357:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1600	2443091.07	1976 Nov 8 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W1601	2443091.12	1976 Nov 8 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1976-W1602	2443091.16	1976 Nov 8 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W1603	2443091.18	1976 Nov 8 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1976-W1604	2443091.18	1976 Nov 8 1620:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W1605	2443091.18	1976 Nov 8 1623:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1976-W1606	2443091.27	1976 Nov 8 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1607	2443091.35	1976 Nov 8 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	55	-	-
1976-W1608	2443091.39	1976 Nov 8 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-W1609	2443091.47	1976 Nov 8 2312:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1612	2443093.07	1976 Nov 10 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1613	2443093.09	1976 Nov 10 1404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	51	-	-
1976-W1614	2443093.11	1976 Nov 10 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1615	2443093.11	1976 Nov 10 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1616	2443093.15	1976 Nov 10 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-Y495	2443093.18	1976 Nov 10 1614:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1617	2443093.19	1976 Nov 10 1629:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1618	2443093.19	1976 Nov 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1976-Y496	2443093.21	1976 Nov 10 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1976-W1619	2443093.22	1976 Nov 10 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1976-W1620	2443093.31	1976 Nov 10 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1976-W1621	2443093.33	1976 Nov 10 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1622	2443093.38	1976 Nov 10 2100:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	77	-	-
1976-W1623	2443093.40	1976 Nov 10 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1624	2443093.54	1976 Nov 11 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1976-W1625	2443093.55	1976 Nov 11 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1627	2443094.04	1976 Nov 11 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1629	2443094.21	1976 Nov 11 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1630	2443095.03	1976 Nov 12 1241:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1631	2443095.11	1976 Nov 12 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	62	-	-
1976-W1632	2443095.13	1976 Nov 12 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1976-W1633	2443095.14	1976 Nov 12 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1976-W1634	2443095.19	1976 Nov 12 1626:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1976-Y497	2443095.23	1976 Nov 12 1726:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1976-W1636	2443095.31	1976 Nov 12 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W1637	2443095.41	1976 Nov 12 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1976-W1638	2443095.50	1976 Nov 12 2357:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1639	2443095.54	1976 Nov 13 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1976-W1640	2443095.77	1976 Nov 13 0630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1642	2443098.07	1976 Nov 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W1643	2443098.10	1976 Nov 15 1418:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1976-W1644	2443098.15	1976 Nov 15 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	53	-	-
1976-W1645	2443098.18	1976 Nov 15 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1646	2443098.18	1976 Nov 15 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1976-A74	2443098.20	1976 Nov 15 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	41	-	-
1976-W1647	2443098.28	1976 Nov 15 1845:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1976-W1648	2443098.47	1976 Nov 15 2312:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1649	2443098.54	1976 Nov 16 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W1650	2443098.73	1976 Nov 16 0530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1651	2443100.03	1976 Nov 17 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-W1652	2443100.05	1976 Nov 17 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1653	2443100.12	1976 Nov 17 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1654	2443100.14	1976 Nov 17 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1655	2443100.15	1976 Nov 17 1533:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	55	-	-
1976-W1658	2443100.19	1976 Nov 17 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W1659	2443100.22	1976 Nov 17 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-Y503	2443100.23	1976 Nov 17 1731:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1976-W1660	2443100.23	1976 Nov 17 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1976-Y504	2443100.30	1976 Nov 17 1904:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1976-W1661	2443100.30	1976 Nov 17 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1662	2443100.39	1976 Nov 17 2125:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	61	-	-
1976-W1663	2443100.41	1976 Nov 17 2151:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-Y505	2443100.49	1976 Nov 17 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1664	2443100.69	1976 Nov 18 0430:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	69	-	-
1976-W1666	2443101.01	1976 Nov 18 1210:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1668	2443102.13	1976 Nov 19 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1669	2443102.13	1976 Nov 19 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1976-W1670	2443102.19	1976 Nov 19 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1976-W1672	2443102.20	1976 Nov 19 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1673	2443102.20	1976 Nov 19 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1976-W1674	2443102.29	1976 Nov 19 1857:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	57	-	-
1976-W1675	2443102.40	1976 Nov 19 2137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W1676	2443103.75	1976 Nov 21 0600:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	68	-	-
1976-W1677	2443105.03	1976 Nov 22 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1678	2443105.14	1976 Nov 22 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1679	2443105.19	1976 Nov 22 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-W1681	2443105.20	1976 Nov 22 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1682	2443105.28	1976 Nov 22 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1976-W1683	2443105.30	1976 Nov 22 1915:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1976-W1684	2443105.45	1976 Nov 22 2252:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1976-W1685	2443105.47	1976 Nov 22 2311:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1976-W1686	2443105.73	1976 Nov 23 0530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1688	2443106.20	1976 Nov 23 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1689	2443106.75	1976 Nov 24 0601:59	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1690	2443107.05	1976 Nov 24 1314:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	70	-	-
1976-W1691	2443107.07	1976 Nov 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1976-W1692	2443107.12	1976 Nov 24 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1976-W1693	2443107.13	1976 Nov 24 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1976-W1694	2443107.16	1976 Nov 24 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-Y513	2443107.17	1976 Nov 24 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1976-W1695	2443107.20	1976 Nov 24 1645:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-Y514	2443107.21	1976 Nov 24 1709:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1976-Y515	2443107.23	1976 Nov 24 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1697	2443107.24	1976 Nov 24 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1698	2443107.25	1976 Nov 24 1802:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1976-W1699	2443107.32	1976 Nov 24 1933:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1976-W1700	2443107.38	1976 Nov 24 2100:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	71	-	-
1976-W1701	2443107.49	1976 Nov 24 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W1703	2443108.12	1976 Nov 25 1454:00	Rocketsonde	-	-	Arcasonde	-	-	-	CELAT	-	-	-	59	-	-
1976-W1706	2443108.88	1976 Nov 26 0900:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	68	-	-
1976-W1707	2443109.12	1976 Nov 26 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	63	-	-
1976-W1708	2443109.15	1976 Nov 26 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1976-W1709	2443109.15	1976 Nov 26 1540:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	52	-	-
1976-W1711	2443109.20	1976 Nov 26 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	58	-	-
1976-W1712	2443109.21	1976 Nov 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1713	2443109.55	1976 Nov 27 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W1714	2443111.73	1976 Nov 29 0530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	62	-	-
1976-W1715	2443112.10	1976 Nov 29 1417:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	62	-	-
1976-W1716	2443112.19	1976 Nov 29 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1976-W1717	2443112.19	1976 Nov 29 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1718	2443112.21	1976 Nov 29 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-W1719	2443112.22	1976 Nov 29 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1976-W1720	2443112.28	1976 Nov 29 1843:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1976-W1721	2443112.42	1976 Nov 29 2211:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1722	2443112.47	1976 Nov 29 2311:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1723	2443113.02	1976 Nov 30 1234:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W1724	2443113.35	1976 Nov 30 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1976-W1725	2443113.72	1976 Dec 1 0515:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	58	-	-
1976-W1726	2443114.07	1976 Dec 1 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1976-W1727	2443114.10	1976 Dec 1 1426:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CC	LC43	-	-	72	-	-
1976-W1728	2443114.12	1976 Dec 1 1449:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	58	-	-
1976-W1729	2443114.13	1976 Dec 1 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1976-W1730	2443114.14	1976 Dec 1 1517:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	64	-	-
1976-W1731	2443114.15	1976 Dec 1 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1976-Y521	2443114.16	1976 Dec 1 1556:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1976-W1733	2443114.19	1976 Dec 1 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1976-W1734	2443114.20	1976 Dec 1 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1976-Y523	2443114.25	1976 Dec 1 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1976-W1736	2443114.26	1976 Dec 1 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1976-W1737	2443114.50	1976 Dec 1 2358:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	62	-	-
1976-W1740	2443115.25	1976 Dec 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1741	2443115.30	1976 Dec 2 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1976-W1742	2443115.41	1976 Dec 2 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W1743	2443116.09	1976 Dec 3 1415:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	66	-	-
1976-W1744	2443116.10	1976 Dec 3 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1976-W1745	2443116.12	1976 Dec 3 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1976-W1746	2443116.15	1976 Dec 3 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1748	2443116.25	1976 Dec 3 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1976-W1749	2443116.33	1976 Dec 3 1951:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	65	-	-
1976-W1750	2443116.40	1976 Dec 3 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1754	2443119.11	1976 Dec 6 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1755	2443119.15	1976 Dec 6 1530:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	59	-	-
1976-W1756	2443119.19	1976 Dec 6 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1757	2443119.22	1976 Dec 6 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1976-W1758	2443119.25	1976 Dec 6 1800:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	56	-	-
1976-W1759	2443119.26	1976 Dec 6 1809:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1976-W1760	2443119.28	1976 Dec 6 1847:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1976-W1761	2443119.29	1976 Dec 6 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1762	2443119.36	1976 Dec 6 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1763	2443119.47	1976 Dec 6 2311:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1976-W1764	2443120.00	1976 Dec 7 1204:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1976-A75	2443120.17	1976 Dec 7 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	48	-	-
1976-W1765	2443120.19	1976 Dec 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1767	2443120.34	1976 Dec 7 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1768	2443121.01	1976 Dec 8 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1769	2443121.13	1976 Dec 8 1500:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	72	-	-
1976-W1770	2443121.13	1976 Dec 8 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1976-W1771	2443121.15	1976 Dec 8 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1976-Y533	2443121.19	1976 Dec 8 1630:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	96	-	-
1976-W1772	2443121.21	1976 Dec 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-Y535	2443121.27	1976 Dec 8 1824:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1774	2443121.27	1976 Dec 8 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1976-W1775	2443121.27	1976 Dec 8 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1976-W1776	2443121.31	1976 Dec 8 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	50	-	-
1976-W1777	2443121.35	1976 Dec 8 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	58	-	-
1976-W1778	2443121.52	1976 Dec 9 0034:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W1779	2443122.01	1976 Dec 9 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	70	-	-
1976-W1780	2443122.09	1976 Dec 9 1411:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CELAT	-	-	-	58	-	-
1976-W1781	2443122.11	1976 Dec 9 1445:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1976-W1782	2443122.13	1976 Dec 9 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1976-W1783	2443122.14	1976 Dec 9 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1976-W1784	2443122.15	1976 Dec 9 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1786	2443122.17	1976 Dec 9 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	60	-	-
1976-W1787	2443122.25	1976 Dec 9 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1788	2443122.25	1976 Dec 9 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	54	-	-
1976-W1789	2443123.13	1976 Dec 10 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1791	2443123.15	1976 Dec 10 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1976-Y538	2443123.19	1976 Dec 10 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-Y539	2443123.25	1976 Dec 10 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1792	2443123.26	1976 Dec 10 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1793	2443123.29	1976 Dec 10 1859:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1976-W1794	2443123.34	1976 Dec 10 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	67	-	-
1976-W1795	2443123.38	1976 Dec 10 2100:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	70	-	-
1976-Y541	2443123.40	1976 Dec 10 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1976-W1796	2443123.42	1976 Dec 10 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1797	2443124.17	1976 Dec 11 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1798	2443125.15	1976 Dec 12 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1976-W1800	2443126.11	1976 Dec 13 1445:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1976-W1801	2443126.13	1976 Dec 13 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1976-W1803	2443126.17	1976 Dec 13 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1804	2443126.19	1976 Dec 13 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1976-W1805	2443126.21	1976 Dec 13 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	55	-	-
1976-W1806	2443126.27	1976 Dec 13 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1807	2443126.30	1976 Dec 13 1908:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1808	2443126.33	1976 Dec 13 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	66	-	-
1976-W1809	2443126.43	1976 Dec 13 2218:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1976-W1810	2443127.01	1976 Dec 14 1208:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1812	2443127.15	1976 Dec 14 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1813	2443127.20	1976 Dec 14 1648:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1814	2443127.23	1976 Dec 14 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1815	2443127.35	1976 Dec 14 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1976-W1816	2443127.37	1976 Dec 14 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1817	2443128.07	1976 Dec 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	50	-	-
1976-W1818	2443128.09	1976 Dec 15 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1976-A79	2443128.09	1976 Dec 15 1415:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	45	-	-
1976-W1819	2443128.10	1976 Dec 15 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1820	2443128.11	1976 Dec 15 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W1821	2443128.12	1976 Dec 15 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-Y549	2443128.17	1976 Dec 15 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	97	-	-
1976-W1823	2443128.18	1976 Dec 15 1614:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	66	-	-
1976-Y551	2443128.21	1976 Dec 15 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1824	2443128.22	1976 Dec 15 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1976-W1825	2443128.35	1976 Dec 15 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	61	-	-
1976-W1826	2443128.51	1976 Dec 16 0020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1976-W1827	2443129.02	1976 Dec 16 1223:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1976-W1828	2443129.04	1976 Dec 16 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1829	2443129.08	1976 Dec 16 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-Y553	2443129.19	1976 Dec 16 1630:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	98	-	-
1976-W1830	2443129.22	1976 Dec 16 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1831	2443129.22	1976 Dec 16 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1976-W1832	2443129.35	1976 Dec 16 2025:00	Rocketsonde	-	-	Arcasonde	-	-	-	PF	-	-	-	64	-	-
1976-W1833	2443129.39	1976 Dec 16 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1976-W1834	2443129.55	1976 Dec 17 0106:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W1835	2443130.11	1976 Dec 17 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1836	2443130.12	1976 Dec 17 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1976-W1837	2443130.15	1976 Dec 17 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1976-W1839	2443130.19	1976 Dec 17 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1840	2443130.20	1976 Dec 17 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-W1841	2443130.54	1976 Dec 18 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1976-W1842	2443133.04	1976 Dec 20 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1976-W1843	2443133.09	1976 Dec 20 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-W1844	2443133.10	1976 Dec 20 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1976-W1845	2443133.10	1976 Dec 20 1426:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	67	-	-
1976-W1847	2443133.19	1976 Dec 20 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1976-W1848	2443133.19	1976 Dec 20 1635:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1976-W1849	2443133.27	1976 Dec 20 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	65	-	-
1976-W1850	2443133.27	1976 Dec 20 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1976-W1851	2443133.38	1976 Dec 20 2100:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	58	-	-
1976-W1852	2443133.42	1976 Dec 20 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1976-W1853	2443133.48	1976 Dec 20 2327:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1855	2443134.21	1976 Dec 21 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1976-W1856	2443134.36	1976 Dec 21 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1976-W1857	2443135.07	1976 Dec 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1976-W1858	2443135.09	1976 Dec 22 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1976-W1859	2443135.13	1976 Dec 22 1508:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	57	-	-
1976-W1861	2443135.14	1976 Dec 22 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1976-W1862	2443135.17	1976 Dec 22 1603:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	68	-	-
1976-Y566	2443135.19	1976 Dec 22 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1976-W1864	2443135.19	1976 Dec 22 1637:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1976-W1865	2443135.19	1976 Dec 22 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1866	2443135.22	1976 Dec 22 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1976-W1868	2443135.39	1976 Dec 22 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1976-Y567	2443135.42	1976 Dec 22 2201:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1976-W1869	2443135.44	1976 Dec 22 2229:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1976-Y568	2443135.55	1976 Dec 23 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1976-W1871	2443136.30	1976 Dec 23 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1976-W1872	2443136.50	1976 Dec 24 0004:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1976-W1873	2443137.11	1976 Dec 24 1435:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	63	-	-
1976-W1875	2443137.24	1976 Dec 24 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1976-W1876	2443140.21	1976 Dec 27 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1976-W1877	2443140.25	1976 Dec 27 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1976-W1878	2443140.50	1976 Dec 27 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1976-W1879	2443141.13	1976 Dec 28 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	73	-	-
1976-W1880	2443141.15	1976 Dec 28 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1976-W1882	2443142.10	1976 Dec 29 1430:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	69	-	-
1976-W1883	2443142.11	1976 Dec 29 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W1884	2443142.14	1976 Dec 29 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1976-W1885	2443142.14	1976 Dec 29 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1976-W1886	2443142.15	1976 Dec 29 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1976-W1887	2443142.18	1976 Dec 29 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1976-W1888	2443142.21	1976 Dec 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1976-Y583	2443142.22	1976 Dec 29 1715:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1976-Y584	2443142.25	1976 Dec 29 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1976-W1889	2443142.26	1976 Dec 29 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1976-W1890	2443142.39	1976 Dec 29 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1976-W1891	2443142.54	1976 Dec 30 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1976-W1892	2443143.02	1976 Dec 30 1231:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	58	-	-
1976-W1893	2443143.10	1976 Dec 30 1421:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	CLBI	-	-	-	64	-	-
1976-W1894	2443143.19	1976 Dec 30 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1976-W1895	2443143.40	1976 Dec 30 2143:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1976-W1898	2443144.16	1976 Dec 31 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1977-W1031	2443312.27	1977 Jun 17 1823:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1032	2443312.47	1977 Jun 17 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1033	2443312.52	1977 Jun 18 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1034	2443313.47	1977 Jun 18 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1035	2443314.47	1977 Jun 19 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1036	2443315.07	1977 Jun 20 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1977-W1037	2443315.09	1977 Jun 20 1403:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-W1038	2443315.16	1977 Jun 20 1552:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1039	2443315.18	1977 Jun 20 1623:59	Rocketsonde	-	-	-	-	-	-	CC	LC43	-	-	69	-	-
1977-W1040	2443315.23	1977 Jun 20 1734:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1041	2443315.48	1977 Jun 20 2335:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W1042	2443315.50	1977 Jun 21 0004:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W1044	2443315.99	1977 Jun 21 1141:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W1045	2443316.20	1977 Jun 21 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1046	2443316.47	1977 Jun 21 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1977-W1047	2443317.06	1977 Jun 22 1329:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1977-W1049	2443317.12	1977 Jun 22 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-Y241	2443317.15	1977 Jun 22 1531:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1977-W1050	2443317.15	1977 Jun 22 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W1051	2443317.17	1977 Jun 22 1609:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	57	-	-
1977-W1053	2443317.19	1977 Jun 22 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W1056	2443317.26	1977 Jun 22 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1058	2443317.35	1977 Jun 22 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-Y242	2443317.39	1977 Jun 22 2124:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1977-Y243	2443317.39	1977 Jun 22 2127:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1059	2443317.41	1977 Jun 22 2156:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-W1060	2443317.42	1977 Jun 22 2200:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1061	2443317.47	1977 Jun 22 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1062	2443318.01	1977 Jun 23 1209:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W1063	2443318.13	1977 Jun 23 1501:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1064	2443318.40	1977 Jun 23 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W1065	2443318.47	1977 Jun 23 2323:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1066	2443319.10	1977 Jun 24 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	68	-	-
1977-W1067	2443319.13	1977 Jun 24 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	55	-	-
1977-W1068	2443319.14	1977 Jun 24 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1069	2443319.17	1977 Jun 24 1559:59	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	74	-	-
1977-Y245	2443319.21	1977 Jun 24 1708:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	102	-	-
1977-W1070	2443319.26	1977 Jun 24 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1977-W1071	2443319.34	1977 Jun 24 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1072	2443319.48	1977 Jun 24 2325:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1073	2443320.47	1977 Jun 25 2319:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1075	2443321.47	1977 Jun 26 2322:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1076	2443322.03	1977 Jun 27 1245:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	66	-	-
1977-W1077	2443322.03	1977 Jun 27 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1977-W1078	2443322.09	1977 Jun 27 1403:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	65	-	-
1977-W1079	2443322.13	1977 Jun 27 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1977-W1080	2443322.14	1977 Jun 27 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1081	2443322.27	1977 Jun 27 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1082	2443322.27	1977 Jun 27 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1083	2443322.35	1977 Jun 27 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W1084	2443322.49	1977 Jun 27 2344:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1085	2443322.52	1977 Jun 28 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1977-W1086	2443323.12	1977 Jun 28 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W1087	2443323.50	1977 Jun 28 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1088	2443323.50	1977 Jun 29 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1091	2443324.07	1977 Jun 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1977-W1092	2443324.10	1977 Jun 29 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W1093	2443324.11	1977 Jun 29 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1977-W1094	2443324.12	1977 Jun 29 1453:00	Rocketsonde	-	-	-	-	-	-	ANT	-	-	-	54	-	-
1977-W1096	2443324.14	1977 Jun 29 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1097	2443324.16	1977 Jun 29 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W1098	2443324.17	1977 Jun 29 1559:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	52	-	-
1977-Y249	2443324.25	1977 Jun 29 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	104	-	-
1977-A33	2443324.26	1977 Jun 29 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	46	-	-
1977-Y250	2443324.29	1977 Jun 29 1903:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1100	2443324.31	1977 Jun 29 1923:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-Y251	2443324.47	1977 Jun 29 2315:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W1103	2443324.50	1977 Jun 30 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W1104	2443325.01	1977 Jun 30 1221:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1977-W1105	2443325.17	1977 Jun 30 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1977-W1106	2443325.26	1977 Jun 30 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1107	2443325.35	1977 Jun 30 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-W1108	2443325.47	1977 Jun 30 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-A34	2443325.50	1977 Jul 1 0006:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1977-W1109	2443326.21	1977 Jul 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1110	2443326.23	1977 Jul 1 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1111	2443326.25	1977 Jul 1 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W1112	2443326.47	1977 Jul 1 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1113	2443327.47	1977 Jul 2 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1114	2443328.47	1977 Jul 3 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1115	2443329.13	1977 Jul 4 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1116	2443329.49	1977 Jul 4 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1117	2443330.21	1977 Jul 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1118	2443330.25	1977 Jul 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1119	2443330.25	1977 Jul 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1120	2443330.39	1977 Jul 5 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1121	2443330.48	1977 Jul 5 2329:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1122	2443330.50	1977 Jul 6 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1977-W1123	2443331.11	1977 Jul 6 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W1124	2443331.11	1977 Jul 6 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W1125	2443331.12	1977 Jul 6 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1977-W1127	2443331.13	1977 Jul 6 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-Y255	2443331.25	1977 Jul 6 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1129	2443331.26	1977 Jul 6 1810:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-W1130	2443331.33	1977 Jul 6 1954:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1977-Y256	2443331.38	1977 Jul 6 2106:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1131	2443331.40	1977 Jul 6 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-Y257	2443331.47	1977 Jul 6 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1977-W1132	2443331.50	1977 Jul 7 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1977-W1133	2443332.36	1977 Jul 7 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1134	2443332.47	1977 Jul 7 2318:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1135	2443332.50	1977 Jul 8 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W1136	2443333.08	1977 Jul 8 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1137	2443333.14	1977 Jul 8 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W1138	2443333.24	1977 Jul 8 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-A35	2443333.36	1977 Jul 8 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	49	-	-
1977-W1139	2443333.49	1977 Jul 8 2345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1140	2443333.50	1977 Jul 9 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1141	2443334.47	1977 Jul 9 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1142	2443335.47	1977 Jul 10 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1143	2443336.11	1977 Jul 11 1444:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W1144	2443336.16	1977 Jul 11 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1977-W1145	2443336.25	1977 Jul 11 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1146	2443336.29	1977 Jul 11 1853:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1147	2443336.47	1977 Jul 11 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1148	2443337.10	1977 Jul 12 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W1149	2443337.23	1977 Jul 12 1726:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1150	2443337.38	1977 Jul 12 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W1151	2443337.47	1977 Jul 12 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1152	2443338.11	1977 Jul 13 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1977-W1153	2443338.13	1977 Jul 13 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W1154	2443338.26	1977 Jul 13 1810:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-W1156	2443338.36	1977 Jul 13 2036:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	78	-	-
1977-W1157	2443338.37	1977 Jul 13 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	72	-	-
1977-W1158	2443338.38	1977 Jul 13 2107:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	68	-	-
1977-W1159	2443338.47	1977 Jul 13 2321:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1160	2443339.12	1977 Jul 14 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1161	2443339.15	1977 Jul 14 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1162	2443339.38	1977 Jul 14 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-Y262	2443339.47	1977 Jul 14 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1977-W1163	2443339.50	1977 Jul 15 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1164	2443340.10	1977 Jul 15 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W1165	2443340.14	1977 Jul 15 1521:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W1166	2443340.25	1977 Jul 15 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1167	2443340.27	1977 Jul 15 1833:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1168	2443340.40	1977 Jul 15 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W1169	2443340.45	1977 Jul 15 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W1170	2443340.47	1977 Jul 15 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1171	2443341.10	1977 Jul 16 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W1172	2443341.27	1977 Jul 16 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W1173	2443341.38	1977 Jul 16 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-Y265	2443341.47	1977 Jul 16 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W1174	2443342.11	1977 Jul 17 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W1175	2443342.29	1977 Jul 17 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W1176	2443342.38	1977 Jul 17 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1977-W1177	2443342.47	1977 Jul 17 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1178	2443343.11	1977 Jul 18 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W1179	2443343.12	1977 Jul 18 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1180	2443343.27	1977 Jul 18 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1977-W1181	2443343.29	1977 Jul 18 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1182	2443343.30	1977 Jul 18 1911:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1977-W1183	2443343.30	1977 Jul 18 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1184	2443343.38	1977 Jul 18 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1185	2443343.38	1977 Jul 18 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1977-W1186	2443343.48	1977 Jul 18 2327:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1187	2443344.14	1977 Jul 19 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W1188	2443344.15	1977 Jul 19 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1190	2443344.27	1977 Jul 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	60	-	-
1977-W1191	2443344.29	1977 Jul 19 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1977-W1192	2443344.42	1977 Jul 19 2202:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1977-W1193	2443344.48	1977 Jul 19 2324:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1194	2443345.14	1977 Jul 20 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1197	2443345.23	1977 Jul 20 1734:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	53	-	-
1977-W1199	2443345.25	1977 Jul 20 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1977-W1200	2443345.25	1977 Jul 20 1806:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-Y269	2443345.26	1977 Jul 20 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1202	2443345.27	1977 Jul 20 1830:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-W1203	2443345.28	1977 Jul 20 1849:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W1205	2443345.38	1977 Jul 20 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	72	-	-
1977-W1207	2443345.48	1977 Jul 20 2329:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W1208	2443345.50	1977 Jul 21 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1210	2443346.05	1977 Jul 21 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W1213	2443346.25	1977 Jul 21 1757:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1214	2443346.25	1977 Jul 21 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1215	2443346.26	1977 Jul 21 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1217	2443346.38	1977 Jul 21 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1219	2443346.47	1977 Jul 21 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W1221	2443347.15	1977 Jul 22 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1222	2443347.18	1977 Jul 22 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W1224	2443347.25	1977 Jul 22 1801:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W1225	2443347.29	1977 Jul 22 1856:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1977-W1226	2443347.29	1977 Jul 22 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1977-W1227	2443347.38	1977 Jul 22 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-Y272	2443347.40	1977 Jul 22 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W1228	2443347.41	1977 Jul 22 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1229	2443347.48	1977 Jul 22 2330:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	53	-	-
1977-W1230	2443347.50	1977 Jul 23 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1233	2443348.10	1977 Jul 23 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1234	2443348.29	1977 Jul 23 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1977-W1235	2443348.40	1977 Jul 23 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W1236	2443348.50	1977 Jul 23 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1237	2443349.09	1977 Jul 24 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1977-W1238	2443349.34	1977 Jul 24 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	69	-	-
1977-W1239	2443349.42	1977 Jul 24 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-Y273	2443349.47	1977 Jul 24 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W1240	2443350.11	1977 Jul 25 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1241	2443350.11	1977 Jul 25 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1242	2443350.25	1977 Jul 25 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1243	2443350.27	1977 Jul 25 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1244	2443350.38	1977 Jul 25 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-Y274	2443350.47	1977 Jul 25 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W1245	2443351.10	1977 Jul 26 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1246	2443351.24	1977 Jul 26 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1247	2443351.27	1977 Jul 26 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1977-W1248	2443351.27	1977 Jul 26 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1249	2443351.38	1977 Jul 26 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1250	2443351.50	1977 Jul 27 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W1252	2443352.10	1977 Jul 27 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W1253	2443352.10	1977 Jul 27 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-Y278	2443352.26	1977 Jul 27 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1255	2443352.27	1977 Jul 27 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W1256	2443352.27	1977 Jul 27 1830:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-W1258	2443352.35	1977 Jul 27 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W1260	2443352.38	1977 Jul 27 2104:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	76	-	-
1977-W1261	2443352.39	1977 Jul 27 2127:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	64	-	-
1977-W1262	2443352.41	1977 Jul 27 2148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	68	-	-
1977-Y279	2443352.47	1977 Jul 27 2318:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W1263	2443352.50	1977 Jul 28 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1264	2443353.10	1977 Jul 28 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1265	2443353.26	1977 Jul 28 1819:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1266	2443353.31	1977 Jul 28 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1267	2443353.38	1977 Jul 28 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1977-W1268	2443353.43	1977 Jul 28 2217:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-Y280	2443353.47	1977 Jul 28 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-Y281	2443353.88	1977 Jul 29 0904:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W1270	2443354.10	1977 Jul 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-W1271	2443354.13	1977 Jul 29 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1273	2443354.31	1977 Jul 29 1932:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W1275	2443354.38	1977 Jul 29 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W1276	2443354.41	1977 Jul 29 2153:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1977-W1277	2443354.47	1977 Jul 29 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1278	2443354.50	1977 Jul 30 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W1279	2443355.09	1977 Jul 30 1415:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1280	2443355.26	1977 Jul 30 1815:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1281	2443355.42	1977 Jul 30 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W1282	2443355.47	1977 Jul 30 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1287	2443356.11	1977 Jul 31 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1288	2443356.29	1977 Jul 31 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1289	2443356.39	1977 Jul 31 2120:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W1290	2443356.47	1977 Jul 31 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1291	2443357.11	1977 Aug 1 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	65	-	-
1977-W1292	2443357.12	1977 Aug 1 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W1293	2443357.24	1977 Aug 1 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1294	2443357.25	1977 Aug 1 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1295	2443357.27	1977 Aug 1 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1977-W1296	2443357.40	1977 Aug 1 2130:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1977-W1297	2443357.42	1977 Aug 1 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-Y282	2443357.47	1977 Aug 1 2318:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W1298	2443358.11	1977 Aug 2 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1299	2443358.21	1977 Aug 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1300	2443358.25	1977 Aug 2 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W1301	2443358.38	1977 Aug 2 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W1302	2443358.48	1977 Aug 2 2337:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1303	2443358.50	1977 Aug 3 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1977-W1304	2443359.12	1977 Aug 3 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	65	-	-
1977-Y287	2443359.23	1977 Aug 3 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W1306	2443359.23	1977 Aug 3 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1307	2443359.24	1977 Aug 3 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y288	2443359.27	1977 Aug 3 1831:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1977-W1308	2443359.29	1977 Aug 3 1856:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1977-Y289	2443359.39	1977 Aug 3 2127:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1977-W1310	2443359.43	1977 Aug 3 2219:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	75	-	-
1977-Y290	2443359.47	1977 Aug 3 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W1311	2443359.52	1977 Aug 4 0024:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1977-W1312	2443360.11	1977 Aug 4 1440:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	68	-	-
1977-W1313	2443360.23	1977 Aug 4 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W1314	2443360.34	1977 Aug 4 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1315	2443360.50	1977 Aug 5 0000:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W1316	2443361.10	1977 Aug 5 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1317	2443361.11	1977 Aug 5 1438:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1319	2443361.21	1977 Aug 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	56	-	-
1977-W1320	2443361.25	1977 Aug 5 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1977-W1321	2443361.25	1977 Aug 5 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1323	2443361.41	1977 Aug 5 2148:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1977-W1324	2443361.48	1977 Aug 5 2326:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1977-W1325	2443362.10	1977 Aug 6 1421:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-W1326	2443362.21	1977 Aug 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1327	2443362.47	1977 Aug 6 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1328	2443363.28	1977 Aug 7 1846:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1329	2443363.47	1977 Aug 7 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1977-W1331	2443364.10	1977 Aug 8 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1977-W1332	2443364.12	1977 Aug 8 1453:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1333	2443364.17	1977 Aug 8 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W1334	2443364.21	1977 Aug 8 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1335	2443364.27	1977 Aug 8 1822:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1977-W1336	2443364.47	1977 Aug 8 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-A38	2443364.54	1977 Aug 9 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	46	-	-
1977-W1337	2443365.11	1977 Aug 9 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1338	2443365.24	1977 Aug 9 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W1339	2443365.27	1977 Aug 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1340	2443365.48	1977 Aug 9 2326:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1343	2443366.10	1977 Aug 10 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1344	2443366.21	1977 Aug 10 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1977-Y295	2443366.21	1977 Aug 10 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1345	2443366.22	1977 Aug 10 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1346	2443366.25	1977 Aug 10 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-Y296	2443366.30	1977 Aug 10 1911:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1348	2443366.47	1977 Aug 10 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1349	2443367.39	1977 Aug 11 2122:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1977-W1351	2443368.21	1977 Aug 12 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W1352	2443368.24	1977 Aug 12 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1353	2443368.27	1977 Aug 12 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1354	2443368.31	1977 Aug 12 1926:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1356	2443368.39	1977 Aug 12 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1357	2443371.15	1977 Aug 15 1536:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W1358	2443371.18	1977 Aug 15 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1360	2443371.21	1977 Aug 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	55	-	-
1977-W1361	2443371.34	1977 Aug 15 2008:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W1362	2443371.37	1977 Aug 15 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	50	-	-
1977-Y298	2443371.46	1977 Aug 15 2303:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1977-W1365	2443373.15	1977 Aug 17 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1977-W1366	2443373.16	1977 Aug 17 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W1369	2443373.21	1977 Aug 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W1370	2443373.22	1977 Aug 17 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-Y302	2443373.25	1977 Aug 17 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1373	2443373.37	1977 Aug 17 2048:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W1375	2443373.39	1977 Aug 17 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W1376	2443374.21	1977 Aug 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1377	2443375.10	1977 Aug 19 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1378	2443375.20	1977 Aug 19 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1381	2443375.38	1977 Aug 19 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W1382	2443375.38	1977 Aug 19 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1383	2443378.09	1977 Aug 22 1403:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W1385	2443378.22	1977 Aug 22 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	68	-	-
1977-W1386	2443378.25	1977 Aug 22 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1387	2443378.28	1977 Aug 22 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1388	2443378.36	1977 Aug 22 2032:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	61	-	-
1977-W1389	2443378.38	1977 Aug 22 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1392	2443380.11	1977 Aug 24 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1393	2443380.15	1977 Aug 24 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1394	2443380.16	1977 Aug 24 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	56	-	-
1977-W1395	2443380.22	1977 Aug 24 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1977-W1396	2443380.28	1977 Aug 24 1847:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	56	-	-
1977-Y308	2443380.30	1977 Aug 24 1918:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1397	2443380.31	1977 Aug 24 1929:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	69	-	-
1977-W1398	2443380.40	1977 Aug 24 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1399	2443380.47	1977 Aug 24 2318:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1977-W1400	2443381.17	1977 Aug 25 1610:59	Super Loki	-	-	Chaff	-	-	-	WS	-	-	-	57	-	-
1977-W1401	2443381.40	1977 Aug 25 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1403	2443382.14	1977 Aug 26 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1404	2443382.15	1977 Aug 26 1534:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1406	2443382.27	1977 Aug 26 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1407	2443382.28	1977 Aug 26 1848:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-Y310	2443382.38	1977 Aug 26 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1977-W1409	2443382.45	1977 Aug 26 2244:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W1411	2443385.13	1977 Aug 29 1509:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1412	2443385.15	1977 Aug 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W1413	2443385.24	1977 Aug 29 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1414	2443385.24	1977 Aug 29 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1415	2443385.25	1977 Aug 29 1754:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1977-W1416	2443385.31	1977 Aug 29 1930:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1977-W1417	2443385.38	1977 Aug 29 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1977-W1418	2443385.38	1977 Aug 29 2102:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1419	2443385.40	1977 Aug 29 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1977-W1421	2443387.11	1977 Aug 31 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W1422	2443387.12	1977 Aug 31 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1977-W1423	2443387.14	1977 Aug 31 1514:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1425	2443387.21	1977 Aug 31 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1977-Y315	2443387.25	1977 Aug 31 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1426	2443387.26	1977 Aug 31 1810:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-Y316	2443387.39	1977 Aug 31 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1977-W1428	2443388.35	1977 Sep 1 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-Y317	2443388.40	1977 Sep 1 2134:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1977-W1429	2443388.41	1977 Sep 1 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1430	2443389.14	1977 Sep 2 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-Y318	2443389.15	1977 Sep 2 1529:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W1432	2443389.21	1977 Sep 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W1433	2443389.25	1977 Sep 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1977-W1434	2443389.77	1977 Sep 3 0633:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1435	2443390.09	1977 Sep 3 1409:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-Y319	2443390.22	1977 Sep 3 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1977-W1436	2443393.20	1977 Sep 6 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1437	2443393.28	1977 Sep 6 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1438	2443393.33	1977 Sep 6 2002:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1977-W1439	2443393.38	1977 Sep 6 2100:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1440	2443393.42	1977 Sep 6 2207:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W1442	2443394.11	1977 Sep 7 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1977-A39	2443394.16	1977 Sep 7 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	45	-	-
1977-W1444	2443394.21	1977 Sep 7 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-Y323	2443394.25	1977 Sep 7 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	100	-	-
1977-W1445	2443394.26	1977 Sep 7 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1446	2443394.26	1977 Sep 7 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W1447	2443394.55	1977 Sep 8 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W1448	2443395.25	1977 Sep 8 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1449	2443396.11	1977 Sep 9 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1451	2443396.21	1977 Sep 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W1452	2443396.25	1977 Sep 9 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-A40	2443396.27	1977 Sep 9 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1977-W1453	2443396.39	1977 Sep 9 2125:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1454	2443396.40	1977 Sep 9 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	52	-	-
1977-W1455	2443396.41	1977 Sep 9 2145:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1456	2443399.17	1977 Sep 12 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1457	2443399.21	1977 Sep 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1458	2443399.37	1977 Sep 12 2053:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W1459	2443399.55	1977 Sep 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1460	2443400.17	1977 Sep 13 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1462	2443401.08	1977 Sep 14 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1464	2443401.15	1977 Sep 14 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	76	-	-
1977-W1465	2443401.15	1977 Sep 14 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1977-Y327	2443401.25	1977 Sep 14 1753:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1466	2443401.25	1977 Sep 14 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-Y328	2443401.26	1977 Sep 14 1820:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W1468	2443401.27	1977 Sep 14 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1469	2443401.35	1977 Sep 14 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	67	-	-
1977-W1470	2443401.40	1977 Sep 14 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1977-W1471	2443401.41	1977 Sep 14 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1472	2443403.10	1977 Sep 16 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1473	2443403.12	1977 Sep 16 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1474	2443403.14	1977 Sep 16 1521:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W1476	2443403.25	1977 Sep 16 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1477	2443403.33	1977 Sep 16 1951:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	59	-	-
1977-Y329	2443403.38	1977 Sep 16 2103:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W1478	2443403.39	1977 Sep 16 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-Y330	2443403.60	1977 Sep 17 0221:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1977-W1479	2443406.10	1977 Sep 19 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W1480	2443406.11	1977 Sep 19 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	55	-	-
1977-W1481	2443406.16	1977 Sep 19 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1977-W1482	2443406.19	1977 Sep 19 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1484	2443406.28	1977 Sep 19 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1485	2443406.33	1977 Sep 19 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1486	2443406.34	1977 Sep 19 2003:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1977-W1487	2443407.25	1977 Sep 20 1753:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1488	2443408.10	1977 Sep 21 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W1489	2443408.11	1977 Sep 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1490	2443408.15	1977 Sep 21 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1493	2443408.21	1977 Sep 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-Y333	2443408.25	1977 Sep 21 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W1495	2443408.26	1977 Sep 21 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1496	2443408.39	1977 Sep 21 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-W1497	2443408.39	1977 Sep 21 2124:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W1498	2443408.55	1977 Sep 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	52	-	-
1977-W1500	2443409.26	1977 Sep 22 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-W1501	2443409.40	1977 Sep 22 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1502	2443409.42	1977 Sep 22 2207:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-Y334	2443410.04	1977 Sep 23 1256:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1503	2443410.08	1977 Sep 23 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W1504	2443410.09	1977 Sep 23 1412:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1506	2443410.12	1977 Sep 23 1500:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	56	-	-
1977-W1507	2443410.15	1977 Sep 23 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1977-W1508	2443410.21	1977 Sep 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	53	-	-
1977-W1509	2443410.25	1977 Sep 23 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1510	2443411.21	1977 Sep 24 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W1511	2443412.21	1977 Sep 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1512	2443413.09	1977 Sep 26 1412:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1513	2443413.16	1977 Sep 26 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W1514	2443413.17	1977 Sep 26 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1977-W1516	2443413.20	1977 Sep 26 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1517	2443413.21	1977 Sep 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1518	2443413.37	1977 Sep 26 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1977-W1519	2443414.25	1977 Sep 27 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1520	2443414.33	1977 Sep 27 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1521	2443414.43	1977 Sep 27 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1523	2443415.08	1977 Sep 28 1400:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	52	-	-
1977-W1526	2443415.20	1977 Sep 28 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	53	-	-
1977-W1527	2443415.21	1977 Sep 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W1528	2443415.23	1977 Sep 28 1736:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1977-W1529	2443415.28	1977 Sep 28 1844:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-Y340	2443415.35	1977 Sep 28 2017:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1530	2443415.35	1977 Sep 28 2026:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	71	-	-
1977-Y341	2443415.35	1977 Sep 28 2030:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1977-W1531	2443415.37	1977 Sep 28 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W1532	2443416.25	1977 Sep 29 1807:00	Super Loki	-	-	Chaff	-	-	-	WS	-	-	-	55	-	-
1977-W1533	2443416.31	1977 Sep 29 1930:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	68	-	-
1977-W1534	2443416.43	1977 Sep 29 2219:59	Super Loki	-	-	Chaff	-	-	-	WS	-	-	-	54	-	-
1977-W1537	2443416.59	1977 Sep 30 0210:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1538	2443417.04	1977 Sep 30 1301:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1977-W1539	2443417.11	1977 Sep 30 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W1540	2443417.15	1977 Sep 30 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1542	2443417.20	1977 Sep 30 1647:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-Y344	2443417.22	1977 Sep 30 1722:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-W1543	2443417.24	1977 Sep 30 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1544	2443417.25	1977 Sep 30 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1545	2443417.33	1977 Sep 30 1953:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1546	2443417.33	1977 Sep 30 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W1547	2443420.12	1977 Oct 3 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1548	2443420.13	1977 Oct 3 1504:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1549	2443420.22	1977 Oct 3 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1550	2443420.28	1977 Oct 3 1846:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1551	2443420.38	1977 Oct 3 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1552	2443420.52	1977 Oct 4 0032:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1977-W1553	2443421.25	1977 Oct 4 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1554	2443422.12	1977 Oct 5 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W1555	2443422.14	1977 Oct 5 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1557	2443422.16	1977 Oct 5 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1559	2443422.21	1977 Oct 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-Y350	2443422.33	1977 Oct 5 1954:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1977-A41	2443422.33	1977 Oct 5 2000:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	48	-	-
1977-W1560	2443422.35	1977 Oct 5 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-W1561	2443422.41	1977 Oct 5 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1562	2443424.14	1977 Oct 7 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W1563	2443424.17	1977 Oct 7 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1565	2443424.21	1977 Oct 7 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	67	-	-
1977-W1566	2443424.38	1977 Oct 7 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-W1567	2443424.38	1977 Oct 7 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1568	2443424.57	1977 Oct 8 0144:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1571	2443427.17	1977 Oct 10 1607:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1572	2443428.21	1977 Oct 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1573	2443428.33	1977 Oct 11 1954:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1574	2443428.38	1977 Oct 11 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1575	2443428.38	1977 Oct 11 2100:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1576	2443428.56	1977 Oct 12 0127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1977-W1577	2443429.15	1977 Oct 12 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1578	2443429.16	1977 Oct 12 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1581	2443429.21	1977 Oct 12 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-Y358	2443429.22	1977 Oct 12 1715:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1582	2443429.23	1977 Oct 12 1725:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y359	2443429.26	1977 Oct 12 1817:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y360	2443429.39	1977 Oct 12 2122:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	87	-	-
1977-W1583	2443429.41	1977 Oct 12 2151:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W1584	2443429.56	1977 Oct 13 0121:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1977-W1586	2443430.18	1977 Oct 13 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W1587	2443430.33	1977 Oct 13 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1588	2443430.41	1977 Oct 13 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1977-W1589	2443431.14	1977 Oct 14 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1590	2443431.21	1977 Oct 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	59	-	-
1977-W1591	2443431.36	1977 Oct 14 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	57	-	-
1977-W1594	2443434.16	1977 Oct 17 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1595	2443434.19	1977 Oct 17 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W1596	2443434.21	1977 Oct 17 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	59	-	-
1977-W1597	2443434.28	1977 Oct 17 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1598	2443434.42	1977 Oct 17 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1599	2443434.42	1977 Oct 17 2201:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	64	-	-
1977-W1600	2443434.56	1977 Oct 18 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1977-W1602	2443436.10	1977 Oct 19 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W1605	2443436.21	1977 Oct 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-Y365	2443436.23	1977 Oct 19 1730:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1606	2443436.24	1977 Oct 19 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1607	2443436.25	1977 Oct 19 1800:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1977-W1608	2443436.26	1977 Oct 19 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1977-Y366	2443436.37	1977 Oct 19 2054:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1977-W1609	2443436.39	1977 Oct 19 2123:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	73	-	-
1977-W1610	2443436.39	1977 Oct 19 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-A42	2443436.53	1977 Oct 20 0040:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1977-W1612	2443436.55	1977 Oct 20 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1977-W1614	2443437.12	1977 Oct 20 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1615	2443437.25	1977 Oct 20 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1617	2443438.15	1977 Oct 21 1529:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W1618	2443438.15	1977 Oct 21 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1977-W1619	2443438.21	1977 Oct 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-W1620	2443438.23	1977 Oct 21 1736:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1622	2443438.31	1977 Oct 21 1931:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1623	2443438.33	1977 Oct 21 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1626	2443441.11	1977 Oct 24 1443:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-A43	2443441.26	1977 Oct 24 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	43	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1627	2443442.14	1977 Oct 25 1526:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1628	2443442.21	1977 Oct 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1629	2443442.27	1977 Oct 25 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1630	2443442.35	1977 Oct 25 2020:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	65	-	-
1977-W1631	2443442.59	1977 Oct 26 0212:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1977-W1632	2443443.09	1977 Oct 26 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1977-W1633	2443443.13	1977 Oct 26 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-W1634	2443443.14	1977 Oct 26 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1977-W1636	2443443.24	1977 Oct 26 1749:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-Y374	2443443.30	1977 Oct 26 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1637	2443443.31	1977 Oct 26 1924:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y375	2443443.31	1977 Oct 26 1927:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1977-W1638	2443443.32	1977 Oct 26 1936:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	75	-	-
1977-Y376	2443443.34	1977 Oct 26 2015:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y377	2443443.35	1977 Oct 26 2018:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y378	2443443.38	1977 Oct 26 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1977-W1639	2443443.39	1977 Oct 26 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1977-W1641	2443444.14	1977 Oct 27 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1642	2443445.15	1977 Oct 28 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1643	2443445.17	1977 Oct 28 1601:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1644	2443445.18	1977 Oct 28 1615:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W1646	2443445.19	1977 Oct 28 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1647	2443445.21	1977 Oct 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	66	-	-
1977-A44	2443445.53	1977 Oct 29 0040:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1977-W1648	2443445.56	1977 Oct 29 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1654	2443448.13	1977 Oct 31 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1656	2443448.19	1977 Oct 31 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1657	2443448.21	1977 Oct 31 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1658	2443448.21	1977 Oct 31 1707:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1659	2443448.25	1977 Oct 31 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1660	2443448.35	1977 Oct 31 2030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1661	2443449.34	1977 Nov 1 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W1662	2443449.42	1977 Nov 1 2204:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	64	-	-
1977-W1663	2443450.12	1977 Nov 2 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W1664	2443450.15	1977 Nov 2 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1977-W1666	2443450.18	1977 Nov 2 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1977-W1668	2443450.21	1977 Nov 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-Y384	2443450.30	1977 Nov 2 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y385	2443450.33	1977 Nov 2 1952:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	86	-	-
1977-W1669	2443450.35	1977 Nov 2 2026:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1670	2443450.38	1977 Nov 2 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W1671	2443450.57	1977 Nov 3 0146:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W1672	2443451.39	1977 Nov 3 2123:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	62	-	-
1977-W1673	2443451.44	1977 Nov 3 2230:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	58	-	-
1977-W1674	2443452.19	1977 Nov 4 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-Y386	2443452.33	1977 Nov 4 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-A45	2443452.34	1977 Nov 4 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	43	-	-
1977-Y387	2443452.38	1977 Nov 4 2100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y388	2443452.40	1977 Nov 4 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1977-W1676	2443452.41	1977 Nov 4 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1977-Y389	2443452.42	1977 Nov 4 2159:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y390	2443452.46	1977 Nov 4 2300:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	98	-	-
1977-W1677	2443452.50	1977 Nov 5 0000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-Y391	2443452.52	1977 Nov 5 0030:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1678	2443452.54	1977 Nov 5 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	53	-	-
1977-W1679	2443452.55	1977 Nov 5 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	68	-	-
1977-Y392	2443452.67	1977 Nov 5 0359:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y393	2443452.67	1977 Nov 5 0409:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y394	2443452.79	1977 Nov 5 0700:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y395	2443452.83	1977 Nov 5 0800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y396	2443452.92	1977 Nov 5 0959:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y397	2443452.96	1977 Nov 5 1100:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1680	2443453.01	1977 Nov 5 1214:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1977-Y398	2443453.04	1977 Nov 5 1259:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1681	2443453.05	1977 Nov 5 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y400	2443453.17	1977 Nov 5 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-Y401	2443453.17	1977 Nov 5 1609:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y402	2443453.29	1977 Nov 5 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y403	2443453.33	1977 Nov 5 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y404	2443453.46	1977 Nov 5 2300:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1682	2443455.16	1977 Nov 7 1556:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1684	2443455.21	1977 Nov 7 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1685	2443455.22	1977 Nov 7 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1686	2443455.22	1977 Nov 7 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1977-W1687	2443455.26	1977 Nov 7 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1688	2443455.35	1977 Nov 7 2026:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W1689	2443455.41	1977 Nov 7 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W1690	2443455.55	1977 Nov 8 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1977-A46	2443456.55	1977 Nov 9 0115:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1977-W1693	2443457.14	1977 Nov 9 1521:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1694	2443457.15	1977 Nov 9 1533:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W1696	2443457.19	1977 Nov 9 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1697	2443457.20	1977 Nov 9 1652:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1699	2443457.20	1977 Nov 9 1654:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	77	-	-
1977-Y410	2443457.21	1977 Nov 9 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	96	-	-
1977-W1700	2443457.22	1977 Nov 9 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1701	2443457.22	1977 Nov 9 1715:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1977-Y411	2443457.25	1977 Nov 9 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y412	2443457.25	1977 Nov 9 1802:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1702	2443457.39	1977 Nov 9 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	62	-	-
1977-Y414	2443457.40	1977 Nov 9 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	85	-	-
1977-W1703	2443457.67	1977 Nov 10 0404:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	75	-	-
1977-W1704	2443458.15	1977 Nov 10 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1706	2443458.29	1977 Nov 10 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1707	2443459.09	1977 Nov 11 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1708	2443459.12	1977 Nov 11 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1977-W1709	2443459.31	1977 Nov 11 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1710	2443459.33	1977 Nov 11 2002:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1711	2443459.79	1977 Nov 12 0659:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	50	-	-
1977-W1712	2443460.73	1977 Nov 13 0530:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1713	2443460.93	1977 Nov 13 1019:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	67	-	-
1977-W1714	2443461.03	1977 Nov 13 1245:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	59	-	-
1977-W1715	2443462.19	1977 Nov 14 1630:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1716	2443462.20	1977 Nov 14 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1717	2443462.21	1977 Nov 14 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1719	2443462.25	1977 Nov 14 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1720	2443462.33	1977 Nov 14 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W1721	2443462.43	1977 Nov 14 2212:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1977-A47	2443462.55	1977 Nov 15 0118:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	48	-	-
1977-W1722	2443462.90	1977 Nov 15 0940:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	55	-	-
1977-W1724	2443463.17	1977 Nov 15 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W1726	2443464.09	1977 Nov 16 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1727	2443464.13	1977 Nov 16 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1977-Y421	2443464.17	1977 Nov 16 1604:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W1730	2443464.17	1977 Nov 16 1610:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1731	2443464.18	1977 Nov 16 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y422	2443464.21	1977 Nov 16 1703:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	87	-	-
1977-Y423	2443464.21	1977 Nov 16 1704:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y424	2443464.21	1977 Nov 16 1708:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1735	2443464.30	1977 Nov 16 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1736	2443464.39	1977 Nov 16 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1977-W1737	2443464.50	1977 Nov 16 2356:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1738	2443464.57	1977 Nov 17 0144:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1977-W1739	2443464.94	1977 Nov 17 1030:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	73	-	-
1977-W1741	2443465.21	1977 Nov 17 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1742	2443465.25	1977 Nov 17 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1743	2443465.41	1977 Nov 17 2152:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1977-W1744	2443466.07	1977 Nov 18 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1745	2443466.16	1977 Nov 18 1544:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1746	2443466.18	1977 Nov 18 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1977-W1747	2443466.21	1977 Nov 18 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1748	2443466.30	1977 Nov 18 1910:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1977-W1749	2443466.93	1977 Nov 19 1014:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1977-W1750	2443469.13	1977 Nov 21 1512:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	58	-	-
1977-W1751	2443469.19	1977 Nov 21 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1752	2443469.20	1977 Nov 21 1654:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1753	2443469.21	1977 Nov 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-W1754	2443469.34	1977 Nov 21 2004:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-W1756	2443470.37	1977 Nov 22 2052:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1977-W1757	2443470.42	1977 Nov 22 2204:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	63	-	-
1977-W1758	2443470.43	1977 Nov 22 2215:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1759	2443471.16	1977 Nov 23 1545:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1977-W1760	2443471.20	1977 Nov 23 1646:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1977-W1761	2443471.20	1977 Nov 23 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1763	2443471.23	1977 Nov 23 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1977-Y434	2443471.25	1977 Nov 23 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1764	2443471.26	1977 Nov 23 1810:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-Y435	2443471.29	1977 Nov 23 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y436	2443471.29	1977 Nov 23 1902:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y437	2443471.33	1977 Nov 23 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1765	2443471.35	1977 Nov 23 2025:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	71	-	-
1977-W1766	2443471.57	1977 Nov 24 0140:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1977-W1767	2443471.59	1977 Nov 24 0215:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1977-W1768	2443473.12	1977 Nov 25 1449:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1977-W1770	2443473.25	1977 Nov 25 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1771	2443473.56	1977 Nov 26 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	58	-	-
1977-W1774	2443476.11	1977 Nov 28 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W1775	2443476.20	1977 Nov 28 1642:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1977-W1778	2443476.21	1977 Nov 28 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1780	2443476.38	1977 Nov 28 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1977-W1781	2443476.38	1977 Nov 28 2110:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	60	-	-
1977-W1782	2443476.57	1977 Nov 29 0134:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	66	-	-
1977-W1785	2443477.21	1977 Nov 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1977-W1786	2443477.50	1977 Nov 29 2359:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	70	-	-
1977-W1795	2443478.14	1977 Nov 30 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	57	-	-
1977-Y448	2443478.17	1977 Nov 30 1609:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-Y449	2443478.19	1977 Nov 30 1626:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1977-W1797	2443478.19	1977 Nov 30 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1977-W1798	2443478.20	1977 Nov 30 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1977-W1799	2443478.21	1977 Nov 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-Y450	2443478.32	1977 Nov 30 1937:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1800	2443478.32	1977 Nov 30 1947:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W1801	2443478.37	1977 Nov 30 2049:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	72	-	-
1977-Y451	2443478.38	1977 Nov 30 2110:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1802	2443478.39	1977 Nov 30 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-Y452	2443478.42	1977 Nov 30 2209:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1803	2443479.27	1977 Dec 1 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	60	-	-
1977-W1804	2443479.29	1977 Dec 1 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W1805	2443479.35	1977 Dec 1 2022:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1977-W1808	2443480.19	1977 Dec 2 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1809	2443480.22	1977 Dec 2 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1810	2443480.33	1977 Dec 2 1951:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1811	2443480.36	1977 Dec 2 2040:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	54	-	-
1977-W1812	2443480.41	1977 Dec 2 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1977-W1813	2443480.57	1977 Dec 3 0140:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1977-W1814	2443480.61	1977 Dec 3 0232:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1977-W1815	2443483.11	1977 Dec 5 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	55	-	-
1977-W1816	2443483.19	1977 Dec 5 1631:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1977-W1818	2443483.21	1977 Dec 5 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1819	2443483.22	1977 Dec 5 1717:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1820	2443483.26	1977 Dec 5 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1821	2443483.40	1977 Dec 5 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1822	2443484.19	1977 Dec 6 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1977-W1824	2443484.33	1977 Dec 6 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1977-W1827	2443485.14	1977 Dec 7 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1977-Y460	2443485.19	1977 Dec 7 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1977-W1829	2443485.19	1977 Dec 7 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1977-W1830	2443485.19	1977 Dec 7 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1831	2443485.20	1977 Dec 7 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1832	2443485.20	1977 Dec 7 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	51	-	-
1977-W1833	2443485.29	1977 Dec 7 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1834	2443485.33	1977 Dec 7 1953:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	79	-	-
1977-W1835	2443486.07	1977 Dec 8 1340:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1836	2443486.25	1977 Dec 8 1755:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1977-W1837	2443486.41	1977 Dec 8 2145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1838	2443487.15	1977 Dec 9 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1977-W1840	2443487.21	1977 Dec 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	50	-	-
1977-W1841	2443487.29	1977 Dec 9 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1977-W1842	2443487.33	1977 Dec 9 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1843	2443490.16	1977 Dec 12 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	54	-	-
1977-W1844	2443490.17	1977 Dec 12 1600:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1846	2443490.20	1977 Dec 12 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1847	2443490.22	1977 Dec 12 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1848	2443490.22	1977 Dec 12 1721:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	68	-	-
1977-W1849	2443490.36	1977 Dec 12 2035:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	66	-	-
1977-W1851	2443491.29	1977 Dec 13 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1977-W1852	2443491.33	1977 Dec 13 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1977-W1853	2443491.34	1977 Dec 13 2006:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-W1854	2443491.43	1977 Dec 13 2218:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1977-W1857	2443492.13	1977 Dec 14 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1858	2443492.18	1977 Dec 14 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1859	2443492.18	1977 Dec 14 1619:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W1861	2443492.21	1977 Dec 14 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1863	2443492.25	1977 Dec 14 1807:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1977-Y469	2443492.29	1977 Dec 14 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	99	-	-
1977-W1864	2443492.30	1977 Dec 14 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1977-W1865	2443492.36	1977 Dec 14 2037:00	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	70	-	-
1977-W1866	2443492.59	1977 Dec 15 0206:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-W1867	2443493.15	1977 Dec 15 1535:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1977-W1868	2443493.17	1977 Dec 15 1603:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1870	2443493.26	1977 Dec 15 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1977-W1871	2443493.42	1977 Dec 15 2159:59	Rocketsonde	-	-	Starute,Datasonde	-	-	-	PF	-	-	-	62	-	-
1977-W1872	2443493.49	1977 Dec 15 2349:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1977-W1873	2443494.19	1977 Dec 16 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1874	2443494.21	1977 Dec 16 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1977-W1877	2443494.29	1977 Dec 16 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1878	2443494.33	1977 Dec 16 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1977-W1879	2443497.21	1977 Dec 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1880	2443497.22	1977 Dec 19 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1881	2443497.26	1977 Dec 19 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1882	2443497.55	1977 Dec 20 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1883	2443498.10	1977 Dec 20 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1977-W1887	2443499.13	1977 Dec 21 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1977-W1888	2443499.13	1977 Dec 21 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W1889	2443499.21	1977 Dec 21 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-Y479	2443499.25	1977 Dec 21 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1977-W1891	2443499.25	1977 Dec 21 1804:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1977-W1892	2443499.26	1977 Dec 21 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1977-W1893	2443499.39	1977 Dec 21 2121:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1894	2443499.46	1977 Dec 21 2302:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1977-W1895	2443500.18	1977 Dec 22 1622:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1977-W1897	2443501.10	1977 Dec 23 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1977-W1898	2443501.11	1977 Dec 23 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1977-W1900	2443501.21	1977 Dec 23 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1977-W1901	2443501.26	1977 Dec 23 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1977-W1902	2443501.55	1977 Dec 24 0115:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1977-W1903	2443505.57	1977 Dec 28 0137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1977-Y490	2443506.25	1977 Dec 28 1804:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-A52	2443506.26	1977 Dec 28 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	47	-	-
1977-W1906	2443507.40	1977 Dec 29 2132:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1977-W1907	2443508.10	1977 Dec 30 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1977-W1908	2443508.17	1977 Dec 30 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1977-W1909	2443508.19	1977 Dec 30 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W996	2443777.11	1978 Sep 25 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W997	2443777.20	1978 Sep 25 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-W998	2443777.21	1978 Sep 25 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W999	2443777.25	1978 Sep 25 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	53	-	-
1978-W1000	2443777.27	1978 Sep 25 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1001	2443777.39	1978 Sep 25 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-W1002	2443777.42	1978 Sep 25 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1978-W1004	2443779.10	1978 Sep 27 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	64	-	-
1978-W1006	2443779.20	1978 Sep 27 1643:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-Y361	2443779.20	1978 Sep 27 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-Y362	2443779.21	1978 Sep 27 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1007	2443779.22	1978 Sep 27 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W1008	2443779.22	1978 Sep 27 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1978-W1009	2443779.25	1978 Sep 27 1756:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y363	2443779.29	1978 Sep 27 1856:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	85	-	-
1978-Y364	2443779.30	1978 Sep 27 1907:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1010	2443779.31	1978 Sep 27 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W1011	2443779.51	1978 Sep 28 0020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	68	-	-
1978-W1013	2443781.12	1978 Sep 29 1454:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1978-W1015	2443781.21	1978 Sep 29 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	58	-	-
1978-W1016	2443781.22	1978 Sep 29 1722:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	77	-	-
1978-W1017	2443781.23	1978 Sep 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W1018	2443781.27	1978 Sep 29 1832:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1022	2443781.55	1978 Sep 30 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W1023	2443784.15	1978 Oct 2 1532:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W1024	2443784.16	1978 Oct 2 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1026	2443784.21	1978 Oct 2 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W1027	2443784.25	1978 Oct 2 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W1028	2443784.26	1978 Oct 2 1811:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1978-W1029	2443784.55	1978 Oct 3 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-Y368	2443786.09	1978 Oct 4 1414:00	Rocketsonde	-	-	AN/DMQ-9	-	-	-	WI	-	-	-	90	-	-
1978-W1030	2443786.14	1978 Oct 4 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1978-W1031	2443786.18	1978 Oct 4 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W1032	2443786.21	1978 Oct 4 1708:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W1033	2443786.26	1978 Oct 4 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-Y369	2443786.31	1978 Oct 4 1922:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W1034	2443786.31	1978 Oct 4 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1035	2443786.34	1978 Oct 4 2003:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W1036	2443786.48	1978 Oct 4 2336:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W1038	2443788.18	1978 Oct 6 1617:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1039	2443788.21	1978 Oct 6 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1040	2443788.26	1978 Oct 6 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W1041	2443788.55	1978 Oct 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1978-W1042	2443791.13	1978 Oct 9 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W1043	2443792.22	1978 Oct 10 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W1044	2443792.25	1978 Oct 10 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-A50	2443792.36	1978 Oct 10 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1978-W1045	2443792.39	1978 Oct 10 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1978-W1047	2443793.10	1978 Oct 11 1430:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	61	-	-
1978-W1048	2443793.12	1978 Oct 11 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W1049	2443793.12	1978 Oct 11 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-Y377	2443793.17	1978 Oct 11 1559:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1050	2443793.18	1978 Oct 11 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W1051	2443793.19	1978 Oct 11 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1052	2443793.21	1978 Oct 11 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W1053	2443793.30	1978 Oct 11 1907:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W1054	2443793.39	1978 Oct 11 2122:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-Y378	2443793.40	1978 Oct 11 2130:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1978-W1055	2443793.42	1978 Oct 11 2207:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-W1056	2443795.09	1978 Oct 13 1404:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1058	2443795.14	1978 Oct 13 1525:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1978-W1059	2443795.18	1978 Oct 13 1615:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1978-W1060	2443795.22	1978 Oct 13 1713:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W1061	2443795.25	1978 Oct 13 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1062	2443795.36	1978 Oct 13 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W1063	2443795.41	1978 Oct 13 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W1064	2443798.08	1978 Oct 16 1352:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W1065	2443798.13	1978 Oct 16 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W1066	2443798.27	1978 Oct 16 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W1067	2443798.32	1978 Oct 16 1935:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-W1068	2443798.38	1978 Oct 16 2113:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-W1069	2443798.40	1978 Oct 16 2137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W1070	2443799.05	1978 Oct 17 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-W1071	2443800.10	1978 Oct 18 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-Y384	2443800.11	1978 Oct 18 1437:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1978-W1072	2443800.13	1978 Oct 18 1502:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1978-W1073	2443800.14	1978 Oct 18 1527:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-Y385	2443800.21	1978 Oct 18 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1075	2443800.22	1978 Oct 18 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	72	-	-
1978-W1079	2443800.27	1978 Oct 18 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1978-Y386	2443800.38	1978 Oct 18 2100:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W1080	2443800.41	1978 Oct 18 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-Y387	2443800.59	1978 Oct 19 0212:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1978-W1081	2443801.05	1978 Oct 19 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-A51	2443801.12	1978 Oct 19 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	36	-	-
1978-W1082	2443801.39	1978 Oct 19 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W1083	2443802.15	1978 Oct 20 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W1084	2443802.21	1978 Oct 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W1085	2443802.21	1978 Oct 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1978-Y388	2443802.23	1978 Oct 20 1732:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W1086	2443802.29	1978 Oct 20 1901:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-W1087	2443802.38	1978 Oct 20 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1978-W1088	2443805.13	1978 Oct 23 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W1089	2443805.21	1978 Oct 23 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W1090	2443805.24	1978 Oct 23 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1978-W1091	2443805.26	1978 Oct 23 1811:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W1092	2443806.40	1978 Oct 24 2133:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1978-Y392	2443807.11	1978 Oct 25 1437:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1093	2443807.14	1978 Oct 25 1519:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	64	-	-
1978-W1095	2443807.17	1978 Oct 25 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-W1096	2443807.21	1978 Oct 25 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-Y393	2443807.25	1978 Oct 25 1800:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1097	2443807.26	1978 Oct 25 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W1098	2443807.35	1978 Oct 25 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1978-Y394	2443807.39	1978 Oct 25 2127:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W1099	2443807.42	1978 Oct 25 2203:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1978-W1100	2443807.48	1978 Oct 25 2337:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W1101	2443808.21	1978 Oct 26 1701:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1103	2443809.14	1978 Oct 27 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W1104	2443809.21	1978 Oct 27 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-W1105	2443809.27	1978 Oct 27 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1978-W1106	2443809.28	1978 Oct 27 1843:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W1107	2443809.55	1978 Oct 28 0118:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1108	2443812.12	1978 Oct 30 1452:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1978-W1109	2443812.21	1978 Oct 30 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1110	2443812.30	1978 Oct 30 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W1111	2443812.31	1978 Oct 30 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W1118	2443812.55	1978 Oct 31 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W1120	2443814.12	1978 Nov 1 1455:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1978-Y399	2443814.14	1978 Nov 1 1517:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	85	-	-
1978-W1122	2443814.19	1978 Nov 1 1627:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1978-Y401	2443814.21	1978 Nov 1 1700:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W1123	2443814.21	1978 Nov 1 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-Y402	2443814.29	1978 Nov 1 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1124	2443814.30	1978 Nov 1 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W1125	2443814.32	1978 Nov 1 1945:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1978-W1126	2443814.54	1978 Nov 2 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1129	2443816.11	1978 Nov 3 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W1131	2443816.30	1978 Nov 3 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1132	2443816.31	1978 Nov 3 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1978-W1133	2443819.08	1978 Nov 6 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1134	2443819.09	1978 Nov 6 1409:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W1136	2443819.22	1978 Nov 6 1719:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1137	2443819.29	1978 Nov 6 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W1138	2443819.40	1978 Nov 6 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1978-Y404	2443819.55	1978 Nov 7 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1978-W1141	2443821.12	1978 Nov 8 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W1142	2443821.15	1978 Nov 8 1531:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-Y408	2443821.19	1978 Nov 8 1630:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1978-W1143	2443821.20	1978 Nov 8 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W1145	2443821.21	1978 Nov 8 1655:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1146	2443821.24	1978 Nov 8 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	65	-	-
1978-Y409	2443821.40	1978 Nov 8 2129:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W1147	2443821.41	1978 Nov 8 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1978-W1148	2443821.47	1978 Nov 8 2314:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W1149	2443822.21	1978 Nov 9 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1150	2443822.21	1978 Nov 9 1703:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-A52	2443822.29	1978 Nov 9 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	43	-	-
1978-W1154	2443823.16	1978 Nov 10 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	52	-	-
1978-W1155	2443823.20	1978 Nov 10 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1978-W1156	2443826.13	1978 Nov 13 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	61	-	-
1978-W1159	2443826.22	1978 Nov 13 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1160	2443826.28	1978 Nov 13 1849:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	63	-	-
1978-W1161	2443827.08	1978 Nov 14 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-W1164	2443828.12	1978 Nov 15 1448:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W1166	2443828.21	1978 Nov 15 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-
1978-Y415	2443828.21	1978 Nov 15 1701:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1167	2443828.24	1978 Nov 15 1742:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1978-Y416	2443828.27	1978 Nov 15 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1168	2443828.28	1978 Nov 15 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-Y417	2443828.37	1978 Nov 15 2053:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1978-W1169	2443828.39	1978 Nov 15 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1978-W1170	2443828.47	1978 Nov 15 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W1172	2443829.29	1978 Nov 16 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1978-W1173	2443829.56	1978 Nov 17 0124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1978-W1176	2443830.19	1978 Nov 17 1633:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	60	-	-
1978-W1177	2443830.21	1978 Nov 17 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-Y418	2443830.27	1978 Nov 17 1827:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1978-W1178	2443830.29	1978 Nov 17 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-W1179	2443830.40	1978 Nov 17 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1180	2443830.44	1978 Nov 17 2226:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1978-W1184	2443833.09	1978 Nov 20 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W1185	2443833.13	1978 Nov 20 1511:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W1187	2443833.18	1978 Nov 20 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-W1188	2443833.19	1978 Nov 20 1632:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1189	2443833.21	1978 Nov 20 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	62	-	-
1978-W1190	2443833.31	1978 Nov 20 1921:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W1191	2443833.55	1978 Nov 21 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1194	2443835.08	1978 Nov 22 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	60	-	-
1978-W1196	2443835.12	1978 Nov 22 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-Y422	2443835.13	1978 Nov 22 1511:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1197	2443835.15	1978 Nov 22 1535:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-W1199	2443835.20	1978 Nov 22 1641:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1200	2443835.22	1978 Nov 22 1721:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	69	-	-
1978-Y423	2443835.33	1978 Nov 22 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1201	2443835.39	1978 Nov 22 2120:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W1202	2443835.40	1978 Nov 22 2142:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1978-W1204	2443837.13	1978 Nov 24 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	57	-	-
1978-W1205	2443837.18	1978 Nov 24 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1206	2443837.22	1978 Nov 24 1718:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1978-W1207	2443837.56	1978 Nov 25 0120:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1209	2443840.09	1978 Nov 27 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W1210	2443840.14	1978 Nov 27 1523:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1978-W1212	2443840.22	1978 Nov 27 1717:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	52	-	-
1978-W1213	2443840.30	1978 Nov 27 1909:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	77	-	-
1978-W1214	2443840.34	1978 Nov 27 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W1215	2443840.45	1978 Nov 27 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1978-W1216	2443840.66	1978 Nov 28 0345:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-Y425	2443842.12	1978 Nov 29 1459:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1221	2443842.23	1978 Nov 29 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1222	2443842.24	1978 Nov 29 1743:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1978-Y427	2443842.30	1978 Nov 29 1906:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1223	2443842.31	1978 Nov 29 1929:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1978-A54	2443842.40	1978 Nov 29 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1978-W1224	2443842.49	1978 Nov 29 2343:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	60	-	-
1978-W1225	2443843.08	1978 Nov 30 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHER	-	-	-	61	-	-
1978-W1227	2443843.40	1978 Nov 30 2140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1228	2443844.14	1978 Dec 1 1515:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	58	-	-
1978-W1229	2443844.27	1978 Dec 1 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W1231	2443844.33	1978 Dec 1 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1232	2443847.17	1978 Dec 4 1557:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1978-W1233	2443847.29	1978 Dec 4 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W1234	2443847.38	1978 Dec 4 2101:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1978-Y430	2443847.55	1978 Dec 5 0118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1978-W1235	2443848.09	1978 Dec 5 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W1236	2443848.22	1978 Dec 5 1710:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	69	-	-
1978-W1237	2443848.29	1978 Dec 5 1851:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-W1238	2443848.29	1978 Dec 5 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1978-Y435	2443849.14	1978 Dec 6 1514:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1978-W1239	2443849.14	1978 Dec 6 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1978-W1240	2443849.15	1978 Dec 6 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	71	-	-
1978-Y436	2443849.25	1978 Dec 6 1756:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	88	-	-
1978-W1242	2443849.26	1978 Dec 6 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1978-Y437	2443849.35	1978 Dec 6 2030:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1243	2443849.36	1978 Dec 6 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W1244	2443849.44	1978 Dec 6 2230:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W1245	2443850.28	1978 Dec 7 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	68	-	-
1978-W1246	2443850.29	1978 Dec 7 1854:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1978-W1248	2443850.41	1978 Dec 7 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1978-W1249	2443851.18	1978 Dec 8 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W1251	2443851.34	1978 Dec 8 2012:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1978-W1252	2443851.40	1978 Dec 8 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1978-W1253	2443851.41	1978 Dec 8 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1978-W1254	2443851.46	1978 Dec 8 2303:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	61	-	-
1978-W1255	2443854.13	1978 Dec 11 1508:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1978-W1257	2443854.33	1978 Dec 11 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1978-W1258	2443854.41	1978 Dec 11 2156:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	58	-	-
1978-W1260	2443855.33	1978 Dec 12 1951:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W1261	2443855.38	1978 Dec 12 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1978-W1262	2443856.15	1978 Dec 13 1542:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	66	-	-
1978-W1263	2443856.17	1978 Dec 13 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1978-W1264	2443856.31	1978 Dec 13 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	69	-	-
1978-W1265	2443856.32	1978 Dec 13 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1978-W1266	2443856.33	1978 Dec 13 1955:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-Y442	2443856.40	1978 Dec 13 2133:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1978-W1267	2443856.43	1978 Dec 13 2215:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	67	-	-
1978-W1268	2443856.46	1978 Dec 13 2308:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1978-W1269	2443857.29	1978 Dec 14 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	58	-	-
1978-W1270	2443857.38	1978 Dec 14 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1978-W1271	2443857.70	1978 Dec 15 0441:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	70	-	-
1978-W1273	2443858.12	1978 Dec 15 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	63	-	-
1978-W1274	2443858.29	1978 Dec 15 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	67	-	-
1978-W1276	2443858.38	1978 Dec 15 2109:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	53	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W1278	2443861.16	1978 Dec 18 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1978-W1279	2443861.22	1978 Dec 18 1721:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-W1280	2443861.36	1978 Dec 18 2033:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1978-W1281	2443862.27	1978 Dec 19 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-W1283	2443863.11	1978 Dec 20 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1978-W1286	2443863.19	1978 Dec 20 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1978-W1287	2443863.20	1978 Dec 20 1641:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1978-Y448	2443863.27	1978 Dec 20 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1978-Y449	2443863.29	1978 Dec 20 1859:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1978-W1289	2443863.29	1978 Dec 20 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1978-W1290	2443863.30	1978 Dec 20 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	71	-	-
1978-W1291	2443863.47	1978 Dec 20 2315:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1978-W1293	2443864.29	1978 Dec 21 1856:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	61	-	-
1978-W1294	2443865.27	1978 Dec 22 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1978-W1295	2443865.31	1978 Dec 22 1922:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1978-A57	2443865.40	1978 Dec 22 2134:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1978-Y450	2443865.42	1978 Dec 22 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1978-W1296	2443870.27	1978 Dec 27 1830:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	66	-	-
1978-A58	2443870.28	1978 Dec 27 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	49	-	-
1978-W1297	2443870.40	1978 Dec 27 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1978-W1298	2443872.28	1978 Dec 29 1840:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	66	-	-
1979-W25	2443876.32	1979 Jan 2 1944:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W1003	2444101.26	1979 Aug 15 1817:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	59	-	-
1979-W1004	2444101.53	1979 Aug 16 0049:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-Y439	2444102.37	1979 Aug 16 2054:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	86	-	-
1979-W1005	2444102.39	1979 Aug 16 2118:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-A37	2444102.53	1979 Aug 17 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1979-W1006	2444103.04	1979 Aug 17 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W1007	2444103.06	1979 Aug 17 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W1008	2444103.13	1979 Aug 17 1507:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1009	2444103.25	1979 Aug 17 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	62	-	-
1979-W1010	2444103.28	1979 Aug 17 1847:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1979-W1011	2444103.55	1979 Aug 18 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W1012	2444104.67	1979 Aug 19 0403:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1013	2444106.05	1979 Aug 20 1310:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1014	2444106.06	1979 Aug 20 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	51	-	-
1979-W1015	2444106.10	1979 Aug 20 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1979-W1016	2444106.15	1979 Aug 20 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	59	-	-
1979-W1017	2444106.68	1979 Aug 21 0419:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1018	2444108.06	1979 Aug 22 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1019	2444108.07	1979 Aug 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1020	2444108.10	1979 Aug 22 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	62	-	-
1979-W1021	2444108.10	1979 Aug 22 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1022	2444108.20	1979 Aug 22 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	51	-	-
1979-A38	2444108.25	1979 Aug 22 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	49	-	-
1979-W1023	2444108.42	1979 Aug 22 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W1024	2444108.49	1979 Aug 22 2348:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W1025	2444109.33	1979 Aug 23 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W1026	2444110.06	1979 Aug 24 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W1027	2444110.07	1979 Aug 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1028	2444110.07	1979 Aug 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1029	2444110.15	1979 Aug 24 1540:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W1030	2444110.22	1979 Aug 24 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1031	2444110.55	1979 Aug 25 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1034	2444113.06	1979 Aug 27 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	68	-	-
1979-W1035	2444113.08	1979 Aug 27 1349:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-A39	2444113.13	1979 Aug 27 1511:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	49	-	-
1979-W1037	2444113.23	1979 Aug 27 1724:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1038	2444113.27	1979 Aug 27 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1039	2444113.67	1979 Aug 28 0407:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1040	2444114.27	1979 Aug 28 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W1041	2444114.36	1979 Aug 28 2035:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-W1042	2444114.61	1979 Aug 29 0245:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	67	-	-
1979-W1043	2444114.66	1979 Aug 29 0345:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	75	-	-
1979-W1044	2444114.67	1979 Aug 29 0357:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-Y457	2444115.10	1979 Aug 29 1417:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1045	2444115.10	1979 Aug 29 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-Y458	2444115.11	1979 Aug 29 1440:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	94	-	-
1979-W1046	2444115.11	1979 Aug 29 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1979-W1047	2444115.33	1979 Aug 29 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-Y460	2444115.44	1979 Aug 29 2227:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	89	-	-
1979-W1048	2444115.45	1979 Aug 29 2248:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1979-W1049	2444115.66	1979 Aug 30 0346:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1051	2444116.15	1979 Aug 30 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W1052	2444116.51	1979 Aug 31 0009:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1053	2444117.06	1979 Aug 31 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W1054	2444117.10	1979 Aug 31 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W1055	2444117.19	1979 Aug 31 1634:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-W1056	2444117.23	1979 Aug 31 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	60	-	-
1979-W1057	2444117.26	1979 Aug 31 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	69	-	-
1979-W1058	2444117.41	1979 Aug 31 2154:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W1059	2444117.55	1979 Sep 1 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1060	2444117.75	1979 Sep 1 0606:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1979-W1061	2444120.33	1979 Sep 3 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W1062	2444121.37	1979 Sep 4 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	51	-	-
1979-W1063	2444122.03	1979 Sep 5 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1064	2444122.06	1979 Sep 5 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1979-W1065	2444122.08	1979 Sep 5 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	65	-	-
1979-Y463	2444122.09	1979 Sep 5 1408:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1066	2444122.10	1979 Sep 5 1427:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W1067	2444122.12	1979 Sep 5 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1979-Y464	2444122.19	1979 Sep 5 1626:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W1068	2444122.21	1979 Sep 5 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1069	2444122.27	1979 Sep 5 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W1070	2444122.46	1979 Sep 5 2301:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1979-W1071	2444123.53	1979 Sep 7 0040:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1072	2444124.06	1979 Sep 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1073	2444124.06	1979 Sep 7 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	74	-	-
1979-W1074	2444124.10	1979 Sep 7 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1979-W1075	2444124.11	1979 Sep 7 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1076	2444124.17	1979 Sep 7 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-Y467	2444124.21	1979 Sep 7 1700:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1979-W1077	2444124.37	1979 Sep 7 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	57	-	-
1979-W1078	2444124.62	1979 Sep 8 0253:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1079	2444127.06	1979 Sep 10 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1080	2444127.07	1979 Sep 10 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1081	2444127.10	1979 Sep 10 1422:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1082	2444127.18	1979 Sep 10 1614:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W1083	2444127.19	1979 Sep 10 1629:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1084	2444127.27	1979 Sep 10 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1085	2444127.62	1979 Sep 11 0249:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1087	2444129.05	1979 Sep 12 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1088	2444129.06	1979 Sep 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1089	2444129.06	1979 Sep 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-Y472	2444129.09	1979 Sep 12 1410:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-Y473	2444129.10	1979 Sep 12 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W1090	2444129.11	1979 Sep 12 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W1091	2444129.12	1979 Sep 12 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y475	2444129.25	1979 Sep 12 1756:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W1092	2444129.26	1979 Sep 12 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W1093	2444129.33	1979 Sep 12 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	56	-	-
1979-W1094	2444129.36	1979 Sep 12 2045:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W1095	2444129.39	1979 Sep 12 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1979-W1096	2444129.46	1979 Sep 12 2258:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1097	2444129.83	1979 Sep 13 0800:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1979-W1098	2444129.89	1979 Sep 13 0914:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	63	-	-
1979-W1099	2444129.93	1979 Sep 13 1017:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	62	-	-
1979-W1100	2444130.00	1979 Sep 13 1200:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	59	-	-
1979-W1101	2444130.08	1979 Sep 13 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1979-W1102	2444130.18	1979 Sep 13 1614:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	62	-	-
1979-W1104	2444131.07	1979 Sep 14 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1105	2444131.08	1979 Sep 14 1351:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W1106	2444131.10	1979 Sep 14 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W1107	2444131.12	1979 Sep 14 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1108	2444131.29	1979 Sep 14 1903:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1109	2444131.53	1979 Sep 15 0045:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1979-W1110	2444131.55	1979 Sep 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W1111	2444134.05	1979 Sep 17 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1112	2444134.08	1979 Sep 17 1353:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	54	-	-
1979-W1113	2444134.12	1979 Sep 17 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1114	2444134.26	1979 Sep 17 1821:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-A40	2444134.34	1979 Sep 17 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1979-W1115	2444134.59	1979 Sep 18 0212:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	63	-	-
1979-W1116	2444135.19	1979 Sep 18 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1119	2444136.04	1979 Sep 19 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1120	2444136.10	1979 Sep 19 1425:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1979-W1121	2444136.11	1979 Sep 19 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1122	2444136.16	1979 Sep 19 1546:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	53	-	-
1979-W1123	2444136.27	1979 Sep 19 1824:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W1124	2444136.27	1979 Sep 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1979-Y482	2444136.28	1979 Sep 19 1838:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-Y483	2444136.43	1979 Sep 19 2215:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	88	-	-
1979-W1125	2444136.45	1979 Sep 19 2243:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1126	2444136.45	1979 Sep 19 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1979-W1127	2444137.24	1979 Sep 20 1738:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	54	-	-
1979-W1128	2444138.06	1979 Sep 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1129	2444138.06	1979 Sep 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W1130	2444138.11	1979 Sep 21 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W1131	2444138.16	1979 Sep 21 1555:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	62	-	-
1979-W1132	2444138.33	1979 Sep 21 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-W1133	2444138.55	1979 Sep 22 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1134	2444138.74	1979 Sep 22 0540:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1135	2444138.90	1979 Sep 22 0940:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1136	2444140.84	1979 Sep 24 0815:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1979-W1137	2444141.03	1979 Sep 24 1247:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1138	2444141.04	1979 Sep 24 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1139	2444141.07	1979 Sep 24 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1140	2444141.11	1979 Sep 24 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1141	2444141.16	1979 Sep 24 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-A42	2444141.39	1979 Sep 24 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	44	-	-
1979-W1142	2444141.62	1979 Sep 25 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-A43	2444142.33	1979 Sep 25 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1144	2444143.05	1979 Sep 26 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1979-W1145	2444143.06	1979 Sep 26 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-Y486	2444143.09	1979 Sep 26 1410:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W1147	2444143.11	1979 Sep 26 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1979-W1148	2444143.12	1979 Sep 26 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W1149	2444143.15	1979 Sep 26 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1150	2444143.16	1979 Sep 26 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1151	2444143.28	1979 Sep 26 1845:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1152	2444143.62	1979 Sep 27 0251:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1153	2444144.52	1979 Sep 28 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-W1154	2444144.64	1979 Sep 28 0314:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1979-W1155	2444145.05	1979 Sep 28 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1156	2444145.06	1979 Sep 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-Y487	2444145.10	1979 Sep 28 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	90	-	-
1979-W1157	2444145.11	1979 Sep 28 1433:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1158	2444145.17	1979 Sep 28 1609:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1159	2444145.26	1979 Sep 28 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1160	2444145.43	1979 Sep 28 2221:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-Y488	2444145.55	1979 Sep 29 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1979-W1161	2444145.64	1979 Sep 29 0314:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1162	2444148.05	1979 Oct 1 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1163	2444148.10	1979 Oct 1 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1979-W1164	2444148.11	1979 Oct 1 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W1165	2444148.12	1979 Oct 1 1459:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1166	2444148.22	1979 Oct 1 1711:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W1167	2444148.23	1979 Oct 1 1737:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-W1168	2444148.35	1979 Oct 1 2018:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	51	-	-
1979-W1169	2444148.35	1979 Oct 1 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-W1170	2444148.57	1979 Oct 2 0137:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W1171	2444149.27	1979 Oct 2 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W1173	2444150.05	1979 Oct 3 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1174	2444150.06	1979 Oct 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-Y491	2444150.09	1979 Oct 3 1408:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W1175	2444150.11	1979 Oct 3 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	57	-	-
1979-A44	2444150.15	1979 Oct 3 1543:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	49	-	-
1979-W1176	2444150.16	1979 Oct 3 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1177	2444150.17	1979 Oct 3 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1178	2444150.18	1979 Oct 3 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W1179	2444150.23	1979 Oct 3 1729:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W1180	2444150.27	1979 Oct 3 1831:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	58	-	-
1979-W1181	2444150.57	1979 Oct 4 0145:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W1182	2444151.16	1979 Oct 4 1545:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1183	2444151.34	1979 Oct 4 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	57	-	-
1979-W1184	2444151.67	1979 Oct 5 0410:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1185	2444152.03	1979 Oct 5 1248:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1186	2444152.07	1979 Oct 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W1187	2444152.14	1979 Oct 5 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W1188	2444152.38	1979 Oct 5 2104:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	60	-	-
1979-W1189	2444152.68	1979 Oct 6 0423:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1190	2444155.06	1979 Oct 8 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W1191	2444155.10	1979 Oct 8 1426:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1192	2444155.12	1979 Oct 8 1451:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W1193	2444155.18	1979 Oct 8 1618:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1194	2444156.17	1979 Oct 9 1559:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W1195	2444156.37	1979 Oct 9 2056:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1979-W1196	2444156.52	1979 Oct 10 0033:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1198	2444157.06	1979 Oct 10 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1199	2444157.06	1979 Oct 10 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W1200	2444157.08	1979 Oct 10 1354:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-Y495	2444157.10	1979 Oct 10 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	95	-	-
1979-W1201	2444157.11	1979 Oct 10 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	65	-	-
1979-W1202	2444157.14	1979 Oct 10 1518:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W1203	2444157.39	1979 Oct 10 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W1204	2444157.44	1979 Oct 10 2237:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W1205	2444159.06	1979 Oct 12 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1206	2444159.19	1979 Oct 12 1629:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1207	2444159.24	1979 Oct 12 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1208	2444159.27	1979 Oct 12 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1979-W1209	2444159.55	1979 Oct 13 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1210	2444162.04	1979 Oct 15 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1211	2444162.07	1979 Oct 15 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1979-W1212	2444162.12	1979 Oct 15 1446:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	51	-	-
1979-W1213	2444162.17	1979 Oct 15 1604:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1979-W1214	2444162.20	1979 Oct 15 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1979-W1215	2444162.35	1979 Oct 15 2026:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W1216	2444162.70	1979 Oct 16 0443:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	58	-	-
1979-W1218	2444163.66	1979 Oct 17 0344:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	71	-	-
1979-W1219	2444164.05	1979 Oct 17 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1220	2444164.06	1979 Oct 17 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1221	2444164.07	1979 Oct 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	61	-	-
1979-W1222	2444164.11	1979 Oct 17 1436:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W1223	2444164.15	1979 Oct 17 1533:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1979-Y500	2444164.36	1979 Oct 17 2043:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W1224	2444164.45	1979 Oct 17 2247:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1225	2444166.05	1979 Oct 19 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W1226	2444166.11	1979 Oct 19 1441:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1227	2444166.12	1979 Oct 19 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	50	-	-
1979-W1228	2444166.21	1979 Oct 19 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W1229	2444166.27	1979 Oct 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1979-W1230	2444166.27	1979 Oct 19 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1979-W1231	2444166.33	1979 Oct 19 1956:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W1232	2444166.41	1979 Oct 19 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	51	-	-
1979-W1233	2444166.52	1979 Oct 20 0030:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	63	-	-
1979-W1234	2444166.55	1979 Oct 20 0118:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1235	2444168.10	1979 Oct 21 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	52	-	-
1979-Y502	2444168.29	1979 Oct 21 1851:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W1241	2444169.06	1979 Oct 22 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1242	2444169.07	1979 Oct 22 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1243	2444169.11	1979 Oct 22 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1244	2444169.16	1979 Oct 22 1551:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W1245	2444169.23	1979 Oct 22 1732:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W1246	2444169.28	1979 Oct 22 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1247	2444169.51	1979 Oct 23 0014:59	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	60	-	-
1979-W1248	2444170.34	1979 Oct 23 2015:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W1250	2444170.69	1979 Oct 24 0426:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1251	2444171.00	1979 Oct 24 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W1252	2444171.06	1979 Oct 24 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1253	2444171.06	1979 Oct 24 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1979-W1254	2444171.10	1979 Oct 24 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-Y506	2444171.10	1979 Oct 24 1430:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	89	-	-
1979-W1255	2444171.29	1979 Oct 24 1856:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W1256	2444171.33	1979 Oct 24 2000:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1257	2444171.67	1979 Oct 25 0401:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-Y507	2444172.09	1979 Oct 25 1412:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W1258	2444172.11	1979 Oct 25 1437:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	52	-	-
1979-W1259	2444172.69	1979 Oct 26 0433:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1260	2444173.06	1979 Oct 26 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1261	2444173.08	1979 Oct 26 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	69	-	-
1979-W1262	2444173.09	1979 Oct 26 1403:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1979-W1263	2444173.12	1979 Oct 26 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1264	2444173.27	1979 Oct 26 1822:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	72	-	-
1979-W1265	2444173.27	1979 Oct 26 1830:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	67	-	-
1979-W1266	2444173.29	1979 Oct 26 1858:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1267	2444173.38	1979 Oct 26 2111:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	56	-	-
1979-W1268	2444176.07	1979 Oct 29 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-W1269	2444176.11	1979 Oct 29 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	76	-	-
1979-W1270	2444176.14	1979 Oct 29 1522:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1271	2444176.15	1979 Oct 29 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1272	2444176.21	1979 Oct 29 1657:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1273	2444176.55	1979 Oct 30 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W1274	2444178.05	1979 Oct 31 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1979-W1275	2444178.05	1979 Oct 31 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1276	2444178.13	1979 Oct 31 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1277	2444178.15	1979 Oct 31 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	72	-	-
1979-Y511	2444178.21	1979 Oct 31 1704:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-Y512	2444178.28	1979 Oct 31 1837:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W1278	2444178.30	1979 Oct 31 1907:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-W1279	2444178.31	1979 Oct 31 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1979-W1280	2444178.48	1979 Oct 31 2334:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W1281	2444179.00	1979 Nov 1 1200:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1979-W1282	2444179.05	1979 Nov 1 1315:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	59	-	-
1979-W1286	2444179.14	1979 Nov 1 1520:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	68	-	-
1979-W1288	2444179.32	1979 Nov 1 1942:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-Y513	2444179.33	1979 Nov 1 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1292	2444179.42	1979 Nov 1 2201:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	61	-	-
1979-W1293	2444180.06	1979 Nov 2 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1294	2444180.07	1979 Nov 2 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	66	-	-
1979-W1295	2444180.10	1979 Nov 2 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1979-W1296	2444180.12	1979 Nov 2 1447:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	66	-	-
1979-Y516	2444180.15	1979 Nov 2 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W1297	2444180.21	1979 Nov 2 1656:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W1298	2444180.58	1979 Nov 3 0202:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1299	2444181.82	1979 Nov 4 0735:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1979-W1301	2444181.94	1979 Nov 4 1040:00	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	79	-	-
1979-W1302	2444181.95	1979 Nov 4 1053:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1979-W1303	2444183.07	1979 Nov 5 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1304	2444183.08	1979 Nov 5 1401:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1305	2444183.11	1979 Nov 5 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W1306	2444183.20	1979 Nov 5 1651:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1979-W1307	2444183.21	1979 Nov 5 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1979-W1308	2444183.37	1979 Nov 5 2057:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1979-W1309	2444183.55	1979 Nov 6 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1313	2444185.03	1979 Nov 7 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1314	2444185.05	1979 Nov 7 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	65	-	-
1979-W1315	2444185.11	1979 Nov 7 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W1316	2444185.13	1979 Nov 7 1506:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1317	2444185.15	1979 Nov 7 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-Y525	2444185.16	1979 Nov 7 1556:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1318	2444185.18	1979 Nov 7 1615:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W1319	2444185.37	1979 Nov 7 2054:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	74	-	-
1979-W1320	2444185.49	1979 Nov 7 2346:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-Y527	2444186.31	1979 Nov 8 1930:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1321	2444186.50	1979 Nov 9 0002:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1979-W1322	2444187.08	1979 Nov 9 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1979-W1323	2444187.11	1979 Nov 9 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1324	2444187.15	1979 Nov 9 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1325	2444187.20	1979 Nov 9 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	55	-	-
1979-W1326	2444187.24	1979 Nov 9 1740:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1327	2444187.38	1979 Nov 9 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1328	2444190.10	1979 Nov 12 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W1330	2444191.20	1979 Nov 13 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W1331	2444191.37	1979 Nov 13 2055:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	54	-	-
1979-W1333	2444191.65	1979 Nov 14 0336:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1979-W1334	2444192.05	1979 Nov 14 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1336	2444192.10	1979 Nov 14 1424:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1337	2444192.20	1979 Nov 14 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-Y542	2444192.22	1979 Nov 14 1710:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	89	-	-
1979-W1338	2444192.23	1979 Nov 14 1734:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	54	-	-
1979-W1339	2444192.25	1979 Nov 14 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1341	2444192.45	1979 Nov 14 2251:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1343	2444194.06	1979 Nov 16 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	69	-	-
1979-W1344	2444194.10	1979 Nov 16 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	62	-	-
1979-W1345	2444194.13	1979 Nov 16 1500:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1346	2444194.16	1979 Nov 16 1549:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	67	-	-
1979-W1347	2444194.19	1979 Nov 16 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W1348	2444194.32	1979 Nov 16 1938:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-W1349	2444194.52	1979 Nov 17 0026:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1350	2444197.06	1979 Nov 19 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1979-W1351	2444197.10	1979 Nov 19 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1979-W1352	2444197.11	1979 Nov 19 1440:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1353	2444198.65	1979 Nov 21 0340:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1355	2444199.06	1979 Nov 21 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W1356	2444199.10	1979 Nov 21 1429:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1357	2444199.20	1979 Nov 21 1644:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1979-W1358	2444199.22	1979 Nov 21 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	58	-	-
1979-Y550	2444199.28	1979 Nov 21 1845:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	97	-	-
1979-Y551	2444199.29	1979 Nov 21 1903:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1359	2444199.31	1979 Nov 21 1919:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-W1360	2444199.31	1979 Nov 21 1927:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	55	-	-
1979-W1361	2444199.39	1979 Nov 21 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	61	-	-
1979-W1362	2444199.63	1979 Nov 22 0301:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1363	2444201.20	1979 Nov 23 1647:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W1364	2444201.51	1979 Nov 24 0020:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1365	2444204.06	1979 Nov 26 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	66	-	-
1979-W1366	2444204.07	1979 Nov 26 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1367	2444204.11	1979 Nov 26 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W1368	2444204.12	1979 Nov 26 1448:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1369	2444204.34	1979 Nov 26 2003:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1979-Y555	2444205.33	1979 Nov 27 2000:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-W1370	2444206.06	1979 Nov 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1371	2444206.10	1979 Nov 28 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1979-W1372	2444206.12	1979 Nov 28 1500:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-Y559	2444206.15	1979 Nov 28 1530:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1979-W1373	2444206.19	1979 Nov 28 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-W1374	2444206.22	1979 Nov 28 1712:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	67	-	-
1979-Y561	2444206.39	1979 Nov 28 2124:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1979-W1375	2444206.41	1979 Nov 28 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	73	-	-
1979-W1376	2444206.45	1979 Nov 28 2254:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-Y564	2444207.17	1979 Nov 29 1603:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	91	-	-
1979-W1377	2444207.18	1979 Nov 29 1625:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	56	-	-
1979-W1378	2444207.67	1979 Nov 30 0404:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	78	-	-
1979-W1380	2444208.06	1979 Nov 30 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1381	2444208.10	1979 Nov 30 1420:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	72	-	-
1979-W1382	2444211.06	1979 Dec 3 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1383	2444211.10	1979 Dec 3 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1979-W1384	2444211.30	1979 Dec 3 1912:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W1385	2444212.09	1979 Dec 4 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	64	-	-
1979-Y568	2444212.15	1979 Dec 4 1537:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1386	2444212.17	1979 Dec 4 1606:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	59	-	-
1979-W1388	2444212.28	1979 Dec 4 1845:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	70	-	-
1979-W1390	2444213.04	1979 Dec 5 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1979-W1391	2444213.10	1979 Dec 5 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1979-W1392	2444213.11	1979 Dec 5 1432:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	68	-	-
1979-W1393	2444213.21	1979 Dec 5 1658:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W1394	2444213.22	1979 Dec 5 1715:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-Y572	2444213.28	1979 Dec 5 1845:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1979-Y573	2444213.35	1979 Dec 5 2026:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	89	-	-
1979-W1395	2444213.37	1979 Dec 5 2058:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1979-W1396	2444213.45	1979 Dec 5 2252:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-Y575	2444214.57	1979 Dec 7 0140:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	82	-	-
1979-W1397	2444215.07	1979 Dec 7 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	63	-	-
1979-W1398	2444215.11	1979 Dec 7 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W1399	2444215.25	1979 Dec 7 1753:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1400	2444218.13	1979 Dec 10 1510:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1401	2444218.27	1979 Dec 10 1825:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	72	-	-
1979-Y577	2444218.29	1979 Dec 10 1900:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1979-W1402	2444218.31	1979 Dec 10 1930:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	59	-	-
1979-W1403	2444219.54	1979 Dec 12 0059:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-W1406	2444220.09	1979 Dec 12 1410:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	73	-	-
1979-A48	2444220.11	1979 Dec 12 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	47	-	-
1979-W1407	2444220.11	1979 Dec 12 1442:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1409	2444220.24	1979 Dec 12 1745:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	57	-	-
1979-W1410	2444220.35	1979 Dec 12 2021:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	75	-	-
1979-W1411	2444220.39	1979 Dec 12 2117:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1979-W1412	2444220.45	1979 Dec 12 2245:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1979-W1413	2444221.35	1979 Dec 13 2020:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	74	-	-
1979-Y585	2444221.41	1979 Dec 13 2149:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	ASC	-	-	-	96	-	-
1979-W1414	2444222.11	1979 Dec 14 1435:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-W1415	2444222.22	1979 Dec 14 1714:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	71	-	-
1979-W1416	2444222.25	1979 Dec 14 1800:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1979-W1417	2444222.40	1979 Dec 14 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-
1979-Y588	2444222.55	1979 Dec 15 0114:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	81	-	-
1979-W1418	2444225.07	1979 Dec 17 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-
1979-W1419	2444225.10	1979 Dec 17 1426:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	62	-	-
1979-W1420	2444225.11	1979 Dec 17 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	58	-	-
1979-W1421	2444225.20	1979 Dec 17 1653:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	72	-	-
1979-W1422	2444225.30	1979 Dec 17 1907:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1979-W1423	2444225.60	1979 Dec 18 0225:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1424	2444225.74	1979 Dec 18 0548:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	66	-	-
1979-W1425	2444226.23	1979 Dec 18 1729:00	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1979-W1426	2444226.35	1979 Dec 18 2030:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1979-W1428	2444226.63	1979 Dec 19 0308:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1429	2444226.74	1979 Dec 19 0548:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-W1431	2444227.06	1979 Dec 19 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1432	2444227.10	1979 Dec 19 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	70	-	-
1979-W1433	2444227.11	1979 Dec 19 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1979-Y593	2444227.29	1979 Dec 19 1851:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1979-W1434	2444227.30	1979 Dec 19 1914:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	74	-	-
1979-W1435	2444227.31	1979 Dec 19 1925:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	76	-	-
1979-Y596	2444227.37	1979 Dec 19 2057:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	KAU	-	-	-	90	-	-
1979-W1436	2444227.39	1979 Dec 19 2127:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	76	-	-
1979-W1437	2444227.62	1979 Dec 20 0300:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1438	2444227.74	1979 Dec 20 0549:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1979-W1439	2444227.89	1979 Dec 20 0926:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1979-Y597	2444228.12	1979 Dec 20 1452:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	88	-	-
1979-W1440	2444228.13	1979 Dec 20 1513:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	78	-	-
1979-W1442	2444228.62	1979 Dec 21 0247:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1443	2444229.04	1979 Dec 21 1252:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	67	-	-
1979-W1444	2444229.10	1979 Dec 21 1431:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-W1445	2444229.11	1979 Dec 21 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1979-W1446	2444229.28	1979 Dec 21 1847:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	68	-	-
1979-W1450	2444232.12	1979 Dec 24 1456:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	69	-	-
1979-Y602	2444234.11	1979 Dec 26 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	84	-	-
1979-W1454	2444234.11	1979 Dec 26 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	50	-	-
1979-W1455	2444234.14	1979 Dec 26 1522:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1456	2444234.49	1979 Dec 26 2347:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1979-W1457	2444236.06	1979 Dec 28 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1458	2444236.07	1979 Dec 28 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1459	2444236.11	1979 Dec 28 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	57	-	-
1979-W1460	2444236.18	1979 Dec 28 1624:59	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	67	-	-
1979-W1461	2444236.65	1979 Dec 29 0338:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1979-W1462	2444239.05	1979 Dec 31 1314:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	65	-	-
1979-W1463	2444239.07	1979 Dec 31 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	71	-	-
1979-W1464	2444239.11	1979 Dec 31 1437:00	Rocketsonde	-	-	Arcasonde	-	-	-	THU	-	-	-	71	-	-
1980-Y01	2444239.60	1980 Jan 1 0231:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-A40	2444544.44	1980 Oct 31 2229:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	44	-	-
1980-W1016	2444546.89	1980 Nov 3 0918:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1017	2444547.19	1980 Nov 3 1640:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-A41	2444547.45	1980 Nov 3 2249:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	45	-	-
1980-W1018	2444547.60	1980 Nov 4 0220:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	69	-	-
1980-W1019	2444548.11	1980 Nov 4 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-Y459	2444549.13	1980 Nov 5 1502:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W1020	2444549.22	1980 Nov 5 1719:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	60	-	-
1980-Y460	2444549.30	1980 Nov 5 1914:59	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	82	-	-
1980-W1021	2444549.34	1980 Nov 5 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W1022	2444549.40	1980 Nov 5 2131:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1980-A43	2444549.42	1980 Nov 5 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W1023	2444550.04	1980 Nov 6 1255:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W1024	2444551.10	1980 Nov 7 1419:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	60	-	-
1980-W1025	2444551.19	1980 Nov 7 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W1026	2444551.33	1980 Nov 7 1951:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-A44	2444551.43	1980 Nov 7 2214:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W1027	2444554.11	1980 Nov 10 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	64	-	-
1980-W1028	2444554.15	1980 Nov 10 1541:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W1029	2444554.21	1980 Nov 10 1703:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W1030	2444554.33	1980 Nov 10 1957:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	55	-	-
1980-W1031	2444554.41	1980 Nov 10 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	73	-	-
1980-W1032	2444554.90	1980 Nov 11 0941:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1033	2444555.04	1980 Nov 11 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	54	-	-
1980-W1035	2444555.89	1980 Nov 12 0919:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W1037	2444556.09	1980 Nov 12 1412:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	55	-	-
1980-Y462	2444556.11	1980 Nov 12 1444:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W1038	2444556.22	1980 Nov 12 1720:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	64	-	-
1980-W1039	2444556.42	1980 Nov 12 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	53	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-Y465	2444557.36	1980 Nov 13 2037:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W1043	2444558.40	1980 Nov 14 2130:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-W1044	2444558.40	1980 Nov 14 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	74	-	-
1980-W1045	2444558.41	1980 Nov 14 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1980-W1046	2444561.04	1980 Nov 17 1253:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-W1047	2444561.10	1980 Nov 17 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	69	-	-
1980-W1048	2444561.33	1980 Nov 17 1949:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W1049	2444561.42	1980 Nov 17 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	62	-	-
1980-A46	2444561.57	1980 Nov 18 0134:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-A47	2444562.09	1980 Nov 18 1415:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	44	-	-
1980-W1052	2444562.23	1980 Nov 18 1737:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	65	-	-
1980-W1053	2444562.26	1980 Nov 18 1817:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	71	-	-
1980-W1054	2444562.27	1980 Nov 18 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W1055	2444562.31	1980 Nov 18 1929:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-Y470	2444563.11	1980 Nov 19 1445:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	85	-	-
1980-W1056	2444563.15	1980 Nov 19 1538:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W1057	2444563.20	1980 Nov 19 1649:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	61	-	-
1980-Y471	2444563.34	1980 Nov 19 2015:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W1058	2444563.43	1980 Nov 19 2223:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W1059	2444563.43	1980 Nov 19 2224:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1980-W1060	2444564.40	1980 Nov 20 2129:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W1061	2444564.89	1980 Nov 21 0920:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1062	2444565.09	1980 Nov 21 1413:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	59	-	-
1980-W1063	2444565.29	1980 Nov 21 1859:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1980-A48	2444565.36	1980 Nov 21 2040:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	49	-	-
1980-W1064	2444565.38	1980 Nov 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	66	-	-
1980-A49	2444565.38	1980 Nov 21 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	49	-	-
1980-W1065	2444568.04	1980 Nov 24 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	55	-	-
1980-W1066	2444568.15	1980 Nov 24 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-A50	2444568.21	1980 Nov 24 1702:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	46	-	-
1980-W1067	2444568.40	1980 Nov 24 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W1068	2444568.41	1980 Nov 24 2154:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	63	-	-
1980-W1070	2444570.17	1980 Nov 26 1558:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1071	2444570.21	1980 Nov 26 1700:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1980-Y479	2444570.30	1980 Nov 26 1914:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W1072	2444570.39	1980 Nov 26 2126:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1980-W1073	2444570.45	1980 Nov 26 2241:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	72	-	-
1980-W1074	2444570.52	1980 Nov 27 0027:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W1075	2444572.15	1980 Nov 28 1530:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W1076	2444572.19	1980 Nov 28 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	54	-	-
1980-W1077	2444572.41	1980 Nov 28 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W1078	2444575.07	1980 Dec 1 1345:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1079	2444575.08	1980 Dec 1 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	63	-	-
1980-W1080	2444575.14	1980 Dec 1 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	70	-	-
1980-W1081	2444575.19	1980 Dec 1 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	63	-	-
1980-W1082	2444575.28	1980 Dec 1 1838:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W1083	2444575.38	1980 Dec 1 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	69	-	-
1980-W1084	2444576.25	1980 Dec 2 1758:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-W1087	2444577.27	1980 Dec 3 1833:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	72	-	-
1980-W1088	2444577.34	1980 Dec 3 2010:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-W1089	2444577.40	1980 Dec 3 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	77	-	-
1980-W1090	2444578.27	1980 Dec 4 1834:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1980-W1091	2444578.30	1980 Dec 4 1910:59	Rocketsonde	-	-	-	-	-	-	WI	-	-	-	52	-	-
1980-W1092	2444578.31	1980 Dec 4 1931:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	77	-	-
1980-W1093	2444579.06	1980 Dec 5 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-W1094	2444579.26	1980 Dec 5 1814:59	Rocketsonde	-	-	Arcasonde	-	-	-	WI	-	-	-	64	-	-
1980-W1095	2444581.90	1980 Dec 8 0941:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-W1096	2444582.08	1980 Dec 8 1356:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	64	-	-
1980-W1097	2444582.11	1980 Dec 8 1434:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W1098	2444582.22	1980 Dec 8 1713:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	65	-	-
1980-W1099	2444582.38	1980 Dec 8 2100:00	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	59	-	-
1980-W1100	2444582.39	1980 Dec 8 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	79	-	-
1980-W1101	2444582.42	1980 Dec 8 2206:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	73	-	-
1980-A51	2444582.65	1980 Dec 9 0330:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	40	-	-
1980-W1102	2444583.03	1980 Dec 9 1249:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	61	-	-
1980-Y485	2444583.11	1980 Dec 9 1445:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W1105	2444584.16	1980 Dec 10 1547:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	61	-	-
1980-W1106	2444584.19	1980 Dec 10 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	56	-	-
1980-W1107	2444585.19	1980 Dec 11 1630:00	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	68	-	-
1980-Y489	2444585.20	1980 Dec 11 1644:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WS	-	-	-	98	-	-
1980-W1108	2444585.23	1980 Dec 11 1730:00	Rocketsonde	-	-	Arcasonde	-	-	-	WS	-	-	-	59	-	-
1980-A52	2444585.42	1980 Dec 11 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	47	-	-
1980-W1111	2444586.07	1980 Dec 12 1344:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	64	-	-
1980-A53	2444586.10	1980 Dec 12 1423:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	43	-	-
1980-Y492	2444586.31	1980 Dec 12 1927:59	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	85	-	-
1980-W1112	2444586.34	1980 Dec 12 2003:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	62	-	-
1980-W1113	2444586.40	1980 Dec 12 2135:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W1114	2444589.04	1980 Dec 15 1257:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	56	-	-
1980-W1115	2444589.21	1980 Dec 15 1704:59	Rocketsonde	-	-	Arcasonde	-	-	-	PRIM	-	-	-	66	-	-
1980-W1116	2444589.74	1980 Dec 16 0548:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W1117	2444589.91	1980 Dec 16 0944:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	72	-	-
1980-W1118	2444590.08	1980 Dec 16 1400:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	67	-	-
1980-W1119	2444590.41	1980 Dec 16 2145:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W1120	2444590.41	1980 Dec 16 2147:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	74	-	-
1980-W1124	2444590.93	1980 Dec 17 1014:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-W1125	2444591.04	1980 Dec 17 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	59	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-Y498	2444591.11	1980 Dec 17 1435:00	Rocketsonde	-	-	AN/DMQ-9?	-	-	-	CC	LC43	-	-	83	-	-
1980-W1126	2444591.39	1980 Dec 17 2114:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	54	-	-
1980-W1127	2444591.39	1980 Dec 17 2124:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	76	-	-
1980-W1128	2444591.44	1980 Dec 17 2230:59	Rocketsonde	-	-	Arcasonde	-	-	-	KAU	-	-	-	64	-	-
1980-W1129	2444591.89	1980 Dec 18 0919:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-Y499	2444592.12	1980 Dec 18 1448:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	WI	-	-	-	90	-	-
1980-W1132	2444593.21	1980 Dec 19 1709:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1980-W1133	2444595.90	1980 Dec 22 0930:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	59	-	-
1980-W1134	2444596.04	1980 Dec 22 1259:59	Rocketsonde	-	-	Arcasonde	-	-	-	ANT	-	-	-	56	-	-
1980-W1135	2444596.27	1980 Dec 22 1831:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	70	-	-
1980-W1136	2444596.41	1980 Dec 22 2155:00	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	50	-	-
1980-W1137	2444597.19	1980 Dec 23 1636:59	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	71	-	-
1980-W1138	2444598.06	1980 Dec 24 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1139	2444598.10	1980 Dec 24 1430:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-
1980-Y505	2444598.24	1980 Dec 24 1752:00	Rocketsonde	-	-	AN/DMQ-9-	-	-	-	PM	-	-	-	90	-	-
1980-W1140	2444598.26	1980 Dec 24 1820:00	Rocketsonde	-	-	Arcasonde	-	-	-	PM	-	-	-	64	-	-
1980-W1141	2444598.42	1980 Dec 24 2159:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	52	-	-
1980-W1143	2444600.04	1980 Dec 26 1256:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	63	-	-
1980-W1144	2444603.06	1980 Dec 29 1330:00	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	62	-	-
1980-A55	2444603.11	1980 Dec 29 1445:00	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	44	-	-
1980-W1145	2444604.40	1980 Dec 30 2136:59	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	75	-	-
1980-W1146	2444604.41	1980 Dec 30 2149:59	Rocketsonde	-	-	Arcasonde	-	-	-	SHEM	-	-	-	55	-	-
1980-Y509	2444604.56	1980 Dec 31 0130:00	Rocketsonde	-	-	Arcasonde	-	-	-	KMR	-	-	-	80	-	-
1980-W1147	2444605.03	1980 Dec 31 1245:59	Rocketsonde	-	-	Arcasonde	-	-	-	ASC	-	-	-	60	-	-
1980-W1148	2444605.14	1980 Dec 31 1524:59	Rocketsonde	-	-	Arcasonde	-	-	-	CC	LC43	-	-	70	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W960	2440417.30	1969 Jul 14 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W961	2440418.08	1969 Jul 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W962	2440418.12	1969 Jul 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W963	2440418.15	1969 Jul 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W964	2440418.38	1969 Jul 15 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A126	2440419.08	1969 Jul 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W967	2440419.11	1969 Jul 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W969	2440419.14	1969 Jul 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W970	2440419.17	1969 Jul 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W972	2440419.21	1969 Jul 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W973	2440419.25	1969 Jul 16 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W974	2440419.41	1969 Jul 16 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W975	2440420.11	1969 Jul 17 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W976	2440420.24	1969 Jul 17 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W977	2440420.25	1969 Jul 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W978	2440420.30	1969 Jul 17 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A127	2440420.38	1969 Jul 17 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W979	2440421.08	1969 Jul 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W980	2440421.11	1969 Jul 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W981	2440421.16	1969 Jul 18 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W982	2440421.17	1969 Jul 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W983	2440421.21	1969 Jul 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W984	2440421.29	1969 Jul 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A128	2440421.29	1969 Jul 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W985	2440421.38	1969 Jul 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W986	2440425.30	1969 Jul 22 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W987	2440425.38	1969 Jul 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W988	2440425.40	1969 Jul 22 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W990	2440426.08	1969 Jul 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W991	2440426.15	1969 Jul 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W992	2440426.17	1969 Jul 23 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W993	2440426.24	1969 Jul 23 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W994	2440426.25	1969 Jul 23 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W995	2440426.29	1969 Jul 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W996	2440426.35	1969 Jul 23 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W997	2440426.38	1969 Jul 23 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W998	2440426.40	1969 Jul 23 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W999	2440427.10	1969 Jul 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1000	2440427.17	1969 Jul 24 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1001	2440427.32	1969 Jul 24 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1002	2440427.35	1969 Jul 24 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1003	2440427.40	1969 Jul 24 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1004	2440427.91	1969 Jul 25 0956:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1005	2440428.02	1969 Jul 25 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1006	2440428.05	1969 Jul 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1007	2440428.11	1969 Jul 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1008	2440428.17	1969 Jul 25 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1009	2440428.21	1969 Jul 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1010	2440428.22	1969 Jul 25 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1012	2440428.39	1969 Jul 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1013	2440431.06	1969 Jul 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1014	2440431.11	1969 Jul 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y200	2440431.23	1969 Jul 28 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1015	2440431.33	1969 Jul 28 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1016	2440431.36	1969 Jul 28 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1017	2440431.41	1969 Jul 28 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1018	2440432.25	1969 Jul 29 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1019	2440432.42	1969 Jul 29 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A132	2440433.09	1969 Jul 30 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1020	2440433.10	1969 Jul 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1021	2440433.10	1969 Jul 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1023	2440433.15	1969 Jul 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1024	2440433.19	1969 Jul 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A133	2440433.27	1969 Jul 30 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A134	2440433.31	1969 Jul 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1026	2440433.38	1969 Jul 30 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1027	2440434.20	1969 Jul 31 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1028	2440434.38	1969 Jul 31 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1029	2440434.44	1969 Jul 31 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1030	2440435.08	1969 Aug 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A135	2440435.11	1969 Aug 1 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1031	2440435.13	1969 Aug 1 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1032	2440435.17	1969 Aug 1 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1033	2440435.27	1969 Aug 1 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1034	2440435.27	1969 Aug 1 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1036	2440435.37	1969 Aug 1 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1037	2440438.08	1969 Aug 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1038	2440438.10	1969 Aug 4 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1039	2440438.11	1969 Aug 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1040	2440438.18	1969 Aug 4 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1041	2440438.32	1969 Aug 4 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1042	2440438.39	1969 Aug 4 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1043	2440439.08	1969 Aug 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1044	2440439.38	1969 Aug 5 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1045	2440439.40	1969 Aug 5 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1048	2440440.08	1969 Aug 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1049	2440440.10	1969 Aug 6 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1050	2440440.11	1969 Aug 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1051	2440440.12	1969 Aug 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A136	2440440.19	1969 Aug 6 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1052	2440440.19	1969 Aug 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y206	2440440.21	1969 Aug 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1053	2440440.29	1969 Aug 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A137	2440440.34	1969 Aug 6 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1054	2440440.40	1969 Aug 6 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1055	2440440.55	1969 Aug 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1057	2440441.36	1969 Aug 7 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1058	2440442.08	1969 Aug 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1059	2440442.09	1969 Aug 8 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1060	2440442.11	1969 Aug 8 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1061	2440442.11	1969 Aug 8 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1062	2440442.25	1969 Aug 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1063	2440442.31	1969 Aug 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1064	2440442.42	1969 Aug 8 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1065	2440442.56	1969 Aug 9 0123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1066	2440445.12	1969 Aug 11 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1067	2440445.18	1969 Aug 11 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A139	2440445.23	1969 Aug 11 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1068	2440445.25	1969 Aug 11 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1069	2440445.43	1969 Aug 11 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1070	2440446.38	1969 Aug 12 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1071	2440446.42	1969 Aug 12 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1072	2440447.02	1969 Aug 13 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1073	2440447.08	1969 Aug 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1074	2440447.10	1969 Aug 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1075	2440447.17	1969 Aug 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1076	2440447.25	1969 Aug 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1077	2440447.28	1969 Aug 13 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1078	2440447.31	1969 Aug 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1080	2440448.09	1969 Aug 14 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1081	2440448.19	1969 Aug 14 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1082	2440449.02	1969 Aug 15 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A141	2440449.08	1969 Aug 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1084	2440449.11	1969 Aug 15 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1085	2440449.17	1969 Aug 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1087	2440449.25	1969 Aug 15 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1088	2440449.27	1969 Aug 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1089	2440449.29	1969 Aug 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1090	2440449.39	1969 Aug 15 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1091	2440449.59	1969 Aug 16 0207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1092	2440451.78	1969 Aug 18 0647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1093	2440452.08	1969 Aug 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1094	2440452.11	1969 Aug 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1095	2440452.17	1969 Aug 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1097	2440452.20	1969 Aug 18 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A142	2440452.25	1969 Aug 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1098	2440452.25	1969 Aug 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1099	2440452.31	1969 Aug 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1100	2440452.40	1969 Aug 18 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1101	2440452.56	1969 Aug 19 0122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1102	2440453.09	1969 Aug 19 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A143	2440453.18	1969 Aug 19 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1103	2440453.21	1969 Aug 19 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1104	2440453.26	1969 Aug 19 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1106	2440454.08	1969 Aug 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1107	2440454.11	1969 Aug 20 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1108	2440454.11	1969 Aug 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1109	2440454.15	1969 Aug 20 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1110	2440454.15	1969 Aug 20 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1111	2440454.17	1969 Aug 20 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1112	2440454.23	1969 Aug 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1113	2440454.27	1969 Aug 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1114	2440454.50	1969 Aug 21 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1115	2440454.56	1969 Aug 21 0127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1116	2440455.14	1969 Aug 21 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1117	2440455.17	1969 Aug 21 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A144	2440455.33	1969 Aug 21 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A145	2440455.40	1969 Aug 21 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1118	2440455.54	1969 Aug 22 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1119	2440455.73	1969 Aug 22 0527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1120	2440456.02	1969 Aug 22 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1121	2440456.08	1969 Aug 22 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1122	2440456.08	1969 Aug 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1123	2440456.25	1969 Aug 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1124	2440456.25	1969 Aug 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1125	2440456.26	1969 Aug 22 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1126	2440456.30	1969 Aug 22 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1128	2440456.50	1969 Aug 23 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1129	2440456.56	1969 Aug 23 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1131	2440459.21	1969 Aug 25 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1132	2440459.24	1969 Aug 25 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1133	2440459.25	1969 Aug 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1134	2440459.31	1969 Aug 25 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1135	2440459.52	1969 Aug 26 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1136	2440459.57	1969 Aug 26 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1137	2440460.11	1969 Aug 26 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1138	2440460.14	1969 Aug 26 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1139	2440460.19	1969 Aug 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A147	2440460.20	1969 Aug 26 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1140	2440460.26	1969 Aug 26 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1141	2440460.50	1969 Aug 27 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1142	2440460.64	1969 Aug 27 0325:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1143	2440461.07	1969 Aug 27 1346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1144	2440461.08	1969 Aug 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1145	2440461.09	1969 Aug 27 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1146	2440461.15	1969 Aug 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1147	2440461.17	1969 Aug 27 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1149	2440461.29	1969 Aug 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1150	2440461.29	1969 Aug 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1151	2440461.31	1969 Aug 27 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1152	2440461.58	1969 Aug 28 0148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1153	2440462.27	1969 Aug 28 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1154	2440462.51	1969 Aug 29 0008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1155	2440462.99	1969 Aug 29 1140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1156	2440463.08	1969 Aug 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1157	2440463.11	1969 Aug 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1158	2440463.17	1969 Aug 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1160	2440463.29	1969 Aug 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1161	2440463.38	1969 Aug 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1162	2440463.51	1969 Aug 30 0009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1166	2440467.04	1969 Sep 2 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1167	2440467.29	1969 Sep 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1168	2440467.50	1969 Sep 3 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1169	2440467.65	1969 Sep 3 0341:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1170	2440468.07	1969 Sep 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1171	2440468.08	1969 Sep 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1172	2440468.11	1969 Sep 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1173	2440468.17	1969 Sep 3 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1175	2440468.24	1969 Sep 3 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1176	2440468.40	1969 Sep 3 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1177	2440468.60	1969 Sep 4 0224:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1178	2440469.10	1969 Sep 4 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1179	2440469.17	1969 Sep 4 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1180	2440469.28	1969 Sep 4 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1181	2440469.50	1969 Sep 5 0003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1182	2440470.11	1969 Sep 5 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1183	2440470.11	1969 Sep 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1184	2440470.11	1969 Sep 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1185	2440470.21	1969 Sep 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1186	2440470.24	1969 Sep 5 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1187	2440470.25	1969 Sep 5 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1188	2440470.29	1969 Sep 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1189	2440470.39	1969 Sep 5 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1190	2440470.50	1969 Sep 6 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1191	2440470.55	1969 Sep 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1193	2440471.25	1969 Sep 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1196	2440473.08	1969 Sep 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1197	2440473.11	1969 Sep 8 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1198	2440473.18	1969 Sep 8 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1199	2440473.29	1969 Sep 8 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1200	2440473.29	1969 Sep 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1201	2440473.32	1969 Sep 8 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1202	2440473.57	1969 Sep 9 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1203	2440474.13	1969 Sep 9 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1204	2440474.15	1969 Sep 9 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1205	2440474.18	1969 Sep 9 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1206	2440474.21	1969 Sep 9 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1207	2440474.22	1969 Sep 9 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1208	2440474.78	1969 Sep 10 0642:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1209	2440475.08	1969 Sep 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1211	2440475.11	1969 Sep 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1212	2440475.29	1969 Sep 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1213	2440475.31	1969 Sep 10 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1214	2440475.40	1969 Sep 10 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1215	2440475.58	1969 Sep 11 0148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1217	2440476.15	1969 Sep 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1218	2440476.38	1969 Sep 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1219	2440476.38	1969 Sep 11 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1220	2440476.42	1969 Sep 11 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1222	2440477.08	1969 Sep 12 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1223	2440477.11	1969 Sep 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1224	2440477.13	1969 Sep 12 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1225	2440477.17	1969 Sep 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1226	2440477.18	1969 Sep 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1227	2440477.21	1969 Sep 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1228	2440477.25	1969 Sep 12 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1230	2440477.30	1969 Sep 12 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A151	2440477.38	1969 Sep 12 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1231	2440477.45	1969 Sep 12 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1232	2440477.55	1969 Sep 13 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1233	2440477.98	1969 Sep 13 1127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1234	2440478.25	1969 Sep 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1235	2440479.54	1969 Sep 15 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1236	2440480.04	1969 Sep 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1237	2440480.08	1969 Sep 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1238	2440480.11	1969 Sep 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1239	2440480.12	1969 Sep 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1240	2440480.17	1969 Sep 15 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1242	2440480.23	1969 Sep 15 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1243	2440480.25	1969 Sep 15 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1244	2440480.31	1969 Sep 15 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1245	2440480.40	1969 Sep 15 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1246	2440480.68	1969 Sep 16 0418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1247	2440481.04	1969 Sep 16 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1248	2440481.10	1969 Sep 16 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1250	2440481.23	1969 Sep 16 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1251	2440481.30	1969 Sep 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1252	2440481.33	1969 Sep 16 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1253	2440482.10	1969 Sep 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1254	2440482.11	1969 Sep 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1256	2440482.20	1969 Sep 17 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1257	2440482.21	1969 Sep 17 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A153	2440482.21	1969 Sep 17 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1258	2440482.23	1969 Sep 17 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1259	2440482.25	1969 Sep 17 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1260	2440482.29	1969 Sep 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1261	2440482.29	1969 Sep 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1262	2440482.36	1969 Sep 17 2042:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1263	2440482.44	1969 Sep 17 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1264	2440482.68	1969 Sep 18 0424:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1265	2440483.07	1969 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1266	2440483.10	1969 Sep 18 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1267	2440483.25	1969 Sep 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1268	2440483.32	1969 Sep 18 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A154	2440483.41	1969 Sep 18 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1269	2440483.44	1969 Sep 18 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1270	2440484.10	1969 Sep 19 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1271	2440484.11	1969 Sep 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1273	2440484.21	1969 Sep 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1274	2440484.29	1969 Sep 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1275	2440484.40	1969 Sep 19 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1277	2440485.05	1969 Sep 20 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1279	2440487.08	1969 Sep 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1280	2440487.11	1969 Sep 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1281	2440487.17	1969 Sep 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1282	2440487.21	1969 Sep 22 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1283	2440487.25	1969 Sep 22 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1285	2440487.30	1969 Sep 22 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A157	2440487.39	1969 Sep 22 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1286	2440487.39	1969 Sep 22 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1287	2440487.42	1969 Sep 22 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1288	2440487.43	1969 Sep 22 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1289	2440487.53	1969 Sep 23 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1290	2440487.55	1969 Sep 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1291	2440488.19	1969 Sep 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1292	2440488.19	1969 Sep 23 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1293	2440488.38	1969 Sep 23 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1294	2440488.40	1969 Sep 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1295	2440489.09	1969 Sep 24 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1296	2440489.11	1969 Sep 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1297	2440489.13	1969 Sep 24 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1298	2440489.18	1969 Sep 24 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1300	2440489.24	1969 Sep 24 1748:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1301	2440489.26	1969 Sep 24 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A158	2440489.30	1969 Sep 24 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1302	2440489.40	1969 Sep 24 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1303	2440489.55	1969 Sep 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1304	2440490.15	1969 Sep 25 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A159	2440490.25	1969 Sep 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A160	2440490.38	1969 Sep 25 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1305	2440490.68	1969 Sep 26 0424:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A161	2440491.09	1969 Sep 26 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A162	2440491.10	1969 Sep 26 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1306	2440491.18	1969 Sep 26 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1307	2440491.24	1969 Sep 26 1744:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1308	2440491.25	1969 Sep 26 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1309	2440491.29	1969 Sep 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1310	2440491.30	1969 Sep 26 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1311	2440491.31	1969 Sep 26 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1312	2440491.32	1969 Sep 26 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1313	2440491.34	1969 Sep 26 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1314	2440491.40	1969 Sep 26 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1316	2440491.59	1969 Sep 27 0209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1317	2440494.11	1969 Sep 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1318	2440494.15	1969 Sep 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1319	2440494.18	1969 Sep 29 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1321	2440494.25	1969 Sep 29 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1322	2440494.32	1969 Sep 29 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1323	2440494.36	1969 Sep 29 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1324	2440494.38	1969 Sep 29 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1326	2440495.28	1969 Sep 30 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1327	2440495.37	1969 Sep 30 2047:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1328	2440495.44	1969 Sep 30 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1329	2440495.52	1969 Oct 1 0026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1330	2440496.14	1969 Oct 1 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1331	2440496.16	1969 Oct 1 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y242	2440496.18	1969 Oct 1 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1333	2440496.24	1969 Oct 1 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A166	2440496.30	1969 Oct 1 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1334	2440496.38	1969 Oct 1 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1335	2440496.50	1969 Oct 2 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1336	2440496.61	1969 Oct 2 0238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1337	2440497.17	1969 Oct 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1338	2440497.28	1969 Oct 2 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1339	2440497.35	1969 Oct 2 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1340	2440497.62	1969 Oct 3 0246:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A167	2440498.05	1969 Oct 3 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1341	2440498.08	1969 Oct 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1342	2440498.11	1969 Oct 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1343	2440498.19	1969 Oct 3 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1344	2440498.22	1969 Oct 3 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1345	2440498.25	1969 Oct 3 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1346	2440498.29	1969 Oct 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1347	2440498.38	1969 Oct 3 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1348	2440498.56	1969 Oct 4 0123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1349	2440501.08	1969 Oct 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1350	2440501.11	1969 Oct 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1351	2440501.17	1969 Oct 6 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1352	2440501.17	1969 Oct 6 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1353	2440501.19	1969 Oct 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1354	2440501.39	1969 Oct 6 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1355	2440501.57	1969 Oct 7 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1356	2440502.37	1969 Oct 7 2051:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1357	2440503.08	1969 Oct 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1358	2440503.17	1969 Oct 8 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1360	2440503.21	1969 Oct 8 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1361	2440503.23	1969 Oct 8 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1362	2440503.26	1969 Oct 8 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1363	2440503.27	1969 Oct 8 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1364	2440503.39	1969 Oct 8 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A172	2440503.96	1969 Oct 9 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A173	2440504.12	1969 Oct 9 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1365	2440505.09	1969 Oct 10 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1366	2440505.10	1969 Oct 10 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1367	2440505.11	1969 Oct 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1368	2440505.13	1969 Oct 10 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1369	2440505.13	1969 Oct 10 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1370	2440505.14	1969 Oct 10 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1371	2440505.14	1969 Oct 10 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1372	2440505.19	1969 Oct 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1373	2440505.20	1969 Oct 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1374	2440505.21	1969 Oct 10 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1375	2440505.22	1969 Oct 10 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1376	2440505.31	1969 Oct 10 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A175	2440505.38	1969 Oct 10 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1378	2440508.08	1969 Oct 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1379	2440508.09	1969 Oct 13 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1380	2440508.10	1969 Oct 13 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1381	2440508.12	1969 Oct 13 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1382	2440508.17	1969 Oct 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1383	2440508.21	1969 Oct 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1384	2440508.38	1969 Oct 13 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1385	2440508.40	1969 Oct 13 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1386	2440508.46	1969 Oct 13 2303:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1387	2440509.17	1969 Oct 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A176	2440509.17	1969 Oct 14 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1388	2440509.18	1969 Oct 14 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1389	2440509.38	1969 Oct 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1391	2440510.01	1969 Oct 15 1209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1392	2440510.10	1969 Oct 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1393	2440510.12	1969 Oct 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1394	2440510.17	1969 Oct 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1395	2440510.18	1969 Oct 15 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1396	2440510.19	1969 Oct 15 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1397	2440510.21	1969 Oct 15 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1398	2440510.22	1969 Oct 15 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1399	2440510.25	1969 Oct 15 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A177	2440510.27	1969 Oct 15 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1400	2440510.29	1969 Oct 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1402	2440511.08	1969 Oct 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-Y262	2440511.17	1969 Oct 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1403	2440511.17	1969 Oct 16 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1404	2440511.19	1969 Oct 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1405	2440511.21	1969 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1406	2440511.24	1969 Oct 16 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1407	2440511.29	1969 Oct 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1408	2440512.09	1969 Oct 17 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1409	2440512.09	1969 Oct 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1410	2440512.12	1969 Oct 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1411	2440512.19	1969 Oct 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1412	2440512.25	1969 Oct 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1413	2440512.26	1969 Oct 17 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1414	2440512.29	1969 Oct 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A179	2440512.30	1969 Oct 17 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1415	2440512.31	1969 Oct 17 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1416	2440512.32	1969 Oct 17 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1417	2440512.43	1969 Oct 17 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1419	2440515.09	1969 Oct 20 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1420	2440515.10	1969 Oct 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1421	2440515.12	1969 Oct 20 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1422	2440515.40	1969 Oct 20 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1424	2440516.17	1969 Oct 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1425	2440516.38	1969 Oct 21 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1426	2440516.67	1969 Oct 22 0357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1427	2440517.08	1969 Oct 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1428	2440517.08	1969 Oct 22 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1430	2440517.09	1969 Oct 22 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1431	2440517.12	1969 Oct 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1432	2440517.13	1969 Oct 22 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1433	2440517.16	1969 Oct 22 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1434	2440517.23	1969 Oct 22 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1435	2440517.30	1969 Oct 22 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y274	2440517.32	1969 Oct 22 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1436	2440517.43	1969 Oct 22 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1438	2440518.10	1969 Oct 23 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1439	2440518.17	1969 Oct 23 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1440	2440519.08	1969 Oct 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1441	2440519.09	1969 Oct 24 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1442	2440519.15	1969 Oct 24 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A181	2440522.10	1969 Oct 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1444	2440522.11	1969 Oct 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1445	2440522.12	1969 Oct 27 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1446	2440522.15	1969 Oct 27 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1447	2440522.15	1969 Oct 27 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1448	2440522.18	1969 Oct 27 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1449	2440522.22	1969 Oct 27 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1451	2440522.27	1969 Oct 27 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1452	2440522.29	1969 Oct 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1453	2440522.30	1969 Oct 27 1917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1454	2440523.11	1969 Oct 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1455	2440523.17	1969 Oct 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1456	2440523.42	1969 Oct 28 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1457	2440524.09	1969 Oct 29 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1458	2440524.12	1969 Oct 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1459	2440524.17	1969 Oct 29 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1461	2440524.26	1969 Oct 29 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1462	2440524.31	1969 Oct 29 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1463	2440524.32	1969 Oct 29 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A182	2440524.33	1969 Oct 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1464	2440524.59	1969 Oct 30 0206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1465	2440525.25	1969 Oct 30 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1466	2440525.42	1969 Oct 30 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1467	2440525.96	1969 Oct 31 1107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A183	2440526.07	1969 Oct 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1468	2440526.10	1969 Oct 31 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1469	2440526.12	1969 Oct 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1470	2440526.13	1969 Oct 31 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1471	2440526.15	1969 Oct 31 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1472	2440526.16	1969 Oct 31 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1473	2440526.17	1969 Oct 31 1607:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1474	2440526.18	1969 Oct 31 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1475	2440526.33	1969 Oct 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A184	2440526.36	1969 Oct 31 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1476	2440526.42	1969 Oct 31 2208:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1482	2440529.04	1969 Nov 3 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1486	2440529.19	1969 Nov 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1487	2440529.22	1969 Nov 3 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1488	2440529.26	1969 Nov 3 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1489	2440529.29	1969 Nov 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1492	2440530.21	1969 Nov 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1493	2440530.25	1969 Nov 4 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1494	2440530.33	1969 Nov 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1495	2440530.35	1969 Nov 4 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1499	2440531.12	1969 Nov 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1500	2440531.16	1969 Nov 5 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1501	2440531.16	1969 Nov 5 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1502	2440531.17	1969 Nov 5 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1503	2440531.25	1969 Nov 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1504	2440531.27	1969 Nov 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1506	2440531.39	1969 Nov 5 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1507	2440531.42	1969 Nov 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1508	2440531.55	1969 Nov 6 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1509	2440532.31	1969 Nov 6 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1511	2440533.13	1969 Nov 7 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1512	2440533.16	1969 Nov 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1513	2440533.18	1969 Nov 7 1612:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1514	2440533.21	1969 Nov 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1515	2440533.26	1969 Nov 7 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1516	2440533.32	1969 Nov 7 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A188	2440533.33	1969 Nov 7 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1517	2440536.12	1969 Nov 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1518	2440536.22	1969 Nov 10 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1519	2440536.29	1969 Nov 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1520	2440536.40	1969 Nov 10 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1522	2440538.08	1969 Nov 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1523	2440538.14	1969 Nov 12 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y282	2440538.14	1969 Nov 12 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1524	2440538.25	1969 Nov 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1525	2440538.30	1969 Nov 12 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1526	2440538.30	1969 Nov 12 1913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1527	2440538.33	1969 Nov 12 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1528	2440538.59	1969 Nov 13 0214:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1530	2440539.11	1969 Nov 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1531	2440539.13	1969 Nov 13 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1532	2440539.37	1969 Nov 13 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y283	2440539.40	1969 Nov 13 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1533	2440540.21	1969 Nov 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1534	2440540.26	1969 Nov 14 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1535	2440540.31	1969 Nov 14 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1536	2440540.33	1969 Nov 14 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1538	2440543.09	1969 Nov 17 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1539	2440543.13	1969 Nov 17 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1540	2440543.13	1969 Nov 17 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1541	2440543.19	1969 Nov 17 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1542	2440543.22	1969 Nov 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1544	2440543.25	1969 Nov 17 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1545	2440543.26	1969 Nov 17 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1546	2440543.29	1969 Nov 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1547	2440543.38	1969 Nov 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1548	2440544.09	1969 Nov 18 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1549	2440544.12	1969 Nov 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1550	2440544.19	1969 Nov 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1551	2440544.23	1969 Nov 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A192	2440545.12	1969 Nov 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1554	2440545.12	1969 Nov 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1555	2440545.17	1969 Nov 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1556	2440545.19	1969 Nov 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1557	2440545.23	1969 Nov 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1558	2440545.24	1969 Nov 19 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1560	2440545.25	1969 Nov 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1561	2440545.43	1969 Nov 19 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1562	2440545.46	1969 Nov 19 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1563	2440545.56	1969 Nov 20 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1565	2440546.12	1969 Nov 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1566	2440546.13	1969 Nov 20 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A193	2440546.14	1969 Nov 20 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1567	2440546.24	1969 Nov 20 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1568	2440546.38	1969 Nov 20 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1569	2440546.42	1969 Nov 20 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1570	2440547.12	1969 Nov 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1571	2440547.13	1969 Nov 21 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1572	2440547.27	1969 Nov 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1573	2440547.42	1969 Nov 21 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1574	2440547.43	1969 Nov 21 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1575	2440547.56	1969 Nov 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1577	2440550.29	1969 Nov 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1578	2440550.42	1969 Nov 24 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1580	2440551.27	1969 Nov 25 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1581	2440551.34	1969 Nov 25 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1582	2440551.34	1969 Nov 25 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1583	2440551.40	1969 Nov 25 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1584	2440551.44	1969 Nov 25 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1585	2440551.76	1969 Nov 26 0611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1587	2440552.16	1969 Nov 26 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1588	2440552.16	1969 Nov 26 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1590	2440552.25	1969 Nov 26 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1592	2440552.35	1969 Nov 26 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1593	2440552.41	1969 Nov 26 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1594	2440552.42	1969 Nov 26 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1595	2440552.59	1969 Nov 27 0213:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A195	2440554.15	1969 Nov 28 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1597	2440554.25	1969 Nov 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A196	2440554.25	1969 Nov 28 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A197	2440554.42	1969 Nov 28 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1598	2440554.55	1969 Nov 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1601	2440557.08	1969 Dec 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1602	2440557.10	1969 Dec 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1603	2440557.12	1969 Dec 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1604	2440557.14	1969 Dec 1 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1605	2440557.19	1969 Dec 1 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1606	2440557.36	1969 Dec 1 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1607	2440557.42	1969 Dec 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A199	2440558.15	1969 Dec 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1610	2440558.44	1969 Dec 2 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1611	2440558.44	1969 Dec 2 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1612	2440558.91	1969 Dec 3 0956:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1613	2440559.10	1969 Dec 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1614	2440559.11	1969 Dec 3 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A200	2440559.13	1969 Dec 3 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1615	2440559.14	1969 Dec 3 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1616	2440559.17	1969 Dec 3 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1617	2440559.34	1969 Dec 3 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A201	2440559.35	1969 Dec 3 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1618	2440559.55	1969 Dec 4 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1619	2440560.20	1969 Dec 4 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1620	2440560.22	1969 Dec 4 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1623	2440560.39	1969 Dec 4 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1624	2440560.50	1969 Dec 5 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1625	2440561.08	1969 Dec 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1626	2440561.13	1969 Dec 5 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1628	2440561.25	1969 Dec 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1629	2440561.31	1969 Dec 5 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1630	2440561.38	1969 Dec 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1632	2440561.62	1969 Dec 6 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1633	2440564.10	1969 Dec 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1634	2440564.12	1969 Dec 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1635	2440564.20	1969 Dec 8 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1636	2440564.21	1969 Dec 8 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1638	2440564.31	1969 Dec 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1639	2440564.42	1969 Dec 8 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1640	2440564.56	1969 Dec 9 0121:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1641	2440565.12	1969 Dec 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1642	2440565.31	1969 Dec 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A203	2440565.47	1969 Dec 9 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1644	2440566.10	1969 Dec 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1645	2440566.13	1969 Dec 10 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1646	2440566.17	1969 Dec 10 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1647	2440566.22	1969 Dec 10 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A205	2440566.25	1969 Dec 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1648	2440566.28	1969 Dec 10 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1649	2440566.29	1969 Dec 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1650	2440566.46	1969 Dec 10 2309:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1652	2440566.57	1969 Dec 11 0146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1653	2440567.13	1969 Dec 11 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1655	2440567.41	1969 Dec 11 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1659	2440568.09	1969 Dec 12 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1660	2440568.09	1969 Dec 12 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1661	2440568.10	1969 Dec 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1662	2440568.11	1969 Dec 12 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1663	2440568.25	1969 Dec 12 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1664	2440568.27	1969 Dec 12 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1665	2440568.33	1969 Dec 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1666	2440568.54	1969 Dec 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1668	2440568.62	1969 Dec 13 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1669	2440571.11	1969 Dec 15 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1670	2440571.14	1969 Dec 15 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1671	2440571.17	1969 Dec 15 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1672	2440571.19	1969 Dec 15 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1673	2440571.24	1969 Dec 15 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1675	2440571.25	1969 Dec 15 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1676	2440571.26	1969 Dec 15 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1677	2440571.27	1969 Dec 15 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1678	2440571.38	1969 Dec 15 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1679	2440571.56	1969 Dec 16 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1680	2440572.23	1969 Dec 16 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1681	2440572.24	1969 Dec 16 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1683	2440572.36	1969 Dec 16 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1684	2440572.38	1969 Dec 16 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1686	2440573.09	1969 Dec 17 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-Y294	2440573.14	1969 Dec 17 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1687	2440573.14	1969 Dec 17 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1688	2440573.15	1969 Dec 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1689	2440573.17	1969 Dec 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1690	2440573.24	1969 Dec 17 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1692	2440573.33	1969 Dec 17 1948:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1693	2440573.43	1969 Dec 17 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1694	2440573.55	1969 Dec 18 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1695	2440574.12	1969 Dec 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-W1696	2440574.18	1969 Dec 18 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A209	2440574.34	1969 Dec 18 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1698	2440574.38	1969 Dec 18 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1700	2440575.10	1969 Dec 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1701	2440575.12	1969 Dec 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1702	2440575.16	1969 Dec 19 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1703	2440575.21	1969 Dec 19 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1706	2440575.28	1969 Dec 19 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1707	2440575.34	1969 Dec 19 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1708	2440575.59	1969 Dec 20 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1709	2440578.17	1969 Dec 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1711	2440578.27	1969 Dec 22 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1712	2440578.29	1969 Dec 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1713	2440578.38	1969 Dec 22 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-A210	2440578.47	1969 Dec 22 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1714	2440578.57	1969 Dec 23 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1715	2440579.12	1969 Dec 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1717	2440579.39	1969 Dec 23 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1718	2440580.10	1969 Dec 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1719	2440580.12	1969 Dec 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1720	2440580.17	1969 Dec 24 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1722	2440580.29	1969 Dec 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1723	2440580.39	1969 Dec 24 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1724	2440580.57	1969 Dec 25 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1725	2440582.12	1969 Dec 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1726	2440582.12	1969 Dec 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1728	2440585.10	1969 Dec 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1729	2440585.12	1969 Dec 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1731	2440585.29	1969 Dec 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1732	2440585.43	1969 Dec 29 2220:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1733	2440585.56	1969 Dec 30 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1735	2440586.32	1969 Dec 30 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1736	2440586.47	1969 Dec 30 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1737	2440586.77	1969 Dec 31 0633:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1739	2440587.10	1969 Dec 31 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1740	2440587.19	1969 Dec 31 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1742	2440587.29	1969 Dec 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1743	2440587.29	1969 Dec 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1744	2440587.37	1969 Dec 31 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1969-W1745	2440587.41	1969 Dec 31 2146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1040	2440785.08	1970 Jul 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1041	2440785.14	1970 Jul 17 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1042	2440785.22	1970 Jul 17 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1043	2440785.24	1970 Jul 17 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1044	2440785.25	1970 Jul 17 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1045	2440785.25	1970 Jul 17 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1046	2440785.25	1970 Jul 17 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1047	2440785.39	1970 Jul 17 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1048	2440785.56	1970 Jul 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1049	2440786.00	1970 Jul 18 1155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1050	2440788.04	1970 Jul 20 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1051	2440788.08	1970 Jul 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1052	2440788.12	1970 Jul 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1053	2440788.13	1970 Jul 20 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1054	2440788.14	1970 Jul 20 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1055	2440788.19	1970 Jul 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1056	2440788.20	1970 Jul 20 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1057	2440788.21	1970 Jul 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1058	2440788.25	1970 Jul 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1059	2440788.28	1970 Jul 20 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1060	2440788.39	1970 Jul 20 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1061	2440788.58	1970 Jul 21 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1062	2440789.09	1970 Jul 21 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1063	2440789.12	1970 Jul 21 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1064	2440789.15	1970 Jul 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1065	2440789.35	1970 Jul 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1066	2440789.40	1970 Jul 21 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1067	2440790.08	1970 Jul 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A88	2440790.18	1970 Jul 22 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1068	2440790.18	1970 Jul 22 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1069	2440790.18	1970 Jul 22 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1070	2440790.23	1970 Jul 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1071	2440790.23	1970 Jul 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1072	2440790.25	1970 Jul 22 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1073	2440790.25	1970 Jul 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1074	2440790.30	1970 Jul 22 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1076	2440790.33	1970 Jul 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1077	2440790.58	1970 Jul 23 0202:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1078	2440791.15	1970 Jul 23 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1079	2440791.16	1970 Jul 23 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1080	2440791.19	1970 Jul 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1081	2440791.21	1970 Jul 23 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1082	2440791.26	1970 Jul 23 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1083	2440791.27	1970 Jul 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1084	2440791.40	1970 Jul 23 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A89	2440792.05	1970 Jul 24 1306:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A90	2440792.06	1970 Jul 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1085	2440792.08	1970 Jul 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1086	2440792.09	1970 Jul 24 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1087	2440792.12	1970 Jul 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1088	2440792.15	1970 Jul 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1089	2440792.24	1970 Jul 24 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1090	2440792.29	1970 Jul 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1091	2440792.38	1970 Jul 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1092	2440792.57	1970 Jul 25 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1093	2440795.04	1970 Jul 27 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1094	2440795.08	1970 Jul 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1095	2440795.12	1970 Jul 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1096	2440795.20	1970 Jul 27 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1097	2440795.22	1970 Jul 27 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1098	2440795.29	1970 Jul 27 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1099	2440795.39	1970 Jul 27 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1100	2440795.56	1970 Jul 28 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1101	2440796.11	1970 Jul 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1102	2440796.17	1970 Jul 28 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1103	2440796.20	1970 Jul 28 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1104	2440796.40	1970 Jul 28 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1105	2440796.59	1970 Jul 29 0207:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1107	2440797.04	1970 Jul 29 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1108	2440797.08	1970 Jul 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1109	2440797.10	1970 Jul 29 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1110	2440797.12	1970 Jul 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1111	2440797.13	1970 Jul 29 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1112	2440797.18	1970 Jul 29 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1113	2440797.24	1970 Jul 29 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1114	2440797.31	1970 Jul 29 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1115	2440797.41	1970 Jul 29 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1117	2440797.56	1970 Jul 30 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1118	2440798.14	1970 Jul 30 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1119	2440798.18	1970 Jul 30 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1120	2440798.21	1970 Jul 30 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1122	2440799.04	1970 Jul 31 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1123	2440799.08	1970 Jul 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1124	2440799.15	1970 Jul 31 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1125	2440799.20	1970 Jul 31 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1126	2440799.21	1970 Jul 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1127	2440799.21	1970 Jul 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1128	2440799.29	1970 Jul 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1129	2440799.40	1970 Jul 31 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1130	2440799.56	1970 Aug 1 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1131	2440802.08	1970 Aug 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1132	2440802.12	1970 Aug 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1133	2440802.16	1970 Aug 3 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1134	2440802.17	1970 Aug 3 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1135	2440802.19	1970 Aug 3 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1136	2440802.21	1970 Aug 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1137	2440802.23	1970 Aug 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1138	2440802.29	1970 Aug 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1139	2440802.38	1970 Aug 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1140	2440802.56	1970 Aug 4 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1141	2440803.09	1970 Aug 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1142	2440803.32	1970 Aug 4 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1143	2440803.38	1970 Aug 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1145	2440804.04	1970 Aug 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1146	2440804.07	1970 Aug 5 1337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1147	2440804.07	1970 Aug 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1148	2440804.08	1970 Aug 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1149	2440804.12	1970 Aug 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1150	2440804.25	1970 Aug 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1151	2440804.25	1970 Aug 5 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1152	2440804.28	1970 Aug 5 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1153	2440804.29	1970 Aug 5 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1154	2440804.38	1970 Aug 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1155	2440804.56	1970 Aug 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1157	2440805.14	1970 Aug 6 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1158	2440805.16	1970 Aug 6 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1159	2440805.20	1970 Aug 6 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1160	2440805.38	1970 Aug 6 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1161	2440806.04	1970 Aug 7 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1162	2440806.09	1970 Aug 7 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1163	2440806.09	1970 Aug 7 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1164	2440806.23	1970 Aug 7 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1165	2440806.25	1970 Aug 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1166	2440806.25	1970 Aug 7 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1167	2440806.29	1970 Aug 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1168	2440806.56	1970 Aug 8 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1170	2440809.04	1970 Aug 10 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1171	2440809.08	1970 Aug 10 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1172	2440809.15	1970 Aug 10 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1173	2440809.19	1970 Aug 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1174	2440809.25	1970 Aug 10 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1175	2440809.29	1970 Aug 10 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1176	2440809.56	1970 Aug 11 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1178	2440810.40	1970 Aug 11 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1179	2440811.05	1970 Aug 12 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1180	2440811.08	1970 Aug 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1181	2440811.08	1970 Aug 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1182	2440811.10	1970 Aug 12 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1183	2440811.11	1970 Aug 12 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1184	2440811.11	1970 Aug 12 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1185	2440811.12	1970 Aug 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1186	2440811.13	1970 Aug 12 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1187	2440811.14	1970 Aug 12 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1188	2440811.14	1970 Aug 12 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1189	2440811.20	1970 Aug 12 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1190	2440811.25	1970 Aug 12 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1191	2440811.27	1970 Aug 12 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1192	2440811.38	1970 Aug 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1194	2440811.57	1970 Aug 13 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1195	2440812.12	1970 Aug 13 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1196	2440812.15	1970 Aug 13 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1197	2440812.38	1970 Aug 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1198	2440812.93	1970 Aug 14 1025:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1199	2440813.04	1970 Aug 14 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1200	2440813.08	1970 Aug 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1201	2440813.09	1970 Aug 14 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1202	2440813.12	1970 Aug 14 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1203	2440813.15	1970 Aug 14 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A93	2440813.18	1970 Aug 14 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1204	2440813.21	1970 Aug 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1205	2440813.28	1970 Aug 14 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1206	2440813.34	1970 Aug 14 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1207	2440813.38	1970 Aug 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1208	2440816.08	1970 Aug 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1209	2440816.13	1970 Aug 17 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1210	2440816.16	1970 Aug 17 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1211	2440816.21	1970 Aug 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1212	2440816.24	1970 Aug 17 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1213	2440816.25	1970 Aug 17 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1214	2440816.28	1970 Aug 17 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1215	2440816.29	1970 Aug 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1216	2440816.38	1970 Aug 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1217	2440816.56	1970 Aug 18 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1218	2440817.06	1970 Aug 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1219	2440817.18	1970 Aug 18 1613:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1220	2440817.23	1970 Aug 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1221	2440817.39	1970 Aug 18 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1222	2440818.08	1970 Aug 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1223	2440818.11	1970 Aug 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1224	2440818.12	1970 Aug 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1225	2440818.16	1970 Aug 19 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1226	2440818.18	1970 Aug 19 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1227	2440818.22	1970 Aug 19 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1228	2440818.24	1970 Aug 19 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1229	2440818.25	1970 Aug 19 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1230	2440818.28	1970 Aug 19 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1231	2440818.29	1970 Aug 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1232	2440818.35	1970 Aug 19 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1233	2440818.40	1970 Aug 19 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1234	2440818.43	1970 Aug 19 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1235	2440818.56	1970 Aug 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1237	2440819.12	1970 Aug 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1238	2440819.16	1970 Aug 20 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A94	2440819.17	1970 Aug 20 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1239	2440819.18	1970 Aug 20 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1240	2440819.40	1970 Aug 20 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1241	2440820.05	1970 Aug 21 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1242	2440820.08	1970 Aug 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1243	2440820.35	1970 Aug 21 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1244	2440820.40	1970 Aug 21 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1246	2440820.56	1970 Aug 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1247	2440823.04	1970 Aug 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1248	2440823.08	1970 Aug 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1249	2440823.12	1970 Aug 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1250	2440823.19	1970 Aug 24 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1251	2440823.20	1970 Aug 24 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1253	2440823.21	1970 Aug 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1254	2440823.25	1970 Aug 24 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1255	2440823.38	1970 Aug 24 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1256	2440824.39	1970 Aug 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1257	2440825.04	1970 Aug 26 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A95	2440825.09	1970 Aug 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1259	2440825.12	1970 Aug 26 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1260	2440825.13	1970 Aug 26 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1261	2440825.25	1970 Aug 26 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1262	2440825.50	1970 Aug 26 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1263	2440825.53	1970 Aug 27 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1264	2440825.58	1970 Aug 27 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1265	2440826.17	1970 Aug 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1266	2440826.17	1970 Aug 27 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1267	2440826.29	1970 Aug 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1268	2440827.04	1970 Aug 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1269	2440827.08	1970 Aug 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1270	2440827.08	1970 Aug 28 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A96	2440827.12	1970 Aug 28 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1272	2440827.12	1970 Aug 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1273	2440827.25	1970 Aug 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1274	2440827.25	1970 Aug 28 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1275	2440827.25	1970 Aug 28 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1276	2440827.38	1970 Aug 28 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1278	2440830.12	1970 Aug 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1279	2440830.18	1970 Aug 31 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1280	2440830.19	1970 Aug 31 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1281	2440830.20	1970 Aug 31 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1282	2440830.29	1970 Aug 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1283	2440830.32	1970 Aug 31 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1284	2440830.38	1970 Aug 31 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1285	2440831.12	1970 Sep 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1286	2440832.08	1970 Sep 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1287	2440832.08	1970 Sep 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1288	2440832.10	1970 Sep 2 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A97	2440832.12	1970 Sep 2 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y234	2440832.13	1970 Sep 2 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A98	2440832.22	1970 Sep 2 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1290	2440832.25	1970 Sep 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1291	2440832.31	1970 Sep 2 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y235	2440832.38	1970 Sep 2 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1293	2440832.42	1970 Sep 2 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1294	2440832.44	1970 Sep 2 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1295	2440832.56	1970 Sep 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1296	2440833.23	1970 Sep 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1297	2440833.45	1970 Sep 3 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1298	2440834.04	1970 Sep 4 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1299	2440834.09	1970 Sep 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1300	2440834.14	1970 Sep 4 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1301	2440834.15	1970 Sep 4 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1302	2440834.29	1970 Sep 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1303	2440834.39	1970 Sep 4 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1304	2440834.56	1970 Sep 5 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1306	2440837.48	1970 Sep 7 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1307	2440838.14	1970 Sep 8 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1308	2440838.21	1970 Sep 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1309	2440838.23	1970 Sep 8 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1310	2440838.30	1970 Sep 8 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1311	2440838.40	1970 Sep 8 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1312	2440838.92	1970 Sep 9 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1314	2440839.04	1970 Sep 9 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1315	2440839.04	1970 Sep 9 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1316	2440839.08	1970 Sep 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1318	2440839.12	1970 Sep 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1319	2440839.12	1970 Sep 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y239	2440839.17	1970 Sep 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1320	2440839.21	1970 Sep 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1321	2440839.28	1970 Sep 9 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1323	2440839.42	1970 Sep 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1324	2440839.49	1970 Sep 9 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1325	2440839.57	1970 Sep 10 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1326	2440840.16	1970 Sep 10 1553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1327	2440840.29	1970 Sep 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1328	2440840.41	1970 Sep 10 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1329	2440841.04	1970 Sep 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A100	2440841.06	1970 Sep 11 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1330	2440841.08	1970 Sep 11 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1331	2440841.08	1970 Sep 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1332	2440841.15	1970 Sep 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1333	2440841.16	1970 Sep 11 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1334	2440841.29	1970 Sep 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1335	2440841.38	1970 Sep 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1336	2440841.57	1970 Sep 12 0146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1337	2440842.26	1970 Sep 12 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1338	2440844.05	1970 Sep 14 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1339	2440844.10	1970 Sep 14 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1341	2440844.11	1970 Sep 14 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1342	2440844.16	1970 Sep 14 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1343	2440844.17	1970 Sep 14 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1344	2440844.17	1970 Sep 14 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1345	2440844.19	1970 Sep 14 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1346	2440844.21	1970 Sep 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1347	2440844.25	1970 Sep 14 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1348	2440844.38	1970 Sep 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1349	2440844.46	1970 Sep 14 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1350	2440844.56	1970 Sep 15 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1351	2440845.10	1970 Sep 15 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1352	2440845.12	1970 Sep 15 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1353	2440845.15	1970 Sep 15 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1354	2440845.26	1970 Sep 15 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1355	2440845.39	1970 Sep 15 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1356	2440845.44	1970 Sep 15 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1358	2440846.08	1970 Sep 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1359	2440846.12	1970 Sep 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1361	2440846.15	1970 Sep 16 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1362	2440846.19	1970 Sep 16 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1363	2440846.20	1970 Sep 16 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1364	2440846.21	1970 Sep 16 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1365	2440846.22	1970 Sep 16 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y243	2440846.23	1970 Sep 16 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1366	2440846.27	1970 Sep 16 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1367	2440846.27	1970 Sep 16 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1368	2440846.28	1970 Sep 16 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1369	2440846.30	1970 Sep 16 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1370	2440846.30	1970 Sep 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1371	2440846.30	1970 Sep 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1372	2440846.42	1970 Sep 16 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1375	2440846.59	1970 Sep 17 0214:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1376	2440847.14	1970 Sep 17 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1377	2440847.19	1970 Sep 17 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1378	2440847.19	1970 Sep 17 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1379	2440847.21	1970 Sep 17 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1381	2440847.35	1970 Sep 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1382	2440847.38	1970 Sep 17 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1383	2440848.04	1970 Sep 18 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1384	2440848.11	1970 Sep 18 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1385	2440848.11	1970 Sep 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1387	2440848.32	1970 Sep 18 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1388	2440848.38	1970 Sep 18 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A101	2440849.15	1970 Sep 19 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1390	2440849.16	1970 Sep 19 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1391	2440849.18	1970 Sep 19 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1394	2440851.12	1970 Sep 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1395	2440851.16	1970 Sep 21 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1396	2440851.16	1970 Sep 21 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1397	2440851.19	1970 Sep 21 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1398	2440851.19	1970 Sep 21 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1399	2440851.20	1970 Sep 21 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1400	2440851.23	1970 Sep 21 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1401	2440851.25	1970 Sep 21 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1402	2440851.31	1970 Sep 21 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1403	2440851.33	1970 Sep 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1404	2440851.38	1970 Sep 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1405	2440851.56	1970 Sep 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1406	2440852.33	1970 Sep 22 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1407	2440852.41	1970 Sep 22 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1408	2440853.04	1970 Sep 23 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A102	2440853.08	1970 Sep 23 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1409	2440853.08	1970 Sep 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1410	2440853.10	1970 Sep 23 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y245	2440853.12	1970 Sep 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1412	2440853.20	1970 Sep 23 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1413	2440853.25	1970 Sep 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1414	2440853.25	1970 Sep 23 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y246	2440853.28	1970 Sep 23 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1415	2440853.31	1970 Sep 23 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1416	2440853.33	1970 Sep 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1417	2440853.46	1970 Sep 23 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1418	2440853.58	1970 Sep 24 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1419	2440854.39	1970 Sep 24 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1421	2440855.08	1970 Sep 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1422	2440855.09	1970 Sep 25 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1423	2440855.25	1970 Sep 25 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1424	2440855.31	1970 Sep 25 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1425	2440855.38	1970 Sep 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1426	2440855.56	1970 Sep 26 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1427	2440858.04	1970 Sep 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1428	2440858.08	1970 Sep 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1429	2440858.10	1970 Sep 28 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1430	2440858.16	1970 Sep 28 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1431	2440858.17	1970 Sep 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1432	2440858.25	1970 Sep 28 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A105	2440858.29	1970 Sep 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1433	2440858.57	1970 Sep 29 0146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A106	2440859.23	1970 Sep 29 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1434	2440859.26	1970 Sep 29 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1435	2440859.41	1970 Sep 29 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1436	2440859.41	1970 Sep 29 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1437	2440859.92	1970 Sep 30 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1439	2440860.04	1970 Sep 30 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1440	2440860.11	1970 Sep 30 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y249	2440860.12	1970 Sep 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1442	2440860.27	1970 Sep 30 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1443	2440860.33	1970 Sep 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1444	2440860.59	1970 Oct 1 0204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1445	2440861.42	1970 Oct 1 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1446	2440862.04	1970 Oct 2 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1447	2440862.07	1970 Oct 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1448	2440862.08	1970 Oct 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1449	2440862.12	1970 Oct 2 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1450	2440862.12	1970 Oct 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1451	2440862.23	1970 Oct 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1452	2440862.56	1970 Oct 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1453	2440865.08	1970 Oct 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1454	2440865.09	1970 Oct 5 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1456	2440865.15	1970 Oct 5 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A107	2440865.17	1970 Oct 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1457	2440865.27	1970 Oct 5 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1458	2440865.38	1970 Oct 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1459	2440865.42	1970 Oct 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1460	2440865.54	1970 Oct 6 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1461	2440865.56	1970 Oct 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A108	2440865.62	1970 Oct 6 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1462	2440865.69	1970 Oct 6 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1463	2440866.12	1970 Oct 6 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1464	2440866.19	1970 Oct 6 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1466	2440866.42	1970 Oct 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1467	2440866.54	1970 Oct 7 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y253	2440866.92	1970 Oct 7 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1469	2440867.04	1970 Oct 7 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1470	2440867.08	1970 Oct 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A109	2440867.10	1970 Oct 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1471	2440867.12	1970 Oct 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1472	2440867.13	1970 Oct 7 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y254	2440867.13	1970 Oct 7 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1473	2440867.15	1970 Oct 7 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y255	2440867.15	1970 Oct 7 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1475	2440867.18	1970 Oct 7 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1476	2440867.22	1970 Oct 7 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1477	2440867.27	1970 Oct 7 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y256	2440867.43	1970 Oct 7 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1478	2440867.61	1970 Oct 8 0235:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1482	2440868.23	1970 Oct 8 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1483	2440868.25	1970 Oct 8 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1484	2440868.29	1970 Oct 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1485	2440868.42	1970 Oct 8 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1486	2440869.04	1970 Oct 9 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1487	2440869.08	1970 Oct 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1488	2440869.10	1970 Oct 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1489	2440869.12	1970 Oct 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1491	2440869.19	1970 Oct 9 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1492	2440869.21	1970 Oct 9 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1493	2440869.27	1970 Oct 9 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1494	2440869.29	1970 Oct 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1495	2440869.37	1970 Oct 9 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1496	2440869.38	1970 Oct 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1497	2440869.60	1970 Oct 10 0221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1499	2440872.13	1970 Oct 12 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1500	2440872.29	1970 Oct 12 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1501	2440872.57	1970 Oct 13 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1502	2440873.12	1970 Oct 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1503	2440873.29	1970 Oct 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1504	2440873.38	1970 Oct 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1505	2440873.55	1970 Oct 14 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1506	2440873.60	1970 Oct 14 0225:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1507	2440873.65	1970 Oct 14 0336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1508	2440874.04	1970 Oct 14 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1509	2440874.08	1970 Oct 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1510	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1511	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1512	2440874.12	1970 Oct 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1514	2440874.22	1970 Oct 14 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1515	2440874.25	1970 Oct 14 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1516	2440874.26	1970 Oct 14 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1517	2440874.26	1970 Oct 14 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1518	2440874.32	1970 Oct 14 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1519	2440874.33	1970 Oct 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1520	2440874.34	1970 Oct 14 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1521	2440874.43	1970 Oct 14 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1522	2440874.46	1970 Oct 14 2307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1523	2440874.56	1970 Oct 15 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1524	2440875.14	1970 Oct 15 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1525	2440875.14	1970 Oct 15 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1526	2440876.04	1970 Oct 16 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1527	2440876.06	1970 Oct 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1528	2440876.08	1970 Oct 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1530	2440876.12	1970 Oct 16 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1531	2440876.14	1970 Oct 16 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1532	2440876.16	1970 Oct 16 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1533	2440876.21	1970 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1534	2440876.25	1970 Oct 16 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1535	2440876.32	1970 Oct 16 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1536	2440876.38	1970 Oct 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1537	2440876.56	1970 Oct 17 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1539	2440879.11	1970 Oct 19 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1540	2440879.11	1970 Oct 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1541	2440879.15	1970 Oct 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1542	2440879.18	1970 Oct 19 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1543	2440879.21	1970 Oct 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1544	2440879.34	1970 Oct 19 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1545	2440879.39	1970 Oct 19 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1546	2440879.56	1970 Oct 20 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1547	2440880.16	1970 Oct 20 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1548	2440881.06	1970 Oct 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1549	2440881.08	1970 Oct 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1550	2440881.11	1970 Oct 21 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1551	2440881.12	1970 Oct 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1552	2440881.14	1970 Oct 21 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y264	2440881.15	1970 Oct 21 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1554	2440881.26	1970 Oct 21 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1555	2440881.29	1970 Oct 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1556	2440881.33	1970 Oct 21 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y265	2440881.38	1970 Oct 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1557	2440881.41	1970 Oct 21 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1558	2440881.56	1970 Oct 22 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1559	2440882.15	1970 Oct 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1560	2440882.19	1970 Oct 22 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1561	2440882.38	1970 Oct 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1562	2440883.09	1970 Oct 23 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1563	2440883.11	1970 Oct 23 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A113	2440883.12	1970 Oct 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1564	2440883.12	1970 Oct 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1565	2440883.21	1970 Oct 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1566	2440883.29	1970 Oct 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1567	2440883.35	1970 Oct 23 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1568	2440883.48	1970 Oct 23 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1569	2440883.58	1970 Oct 24 0155:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1570	2440886.08	1970 Oct 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1571	2440886.12	1970 Oct 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1572	2440886.21	1970 Oct 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1573	2440886.21	1970 Oct 26 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1574	2440886.21	1970 Oct 26 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1575	2440886.25	1970 Oct 26 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1576	2440886.28	1970 Oct 26 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1577	2440886.33	1970 Oct 26 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1578	2440886.33	1970 Oct 26 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1579	2440886.38	1970 Oct 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1580	2440886.61	1970 Oct 27 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1581	2440887.43	1970 Oct 27 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y268	2440887.94	1970 Oct 28 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1583	2440888.08	1970 Oct 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1584	2440888.09	1970 Oct 28 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1585	2440888.09	1970 Oct 28 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1586	2440888.12	1970 Oct 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1588	2440888.17	1970 Oct 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y269	2440888.18	1970 Oct 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1589	2440888.21	1970 Oct 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1590	2440888.22	1970 Oct 28 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1591	2440888.29	1970 Oct 28 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1592	2440888.33	1970 Oct 28 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1593	2440888.35	1970 Oct 28 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1594	2440888.40	1970 Oct 28 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1595	2440888.44	1970 Oct 28 2231:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1596	2440888.56	1970 Oct 29 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1597	2440889.17	1970 Oct 29 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1598	2440889.20	1970 Oct 29 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1599	2440889.22	1970 Oct 29 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1600	2440889.25	1970 Oct 29 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1601	2440889.31	1970 Oct 29 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1602	2440890.05	1970 Oct 30 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1603	2440890.08	1970 Oct 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1604	2440890.08	1970 Oct 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1605	2440890.12	1970 Oct 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1607	2440890.21	1970 Oct 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1608	2440890.33	1970 Oct 30 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1609	2440890.34	1970 Oct 30 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1610	2440890.35	1970 Oct 30 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1611	2440890.38	1970 Oct 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1613	2440890.61	1970 Oct 31 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1614	2440891.33	1970 Oct 31 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1615	2440893.08	1970 Nov 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1616	2440893.12	1970 Nov 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A115	2440893.15	1970 Nov 2 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1618	2440893.17	1970 Nov 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1619	2440893.19	1970 Nov 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1620	2440893.21	1970 Nov 2 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1621	2440893.32	1970 Nov 2 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1622	2440893.33	1970 Nov 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1623	2440893.36	1970 Nov 2 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1625	2440894.29	1970 Nov 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1626	2440894.40	1970 Nov 3 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y275	2440895.00	1970 Nov 4 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1627	2440895.08	1970 Nov 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1628	2440895.08	1970 Nov 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1629	2440895.09	1970 Nov 4 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1630	2440895.12	1970 Nov 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1631	2440895.14	1970 Nov 4 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y276	2440895.17	1970 Nov 4 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1633	2440895.23	1970 Nov 4 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A116	2440895.35	1970 Nov 4 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1634	2440895.42	1970 Nov 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1635	2440895.45	1970 Nov 4 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1636	2440895.57	1970 Nov 5 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1637	2440895.58	1970 Nov 5 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1638	2440895.73	1970 Nov 5 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1639	2440896.25	1970 Nov 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A118	2440896.42	1970 Nov 5 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1640	2440897.02	1970 Nov 6 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1641	2440897.08	1970 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1642	2440897.14	1970 Nov 6 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A119	2440897.33	1970 Nov 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1645	2440897.35	1970 Nov 6 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1646	2440897.40	1970 Nov 6 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1647	2440897.42	1970 Nov 6 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1648	2440897.62	1970 Nov 7 0255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1649	2440900.07	1970 Nov 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1650	2440900.08	1970 Nov 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1651	2440900.08	1970 Nov 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1653	2440900.21	1970 Nov 9 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1654	2440900.28	1970 Nov 9 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1655	2440900.29	1970 Nov 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1656	2440900.34	1970 Nov 9 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1657	2440900.38	1970 Nov 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1658	2440900.56	1970 Nov 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1659	2440901.21	1970 Nov 10 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1661	2440901.29	1970 Nov 10 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A120	2440901.38	1970 Nov 10 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1662	2440901.54	1970 Nov 11 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1663	2440903.11	1970 Nov 12 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1665	2440903.17	1970 Nov 12 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A121	2440903.38	1970 Nov 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1666	2440903.38	1970 Nov 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y281	2440903.94	1970 Nov 13 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1667	2440904.08	1970 Nov 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1668	2440904.08	1970 Nov 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y282	2440904.17	1970 Nov 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1670	2440904.25	1970 Nov 13 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1671	2440904.29	1970 Nov 13 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1672	2440904.29	1970 Nov 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1673	2440904.33	1970 Nov 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1675	2440907.08	1970 Nov 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1676	2440907.08	1970 Nov 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1677	2440907.12	1970 Nov 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1679	2440907.16	1970 Nov 16 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1680	2440907.18	1970 Nov 16 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1681	2440907.30	1970 Nov 16 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1682	2440907.32	1970 Nov 16 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1683	2440907.38	1970 Nov 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1685	2440908.27	1970 Nov 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1686	2440908.33	1970 Nov 17 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1687	2440908.92	1970 Nov 18 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1688	2440909.08	1970 Nov 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1689	2440909.08	1970 Nov 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1691	2440909.16	1970 Nov 18 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y288	2440909.17	1970 Nov 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1692	2440909.28	1970 Nov 18 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1693	2440909.35	1970 Nov 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1694	2440909.36	1970 Nov 18 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y289	2440909.42	1970 Nov 18 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1695	2440909.44	1970 Nov 18 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1696	2440909.48	1970 Nov 18 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1697	2440909.60	1970 Nov 19 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A122	2440910.13	1970 Nov 19 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1699	2440910.17	1970 Nov 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1700	2440910.24	1970 Nov 19 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1701	2440910.24	1970 Nov 19 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1702	2440911.08	1970 Nov 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1703	2440911.08	1970 Nov 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1704	2440911.12	1970 Nov 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1705	2440911.15	1970 Nov 20 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1707	2440911.19	1970 Nov 20 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1708	2440911.30	1970 Nov 20 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1709	2440911.58	1970 Nov 21 0152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1710	2440912.36	1970 Nov 21 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1711	2440914.08	1970 Nov 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1712	2440914.09	1970 Nov 23 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1713	2440914.11	1970 Nov 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1714	2440914.12	1970 Nov 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1715	2440914.18	1970 Nov 23 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1717	2440914.30	1970 Nov 23 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1718	2440914.32	1970 Nov 23 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1719	2440914.34	1970 Nov 23 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1720	2440914.46	1970 Nov 23 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1721	2440914.56	1970 Nov 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1723	2440915.28	1970 Nov 24 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A123	2440915.38	1970 Nov 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1724	2440915.38	1970 Nov 24 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y300	2440915.92	1970 Nov 25 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1726	2440916.08	1970 Nov 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1727	2440916.08	1970 Nov 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1728	2440916.12	1970 Nov 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1729	2440916.13	1970 Nov 25 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1730	2440916.16	1970 Nov 25 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1731	2440916.17	1970 Nov 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1732	2440916.20	1970 Nov 25 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1733	2440916.21	1970 Nov 25 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1735	2440916.29	1970 Nov 25 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1736	2440916.50	1970 Nov 25 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1737	2440916.50	1970 Nov 26 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1738	2440918.10	1970 Nov 27 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1739	2440918.14	1970 Nov 27 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1740	2440918.17	1970 Nov 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1741	2440918.17	1970 Nov 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1742	2440918.46	1970 Nov 27 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1743	2440918.49	1970 Nov 27 2342:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1747	2440921.08	1970 Nov 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1748	2440921.13	1970 Nov 30 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1750	2440921.26	1970 Nov 30 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1751	2440921.27	1970 Nov 30 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1752	2440921.28	1970 Nov 30 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1753	2440921.29	1970 Nov 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1754	2440921.37	1970 Nov 30 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1755	2440921.38	1970 Nov 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1756	2440921.38	1970 Nov 30 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1757	2440921.57	1970 Dec 1 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1759	2440922.20	1970 Dec 1 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y307	2440922.92	1970 Dec 2 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1760	2440923.04	1970 Dec 2 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1761	2440923.08	1970 Dec 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1762	2440923.12	1970 Dec 2 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1763	2440923.12	1970 Dec 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1765	2440923.29	1970 Dec 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1766	2440923.40	1970 Dec 2 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1767	2440923.56	1970 Dec 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1768	2440924.12	1970 Dec 3 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1770	2440924.23	1970 Dec 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y312	2440924.27	1970 Dec 3 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1771	2440924.30	1970 Dec 3 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1772	2440924.34	1970 Dec 3 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1773	2440925.08	1970 Dec 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1774	2440925.08	1970 Dec 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1775	2440925.09	1970 Dec 4 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1777	2440925.16	1970 Dec 4 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1778	2440925.22	1970 Dec 4 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1779	2440925.27	1970 Dec 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1780	2440925.31	1970 Dec 4 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1781	2440925.48	1970 Dec 4 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1782	2440928.08	1970 Dec 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1783	2440928.09	1970 Dec 7 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1784	2440928.20	1970 Dec 7 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1785	2440928.29	1970 Dec 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1786	2440928.39	1970 Dec 7 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1787	2440928.56	1970 Dec 8 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1788	2440929.12	1970 Dec 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1790	2440929.38	1970 Dec 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1791	2440929.38	1970 Dec 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1792	2440930.08	1970 Dec 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1793	2440930.08	1970 Dec 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1794	2440930.10	1970 Dec 9 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1795	2440930.12	1970 Dec 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1797	2440930.17	1970 Dec 9 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y320	2440930.21	1970 Dec 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1798	2440930.27	1970 Dec 9 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1799	2440930.27	1970 Dec 9 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A126	2440930.29	1970 Dec 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1800	2440930.38	1970 Dec 9 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1802	2440931.33	1970 Dec 10 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1803	2440932.08	1970 Dec 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1804	2440932.12	1970 Dec 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A127	2440932.16	1970 Dec 11 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1805	2440932.17	1970 Dec 11 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1806	2440932.18	1970 Dec 11 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1807	2440932.22	1970 Dec 11 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1808	2440932.22	1970 Dec 11 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1809	2440932.23	1970 Dec 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1811	2440932.26	1970 Dec 11 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1812	2440932.27	1970 Dec 11 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1813	2440932.30	1970 Dec 11 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A128	2440932.32	1970 Dec 11 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1814	2440932.34	1970 Dec 11 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1815	2440932.56	1970 Dec 12 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A129	2440935.08	1970 Dec 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1816	2440935.12	1970 Dec 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1817	2440935.22	1970 Dec 14 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1818	2440935.25	1970 Dec 14 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1819	2440935.27	1970 Dec 14 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1820	2440935.29	1970 Dec 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1821	2440935.40	1970 Dec 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1822	2440935.47	1970 Dec 14 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1823	2440935.61	1970 Dec 15 0233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1824	2440936.19	1970 Dec 15 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1825	2440936.26	1970 Dec 15 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1827	2440937.08	1970 Dec 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1828	2440937.12	1970 Dec 16 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1829	2440937.12	1970 Dec 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A131	2440937.13	1970 Dec 16 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1830	2440937.18	1970 Dec 16 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1831	2440937.21	1970 Dec 16 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y330	2440937.23	1970 Dec 16 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1832	2440937.23	1970 Dec 16 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A134	2440937.29	1970 Dec 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1833	2440937.32	1970 Dec 16 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A136	2440937.38	1970 Dec 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1834	2440937.38	1970 Dec 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1835	2440937.40	1970 Dec 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1836	2440937.47	1970 Dec 16 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1837	2440937.56	1970 Dec 17 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1838	2440938.14	1970 Dec 17 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1840	2440938.16	1970 Dec 17 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1841	2440938.17	1970 Dec 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1842	2440938.22	1970 Dec 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1843	2440938.38	1970 Dec 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1844	2440939.08	1970 Dec 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1845	2440939.09	1970 Dec 18 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1847	2440939.19	1970 Dec 18 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1848	2440939.22	1970 Dec 18 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1849	2440939.30	1970 Dec 18 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A137	2440939.38	1970 Dec 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1850	2440939.41	1970 Dec 18 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1851	2440939.56	1970 Dec 19 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A138	2440940.29	1970 Dec 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1852	2440942.12	1970 Dec 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1853	2440942.15	1970 Dec 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1855	2440942.29	1970 Dec 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1856	2440942.38	1970 Dec 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1857	2440942.57	1970 Dec 22 0136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1858	2440943.02	1970 Dec 22 1230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1859	2440943.15	1970 Dec 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1861	2440943.16	1970 Dec 22 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-A139	2440943.30	1970 Dec 22 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1862	2440943.38	1970 Dec 22 2108:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1863	2440943.50	1970 Dec 23 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1864	2440944.08	1970 Dec 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1865	2440944.12	1970 Dec 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-Y339	2440944.21	1970 Dec 23 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1867	2440944.24	1970 Dec 23 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1868	2440944.27	1970 Dec 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1869	2440944.29	1970 Dec 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1870	2440944.31	1970 Dec 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1871	2440944.34	1970 Dec 23 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1873	2440944.42	1970 Dec 23 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1874	2440944.57	1970 Dec 24 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1876	2440947.29	1970 Dec 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1877	2440949.12	1970 Dec 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1879	2440949.27	1970 Dec 28 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1880	2440949.29	1970 Dec 28 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1881	2440949.48	1970 Dec 28 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1882	2440949.56	1970 Dec 29 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1883	2440950.15	1970 Dec 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1885	2440950.32	1970 Dec 29 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1886	2440950.39	1970 Dec 29 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1887	2440951.08	1970 Dec 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1888	2440951.12	1970 Dec 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1891	2440951.29	1970 Dec 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-W1892	2440951.39	1970 Dec 30 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1893	2440951.41	1970 Dec 30 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1894	2440951.57	1970 Dec 31 0136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1896	2440952.31	1970 Dec 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1970-W1897	2440952.38	1970 Dec 31 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W02	2440955.35	1971 Jan 3 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W975	2441154.28	1971 Jul 21 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W976	2441154.42	1971 Jul 21 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W977	2441154.57	1971 Jul 22 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W978	2441155.26	1971 Jul 22 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W979	2441155.39	1971 Jul 22 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W980	2441156.06	1971 Jul 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W981	2441156.08	1971 Jul 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W982	2441156.09	1971 Jul 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W983	2441156.12	1971 Jul 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y226	2441156.13	1971 Jul 23 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W984	2441156.17	1971 Jul 23 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W985	2441156.19	1971 Jul 23 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W986	2441156.31	1971 Jul 23 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W987	2441156.39	1971 Jul 23 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W988	2441156.44	1971 Jul 23 2238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W989	2441157.03	1971 Jul 24 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W990	2441158.03	1971 Jul 25 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W991	2441159.08	1971 Jul 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W992	2441159.09	1971 Jul 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W993	2441159.12	1971 Jul 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W994	2441159.13	1971 Jul 26 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W995	2441159.19	1971 Jul 26 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W996	2441159.21	1971 Jul 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W997	2441159.22	1971 Jul 26 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W998	2441159.30	1971 Jul 26 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W999	2441159.38	1971 Jul 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1000	2441159.57	1971 Jul 27 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1001	2441160.14	1971 Jul 27 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1002	2441160.23	1971 Jul 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y228	2441160.92	1971 Jul 28 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1003	2441161.08	1971 Jul 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A63	2441161.09	1971 Jul 28 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1006	2441161.12	1971 Jul 28 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1007	2441161.12	1971 Jul 28 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1008	2441161.12	1971 Jul 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1010	2441161.15	1971 Jul 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y230	2441161.15	1971 Jul 28 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1011	2441161.17	1971 Jul 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1012	2441161.18	1971 Jul 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1013	2441161.20	1971 Jul 28 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1015	2441161.27	1971 Jul 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1016	2441161.56	1971 Jul 29 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1017	2441162.10	1971 Jul 29 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1018	2441162.22	1971 Jul 29 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1019	2441162.25	1971 Jul 29 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1020	2441163.08	1971 Jul 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1021	2441163.09	1971 Jul 30 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1022	2441163.10	1971 Jul 30 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1023	2441163.12	1971 Jul 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1024	2441163.22	1971 Jul 30 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1025	2441163.24	1971 Jul 30 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1026	2441163.26	1971 Jul 30 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1027	2441163.29	1971 Jul 30 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1028	2441163.38	1971 Jul 30 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1031	2441163.59	1971 Jul 31 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1032	2441166.07	1971 Aug 2 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1033	2441166.08	1971 Aug 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1034	2441166.10	1971 Aug 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1035	2441166.12	1971 Aug 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1036	2441166.25	1971 Aug 2 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1037	2441166.25	1971 Aug 2 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1038	2441166.29	1971 Aug 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A65	2441166.29	1971 Aug 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1039	2441166.33	1971 Aug 2 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1040	2441166.40	1971 Aug 2 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1041	2441166.56	1971 Aug 3 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1042	2441167.12	1971 Aug 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1044	2441167.34	1971 Aug 3 2010:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y234	2441167.92	1971 Aug 4 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1045	2441168.06	1971 Aug 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1046	2441168.08	1971 Aug 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1047	2441168.12	1971 Aug 4 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1048	2441168.13	1971 Aug 4 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y238	2441168.14	1971 Aug 4 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1050	2441168.14	1971 Aug 4 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1051	2441168.17	1971 Aug 4 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1052	2441168.17	1971 Aug 4 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A66	2441168.22	1971 Aug 4 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1053	2441168.24	1971 Aug 4 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1054	2441168.34	1971 Aug 4 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-Y239	2441168.38	1971 Aug 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1055	2441168.39	1971 Aug 4 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1056	2441168.56	1971 Aug 5 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1057	2441169.21	1971 Aug 5 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1058	2441169.22	1971 Aug 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1059	2441169.38	1971 Aug 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1060	2441170.07	1971 Aug 6 1341:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1061	2441170.08	1971 Aug 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1062	2441170.09	1971 Aug 6 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1064	2441170.12	1971 Aug 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1065	2441170.13	1971 Aug 6 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1066	2441170.16	1971 Aug 6 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1067	2441170.20	1971 Aug 6 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1068	2441170.24	1971 Aug 6 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1069	2441170.38	1971 Aug 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1070	2441170.56	1971 Aug 7 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y240	2441171.38	1971 Aug 7 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1072	2441171.40	1971 Aug 7 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1073	2441173.08	1971 Aug 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1074	2441173.11	1971 Aug 9 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A67	2441173.13	1971 Aug 9 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1075	2441173.17	1971 Aug 9 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A68	2441173.24	1971 Aug 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1076	2441173.31	1971 Aug 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1078	2441173.44	1971 Aug 9 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1079	2441173.56	1971 Aug 10 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1081	2441174.47	1971 Aug 10 2318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y242	2441174.94	1971 Aug 11 1034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1082	2441175.08	1971 Aug 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1083	2441175.11	1971 Aug 11 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y246	2441175.13	1971 Aug 11 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1085	2441175.15	1971 Aug 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1086	2441175.16	1971 Aug 11 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1087	2441175.18	1971 Aug 11 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1088	2441175.18	1971 Aug 11 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1089	2441175.33	1971 Aug 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y247	2441175.44	1971 Aug 11 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1090	2441175.45	1971 Aug 11 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1091	2441175.58	1971 Aug 12 0154:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1092	2441176.12	1971 Aug 12 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1093	2441176.18	1971 Aug 12 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1094	2441176.39	1971 Aug 12 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1095	2441177.01	1971 Aug 13 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1096	2441177.06	1971 Aug 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1097	2441177.09	1971 Aug 13 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1098	2441177.09	1971 Aug 13 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1099	2441177.10	1971 Aug 13 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1100	2441177.12	1971 Aug 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1101	2441177.15	1971 Aug 13 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1102	2441177.18	1971 Aug 13 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1103	2441177.19	1971 Aug 13 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1104	2441177.20	1971 Aug 13 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1105	2441177.29	1971 Aug 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1106	2441177.56	1971 Aug 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1108	2441180.11	1971 Aug 16 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1109	2441180.12	1971 Aug 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1110	2441180.12	1971 Aug 16 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1111	2441180.18	1971 Aug 16 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1112	2441180.20	1971 Aug 16 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1113	2441180.21	1971 Aug 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1114	2441180.25	1971 Aug 16 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1115	2441180.38	1971 Aug 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1116	2441180.46	1971 Aug 16 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1117	2441180.56	1971 Aug 17 0131:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1118	2441181.20	1971 Aug 17 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1119	2441181.38	1971 Aug 17 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A69	2441182.08	1971 Aug 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1120	2441182.08	1971 Aug 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1121	2441182.08	1971 Aug 18 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1122	2441182.10	1971 Aug 18 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1123	2441182.12	1971 Aug 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1124	2441182.12	1971 Aug 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1125	2441182.17	1971 Aug 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1126	2441182.21	1971 Aug 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1127	2441182.33	1971 Aug 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y253	2441182.42	1971 Aug 18 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1128	2441182.43	1971 Aug 18 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1129	2441182.58	1971 Aug 19 0157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1130	2441183.16	1971 Aug 19 1554:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1131	2441183.40	1971 Aug 19 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1132	2441183.96	1971 Aug 20 1102:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1133	2441183.97	1971 Aug 20 1111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1134	2441184.06	1971 Aug 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1135	2441184.08	1971 Aug 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1136	2441184.12	1971 Aug 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1137	2441184.12	1971 Aug 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1138	2441184.15	1971 Aug 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1139	2441184.15	1971 Aug 20 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1140	2441184.17	1971 Aug 20 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1141	2441184.21	1971 Aug 20 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1142	2441184.33	1971 Aug 20 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1143	2441184.38	1971 Aug 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1144	2441184.57	1971 Aug 21 0141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1145	2441187.08	1971 Aug 23 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1146	2441187.08	1971 Aug 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1148	2441187.12	1971 Aug 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1149	2441187.17	1971 Aug 23 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1150	2441187.21	1971 Aug 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1151	2441187.25	1971 Aug 23 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1152	2441187.30	1971 Aug 23 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1153	2441187.35	1971 Aug 23 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1154	2441187.40	1971 Aug 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1155	2441187.56	1971 Aug 24 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1156	2441188.21	1971 Aug 24 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1157	2441188.38	1971 Aug 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y258	2441188.97	1971 Aug 25 1115:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1158	2441189.06	1971 Aug 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1159	2441189.08	1971 Aug 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1160	2441189.12	1971 Aug 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1162	2441189.19	1971 Aug 25 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1163	2441189.24	1971 Aug 25 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y260	2441189.25	1971 Aug 25 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1164	2441189.30	1971 Aug 25 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1165	2441189.31	1971 Aug 25 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1166	2441189.33	1971 Aug 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1167	2441189.40	1971 Aug 25 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1168	2441190.23	1971 Aug 26 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1169	2441190.42	1971 Aug 26 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1170	2441191.06	1971 Aug 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1171	2441191.08	1971 Aug 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1173	2441191.12	1971 Aug 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1174	2441191.21	1971 Aug 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1175	2441191.23	1971 Aug 27 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1176	2441191.25	1971 Aug 27 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1177	2441191.30	1971 Aug 27 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1178	2441191.38	1971 Aug 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1179	2441191.44	1971 Aug 27 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1180	2441194.05	1971 Aug 30 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1181	2441194.08	1971 Aug 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A71	2441194.13	1971 Aug 30 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1183	2441194.17	1971 Aug 30 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1184	2441194.19	1971 Aug 30 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A72	2441194.25	1971 Aug 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1185	2441194.33	1971 Aug 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1186	2441194.38	1971 Aug 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1188	2441194.56	1971 Aug 31 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1189	2441195.09	1971 Aug 31 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1191	2441195.31	1971 Aug 31 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1192	2441195.43	1971 Aug 31 2225:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1193	2441195.76	1971 Sep 1 0614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y265	2441195.92	1971 Sep 1 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1194	2441196.01	1971 Sep 1 1211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1195	2441196.04	1971 Sep 1 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1196	2441196.08	1971 Sep 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1197	2441196.09	1971 Sep 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1198	2441196.11	1971 Sep 1 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1199	2441196.11	1971 Sep 1 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1201	2441196.13	1971 Sep 1 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1202	2441196.14	1971 Sep 1 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1203	2441196.17	1971 Sep 1 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1204	2441196.17	1971 Sep 1 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1205	2441196.17	1971 Sep 1 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1206	2441196.32	1971 Sep 1 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1207	2441196.43	1971 Sep 1 2222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1208	2441196.56	1971 Sep 2 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1209	2441197.17	1971 Sep 2 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1210	2441197.42	1971 Sep 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1211	2441198.06	1971 Sep 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1212	2441198.08	1971 Sep 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1213	2441198.10	1971 Sep 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1214	2441198.20	1971 Sep 3 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1215	2441198.38	1971 Sep 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1216	2441198.57	1971 Sep 4 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1217	2441202.21	1971 Sep 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1218	2441202.29	1971 Sep 7 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A74	2441202.29	1971 Sep 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1219	2441202.29	1971 Sep 7 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1220	2441202.38	1971 Sep 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1221	2441202.44	1971 Sep 7 2226:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y270	2441202.92	1971 Sep 8 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1223	2441203.06	1971 Sep 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1224	2441203.08	1971 Sep 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1225	2441203.08	1971 Sep 8 1402:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1226	2441203.14	1971 Sep 8 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1227	2441203.20	1971 Sep 8 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1228	2441203.21	1971 Sep 8 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1229	2441203.32	1971 Sep 8 1941:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1230	2441203.38	1971 Sep 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1231	2441203.59	1971 Sep 9 0209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1232	2441204.21	1971 Sep 9 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1233	2441204.38	1971 Sep 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1234	2441205.08	1971 Sep 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1235	2441205.08	1971 Sep 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1236	2441205.10	1971 Sep 10 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1238	2441205.11	1971 Sep 10 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1239	2441205.12	1971 Sep 10 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1240	2441205.21	1971 Sep 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1241	2441205.38	1971 Sep 10 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1242	2441205.57	1971 Sep 11 0136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1243	2441208.08	1971 Sep 13 1352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A76	2441208.08	1971 Sep 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1245	2441208.21	1971 Sep 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1246	2441208.30	1971 Sep 13 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1247	2441208.38	1971 Sep 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1248	2441208.61	1971 Sep 14 0244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1249	2441209.38	1971 Sep 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1251	2441210.06	1971 Sep 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1252	2441210.08	1971 Sep 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1254	2441210.12	1971 Sep 15 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1255	2441210.17	1971 Sep 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1256	2441210.17	1971 Sep 15 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1257	2441210.23	1971 Sep 15 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1258	2441210.38	1971 Sep 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1259	2441210.56	1971 Sep 16 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1260	2441211.42	1971 Sep 16 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1261	2441211.52	1971 Sep 17 0033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1262	2441211.75	1971 Sep 17 0553:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1263	2441212.06	1971 Sep 17 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1264	2441212.08	1971 Sep 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1265	2441212.09	1971 Sep 17 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1266	2441212.10	1971 Sep 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1268	2441212.14	1971 Sep 17 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1269	2441212.19	1971 Sep 17 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1270	2441212.23	1971 Sep 17 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1272	2441212.56	1971 Sep 18 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1273	2441215.06	1971 Sep 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1274	2441215.08	1971 Sep 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1276	2441215.16	1971 Sep 20 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1277	2441215.23	1971 Sep 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1278	2441215.26	1971 Sep 20 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1279	2441215.38	1971 Sep 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1280	2441215.57	1971 Sep 21 0133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1281	2441216.12	1971 Sep 21 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1282	2441216.15	1971 Sep 21 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1283	2441216.39	1971 Sep 21 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y282	2441216.92	1971 Sep 22 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1284	2441217.06	1971 Sep 22 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1285	2441217.08	1971 Sep 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1287	2441217.13	1971 Sep 22 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y284	2441217.15	1971 Sep 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1288	2441217.20	1971 Sep 22 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1289	2441217.23	1971 Sep 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1290	2441217.23	1971 Sep 22 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1291	2441217.25	1971 Sep 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1292	2441217.30	1971 Sep 22 1918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1293	2441217.38	1971 Sep 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1294	2441217.56	1971 Sep 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1295	2441218.11	1971 Sep 23 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1296	2441218.15	1971 Sep 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1297	2441218.38	1971 Sep 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1299	2441219.04	1971 Sep 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1300	2441219.06	1971 Sep 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1301	2441219.08	1971 Sep 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1303	2441219.21	1971 Sep 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1304	2441219.38	1971 Sep 24 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1305	2441219.56	1971 Sep 25 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1306	2441220.19	1971 Sep 25 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1308	2441222.06	1971 Sep 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1309	2441222.21	1971 Sep 27 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1310	2441222.21	1971 Sep 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1311	2441222.30	1971 Sep 27 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1312	2441222.38	1971 Sep 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1313	2441222.60	1971 Sep 28 0217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1314	2441223.19	1971 Sep 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1315	2441223.38	1971 Sep 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1318	2441224.21	1971 Sep 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1319	2441224.24	1971 Sep 29 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1320	2441224.32	1971 Sep 29 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1321	2441224.38	1971 Sep 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1322	2441224.56	1971 Sep 30 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A84	2441225.17	1971 Sep 30 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1323	2441225.35	1971 Sep 30 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1324	2441225.39	1971 Sep 30 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1325	2441226.08	1971 Oct 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1327	2441226.13	1971 Oct 1 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1328	2441226.21	1971 Oct 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1329	2441226.23	1971 Oct 1 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1330	2441226.43	1971 Oct 1 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1331	2441229.06	1971 Oct 4 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1332	2441229.08	1971 Oct 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1334	2441229.16	1971 Oct 4 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1335	2441229.21	1971 Oct 4 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1336	2441229.23	1971 Oct 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1337	2441229.30	1971 Oct 4 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1338	2441229.38	1971 Oct 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1339	2441230.38	1971 Oct 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1340	2441230.43	1971 Oct 5 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y300	2441230.96	1971 Oct 6 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1341	2441231.08	1971 Oct 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1342	2441231.08	1971 Oct 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1344	2441231.21	1971 Oct 6 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1345	2441231.23	1971 Oct 6 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1346	2441231.35	1971 Oct 6 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1347	2441231.41	1971 Oct 6 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1348	2441231.56	1971 Oct 7 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1350	2441232.13	1971 Oct 7 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1351	2441232.15	1971 Oct 7 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1352	2441232.21	1971 Oct 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1353	2441232.22	1971 Oct 7 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1354	2441232.25	1971 Oct 7 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1355	2441232.26	1971 Oct 7 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A86	2441232.27	1971 Oct 7 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1356	2441232.30	1971 Oct 7 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1357	2441232.32	1971 Oct 7 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1358	2441232.35	1971 Oct 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1359	2441233.07	1971 Oct 8 1336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1360	2441233.08	1971 Oct 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1361	2441233.12	1971 Oct 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1363	2441233.34	1971 Oct 8 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1364	2441233.56	1971 Oct 9 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1365	2441237.21	1971 Oct 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1366	2441237.30	1971 Oct 12 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1367	2441237.34	1971 Oct 12 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1368	2441237.43	1971 Oct 12 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1369	2441238.08	1971 Oct 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1371	2441238.16	1971 Oct 13 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1372	2441238.21	1971 Oct 13 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1373	2441238.24	1971 Oct 13 1747:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1375	2441238.25	1971 Oct 13 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1376	2441238.29	1971 Oct 13 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1378	2441238.36	1971 Oct 13 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1379	2441238.37	1971 Oct 13 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1380	2441238.56	1971 Oct 14 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1382	2441239.38	1971 Oct 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1383	2441239.44	1971 Oct 14 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1384	2441239.50	1971 Oct 15 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1385	2441240.08	1971 Oct 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1386	2441240.08	1971 Oct 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1387	2441240.10	1971 Oct 15 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1389	2441240.27	1971 Oct 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1390	2441240.58	1971 Oct 16 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1391	2441243.06	1971 Oct 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1392	2441243.08	1971 Oct 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1394	2441243.27	1971 Oct 18 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1395	2441243.38	1971 Oct 18 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1396	2441243.57	1971 Oct 19 0141:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A87	2441244.13	1971 Oct 19 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1397	2441244.17	1971 Oct 19 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1398	2441244.38	1971 Oct 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y318	2441244.93	1971 Oct 20 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1399	2441245.06	1971 Oct 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1400	2441245.08	1971 Oct 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1403	2441245.23	1971 Oct 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1404	2441245.32	1971 Oct 20 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1405	2441245.34	1971 Oct 20 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1406	2441245.40	1971 Oct 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1407	2441245.56	1971 Oct 21 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1408	2441246.17	1971 Oct 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1409	2441246.38	1971 Oct 21 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1410	2441247.08	1971 Oct 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1411	2441247.09	1971 Oct 22 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1413	2441247.23	1971 Oct 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1414	2441247.23	1971 Oct 22 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1415	2441247.40	1971 Oct 22 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1416	2441247.42	1971 Oct 22 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1417	2441247.56	1971 Oct 23 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1419	2441251.17	1971 Oct 26 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1420	2441251.30	1971 Oct 26 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1421	2441251.31	1971 Oct 26 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1422	2441251.38	1971 Oct 26 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1423	2441252.06	1971 Oct 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1424	2441252.07	1971 Oct 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1425	2441252.08	1971 Oct 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1426	2441252.09	1971 Oct 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1429	2441252.17	1971 Oct 27 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1430	2441252.19	1971 Oct 27 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1432	2441252.22	1971 Oct 27 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1433	2441252.38	1971 Oct 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1434	2441252.57	1971 Oct 28 0142:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y325	2441252.85	1971 Oct 28 0826:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1435	2441253.21	1971 Oct 28 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1436	2441253.38	1971 Oct 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A90	2441254.06	1971 Oct 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1437	2441254.08	1971 Oct 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1439	2441254.21	1971 Oct 29 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1440	2441254.23	1971 Oct 29 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1441	2441254.26	1971 Oct 29 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1442	2441254.28	1971 Oct 29 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1443	2441257.08	1971 Nov 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1444	2441257.12	1971 Nov 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1446	2441257.18	1971 Nov 1 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1447	2441257.29	1971 Nov 1 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1448	2441257.38	1971 Nov 1 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y328	2441258.95	1971 Nov 3 1054:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1452	2441259.08	1971 Nov 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1453	2441259.10	1971 Nov 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y330	2441259.19	1971 Nov 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1456	2441259.22	1971 Nov 3 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1457	2441259.25	1971 Nov 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1458	2441259.29	1971 Nov 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1461	2441260.13	1971 Nov 4 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1462	2441260.15	1971 Nov 4 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1464	2441260.24	1971 Nov 4 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1465	2441260.28	1971 Nov 4 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1466	2441261.10	1971 Nov 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1467	2441261.12	1971 Nov 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1468	2441261.18	1971 Nov 5 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1469	2441261.23	1971 Nov 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1470	2441261.31	1971 Nov 5 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1471	2441264.08	1971 Nov 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1472	2441264.10	1971 Nov 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1473	2441264.12	1971 Nov 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1475	2441264.23	1971 Nov 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1476	2441264.29	1971 Nov 8 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1477	2441264.31	1971 Nov 8 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1478	2441264.33	1971 Nov 8 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1479	2441264.38	1971 Nov 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1480	2441265.05	1971 Nov 9 1307:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y331	2441265.17	1971 Nov 9 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1481	2441265.19	1971 Nov 9 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1482	2441265.35	1971 Nov 9 2019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1483	2441266.10	1971 Nov 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1484	2441266.12	1971 Nov 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1485	2441266.12	1971 Nov 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1487	2441266.24	1971 Nov 10 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1488	2441266.26	1971 Nov 10 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1489	2441266.35	1971 Nov 10 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1490	2441266.42	1971 Nov 10 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1491	2441267.38	1971 Nov 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A96	2441267.48	1971 Nov 11 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1492	2441268.08	1971 Nov 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1493	2441268.13	1971 Nov 12 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1494	2441268.15	1971 Nov 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1495	2441268.23	1971 Nov 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1497	2441268.27	1971 Nov 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1498	2441268.29	1971 Nov 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1499	2441271.11	1971 Nov 15 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1501	2441271.19	1971 Nov 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1502	2441271.25	1971 Nov 15 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1503	2441271.25	1971 Nov 15 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1504	2441271.28	1971 Nov 15 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1505	2441271.29	1971 Nov 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1506	2441271.34	1971 Nov 15 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1507	2441271.42	1971 Nov 15 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y335	2441272.10	1971 Nov 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1509	2441272.20	1971 Nov 16 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1510	2441272.31	1971 Nov 16 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1511	2441272.38	1971 Nov 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y338	2441272.92	1971 Nov 17 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1512	2441273.08	1971 Nov 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-A98	2441273.11	1971 Nov 17 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1514	2441273.12	1971 Nov 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1515	2441273.12	1971 Nov 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1517	2441273.21	1971 Nov 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A99	2441273.25	1971 Nov 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1518	2441273.35	1971 Nov 17 2023:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1519	2441273.36	1971 Nov 17 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1520	2441273.38	1971 Nov 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A100	2441274.17	1971 Nov 18 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y342	2441274.20	1971 Nov 18 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1522	2441274.23	1971 Nov 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1523	2441274.23	1971 Nov 18 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1524	2441274.25	1971 Nov 18 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1525	2441274.34	1971 Nov 18 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1526	2441275.08	1971 Nov 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1527	2441275.10	1971 Nov 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1528	2441275.10	1971 Nov 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1529	2441275.12	1971 Nov 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1530	2441275.12	1971 Nov 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1532	2441275.38	1971 Nov 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1533	2441275.46	1971 Nov 19 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1534	2441278.08	1971 Nov 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1536	2441278.17	1971 Nov 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1537	2441278.17	1971 Nov 22 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1538	2441278.32	1971 Nov 22 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1539	2441278.38	1971 Nov 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1540	2441278.42	1971 Nov 22 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1541	2441279.16	1971 Nov 23 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1542	2441280.08	1971 Nov 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1543	2441280.12	1971 Nov 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1544	2441280.12	1971 Nov 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1545	2441280.13	1971 Nov 24 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1547	2441280.19	1971 Nov 24 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1548	2441280.22	1971 Nov 24 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1549	2441280.31	1971 Nov 24 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1550	2441280.34	1971 Nov 24 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1551	2441280.37	1971 Nov 24 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1552	2441280.48	1971 Nov 24 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1554	2441282.08	1971 Nov 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1555	2441282.08	1971 Nov 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1556	2441282.11	1971 Nov 26 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1557	2441282.12	1971 Nov 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1559	2441282.19	1971 Nov 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1560	2441282.29	1971 Nov 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1561	2441285.08	1971 Nov 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1562	2441285.12	1971 Nov 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1563	2441285.14	1971 Nov 29 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1565	2441285.22	1971 Nov 29 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1566	2441285.25	1971 Nov 29 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1567	2441285.31	1971 Nov 29 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1568	2441285.46	1971 Nov 29 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1569	2441285.47	1971 Nov 29 2313:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1571	2441286.19	1971 Nov 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y348	2441286.20	1971 Nov 30 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1572	2441286.22	1971 Nov 30 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1573	2441286.28	1971 Nov 30 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1574	2441286.38	1971 Nov 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y351	2441286.92	1971 Dec 1 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1575	2441287.08	1971 Dec 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1576	2441287.10	1971 Dec 1 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A101	2441287.11	1971 Dec 1 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1577	2441287.12	1971 Dec 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1578	2441287.12	1971 Dec 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A102	2441287.14	1971 Dec 1 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y353	2441287.23	1971 Dec 1 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A103	2441287.27	1971 Dec 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1580	2441287.33	1971 Dec 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1581	2441287.38	1971 Dec 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1582	2441287.38	1971 Dec 1 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1583	2441287.40	1971 Dec 1 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1585	2441288.23	1971 Dec 2 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1586	2441288.38	1971 Dec 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A104	2441289.12	1971 Dec 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1587	2441289.12	1971 Dec 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1588	2441289.13	1971 Dec 3 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1590	2441289.22	1971 Dec 3 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1591	2441289.38	1971 Dec 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1592	2441289.39	1971 Dec 3 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1593	2441292.12	1971 Dec 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1595	2441292.21	1971 Dec 6 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1596	2441292.30	1971 Dec 6 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1597	2441292.31	1971 Dec 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A107	2441293.35	1971 Dec 7 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1599	2441293.38	1971 Dec 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1600	2441294.08	1971 Dec 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1601	2441294.10	1971 Dec 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W1602	2441294.12	1971 Dec 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1604	2441294.23	1971 Dec 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1605	2441294.23	1971 Dec 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1606	2441294.33	1971 Dec 8 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1608	2441294.40	1971 Dec 8 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1609	2441295.12	1971 Dec 9 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1610	2441295.19	1971 Dec 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1611	2441295.21	1971 Dec 9 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1613	2441296.08	1971 Dec 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1615	2441296.10	1971 Dec 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1616	2441296.11	1971 Dec 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1617	2441296.12	1971 Dec 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1618	2441296.13	1971 Dec 10 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1620	2441296.17	1971 Dec 10 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1621	2441296.18	1971 Dec 10 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1624	2441299.08	1971 Dec 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1625	2441299.12	1971 Dec 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A109	2441299.16	1971 Dec 13 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1627	2441299.21	1971 Dec 13 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1628	2441299.24	1971 Dec 13 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1629	2441299.27	1971 Dec 13 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1630	2441299.33	1971 Dec 13 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1631	2441300.27	1971 Dec 14 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1632	2441300.42	1971 Dec 14 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1633	2441300.44	1971 Dec 14 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y362	2441300.96	1971 Dec 15 1104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1634	2441301.08	1971 Dec 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1635	2441301.10	1971 Dec 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1636	2441301.14	1971 Dec 15 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1638	2441301.19	1971 Dec 15 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y365	2441301.19	1971 Dec 15 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1639	2441301.21	1971 Dec 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1640	2441301.21	1971 Dec 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y366	2441301.23	1971 Dec 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y367	2441301.27	1971 Dec 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1641	2441301.38	1971 Dec 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1643	2441302.11	1971 Dec 16 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1645	2441302.17	1971 Dec 16 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1646	2441302.17	1971 Dec 16 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-A110	2441302.32	1971 Dec 16 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1647	2441302.43	1971 Dec 16 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1648	2441303.08	1971 Dec 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1649	2441303.14	1971 Dec 17 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1651	2441303.18	1971 Dec 17 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1652	2441303.19	1971 Dec 17 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1653	2441303.47	1971 Dec 17 2310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1654	2441306.10	1971 Dec 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1655	2441306.12	1971 Dec 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1657	2441306.20	1971 Dec 20 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1658	2441306.20	1971 Dec 20 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1659	2441306.38	1971 Dec 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1661	2441307.19	1971 Dec 21 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1662	2441307.37	1971 Dec 21 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1664	2441308.10	1971 Dec 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1665	2441308.12	1971 Dec 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1667	2441308.19	1971 Dec 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1668	2441308.37	1971 Dec 22 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1671	2441309.38	1971 Dec 23 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1673	2441313.10	1971 Dec 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1674	2441313.38	1971 Dec 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1675	2441314.12	1971 Dec 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1677	2441314.31	1971 Dec 28 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1678	2441314.45	1971 Dec 28 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1679	2441315.10	1971 Dec 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1680	2441315.13	1971 Dec 29 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y378	2441315.20	1971 Dec 29 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1682	2441315.26	1971 Dec 29 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-Y379	2441315.30	1971 Dec 29 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1684	2441315.40	1971 Dec 29 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1685	2441315.42	1971 Dec 29 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1686	2441316.12	1971 Dec 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1688	2441316.25	1971 Dec 30 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1971-W1690	2441316.38	1971 Dec 30 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W05	2441320.11	1972 Jan 3 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W983	2441530.09	1972 Jul 31 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W984	2441530.25	1972 Jul 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W985	2441530.26	1972 Jul 31 1811:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W986	2441530.47	1972 Jul 31 2314:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W987	2441532.08	1972 Aug 2 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W988	2441532.08	1972 Aug 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W989	2441532.10	1972 Aug 2 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W991	2441532.11	1972 Aug 2 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W992	2441532.12	1972 Aug 2 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W993	2441532.12	1972 Aug 2 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y183	2441532.17	1972 Aug 2 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W994	2441532.21	1972 Aug 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W995	2441532.27	1972 Aug 2 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W996	2441532.37	1972 Aug 2 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W997	2441532.41	1972 Aug 2 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W998	2441532.51	1972 Aug 3 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W999	2441534.08	1972 Aug 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1000	2441534.10	1972 Aug 4 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1001	2441534.12	1972 Aug 4 1457:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1002	2441534.15	1972 Aug 4 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1003	2441534.31	1972 Aug 4 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1004	2441534.42	1972 Aug 4 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1005	2441534.46	1972 Aug 4 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1006	2441537.08	1972 Aug 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1007	2441537.12	1972 Aug 7 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1008	2441537.19	1972 Aug 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1009	2441537.21	1972 Aug 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1010	2441537.27	1972 Aug 7 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1011	2441537.39	1972 Aug 7 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1012	2441537.58	1972 Aug 8 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1013	2441538.17	1972 Aug 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1014	2441538.25	1972 Aug 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1015	2441539.08	1972 Aug 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1017	2441539.17	1972 Aug 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1018	2441539.25	1972 Aug 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1019	2441539.28	1972 Aug 9 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1020	2441539.31	1972 Aug 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1021	2441539.36	1972 Aug 9 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1022	2441539.50	1972 Aug 9 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1023	2441541.07	1972 Aug 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1024	2441541.09	1972 Aug 11 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1026	2441541.22	1972 Aug 11 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1027	2441541.23	1972 Aug 11 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1028	2441541.27	1972 Aug 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1029	2441541.32	1972 Aug 11 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1030	2441541.50	1972 Aug 12 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1031	2441541.69	1972 Aug 12 0440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1032	2441541.91	1972 Aug 12 0956:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1033	2441542.46	1972 Aug 12 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1034	2441542.54	1972 Aug 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1035	2441542.69	1972 Aug 13 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1036	2441543.23	1972 Aug 13 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1037	2441544.08	1972 Aug 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1038	2441544.08	1972 Aug 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1039	2441544.15	1972 Aug 14 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1041	2441544.29	1972 Aug 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1042	2441544.30	1972 Aug 14 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1043	2441544.30	1972 Aug 14 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1044	2441544.39	1972 Aug 14 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A87	2441546.08	1972 Aug 16 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1045	2441546.09	1972 Aug 16 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1046	2441546.10	1972 Aug 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1047	2441546.11	1972 Aug 16 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A88	2441546.13	1972 Aug 16 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1049	2441546.13	1972 Aug 16 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1051	2441546.21	1972 Aug 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1052	2441546.27	1972 Aug 16 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1054	2441546.38	1972 Aug 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1055	2441547.13	1972 Aug 17 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1056	2441547.15	1972 Aug 17 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1057	2441548.07	1972 Aug 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1059	2441548.12	1972 Aug 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1060	2441548.14	1972 Aug 18 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1061	2441548.27	1972 Aug 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1062	2441548.27	1972 Aug 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1063	2441548.30	1972 Aug 18 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1064	2441548.38	1972 Aug 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1065	2441551.08	1972 Aug 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1067	2441551.12	1972 Aug 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1068	2441551.25	1972 Aug 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1069	2441551.30	1972 Aug 21 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1070	2441551.38	1972 Aug 21 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1071	2441553.07	1972 Aug 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1072	2441553.08	1972 Aug 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1074	2441553.14	1972 Aug 23 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1075	2441553.14	1972 Aug 23 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1076	2441553.23	1972 Aug 23 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1077	2441553.27	1972 Aug 23 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1078	2441553.27	1972 Aug 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y202	2441553.43	1972 Aug 23 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1079	2441553.45	1972 Aug 23 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1080	2441555.09	1972 Aug 25 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1081	2441555.11	1972 Aug 25 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A92	2441555.12	1972 Aug 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1083	2441555.18	1972 Aug 25 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1084	2441555.20	1972 Aug 25 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1085	2441555.24	1972 Aug 25 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1086	2441555.27	1972 Aug 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1087	2441555.50	1972 Aug 25 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1088	2441558.07	1972 Aug 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1089	2441558.08	1972 Aug 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1090	2441558.10	1972 Aug 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1092	2441558.12	1972 Aug 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1093	2441558.15	1972 Aug 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1094	2441558.21	1972 Aug 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1095	2441558.27	1972 Aug 28 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1096	2441558.38	1972 Aug 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1097	2441558.49	1972 Aug 28 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1100	2441560.07	1972 Aug 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1101	2441560.09	1972 Aug 30 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1102	2441560.10	1972 Aug 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1103	2441560.10	1972 Aug 30 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A93	2441560.12	1972 Aug 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1105	2441560.12	1972 Aug 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1107	2441560.21	1972 Aug 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1108	2441560.28	1972 Aug 30 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1109	2441560.28	1972 Aug 30 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1111	2441561.42	1972 Aug 31 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1112	2441562.07	1972 Sep 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1113	2441562.08	1972 Sep 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1114	2441562.11	1972 Sep 1 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1115	2441562.12	1972 Sep 1 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1116	2441562.38	1972 Sep 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1117	2441562.49	1972 Sep 1 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1118	2441566.21	1972 Sep 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1119	2441566.27	1972 Sep 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1120	2441567.07	1972 Sep 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1121	2441567.08	1972 Sep 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1122	2441567.10	1972 Sep 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A95	2441567.12	1972 Sep 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1123	2441567.12	1972 Sep 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A96	2441567.18	1972 Sep 6 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1124	2441567.21	1972 Sep 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1125	2441567.27	1972 Sep 6 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1126	2441567.39	1972 Sep 6 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1127	2441567.50	1972 Sep 7 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1129	2441568.21	1972 Sep 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1130	2441569.07	1972 Sep 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1131	2441569.08	1972 Sep 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1132	2441569.09	1972 Sep 8 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1133	2441569.19	1972 Sep 8 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1134	2441569.21	1972 Sep 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1135	2441569.49	1972 Sep 8 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1136	2441570.22	1972 Sep 9 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1137	2441571.21	1972 Sep 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1138	2441572.08	1972 Sep 11 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1139	2441572.08	1972 Sep 11 1358:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1140	2441572.08	1972 Sep 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A97	2441572.12	1972 Sep 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1141	2441572.21	1972 Sep 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1142	2441572.29	1972 Sep 11 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1144	2441573.33	1972 Sep 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1145	2441574.07	1972 Sep 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1146	2441574.08	1972 Sep 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1147	2441574.10	1972 Sep 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A98	2441574.11	1972 Sep 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A99	2441574.12	1972 Sep 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1148	2441574.12	1972 Sep 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1149	2441574.13	1972 Sep 13 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y217	2441574.19	1972 Sep 13 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1150	2441574.21	1972 Sep 13 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1151	2441574.25	1972 Sep 13 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1152	2441574.25	1972 Sep 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1153	2441574.27	1972 Sep 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1155	2441575.21	1972 Sep 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1156	2441576.08	1972 Sep 15 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1157	2441576.08	1972 Sep 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1158	2441576.11	1972 Sep 15 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1159	2441576.26	1972 Sep 15 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1160	2441576.49	1972 Sep 15 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1162	2441577.21	1972 Sep 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1163	2441578.23	1972 Sep 17 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1164	2441579.07	1972 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1165	2441579.08	1972 Sep 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1166	2441579.12	1972 Sep 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1167	2441579.17	1972 Sep 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1168	2441579.24	1972 Sep 18 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1169	2441579.26	1972 Sep 18 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1170	2441579.27	1972 Sep 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1171	2441579.38	1972 Sep 18 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1173	2441581.08	1972 Sep 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A101	2441581.12	1972 Sep 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A102	2441581.12	1972 Sep 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y226	2441581.15	1972 Sep 20 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1174	2441581.16	1972 Sep 20 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1175	2441581.17	1972 Sep 20 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1177	2441581.25	1972 Sep 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1178	2441581.29	1972 Sep 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y227	2441581.38	1972 Sep 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1179	2441581.40	1972 Sep 20 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1180	2441581.49	1972 Sep 20 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1181	2441583.12	1972 Sep 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1182	2441583.23	1972 Sep 22 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1183	2441583.27	1972 Sep 22 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1184	2441583.49	1972 Sep 22 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1186	2441586.08	1972 Sep 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1187	2441586.12	1972 Sep 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1188	2441586.15	1972 Sep 25 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1189	2441586.15	1972 Sep 25 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1191	2441586.21	1972 Sep 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1192	2441586.26	1972 Sep 25 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1193	2441586.27	1972 Sep 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1194	2441586.53	1972 Sep 26 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1195	2441587.07	1972 Sep 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1196	2441587.17	1972 Sep 26 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1197	2441588.07	1972 Sep 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1198	2441588.08	1972 Sep 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1200	2441588.10	1972 Sep 27 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1201	2441588.11	1972 Sep 27 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1202	2441588.12	1972 Sep 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1203	2441588.15	1972 Sep 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1205	2441588.25	1972 Sep 27 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1206	2441588.27	1972 Sep 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1207	2441590.07	1972 Sep 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1208	2441590.08	1972 Sep 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1210	2441590.12	1972 Sep 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1211	2441590.15	1972 Sep 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1212	2441590.22	1972 Sep 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1213	2441590.38	1972 Sep 29 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1214	2441593.07	1972 Oct 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1215	2441593.08	1972 Oct 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1216	2441593.09	1972 Oct 2 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1218	2441593.14	1972 Oct 2 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1219	2441593.15	1972 Oct 2 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1220	2441593.16	1972 Oct 2 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1221	2441593.21	1972 Oct 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1222	2441593.34	1972 Oct 2 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1223	2441593.38	1972 Oct 2 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1224	2441594.12	1972 Oct 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1225	2441594.17	1972 Oct 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1226	2441595.09	1972 Oct 4 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1227	2441595.10	1972 Oct 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1228	2441595.10	1972 Oct 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1229	2441595.12	1972 Oct 4 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1230	2441595.14	1972 Oct 4 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1231	2441595.15	1972 Oct 4 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1232	2441595.17	1972 Oct 4 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y236	2441595.18	1972 Oct 4 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A103	2441595.23	1972 Oct 4 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1233	2441595.25	1972 Oct 4 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1234	2441595.46	1972 Oct 4 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1236	2441597.07	1972 Oct 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1237	2441597.08	1972 Oct 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1238	2441597.15	1972 Oct 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1239	2441597.21	1972 Oct 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1240	2441597.21	1972 Oct 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1241	2441597.25	1972 Oct 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1242	2441597.42	1972 Oct 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1244	2441600.08	1972 Oct 9 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1245	2441600.08	1972 Oct 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1246	2441601.12	1972 Oct 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1247	2441601.21	1972 Oct 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1249	2441602.07	1972 Oct 11 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1250	2441602.08	1972 Oct 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1251	2441602.12	1972 Oct 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1252	2441602.12	1972 Oct 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1253	2441602.15	1972 Oct 11 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1254	2441602.16	1972 Oct 11 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y241	2441602.17	1972 Oct 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1256	2441602.18	1972 Oct 11 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1257	2441602.28	1972 Oct 11 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1259	2441602.39	1972 Oct 11 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1260	2441602.39	1972 Oct 11 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1261	2441604.07	1972 Oct 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1262	2441604.08	1972 Oct 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1263	2441604.09	1972 Oct 13 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1264	2441604.12	1972 Oct 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1266	2441604.20	1972 Oct 13 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1267	2441604.27	1972 Oct 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1269	2441607.21	1972 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1270	2441607.21	1972 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1271	2441607.34	1972 Oct 16 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1272	2441608.29	1972 Oct 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1273	2441608.42	1972 Oct 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1274	2441608.47	1972 Oct 17 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1275	2441609.07	1972 Oct 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1276	2441609.08	1972 Oct 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1278	2441609.12	1972 Oct 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y246	2441609.17	1972 Oct 18 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1279	2441609.21	1972 Oct 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1280	2441609.21	1972 Oct 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1281	2441609.27	1972 Oct 18 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y247	2441609.29	1972 Oct 18 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1282	2441609.31	1972 Oct 18 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1283	2441609.42	1972 Oct 18 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1284	2441609.49	1972 Oct 18 2338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1285	2441610.09	1972 Oct 19 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1286	2441610.22	1972 Oct 19 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1287	2441611.07	1972 Oct 20 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1288	2441611.07	1972 Oct 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1289	2441611.08	1972 Oct 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1290	2441611.09	1972 Oct 20 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1292	2441611.12	1972 Oct 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1293	2441611.14	1972 Oct 20 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1294	2441611.21	1972 Oct 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y248	2441611.38	1972 Oct 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1295	2441611.40	1972 Oct 20 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1297	2441615.12	1972 Oct 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1298	2441615.21	1972 Oct 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1299	2441616.07	1972 Oct 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1300	2441616.08	1972 Oct 25 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1301	2441616.12	1972 Oct 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1303	2441616.15	1972 Oct 25 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1304	2441616.21	1972 Oct 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1305	2441616.29	1972 Oct 25 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1306	2441616.38	1972 Oct 25 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1307	2441616.39	1972 Oct 25 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1308	2441616.42	1972 Oct 25 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1309	2441616.47	1972 Oct 25 2322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1310	2441617.11	1972 Oct 26 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1311	2441617.30	1972 Oct 26 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1312	2441617.42	1972 Oct 26 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1313	2441617.47	1972 Oct 26 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1314	2441617.52	1972 Oct 27 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1315	2441617.65	1972 Oct 27 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1316	2441618.07	1972 Oct 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1317	2441618.10	1972 Oct 27 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1319	2441618.12	1972 Oct 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1320	2441618.25	1972 Oct 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1321	2441618.38	1972 Oct 27 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1322	2441618.49	1972 Oct 27 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1323	2441621.08	1972 Oct 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1324	2441621.14	1972 Oct 30 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1325	2441621.20	1972 Oct 30 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1326	2441621.21	1972 Oct 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1327	2441621.29	1972 Oct 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1328	2441621.29	1972 Oct 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1329	2441621.38	1972 Oct 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1332	2441622.30	1972 Oct 31 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1333	2441622.41	1972 Oct 31 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1334	2441622.46	1972 Oct 31 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1336	2441622.83	1972 Nov 1 0752:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1337	2441623.08	1972 Nov 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1338	2441623.09	1972 Nov 1 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1339	2441623.20	1972 Nov 1 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1340	2441623.27	1972 Nov 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1341	2441623.29	1972 Nov 1 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1342	2441623.41	1972 Nov 1 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1343	2441623.46	1972 Nov 1 2304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y256	2441623.47	1972 Nov 1 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1344	2441623.49	1972 Nov 1 2352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1345	2441623.50	1972 Nov 1 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1348	2441625.08	1972 Nov 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1349	2441625.09	1972 Nov 3 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1350	2441625.10	1972 Nov 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1351	2441625.14	1972 Nov 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1353	2441625.19	1972 Nov 3 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1354	2441625.26	1972 Nov 3 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1355	2441625.33	1972 Nov 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1356	2441625.38	1972 Nov 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1357	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1358	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1359	2441628.08	1972 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1361	2441628.20	1972 Nov 6 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1362	2441628.29	1972 Nov 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1363	2441628.38	1972 Nov 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1364	2441628.38	1972 Nov 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1367	2441630.08	1972 Nov 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1368	2441630.09	1972 Nov 8 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1369	2441630.12	1972 Nov 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1372	2441630.20	1972 Nov 8 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1373	2441630.21	1972 Nov 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1374	2441630.22	1972 Nov 8 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1375	2441630.30	1972 Nov 8 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1376	2441630.40	1972 Nov 8 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1377	2441630.46	1972 Nov 8 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1378	2441630.47	1972 Nov 8 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1379	2441630.49	1972 Nov 8 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y257	2441630.67	1972 Nov 9 0410:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1380	2441630.70	1972 Nov 9 0448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1382	2441631.29	1972 Nov 9 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1383	2441631.40	1972 Nov 9 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1384	2441631.48	1972 Nov 9 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1386	2441632.07	1972 Nov 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1387	2441632.09	1972 Nov 10 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1388	2441632.09	1972 Nov 10 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1390	2441632.19	1972 Nov 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1392	2441632.28	1972 Nov 10 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1393	2441632.31	1972 Nov 10 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1394	2441632.40	1972 Nov 10 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1395	2441632.42	1972 Nov 10 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1396	2441632.47	1972 Nov 10 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1397	2441635.08	1972 Nov 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1398	2441635.09	1972 Nov 13 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1399	2441635.29	1972 Nov 13 1852:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1400	2441635.30	1972 Nov 13 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1401	2441635.42	1972 Nov 13 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1403	2441637.08	1972 Nov 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1404	2441637.09	1972 Nov 15 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A110	2441637.12	1972 Nov 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1406	2441637.20	1972 Nov 15 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y265	2441637.21	1972 Nov 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1407	2441637.29	1972 Nov 15 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1408	2441637.35	1972 Nov 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1409	2441637.39	1972 Nov 15 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1410	2441637.40	1972 Nov 15 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1411	2441637.45	1972 Nov 15 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1413	2441638.27	1972 Nov 16 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1414	2441638.40	1972 Nov 16 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1415	2441638.45	1972 Nov 16 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1416	2441638.49	1972 Nov 16 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1417	2441639.08	1972 Nov 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1418	2441639.10	1972 Nov 17 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1420	2441639.19	1972 Nov 17 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1421	2441639.25	1972 Nov 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1422	2441639.29	1972 Nov 17 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1423	2441639.31	1972 Nov 17 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y266	2441639.33	1972 Nov 17 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1424	2441639.39	1972 Nov 17 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1425	2441639.42	1972 Nov 17 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1426	2441639.45	1972 Nov 17 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1427	2441642.08	1972 Nov 20 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1429	2441642.27	1972 Nov 20 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1430	2441642.28	1972 Nov 20 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1431	2441642.31	1972 Nov 20 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1432	2441642.36	1972 Nov 20 2038:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1433	2441642.38	1972 Nov 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1434	2441642.49	1972 Nov 20 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1436	2441644.08	1972 Nov 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1437	2441644.09	1972 Nov 22 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1438	2441644.12	1972 Nov 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1439	2441644.13	1972 Nov 22 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1441	2441644.19	1972 Nov 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1442	2441644.21	1972 Nov 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y271	2441644.21	1972 Nov 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1443	2441644.28	1972 Nov 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1444	2441644.29	1972 Nov 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1445	2441644.41	1972 Nov 22 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1448	2441646.29	1972 Nov 24 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A111	2441646.64	1972 Nov 25 0315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1449	2441649.08	1972 Nov 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1450	2441649.11	1972 Nov 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1451	2441649.19	1972 Nov 27 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1452	2441649.29	1972 Nov 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1453	2441649.31	1972 Nov 27 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1454	2441649.34	1972 Nov 27 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1455	2441649.49	1972 Nov 27 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1459	2441651.08	1972 Nov 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A113	2441651.09	1972 Nov 29 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1460	2441651.12	1972 Nov 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1461	2441651.15	1972 Nov 29 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1462	2441651.19	1972 Nov 29 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-Y280	2441651.21	1972 Nov 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1463	2441651.25	1972 Nov 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1464	2441651.27	1972 Nov 29 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1467	2441653.10	1972 Dec 1 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1468	2441653.19	1972 Dec 1 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1469	2441653.25	1972 Dec 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1470	2441653.26	1972 Dec 1 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1471	2441653.29	1972 Dec 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y282	2441653.35	1972 Dec 1 2027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1472	2441653.37	1972 Dec 1 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1474	2441656.08	1972 Dec 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1475	2441656.08	1972 Dec 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1476	2441656.14	1972 Dec 4 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1477	2441656.19	1972 Dec 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1478	2441656.35	1972 Dec 4 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1479	2441656.49	1972 Dec 4 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1481	2441657.04	1972 Dec 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1482	2441657.19	1972 Dec 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1483	2441657.23	1972 Dec 5 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1484	2441657.29	1972 Dec 5 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1487	2441658.19	1972 Dec 6 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1488	2441658.21	1972 Dec 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1489	2441658.25	1972 Dec 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1490	2441658.32	1972 Dec 6 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1491	2441658.33	1972 Dec 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1492	2441658.49	1972 Dec 6 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1495	2441658.84	1972 Dec 7 0815:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1497	2441659.30	1972 Dec 7 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1498	2441659.55	1972 Dec 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1500	2441659.75	1972 Dec 8 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1501	2441660.08	1972 Dec 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1502	2441660.09	1972 Dec 8 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1503	2441660.12	1972 Dec 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1504	2441660.40	1972 Dec 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1509	2441663.08	1972 Dec 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1510	2441663.08	1972 Dec 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1511	2441663.10	1972 Dec 11 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1512	2441663.10	1972 Dec 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1513	2441663.22	1972 Dec 11 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1514	2441663.29	1972 Dec 11 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1515	2441663.29	1972 Dec 11 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1516	2441663.49	1972 Dec 11 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1518	2441664.25	1972 Dec 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1519	2441664.51	1972 Dec 13 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1520	2441665.08	1972 Dec 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1521	2441665.12	1972 Dec 13 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1523	2441665.27	1972 Dec 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1524	2441665.29	1972 Dec 13 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1525	2441665.31	1972 Dec 13 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1526	2441665.49	1972 Dec 13 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1528	2441666.29	1972 Dec 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1529	2441666.35	1972 Dec 14 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1531	2441667.17	1972 Dec 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1532	2441667.19	1972 Dec 15 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1533	2441667.25	1972 Dec 15 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1534	2441667.45	1972 Dec 15 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1535	2441667.49	1972 Dec 15 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1536	2441670.08	1972 Dec 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1537	2441670.10	1972 Dec 18 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1539	2441670.17	1972 Dec 18 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1540	2441670.23	1972 Dec 18 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1541	2441670.27	1972 Dec 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1542	2441670.44	1972 Dec 18 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1543	2441670.92	1972 Dec 19 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1544	2441671.14	1972 Dec 19 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1546	2441671.17	1972 Dec 19 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1547	2441671.29	1972 Dec 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1548	2441671.37	1972 Dec 19 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1549	2441671.58	1972 Dec 20 0157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1550	2441672.10	1972 Dec 20 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1551	2441672.12	1972 Dec 20 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y295	2441672.17	1972 Dec 20 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1553	2441672.19	1972 Dec 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1554	2441672.25	1972 Dec 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1555	2441672.31	1972 Dec 20 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1556	2441672.51	1972 Dec 21 0011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1558	2441673.21	1972 Dec 21 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-A119	2441673.38	1972 Dec 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1560	2441674.29	1972 Dec 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1561	2441674.33	1972 Dec 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1562	2441678.28	1972 Dec 26 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1563	2441678.38	1972 Dec 26 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1565	2441679.18	1972 Dec 27 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y302	2441679.27	1972 Dec 27 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1566	2441679.28	1972 Dec 27 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1567	2441679.29	1972 Dec 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-W1568	2441679.40	1972 Dec 27 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-Y303	2441679.43	1972 Dec 27 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1569	2441679.49	1972 Dec 27 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1571	2441681.10	1972 Dec 29 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1573	2441681.27	1972 Dec 29 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1574	2441681.29	1972 Dec 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1972-W1575	2441681.49	1972 Dec 29 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W949	2441891.14	1973 Jul 27 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W950	2441891.16	1973 Jul 27 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W951	2441891.29	1973 Jul 27 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W952	2441892.03	1973 Jul 28 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W953	2441894.10	1973 Jul 30 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A39	2441894.14	1973 Jul 30 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W954	2441894.19	1973 Jul 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W955	2441894.23	1973 Jul 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W956	2441894.25	1973 Jul 30 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W957	2441894.31	1973 Jul 30 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W958	2441894.41	1973 Jul 30 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W963	2441895.31	1973 Jul 31 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W964	2441895.52	1973 Aug 1 0035:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W965	2441896.07	1973 Aug 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W966	2441896.07	1973 Aug 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W967	2441896.08	1973 Aug 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W968	2441896.09	1973 Aug 1 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W969	2441896.10	1973 Aug 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W970	2441896.12	1973 Aug 1 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y318	2441896.17	1973 Aug 1 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y319	2441896.17	1973 Aug 1 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W972	2441896.19	1973 Aug 1 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y320	2441896.27	1973 Aug 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W973	2441897.05	1973 Aug 2 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W975	2441897.40	1973 Aug 2 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W976	2441897.83	1973 Aug 3 0752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W977	2441898.07	1973 Aug 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W978	2441898.08	1973 Aug 3 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W979	2441898.10	1973 Aug 3 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W980	2441898.33	1973 Aug 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y321	2441898.38	1973 Aug 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W981	2441898.40	1973 Aug 3 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W982	2441898.53	1973 Aug 4 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W983	2441901.07	1973 Aug 6 1342:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W984	2441901.14	1973 Aug 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W985	2441901.19	1973 Aug 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W986	2441901.21	1973 Aug 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W987	2441901.25	1973 Aug 6 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W988	2441901.26	1973 Aug 6 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W989	2441901.41	1973 Aug 6 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y322	2441901.53	1973 Aug 7 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W990	2441903.07	1973 Aug 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W991	2441903.08	1973 Aug 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y326	2441903.14	1973 Aug 8 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W993	2441903.16	1973 Aug 8 1556:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W994	2441903.19	1973 Aug 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y327	2441903.21	1973 Aug 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W995	2441903.21	1973 Aug 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W996	2441903.30	1973 Aug 8 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W997	2441903.36	1973 Aug 8 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y328	2441903.39	1973 Aug 8 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W998	2441903.42	1973 Aug 8 2157:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W999	2441903.54	1973 Aug 9 0053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1001	2441904.25	1973 Aug 9 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1002	2441904.31	1973 Aug 9 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1003	2441904.97	1973 Aug 10 1122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1004	2441905.07	1973 Aug 10 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1005	2441905.08	1973 Aug 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1006	2441905.14	1973 Aug 10 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1007	2441905.17	1973 Aug 10 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1008	2441905.21	1973 Aug 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1009	2441905.31	1973 Aug 10 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1010	2441905.53	1973 Aug 11 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1011	2441908.08	1973 Aug 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1012	2441908.14	1973 Aug 13 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1014	2441908.21	1973 Aug 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1015	2441908.21	1973 Aug 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1016	2441908.22	1973 Aug 13 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1017	2441908.25	1973 Aug 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1018	2441908.31	1973 Aug 13 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1019	2441908.41	1973 Aug 13 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y331	2441908.53	1973 Aug 14 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1020	2441909.25	1973 Aug 14 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1021	2441909.31	1973 Aug 14 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1022	2441909.73	1973 Aug 15 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1023	2441910.07	1973 Aug 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1024	2441910.07	1973 Aug 15 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1025	2441910.08	1973 Aug 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1026	2441910.11	1973 Aug 15 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1028	2441910.15	1973 Aug 15 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1029	2441910.19	1973 Aug 15 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y334	2441910.21	1973 Aug 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1030	2441910.29	1973 Aug 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y335	2441910.36	1973 Aug 15 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1031	2441910.38	1973 Aug 15 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1032	2441910.38	1973 Aug 15 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y336	2441910.41	1973 Aug 15 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1033	2441910.44	1973 Aug 15 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1034	2441910.50	1973 Aug 16 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A41	2441911.05	1973 Aug 16 1307:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1037	2441911.21	1973 Aug 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1038	2441911.25	1973 Aug 16 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1040	2441911.93	1973 Aug 17 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1041	2441912.08	1973 Aug 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1042	2441912.08	1973 Aug 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A42	2441912.12	1973 Aug 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1043	2441912.12	1973 Aug 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1044	2441912.17	1973 Aug 17 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1045	2441912.19	1973 Aug 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1046	2441914.92	1973 Aug 20 1009:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1047	2441915.08	1973 Aug 20 1348:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1049	2441915.15	1973 Aug 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1050	2441915.19	1973 Aug 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1051	2441915.21	1973 Aug 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1052	2441915.53	1973 Aug 21 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1053	2441915.92	1973 Aug 21 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1054	2441916.25	1973 Aug 21 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1055	2441916.94	1973 Aug 22 1040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1056	2441917.08	1973 Aug 22 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1058	2441917.12	1973 Aug 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1059	2441917.15	1973 Aug 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1060	2441917.21	1973 Aug 22 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1061	2441917.22	1973 Aug 22 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1062	2441917.25	1973 Aug 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1063	2441917.51	1973 Aug 23 0010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1064	2441917.60	1973 Aug 23 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1065	2441917.90	1973 Aug 23 0941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1066	2441918.04	1973 Aug 23 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1067	2441918.57	1973 Aug 24 0143:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1068	2441918.82	1973 Aug 24 0740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1069	2441918.92	1973 Aug 24 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1070	2441919.07	1973 Aug 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1071	2441919.08	1973 Aug 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1072	2441919.10	1973 Aug 24 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y345	2441919.17	1973 Aug 24 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1074	2441919.18	1973 Aug 24 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1075	2441919.34	1973 Aug 24 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1076	2441919.35	1973 Aug 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1077	2441919.53	1973 Aug 25 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1078	2441921.93	1973 Aug 27 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1079	2441922.07	1973 Aug 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1080	2441922.08	1973 Aug 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1082	2441922.15	1973 Aug 27 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1083	2441922.19	1973 Aug 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1084	2441922.53	1973 Aug 28 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1085	2441922.81	1973 Aug 28 0730:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1086	2441922.88	1973 Aug 28 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1087	2441923.10	1973 Aug 28 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1088	2441923.10	1973 Aug 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1089	2441923.14	1973 Aug 28 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1090	2441923.92	1973 Aug 29 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1091	2441923.93	1973 Aug 29 1013:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y352	2441923.96	1973 Aug 29 1056:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1092	2441924.07	1973 Aug 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1093	2441924.08	1973 Aug 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1094	2441924.08	1973 Aug 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1095	2441924.11	1973 Aug 29 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1096	2441924.11	1973 Aug 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1097	2441924.12	1973 Aug 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y355	2441924.17	1973 Aug 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1098	2441924.21	1973 Aug 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1100	2441924.29	1973 Aug 29 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1101	2441924.39	1973 Aug 29 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1102	2441924.50	1973 Aug 30 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1103	2441924.92	1973 Aug 30 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1104	2441925.03	1973 Aug 30 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1106	2441925.25	1973 Aug 30 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1107	2441925.25	1973 Aug 30 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1108	2441925.41	1973 Aug 30 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1112	2441925.91	1973 Aug 31 0949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1113	2441926.07	1973 Aug 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1114	2441926.08	1973 Aug 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A43	2441926.09	1973 Aug 31 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y361	2441926.18	1973 Aug 31 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1115	2441926.22	1973 Aug 31 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1116	2441926.33	1973 Aug 31 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y362	2441926.36	1973 Aug 31 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y363	2441926.38	1973 Aug 31 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1117	2441926.53	1973 Sep 1 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1118	2441930.13	1973 Sep 4 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1119	2441930.25	1973 Sep 4 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1121	2441930.31	1973 Sep 4 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1124	2441931.07	1973 Sep 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1125	2441931.08	1973 Sep 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A44	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1126	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1127	2441931.12	1973 Sep 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y373	2441931.23	1973 Sep 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1128	2441931.26	1973 Sep 5 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1129	2441931.29	1973 Sep 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1130	2441931.40	1973 Sep 5 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1131	2441931.50	1973 Sep 6 0001:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1132	2441932.38	1973 Sep 6 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1133	2441932.40	1973 Sep 6 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1134	2441933.07	1973 Sep 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1135	2441933.08	1973 Sep 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A45	2441933.16	1973 Sep 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1136	2441933.16	1973 Sep 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1137	2441933.23	1973 Sep 7 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1138	2441933.23	1973 Sep 7 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1139	2441933.24	1973 Sep 7 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1140	2441933.31	1973 Sep 7 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y374	2441933.53	1973 Sep 8 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1141	2441936.07	1973 Sep 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1142	2441936.08	1973 Sep 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1143	2441936.17	1973 Sep 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1144	2441936.20	1973 Sep 10 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1145	2441936.20	1973 Sep 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1146	2441936.29	1973 Sep 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1147	2441936.30	1973 Sep 10 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1148	2441936.51	1973 Sep 11 0015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1149	2441936.83	1973 Sep 11 0752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1151	2441937.31	1973 Sep 11 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1152	2441937.80	1973 Sep 12 0706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1153	2441938.07	1973 Sep 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A48	2441938.07	1973 Sep 12 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1154	2441938.08	1973 Sep 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1155	2441938.08	1973 Sep 12 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1156	2441938.12	1973 Sep 12 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1158	2441938.15	1973 Sep 12 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1159	2441938.16	1973 Sep 12 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1160	2441938.17	1973 Sep 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1161	2441938.21	1973 Sep 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1162	2441938.29	1973 Sep 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1163	2441938.50	1973 Sep 13 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1164	2441938.71	1973 Sep 13 0504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1166	2441939.26	1973 Sep 13 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1167	2441940.08	1973 Sep 14 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1168	2441940.08	1973 Sep 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1169	2441940.17	1973 Sep 14 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1170	2441940.21	1973 Sep 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1171	2441940.31	1973 Sep 14 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1172	2441940.52	1973 Sep 15 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1173	2441941.51	1973 Sep 16 0015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1174	2441941.56	1973 Sep 16 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1175	2441943.07	1973 Sep 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1176	2441943.08	1973 Sep 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A52	2441943.19	1973 Sep 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1177	2441943.19	1973 Sep 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1178	2441943.25	1973 Sep 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1179	2441943.27	1973 Sep 17 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1180	2441943.31	1973 Sep 17 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1181	2441943.31	1973 Sep 17 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1183	2441944.25	1973 Sep 18 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1184	2441944.52	1973 Sep 19 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1185	2441945.08	1973 Sep 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1186	2441945.10	1973 Sep 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1187	2441945.12	1973 Sep 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1189	2441945.17	1973 Sep 19 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1190	2441945.25	1973 Sep 19 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1191	2441945.26	1973 Sep 19 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1192	2441945.29	1973 Sep 19 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1193	2441945.29	1973 Sep 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1194	2441945.53	1973 Sep 20 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A55	2441945.70	1973 Sep 20 0449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A56	2441945.70	1973 Sep 20 0449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1196	2441946.19	1973 Sep 20 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1197	2441946.25	1973 Sep 20 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1198	2441947.07	1973 Sep 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1199	2441947.08	1973 Sep 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1200	2441947.08	1973 Sep 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1201	2441947.21	1973 Sep 21 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1202	2441947.22	1973 Sep 21 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1203	2441947.24	1973 Sep 21 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1204	2441947.31	1973 Sep 21 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1205	2441950.08	1973 Sep 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1206	2441950.09	1973 Sep 24 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1207	2441950.14	1973 Sep 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1208	2441950.15	1973 Sep 24 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1209	2441950.23	1973 Sep 24 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1210	2441950.25	1973 Sep 24 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1211	2441950.27	1973 Sep 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1212	2441950.31	1973 Sep 24 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1213	2441950.50	1973 Sep 25 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1214	2441950.85	1973 Sep 25 0822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1215	2441950.87	1973 Sep 25 0855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1216	2441950.93	1973 Sep 25 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1218	2441952.07	1973 Sep 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1219	2441952.08	1973 Sep 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1220	2441952.10	1973 Sep 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1222	2441952.15	1973 Sep 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1223	2441952.22	1973 Sep 26 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1224	2441952.24	1973 Sep 26 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1225	2441952.27	1973 Sep 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1226	2441952.56	1973 Sep 27 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1227	2441952.93	1973 Sep 27 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1229	2441953.19	1973 Sep 27 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y400	2441953.43	1973 Sep 27 2213:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1230	2441953.45	1973 Sep 27 2242:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A57	2441954.08	1973 Sep 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1231	2441954.08	1973 Sep 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1232	2441954.10	1973 Sep 28 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1233	2441954.17	1973 Sep 28 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1234	2441954.21	1973 Sep 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1235	2441954.29	1973 Sep 28 1855:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A58	2441954.31	1973 Sep 28 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1244	2441955.77	1973 Sep 30 0623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y403	2441955.96	1973 Sep 30 1055:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1245	2441957.07	1973 Oct 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1246	2441957.08	1973 Oct 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1247	2441957.09	1973 Oct 1 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1248	2441957.15	1973 Oct 1 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1249	2441957.51	1973 Oct 2 0017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1251	2441958.25	1973 Oct 2 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1252	2441958.25	1973 Oct 2 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1253	2441958.40	1973 Oct 2 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1254	2441959.09	1973 Oct 3 1406:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1255	2441959.10	1973 Oct 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1256	2441959.17	1973 Oct 3 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y408	2441959.19	1973 Oct 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1258	2441959.26	1973 Oct 3 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y409	2441959.29	1973 Oct 3 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1259	2441959.29	1973 Oct 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1260	2441959.48	1973 Oct 3 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y410	2441959.54	1973 Oct 4 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1261	2441959.56	1973 Oct 4 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1262	2441959.61	1973 Oct 4 0235:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1263	2441959.68	1973 Oct 4 0419:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1264	2441959.70	1973 Oct 4 0449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y411	2441960.27	1973 Oct 4 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y412	2441960.28	1973 Oct 4 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1266	2441960.40	1973 Oct 4 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1267	2441961.07	1973 Oct 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1268	2441961.08	1973 Oct 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1269	2441961.10	1973 Oct 5 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1270	2441961.15	1973 Oct 5 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y413	2441961.20	1973 Oct 5 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1271	2441961.21	1973 Oct 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y414	2441961.21	1973 Oct 5 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y415	2441961.23	1973 Oct 5 1727:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y416	2441961.24	1973 Oct 5 1748:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y417	2441961.38	1973 Oct 5 2111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1272	2441961.40	1973 Oct 5 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y418	2441961.41	1973 Oct 5 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1273	2441964.08	1973 Oct 8 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1274	2441964.15	1973 Oct 8 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1276	2441965.24	1973 Oct 9 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1277	2441965.25	1973 Oct 9 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1278	2441965.27	1973 Oct 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1279	2441965.29	1973 Oct 9 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1280	2441965.40	1973 Oct 9 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1281	2441966.00	1973 Oct 10 1203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1282	2441966.10	1973 Oct 10 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1283	2441966.10	1973 Oct 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y425	2441966.19	1973 Oct 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1285	2441966.27	1973 Oct 10 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1286	2441966.29	1973 Oct 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1287	2441966.55	1973 Oct 11 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1288	2441966.94	1973 Oct 11 1040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1289	2441967.32	1973 Oct 11 1945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1290	2441967.40	1973 Oct 11 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1291	2441968.07	1973 Oct 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1293	2441968.17	1973 Oct 12 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1294	2441968.21	1973 Oct 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1295	2441968.33	1973 Oct 12 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1296	2441971.08	1973 Oct 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1297	2441971.14	1973 Oct 15 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1298	2441971.15	1973 Oct 15 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y427	2441971.21	1973 Oct 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1299	2441971.23	1973 Oct 15 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1300	2441971.24	1973 Oct 15 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1301	2441971.25	1973 Oct 15 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1302	2441971.27	1973 Oct 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1303	2441971.28	1973 Oct 15 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1304	2441971.31	1973 Oct 15 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y428	2441971.51	1973 Oct 16 0013:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y430	2441972.21	1973 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1306	2441972.25	1973 Oct 16 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1307	2441972.40	1973 Oct 16 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1308	2441973.07	1973 Oct 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1309	2441973.10	1973 Oct 17 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1310	2441973.10	1973 Oct 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1311	2441973.10	1973 Oct 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1313	2441973.15	1973 Oct 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y435	2441973.21	1973 Oct 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1314	2441973.25	1973 Oct 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1315	2441973.27	1973 Oct 17 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1316	2441973.30	1973 Oct 17 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1317	2441973.33	1973 Oct 17 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y436	2441973.38	1973 Oct 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1318	2441973.40	1973 Oct 17 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1319	2441973.53	1973 Oct 18 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y438	2441974.06	1973 Oct 18 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1320	2441974.85	1973 Oct 19 0818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1321	2441975.08	1973 Oct 19 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1322	2441975.08	1973 Oct 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1323	2441975.09	1973 Oct 19 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1325	2441975.20	1973 Oct 19 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y439	2441975.21	1973 Oct 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1326	2441975.25	1973 Oct 19 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1327	2441975.27	1973 Oct 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1328	2441975.53	1973 Oct 20 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1329	2441979.21	1973 Oct 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1330	2441979.27	1973 Oct 23 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1331	2441979.32	1973 Oct 23 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1332	2441979.40	1973 Oct 23 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1333	2441979.85	1973 Oct 24 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1334	2441979.94	1973 Oct 24 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1335	2441980.01	1973 Oct 24 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1336	2441980.07	1973 Oct 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1337	2441980.08	1973 Oct 24 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1338	2441980.11	1973 Oct 24 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y442	2441980.11	1973 Oct 24 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1340	2441980.15	1973 Oct 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y444	2441980.17	1973 Oct 24 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y445	2441980.19	1973 Oct 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1341	2441980.51	1973 Oct 25 0019:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1342	2441981.20	1973 Oct 25 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y446	2441981.38	1973 Oct 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1343	2441981.39	1973 Oct 25 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1344	2441982.07	1973 Oct 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1345	2441982.10	1973 Oct 26 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1347	2441982.21	1973 Oct 26 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1348	2441982.25	1973 Oct 26 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1349	2441982.25	1973 Oct 26 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1350	2441982.30	1973 Oct 26 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1351	2441982.53	1973 Oct 27 0047:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1352	2441985.14	1973 Oct 29 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1353	2441985.19	1973 Oct 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1354	2441985.29	1973 Oct 29 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1355	2441985.31	1973 Oct 29 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y447	2441985.53	1973 Oct 30 0047:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1356	2441985.93	1973 Oct 30 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1358	2441986.40	1973 Oct 30 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1367	2441987.08	1973 Oct 31 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1368	2441987.11	1973 Oct 31 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1369	2441987.11	1973 Oct 31 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1371	2441987.26	1973 Oct 31 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1372	2441987.31	1973 Oct 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1373	2441987.33	1973 Oct 31 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1374	2441987.33	1973 Oct 31 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y453	2441987.53	1973 Nov 1 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1375	2441988.26	1973 Nov 1 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y455	2441988.50	1973 Nov 2 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1376	2441988.87	1973 Nov 2 0848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1377	2441989.08	1973 Nov 2 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1378	2441989.10	1973 Nov 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1380	2441989.19	1973 Nov 2 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1381	2441989.22	1973 Nov 2 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1382	2441989.27	1973 Nov 2 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1383	2441989.32	1973 Nov 2 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1384	2441992.08	1973 Nov 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1385	2441992.11	1973 Nov 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1386	2441992.19	1973 Nov 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1387	2441992.20	1973 Nov 5 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1388	2441992.25	1973 Nov 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1389	2441992.32	1973 Nov 5 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1390	2441994.08	1973 Nov 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1391	2441994.11	1973 Nov 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1392	2441994.15	1973 Nov 7 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y461	2441994.23	1973 Nov 7 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1394	2441994.25	1973 Nov 7 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1395	2441994.28	1973 Nov 7 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1396	2441994.32	1973 Nov 7 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1397	2441994.53	1973 Nov 8 0048:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1398	2441994.95	1973 Nov 8 1041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A66	2441995.14	1973 Nov 8 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1399	2441995.17	1973 Nov 8 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y462	2441995.50	1973 Nov 9 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1400	2441996.08	1973 Nov 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1401	2441996.11	1973 Nov 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1402	2441996.12	1973 Nov 9 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1404	2441996.25	1973 Nov 9 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1405	2441996.28	1973 Nov 9 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y463	2441996.33	1973 Nov 9 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1406	2441996.33	1973 Nov 9 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y464	2441996.38	1973 Nov 9 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1407	2441996.40	1973 Nov 9 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1408	2441999.13	1973 Nov 12 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1409	2441999.19	1973 Nov 12 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1410	2441999.28	1973 Nov 12 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1411	2441999.29	1973 Nov 12 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1412	2441999.34	1973 Nov 12 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1413	2441999.38	1973 Nov 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1414	2441999.90	1973 Nov 13 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1415	2441999.99	1973 Nov 13 1145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1417	2442000.31	1973 Nov 13 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1418	2442000.31	1973 Nov 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1419	2442001.08	1973 Nov 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1420	2442001.08	1973 Nov 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1421	2442001.11	1973 Nov 14 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1422	2442001.14	1973 Nov 14 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1424	2442001.26	1973 Nov 14 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1425	2442001.29	1973 Nov 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1426	2442001.33	1973 Nov 14 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1427	2442001.40	1973 Nov 14 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y470	2442001.53	1973 Nov 15 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1428	2442002.04	1973 Nov 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A69	2442002.23	1973 Nov 15 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1430	2442002.50	1973 Nov 16 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1431	2442003.08	1973 Nov 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1432	2442003.08	1973 Nov 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1433	2442003.10	1973 Nov 16 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1434	2442003.18	1973 Nov 16 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1436	2442003.20	1973 Nov 16 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1437	2442003.25	1973 Nov 16 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1438	2442003.40	1973 Nov 16 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1439	2442003.44	1973 Nov 16 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1440	2442006.08	1973 Nov 19 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1441	2442006.11	1973 Nov 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1442	2442006.25	1973 Nov 19 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1443	2442006.25	1973 Nov 19 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1444	2442006.31	1973 Nov 19 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1445	2442006.32	1973 Nov 19 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1447	2442006.50	1973 Nov 20 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1448	2442007.31	1973 Nov 20 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1449	2442007.32	1973 Nov 20 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1451	2442007.85	1973 Nov 21 0825:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1452	2442008.08	1973 Nov 21 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1453	2442008.11	1973 Nov 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1454	2442008.19	1973 Nov 21 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y477	2442008.23	1973 Nov 21 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1455	2442008.23	1973 Nov 21 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1456	2442008.25	1973 Nov 21 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1457	2442008.33	1973 Nov 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1458	2442008.44	1973 Nov 21 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y478	2442008.53	1973 Nov 22 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1461	2442013.08	1973 Nov 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1462	2442013.08	1973 Nov 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1463	2442013.11	1973 Nov 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1464	2442013.19	1973 Nov 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1466	2442013.26	1973 Nov 26 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1467	2442013.30	1973 Nov 26 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A70	2442013.32	1973 Nov 26 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1468	2442013.93	1973 Nov 27 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1469	2442014.03	1973 Nov 27 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A71	2442014.08	1973 Nov 27 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1470	2442014.50	1973 Nov 28 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1471	2442015.11	1973 Nov 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1472	2442015.15	1973 Nov 28 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1474	2442015.20	1973 Nov 28 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1475	2442015.32	1973 Nov 28 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1476	2442015.40	1973 Nov 28 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1477	2442015.41	1973 Nov 28 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1478	2442015.42	1973 Nov 28 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1479	2442015.53	1973 Nov 29 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1481	2442016.42	1973 Nov 29 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1486	2442017.11	1973 Nov 30 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1487	2442017.11	1973 Nov 30 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1488	2442017.13	1973 Nov 30 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1490	2442017.19	1973 Nov 30 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y487	2442017.21	1973 Nov 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1491	2442017.32	1973 Nov 30 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1492	2442017.34	1973 Nov 30 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1493	2442017.40	1973 Nov 30 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1494	2442020.11	1973 Dec 3 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1496	2442020.21	1973 Dec 3 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1497	2442020.21	1973 Dec 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1498	2442020.25	1973 Dec 3 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1499	2442020.35	1973 Dec 3 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A73	2442021.20	1973 Dec 4 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1502	2442021.28	1973 Dec 4 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1503	2442022.11	1973 Dec 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1505	2442022.19	1973 Dec 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1506	2442022.23	1973 Dec 5 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1507	2442022.25	1973 Dec 5 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1508	2442022.26	1973 Dec 5 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1509	2442022.32	1973 Dec 5 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1510	2442022.53	1973 Dec 6 0046:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1511	2442022.90	1973 Dec 6 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1513	2442023.20	1973 Dec 6 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1514	2442023.26	1973 Dec 6 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1515	2442023.28	1973 Dec 6 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1516	2442023.70	1973 Dec 7 0449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1517	2442024.01	1973 Dec 7 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1518	2442024.08	1973 Dec 7 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1519	2442024.14	1973 Dec 7 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1520	2442024.18	1973 Dec 7 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1522	2442024.19	1973 Dec 7 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1523	2442024.31	1973 Dec 7 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1524	2442024.31	1973 Dec 7 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A75	2442024.32	1973 Dec 7 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1525	2442024.40	1973 Dec 7 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1526	2442027.01	1973 Dec 10 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1527	2442027.08	1973 Dec 10 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1528	2442027.12	1973 Dec 10 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1530	2442027.21	1973 Dec 10 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1531	2442027.23	1973 Dec 10 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1532	2442027.25	1973 Dec 10 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1533	2442027.32	1973 Dec 10 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1534	2442027.33	1973 Dec 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1535	2442028.13	1973 Dec 11 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1536	2442028.23	1973 Dec 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1538	2442028.31	1973 Dec 11 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1539	2442028.63	1973 Dec 12 0310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1540	2442029.01	1973 Dec 12 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1541	2442029.15	1973 Dec 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1543	2442029.22	1973 Dec 12 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1544	2442029.25	1973 Dec 12 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1545	2442029.25	1973 Dec 12 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A76	2442029.26	1973 Dec 12 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y501	2442029.32	1973 Dec 12 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1546	2442029.34	1973 Dec 12 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1547	2442029.36	1973 Dec 12 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1548	2442029.40	1973 Dec 12 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y502	2442029.44	1973 Dec 12 2233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1549	2442029.53	1973 Dec 13 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1551	2442030.29	1973 Dec 13 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1552	2442030.31	1973 Dec 13 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1553	2442031.08	1973 Dec 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1554	2442031.12	1973 Dec 14 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1555	2442031.18	1973 Dec 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1557	2442031.25	1973 Dec 14 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A77	2442031.27	1973 Dec 14 1835:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1558	2442031.32	1973 Dec 14 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-Y503	2442031.62	1973 Dec 15 0248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1559	2442034.08	1973 Dec 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1560	2442034.09	1973 Dec 17 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1561	2442034.12	1973 Dec 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1563	2442034.22	1973 Dec 17 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1564	2442034.25	1973 Dec 17 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1565	2442034.25	1973 Dec 17 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1566	2442034.32	1973 Dec 17 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1568	2442035.31	1973 Dec 18 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1569	2442035.34	1973 Dec 18 2007:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1570	2442035.82	1973 Dec 19 0737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1571	2442036.12	1973 Dec 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-A79	2442036.13	1973 Dec 19 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1573	2442036.25	1973 Dec 19 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1574	2442036.32	1973 Dec 19 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y511	2442036.38	1973 Dec 19 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1575	2442036.40	1973 Dec 19 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1576	2442036.53	1973 Dec 20 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1578	2442037.21	1973 Dec 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1579	2442037.29	1973 Dec 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1580	2442037.93	1973 Dec 21 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1582	2442038.19	1973 Dec 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1583	2442038.28	1973 Dec 21 1841:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1584	2442038.29	1973 Dec 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1585	2442038.32	1973 Dec 21 1934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1586	2442038.71	1973 Dec 22 0455:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1587	2442040.98	1973 Dec 24 1135:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1588	2442041.02	1973 Dec 24 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1589	2442041.07	1973 Dec 24 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1590	2442041.11	1973 Dec 24 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1591	2442041.15	1973 Dec 24 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1592	2442043.12	1973 Dec 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1593	2442043.40	1973 Dec 26 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y519	2442043.53	1973 Dec 27 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1595	2442044.20	1973 Dec 27 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-Y520	2442044.27	1973 Dec 27 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1598	2442045.19	1973 Dec 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1599	2442045.33	1973 Dec 28 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1600	2442045.40	1973 Dec 28 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W08	2442050.12	1974 Jan 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1086	2442283.35	1974 Aug 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1087	2442283.36	1974 Aug 23 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1088	2442285.89	1974 Aug 26 0915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1089	2442286.07	1974 Aug 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1090	2442286.08	1974 Aug 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1092	2442286.29	1974 Aug 26 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1093	2442286.42	1974 Aug 26 2158:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1094	2442287.37	1974 Aug 27 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1095	2442287.88	1974 Aug 28 0901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A33	2442288.16	1974 Aug 28 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1096	2442288.17	1974 Aug 28 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y274	2442288.20	1974 Aug 28 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1097	2442288.20	1974 Aug 28 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1098	2442288.20	1974 Aug 28 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1100	2442288.22	1974 Aug 28 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y275	2442288.25	1974 Aug 28 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1101	2442288.26	1974 Aug 28 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1102	2442288.29	1974 Aug 28 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A34	2442288.39	1974 Aug 28 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1103	2442288.55	1974 Aug 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1104	2442288.88	1974 Aug 29 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1105	2442289.10	1974 Aug 29 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1106	2442289.14	1974 Aug 29 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1107	2442289.35	1974 Aug 29 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1108	2442290.07	1974 Aug 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1109	2442290.08	1974 Aug 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1110	2442290.13	1974 Aug 30 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1111	2442290.14	1974 Aug 30 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1112	2442290.17	1974 Aug 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1118	2442293.19	1974 Sep 2 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1121	2442294.11	1974 Sep 3 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1122	2442294.23	1974 Sep 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1123	2442294.33	1974 Sep 3 1952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1124	2442295.07	1974 Sep 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1125	2442295.07	1974 Sep 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y282	2442295.19	1974 Sep 4 1638:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1127	2442295.21	1974 Sep 4 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1128	2442295.22	1974 Sep 4 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1129	2442295.23	1974 Sep 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1130	2442295.24	1974 Sep 4 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1131	2442295.33	1974 Sep 4 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y283	2442295.38	1974 Sep 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1132	2442295.39	1974 Sep 4 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1133	2442295.56	1974 Sep 5 0129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1134	2442296.10	1974 Sep 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1135	2442296.21	1974 Sep 5 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1136	2442296.33	1974 Sep 5 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1137	2442296.56	1974 Sep 6 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y285	2442296.72	1974 Sep 6 0522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1138	2442296.91	1974 Sep 6 0952:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1139	2442297.11	1974 Sep 6 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1141	2442297.12	1974 Sep 6 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1142	2442297.14	1974 Sep 6 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1143	2442297.15	1974 Sep 6 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1144	2442297.15	1974 Sep 6 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1145	2442297.38	1974 Sep 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1146	2442297.71	1974 Sep 7 0501:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1147	2442298.71	1974 Sep 8 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1149	2442300.15	1974 Sep 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1150	2442300.27	1974 Sep 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1151	2442300.42	1974 Sep 9 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1152	2442300.90	1974 Sep 10 0942:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1153	2442301.06	1974 Sep 10 1323:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1154	2442301.23	1974 Sep 10 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1156	2442301.33	1974 Sep 10 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y288	2442301.95	1974 Sep 11 1044:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1157	2442302.08	1974 Sep 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1158	2442302.10	1974 Sep 11 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1160	2442302.15	1974 Sep 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1161	2442302.15	1974 Sep 11 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1162	2442302.15	1974 Sep 11 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1163	2442302.19	1974 Sep 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1164	2442302.21	1974 Sep 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1165	2442302.33	1974 Sep 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y290	2442302.35	1974 Sep 11 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1166	2442302.38	1974 Sep 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1167	2442302.94	1974 Sep 12 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1168	2442303.25	1974 Sep 12 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1169	2442303.33	1974 Sep 12 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1170	2442303.40	1974 Sep 12 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1171	2442304.08	1974 Sep 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1172	2442304.09	1974 Sep 13 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1173	2442304.10	1974 Sep 13 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1175	2442304.21	1974 Sep 13 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1176	2442304.21	1974 Sep 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1177	2442304.97	1974 Sep 14 1111:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1178	2442306.89	1974 Sep 16 0927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1179	2442307.05	1974 Sep 16 1309:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1180	2442307.07	1974 Sep 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1182	2442307.14	1974 Sep 16 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1183	2442307.20	1974 Sep 16 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1184	2442307.20	1974 Sep 16 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1185	2442307.20	1974 Sep 16 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1186	2442307.21	1974 Sep 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1187	2442307.31	1974 Sep 16 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1188	2442307.36	1974 Sep 16 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1189	2442308.14	1974 Sep 17 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1190	2442308.35	1974 Sep 17 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1191	2442309.07	1974 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1192	2442309.07	1974 Sep 18 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1193	2442309.08	1974 Sep 18 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1194	2442309.13	1974 Sep 18 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1196	2442309.13	1974 Sep 18 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1197	2442309.15	1974 Sep 18 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y296	2442309.19	1974 Sep 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1198	2442309.21	1974 Sep 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1199	2442309.35	1974 Sep 18 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1200	2442309.36	1974 Sep 18 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1201	2442309.57	1974 Sep 19 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1202	2442310.02	1974 Sep 19 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1203	2442310.09	1974 Sep 19 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1204	2442310.18	1974 Sep 19 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1205	2442310.26	1974 Sep 19 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1206	2442310.26	1974 Sep 19 1812:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1207	2442310.32	1974 Sep 19 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1208	2442311.15	1974 Sep 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1210	2442311.35	1974 Sep 20 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1211	2442311.35	1974 Sep 20 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1212	2442311.57	1974 Sep 21 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1213	2442314.09	1974 Sep 23 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1215	2442314.12	1974 Sep 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1216	2442314.20	1974 Sep 23 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1217	2442314.25	1974 Sep 23 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1218	2442314.36	1974 Sep 23 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1219	2442315.02	1974 Sep 24 1222:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1220	2442315.11	1974 Sep 24 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1221	2442315.21	1974 Sep 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1222	2442315.25	1974 Sep 24 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1223	2442315.53	1974 Sep 25 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1224	2442316.06	1974 Sep 25 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1225	2442316.07	1974 Sep 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1226	2442316.12	1974 Sep 25 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1227	2442316.12	1974 Sep 25 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A37	2442316.15	1974 Sep 25 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y312	2442316.19	1974 Sep 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1229	2442316.27	1974 Sep 25 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1230	2442316.27	1974 Sep 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1231	2442316.53	1974 Sep 26 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1232	2442317.14	1974 Sep 26 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1233	2442317.22	1974 Sep 26 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1234	2442317.26	1974 Sep 26 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1235	2442317.54	1974 Sep 27 0055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1236	2442318.11	1974 Sep 27 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1238	2442318.15	1974 Sep 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1239	2442318.18	1974 Sep 27 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1240	2442318.98	1974 Sep 28 1137:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1250	2442321.10	1974 Sep 30 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1251	2442321.15	1974 Sep 30 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1252	2442321.17	1974 Sep 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1254	2442321.20	1974 Sep 30 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1255	2442321.20	1974 Sep 30 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1256	2442321.24	1974 Sep 30 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A39	2442321.36	1974 Sep 30 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1257	2442321.38	1974 Sep 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1258	2442322.09	1974 Oct 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1259	2442322.90	1974 Oct 2 0934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1260	2442323.06	1974 Oct 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1261	2442323.07	1974 Oct 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1263	2442323.14	1974 Oct 2 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1264	2442323.18	1974 Oct 2 1621:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y318	2442323.19	1974 Oct 2 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1265	2442323.24	1974 Oct 2 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1266	2442323.33	1974 Oct 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1267	2442323.33	1974 Oct 2 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1268	2442323.36	1974 Oct 2 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y319	2442323.38	1974 Oct 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1269	2442323.39	1974 Oct 2 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1270	2442323.51	1974 Oct 3 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y320	2442323.88	1974 Oct 3 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1271	2442324.13	1974 Oct 3 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1272	2442324.23	1974 Oct 3 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1273	2442324.34	1974 Oct 3 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1274	2442325.07	1974 Oct 4 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1275	2442325.11	1974 Oct 4 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1277	2442325.11	1974 Oct 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1278	2442325.14	1974 Oct 4 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1279	2442325.38	1974 Oct 4 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y321	2442325.63	1974 Oct 5 0310:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1280	2442327.90	1974 Oct 7 0937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1281	2442328.12	1974 Oct 7 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1282	2442328.14	1974 Oct 7 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1283	2442328.17	1974 Oct 7 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y322	2442328.19	1974 Oct 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1284	2442328.23	1974 Oct 7 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1285	2442328.48	1974 Oct 7 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1286	2442329.15	1974 Oct 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1287	2442329.22	1974 Oct 8 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1289	2442329.33	1974 Oct 8 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A43	2442330.07	1974 Oct 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1292	2442330.15	1974 Oct 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1293	2442330.15	1974 Oct 9 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1294	2442330.34	1974 Oct 9 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1295	2442330.35	1974 Oct 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1296	2442330.35	1974 Oct 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1297	2442330.38	1974 Oct 9 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1298	2442330.41	1974 Oct 9 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1299	2442330.57	1974 Oct 10 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1300	2442330.89	1974 Oct 10 0917:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1301	2442331.26	1974 Oct 10 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y328	2442331.38	1974 Oct 10 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1302	2442331.39	1974 Oct 10 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1303	2442332.09	1974 Oct 11 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1304	2442332.09	1974 Oct 11 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1305	2442332.15	1974 Oct 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1306	2442332.17	1974 Oct 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1307	2442332.28	1974 Oct 11 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1308	2442332.33	1974 Oct 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1309	2442332.56	1974 Oct 12 0130:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1310	2442334.53	1974 Oct 14 0044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1311	2442334.71	1974 Oct 14 0455:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1312	2442335.89	1974 Oct 15 0921:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1313	2442336.05	1974 Oct 15 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1314	2442336.18	1974 Oct 15 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1315	2442336.21	1974 Oct 15 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1316	2442336.24	1974 Oct 15 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1317	2442336.36	1974 Oct 15 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1318	2442337.07	1974 Oct 16 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1319	2442337.11	1974 Oct 16 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1320	2442337.12	1974 Oct 16 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1322	2442337.15	1974 Oct 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y331	2442337.15	1974 Oct 16 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y332	2442337.19	1974 Oct 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1323	2442337.21	1974 Oct 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1324	2442337.35	1974 Oct 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y333	2442337.38	1974 Oct 16 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1325	2442337.40	1974 Oct 16 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1326	2442337.55	1974 Oct 17 0117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1327	2442338.05	1974 Oct 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1328	2442338.16	1974 Oct 17 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A46	2442339.07	1974 Oct 18 1343:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1329	2442339.08	1974 Oct 18 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1330	2442339.11	1974 Oct 18 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1331	2442339.12	1974 Oct 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1332	2442339.15	1974 Oct 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1333	2442339.21	1974 Oct 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1335	2442339.25	1974 Oct 18 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1336	2442339.33	1974 Oct 18 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1337	2442339.39	1974 Oct 18 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1338	2442342.11	1974 Oct 21 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1339	2442342.12	1974 Oct 21 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1340	2442342.15	1974 Oct 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1341	2442342.17	1974 Oct 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1343	2442342.24	1974 Oct 21 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1344	2442342.25	1974 Oct 21 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1345	2442342.33	1974 Oct 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1346	2442343.09	1974 Oct 22 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1347	2442344.03	1974 Oct 23 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1348	2442344.06	1974 Oct 23 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1349	2442344.07	1974 Oct 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1350	2442344.08	1974 Oct 23 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1351	2442344.15	1974 Oct 23 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1352	2442344.16	1974 Oct 23 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1353	2442344.23	1974 Oct 23 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1354	2442344.29	1974 Oct 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1355	2442344.34	1974 Oct 23 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y338	2442344.38	1974 Oct 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1356	2442344.39	1974 Oct 23 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1357	2442345.08	1974 Oct 24 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1358	2442345.35	1974 Oct 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1359	2442345.89	1974 Oct 25 0927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1360	2442346.07	1974 Oct 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1361	2442346.08	1974 Oct 25 1352:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1362	2442346.20	1974 Oct 25 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1363	2442346.21	1974 Oct 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A48	2442346.34	1974 Oct 25 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1365	2442349.19	1974 Oct 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1366	2442350.27	1974 Oct 29 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1367	2442350.34	1974 Oct 29 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1368	2442350.35	1974 Oct 29 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A49	2442350.36	1974 Oct 29 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1369	2442350.38	1974 Oct 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1370	2442350.90	1974 Oct 30 0932:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1371	2442351.07	1974 Oct 30 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1372	2442351.10	1974 Oct 30 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1373	2442351.13	1974 Oct 30 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1375	2442351.21	1974 Oct 30 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y343	2442351.23	1974 Oct 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1376	2442351.29	1974 Oct 30 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1377	2442351.38	1974 Oct 30 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1383	2442352.09	1974 Oct 31 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1384	2442352.13	1974 Oct 31 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1385	2442352.21	1974 Oct 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1386	2442353.06	1974 Nov 1 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1388	2442353.19	1974 Nov 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1389	2442353.36	1974 Nov 1 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1390	2442353.42	1974 Nov 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1391	2442355.50	1974 Nov 4 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1392	2442356.09	1974 Nov 4 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1394	2442356.27	1974 Nov 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1395	2442356.27	1974 Nov 4 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1396	2442357.14	1974 Nov 5 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1397	2442357.17	1974 Nov 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1399	2442357.33	1974 Nov 5 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1400	2442358.06	1974 Nov 6 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1401	2442358.08	1974 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1402	2442358.10	1974 Nov 6 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1403	2442358.14	1974 Nov 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1405	2442358.25	1974 Nov 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1406	2442358.27	1974 Nov 6 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1407	2442358.38	1974 Nov 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1408	2442358.88	1974 Nov 7 0913:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1409	2442359.04	1974 Nov 7 1258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1411	2442359.19	1974 Nov 7 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1412	2442360.10	1974 Nov 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1413	2442360.13	1974 Nov 8 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1414	2442360.17	1974 Nov 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1415	2442360.21	1974 Nov 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1417	2442360.35	1974 Nov 8 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1418	2442363.09	1974 Nov 11 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1420	2442363.17	1974 Nov 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1421	2442363.25	1974 Nov 11 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A52	2442363.27	1974 Nov 11 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1422	2442363.38	1974 Nov 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1423	2442364.04	1974 Nov 12 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1425	2442365.06	1974 Nov 13 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1426	2442365.09	1974 Nov 13 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1427	2442365.12	1974 Nov 13 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1429	2442365.17	1974 Nov 13 1611:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1430	2442365.19	1974 Nov 13 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1431	2442365.21	1974 Nov 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y352	2442365.25	1974 Nov 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1432	2442365.25	1974 Nov 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1433	2442365.38	1974 Nov 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1435	2442366.21	1974 Nov 14 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1436	2442366.29	1974 Nov 14 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1437	2442367.03	1974 Nov 15 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1438	2442367.08	1974 Nov 15 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1439	2442367.15	1974 Nov 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1441	2442367.19	1974 Nov 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1442	2442367.22	1974 Nov 15 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1443	2442367.24	1974 Nov 15 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1444	2442367.33	1974 Nov 15 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1445	2442370.09	1974 Nov 18 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1447	2442370.18	1974 Nov 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1448	2442370.19	1974 Nov 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1449	2442370.19	1974 Nov 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1450	2442370.38	1974 Nov 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1451	2442370.39	1974 Nov 18 2115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1453	2442371.27	1974 Nov 19 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1454	2442372.16	1974 Nov 20 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1456	2442372.21	1974 Nov 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1457	2442372.21	1974 Nov 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1458	2442372.23	1974 Nov 20 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1459	2442372.25	1974 Nov 20 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1460	2442372.25	1974 Nov 20 1803:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A55	2442373.17	1974 Nov 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1462	2442373.36	1974 Nov 21 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1463	2442374.13	1974 Nov 22 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1465	2442374.17	1974 Nov 22 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1466	2442374.24	1974 Nov 22 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1467	2442374.38	1974 Nov 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y356	2442374.38	1974 Nov 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1468	2442374.39	1974 Nov 22 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1469	2442377.05	1974 Nov 25 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1470	2442377.11	1974 Nov 25 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1471	2442377.14	1974 Nov 25 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1472	2442377.17	1974 Nov 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1474	2442377.19	1974 Nov 25 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1475	2442377.34	1974 Nov 25 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1476	2442377.38	1974 Nov 25 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1477	2442377.55	1974 Nov 26 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1479	2442378.36	1974 Nov 26 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1480	2442378.52	1974 Nov 27 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1481	2442379.10	1974 Nov 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1482	2442379.12	1974 Nov 27 1458:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1483	2442379.15	1974 Nov 27 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1485	2442379.20	1974 Nov 27 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y360	2442379.23	1974 Nov 27 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1486	2442379.27	1974 Nov 27 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1487	2442379.28	1974 Nov 27 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y362	2442379.41	1974 Nov 27 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1488	2442379.42	1974 Nov 27 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1489	2442379.55	1974 Nov 28 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1492	2442381.19	1974 Nov 29 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1499	2442384.10	1974 Dec 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1501	2442384.21	1974 Dec 2 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1502	2442384.21	1974 Dec 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1503	2442384.23	1974 Dec 2 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1504	2442384.27	1974 Dec 2 1826:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1505	2442384.39	1974 Dec 2 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1507	2442385.21	1974 Dec 3 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-A56	2442385.33	1974 Dec 3 1958:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1508	2442385.38	1974 Dec 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1509	2442385.56	1974 Dec 4 0119:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1510	2442386.08	1974 Dec 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1511	2442386.10	1974 Dec 4 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1512	2442386.12	1974 Dec 4 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1513	2442386.19	1974 Dec 4 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1514	2442386.21	1974 Dec 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y369	2442386.23	1974 Dec 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1515	2442386.35	1974 Dec 4 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y370	2442386.36	1974 Dec 4 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1516	2442386.38	1974 Dec 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1517	2442386.56	1974 Dec 5 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1519	2442387.21	1974 Dec 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1520	2442387.21	1974 Dec 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1521	2442387.38	1974 Dec 5 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1522	2442388.05	1974 Dec 6 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1523	2442388.14	1974 Dec 6 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1524	2442388.14	1974 Dec 6 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1525	2442388.19	1974 Dec 6 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1526	2442388.19	1974 Dec 6 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1527	2442388.20	1974 Dec 6 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1529	2442388.38	1974 Dec 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1530	2442388.42	1974 Dec 6 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1531	2442390.38	1974 Dec 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1532	2442391.19	1974 Dec 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1533	2442391.21	1974 Dec 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1534	2442391.27	1974 Dec 9 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1535	2442391.27	1974 Dec 9 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1536	2442391.35	1974 Dec 9 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1538	2442391.89	1974 Dec 10 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1539	2442392.17	1974 Dec 10 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1540	2442392.21	1974 Dec 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1541	2442392.25	1974 Dec 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1542	2442392.38	1974 Dec 10 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1543	2442392.43	1974 Dec 10 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1544	2442393.08	1974 Dec 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1545	2442393.10	1974 Dec 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1546	2442393.17	1974 Dec 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1547	2442393.17	1974 Dec 11 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1548	2442393.23	1974 Dec 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1549	2442393.38	1974 Dec 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y374	2442393.38	1974 Dec 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1550	2442393.39	1974 Dec 11 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1551	2442393.57	1974 Dec 12 0146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1552	2442393.90	1974 Dec 12 0940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1553	2442394.10	1974 Dec 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1554	2442394.16	1974 Dec 12 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1555	2442394.25	1974 Dec 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1556	2442394.42	1974 Dec 12 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1557	2442394.42	1974 Dec 12 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1559	2442394.71	1974 Dec 13 0501:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1560	2442395.14	1974 Dec 13 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1562	2442395.34	1974 Dec 13 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1563	2442395.38	1974 Dec 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1564	2442395.38	1974 Dec 13 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1565	2442395.45	1974 Dec 13 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1566	2442395.47	1974 Dec 13 2320:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1567	2442395.50	1974 Dec 13 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1569	2442398.23	1974 Dec 16 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1570	2442398.27	1974 Dec 16 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1571	2442398.35	1974 Dec 16 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1572	2442398.36	1974 Dec 16 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1573	2442398.38	1974 Dec 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1574	2442398.38	1974 Dec 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1575	2442398.90	1974 Dec 17 0943:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1576	2442399.10	1974 Dec 17 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1578	2442399.21	1974 Dec 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1579	2442399.38	1974 Dec 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1580	2442399.48	1974 Dec 17 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1581	2442400.01	1974 Dec 18 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1582	2442400.09	1974 Dec 18 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1584	2442400.21	1974 Dec 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1585	2442400.22	1974 Dec 18 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1586	2442400.33	1974 Dec 18 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1587	2442400.38	1974 Dec 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1588	2442400.56	1974 Dec 19 0122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1589	2442400.95	1974 Dec 19 1052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1591	2442401.21	1974 Dec 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1592	2442401.38	1974 Dec 19 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1593	2442402.10	1974 Dec 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1594	2442402.17	1974 Dec 20 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1596	2442402.21	1974 Dec 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y379	2442402.23	1974 Dec 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1597	2442402.25	1974 Dec 20 1759:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1598	2442402.38	1974 Dec 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1599	2442402.38	1974 Dec 20 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1600	2442402.55	1974 Dec 21 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1601	2442405.11	1974 Dec 23 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1602	2442405.12	1974 Dec 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1604	2442405.21	1974 Dec 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1605	2442405.25	1974 Dec 23 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1606	2442405.38	1974 Dec 23 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1607	2442405.55	1974 Dec 24 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1608	2442406.08	1974 Dec 24 1357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W1610	2442406.35	1974 Dec 24 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1611	2442408.38	1974 Dec 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1612	2442409.12	1974 Dec 27 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1613	2442409.36	1974 Dec 27 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-Y385	2442409.37	1974 Dec 27 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1614	2442409.38	1974 Dec 27 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1615	2442409.55	1974 Dec 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1616	2442412.12	1974 Dec 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1618	2442412.17	1974 Dec 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1619	2442412.19	1974 Dec 30 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1620	2442412.21	1974 Dec 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1621	2442412.23	1974 Dec 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1622	2442412.27	1974 Dec 30 1829:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1623	2442413.17	1974 Dec 31 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W1625	2442413.23	1974 Dec 31 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W06	2442415.21	1975 Jan 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1016	2442666.53	1975 Sep 11 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1017	2442667.96	1975 Sep 12 1106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1018	2442668.14	1975 Sep 12 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1019	2442668.19	1975 Sep 12 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1021	2442668.25	1975 Sep 12 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1022	2442668.36	1975 Sep 12 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y277	2442668.40	1975 Sep 12 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1023	2442668.42	1975 Sep 12 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1024	2442670.96	1975 Sep 15 1104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1025	2442671.14	1975 Sep 15 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1027	2442671.18	1975 Sep 15 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1028	2442671.18	1975 Sep 15 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1029	2442671.44	1975 Sep 15 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1030	2442671.55	1975 Sep 16 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1031	2442672.15	1975 Sep 16 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1032	2442672.16	1975 Sep 16 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1033	2442672.28	1975 Sep 16 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y278	2442672.40	1975 Sep 16 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1034	2442672.42	1975 Sep 16 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1035	2442673.03	1975 Sep 17 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1036	2442673.05	1975 Sep 17 1317:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1037	2442673.10	1975 Sep 17 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1038	2442673.11	1975 Sep 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1039	2442673.11	1975 Sep 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1040	2442673.13	1975 Sep 17 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1041	2442673.19	1975 Sep 17 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y283	2442673.53	1975 Sep 18 0037:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1043	2442674.08	1975 Sep 18 1355:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1044	2442674.25	1975 Sep 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y285	2442675.15	1975 Sep 19 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1045	2442675.18	1975 Sep 19 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1046	2442675.19	1975 Sep 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1048	2442675.41	1975 Sep 19 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1049	2442676.28	1975 Sep 20 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1050	2442677.25	1975 Sep 21 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1051	2442677.96	1975 Sep 22 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1052	2442678.13	1975 Sep 22 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1053	2442678.15	1975 Sep 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1054	2442678.15	1975 Sep 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1056	2442678.26	1975 Sep 22 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1057	2442679.00	1975 Sep 23 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1058	2442679.29	1975 Sep 23 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1059	2442679.52	1975 Sep 24 0033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1060	2442680.00	1975 Sep 24 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1061	2442680.04	1975 Sep 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1062	2442680.10	1975 Sep 24 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1063	2442680.16	1975 Sep 24 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1064	2442680.19	1975 Sep 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1066	2442680.26	1975 Sep 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1067	2442680.31	1975 Sep 24 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1068	2442680.45	1975 Sep 24 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1069	2442680.55	1975 Sep 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1070	2442680.55	1975 Sep 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1071	2442680.96	1975 Sep 25 1055:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1072	2442681.22	1975 Sep 25 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1073	2442681.26	1975 Sep 25 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1074	2442681.27	1975 Sep 25 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1075	2442681.40	1975 Sep 25 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1076	2442681.46	1975 Sep 25 2301:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1077	2442681.98	1975 Sep 26 1125:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1079	2442682.08	1975 Sep 26 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1080	2442682.11	1975 Sep 26 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1081	2442682.16	1975 Sep 26 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1083	2442682.21	1975 Sep 26 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1084	2442685.04	1975 Sep 29 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1085	2442685.20	1975 Sep 29 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1086	2442685.20	1975 Sep 29 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1087	2442685.24	1975 Sep 29 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1088	2442685.30	1975 Sep 29 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1089	2442685.42	1975 Sep 29 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W1098	2442685.54	1975 Sep 30 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y293	2442686.45	1975 Sep 30 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A54	2442687.08	1975 Oct 1 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1099	2442687.13	1975 Oct 1 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1100	2442687.17	1975 Oct 1 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1101	2442687.22	1975 Oct 1 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1103	2442687.38	1975 Oct 1 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1104	2442687.55	1975 Oct 2 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1105	2442688.20	1975 Oct 2 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1106	2442688.35	1975 Oct 2 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y298	2442688.38	1975 Oct 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1107	2442689.07	1975 Oct 3 1341:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1108	2442689.10	1975 Oct 3 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1110	2442689.14	1975 Oct 3 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1111	2442689.15	1975 Oct 3 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1112	2442689.21	1975 Oct 3 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1113	2442689.30	1975 Oct 3 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1114	2442689.46	1975 Oct 3 2257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1115	2442689.55	1975 Oct 4 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y299	2442690.21	1975 Oct 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1116	2442690.29	1975 Oct 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1117	2442690.32	1975 Oct 4 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1118	2442691.25	1975 Oct 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1119	2442692.15	1975 Oct 6 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1120	2442692.19	1975 Oct 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1122	2442692.26	1975 Oct 6 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1123	2442692.85	1975 Oct 7 0830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1124	2442692.90	1975 Oct 7 0937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1125	2442692.93	1975 Oct 7 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1126	2442693.19	1975 Oct 7 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1127	2442694.06	1975 Oct 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1128	2442694.10	1975 Oct 8 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1129	2442694.18	1975 Oct 8 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1131	2442694.23	1975 Oct 8 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1132	2442694.25	1975 Oct 8 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1133	2442694.32	1975 Oct 8 1945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A55	2442694.48	1975 Oct 8 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1134	2442695.17	1975 Oct 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1135	2442695.26	1975 Oct 9 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1136	2442695.42	1975 Oct 9 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1137	2442696.08	1975 Oct 10 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A56	2442696.14	1975 Oct 10 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1138	2442696.14	1975 Oct 10 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1140	2442696.18	1975 Oct 10 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1141	2442696.31	1975 Oct 10 1920:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y304	2442696.44	1975 Oct 10 2234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1142	2442696.46	1975 Oct 10 2257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1143	2442698.89	1975 Oct 13 0923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1144	2442699.08	1975 Oct 13 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1145	2442699.15	1975 Oct 13 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A57	2442699.49	1975 Oct 13 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1146	2442699.83	1975 Oct 14 0800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1147	2442700.17	1975 Oct 14 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1148	2442700.25	1975 Oct 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1149	2442700.33	1975 Oct 14 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1150	2442701.07	1975 Oct 15 1335:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1151	2442701.07	1975 Oct 15 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1152	2442701.08	1975 Oct 15 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1153	2442701.17	1975 Oct 15 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1155	2442701.23	1975 Oct 15 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1156	2442701.31	1975 Oct 15 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1157	2442702.02	1975 Oct 16 1222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1158	2442702.18	1975 Oct 16 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1159	2442702.26	1975 Oct 16 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1160	2442702.26	1975 Oct 16 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1161	2442702.43	1975 Oct 16 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1162	2442703.08	1975 Oct 17 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1163	2442703.15	1975 Oct 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1164	2442703.15	1975 Oct 17 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1165	2442703.27	1975 Oct 17 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y309	2442703.46	1975 Oct 17 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1166	2442703.48	1975 Oct 17 2327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1167	2442706.08	1975 Oct 20 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1168	2442706.15	1975 Oct 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1170	2442706.22	1975 Oct 20 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1171	2442706.23	1975 Oct 20 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1172	2442706.26	1975 Oct 20 1813:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1173	2442706.29	1975 Oct 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1174	2442706.52	1975 Oct 21 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1175	2442706.93	1975 Oct 21 1024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1176	2442707.15	1975 Oct 21 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1177	2442707.24	1975 Oct 21 1751:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1178	2442707.43	1975 Oct 21 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1179	2442708.06	1975 Oct 22 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1180	2442708.08	1975 Oct 22 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1181	2442708.09	1975 Oct 22 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y311	2442708.11	1975 Oct 22 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1182	2442708.12	1975 Oct 22 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1184	2442708.15	1975 Oct 22 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1185	2442708.27	1975 Oct 22 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1186	2442708.33	1975 Oct 22 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1187	2442708.48	1975 Oct 22 2332:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1188	2442708.48	1975 Oct 22 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1189	2442708.50	1975 Oct 23 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1190	2442709.22	1975 Oct 23 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1191	2442709.40	1975 Oct 23 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1192	2442709.52	1975 Oct 24 0033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1193	2442710.03	1975 Oct 24 1240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1194	2442710.14	1975 Oct 24 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1195	2442710.18	1975 Oct 24 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1197	2442710.22	1975 Oct 24 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1198	2442710.24	1975 Oct 24 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1199	2442710.27	1975 Oct 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1200	2442710.41	1975 Oct 24 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1201	2442713.15	1975 Oct 27 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1203	2442713.91	1975 Oct 28 0944:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1204	2442714.23	1975 Oct 28 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1205	2442714.24	1975 Oct 28 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1206	2442715.03	1975 Oct 29 1236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1207	2442715.11	1975 Oct 29 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1208	2442715.19	1975 Oct 29 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1209	2442715.21	1975 Oct 29 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1210	2442715.22	1975 Oct 29 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1211	2442715.23	1975 Oct 29 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1212	2442715.26	1975 Oct 29 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1213	2442715.41	1975 Oct 29 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1214	2442715.48	1975 Oct 29 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1215	2442716.19	1975 Oct 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1216	2442716.20	1975 Oct 30 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1217	2442716.42	1975 Oct 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1218	2442716.52	1975 Oct 31 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1220	2442717.13	1975 Oct 31 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1221	2442717.16	1975 Oct 31 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1222	2442717.23	1975 Oct 31 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1223	2442717.26	1975 Oct 31 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y319	2442717.39	1975 Oct 31 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1224	2442717.41	1975 Oct 31 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1225	2442720.02	1975 Nov 3 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1226	2442720.19	1975 Nov 3 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1228	2442720.19	1975 Nov 3 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1229	2442720.32	1975 Nov 3 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1230	2442720.50	1975 Nov 4 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1231	2442721.14	1975 Nov 4 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1233	2442721.22	1975 Nov 4 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A60	2442721.24	1975 Nov 4 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1234	2442721.33	1975 Nov 4 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1235	2442721.33	1975 Nov 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1236	2442722.04	1975 Nov 5 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1237	2442722.16	1975 Nov 5 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A61	2442722.19	1975 Nov 5 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1239	2442722.21	1975 Nov 5 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1240	2442722.22	1975 Nov 5 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1241	2442722.30	1975 Nov 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1242	2442722.40	1975 Nov 5 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1243	2442723.02	1975 Nov 6 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1244	2442723.15	1975 Nov 6 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y324	2442723.19	1975 Nov 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1246	2442723.31	1975 Nov 6 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1247	2442723.31	1975 Nov 6 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1248	2442724.11	1975 Nov 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1249	2442724.16	1975 Nov 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1250	2442724.16	1975 Nov 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1251	2442724.19	1975 Nov 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1253	2442724.35	1975 Nov 7 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y325	2442724.38	1975 Nov 7 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1254	2442724.43	1975 Nov 7 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y326	2442724.55	1975 Nov 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1255	2442727.04	1975 Nov 10 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1256	2442727.19	1975 Nov 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1258	2442727.23	1975 Nov 10 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1259	2442727.29	1975 Nov 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1260	2442727.42	1975 Nov 10 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1261	2442727.63	1975 Nov 11 0311:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1262	2442728.16	1975 Nov 11 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1264	2442729.06	1975 Nov 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1265	2442729.16	1975 Nov 12 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1266	2442729.18	1975 Nov 12 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1267	2442729.20	1975 Nov 12 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1268	2442729.22	1975 Nov 12 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1270	2442729.33	1975 Nov 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1271	2442729.42	1975 Nov 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1272	2442729.55	1975 Nov 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W1273	2442730.15	1975 Nov 13 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1275	2442730.25	1975 Nov 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1276	2442730.34	1975 Nov 13 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1277	2442731.15	1975 Nov 14 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y331	2442731.19	1975 Nov 14 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1279	2442731.19	1975 Nov 14 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1280	2442731.23	1975 Nov 14 1726:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y332	2442731.40	1975 Nov 14 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1281	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1282	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1283	2442734.19	1975 Nov 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1284	2442734.39	1975 Nov 17 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1285	2442734.45	1975 Nov 17 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1288	2442735.19	1975 Nov 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1289	2442736.11	1975 Nov 19 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1291	2442736.19	1975 Nov 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1292	2442736.19	1975 Nov 19 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1294	2442736.23	1975 Nov 19 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1296	2442736.27	1975 Nov 19 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y338	2442736.38	1975 Nov 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1297	2442736.39	1975 Nov 19 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1298	2442736.54	1975 Nov 20 0100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1299	2442737.03	1975 Nov 20 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1301	2442737.27	1975 Nov 20 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1302	2442737.57	1975 Nov 21 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1304	2442738.25	1975 Nov 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1305	2442740.90	1975 Nov 24 0934:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1307	2442741.19	1975 Nov 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1308	2442741.23	1975 Nov 24 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1310	2442742.23	1975 Nov 25 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1311	2442742.26	1975 Nov 25 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1312	2442743.08	1975 Nov 26 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1313	2442743.15	1975 Nov 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1315	2442743.18	1975 Nov 26 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1316	2442743.19	1975 Nov 26 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y345	2442743.25	1975 Nov 26 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1317	2442743.27	1975 Nov 26 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1318	2442743.33	1975 Nov 26 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1319	2442744.23	1975 Nov 27 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A66	2442748.19	1975 Dec 1 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1323	2442748.27	1975 Dec 1 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A67	2442748.27	1975 Dec 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1324	2442748.29	1975 Dec 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A68	2442748.31	1975 Dec 1 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1325	2442748.32	1975 Dec 1 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1326	2442748.33	1975 Dec 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1327	2442748.38	1975 Dec 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1328	2442749.00	1975 Dec 2 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1329	2442749.04	1975 Dec 2 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1330	2442749.07	1975 Dec 2 1334:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1331	2442749.17	1975 Dec 2 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1332	2442749.21	1975 Dec 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1333	2442749.21	1975 Dec 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1334	2442749.23	1975 Dec 2 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1335	2442749.29	1975 Dec 2 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1337	2442749.40	1975 Dec 2 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1338	2442749.42	1975 Dec 2 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1339	2442749.44	1975 Dec 2 2240:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A70	2442749.53	1975 Dec 3 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1340	2442750.10	1975 Dec 3 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1342	2442750.19	1975 Dec 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1344	2442750.29	1975 Dec 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1345	2442750.32	1975 Dec 3 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1346	2442750.46	1975 Dec 3 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1348	2442751.29	1975 Dec 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1350	2442752.15	1975 Dec 5 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1351	2442752.15	1975 Dec 5 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y352	2442752.19	1975 Dec 5 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1352	2442752.29	1975 Dec 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1353	2442752.42	1975 Dec 5 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A71	2442752.45	1975 Dec 5 2253:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1354	2442755.15	1975 Dec 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1355	2442755.19	1975 Dec 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1356	2442755.23	1975 Dec 8 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A72	2442755.24	1975 Dec 8 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A73	2442755.28	1975 Dec 8 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1358	2442755.29	1975 Dec 8 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A74	2442755.32	1975 Dec 8 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1360	2442756.24	1975 Dec 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1361	2442756.25	1975 Dec 9 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1362	2442756.43	1975 Dec 9 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1363	2442757.15	1975 Dec 10 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1364	2442757.15	1975 Dec 10 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1365	2442757.17	1975 Dec 10 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1366	2442757.22	1975 Dec 10 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1367	2442757.23	1975 Dec 10 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-Y358	2442757.50	1975 Dec 10 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1369	2442757.71	1975 Dec 11 0500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1370	2442758.15	1975 Dec 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1372	2442758.23	1975 Dec 11 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1373	2442758.38	1975 Dec 11 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y360	2442758.65	1975 Dec 12 0336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1374	2442758.69	1975 Dec 12 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y361	2442758.71	1975 Dec 12 0509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1375	2442758.74	1975 Dec 12 0542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1376	2442759.14	1975 Dec 12 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y362	2442759.15	1975 Dec 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1377	2442759.19	1975 Dec 12 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1379	2442759.45	1975 Dec 12 2246:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y363	2442759.56	1975 Dec 13 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1380	2442759.59	1975 Dec 13 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1381	2442760.60	1975 Dec 14 0230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1382	2442762.11	1975 Dec 15 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1383	2442762.15	1975 Dec 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1384	2442762.15	1975 Dec 15 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1385	2442762.20	1975 Dec 15 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1386	2442762.26	1975 Dec 15 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1387	2442762.41	1975 Dec 15 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y364	2442762.46	1975 Dec 15 2255:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1388	2442762.58	1975 Dec 16 0200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1390	2442763.31	1975 Dec 16 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1391	2442763.45	1975 Dec 16 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1392	2442763.68	1975 Dec 17 0414:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y366	2442763.98	1975 Dec 17 1130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1393	2442764.09	1975 Dec 17 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1394	2442764.15	1975 Dec 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1395	2442764.21	1975 Dec 17 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1396	2442764.28	1975 Dec 17 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y370	2442764.43	1975 Dec 17 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1398	2442764.45	1975 Dec 17 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1399	2442764.52	1975 Dec 18 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1400	2442764.64	1975 Dec 18 0324:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1401	2442765.15	1975 Dec 18 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1402	2442765.21	1975 Dec 18 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1404	2442765.48	1975 Dec 18 2333:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1405	2442766.15	1975 Dec 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1406	2442766.15	1975 Dec 19 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1407	2442766.19	1975 Dec 19 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1408	2442766.21	1975 Dec 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1409	2442766.22	1975 Dec 19 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1411	2442766.59	1975 Dec 20 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1412	2442767.23	1975 Dec 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1413	2442768.43	1975 Dec 21 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1415	2442768.65	1975 Dec 22 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y376	2442769.15	1975 Dec 22 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1416	2442769.24	1975 Dec 22 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1417	2442769.28	1975 Dec 22 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y377	2442769.29	1975 Dec 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y378	2442769.44	1975 Dec 22 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1420	2442770.20	1975 Dec 23 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1421	2442770.21	1975 Dec 23 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y383	2442771.15	1975 Dec 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1422	2442771.19	1975 Dec 24 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1423	2442771.21	1975 Dec 24 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1425	2442771.50	1975 Dec 24 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1426	2442773.45	1975 Dec 26 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-Y387	2442776.15	1975 Dec 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1427	2442776.17	1975 Dec 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1428	2442776.30	1975 Dec 29 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1429	2442776.39	1975 Dec 29 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1430	2442776.52	1975 Dec 30 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A77	2442778.15	1975 Dec 31 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-A78	2442778.19	1975 Dec 31 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1433	2442778.31	1975 Dec 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W01	2442778.58	1976 Jan 1 0152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W991	2442979.10	1976 Jul 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W992	2442979.23	1976 Jul 19 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W993	2442979.23	1976 Jul 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W994	2442979.25	1976 Jul 19 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W995	2442979.42	1976 Jul 19 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y290	2442979.49	1976 Jul 19 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W996	2442980.01	1976 Jul 20 1211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y291	2442980.11	1976 Jul 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W997	2442980.12	1976 Jul 20 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W998	2442980.41	1976 Jul 20 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W999	2442981.07	1976 Jul 21 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1000	2442981.11	1976 Jul 21 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1001	2442981.11	1976 Jul 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1002	2442981.15	1976 Jul 21 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1003	2442981.21	1976 Jul 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1004	2442981.21	1976 Jul 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1006	2442981.23	1976 Jul 21 1735:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1007	2442981.24	1976 Jul 21 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1008	2442981.26	1976 Jul 21 1808:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1009	2442981.27	1976 Jul 21 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1010	2442981.33	1976 Jul 21 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y298	2442981.40	1976 Jul 21 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1011	2442981.40	1976 Jul 21 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A45	2442981.49	1976 Jul 21 2343:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y299	2442981.55	1976 Jul 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1012	2442982.17	1976 Jul 22 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1013	2442982.19	1976 Jul 22 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1014	2442982.20	1976 Jul 22 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1015	2442982.49	1976 Jul 22 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A46	2442983.01	1976 Jul 23 1212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1016	2442983.07	1976 Jul 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1017	2442983.10	1976 Jul 23 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1018	2442983.15	1976 Jul 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1019	2442983.34	1976 Jul 23 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1020	2442986.10	1976 Jul 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1021	2442986.13	1976 Jul 26 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1022	2442986.13	1976 Jul 26 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1023	2442986.26	1976 Jul 26 1818:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1024	2442986.32	1976 Jul 26 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y303	2442986.48	1976 Jul 26 2326:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1025	2442986.99	1976 Jul 27 1142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1026	2442987.19	1976 Jul 27 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1027	2442987.20	1976 Jul 27 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1028	2442987.33	1976 Jul 27 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1029	2442987.42	1976 Jul 27 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1031	2442987.48	1976 Jul 27 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1032	2442988.02	1976 Jul 28 1232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1033	2442988.04	1976 Jul 28 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1034	2442988.06	1976 Jul 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1035	2442988.13	1976 Jul 28 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1036	2442988.18	1976 Jul 28 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1038	2442988.21	1976 Jul 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1039	2442988.23	1976 Jul 28 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y307	2442988.25	1976 Jul 28 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1040	2442988.26	1976 Jul 28 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1041	2442988.27	1976 Jul 28 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1042	2442988.39	1976 Jul 28 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1043	2442988.39	1976 Jul 28 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1044	2442988.39	1976 Jul 28 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1045	2442989.10	1976 Jul 29 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1046	2442989.12	1976 Jul 29 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1047	2442989.19	1976 Jul 29 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y319	2442989.50	1976 Jul 29 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1048	2442990.02	1976 Jul 30 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1049	2442990.11	1976 Jul 30 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1050	2442990.14	1976 Jul 30 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1051	2442990.19	1976 Jul 30 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1052	2442990.19	1976 Jul 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1053	2442990.38	1976 Jul 30 2112:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1062	2442991.31	1976 Jul 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1063	2442993.02	1976 Aug 2 1235:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1064	2442993.07	1976 Aug 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1065	2442993.10	1976 Aug 2 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1066	2442993.16	1976 Aug 2 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1067	2442993.22	1976 Aug 2 1723:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1068	2442993.23	1976 Aug 2 1733:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1069	2442993.26	1976 Aug 2 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1070	2442993.33	1976 Aug 2 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1071	2442993.47	1976 Aug 2 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1072	2442994.19	1976 Aug 3 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1073	2442995.05	1976 Aug 4 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1074	2442995.08	1976 Aug 4 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A47	2442995.10	1976 Aug 4 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1075	2442995.11	1976 Aug 4 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1076	2442995.13	1976 Aug 4 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1077	2442995.19	1976 Aug 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1078	2442995.19	1976 Aug 4 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1079	2442995.19	1976 Aug 4 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y335	2442995.21	1976 Aug 4 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1081	2442995.22	1976 Aug 4 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y336	2442995.33	1976 Aug 4 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1082	2442995.34	1976 Aug 4 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1083	2442995.38	1976 Aug 4 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1084	2442995.41	1976 Aug 4 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y337	2442995.42	1976 Aug 4 2210:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y338	2442995.55	1976 Aug 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1085	2442996.01	1976 Aug 5 1220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1086	2442996.17	1976 Aug 5 1602:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y340	2442996.50	1976 Aug 5 2354:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1087	2442997.11	1976 Aug 6 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1088	2442997.15	1976 Aug 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1089	2442997.19	1976 Aug 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1090	2442997.19	1976 Aug 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1092	2442997.21	1976 Aug 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1093	2442997.25	1976 Aug 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1094	2442997.36	1976 Aug 6 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A48	2442997.37	1976 Aug 6 2059:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1095	2443000.07	1976 Aug 9 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1096	2443000.07	1976 Aug 9 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1097	2443000.14	1976 Aug 9 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1098	2443000.18	1976 Aug 9 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1099	2443000.19	1976 Aug 9 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1100	2443000.20	1976 Aug 9 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1102	2443000.28	1976 Aug 9 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1103	2443000.36	1976 Aug 9 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1104	2443000.41	1976 Aug 9 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1105	2443000.47	1976 Aug 9 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1106	2443002.01	1976 Aug 11 1208:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1107	2443002.08	1976 Aug 11 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1108	2443002.10	1976 Aug 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1109	2443002.11	1976 Aug 11 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1110	2443002.12	1976 Aug 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y348	2443002.16	1976 Aug 11 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1111	2443002.18	1976 Aug 11 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1113	2443002.20	1976 Aug 11 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1114	2443002.21	1976 Aug 11 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1115	2443002.25	1976 Aug 11 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y350	2443002.26	1976 Aug 11 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1116	2443002.40	1976 Aug 11 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1117	2443002.42	1976 Aug 11 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1118	2443002.55	1976 Aug 12 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1120	2443002.64	1976 Aug 12 0322:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1121	2443003.13	1976 Aug 12 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1122	2443003.23	1976 Aug 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1123	2443003.50	1976 Aug 12 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1124	2443004.02	1976 Aug 13 1222:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1125	2443004.10	1976 Aug 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1126	2443004.12	1976 Aug 13 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1127	2443004.17	1976 Aug 13 1608:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1129	2443004.21	1976 Aug 13 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1130	2443004.23	1976 Aug 13 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1131	2443004.35	1976 Aug 13 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1132	2443004.40	1976 Aug 13 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A49	2443004.41	1976 Aug 13 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1134	2443007.12	1976 Aug 16 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1135	2443007.13	1976 Aug 16 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1136	2443007.14	1976 Aug 16 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1137	2443007.23	1976 Aug 16 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1138	2443007.25	1976 Aug 16 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1139	2443007.32	1976 Aug 16 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1140	2443007.41	1976 Aug 16 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1141	2443007.51	1976 Aug 17 0021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1142	2443007.74	1976 Aug 17 0545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1143	2443007.85	1976 Aug 17 0820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1144	2443007.89	1976 Aug 17 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1145	2443008.03	1976 Aug 17 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1146	2443008.12	1976 Aug 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1147	2443008.14	1976 Aug 17 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1148	2443008.23	1976 Aug 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1149	2443009.01	1976 Aug 18 1211:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1150	2443009.10	1976 Aug 18 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1151	2443009.12	1976 Aug 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1152	2443009.13	1976 Aug 18 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1153	2443009.17	1976 Aug 18 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1154	2443009.17	1976 Aug 18 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1155	2443009.21	1976 Aug 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1156	2443009.22	1976 Aug 18 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y356	2443009.24	1976 Aug 18 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1157	2443009.25	1976 Aug 18 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1158	2443009.32	1976 Aug 18 1940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1159	2443009.39	1976 Aug 18 2119:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1160	2443009.42	1976 Aug 18 2208:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1162	2443010.11	1976 Aug 19 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1163	2443010.12	1976 Aug 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1164	2443010.13	1976 Aug 19 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1165	2443010.14	1976 Aug 19 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1166	2443010.20	1976 Aug 19 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1167	2443010.20	1976 Aug 19 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A50	2443010.37	1976 Aug 19 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1168	2443011.02	1976 Aug 20 1229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1169	2443011.12	1976 Aug 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1170	2443011.14	1976 Aug 20 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1172	2443011.34	1976 Aug 20 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y384	2443011.39	1976 Aug 20 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1173	2443011.55	1976 Aug 21 0104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1174	2443013.12	1976 Aug 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1175	2443014.07	1976 Aug 23 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1176	2443014.11	1976 Aug 23 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1177	2443014.13	1976 Aug 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1178	2443014.14	1976 Aug 23 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1180	2443014.18	1976 Aug 23 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1181	2443014.32	1976 Aug 23 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1182	2443014.47	1976 Aug 23 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1184	2443015.18	1976 Aug 24 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1185	2443015.20	1976 Aug 24 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1186	2443016.02	1976 Aug 25 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1187	2443016.07	1976 Aug 25 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1188	2443016.10	1976 Aug 25 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1189	2443016.10	1976 Aug 25 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1191	2443016.14	1976 Aug 25 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1193	2443016.21	1976 Aug 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y395	2443016.22	1976 Aug 25 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1194	2443016.35	1976 Aug 25 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1195	2443016.35	1976 Aug 25 2024:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1196	2443016.58	1976 Aug 26 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1198	2443017.12	1976 Aug 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1199	2443017.14	1976 Aug 26 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1201	2443018.03	1976 Aug 27 1244:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1202	2443018.14	1976 Aug 27 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1203	2443018.17	1976 Aug 27 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1204	2443018.18	1976 Aug 27 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1206	2443018.19	1976 Aug 27 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1207	2443018.37	1976 Aug 27 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1209	2443019.19	1976 Aug 28 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1210	2443020.13	1976 Aug 29 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1211	2443021.03	1976 Aug 30 1238:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1212	2443021.04	1976 Aug 30 1303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1213	2443021.12	1976 Aug 30 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1214	2443021.23	1976 Aug 30 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1215	2443021.38	1976 Aug 30 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1223	2443021.55	1976 Aug 31 0111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1224	2443021.67	1976 Aug 31 0401:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1225	2443021.74	1976 Aug 31 0541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1226	2443022.13	1976 Aug 31 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1227	2443022.20	1976 Aug 31 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1228	2443022.34	1976 Aug 31 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1229	2443022.37	1976 Aug 31 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1230	2443022.38	1976 Aug 31 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1231	2443023.07	1976 Sep 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1232	2443023.09	1976 Sep 1 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1233	2443023.12	1976 Sep 1 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1234	2443023.13	1976 Sep 1 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1235	2443023.18	1976 Sep 1 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1237	2443023.20	1976 Sep 1 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y408	2443023.27	1976 Sep 1 1822:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1238	2443023.27	1976 Sep 1 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1239	2443023.33	1976 Sep 1 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1240	2443023.40	1976 Sep 1 2138:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1241	2443023.42	1976 Sep 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y409	2443023.58	1976 Sep 2 0149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1242	2443024.12	1976 Sep 2 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1243	2443024.18	1976 Sep 2 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1244	2443025.02	1976 Sep 3 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A53	2443025.11	1976 Sep 3 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1245	2443025.12	1976 Sep 3 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1246	2443025.14	1976 Sep 3 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1247	2443025.18	1976 Sep 3 1618:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A54	2443025.21	1976 Sep 3 1706:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y411	2443025.24	1976 Sep 3 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1248	2443025.46	1976 Sep 3 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1249	2443025.51	1976 Sep 4 0015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1251	2443026.13	1976 Sep 4 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1252	2443027.12	1976 Sep 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1253	2443028.12	1976 Sep 6 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1254	2443028.14	1976 Sep 6 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1255	2443029.14	1976 Sep 7 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1256	2443029.21	1976 Sep 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1257	2443029.22	1976 Sep 7 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1258	2443029.24	1976 Sep 7 1746:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1259	2443029.25	1976 Sep 7 1800:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1260	2443029.34	1976 Sep 7 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1261	2443029.36	1976 Sep 7 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1262	2443029.37	1976 Sep 7 2046:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1263	2443029.50	1976 Sep 7 2355:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1265	2443030.05	1976 Sep 8 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A55	2443030.10	1976 Sep 8 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1266	2443030.11	1976 Sep 8 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1267	2443030.12	1976 Sep 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1268	2443030.13	1976 Sep 8 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1269	2443030.14	1976 Sep 8 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1270	2443030.17	1976 Sep 8 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y413	2443030.18	1976 Sep 8 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1272	2443030.20	1976 Sep 8 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y414	2443030.21	1976 Sep 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1273	2443030.22	1976 Sep 8 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1274	2443030.33	1976 Sep 8 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1275	2443030.40	1976 Sep 8 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1276	2443030.44	1976 Sep 8 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1278	2443031.03	1976 Sep 9 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1280	2443031.10	1976 Sep 9 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1281	2443031.11	1976 Sep 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1283	2443031.25	1976 Sep 9 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1284	2443031.31	1976 Sep 9 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1285	2443031.51	1976 Sep 10 0011:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1286	2443032.12	1976 Sep 10 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A56	2443032.15	1976 Sep 10 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1288	2443032.29	1976 Sep 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1289	2443032.33	1976 Sep 10 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1290	2443032.41	1976 Sep 10 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1291	2443035.01	1976 Sep 13 1209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1292	2443035.12	1976 Sep 13 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1293	2443035.12	1976 Sep 13 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1294	2443035.24	1976 Sep 13 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1295	2443035.26	1976 Sep 13 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1296	2443035.33	1976 Sep 13 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1297	2443036.15	1976 Sep 14 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1299	2443037.06	1976 Sep 15 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1300	2443037.09	1976 Sep 15 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A57	2443037.12	1976 Sep 15 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1301	2443037.14	1976 Sep 15 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1302	2443037.14	1976 Sep 15 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1304	2443037.19	1976 Sep 15 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y422	2443037.20	1976 Sep 15 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1305	2443037.21	1976 Sep 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1306	2443037.23	1976 Sep 15 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y423	2443037.25	1976 Sep 15 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1307	2443037.26	1976 Sep 15 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1308	2443037.34	1976 Sep 15 2009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y425	2443037.37	1976 Sep 15 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1309	2443037.38	1976 Sep 15 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1310	2443038.14	1976 Sep 16 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1311	2443038.21	1976 Sep 16 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1312	2443038.53	1976 Sep 17 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1313	2443039.02	1976 Sep 17 1233:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1314	2443039.15	1976 Sep 17 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1315	2443039.17	1976 Sep 17 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1317	2443039.21	1976 Sep 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1318	2443039.23	1976 Sep 17 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1319	2443039.26	1976 Sep 17 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1320	2443039.42	1976 Sep 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1321	2443040.82	1976 Sep 19 0740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1322	2443041.79	1976 Sep 20 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1323	2443042.01	1976 Sep 20 1211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1324	2443042.11	1976 Sep 20 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1325	2443042.17	1976 Sep 20 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1327	2443042.20	1976 Sep 20 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1328	2443042.24	1976 Sep 20 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1329	2443042.26	1976 Sep 20 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1331	2443042.79	1976 Sep 21 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A58	2443043.12	1976 Sep 21 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1333	2443043.17	1976 Sep 21 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1334	2443043.21	1976 Sep 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1335	2443043.80	1976 Sep 22 0714:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1336	2443044.02	1976 Sep 22 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1337	2443044.08	1976 Sep 22 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A59	2443044.09	1976 Sep 22 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1338	2443044.14	1976 Sep 22 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A60	2443044.17	1976 Sep 22 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1340	2443044.17	1976 Sep 22 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1341	2443044.20	1976 Sep 22 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1342	2443044.21	1976 Sep 22 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1343	2443044.25	1976 Sep 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1344	2443044.26	1976 Sep 22 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y431	2443044.31	1976 Sep 22 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1345	2443044.34	1976 Sep 22 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1347	2443044.57	1976 Sep 23 0141:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1348	2443045.09	1976 Sep 23 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1349	2443045.12	1976 Sep 23 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1350	2443045.15	1976 Sep 23 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1351	2443045.17	1976 Sep 23 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1352	2443045.52	1976 Sep 24 0033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1353	2443045.79	1976 Sep 24 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1354	2443046.07	1976 Sep 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1355	2443046.14	1976 Sep 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1356	2443046.17	1976 Sep 24 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1357	2443046.17	1976 Sep 24 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1359	2443046.22	1976 Sep 24 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1360	2443046.23	1976 Sep 24 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1361	2443046.27	1976 Sep 24 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1363	2443046.79	1976 Sep 25 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1364	2443047.17	1976 Sep 25 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1365	2443047.79	1976 Sep 26 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1366	2443048.10	1976 Sep 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1367	2443048.80	1976 Sep 27 0704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1368	2443049.02	1976 Sep 27 1229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1369	2443049.09	1976 Sep 27 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1370	2443049.11	1976 Sep 27 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1371	2443049.17	1976 Sep 27 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1373	2443049.19	1976 Sep 27 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1374	2443049.27	1976 Sep 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1375	2443049.41	1976 Sep 27 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1376	2443049.44	1976 Sep 27 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1377	2443049.79	1976 Sep 28 0702:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1378	2443050.15	1976 Sep 28 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1380	2443050.34	1976 Sep 28 2014:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1381	2443050.45	1976 Sep 28 2241:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1382	2443050.53	1976 Sep 29 0041:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1384	2443050.82	1976 Sep 29 0734:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1385	2443051.02	1976 Sep 29 1231:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1386	2443051.08	1976 Sep 29 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1387	2443051.09	1976 Sep 29 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1388	2443051.15	1976 Sep 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1389	2443051.17	1976 Sep 29 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1390	2443051.20	1976 Sep 29 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y443	2443051.21	1976 Sep 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1392	2443051.22	1976 Sep 29 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1401	2443051.55	1976 Sep 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1402	2443051.79	1976 Sep 30 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1403	2443052.14	1976 Sep 30 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1404	2443052.16	1976 Sep 30 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1405	2443052.23	1976 Sep 30 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1406	2443052.43	1976 Sep 30 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1407	2443052.79	1976 Oct 1 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1408	2443053.07	1976 Oct 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1409	2443053.15	1976 Oct 1 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1410	2443053.18	1976 Oct 1 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1411	2443053.19	1976 Oct 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1414	2443053.34	1976 Oct 1 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1415	2443053.44	1976 Oct 1 2232:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1416	2443053.79	1976 Oct 2 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1417	2443056.01	1976 Oct 4 1219:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1418	2443056.10	1976 Oct 4 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1419	2443056.11	1976 Oct 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1420	2443056.17	1976 Oct 4 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1421	2443056.18	1976 Oct 4 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1422	2443056.20	1976 Oct 4 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1423	2443056.29	1976 Oct 4 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1424	2443056.36	1976 Oct 4 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1425	2443056.47	1976 Oct 4 2314:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1427	2443057.14	1976 Oct 5 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1428	2443058.07	1976 Oct 6 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1429	2443058.09	1976 Oct 6 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A62	2443058.13	1976 Oct 6 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1432	2443058.13	1976 Oct 6 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1433	2443058.14	1976 Oct 6 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1434	2443058.17	1976 Oct 6 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1435	2443058.18	1976 Oct 6 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1436	2443058.19	1976 Oct 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y450	2443058.20	1976 Oct 6 1652:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1437	2443058.28	1976 Oct 6 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1438	2443058.28	1976 Oct 6 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y452	2443058.30	1976 Oct 6 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1439	2443058.33	1976 Oct 6 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1440	2443058.55	1976 Oct 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1441	2443059.04	1976 Oct 7 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1442	2443059.13	1976 Oct 7 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1443	2443059.25	1976 Oct 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1444	2443059.33	1976 Oct 7 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1445	2443059.39	1976 Oct 7 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1446	2443060.06	1976 Oct 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1447	2443060.11	1976 Oct 8 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1448	2443060.17	1976 Oct 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1450	2443060.19	1976 Oct 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A64	2443060.54	1976 Oct 9 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1451	2443063.13	1976 Oct 11 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1452	2443063.15	1976 Oct 11 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1453	2443064.16	1976 Oct 12 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1454	2443064.23	1976 Oct 12 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1455	2443064.33	1976 Oct 12 2001:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1456	2443064.42	1976 Oct 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1458	2443065.07	1976 Oct 13 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1459	2443065.09	1976 Oct 13 1407:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A65	2443065.10	1976 Oct 13 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1460	2443065.13	1976 Oct 13 1503:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y458	2443065.17	1976 Oct 13 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1461	2443065.17	1976 Oct 13 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1463	2443065.20	1976 Oct 13 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1464	2443065.21	1976 Oct 13 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1465	2443065.22	1976 Oct 13 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A66	2443065.22	1976 Oct 13 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y459	2443065.25	1976 Oct 13 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1466	2443065.26	1976 Oct 13 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1467	2443065.26	1976 Oct 13 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1468	2443065.34	1976 Oct 13 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1469	2443065.38	1976 Oct 13 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1470	2443065.40	1976 Oct 13 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1471	2443065.40	1976 Oct 13 2141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1472	2443066.05	1976 Oct 14 1304:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A68	2443066.55	1976 Oct 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1473	2443067.03	1976 Oct 15 1236:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1474	2443067.10	1976 Oct 15 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1475	2443067.10	1976 Oct 15 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1476	2443067.10	1976 Oct 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1478	2443067.19	1976 Oct 15 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1479	2443067.32	1976 Oct 15 1941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1480	2443067.36	1976 Oct 15 2034:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1481	2443067.37	1976 Oct 15 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1482	2443067.49	1976 Oct 15 2344:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1484	2443070.09	1976 Oct 18 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1485	2443070.11	1976 Oct 18 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1486	2443070.16	1976 Oct 18 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1487	2443070.19	1976 Oct 18 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1488	2443070.23	1976 Oct 18 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1489	2443070.53	1976 Oct 19 0043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1491	2443071.25	1976 Oct 19 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1493	2443072.07	1976 Oct 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1494	2443072.10	1976 Oct 20 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1495	2443072.12	1976 Oct 20 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y467	2443072.12	1976 Oct 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1496	2443072.12	1976 Oct 20 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1497	2443072.15	1976 Oct 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y468	2443072.15	1976 Oct 20 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1499	2443072.18	1976 Oct 20 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1500	2443072.23	1976 Oct 20 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1501	2443072.33	1976 Oct 20 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1502	2443072.43	1976 Oct 20 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1503	2443072.50	1976 Oct 21 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1504	2443072.58	1976 Oct 21 0156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1506	2443073.25	1976 Oct 21 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A70	2443074.04	1976 Oct 22 1300:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1507	2443074.07	1976 Oct 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1508	2443074.11	1976 Oct 22 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1509	2443074.12	1976 Oct 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1510	2443074.13	1976 Oct 22 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1511	2443074.17	1976 Oct 22 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1512	2443074.26	1976 Oct 22 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1513	2443074.42	1976 Oct 22 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1514	2443074.49	1976 Oct 22 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1515	2443075.35	1976 Oct 23 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1517	2443077.15	1976 Oct 25 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1519	2443078.08	1976 Oct 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1520	2443078.25	1976 Oct 26 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1521	2443078.33	1976 Oct 26 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1522	2443078.36	1976 Oct 26 2044:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1523	2443078.40	1976 Oct 26 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1524	2443078.43	1976 Oct 26 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1525	2443078.44	1976 Oct 26 2232:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1526	2443079.06	1976 Oct 27 1319:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1527	2443079.07	1976 Oct 27 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y476	2443079.08	1976 Oct 27 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1528	2443079.09	1976 Oct 27 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1529	2443079.11	1976 Oct 27 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1530	2443079.13	1976 Oct 27 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1531	2443079.14	1976 Oct 27 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1532	2443079.19	1976 Oct 27 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y478	2443079.25	1976 Oct 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1534	2443079.26	1976 Oct 27 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1535	2443079.35	1976 Oct 27 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y479	2443079.40	1976 Oct 27 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1536	2443079.41	1976 Oct 27 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1537	2443079.55	1976 Oct 28 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1539	2443080.02	1976 Oct 28 1227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1540	2443080.49	1976 Oct 28 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1541	2443081.11	1976 Oct 29 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1542	2443081.12	1976 Oct 29 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1543	2443081.14	1976 Oct 29 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1544	2443081.15	1976 Oct 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1545	2443081.16	1976 Oct 29 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1547	2443081.22	1976 Oct 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y480	2443081.29	1976 Oct 29 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1548	2443081.32	1976 Oct 29 1946:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1549	2443081.38	1976 Oct 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1550	2443081.38	1976 Oct 29 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1551	2443081.42	1976 Oct 29 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1552	2443081.52	1976 Oct 30 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1567	2443084.02	1976 Nov 1 1233:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1568	2443084.10	1976 Nov 1 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1569	2443084.16	1976 Nov 1 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1570	2443084.19	1976 Nov 1 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1572	2443084.24	1976 Nov 1 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1573	2443084.28	1976 Nov 1 1836:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1574	2443084.29	1976 Nov 1 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1575	2443084.35	1976 Nov 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1576	2443084.46	1976 Nov 1 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1577	2443084.47	1976 Nov 1 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1578	2443085.13	1976 Nov 2 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1579	2443086.07	1976 Nov 3 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1580	2443086.09	1976 Nov 3 1403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1581	2443086.14	1976 Nov 3 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y487	2443086.17	1976 Nov 3 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1583	2443086.22	1976 Nov 3 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1584	2443086.23	1976 Nov 3 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y488	2443086.29	1976 Nov 3 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1585	2443086.31	1976 Nov 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1586	2443086.32	1976 Nov 3 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1587	2443086.40	1976 Nov 3 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1588	2443086.42	1976 Nov 3 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1589	2443087.02	1976 Nov 4 1229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1590	2443087.15	1976 Nov 4 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1592	2443088.12	1976 Nov 5 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1593	2443088.16	1976 Nov 5 1548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1594	2443088.21	1976 Nov 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A73	2443088.22	1976 Nov 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1595	2443088.23	1976 Nov 5 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1596	2443088.29	1976 Nov 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1597	2443088.34	1976 Nov 5 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1598	2443088.38	1976 Nov 5 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1599	2443088.50	1976 Nov 5 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1600	2443091.07	1976 Nov 8 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1601	2443091.12	1976 Nov 8 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1602	2443091.16	1976 Nov 8 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1603	2443091.18	1976 Nov 8 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1604	2443091.18	1976 Nov 8 1620:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1605	2443091.18	1976 Nov 8 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1606	2443091.27	1976 Nov 8 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1607	2443091.35	1976 Nov 8 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1608	2443091.39	1976 Nov 8 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1609	2443091.47	1976 Nov 8 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1612	2443093.07	1976 Nov 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1613	2443093.09	1976 Nov 10 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1614	2443093.11	1976 Nov 10 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1615	2443093.11	1976 Nov 10 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1616	2443093.15	1976 Nov 10 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y495	2443093.18	1976 Nov 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1617	2443093.19	1976 Nov 10 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1618	2443093.19	1976 Nov 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y496	2443093.21	1976 Nov 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1619	2443093.22	1976 Nov 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1620	2443093.31	1976 Nov 10 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1621	2443093.33	1976 Nov 10 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1622	2443093.38	1976 Nov 10 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1623	2443093.40	1976 Nov 10 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1624	2443093.54	1976 Nov 11 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1625	2443093.55	1976 Nov 11 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1627	2443094.04	1976 Nov 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1629	2443094.21	1976 Nov 11 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1630	2443095.03	1976 Nov 12 1241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1631	2443095.11	1976 Nov 12 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1632	2443095.13	1976 Nov 12 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1633	2443095.14	1976 Nov 12 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1634	2443095.19	1976 Nov 12 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y497	2443095.23	1976 Nov 12 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1636	2443095.31	1976 Nov 12 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1637	2443095.41	1976 Nov 12 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1638	2443095.50	1976 Nov 12 2357:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1639	2443095.54	1976 Nov 13 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1640	2443095.77	1976 Nov 13 0630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1642	2443098.07	1976 Nov 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1643	2443098.10	1976 Nov 15 1418:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1644	2443098.15	1976 Nov 15 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1645	2443098.18	1976 Nov 15 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1646	2443098.18	1976 Nov 15 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A74	2443098.20	1976 Nov 15 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1647	2443098.28	1976 Nov 15 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1648	2443098.47	1976 Nov 15 2312:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1649	2443098.54	1976 Nov 16 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1650	2443098.73	1976 Nov 16 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1651	2443100.03	1976 Nov 17 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1652	2443100.05	1976 Nov 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1653	2443100.12	1976 Nov 17 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1654	2443100.14	1976 Nov 17 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1655	2443100.15	1976 Nov 17 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1658	2443100.19	1976 Nov 17 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1659	2443100.22	1976 Nov 17 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y503	2443100.23	1976 Nov 17 1731:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1660	2443100.23	1976 Nov 17 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y504	2443100.30	1976 Nov 17 1904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1661	2443100.30	1976 Nov 17 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1662	2443100.39	1976 Nov 17 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1663	2443100.41	1976 Nov 17 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y505	2443100.49	1976 Nov 17 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1664	2443100.69	1976 Nov 18 0430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1666	2443101.01	1976 Nov 18 1210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1668	2443102.13	1976 Nov 19 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1669	2443102.13	1976 Nov 19 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1670	2443102.19	1976 Nov 19 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1672	2443102.20	1976 Nov 19 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1673	2443102.20	1976 Nov 19 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1674	2443102.29	1976 Nov 19 1857:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1675	2443102.40	1976 Nov 19 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1676	2443103.75	1976 Nov 21 0600:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1677	2443105.03	1976 Nov 22 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1678	2443105.14	1976 Nov 22 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1679	2443105.19	1976 Nov 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1681	2443105.20	1976 Nov 22 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1682	2443105.28	1976 Nov 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1683	2443105.30	1976 Nov 22 1915:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1684	2443105.45	1976 Nov 22 2252:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1685	2443105.47	1976 Nov 22 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1686	2443105.73	1976 Nov 23 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1688	2443106.20	1976 Nov 23 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1689	2443106.75	1976 Nov 24 0601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1690	2443107.05	1976 Nov 24 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1691	2443107.07	1976 Nov 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1692	2443107.12	1976 Nov 24 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1693	2443107.13	1976 Nov 24 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1694	2443107.16	1976 Nov 24 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y513	2443107.17	1976 Nov 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1695	2443107.20	1976 Nov 24 1645:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y514	2443107.21	1976 Nov 24 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y515	2443107.23	1976 Nov 24 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1697	2443107.24	1976 Nov 24 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1698	2443107.25	1976 Nov 24 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1699	2443107.32	1976 Nov 24 1933:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1700	2443107.38	1976 Nov 24 2100:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1701	2443107.49	1976 Nov 24 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1703	2443108.12	1976 Nov 25 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1706	2443108.88	1976 Nov 26 0900:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1707	2443109.12	1976 Nov 26 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1708	2443109.15	1976 Nov 26 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1709	2443109.15	1976 Nov 26 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1711	2443109.20	1976 Nov 26 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1712	2443109.21	1976 Nov 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1713	2443109.55	1976 Nov 27 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1714	2443111.73	1976 Nov 29 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1715	2443112.10	1976 Nov 29 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1716	2443112.19	1976 Nov 29 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1717	2443112.19	1976 Nov 29 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1718	2443112.21	1976 Nov 29 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1719	2443112.22	1976 Nov 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1720	2443112.28	1976 Nov 29 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1721	2443112.42	1976 Nov 29 2211:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1722	2443112.47	1976 Nov 29 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1723	2443113.02	1976 Nov 30 1234:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1724	2443113.35	1976 Nov 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1725	2443113.72	1976 Dec 1 0515:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1726	2443114.07	1976 Dec 1 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1727	2443114.10	1976 Dec 1 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1728	2443114.12	1976 Dec 1 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1729	2443114.13	1976 Dec 1 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1730	2443114.14	1976 Dec 1 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1731	2443114.15	1976 Dec 1 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y521	2443114.16	1976 Dec 1 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1733	2443114.19	1976 Dec 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1734	2443114.20	1976 Dec 1 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y523	2443114.25	1976 Dec 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1736	2443114.26	1976 Dec 1 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1737	2443114.50	1976 Dec 1 2358:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1740	2443115.25	1976 Dec 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1741	2443115.30	1976 Dec 2 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1742	2443115.41	1976 Dec 2 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1743	2443116.09	1976 Dec 3 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1744	2443116.10	1976 Dec 3 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1745	2443116.12	1976 Dec 3 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1746	2443116.15	1976 Dec 3 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1748	2443116.25	1976 Dec 3 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1749	2443116.33	1976 Dec 3 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1750	2443116.40	1976 Dec 3 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1754	2443119.11	1976 Dec 6 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1755	2443119.15	1976 Dec 6 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1756	2443119.19	1976 Dec 6 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1757	2443119.22	1976 Dec 6 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1758	2443119.25	1976 Dec 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1759	2443119.26	1976 Dec 6 1809:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1760	2443119.28	1976 Dec 6 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1761	2443119.29	1976 Dec 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1762	2443119.36	1976 Dec 6 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1763	2443119.47	1976 Dec 6 2311:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1764	2443120.00	1976 Dec 7 1204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A75	2443120.17	1976 Dec 7 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1765	2443120.19	1976 Dec 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1767	2443120.34	1976 Dec 7 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1768	2443121.01	1976 Dec 8 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1769	2443121.13	1976 Dec 8 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1770	2443121.13	1976 Dec 8 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1771	2443121.15	1976 Dec 8 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y533	2443121.19	1976 Dec 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1772	2443121.21	1976 Dec 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y535	2443121.27	1976 Dec 8 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1774	2443121.27	1976 Dec 8 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1775	2443121.27	1976 Dec 8 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1776	2443121.31	1976 Dec 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1777	2443121.35	1976 Dec 8 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1778	2443121.52	1976 Dec 9 0034:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1779	2443122.01	1976 Dec 9 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1780	2443122.09	1976 Dec 9 1411:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1781	2443122.11	1976 Dec 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1782	2443122.13	1976 Dec 9 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1783	2443122.14	1976 Dec 9 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1784	2443122.15	1976 Dec 9 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1786	2443122.17	1976 Dec 9 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1787	2443122.25	1976 Dec 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1788	2443122.25	1976 Dec 9 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1789	2443123.13	1976 Dec 10 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1791	2443123.15	1976 Dec 10 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y538	2443123.19	1976 Dec 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y539	2443123.25	1976 Dec 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1792	2443123.26	1976 Dec 10 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1793	2443123.29	1976 Dec 10 1859:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1794	2443123.34	1976 Dec 10 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1795	2443123.38	1976 Dec 10 2100:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y541	2443123.40	1976 Dec 10 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1796	2443123.42	1976 Dec 10 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1797	2443124.17	1976 Dec 11 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1798	2443125.15	1976 Dec 12 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1800	2443126.11	1976 Dec 13 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1801	2443126.13	1976 Dec 13 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1803	2443126.17	1976 Dec 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1804	2443126.19	1976 Dec 13 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1805	2443126.21	1976 Dec 13 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1806	2443126.27	1976 Dec 13 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1807	2443126.30	1976 Dec 13 1908:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1808	2443126.33	1976 Dec 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1809	2443126.43	1976 Dec 13 2218:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1810	2443127.01	1976 Dec 14 1208:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1812	2443127.15	1976 Dec 14 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1813	2443127.20	1976 Dec 14 1648:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1814	2443127.23	1976 Dec 14 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1815	2443127.35	1976 Dec 14 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1816	2443127.37	1976 Dec 14 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1817	2443128.07	1976 Dec 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1818	2443128.09	1976 Dec 15 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-A79	2443128.09	1976 Dec 15 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1819	2443128.10	1976 Dec 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1820	2443128.11	1976 Dec 15 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1821	2443128.12	1976 Dec 15 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y549	2443128.17	1976 Dec 15 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1823	2443128.18	1976 Dec 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y551	2443128.21	1976 Dec 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1824	2443128.22	1976 Dec 15 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1825	2443128.35	1976 Dec 15 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1826	2443128.51	1976 Dec 16 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1827	2443129.02	1976 Dec 16 1223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1828	2443129.04	1976 Dec 16 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1829	2443129.08	1976 Dec 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y553	2443129.19	1976 Dec 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1830	2443129.22	1976 Dec 16 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1831	2443129.22	1976 Dec 16 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1832	2443129.35	1976 Dec 16 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1833	2443129.39	1976 Dec 16 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1834	2443129.55	1976 Dec 17 0106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W1835	2443130.11	1976 Dec 17 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1836	2443130.12	1976 Dec 17 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1837	2443130.15	1976 Dec 17 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1839	2443130.19	1976 Dec 17 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1840	2443130.20	1976 Dec 17 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1841	2443130.54	1976 Dec 18 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1842	2443133.04	1976 Dec 20 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1843	2443133.09	1976 Dec 20 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1844	2443133.10	1976 Dec 20 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1845	2443133.10	1976 Dec 20 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1847	2443133.19	1976 Dec 20 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1848	2443133.19	1976 Dec 20 1635:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1849	2443133.27	1976 Dec 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1850	2443133.27	1976 Dec 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1851	2443133.38	1976 Dec 20 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1852	2443133.42	1976 Dec 20 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1853	2443133.48	1976 Dec 20 2327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1855	2443134.21	1976 Dec 21 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1856	2443134.36	1976 Dec 21 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1857	2443135.07	1976 Dec 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1858	2443135.09	1976 Dec 22 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1859	2443135.13	1976 Dec 22 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1861	2443135.14	1976 Dec 22 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1862	2443135.17	1976 Dec 22 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y566	2443135.19	1976 Dec 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1864	2443135.19	1976 Dec 22 1637:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1865	2443135.19	1976 Dec 22 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1866	2443135.22	1976 Dec 22 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1868	2443135.39	1976 Dec 22 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y567	2443135.42	1976 Dec 22 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1869	2443135.44	1976 Dec 22 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y568	2443135.55	1976 Dec 23 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1871	2443136.30	1976 Dec 23 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1872	2443136.50	1976 Dec 24 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1873	2443137.11	1976 Dec 24 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1875	2443137.24	1976 Dec 24 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1876	2443140.21	1976 Dec 27 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1877	2443140.25	1976 Dec 27 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1878	2443140.50	1976 Dec 27 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1879	2443141.13	1976 Dec 28 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1880	2443141.15	1976 Dec 28 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1882	2443142.10	1976 Dec 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1883	2443142.11	1976 Dec 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1884	2443142.14	1976 Dec 29 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1885	2443142.14	1976 Dec 29 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1886	2443142.15	1976 Dec 29 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1887	2443142.18	1976 Dec 29 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1888	2443142.21	1976 Dec 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y583	2443142.22	1976 Dec 29 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-Y584	2443142.25	1976 Dec 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1889	2443142.26	1976 Dec 29 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1890	2443142.39	1976 Dec 29 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1891	2443142.54	1976 Dec 30 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1892	2443143.02	1976 Dec 30 1231:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1893	2443143.10	1976 Dec 30 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1894	2443143.19	1976 Dec 30 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1895	2443143.40	1976 Dec 30 2143:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1898	2443144.16	1976 Dec 31 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1031	2443312.27	1977 Jun 17 1823:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1032	2443312.47	1977 Jun 17 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1033	2443312.52	1977 Jun 18 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1034	2443313.47	1977 Jun 18 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1035	2443314.47	1977 Jun 19 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1036	2443315.07	1977 Jun 20 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1037	2443315.09	1977 Jun 20 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1038	2443315.16	1977 Jun 20 1552:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1039	2443315.18	1977 Jun 20 1623:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1040	2443315.23	1977 Jun 20 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1041	2443315.48	1977 Jun 20 2335:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1042	2443315.50	1977 Jun 21 0004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1044	2443315.99	1977 Jun 21 1141:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1045	2443316.20	1977 Jun 21 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1046	2443316.47	1977 Jun 21 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1047	2443317.06	1977 Jun 22 1329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1049	2443317.12	1977 Jun 22 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y241	2443317.15	1977 Jun 22 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1050	2443317.15	1977 Jun 22 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1051	2443317.17	1977 Jun 22 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1053	2443317.19	1977 Jun 22 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1056	2443317.26	1977 Jun 22 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1058	2443317.35	1977 Jun 22 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y242	2443317.39	1977 Jun 22 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y243	2443317.39	1977 Jun 22 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1059	2443317.41	1977 Jun 22 2156:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1060	2443317.42	1977 Jun 22 2200:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1061	2443317.47	1977 Jun 22 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1062	2443318.01	1977 Jun 23 1209:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1063	2443318.13	1977 Jun 23 1501:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1064	2443318.40	1977 Jun 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1065	2443318.47	1977 Jun 23 2323:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1066	2443319.10	1977 Jun 24 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1067	2443319.13	1977 Jun 24 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1068	2443319.14	1977 Jun 24 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1069	2443319.17	1977 Jun 24 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y245	2443319.21	1977 Jun 24 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1070	2443319.26	1977 Jun 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1071	2443319.34	1977 Jun 24 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1072	2443319.48	1977 Jun 24 2325:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1073	2443320.47	1977 Jun 25 2319:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1075	2443321.47	1977 Jun 26 2322:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1076	2443322.03	1977 Jun 27 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1077	2443322.03	1977 Jun 27 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1078	2443322.09	1977 Jun 27 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1079	2443322.13	1977 Jun 27 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1080	2443322.14	1977 Jun 27 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1081	2443322.27	1977 Jun 27 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1082	2443322.27	1977 Jun 27 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1083	2443322.35	1977 Jun 27 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1084	2443322.49	1977 Jun 27 2344:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1085	2443322.52	1977 Jun 28 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1086	2443323.12	1977 Jun 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1087	2443323.50	1977 Jun 28 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1088	2443323.50	1977 Jun 29 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1091	2443324.07	1977 Jun 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1092	2443324.10	1977 Jun 29 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1093	2443324.11	1977 Jun 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1094	2443324.12	1977 Jun 29 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1096	2443324.14	1977 Jun 29 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1097	2443324.16	1977 Jun 29 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1098	2443324.17	1977 Jun 29 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y249	2443324.25	1977 Jun 29 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A33	2443324.26	1977 Jun 29 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y250	2443324.29	1977 Jun 29 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1100	2443324.31	1977 Jun 29 1923:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y251	2443324.47	1977 Jun 29 2315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1103	2443324.50	1977 Jun 30 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1104	2443325.01	1977 Jun 30 1221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1105	2443325.17	1977 Jun 30 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1106	2443325.26	1977 Jun 30 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1107	2443325.35	1977 Jun 30 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1108	2443325.47	1977 Jun 30 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A34	2443325.50	1977 Jul 1 0006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1109	2443326.21	1977 Jul 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1110	2443326.23	1977 Jul 1 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1111	2443326.25	1977 Jul 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1112	2443326.47	1977 Jul 1 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1113	2443327.47	1977 Jul 2 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1114	2443328.47	1977 Jul 3 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1115	2443329.13	1977 Jul 4 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1116	2443329.49	1977 Jul 4 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1117	2443330.21	1977 Jul 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1118	2443330.25	1977 Jul 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1119	2443330.25	1977 Jul 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1120	2443330.39	1977 Jul 5 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1121	2443330.48	1977 Jul 5 2329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1122	2443330.50	1977 Jul 6 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1123	2443331.11	1977 Jul 6 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1124	2443331.11	1977 Jul 6 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1125	2443331.12	1977 Jul 6 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1127	2443331.13	1977 Jul 6 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y255	2443331.25	1977 Jul 6 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1129	2443331.26	1977 Jul 6 1810:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1130	2443331.33	1977 Jul 6 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y256	2443331.38	1977 Jul 6 2106:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1131	2443331.40	1977 Jul 6 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y257	2443331.47	1977 Jul 6 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1132	2443331.50	1977 Jul 7 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1133	2443332.36	1977 Jul 7 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1134	2443332.47	1977 Jul 7 2318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1135	2443332.50	1977 Jul 8 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1136	2443333.08	1977 Jul 8 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1137	2443333.14	1977 Jul 8 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1138	2443333.24	1977 Jul 8 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A35	2443333.36	1977 Jul 8 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1139	2443333.49	1977 Jul 8 2345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1140	2443333.50	1977 Jul 9 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1141	2443334.47	1977 Jul 9 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1142	2443335.47	1977 Jul 10 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1143	2443336.11	1977 Jul 11 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1144	2443336.16	1977 Jul 11 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1145	2443336.25	1977 Jul 11 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1146	2443336.29	1977 Jul 11 1853:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1147	2443336.47	1977 Jul 11 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1148	2443337.10	1977 Jul 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1149	2443337.23	1977 Jul 12 1726:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1150	2443337.38	1977 Jul 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1151	2443337.47	1977 Jul 12 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1152	2443338.11	1977 Jul 13 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1153	2443338.13	1977 Jul 13 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1154	2443338.26	1977 Jul 13 1810:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1156	2443338.36	1977 Jul 13 2036:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1157	2443338.37	1977 Jul 13 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1158	2443338.38	1977 Jul 13 2107:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1159	2443338.47	1977 Jul 13 2321:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1160	2443339.12	1977 Jul 14 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1161	2443339.15	1977 Jul 14 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1162	2443339.38	1977 Jul 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y262	2443339.47	1977 Jul 14 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1163	2443339.50	1977 Jul 15 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1164	2443340.10	1977 Jul 15 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1165	2443340.14	1977 Jul 15 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1166	2443340.25	1977 Jul 15 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1167	2443340.27	1977 Jul 15 1833:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1168	2443340.40	1977 Jul 15 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1169	2443340.45	1977 Jul 15 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1170	2443340.47	1977 Jul 15 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1171	2443341.10	1977 Jul 16 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1172	2443341.27	1977 Jul 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1173	2443341.38	1977 Jul 16 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y265	2443341.47	1977 Jul 16 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1174	2443342.11	1977 Jul 17 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1175	2443342.29	1977 Jul 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1176	2443342.38	1977 Jul 17 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1177	2443342.47	1977 Jul 17 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1178	2443343.11	1977 Jul 18 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1179	2443343.12	1977 Jul 18 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1180	2443343.27	1977 Jul 18 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1181	2443343.29	1977 Jul 18 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1182	2443343.30	1977 Jul 18 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1183	2443343.30	1977 Jul 18 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1184	2443343.38	1977 Jul 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1185	2443343.38	1977 Jul 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1186	2443343.48	1977 Jul 18 2327:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1187	2443344.14	1977 Jul 19 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1188	2443344.15	1977 Jul 19 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1190	2443344.27	1977 Jul 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1191	2443344.29	1977 Jul 19 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1192	2443344.42	1977 Jul 19 2202:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1193	2443344.48	1977 Jul 19 2324:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1194	2443345.14	1977 Jul 20 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1197	2443345.23	1977 Jul 20 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1199	2443345.25	1977 Jul 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1200	2443345.25	1977 Jul 20 1806:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y269	2443345.26	1977 Jul 20 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1202	2443345.27	1977 Jul 20 1830:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1203	2443345.28	1977 Jul 20 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1205	2443345.38	1977 Jul 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1207	2443345.48	1977 Jul 20 2329:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1208	2443345.50	1977 Jul 21 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1210	2443346.05	1977 Jul 21 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1213	2443346.25	1977 Jul 21 1757:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1214	2443346.25	1977 Jul 21 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1215	2443346.26	1977 Jul 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1217	2443346.38	1977 Jul 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1219	2443346.47	1977 Jul 21 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1221	2443347.15	1977 Jul 22 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1222	2443347.18	1977 Jul 22 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1224	2443347.25	1977 Jul 22 1801:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1225	2443347.29	1977 Jul 22 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1226	2443347.29	1977 Jul 22 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1227	2443347.38	1977 Jul 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y272	2443347.40	1977 Jul 22 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1228	2443347.41	1977 Jul 22 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1229	2443347.48	1977 Jul 22 2330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1230	2443347.50	1977 Jul 23 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1233	2443348.10	1977 Jul 23 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1234	2443348.29	1977 Jul 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1235	2443348.40	1977 Jul 23 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1236	2443348.50	1977 Jul 23 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1237	2443349.09	1977 Jul 24 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1238	2443349.34	1977 Jul 24 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1239	2443349.42	1977 Jul 24 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y273	2443349.47	1977 Jul 24 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1240	2443350.11	1977 Jul 25 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1241	2443350.11	1977 Jul 25 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1242	2443350.25	1977 Jul 25 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1243	2443350.27	1977 Jul 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1244	2443350.38	1977 Jul 25 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-Y274	2443350.47	1977 Jul 25 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1245	2443351.10	1977 Jul 26 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1246	2443351.24	1977 Jul 26 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1247	2443351.27	1977 Jul 26 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1248	2443351.27	1977 Jul 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1249	2443351.38	1977 Jul 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1250	2443351.50	1977 Jul 27 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1252	2443352.10	1977 Jul 27 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1253	2443352.10	1977 Jul 27 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y278	2443352.26	1977 Jul 27 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1255	2443352.27	1977 Jul 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1256	2443352.27	1977 Jul 27 1830:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1258	2443352.35	1977 Jul 27 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1260	2443352.38	1977 Jul 27 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1261	2443352.39	1977 Jul 27 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1262	2443352.41	1977 Jul 27 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y279	2443352.47	1977 Jul 27 2318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1263	2443352.50	1977 Jul 28 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1264	2443353.10	1977 Jul 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1265	2443353.26	1977 Jul 28 1819:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1266	2443353.31	1977 Jul 28 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1267	2443353.38	1977 Jul 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1268	2443353.43	1977 Jul 28 2217:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y280	2443353.47	1977 Jul 28 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y281	2443353.88	1977 Jul 29 0904:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1270	2443354.10	1977 Jul 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1271	2443354.13	1977 Jul 29 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1273	2443354.31	1977 Jul 29 1932:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1275	2443354.38	1977 Jul 29 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1276	2443354.41	1977 Jul 29 2153:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1277	2443354.47	1977 Jul 29 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1278	2443354.50	1977 Jul 30 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1279	2443355.09	1977 Jul 30 1415:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1280	2443355.26	1977 Jul 30 1815:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1281	2443355.42	1977 Jul 30 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1282	2443355.47	1977 Jul 30 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1287	2443356.11	1977 Jul 31 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1288	2443356.29	1977 Jul 31 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1289	2443356.39	1977 Jul 31 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1290	2443356.47	1977 Jul 31 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1291	2443357.11	1977 Aug 1 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1292	2443357.12	1977 Aug 1 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1293	2443357.24	1977 Aug 1 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1294	2443357.25	1977 Aug 1 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1295	2443357.27	1977 Aug 1 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1296	2443357.40	1977 Aug 1 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1297	2443357.42	1977 Aug 1 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y282	2443357.47	1977 Aug 1 2318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1298	2443358.11	1977 Aug 2 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1299	2443358.21	1977 Aug 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1300	2443358.25	1977 Aug 2 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1301	2443358.38	1977 Aug 2 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1302	2443358.48	1977 Aug 2 2337:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1303	2443358.50	1977 Aug 3 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1304	2443359.12	1977 Aug 3 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y287	2443359.23	1977 Aug 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1306	2443359.23	1977 Aug 3 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1307	2443359.24	1977 Aug 3 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y288	2443359.27	1977 Aug 3 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1308	2443359.29	1977 Aug 3 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y289	2443359.39	1977 Aug 3 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1310	2443359.43	1977 Aug 3 2219:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y290	2443359.47	1977 Aug 3 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1311	2443359.52	1977 Aug 4 0024:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1312	2443360.11	1977 Aug 4 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1313	2443360.23	1977 Aug 4 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1314	2443360.34	1977 Aug 4 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1315	2443360.50	1977 Aug 5 0000:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1316	2443361.10	1977 Aug 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1317	2443361.11	1977 Aug 5 1438:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1319	2443361.21	1977 Aug 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1320	2443361.25	1977 Aug 5 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1321	2443361.25	1977 Aug 5 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1323	2443361.41	1977 Aug 5 2148:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1324	2443361.48	1977 Aug 5 2326:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1325	2443362.10	1977 Aug 6 1421:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1326	2443362.21	1977 Aug 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1327	2443362.47	1977 Aug 6 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1328	2443363.28	1977 Aug 7 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1329	2443363.47	1977 Aug 7 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1331	2443364.10	1977 Aug 8 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1332	2443364.12	1977 Aug 8 1453:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1333	2443364.17	1977 Aug 8 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1334	2443364.21	1977 Aug 8 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1335	2443364.27	1977 Aug 8 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1336	2443364.47	1977 Aug 8 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-A38	2443364.54	1977 Aug 9 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1337	2443365.11	1977 Aug 9 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1338	2443365.24	1977 Aug 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1339	2443365.27	1977 Aug 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1340	2443365.48	1977 Aug 9 2326:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1343	2443366.10	1977 Aug 10 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1344	2443366.21	1977 Aug 10 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y295	2443366.21	1977 Aug 10 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1345	2443366.22	1977 Aug 10 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1346	2443366.25	1977 Aug 10 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y296	2443366.30	1977 Aug 10 1911:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1348	2443366.47	1977 Aug 10 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1349	2443367.39	1977 Aug 11 2122:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1351	2443368.21	1977 Aug 12 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1352	2443368.24	1977 Aug 12 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1353	2443368.27	1977 Aug 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1354	2443368.31	1977 Aug 12 1926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1356	2443368.39	1977 Aug 12 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1357	2443371.15	1977 Aug 15 1536:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1358	2443371.18	1977 Aug 15 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1360	2443371.21	1977 Aug 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1361	2443371.34	1977 Aug 15 2008:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1362	2443371.37	1977 Aug 15 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y298	2443371.46	1977 Aug 15 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1365	2443373.15	1977 Aug 17 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1366	2443373.16	1977 Aug 17 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1369	2443373.21	1977 Aug 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1370	2443373.22	1977 Aug 17 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y302	2443373.25	1977 Aug 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1373	2443373.37	1977 Aug 17 2048:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1375	2443373.39	1977 Aug 17 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1376	2443374.21	1977 Aug 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1377	2443375.10	1977 Aug 19 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1378	2443375.20	1977 Aug 19 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1381	2443375.38	1977 Aug 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1382	2443375.38	1977 Aug 19 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1383	2443378.09	1977 Aug 22 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1385	2443378.22	1977 Aug 22 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1386	2443378.25	1977 Aug 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1387	2443378.28	1977 Aug 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1388	2443378.36	1977 Aug 22 2032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1389	2443378.38	1977 Aug 22 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1392	2443380.11	1977 Aug 24 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1393	2443380.15	1977 Aug 24 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1394	2443380.16	1977 Aug 24 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1395	2443380.22	1977 Aug 24 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1396	2443380.28	1977 Aug 24 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y308	2443380.30	1977 Aug 24 1918:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1397	2443380.31	1977 Aug 24 1929:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1398	2443380.40	1977 Aug 24 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1399	2443380.47	1977 Aug 24 2318:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1400	2443381.17	1977 Aug 25 1610:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1401	2443381.40	1977 Aug 25 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1403	2443382.14	1977 Aug 26 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1404	2443382.15	1977 Aug 26 1534:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1406	2443382.27	1977 Aug 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1407	2443382.28	1977 Aug 26 1848:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y310	2443382.38	1977 Aug 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1409	2443382.45	1977 Aug 26 2244:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1411	2443385.13	1977 Aug 29 1509:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1412	2443385.15	1977 Aug 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1413	2443385.24	1977 Aug 29 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1414	2443385.24	1977 Aug 29 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1415	2443385.25	1977 Aug 29 1754:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1416	2443385.31	1977 Aug 29 1930:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1417	2443385.38	1977 Aug 29 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1418	2443385.38	1977 Aug 29 2102:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1419	2443385.40	1977 Aug 29 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1421	2443387.11	1977 Aug 31 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1422	2443387.12	1977 Aug 31 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1423	2443387.14	1977 Aug 31 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1425	2443387.21	1977 Aug 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y315	2443387.25	1977 Aug 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1426	2443387.26	1977 Aug 31 1810:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y316	2443387.39	1977 Aug 31 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1428	2443388.35	1977 Sep 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y317	2443388.40	1977 Sep 1 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1429	2443388.41	1977 Sep 1 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1430	2443389.14	1977 Sep 2 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y318	2443389.15	1977 Sep 2 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1432	2443389.21	1977 Sep 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1433	2443389.25	1977 Sep 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1434	2443389.77	1977 Sep 3 0633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1435	2443390.09	1977 Sep 3 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y319	2443390.22	1977 Sep 3 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1436	2443393.20	1977 Sep 6 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1437	2443393.28	1977 Sep 6 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1438	2443393.33	1977 Sep 6 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1439	2443393.38	1977 Sep 6 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1440	2443393.42	1977 Sep 6 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1442	2443394.11	1977 Sep 7 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A39	2443394.16	1977 Sep 7 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1444	2443394.21	1977 Sep 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y323	2443394.25	1977 Sep 7 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1445	2443394.26	1977 Sep 7 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1446	2443394.26	1977 Sep 7 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1447	2443394.55	1977 Sep 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1448	2443395.25	1977 Sep 8 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1449	2443396.11	1977 Sep 9 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1451	2443396.21	1977 Sep 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1452	2443396.25	1977 Sep 9 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A40	2443396.27	1977 Sep 9 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1453	2443396.39	1977 Sep 9 2125:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1454	2443396.40	1977 Sep 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1455	2443396.41	1977 Sep 9 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1456	2443399.17	1977 Sep 12 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1457	2443399.21	1977 Sep 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1458	2443399.37	1977 Sep 12 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1459	2443399.55	1977 Sep 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1460	2443400.17	1977 Sep 13 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1462	2443401.08	1977 Sep 14 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1464	2443401.15	1977 Sep 14 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1465	2443401.15	1977 Sep 14 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y327	2443401.25	1977 Sep 14 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1466	2443401.25	1977 Sep 14 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y328	2443401.26	1977 Sep 14 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1468	2443401.27	1977 Sep 14 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1469	2443401.35	1977 Sep 14 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1470	2443401.40	1977 Sep 14 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1471	2443401.41	1977 Sep 14 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1472	2443403.10	1977 Sep 16 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1473	2443403.12	1977 Sep 16 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1474	2443403.14	1977 Sep 16 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1476	2443403.25	1977 Sep 16 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1477	2443403.33	1977 Sep 16 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y329	2443403.38	1977 Sep 16 2103:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1478	2443403.39	1977 Sep 16 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y330	2443403.60	1977 Sep 17 0221:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1479	2443406.10	1977 Sep 19 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1480	2443406.11	1977 Sep 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1481	2443406.16	1977 Sep 19 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1482	2443406.19	1977 Sep 19 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1484	2443406.28	1977 Sep 19 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1485	2443406.33	1977 Sep 19 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1486	2443406.34	1977 Sep 19 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1487	2443407.25	1977 Sep 20 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1488	2443408.10	1977 Sep 21 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1489	2443408.11	1977 Sep 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1490	2443408.15	1977 Sep 21 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1493	2443408.21	1977 Sep 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y333	2443408.25	1977 Sep 21 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1495	2443408.26	1977 Sep 21 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1496	2443408.39	1977 Sep 21 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1497	2443408.39	1977 Sep 21 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1498	2443408.55	1977 Sep 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1500	2443409.26	1977 Sep 22 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1501	2443409.40	1977 Sep 22 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1502	2443409.42	1977 Sep 22 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y334	2443410.04	1977 Sep 23 1256:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1503	2443410.08	1977 Sep 23 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1504	2443410.09	1977 Sep 23 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1506	2443410.12	1977 Sep 23 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1507	2443410.15	1977 Sep 23 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1508	2443410.21	1977 Sep 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1509	2443410.25	1977 Sep 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1510	2443411.21	1977 Sep 24 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1511	2443412.21	1977 Sep 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1512	2443413.09	1977 Sep 26 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1513	2443413.16	1977 Sep 26 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1514	2443413.17	1977 Sep 26 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1516	2443413.20	1977 Sep 26 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1517	2443413.21	1977 Sep 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1518	2443413.37	1977 Sep 26 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1519	2443414.25	1977 Sep 27 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1520	2443414.33	1977 Sep 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1521	2443414.43	1977 Sep 27 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1523	2443415.08	1977 Sep 28 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1526	2443415.20	1977 Sep 28 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1527	2443415.21	1977 Sep 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1528	2443415.23	1977 Sep 28 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1529	2443415.28	1977 Sep 28 1844:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y340	2443415.35	1977 Sep 28 2017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1530	2443415.35	1977 Sep 28 2026:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y341	2443415.35	1977 Sep 28 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1531	2443415.37	1977 Sep 28 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1532	2443416.25	1977 Sep 29 1807:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1533	2443416.31	1977 Sep 29 1930:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1534	2443416.43	1977 Sep 29 2219:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1537	2443416.59	1977 Sep 30 0210:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1538	2443417.04	1977 Sep 30 1301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1539	2443417.11	1977 Sep 30 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1540	2443417.15	1977 Sep 30 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1542	2443417.20	1977 Sep 30 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y344	2443417.22	1977 Sep 30 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1543	2443417.24	1977 Sep 30 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1544	2443417.25	1977 Sep 30 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1545	2443417.33	1977 Sep 30 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1546	2443417.33	1977 Sep 30 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1547	2443420.12	1977 Oct 3 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1548	2443420.13	1977 Oct 3 1504:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1549	2443420.22	1977 Oct 3 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1550	2443420.28	1977 Oct 3 1846:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1551	2443420.38	1977 Oct 3 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1552	2443420.52	1977 Oct 4 0032:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1553	2443421.25	1977 Oct 4 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1554	2443422.12	1977 Oct 5 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1555	2443422.14	1977 Oct 5 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1557	2443422.16	1977 Oct 5 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1559	2443422.21	1977 Oct 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y350	2443422.33	1977 Oct 5 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A41	2443422.33	1977 Oct 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1560	2443422.35	1977 Oct 5 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1561	2443422.41	1977 Oct 5 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1562	2443424.14	1977 Oct 7 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1563	2443424.17	1977 Oct 7 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1565	2443424.21	1977 Oct 7 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1566	2443424.38	1977 Oct 7 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1567	2443424.38	1977 Oct 7 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1568	2443424.57	1977 Oct 8 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1571	2443427.17	1977 Oct 10 1607:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1572	2443428.21	1977 Oct 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1573	2443428.33	1977 Oct 11 1954:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1574	2443428.38	1977 Oct 11 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1575	2443428.38	1977 Oct 11 2100:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1576	2443428.56	1977 Oct 12 0127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1577	2443429.15	1977 Oct 12 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1578	2443429.16	1977 Oct 12 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1581	2443429.21	1977 Oct 12 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y358	2443429.22	1977 Oct 12 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1582	2443429.23	1977 Oct 12 1725:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y359	2443429.26	1977 Oct 12 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y360	2443429.39	1977 Oct 12 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1583	2443429.41	1977 Oct 12 2151:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1584	2443429.56	1977 Oct 13 0121:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1586	2443430.18	1977 Oct 13 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1587	2443430.33	1977 Oct 13 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1588	2443430.41	1977 Oct 13 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1589	2443431.14	1977 Oct 14 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1590	2443431.21	1977 Oct 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1591	2443431.36	1977 Oct 14 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1594	2443434.16	1977 Oct 17 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1595	2443434.19	1977 Oct 17 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1596	2443434.21	1977 Oct 17 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1597	2443434.28	1977 Oct 17 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1598	2443434.42	1977 Oct 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1599	2443434.42	1977 Oct 17 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1600	2443434.56	1977 Oct 18 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1602	2443436.10	1977 Oct 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1605	2443436.21	1977 Oct 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y365	2443436.23	1977 Oct 19 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1606	2443436.24	1977 Oct 19 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1607	2443436.25	1977 Oct 19 1800:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1608	2443436.26	1977 Oct 19 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y366	2443436.37	1977 Oct 19 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1609	2443436.39	1977 Oct 19 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1610	2443436.39	1977 Oct 19 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A42	2443436.53	1977 Oct 20 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1612	2443436.55	1977 Oct 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1614	2443437.12	1977 Oct 20 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1615	2443437.25	1977 Oct 20 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1617	2443438.15	1977 Oct 21 1529:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1618	2443438.15	1977 Oct 21 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1619	2443438.21	1977 Oct 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1620	2443438.23	1977 Oct 21 1736:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1622	2443438.31	1977 Oct 21 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1623	2443438.33	1977 Oct 21 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1626	2443441.11	1977 Oct 24 1443:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A43	2443441.26	1977 Oct 24 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1627	2443442.14	1977 Oct 25 1526:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1628	2443442.21	1977 Oct 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1629	2443442.27	1977 Oct 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1630	2443442.35	1977 Oct 25 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1631	2443442.59	1977 Oct 26 0212:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1632	2443443.09	1977 Oct 26 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1633	2443443.13	1977 Oct 26 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1634	2443443.14	1977 Oct 26 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1636	2443443.24	1977 Oct 26 1749:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y374	2443443.30	1977 Oct 26 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1637	2443443.31	1977 Oct 26 1924:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y375	2443443.31	1977 Oct 26 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1638	2443443.32	1977 Oct 26 1936:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y376	2443443.34	1977 Oct 26 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y377	2443443.35	1977 Oct 26 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y378	2443443.38	1977 Oct 26 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1639	2443443.39	1977 Oct 26 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1641	2443444.14	1977 Oct 27 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1642	2443445.15	1977 Oct 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1643	2443445.17	1977 Oct 28 1601:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1644	2443445.18	1977 Oct 28 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1646	2443445.19	1977 Oct 28 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1647	2443445.21	1977 Oct 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A44	2443445.53	1977 Oct 29 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1648	2443445.56	1977 Oct 29 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1654	2443448.13	1977 Oct 31 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1656	2443448.19	1977 Oct 31 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1657	2443448.21	1977 Oct 31 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1658	2443448.21	1977 Oct 31 1707:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1659	2443448.25	1977 Oct 31 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1660	2443448.35	1977 Oct 31 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1661	2443449.34	1977 Nov 1 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1662	2443449.42	1977 Nov 1 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1663	2443450.12	1977 Nov 2 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1664	2443450.15	1977 Nov 2 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1666	2443450.18	1977 Nov 2 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1668	2443450.21	1977 Nov 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y384	2443450.30	1977 Nov 2 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y385	2443450.33	1977 Nov 2 1952:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1669	2443450.35	1977 Nov 2 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1670	2443450.38	1977 Nov 2 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1671	2443450.57	1977 Nov 3 0146:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1672	2443451.39	1977 Nov 3 2123:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1673	2443451.44	1977 Nov 3 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1674	2443452.19	1977 Nov 4 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y386	2443452.33	1977 Nov 4 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A45	2443452.34	1977 Nov 4 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y387	2443452.38	1977 Nov 4 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y388	2443452.40	1977 Nov 4 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1676	2443452.41	1977 Nov 4 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y389	2443452.42	1977 Nov 4 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y390	2443452.46	1977 Nov 4 2300:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1677	2443452.50	1977 Nov 5 0000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y391	2443452.52	1977 Nov 5 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1678	2443452.54	1977 Nov 5 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1679	2443452.55	1977 Nov 5 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y392	2443452.67	1977 Nov 5 0359:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y393	2443452.67	1977 Nov 5 0409:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y394	2443452.79	1977 Nov 5 0700:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y395	2443452.83	1977 Nov 5 0800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y396	2443452.92	1977 Nov 5 0959:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y397	2443452.96	1977 Nov 5 1100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1680	2443453.01	1977 Nov 5 1214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y398	2443453.04	1977 Nov 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1681	2443453.05	1977 Nov 5 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y400	2443453.17	1977 Nov 5 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y401	2443453.17	1977 Nov 5 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y402	2443453.29	1977 Nov 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y403	2443453.33	1977 Nov 5 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y404	2443453.46	1977 Nov 5 2300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1682	2443455.16	1977 Nov 7 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1684	2443455.21	1977 Nov 7 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1685	2443455.22	1977 Nov 7 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1686	2443455.22	1977 Nov 7 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1687	2443455.26	1977 Nov 7 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1688	2443455.35	1977 Nov 7 2026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1689	2443455.41	1977 Nov 7 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1690	2443455.55	1977 Nov 8 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A46	2443456.55	1977 Nov 9 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1693	2443457.14	1977 Nov 9 1521:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1694	2443457.15	1977 Nov 9 1533:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1696	2443457.19	1977 Nov 9 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1697	2443457.20	1977 Nov 9 1652:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1699	2443457.20	1977 Nov 9 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y410	2443457.21	1977 Nov 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1700	2443457.22	1977 Nov 9 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1701	2443457.22	1977 Nov 9 1715:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y411	2443457.25	1977 Nov 9 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y412	2443457.25	1977 Nov 9 1802:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1702	2443457.39	1977 Nov 9 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y414	2443457.40	1977 Nov 9 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1703	2443457.67	1977 Nov 10 0404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1704	2443458.15	1977 Nov 10 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1706	2443458.29	1977 Nov 10 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1707	2443459.09	1977 Nov 11 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1708	2443459.12	1977 Nov 11 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1709	2443459.31	1977 Nov 11 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1710	2443459.33	1977 Nov 11 2002:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1711	2443459.79	1977 Nov 12 0659:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1712	2443460.73	1977 Nov 13 0530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1713	2443460.93	1977 Nov 13 1019:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1714	2443461.03	1977 Nov 13 1245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1715	2443462.19	1977 Nov 14 1630:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1716	2443462.20	1977 Nov 14 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1717	2443462.21	1977 Nov 14 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1719	2443462.25	1977 Nov 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1720	2443462.33	1977 Nov 14 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1721	2443462.43	1977 Nov 14 2212:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-A47	2443462.55	1977 Nov 15 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1722	2443462.90	1977 Nov 15 0940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1724	2443463.17	1977 Nov 15 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1726	2443464.09	1977 Nov 16 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1727	2443464.13	1977 Nov 16 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y421	2443464.17	1977 Nov 16 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1730	2443464.17	1977 Nov 16 1610:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1731	2443464.18	1977 Nov 16 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y422	2443464.21	1977 Nov 16 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y423	2443464.21	1977 Nov 16 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y424	2443464.21	1977 Nov 16 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1735	2443464.30	1977 Nov 16 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1736	2443464.39	1977 Nov 16 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1737	2443464.50	1977 Nov 16 2356:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1738	2443464.57	1977 Nov 17 0144:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1739	2443464.94	1977 Nov 17 1030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1741	2443465.21	1977 Nov 17 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1742	2443465.25	1977 Nov 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1743	2443465.41	1977 Nov 17 2152:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1744	2443466.07	1977 Nov 18 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1745	2443466.16	1977 Nov 18 1544:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1746	2443466.18	1977 Nov 18 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1747	2443466.21	1977 Nov 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1748	2443466.30	1977 Nov 18 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1749	2443466.93	1977 Nov 19 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1750	2443469.13	1977 Nov 21 1512:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1751	2443469.19	1977 Nov 21 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1752	2443469.20	1977 Nov 21 1654:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1753	2443469.21	1977 Nov 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1754	2443469.34	1977 Nov 21 2004:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1756	2443470.37	1977 Nov 22 2052:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1757	2443470.42	1977 Nov 22 2204:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1758	2443470.43	1977 Nov 22 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1759	2443471.16	1977 Nov 23 1545:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1760	2443471.20	1977 Nov 23 1646:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1761	2443471.20	1977 Nov 23 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1763	2443471.23	1977 Nov 23 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y434	2443471.25	1977 Nov 23 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1764	2443471.26	1977 Nov 23 1810:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y435	2443471.29	1977 Nov 23 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y436	2443471.29	1977 Nov 23 1902:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y437	2443471.33	1977 Nov 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1765	2443471.35	1977 Nov 23 2025:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1766	2443471.57	1977 Nov 24 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1767	2443471.59	1977 Nov 24 0215:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1768	2443473.12	1977 Nov 25 1449:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1770	2443473.25	1977 Nov 25 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1771	2443473.56	1977 Nov 26 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1774	2443476.11	1977 Nov 28 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1775	2443476.20	1977 Nov 28 1642:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1778	2443476.21	1977 Nov 28 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1780	2443476.38	1977 Nov 28 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1781	2443476.38	1977 Nov 28 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1782	2443476.57	1977 Nov 29 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1785	2443477.21	1977 Nov 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1786	2443477.50	1977 Nov 29 2359:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1795	2443478.14	1977 Nov 30 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y448	2443478.17	1977 Nov 30 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y449	2443478.19	1977 Nov 30 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1797	2443478.19	1977 Nov 30 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1798	2443478.20	1977 Nov 30 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1799	2443478.21	1977 Nov 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y450	2443478.32	1977 Nov 30 1937:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1800	2443478.32	1977 Nov 30 1947:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W1801	2443478.37	1977 Nov 30 2049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y451	2443478.38	1977 Nov 30 2110:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1802	2443478.39	1977 Nov 30 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y452	2443478.42	1977 Nov 30 2209:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1803	2443479.27	1977 Dec 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1804	2443479.29	1977 Dec 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1805	2443479.35	1977 Dec 1 2022:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1808	2443480.19	1977 Dec 2 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1809	2443480.22	1977 Dec 2 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1810	2443480.33	1977 Dec 2 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1811	2443480.36	1977 Dec 2 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1812	2443480.41	1977 Dec 2 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1813	2443480.57	1977 Dec 3 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1814	2443480.61	1977 Dec 3 0232:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1815	2443483.11	1977 Dec 5 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1816	2443483.19	1977 Dec 5 1631:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1818	2443483.21	1977 Dec 5 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1819	2443483.22	1977 Dec 5 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1820	2443483.26	1977 Dec 5 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1821	2443483.40	1977 Dec 5 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1822	2443484.19	1977 Dec 6 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1824	2443484.33	1977 Dec 6 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1827	2443485.14	1977 Dec 7 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y460	2443485.19	1977 Dec 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1829	2443485.19	1977 Dec 7 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1830	2443485.19	1977 Dec 7 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1831	2443485.20	1977 Dec 7 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1832	2443485.20	1977 Dec 7 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1833	2443485.29	1977 Dec 7 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1834	2443485.33	1977 Dec 7 1953:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1835	2443486.07	1977 Dec 8 1340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1836	2443486.25	1977 Dec 8 1755:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1837	2443486.41	1977 Dec 8 2145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1838	2443487.15	1977 Dec 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1840	2443487.21	1977 Dec 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1841	2443487.29	1977 Dec 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1842	2443487.33	1977 Dec 9 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1843	2443490.16	1977 Dec 12 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1844	2443490.17	1977 Dec 12 1600:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1846	2443490.20	1977 Dec 12 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1847	2443490.22	1977 Dec 12 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1848	2443490.22	1977 Dec 12 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1849	2443490.36	1977 Dec 12 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1851	2443491.29	1977 Dec 13 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1852	2443491.33	1977 Dec 13 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1853	2443491.34	1977 Dec 13 2006:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1854	2443491.43	1977 Dec 13 2218:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1857	2443492.13	1977 Dec 14 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1858	2443492.18	1977 Dec 14 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1859	2443492.18	1977 Dec 14 1619:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1861	2443492.21	1977 Dec 14 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1863	2443492.25	1977 Dec 14 1807:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y469	2443492.29	1977 Dec 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1864	2443492.30	1977 Dec 14 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1865	2443492.36	1977 Dec 14 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1866	2443492.59	1977 Dec 15 0206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1867	2443493.15	1977 Dec 15 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1868	2443493.17	1977 Dec 15 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1870	2443493.26	1977 Dec 15 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1871	2443493.42	1977 Dec 15 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1872	2443493.49	1977 Dec 15 2349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1873	2443494.19	1977 Dec 16 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1874	2443494.21	1977 Dec 16 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1877	2443494.29	1977 Dec 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1878	2443494.33	1977 Dec 16 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1879	2443497.21	1977 Dec 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1880	2443497.22	1977 Dec 19 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1881	2443497.26	1977 Dec 19 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1882	2443497.55	1977 Dec 20 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1883	2443498.10	1977 Dec 20 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1887	2443499.13	1977 Dec 21 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1888	2443499.13	1977 Dec 21 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1889	2443499.21	1977 Dec 21 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y479	2443499.25	1977 Dec 21 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1891	2443499.25	1977 Dec 21 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1892	2443499.26	1977 Dec 21 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1893	2443499.39	1977 Dec 21 2121:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1894	2443499.46	1977 Dec 21 2302:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1895	2443500.18	1977 Dec 22 1622:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1897	2443501.10	1977 Dec 23 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1898	2443501.11	1977 Dec 23 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1900	2443501.21	1977 Dec 23 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1901	2443501.26	1977 Dec 23 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1902	2443501.55	1977 Dec 24 0115:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1903	2443505.57	1977 Dec 28 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-Y490	2443506.25	1977 Dec 28 1804:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-A52	2443506.26	1977 Dec 28 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1906	2443507.40	1977 Dec 29 2132:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1907	2443508.10	1977 Dec 30 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1908	2443508.17	1977 Dec 30 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W1909	2443508.19	1977 Dec 30 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W996	2443777.11	1978 Sep 25 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W997	2443777.20	1978 Sep 25 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W998	2443777.21	1978 Sep 25 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W999	2443777.25	1978 Sep 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1000	2443777.27	1978 Sep 25 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1001	2443777.39	1978 Sep 25 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1002	2443777.42	1978 Sep 25 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1004	2443779.10	1978 Sep 27 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1006	2443779.20	1978 Sep 27 1643:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y361	2443779.20	1978 Sep 27 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y362	2443779.21	1978 Sep 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1007	2443779.22	1978 Sep 27 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1008	2443779.22	1978 Sep 27 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1009	2443779.25	1978 Sep 27 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y363	2443779.29	1978 Sep 27 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y364	2443779.30	1978 Sep 27 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1010	2443779.31	1978 Sep 27 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1011	2443779.51	1978 Sep 28 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1013	2443781.12	1978 Sep 29 1454:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1015	2443781.21	1978 Sep 29 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1016	2443781.22	1978 Sep 29 1722:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1017	2443781.23	1978 Sep 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1018	2443781.27	1978 Sep 29 1832:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1022	2443781.55	1978 Sep 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1023	2443784.15	1978 Oct 2 1532:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1024	2443784.16	1978 Oct 2 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1026	2443784.21	1978 Oct 2 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1027	2443784.25	1978 Oct 2 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1028	2443784.26	1978 Oct 2 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1029	2443784.55	1978 Oct 3 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y368	2443786.09	1978 Oct 4 1414:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1030	2443786.14	1978 Oct 4 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1031	2443786.18	1978 Oct 4 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1032	2443786.21	1978 Oct 4 1708:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1033	2443786.26	1978 Oct 4 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y369	2443786.31	1978 Oct 4 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1034	2443786.31	1978 Oct 4 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1035	2443786.34	1978 Oct 4 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1036	2443786.48	1978 Oct 4 2336:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1038	2443788.18	1978 Oct 6 1617:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1039	2443788.21	1978 Oct 6 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1040	2443788.26	1978 Oct 6 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1041	2443788.55	1978 Oct 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1042	2443791.13	1978 Oct 9 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1043	2443792.22	1978 Oct 10 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1044	2443792.25	1978 Oct 10 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A50	2443792.36	1978 Oct 10 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1045	2443792.39	1978 Oct 10 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1047	2443793.10	1978 Oct 11 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1048	2443793.12	1978 Oct 11 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1049	2443793.12	1978 Oct 11 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y377	2443793.17	1978 Oct 11 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1050	2443793.18	1978 Oct 11 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1051	2443793.19	1978 Oct 11 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1052	2443793.21	1978 Oct 11 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1053	2443793.30	1978 Oct 11 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1054	2443793.39	1978 Oct 11 2122:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y378	2443793.40	1978 Oct 11 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1055	2443793.42	1978 Oct 11 2207:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1056	2443795.09	1978 Oct 13 1404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1058	2443795.14	1978 Oct 13 1525:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1059	2443795.18	1978 Oct 13 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1060	2443795.22	1978 Oct 13 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1061	2443795.25	1978 Oct 13 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1062	2443795.36	1978 Oct 13 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1063	2443795.41	1978 Oct 13 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1064	2443798.08	1978 Oct 16 1352:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1065	2443798.13	1978 Oct 16 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1066	2443798.27	1978 Oct 16 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1067	2443798.32	1978 Oct 16 1935:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1068	2443798.38	1978 Oct 16 2113:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1069	2443798.40	1978 Oct 16 2137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1070	2443799.05	1978 Oct 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1071	2443800.10	1978 Oct 18 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y384	2443800.11	1978 Oct 18 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1072	2443800.13	1978 Oct 18 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1073	2443800.14	1978 Oct 18 1527:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y385	2443800.21	1978 Oct 18 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1075	2443800.22	1978 Oct 18 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1079	2443800.27	1978 Oct 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y386	2443800.38	1978 Oct 18 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W1080	2443800.41	1978 Oct 18 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y387	2443800.59	1978 Oct 19 0212:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1081	2443801.05	1978 Oct 19 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A51	2443801.12	1978 Oct 19 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1082	2443801.39	1978 Oct 19 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1083	2443802.15	1978 Oct 20 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1084	2443802.21	1978 Oct 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1085	2443802.21	1978 Oct 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y388	2443802.23	1978 Oct 20 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1086	2443802.29	1978 Oct 20 1901:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1087	2443802.38	1978 Oct 20 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1088	2443805.13	1978 Oct 23 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1089	2443805.21	1978 Oct 23 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1090	2443805.24	1978 Oct 23 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1091	2443805.26	1978 Oct 23 1811:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1092	2443806.40	1978 Oct 24 2133:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y392	2443807.11	1978 Oct 25 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1093	2443807.14	1978 Oct 25 1519:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1095	2443807.17	1978 Oct 25 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1096	2443807.21	1978 Oct 25 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y393	2443807.25	1978 Oct 25 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1097	2443807.26	1978 Oct 25 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1098	2443807.35	1978 Oct 25 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y394	2443807.39	1978 Oct 25 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1099	2443807.42	1978 Oct 25 2203:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1100	2443807.48	1978 Oct 25 2337:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1101	2443808.21	1978 Oct 26 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1103	2443809.14	1978 Oct 27 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1104	2443809.21	1978 Oct 27 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1105	2443809.27	1978 Oct 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1106	2443809.28	1978 Oct 27 1843:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1107	2443809.55	1978 Oct 28 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1108	2443812.12	1978 Oct 30 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1109	2443812.21	1978 Oct 30 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1110	2443812.30	1978 Oct 30 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1111	2443812.31	1978 Oct 30 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1118	2443812.55	1978 Oct 31 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1120	2443814.12	1978 Nov 1 1455:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y399	2443814.14	1978 Nov 1 1517:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1122	2443814.19	1978 Nov 1 1627:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y401	2443814.21	1978 Nov 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1123	2443814.21	1978 Nov 1 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y402	2443814.29	1978 Nov 1 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1124	2443814.30	1978 Nov 1 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1125	2443814.32	1978 Nov 1 1945:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1126	2443814.54	1978 Nov 2 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1129	2443816.11	1978 Nov 3 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1131	2443816.30	1978 Nov 3 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1132	2443816.31	1978 Nov 3 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1133	2443819.08	1978 Nov 6 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1134	2443819.09	1978 Nov 6 1409:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1136	2443819.22	1978 Nov 6 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1137	2443819.29	1978 Nov 6 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1138	2443819.40	1978 Nov 6 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y404	2443819.55	1978 Nov 7 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1141	2443821.12	1978 Nov 8 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1142	2443821.15	1978 Nov 8 1531:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y408	2443821.19	1978 Nov 8 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1143	2443821.20	1978 Nov 8 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1145	2443821.21	1978 Nov 8 1655:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1146	2443821.24	1978 Nov 8 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y409	2443821.40	1978 Nov 8 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1147	2443821.41	1978 Nov 8 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1148	2443821.47	1978 Nov 8 2314:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1149	2443822.21	1978 Nov 9 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1150	2443822.21	1978 Nov 9 1703:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A52	2443822.29	1978 Nov 9 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1154	2443823.16	1978 Nov 10 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1155	2443823.20	1978 Nov 10 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1156	2443826.13	1978 Nov 13 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1159	2443826.22	1978 Nov 13 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1160	2443826.28	1978 Nov 13 1849:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1161	2443827.08	1978 Nov 14 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1164	2443828.12	1978 Nov 15 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1166	2443828.21	1978 Nov 15 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y415	2443828.21	1978 Nov 15 1701:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1167	2443828.24	1978 Nov 15 1742:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y416	2443828.27	1978 Nov 15 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1168	2443828.28	1978 Nov 15 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y417	2443828.37	1978 Nov 15 2053:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1169	2443828.39	1978 Nov 15 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1170	2443828.47	1978 Nov 15 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1172	2443829.29	1978 Nov 16 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1173	2443829.56	1978 Nov 17 0124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1176	2443830.19	1978 Nov 17 1633:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1177	2443830.21	1978 Nov 17 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-Y418	2443830.27	1978 Nov 17 1827:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1178	2443830.29	1978 Nov 17 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1179	2443830.40	1978 Nov 17 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1180	2443830.44	1978 Nov 17 2226:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1184	2443833.09	1978 Nov 20 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1185	2443833.13	1978 Nov 20 1511:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1187	2443833.18	1978 Nov 20 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1188	2443833.19	1978 Nov 20 1632:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1189	2443833.21	1978 Nov 20 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1190	2443833.31	1978 Nov 20 1921:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1191	2443833.55	1978 Nov 21 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1194	2443835.08	1978 Nov 22 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1196	2443835.12	1978 Nov 22 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y422	2443835.13	1978 Nov 22 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1197	2443835.15	1978 Nov 22 1535:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1199	2443835.20	1978 Nov 22 1641:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1200	2443835.22	1978 Nov 22 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y423	2443835.33	1978 Nov 22 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1201	2443835.39	1978 Nov 22 2120:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1202	2443835.40	1978 Nov 22 2142:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1204	2443837.13	1978 Nov 24 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1205	2443837.18	1978 Nov 24 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1206	2443837.22	1978 Nov 24 1718:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1207	2443837.56	1978 Nov 25 0120:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1209	2443840.09	1978 Nov 27 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1210	2443840.14	1978 Nov 27 1523:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1212	2443840.22	1978 Nov 27 1717:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1213	2443840.30	1978 Nov 27 1909:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1214	2443840.34	1978 Nov 27 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1215	2443840.45	1978 Nov 27 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1216	2443840.66	1978 Nov 28 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y425	2443842.12	1978 Nov 29 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1221	2443842.23	1978 Nov 29 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1222	2443842.24	1978 Nov 29 1743:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y427	2443842.30	1978 Nov 29 1906:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1223	2443842.31	1978 Nov 29 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A54	2443842.40	1978 Nov 29 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1224	2443842.49	1978 Nov 29 2343:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1225	2443843.08	1978 Nov 30 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1227	2443843.40	1978 Nov 30 2140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1228	2443844.14	1978 Dec 1 1515:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1229	2443844.27	1978 Dec 1 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1231	2443844.33	1978 Dec 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1232	2443847.17	1978 Dec 4 1557:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1233	2443847.29	1978 Dec 4 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1234	2443847.38	1978 Dec 4 2101:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y430	2443847.55	1978 Dec 5 0118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1235	2443848.09	1978 Dec 5 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1236	2443848.22	1978 Dec 5 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1237	2443848.29	1978 Dec 5 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1238	2443848.29	1978 Dec 5 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y435	2443849.14	1978 Dec 6 1514:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1239	2443849.14	1978 Dec 6 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1240	2443849.15	1978 Dec 6 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y436	2443849.25	1978 Dec 6 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1242	2443849.26	1978 Dec 6 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y437	2443849.35	1978 Dec 6 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1243	2443849.36	1978 Dec 6 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1244	2443849.44	1978 Dec 6 2230:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1245	2443850.28	1978 Dec 7 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1246	2443850.29	1978 Dec 7 1854:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1248	2443850.41	1978 Dec 7 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1249	2443851.18	1978 Dec 8 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1251	2443851.34	1978 Dec 8 2012:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1252	2443851.40	1978 Dec 8 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1253	2443851.41	1978 Dec 8 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1254	2443851.46	1978 Dec 8 2303:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1255	2443854.13	1978 Dec 11 1508:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1257	2443854.33	1978 Dec 11 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1258	2443854.41	1978 Dec 11 2156:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1260	2443855.33	1978 Dec 12 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1261	2443855.38	1978 Dec 12 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1262	2443856.15	1978 Dec 13 1542:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1263	2443856.17	1978 Dec 13 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1264	2443856.31	1978 Dec 13 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1265	2443856.32	1978 Dec 13 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1266	2443856.33	1978 Dec 13 1955:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y442	2443856.40	1978 Dec 13 2133:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1267	2443856.43	1978 Dec 13 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1268	2443856.46	1978 Dec 13 2308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1269	2443857.29	1978 Dec 14 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1270	2443857.38	1978 Dec 14 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1271	2443857.70	1978 Dec 15 0441:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1273	2443858.12	1978 Dec 15 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1274	2443858.29	1978 Dec 15 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1276	2443858.38	1978 Dec 15 2109:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W1278	2443861.16	1978 Dec 18 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1279	2443861.22	1978 Dec 18 1721:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1280	2443861.36	1978 Dec 18 2033:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1281	2443862.27	1978 Dec 19 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1283	2443863.11	1978 Dec 20 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1286	2443863.19	1978 Dec 20 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1287	2443863.20	1978 Dec 20 1641:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y448	2443863.27	1978 Dec 20 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y449	2443863.29	1978 Dec 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1289	2443863.29	1978 Dec 20 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1290	2443863.30	1978 Dec 20 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1291	2443863.47	1978 Dec 20 2315:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1293	2443864.29	1978 Dec 21 1856:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1294	2443865.27	1978 Dec 22 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1295	2443865.31	1978 Dec 22 1922:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A57	2443865.40	1978 Dec 22 2134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-Y450	2443865.42	1978 Dec 22 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1296	2443870.27	1978 Dec 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-A58	2443870.28	1978 Dec 27 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1297	2443870.40	1978 Dec 27 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1978-W1298	2443872.28	1978 Dec 29 1840:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W25	2443876.32	1979 Jan 2 1944:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1003	2444101.26	1979 Aug 15 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1004	2444101.53	1979 Aug 16 0049:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y439	2444102.37	1979 Aug 16 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1005	2444102.39	1979 Aug 16 2118:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A37	2444102.53	1979 Aug 17 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1006	2444103.04	1979 Aug 17 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1007	2444103.06	1979 Aug 17 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1008	2444103.13	1979 Aug 17 1507:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1009	2444103.25	1979 Aug 17 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1010	2444103.28	1979 Aug 17 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1011	2444103.55	1979 Aug 18 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1012	2444104.67	1979 Aug 19 0403:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1013	2444106.05	1979 Aug 20 1310:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1014	2444106.06	1979 Aug 20 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1015	2444106.10	1979 Aug 20 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1016	2444106.15	1979 Aug 20 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1017	2444106.68	1979 Aug 21 0419:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1018	2444108.06	1979 Aug 22 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1019	2444108.07	1979 Aug 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1020	2444108.10	1979 Aug 22 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1021	2444108.10	1979 Aug 22 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1022	2444108.20	1979 Aug 22 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A38	2444108.25	1979 Aug 22 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1023	2444108.42	1979 Aug 22 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1024	2444108.49	1979 Aug 22 2348:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1025	2444109.33	1979 Aug 23 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1026	2444110.06	1979 Aug 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1027	2444110.07	1979 Aug 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1028	2444110.07	1979 Aug 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1029	2444110.15	1979 Aug 24 1540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1030	2444110.22	1979 Aug 24 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1031	2444110.55	1979 Aug 25 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1034	2444113.06	1979 Aug 27 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1035	2444113.08	1979 Aug 27 1349:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A39	2444113.13	1979 Aug 27 1511:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1037	2444113.23	1979 Aug 27 1724:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1038	2444113.27	1979 Aug 27 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1039	2444113.67	1979 Aug 28 0407:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1040	2444114.27	1979 Aug 28 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1041	2444114.36	1979 Aug 28 2035:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1042	2444114.61	1979 Aug 29 0245:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1043	2444114.66	1979 Aug 29 0345:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1044	2444114.67	1979 Aug 29 0357:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y457	2444115.10	1979 Aug 29 1417:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1045	2444115.10	1979 Aug 29 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y458	2444115.11	1979 Aug 29 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1046	2444115.11	1979 Aug 29 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1047	2444115.33	1979 Aug 29 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y460	2444115.44	1979 Aug 29 2227:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1048	2444115.45	1979 Aug 29 2248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1049	2444115.66	1979 Aug 30 0346:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1051	2444116.15	1979 Aug 30 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1052	2444116.51	1979 Aug 31 0009:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1053	2444117.06	1979 Aug 31 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1054	2444117.10	1979 Aug 31 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1055	2444117.19	1979 Aug 31 1634:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1056	2444117.23	1979 Aug 31 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1057	2444117.26	1979 Aug 31 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1058	2444117.41	1979 Aug 31 2154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1059	2444117.55	1979 Sep 1 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1060	2444117.75	1979 Sep 1 0606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1061	2444120.33	1979 Sep 3 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1062	2444121.37	1979 Sep 4 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1063	2444122.03	1979 Sep 5 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1064	2444122.06	1979 Sep 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1065	2444122.08	1979 Sep 5 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y463	2444122.09	1979 Sep 5 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1066	2444122.10	1979 Sep 5 1427:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1067	2444122.12	1979 Sep 5 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y464	2444122.19	1979 Sep 5 1626:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1068	2444122.21	1979 Sep 5 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1069	2444122.27	1979 Sep 5 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1070	2444122.46	1979 Sep 5 2301:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1071	2444123.53	1979 Sep 7 0040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1072	2444124.06	1979 Sep 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1073	2444124.06	1979 Sep 7 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1074	2444124.10	1979 Sep 7 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1075	2444124.11	1979 Sep 7 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1076	2444124.17	1979 Sep 7 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y467	2444124.21	1979 Sep 7 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1077	2444124.37	1979 Sep 7 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1078	2444124.62	1979 Sep 8 0253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1079	2444127.06	1979 Sep 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1080	2444127.07	1979 Sep 10 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1081	2444127.10	1979 Sep 10 1422:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1082	2444127.18	1979 Sep 10 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1083	2444127.19	1979 Sep 10 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1084	2444127.27	1979 Sep 10 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1085	2444127.62	1979 Sep 11 0249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1087	2444129.05	1979 Sep 12 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1088	2444129.06	1979 Sep 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1089	2444129.06	1979 Sep 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y472	2444129.09	1979 Sep 12 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y473	2444129.10	1979 Sep 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1090	2444129.11	1979 Sep 12 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1091	2444129.12	1979 Sep 12 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y475	2444129.25	1979 Sep 12 1756:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1092	2444129.26	1979 Sep 12 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1093	2444129.33	1979 Sep 12 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1094	2444129.36	1979 Sep 12 2045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1095	2444129.39	1979 Sep 12 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1096	2444129.46	1979 Sep 12 2258:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1097	2444129.83	1979 Sep 13 0800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1098	2444129.89	1979 Sep 13 0914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1099	2444129.93	1979 Sep 13 1017:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1100	2444130.00	1979 Sep 13 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1101	2444130.08	1979 Sep 13 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1102	2444130.18	1979 Sep 13 1614:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1104	2444131.07	1979 Sep 14 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1105	2444131.08	1979 Sep 14 1351:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1106	2444131.10	1979 Sep 14 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1107	2444131.12	1979 Sep 14 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1108	2444131.29	1979 Sep 14 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1109	2444131.53	1979 Sep 15 0045:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1110	2444131.55	1979 Sep 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1111	2444134.05	1979 Sep 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1112	2444134.08	1979 Sep 17 1353:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1113	2444134.12	1979 Sep 17 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1114	2444134.26	1979 Sep 17 1821:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A40	2444134.34	1979 Sep 17 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1115	2444134.59	1979 Sep 18 0212:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1116	2444135.19	1979 Sep 18 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1119	2444136.04	1979 Sep 19 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1120	2444136.10	1979 Sep 19 1425:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1121	2444136.11	1979 Sep 19 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1122	2444136.16	1979 Sep 19 1546:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1123	2444136.27	1979 Sep 19 1824:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1124	2444136.27	1979 Sep 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y482	2444136.28	1979 Sep 19 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y483	2444136.43	1979 Sep 19 2215:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1125	2444136.45	1979 Sep 19 2243:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1126	2444136.45	1979 Sep 19 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1127	2444137.24	1979 Sep 20 1738:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1128	2444138.06	1979 Sep 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1129	2444138.06	1979 Sep 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1130	2444138.11	1979 Sep 21 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1131	2444138.16	1979 Sep 21 1555:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1132	2444138.33	1979 Sep 21 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1133	2444138.55	1979 Sep 22 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1134	2444138.74	1979 Sep 22 0540:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1135	2444138.90	1979 Sep 22 0940:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1136	2444140.84	1979 Sep 24 0815:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1137	2444141.03	1979 Sep 24 1247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1138	2444141.04	1979 Sep 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1139	2444141.07	1979 Sep 24 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1140	2444141.11	1979 Sep 24 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1141	2444141.16	1979 Sep 24 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A42	2444141.39	1979 Sep 24 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1142	2444141.62	1979 Sep 25 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A43	2444142.33	1979 Sep 25 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1144	2444143.05	1979 Sep 26 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1145	2444143.06	1979 Sep 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y486	2444143.09	1979 Sep 26 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1147	2444143.11	1979 Sep 26 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1148	2444143.12	1979 Sep 26 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1149	2444143.15	1979 Sep 26 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1150	2444143.16	1979 Sep 26 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1151	2444143.28	1979 Sep 26 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1152	2444143.62	1979 Sep 27 0251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1153	2444144.52	1979 Sep 28 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1154	2444144.64	1979 Sep 28 0314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1155	2444145.05	1979 Sep 28 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1156	2444145.06	1979 Sep 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y487	2444145.10	1979 Sep 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1157	2444145.11	1979 Sep 28 1433:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1158	2444145.17	1979 Sep 28 1609:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1159	2444145.26	1979 Sep 28 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1160	2444145.43	1979 Sep 28 2221:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y488	2444145.55	1979 Sep 29 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1161	2444145.64	1979 Sep 29 0314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1162	2444148.05	1979 Oct 1 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1163	2444148.10	1979 Oct 1 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1164	2444148.11	1979 Oct 1 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1165	2444148.12	1979 Oct 1 1459:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1166	2444148.22	1979 Oct 1 1711:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1167	2444148.23	1979 Oct 1 1737:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1168	2444148.35	1979 Oct 1 2018:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1169	2444148.35	1979 Oct 1 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1170	2444148.57	1979 Oct 2 0137:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1171	2444149.27	1979 Oct 2 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1173	2444150.05	1979 Oct 3 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1174	2444150.06	1979 Oct 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y491	2444150.09	1979 Oct 3 1408:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1175	2444150.11	1979 Oct 3 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A44	2444150.15	1979 Oct 3 1543:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1176	2444150.16	1979 Oct 3 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1177	2444150.17	1979 Oct 3 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1178	2444150.18	1979 Oct 3 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1179	2444150.23	1979 Oct 3 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1180	2444150.27	1979 Oct 3 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1181	2444150.57	1979 Oct 4 0145:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1182	2444151.16	1979 Oct 4 1545:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1183	2444151.34	1979 Oct 4 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1184	2444151.67	1979 Oct 5 0410:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1185	2444152.03	1979 Oct 5 1248:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1186	2444152.07	1979 Oct 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1187	2444152.14	1979 Oct 5 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1188	2444152.38	1979 Oct 5 2104:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1189	2444152.68	1979 Oct 6 0423:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1190	2444155.06	1979 Oct 8 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1191	2444155.10	1979 Oct 8 1426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1192	2444155.12	1979 Oct 8 1451:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1193	2444155.18	1979 Oct 8 1618:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1194	2444156.17	1979 Oct 9 1559:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1195	2444156.37	1979 Oct 9 2056:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1196	2444156.52	1979 Oct 10 0033:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1198	2444157.06	1979 Oct 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1199	2444157.06	1979 Oct 10 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1200	2444157.08	1979 Oct 10 1354:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y495	2444157.10	1979 Oct 10 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1201	2444157.11	1979 Oct 10 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1202	2444157.14	1979 Oct 10 1518:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1203	2444157.39	1979 Oct 10 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1204	2444157.44	1979 Oct 10 2237:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1205	2444159.06	1979 Oct 12 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1206	2444159.19	1979 Oct 12 1629:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1207	2444159.24	1979 Oct 12 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1208	2444159.27	1979 Oct 12 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1209	2444159.55	1979 Oct 13 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1210	2444162.04	1979 Oct 15 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1211	2444162.07	1979 Oct 15 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1212	2444162.12	1979 Oct 15 1446:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1213	2444162.17	1979 Oct 15 1604:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1214	2444162.20	1979 Oct 15 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1215	2444162.35	1979 Oct 15 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1216	2444162.70	1979 Oct 16 0443:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1218	2444163.66	1979 Oct 17 0344:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1219	2444164.05	1979 Oct 17 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1220	2444164.06	1979 Oct 17 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1221	2444164.07	1979 Oct 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1222	2444164.11	1979 Oct 17 1436:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1223	2444164.15	1979 Oct 17 1533:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y500	2444164.36	1979 Oct 17 2043:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1224	2444164.45	1979 Oct 17 2247:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1225	2444166.05	1979 Oct 19 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1226	2444166.11	1979 Oct 19 1441:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1227	2444166.12	1979 Oct 19 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1228	2444166.21	1979 Oct 19 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1229	2444166.27	1979 Oct 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1230	2444166.27	1979 Oct 19 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1231	2444166.33	1979 Oct 19 1956:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1232	2444166.41	1979 Oct 19 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1233	2444166.52	1979 Oct 20 0030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1234	2444166.55	1979 Oct 20 0118:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1235	2444168.10	1979 Oct 21 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y502	2444168.29	1979 Oct 21 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1241	2444169.06	1979 Oct 22 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1242	2444169.07	1979 Oct 22 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1243	2444169.11	1979 Oct 22 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1244	2444169.16	1979 Oct 22 1551:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1245	2444169.23	1979 Oct 22 1732:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1246	2444169.28	1979 Oct 22 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1247	2444169.51	1979 Oct 23 0014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1248	2444170.34	1979 Oct 23 2015:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1250	2444170.69	1979 Oct 24 0426:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1251	2444171.00	1979 Oct 24 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1252	2444171.06	1979 Oct 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1253	2444171.06	1979 Oct 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1254	2444171.10	1979 Oct 24 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y506	2444171.10	1979 Oct 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1255	2444171.29	1979 Oct 24 1856:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1256	2444171.33	1979 Oct 24 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1257	2444171.67	1979 Oct 25 0401:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y507	2444172.09	1979 Oct 25 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1258	2444172.11	1979 Oct 25 1437:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1259	2444172.69	1979 Oct 26 0433:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1260	2444173.06	1979 Oct 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1261	2444173.08	1979 Oct 26 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1262	2444173.09	1979 Oct 26 1403:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1263	2444173.12	1979 Oct 26 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1264	2444173.27	1979 Oct 26 1822:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1265	2444173.27	1979 Oct 26 1830:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1266	2444173.29	1979 Oct 26 1858:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1267	2444173.38	1979 Oct 26 2111:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1268	2444176.07	1979 Oct 29 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1269	2444176.11	1979 Oct 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1270	2444176.14	1979 Oct 29 1522:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1271	2444176.15	1979 Oct 29 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1272	2444176.21	1979 Oct 29 1657:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1273	2444176.55	1979 Oct 30 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1274	2444178.05	1979 Oct 31 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1275	2444178.05	1979 Oct 31 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1276	2444178.13	1979 Oct 31 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1277	2444178.15	1979 Oct 31 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y511	2444178.21	1979 Oct 31 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y512	2444178.28	1979 Oct 31 1837:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1278	2444178.30	1979 Oct 31 1907:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1279	2444178.31	1979 Oct 31 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1280	2444178.48	1979 Oct 31 2334:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1281	2444179.00	1979 Nov 1 1200:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1282	2444179.05	1979 Nov 1 1315:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1286	2444179.14	1979 Nov 1 1520:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1288	2444179.32	1979 Nov 1 1942:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y513	2444179.33	1979 Nov 1 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1292	2444179.42	1979 Nov 1 2201:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1293	2444180.06	1979 Nov 2 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1294	2444180.07	1979 Nov 2 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1295	2444180.10	1979 Nov 2 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1296	2444180.12	1979 Nov 2 1447:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y516	2444180.15	1979 Nov 2 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1297	2444180.21	1979 Nov 2 1656:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1298	2444180.58	1979 Nov 3 0202:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1299	2444181.82	1979 Nov 4 0735:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1301	2444181.94	1979 Nov 4 1040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1302	2444181.95	1979 Nov 4 1053:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1303	2444183.07	1979 Nov 5 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1304	2444183.08	1979 Nov 5 1401:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1305	2444183.11	1979 Nov 5 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1306	2444183.20	1979 Nov 5 1651:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1307	2444183.21	1979 Nov 5 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1308	2444183.37	1979 Nov 5 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1309	2444183.55	1979 Nov 6 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1313	2444185.03	1979 Nov 7 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1314	2444185.05	1979 Nov 7 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1315	2444185.11	1979 Nov 7 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1316	2444185.13	1979 Nov 7 1506:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1317	2444185.15	1979 Nov 7 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y525	2444185.16	1979 Nov 7 1556:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1318	2444185.18	1979 Nov 7 1615:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1319	2444185.37	1979 Nov 7 2054:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1320	2444185.49	1979 Nov 7 2346:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y527	2444186.31	1979 Nov 8 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1321	2444186.50	1979 Nov 9 0002:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1322	2444187.08	1979 Nov 9 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1323	2444187.11	1979 Nov 9 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1324	2444187.15	1979 Nov 9 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1325	2444187.20	1979 Nov 9 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1326	2444187.24	1979 Nov 9 1740:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1327	2444187.38	1979 Nov 9 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1328	2444190.10	1979 Nov 12 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1330	2444191.20	1979 Nov 13 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1331	2444191.37	1979 Nov 13 2055:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1333	2444191.65	1979 Nov 14 0336:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1334	2444192.05	1979 Nov 14 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1336	2444192.10	1979 Nov 14 1424:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1337	2444192.20	1979 Nov 14 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y542	2444192.22	1979 Nov 14 1710:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1338	2444192.23	1979 Nov 14 1734:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1339	2444192.25	1979 Nov 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1341	2444192.45	1979 Nov 14 2251:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1343	2444194.06	1979 Nov 16 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1344	2444194.10	1979 Nov 16 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1345	2444194.13	1979 Nov 16 1500:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1346	2444194.16	1979 Nov 16 1549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1347	2444194.19	1979 Nov 16 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1348	2444194.32	1979 Nov 16 1938:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1349	2444194.52	1979 Nov 17 0026:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1350	2444197.06	1979 Nov 19 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1351	2444197.10	1979 Nov 19 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1352	2444197.11	1979 Nov 19 1440:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1353	2444198.65	1979 Nov 21 0340:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1355	2444199.06	1979 Nov 21 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1356	2444199.10	1979 Nov 21 1429:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1357	2444199.20	1979 Nov 21 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1358	2444199.22	1979 Nov 21 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y550	2444199.28	1979 Nov 21 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y551	2444199.29	1979 Nov 21 1903:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1359	2444199.31	1979 Nov 21 1919:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1360	2444199.31	1979 Nov 21 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1361	2444199.39	1979 Nov 21 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1362	2444199.63	1979 Nov 22 0301:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1363	2444201.20	1979 Nov 23 1647:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1364	2444201.51	1979 Nov 24 0020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1365	2444204.06	1979 Nov 26 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1366	2444204.07	1979 Nov 26 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1367	2444204.11	1979 Nov 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1368	2444204.12	1979 Nov 26 1448:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1369	2444204.34	1979 Nov 26 2003:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y555	2444205.33	1979 Nov 27 2000:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1370	2444206.06	1979 Nov 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1371	2444206.10	1979 Nov 28 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1372	2444206.12	1979 Nov 28 1500:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y559	2444206.15	1979 Nov 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1373	2444206.19	1979 Nov 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1374	2444206.22	1979 Nov 28 1712:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y561	2444206.39	1979 Nov 28 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1375	2444206.41	1979 Nov 28 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1376	2444206.45	1979 Nov 28 2254:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y564	2444207.17	1979 Nov 29 1603:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1377	2444207.18	1979 Nov 29 1625:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1378	2444207.67	1979 Nov 30 0404:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1380	2444208.06	1979 Nov 30 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1381	2444208.10	1979 Nov 30 1420:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1382	2444211.06	1979 Dec 3 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1383	2444211.10	1979 Dec 3 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1384	2444211.30	1979 Dec 3 1912:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1385	2444212.09	1979 Dec 4 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y568	2444212.15	1979 Dec 4 1537:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1386	2444212.17	1979 Dec 4 1606:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1388	2444212.28	1979 Dec 4 1845:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1390	2444213.04	1979 Dec 5 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1391	2444213.10	1979 Dec 5 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1392	2444213.11	1979 Dec 5 1432:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1393	2444213.21	1979 Dec 5 1658:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1394	2444213.22	1979 Dec 5 1715:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y572	2444213.28	1979 Dec 5 1845:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y573	2444213.35	1979 Dec 5 2026:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1395	2444213.37	1979 Dec 5 2058:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1396	2444213.45	1979 Dec 5 2252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y575	2444214.57	1979 Dec 7 0140:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1397	2444215.07	1979 Dec 7 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1398	2444215.11	1979 Dec 7 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1399	2444215.25	1979 Dec 7 1753:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1400	2444218.13	1979 Dec 10 1510:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1401	2444218.27	1979 Dec 10 1825:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y577	2444218.29	1979 Dec 10 1900:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1402	2444218.31	1979 Dec 10 1930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1403	2444219.54	1979 Dec 12 0059:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-W1406	2444220.09	1979 Dec 12 1410:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-A48	2444220.11	1979 Dec 12 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1407	2444220.11	1979 Dec 12 1442:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1409	2444220.24	1979 Dec 12 1745:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1410	2444220.35	1979 Dec 12 2021:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1411	2444220.39	1979 Dec 12 2117:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1412	2444220.45	1979 Dec 12 2245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1413	2444221.35	1979 Dec 13 2020:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y585	2444221.41	1979 Dec 13 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1414	2444222.11	1979 Dec 14 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1415	2444222.22	1979 Dec 14 1714:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1416	2444222.25	1979 Dec 14 1800:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1417	2444222.40	1979 Dec 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y588	2444222.55	1979 Dec 15 0114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1418	2444225.07	1979 Dec 17 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1419	2444225.10	1979 Dec 17 1426:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1420	2444225.11	1979 Dec 17 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1421	2444225.20	1979 Dec 17 1653:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1422	2444225.30	1979 Dec 17 1907:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1423	2444225.60	1979 Dec 18 0225:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1424	2444225.74	1979 Dec 18 0548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1425	2444226.23	1979 Dec 18 1729:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1426	2444226.35	1979 Dec 18 2030:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1428	2444226.63	1979 Dec 19 0308:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1429	2444226.74	1979 Dec 19 0548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1431	2444227.06	1979 Dec 19 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1432	2444227.10	1979 Dec 19 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1433	2444227.11	1979 Dec 19 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y593	2444227.29	1979 Dec 19 1851:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1434	2444227.30	1979 Dec 19 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1435	2444227.31	1979 Dec 19 1925:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y596	2444227.37	1979 Dec 19 2057:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1436	2444227.39	1979 Dec 19 2127:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1437	2444227.62	1979 Dec 20 0300:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1438	2444227.74	1979 Dec 20 0549:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1439	2444227.89	1979 Dec 20 0926:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y597	2444228.12	1979 Dec 20 1452:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1440	2444228.13	1979 Dec 20 1513:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1442	2444228.62	1979 Dec 21 0247:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1443	2444229.04	1979 Dec 21 1252:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1444	2444229.10	1979 Dec 21 1431:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1445	2444229.11	1979 Dec 21 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1446	2444229.28	1979 Dec 21 1847:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1450	2444232.12	1979 Dec 24 1456:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-Y602	2444234.11	1979 Dec 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1454	2444234.11	1979 Dec 26 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1455	2444234.14	1979 Dec 26 1522:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1456	2444234.49	1979 Dec 26 2347:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1457	2444236.06	1979 Dec 28 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1458	2444236.07	1979 Dec 28 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1459	2444236.11	1979 Dec 28 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1460	2444236.18	1979 Dec 28 1624:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1461	2444236.65	1979 Dec 29 0338:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1462	2444239.05	1979 Dec 31 1314:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1463	2444239.07	1979 Dec 31 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1979-W1464	2444239.11	1979 Dec 31 1437:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y01	2444239.60	1980 Jan 1 0231:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A40	2444544.44	1980 Oct 31 2229:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1016	2444546.89	1980 Nov 3 0918:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1017	2444547.19	1980 Nov 3 1640:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A41	2444547.45	1980 Nov 3 2249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1018	2444547.60	1980 Nov 4 0220:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1019	2444548.11	1980 Nov 4 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y459	2444549.13	1980 Nov 5 1502:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1020	2444549.22	1980 Nov 5 1719:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y460	2444549.30	1980 Nov 5 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1021	2444549.34	1980 Nov 5 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1022	2444549.40	1980 Nov 5 2131:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A43	2444549.42	1980 Nov 5 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1023	2444550.04	1980 Nov 6 1255:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1024	2444551.10	1980 Nov 7 1419:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1025	2444551.19	1980 Nov 7 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1026	2444551.33	1980 Nov 7 1951:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A44	2444551.43	1980 Nov 7 2214:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1027	2444554.11	1980 Nov 10 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1028	2444554.15	1980 Nov 10 1541:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1029	2444554.21	1980 Nov 10 1703:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1030	2444554.33	1980 Nov 10 1957:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1031	2444554.41	1980 Nov 10 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1032	2444554.90	1980 Nov 11 0941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1033	2444555.04	1980 Nov 11 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1035	2444555.89	1980 Nov 12 0919:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1037	2444556.09	1980 Nov 12 1412:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y462	2444556.11	1980 Nov 12 1444:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1038	2444556.22	1980 Nov 12 1720:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1039	2444556.42	1980 Nov 12 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-Y465	2444557.36	1980 Nov 13 2037:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1043	2444558.40	1980 Nov 14 2130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1044	2444558.40	1980 Nov 14 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1045	2444558.41	1980 Nov 14 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1046	2444561.04	1980 Nov 17 1253:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1047	2444561.10	1980 Nov 17 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1048	2444561.33	1980 Nov 17 1949:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1049	2444561.42	1980 Nov 17 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A46	2444561.57	1980 Nov 18 0134:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A47	2444562.09	1980 Nov 18 1415:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1052	2444562.23	1980 Nov 18 1737:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1053	2444562.26	1980 Nov 18 1817:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1054	2444562.27	1980 Nov 18 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1055	2444562.31	1980 Nov 18 1929:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y470	2444563.11	1980 Nov 19 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1056	2444563.15	1980 Nov 19 1538:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1057	2444563.20	1980 Nov 19 1649:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y471	2444563.34	1980 Nov 19 2015:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1058	2444563.43	1980 Nov 19 2223:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1059	2444563.43	1980 Nov 19 2224:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1060	2444564.40	1980 Nov 20 2129:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1061	2444564.89	1980 Nov 21 0920:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1062	2444565.09	1980 Nov 21 1413:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1063	2444565.29	1980 Nov 21 1859:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A48	2444565.36	1980 Nov 21 2040:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1064	2444565.38	1980 Nov 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A49	2444565.38	1980 Nov 21 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1065	2444568.04	1980 Nov 24 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1066	2444568.15	1980 Nov 24 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A50	2444568.21	1980 Nov 24 1702:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1067	2444568.40	1980 Nov 24 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1068	2444568.41	1980 Nov 24 2154:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1070	2444570.17	1980 Nov 26 1558:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1071	2444570.21	1980 Nov 26 1700:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y479	2444570.30	1980 Nov 26 1914:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1072	2444570.39	1980 Nov 26 2126:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1073	2444570.45	1980 Nov 26 2241:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1074	2444570.52	1980 Nov 27 0027:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1075	2444572.15	1980 Nov 28 1530:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1076	2444572.19	1980 Nov 28 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1077	2444572.41	1980 Nov 28 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1078	2444575.07	1980 Dec 1 1345:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1079	2444575.08	1980 Dec 1 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1080	2444575.14	1980 Dec 1 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1081	2444575.19	1980 Dec 1 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1082	2444575.28	1980 Dec 1 1838:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1083	2444575.38	1980 Dec 1 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1084	2444576.25	1980 Dec 2 1758:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1087	2444577.27	1980 Dec 3 1833:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1088	2444577.34	1980 Dec 3 2010:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1089	2444577.40	1980 Dec 3 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1090	2444578.27	1980 Dec 4 1834:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1091	2444578.30	1980 Dec 4 1910:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1092	2444578.31	1980 Dec 4 1931:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1093	2444579.06	1980 Dec 5 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1094	2444579.26	1980 Dec 5 1814:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1095	2444581.90	1980 Dec 8 0941:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1096	2444582.08	1980 Dec 8 1356:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1097	2444582.11	1980 Dec 8 1434:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1098	2444582.22	1980 Dec 8 1713:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1099	2444582.38	1980 Dec 8 2100:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1100	2444582.39	1980 Dec 8 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1101	2444582.42	1980 Dec 8 2206:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A51	2444582.65	1980 Dec 9 0330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1102	2444583.03	1980 Dec 9 1249:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y485	2444583.11	1980 Dec 9 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1105	2444584.16	1980 Dec 10 1547:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1106	2444584.19	1980 Dec 10 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1107	2444585.19	1980 Dec 11 1630:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y489	2444585.20	1980 Dec 11 1644:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1108	2444585.23	1980 Dec 11 1730:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A52	2444585.42	1980 Dec 11 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1111	2444586.07	1980 Dec 12 1344:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A53	2444586.10	1980 Dec 12 1423:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y492	2444586.31	1980 Dec 12 1927:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1112	2444586.34	1980 Dec 12 2003:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1113	2444586.40	1980 Dec 12 2135:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1114	2444589.04	1980 Dec 15 1257:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1115	2444589.21	1980 Dec 15 1704:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1116	2444589.74	1980 Dec 16 0548:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1117	2444589.91	1980 Dec 16 0944:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1118	2444590.08	1980 Dec 16 1400:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1119	2444590.41	1980 Dec 16 2145:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1120	2444590.41	1980 Dec 16 2147:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1124	2444590.93	1980 Dec 17 1014:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1125	2444591.04	1980 Dec 17 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-Y498	2444591.11	1980 Dec 17 1435:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1126	2444591.39	1980 Dec 17 2114:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1127	2444591.39	1980 Dec 17 2124:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1128	2444591.44	1980 Dec 17 2230:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1129	2444591.89	1980 Dec 18 0919:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y499	2444592.12	1980 Dec 18 1448:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1132	2444593.21	1980 Dec 19 1709:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1133	2444595.90	1980 Dec 22 0930:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1134	2444596.04	1980 Dec 22 1259:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1135	2444596.27	1980 Dec 22 1831:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1136	2444596.41	1980 Dec 22 2155:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1137	2444597.19	1980 Dec 23 1636:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1138	2444598.06	1980 Dec 24 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1139	2444598.10	1980 Dec 24 1430:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y505	2444598.24	1980 Dec 24 1752:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1140	2444598.26	1980 Dec 24 1820:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1141	2444598.42	1980 Dec 24 2159:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1143	2444600.04	1980 Dec 26 1256:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1144	2444603.06	1980 Dec 29 1330:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-A55	2444603.11	1980 Dec 29 1445:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1145	2444604.40	1980 Dec 30 2136:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1146	2444604.41	1980 Dec 30 2149:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-Y509	2444604.56	1980 Dec 31 0130:00	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1147	2444605.03	1980 Dec 31 1245:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1980-W1148	2444605.14	1980 Dec 31 1524:59	Rocketsonde	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A111	2438604.59	1964 Jul 28 0208	S-160	-	PT-160-1	Propellant Test	-	-	-	KASC	-	-	-	44	-	-
1965-A106	2438962.60	1965 Jul 21 0223	S-160	-	ST-160-1	Spin Test	-	-	-	KASC	-	-	-	9	-	-
1965-A107	2438962.72	1965 Jul 21 0520	S-160	-	ST-160-2	-	-	-	-	KASC	-	-	-	14	-	-
1965-A126	2438997.51	1965 Aug 25 0015	S-160	-	BT-160-1	Booster test	-	-	-	KASC	-	-	-	2	-	-
1965-A127	2438997.59	1965 Aug 25 0209	S-160	-	BT-160-2	Booster test	-	-	-	KASC	-	-	-	9	-	-
1965-S589	2439065.59	1965 Nov 1 0215	S-160	-	PT-160-2	Propellant Test	-	-	-	KASC	-	-	-	93	-	-
1965-A156	2439068.81	1965 Nov 4 0725	S-160	-	DS-160-1	Despin Test	-	-	-	KASC	-	-	-	35	-	-
1966-M17	2439240.68	1966 Apr 25 0415	S-160	-	IT-160-1	Instrument test	-	-	-	KASC	-	-	-	68	-	-
1967-S74	2439514.83	1967 Jan 24 0800:00	S-160	-	MT-160-001	Meteo Test	-	-	-	KASC	-	-	-	86	-	-
1967-S85	2439517.59	1967 Jan 27 0215	S-160	-	IT-160-2	Instrument test	-	-	-	KASC	-	-	-	86	-	-
1968-M18	2440109.58	1968 Sep 10 0200	S-160	-	ST-160-F-1	-	-	-	-	KASC	-	-	-	80?	-	-
1968-M19	2440109.50	1968 Sep 10	S-160	-	ST-160-F-2	-	-	-	-	KASC	-	-	-	80?	-	-
1968-M20	2440111.50	1968 Sep 12	S-160	-	SO-160-1	-	-	-	-	KASC	-	-	-	80?	-	-
1968-S495	2440113.54	1968 Sep 14 0100	S-160	-	S-160-1	-	-	-	-	KASC	-	-	-	82	-	-
1968-S496	2440113.67	1968 Sep 14 0400	S-160	-	S-160-2	-	-	-	-	KASC	-	-	-	82	-	-
1969-M28	2440458.50	1969 Aug 25	S-160	-	IT-160-3	Instrumentation Test	-	-	-	KASC	-	-	-	78	-	-
1970-M02	2440609.71	1970 Jan 23 0500	S-160	-	MT-160-2	Meteo Test	-	-	-	KASC	-	-	-	75	-	-
1970-S113	2440628.02	1970 Feb 10 1230	S-160	-	S-160JA-1	JARE 11	-	-	-	SYW	-	-	-	87	-	-
1970-S123	2440635.01	1970 Feb 17 1210	S-160	-	S-160JA-2	JARE 11	-	-	-	SYW	-	-	-	88	-	-
1971-S263	2441071.92	1971 Apr 30 1000	S-160	-	S-160JA-3	-	-	-	-	SYW	-	-	-	83	-	-
1971-M14	2441223.50	1971 Sep 29	S-160	-	S-160-3	Para. Test	-	-	-	KASC	-	-	-	80?	-	-
1972-S86	2441368.58	1972 Feb 21 0200	S-160	-	S-160-4	-	-	-	-	KASC	-	-	-	81	-	-
1972-S171	2441424.49	1972 Apr 16 2342	S-160	-	S-160JA-4	-	-	-	-	SYW	-	-	-	86	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A111	2438604.59	1964 Jul 28 0208	S-160	-	PT-160-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-A106	2438962.60	1965 Jul 21 0223	S-160	-	ST-160-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-A107	2438962.72	1965 Jul 21 0520	S-160	-	ST-160-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-A126	2438997.51	1965 Aug 25 0015	S-160	-	BT-160-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-A127	2438997.59	1965 Aug 25 0209	S-160	-	BT-160-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-S589	2439065.59	1965 Nov 1 0215	S-160	-	PT-160-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1965-A156	2439068.81	1965 Nov 4 0725	S-160	-	DS-160-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS6-8	-	-
1966-M17	2439240.68	1966 Apr 25 0415	S-160	-	IT-160-1	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1967-S74	2439514.83	1967 Jan 24 0800:00	S-160	-	MT-160-001	0.000	ISAS	SS	-	JMA/Arizumi	Aeron	WDCRF	-	-
1967-S85	2439517.59	1967 Jan 27 0215	S-160	-	IT-160-2	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1968-M18	2440109.58	1968 Sep 10 0200	S-160	-	ST-160-F-1	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	ISTS8	-
1968-M19	2440109.50	1968 Sep 10	S-160	-	ST-160-F-2	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	ISTS8	-
1968-M20	2440111.50	1968 Sep 12	S-160	-	SO-160-1	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	ISTS8	-
1968-S495	2440113.54	1968 Sep 14 0100	S-160	-	S-160-1	0.000	ISAS	SS	-	ISAS/	Aeron	WDCRF	ISTS8	-
1968-S496	2440113.67	1968 Sep 14 0400	S-160	-	S-160-2	0.000	ISAS	SS	-	ISAS/	Aeron	WDCRF	ISTS8	-
1969-M28	2440458.50	1969 Aug 25	S-160	-	IT-160-3	0.000	ISAS	SS	-	ISAS/	Aeron	ISST9	-	-
1970-M02	2440609.71	1970 Jan 23 0500	S-160	-	MT-160-2	0.000	ISAS	SS	-	MRI/Muramatsu	Aeron	ISST9	PMetGeo22,209	-
1970-S113	2440628.02	1970 Feb 10 1230	S-160	-	S-160JA-1	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1970-S123	2440635.01	1970 Feb 17 1210	S-160	-	S-160JA-2	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-S263	2441071.92	1971 Apr 30 1000	S-160	-	S-160JA-3	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-M14	2441223.50	1971 Sep 29	S-160	-	S-160-3	0.000	ISAS	SS	-	ISAS/	Test	ISTS10	-	-
1972-S86	2441368.58	1972 Feb 21 0200	S-160	-	S-160-4	0.000	ISAS	SS	-	ISAS/Oda?	Fields	WDCRF	-	-
1972-S171	2441424.49	1972 Apr 16 2342	S-160	-	S-160JA-4	0.000	NIPR	SS	-	NIPR/	Ionos	WDCRF	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A93	2439343.77	1966 Aug 6 0630	S-210	-	PT-210-1	-	-	-	-	KASC	-	-	-	1?	-	-
1967-A61	2439560.77	1967 Mar 11 0630	S-210	-	PT-210-2	-	-	-	-	KASC	-	-	-	1?	-	-
1969-S443	2440440.50	1969 Aug 7	S-210	-	S-210-1	-	-	-	-	KASC	-	-	-	101	-	-
1969-S448	2440442.00	1969 Aug 8 1200	S-210	-	S-210-2	-	-	-	-	KASC	-	-	-	108	-	-
1970-S74	2440603.56	1970 Jan 17 0120	S-210	-	S-210-3	-	-	-	-	KASC	-	-	-	119	-	-
1970-S537	2440857.56	1970 Sep 28 0120	S-210	-	S-210-5	-	-	-	-	KASC	-	-	-	108	-	-
1971-S66	2440967.58	1971 Jan 16 0200	S-210	-	S-210-4	Te probe	-	-	-	KASC	-	-	-	115	-	-
1971-S337	2441126.55	1971 Jun 24 0105	S-210	-	S-210JA-4	-	-	-	-	SYW	-	-	-	130	-	-
1971-S373	2441154.41	1971 Jul 21 2152	S-210	-	S-210JA-3	-	-	-	-	SYW	-	-	-	131	-	-
1971-S386	2441173.60	1971 Aug 10 0224	S-210	-	S-210JA-1	-	-	-	-	SYW	-	-	-	139	-	-
1971-S442	2441208.41	1971 Sep 13 2150	S-210	-	S-210JA-5	-	-	-	-	SYW	-	-	-	115	-	-
1971-S474	2441219.38	1971 Sep 24 2108	S-210	-	S-210JA-2	-	-	-	-	SYW	-	-	-	138	-	-
1971-S580	2441289.00	1971 Dec 3 1200	S-210	-	S-210JA-6	-	-	-	-	SYW	-	-	-	131	-	-
1972-S54	2441345.50	1972 Jan 29	S-210	-	DT-210-1	Structural Dynamics	-	-	-	KASC	-	-	-	100?	-	-
1972-S45	2441337.60	1972 Jan 21 0224	S-210	-	S-210-6	-	-	-	-	KASC	-	-	-	112	-	-
1972-S75	2441359.00	1972 Feb 11 1200	S-210	-	S-210JA-12	Mass spec.	-	-	-	SYW	-	-	-	108	-	-
1972-S81	2441364.83	1972 Feb 17 0800	S-210	-	S-210-7	-	-	-	-	KASC	-	-	-	118	-	-
1972-S194	2441451.47	1972 May 13 2313	S-210	-	S-210JA-9	-	-	-	-	SYW	-	-	-	129	-	-
1972-S195	2441453.46	1972 May 15 2302	S-210	-	S-210JA-10	-	-	-	-	SYW	-	-	-	115	-	-
1972-S280	2441536.57	1972 Aug 7 0145	S-210	-	S-210JA-11	-	-	-	-	SYW	-	-	-	126	-	-
1972-S284	2441540.54	1972 Aug 11 0101	S-210	-	S-210JA-8	-	-	-	-	SYW	-	-	-	127	-	-
1972-S436	2441665.39	1972 Dec 13 2123	S-210	-	S-210JA-7	-	-	-	-	SYW	-	-	-	126	-	-
1973-S16	2441698.49	1973 Jan 15 2340	S-210	-	S-210-8	-	-	-	-	KASC	-	-	-	122	-	-
1973-S69	2441728.49	1973 Feb 14 2345:00	S-210	-	S-210JA-16	-	-	-	-	SYW	-	-	-	103	-	-
1973-S120	2441767.37	1973 Mar 25 2047:25	S-210	-	S-210JA-14	-	-	-	-	SYW	-	-	-	114	-	-
1973-S154	2441795.50	1973 Apr 22 2354:20	S-210	-	S-210JA-17	-	-	-	-	SYW	-	-	-	124	-	-
1973-S196	2441844.35	1973 Jun 10 2020:18	S-210	-	S-210JA-13	-	-	-	-	SYW	-	-	-	123	-	-
1973-S197	2441845.38	1973 Jun 11 2110:56	S-210	-	S-210JA-15	-	-	-	-	SYW	-	-	-	125	-	-
1973-S233	2441879.30	1973 Jul 15 1909:12	S-210	-	S-210JA-19	-	-	-	-	SYW	-	-	-	131	-	-
1973-S280	2441913.91	1973 Aug 19 0955	S-210	-	S-210-9	NO airglow	-	-	-	KASC	-	-	-	115	-	-
1973-S282	2441917.41	1973 Aug 22 2153	S-210	-	S-210JA-18	Auroral arc	-	-	-	SYW	-	-	-	129	-	-
1974-S284	2442279.91	1974 Aug 20 0955	S-210	-	S-210-10	NNP/NEL/TEL	-	-	-	KASC	-	-	-	112	-	-
1976-S79	2442803.47	1976 Jan 25 2320	S-210	-	S-210JA-22	NO/Ne	-	-	-	SYW	-	-	-	127	-	-
1976-S209	2442954.49	1976 Jun 24 2340	S-210	-	S-210JA-20	VLF/HF/ne	-	-	-	SYW	-	-	-	118	-	-
1976-S230	2442985.52	1976 Jul 26 0023	S-210	-	S-210JA-21	VLF/HF/ne/ISIS-2	-	-	-	SYW	-	-	-	116	-	-
1976-S249	2443007.50	1976 Aug 16 2354	S-210	-	S-210JA-24	E/B/ne	-	-	-	SYW	-	-	-	118	-	-
1976-S250	2443007.93	1976 Aug 17 1015	S-210	-	S-210-11	-	-	-	-	KASC	-	-	-	112	-	-
1976-S284	2443022.50	1976 Sep 1 0000	S-210	-	S-210JA-25	E/B/ne	-	-	-	SYW	-	-	-	125	-	-
1976-S290	2443034.69	1976 Sep 13 0431	S-210	-	S-210JA-23	NO/Ne/ISIS-2	-	-	-	SYW	-	-	-	120	-	-
1977-S130	2443229.66	1977 Mar 27 0355	S-210	-	S-210JA-28	NO/O3/Ne	-	-	-	SYW	-	-	-	106	-	-
1977-S145	2443244.71	1977 Apr 11 0500	S-210	-	S-210JA-26	NO/O3/Ne	-	-	-	SYW	-	-	-	105	-	-
1977-S214	2443337.18	1977 Jul 12 1615	S-210	-	S-210JA-29	E/B/ne/ISIS-2	-	-	-	SYW	-	-	-	118	-	-
1977-S229	2443366.03	1977 Aug 10 1247	S-210	-	S-210JA-27	NO airglow	-	-	-	SYW	-	-	-	120	-	-
1977-S250	2443401.90	1977 Sep 15 0930	S-210	-	S-210-12	-	-	-	-	KASC	-	-	-	114	-	-
1978-S51	2443537.35	1978 Jan 28 2020	S-210	-	S-210JA-30	-	-	-	-	SYW	-	-	-	125	-	-
1978-S62	2443546.29	1978 Feb 6 1855	S-210	-	S-210JA-31	-	-	-	-	SYW	-	-	-	116	-	-
1982-S162	2445225.00	1982 Sep 12 1200	S-210	-	S-210-13	-	-	-	-	KASC	-	-	-	97	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A93	2439343.77	1966 Aug 6 0630	S-210	-	PT-210-1	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1967-A61	2439560.77	1967 Mar 11 0630	S-210	-	PT-210-2	0.000	ISAS	SU	-	ISAS/	Test	ISTS7	-	-
1969-S443	2440440.50	1969 Aug 7	S-210	-	S-210-1	0.000	ISAS	SS	-	ISAS/	Plasma/Fields/XR Astron	WDCRF	-	-
1969-S448	2440442.00	1969 Aug 8 1200	S-210	-	S-210-2	0.000	ISAS	SS	-	ISAS/	XR Astron	WDCRF	ApSpSci12,378	-
1970-S74	2440603.56	1970 Jan 17 0120	S-210	-	S-210-3	0.000	ISAS	SS	-	ISAS/	XR Astron	WDCRF	ISST9	-
1970-S537	2440857.56	1970 Sep 28 0120	S-210	-	S-210-5	0.000	ISAS	SS	-	ISAS/	Ionos	RISRJ	-	-
1971-S66	2440967.58	1971 Jan 16 0200	S-210	-	S-210-4	0.000	ISAS	SS	-	ISAS/Hirao	Ionos	WDCRF	SR12,1335	-
1971-S337	2441126.55	1971 Jun 24 0105	S-210	-	S-210JA-4	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-S373	2441154.41	1971 Jul 21 2152	S-210	-	S-210JA-3	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-S386	2441173.60	1971 Aug 10 0224	S-210	-	S-210JA-1	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-S442	2441208.41	1971 Sep 13 2150	S-210	-	S-210JA-5	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	JGG27-113	-
1971-S474	2441219.38	1971 Sep 24 2108	S-210	-	S-210JA-2	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1971-S580	2441289.00	1971 Dec 3 1200	S-210	-	S-210JA-6	0.000	NIPR	SS	-	NIPR/	Auroral	WDCRF	-	-
1972-S54	2441345.50	1972 Jan 29	S-210	-	DT-210-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS10	-	-
1972-S45	2441337.60	1972 Jan 21 0224	S-210	-	S-210-6	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1972-S75	2441359.00	1972 Feb 11 1200	S-210	-	S-210JA-12	0.000	NIPR	SS	-	NIPR/	Ionos	WDCRF	-	-
1972-S81	2441364.83	1972 Feb 17 0800	S-210	-	S-210-7	0.000	ISAS	SS	-	ISAS/Hirao	Ionos	WDCRF	SR13,489	-
1972-S194	2441451.47	1972 May 13 2313	S-210	-	S-210JA-9	0.000	NIPR	SS	-	NIPR/	Auroral/Ionos/Field	WDCRF	PlanSpaceSci23,1321	-
1972-S195	2441453.46	1972 May 15 2302	S-210	-	S-210JA-10	0.000	NIPR	SS	-	NIPR/	Auroral/Ionos/Field	WDCRF	PlanSpaceSci23,1321	-
1972-S280	2441536.57	1972 Aug 7 0145	S-210	-	S-210JA-11	0.000	NIPR	SS	-	NIPR/	Auroral/Ionos/Field	WDCRF	PlanSpaceSci23,1321	-
1972-S284	2441540.54	1972 Aug 11 0101	S-210	-	S-210JA-8	0.000	NIPR	SS	-	NIPR/	Ionos/Fields	WDCRF	PlanSpaceSci23,1321	-
1972-S436	2441665.39	1972 Dec 13 2123	S-210	-	S-210JA-7	0.000	NIPR	SS	-	NIPR/	Auroral/Ionos/Field	WDCRF	-	-
1973-S16	2441698.49	1973 Jan 15 2340	S-210	-	S-210-8	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1973-S69	2441728.49	1973 Feb 14 2345:00	S-210	-	S-210JA-16	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	-	-
1973-S120	2441767.37	1973 Mar 25 2047:25	S-210	-	S-210JA-14	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	-	-
1973-S154	2441795.50	1973 Apr 22 2354:20	S-210	-	S-210JA-17	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	JGG27-113	-
1973-S196	2441844.35	1973 Jun 10 2020:18	S-210	-	S-210JA-13	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	-	-
1973-S197	2441845.38	1973 Jun 11 2110:56	S-210	-	S-210JA-15	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	-	-
1973-S233	2441879.30	1973 Jul 15 1909:12	S-210	-	S-210JA-19	0.000	NIPR	SS	-	NIPR/	Auroral	MNIPR9,87	JGG27-113	-
1973-S280	2441913.91	1973 Aug 19 0955	S-210	-	S-210-9	0.000	ISAS	SS	-	ISAS/TOK/Tohmatsu	Aeron	SRctCon2	SR15,241	-
1973-S282	2441917.41	1973 Aug 22 2153	S-210	-	S-210JA-18	0.000	NIPR	SS	-	NIPR/	Auroral	SRctCon2	PlanSpaceSci23,1321	-
1974-S284	2442279.91	1974 Aug 20 0955	S-210	-	S-210-10	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	ISRJ29-1	-	-
1976-S79	2442803.47	1976 Jan 25 2320	S-210	-	S-210JA-22	0.000	NIPR	SS	-	NIPR/TOK/Tohmatsu	Aeron/Ionos	ISRJ30-1	-	-
1976-S209	2442954.49	1976 Jun 24 2340	S-210	-	S-210JA-20	0.000	NIPR	SS	-	NIPR/	Auroral	ISRJ	-	-
1976-S230	2442985.52	1976 Jul 26 0023	S-210	-	S-210JA-21	0.000	NIPR	SS	-	NIPR/	Auroral	ISRJ	-	-
1976-S249	2443007.50	1976 Aug 16 2354	S-210	-	S-210JA-24	0.000	NIPR	SS	-	NIPR/	Auroral	ISRJ	-	-
1976-S250	2443007.93	1976 Aug 17 1015	S-210	-	S-210-11	0.000	ISAS	SS	-	ISAS/Matsuoka	Aeron/Ionos	WDCRF	-	-
1976-S284	2443022.50	1976 Sep 1 0000	S-210	-	S-210JA-25	0.000	NIPR	SS	-	NIPR/	Auroral?	ISRJ	-	-
1976-S290	2443034.69	1976 Sep 13 0431	S-210	-	S-210JA-23	0.000	NIPR	SS	-	NIPR/	Auroral?	ISRJ	-	-
1977-S130	2443229.66	1977 Mar 27 0355	S-210	-	S-210JA-28	0.000	NIPR	SS	-	NIPR/	Aeron	ISRJ	-	-
1977-S145	2443244.71	1977 Apr 11 0500	S-210	-	S-210JA-26	0.000	NIPR	SS	-	NIPR/	Aeron	ISRJ	-	-
1977-S214	2443337.18	1977 Jul 12 1615	S-210	-	S-210JA-29	0.000	NIPR	SS	-	NIPR/	Auroral	ISRJ	-	-
1977-S229	2443366.03	1977 Aug 10 1247	S-210	-	S-210JA-27	0.000	NIPR	SS	-	NIPR/	Auroral?	JCM	PlanSpaceSci28,867	-
1977-S250	2443401.90	1977 Sep 15 0930	S-210	-	S-210-12	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	JGG31-435	WDCRF	-
1978-S51	2443537.35	1978 Jan 28 2020	S-210	-	S-210JA-30	0.000	NIPR	SS	-	NIPR/	Auroral?	JCM	-	-
1978-S62	2443546.29	1978 Feb 6 1855	S-210	-	S-210JA-31	0.000	NIPR	SS	-	NIPR/	Auroral?	JCM	-	-
1982-S162	2445225.00	1982 Sep 12 1200	S-210	-	S-210-13	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S584	2439433.59	1966 Nov 4 0205	S-300	-	PT-300-1	-	-	-	-	KASC	-	-	-	160	-	-
1969-A09	2440230.50	1969 Jan 9	S-300	-	S-300-1	-	-	-	-	KASC	-	-	-	0?	-	-
1969-S466	2440457.50	1969 Aug 24	S-300	-	S-300-2	-	-	-	-	KASC	-	-	-	160?	-	-
1969-A150	2440472.93	1969 Sep 8 1020	S-300	-	S-300-3	-	-	-	-	KASC	-	-	-	10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S584	2439433.59	1966 Nov 4 0205	S-300	-	PT-300-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	-	-
1969-A09	2440230.50	1969 Jan 9	S-300	-	S-300-1	0.000	ISAS	SF	U	ISAS/	Aeron	WDCRF	-	-
1969-S466	2440457.50	1969 Aug 24	S-300	-	S-300-2	0.000	ISAS	SS	-	ISAS/	Test	WDCRF	-	-
1969-A150	2440472.93	1969 Sep 8 1020	S-300	-	S-300-3	0.000	ISAS	SF	U	ISAS/	Aeron	WDCRF	ISST9	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A57	2439243.58	1966 Apr 28 0200	BT-310	-	BT-310-1	-	-	-	-	KASC	-	-	-	1	-	-
1966-A58	2439244.50	1966 Apr 29 0000	BT-310	-	BT-310-2	-	-	-	-	KASC	-	-	-	1	-	-
1966-A92	2439343.58	1966 Aug 6 0200	BT-310	-	MM-310-1	Mu Scale Model	-	-	-	KASC	-	-	-	2	-	-
1975-S17	2442432.67	1975 Jan 20 0410	S-310	-	S-310-1	-	-	-	-	KASC	-	-	-	192	-	-
1975-S262	2442654.67	1975 Aug 30 0410	S-310	-	S-310-2	-	-	-	-	KASC	-	-	-	191	-	-
1976-S100	2442821.91	1976 Feb 13 0945	S-310	-	S-310JA-1	VLF/HF	-	-	-	SYW	-	-	-	216	-	-
1976-S268	2443012.01	1976 Aug 21 1210	S-310	-	S-310-3	-	-	-	-	KASC	-	-	-	195	-	-
1977-S67	2443184.52	1977 Feb 10 0022:50	S-310	-	S-310JA-2	VLF/HF	-	-	-	SYW	-	-	-	212	-	-
1977-S218	2443351.15	1977 Jul 26 1535:29	S-310	-	S-310JA-3	VLF/plasma/B	-	-	-	SYW	-	-	-	221	-	-
1977-S251	2443407.86	1977 Sep 21 0835	S-310	-	S-310-4	-	-	-	-	KASC	-	-	-	188	-	-
1978-S325	2443595.30	1978 Mar 27 1915:50	S-310	-	S-310JA-7	-	-	-	-	KASC	-	-	-	220	-	-
1978-S323	2443670.46	1978 Jun 10 2256:50	S-310	-	S-310JA-5	-	-	-	-	KASC	-	-	-	226	-	-
1978-S324	2443738.52	1978 Aug 18 0032	S-310	-	S-310JA-4	-	-	-	-	KASC	-	-	-	199	-	-
1978-S326	2443749.41	1978 Aug 28 2156:00	S-310	-	S-310JA-6	-	-	-	-	KASC	-	-	-	199	-	-
1979-S39	2443892.87	1979 Jan 19 0850	S-310	-	S-310-6	-	-	-	-	KASC	-	-	-	212	-	-
1979-S56	2443904.58	1979 Jan 31 0200	S-310	-	S-310-5	-	-	-	-	KASC	-	-	-	185	-	-
1979-S202	2444131.96	1979 Sep 15 1100	S-310	-	S-310-7	-	-	-	-	KASC	-	-	-	166	-	-
1980-S33	2444271.87	1980 Feb 2 0847	S-310	-	S-310-8	-	-	-	-	KASC	-	-	-	179	-	-
1981-S54	2444626.41	1981 Jan 21 2146	S-310	-	S-310-9	-	-	-	-	KASC	-	-	-	174	-	-
1981-S147	2444841.00	1981 Aug 24 1200	S-310	-	S-310-10	-	-	-	-	KASC	-	-	-	187	-	-
1981-S155	2444854.90	1981 Sep 7 0938	S-310	-	S-310-11	Submm atm. spectra	-	-	-	KASC	-	-	-	193	-	-
1982-S171	2445237.89	1982 Sep 25 0915	S-310	-	S-310-12	-	-	-	-	KASC	-	-	-	200	-	-
1983-S163	2445590.42	1983 Sep 12 2200	S-310	-	S-310-13	-	-	-	-	KASC	-	-	-	227	-	-
1983-S164	2445594.26	1983 Sep 16 1816	S-310	-	S-310-14	-	-	-	-	KASC	-	-	-	218	-	-
1984-S78	2445795.31	1984 Apr 4 1927:01	S-310	-	S-310JA-8	AURORA I	-	-	-	SYW	-	-	-	201	-	-
1984-S85	2445824.43	1984 May 3 2214:10	S-310	-	S-310JA-9	AURORA II	-	-	-	SYW	-	-	-	204	-	-
1984-S91	2445849.47	1984 May 28 2317:13	S-310	-	S-310JA-10	AURORA III	-	-	-	SYW	-	-	-	209	-	-
1985-S35	2446103.88	1985 Feb 7 0900	S-310	-	S-310-15	-	-	-	-	KASC	K	-	-	213	-	-
1985-S79	2446214.54	1985 May 29 0059:53	S-310	-	S-310JA-11	W-P I	-	-	-	SYW	-	-	-	212	-	-
1985-S99	2446259.32	1985 Jul 12 1935:39	S-310	-	S-310JA-12	W-P II	-	-	-	SYW	-	-	-	222	-	-
1986-S20	2446463.03	1986 Feb 1 1240	S-310	-	S-310-16	E-region	-	-	-	KASC	K	-	-	201	-	-
1986-S90	2446680.04	1986 Sep 6 1300	S-310	-	S-310-17	Airglow	-	-	-	KASC	K	-	-	202	-	-
1988-S48	2447188.58	1988 Jan 28 0200	S-310	-	S-310-18	D-region	-	-	-	KASC	K	-	-	202	-	-
1989-S34	2447559.00	1989 Feb 1 1200	S-310	-	S-310-19	-	-	-	-	KASC	K	-	-	230	-	-
1990-S33	2447919.31	1990 Jan 27 1930	S-310	-	S-310-20	-	-	-	-	KASC	K	-	-	185	-	-
1992-S14	2448650.00	1992 Jan 28 1200	S-310	-	S-310-21	-	-	-	-	KASC	K	-	-	223	-	-
1994-S16	2449399.83	1994 Feb 16 0752	S-310	-	S-310-22	NNP/AIR/NID/NEL	-	-	-	AND	-	-	-	192	-	-
1994-S84	2449680.93	1994 Nov 24 1020	S-310	-	S-310-23	NNP/AIR/NID/NEL	-	-	-	AND	-	-	-	200	-	-
1996-S06	2450124.96	1996 Feb 11 1100	S-310	-	S-310-24	NTV-1	-	-	-	KASC	K	-	-	199	-	-
1996-S49	2450316.15	1996 Aug 20 1530	S-310	-	S-310-26	SEEK-1	-	-	-	KASC	K	-	-	177	-	-
1996-S51	2450322.08	1996 Aug 26 1400	S-310	-	S-310-25	SEEK-1	-	-	-	KASC	K	-	-	180	-	-
1998-S04	2450838.86	1998 Jan 25 0835	S-310	-	S-310-27	SEEK Ozone	-	-	-	KASC	K	-	-	183	-	-
1999-S05	2451211.56	1999 Feb 2 0130	S-310	-	S-310-28	SELENE RF/XR test	-	-	-	KASC	K	-	-	184	-	-
2000-S01	2451553.37	2000 Jan 9 2050	S-310	-	S-310-29	WAVE2000	-	-	-	KASC	K	-	-	179	-	-
2002-S08	2452311.94	2002 Feb 6 1030	S-310	-	S-310-30	NTV-2 Thermosphere	-	-	-	KASC	K	-	-	150	-	-
2002-S56	2452490.10	2002 Aug 3 1424	S-310	-	S-310-31	SEEK-2	-	-	-	KASC	K	-	-	152	-	-
2002-S57	2452490.11	2002 Aug 3 1439	S-310	-	S-310-32	SEEK-2	-	-	-	KASC	K	-	-	117	-	-
2004-S03	2453022.15	2004 Jan 17 1530	S-310	-	S-310-33	WAVE2004	-	-	-	KASC	K	-	-	141	-	-
2004-S31	2453226.84	2004 Aug 9 0815	S-310	-	S-310-34	Solar Sails	-	-	-	KASC	K	-	-	170	-	-
2004-S69	2453352.52	2004 Dec 13 0033:00	S-310	-	S-310-35	DELTA 2004	-	-	-	AND	U3	-	-	140	-	-
2006-S02	2453757.67	2006 Jan 22 0400	S-310	-	S-310-36	Furoshiki	-	-	-	KASC	K	-	-	130?	-	-
2007-S37	2454116.60	2007 Jan 16 0220	S-310	-	S-310-37	-	-	-	-	KASC	K	-	-	138	-	-
2008-S07	2454502.89	2008 Feb 6 0914:40	S-310	-	S-310-38	VLF/Chaff	-	-	-	KASC	K	-	-	157	-	-
2009-S02	2454857.51	2009 Jan 26 0015	S-310	-	S-310-39	DELTA-2	-	-	-	AND	U3	-	-	140?	-	-
2011-S69	2455915.87	2011 Dec 20 0848	S-310	-	S-310-40	-	-	-	-	USC	K	-	-	180	-	-
2012-S41	2456146.81	2012 Aug 7 0730:00	S-310	-	S-310-41	MAAC	-	-	-	USC	K	-	-	150	-	-
2013-S50	2456493.58	2013 Jul 20 0200	S-310	-	S-310-42	-	-	-	-	USC	K	-	-	139	-	-
2014-S43	2456874.08	2014 Aug 4 1400:00	S-310	-	S-310-43	-	Cryo tank flow test	-	-	USC	K	-	-	117	-	-
2016-S01	2457402.62	2016 Jan 15 0300	S-310	-	S-310-44	-	Plasma heating	-	-	USC	K	-	-	161	-	-
2020-S10	2458857.83	2020 Jan 9 0800	S-310	-	S-310-45	-	Dispenser test	-	-	USC	K	-	-	131	-	-
2025-S32	2460871.62	2025 Jul 15 0300	S-310	-	S-310-46	-	Sporadic E study	-	-	USC	K	-	-	110	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A57	2439243.58	1966 Apr 28 0200	BT-310	-	BT-310-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	-	-
1966-A58	2439244.50	1966 Apr 29 0000	BT-310	-	BT-310-2	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	-	-
1966-A92	2439343.58	1966 Aug 6 0200	BT-310	-	MM-310-1	0.000	ISAS	SS	-	ISAS/	Test	ISTS7	-	-
1975-S17	2442432.67	1975 Jan 20 0410	S-310	-	S-310-1	0.000	ISAS	SS	-	ISAS/	Test	FDC/Ulrich	ISRJ29-1	-
1975-S262	2442654.67	1975 Aug 30 0410	S-310	-	S-310-2	0.000	ISAS	SS	-	ISAS/	Ionos	ISRJ30-1	-	-
1976-S100	2442821.91	1976 Feb 13 0945	S-310	-	S-310JA-1	0.000	NIPR	SS	-	NIPR/KYO/Kimura	Ionos	ISRJ30-1	WDCRR	-
1976-S268	2443012.01	1976 Aug 21 1210	S-310	-	S-310-3	0.000	ISAS	SS	-	ISAS/Itoh	Ionos	WDCRF	JGG32,95	-
1977-S67	2443184.52	1977 Feb 10 0022:50	S-310	-	S-310JA-2	0.000	NIPR	SS	-	NIPR/	Ionos	ISRJ	-	-
1977-S218	2443351.15	1977 Jul 26 1535:29	S-310	-	S-310JA-3	0.000	NIPR	SS	-	NIPR/	Ionos	ISRJ	-	-
1977-S251	2443407.86	1977 Sep 21 0835	S-310	-	S-310-4	0.000	ISAS	SS	-	ISAS/	Ionos	WDCRF	-	-
1978-S325	2443595.30	1978 Mar 27 1915:50	S-310	-	S-310JA-7	0.000	ISAS	SS	-	ISAS/Nakamura	Auroral	MNIPR22,196	-	-
1978-S323	2443670.46	1978 Jun 10 2256:50	S-310	-	S-310JA-5	0.000	ISAS	SS	-	ISAS/KYO/Kimura	Ionos	MNIPR22,185	-	-
1978-S324	2443738.52	1978 Aug 18 0032	S-310	-	S-310JA-4	0.000	ISAS	SS	-	ISAS/NIPR/Ejiri	Ionos	MNIPR18,275	-	-
1978-S326	2443749.41	1978 Aug 28 2156:00	S-310	-	S-310JA-6	0.000	ISAS	SS	-	ISAS/NAG/Kamada	Ionos	MNIPR18,453	-	-
1979-S39	2443892.87	1979 Jan 19 0850	S-310	-	S-310-6	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	WDCRF	PlanSpaceSci33,875	-
1979-S56	2443904.58	1979 Jan 31 0200	S-310	-	S-310-5	0.000	ISAS	SS	-	ISAS/	Ionos/Fields	WDCRF	-	-
1979-S202	2444131.96	1979 Sep 15 1100	S-310	-	S-310-7	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1980-S33	2444271.87	1980 Feb 2 0847	S-310	-	S-310-8	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1981-S54	2444626.41	1981 Jan 21 2146	S-310	-	S-310-9	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1981-S147	2444841.00	1981 Aug 24 1200	S-310	-	S-310-10	0.000	ISAS	SS	-	ISAS/	Test/Auroral/Aeron	SRJ	-	-
1981-S155	2444854.90	1981 Sep 7 0938	S-310	-	S-310-11	0.000	ISAS	SS	-	ISAS/TOK/Matzusaki	Aeron	SRJ	AnGeo2,475	-
1982-S171	2445237.89	1982 Sep 25 0915	S-310	-	S-310-12	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1983-S163	2445590.42	1983 Sep 12 2200	S-310	-	S-310-13	0.000	ISAS	SS	-	ISAS/	Ionos	SRJ	-	-
1983-S164	2445594.26	1983 Sep 16 1816	S-310	-	S-310-14	0.000	ISAS	SS	-	ISAS/Oyama,Hirao	Aeron	SRJ	PlanSpaceSci33,875	-
1984-S78	2445795.31	1984 Apr 4 1927:01	S-310	-	S-310JA-8	0.000	NIPR	SS	-	NIPR/	Ionos	JGG40,763	SRJ	-
1984-S85	2445824.43	1984 May 3 2214:10	S-310	-	S-310JA-9	0.000	NIPR	SS	-	NIPR/	Ionos	JGG40,763	SRJ	-
1984-S91	2445849.47	1984 May 28 2317:13	S-310	-	S-310JA-10	0.000	NIPR	SS	-	NIPR/	Ionos	JGG40,763	SRJ	-
1985-S35	2446103.88	1985 Feb 7 0900	S-310	-	S-310-15	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1985-S79	2446214.54	1985 May 29 0059:53	S-310	-	S-310JA-11	0.000	NIPR	SS	-	NIPR/	Ionos	JGG40,763	SRJ	-
1985-S99	2446259.32	1985 Jul 12 1935:39	S-310	-	S-310JA-12	0.000	NIPR	SS	-	NIPR/	Ionos	JGG40,763	SRJ	-
1986-S20	2446463.03	1986 Feb 1 1240	S-310	-	S-310-16	0.000	ISAS	SS	-	ISAS/RIKK/Watanabe	Ionos	SRJ	-	-
1986-S90	2446680.04	1986 Sep 6 1300	S-310	-	S-310-17	0.000	ISAS	SS	-	ISAS/TOK/Kita	Aeron	SRJ	-	-
1988-S48	2447188.58	1988 Jan 28 0200	S-310	-	S-310-18	0.000	ISAS	SS	-	ISAS/Kanazawa,Nagano	Ionos/Aeron	SRJ	ASR25,1,33	-
1989-S34	2447559.00	1989 Feb 1 1200	S-310	-	S-310-19	0.000	ISAS	SS	-	ISAS/TOK/	Aeron	SRJ	-	-
1990-S33	2447919.31	1990 Jan 27 1930	S-310	-	S-310-20	0.000	ISAS	SS	-	ISAS/TOK/	Aeron	SRJ	-	-
1992-S14	2448650.00	1992 Jan 28 1200	S-310	-	S-310-21	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1994-S16	2449399.83	1994 Feb 16 0752	S-310	-	S-310-22	0.000	ISAS	SS	-	ISAS/RIKK/TOK/	Aeron	EarthPlanSp50,745	SRJ	-
1994-S84	2449680.93	1994 Nov 24 1020	S-310	-	S-310-23	0.000	ISAS	SS	-	ISAS/TOK/	Aeron	SRJ	-	-
1996-S06	2450124.96	1996 Feb 11 1100	S-310	-	S-310-24	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ	-	-
1996-S49	2450316.15	1996 Aug 20 1530	S-310	-	S-310-26	0.000	ISAS	SS	-	ISAS/KYO/Fukao	Plasma	ISAS-WWW	-	-
1996-S51	2450322.08	1996 Aug 26 1400	S-310	-	S-310-25	0.000	ISAS	SS	-	ISAS/KYO/Fukao	Plasma	ISAS-WWW	-	-
1998-S04	2450838.86	1998 Jan 25 0835	S-310	-	S-310-27	0.000	ISAS	SS	-	ISAS/TSUK/	Aeron	ISAS-WWW	-	-
1999-S05	2451211.56	1999 Feb 2 0130	S-310	-	S-310-28	0.000	ISAS	SS	-	ISAS/TOHO/Ono	Ionos/XR	Wire	ESA-SP437	-
2000-S01	2451553.37	2000 Jan 9 2050	S-310	-	S-310-29	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP471	-	-
2002-S08	2452311.94	2002 Feb 6 1030	S-310	-	S-310-30	0.000	ISAS	SS	-	ISAS/	Aeron	ISAS-WWW	ISTS23-450	-
2002-S56	2452490.10	2002 Aug 3 1424	S-310	-	S-310-31	0.000	ISAS	SS	-	ISAS/KYO/Fukao	Aeron	ISAS-WWW	-	-
2002-S57	2452490.11	2002 Aug 3 1439	S-310	-	S-310-32	0.000	ISAS	SS	-	ISAS/KYO/Fukao	Aeron	ISAS-WWW	-	-
2004-S03	2453022.15	2004 Jan 17 1530	S-310	-	S-310-33	0.000	ISAS	SS	-	ISAS/TOK/Iwagami	Aeron	www.ihi.co.jp	ASR35,1964	-
2004-S31	2453226.84	2004 Aug 9 0815	S-310	-	S-310-34	0.000	ISAS	SS	-	ISAS/TOK/Nishimura	Tech	Wire	-	-
2004-S69	2453352.52	2004 Dec 13 0033:00	S-310	-	S-310-35	0.000	JAXA	SS	-	ISAS/Abe	Aeron	rocketrange.no	ESA-SP590-601	-
2006-S02	2453757.67	2006 Jan 22 0400	S-310	-	S-310-36	0.000	JAXA	SS	-	ISAS/KOBE/Kaya	Tech	u-tokyo.ac.jp	-	-
2007-S37	2454116.60	2007 Jan 16 0220	S-310	-	S-310-37	0.000	JAXA	SS	-	ISAS/Abe	Ionos	jaxa.jp	-	-
2008-S07	2454502.89	2008 Feb 6 0914:40	S-310	-	S-310-38	0.000	JAXA	SS	-	TOYA/ISAS/Ishisaka,Abe	Ionos	jaxa.jp	-	-
2009-S02	2454857.51	2009 Jan 26 0015	S-310	-	S-310-39	0.000	JAXA	SS	-	ISAS/Abe	Aeron	rocketrange.no	-	-
2011-S69	2455915.87	2011 Dec 20 0848	S-310	-	S-310-40	0.000	JAXA	SS	-	ISAS/Abe	Aeron	jaxa.jp	-	-
2012-S41	2456146.81	2012 Aug 7 0730:00	S-310	-	S-310-41	0.000	JAXA	SS	-	ISAS/	Reentry test	jaxa.jp	-	-
2013-S50	2456493.58	2013 Jul 20 0200	S-310	-	S-310-42	0.000	JAXA	SS	-	ISAS/	Aeron	jaxa.jp	-	-
2014-S43	2456874.08	2014 Aug 4 1400:00	S-310	-	S-310-43	0.000	JAXA	SS	-	ISAS/	Tech	jaxa.jp	-	-
2016-S01	2457402.62	2016 Jan 15 0300	S-310	-	S-310-44	0.000	JAXA	SS	-	ISAS/	Ionos	jaxa.jp	-	-
2020-S10	2458857.83	2020 Jan 9 0800	S-310	-	S-310-45	0.000	JAXA	SS	-	ISAS/	Tech	jaxa.jp	-	-
2025-S32	2460871.62	2025 Jul 15 0300	S-310	-	S-310-46	0.000	JAXA	SS	-	ISAS/	Ionos	jaxa.jp	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-S131	2446025.50	1984 Nov 21	Sonda 4	-	PT-01	-	-	-	-	CLBI	-	-	-	616	-	-
1985-S138	2446389.04	1985 Nov 19 1300	Sonda 4	-	PT-02	GL A40.401 (HARP)	-	-	-	CLBI	-	-	-	667	-	-
1987-S167	2447107.50	1987 Nov 8	Sonda 4	-	PT-03	-	-	-	-	CLBI	-	-	-	130	-	-
1989-S48	2447613.50	1989 Mar 28	Sonda 4	-	PT-04	-	-	-	-	CLBI	-	-	-	821	-	-
1993-S26	2449079.94	1993 Apr 2 1034	VS-40	-	PT-01	-	-	-	-	ALCA	UL?	-	-	950	-	-
1997-F03	2450755.02	1997 Nov 2 1225:00	VLS-1	-	V01	SCD-2A	SCD-2A	-	-	ALCA	VLS	-	-	3	-	-
1998-S31	2450893.50	1998 Mar 21	VS-40	-	V02	VAP-1	-	-	-	ALCA	UL?	-	-	900?	-	-
1999-F05	2451524.27	1999 Dec 11 1825	VLS-1	-	V02	SACI-2	SACI-2	-	-	ALCA	VLS	-	-	10	-	-
2003-E01	2452874.19	2003 Aug 22 1630?	VLS-1	-	V03	SATEC/UNOSAT	-	-	-	ALCA	VLS	-	-	0	-	-
2012-S30	2456101.30	2012 Jun 22 1918	VS-40M	-	-	DLR SHEFEX II	-	-	-	AND	U3	-	-	177	-	-
2015-E01	2457340.22	2015 Nov 13 1720	VS-40M	-	V03	SARA Suborbital 1	-	-	-	ALCA	UL?	-	-	0	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-S131	2446025.50	1984 Nov 21	Sonda 4	-	PT-01	0.000	IAE	SS	-	INPE/	Test	ESA-SP229-351	-	-
1985-S138	2446389.04	1985 Nov 19 1300	Sonda 4	-	PT-02	0.000	IAE	SS	-	AFCRL/McKenna	Test	WDCRF	ESA-SP291-213/AFCRL	-
1987-S167	2447107.50	1987 Nov 8	Sonda 4	-	PT-03	0.000	IAE	SF	S2?	INPE/	Test	ESA-SP370	-	-
1989-S48	2447613.50	1989 Mar 28	Sonda 4	-	PT-04	0.000	IAE	SS	-	INPE/	Test	ESA-SP370	FI890513-22	-
1993-S26	2449079.94	1993 Apr 2 1034	VS-40	-	PT-01	0.000	INPE	SS	-	INPE/	Test	Wire	ESA-SP370	-
1997-F03	2450755.02	1997 Nov 2 1225:00	VLS-1	-	V01	0.150	AEB	OF	FS	G	Sat LEO O	Wire	-	SO-D no ignite, S3 fail
1998-S31	2450893.50	1998 Mar 21	VS-40	-	V02	0.000	INPE	SS	-	INPE/	Test	NK9811-23	brazilianspace.blog	-
1999-F05	2451524.27	1999 Dec 11 1825	VLS-1	-	V02	0.060	AEB	OF	S2G	G	Sat LEO O	www.iae.cta.br	-	S2 off course
2003-E01	2452874.19	2003 Aug 22 1630?	VLS-1	-	V03	0.000	AEB	OE	PE	G	Sat LEO O	www.iae.cta.br	-	Fatalities
2012-S30	2456101.30	2012 Jun 22 1918	VS-40M	-	-	0.000	DLR	SS	-	DLR/	Hypersonic	rocketrange.no	-	-
2015-E01	2457340.22	2015 Nov 13 1720	VS-40M	-	V03	0.000	AEB	SE	-	-	Reentry test	brazilianspace.blog	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-S27	2444256.76	1980 Jan 18 0620	S-520	-	S-520-1	Heat Pipe	-	-	-	KASC	K	-	-	329	-	-
1981-S57	2444633.79	1981 Jan 29 0700	S-520	-	S-520-2	TPE-2	-	-	-	KASC	K	-	-	323	-	-
1981-S154	2444852.54	1981 Sep 5 0100	S-520	-	S-520-4	PL Recovery Test	-	-	-	KASC	K	-	-	224	-	-
1982-S56	2445014.95	1982 Feb 14 1050	S-520	-	S-520-3	0.3m telescope test	-	-	-	KASC	K	-	-	266	-	-
1982-S158	2445218.58	1982 Sep 6 0200:00	S-520	-	S-520-5	0.1m telescope	-	-	-	KASC	K	-	-	237	-	-
1983-S150	2445575.92	1983 Aug 29 1000	S-520	-	S-520-6	MINIX	-	-	-	KASC	K	-	-	238	-	-
1985-S40	2446107.94	1985 Feb 11 1030	S-520	-	S-520-7	-	-	-	-	KASC	K	-	-	362	-	-
1987-S42	2446810.84	1987 Jan 15 0810	S-520	-	S-520-9	E field	-	-	-	KASC	K	-	-	365	-	-
1987-S54	2446848.18	1987 Feb 21 1615	S-520	-	S-520-8	GUV	-	-	-	KASC	K	-	-	286	-	-
1989-S89	2447774.18	1989 Sep 4 1615	S-520	-	S-520-10	CIR Cosmic IR	-	-	-	KASC	K	-	-	288	-	-
1990-S44	2447944.17	1990 Feb 21 1600	S-520	-	S-520-11	CIR	-	-	-	KASC	K	-	-	317	-	-
1990-S48	2447948.59	1990 Feb 26 0206	S-520	-	S-520-12	A-1	-	-	-	AND	-	-	-	369	-	-
1991-S66	2448299.65	1991 Feb 12 0329	S-520	-	S-520-14	A-2	-	-	-	AND	-	-	-	353	-	-
1991-S71	2448304.04	1991 Feb 16 1300	S-520	-	S-520-13	EUV Telescopes	-	-	-	KASC	K	-	-	337	-	-
1992-S16	2448654.17	1992 Feb 1 1600	S-520	-	S-520-15	CIR	-	-	-	KASC	K	-	-	338	-	-
1993-S14	2449036.79	1993 Feb 18 0700	S-520	-	S-520-16	METS	-	-	-	KASC	K	-	-	272	-	-
1994-S87	2449688.40	1994 Dec 1 2139	S-520	-	S-520-21	-	-	-	-	AND	-	-	-	344	-	-
1995-S05	2449741.02	1995 Jan 23 1230	S-520	-	S-520-17	-	-	-	-	KASC	K	-	-	346	-	-
1995-S07	2449746.17	1995 Jan 28 1600	S-520	-	S-520-19	EUV Telescopes	-	-	-	KASC	K	-	-	330	-	-
1995-A07	2449977.81	1995 Sep 17 0730	S-520	-	S-520-20	Lunar Penetrator test	-	-	-	KASC	K	-	-	1	-	-
1997-S05	2450478.81	1997 Jan 30 0730	S-520	-	S-520-18	Lunar Penetrator test	-	-	-	KASC	K	-	-	309	-	-
1998-S06	2450844.69	1998 Jan 31 0430	S-520	-	S-520-22	SOLAR-B XDT	-	-	-	KASC	K	-	-	270	-	-
1998-S08	2450849.85	1998 Feb 5 0830	SS-520	-	SS-520-1	ENA/EPS/LAP	-	-	-	KASC	K	-	-	750	-	-
2000-S64	2451882.89	2000 Dec 4 0916:00	SS-520	-	SS-520-2	Ion Outflow	-	-	-	SVAL	-	-	-	1108	-	-
2007-S74	2454345.93	2007 Sep 2 1020	S-520	-	S-520-23	WIND	-	-	-	USC	K	-	-	279	-	-
2008-S37	2454680.85	2008 Aug 2 0830	S-520	-	S-520-24	Microgravity	-	-	-	USC	K	-	-	293	-	-
2010-S55	2455439.33	2010 Aug 30 2000	S-520	-	S-520-25	T-REX	-	-	-	USC	K	-	-	309	-	-
2012-S02	2455939.12	2012 Jan 12 1451:00	S-520	-	S-520-26	Li release	-	-	-	USC	K	-	-	298	-	-
2012-S73	2456278.79	2012 Dec 17 0700:00	S-520	-	S-520-28	Microgravity/Dust nuc	-	-	-	USC	K	-	-	312	-	-
2013-S51	2456493.62	2013 Jul 20 0257	S-520	-	S-520-27	-	-	-	-	USC	K	-	-	316	-	-
2014-S44	2456886.92	2014 Aug 17 1010:00	S-520	-	S-520-29	Sporadic E study	-	-	-	USC	K	-	-	243	-	-
2015-S49	2457276.96	2015 Sep 11 1100	S-520	-	S-520-30	Dust nucleation	-	-	-	USC	K	-	-	312	-	-
2017-F01	2457768.48	2017 Jan 14 2333	SS-520	4	SS-520-4	TRICOM 1	TRICOM-1	-	-	USC	K	-	-	220?	160?	-
2018-016	2458152.71	2018 Feb 3 0503	SS-520	4	SS-520-5	Tasuki	TRICOM-1R	-	-	USC	K	-	-	2012	-	-
2021-S48	2459422.35	2021 Jul 26 2030:00	S-520	-	S-520-31	DES/RATS	-	-	-	USC	K	-	-	235	-	-
2021-S75	2459522.59	2021 Nov 4 0209:25	SS-520	-	SS-520-3	-	-	-	-	SVAL	-	-	-	956	-	-
2022-S60	2459784.33	2022 Jul 23 2000:00	S-520	-	S-520-RD1	S-520-RD1	-	-	-	USC	K	-	-	168	-	-
2022-S79	2459803.10	2022 Aug 11 1420	S-520	-	S-520-32	S-520-32	-	-	-	USC	K	-	-	279	-	-
2023-S66	2460280.79	2023 Dec 2 0700	S-520	-	S-520-33	S-520-RD2	-	-	-	USC	K	-	-	304	-	-
2024-S71	2460628.60	2024 Nov 14 0230:00	S-520	-	S-520-34	DES/RATS-2	-	-	-	USC	K	-	-	217	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-S27	2444256.76	1980 Jan 18 0620	S-520	-	S-520-1	0.000	ISAS	SS	-	ISAS/TSUK/Murakami	Aeron/Ionos	SRJ	-	-
1981-S57	2444633.79	1981 Jan 29 0700	S-520	-	S-520-2	0.000	ISAS	SS	-	ISAS/USU/Sasaki,Raitt	Ionos/Tether	JScR24,444	AdvAstSci62-497	-
1981-S154	2444852.54	1981 Sep 5 0100	S-520	-	S-520-4	0.000	ISAS	SS	-	ISAS/Hayashi	Test/Ionos	SRJ	-	-
1982-S56	2445014.95	1982 Feb 14 1050	S-520	-	S-520-3	0.000	ISAS	SS	-	TOK/Tanaka	UV Astronomy	SRJ	ApSpaSci114,387	-
1982-S158	2445218.58	1982 Sep 6 0200:00	S-520	-	S-520-5	0.000	ISAS	SS	-	ISAS/TAO/Nakatani,Hamana	Solar EUV	SRJ	ISASRpt608	-
1983-S150	2445575.92	1983 Aug 29 1000	S-520	-	S-520-6	0.000	ISAS	SS	-	ISAS/KOBE/Nagatomo,Kaya	Plasma physics	SRJ	-	-
1985-S40	2446107.94	1985 Feb 11 1030	S-520	-	S-520-7	0.000	ISAS	SS	-	ISAS/	Aeron/Ionos	SRJ	-	-
1987-S42	2446810.84	1987 Jan 15 0810	S-520	-	S-520-9	0.000	ISAS	SS	-	ISAS/Nakamura	Ionos/Aeron	SRJ	JGR94,5283	-
1987-S54	2446848.18	1987 Feb 21 1615	S-520	-	S-520-8	0.000	ISAS	SS	-	TOK/Tanaka,Onaka	UV Astron	SRJ	ApJ342,238	-
1989-S89	2447774.18	1989 Sep 4 1615	S-520	-	S-520-10	0.000	ISAS	SS	-	NAG/Matsuhara?	IR Astron	SRJ	-	-
1990-S44	2447944.17	1990 Feb 21 1600	S-520	-	S-520-11	0.000	ISAS	SS	-	NAG/Matsuhara	IR Astron	SRJ	Icarus115,199	-
1990-S48	2447948.59	1990 Feb 26 0206	S-520	-	S-520-12	0.000	ISAS	SS	-	ISAS/Kanazawa	Auroral	SRJ	-	-
1991-S66	2448299.65	1991 Feb 12 0329	S-520	-	S-520-14	0.000	ISAS	SS	-	ISAS/TOKAI/	Auroral	SRJ	-	-
1991-S71	2448304.04	1991 Feb 16 1300	S-520	-	S-520-13	0.000	ISAS	SS	-	ISAS/OSAKA/Miyazaki	EUV Astron	SRJ	-	-
1992-S16	2448654.17	1992 Feb 1 1600	S-520	-	S-520-15	0.000	ISAS	SS	-	NAG/Matsuhara	IR Astron	SRJ	Icarus115,199	-
1993-S14	2449036.79	1993 Feb 18 0700	S-520	-	S-520-16	0.000	ISAS	SS	-	ISAS/Akiba,Nakajima	Ionos/Active plasma	SRJ	SN930301-9	-
1994-S87	2449688.40	1994 Dec 1 2139	S-520	-	S-520-21	0.000	ISAS	SS	-	ISAS/CRLI/TOHO/	Auroral	SRJ	-	-
1995-S05	2449741.02	1995 Jan 23 1230	S-520	-	S-520-17	0.000	ISAS	SS	-	ISAS/NOBY/Matsuo	Submm Astron	SRJ	-	-
1995-S07	2449746.17	1995 Jan 28 1600	S-520	-	S-520-19	0.000	ISAS	SS	-	ISAS/NAG/	EUV Astron	SRJ	-	-
1995-A07	2449977.81	1995 Sep 17 0730	S-520	-	S-520-20	0.000	ISAS	SF	U	ISAS/	Tech	SRJ	-	-
1997-S05	2450478.81	1997 Jan 30 0730	S-520	-	S-520-18	0.000	ISAS	SS	-	ISAS/	Tech	ISAS-WWW	JScR41,868	-
1998-S06	2450844.69	1998 Jan 31 0430	S-520	-	S-520-22	0.000	ISAS	SS	-	ISAS/NAOJ/Shimuzu	Solar XUV	ISAS-WWW	-	-
1998-S08	2450849.85	1998 Feb 5 0830	SS-520	-	SS-520-1	0.000	ISAS	SS	-	ISAS/TOK/	Test/Plasma	ISAS-WWW	-	-
2000-S64	2451882.89	2000 Dec 4 0916:00	SS-520	-	SS-520-2	0.000	ISAS	SS	-	ISAS/KYO/Ueda,Iwai	Ionos	AND-WWW	ISTS23-2092	-
2007-S74	2454345.93	2007 Sep 2 1020	S-520	-	S-520-23	0.000	JAXA	SS	-	TOHO/TOYA/Uemoto,Ishisa.	Ionos	ISAS-WWW	-	-
2008-S37	2454680.85	2008 Aug 2 0830	S-520	-	S-520-24	0.000	JAXA	SS	-	TEIK/ISAS/	Microgravity	ISAS-WWW	-	-
2010-S55	2455439.33	2010 Aug 30 2000	S-520	-	S-520-25	0.000	JAXA	SS	-	KAIT/TMU/Fulii,Sumino	Tech/Ionos	www.jaxa.jp	www.ihi.co.jp	-
2012-S02	2455939.12	2012 Jan 12 1451:00	S-520	-	S-520-26	0.000	JAXA	SS	-	ISAS/Abe	Aeron	sacj.org/openbbs	www.jaxa.jp	-
2012-S73	2456278.79	2012 Dec 17 0700:00	S-520	-	S-520-28	0.000	JAXA	SS	-	TOK/TOKAI/HOKK/Kimura	Microgravity/Physics	jaxa.jp	-	-
2013-S51	2456493.62	2013 Jul 20 0257	S-520	-	S-520-27	0.000	JAXA	SS	-	ISAS/	Aeron	jaxa.jp	-	-
2014-S44	2456886.92	2014 Aug 17 1010:00	S-520	-	S-520-29	0.000	JAXA	SS	-	ISAS/	Ionos	jaxa.jp	-	-
2015-S49	2457276.96	2015 Sep 11 1100	S-520	-	S-520-30	0.000	JAXA	SS	-	HOKK/TOK/TOKAI/Kimura	Microgravity/Physics	jaxa.jp	-	-
2017-F01	2457768.48	2017 Jan 14 2333	SS-520	4	SS-520-4	0.003	JAXA	OF	U	G	Sat LEO O	Wire	-	-
2018-016	2458152.71	2018 Feb 3 0503	SS-520	4	SS-520-5	0.003	JAXA	OS	-	G	Sat LEO O	jaxa.jp	-	-
2021-S48	2459422.35	2021 Jul 26 2030:00	S-520	-	S-520-31	0.000	JAXA	SS	-	ISAS/	Tech/Reentry test	jaxa.jp	-	-
2021-S75	2459522.59	2021 Nov 4 0209:25	SS-520	-	SS-520-3	0.000	JAXA	SS	-	ISAS/	Ionos	jaxa.jp	-	-
2022-S60	2459784.33	2022 Jul 23 2000:00	S-520	-	S-520-RD1	0.000	JAXA	SS	-	ISAS/	Tech/Reentry test	jaxa.jp	-	-
2022-S79	2459803.10	2022 Aug 11 1420	S-520	-	S-520-32	0.000	JAXA	SS	-	ISAS/	Ionos	jaxa.jp	-	-
2023-S66	2460280.79	2023 Dec 2 0700	S-520	-	S-520-33	0.000	JAXA	SS	-	ISAS/	Tech	jaxa.jp	-	-
2024-S71	2460628.60	2024 Nov 14 0230:00	S-520	-	S-520-34	0.000	JAXA	SS	-	ISAS/	Tech	jaxa.jp	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-M01	2445716.50	1984 Jan 17	ST-735	1	ST-735-1	SRB Sep test	-	-	-	KASC	K?	-	-	50?	-	-
1994-S67	2449611.67	1994 Sep 16 0400	ST-735	-	ST-735-2	FIH Test	-	-	-	KASC	K?	-	-	118	-	-
2002-A01	2452469.57	2002 Jul 14 0134	NAL-735	-	-	NEXST-1	-	-	-	WOO	LA1	-	-	0	-	-
2005-A05	2453653.40	2005 Oct 9 2136	NAL-735	-	-	NEXST-1 F2	-	-	-	WOO	LA1	-	-	20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-M01	2445716.50	1984 Jan 17	ST-735	1	ST-735-1	0.000	ISAS	SS	-	ISAS/	Test	ISASRpt635	-	-
1994-S67	2449611.67	1994 Sep 16 0400	ST-735	-	ST-735-2	0.000	ISAS	SS	-	ISAS/	Test	SRJ	-	-
2002-A01	2452469.57	2002 Jul 14 0134	NAL-735	-	-	0.000	NAL	AF	U	-	Test	J.A.Hill	-	-
2005-A05	2453653.40	2005 Oct 9 2136	NAL-735	-	-	0.000	NAL	AS	-	-	Test	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1989-M02	2447658.25	1989 May 11 1800	SICBM	-	FTM-1	-	-	-	-	V	TP-01	-	-	80?	-	-
1991-S98	2448365.27	1991 Apr 18 1833	SICBM	-	FTM-2A	KMR	-	-	-	V	TP-01	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1989-M02	2447658.25	1989 May 11 1800	SICBM	-	FTM-1	0.000	AFSC	MF	U	-	Test	AWST890522-25	-	-
1991-S98	2448365.27	1991 Apr 18 1833	SICBM	-	FTM-2A	0.000	AFSC	MS	-	-	Test	JCM	AWST910422-17	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-M09	2459414.50	2021 Jul 19	SORS	-	-	-	-	-	-	SINOP	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-M09	2459414.50	2021 Jul 19	SORS	-	-	0.000	DVST	SS	-	-	Test	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1995-S35	2449831.50	1995 Apr 24	Hera	-	1	BRV/Propulsion Test	-	-	-	WS	LC32	-	-	275	-	-
1995-S64	2449992.50	1995 Oct 2	Hera	-	2	BRV/THAAD Demo	-	-	-	WS	FIX	-	-	300	-	-
1996-S05	2450115.50	1996 Feb 2	Hera	-	3	BRV/Piledriver Demo	-	-	-	WS	FIX	-	-	89	-	-
1996-S13	2450164.50	1996 Mar 22	Hera	-	4	BRV/THAAD Target	-	-	-	WS	FIX	-	-	300	-	-
1996-S41	2450279.98	1996 Jul 15 1128	Hera	-	5	BRV/THAAD Target	-	-	-	WS	FIX	-	-	300	-	-
1996-S61	2450366.01	1996 Oct 9 1210	Hera	-	6	BRV/THAAD RST-1	-	-	-	WS	FIX	-	-	309	-	-
1997-A04	2450477.50	1997 Jan 29	Storm-2	-	-	MTTV-3/MTD-2 PAC Tgt	-	-	-	WS	LC32	-	-	10	-	-
1997-A05	2450479.41	1997 Jan 30 2155	AltAir	-	-	AltAir (Have Gold)	-	-	C-130	PM	RW03/21?	WTR	LP3	15	-	-
1997-S23	2450514.03	1997 Mar 6 1240	Hera	-	7	BRV/THAAD Target	-	-	-	WS	FIX	-	-	300	-	-
1997-S48	2450623.67	1997 Jun 24 0400	Minuteman 2 PLV	-	PLV	IFT-1A EKV	-	-	-	KMR	Meck	-	-	200?	-	-
1997-S62	2450715.50	1997 Sep 24	Storm-2	-	-	MTTV-4/Patriot Targ	-	-	-	WS	LC32	-	-	110	-	-
1997-M04	2450770.05	1997 Nov 17 1310	Hera	-	8	MTV (Moving Target)	-	-	-	FW	LC96	-	-	70?	-	-
1998-S03	2450829.66	1998 Jan 16 0346	Minuteman 2 PLV	-	PLV	IFT-2 EKV	-	-	-	KMR	Meck	-	-	300?	-	-
1998-M01	2450875.04	1998 Mar 2 1301	Hera	-	9	MBRV-3	-	-	-	FW	LC96	-	-	100?	-	-
1998-S43	2450945.97	1998 May 12 1122	Hera	-	10	BRV/THAAD Target	-	-	-	WS	FIX	-	-	300	-	-
1998-S56	2451081.03	1998 Sep 24 1250	Storm-2	-	-	MTTV-5/MTD-3	-	-	-	WS	LC32	-	-	180	-	-
1998-M03	2451161.50	1998 Dec 14	Hera	-	11	PAC-3 SCF	-	-	-	FW	LC96	-	-	70?	-	-
1998-S61	2451123.56	1998 Nov 6 0132	Juno	-	-	ait-1	-	-	-	KLC	LP2	-	-	715	-	-
1999-S13	2451253.08	1999 Mar 15 1349	Hera	-	12	BRV/PAC-3 SCF-2	-	-	-	FW	LC96	-	-	94	-	-
1999-S19	2451267.01	1999 Mar 29 1213	Hera	-	13	BRV/THAAD Targ 4	-	-	-	WS	FIX	-	-	300	-	-
1999-S21	2451268.51	1999 Mar 31 0015	SRALT	-	-	SRALT/MBRV-3	-	-	C-130	KAU	RW16/34	KAU	LP1	99	281	162W 24N
1999-S33	2451323.97	1999 May 25 1114	Hera	-	14	BRV/THAAD Target 5	-	-	-	FW	LC96	-	-	92	-	-
1999-S35	2451339.96	1999 Jun 10 1107	Hera	-	15	BRV/THAAD T6/ FT-10	-	-	-	WS	FIX	-	-	310	-	-
1999-S51	2451392.98	1999 Aug 2 1137	Hera	-	16	BRV/THAAD T7/ FT-11	-	-	-	WS	FIX	-	-	270	-	-
1999-S59	2451427.50	1999 Sep 6	SR19/SR19	?	-	TCMP-3A	-	-	-	WAKE	-	-	-	300?	-	-
1999-S61	2451438.06	1999 Sep 16 1326	Hera	-	17	BRV/PAC-3 DT-3	-	-	-	FW	LC96	-	-	95	-	-
1999-S68	2451454.60	1999 Oct 3 0222	Minuteman 2 PLV	-	PLV	IFT-3 EKV	-	-	-	KMR	Meck	-	-	230?	-	-
2000-S03	2451562.61	2000 Jan 19 0240	Minuteman 2 PLV	-	PLV	IFT-4 EKV	-	-	-	KMR	Meck	-	-	230	-	-
2000-M02	2451580.09	2000 Feb 5 1404	Hera	-	18	MBRV-3/PAC-3 DT-5	-	-	-	FW	LC96	-	-	60	-	-
2000-S60	2451832.06	2000 Oct 14 1330	Storm-2	-	PAC-3 DT-6	MTTV-6	-	-	-	FW	LC96	-	-	104	-	-
2000-S42	2451733.69	2000 Jul 8 0440	Minuteman 2 PLV	-	PLV IFT-5	IFT-5 EKV	-	-	-	KMR	Meck	-	-	230?	-	-
2001-S12	2451961.29	2001 Feb 20 1858	SR19/SR19	-	-	TCMP-3B	-	-	-	WAKE	-	-	-	300?	-	-
2001-S15	2451999.50	2001 Mar 31	Hera	-	19/MBRV-3	MBRV-3/PAC-3 DT-8a	-	-	-	FW	LC96	-	-	114	-	-
2001-S34	2452099.50	2001 Jul 9	Hera	-	20/MBRV-1E	MBRV-1E/PAC DT/OT-9a	-	-	-	FW	LC96	-	-	145	-	-
2001-S36	2452105.63	2001 Jul 15 0301	Minuteman 2 PLV	-	PLV IFT-6	IFT-6 EKV	-	-	-	KMR	Meck	-	-	225	-	-
2001-S52	2452247.64	2001 Dec 4 0319?	Minuteman 2 PLV	-	PLV IFT-7	IFT-7 EKV	-	-	-	KMR	Meck	-	-	225?	-	-
2002-S19	2452349.61	2002 Mar 16 0232	Minuteman 2 PLV	-	PLV IFT-8	IFT-8 EKV	-	-	-	KMR	Meck	-	-	225?	-	-
2002-S22	2452355.09	2002 Mar 21 1409	Hera	-	21/MBRV-3	PAC-3 OT/DT-1	-	-	-	FW	LC96	-	-	114	-	-
2002-S28	2452390.04	2002 Apr 25 1300?	Storm-2	-	-	PAC-3 OT/DT-4	-	-	-	WS?	-	-	-	100?	-	-
2002-S35	2452424.58	2002 May 30 0200	SR19/SR19	-	MBRV-2	PAC-3 OT-2a	-	-	-	WAKE	-	-	-	270	-	-
2002-S67	2452562.60	2002 Oct 15 0223	Minuteman 2 PLV	-	PLV IFT-9	IFT-9 EKV	-	-	-	KMR	Meck	-	-	225	-	-
2002-S79	2452619.87	2002 Dec 11 0846	Minuteman 2 PLV	-	PLV IFT-10	IFT-10 EKV	-	-	-	KMR	Meck	-	-	225	-	-
2004-S16	2453128.67	2004 May 3 0406	LRALT	-	-	LRALT Demo	-	-	C-17	KAU?	RW16/34	MID	LP1	300?	-	-
2004-S85	2453243.50	2004 Aug 26	SRALT	-	Arrow Target	USFT-2 Target	CARAVAN-1 Target	-	C-17	PM?	RW03/21	WTR	LP2	150?	-	-
2004-S51	2453277.50	2004 Sep 29	SR19/SR19	?	-	CMP-4A (TCMP)	-	-	-	WAKE	-	-	-	200?	-	-
2004-S57	2453284.50	2004 Oct 6	SR19/SR19	?	-	CMP-4B (TCMP)	-	-	-	WAKE	-	-	-	200?	-	-
2004-S65	2453327.50	2004 Nov 18	Storm-2	-	PAC-3 DT/OT-12	MTTV-7	-	-	-	FW?	-	-	-	100?	-	-
2005-S38	2453639.50	2005 Sep 26	LRALT	-	-	COBRA DANE Test	-	-	C-17	HICK	RW08R/26L	MID	LP2	300?	-	-
2006-S15	2453838.50	2006 Apr 13	SR19/SR19	-	MBRV-3	CMCP FTC-02B (TCMP)	-	-	-	KAU	-	-	-	200?	-	-
2006-S17	2453853.50	2006 Apr 28	SR19/SR19	-	MBRV-3	CMCP FTC-02 (TCMP)	-	-	-	KAU	-	-	-	200?	-	-
2006-S41	2453928.97	2006 Jul 12 1117	Hera	-	THAAD FTT-03 Target	BRV	-	-	-	WS	FIX	-	-	300?	-	-
2006-S54	2453991.94	2006 Sep 13 1030	Hera	-	THAAD FTT-04 Target	BRV Sep?	-	-	-	WS	FIX?	-	-	100?	-	-
2007-S16	2454165.52	2007 Mar 6 0030	SRALT	-	-	SRALT?	-	-	C-17	HICK?	RW08R/26L	KAU	LP3	100?	-	-
2009-S19	2454916.06	2009 Mar 25 1325	Hera	-	-	PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2009-S35	2455035.32	2009 Jul 22 1945	LRALT	-	Arrow Target	CARAVAN	CARAVAN-2 Target	-	C-17	PM	RW03/21	WTR	W1	500?	-	-
2009-S55	2455091.11	2009 Sep 16 1440?	Hera	?	JASDF Target	PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2009-S67	2455120.02	2009 Oct 15 1229	Hera	-	ATM-48 Target	PAC-2 Target	-	-	-	FW	LC96	-	-	100?	-	-
2009-A09	2455176.50	2009 Dec 11	SRALT	?	THAAD FTT-11 Target	MBRV	-	-	C-17	HICK	RW08R/26L	KAU	LP3?	10?	-	-
2010-S81	2455244.50	2010 Feb 17	Juno	-	1/MBRV-3	PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2011-S06	2455623.07	2011 Mar 2 1340	Juno	-	2/MBRV-3	PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2011-S31	2455751.59	2011 Jul 9 0204	SRALT	-	-	FTX-17	-	-	C-17	PM	RW03/21	WTR	LP8	200?	-	-
2011-S45	2455839.75	2011 Oct 5 0556	SRALT	?	THAAD FTT-12 Target	-	-	-	C-17	HICK	RW08R/26L	MID	LP3?	100?	-	-
2012-S46	2456184.02	2012 Sep 13 1230	Juno	-	3?/MBRV-3?	PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2012-S60	2456225.50	2012 Oct 25?	E-LRALT	-	FTI-01	FTI-01 THAAD Target	-	-	C-17	HICK	RW08R/26L	WAKE	LP1	300?	-	-
2013-S08	2456336.88	2013 Feb 13 0910	MRBM-T3	-	Aegis FTM-20 target	MRBM-T3 Sep Target	[or ARAV-B]	-	-	KAU	-	-	-	150?	-	-
2013-S56	2456545.50	2013 Sep 10	eMRBM-T1	-	MBRV?	FTO-01 Aegis Target	-	-	-	WAKE	-	-	-	300?	-	-
2013-S58	2456545.50	2013 Sep 10	eMRBM	-	MBRV?	FTO-01 THAAD Target	-	-	C-17	HICK	RW08R/26L	WAKE	LP1?	300?	-	-
2014-S63	2456947.80	2014 Oct 17 0708	MRBM-T3	?	Aegis FTX-20 Target	Unknown	Pacific Wildcat	-	-	KAU	-	-	-	300?	-	-
2015-A39	2457299.50	2015 Oct 4	eMRBM	-	FTO-02 E2	FTO-02E2 Target	MBRV-7?	-	C-17	HICK	RW08R/26L	WAKE	LP2	10?	-	-
2015-S61	2457327.63	2015 Nov 1 0305	SRALT	-	FTO-02 E2a	FTO-02E2a Target	-	-	C-17	HICK	RW08R/26L	WAKE	LP2	300?	-	-
2015-S63	2457327.63	2015 Nov 1 0309:25	eMRBM	-	MBRV?	FTO-02E2a Target	MBRV-7?	-	C-17-E	HICK	RW08R/26L	PORC1	LP1	300?	-	-
2015-S89	2457367.08	2015 Dec 10 1355	Juno	-	5?/MBRV-3?	PAC-3 P8-4 Target	-	-	-	FW	LC96	-	-	100?	-	-
2016-S29	2457526.79	2016 May 18 0702	MRBM Target	-	Aegis FTX-21 Target	Pacific Phantom	-	-	-	KAU	-	-	-	300?	-	-
2016-S66	2457737.50	2016 Dec 15	MRBM Target	-	Aegis FTM-27 Target	Stellar Crossbow	-	-	-	KAU?	-	-	-	200?	-	-
2017-S65	2457964.50	2017 Jul 30	eMRBM	?	THAAD FET-1 Target	FET-1 Target	-	-	C-17	HICK	RW08R/26L	NPOR1	LP1	300?	-	-
2017-S75	2457994.50	2017 Aug 29	MRBM-T3	?	Aegis FTM-27E2 Targ	-	MRBM Target	-	-	KAU	-	-	-	200?	-	-
2017-S86	2458013.50	2017 Sep 17	Janus	-	MBRV?	Patriot Target	-	-	-	WAKE	-	-	-	300?	-	KMR
2018-S06	2458149.50	2018 Jan 31	eMRBM	?	-	FTM-29 Target	IRBM Target	-	C-17	HICK	RW08R/26L	WAKE	LP2?	300?	-	-
2018-S66	2458417.50	2018 Oct 26	MRBM-T3	?	Aegis FTM-45 Target	Med.Range Ballistic	-	-	-	KAU	-	-	-	150?	-	-
2019-S36	2458679.50	2019 Jul 15?	eMRBM	?	Arrow 3 Target?	-	CARAVAN-3 Target	-	C-17	HICK	RW08R/26L	NPOR1?	LP1	300?	-	-
2019-S38	2458686.50	2019 Jul 22?	eMRBM	?	Arrow 3 Target?	-	CARAVAN-3 Target	-	C-17	HICK	RW08R/26L	NPOR1?	LP1	300?	-	-
2019-S40	2458691.50	2019 Jul 27?	eMRBM	?	Arrow 3 Target?	-	CARAVAN-3 Target	-	C-17	HICK	RW08R/26L	NPOR1?	LP1	300?	-	-
2019-S48	2458725.50	2019 Aug 30	eMRBM	?	THAAD FTT-23 Target	-	-	-	C-17	HICK	RW08R/26L	JI?	LP3	300?	-	-
2023-S13	2460026.50	2023 Mar 23	Janus	?	MBRV?	Patriot Target	-	-	-	WAKE	-	-	-	300?	-	KMR
2023-A22	2460173.50	2023 Aug 17	MRBM Target	?	MBRV?	FTX-26 Target	ICBM Target	-	C-17	HICK?	-	NPOR1	LP2	10?	-	-
2024-S02	2460348.50	2024 Feb 8	MRBM-T2	-	Aegis FTX-23 Target	MRBM Target	-	-	C-17	HICK	RW08R/26L	KAU	LP6	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-S82	2460654.50	2024 Dec 10	MRBM Target	?	Aegis FEM-2	Guam Test	-	-	C-17	GUAMA	-	GUAMA	BOA1	300?	-	GUAM
2025-S12	2460758.50	2025 Mar 24	MRBM Target	1	Aegis FTX-40	HTV-1	Hypersonic Target Veh.	-	C-17	HICK	RW08R/26L	KAU	LP8	300?	-	-
2025-S26	2460850.50	2025 Jun 24	MRBM-T3	?	MBRV?	FTX-26a Target	ICBM Target	-	C-17	HICK?	-	NPOR1	LP2	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1995-S35	2449831.50	1995 Apr 24	Hera	-	1	0.000	USA/COLE	MS	-	-	Target	Coleman	AWST950501-25	-
1995-S64	2449992.50	1995 Oct 2	Hera	-	2	0.000	USA/COLE	MS	-	-	Target	Launchspace1-3	-	-
1996-S05	2450115.50	1996 Feb 2	Hera	-	3	0.000	USA/COLE	MS	-	-	Target	AWST960311-59	-	-
1996-S13	2450164.50	1996 Mar 22	Hera	-	4	0.000	USA/COLE	MS	-	-	Target	AWST960401-28	-	-
1996-S41	2450279.98	1996 Jul 15 1128	Hera	-	5	0.000	USA/COLE	MS	-	-	Target	www.wmsr.army.mil	Launchspace1-3	-
1996-S61	2450366.01	1996 Oct 9 1210	Hera	-	6	0.000	USA/COLE	MS	-	-	Target	TucsonCit961009	SN961028-20	-
1997-A04	2450477.50	1997 Jan 29	Storm-2	-	-	0.000	SSDC/OSCC	MF	U	-	Target	www.smdc.army.mil	Space98	-
1997-A05	2450479.41	1997 Jan 30 2155	AltAir	-	-	0.000	NAIC/SVC	MF	U	-	Test	AltAirRpt	SMDC-WWW	-
1997-S23	2450514.03	1997 Mar 6 1240	Hera	-	7	0.000	USA/COLE	MS	-	-	Target	Wire	AWST970324-33	-
1997-S48	2450623.67	1997 Jun 24 0400	Minuteman 2 PLV	-	PLV	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
1997-S62	2450715.50	1997 Sep 24	Storm-2	-	-	0.000	SSDC/OSCC	MS	-	-	Target	Wire	SMDC-WWW	-
1997-M04	2450770.05	1997 Nov 17 1310	Hera	-	8	0.000	USA/COLE	MF	U	-	Target	AlbqTrib971117	AWST980309-19	-
1998-S03	2450829.66	1998 Jan 16 0346	Minuteman 2 PLV	-	PLV	0.000	SSDC	MS	-	-	ABM Test	AWST980126-24	SN980119-2	-
1998-M01	2450875.04	1998 Mar 2 1301	Hera	-	9	0.000	USA/COLE	MS	-	-	Target	DenverPost	AWST980309-19	-
1998-S43	2450945.97	1998 May 12 1122	Hera	-	10	0.000	USA/COLE	MS	-	-	Target	www.smdc.army.mil	-	-
1998-S56	2451081.03	1998 Sep 24 1250	Storm-2	-	-	0.000	USA/OSCC	MS	-	-	Target	Wire	SMDC-WWW	-
1998-M03	2451161.50	1998 Dec 14	Hera	-	11	0.000	USA/COLE	MF	U	-	Target	BMDO-WWW	-	-
1998-S61	2451123.56	1998 Nov 6 0132	Juno	-	-	0.000	USAF/OSCC	MS	-	-	Test	Wire	-	-
1999-S13	2451253.08	1999 Mar 15 1349	Hera	-	12	0.000	USA/COLE	MS	-	-	Target	hobbes.crc.com	SN990329-26	-
1999-S19	2451267.01	1999 Mar 29 1213	Hera	-	13	0.000	USA/COLE	MS	-	-	Target	Wire	-	-
1999-S21	2451268.51	1999 Mar 31 0015	SRALT	-	-	0.000	USAF/COLE	MS	-	-	Test	hobbes.crc.com	-	-
1999-S33	2451323.97	1999 May 25 1114	Hera	-	14	0.000	USA/COLE	MF	U	-	Target	Wire	-	-
1999-S35	2451339.96	1999 Jun 10 1107	Hera	-	15	0.000	USA/COLE	MS	-	-	Target	SMDC-WWW	-	-
1999-S51	2451392.98	1999 Aug 2 1137	Hera	-	16	0.000	USA/COLE	MS	-	-	Target	AWST990809-29	-	-
1999-S59	2451427.50	1999 Sep 6	SR19/SR19	?	-	0.000	OSCC	MS	-	-	Reentry Test	Eagle0103-4	SMDC-WWW	-
1999-S61	2451438.06	1999 Sep 16 1326	Hera	-	17	0.000	SMDC/COLE	MS	-	-	Target	Rigg	SMDC-WWW	-
1999-S68	2451454.60	1999 Oct 3 0222	Minuteman 2 PLV	-	PLV	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
2000-S03	2451562.61	2000 Jan 19 0240	Minuteman 2 PLV	-	PLV	0.000	SSDC	MS	-	-	ABM Test	AWST000124-24	-	-
2000-M02	2451580.09	2000 Feb 5 1404	Hera	-	18	0.000	SSDC/COLE	MS	-	-	Target	Rigg	SMDC-WWW	-
2000-S60	2451832.06	2000 Oct 14 1330	Storm-2	-	PAC-3 DT-6	0.000	SSDC/OSCC	MS	-	-	Target	AlbqTrib001016	SMDC-WWW	-
2000-S42	2451733.69	2000 Jul 8 0440	Minuteman 2 PLV	-	PLV IFT-5	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
2001-S12	2451961.29	2001 Feb 20 1858	SR19/SR19	-	-	0.000	SSDC	MS	-	-	Sensors	Eagle0103-4	-	-
2001-S15	2451999.50	2001 Mar 31	Hera	-	19/MBRV-3	0.000	SSDC/COLE	MS	-	-	Target	SMDC-WWW	-	-
2001-S34	2452099.50	2001 Jul 9	Hera	-	20/MBRV-1E	0.000	SSDC/COLE	MS	-	-	Target	www.smdc.army.mil	-	-
2001-S36	2452105.63	2001 Jul 15 0301	Minuteman 2 PLV	-	PLV IFT-6	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
2001-S52	2452247.64	2001 Dec 4 0319?	Minuteman 2 PLV	-	PLV IFT-7	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
2002-S19	2452349.61	2002 Mar 16 0232	Minuteman 2 PLV	-	PLV IFT-8	0.000	SSDC	MS	-	-	ABM Test	Wire	-	-
2002-S22	2452355.09	2002 Mar 21 1409	Hera	-	21/MBRV-3	0.000	SSDC/COLE	MS	-	-	Target	www.acq.osd.mil	-	-
2002-S28	2452390.04	2002 Apr 25 1300?	Storm-2	-	-	0.000	SSDC/OSCC	MS	-	-	Target	redstone.army.mil	-	-
2002-S35	2452424.58	2002 May 30 0200	SR19/SR19	-	MBRV-2	0.000	SSDC	MS	-	-	Target	Rigg	-	-
2002-S67	2452562.60	2002 Oct 15 0223	Minuteman 2 PLV	-	PLV IFT-9	0.000	SSDC	MS	-	-	Target	Wire	-	-
2002-S79	2452619.87	2002 Dec 11 0846	Minuteman 2 PLV	-	PLV IFT-10	0.000	SSDC	MS	-	-	Target	Wire	-	-
2004-S16	2453128.67	2004 May 3 0406	LRALT	-	-	0.000	USA/COLE	MS	-	-	Test	www.crc.com	-	-
2004-S85	2453243.50	2004 Aug 26	SRALT	-	Arrow Target	0.000	MDA	MS	-	-	Test	flightglobal.com	-	-
2004-S51	2453277.50	2004 Sep 29	SR19/SR19	?	-	0.000	SMDC/MDA	MS	-	-	Target	SN041018-20	-	-
2004-S57	2453284.50	2004 Oct 6	SR19/SR19	?	-	0.000	SMDC/MDA	MS	-	-	Target	SN041018-20	-	-
2004-S65	2453327.50	2004 Nov 18	Storm-2	-	PAC-3 DT/OT-12	0.000	MDA/OSCC	MS	-	-	Target	www.orbital.com	-	-
2005-S38	2453639.50	2005 Sep 26	LRALT	-	-	0.000	MDA/COLE	MS	-	-	Target	Wire	-	-
2006-S15	2453838.50	2006 Apr 13	SR19/SR19	-	MBRV-3	0.000	SMDC/MDA	MS	-	-	Target	SN060417-02	-	-
2006-S17	2453853.50	2006 Apr 28	SR19/SR19	-	MBRV-3	0.000	SMDC/MDA	MS	-	-	Target	www.mda.mil	-	-
2006-S41	2453928.97	2006 Jul 12 1117	Hera	-	THAAD FTT-03 Target	0.000	MDA/COLE	MS	-	-	Target	www.mda.mil	-	-
2006-S54	2453991.94	2006 Sep 13 1030	Hera	-	THAAD FTT-04 Target	0.000	MDA/COLE	MF	U	-	Target	www.mda.mil	-	-
2007-S16	2454165.52	2007 Mar 6 0030	SRALT	-	-	0.000	MDA/OSCC	MS	-	-	Target	www.mda.mil	-	-
2009-S19	2454916.06	2009 Mar 25 1325	Hera	-	-	0.000	MDA/COLE	MS	-	-	Target	airforcetimes.com	-	-
2009-S35	2455035.32	2009 Jul 22 1945	LRALT	-	Arrow Target	0.000	MDA/COLE?	MS	-	-	Target	Wire	-	-
2009-S55	2455091.11	2009 Sep 16 1440?	Hera	?	JASDF Target	0.000	MDA	MS	-	-	Target	www.mod.go.jp	-	-
2009-S67	2455120.02	2009 Oct 15 1229	Hera	-	ATM-48 Target	0.000	MDA	MS	-	-	Target	AP	lockheedmartin.com	-
2009-A09	2455176.50	2009 Dec 11	SRALT	?	THAAD FTT-11 Target	0.000	MDA	MF	U	-	Target	www.mda.mil	-	-
2010-S81	2455244.50	2010 Feb 17	Juno	-	1/MBRV-3	0.000	MDA	MS	-	-	Target	Wire	-	-
2011-S06	2455623.07	2011 Mar 2 1340	Juno	-	2/MBRV-3	0.000	MDA	MS	-	-	Target	nasaspaceflight.com	-	-
2011-S31	2455751.59	2011 Jul 9 0204	SRALT	-	-	0.000	MDA/COLE	MS	-	-	Target	mda.mil	AWST110919-60	-
2011-S45	2455839.75	2011 Oct 5 0556	SRALT	?	THAAD FTT-12 Target	0.000	MDA/COLE	MS	-	-	Target	www.mda.mil	-	-
2012-S46	2456184.02	2012 Sep 13 1230	Juno	-	3?/MBRV-3?	0.000	MDA	MS	-	-	Target	spaceref.com	-	-
2012-S60	2456225.50	2012 Oct 25?	E-LRALT	-	FTI-01	0.000	MDA/COLE	MS	-	-	Target	www.mda.mil	-	-
2013-S08	2456336.88	2013 Feb 13 0910	MRBM-T3	-	Aegis FTM-20 target	0.000	MDA/SMDC	MS	-	-	Target	mda.mil	-	-
2013-S56	2456545.50	2013 Sep 10	eMRBM-T1	-	MBRV?	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2013-S58	2456545.50	2013 Sep 10	eMRBM	-	MBRV?	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2014-S63	2456947.80	2014 Oct 17 0708	MRBM-T3	?	Aegis FTX-20 Target	0.000	MDA/SMDC	MS	-	-	Target	mda.mil	-	-
2015-A39	2457299.50	2015 Oct 4	eMRBM	-	FTO-02 E2	0.000	MDA	MF	U	-	Target	www.mda.mil	-	-
2015-S61	2457327.63	2015 Nov 1 0305	SRALT	-	FTO-02 E2a	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2015-S63	2457327.63	2015 Nov 1 0309:25	eMRBM	-	MBRV?	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2015-S89	2457367.08	2015 Dec 10 1355	Juno	-	5?/MBRV-3?	0.000	MDA	MS	-	-	Target	nasaspaceflight.com	-	-
2016-S29	2457526.79	2016 May 18 0702	MRBM Target	-	Aegis FTX-21 Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2016-S66	2457737.50	2016 Dec 15	MRBM Target	-	Aegis FTM-27 Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2017-S65	2457964.50	2017 Jul 30	eMRBM	?	THAAD FET-1 Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2017-S75	2457994.50	2017 Aug 29	MRBM-T3	?	Aegis FTM-27E2 Targ	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2017-S86	2458013.50	2017 Sep 17	Janus	-	MBRV?	0.000	MDA	MS	-	-	Target	orbitalatk.com	-	-
2018-S06	2458149.50	2018 Jan 31	eMRBM	?	-	0.000	MDA	MS	-	-	Target	Wire	-	-
2018-S66	2458417.50	2018 Oct 26	MRBM-T3	?	Aegis FTM-45 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2019-S36	2458679.50	2019 Jul 15?	eMRBM	?	Arrow 3 Target?	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2019-S38	2458686.50	2019 Jul 22?	eMRBM	?	Arrow 3 Target?	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2019-S40	2458691.50	2019 Jul 27?	eMRBM	?	Arrow 3 Target?	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2019-S48	2458725.50	2019 Aug 30	eMRBM	?	THAAD FTT-23 Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2023-S13	2460026.50	2023 Mar 23	Janus	?	MBRV?	0.000	MDA	MS	-	-	Target	lockheedmartin.com	-	-
2023-A22	2460173.50	2023 Aug 17	MRBM Target	?	MBRV?	0.000	MDA	MF	-	-	Target	www.mda.mil	-	-
2024-S02	2460348.50	2024 Feb 8	MRBM-T2	-	Aegis FTX-23 Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-S82	2460654.50	2024 Dec 10	MRBM Target	?	Aegis FEM-2	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2025-S12	2460758.50	2025 Mar 24	MRBM Target	1	Aegis FTX-40	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2025-S26	2460850.50	2025 Jun 24	MRBM-T3	?	MBRV?	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-M06	2460433.72	2024 May 3 0510	SR75	-	1	-	-	-	-	KOON	-	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-M06	2460433.72	2024 May 3 0510	SR75	-	1	0.000	HYIMP	SS	-	HYIMP/	Test	tw/HyImpluseTech	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A217	2440431.50	1969 Jul 29	SRAM	-	Flight 1	-	-	B-52H	B-52GH	HADC?	RW07/25	WS	LP1	10?	-	WSMR
1970-A190	2440726.50	1970 May 20	SRAM	-	-	-	-	-	FB-111	HADC?	RW07/25	WS	LP1	10?	-	WSMR
1971-A223	2441154.50	1971 Jul 22	SRAM	-	Flight 40	-	-	-	B-52GH	HADC?	RW07/25	WS	LP1	10?	-	WSMR
1972-A160	2441483.50	1972 Jun 15	SRAM	-	Flight	-	-	B-52G Loring	B-52GH	HADC?	RW07/25	WS	LP1	10?	-	WSMR
1974-A32	2442279.96	1974 Aug 20 1109	SRAM	-	-	BULLET BLAST	-	-	B-52GH	GF	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1974-A87	2442387.50	1974 Dec 6	SRAM	-	-	BULLET BLAST	-	-	FB-111	TTR?	RW13/42	TTR	LP1	10?	-	TTR
1975-A15	2442496.96	1975 Mar 25 1101	SRAM	-	-	BULLET BLITZ II-1	-	-	B-52GH	GF	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A24	2442524.02	1975 Apr 21 1235	SRAM	-	-	BULLET BLITZ II-2	-	-	FB-111	PLATT	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A27	2442544.98	1975 May 12 1124	SRAM	-	-	BULLET BLITZ II-3	-	-	B-52GH	GF	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A28	2442545.00	1975 May 12 1154	SRAM	-	-	BULLET BLITZ II-4	-	-	B-52GH	GF	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A30	2442555.98	1975 May 23 1135	SRAM	-	-	BULLET BLITZ II-5	-	-	FB-111	PLATT	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A31	2442556.00	1975 May 23 1158	SRAM	-	-	BULLET BLITZ II-6	-	-	FB-111	PLATT	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A62	2442730.05	1975 Nov 13 1316	SRAM	-	-	-	-	-	B-52GH	GF?	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A63	2442731.02	1975 Nov 14 1230	SRAM	-	-	-	-	-	B-52GH	GF?	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1975-A65	2442741.05	1975 Nov 24 1315	SRAM	-	-	-	-	-	B-52GH	GF?	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1976-A22	2442883.00	1976 Apr 14 1201	SRAM	-	-	-	-	-	FB-111	PLATT?	-	ETR	GTIDZ	10?	-	GTIDZ
1976-A23	2442883.01	1976 Apr 14 1221	SRAM	-	-	-	-	-	FB-111	PLATT?	-	ETR	GTIDZ	10?	-	GTIDZ
1976-A77	2443127.00	1976 Dec 14 1200	SRAM	-	-	-	-	-	FB-111	PLATT	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1976-A78	2443127.01	1976 Dec 14 1220	SRAM	-	-	-	-	-	FB-111	PLATT	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1977-A19	2443248.00	1977 Apr 14 1159	SRAM	-	Case 29	-	-	-	B-52GH	ELLS	RW13/31	ETR	GTIDZ	10?	-	GTIDZ
1977-A51	2443492.04	1977 Dec 14 1254	SRAM	-	Case 33	-	-	-	B-52GH	BARK	RW15/33	ETR	GTIDZ	10?	-	GTIDZ
1978-A08	2443569.00	1978 Mar 1 1200	SRAM	-	Case 34	-	-	B-52G	B-52GH	ROBI	RW15/33	ETR	GTIDZ	10?	-	GTIDZ
1978-A34	2443709.99	1978 Jul 20 1149	SRAM	-	Case 30	-	-	-	B-52GH	GF	RW17/35	ETR	GTIDZ	10?	-	GTIDZ
1978-A55	2443856.00	1978 Dec 13 1158	SRAM	-	Case 33	-	-	-	B-52GH	WURT	RW07/25	ETR	GTIDZ	10?	-	GTIDZ
1979-A02	2443891.04	1979 Jan 17 1252:41	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A03	2443893.02	1979 Jan 19 1229:38	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A04	2443893.00	1979 Jan 19 1159:20	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A08	2443912.00	1979 Feb 7 1157:09	SRAM	-	-	-	-	-	B-52GH	GFX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A45	2444206.00	1979 Nov 28 1201:28	SRAM	-	-	-	-	-	B-52GH	GFX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A46	2444220.02	1979 Dec 12 1225:12	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1979-A47	2444220.00	1979 Dec 12 1159:36	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1980-A06	2444276.00	1980 Feb 6 1201:42	SRAM	-	-	-	-	-	B-52GH	GFX	-	ETR	GTIDZ	10?	-	GTIDZ?
1980-A64	2444412.50	1980 Jun 22	SRAM	-	-	-	-	-	B-52GH	KMR?	-	KMR	-	10?	-	KMR
1980-A42	2444549.01	1980 Nov 5 1207:49	SRAM	-	-	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1981-A33	2444948.00	1981 Dec 9 1200:52	SRAM	-	Case 85	-	-	-	FB-111	PLATX	-	ETR	GTIDZ	10?	-	GTIDZ?
1983-A25	2445507.96	1983 Jun 22 1058:41	SRAM	-	-	-	-	-	B-52GH	GFX	-	ETR	GTIDZ	10?	-	GTIDZ?
1983-A27	2445541.98	1983 Jul 26 1129:54	SRAM	-	-	-	-	-	B-52GH	GFX	-	ETR	GTIDZ	10?	-	GTIDZ?
1984-S44	2445721.29	1984 Jan 21 1852:30	ASAT	-	-	-	-	-	F-15A-086	EAFB	RW04/22?	WTR	LP11	1000	-	WTR
1984-S130	2446018.35	1984 Nov 13 2017	ASAT	-	-	-	-	-	F-15A-08x	EAFB	RW04/22?	WTR	LP11	1000	-	WTR
1985-S118	2446322.36	1985 Sep 13 2040?	ASAT	-	-	Celestial Eagle	-	-	F-15A-084	EAFB	RW04/22?	WTR	LP11	500	-	WTR
1986-S80	2446664.50	1986 Aug 22	ASAT	-	-	-	-	-	F-15A-08x	EAFB	RW04/22?	WTR	LP11	1000	-	WTR
1986-S100	2446703.95	1986 Sep 30 1045?	ASAT	-	-	-	-	-	F-15A-08x	EAFB	RW04/22?	WTR	LP11	1000	-	WTR
1987-A41	2446811.50	1987 Jan 16	SRAM	-	-	-	-	-	B-1B	TTR	RW13/42	TTR	LP1	10?	-	TTR
1987-A42	2446949.50	1987 Jun 3	SRAM	-	-	-	-	-	B-1B	DYESS	RW16/34	TTR	LP1	10?	-	TTR

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A217	2440431.50	1969 Jul 29	SRAM	-	Flight 1	0.000	SAMSO	MS	-	-	Test	SACMissileChron	-	-
1970-A190	2440726.50	1970 May 20	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	SACMissileChron	-	-
1971-A223	2441154.50	1971 Jul 22	SRAM	-	Flight 40	0.000	SAMSO	MS	-	-	Test	kritland.af.mil	-	-
1972-A160	2441483.50	1972 Jun 15	SRAM	-	Flight	0.000	SAMSO	MS	-	-	Test	SACMissileChron	-	-
1974-A32	2442279.96	1974 Aug 20 1109	SRAM	-	-	0.000	SAMSO	MF	U	-	Test	ETR-IDX-FY75	-	-
1974-A87	2442387.50	1974 Dec 6	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A15	2442496.96	1975 Mar 25 1101	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A24	2442524.02	1975 Apr 21 1235	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A27	2442544.98	1975 May 12 1124	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A28	2442545.00	1975 May 12 1154	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A30	2442555.98	1975 May 23 1135	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A31	2442556.00	1975 May 23 1158	SRAM	-	-	0.000	SAMSO	MS	-	-	Test	ETR-IDX-FY75	-	-
1975-A62	2442730.05	1975 Nov 13 1316	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76	-	-
1975-A63	2442731.02	1975 Nov 14 1230	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76	-	-
1975-A65	2442741.05	1975 Nov 24 1315	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76	-	-
1976-A22	2442883.00	1976 Apr 14 1201	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76	-	-
1976-A23	2442883.01	1976 Apr 14 1221	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76	-	-
1976-A77	2443127.00	1976 Dec 14 1200	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76B	-	-
1976-A78	2443127.01	1976 Dec 14 1220	SRAM	-	-	0.000	SAC	MS	-	-	Test	ETR-IDX-FY76B	-	-
1977-A19	2443248.00	1977 Apr 14 1159	SRAM	-	Case 29	0.000	SAC	MS	-	-	Test	ETR-IDX-CY77	-	-
1977-A51	2443492.04	1977 Dec 14 1254	SRAM	-	Case 33	0.000	SAC	MS	-	-	Test	ETR-IDX-CY77	-	-
1978-A08	2443569.00	1978 Mar 1 1200	SRAM	-	Case 34	0.000	SAC	MS	-	-	Test	ETR-IDX-CY78	-	-
1978-A34	2443709.99	1978 Jul 20 1149	SRAM	-	Case 30	0.000	SAC	MS	-	-	Test	ETR-IDX-CY78	-	-
1978-A55	2443856.00	1978 Dec 13 1158	SRAM	-	Case 33	0.000	SAC	MS	-	-	Test	ETR-IDX-CY78	-	-
1979-A02	2443891.04	1979 Jan 17 1252:41	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A03	2443893.02	1979 Jan 19 1229:38	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A04	2443893.00	1979 Jan 19 1159:20	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A08	2443912.00	1979 Feb 7 1157:09	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A45	2444206.00	1979 Nov 28 1201:28	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A46	2444220.02	1979 Dec 12 1225:12	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1979-A47	2444220.00	1979 Dec 12 1159:36	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1980-A06	2444276.00	1980 Feb 6 1201:42	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1980-A64	2444412.50	1980 Jun 22	SRAM	-	-	0.000	SAC	MU	-	-	Test	KMRHist79	-	-
1980-A42	2444549.01	1980 Nov 5 1207:49	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1981-A33	2444948.00	1981 Dec 9 1200:52	SRAM	-	Case 85	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1983-A25	2445507.96	1983 Jun 22 1058:41	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1983-A27	2445541.98	1983 Jul 26 1129:54	SRAM	-	-	0.000	SAC	MU	-	-	Test	Cleary95	-	-
1984-S44	2445721.29	1984 Jan 21 1852:30	ASAT	-	-	0.000	AFSD	TS	-	-	Test	ASAT-doc1	-	-
1984-S130	2446018.35	1984 Nov 13 2017	ASAT	-	-	0.000	AFSD	TS	-	-	Interceptor	DeseretNews841114	AWST841119-28	-
1985-S118	2446322.36	1985 Sep 13 2040?	ASAT	-	-	0.000	AFSD	TS	-	-	Interceptor	SvenGrahn	AWST850923-20	-
1986-S80	2446664.50	1986 Aug 22	ASAT	-	-	0.000	AFSD	TS	-	-	Interceptor	AWST860901-45	-	-
1986-S100	2446703.95	1986 Sep 30 1045?	ASAT	-	-	0.000	AFSD	TS	-	-	Interceptor	JCM	-	-
1987-A41	2446811.50	1987 Jan 16	SRAM	-	-	0.000	SAC	MS	-	-	Test	USAFChron	-	-
1987-A42	2446949.50	1987 Jun 3	SRAM	-	-	0.000	SAC	MS	-	-	Test	USAFChron	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2009-A06	2455133.15	2009 Oct 28 1530:00	Ares I-X	-	Ares I-X	USS/CMLAS	-	-	MLP1	KSC	LC39B	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2009-A06	2455133.15	2009 Oct 28 1530:00	Ares I-X	-	Ares I-X	0.000	MSFC	SS	-	JSC/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2003-A03	2452779.50	2003 May 20	Spaceship One	-	24C/01C	-	-	-	WK1	MHV	RW12/30	-	-	14	-	-
2003-A05	2452849.50	2003 Jul 29	Spaceship One	-	29C/02C	-	-	-	WK1	MHV	RW12/30	-	-	14	-	-
2003-A06	2452859.11	2003 Aug 7 1437	Spaceship One	-	30L/03G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A07	2452878.50	2003 Aug 27	Spaceship One	-	31LC/04GC	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A08	2452878.50	2003 Aug 27	Spaceship One	-	32L/05G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A09	2452905.50	2003 Sep 23	Spaceship One	-	37L/06G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A10	2452929.50	2003 Oct 17	Spaceship One	-	38L/07G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A12	2452957.50	2003 Nov 14	Spaceship One	-	40L/08G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A13	2452962.50	2003 Nov 19	Spaceship One	-	41L/09G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A14	2452977.50	2003 Dec 4	Spaceship One	-	42L/10G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2003-A16	2452991.18	2003 Dec 17 1615	Spaceship One	-	43L/11P	-	-	-	WK1	MHV	RW12/30	MHV	LP1	20	-	-
2004-A02	2453075.50	2004 Mar 11	Spaceship One	-	49L/12G	-	-	-	WK1	MHV	RW12/30	MHV	LP1	14	-	-
2004-A04	2453104.13	2004 Apr 8 1511	Spaceship One	-	53L/13P	-	-	-	WK1	MHV	RW12/30	MHV	LP1	32	-	-
2004-M01	2453139.15	2004 May 13 1531	Spaceship One	-	56L/14P	-	-	-	WK1	MHV	RW12/30	MHV	BAR	64	-	-
2004-S22	2453178.12	2004 Jun 21 1450	Spaceship One	-	60L/15P	-	-	-	WK1	MHV	RW30	MHV	BAR	100	-	-
2004-S53	2453278.13	2004 Sep 29 1509:53	Spaceship One	-	65L/16P	-	-	-	WK1	MHV	RW30	MHV	BAR	103	-	-
2004-S56	2453283.12	2004 Oct 4 1449:11	Spaceship One	-	66L/17P	-	-	-	WK1	MHV	RW30	MHV	BAR	112	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2003-A03	2452779.50	2003 May 20	Spaceship One	-	24C/01C	0.000	SCAL	YS	-	-	Test	scaled.com	-	-
2003-A05	2452849.50	2003 Jul 29	Spaceship One	-	29C/02C	0.000	SCAL	YS	-	SCAL/Melvill 0:00	Test	scaled.com	-	-
2003-A06	2452859.11	2003 Aug 7 1437	Spaceship One	-	30L/03G	0.000	SCAL	YS	-	SCAL/Melvill 19:00	Test	scaled.com	-	-
2003-A07	2452878.50	2003 Aug 27	Spaceship One	-	31LC/04GC	0.000	SCAL	YS	-	SCAL/Melvill 0:00	Test	scaled.com	-	-
2003-A08	2452878.50	2003 Aug 27	Spaceship One	-	32L/05G	0.000	SCAL	YS	-	SCAL/Melvill 10:30	Test	scaled.com	-	-
2003-A09	2452905.50	2003 Sep 23	Spaceship One	-	37L/06G	0.000	SCAL	YS	-	SCAL/Melvill 12:15	Test	scaled.com	-	-
2003-A10	2452929.50	2003 Oct 17	Spaceship One	-	38L/07G	0.000	SCAL	YS	-	SCAL/Melvill 17:49	Test	scaled.com	-	-
2003-A12	2452957.50	2003 Nov 14	Spaceship One	-	40L/08G	0.000	SCAL	YS	-	SCAL/Siebold 19:55	Test	scaled.com	-	-
2003-A13	2452962.50	2003 Nov 19	Spaceship One	-	41L/09G	0.000	SCAL	YS	-	SCAL/Melvill 12:25	Test	scaled.com	-	-
2003-A14	2452977.50	2003 Dec 4	Spaceship One	-	42L/10G	0.000	SCAL	YS	-	SCAL/Binnie 13:14	Test	scaled.com	-	-
2003-A16	2452991.18	2003 Dec 17 1615	Spaceship One	-	43L/11P	0.000	SCAL	YS	-	SCAL/Binnie 18:10	Test	scaled.com	-	-
2004-A02	2453075.50	2004 Mar 11	Spaceship One	-	49L/12G	0.000	SCAL	YS	-	SCAL/Siebold 18:30	Test	scaled.com	-	-
2004-A04	2453104.13	2004 Apr 8 1511	Spaceship One	-	53L/13P	0.000	SCAL	YS	-	SCAL/Siebold 16:27	Test	scaled.com	-	-
2004-M01	2453139.15	2004 May 13 1531	Spaceship One	-	56L/14P	0.000	SCAL	YS	-	SCAL/Melvill 20:44	Test	scaled.com	-	-
2004-S22	2453178.12	2004 Jun 21 1450	Spaceship One	-	60L/15P	0.000	SCAL	YS	-	SCAL/Melvill 24:05	Test	Wire	-	-
2004-S53	2453278.13	2004 Sep 29 1509:53	Spaceship One	-	65L/16P	0.000	SCAL	YS	-	SCAL/Melvill 24:00	Test	www.xprize.org	-	-
2004-S56	2453283.12	2004 Oct 4 1449:11	Spaceship One	-	66L/17P	0.000	SCAL	YS	-	SCAL/Binnie 24:00	Test	www.xprize.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2010-A09	2455277.50	2010 Mar 22	Spaceship Two	-	-	WK2-25/CC01	-	-	WK2	MHV	-	-	-	10?	-	MHV
2010-A10	2455332.50	2010 May 16	Spaceship Two	-	-	WK2-27/CC02	-	-	WK2	MHV	-	-	-	15	-	MHV
2010-A11	2455392.50	2010 Jul 15	Spaceship Two	-	-	WK2-33/CC03	-	-	WK2	MHV	-	-	-	10?	-	MHV
2010-A12	2455469.50	2010 Sep 30	Spaceship Two	-	-	WK2-39/CC04	-	-	WK2	MHV	-	-	-	10?	-	MHV
2010-A06	2455479.50	2010 Oct 10	Spaceship Two	-	VSS Enterprise	WK2-41/GF01	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2010-A13	2455491.50	2010 Oct 22	Spaceship Two	-	-	WK2-42/CC05	-	-	WK2	MHV	-	-	-	10?	-	SPAM
2010-A14	2455491.50	2010 Oct 22	Spaceship Two	-	-	WK2-43/CC06	-	-	WK2	SPAM	-	-	-	10?	-	MHV
2010-A07	2455497.50	2010 Oct 28	Spaceship Two	-	VSS Enterprise	WK2-44/GF02	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2010-A08	2455517.50	2010 Nov 17	Spaceship Two	-	VSS Enterprise	WK2-45/GF03	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2011-A29	2455574.50	2011 Jan 13	Spaceship Two	-	VSS Enterprise	WK2-47/GF04	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2011-A30	2455606.50	2011 Feb 14	Spaceship Two	-	-	WK2-48/05GC-CC07	-	-	WK2	MHV	RW12/30	MHV	LP3	10?	-	MHV
2011-A06	2455607.50	2011 Feb 15	Spaceship Two	-	-	WK2-49/05GC-CC08	-	-	WK2	MHV	RW12/30	-	-	10?	-	MHV
2011-A07	2455657.50	2011 Apr 6	Spaceship Two	-	-	WK2-52/CC09	-	-	WK2	MHV	RW12/30	-	-	10?	-	SFO
2011-A08	2455658.50	2011 Apr 7	Spaceship Two	-	-	WK2-53/CC10	-	-	WK2	SFO	-	-	-	10?	-	MHV
2011-A09	2455665.50	2011 Apr 14	Spaceship Two	-	-	WK2-55/CC11	-	-	WK2	MHV	RW12/30	-	-	14?	-	MHV
2011-A10	2455673.50	2011 Apr 22	Spaceship Two	-	VSS Enterprise	WK2-56/GF05	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2011-A11	2455678.50	2011 Apr 27	Spaceship Two	-	VSS Enterprise	WK2-57/GF06	-	-	WK2	MHV	RW12/30	MHV	LP3	14	-	MHV
2011-A12	2455686.10	2011 May 4 1428	Spaceship Two	-	VSS Enterprise	WK2-58/GF07	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2011-A13	2455691.50	2011 May 10	Spaceship Two	-	VSS Enterprise	WK2-59/GF08	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A14	2455700.50	2011 May 19	Spaceship Two	-	VSS Enterprise	WK2-60/GF09	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A15	2455706.50	2011 May 25	Spaceship Two	-	VSS Enterprise	WK2-61/GF10	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A16	2455721.50	2011 Jun 9	Spaceship Two	-	-	WK2-62/CC12	-	-	WK2	MHV	RW12/30	-	-	15?	-	MHV
2011-A17	2455726.50	2011 Jun 14	Spaceship Two	-	VSS Enterprise	WK2-64/GF11	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A18	2455727.50	2011 Jun 15	Spaceship Two	-	VSS Enterprise	WK2-65/GF12	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A19	2455733.50	2011 Jun 21	Spaceship Two	-	VSS Enterprise	WK2-66/GF13	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A20	2455735.50	2011 Jun 23	Spaceship Two	-	VSS Enterprise	WK2-67/GF14	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A21	2455739.50	2011 Jun 27	Spaceship Two	-	VSS Enterprise	WK2-68/GF15	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2011-A28	2455833.50	2011 Sep 29	Spaceship Two	-	VSS Enterprise	WK2-73/GF16	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2012-A03	2456104.50	2012 Jun 26	Spaceship Two	-	VSS Enterprise	WK2-87/GF17	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A04	2456107.50	2012 Jun 29	Spaceship Two	-	VSS Enterprise	WK2-88/GF18	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A05	2456126.50	2012 Jul 18	Spaceship Two	-	VSS Enterprise	WK2-90/GF19	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A06	2456141.50	2012 Aug 2	Spaceship Two	-	VSS Enterprise	WK2-91/GF20	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A08	2456146.50	2012 Aug 7	Spaceship Two	-	VSS Enterprise	WK2-92/GF21	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A09	2456150.50	2012 Aug 11	Spaceship Two	-	VSS Enterprise	WK2-93/GF22	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2012-A26	2456280.50	2012 Dec 19	Spaceship Two	-	VSS Enterprise	WK2-109/GF23	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2013-A04	2456386.15	2013 Apr 3 1531	Spaceship Two	-	VSS Enterprise	WK2-113/GF24	-	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2013-A05	2456394.50	2013 Apr 12	Spaceship Two	-	VSS Enterprise	WK2-114/CF01	Cold Flow	-	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2013-A07	2456412.12	2013 Apr 29 1447	Spaceship Two	-	VSS Enterprise	WK2-115/PF01	-	-	WK2	MHV	RW12/30	MHV	LP3	17	-	MHV
2013-A13	2456498.50	2013 Jul 25	Spaceship Two	-	VSS Enterprise	WK2-130/GF25	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2013-A14	2456513.12	2013 Aug 8 1450?	Spaceship Two	-	VSS Enterprise	WK2-131/GF26	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2013-A15	2456541.17	2013 Sep 5 1611	Spaceship Two	-	VSS Enterprise	WK2-132/PF02	-	-	WK2	MHV	RW12/30	MHV	LP3	21	-	MHV
2013-A26	2456638.24	2013 Dec 11 1745?	Spaceship Two	-	VSS Enterprise	WK2-145/GF27	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2014-A01	2456668.17	2014 Jan 10 1600?	Spaceship Two	-	VSS Enterprise	WK2-147/PF03	-	-	WK2	MHV	RW12/30	MHV	LP3	22	-	MHV
2014-A03	2456675.21	2014 Jan 17 1700?	Spaceship Two	-	VSS Enterprise	WK2-149/GF28 51	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2014-A31	2456868.37	2014 Jul 29 2049?	Spaceship Two	-	VSS Enterprise	WK2-156/GF29	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2014-A32	2456898.12	2014 Aug 28 1453?	Spaceship Two	-	VSS Enterprise	WK2-164/CF02	Cold Flow	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2014-A34	2456938.17	2014 Oct 7 1600?	Spaceship Two	-	VSS Enterprise	WK2-170/GF30	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2014-A36	2456962.21	2014 Oct 31 1709	Spaceship Two	-	VSS Enterprise	WK2-173/PF04	-	-	WK2	MHV	RW12/30	MHV	LP3	15?	-	MHV
2016-A39	2457640.29	2016 Sep 8 1904	Spaceship Two	-	VSS Unity	WK2-2xx/VG-001 CC2-01	-	N202VG-001	WK2	MHV	RW12/30	-	-	10?	-	MHV
2016-A43	2457694.06	2016 Nov 1 1330?	Spaceship Two	-	VSS Unity	WK2-215/VG-002 CC2-02	-	N202VG-002	WK2	MHV	RW12/30	-	-	15	-	MHV
2016-A44	2457696.06	2016 Nov 3 1330?	Spaceship Two	-	VSS Unity	WK2-216/VG-003 CC2-03	-	N202VG-003	WK2	MHV	RW12/30	-	-	15	-	MHV
2016-A45	2457723.42	2016 Nov 30 2207	Spaceship Two	-	VSS Unity	WK2-217/VG-004 CC2-04	-	N202VG-004	WK2	MHV	RW12/30	-	-	15	-	MHV
2016-A46	2457726.15	2016 Dec 3 1540	Spaceship Two	-	VSS Unity	WK2-218/VG-005 GF	Glide 1	N202VG-005	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2016-A49	2457745.42	2016 Dec 22 2200?	Spaceship Two	-	VSS Unity	WK2-221/VG-006 GF	Glide 2	N202VG-006	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2017-A02	2457809.26	2017 Feb 24 1810?	Spaceship Two	-	VSS Unity	WK2-226/VG-007 GF	Glide 3	N202VG-007	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2017-A05	2457875.23	2017 May 1 1738?	Spaceship Two	-	VSS Unity	WK2-227/VG-008 GF	Feather test	N202VG-008	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2017-A06	2457906.25	2017 Jun 1 1755?	Spaceship Two	-	VSS Unity	WK2-230/VG-009 GF	Water ballast test	N202VG-009	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2017-A09	2457969.50	2017 Aug 4	Spaceship Two	-	VSS Unity	WK2-234/VG-010 GF	Glide 6	N202VG-010	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2018-A01	2458129.50	2018 Jan 11	Spaceship Two	-	VSS Unity	WK2-242/VG-011 GF	Glide 7	N202VG-011	WK2	MHV	RW12/30	MHV	LP3	15	-	MHV
2018-A42	2458213.50	2018 Apr 5	Spaceship Two	-	VSS Unity	WK2-246/VG-012 VP-01	-	N202VG-012	WK2	MHV	RW12/30	MHV	LP3	26	-	MHV
2018-A85	2458267.50	2018 May 29	Spaceship Two	-	VSS Unity	WK2-249/VG-013 VP-01-2	-	N202VG-013	WK2	MHV	RW12/30	MHV	LP3	35	-	MHV
2018-M04	2458326.20	2018 Jul 26 1644	Spaceship Two	-	VSS Unity	WK2-252/VG-014 VP-02	-	N202VG-014	WK2	MHV	RW12/30	MHV	KVAL	52	-	MHV
2018-S79	2458466.17	2018 Dec 13 1559:39	Spaceship Two	-	VSS Unity	WK2-261/VG-015 VP-03	-	N202VG-015	WK2	MHV	RW12/30	MHV	KVAL	82	-	MHV
2019-S08	2458537.20	2019 Feb 22 1653:40	Spaceship Two	-	VSS Unity	WK2-264/VG-016 VF-01	-	N202VG-016	WK2	MHV	RW12/30	MHV	KVAL	90	-	MHV
2020-A09	2458893.29	2020 Feb 13 1859	Spaceship Two	-	VSS Unity	WK2-2xx/VG-017 CC2	-	N202VG-017	WK2	MHV	RW12/30	-	-	15	-	SPAM RW34
2020-A11	2458971.15	2020 May 1 1540	Spaceship Two	-	VSS Unity	WK2-279/VG-018 VG-09	Glide 8	N202VG-018	WK2	SPAM	RW16/34	SPAM	EBR P1	15	-	SPAM
2020-A14	2459026.15	2020 Jun 25 1533:44	Spaceship Two	-	VSS Unity	WK2-284/VG-019 VG-10	Glide 9	N202VG-019	WK2	SPAM	RW16/34	SPAM	EBR P2	15	-	SPAM
2020-A22	2459196.18	2020 Dec 12 1616:50?	Spaceship Two	-	VSS Unity	WK2-288/VG-020 VF-02	Unity 20	N202VG-020	WK2	SPAM	RW16/34	SPAM	EBR P2	15	-	SPAM
2021-S26	2459357.14	2021 May 22 1526	Spaceship Two	-	VSS Unity	WK2-294/VG-021 VF-02-2	Unity 21	N202VG-021	WK2	SPAM	RW16/34	SPAM	EBR P3	89	-	SPAM
2021-S41	2459407.14	2021 Jul 11 1524:17	Spaceship Two	-	VSS Unity	WK2-295/VG-022 VH-01	Unity 22	N202VG-022	WK2	SPAM	RW16/34	SPAM	EBR P4	85	-	SPAM
2023-A15	2460052.07	2023 Apr 17 1336	Spaceship Two	-	VSS Unity	WK2-xxx/VG-023 CC	Unity 23?	N202VG-023	WK2	SPAM	RW16/34	-	-	14	-	SPAM
2023-A13	2460061.07	2023 Apr 26 1347	Spaceship Two	-	VSS Unity	WK2-xxx/VG-024	Unity 24	N202VG-024	WK2	SPAM	RW16/34	SPAM	EBR P3	14	-	SPAM
2023-S26	2460090.18	2023 May 25 1623:04	Spaceship Two	-	VSS Unity	WK2-312/VG-025	Unity 25	N202VG-025	WK2	SPAM	RW16/34	SPAM	EBR P3	87	-	SPAM
2023-S31	2460125.14	2023 Jun 29 1528:37	Spaceship Two	-	VSS Unity	WK2-317/VG-026	Galactic 01	N202VG-026	WK2	SPAM	RW16/34	SPAM	EBR P3	87	-	SPAM
2023-S34	2460167.14	2023 Aug 10 1517:10	Spaceship Two	-	VSS Unity	WK2-324/VG-027	Galactic 02	N202VG-027	WK2	SPAM	RW16/34	SPAM	EBR P3	88	-	SPAM
2023-S38	2460196.14	2023 Sep 8 1522:13	Spaceship Two	-	VSS Unity	WK2-327/VG-028	Galactic 03	N202VG-028	WK2	SPAM	RW16/34	SPAM	EBR P3	88	-	SPAM
2023-S42	2460224.17	2023 Oct 6 1610:33	Spaceship Two	-	VSS Unity	WK2-332/VG-029	Galactic 04	N202VG-029	WK2	SPAM	RW16/34	SPAM	EBR P3	87	-	SPAM
2023-S54	2460251.16	2023 Nov 2 1544:40	Spaceship Two	-	VSS Unity	WK2-337/VG-030	Galactic 05	N202VG-030	WK2	SPAM	RW16/34	SPAM	EBR P3	87	-	SPAM
2024-S01	2460336.24	2024 Jan 26 1742:05	Spaceship Two	-	VSS Unity	WK2-xxx/VG-031	Galactic 06	N202VG-031	WK2	SPAM	RW16/34	SPAM	EBR P3	87?	-	SPAM
2024-S37	2460470.14	2024 Jun 8 1526:30	Spaceship Two	-	VSS Unity	WK2-xxx/VG-032	Galactic 07	N202VG-032	WK2	SPAM	RW16/34	SPAM	EBR P3	87?	-	SPAM

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2010-A09	2455277.50	2010 Mar 22	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Unmanned carry	Captive carry	scaled.com	-	-
2010-A10	2455332.50	2010 May 16	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Unmanned carry	Captive carry	scaled.com	-	-
2010-A11	2455392.50	2010 Jul 15	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	Captive carry	scaled.com	-	-
2010-A12	2455469.50	2010 Sep 30	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	Captive carry	scaled.com	-	-
2010-A06	2455479.50	2010 Oct 10	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	Glide 13:00	scaled.com	-	-
2010-A13	2455491.50	2010 Oct 22	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Umanned carry	To Spaceport America	scaled.com	-	-
2010-A14	2455491.50	2010 Oct 22	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Umanned carry	Spaceport Am. to MHV	scaled.com	-	-
2010-A07	2455497.50	2010 Oct 28	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Alsbury	Glide 10:51	scaled.com	-	-
2010-A08	2455517.50	2010 Nov 17	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Nichols	Glide 11:39	scaled.com	-	-
2011-A29	2455574.50	2011 Jan 13	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	Glide 11:34	scaled.com	-	-
2011-A30	2455606.50	2011 Feb 14	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	WX abort, 1.4hr	scaled.com	-	-
2011-A06	2455607.50	2011 Feb 15	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	WX abort, 1.8hr	scaled.com	-	-
2011-A07	2455657.50	2011 Apr 6	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Umanned carry	Mojave to SFO T2 display	scaled.com	-	-
2011-A08	2455658.50	2011 Apr 7	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Umanned carry	SFO T2 to Mojave	scaled.com	-	-
2011-A09	2455665.50	2011 Apr 14	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Stucky,Kalogiannis	Flt 3.7h, checkouts	scaled.com	-	-
2011-A10	2455673.50	2011 Apr 22	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Shane	Glide 14:31	scaled.com	-	-
2011-A11	2455678.50	2011 Apr 27	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Alsbury	Glide 16:07	scaled.com	-	-
2011-A12	2455686.10	2011 May 4 1428	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Nichols	Glide 11:05	scaled.com	-	-
2011-A13	2455691.50	2011 May 10	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Shane	Glide 13:02 Feather	scaled.com	-	-
2011-A14	2455700.50	2011 May 19	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Binnie	Glide 11:32	scaled.com	-	-
2011-A15	2455706.50	2011 May 25	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Binnie	Glide 10:14 Feather	scaled.com	-	-
2011-A16	2455721.50	2011 Jun 9	Spaceship Two	-	-	0.000	SCAL	YS	-	SCAL/Siebold,Shane	Flt 1.4h, abort drop	scaled.com	-	-
2011-A17	2455726.50	2011 Jun 14	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Shane	Glide 13:18	scaled.com	-	-
2011-A18	2455727.50	2011 Jun 15	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	Glide 10:32	scaled.com	-	-
2011-A19	2455733.50	2011 Jun 21	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Nichols	Glide 8:55	scaled.com	-	-
2011-A20	2455735.50	2011 Jun 23	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	Glide 7:33	scaled.com	-	-
2011-A21	2455739.50	2011 Jun 27	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Binnie	Glide 7:39	scaled.com	-	-
2011-A28	2455833.50	2011 Sep 29	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nic.,Persall	Glide 7:15	scaled.com	-	-
2012-A03	2456104.50	2012 Jun 26	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	Glide 11:22	scaled.com	-	-
2012-A04	2456107.50	2012 Jun 29	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Mackay	Glide 13:00	scaled.com	-	-
2012-A05	2456126.50	2012 Jul 18	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Nichols	Glide 10:39	scaled.com	-	-
2012-A06	2456141.50	2012 Aug 2	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	Glide 8:00	scaled.com	-	-
2012-A08	2456146.50	2012 Aug 7	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Colmer	Glide 9:52	scaled.com	-	-
2012-A09	2456150.50	2012 Aug 11	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Binnie	Glide 8:02	scaled.com	-	-
2012-A26	2456280.50	2012 Dec 19	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Alsbury	Glide 13:24	scaled.com	-	-
2013-A04	2456386.15	2013 Apr 3 1531	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	Glide 9	scaled.com	-	TO time 1418
2013-A05	2456394.50	2013 Apr 12	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Alsbury	Glide 10.8	scaled.com	-	-
2013-A07	2456412.12	2013 Apr 29 1447	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Alsbury	13 /0:16	scaled.com	-	-
2013-A13	2456498.50	2013 Jul 25	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Mackay	Glide 11:52	scaled.com	-	-
2013-A14	2456513.12	2013 Aug 8 1450?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Mackay	Glide 10	scaled.com	-	-
2013-A15	2456541.17	2013 Sep 5 1611	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Nichols	14 /0:20	scaled.com	-	-
2013-A26	2456638.24	2013 Dec 11 1745?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Stucky,Masucci	Glide 10	scaled.com	-	-
2014-A01	2456668.17	2014 Jan 10 1600?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Mackay,Stucky	12:43 /0:20	scaled.com	-	-
2014-A03	2456675.21	2014 Jan 17 1700?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Sturckow	Glide 10	scaled.com	-	-
2014-A31	2456868.37	2014 Jul 29 2049?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Masucci,Siebold	Glide 12	scaled.com	-	-
2014-A32	2456898.12	2014 Aug 28 1453?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Alsbury	Glide 13	scaled.com	-	-
2014-A34	2456938.17	2014 Oct 7 1600?	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YS	-	SCAL/Siebold,Sturckow	Glide 10:30	scaled.com	-	-
2014-A36	2456962.21	2014 Oct 31 1709	Spaceship Two	-	VSS Enterprise	0.000	SCAL	YF	U	SCAL/Siebold,Alsbury	Accident /0:09?	twitter.com	-	-
2016-A39	2457640.29	2016 Sep 8 1904	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/	Captive Carry 3h43	twitter.com	-	-
2016-A43	2457694.06	2016 Nov 1 1330?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/	Glide abort	twitter.com	-	-
2016-A44	2457696.06	2016 Nov 3 1330?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/	Glide abort	twitter.com	-	-
2016-A45	2457723.42	2016 Nov 30 2207	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/	Captive Carry	twitter.com	-	-
2016-A46	2457726.15	2016 Dec 3 1540	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Mackay	Glide 10	twitter.com	-	-
2016-A49	2457745.42	2016 Dec 22 2200?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Stucky	Glide 10	twitter.com	-	-
2017-A02	2457809.26	2017 Feb 24 1810?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Sturckow	Glide 10	twitter.com	-	-
2017-A05	2457875.23	2017 May 1 1738?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Masucci	Glide 10	twitter.com	-	-
2017-A06	2457906.25	2017 Jun 1 1755?	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Sturckow	Glide 10	twitter.com	-	-
2017-A09	2457969.50	2017 Aug 4	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Sturckow	Glide 10	twitter.com	-	-
2018-A01	2458129.50	2018 Jan 11	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Masucci	Glide 10	twitter.com	-	-
2018-A42	2458213.50	2018 Apr 5	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Mackay	- /0:30	twitter.com	-	-
2018-A85	2458267.50	2018 May 29	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Mackay	- /0:31	twitter.com	-	-
2018-M04	2458326.20	2018 Jul 26 1644	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Masucci	- 14.2 14:00/0:42	twitter.com	-	-
2018-S79	2458466.17	2018 Dec 13 1559:39	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/Stucky,Sturckow	- 13.1 14 /0:60	twitter.com	-	-
2019-S08	2458537.20	2019 Feb 22 1653:40	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/Mackay,Masucci,Moses	13.4	twitter.com	-	-
2020-A09	2458893.29	2020 Feb 13 1859	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Pecile	-	twitter.com	-	Land2249Z
2020-A11	2458971.15	2020 May 1 1540	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Mackay,Sturckow	-	twitter.com	-	-
2020-A14	2459026.15	2020 Jun 25 1533:44	Spaceship Two	-	VSS Unity	0.000	VGX	YS	-	VGX/Stucky,Masucci	-	Moses,pc	-	-
2020-A22	2459196.18	2020 Dec 12 1616:50?	Spaceship Two	-	VSS Unity	0.000	VGX	SF	S1I	VGX/Sturckow,Mackay	-	twitter.com	-	-
2021-S26	2459357.14	2021 May 22 1526	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/Sturckow,Mackay	-	twitter.com	-	-
2021-S41	2459407.14	2021 Jul 11 1524:17	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	- 14:19/15:18	twitter.com	-	-
2023-A15	2460052.07	2023 Apr 17 1336	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	CC	flightradar24.com	-	-
2023-A13	2460061.07	2023 Apr 26 1347	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/Pecile,Sturckow	- 9:	twitter.com	-	-
2023-S26	2460090.18	2023 May 25 1623:04	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2023-S31	2460125.14	2023 Jun 29 1528:37	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2023-S34	2460167.14	2023 Aug 10 1517:10	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2023-S38	2460196.14	2023 Sep 8 1522:13	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2023-S42	2460224.17	2023 Oct 6 1610:33	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2023-S54	2460251.16	2023 Nov 2 1544:40	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2024-S01	2460336.24	2024 Jan 26 1742:05	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-
2024-S37	2460470.14	2024 Jun 8 1526:30	Spaceship Two	-	VSS Unity	0.000	VGX	SS	-	VGX/	-	twitter.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-U02	2459798.66	2022 Aug 7 0348:00	SSLV	-	SSLV-D1	EOS-02	EOS-02	-	-	SHAR	FLP	-	-	349	-	-
2023-019	2459985.66	2023 Feb 10 0348	SSLV	-	SSLV-D2	EOS-07	EOS-07	-	-	SHAR	FLP	-	-	349	-	-
2024-147	2460538.66	2024 Aug 16 0347	SSLV	-	SSLV-D3	EOS-08	EOS-08	-	-	SHAR	FLP	-	-	349	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-U02	2459798.66	2022 Aug 7 0348:00	SSLV	-	SSLV-D1	0.138	ISRO	OF	S3G	G	Sat LEO O	ISROWebcast	-	S2S shock broke accelerometer
2023-019	2459985.66	2023 Feb 10 0348	SSLV	-	SSLV-D2	0.175	ISRO	OS	-	G	Sat LEO O	ISROWebcast	-	-
2024-147	2460538.66	2024 Aug 16 0347	SSLV	-	SSLV-D3	0.175	ISRO	OS	-	G	Sat LEO O	ISROWebcast	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-M40	2438251.71	1963 Aug 10 0458	S-A	-	S-A1	-	-	-	-	NIIJ	-	-	-	5	-	-
1963-M41	2438251.81	1963 Aug 10 0720	S-A	-	S-A2	-	-	-	-	NIIJ	-	-	-	5	-	-
1963-M42	2438251.87	1963 Aug 10 0858	S-A	-	S-A3	-	-	-	-	NIIJ	-	-	-	5	-	-
1964-M16	2438593.81	1964 Jul 17 0720	S-B	-	S-B1	-	-	-	-	NIIJ	-	-	-	60?	-	-
1964-M18	2438595.66	1964 Jul 19 0347	S-B	-	S-B2	-	-	-	-	NIIJ	-	-	-	60?	-	-
1964-M20	2438599.65	1964 Jul 23 0337	S-B	-	S-B3	-	-	-	-	NIIJ	-	-	-	60?	-	-
1965-M18	2438926.60	1965 Jun 15 0230	S-B	-	S-B4	-	-	-	-	NIIJ	-	-	-	60?	-	-
1965-M19	2438927.67	1965 Jun 16 0400	S-B	-	S-B5	-	-	-	-	NIIJ	-	-	-	60?	-	-
1965-A161	2439080.59	1965 Nov 16 0209	ST	-	ST-I F1	-	-	-	-	NIIJ	-	-	-	20?	-	-
1965-M42	2439082.78	1965 Nov 18 0642	S-B	-	SB-II F6	-	-	-	-	NIIJ	-	-	-	75?	-	-
1965-M43	2439083.57	1965 Nov 19 0144	S-B	-	SB-II F7	-	-	-	-	NIIJ	-	-	-	75?	-	-
1968-A98	2440116.80	1968 Sep 17 0710	SA-II	-	SA-II A9	-	-	-	-	TNSC	T	-	-	20?	-	-
1969-S120	2440259.77	1969 Feb 7 0630	S-C	-	SC-3	-	-	-	-	TNSC	T	-	-	85?	-	-
1969-S121	2440260.56	1969 Feb 8 0130	S-C	-	SC-4	-	-	-	-	TNSC	T	-	-	85?	-	-
1969-S124	2440260.77	1969 Feb 8 0630	S-C	-	SC-1	-	-	-	-	TNSC	T	-	-	85?	-	-
1969-M29	2440473.77	1969 Sep 9 0630	S-B	-	SB-III F11	-	-	-	-	TNSC	T	-	-	75?	-	-
1971-M01	2440985.57	1971 Feb 3 0135	S-B	-	SB-III A12	-	-	-	-	TNSC	T	-	-	75?	-	-
1971-M02	2440985.77	1971 Feb 3 0630	S-B	-	SB-III A13	-	-	-	-	TNSC	T	-	-	75?	-	-
1971-M12	2441200.57	1971 Sep 6 0135	S-B	-	SB-III A14	-	-	-	-	TNSC	T	-	-	75?	-	-
1971-M13	2441205.57	1971 Sep 11 0145	S-B	-	SB-III A15	-	-	-	-	TNSC	T	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-M40	2438251.71	1963 Aug 10 0458	S-A	-	S-A1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	SFLT18-399	-
1963-M41	2438251.81	1963 Aug 10 0720	S-A	-	S-A2	0.000	STA	SS	-	STA/	Test	NASDA-WWW	SFLT18-399	-
1963-M42	2438251.87	1963 Aug 10 0858	S-A	-	S-A3	0.000	STA	SS	-	STA/	Test	NASDA-WWW	SFLT18-399	-
1964-M16	2438593.81	1964 Jul 17 0720	S-B	-	S-B1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1964-M18	2438595.66	1964 Jul 19 0347	S-B	-	S-B2	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1964-M20	2438599.65	1964 Jul 23 0337	S-B	-	S-B3	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-M18	2438926.60	1965 Jun 15 0230	S-B	-	S-B4	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-M19	2438927.67	1965 Jun 16 0400	S-B	-	S-B5	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-A161	2439080.59	1965 Nov 16 0209	ST	-	ST-I F1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-M42	2439082.78	1965 Nov 18 0642	S-B	-	SB-II F6	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1965-M43	2439083.57	1965 Nov 19 0144	S-B	-	SB-II F7	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1968-A98	2440116.80	1968 Sep 17 0710	SA-II	-	SA-II A9	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-S120	2440259.77	1969 Feb 7 0630	S-C	-	SC-3	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-S121	2440260.56	1969 Feb 8 0130	S-C	-	SC-4	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-S124	2440260.77	1969 Feb 8 0630	S-C	-	SC-1	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1969-M29	2440473.77	1969 Sep 9 0630	S-B	-	SB-III F11	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1971-M01	2440985.57	1971 Feb 3 0135	S-B	-	SB-III A12	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1971-M02	2440985.77	1971 Feb 3 0630	S-B	-	SB-III A13	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1971-M12	2441200.57	1971 Sep 6 0135	S-B	-	SB-III A14	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-
1971-M13	2441205.57	1971 Sep 11 0145	S-B	-	SB-III A15	0.000	STA	SS	-	STA/	Test	NASDA-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2012-A27	2456206.50	2012 Oct 6	STIG-B	-	1	-	-	-	-	SPAM	VLA LC1	-	-	1?	-	-
2012-A28	2456235.18	2012 Nov 3 1626	STIG-B	-	2	-	-	-	-	SPAM	VLA LC1	-	-	1?	-	-
2013-A01	2456298.28	2013 Jan 5 1841	STIG-B	-	3	-	-	-	-	SPAM	VLA LC1	-	-	5	-	-
2018-A135	2458356.26	2018 Aug 25 1815?	SARGE	-	P	SARGE Pathfinder	-	-	-	SPAM	VLA LC1	-	-	28	-	-
2019-A01	2458545.25	2019 Mar 2 1753	SARGE	-	M1	SARGE Mission 1	-	-	-	SPAM	VLA LC1	-	-	20	-	-
2019-A95	2458664.25	2019 Jun 29 1800?	SARGE	-	M2	SARGE Mission 2	-	-	-	SPAM	VLA LC1	-	-	3	-	-
2019-A108	2458783.24	2019 Oct 26 1740	SARGE	-	M3	SARGE Mission 3	-	-	-	SPAM	VLA LC1	-	-	12	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2012-A27	2456206.50	2012 Oct 6	STIG-B	-	1	0.000	ARMAD	SF	U	ARMAD/	Test	armadilloaerospace.	-	-
2012-A28	2456235.18	2012 Nov 3 1626	STIG-B	-	2	0.000	ARMAD	SF	U	ARMAD/	Test	armadilloaerospace.	-	-
2013-A01	2456298.28	2013 Jan 5 1841	STIG-B	-	3	0.000	ARMAD	SF	U	ARMAD/	Test	armadilloaerospace.	-	-
2018-A135	2458356.26	2018 Aug 25 1815?	SARGE	-	P	0.000	EXOSA	SF	U	EXOSA/	Test	Wire	-	-
2019-A01	2458545.25	2019 Mar 2 1753	SARGE	-	M1	0.000	EXOSA	SS	-	EXOSA/	Microgravity/Tech	Youtube	-	-
2019-A95	2458664.25	2019 Jun 29 1800?	SARGE	-	M2	0.000	EXOSA	SF	U	EXOSA/	Microgravity/Tech	Youtube	-	-
2019-A108	2458783.24	2019 Oct 26 1740	SARGE	-	M3	0.000	EXOSA	SF	U	EXOSA/	Microgravity/Tech	Youtube	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-A27	2455900.26	2011 Dec 4 1815?	STIG-A	-	I	-	-	-	-	SPAM	VLA LC1	-	-	43	-	-
2012-S03	2455955.26	2012 Jan 28 1815?	STIG-A	-	III	-	-	-	-	SPAM	VLA LC1	-	-	82	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-A27	2455900.26	2011 Dec 4 1815?	STIG-A	-	I	0.000	ARMAD	SS	-	ARMAD/	Test	armadilloaerospace.	-	-
2012-S03	2455955.26	2012 Jan 28 1815?	STIG-A	-	III	0.000	ARMAD	SS	-	ARMAD/	Test	armadilloaerospace.	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-034	2444707.00	1981 Apr 12 1200:04	Space Shuttle	-	STS-1	OFT-1	OV-102 OFT-1	-	MLP1	KSC	LC39A	-	-	277	-	-
1981-111	2444921.13	1981 Nov 12 1510:00	Space Shuttle	-	STS-2	OFT-2/OSTA-1	OV-102 OFT-2	-	MLP1	KSC	LC39A	-	-	265	-	-
1982-022	2445051.17	1982 Mar 22 1600:00	Space Shuttle	-	STS-3	OFT-3/OSS-1	OV-102 OFT-3	-	MLP1	KSC	LC39A	-	-	257	-	-
1982-065	2445148.12	1982 Jun 27 1500:00	Space Shuttle	-	STS-4	OFT-4/DoD	OV-102 OFT-4	-	MLP1	KSC	LC39A	-	-	324	-	-
1982-110	2445285.01	1982 Nov 11 1219:00	Space Shuttle	-	STS-5	PAM-D Deploy	OV-102 PAM deploy	-	MLP1	KSC	LC39A	-	-	37345	-	-
1983-026	2445429.27	1983 Apr 4 1830:00	Space Shuttle	-	STS-6	TDRS-A	OV-099 IUS deploy	-	MLP2	KSC	LC39A	-	-	40438	-	-
1983-059	2445503.98	1983 Jun 18 1133:00	Space Shuttle	-	STS-7	PAM-D Deploy/SPAS	OV-099 PAM deploy/FF	-	MLP1	KSC	LC39A	-	-	37287	-	-
1983-089	2445576.77	1983 Aug 30 0632:00	Space Shuttle	-	STS-8	PAM-D Deploy/PFTA	OV-099 PAM deploy	-	MLP2	KSC	LC39A	-	-	38385	-	-
1983-116	2445667.17	1983 Nov 28 1600:00	Space Shuttle	-	STS-9	Spacelab 1	OV-102 Spacelab	-	MLP1	KSC	LC39A	-	-	255	-	-
1984-011	2445734.04	1984 Feb 3 1300:00	Space Shuttle	-	STS-11/41-B	PAM-D Deploy/MMU	OV-099 PAM deploy/FF	-	MLP2	KSC	LC39A	-	-	1310	-	-
1984-034	2445797.08	1984 Apr 6 1358:00	Space Shuttle	-	STS-13/41-C	SMM Repair/LDEF	OV-099 LEO deploy/Rend	-	MLP1	KSC	LC39A	-	-	499	-	-
1984-A47	2445878.03	1984 Jun 26 1243:06	Space Shuttle	-	STS 41-D Abort	RSLS abort	-	-	MLP2	KSC	LC39A	-	-	0	-	-
1984-093	2445943.03	1984 Aug 30 1241:50	Space Shuttle	-	STS-14/41-D	PAM-D/Leasat Deploy	OV-103 PAM deploy	-	MLP2	KSC	LC39A	-	-	38048	-	-
1984-108	2445978.96	1984 Oct 5 1103:00	Space Shuttle	-	STS-17/41-G	ERBS/OSTA-3	OV-099 LEO deploy	-	MLP1	KSC	LC39A	-	-	611	-	-
1984-113	2446013.01	1984 Nov 8 1215:00	Space Shuttle	-	STS-19/51-A	HS-376 Rescue/PAM-D	OV-103 PAM deploy/Rend	-	MLP2	KSC	LC39A	-	-	39667	-	-
1985-010	2446090.33	1985 Jan 24 1950:00	Space Shuttle	-	STS-20/51-C	USA 8 (ORION 1)	OV-103 IUS deploy	-	MLP1	KSC	LC39A	-	-	36717	-	-
1985-028	2446168.08	1985 Apr 12 1359:05	Space Shuttle	-	STS-23/51-D	PAM-D/Leasat Deploy	OV-103 PAM deploy	-	MLP1	KSC	LC39A	-	-	37102	-	-
1985-034	2446185.17	1985 Apr 29 1602:18	Space Shuttle	-	STS-24/51-B	Spacelab 3	OV-099 Spacelab	-	MLP2	KSC	LC39A	-	-	359	-	-
1985-048	2446233.98	1985 Jun 17 1133:00	Space Shuttle	-	STS-25/51-G	PAM-D Deploy	OV-103 PAM deploy/FF	-	MLP1	KSC	LC39A	-	-	37774	-	-
1985-A26	2446259.35	1985 Jul 12 2030:00	Space Shuttle	-	STS 51-F Abort	RSLS abort	-	-	MLP2	KSC	LC39A	-	-	0	-	-
1985-063	2446276.38	1985 Jul 29 2100:00	Space Shuttle	-	STS-26/51-F	Spacelab 2	OV-099 Spacelab	-	MLP2	KSC	LC39A	-	-	327	-	-
1985-076	2446304.96	1985 Aug 27 1058:01	Space Shuttle	-	STS-27/51-I	Leasat Rescue/PAM-D	OV-103 PAM deploy/Rend	-	MLP1	KSC	LC39A	-	-	37103	-	-
1985-092	2446342.14	1985 Oct 3 1515:30	Space Shuttle	-	STS-28/51-J	USA 11/12 [DSCS]	OV-104 IUS deploy	-	MLP2	KSC	LC39A	-	-	36199	-	-
1985-104	2446369.21	1985 Oct 30 1700:00	Space Shuttle	-	STS-29/61-A	Spacelab D-1	OV-099 Spacelab	-	MLP1	KSC	LC39A	-	-	333	-	-
1985-109	2446396.52	1985 Nov 27 0029:00	Space Shuttle	-	STS-30/61-B	PAM-D Deploy	OV-104 PAM deploy	-	MLP2	KSC	LC39A	-	-	36758	-	-
1986-003	2446443.00	1986 Jan 12 1155:00	Space Shuttle	-	STS-32/61-C	PAM-D Deploy/MSL-2	OV-102 PAM deploy	-	MLP1	KSC	LC39A	-	-	36258	-	-
1986-F01	2446459.19	1986 Jan 28 1638:00	Space Shuttle	-	STS-33/51-L	TDRS-B/Spartan	OV-099 IUS deploy	-	MLP2	KSC	LC39B	-	-	15	-	-
1988-091	2447434.15	1988 Sep 29 1537:00	Space Shuttle	-	STS-26R	TDRS-C	OV-103 IUS deploy	-	MLP2	KSC	LC39B	-	-	37208	-	-
1988-106	2447498.10	1988 Dec 2 1430:34	Space Shuttle	-	STS-27R	USA 34 (LACROSSE 1)	OV-104 LEO deploy	-	MLP1	KSC	LC39B	-	-	731	-	-
1989-021	2447599.12	1989 Mar 13 1457:00	Space Shuttle	-	STS-29R	TDRS-D	OV-103 IUS deploy	-	MLP2	KSC	LC39B	-	-	36792	-	-
1989-033	2447651.28	1989 May 4 1846:59	Space Shuttle	-	STS-30R	Magellan	OV-104 IUS deploy	-	MLP1	KSC	LC39B	-	-	150000	-	-
1989-061	2447747.03	1989 Aug 8 1237:00	Space Shuttle	-	STS-28R	USA 40/41 (QUASAR 8?)	OV-102 Medium deploy	-	MLP2	KSC	LC39B	-	-	8223	-	-
1989-084	2447818.20	1989 Oct 18 1653:40	Space Shuttle	-	STS-34R	Galileo	OV-104 IUS deploy	-	MLP1	KSC	LC39B	-	-	150000	-	-
1989-090	2447853.52	1989 Nov 23 0023:30	Space Shuttle	-	STS-33R	USA 48 (ORION 2)	OV-103 IUS deploy	-	MLP2	KSC	LC39B	-	-	37442	-	-
1990-002	2447901.02	1990 Jan 9 1235:00	Space Shuttle	-	STS-32R	LDEF Retrieve	OV-102 Medium dep/Rend	-	MLP3	KSC	LC39A	-	-	36989	-	-
1990-019	2447950.83	1990 Feb 28 0750:22	Space Shuttle	-	STS-36R	USA 53 [MST1]	OV-104 LEO deploy	-	MLP1	KSC	LC39A	-	-	808	-	-
1990-037	2448006.02	1990 Apr 24 1233:52	Space Shuttle	-	STS-31R	HST	OV-103 HST mission	-	MLP2	KSC	LC39B	-	-	620	-	-
1990-090	2448170.99	1990 Oct 6 1147:16	Space Shuttle	-	STS-41	Ulysses	OV-103 IUS deploy	-	MLP2	KSC	LC39B	-	-	150000	-	-
1990-097	2448211.49	1990 Nov 15 2348:15	Space Shuttle	-	STS-38	USA 67 (QUASAR 9)	OV-104 Medium dep	-	MLP1	KSC	LC39A	-	-	36426	-	-
1990-106	2448227.78	1990 Dec 2 0649:00	Space Shuttle	-	STS-35R	Spacelab Astro 1	OV-102 Spacelab	-	MLP3	KSC	LC39B	-	-	361	-	-
1991-027	2448352.10	1991 Apr 5 1422:45	Space Shuttle	-	STS-37R	GRO	OV-104 LEO deploy	-	MLP1	KSC	LC39B	-	-	512	-	-
1991-031	2448374.98	1991 Apr 28 1133:14	Space Shuttle	-	STS-39	SDIO/SPAS	OV-103 Research/FF	-	MLP2	KSC	LC39A	-	-	270	-	-
1991-040	2448413.06	1991 Jun 5 1324:51	Space Shuttle	-	STS-40	Spacelab SLS-1	OV-102 Spacelab	-	MLP3	KSC	LC39B	-	-	299	-	-
1991-054	2448471.13	1991 Aug 2 1502:00	Space Shuttle	-	STS-43	TDRS-E	OV-104 IUS deploy	-	MLP1	KSC	LC39A	-	-	39010	-	-
1991-063	2448512.47	1991 Sep 12 2311:04	Space Shuttle	-	STS-48	UARS	OV-103 LEO deploy	-	MLP3	KSC	LC39A	-	-	600	-	-
1991-080	2448585.49	1991 Nov 24 2344:00	Space Shuttle	-	STS-44	USA 75 (DSP F-16)	OV-104 IUS deploy	-	MLP1	KSC	LC39A	-	-	36146	-	-
1992-002	2448644.12	1992 Jan 22 1452:33	Space Shuttle	-	STS-42	Spacelab IML-1	OV-103 Spacelab	-	MLP3	KSC	LC39A	-	-	308	-	-
1992-015	2448706.05	1992 Mar 24 1313:39	Space Shuttle	-	STS-45	Spacelab Atlas 1	OV-104 Spacelab	-	MLP1	KSC	LC39A	-	-	307	-	-
1992-026	2448750.49	1992 May 7 2340:00	Space Shuttle	-	STS-49	Intelsat Rescue	OV-105 Rendezvous	-	MLP2	KSC	LC39B	-	-	371	-	-
1992-034	2448799.18	1992 Jun 25 1612:22	Space Shuttle	-	STS-50	Spacelab USML-1	OV-102 Spacelab	-	MLP3	KSC	LC39A	-	-	338	-	-
1992-049	2448835.08	1992 Jul 31 1356:48	Space Shuttle	-	STS-46	TSS-1/Eureca	OV-104 Research/FF	-	MLP1	KSC	LC39B	-	-	545	-	-
1992-061	2448878.10	1992 Sep 12 1423:00	Space Shuttle	-	STS-47	Spacelab J	OV-105 Spacelab	-	MLP2	KSC	LC39B	-	-	311	-	-
1992-070	2448918.22	1992 Oct 22 1709:40	Space Shuttle	-	STS-52	Lageos 2/USMP-1	OV-102 Research/Med dep	-	MLP3	KSC	LC39B	-	-	39013	-	-
1992-086	2448959.06	1992 Dec 2 1324:00	Space Shuttle	-	STS-53	USA 89 (QUASAR 10)	OV-103 Medium deploy	-	MLP1	KSC	LC39A	-	-	39493	-	-
1993-003	2449001.08	1993 Jan 13 1359:30	Space Shuttle	-	STS-54	TDRS-F	OV-105 IUS deploy	-	MLP2	KSC	LC39B	-	-	37853	-	-
1993-A20	2449069.12	1993 Mar 22 1450:57	Space Shuttle	-	STS-55 Abort	RSLS Abort	-	-	MLP3	KSC	LC39A	-	-	0	-	-
1993-023	2449085.73	1993 Apr 8 0529:00	Space Shuttle	-	STS-56	Spacelab Atlas 2	OV-103 Spacelab	-	MLP1	KSC	LC39B	-	-	301	-	-
1993-027	2449104.12	1993 Apr 26 1450:00	Space Shuttle	-	STS-55	Spacelab D-2	OV-102 Spacelab	-	MLP3	KSC	LC39A	-	-	307	-	-
1993-037	2449160.05	1993 Jun 21 1307:22	Space Shuttle	-	STS-57	SH-01/SHOOT	OV-105 Research/Rendez	-	MLP2	KSC	LC39B	-	-	482	-	-
1993-A21	2449212.05	1993 Aug 12 1312:32	Space Shuttle	-	STS-51 Abort	RSLS Abort	-	-	MLP3	KSC	LC39B	-	-	0	-	-
1993-058	2449242.99	1993 Sep 12 1145:00	Space Shuttle	-	STS-51	ACTS/Orfeus	OV-103 IUS deploy/FF	-	MLP3	KSC	LC39B	-	-	46531	-	-
1993-065	2449279.12	1993 Oct 18 1453:10	Space Shuttle	-	STS-58	Spacelab SLS 2	OV-102 Spacelab	-	MLP1	KSC	LC39B	-	-	291	-	-
1993-075	2449323.89	1993 Dec 2 0927:00	Space Shuttle	-	STS-61	HST SM-1	OV-105 HST mission	-	MLP2	KSC	LC39B	-	-	601	-	-
1994-006	2449387.01	1994 Feb 3 1210:00	Space Shuttle	-	STS-60	SH-02/WSF	OV-103 Research/FF	-	MLP3	KSC	LC39A	-	-	372	-	-
1994-015	2449416.08	1994 Mar 4 1353:00	Space Shuttle	-	STS-62	USMP-2/OAST-2	OV-102 Research	-	MLP1	KSC	LC39B	-	-	305	-	-
1994-020	2449451.96	1994 Apr 9 1105:01	Space Shuttle	-	STS-59	SRL-1	OV-105 Spacelab	-	MLP2	KSC	LC39A	-	-	228	-	-
1994-039	2449542.20	1994 Jul 8 1643:00	Space Shuttle	-	STS-65	Spacelab IML-2	OV-102 Spacelab	-	MLP3	KSC	LC39A	-	-	304	-	-
1994-059	2449605.43	1994 Sep 9 2222:53	Space Shuttle	-	STS-64	Spartan/LITE	OV-103 Research/FF	-	MLP2	KSC	LC39B	-	-	267	-	-
1994-A08	2449582.95	1994 Aug 18 1053:58	Space Shuttle	-	STS-68 Abort	RSLS Abort	-	-	MLP1	KSC	LC39A	-	-	0	-	-
1994-062	2449625.97	1994 Sep 30 1116:00	Space Shuttle	-	STS-68	SRL-2	OV-105 Spacelab	-	MLP1	KSC	LC39A	-	-	226	-	-
1994-073	2449660.21	1994 Nov 3 1659:43	Space Shuttle	-	STS-66	Spacelab Atlas 3	OV-104 Spacelab	-	MLP3	KSC	LC39B	-	-	318	-	-
1995-004	2449751.72	1995 Feb 3 0522:04	Space Shuttle	-	STS-63	SH-03/Mir Rendezvous	OV-103 Shuttle/Mir	-	MLP2	KSC	LC39B	-	-	395	-	-
1995-007	2449778.78	1995 Mar 2 0638:13	Space Shuttle	-	STS-67	Spacelab Astro 2	OV-105 Spacelab	-	MLP1	KSC	LC39A	-	-	363	-	-
1995-030	2449896.31	1995 Jun 27 1932:18	Space Shuttle	-	STS-71	Shuttle/Mir-1	OV-104 Shuttle/Mir	-	MLP3	KSC	LC39A	-	-	400	-	-
1995-035	2449912.07	1995 Jul 13 1341:55	Space Shuttle	-	STS-70	TDRS-G	OV-103 IUS deploy	-	MLP2	KSC	LC39B	-	-	38038	-	-
1995-048	2449968.13	1995 Sep 7 1509:00	Space Shuttle	-	STS-69	WSF/Spartan/IEH-1	OV-105 Research/FF	-	MLP1	KSC	LC39A	-	-	414	-	-
1995-056	2450011.08	1995 Oct 20 1353:00	Space Shuttle	-	STS-73	Spacelab USML-2	OV-102 Spacelab	-	MLP3	KSC	LC39B	-	-	280	-	-
1995-061	2450034.02	1995 Nov 12 1230:43	Space Shuttle	-	STS-74	Shuttle/Mir-2	OV-104 Shuttle/Mir	-	MLP2	KSC	LC39A	-	-	527	-	-
1996-001	2450093.90	1996 Jan 11 0941:00	Space Shuttle	-	STS-72	Spartan/SLA	OV-105 Research/FF	-	MLP1	KSC	LC39B	-	-	582	-	-
1996-012	2450136.35	1996 Feb 22 2018:00	Space Shuttle	-	STS-75	TSS-1R	OV-102 Research/FF	-	MLP3	KSC	LC39B	-	-	416	-	-
1996-018	2450164.84	1996 Mar 22 0813:04	Space Shuttle	-	STS-76	Shuttle/Mir-3	OV-104 Shuttle/Mir	-	MLP2	KSC	LC39B	-	-	398	-	-
1996-032	2450222.94	1996 May 19 1030:00	Space Shuttle	-	STS-77	SH-04/Spartan/TEAMS	OV-105 Research/FF	-	MLP1	KSC	LC39B	-	-	295	-	-
1996-036	2450255.12	1996 Jun 20 1449:00	Space Shuttle	-	STS-78	Spacelab LMS	OV-102 Spacelab	-	MLP3	KSC	LC39B	-	-	285	-	-
1996-057	2450342.87	1996 Sep 16 0854:49	Space Shuttle	-	STS-79	Shuttle/Mir-4	OV-104 Shuttle/Mir	-	MLP1	KSC	LC39A	-	-	390	-	-
1996-065	2450407.33	1996 Nov 19 1955:47	Space Shuttle	-	STS-80	ORFEUS/WSF	OV-102 Research/FF	-	MLP3	KSC	LC39B	-	-	377	-	-
1997-001	2450460.89	1997 Jan 12 0927:23	Space Shuttle	-	STS-81	Shuttle/Mir-5	OV-104 Shuttle/Mir	-	MLP2	KSC	LC39B	-	-	394	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-004	2450490.87	1997 Feb 11 0855:17	Space Shuttle	-	STS-82	HST SM-2	OV-103 HST mission	-	MLP1	KSC	LC39A	-	-	619	-	-
1997-013	2450543.31	1997 Apr 4 1920:32	Space Shuttle	-	STS-83	Spacelab MSL-1	OV-102 Spacelab	-	MLP3	KSC	LC39A	-	-	304	-	-
1997-023	2450583.84	1997 May 15 0807:48	Space Shuttle	-	STS-84	Shuttle/Mir-6	OV-104 Shuttle/Mir	-	MLP2	KSC	LC39A	-	-	396	-	-
1997-032	2450631.25	1997 Jul 1 1802:00	Space Shuttle	-	STS-94	Spacelab MSL-1R	OV-102 Spacelab	-	MLP1	KSC	LC39A	-	-	304	-	-
1997-039	2450668.11	1997 Aug 7 1441:00	Space Shuttle	-	STS-85	CRISTA/MFD/IEH	OV-103 Research/FF	-	MLP3	KSC	LC39A	-	-	308	-	-
1997-055	2450717.61	1997 Sep 26 0234:19	Space Shuttle	-	STS-86	Shuttle/Mir-7	OV-104 Shuttle/Mir	-	MLP2	KSC	LC39A	-	-	391	-	-
1997-073	2450772.32	1997 Nov 19 1946:00	Space Shuttle	-	STS-87	Spartan 201/USMP-4	OV-102 Research/FF	-	MLP1	KSC	LC39B	-	-	286	-	-
1998-003	2450836.62	1998 Jan 23 0248:15	Space Shuttle	-	STS-89	Shuttle/Mir-8	OV-105 Shuttle/Mir	-	MLP3	KSC	LC39A	-	-	387	-	-
1998-022	2450921.26	1998 Apr 17 1819:00	Space Shuttle	-	STS-90	Neurolab	OV-102 Spacelab	-	MLP2	KSC	LC39B	-	-	290	-	-
1998-034	2450967.42	1998 Jun 2 2206:24	Space Shuttle	-	STS-91	Shuttle/Mir-9	OV-103 Shuttle/Mir	-	MLP1	KSC	LC39A	-	-	379	-	-
1998-064	2451116.31	1998 Oct 29 1919:34	Space Shuttle	-	STS-95	Spartan 201/Spacehab	OV-103 Research/FF	-	MLP2	KSC	LC39B	-	-	570	-	-
1998-069	2451151.86	1998 Dec 4 0835:34	Space Shuttle	-	STS-88	ISS 2A (Unity)	OV-105 ISS	-	MLP3	KSC	LC39A	-	-	403	-	-
1999-030	2451325.95	1999 May 27 1049:42	Space Shuttle	-	STS-96	ISS 2A.1 (Spacehab)	OV-103 ISS	-	MLP2	KSC	LC39B	-	-	411	-	-
1999-040	2451382.69	1999 Jul 23 0431:00	Space Shuttle	-	STS-93	Chandra	OV-102 IUS deploy	-	MLP1	KSC	LC39B	-	-	146417	-	-
1999-069	2451532.53	1999 Dec 20 0050:00	Space Shuttle	-	STS-103	HST SM-3A	OV-103 HST mission	-	MLP2	KSC	LC39B	-	-	611	-	-
2000-010	2451586.24	2000 Feb 11 1743:40	Space Shuttle	-	STS-99	SRTM (SRL-3)	OV-105 Spacelab	-	MLP3	KSC	LC39A	-	-	245	-	-
2000-027	2451683.92	2000 May 19 1011:10	Space Shuttle	-	STS-101	ISS 2A.2a	OV-104 ISS	-	MLP1	KSC	LC39A	-	-	381	-	-
2000-053	2451796.03	2000 Sep 8 1245:47	Space Shuttle	-	STS-106	ISS 2A.2b	OV-104 ISS	-	MLP2	KSC	LC39B	-	-	387	-	-
2000-062	2451829.47	2000 Oct 11 2317:00	Space Shuttle	-	STS-92	ISS 3A	OV-103 ISS	-	MLP3	KSC	LC39A	-	-	391	-	-
2000-078	2451879.63	2000 Dec 1 0306:01	Space Shuttle	-	STS-97	ISS 4A	OV-105 ISS	-	MLP1	KSC	LC39B	-	-	381	-	-
2001-006	2451948.47	2001 Feb 7 2313:02	Space Shuttle	-	STS-98	ISS 5A	OV-104 ISS	-	MLP2	KSC	LC39A	-	-	389	-	-
2001-010	2451976.99	2001 Mar 8 1142:09	Space Shuttle	-	STS-102	ISS 5A.1	OV-103 ISS	-	MLP3	KSC	LC39B	-	-	395	-	-
2001-016	2452019.28	2001 Apr 19 1840:42	Space Shuttle	-	STS-100	ISS 6A	OV-105 ISS	-	MLP1	KSC	LC39A	-	-	404	-	-
2001-028	2452102.88	2001 Jul 12 0903:59	Space Shuttle	-	STS-104	ISS 7A	OV-104 ISS	-	-	KSC	LC39B	-	-	400	-	-
2001-035	2452132.38	2001 Aug 10 2110:14	Space Shuttle	-	STS-105	ISS 7A.1	OV-103 ISS	-	-	KSC	LC39A	-	-	403	-	-
2001-054	2452249.43	2001 Dec 5 2219:28	Space Shuttle	-	STS-108	ISS UF-1	OV-105 ISS	-	MLP1	KSC	LC39B	-	-	390	-	-
2002-010	2452334.97	2002 Mar 1 1122:02	Space Shuttle	-	STS-109	HST SM-3B	OV-102 HST mission	-	-	KSC	LC39A	-	-	587	-	-
2002-018	2452373.36	2002 Apr 8 2044:19	Space Shuttle	-	STS-110	ISS 8A	OV-104 ISS	-	-	KSC	LC39B	-	-	412	-	-
2002-028	2452431.39	2002 Jun 5 2122:49	Space Shuttle	-	STS-111	ISS UF-2	OV-105 ISS	-	MLP1	KSC	LC39A	-	-	420	-	-
2002-047	2452555.32	2002 Oct 7 1945:51	Space Shuttle	-	STS-112	ISS 9A	OV-104 ISS	-	-	KSC	LC39B	-	-	405	-	-
2002-052	2452602.53	2002 Nov 24 0049:47	Space Shuttle	-	STS-113	ISS 11A	OV-105 ISS	-	-	KSC	LC39A	-	-	399	-	-
2003-003	2452656.15	2003 Jan 16 1539:00	Space Shuttle	-	STS-107	Spacehab	OV-102 Research	-	-	KSC	LC39A	-	-	289	-	-
2005-026	2453578.11	2005 Jul 26 1439:00	Space Shuttle	-	STS-114	ISS LF-1	OV-103 ISS	-	-	KSC	LC39B	-	-	358	-	-
2006-028	2453921.28	2006 Jul 4 1837:55	Space Shuttle	-	STS-121	ISS ULF-1.1	OV-103 ISS	-	-	KSC	LC39B	-	-	350	-	-
2006-036	2453988.14	2006 Sep 9 1514:55	Space Shuttle	-	STS-115	ISS 12A	OV-104 ISS	-	-	KSC	LC39B	-	-	351	-	-
2006-055	2454079.57	2006 Dec 10 0147:35	Space Shuttle	-	STS-116	ISS 12A.1	OV-103 ISS	-	-	KSC	LC39B	-	-	476	-	-
2007-024	2454260.48	2007 Jun 8 2338:04	Space Shuttle	-	STS-117	ISS 13A	OV-104 ISS	-	-	KSC	LC39A	-	-	354	-	-
2007-035	2454321.44	2007 Aug 8 2236:42	Space Shuttle	-	STS-118	ISS 13A.1	OV-105 ISS	-	-	KSC	LC39A	-	-	349	-	-
2007-050	2454397.15	2007 Oct 23 1538:19	Space Shuttle	-	STS-120	ISS 10A	OV-103 ISS	-	-	KSC	LC39A	-	-	346	-	-
2008-005	2454504.32	2008 Feb 7 1945:30	Space Shuttle	-	STS-122	ISS 1E	OV-104 ISS	-	-	KSC	LC39A	-	-	343	-	-
2008-009	2454536.77	2008 Mar 11 0628:14	Space Shuttle	-	STS-123	ISS 1J/A	OV-105 ISS	-	-	KSC	LC39A	-	-	346	-	-
2008-027	2454618.38	2008 May 31 2102:12	Space Shuttle	-	STS-124	ISS 1J	OV-103 ISS	-	-	KSC	LC39A	-	-	357	-	-
2008-059	2454785.54	2008 Nov 15 0055:39	Space Shuttle	-	STS-126	ISS ULF-2	OV-105 ISS	-	-	KSC	LC39A	-	-	359	-	-
2009-012	2454906.49	2009 Mar 15 2343:44	Space Shuttle	-	STS-119	ISS 15A	OV-103 ISS	-	-	KSC	LC39A	-	-	361	-	-
2009-025	2454963.25	2009 May 11 1801:56	Space Shuttle	-	STS-125	HST SM-4	OV-104 HST mission	-	-	KSC	LC39A	-	-	595	-	-
2009-038	2455028.42	2009 Jul 15 2203:10	Space Shuttle	-	STS-127	ISS 2J/A	OV-105 ISS	-	-	KSC	LC39A	-	-	423	-	-
2009-045	2455072.67	2009 Aug 29 0359:37	Space Shuttle	-	STS-128	ISS 17A	OV-103 ISS	-	-	KSC	LC39A	-	-	355	-	-
2009-062	2455152.31	2009 Nov 16 1928:10	Space Shuttle	-	STS-129	ISS ULF-3	OV-104 ISS	-	-	KSC	LC39A	-	-	349	-	-
2010-004	2455235.88	2010 Feb 8 0914:08	Space Shuttle	-	STS-130	ISS 20A	OV-105 ISS	-	-	KSC	LC39A	-	-	352	-	-
2010-012	2455291.93	2010 Apr 5 1021:25	Space Shuttle	-	STS-131	ISS 19A	OV-103 ISS	-	-	KSC	LC39A	-	-	353	-	-
2010-019	2455331.26	2010 May 14 1820:09	Space Shuttle	-	STS-132	ISS ULF-4	OV-104 ISS	-	-	KSC	LC39A	-	-	365	-	-
2011-008	2455617.41	2011 Feb 24 2153:24	Space Shuttle	-	STS-133	ISS ULF-5	OV-103 ISS	-	-	KSC	LC39A	-	-	357	-	-
2011-020	2455698.04	2011 May 16 1256:28	Space Shuttle	-	STS-134	ISS ULF-6	OV-105 ISS	-	-	KSC	LC39A	-	-	420	-	-
2011-031	2455751.15	2011 Jul 8 1529:04	Space Shuttle	-	STS-135	ISS ULF-7	OV-104 ISS	-	-	KSC	LC39A	-	-	484	-	-
2022-156	2459899.78	2022 Nov 16 0647:44	SLS Block 1	-	1	Artemis 1	-	-	-	KSC	LC39B	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-034	2444707.00	1981 Apr 12 1200:04	Space Shuttle	-	STS-1	94.535	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1981-111	2444921.13	1981 Nov 12 1510:00	Space Shuttle	-	STS-2	99.719	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1982-022	2445051.17	1982 Mar 22 1600:00	Space Shuttle	-	STS-3	101.144	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1982-065	2445148.12	1982 Jun 27 1500:00	Space Shuttle	-	STS-4	103.620	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1982-110	2445285.01	1982 Nov 11 1219:00	Space Shuttle	-	STS-5	111.490	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1983-026	2445429.27	1983 Apr 4 1830:00	Space Shuttle	-	STS-6	113.990	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1983-059	2445503.98	1983 Jun 18 1133:00	Space Shuttle	-	STS-7	114.043	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1983-089	2445576.77	1983 Aug 30 0632:00	Space Shuttle	-	STS-8	111.415	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1983-116	2445667.17	1983 Nov 28 1600:00	Space Shuttle	-	STS-9	106.954	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1984-011	2445734.04	1984 Feb 3 1300:00	Space Shuttle	-	STS-11/41-B	108.900	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1984-034	2445797.08	1984 Apr 6 1358:00	Space Shuttle	-	STS-13/41-C	120.932	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1984-A47	2445878.03	1984 Jun 26 1243:06	Space Shuttle	-	STS 41-D Abort	0.000	JSC/MSFC	OE	-	G	Sat LEO SR	STSJSC	-	Abort, no launch
1984-093	2445943.03	1984 Aug 30 1241:50	Space Shuttle	-	STS-14/41-D	118.055	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1984-108	2445978.96	1984 Oct 5 1103:00	Space Shuttle	-	STS-17/41-G	104.913	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1984-113	2446013.01	1984 Nov 8 1215:00	Space Shuttle	-	STS-19/51-A	121.247	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-010	2446090.33	1985 Jan 24 1950:00	Space Shuttle	-	STS-20/51-C	117.458	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-028	2446168.08	1985 Apr 12 1359:05	Space Shuttle	-	STS-23/51-D	113.268	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-034	2446185.17	1985 Apr 29 1602:18	Space Shuttle	-	STS-24/51-B	104.802	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-048	2446233.98	1985 Jun 17 1133:00	Space Shuttle	-	STS-25/51-G	115.627	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-A26	2446259.35	1985 Jul 12 2030:00	Space Shuttle	-	STS 51-F Abort	0.000	JSC/MSFC	OE	-	G	Sat LEO SR	STSJSC	-	Abort, no launch
1985-063	2446276.38	1985 Jul 29 2100:00	Space Shuttle	-	STS-26/51-F	108.208	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-076	2446304.96	1985 Aug 27 1058:01	Space Shuttle	-	STS-27/51-I	119.432	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-092	2446342.14	1985 Oct 3 1515:30	Space Shuttle	-	STS-28/51-J	117.604	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-104	2446369.21	1985 Oct 30 1700:00	Space Shuttle	-	STS-29/61-A	103.394	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1985-109	2446396.52	1985 Nov 27 0029:00	Space Shuttle	-	STS-30/61-B	118.494	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1986-003	2446443.00	1986 Jan 12 1155:00	Space Shuttle	-	STS-32/61-C	110.498	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1986-F01	2446459.19	1986 Jan 28 1638:00	Space Shuttle	-	STS-33/51-L	120.006	JSC/MSFC	OF	S1P	G	Sat LEO SR	STSJSC	-	SRB burnthrough
1988-091	2447434.15	1988 Sep 29 1537:00	Space Shuttle	-	STS-26R	114.641	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1988-106	2447498.10	1988 Dec 2 1430:34	Space Shuttle	-	STS-27R	117.500	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1989-021	2447599.12	1989 Mar 13 1457:00	Space Shuttle	-	STS-29R	115.616	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1989-033	2447651.28	1989 May 4 1846:59	Space Shuttle	-	STS-30R	116.702	JSC/MSFC	DS	-	G	Sat LEO SR	STSJSC	-	-
1989-061	2447747.03	1989 Aug 8 1237:00	Space Shuttle	-	STS-28R	116.477	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1989-084	2447818.20	1989 Oct 18 1653:40	Space Shuttle	-	STS-34R	116.591	JSC/MSFC	DS	-	G	Sat LEO SR	STSJSC	-	-
1989-090	2447853.52	1989 Nov 23 0023:30	Space Shuttle	-	STS-33R	118.358	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1990-002	2447901.02	1990 Jan 9 1235:00	Space Shuttle	-	STS-32R	114.360	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1990-019	2447950.83	1990 Feb 28 0750:22	Space Shuttle	-	STS-36R	126.500	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1990-037	2448006.02	1990 Apr 24 1233:52	Space Shuttle	-	STS-31R	116.084	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1990-090	2448170.99	1990 Oct 6 1147:16	Space Shuttle	-	STS-41	117.356	JSC/MSFC	DS	-	G	Sat LEO SR	STSJSC	-	-
1990-097	2448211.49	1990 Nov 15 2348:15	Space Shuttle	-	STS-38	118.459	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1990-106	2448227.78	1990 Dec 2 0649:00	Space Shuttle	-	STS-35R	110.437	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-027	2448352.10	1991 Apr 5 1422:45	Space Shuttle	-	STS-37R	124.971	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-031	2448374.98	1991 Apr 28 1133:14	Space Shuttle	-	STS-39	109.535	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-040	2448413.06	1991 Jun 5 1324:51	Space Shuttle	-	STS-40	109.395	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-054	2448471.13	1991 Aug 2 1502:00	Space Shuttle	-	STS-43	117.272	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-063	2448512.47	1991 Sep 12 2311:04	Space Shuttle	-	STS-48	108.194	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1991-080	2448585.49	1991 Nov 24 2344:00	Space Shuttle	-	STS-44	116.700	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-002	2448644.12	1992 Jan 22 1452:33	Space Shuttle	-	STS-42	105.005	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-015	2448706.05	1992 Mar 24 1313:39	Space Shuttle	-	STS-45	100.737	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-026	2448750.49	1992 May 7 2340:00	Space Shuttle	-	STS-49	112.483	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-034	2448799.18	1992 Jun 25 1612:22	Space Shuttle	-	STS-50	111.539	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-049	2448835.08	1992 Jul 31 1356:48	Space Shuttle	-	STS-46	114.838	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-061	2448878.10	1992 Sep 12 1423:00	Space Shuttle	-	STS-47	105.533	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-070	2448918.22	1992 Oct 22 1709:40	Space Shuttle	-	STS-52	110.998	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1992-086	2448959.06	1992 Dec 2 1324:00	Space Shuttle	-	STS-53	114.189	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-003	2449001.08	1993 Jan 13 1359:30	Space Shuttle	-	STS-54	117.442	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-A20	2449069.12	1993 Mar 22 1450:57	Space Shuttle	-	STS-55 Abort	0.000	JSC/MSFC	OE	-	G	Sat LEO SR	STSJSC	-	-
1993-023	2449085.73	1993 Apr 8 0529:00	Space Shuttle	-	STS-56	103.618	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-027	2449104.12	1993 Apr 26 1450:00	Space Shuttle	-	STS-55	110.747	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-037	2449160.05	1993 Jun 21 1307:22	Space Shuttle	-	STS-57	108.553	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-A21	2449212.05	1993 Aug 12 1312:32	Space Shuttle	-	STS-51 Abort	0.000	JSC/MSFC	OE	-	G	Sat LEO SR	STSJSC	-	Abort, no launch
1993-058	2449242.99	1993 Sep 12 1145:00	Space Shuttle	-	STS-51	128.885	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-065	2449279.12	1993 Oct 18 1453:10	Space Shuttle	-	STS-58	113.267	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1993-075	2449323.89	1993 Dec 2 0927:00	Space Shuttle	-	STS-61	107.531	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-006	2449387.01	1994 Feb 3 1210:00	Space Shuttle	-	STS-60	105.921	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-015	2449416.08	1994 Mar 4 1353:00	Space Shuttle	-	STS-62	111.357	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-020	2449451.96	1994 Apr 9 1105:01	Space Shuttle	-	STS-59	105.723	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-039	2449542.20	1994 Jul 8 1643:00	Space Shuttle	-	STS-65	112.930	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-059	2449605.43	1994 Sep 9 2222:53	Space Shuttle	-	STS-64	105.951	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-A08	2449582.95	1994 Aug 18 1053:58	Space Shuttle	-	STS-68 Abort	0.000	JSC/MSFC	OE	-	G	Sat LEO SR	STSJSC	-	Abort, no launch
1994-062	2449625.97	1994 Sep 30 1116:00	Space Shuttle	-	STS-68	107.838	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1994-073	2449660.21	1994 Nov 3 1659:43	Space Shuttle	-	STS-66	108.642	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1995-004	2449751.72	1995 Feb 3 0522:04	Space Shuttle	-	STS-63	108.075	JSC/MSFC	OS	-	G	Sat LSS SR	STSJSC	-	-
1995-007	2449778.78	1995 Mar 2 0638:13	Space Shuttle	-	STS-67	110.590	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1995-030	2449896.31	1995 Jun 27 1932:18	Space Shuttle	-	STS-71	108.264	JSC/MSFC	OS	-	G	Sat LSS SR	STSJSC	-	-
1995-035	2449912.07	1995 Jul 13 1341:55	Space Shuttle	-	STS-70	116.604	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1995-048	2449968.13	1995 Sep 7 1509:00	Space Shuttle	-	STS-69	113.641	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1995-056	2450011.08	1995 Oct 20 1353:00	Space Shuttle	-	STS-73	111.909	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1995-061	2450034.02	1995 Nov 12 1230:43	Space Shuttle	-	STS-74	107.565	JSC/MSFC	OS	-	G	Sat LSS SR	STSJSC	-	-
1996-001	2450093.90	1996 Jan 11 0941:00	Space Shuttle	-	STS-72	109.399	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1996-012	2450136.35	1996 Feb 22 2018:00	Space Shuttle	-	STS-75	114.175	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1996-018	2450164.84	1996 Mar 22 0813:04	Space Shuttle	-	STS-76	112.907	JSC/MSFC	OS	-	G	Sat LSS SR	STSJSC	-	-
1996-032	2450222.94	1996 May 19 1030:00	Space Shuttle	-	STS-77	116.008	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1996-036	2450255.12	1996 Jun 20 1449:00	Space Shuttle	-	STS-78	121.106	JSC/MSFC	OS	-	G	Sat LEO SR	STSJSC	-	-
1996-057	2450342.87	1996 Sep 16 0854:49	Space Shuttle	-	STS-79	116.723	JSC/MSFC	OS	-	G	Sat LSS SR	STSJSC	-	-
1996-065	2450407.33	1996 Nov 19 1955:47	Space Shuttle	-	STS-80	121.804	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1997-001	2450460.89	1997 Jan 12 0927:23	Space Shuttle	-	STS-81	114.624	JSC/MSFC	OS	-	G	Sat LSS SR	MSFCFLASH	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-004	2450490.87	1997 Feb 11 0855:17	Space Shuttle	-	STS-82	108.673	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1997-013	2450543.31	1997 Apr 4 1920:32	Space Shuttle	-	STS-83	126.098	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1997-023	2450583.84	1997 May 15 0807:48	Space Shuttle	-	STS-84	116.114	JSC/MSFC	OS	-	G	Sat LSS SR	MSFCFLASH	-	-
1997-032	2450631.25	1997 Jul 1 1802:00	Space Shuttle	-	STS-94	126.294	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1997-039	2450668.11	1997 Aug 7 1441:00	Space Shuttle	-	STS-85	111.542	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1997-055	2450717.61	1997 Sep 26 0234:19	Space Shuttle	-	STS-86	116.219	JSC/MSFC	OS	-	G	Sat LSS SR	Wire	-	-
1997-073	2450772.32	1997 Nov 19 1946:00	Space Shuttle	-	STS-87	118.383	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1998-003	2450836.62	1998 Jan 23 0248:15	Space Shuttle	-	STS-89	114.532	JSC/MSFC	OS	-	G	Sat LSS SR	MSFCFLASH	-	-
1998-022	2450921.26	1998 Apr 17 1819:00	Space Shuttle	-	STS-90	126.458	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1998-034	2450967.42	1998 Jun 2 2206:24	Space Shuttle	-	STS-91	118.765	JSC/MSFC	OS	-	G	Sat LSS SR	MSFCFLASH	-	-
1998-064	2451116.31	1998 Oct 29 1919:34	Space Shuttle	-	STS-95	119.261	JSC/MSFC	OS	-	G	Sat LEO SR	MSFCFLASH	-	-
1998-069	2451151.86	1998 Dec 4 0835:34	Space Shuttle	-	STS-88	125.738	JSC/MSFC	OS	-	G	Sat ISS SR	MSFCFLASH	-	-
1999-030	2451325.95	1999 May 27 1049:42	Space Shuttle	-	STS-96	124.147	JSC/MSFC	OS	-	G	Sat ISS SR	MSFCFLASH	-	-
1999-040	2451382.69	1999 Jul 23 0431:00	Space Shuttle	-	STS-93	125.360	JSC/MSFC	OS	-	G	Sat LEO SR	JCM-P	-	-
1999-069	2451532.53	1999 Dec 20 0050:00	Space Shuttle	-	STS-103	107.177	JSC/MSFC	OS	-	G	Sat LEO SR	Wire	-	-
2000-010	2451586.24	2000 Feb 11 1743:40	Space Shuttle	-	STS-99	109.915	JSC/MSFC	OS	-	G	Sat LEO SR	Wire	-	-
2000-027	2451683.92	2000 May 19 1011:10	Space Shuttle	-	STS-101	123.299	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2000-053	2451796.03	2000 Sep 8 1245:47	Space Shuttle	-	STS-106	125.189	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2000-062	2451829.47	2000 Oct 11 2317:00	Space Shuttle	-	STS-92	124.447	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2000-078	2451879.63	2000 Dec 1 0306:01	Space Shuttle	-	STS-97	130.934	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-006	2451948.47	2001 Feb 7 2313:02	Space Shuttle	-	STS-98	127.414	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-010	2451976.99	2001 Mar 8 1142:09	Space Shuttle	-	STS-102	126.848	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-016	2452019.28	2001 Apr 19 1840:42	Space Shuttle	-	STS-100	123.598	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-028	2452102.88	2001 Jul 12 0903:59	Space Shuttle	-	STS-104	121.467	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-035	2452132.38	2001 Aug 10 2110:14	Space Shuttle	-	STS-105	126.607	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2001-054	2452249.43	2001 Dec 5 2219:28	Space Shuttle	-	STS-108	126.960	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2002-010	2452334.97	2002 Mar 1 1122:02	Space Shuttle	-	STS-109	113.838	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2002-018	2452373.36	2002 Apr 8 2044:19	Space Shuttle	-	STS-110	127.597	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2002-028	2452431.39	2002 Jun 5 2122:49	Space Shuttle	-	STS-111	127.344	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2002-047	2452555.32	2002 Oct 7 1945:51	Space Shuttle	-	STS-112	127.888	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2002-052	2452602.53	2002 Nov 24 0049:47	Space Shuttle	-	STS-113	126.008	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2003-003	2452656.15	2003 Jan 16 1539:00	Space Shuttle	-	STS-107	113.521	JSC/MSFC	OS	-	G	Sat LEO SR	Wire	-	-
2005-026	2453578.11	2005 Jul 26 1439:00	Space Shuttle	-	STS-114	126.447	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2006-028	2453921.28	2006 Jul 4 1837:55	Space Shuttle	-	STS-121	124.469	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2006-036	2453988.14	2006 Sep 9 1514:55	Space Shuttle	-	STS-115	130.540	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2006-055	2454079.57	2006 Dec 10 0147:35	Space Shuttle	-	STS-116	121.925	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2007-024	2454260.48	2007 Jun 8 2338:04	Space Shuttle	-	STS-117	132.025	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2007-035	2454321.44	2007 Aug 8 2236:42	Space Shuttle	-	STS-118	122.393	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2007-050	2454397.15	2007 Oct 23 1538:19	Space Shuttle	-	STS-120	128.532	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2008-005	2454504.32	2008 Feb 7 1945:30	Space Shuttle	-	STS-122	114.608	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2008-009	2454536.77	2008 Mar 11 0628:14	Space Shuttle	-	STS-123	124.957	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2008-027	2454618.38	2008 May 31 2102:12	Space Shuttle	-	STS-124	128.736	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2008-059	2454785.54	2008 Nov 15 0055:39	Space Shuttle	-	STS-126	128.212	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2009-012	2454906.49	2009 Mar 15 2343:44	Space Shuttle	-	STS-119	129.493	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2009-025	2454963.25	2009 May 11 1801:56	Space Shuttle	-	STS-125	115.383	JSC/MSFC	OS	-	G	Sat LEO SR	Wire	-	-
2009-038	2455028.42	2009 Jul 15 2203:10	Space Shuttle	-	STS-127	124.787	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2009-045	2455072.67	2009 Aug 29 0359:37	Space Shuttle	-	STS-128	129.898	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2009-062	2455152.31	2009 Nov 16 1928:10	Space Shuttle	-	STS-129	128.532	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2010-004	2455235.88	2010 Feb 8 0914:08	Space Shuttle	-	STS-130	129.494	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2010-012	2455291.93	2010 Apr 5 1021:25	Space Shuttle	-	STS-131	128.195	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2010-019	2455331.26	2010 May 14 1820:09	Space Shuttle	-	STS-132	125.934	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2011-008	2455617.41	2011 Feb 24 2153:24	Space Shuttle	-	STS-133	119.068	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2011-020	2455698.04	2011 May 16 1256:28	Space Shuttle	-	STS-134	122.640	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2011-031	2455751.15	2011 Jul 8 1529:04	Space Shuttle	-	STS-135	126.920	JSC/MSFC	OS	-	G	Sat ISS SR	Wire	-	-
2022-156	2459899.78	2022 Nov 16 0647:44	SLS Block 1	-	1	31.938	MSFC	DS	-	G	Sat DSO E	Wire	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2001-A24	2452144.50	2001 Aug 23	Al Samoud 2	-	-	Test 1	-	-	-	IQ160	-	-	-	45?	-	-
2001-A17	2452179.06	2001 Sep 26 1332	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2001-A25	2452193.50	2001 Oct 11	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2001-A26	2452220.77	2001 Nov 7 0630	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2001-A18	2452272.50	2001 Dec 29	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A09	2452283.91	2002 Jan 9 0949	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A10	2452284.50	2002 Jan 10	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A11	2452306.02	2002 Jan 31 1229	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A12	2452347.50	2002 Mar 14	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A13	2452375.50	2002 Apr 11	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A14	2452404.50	2002 May 10	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A15	2452431.50	2002 Jun 6	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A16	2452442.63	2002 Jun 17 0307	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A17	2452443.63	2002 Jun 18 0312	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A18	2452473.66	2002 Jul 18 0354	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A19	2452478.62	2002 Jul 23 0256	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A05	2452511.66	2002 Aug 25 0345	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A06	2452511.50	2002 Aug 25	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A07	2452577.75	2002 Oct 30 0604	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A20	2452577.84	2002 Oct 30 0812	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2002-A21	2452594.50	2002 Nov 16	Al Samoud 2	-	-	Test 2	-	-	-	IQ160	-	-	-	45?	-	-
2003-A19	2452719.42	2003 Mar 20 2208	Al Samoud 2	?	-	Kuwait	-	-	-	IQBA	N	-	-	45?	-	-
2003-A20	2452722.42	2003 Mar 23 2159	Al Samoud 2	?	-	Camp NJ	-	-	-	IQBA	NW	-	-	45?	-	-
2003-A21	2452722.94	2003 Mar 24 1035	Al Samoud 2	?	-	Camp VA/Camp NJ	-	-	-	IQBA	NQ	-	-	45?	-	-
2003-A23	2452730.75	2003 Apr 1 0603	Al Samoud 2	?	-	US Forces Iraq	-	-	-	IQNJ	-	-	-	45?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2001-A24	2452144.50	2001 Aug 23	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A17	2452179.06	2001 Sep 26 1332	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A25	2452193.50	2001 Oct 11	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A26	2452220.77	2001 Nov 7 0630	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A18	2452272.50	2001 Dec 29	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A09	2452283.91	2002 Jan 9 0949	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A10	2452284.50	2002 Jan 10	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A11	2452306.02	2002 Jan 31 1229	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A12	2452347.50	2002 Mar 14	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A13	2452375.50	2002 Apr 11	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A14	2452404.50	2002 May 10	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A15	2452431.50	2002 Jun 6	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A16	2452442.63	2002 Jun 17 0307	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A17	2452443.63	2002 Jun 18 0312	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A18	2452473.66	2002 Jul 18 0354	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A19	2452478.62	2002 Jul 23 0256	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A05	2452511.66	2002 Aug 25 0345	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A06	2452511.50	2002 Aug 25	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A07	2452577.75	2002 Oct 30 0604	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A20	2452577.84	2002 Oct 30 0812	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2002-A21	2452594.50	2002 Nov 16	Al Samoud 2	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2003-A19	2452719.42	2003 Mar 20 2208	Al Samoud 2	?	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-A20	2452722.42	2003 Mar 23 2159	Al Samoud 2	?	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-A21	2452722.94	2003 Mar 24 1035	Al Samoud 2	?	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-
2003-A23	2452730.75	2003 Apr 1 0603	Al Samoud 2	?	-	0.000	IQA	MS	-	-	Weapon	OIF-TAMD	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A96	2439347.50	1966 Aug 10	Sandhawk	-	Sandia 281-1	-	-	-	-	TTR	-	-	-	0?	-	-
1966-A105	2439383.50	1966 Sep 15	Sandhawk	-	Sandia 281-2	-	-	-	-	TTR	-	-	-	0?	-	-
1967-S59	2439507.50	1967 Jan 17	Sandhawk	-	Sandia 281-3	-	-	-	-	TTR	-	-	-	188	-	-
1967-S256	2439621.50	1967 May 11	Sandhawk	-	Sandia 281-4	-	AEC SKOL	-	-	KAU	-	-	-	151	-	-
1967-S257	2439621.50	1967 May 11	Sandhawk	-	Sandia 281-5	Dart	AEC SKOL	-	-	KAU	-	-	-	116	-	-
1967-S454	2439760.50	1967 Sep 27	Sandhawk	-	Sandia 281-6	Dart	JTF-8 Safeguard	-	-	JI	-	-	-	104	-	-
1968-S473	2440091.70	1968 Aug 23 0448	Sandhawk	-	Sandia 152-?	LRL AXE-2	-	-	-	TTR	-	-	-	187	-	-
1969-S312	2440341.50	1969 May	Sandhawk Tomahawk	-	Sandia 152-128	Dualhawk-9 Test	-	-	-	KAU	-	-	-	528	-	-
1970-S544	2440859.50	1970 Oct	Sandhawk Tomahawk	-	Sandia 152-134	Dualhawk-9 Test	-	-	-	KAU	-	-	-	515	-	-
1971-S702	2440968.53	1971 Jan 17 0040	Sandhawk Tomahawk	-	-	-	-	-	-	EGL	-	-	-	400?	-	-
1971-S528	2441242.50	1971 Oct 18	Sandhawk Tomahawk	-	BUBIA	-	-	-	-	KAU	-	-	-	470	-	-
1971-S531	2441243.50	1971 Oct 19	Sandhawk Tomahawk	-	BUBIA	-	-	-	-	KAU	-	-	-	467	-	-
1972-M02	2441382.11	1972 Mar 5 1435	Sandhawk Tomahawk	-	DLR T-DH-43	ISRO 21.01	TERLS-420 Dual Hawk	-	-	TERLS	-	-	-	52	-	-
1972-S103	2441383.79	1972 Mar 7 0652	Sandhawk Tomahawk	-	Sandia 152-188	Ba OOSIK	-	-	-	PF	-	-	-	500	-	-
1972-M03	2441388.11	1972 Mar 11 1438	Sandhawk Tomahawk	-	DLT T-DH-44	ISRO 21.02	TERLS-424 Dual Hawk	-	-	TERLS	-	-	-	52	-	-
1972-S334	2441600.04	1972 Oct 9 1251:35	Sandhawk Tomahawk	-	Sandia 152-191	Ba CHACHALACA	-	-	-	PF	-	-	-	500	-	-
1972-A106	2441602.05	1972 Oct 11 1313	Sandhawk Tomahawk	-	Sandia 152-192	Ba FAISON	-	-	-	PF	-	-	-	0?	-	-
1973-S59	2441718.70	1973 Feb 5 0448:49	Sandhawk Tomahawk	-	Sandia 152-201	Ba ZURITA	-	-	-	PF	-	-	-	500	-	-
1974-S137	2442123.02	1974 Mar 16 1228:15	Sandhawk Tomahawk	-	-	Contiga Ba ISPIDA	-	-	-	PF	-	-	-	576	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A96	2439347.50	1966 Aug 10	Sandhawk	-	Sandia 281-1	0.000	SAND	SF	U	SAND/	Test	FDS	-	-
1966-A105	2439383.50	1966 Sep 15	Sandhawk	-	Sandia 281-2	0.000	SAND	SF	U	SAND/	Test	FDS	-	-
1967-S59	2439507.50	1967 Jan 17	Sandhawk	-	Sandia 281-3	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1967-S256	2439621.50	1967 May 11	Sandhawk	-	Sandia 281-4	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	SRctCon2	-
1967-S257	2439621.50	1967 May 11	Sandhawk	-	Sandia 281-5	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1967-S454	2439760.50	1967 Sep 27	Sandhawk	-	Sandia 281-6	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1968-S473	2440091.70	1968 Aug 23 0448	Sandhawk	-	Sandia 152-?	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1969-S312	2440341.50	1969 May	Sandhawk Tomahawk	-	Sandia 152-128	0.000	SAND	SS	-	SAND/	Test	SRctCon2	-	-
1970-S544	2440859.50	1970 Oct	Sandhawk Tomahawk	-	Sandia 152-134	0.000	SAND	SS	-	SAND/	Test	SRctCon2	-	-
1971-S702	2440968.53	1971 Jan 17 0040	Sandhawk Tomahawk	-	-	0.000	SAND	SS	-	SAND/	Test	Ulrich/FDC	-	-
1971-S528	2441242.50	1971 Oct 18	Sandhawk Tomahawk	-	BUBIA	0.000	SAND?	SS	-	UAF/LASL/Wescott,Peek	Aeron/Fields	WDCRF	-	-
1971-S531	2441243.50	1971 Oct 19	Sandhawk Tomahawk	-	BUBIA	0.000	SAND?	SS	-	UAF/LASL/Wescott,Peek	Aeron/Fields	WDCRF	-	-
1972-M02	2441382.11	1972 Mar 5 1435	Sandhawk Tomahawk	-	DLR T-DH-43	0.000	ISRO/DLR	SF	U	MPE/PRL/UCB/Haeren.,Rao	Ionos	Moraba	Powell	EquSpreadF
1972-S103	2441383.79	1972 Mar 7 0652	Sandhawk Tomahawk	-	Sandia 152-188	0.000	SAND	SS	-	UAF/LASL/Wescott	Fields	PFRR	-	-
1972-M03	2441388.11	1972 Mar 11 1438	Sandhawk Tomahawk	-	DLT T-DH-44	0.000	ISRO/DLR	SF	U	MPE/PRL/UCB/Haeren.l,Rao	Ionos	Moraba	Powell	EquSpreadF
1972-S334	2441600.04	1972 Oct 9 1251:35	Sandhawk Tomahawk	-	Sandia 152-191	0.000	SAND	SS	-	UAF/LASL/Wescott	Aeron/Fields	PFRR	-	-
1972-A106	2441602.05	1972 Oct 11 1313	Sandhawk Tomahawk	-	Sandia 152-192	0.000	SAND	SF	U	UAF/LASL/Wescott	Aeron/Fields	PFRR	-	-
1973-S59	2441718.70	1973 Feb 5 0448:49	Sandhawk Tomahawk	-	Sandia 152-201	0.000	SAND	SF	U	UAF/LASL/Wescott	Aeron/Fields	PFRR	-	-
1974-S137	2442123.02	1974 Mar 16 1228:15	Sandhawk Tomahawk	-	-	0.000	SAND	SS	-	UAF/LASL/HOUS/Wescott	Aeron/Fields	SR16,631	PFRR	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S27	2459690.01	2022 Apr 20 1212	Sarmat	-	-	-	-	-	-	GNIIP	-	-	-	1000?	-	Kura
2023-S05	2459993.91	2023 Feb 18 0945?	Sarmat	-	-	-	-	-	-	GNIIP	-	-	-	100?	-	(Kura)
2024-A09	2460574.50	2024 Sep 21?	Sarmat	-	-	-	-	-	-	GNIIP	LC-SARM	-	-	0	-	(Kura)

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S27	2459690.01	2022 Apr 20 1212	Sarmat	-	-	0.000	RVSNR	MS	-	-	Test	Wire	-	-
2023-S05	2459993.91	2023 Feb 18 0945?	Sarmat	-	-	0.000	RVSNR	MF	U	-	Test	Wire	-	-
2024-A09	2460574.50	2024 Sep 21?	Sarmat	-	-	0.000	RVSNR	MF	PE	-	Test	Wire	-	Exploded in silo?

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S357	2437600.13	1961 Oct 27 1506:04	Saturn C-1	-	SA-1	-	-	-	-	CC	LC34	-	-	136	-	-
1962-S108	2437780.08	1962 Apr 25 1400:34	Saturn C-1	-	SA-2	-	-	-	-	CC	LC34	-	-	145	-	-
1962-S480	2437985.24	1962 Nov 16 1745:02	Saturn C-1	-	SA-3	-	-	-	-	CC	LC34	-	-	167	-	-
1963-S121	2438117.34	1963 Mar 28 2011:55	Saturn I	-	SA-4	-	-	-	-	CC	LC34	-	-	129	-	-
1964-005	2438424.18	1964 Jan 29 1625:01	Saturn I	Blk2	SA-5	SA-5	Jupiter Nosecone/Ballast	-	-	CC	LC37B	-	-	757	-	-
1964-025	2438544.21	1964 May 28 1707:00	Saturn I	Blk2	SA-6	AS-106	Apollo BP-13 CM	-	-	CC	LC37B	-	-	218	-	-
1964-057	2438657.18	1964 Sep 18 1622:43	Saturn I	Blk2	SA-7	AS-107	Apollo BP-15 CM	-	-	CC	LC37B	-	-	217	-	-
1965-009	2438808.11	1965 Feb 16 1437:03	Saturn I	Blk2	SA-9	AS-109/Pegasus 1	Pegasus 1	-	-	CC	LC37B	-	-	741	-	-
1965-039	2438905.82	1965 May 25 0735:01	Saturn I	Blk2	SA-8	AS-108/Pegasus 2	Pegasus 2	-	-	CC	LC37B	-	-	742	-	-
1965-060	2438972.04	1965 Jul 30 1300:00	Saturn I	Blk2	SA-10	AS-110/Pegasus 3	Pegasus 3	-	-	CC	LC37B	-	-	568	-	-
1966-U04	2439183.18	1966 Feb 26 1612:01	Saturn IB	-	SA-201	AS-201	Apollo CM-009	-	-	CC	LC34	-	-	488	-	-
1966-059	2439312.12	1966 Jul 5 1453:17	Uprated Saturn I	-	SA-203	AS-203	Subcritical Cryo LN2 Exp	-	-	CC	LC37B	-	-	214	-	-
1966-U06	2439363.22	1966 Aug 25 1715:32	Uprated Saturn I	-	SA-202	AS-202	Apollo CM-011	-	-	CC	LC34	-	-	1143	-	-
1968-007	2439878.45	1968 Jan 22 2248:08	Saturn IB	-	SA-204	Apollo 5	Apollo 5	-	-	CC	LC37B	-	-	980	-	-
1968-089	2440141.13	1968 Oct 11 1502:45	Saturn IB	-	SA-205	Apollo 7	Apollo CM-101	-	-	CC	LC34	-	-	446	-	-
1973-032	2441828.04	1973 May 25 1300:00	Saturn IB	-	SA-206	Skylab 2	Apollo CM-116	-	LUT1	KSC	LC39B	-	-	441	-	-
1973-050	2441891.97	1973 Jul 28 1110:50	Saturn IB	-	SA-207	Skylab 3	Apollo CM-117	-	LUT1	KSC	LC39B	-	-	440	-	-
1973-090	2442003.08	1973 Nov 16 1401:23	Saturn IB	-	SA-208	Skylab 4	CM-118	-	LUT1	KSC	LC39B	-	-	456	-	-
1975-066	2442609.33	1975 Jul 15 1950:01	Saturn IB	-	SA-210	ASTP	Apollo CM-111	-	LUT1	KSC	LC39B	-	-	236	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S357	2437600.13	1961 Oct 27 1506:04	Saturn C-1	-	SA-1	0.000	MSFC	TS	-	-	Test	MPR-SAT-WF-61-8	-	-
1962-S108	2437780.08	1962 Apr 25 1400:34	Saturn C-1	-	SA-2	0.000	MSFC	TS	-	-	Test	SP-4205	-	-
1962-S480	2437985.24	1962 Nov 16 1745:02	Saturn C-1	-	SA-3	0.000	MSFC	TS	-	-	Test	SP-4205	-	-
1963-S121	2438117.34	1963 Mar 28 2011:55	Saturn I	-	SA-4	0.000	MSFC	TS	-	-	Test	SP-4205	-	-
1964-005	2438424.18	1964 Jan 29 1625:01	Saturn I	Blk2	SA-5	0.000	MSFC	OS	-	G	Sat LEO A	SP-4205	-	-
1964-025	2438544.21	1964 May 28 1707:00	Saturn I	Blk2	SA-6	16.237	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1964-057	2438657.18	1964 Sep 18 1622:43	Saturn I	Blk2	SA-7	16.393	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1965-009	2438808.11	1965 Feb 16 1437:03	Saturn I	Blk2	SA-9	15.370	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1965-039	2438905.82	1965 May 25 0735:01	Saturn I	Blk2	SA-8	15.473	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1965-060	2438972.04	1965 Jul 30 1300:00	Saturn I	Blk2	SA-10	15.620	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1966-U04	2439183.18	1966 Feb 26 1612:01	Saturn IB	-	SA-201	8.684	MSFC	TS	-	-	Reentry Test	SP-4205	-	-
1966-059	2439312.12	1966 Jul 5 1453:17	Uprated Saturn I	-	SA-203	1.656	MSFC	OS	-	G	Sat LEO D	SP-4205	-	-
1966-U06	2439363.22	1966 Aug 25 1715:32	Uprated Saturn I	-	SA-202	10.038	MSFC	TS	-	-	Reentry Test	SP-4205	-	-
1968-007	2439878.45	1968 Jan 22 2248:08	Saturn IB	-	SA-204	14.747	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1968-089	2440141.13	1968 Oct 11 1502:45	Saturn IB	-	SA-205	14.780	MSFC	OS	-	G	Sat LEO O	SP-4205	-	-
1973-032	2441828.04	1973 May 25 1300:00	Saturn IB	-	SA-206	14.023	MSFC	OS	-	G	Sat LSS D	MPR-SAT-FE-73-3	-	-
1973-050	2441891.97	1973 Jul 28 1110:50	Saturn IB	-	SA-207	14.168	MSFC	OS	-	G	Sat LSS D	MPR-SAT-FE-73-5	-	-
1973-090	2442003.08	1973 Nov 16 1401:23	Saturn IB	-	SA-208	14.888	MSFC	OS	-	G	Sat LSS D	MPR-SAT-FE-74-1	-	-
1975-066	2442609.33	1975 Jul 15 1950:01	Saturn IB	-	SA-210	16.116	MSFC	OS	-	G	Sat LEO D	AdvAstSci34	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-113	2439804.00	1967 Nov 9 1200:01	Saturn V	-	SA-501	Apollo 4	Apollo CM-017	-	LUT1	KSC	LC39A	-	-	18188	-	-
1968-025	2439951.00	1968 Apr 4 1200:01	Saturn V	-	SA-502	Apollo 6	Apollo CM-020	-	LUT2	KSC	LC39A	-	-	22618	-	-
1968-118	2440212.04	1968 Dec 21 1251:00	Saturn V	-	SA-503	Apollo 8	Apollo CM-103	-	LUT1	KSC	LC39A	-	-	150000	-	-
1969-018	2440284.17	1969 Mar 3 1600:00	Saturn V	-	SA-504	Apollo 9	Apollo CM-104	-	LUT2	KSC	LC39A	-	-	150000	-	-
1969-043	2440360.20	1969 May 18 1649:00	Saturn V	-	SA-505	Apollo 10	Apollo CM-106	-	LUT3	KSC	LC39B	-	-	150000	-	-
1969-059	2440419.06	1969 Jul 16 1332:00	Saturn V	-	SA-506	Apollo 11	Apollo CM-107	-	LUT1	KSC	LC39A	-	-	150000	-	-
1969-099	2440540.18	1969 Nov 14 1622:00	Saturn V	-	SA-507	Apollo 12	Apollo CM-108	-	LUT2	KSC	LC39A	-	-	150000	-	-
1970-029	2440688.30	1970 Apr 11 1913:03	Saturn V	-	SA-508	Apollo 13	Apollo CM-109	-	LUT3	KSC	LC39A	-	-	150000	-	-
1971-008	2440983.38	1971 Jan 31 2103:02	Saturn V	-	SA-509	Apollo 14	Apollo CM-110	-	LUT2	KSC	LC39A	-	-	150000	-	-
1971-063	2441159.07	1971 Jul 26 1334:00	Saturn V	-	SA-510	Apollo 15	Apollo CM-112	-	LUT3	KSC	LC39A	-	-	150000	-	-
1972-031	2441424.25	1972 Apr 16 1754:00	Saturn V	-	SA-511	Apollo 16	Apollo CM-113	-	LUT3	KSC	LC39A	-	-	150000	-	-
1972-096	2441658.73	1972 Dec 7 0533:00	Saturn V	-	SA-512	Apollo 17	Apollo CM-114	-	LUT3	KSC	LC39A	-	-	150000	-	-
1973-027	2441817.23	1973 May 14 1730:00	Saturn V	2	SA-513	Skylab 1	Skylab I OWS	-	LUT2	KSC	LC39A	-	-	1065	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-113	2439804.00	1967 Nov 9 1200:01	Saturn V	-	SA-501	23.542	MSFC	OS	-	G	Sat LEO D	KHR-1	-	-
1968-025	2439951.00	1968 Apr 4 1200:01	Saturn V	-	SA-502	50.372	MSFC	OS	-	G	Sat LEO O	KHR-1	-	-
1968-118	2440212.04	1968 Dec 21 1251:00	Saturn V	-	SA-503	29.968	MSFC	DS	-	G	Sat EEO E	Wire	-	-
1969-018	2440284.17	1969 Mar 3 1600:00	Saturn V	-	SA-504	42.479	MSFC	DS	-	G	Sat LEO E	KHR-1	-	-
1969-043	2440360.20	1969 May 18 1649:00	Saturn V	-	SA-505	42.676	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1969-059	2440419.06	1969 Jul 16 1332:00	Saturn V	-	SA-506	45.060	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1969-099	2440540.18	1969 Nov 14 1622:00	Saturn V	-	SA-507	45.237	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1970-029	2440688.30	1970 Apr 11 1913:03	Saturn V	-	SA-508	47.140	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1971-008	2440983.38	1971 Jan 31 2103:02	Saturn V	-	SA-509	45.680	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1971-063	2441159.07	1971 Jul 26 1334:00	Saturn V	-	SA-510	48.002	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1972-031	2441424.25	1972 Apr 16 1754:00	Saturn V	-	SA-511	48.024	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1972-096	2441658.73	1972 Dec 7 0533:00	Saturn V	-	SA-512	47.984	MSFC	DS	-	G	Sat EEO E	KHR-1	-	-
1973-027	2441817.23	1973 May 14 1730:00	Saturn V	2	SA-513	85.694	MSFC	OS	-	G	Sat LSS O	KHR-1	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-A100	2437043.46	1960 Apr 18 2309	Scout X	-	SX-1	Cub Scout	-	-	-	WI	LA3	-	-	48	-	-
1960-S161	2437117.50	1960 Jul 2 0004	Scout X-1	-	ST-1	-	-	-	-	WI	LA3	-	-	1380	-	-
1960-U03	2437212.14	1960 Oct 4 1523	Scout X-1	-	ST-2	Radiation Probe	ST-2	-	-	WI	LA3	-	-	5600	-	-
1960-F17	2437273.38	1960 Dec 4 2114	Scout X-1	-	ST-3	S-56	NASA S-56	-	-	WI	LA3	-	-	40?	-	-
1961-S12	2437307.23	1961 Jan 7 1733:42	Blue Scout I	-	D-3	HETS A1-1	-	-	-	CC	LC18B	-	-	1600	-	-
1961 DEL	2437347.05	1961 Feb 16 1305	Scout X-1	-	ST-4	Explorer 9	NASA S-56A	-	-	WI	LA3	-	-	2605	-	-
1961-S66	2437362.17	1961 Mar 3 1602	Blue Scout II	-	D-4	HETS A2-1	-	-	-	CC	LC18B	-	-	2540	-	-
1961-S109	2437401.75	1961 Apr 12 0607	Blue Scout II	-	D-5	HETS A2-2	-	-	-	CC	LC18B	-	-	1931	-	-
1961-A123	2437429.17	1961 May 9 1600:22	Blue Scout I	-	D-6	HETS A1-2	-	-	-	CC	LC18B	-	-	10?	-	-
1961-F06	2437481.21	1961 Jun 30 1709	Scout X-1	-	ST-5	S-55	NASA S-55	-	-	WI	LA3	-	-	172	-	-
1961 CHI	2437537.27	1961 Aug 25 1829:44	Scout X-1	-	ST-6	Explorer 13	NASA S-55A	-	-	WI	LA3	-	-	1164	-	-
1961-U03	2437592.23	1961 Oct 19 1738	Scout X-1	-	ST-7	P-21	ST-7	-	-	WI	LA3	-	-	6855	-	-
1961-F12	2437605.15	1961 Nov 1 1532	Blue Scout II	-	D-8	Mercury-Scout 1	Mercury MS-1	-	-	CC	LC18B	-	-	5?	-	-
1962-S51	2437724.71	1962 Mar 1 0507	Scout X-1A	-	ST-8	Reentry 1	-	-	-	WI	LA3	-	-	214	-	-
1962-U01	2437752.81	1962 Mar 29 0727	Scout X-2	1C	ST-9	P-21A	ST-9	-	-	WI	LA3	-	-	6291	-	-
1962-A50	2437767.17	1962 Apr 12 1600:25	Blue Scout I	-	D-7	Reentry Test	-	-	-	CC	LC18B	-	-	30?	-	-
1962-F03	2437780.95	1962 Apr 26 1049	Scout X-2	-	S111	GRAB/SR 4B	GRAB SV5	BLUE SCOUT I	-	PA	LC-D	-	-	100?	-	-
1962-F05	2437808.50	1962 May 24	Scout X-2M	-	S112	FTV 3501 (AF-1)	P35-1	BLUE SCOUT II	-	PA	LC-D	-	-	40?	-	-
1962 A OMI	2437899.98	1962 Aug 23 1133?	Scout X-2M	-	S117	FTV 3502 (AF-2)	P35-2	BLUE SCOUT III	-	PA	LC-D	-	-	978	-	-
1962-U03	2437908.18	1962 Aug 31 1625	Scout X-3A	-	S114	Reentry 2	Reentry 2	-	-	WI	LA3	-	-	217	-	-
1962 B CHI	2438015.11	1962 Dec 16 1433:04	Scout X-3	-	S115	Explorer 16	NASA S-55B	-	-	WI	LA3	-	-	1188	-	-
1962 B PSI	2438017.56	1962 Dec 19 0125:45	Scout X-3	-	S118	Transit VA-1 (N-1)	Transit VA-1	BLUE SCOUT IV	-	PA	LC-D	-	-	839	-	-
1963-005	2438080.20	1963 Feb 19 1652?	Scout X-3M	-	S126	OPS 0240 (AF-3)	P35-3	BLUE SCOUT V	-	PA	LC-D	-	-	860	-	-
1963-F04	2438124.63	1963 Apr 5 0301:43	Scout X-3	-	S119	Transit VA-2 (N-2)	Transit VA-2	BLUE SCOUT VI	-	PA	LC-D	-	-	700?	-	-
1963-F06	2438145.50	1963 Apr 26	Scout X-2M	-	S121	OPS 1298 (AF-4)	P35-4	BLUE SCOUT VII	-	PA	LC-D	-	-	100?	-	-
1963-S226	2438171.69	1963 May 22 0438	Scout X-3	-	S116	RFD-1	-	-	-	WI	LA3	-	-	145	-	-
1963-022	2438196.58	1963 Jun 16 0149:52	Scout X-3	-	S120	Transit VA-3 (N-3)	Transit VA-3	BLUE SCOUT VIII	-	PA	LC-D	-	-	905	-	-
1963-026	2438209.39	1963 Jun 28 2119:22	Scout X-4	-	S113	GRS (PL-19, CRL-1)	AFCRL A	-	-	WI	LA3	-	-	1313	-	-
1963-A109	2438230.74	1963 Jul 20 0544:08	Scout X-3A	-	S110	Reentry 3	-	-	-	WI	LA3	-	-	2?	-	-
1963-F12	2438299.97	1963 Sep 27 1117:49	Scout X-2B	-	S132	OPS 1610 (AF-5)	P35-5	BLUE SCOUT IX	-	PA	LC-D	-	-	730?	-	-
1963-053	2438383.28	1963 Dec 19 1849:25	Scout X-4	-	S122R	Explorer 19	AD-A	BLUE SCOUT X	-	PA	LC-D	-	-	2404	-	-
1964-015	2438482.23	1964 Mar 27 1725:23	Scout X-3	-	S127R	Ariel 2	UK-C	-	-	WI	LA3	-	-	1538	-	-
1964-026	2438550.66	1964 Jun 4 0350:55	Scout X-4	-	S125R	Transit VC (N-4)	Transit VC	ARROW PLANT	-	PA	LC-D	-	-	987	-	-
1964-F08	2438571.57	1964 Jun 25 0140:24	Scout X-4	-	S128R	ESRS (PL-94, CRL-2)	AFCRL B	CHERRY PIE	-	PA	LC-D	-	-	20?	-	-
1964-S371	2438596.95	1964 Jul 20 1053	Scout X-4	-	S124R	SERT 1	-	-	-	WI	LA3A	-	-	4002	-	-
1964-U04	2438625.75	1964 Aug 18 0605	Scout X-4A	-	S129R	Reentry 4	Reentry 4	-	-	WI	LA3	-	-	183	-	-
1964-051	2438633.07	1964 Aug 25 1343	Scout X-4	-	S134R	Explorer 20	NASA S-48	HURRY BABY	-	VS	PALC-D	-	-	1024	-	-
1964-S513	2438677.67	1964 Oct 9 0404:56	Scout X-3C	-	S130R	RFD-2	-	-	-	WI	LA3A	-	-	132	-	-
1964-064	2438678.63	1964 Oct 10 0301	Scout X-4	-	S123R	Explorer 22	Beacon Explorer B	GUS GOOSE	-	VS	PALC-D	-	-	1126	-	-
1964-074	2438706.00	1964 Nov 6 1202:01	Scout X-4	-	S133R	Explorer 23	NASA S-55C	-	-	WI	LA3	-	-	980	-	-
1964-076	2438721.22	1964 Nov 21 1709:39	Scout X-4	-	S135R	Explorer 24/25	AD-B	IMA BIRD	-	VS	PALC-D	-	-	2510	-	-
1964-084	2438745.35	1964 Dec 15 2020:04	Scout X-4	-	S137R	San Marco 1	San Marco 1	-	-	WI	LA3A	-	-	844	-	-
1965-032	2438880.10	1965 Apr 29 1417:00	Scout X-4	-	S136R	Explorer 27	Beacon Explorer C	-	-	WI	LA3A	-	-	1388	-	-
1965-063	2438983.25	1965 Aug 10 1754:00	Scout B	-	S131R	SEV/Secor 5	Secor Type I S/N 2	-	-	WI	LA3A	-	-	2427	-	-
1965-093	2439083.70	1965 Nov 19 0448:27	Scout X-4	-	S138R	Explorer 30	Solar Explorer A	-	-	WI	LA3A	-	-	932	-	-
1965-101	2439101.38	1965 Dec 6 2105:47	Scout X-4	-	S139R	FR-1	FR-1	SQUEEKY HUB?	-	VS	PALC-D	-	-	780	-	-
1965-109	2439116.69	1965 Dec 22 0433:04	Scout A	-	S140C	NNS O-6 (N-5)	NNS O-6	SOCIAL CIRCLE	-	VS	PALC-D	-	-	1306	-	-
1966-005	2439154.21	1966 Jan 28 1706:00	Scout A	-	S142C	NNS O-7 (N-6)	NNS O-7	INVENTORY AID	-	VS	PALC-D	-	-	1392	-	-
1966-U03	2439166.54	1966 Feb 10 0055	Scout X-4A	-	S141C	Reentry 4B	Reentry E	-	-	WI	LA3A	-	-	175	-	-
1966-024	2439210.65	1966 Mar 26 0331:00	Scout A	-	S143C	NNS O-8 (N-7)	NNS O-8	BEST GIRL	-	VS	PALC-D	-	-	1141	-	-
1966-034	2439237.91	1966 Apr 22 0945:00	Scout B	-	S145C	OV3-1	OV3-1	LABRADOR RETRIEVER	-	VS	PALC-D	-	-	5774	-	-
1966-041	2439264.60	1966 May 19 0227:00	Scout A	-	S146C	NNS O-9 (N-8)	NNS O-9	DANCE LESSON	-	VS	PALC-D	-	-	1201	-	-
1966-052	2439286.68	1966 Jun 10 0415	Scout B	-	S147C	OV3-4	OV3-4 PHASR	-	-	WI	LA3A	-	-	4854	-	-
1966-070	2439341.95	1966 Aug 4 1045:01	Scout B	-	S148C	OV3-3	OV3-3	RUBBER MAT	-	VS	SLC5	-	-	4588	-	-
1966-076	2439355.60	1966 Aug 18 0225:02	Scout A	-	S149C	NNS O-10 (N-9)	NNS O-10	MARBLE HALL	-	VS	SLC5	-	-	1227	-	-
1966-097	2439427.00	1966 Oct 28 1156:02	Scout B	-	S150C	OV3-2	OV3-2	BUSY SERVICE	-	VS	SLC5	-	-	1670	-	-
1967-F01	2439522.03	1967 Jan 31 1245:01	Scout B	-	S151C	OV3-5	ATCOS 1	BUSY MASON	-	VS	SLC5	-	-	430?	-	-
1967-034	2439594.64	1967 Apr 14 0325:00	Scout A	-	S154C	NNS O-12 (N-10)	NNS O-12	BUSY MINUTEMAN	-	VS	SLC5	-	-	1284	-	-
1967-038	2439606.92	1967 Apr 26 1006:24	Scout B	-	S153C	San Marco 2	San Marco B	-	-	SMLC	-	-	-	739	-	-
1967-042	2439616.17	1967 May 5 1600:01	Scout A	-	S155C	Ariel 3	UK-3	BUSY WIFE	-	VS	SLC5	-	-	646	-	-
1967-048	2439628.88	1967 May 18 0905:01	Scout A	-	S156C	NNS O-13 (N-11)	NNS O-13	BUSY OCEAN	-	VS	SLC5	-	-	1102	-	-
1967-F05	2439640.59	1967 May 30 0206:00	Scout B	-	S152C	ESRO 2A	ESRO 2A	OLD FAD	-	VS	SLC5	-	-	350?	-	-
1967-092	2439758.85	1967 Sep 25 0825:00	Scout A	-	S157C	NNS O-14 (N-12)	NNS O-14	-	-	VS	SLC5	-	-	1339	-	-
1967-U04	2439783.23	1967 Oct 19 1733:00	Scout B	-	S159C	RAM C-1	RAM C-1	-	-	WI	LA3A	-	-	217	-	-
1967-120	2439829.54	1967 Dec 5 0103:46	Scout B	-	S158C	OV3-6	OV3-6	-	-	VS	SLC5	-	-	457	-	-
1968-012	2439917.66	1968 Mar 2 0355:01	Scout A	-	S162C	NNS O-18 (N-13)	NNS O-18	-	-	VS	SLC5	-	-	1325	-	-
1968-017	2439921.27	1968 Mar 5 1828:00	Scout B	-	S160C	Explorer 37	Solar Explorer B	-	-	WI	LA3A	-	-	989	-	-
1968-S289	2439973.72	1968 Apr 27 0519	Scout X-5C	-	S164C	Reentry F	-	-	-	WI	LA3A	-	-	175	-	-
1968-041	2439993.59	1968 May 17 0206:00	Scout B	-	S161C	ESRO 2B	ESRO 2B	-	-	VS	SLC5	-	-	1092	-	-
1968-066	2440077.34	1968 Aug 8 2012:00	Scout B	-	S165C	Explorer 39/40	AD-C	-	-	VS	SLC5	-	-	2554	-	-
1968-U03	2440091.14	1968 Aug 22 1516	Scout B	-	S168C	RAM C-2	RAM C-2	-	-	WI	LA3A	-	-	227	-	-
1968-084	2440133.37	1968 Oct 3 2049:39	Scout B	-	S167C	ESRO 1A	ESRO 1A	-	-	VS	SLC5	-	-	1532	-	-
1969-083	2440496.44	1969 Oct 1 2229:00	Scout B	-	S172C	ESRO 1B	ESRO 1B	-	-	VS	SLC5	-	-	441	-	-
1969-097	2440533.58	1969 Nov 8 0152	Scout B	-	S169C	Azur	GRS-A	-	-	VS	SLC5	-	-	3150	-	-
1970-067	2440826.06	1970 Aug 27 1323:34	Scout A	-	S176C	NNS O-19 (N-14)	NNS O-19	-	-	VS	SLC5	-	-	1468	-	-
1970-S545	2440860.34	1970 Sep 30 2006:29	Scout B	-	S171C	RAM C-3	-	-	-	WI	LA3A	-	-	269	-	-
1970-094	2440899.75	1970 Nov 9 0600:00	Scout B	-	S174C	OFO	OFO	-	-	WI	LA3A	-	-	528	-	-
1970-107	2440932.95	1970 Dec 12 1053:50	Scout B	-	S175C	Explorer 42	SAS A	-	-	SMLC	-	-	-	575	-	-
1971-036	2441065.81	1971 Apr 24 0732:29	Scout B	-	S173C	San Marco C	San Marco C	-	-	SMLC	-	-	-	721	-	-
1971-S334	2441123.31	1971 Jun 20 1931:00	Scout B	-	S144CR	PAET	-	-	-	WI	LA3A	-	-	377	-	-
1971-058	2441141.46	1971 Jul 8 2258:00	Scout B	-	S177C	Explorer 44	Solar Explorer C	-	-	WI	LA3A	-	-	655	-	-
1971-071	2441180.28	1971 Aug 16 1839:00	Scout B-1	F	S180C	Eole	Eole	-	-	WI	LA3A	-	-	1196	-	-
1971-U03	2441215.48	1971 Sep 20 2331:00	Scout B	-	S166C	BIC	Barium Ion Cloud	-	-	WI	LA3A	-	-	31479	-	-
1971-096	2441270.74	1971 Nov 15 0552:00	Scout B	-	S163CR	Explorer 45	SSS A	-	-	SMLC	-	-	-	26888	-	-
1971-109	2441297.37	1971 Dec 11 2047:01	Scout B-1	F	S183C	Ariel 4	UK 4	-	-	VS	SLC5	-	-	659	-	-
1972-069	2441563.24	1972 Sep 2 1750:30	Scout B-1	F	S182C	Triad	Triad OI-1X	-	-	VS	SLC5	-	-	869	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-081	2441985.53	1973 Oct 30 0037:02	Scout A-1	-	S178C	NNS O-20 (N-15)	NNS O-20	-	-	VS	SLC5	-	-	1197	-	-
1974-077	2442335.82	1974 Oct 15 0747:00	Scout B-1	-	S187C	Ariel 5	UK 5	-	-	SMLC	-	-	-	552	-	-
1976-047	2442920.82	1976 May 22 0742:16	Scout B-1	-	S179CR	P76-5	NNS O-15	-	-	VS	SLC5	-	-	1126	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-A1OO	2437043.46	1960 Apr 18 2309	Scout X	-	SX-1	0.000	LARCN	RF	S3	LARC/	Test	UPI	RP-1028	-
1960-S161	2437117.50	1960 Jul 2 0004	Scout X-1	-	ST-1	0.000	LARCN	RF	S4I	LARC/	Test	Desind,Wire	AE1960	-
1960-U03	2437212.14	1960 Oct 4 1523	Scout X-1	-	ST-2	0.081	LARCN	RS	-	AFSWC/Knecht,Hale	Plasma	WDCRF	-	-
1960-F17	2437273.38	1960 Dec 4 2114	Scout X-1	-	ST-3	0.006	LARCN	OF	S2I	G	Sat LEO O	Wire	MR601212-10	S2 failed
1961-S12	2437307.23	1961 Jan 7 1733:42	Blue Scout I	-	D-3	0.000	AFBMD	RS	-	HCO/Lilley,Katz	Plasma/RF Astron	HSRP-104	AFCRL2	-
1961 DEL	2437347.05	1961 Feb 16 1305	Scout X-1	-	ST-4	0.006	LARCN	OS	-	G	Sat LEO O	NYT610217	-	-
1961-S66	2437362.17	1961 Mar 3 1602	Blue Scout II	-	D-4	0.000	AFBMD	RS	-	AFSWC/Knecht	Plasma	UPI	AE1961	-
1961-S109	2437401.75	1961 Apr 12 0607	Blue Scout II	-	D-5	0.000	AFSSD	RS	-	AFCRL/Sagalyn,Katz	Plasma	AFCRL2	JGR69-1809	-
1961-A123	2437429.17	1961 May 9 1600:22	Blue Scout I	-	D-6	0.000	AFSSD	RF	S2G	AFSWC/	Plasma	N66-80960	-	-
1961-F06	2437481.21	1961 Jun 30 1709	Scout X-1	-	ST-5	0.062	LARCN	OF	S3I	G	Sat LEO A	Gatland1	AE1961	S3 failed
1961 CHI	2437537.27	1961 Aug 25 1829:44	Scout X-1	-	ST-6	0.086	LARCN	OS	-	G	Sat LEO A	TN-D-2468	Gatland1	-
1961-U03	2437592.23	1961 Oct 19 1738	Scout X-1	-	ST-7	0.067	LARCN	RS	-	GSFC/Bauer,Jackson	Plasma/Aeron	WDCRF	TN-D-2593	-
1961-F12	2437605.15	1961 Nov 1 1532	Blue Scout II	-	D-8	0.068	AFSSD	OF	S1G	G	Sat LEO O	KHR-1	-	Guidance failed
1962-S51	2437724.71	1962 Mar 1 0507	Scout X-1A	-	ST-8	0.000	LARCN	TS	-	LARC/	Reentry Test	Desind	AE1962	-
1962-U01	2437752.81	1962 Mar 29 0727	Scout X-2	1C	ST-9	0.067	LARCN	RS	-	GSFC/Bauer,Jackson	Plasma/Aeron	WDCRF	JGR68-2058	-
1962-A50	2437767.17	1962 Apr 12 1600:25	Blue Scout I	-	D-7	0.000	AFSSD	TF	S2I	AFCRL/Rotman	Reentry Test	Desind	-	-
1962-F03	2437780.95	1962 Apr 26 1049	Scout X-2	-	S111	0.025	AFSSD	OF	S3P	G	Sat LEO O	NROC-HIST	Pilkington	Antares failure
1962-F05	2437808.50	1962 May 24	Scout X-2M	-	S112	0.050	AFSSD	OF	S2P	G	Sat SSO O	VAFB	-	Castor exploded?
1962 A OMI	2437899.98	1962 Aug 23 1133?	Scout X-2M	-	S117	0.050	AFSSD	OS	-	G	Sat SSO O	TLE	-	-
1962-U03	2437908.18	1962 Aug 31 1625	Scout X-3A	-	S114	0.083	LARCN	TS	-	LARC/	Reentry Test	TN-D-1818	-	-
1962 B CHI	2438015.11	1962 Dec 16 1433:04	Scout X-3	-	S115	0.100	LARCN	OS	-	G	Sat LEO A	LAAFB	TN-D-2445	-
1962 B PSI	2438017.56	1962 Dec 19 0125:45	Scout X-3	-	S118	0.059	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1963-005	2438080.20	1963 Feb 19 1652?	Scout X-3M	-	S126	0.050	AFSSD	OS	-	G	Sat SSO O	TLE	FI630228-315	RAE -
1963-F04	2438124.63	1963 Apr 5 0301:43	Scout X-3	-	S119	0.059	AFSSD	OF	S4G	G	Sat LEO O	LAAFB	-	Lost attitude in coast
1963-F06	2438145.50	1963 Apr 26	Scout X-2M	-	S121	0.050	AFSSD	OF	AD	G	Sat SSO O	VAFB	-	Pop music destruct
1963-S226	2438171.69	1963 May 22 0438	Scout X-3	-	S116	0.000	LARCN	TS	-	-	Reentry Test	Desind	SP-4004	-
1963-022	2438196.58	1963 Jun 16 0149:52	Scout X-3	-	S120	0.061	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1963-026	2438209.39	1963 Jun 28 2119:22	Scout X-4	-	S113	0.099	LARCN	OS	-	G	Sat LEO A	LAAFB	-	-
1963-A109	2438230.74	1963 Jul 20 0544:08	Scout X-3A	-	S110	0.000	LARCN	TF	S1P	LARC/	Reentry Test	SFLT79-446	SP-4004	-
1963-F12	2438299.97	1963 Sep 27 1117:49	Scout X-2B	-	S132	0.050	AFSSD	OF	S4G	G	Sat SSO O	LAAFB	-	Lost attitude in coast
1963-053	2438383.28	1963 Dec 19 1849:25	Scout X-4	-	S122R	0.008	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1964-015	2438482.23	1964 Mar 27 1725:23	Scout X-3	-	S127R	0.068	LARCN	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1964-026	2438550.66	1964 Jun 4 0350:55	Scout X-4	-	S125R	0.054	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1964-F08	2438571.57	1964 Jun 25 0140:24	Scout X-4	-	S128R	0.079	AFSSD	OF	AD	G	Sat LEO O	LAAFB	-	Faulty wiring, S2I destruct
1964-S371	2438596.95	1964 Jul 20 1053	Scout X-4	-	S124R	0.000	LARCN	RS	-	LERC/Gold	Tech	WDCRF	-	-
1964-U04	2438625.75	1964 Aug 18 0605	Scout X-4A	-	S129R	0.177	LARCN	TS	-	LARC/Hallissy	Reentry Test	MOR R-711-64-04	-	-
1964-051	2438633.07	1964 Aug 25 1343	Scout X-4	-	S134R	0.044	AFSSD	OS	-	G	Sat LEO O	Wire	-	-
1964-S513	2438677.67	1964 Oct 9 0404:56	Scout X-3C	-	S130R	0.000	LARCN	TS	-	-	Reentry Test	MND-3283-2	SP-4005	-
1964-064	2438678.63	1964 Oct 10 0301	Scout X-4	-	S123R	0.052	AFSSD	OS	-	G	Sat LEO O	Wire	-	-
1964-074	2438706.00	1964 Nov 6 1202:01	Scout X-4	-	S133R	0.134	LARCN	OS	-	G	Sat LEO A	TN-D-4284	-	-
1964-076	2438721.22	1964 Nov 21 1709:39	Scout X-4	-	S135R	0.049	AFSSD	OS	-	G	Sat LEO O	MOR S-863-64-02	-	-
1964-084	2438745.35	1964 Dec 15 2020:04	Scout X-4	-	S137R	0.116	LARCN	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1965-032	2438880.10	1965 Apr 29 1417:00	Scout X-4	-	S136R	0.055	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1965-063	2438983.25	1965 Aug 10 1754:00	Scout B	-	S131R	0.065	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1965-093	2439083.70	1965 Nov 19 0448:27	Scout X-4	-	S138R	0.057	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1965-101	2439101.38	1965 Dec 6 2105:47	Scout X-4	-	S139R	0.062	AFSSD	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1965-109	2439116.69	1965 Dec 22 0433:04	Scout A	-	S140C	0.051	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1966-005	2439154.21	1966 Jan 28 1706:00	Scout A	-	S142C	0.050	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1966-U03	2439166.54	1966 Feb 10 0055	Scout X-4A	-	S141C	0.105	LARCN	TS	-	LARC/Hallissy	Reentry Test	MOR R-711-66-05	-	-
1966-024	2439210.65	1966 Mar 26 0331:00	Scout A	-	S143C	0.051	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1966-034	2439237.91	1966 Apr 22 0945:00	Scout B	-	S145C	0.069	AFSSD	OS	-	G	Sat MEO O	LAAFB	-	-
1966-041	2439264.60	1966 May 19 0227:00	Scout A	-	S146C	0.051	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1966-052	2439286.68	1966 Jun 10 0415	Scout B	-	S147C	0.078	LARCN	OS	-	G	Sat MEO O	LAAFB	-	-
1966-070	2439341.95	1966 Aug 4 1045:01	Scout B	-	S148C	0.077	AFSSD	OS	-	G	Sat MEO O	LAAFB	-	-
1966-076	2439355.60	1966 Aug 18 0225:02	Scout A	-	S149C	0.049	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1966-097	2439427.00	1966 Oct 28 1156:02	Scout B	-	S150C	0.082	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1967-F01	2439522.03	1967 Jan 31 1245:01	Scout B	-	S151C	0.095	AFSSD	OF	S4P	G	Sat LEO O	LAAFB	-	Nozzle failed
1967-034	2439594.64	1967 Apr 14 0325:00	Scout A	-	S154C	0.050	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1967-038	2439606.92	1967 Apr 26 1006:24	Scout B	-	S153C	0.129	CRA	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1967-042	2439616.17	1967 May 5 1600:01	Scout A	-	S155C	0.090	AFSSD	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1967-048	2439628.88	1967 May 18 0905:01	Scout A	-	S156C	0.050	AFSSD	OS	-	G	Sat LEO O	LAAFB	-	-
1967-F05	2439640.59	1967 May 30 0206:00	Scout B	-	S152C	0.076	AFSSD	OF	S3P	G/OG	Sat SSO O	LAAFB	-	Burnthrough
1967-092	2439758.85	1967 Sep 25 0825:00	Scout A	-	S157C	0.050	SAMSO	OS	-	G	Sat LEO O	VCR	LAAFB	-
1967-U04	2439783.23	1967 Oct 19 1733:00	Scout B	-	S159C	0.152	LARCN	TS	-	LARC/Sims	Reentry Test	TN-D-5615	MOR R-730-67-01	-
1967-120	2439829.54	1967 Dec 5 0103:46	Scout B	-	S158C	0.099	SAMSO	OS	-	G	Sat LEO O	LAAFB	-	-
1968-012	2439917.66	1968 Mar 2 0355:01	Scout A	-	S162C	0.060	SAMSO	OS	-	G	Sat LEO O	LAAFB	VCR	-
1968-017	2439921.27	1968 Mar 5 1828:00	Scout B	-	S160C	0.119	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1968-S289	2439973.72	1968 Apr 27 0519	Scout X-5C	-	S164C	0.000	LARCN	TS	-	LARC/Hastings	Reentry Test	MOR R-711-68-06	-	-
1968-041	2439993.59	1968 May 17 0206:00	Scout B	-	S161C	0.074	SAMSO	OS	-	G/OG	Sat SSO O	VCR	LAAFB	-
1968-066	2440077.34	1968 Aug 8 2012:00	Scout B	-	S165C	0.086	SAMSO	OS	-	G	Sat LEO O	VCR	LAAFB	-
1968-U03	2440091.14	1968 Aug 22 1516	Scout B	-	S168C	0.152	LARCN	TS	-	LARC/Sims	Reentry Test	MOR R-730-68-02	-	-
1968-084	2440133.37	1968 Oct 3 2049:39	Scout B	-	S167C	0.085	SAMSO	OS	-	G/OG	Sat LEO O	VCR	LAAFB	-
1969-083	2440496.44	1969 Oct 1 2229:00	Scout B	-	S172C	0.085	SAMSO	OS	-	G/OG	Sat LEO O	VCR/ESRO-TR-9	-	-
1969-097	2440533.58	1969 Nov 8 0152	Scout B	-	S169C	0.078	SAMSO	OS	-	G/OG	Sat SSO O	VCR	-	-
1970-067	2440826.06	1970 Aug 27 1323:34	Scout A	-	S176C	0.064	SAMSO	OS	-	G	Sat LEO O	VCR	LAAFB	-
1970-S545	2440860.34	1970 Sep 30 2006:29	Scout B	-	S171C	0.000	LARCN	TS	-	LARC/Sims,Akey	Reentry Test	MOR R-730-70-03	-	-
1970-094	2440899.75	1970 Nov 9 0600:00	Scout B	-	S174C	0.201	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1970-107	2440932.95	1970 Dec 12 1053:50	Scout B	-	S175C	0.143	CRA	OS	-	G	Sat LEO O	LAAFB	-	-
1971-036	2441065.81	1971 Apr 24 0732:29	Scout B	-	S173C	0.180	CRA	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1971-S334	2441123.31	1971 Jun 20 1931:00	Scout B	-	S144CR	0.000	LARCN	TS	-	ARC/Seiff	Reentry Test	MOR R-711-71-01	Icarus18,525	-
1971-058	2441141.46	1971 Jul 8 2258:00	Scout B	-	S177C	0.119	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1971-071	2441180.28	1971 Aug 16 1839:00	Scout B-1	F	S180C	0.084	LARCN	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1971-U03	2441215.48	1971 Sep 20 2331:00	Scout B	-	S166C	0.064	LARCN	RS	-	MPE/Haerendel	Plasma Ba	MOR S-874-71-02	TM-X-72628	-
1971-096	2441270.74	1971 Nov 15 0552:00	Scout B	-	S163CR	0.052	CRA	OS	-	G	Sat HEO O	LAAFB	-	-
1971-109	2441297.37	1971 Dec 11 2047:01	Scout B-1	F	S183C	0.103	SAMSO	OS	-	G/OG	Sat LEO O	VCR	LAAFB	-
1972-069	2441563.24	1972 Sep 2 1750:30	Scout B-1	F	S182C	0.094	SAMSO	OS	-	G	Sat LEO O	VCR	LAAFB	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-081	2441985.53	1973 Oct 30 0037:02	Scout A-1	-	S178C	0.064	SAMSO	OS	-	G	Sat LEO O	VCR	LAAFB	-
1974-077	2442335.82	1974 Oct 15 0747:00	Scout B-1	-	S187C	0.135	CRA	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1976-047	2442920.82	1976 May 22 0742:16	Scout B-1	-	S179CR	0.072	SAMSO	OS	-	G	Sat SSO O	LAAFB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-061	2441543.13	1972 Aug 13 1510	Scout D-1	F	S184C	Explorer 46	Meteoroid Technology Sat	-	-	WI	LA3A	-	-	836	-	-
1972-091	2441637.43	1972 Nov 15 2213:46	Scout D-1	F	S170CR	Explorer 48	SAS B	-	-	SMLC	-	-	-	621	-	-
1972-092	2441643.51	1972 Nov 22 0017:01	Scout D-1	F	S185C	ESRO 4	ESRO 4	-	-	VS	SLC5	-	-	1171	-	-
1972-100	2441667.98	1972 Dec 16 1124:56	Scout D-1	F	S181C	Aeros	GRS-B	-	-	VS	SLC5	-	-	869	-	-
1974-009	2442096.92	1974 Feb 18 1005:28	Scout D-1	F	S190C	San Marco 4	San Marco C2	-	-	SMLC	-	-	-	930	-	-
1974-013	2442115.60	1974 Mar 9 0222:11	Scout D-1	F	S188C	Miranda	X-4	-	-	VS	SLC5	-	-	939	-	-
1974-040	2442202.46	1974 Jun 3 2309:11	Scout E-1	-	S191C	Explorer 52	Injun 6	-	-	VS	SLC5	-	-	126601	-	-
1974-055	2442244.99	1974 Jul 16 1151:01	Scout D-1	F	S186C	Aeros 2	Aeros B	-	-	VS	SLC5	-	-	871	-	-
1974-070	2442290.09	1974 Aug 30 1407:39	Scout D-1	-	S189C	ANS	ANS	-	-	VS	SLC5	-	-	1172	-	-
1975-037	2442540.45	1975 May 7 2245:01	Scout F-1	-	S194C	Explorer 53	SAS C	-	-	SMLC	-	-	-	510	-	-
1975-099	2442697.78	1975 Oct 12 0639:36	Scout D-1	-	S195C	TIP 2	TIP 2	-	-	VS	SLC5	-	-	829	-	-
1975-F06	2442752.65	1975 Dec 6 0335:01	Scout F-1	-	S196C	DAD A/B	DAD-A	-	-	VS	SLC5	-	-	100?	-	-
1976-U02	2442947.99	1976 Jun 18 1141	Scout D-1	-	S193C	GP-A	GP-A	-	-	WI	LA3A	-	-	10230	-	-
1976-089	2443023.38	1976 Sep 1 2114:02	Scout D-1	-	S197C	TIP 3	TIP 3	-	-	VS	SLC5	-	-	938	-	-
1977-106	2443444.70	1977 Oct 28 0452:04	Scout D-1	-	S200C	Transat	NNS O-11	-	-	VS	SLC5	-	-	1111	-	-
1978-041	2443624.93	1978 Apr 26 1020	Scout D-1	-	S201C	HCMM	AEM-A	-	-	VS	SLC5	-	-	651	-	-
1979-013	2443923.18	1979 Feb 18 1618	Scout D-1	-	S202C	SAGE	AEM-B	-	-	WI	LA3A	-	-	767	-	-
1979-047	2444027.48	1979 Jun 2 2326	Scout D-1	-	S198C	Ariel 6	Ariel 6	-	-	WI	LA3A	-	-	657	-	-
1979-094	2444177.09	1979 Oct 30 1416	Scout G-1	-	S203C	Magsat	AEM-C	-	-	VS	SLC5	-	-	564	-	-
1981-044	2444739.76	1981 May 15 0607:17	Scout G-1	-	S192C	Nova 1	Nova 1	-	-	VS	SLC5	-	-	1204	-	-
1983-063	2445513.15	1983 Jun 27 1537:09	Scout D-1	-	S205C	P83-1	NNS O-16	-	-	VS	SLC5	-	-	903	-	-
1984-110	2445985.57	1984 Oct 12 0143:34	Scout G-1	-	S208C	Nova 3	Nova 3	-	-	VS	SLC5	-	-	1243	-	-
1985-066	2446280.65	1985 Aug 3 0331:20	Scout G-1	-	S209C	SOOS 1	NNS O-24	-	-	VS	SLC5	-	-	1309	-	-
1985-114	2446412.61	1985 Dec 13 0235	Scout G-1	-	S207C	USA 13/14 (ITV 1/2)	ITV 1	-	-	WI	LA3A	-	-	774	-	-
1986-088	2446748.52	1986 Nov 14 0023	Scout G-1	-	S199C	P87-1	NNS O-17	-	-	VS	SLC5	-	-	1062	-	-
1987-080	2447055.31	1987 Sep 16 1922	Scout G-1	-	S204C	SOOS 2	NNS O-27	-	-	VS	SLC5	-	-	1274	-	-
1988-026	2447246.33	1988 Mar 25 1950	Scout G-1	-	S206C	San Marco 5	San Marco D/L	-	-	SMLC	-	-	-	621	-	-
1988-033	2447277.58	1988 Apr 26 0157	Scout G-1	-	S211C	SOOS 3	NNS O-23	-	-	VS	SLC5	-	-	1388	-	-
1988-052	2447328.79	1988 Jun 16 0654	Scout G-1	-	S213C	Nova 2	Nova 2	-	-	VS	SLC5	-	-	1209	-	-
1988-074	2447398.79	1988 Aug 25 0659	Scout G-1	-	S214C	SOOS 4	NNS O-25	-	-	VS	SLC5	-	-	1184	-	-
1990-043	2448021.24	1990 May 9 1750	Scout G-1	-	S212C	MACSAT 1/2	MACSAT 1	-	-	VS	SLC5	-	-	853	-	-
1991-045	2448437.08	1991 Jun 29 1400	Scout G-1	-	S216C	REX	REX	-	-	VS	SLC5	-	-	966	-	-
1992-038	2448807.10	1992 Jul 3 1419	Scout G-1	-	S215C	SAMPEX	SAMPEX	-	-	VS	SLC5	-	-	722	-	-
1992-078	2448948.07	1992 Nov 21 1345	Scout G-1	-	S210C	MSTI 1	MSTI-1	-	-	VS	SLC5	-	-	444	-	-
1993-041	2449164.48	1993 Jun 25 2330	Scout G-1	-	S217C	RADCAL	RADCAL	-	-	VS	SLC5	-	-	965	-	-
1994-028	2449481.62	1994 May 9 0247	Scout G-1	-	S218C	MSTI 2	MSTI-2	-	-	VS	SLC5	-	-	464	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-061	2441543.13	1972 Aug 13 1510	Scout D-1	F	S184C	0.206	LARCN	OS	-	G	Sat LEO A	LAAFB	-	-
1972-091	2441637.43	1972 Nov 15 2213:46	Scout D-1	F	S170CR	0.174	CRA	OS	-	G	Sat LEO O	LAAFB	-	-
1972-092	2441643.51	1972 Nov 22 0017:01	Scout D-1	F	S185C	0.115	AFSC	OS	-	G/OG	Sat LEO O	VCR	LAAFB	-
1972-100	2441667.98	1972 Dec 16 1124:56	Scout D-1	F	S181C	0.125	AFSC	OS	-	G/OG	Sat SSO O	VCR	LAAFB	-
1974-009	2442096.92	1974 Feb 18 1005:28	Scout D-1	F	S190C	0.176	CRA	OS	-	G/OG	Sat LEO O	LAAFB	-	-
1974-013	2442115.60	1974 Mar 9 0222:11	Scout D-1	F	S188C	0.093	AFSC	OS	-	G/OG	Sat SSO O	VCR	LAAFB	-
1974-040	2442202.46	1974 Jun 3 2309:11	Scout E-1	-	S191C	0.027	AFSC	OS	-	G	Sat HEO OO	VCR	LAAFB	-
1974-055	2442244.99	1974 Jul 16 1151:01	Scout D-1	F	S186C	0.125	AFSC	OS	-	G/OG	Sat SSO O	VCR	LAAFB	-
1974-070	2442290.09	1974 Aug 30 1407:39	Scout D-1	-	S189C	0.139	AFSC	OS	-	G/OG	Sat SSO O	VCR	LAAFB	-
1975-037	2442540.45	1975 May 7 2245:01	Scout F-1	-	S194C	0.189	CRA	OS	-	G	Sat LEO O	LAAFB	-	-
1975-099	2442697.78	1975 Oct 12 0639:36	Scout D-1	-	S195C	0.160	AFSC	OS	-	G	Sat LEO O	LAAFB	-	-
1975-F06	2442752.65	1975 Dec 6 0335:01	Scout F-1	-	S196C	0.138	AFSC	OF	S3G	G	Sat LEO O	NASAHIST	LAAFB	Control loss T+165s
1976-U02	2442947.99	1976 Jun 18 1141	Scout D-1	-	S193C	0.130	LARCN	RS	-	SAO/Vessot	Physics	WDCRF	-	-
1976-089	2443023.38	1976 Sep 1 2114:02	Scout D-1	-	S197C	0.166	AFSC	OS	-	G	Sat LEO O	LAAFB	-	-
1977-106	2443444.70	1977 Oct 28 0452:04	Scout D-1	-	S200C	0.092	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1978-041	2443624.93	1978 Apr 26 1020	Scout D-1	-	S201C	0.135	LARCN	OS	-	G	Sat SSO O	JG9602	-	-
1979-013	2443923.18	1979 Feb 18 1618	Scout D-1	-	S202C	0.149	LARCN	OS	-	G	Sat LEO O	SP-4024	-	-
1979-047	2444027.48	1979 Jun 2 2326	Scout D-1	-	S198C	0.154	LARCN	OS	-	G/OG	Sat LEO O	SP-4024	-	-
1979-094	2444177.09	1979 Oct 30 1416	Scout G-1	-	S203C	0.181	LARCN	OS	-	G	Sat SSO O	APL-TD1-3	-	-
1981-044	2444739.76	1981 May 15 0607:17	Scout G-1	-	S192C	0.165	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1983-063	2445513.15	1983 Jun 27 1537:09	Scout D-1	-	S205C	0.113	LARCN	OS	-	G	Sat LEO O	LAAFB	APLTD5-107	-
1984-110	2445985.57	1984 Oct 12 0143:34	Scout G-1	-	S208C	0.173	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1985-066	2446280.65	1985 Aug 3 0331:20	Scout G-1	-	S209C	0.130	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1985-114	2446412.61	1985 Dec 13 0235	Scout G-1	-	S207C	0.164	LARCN	OS	-	G	Sat LEO O	LAAFB	-	-
1986-088	2446748.52	1986 Nov 14 0023	Scout G-1	-	S199C	0.118	LARCN	OS	-	G	Sat LEO O	APL-TD8-3	-	-
1987-080	2447055.31	1987 Sep 16 1922	Scout G-1	-	S204C	0.130	LARCN	OS	-	G	Sat LEO O	JCM	-	-
1988-026	2447246.33	1988 Mar 25 1950	Scout G-1	-	S206C	0.237	CRA	OS	-	G/OG	Sat LEO O	TRWSL-24	-	-
1988-033	2447277.58	1988 Apr 26 0157	Scout G-1	-	S211C	0.130	LARCN	OS	-	G	Sat LEO O	JCM	-	-
1988-052	2447328.79	1988 Jun 16 0654	Scout G-1	-	S213C	0.170	LARCN	OS	-	G	Sat LEO O	JCM	-	-
1988-074	2447398.79	1988 Aug 25 0659	Scout G-1	-	S214C	0.130	LARCN	OS	-	G	Sat LEO O	LTV-PR	-	-
1990-043	2448021.24	1990 May 9 1750	Scout G-1	-	S212C	0.140	LARCN	OS	-	G	Sat LEO O	JCM	-	-
1991-045	2448437.08	1991 Jun 29 1400	Scout G-1	-	S216C	0.085	LARCN	OS	-	G	Sat LEO O	NASA-PR91-102	-	-
1992-038	2448807.10	1992 Jul 3 1419	Scout G-1	-	S215C	0.158	LARCN	OS	-	G	Sat LEO O	AWST920713-19	-	-
1992-078	2448948.07	1992 Nov 21 1345	Scout G-1	-	S210C	0.147	LARCN	OS	-	G	Sat SSO O	Wire	-	-
1993-041	2449164.48	1993 Jun 25 2330	Scout G-1	-	S217C	0.087	LARCN	OS	-	G	Sat LEO O	Wire	-	-
1994-028	2449481.62	1994 May 9 0247	Scout G-1	-	S218C	0.169	LARCN	OS	-	G	Sat SSO O	AWST940516-17	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-S76	2454424.50	2007 Nov 20	Ashura	-	R&D	-	-	-	-	SEMX	-	-	-	300?	-	-
2008-S61	2454781.50	2008 Nov 11?	Sejjil	-	R&D	Sejjil-1	-	-	-	SEMX	-	-	-	500?	-	-
2009-S22	2454971.50	2009 May 20	Sejjil-2	-	R&D	Sejjil-2	-	-	-	SEMX	-	-	-	800	-	-
2009-S49	2455102.50	2009 Sep 28	Sejjil-2	-	R&D	Sejjil-2	-	-	-	SEMX	-	-	-	800?	-	-
2009-S68	2455181.50	2009 Dec 16	Sejjil-2	-	R&D	Sejjil-2	-	-	-	SEMX	-	-	-	800?	-	-
2010-S82	2455469.50	2010 Oct	Sejjil-2	-	R&D	Sejjil-2	-	-	-	SEMX	-	-	-	800?	-	-
2011-S20	2455592.50	2011 Feb	Sejjil-2	-	R&D	Sejjil-2	-	-	-	SEMX	-	-	-	800?	-	-
2021-S02	2459230.50	2021 Jan 16	Sejjil-2	-	-	Sejjil-2	-	-	-	GARM	-	-	-	800?	1800?	Indian O.
2021-S03	2459230.50	2021 Jan 16	Sejjil-2	-	-	Sejjil-2	-	-	-	GARM	-	-	-	800?	1800?	Indian O.
2021-S04	2459230.50	2021 Jan 16	Sejjil-2	-	-	Sejjil-2	-	-	-	GARM	-	-	-	800?	1800?	Indian O.

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-S76	2454424.50	2007 Nov 20	Ashura	-	R&D	0.000	IR	MF	U	-	Test	Wire	-	-
2008-S61	2454781.50	2008 Nov 11?	Sejjil	-	R&D	0.000	IR	MF	U	-	Test	Wire	-	-
2009-S22	2454971.50	2009 May 20	Sejjil-2	-	R&D	0.000	IR	MS	-	-	Test	Wire	-	-
2009-S49	2455102.50	2009 Sep 28	Sejjil-2	-	R&D	0.000	IR	MS	-	-	Test	Wire	-	-
2009-S68	2455181.50	2009 Dec 16	Sejjil-2	-	R&D	0.000	IR	MS	-	-	Test	Wire	-	-
2010-S82	2455469.50	2010 Oct	Sejjil-2	-	R&D	0.000	IR	MS	-	-	Test	AWST110613-25	-	-
2011-S20	2455592.50	2011 Feb	Sejjil-2	-	R&D	0.000	IR	MS	-	-	Test	AWST110613-25	-	-
2021-S02	2459230.50	2021 Jan 16	Sejjil-2	-	-	0.000	IR	MS	-	-	Test	tiwtter/inbarspace	-	-
2021-S03	2459230.50	2021 Jan 16	Sejjil-2	-	-	0.000	IR	MS	-	-	Test	tiwtter/inbarspace	-	-
2021-S04	2459230.50	2021 Jan 16	Sejjil-2	-	-	0.000	IR	MS	-	-	Test	tiwtter/inbarspace	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A199	2437987.50	1962 Nov 19	Seliger 1	-	-	-	-	-	-	CUX	-	-	-	40	-	-
1962-A200	2437987.50	1962 Nov 19	Seliger 1	-	-	-	-	-	-	CUX	-	-	-	40	-	-
1962-A201	2437987.50	1962 Nov 19	Seliger 1	-	-	-	-	-	-	CUX	-	-	-	40	-	-
1963-M15	2438067.50	1963 Feb 7	Seliger 1	-	-	-	-	-	-	CUX	-	-	-	52	-	-
1963-M16	2438067.50	1963 Feb 7	Seliger 2	-	-	-	-	-	-	CUX	-	-	-	80	-	-
1963-M17	2438067.50	1963 Feb 7	Seliger 2	?	-	-	-	-	-	CUX	-	-	-	80?	-	-
1963-M27	2438151.50	1963 May 2	Seliger 1	-	-	-	-	-	-	CUX	-	-	-	50	-	-
1963-S187	2438152.13	1963 May 2 1503	Seliger 3	-	-	-	-	-	-	CUX	-	-	-	120	-	-
1963-A180	2438368.50	1963 Dec 5	Seliger 1	?	-	-	-	-	-	CUX	-	-	-	30	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A199	2437987.50	1962 Nov 19	Seliger 1	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1962-A200	2437987.50	1962 Nov 19	Seliger 1	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1962-A201	2437987.50	1962 Nov 19	Seliger 1	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-M15	2438067.50	1963 Feb 7	Seliger 1	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-M16	2438067.50	1963 Feb 7	Seliger 2	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-M17	2438067.50	1963 Feb 7	Seliger 2	?	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-M27	2438151.50	1963 May 2	Seliger 1	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-S187	2438152.13	1963 May 2 1503	Seliger 3	-	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-
1963-A180	2438368.50	1963 Dec 5	Seliger 1	?	-	0.000	DRG	SS	-	DRG/Seliger	Test	astronautix.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-M01	2434419.50	1953 Feb 11	RV-A-10	-	1	Hermes A2 engine	-	-	-	CC	-	-	-	50?	-	-
1953-M02	2434440.50	1953 Mar 4	RV-A-10	-	2	[Impact Vero Beach]	-	-	-	CC	-	-	-	20?	-	-
1953-M03	2434461.50	1953 Mar 25	RV-A-10	-	3	-	-	-	-	CC	-	-	-	50?	-	-
1953-M04	2434461.50	1953 Mar 25	RV-A-10	-	4	-	-	-	-	CC	-	-	-	50?	-	-
1955-A468	2435346.29	1955 Aug 26 1903	X-17	-	D-1	-	-	-	-	CC	LC3	-	-	3	-	-
1955-A473	2435374.30	1955 Sep 23 1910	X-17	-	D-2	-	-	-	-	CC	LC3	-	-	5	-	-
1955-S105	2435443.37	1955 Dec 1 2056	X-17	-	D-3	-	-	-	-	CC	LC3	-	-	40	-	-
1956-M01	2435491.50	1956 Jan 19	Sergeant	-	1	JPL-329 motor	-	-	-	WS	ALA1	-	-	50?	-	-
1956-S07	2435493.25	1956 Jan 20 1806	X-17	-	D-4	-	-	-	-	CC	LC3	-	-	132	-	-
1956-M02	2435531.50	1956 Feb 28	Sergeant	-	2	JPL-329	-	-	-	WS	ALA1	-	-	50?	-	-
1956-S16	2435538.39	1956 Mar 5 2120	X-17	-	D-5	-	-	-	-	CC	LC3	-	-	116	237	-
1956-S24	2435580.94	1956 Apr 17 1030	X-17	-	R-1	-	-	-	-	CC	LC3	-	-	100?	-	-
1956-M03	2435587.50	1956 Apr 24	Sergeant	-	3	JPL-329	-	-	-	WS	ALA1	-	-	50?	-	-
1956-S45	2435651.06	1956 Jun 26 1324	X-17	-	D-6A	-	-	-	-	CC	LC3	-	-	140	163	-
1956-S52	2435671.81	1956 Jul 17 0728	X-17	-	R-2	4203-3	-	-	-	CC	LC3	-	-	142	-	-
1956-A77	2435682.59	1956 Jul 28 0212	X-17	-	R-3	4203-4	-	-	-	CC	LC3	-	-	145	155	-
1956-A79	2435703.85	1956 Aug 18 0831	X-17	-	R-4	4203-2	-	-	-	CC	LC3	-	-	1?	-	-
1956-S77	2435709.19	1956 Aug 23 1632	X-17	-	R-5	4203-5	-	-	-	CC	LC3	-	-	142	146	-
1956-S78	2435714.04	1956 Aug 28 1302	X-17	-	R-6	4203-6	-	-	-	CC	LC3	-	-	100?	-	-
1956-S79	2435725.17	1956 Sep 8 1609	X-17	-	R-7	4203-7	-	-	-	CC	LC3	-	-	394	1204	-
1956-S82	2435748.39	1956 Oct 1 2121	X-17	-	R-8	4203-8	-	-	-	CC	LC3	-	-	145	139	-
1956-S83	2435752.11	1956 Oct 5 1432	X-17	-	R-9	4203-9	-	-	-	CC	LC3	-	-	117	241	-
1956-S84	2435760.24	1956 Oct 13 1746	X-17	-	R-10	4203-10	-	-	-	CC	LC3	-	-	102	252	-
1956-S85	2435765.08	1956 Oct 18 1349	X-17	-	R-11	4203-11	-	-	-	CC	LC3	-	-	155	128	-
1956-S89	2435772.23	1956 Oct 25 1729	X-17	-	R-12	4203-12	-	-	-	CC	LC3	-	-	124	239	-
1956-M07	2435780.50	1956 Nov 3	Sergeant	-	4	JPL-477	-	-	-	WS	ALA1	-	-	50?	-	-
1956-S96	2435783.05	1956 Nov 5 1309	X-17	-	R-13	4203-13	-	-	-	CC	LC3	-	-	118	241	-
1956-S101	2435794.11	1956 Nov 16 1438	X-17	-	R-14	4203-14	-	-	-	CC	LC3	-	-	107	267	-
1956-S104	2435801.08	1956 Nov 23 1357	X-17	-	R-15	4203-15	-	-	-	CC	LC3	-	-	143	-	-
1956-S106	2435811.15	1956 Dec 3 1536	X-17	-	R-16	4203-16	-	-	-	CC	LC3	-	-	125	213	-
1956-S108	2435819.03	1956 Dec 11 1237	X-17	-	R-17	4203-17	-	-	-	CC	LC3	-	-	144	124	-
1957-S06	2435847.25	1957 Jan 8 1759	X-17	-	R-18	4203-18	-	-	-	CC	LC3	-	-	140	157	-
1957-S07	2435854.19	1957 Jan 15 1630	X-17	-	R-19	4203-19	-	-	-	CC	LC3	-	-	146	107	-
1957-A07	2435868.19	1957 Jan 29 1630	X-17	-	R-20	4203-20	-	-	-	CC	LC3	-	-	2?	-	-
1957-M01	2435869.50	1957 Jan 31	Sergeant	-	5	-	-	-	-	WS	ALA1	-	-	50?	-	-
1957-S13	2435877.04	1957 Feb 7 1300	X-17	-	R-21	4203-21	-	-	-	CC	LC3	-	-	107	259	-
1957-S14	2435884.09	1957 Feb 14 1412	X-17	-	R-22	4203-22	-	-	-	CC	LC3	-	-	141	176	-
1957-S15	2435899.00	1957 Mar 1 1158	X-17	-	R-23	4203-23	-	-	-	CC	LC3	-	-	151	98	-
1957-S16	2435909.05	1957 Mar 11 1307	X-17	-	R-24	4203-A3	-	-	-	CC	LC3	-	-	134	157	-
1957-S18	2435919.08	1957 Mar 21 1354	X-17	-	R-25	4203-A4	-	-	-	CC	LC3	-	-	103	250	-
1957-M06	2435944.50	1957 Apr 16	Sergeant	-	6	-	-	-	-	WS	ALA1	-	-	50?	-	-
1957-S26	2435941.50	1957 Apr 13	Polaris FTV-5	-	VI-1	-	-	-	-	CC	LC3	-	-	10?	-	-
1957-S61	2436038.50	1957 Jul 19	Polaris FTV-3	-	3-204-1	0.4-scale RV	-	-	-	CC	LC3	-	-	130	-	-
1957-S80	2436059.50	1957 Aug 9	Polaris FTV-3	-	3-204-2	0.4-scale RV	-	-	-	CC	LC3	-	-	116	-	-
1957-S90	2436067.34	1957 Aug 16 2014	Polaris FTV-5	-	5-204-1	-	-	-	-	CC	LC3	-	-	169	-	-
1957-S62	2436073.13	1957 Aug 22 1503	X-17	-	R-26	-	-	-	-	CC	LC3	-	-	114	241	-
1957-S106	2436091.07	1957 Sep 9 1345	Polaris FTV-1	-	1-204-6 Polaris jg.	Jetavator	-	-	-	CC	LC3?	-	-	20?	-	-
1957-M14	2436114.50	1957 Oct 3	Sergeant	-	8	JPL-477	-	-	-	WS	ALA1	-	-	50?	-	-
1957-S140	2436134.16	1957 Oct 22 1550	Polaris FTV-1	-	1-204-7	Fin guidance	-	-	-	CC	LC3	-	-	20?	-	-
1957-S143	2436136.10	1957 Oct 24 1430	Polaris FTV-3	-	3-204-3	-	-	-	-	CC	LC3	-	-	100?	-	-
1957-S163	2436150.50	1957 Nov 8	Polaris FTV-3	-	3-204-4	-	-	-	-	CC	LC3	-	-	100?	-	-
1957-S170	2436157.50	1957 Nov 15	Polaris FTV-1	-	1-204-8	Jetavator	-	-	-	CC	LC3	-	-	20?	-	-
1957-M15	2436168.50	1957 Nov 26	Sergeant	-	7	JPL-477	-	-	-	WS	ALA1	-	-	50?	-	-
1957-S176	2436183.20	1957 Dec 10 1650	Polaris FTV-1	-	1-204-9	Jetavator	-	-	-	CC	LC3	-	-	20?	-	-
1958-S10	2436221.04	1958 Jan 17 1259	Polaris FTV-1	-	1-204-10	Jetavator	-	-	-	CC	LC3	-	-	20?	-	-
1958-M01	2436224.50	1958 Jan 21	Sergeant	-	9	-	-	-	-	WS	ALA1	-	-	50?	-	-
1958-M02	2436276.50	1958 Mar 14	Sergeant	-	10	-	-	-	-	WS	ALA2	-	-	50?	-	-
1958-S56	2436312.05	1958 Apr 18 1305	Polaris FTV-1	-	1-204-11	Jetavator	-	-	-	CC	LC25A	-	-	20?	-	-
1958-M04	2436324.50	1958 May 1	Sergeant	-	11	-	-	-	-	WS	ALA2	-	-	50?	-	-
1958-S62	2436332.15	1958 May 8 1536	Polaris FTV-1	-	1-204-12	Jetavator	-	-	-	CC	LC25A	-	-	20?	-	-
1958-M05	2436332.50	1958 May 9	Sergeant	-	12	-	-	-	-	WS	ALA2	-	-	50?	-	-
1958-A46	2436349.50	1958 May 26	Bold Orion	1	Missile 1	-	-	-	B-47E-220	EGL?	RW12/30?	AMR	LP1	8	-	-
1958-S82	2436361.04	1958 Jun 6 1300	Polaris FTV-1	-	1-204-13	Jetavator	-	-	-	CC	LC25A	-	-	20?	-	-
1958-S87	2436379.04	1958 Jun 24 1300	Polaris FTV-1	-	1-204-14	Jetavator	-	-	-	CC	LC25A	-	-	20?	-	-
1958-A61	2436381.50	1958 Jun 27	Bold Orion	1	Missile 2	-	-	-	B-47E-220	EGL?	RW12/30?	AMR	LP1	12	-	-
1958-A62	2436381.50	1958 Jun 27	Sergeant 5-stage	-	-	Mercury-style RV	-	-	-	WI	-	-	-	34	-	-
1958-M06	2436384.50	1958 Jun 30	Sergeant	-	13	Off-pad test	-	-	-	WS	ALA2	-	-	50?	-	-
1958-S90	2436386.50	1958 Jul 2	X-17	-	Winder 1	Argus test	-	-	AVM1	WTR	SCL LP1	-	-	560	-	-
1958-A64	2436393.50	1958 Jul 9?	X-17	-	Winder 2	Argus test	-	-	AVM1	WTR	SCL LP1	-	-	10?	-	-
1958-A65	2436401.50	1958 Jul 17?	X-17	-	Winder 3	Argus test	-	-	AVM1	WTR	SCL LP1	-	-	0	-	-
1958-S106	2436402.50	1958 Jul 18	Bold Orion	1	Missile 3?	-	-	-	B-47E-220	EGL?	RW12/30?	AMR	LP1	100?	-	-
1958-S108	2436408.50	1958 Jul 24	X-17	-	Winder 4	Argus test	-	-	AVM1	WTR	SCL LP1	-	-	672	-	-
1958-M07	2436442.50	1958 Aug 27	Sergeant	-	16	-	-	-	-	WS	-	-	-	50?	-	-
1958-M08	2436442.50	1958 Aug 27	Sergeant	-	15	-	-	-	-	WS	-	-	-	50?	-	-
1958-S168	2436442.60	1958 Aug 27 0220	X-17	-	-	Argus I	-	-	AVM1	USN58B	LP1	-	-	160	-	-
1958-M09	2436443.50	1958 Aug 28	Sergeant	-	14	-	-	-	-	WS	-	-	-	50?	-	-
1958-S178	2436445.63	1958 Aug 30 0310	X-17	-	-	Argus II	-	-	AVM1	USN58B	LP2	-	-	293	-	-
1958-A108	2436451.50	1958 Sep 5	High Virgo WS199C	-	1	High Virgo	-	-	B-58-660	EGL	RW12/30	AMR	LP1	13	-	-
1958-S194	2436453.42	1958 Sep 6 2205	X-17	-	-	Argus III	-	-	AVM1	USN58B	LP3	-	-	750	-	-
1958-S206	2436471.50	1958 Sep 25	Bold Orion	1	-	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	100?	-	-
1958-S218	2436486.50	1958 Oct 10	Bold Orion	1	-	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	100?	-	-
1958-M13	2436497.50	1958 Oct 21	Sergeant	-	18	-	-	-	-	WS	-	-	-	50?	-	-
1958-M14	2436499.50	1958 Oct 23	Sergeant	-	17	-	-	-	-	WS	-	-	-	50?	-	-
1958-S258	2436524.50	1958 Nov 17	Bold Orion	1	Missile 5	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	100?	419	-
1958-A147	2436527.50	1958 Nov 20	Sergeant 5-stage	-	-	Mercury-style RV	-	-	-	WI	-	-	-	30?	-	-
1958-S280	2436545.50	1958 Dec 8	Bold Orion	2	Missile 6?	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	11	0	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-M26	2436548.50	1958 Dec 11	Sergeant	-	19	JPL-477	-	-	-	WS	-	-	-	50?	-	-
1958-S287	2436553.50	1958 Dec 16	Bold Orion	2	Missile 7	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	200?	1722	-
1958-M29	2436556.50	1958 Dec 19	High Virgo WS199C	-	2	High Virgo	-	-	B-58-660	EGL	RW12/30	AMR	LP1	76	343	-
1959-A30	2436616.38	1959 Feb 16 2103	Draco	-	S/N 1	Alpha Draco	-	-	-	CC	LC10	-	-	30	-	-
1959-A47	2436643.50	1959 Mar 16	Draco	-	S/N 2	Alpha Draco	-	-	-	CC	LC10	-	-	30?	-	-
1959-M04	2436650.50	1959 Mar 23	Sergeant	-	21	JPL-500	-	-	-	WS	-	-	-	50?	-	-
1959-M05	2436652.50	1959 Mar 25	Sergeant	-	22	-	-	-	-	WS	-	-	-	50?	-	-
1959-S42	2436662.50	1959 Apr 4	Bold Orion	2	-	-	-	-	B-47E-220	EGL?	RW12/30?	AMR	LP1	200?	-	-
1959-A69	2436686.29	1959 Apr 27 1855	Draco	-	S/N 3	Alpha Draco	-	-	-	CC	LC10	-	-	19?	-	-
1959-M17	2436723.50	1959 Jun 4	High Virgo WS199C	-	3	High Virgo	-	-	B-58-660	EGL	RW12/30	AMR	LP1	51	-	-
1959-S83	2436727.50	1959 Jun 8	Bold Orion	1	-	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	100?	-	-
1959-S92	2436739.15	1959 Jun 19 1530	Bold Orion	1	-	-	-	-	B-47E-220	EGL	RW12/30	AMR	LP1	100?	-	-
1959-M24	2436805.50	1959 Aug 25	Sergeant	-	23	-	-	-	-	WS	-	-	-	50?	-	-
1959-S426	2436833.92	1959 Sep 22 1010?	High Virgo WS199C	-	4	King Lofus IV	Discoverer 5 intercept	-	B-58-660	EGL	RW12/30	EGL	HV4	350?	-	-
1959-S209	2436854.88	1959 Oct 13 0900	Bold Orion	2	-	-	-	-	B-47E-220	EGL?	RW12/30?	AMR	LP1	200?	-	-
1959-M32	2436862.50	1959 Oct 21	Sergeant	-	26	-	-	-	-	WS	-	-	-	50?	-	-
1959-M33	2436867.50	1959 Oct 26	Sergeant	-	27	-	-	-	-	WS	-	-	-	50?	-	-
1959-S226	2436870.44	1959 Oct 28 2240	Shotput	-	1	E60 Echo Test	-	-	-	WI	-	-	-	400	-	-
1959-M34	2436870.50	1959 Oct 29	Sergeant	-	28	-	-	-	-	WS	-	-	-	50?	-	-
1960-A14	2436941.50	1960 Jan 8	Sergeant 5-stage	-	-	Mercury model	-	-	-	WI	-	-	-	34	-	-
1960-S13	2436950.44	1960 Jan 16 2235	Shotput	-	2	E60 Echo Test	-	-	-	WI	-	-	-	413	-	-
1960-S41	2436992.47	1960 Feb 27 2320	Shotput	-	3	E60 Echo Test	-	-	-	WI	-	-	-	362	-	-
1960-A74	2437017.50	1960 Mar 24	Sergeant 5-stage	-	-	Mercury model	-	-	-	WI	-	-	-	34	-	-
1960-S70	2437026.50	1960 Apr 1 2355	Shotput	-	4	E60 Echo Test	-	-	-	WI	-	-	-	320?	-	-
1960-M09	2437073.50	1960 May 19	Sergeant	-	30	JPL-500	-	-	-	WS	-	-	-	50?	-	-
1960-M10	2437074.50	1960 May 20	Sergeant	-	31	JPL-500	-	-	-	WS	-	-	-	50?	-	-
1960-M11	2437077.50	1960 May 23	Sergeant	-	33	-	-	-	-	WS	-	-	-	50?	-	-
1960-M12	2437085.50	1960 May 31	Sergeant	-	32	-	-	-	-	WS	-	-	-	50?	-	-
1960-S115	2437085.50	1960 May 31	Shotput	-	5	E60 Echo Test	-	-	-	WI	-	-	-	400	-	-
1960-M17	2437141.50	1960 Jul 26	Sergeant	-	36	-	-	-	-	WS	-	-	-	50?	-	-
1960-M22	2437158.50	1960 Aug 12	Sergeant	-	35	-	-	-	-	WS	-	-	-	50?	-	-
1960-M24	2437192.50	1960 Sep 15	Sergeant	-	34	-	-	-	-	WS	-	-	-	50?	-	-
1960-S275	2437197.15	1960 Sep 19 1535	Journeyman	-	NASA 11.01GE	NERV I	-	-	-	PA	LC-A	-	-	1884	-	-
1960-M25	2437198.50	1960 Sep 21	Sergeant	-	37	-	-	-	-	WS	-	-	-	50?	-	-
1960-U02	2437199.04	1960 Sep 21 1301:53	Blue Scout Jr	-	D-1	HETS	HETS	-	-	CC	LC18A	-	-	26700	-	-
1960-M26	2437200.50	1960 Sep 23	Sergeant	-	39	-	-	-	-	WS	-	-	-	50?	-	-
1960-S352	2437247.05	1960 Nov 8 1318	Blue Scout Jr	-	D-2	HETS	-	-	-	CC	LC18A	-	-	200?	-	-
1960-M31	2437269.50	1960 Dec 1	Sergeant	-	40	-	-	-	-	WS	-	-	-	50?	-	-
1960-M32	2437280.50	1960 Dec 12	Sergeant	-	42	-	-	-	-	WS	-	-	-	50?	-	-
1960-M33	2437281.50	1960 Dec 13	Sergeant	-	41	-	-	-	-	WS	-	-	-	50?	-	-
1961-M01	2437309.50	1961 Jan 10	Sergeant	-	43	-	-	-	-	WS	-	-	-	50?	-	-
1961-M02	2437325.50	1961 Jan 26	Sergeant	-	45	-	-	-	-	WS	-	-	-	50?	-	-
1961-S75	2437367.25	1961 Mar 8 1753	Astrobee 1500	?	AE16.305	-	-	-	-	EGL	-	-	-	431	-	-
1961-M03	2437368.50	1961 Mar 10	Sergeant	-	49	-	-	-	-	WS	-	-	-	50?	-	-
1961-M11	2437423.50	1961 May 4	Sergeant	-	50	-	-	-	-	WS	-	-	-	50?	-	-
1961-M12	2437434.50	1961 May 15	Sergeant	-	54	-	-	-	-	WS	-	-	-	50?	-	-
1961-M13	2437435.50	1961 May 16	Sergeant	-	53	-	-	-	-	WS	-	-	-	50?	-	-
1961-M14	2437436.50	1961 May 17	Sergeant	-	51	-	-	-	-	WS	-	-	-	50?	-	-
1961-A183	2437513.35	1961 Aug 1 2018	Astrobee 1500	-	AA16.304	-	-	-	-	PA	LC-A	-	-	10?	-	-
1961-U01	2437529.10	1961 Aug 17 1429	Blue Scout Jr	-	O-1	HETS	HETS	-	-	CC	LC18A	-	-	225000	-	-
1961-S260	2437542.02	1961 Aug 30 1234	RAM A	-	RAM A-1	RAM A-1	-	-	-	WI	-	-	-	1280?	-	-
1961-M21	2437562.50	1961 Sep 20	Sergeant	-	55	-	-	-	-	WS	-	-	-	50?	-	-
1961-M22	2437568.50	1961 Sep 26	Sergeant	-	56	-	-	-	-	WS	-	-	-	50?	-	-
1961-M23	2437570.50	1961 Sep 28	Sergeant	-	58	-	-	-	-	WS	-	-	-	50?	-	-
1961-M24	2437570.50	1961 Sep 28	Sergeant	-	59	-	-	-	-	WS	-	-	-	50?	-	-
1961-S378	2437619.07	1961 Nov 15 1343	Journeyman	-	NASA 11.04GB	BIOS I	-	-	-	PA	LC-A	-	-	1057	-	-
1961-S383	2437622.07	1961 Nov 18 1342	Journeyman	-	NASA 11.05GB	BIOS II	-	-	-	PA	LC-A	-	-	1057	-	-
1961-U04	2437637.67	1961 Dec 4 0400:16	Blue Scout Jr	-	O-2	-	HETS	-	-	PA	LC-A	-	-	44400	-	-
1961-S415	2437641.84	1961 Dec 8 0815	Astrobee 1500	-	-	Project CAMBRIDGE	-	-	-	PA	LC-A	-	-	2190	-	-
1961-S425	2437647.80	1961 Dec 14 0709:48	Trailblazer 2	-	TB IIa	Trailblazer IIa	-	-	-	WI	-	-	-	157	-	-
1962-S46	2437717.02	1962 Feb 21 1230	RAM A	-	RAM A-2	RAM A-2	-	-	-	WI	-	-	-	1000?	-	-
1962-U02	2437790.74	1962 May 6 0541:00	Trailblazer 2	M	TB IIb	Meteor 1	Meteor 1 pellet	-	-	WI	-	-	-	280	-	-
1962-S152	2437816.21	1962 May 31 1708:44	Blue Scout Jr SLV-1C	-	102	ERCS/279L 1	-	-	-	PA	LC-A	-	-	830	-	-
1962-M12	2437845.50	1962 Jul	Sergeant	-	-	Eng-Service Test	-	-	-	WS	-	-	-	50?	-	-
1962-M13	2437845.50	1962 Jul	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M14	2437865.50	1962 Jul 20	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-S584	2437854.87	1962 Jul 9 0851:39	Swik A	-	Project 6.7 SWIK	STARFISH Diag P-4	-	-	-	JI	Pad 25	-	-	820?	-	-
1962-S234	2437854.87	1962 Jul 9 0852:09	Journeyman	-	-	STARFISH Diag	-	-	-	PA	LC-A	-	-	100?	-	-
1962-A106	2437854.87	1962 Jul 9 0852:19	Astrobee 1500	-	-	STARFISH DIag	-	-	-	PA	LC-B	-	-	1?	-	-
1962-S585	2437854.87	1962 Jul 9 0852:27	Swik A	-	Project 6.7 SWIK	STARFISH Diag P-2	-	-	-	JI	Pad 1	-	-	1100?	-	-
1962-S586	2437854.87	1962 Jul 9 0855:43	Swik A	-	Project 6.7 SWIK	STARFISH Diag P-7	-	-	-	JI	Pad 2	-	-	1200?	-	-
1962-S587	2437854.87	1962 Jul 9 0857:29	Swik A	-	Project 6.7 SWIK	STARFISH Diag P-6	-	-	-	JI	Pad 24	-	-	1030?	-	-
1962-S588	2437854.87	1962 Jul 9 0857:49	Swik A	-	Project 6.7 SWIK	STARFISH Diag P-3	-	-	-	JI	Pad 23	-	-	900?	-	-
1962-S257	2437870.23	1962 Jul 24 1729:12	Blue Scout Jr SLV-1C	-	101	ERCS/279L 2	-	-	-	PA	LC-A	-	-	1000?	-	-
1962-M19	2437907.50	1962 Sep	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M20	2437907.50	1962 Sep	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M21	2437907.50	1962 Sep	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-A156	2437928.50	1962 Sep 21	RAM B	-	RAM B-1	RAM B-1	-	-	-	WI	-	-	-	20	-	-
1962-S639	2437929.50	1962 Sep 22	Strypi	-	Cert Round	-	-	-	-	JI	-	-	-	100?	-	-
1962-S343	2437929.78	1962 Sep 22 0645	Journeyman	-	NASA 11.02UR	-	-	-	-	WI	-	-	-	1691	-	-
1962-S640	2437937.50	1962 Sep 30	Strypi	-	Test Round	-	-	-	-	JI	-	-	-	100?	-	-
1962-S641	2437937.50	1962 Oct	Strypi	-	Test Round	-	-	-	-	JI	-	-	-	100?	-	-
1962-M24	2437937.50	1962 Oct	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M25	2437937.50	1962 Oct	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-S406	2437957.85	1962 Oct 20 0830	Strypi	-	-	CHECKMATE	-	-	-	JI	-	-	-	147	-	-
1962-S589	2437957.85	1962 Oct 20 0831?	Swik A	-	Project 6.7 SWIK	CHECKMATE Diag P-1	-	-	-	JI	-	-	-	300?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-S590	2437957.86	1962 Oct 20 0832?	Swik A	-	Project 6.7 SWIK	CHECKMATE Diag P-5	-	-	-	JI	-	-	-	300?	-	-
1962-S677	2437959.50	1962 Oct 22	Trailblazer 2	-	TB IIc	Trailblazer IIc	-	-	-	WI	-	-	-	150?	-	-
1962-M27	2437961.50	1962 Oct 24	Sergeant	-	-	Tactical Field Fir.	-	-	-	WS	-	-	-	50?	-	-
1962-M30	2437970.50	1962 Nov 2	Sergeant	-	-	Tactical Field Fir.	-	-	-	WS	-	-	-	50?	-	-
1962-S485	2437990.26	1962 Nov 21 1820:35	Blue Scout Jr SLV-1C	-	201	ERCS/279L 3	-	-	-	PA	LC-A	-	-	1000?	-	-
1962-M35	2437998.50	1962 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M36	2437998.50	1962 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-M37	2437998.50	1962 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1962-A208	2437998.50	1962 Dec	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1962-S573	2438017.50	1962 Dec 19	Blue Scout Jr SLV-1B(m)	-	21-1	Ion Test A (SWC-16)	-	-	-	PA	LC-A	-	-	2000	-	-
1963-M02	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M03	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M04	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M05	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M06	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M07	2438029.50	1963 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-A08	2438036.50	1963 Jan 7	ARPAT	-	-	HS201	-	-	-	WS	-	-	-	30?	-	-
1963-M10	2438060.50	1963 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M11	2438060.50	1963 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M12	2438060.50	1963 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-S32	2438062.79	1963 Feb 2 0656:29	Blue Scout Jr SLV-1C	-	202	ERCS 279L	-	-	-	PA	LC-A	-	-	1000?	-	-
1963-M09	2438065.50	1963 Feb 5	Sergeant	-	C-11	-	-	-	-	WS	-	-	-	50?	-	-
1963-S43	2438072.57	1963 Feb 12 0147	Journeyman	-	NASA 11.06UE	Electron Spectrometer	-	-	-	PA	LC-A	-	-	1675	-	-
1963-M14	2438079.50	1963 Feb 19	Sergeant	-	-	-	-	-	-	WS	ALA4	-	-	50?	-	-
1963-M13	2438079.50	1963 Feb 19	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M18	2438088.50	1963 Mar	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-S96	2438102.54	1963 Mar 14 0101:49	Blue Scout Jr SLV-1C	-	203	ERCS 279L	-	-	-	PA	LC-A	-	-	1000?	-	-
1963-M19	2438106.50	1963 Mar 18	Sergeant	-	-	Deployability test	-	-	-	SNI	-	-	-	50?	-	-
1963-M20	2438108.50	1963 Mar 20	Sergeant	-	-	Deployability test	-	-	-	SNI	-	-	-	50?	-	-
1963-M21	2438109.50	1963 Mar 21	Sergeant	-	-	Deployability test	-	-	-	SNI	-	-	-	50?	-	-
1963-S08	2438111.50	1963 Mar 23	Trailblazer 2	-	TB IId	Trailblazer IId	-	-	-	WI	-	-	-	300	-	-
1963-M24	2438127.98	1963 Apr 8 1126	Astrobee 1500	-	NASA 16.01GT	-	-	-	-	WI	LA2A	-	-	72	-	-
1963-S165	2438140.59	1963 Apr 21 0216	Shotput	-	6	San Marco	-	-	-	WI	-	-	-	426	-	-
1963-M56	2438163.23	1963 May 13 1725	Sergeant	-	-	Off Range Test	-	-	-	DAT	-	-	-	50?	-	-
1963-M57	2438164.50	1963 May 15	Sergeant	-	-	Off Range Test	-	-	-	DAT	-	-	-	50?	-	-
1963-M26	2438165.50	1963 May 16	Sergeant	-	-	Off Range Test	-	-	-	DAT	-	-	-	50?	-	-
1963-S207	2438167.46	1963 May 17 2300:18	Blue Scout Jr SLV-1C	-	301	ERCS 279L	-	-	-	PA	LC-A	-	-	1000?	-	-
1963-S682	2438173.50	1963 May 24	Trailblazer 2	-	TB IIe	Trailblazer IIe	-	-	-	WI	-	-	-	150?	-	-
1963-S241	2438178.29	1963 May 28 1859:09	RAM B	-	RAM B-2	RAM B-2	-	-	-	WI	-	-	-	88	-	-
1963-A84	2438180.50	1963 Jun	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-A85	2438180.50	1963 Jun	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-M30	2438185.50	1963 Jun 5	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-M31	2438205.50	1963 Jun 25	Sergeant	-	-	-	350 Btn	-	-	WS	-	-	-	50?	-	-
1963-M32	2438206.50	1963 Jun 26	Sergeant	-	-	-	350 Btn	-	-	WS	-	-	-	50?	-	-
1963-A97	2438210.50	1963 Jul	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-A98	2438210.50	1963 Jul	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-A99	2438210.50	1963 Jul	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-M45	2438236.50	1963 Jul 26	Sergeant	-	-	-	5thBtn 73rdArt.	-	-	WS	-	-	-	50?	-	-
1963-M46	2438236.50	1963 Jul 26	Sergeant	-	-	-	5thBtn 73rdArt.	-	-	WS	-	-	-	50?	-	-
1963-U01	2438241.18	1963 Jul 30 1616:08	Blue Scout Jr	-	22-1/AD-622	OAR 22-1/AFCRL-1/21	AFCRL-1/21 (AD-622)	-	-	CC	LC18A	-	-	11100	-	-
1963-S376	2438244.40	1963 Aug 2 2143	Shotput	-	7	San Marco	-	-	-	WI	-	-	-	294	-	-
1963-A133	2438302.50	1963 Oct	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-M47	2438306.50	1963 Oct 4	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-A158	2438333.50	1963 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-A159	2438333.50	1963 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-A160	2438333.50	1963 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1963-M50	2438363.50	1963 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1963-S605	2438381.22	1963 Dec 17 1717:34	Blue Scout Jr SLV-1C	-	302	ERCS 279L	-	-	-	V	4300C	-	-	1000?	-	-
1964-A01	2438394.50	1964 Jan	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-M154	2438394.50	1964 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-M155	2438394.50	1964 Jan	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-M03	2438425.50	1964 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-A20	2438436.25	1964 Feb 10 1802	Athena	-	A001 (Colo.)	Decoy RV?	ABRES A-1 (USAF)	-	-	GRLC	Pad 2	-	-	40?	-	-
1964-M04	2438442.50	1964 Feb 17	Sergeant	-	-	-	-	-	-	WS	LC32	-	-	50?	-	-
1964-M06	2438467.50	1964 Mar 13	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-S146	2438467.99	1964 Mar 13 1140:56	Blue Scout Jr	-	22-2 (OAR Probe 2)	OAR 22-2/AFCRL-9	-	-	-	CC	LC18A	-	-	600?	-	-
1964-S827	2438470.50	1964 Mar 16	Trailblazer 2	-	TB IIf	Trailblazer IIf	-	-	-	WI	-	-	-	150?	-	-
1964-S197	2438496.24	1964 Apr 10 1740	RAM B	-	RAM B-3	RAM B-3	-	-	-	WI	-	-	-	90?	-	-
1964-A78	2438544.47	1964 May 28 2315	Athena	-	A002 (Shiprock)	Decoy RV?	ABRES A-2 (USAF)	-	-	GRLC	Pad 2	-	-	40?	-	-
1964-A79	2438546.50	1964 Jun	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-A80	2438546.50	1964 Jun	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-M12	2438555.50	1964 Jun 9	Sergeant	-	099	-	-	-	-	WS	-	-	-	50?	-	-
1964-M13	2438555.50	1964 Jun 9	Sergeant	-	100	1stBtn 68thArt	-	-	-	WS	-	-	-	50?	-	-
1964-M11	2438556.50	1964 Jun 10	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-A96	2438576.50	1964 Jul	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-A97	2438576.50	1964 Jul	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-S335	2438585.39	1964 Jul 8 2123	Athena	-	A003	Mk 11 decoy?	ABRES B-1 (USAF)	-	-	GRLC	Pad 1	-	-	260	-	-
1964-A98	2438592.50	1964 Jul 16	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-S448	2438636.90	1964 Aug 29 0936:53	Blue Scout Jr SLV-1B(m)	-	21-2	Ion Engine Test B	-	CANDY BAG	-	PA	LC-A	-	-	2000	-	-
1964-S486	2438666.59	1964 Sep 28 0215	Athena	-	C001	Mk 11 decoy?	ABRES B-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1964-M21	2438668.50	1964 Oct	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-M22	2438668.50	1964 Oct	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-M23	2438668.50	1964 Oct	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-A145	2438668.50	1964 Oct	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-A148	2438672.83	1964 Oct 4 0800	Athena	-	D001	Subscale RV?	ABRES C-1 (USAF)	-	-	GRLC	Pad 2	-	-	0?	-	-
1964-S534	2438690.32	1964 Oct 21 1944	Astrobee 1500	-	NASA 16.02GT	-	-	-	-	WI	LA2A	-	-	1950	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S828	2438699.50	1964 Oct 31	Trailblazer 2	-	TB IIg	Trailblazer IIg	-	-	-	WI	-	-	-	150?	-	-
1964-A165	2438699.50	1964 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-A166	2438699.50	1964 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-A167	2438699.50	1964 Nov	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1964-S598	2438706.64	1964 Nov 7 0321	Athena	-	C004	Mk 11 Mod B Decoys	ABRES B-5 (USAF)	-	-	GRLC	Pad 1	-	-	260	-	-
1964-A176	2438727.64	1964 Nov 28 0323	Athena	-	C003	Mk 11 decoy?	ABRES B-4 (USAF)	-	-	GRLC	Pad 3	-	-	0?	-	-
1964-S670	2438734.69	1964 Dec 5 0430	Athena	-	C002	Mk 11 Mod A Decoy	ABRES B-3 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1964-M28	2438739.50	1964 Dec 10	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1964-S696	2438751.67	1964 Dec 22 0400?	Blue Scout Jr SLV-1B(m)	-	21-3	Ion Engine Test C	Program 661A	QUAKER TOWN	-	PA	LC-A	-	-	500	-	-
1965-A05	2438760.50	1965 Jan	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1965-S38	2438776.72	1965 Jan 16 0513	Athena	-	C006	Mk 11 decoy?	ABRES B-7 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S54	2438789.04	1965 Jan 28 1251:10	Blue Scout Jr	-	22-3 (OAR Probe 3)	OAR 22-3/AFCRL-309	-	-	-	CC	LC18A	-	-	200?	-	-
1965-A18	2438791.50	1965 Feb	ARPAT	-	-	-	-	-	-	WS	-	-	-	30?	-	-
1965-M01	2438791.50	1965 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-M02	2438791.50	1965 Feb	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-A20	2438793.77	1965 Feb 2 0630	Athena	-	D003	ABRES P-1 (USAF)	ABRES P-1 (USAF)	-	-	GRLC	Pad 2	-	-	50?	-	-
1965-A26	2438803.50	1965 Feb 12	Athena	-	D002	ABRES P-2 (USAF)	ABRES P-2 (USAF)	-	-	GRLC	Pad 3	-	-	0?	-	-
1965-A30	2438807.74	1965 Feb 16 0551	Athena	-	D008	ABRES P-4 (USAF)	ABRES P-4 (USAF)	-	-	GRLC	Pad 1	-	-	10?	-	-
1965-M04	2438819.50	1965 Mar	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-M05	2438819.50	1965 Mar	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-U05	2438850.17	1965 Mar 30 1609:31	Blue Scout Jr	-	22-4 (OAR Probe 4)	OAR 22-4/AFCRL-35	AFCRL-35	-	-	CC	LC18A	-	-	16500	-	-
1965-S822	2438851.50	1965 Apr 1	Trailblazer 2	-	TB IIh	Trailblazer IIh	-	-	-	WI	-	-	-	150?	-	-
1965-U06	2438860.26	1965 Apr 9 1810:37	Blue Scout Jr	-	22-9 (OAR Probe 5)	OAR 22-9/AFWL-14	AWFL-14	-	-	CC	LC18A	-	-	25422	-	-
1965-S235	2438865.11	1965 Apr 14 1439	Journeyman	-	NASA 11.07UE	Minnesota Particles	-	-	-	WI	-	-	-	1660	-	-
1965-S270	2438884.50	1965 May 4	Trailblazer 2	-	D58-3539	Trailblazer IIi	-	-	-	WI	-	-	-	300	-	-
1965-U07	2438893.17	1965 May 12 1602:35	Blue Scout Jr	-	22-8 (OAR Probe 6)	OAR 22-8/AFCRL-335	AFCRL-335	-	-	CC	LC18A	-	-	13586	-	-
1965-M13	2438911.50	1965 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-M14	2438911.50	1965 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-M15	2438911.50	1965 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1965-U08	2438921.18	1965 Jun 9 1626:15	Blue Scout Jr	-	22-5 (OAR Probe 7)	OAR 22-5/AFWL-304	AFWL-304	-	-	CC	LC18A	-	-	17533	-	-
1965-M86	2438927.50	1965 Jun 16	Sergeant	-	-	-	RB350 Training	-	-	SUIST	-	-	-	50?	-	-
1965-S369	2438933.68	1965 Jun 22 0415	Athena	-	B002	USN subscale Mk 2 RV?	ABRES Q-2 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1965-S371	2438933.82	1965 Jun 22 0737	Athena	-	B001	0.6-scale USN Mk 2 RV	ABRES Q-1 (USN)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S783	2438938.73	1965 Jun 27 0524:22	Trailblazer 2	-	No. 40	Trailblazer IIj	-	-	-	WI	-	-	-	300?	-	-
1965-S412	2438941.73	1965 Jun 30 0533	Journeyman	-	NASA 11.03UR	-	-	-	-	WI	LA4	-	-	1770	-	-
1965-S425	2438958.50	1965 Jul 17?	Athena	-	B003	USN subscale Mk 2 RV?	ABRES Q-3 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1965-A104	2438961.50	1965 Jul 20	Athena	-	C007	Chaff Payload E-1	ABRES E-1 (USAF)	-	-	GRLC	Pad 3	-	-	0?	-	-
1965-S434	2438968.67	1965 Jul 27 0400?	Athena	-	C011	Chaff Payload E-2	ABRES E-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-A112	2438968.80	1965 Jul 27 0715	Athena	-	D005	ABRES P-5 (USAF)	ABRES P-5 (USAF)	-	-	GRLC	Pad 1	-	-	0?	-	-
1965-S439	2438972.50	1965 Jul 31	Athena	-	D004	Small Blunt RV	ABRES P-6 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S440	2438975.70	1965 Aug 3 0447:00	Athena	-	C014	Chaff Payload E-3	ABRES E-3 (USAF)	-	-	GRLC	Pad 3	-	-	170	-	-
1965-A118	2438976.50	1965 Aug 4	Sergeant	-	-	SIGS Test	-	-	-	WS	-	-	-	10?	-	-
1965-S446	2438980.50	1965 Aug 8	Athena	-	C005	Mk 11 decoy?	ABRES B-6 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S447	2438980.50	1965 Aug 8	Athena	-	C009	Chaff Payload E-4	ABRES E-4 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1965-S472	2438993.50	1965 Aug 21?	Athena	-	C008	Mk 11 decoy?	ABRES B-8 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1965-A121	2438993.50	1965 Aug 21?	Athena	-	D009	Subscale RV?	ABRES C-2 (USAF)	-	-	GRLC	Pad 1	-	-	0?	-	-
1965-S482	2438999.50	1965 Aug 27	Athena	-	D012	ABRES P-9 (USAF)	ABRES P-9 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-M87	2438972.50	1965 Aug	Sergeant	-	-	-	RB150 Training	-	-	SUIST	-	-	-	50?	-	-
1965-M88	2439005.50	1965 Sep 2	Sergeant	-	-	-	RB250 Training	-	-	SUIST	-	-	-	50?	-	-
1965-S493	2439017.74	1965 Sep 14 0545	Athena	-	B004	WIRE Ionizing Pellets	ABRES N-1 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1965-S494	2439017.82	1965 Sep 14 0745	Athena	-	D033	Subscale Low Obs RVs	ABRES C-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1965-S502	2439024.50	1965 Sep 21?	Athena	-	D006	ABRES P-7 (USAF)	ABRES P-7 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S515	2439030.50	1965 Sep 27	Athena	-	C012	MARCAS?	ABRES W-1 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1965-S534	2439034.50	1965 Oct 1	Athena	-	B006	WIRE Ionizing Pellets	ABRES N-2 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1965-S548	2439045.50	1965 Oct 12	Athena	-	C016	MARCAS 1	ABRES W-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1965-S600	2439070.76	1965 Nov 6 0615?	Athena	-	D007	ABRES P-8 (USAF)	ABRES P-8 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1965-A165	2439086.50	1965 Nov 22	Athena	-	B007	Ionizing pellets?	ABRES N-3 (USN)	-	-	GRLC	Pad 3	-	-	0?	-	-
1965-S663	2439102.50	1965 Dec 8?	Athena	-	C017	MARCAS?	ABRES W-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1965-S671	2439104.50	1965 Dec 10	Athena	-	C023	ECM Decoy?	ABRES H-1 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S72	2439146.50	1966 Jan 21	Athena	-	C025	ECM Decoy?	ABRES H-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S94	2439160.50	1966 Feb 4?	Athena	-	C030	ECM Decoy H-3?	ABRES H-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S702	2439170.50	1966 Feb 14	Trailblazer 2	-	-	AFAL 1	-	-	-	WI	-	-	-	200?	-	-
1966-S114	2439173.50	1966 Feb 17	Athena	-	D014	ECM Decoy F-1	ABRES F-1 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-U05	2439202.55	1966 Mar 18 0115	Trailblazer 2	M	Meteor 8	-	Meteor 8	-	-	WI	-	-	-	280	-	-
1966-S204	2439216.50	1966 Apr 1	Athena	-	B009	Delayed Chaff Payload	ABRES T-1 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S203	2439216.50	1966 Apr 1	Athena	-	D019	ECM Decoy F-3	ABRES F-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S260	2439258.50	1966 May 13?	Athena	-	D018	ECM Decoy F-2	ABRES F-2 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S284	2439272.50	1966 May 27	Athena	-	D031	Chaff Payload E-6	ABRES E-6 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S283	2439272.50	1966 May 27	Athena	-	C019	Chaff Payload E-7	ABRES E-7 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-M21	2439276.50	1966 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1966-M22	2439276.50	1966 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1966-S300	2439284.16	1966 Jun 7 1557	WASP	-	-	WASP slosh test	-	-	-	WI	-	-	-	238	-	-
1966-A74	2439286.75	1966 Jun 10 0600?	Athena	-	D021	ECM Decoy F-4?	ABRES F-4 (USAF)	-	-	GRLC	Pad 3	-	-	0?	-	-
1966-S308	2439286.88	1966 Jun 10 0900	Athena	-	D023	ABRES QQ-1 (USAF)	ABRES QQ-1 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S331	2439299.50	1966 Jun 23	Athena	-	D034	RVTO?	ABRES SS-1 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S370	2439321.35	1966 Jul 14 2023	Athena	-	C015	ABRES GG-1 (ARPA)	ABRES GG-1 (ARPA)	-	-	GRLC	Pad 2	-	-	200?	-	WSMR
1966-M145	2439351.50	1966 Aug 14	Sergeant	-	-	-	RB650 Training	-	-	SUIST	-	-	-	50?	-	-
1966-S444	2439353.76	1966 Aug 16 0618	Scanner	-	-	Scanner 1	-	-	-	WI	-	-	-	612	-	-
1966-S447	2439355.50	1966 Aug 18	Athena	-	B011	WIRE Ionizing Pellets	ABRES N-6 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S448	2439356.50	1966 Aug 19	Athena	-	E001	FATE IO-1	ABRES I-1 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S803	2439360.12	1966 Aug 22 1500	Castor Lance	-	ADDPEP TB-4	Textile Ballute 4	-	-	-	EGL	-	-	-	560?	-	-
1966-S474	2439368.50	1966 Sep	Strypi IV	-	-	HALBERD RV	-	-	-	KAU?	-	-	-	200?	-	-
1966-S476	2439369.50	1966 Sep 1	Athena	-	D029	ECM Decoy F-7?	ABRES F-7 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S478	2439370.50	1966 Sep 2	Athena	-	D025	ABRES QQ-2 (USAF)	ABRES QQ-2 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S501	2439391.74	1966 Sep 23 0550?	Athena	-	B015	Poseidon SFT-1	ABRES RR-1 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S531	2439405.50	1966 Oct 7?	Athena	-	D024	Poseidon SFT-2	ABRES RR-2 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S533	2439405.50	1966 Oct 7	Athena	-	D049	ABRES WW-1 (USAF)	ABRES WW-1 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S543	2439412.50	1966 Oct 14	Athena	-	D036	RVTO	ABRES SS-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S542	2439412.50	1966 Oct 14	Athena	-	D035	RVTO	ABRES SS-2 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S563	2439424.50	1966 Oct 26	Trailblazer 2	-	-	AFAL 2 Blackout R&D	-	-	-	WI	-	-	-	300	-	-
1966-S589	2439436.50	1966 Nov 7	Athena	-	D039	Poseidon SFT-3	ABRES RR-3 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S588	2439436.50	1966 Nov 7	Athena	-	D041	RVTO	ABRES SS-4 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S593	2439440.60	1966 Nov 11 0222	Athena	-	D020	Poseidon SFT-4	ABRES RR-4 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1966-S592	2439440.71	1966 Nov 11 0507	Athena	-	B017	FATE	ABRES I-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S595	2439440.80	1966 Nov 11 0706	Athena	-	D047	ABRES WW-2 (USAF)	ABRES WW-2 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1966-S676	2439469.61	1966 Dec 10 0242	Scanner	-	-	Scanner 2	-	-	-	WI	-	-	-	709	-	-
1966-S688	2439474.50	1966 Dec 15	Athena	-	D038	RVTO?	ABRES SS-6 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1966-S692	2439475.50	1966 Dec 16	Athena	-	D042	ABRES QQ-3 (USAF)	ABRES QQ-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-M05	2439502.35	1967 Jan 11 2028	Castor	-	IFTV	Marquardt Scramjet	-	TREE MOSS	-	V	4300C	-	-	54	-	-
1967-A58	2439531.50	1967 Feb 10?	Athena	-	B045	Ionizing Pellets?	ABRES N-4 (USN)	-	-	GRLC	Pad 3	-	-	0?	-	-
1967-U01	2439535.74	1967 Feb 14 0552	Trailblazer 2	M	Meteor 10	-	Meteor 10	-	-	WI	-	-	-	306	-	-
1967-S126	2439544.50	1967 Feb 23	Athena	-	D037	Poseidon SFT-5	ABRES RR-5 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S129	2439546.61	1967 Feb 25 0235	Astrobee 1500	-	NASA 16.05US	-	-	-	-	WI	LA2A?	-	-	2380	-	-
1967-S134	2439552.50	1967 Mar 3?	Athena	-	C048	HAPDEC	ABRES AB-1 (ARPA)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S158	2439565.50	1967 Mar 16	Athena	-	B012	IMPALA 1	ABRES YY-2 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S162	2439566.50	1967 Mar 17	Athena	-	D051	ABRES SS-5 (USAF)	ABRES SS-5 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S161	2439566.94	1967 Mar 17 1030	Athena	-	D040	ABRES QQ-4 (USAF)	ABRES QQ-4 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S178	2439579.50	1967 Mar 30	Athena	-	D046	ABRES SS-7 (USAF)	ABRES SS-7 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S177	2439579.50	1967 Mar 30	Athena	-	C049	HAPDEC	ABRES AB-2 (ARPA)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S183	2439580.50	1967 Mar 31	Athena	-	E002	FATE I-06	ABRES I-6 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S195	2439587.50	1967 Apr 7?	Athena	-	D043	Poseidon SFT-6	ABRES RR-6 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S194	2439587.50	1967 Apr 7?	Athena	-	B031	Ionizing Pellets?	ABRES N-5 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S207	2439592.50	1967 Apr 12	Athena	-	B020	FATE I-03	ABRES I-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-A75	2439614.50	1967 May 4	Athena	-	D030	Poseidon SFT-7	ABRES RR-7 (USN)	-	-	GRLC	Pad 2	-	-	0?	-	-
1967-S245	2439615.50	1967 May 5	Athena	-	B033	IMPALA 2	ABRES YY-5 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S244	2439615.50	1967 May 5	Athena	-	B032	Ionizing Pellets?	ABRES N-7 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-M11	2439641.50	1967 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1967-M12	2439641.50	1967 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1967-S280	2439643.83	1967 Jun 2 0800?	Athena	-	B034	IMPALA 3	ABRES YY-6 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S296	2439649.50	1967 Jun 8	Athena	-	D053	ABRES SS-8 (USAF)	ABRES SS-8 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S325	2439660.36	1967 Jun 18 2032	Trailblazer 2	-	AD21.860	AFCRL TB2-1	-	-	-	WI	-	-	-	200	-	-
1967-S347	2439693.50	1967 Jul 22	Athena	-	D050	ABRES WW-3 (USAF)	ABRES WW-3 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S391	2439720.50	1967 Aug 18	Athena	-	E003	FATE I-04	ABRES I-4 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S392	2439720.50	1967 Aug 18	Athena	-	D055	ABRES WW-4 (USAF)	ABRES WW-4 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-A110	2439726.50	1967 Aug 24	Athena	-	D059	Poseidon SFT-8	ABRES AC-1 (USN)	-	-	GRLC	Pad 3	-	-	0?	-	-
1967-S394	2439727.50	1967 Aug 25	Athena	-	D048	ABRES QQ-5 (USAF)	ABRES QQ-5 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S406	2439732.50	1967 Aug 30	Astrobee 1500	-	NASA 16.03GR	-	-	-	-	WI	LA2A?	-	-	1500?	-	-
1967-S428	2439741.82	1967 Sep 8 0736	Athena	-	D057	ABRES AI-1 (USAF)	ABRES AI-1 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S437	2439747.50	1967 Sep 14	Athena	-	D056	ABRES AD-1 (USAF)	ABRES AD-1 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S458	2439762.66	1967 Sep 29 0345	Athena	-	C051	HAPDEC	ABRES AH-2 (ARPA)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S459	2439762.74	1967 Sep 29 0545	Athena	-	D066	Poseidon SFT-9	ABRES AC-2 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-S460	2439762.81	1967 Sep 29 0730	Athena	-	C050 [090]	HAPDEC	ABRES AH-1 (ARPA)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S485	2439775.50	1967 Oct 12	Athena	-	B030 [091]	IMPALA 4	ABRES YY-3 (USN)	-	-	GRLC	Pad 2	-	-	200?	-	-
1967-S602	2439790.31	1967 Oct 26 1921:55	Trailblazer 2	-	-	AFAL 3	-	-	-	WI	-	-	-	290	-	-
1967-S537	2439811.50	1967 Nov 17?	Athena	-	D063 [092]	Poseidon SFT-10	ABRES AC-3 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1967-S555	2439824.50	1967 Nov 30	Athena	-	B023 [093]	FATE	ABRES I-8 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1967-M19	2439824.50	1967 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1967-M20	2439824.50	1967 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-S79	2439866.50	1968 Jan 11	Athena	-	B022 [094]	FATE	ABRES I-7 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1968-S87	2439873.50	1968 Jan 18	Athena	-	B039 [095]	ABRES X-1 (USN)	ABRES X-1 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1968-S105	2439887.50	1968 Feb 1	Athena	-	B037 [096]	IMPALA 5	ABRES YY-4 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1968-M65	2439916.50	1968 Mar 1	Sergeant	-	-	-	RB650 Training	-	-	NAMFI	-	-	-	50?	-	-
1968-M66	2439915.50	1968 Mar	Sergeant	-	-	-	30FA B2 Training	-	-	NAMFI	-	-	-	50?	-	-
1968-S200	2439936.50	1968 Mar 21	Athena	-	B046 [097]	ABRES AN-10 (USAF)	ABRES AN-10 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1968-S221	2439944.62	1968 Mar 29 0300?	Athena	-	D068 [098]	ABRES AM-2 (USAF)	ABRES AM-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1968-S220	2439944.68	1968 Mar 29 0424	Athena	-	B044 [099]	RCS?	ABRES AE-2 (USN)	-	-	GRLC	Pad 1	-	-	200?	-	-
1968-S226	2439944.81	1968 Mar 29 0724	Athena	-	V114C [100]	HAPDEC	ABRES AH-5 (ARPA)	-	-	GRLC	Pad 3	-	-	200?	-	-
1968-S271	2439967.23	1968 Apr 20 1738	Astrobee 1500	-	NASA 16.04UI	-	-	-	-	WI	LA2A?	-	-	1250	-	-
1968-M07	2439976.50	1968 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-M63	2439978.50	1968 May 2	Sergeant	-	-	MINOTAURUS 68	RB250 Training	-	-	NAMFI	-	-	-	50?	-	-
1968-A76	2439978.50	1968 May 2	Athena	-	V116B [101]	RCS	ABRES AE-3 (USN)	-	-	GRLC	Pad 1	-	-	0?	-	-
1968-A78	2439993.78	1968 May 17 0650?	Athena	-	D061 [102]	Poseidon SFT-11?	ABRES AC-4 (USN)	-	-	GRLC	Pad 3	-	-	0?	-	-
1968-M12	2440007.50	1968 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-M13	2440007.50	1968 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-M64	2440017.50	1968 Jun 10	Sergeant	-	-	-	RB150 Training	-	-	NAMFI	-	-	-	50?	-	-
1968-A87	2440056.50	1968 Jul 19?	Athena	-	B040 [103]	RCS?	ABRES AE-4 (USN)	-	-	GRLC	Pad 3	-	-	0?	-	-
1968-S561	2440160.50	1968 Nov	Strypi VI	-	-	MTV-I	-	-	-	JI	-	-	-	200?	-	-
1968-S662	2440188.50	1968 Nov 28	Trailblazer 2	-	-	AFAL 4	-	-	-	WI	-	-	-	300?	-	-
1968-S582	2440175.73	1968 Nov 15 0530?	Athena	-	V120B [104]	ABRES AN-11 (USAF)	ABRES AN-11 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1968-S583	2440175.79	1968 Nov 15 0700?	Athena	-	D062 [105]	Poseidon SFT-12	ABRES AC-5 (USN)	-	-	GRLC	Pad 3	-	-	200?	-	-
1968-M23	2440182.50	1968 Nov 22	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-M27	2440190.50	1968 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1968-S628	2440196.61	1968 Dec 6 0240	Athena	-	D045 [106]	ABRES QQ-6 (USAF)	ABRES QQ-6 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1968-S627	2440196.79	1968 Dec 6 0700?	Athena	-	V137D [107]	ABRES AM-3 (USAF)	ABRES AM-3 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1968-S631	2440196.86	1968 Dec 6 0835	Athena	-	V136D [108]	ABRES AN-3 (USAF)	ABRES AN-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1968-S645	2440203.59	1968 Dec 13 0210	Athena	-	V118B [109]	Poseidon SFT-13	ABRES AC-6 (USN)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S23	2440221.50	1969?	Strypi VI	-	-	MTV-I	-	-	-	KAU?	-	-	-	200?	-	-
1969-A18	2440238.63	1969 Jan 17 0305	Athena	-	V145D [110?]	ABRES AM-1 (USAF)	ABRES AM-1 (USAF)	-	-	GRLC	Pad 1	-	-	0?	-	-
1969-S70	2440238.50	1969 Jan 17	Athena	-	V140D [111?]	ABRES AN-4 (USAF)	ABRES AN-4 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1969-S80	2440245.58	1969 Jan 24 0200?	Athena	-	B038 [112?]	FATE Type IIIB	ABRES I-11 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S131	2440266.64	1969 Feb 14 0320	Athena	-	B043 [113?]	Endo Decoy D-5	ABRES AN-2 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1969-S223	2440308.71	1969 Mar 28 0500	Athena	-	V138D [114?]	ABRES AJ-1 (ARPA)	ABRES AJ-1 (ARPA)	-	-	GRLC	Pad 3	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-M23	2440345.50	1969 May 4	Sergeant	-	-	-	-	-	-	WS	LC32W	-	-	50?	-	-
1969-M24	2440345.50	1969 May 4	Sergeant	-	-	-	-	-	-	WS	LC32E	-	-	50?	-	-
1969-S356	2440378.70	1969 Jun 6 0455	Athena	-	B036 [115]	FATE	ABRES I-9 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S358	2440378.87	1969 Jun 6 0855	Athena	-	V132D [116]	ABRES AJ-2 (ARPA)	ABRES AJ-2 (ARPA)	-	-	GRLC	Pad 3	-	-	200?	-	-
1969-S368	2440390.58	1969 Jun 18 0156	Trailblazer 2	-	CRL AD21.861	AFCRL TB2-2	-	-	-	WI	-	-	-	299	-	-
1969-S372	2440392.83	1969 Jun 20 0802	Athena	-	V119D [117]	RVTO-1B S/N 914	ABRES AR-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S381	2440399.50	1969 Jun 27?	Athena	-	V142D [118]	RVTO-1B S/N 913	ABRES AR-1 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1969-M92	2440464.50	1969 Aug 31	Sergeant	-	-	-	RB350 Training	-	-	NAMFI	-	-	-	50?	-	-
1969-S489	2440474.76	1969 Sep 10 0615	Athena	-	V147D [119]	RVTO-2B-2	ABRES AS-2 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S520	2440490.50	1969 Sep 26?	Athena	-	V130D [120]	RVTO-2B-1?	ABRES AS-1 (USAF)	-	-	GRLC	Pad 2	-	-	200?	-	-
1969-S549	2440510.45	1969 Oct 15 2243:00	Astrobee 1500	-	NASA 16.06GR	RAE-B Test	-	-	-	WI	LA2A?	-	-	2575	-	-
1969-M34	2440555.50	1969 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1970-S324	2440700.82	1970 Apr 24 0744	Athena	-	V141D [121]	ABRES CBD (USAF)	ABRES CBD (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1970-S689	2440732.83	1970 May 26 0800?	Strypi	-	Sandia 428-12	BIRDSEED I Duck	Plasma gun	-	-	KAU	-	-	-	210?	-	-
1970-S749	2440733.50	1970 May 27	Strypi VI	-	-	MTVI-1	-	-	-	KAU	-	-	-	200?	-	-
1970-S382	2440740.50	1970 Jun 3	Strypi VI	-	-	MTVI-2	-	-	-	KAU	-	-	-	200?	-	-
1970-M22	2440737.50	1970 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1970-M23	2440737.50	1970 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1970-S690	2440743.83	1970 Jun 6 0800?	Strypi	-	Sandia 428-	BIRDSEED I Egret	Plasma gun	-	-	KAU	-	-	-	210?	-	-
1970-M38	2440829.50	1970 Sep	Sergeant	-	-	MINOTAURUS 70	RakArtLBttr Training	-	-	NAMFI	-	-	-	50?	-	-
1970-S427	2440778.86	1970 Jul 11 0840	Athena	-	V123D [122]	RVTO-2B-5?	ABRES AS-5 (USAF)	-	-	GRLC	Pad 1	-	-	200?	-	-
1970-S563	2440869.25	1970 Oct 9 1757	Castor	2R	-	SPED II	-	-	-	WI	LA4	-	-	85	-	-
1970-S619	2440915.50	1970 Nov 24 2356	Trailblazer 2	-	CRL AD21.862	AFCRL TB2-3	-	-	-	WI	-	-	-	321	-	-
1970-S626	2440915.64	1970 Nov 25 0317	Blue Scout Jr SLV-1C	?	NRL NB22.208	UV Telescope	-	-	-	WI	-	-	-	1480	-	-
1970-M28	2440920.50	1970 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1971-S54	2440960.42	1971 Jan 8 2211	Athena	-	V144D [123]	ABRES CCD-1	ABRES CCD-1	-	-	GRLC	Pad 3	-	-	200?	-	-
1971-S105	2440981.49	1971 Jan 29 2352	Strypi	-	SECEDE R16	SECEDE II OLIVE	-	-	-	EGL	-	-	-	190	-	-
1971-S153	2441022.79	1971 Mar 12 0700?	Athena	-	B035 [124]	RVTO-2B-3?	ABRES AS-3 (USAF)	-	-	GRLC	Pad 3	-	-	200?	-	-
1971-S236	2441060.77	1971 Apr 19 0630	Athena	-	V127D [126]	SAM/AST-01	ABRES SAMAST	-	-	GRLC	Pad 3	-	-	200?	-	-
1971-M10	2441071.50	1971 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1971-S281	2441085.50	1971 May 14	Athena	-	V146D [127]	TRR-01	ABRES TRR01	-	-	GRLC	Pad 3	-	-	200?	-	-
1971-S320	2441106.74	1971 Jun 4 0543	Athena	-	B041 [128]	RVTO-2B-4?	ABRES AS-4	-	-	GRLC	Pad 1	-	-	200?	-	-
1971-S328	2441113.73	1971 Jun 11 0525	Athena	-	V139D [129]	-	-	-	-	GRLC	Pad 3	-	-	200?	-	-
1971-S396	2441184.10	1971 Aug 20 1430	Athena	-	V131D [131]	HAVE SINEW 1	-	-	-	GRLC	Pad 1	-	-	200?	-	-
1971-S448	2441211.71	1971 Sep 17 0500	Athena	-	V126D [132]	SAM/AST 01A	ABRES SAMAST	-	-	GRLC	Pad 3	-	-	200	-	-
1971-S655	2441255.50	1971 Nov?	Strypi	-	Sandia 428-025	BIRDSEED II BUITRE	Plasma gun	-	-	KAU	-	-	-	210?	-	-
1971-M15	2441255.50	1971 Nov	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1971-M16	2441285.50	1971 Dec	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1972-M05	2441468.50	1972 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1972-M06	2441468.50	1972 Jun	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1972-S274	2441527.29	1972 Jul 28 1859	Trailblazer 2	-	CRL A21.011-1	AFCRL TB2-4	-	-	-	WI	-	-	-	314	-	-
1972-S349	2441606.12	1972 Oct 15 1500	Strypi VIIAR	-	NASA 12.18NE	RCTV/Art. Aurora	-	-	-	KAU	-	-	-	500?	-	-
1972-M08	2441621.50	1972 Nov	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1972-M09	2441621.50	1972 Nov	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1973-M09	2441802.50	1973 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1973-M10	2441802.50	1973 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1973-S175	2441828.14	1973 May 25 1520	Castor Lance	-	CRL A44.320-01	MAP-III (IR Radiom)	-	-	-	CLBI	-	-	-	569	-	-
1973-M14	2441986.50	1973 Nov	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1973-S429	2442023.46	1973 Dec 6 2259	Trailblazer 2	-	CRL A21.220-1	AFCRL TB2-5	-	-	-	WI	-	-	-	303	-	-
1973-S437	2442029.29	1973 Dec 12 1900	Athena	-	Athena C [142]	HEART V4-6763	-	-	-	WI	-	-	-	200?	-	-
1974-S27	2442078.02	1974 Jan 30 1232	Athena	-	- [143]	HEART V4-6765	-	-	-	WI	-	-	-	200?	-	-
1974-A04	2442085.82	1974 Feb 7 0741	Strypi IIAR	-	Sandia 428-?	LRL ACS 10	-	-	-	KAU	LC1	-	-	5	-	-
1974-M44	2442106.50	1974 Mar	Sergeant	-	-	MINOTAURUS 74	RakArtLBttr Training	-	-	NAMFI	-	-	-	50?	-	-
1974-S149	2442129.84	1974 Mar 23 0811	Strypi IVA	-	Barebird	Acanta-Contiga	-	-	-	PF	-	-	-	200?	-	-
1974-S28	2442132.45	1974 Mar 25 2245	Athena	-	- [147]	HEART V4-6766	-	-	-	WI	-	-	-	200?	-	-
1974-S496	2442132.48	1974 Mar 25 2330	Athena	-	- [148]	HEART V4-6764	-	-	-	WI	-	-	-	200?	-	-
1974-M01	2442167.50	1974 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1974-M02	2442167.50	1974 May	Sergeant	-	-	-	-	-	-	WS	-	-	-	50?	-	-
1974-M43	2442169.50	1974 May 2	Sergeant	-	-	-	RakSArt Training	-	-	NAMFI	-	-	-	50?	-	-
1974-S498	2442288.25	1974 Aug 28 1800	Athena	-	- [153]	HEART V4-6767	-	-	-	WI	-	-	-	200?	-	-
1974-A38	2442320.50	1974 Oct?	Strypi VIIAR	-	TM-354	MTV-II-1	-	-	-	KAU	-	-	-	0?	-	-
1974-S372	2442354.94	1974 Nov 3 1034:55	Strypi IIR	-	Sandia 428-034	LRL ACS 11	-	-	-	KAU	LC1	-	-	255	-	-
1974-S497	2442395.38	1974 Dec 13 2110	Athena	-	- [154]	HEART V4-7486	-	-	-	WI	-	-	-	200?	-	-
1974-S421	2442399.54	1974 Dec 18 0058	Sergeant Hydac	-	SH74-1	Ballistic Test	-	-	-	PF	-	-	-	500?	-	-
1975-S32	2442422.62	1975 Jan 10 0250?	Castor	2R	-	SOFT	-	-	-	KMR	RN	-	-	200?	-	-
1975-S361	2442433.33	1975 Jan 20 2000	Athena	-	Athena C [155]	HEARTS II RV 106	V4-7487	-	-	WI	-	-	-	200?	-	-
1975-S97	2442483.31	1975 Mar 11 1930	Strypi VIIR	-	-	MTV-II-2	-	-	-	WI	-	-	-	170	-	-
1975-S101	2442483.83	1975 Mar 12 0748:10	Sergeant Hydac	-	IC519.07-1B	ICECAP 75A	-	-	-	PF	-	-	-	500?	-	-
1975-M20	2442502.50	1975 Apr	Sergeant	-	-	-	30FA B2 Training	-	-	NAMFI	-	-	-	50?	-	-
1975-M21	2442502.50	1975 Apr	Sergeant	-	-	-	30FA B2 Training	-	-	NAMFI	-	-	-	50?	-	-
1975-S18	2442505.27	1975 Apr 2 1830	Athena	-	Athena D [156]	HEARTS II RV 112	V4-7489	-	-	WI	-	-	-	200?	-	-
1975-S122	2442515.91	1975 Apr 13 0946	Castor	-	DNA EX531.43-1	EXCEDE	-	-	-	PF	-	-	-	100	-	-
1975-A38	2442576.51	1975 Jun 13 0019	Sergeant	2R	S75-1	PF-SGT-100 Ballistic	-	-	-	PF	-	-	-	8	-	-
1975-S237	2442631.50	1975 Aug 7	Castor	2R	-	-	-	-	-	KMR	RN	-	-	200?	-	-
1975-S275	2442673.81	1975 Sep 18 0730	Strypi VIIR	-	-	NRV Nosetip Recovery	-	-	-	WI	-	-	-	170	-	-
1975-S310	2442716.49	1975 Oct 30 2352:31	Sergeant	-	EX530.90-1/S75-2	PF-SGT-101	-	-	-	PF	-	-	-	100	-	-
1975-S343	2442750.50	1975 Dec 4	Castor	2R	-	-	-	-	-	KMR	RN	-	-	200?	-	-
1976-M05	2442800.92	1976 Jan 23 1006:40	Sergeant	-	WA630.50-1	Optical Track Test	-	-	-	PF	-	-	-	80?	-	-
1976-S114	2442836.74	1976 Feb 28 0546:40	Sergeant	-	EX630.42-1	EXCEDE SWIR	-	-	-	PF	-	-	-	100	-	-
1976-S157	2442869.84	1976 Apr 1 0805:20	Sergeant	-	IC630.02-1A	ICECAP 76 HIRIS	-	-	-	PF	-	-	-	130	-	-
1976-S159	2442871.39	1976 Apr 2 2118	Athena	-	Athena D [157]	MSV-1	-	-	-	WI	-	-	-	200	-	-
1976-S360	2442937.10	1976 Jun 7 1424:16	Strypi IVR	-	-	LASL Buaro	-	-	-	KAU	-	-	-	450	-	-
1976-S213	2442956.50	1976 Jun 27	Castor	2R	-	-	-	-	-	KMR	RN	-	-	200?	-	-
1976-S349	2443128.47	1976 Dec 15 2318	Athena	-	Athena D [158]	MSV-2	-	-	-	WI	-	-	-	200	-	-
1977-S281	2443460.87	1977 Nov 13 0855	Sergeant	-	DNA IC730.09-1	FWIF I	-	-	-	PF	-	-	-	141	-	-
1977-S122	2443222.96	1977 Mar 20 1058	Athena	-	Athena D [159]	MSV-3	-	-	-	WI	-	-	-	200	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-M26	2443260.50	1977 Apr 27	Sergeant	-	-	-	RB350 Training	-	-	NAMFI?	-	-	-	50?	-	-
1978-S81	2443567.84	1978 Feb 28 0810:50	Sergeant Hydac	-	DNA IC819.08-1	MULTI-WIDEBAND	-	-	-	PF	-	-	-	458	-	-
1978-M04	2443668.33	1978 Jun 8 2000	Sergeant	-	EX830.56-1	Recovery test	-	-	-	PF	-	-	-	105	-	-
1978-S229	2443826.03	1978 Nov 13 1244:30	Sergeant	-	DNA IC830.09-1A	FWIF II	-	-	-	PF	-	-	-	141	-	-
1978-S249	2443847.50	1978 Dec 5	Castor	2R	-	DOT 1	-	-	-	KMR	RN	-	-	235	-	-
1979-S54	2443904.50	1979 Feb	Strypi VIIR	?	SWERVE	-	-	-	-	KAU	-	-	-	200?	-	-
1979-S210	2444141.50	1979 Sep 25	Sergeant Hydac	-	ABRES	HAVE LENT IV	-	-	-	KAU	-	-	-	400?	-	-
1979-S240	2444190.70	1979 Nov 13 0445:00	Strypi II	-	NASA 12.37UE	ECHO V	-	-	-	PF	-	-	-	215	-	-
1980-S39	2444274.50	1980 Feb 5	DOT	-	-	DOT 2	-	-	-	KMR	RN	-	-	324	-	-
1980-S304	2444438.50	1980 Jul 18	Sergeant Hydac	-	ABRES	HAVE JEEP V	Mk 500 PAS	-	-	KMR	RN	-	-	300?	-	-
1980-S305	2444444.50	1980 Jul 24	Sergeant Hydac	-	ABRES	HAVE JEEP V	Mk 500 PAS	-	-	KMR	RN	-	-	300?	-	-
1980-S172	2444498.50	1980 Sep 16	DOT	-	-	DOT 3	-	-	-	KMR	RN	-	-	296	-	-
1980-S164	2444511.50	1980 Sep 29	Strypi VIIIR	-	SWERVE II-1	-	-	-	-	KAU	-	-	-	200?	-	-
1980-S165	2444482.50	1980 Sep	Strypi VIIIR	?	SWERVE II-2	-	-	-	-	KAU	-	-	-	200?	-	-
1981-S62	2444640.98	1981 Feb 5 1125	Sergeant	-	GL A30.072	FWIF IV	-	-	-	PF	-	-	-	130	-	-
1981-S74	2444661.22	1981 Feb 25 1720	Sergeant Hydac	-	-	HAVE SLED	-	-	-	PF	-	-	-	400?	-	-
1981-S76	2444669.20	1981 Mar 5 1648	Sergeant Hydac	-	-	HAVE SLED	-	-	-	PF	-	-	-	400?	-	-
1981-S82	2444675.69	1981 Mar 12 0430	Sergeant Hydac	-	-	HAVE SLED	-	-	-	PF	-	-	-	400?	-	-
1981-S117	2444767.50	1981 Jun 12	DOT	-	-	DOT 4	-	-	-	KMR	RN	-	-	303	-	-
1981-S167	2444916.00	1981 Nov 7 1203:40	Sergeant	-	GL A30.175	FWIF V	-	-	-	PF	-	-	-	130	-	-
1982-S251	2445185.50	1982 Aug 4	Castor	2R	-	DOT 5	-	-	-	KMR	RN	-	-	230?	-	-
1983-S89	2445437.88	1983 Apr 13 0906:23	Sergeant	-	GL A30.276	FWIF VI	CWAMI	-	-	PF	-	-	-	140	-	-
1985-S90	2446233.68	1985 Jun 17 0415	Castor Lance	-	GL A44.362	BEAM	-	-	-	CLBI	-	-	-	500?	-	-
1985-S18	2446155.50	1985 Apr	Strypi VIIR	?	SWERVE III	-	-	-	-	KAU	-	-	-	200?	-	-
1987-S203	2446885.50	1987 Apr?	Strypi XI	-	-	-	-	-	-	KAU	LC1?	-	-	200?	-	-
1988-S51	2447200.50	1988 Feb 9	Strypi XI	-	-	-	-	-	-	KAU	LC1?	-	-	200?	-	-
1989-S115	2447526.50	1989 Jan	Strypi XI	?	-	THORNY MERIT	-	-	-	KAU	LC1?	-	-	200?	-	-
1991-S72	2448306.10	1991 Feb 18 1418:35	Strypi XI	-	LACE	Bow Shock 2	-	-	-	KAU	LC1	-	-	120	-	-
1992-S12	2448638.50	1992 Jan 17	Storm	-	S1	BTTV-1 Validation	-	-	-	WS	SULF	-	-	200?	-	-
1992-S51	2448789.50	1992 Jun 16	Storm	-	S2	BTTV-2 Validation	-	-	-	WS	SULF	-	-	200?	-	-
1993-S11	2449024.18	1993 Feb 5 1624	Storm	-	S3	BTTV-3 Validation	-	-	-	WS	SULF	-	-	200?	-	-
1993-S64	2449268.50	1993 Oct 8	Storm	-	-	BTTV-4 PAC-2 Target	-	-	-	WS	SULF	-	-	200?	-	-
1993-S66	2449286.50	1993 Oct 26	Storm	-	-	BTTV-5 ERINT Mutimode	-	-	-	WS	LC36	-	-	200?	-	-
1993-S75	2449321.50	1993 Nov 30	Storm	-	-	BTTV-6 ERINT GTF-2	-	-	-	WS	LC36	-	-	200?	-	-
1993-S76	2449338.50	1993 Dec 17	Storm	-	-	MTTV-1 ERINT Demo	-	-	-	WS	SULF	-	-	200?	-	-
1994-S15	2449399.18	1994 Feb 15 1618	Storm	-	-	BTTV-7 ERINT GTF-3	-	-	-	WS	SULF	-	-	200?	-	-
1994-S46	2449541.50	1994 Jul 8	Sergeant	-	-	MSTI-2 Target	-	-	-	WI	-	-	-	100?	-	-
1994-S53	2449572.50	1994 Aug 8	Sergeant	-	-	JTF-95 CEC Target	-	-	-	WI	-	-	-	100?	-	-
1994-S56	2449583.52	1994 Aug 19 0023	Sergeant	-	-	JTF-95 MSTI Target	-	-	-	WI	-	-	-	100?	-	-
1995-S11	2449755.50	1995 Feb 7	Storm	-	S9	BTTV-8 THAAD Demo	-	-	-	WS	SULF	-	-	200?	-	-
1995-S45	2449894.50	1995 Jun 26	Strypi IX	-	-	ETCE-11	-	-	-	KAU	-	-	-	200?	-	-
1995-S46	2449897.50	1995 Jun 29	Strypi IX	-	-	ETCE-12	-	-	-	KAU	-	-	-	200?	-	-
1995-S54	2449945.50	1995 Aug 16	Storm	-	S10?	MTTV-2 MTD-1(GPS)	-	-	-	WS	LC36	-	-	200?	-	-
1995-S67	2450004.11	1995 Oct 13 1440	Storm	-	S11	BTTV-9 THAAD Target	-	-	-	WS	SULF	-	-	200?	-	-
1995-S86	2450065.00	1995 Dec 13 1200	Storm	-	-	BTTV-10 THAAD Target	-	-	-	WS	SULF	-	-	200	-	-
1997-S11	2450489.77	1997 Feb 10 0630	Strypi XIIR	-	RBIFF 1	-	-	-	-	NTS	Area 26	-	-	220	200?	TTR
1997-S66	2450726.27	1997 Oct 4 1830	Strypi XIIR	-	RBIFF 2	-	-	-	-	NTS	Area 26	-	-	200?	190	Goldfield,NV

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-M01	2434419.50	1953 Feb 11	RV-A-10	-	1	0.000	ORDRSA	MS	-	-	Test	MT60-2544	-	-
1953-M02	2434440.50	1953 Mar 4	RV-A-10	-	2	0.000	ORDRSA	MF	U	-	Test	MT60-2544	-	-
1953-M03	2434461.50	1953 Mar 25	RV-A-10	-	3	0.000	ORDRSA	MS	-	-	Test	MT60-2544	-	-
1953-M04	2434461.50	1953 Mar 25	RV-A-10	-	4	0.000	ORDRSA	MS	-	-	Test	MT60-2544	-	-
1955-A468	2435346.29	1955 Aug 26 1903	X-17	-	D-1	0.000	6555A	SF	U	LMSC/	Test	X17FR	MT60-2544	Cleary
1955-A473	2435374.30	1955 Sep 23 1910	X-17	-	D-2	0.000	6555A	SF	U	LMSC/	Test	X17FR	MT60-2544	Cleary
1955-S105	2435443.37	1955 Dec 1 2056	X-17	-	D-3	0.000	6555A	SS	-	LMSC/	Test	X17FR	MT60-2544	Cleary
1956-M01	2435491.50	1956 Jan 19	Sergeant	-	1	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-S07	2435493.25	1956 Jan 20 1806	X-17	-	D-4	0.000	6555A	SS	-	LMSC/	Test	X17FR	MT60-2544	Cleary
1956-M02	2435531.50	1956 Feb 28	Sergeant	-	2	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-S16	2435538.39	1956 Mar 5 2120	X-17	-	D-5	0.000	6555A	SS	-	LMSC/	Test	X17FR	MT60-2544	Cleary
1956-S24	2435580.94	1956 Apr 17 1030	X-17	-	R-1	0.000	6555A	SS	-	LMSC/	Reentry Test	MT60-2544	Cleary	-
1956-M03	2435587.50	1956 Apr 24	Sergeant	-	3	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-S45	2435651.06	1956 Jun 26 1324	X-17	-	D-6A	0.000	6555A	SS	-	LMSC/	Test	X17FR	MT60-2544	Cleary
1956-S52	2435671.81	1956 Jul 17 0728	X-17	-	R-2	0.000	6555A	SS	-	LMSC/	Reentry Test	MSD-0203	Cleary	-
1956-A77	2435682.59	1956 Jul 28 0212	X-17	-	R-3	0.000	6555A	SF	U	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-A79	2435703.85	1956 Aug 18 0831	X-17	-	R-4	0.000	6555A	SF	U	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S77	2435709.19	1956 Aug 23 1632	X-17	-	R-5	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S78	2435714.04	1956 Aug 28 1302	X-17	-	R-6	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S79	2435725.17	1956 Sep 8 1609	X-17	-	R-7	0.000	6555A	SF	U	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S82	2435748.39	1956 Oct 1 2121	X-17	-	R-8	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S83	2435752.11	1956 Oct 5 1432	X-17	-	R-9	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S84	2435760.24	1956 Oct 13 1746	X-17	-	R-10	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S85	2435765.08	1956 Oct 18 1349	X-17	-	R-11	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S89	2435772.23	1956 Oct 25 1729	X-17	-	R-12	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-M07	2435780.50	1956 Nov 3	Sergeant	-	4	0.000	ORDRSA	MU	-	-	Test	wsmr-history.org	-	-
1956-S96	2435783.05	1956 Nov 5 1309	X-17	-	R-13	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S101	2435794.11	1956 Nov 16 1438	X-17	-	R-14	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S104	2435801.08	1956 Nov 23 1357	X-17	-	R-15	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S106	2435811.15	1956 Dec 3 1536	X-17	-	R-16	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1956-S108	2435819.03	1956 Dec 11 1237	X-17	-	R-17	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-S06	2435847.25	1957 Jan 8 1759	X-17	-	R-18	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-S07	2435854.19	1957 Jan 15 1630	X-17	-	R-19	0.000	6555A	SF	U	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-A07	2435868.19	1957 Jan 29 1630	X-17	-	R-20	0.000	6555A	SF	U	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-M01	2435869.50	1957 Jan 31	Sergeant	-	5	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1957-S13	2435877.04	1957 Feb 7 1300	X-17	-	R-21	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-S14	2435884.09	1957 Feb 14 1412	X-17	-	R-22	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-S15	2435899.00	1957 Mar 1 1158	X-17	-	R-23	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-S16	2435909.05	1957 Mar 11 1307	X-17	-	R-24	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544 (Mar15)	-
1957-S18	2435919.08	1957 Mar 21 1354	X-17	-	R-25	0.000	6555A	SS	-	LMSC/	Reentry Test	X17FR	MT60-2544	Cleary
1957-M06	2435944.50	1957 Apr 16	Sergeant	-	6	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1957-S26	2435941.50	1957 Apr 13	Polaris FTV-5	-	VI-1	0.000	USNSPO	MF	U	-	Reentry Test	Cleary95	-	-
1957-S61	2436038.50	1957 Jul 19	Polaris FTV-3	-	3-204-1	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	-	-
1957-S80	2436059.50	1957 Aug 9	Polaris FTV-3	-	3-204-2	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	-	-
1957-S90	2436067.34	1957 Aug 16 2014	Polaris FTV-5	-	5-204-1	0.000	USNSPO	MS	-	-	Reentry Test	Ulrich	Cleary95	-
1957-S62	2436073.13	1957 Aug 22 1503	X-17	-	R-26	0.000	6555A	SS	-	LMSC/	Reentry Test	LMSD-2595	MT60-2544	-
1957-S106	2436091.07	1957 Sep 9 1345	Polaris FTV-1	-	1-204-6 Polaris jg.	0.000	USNSPO	MS	-	-	Reentry Test	OxnardPC570910	Cleary	-
1957-M14	2436114.50	1957 Oct 3	Sergeant	-	8	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1957-S140	2436134.16	1957 Oct 22 1550	Polaris FTV-1	-	1-204-7	0.000	USNSPO	MS	-	-	Reentry Test	OcalaStar571022	Cleary/Rigg	[r 1735]
1957-S143	2436136.10	1957 Oct 24 1430	Polaris FTV-3	-	3-204-3	0.000	USNSPO	MS	-	-	Reentry Test	OrlandoSentinel	LebanonDN571025	Cleary95
1957-S163	2436150.50	1957 Nov 8	Polaris FTV-3	-	3-204-4	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	-	-
1957-S170	2436157.50	1957 Nov 15	Polaris FTV-1	-	1-204-8	0.000	USNSPO	MS	-	-	Reentry Test	Cleary95	-	-
1957-M15	2436168.50	1957 Nov 26	Sergeant	-	7	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1957-S176	2436183.20	1957 Dec 10 1650	Polaris FTV-1	-	1-204-9	0.000	USNSPO	MS	-	-	Reentry Test	MilwaukeeJ571210	Cleary95	-
1958-S10	2436221.04	1958 Jan 17 1259	Polaris FTV-1	-	1-204-10	0.000	USNSPO	MS	-	-	Test	DailyInd580117	Cleary95	-
1958-M01	2436224.50	1958 Jan 21	Sergeant	-	9	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1958-M02	2436276.50	1958 Mar 14	Sergeant	-	10	0.000	ORDRSA	MS	-	-	OT?	WSMR	-	-
1958-S56	2436312.05	1958 Apr 18 1305	Polaris FTV-1	-	1-204-11	0.000	USNSPO	MS	-	-	Test	CumberlandET580418	Cleary95	-
1958-M04	2436324.50	1958 May 1	Sergeant	-	11	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S62	2436332.15	1958 May 8 1536	Polaris FTV-1	-	1-204-12	0.000	USNSPO	MS	-	-	Test	TriCityHerald580508	Cleary95	-
1958-M05	2436332.50	1958 May 9	Sergeant	-	12	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-A46	2436349.50	1958 May 26	Bold Orion	1	Missile 1	0.000	AFBMD	TS	-	-	Test	Cleary95	Desind	-
1958-S82	2436361.04	1958 Jun 6 1300	Polaris FTV-1	-	1-204-13	0.000	USNSPO	MS	-	-	Reentry Test	Ulrich/Wire	Cleary95	-
1958-S87	2436379.04	1958 Jun 24 1300	Polaris FTV-1	-	1-204-14	0.000	USNSPO	MS	-	-	Reentry Test	StPetTimes580625	Cleary95	-
1958-A61	2436381.50	1958 Jun 27	Bold Orion	1	Missile 2	0.000	AFBMD	TF	U	-	Test	Cleary95	Desind	-
1958-A62	2436381.50	1958 Jun 27	Sergeant 5-stage	-	-	0.000	PARD	SS	-	LARC/	Reentry Test	RP-1028	-	-
1958-M06	2436384.50	1958 Jun 30	Sergeant	-	13	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S90	2436386.50	1958 Jul 2	X-17	-	Winder 1	0.000	TF88	TS	-	SAND/	Test	ARGUS	X-Planes	-
1958-A64	2436393.50	1958 Jul 9?	X-17	-	Winder 2	0.000	TF88	TF	U	SAND/	Test	ARGUS/Ulrich	X-Planes	-
1958-A65	2436401.50	1958 Jul 17?	X-17	-	Winder 3	0.000	TF88	TF	U	SAND/	Test	ARGUS/Ulrich	X-Planes	-
1958-S106	2436402.50	1958 Jul 18	Bold Orion	1	Missile 3?	0.000	AFBMD	TS	-	-	Test	Cleary95	-	-
1958-S108	2436408.50	1958 Jul 24	X-17	-	Winder 4	0.000	TF88	TS	-	SAND/	Test	ARGUS	X-Planes	-
1958-M07	2436442.50	1958 Aug 27	Sergeant	-	16	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-M08	2436442.50	1958 Aug 27	Sergeant	-	15	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S168	2436442.60	1958 Aug 27 0220	X-17	-	-	0.000	TF88	TS	-	TF88/AFSWP/	Nuclear Test	ARGUS	IGYBull27	-
1958-M09	2436443.50	1958 Aug 28	Sergeant	-	14	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S178	2436445.63	1958 Aug 30 0310	X-17	-	-	0.000	TF88	TS	-	TF88/AFSWP/	Nuclear Test	ARGUS	IGYBull27	-
1958-A108	2436451.50	1958 Sep 5	High Virgo WS199C	-	1	0.000	AFBMD	SF	U	LMSC/	Interceptor	B-58	-	-
1958-S194	2436453.42	1958 Sep 6 2205	X-17	-	-	0.000	TF88	TS	-	TF88/AFSWP/	Nuclear Test	ARGUS	IGYBull27	-
1958-S206	2436471.50	1958 Sep 25	Bold Orion	1	-	0.000	AFBMD	TS	-	-	Test	Cleary95	-	-
1958-S218	2436486.50	1958 Oct 10	Bold Orion	1	-	0.000	AFBMD	TS	-	-	Test	Cleary95	-	-
1958-M13	2436497.50	1958 Oct 21	Sergeant	-	18	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-M14	2436499.50	1958 Oct 23	Sergeant	-	17	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S258	2436524.50	1958 Nov 17	Bold Orion	1	Missile 5	0.000	AFBMD	TS	-	-	Test	Cleary95	-	-
1958-A147	2436527.50	1958 Nov 20	Sergeant 5-stage	-	-	0.000	PARD	SF	U	LARC/	Reentry Test	RP-1028	-	-
1958-S280	2436545.50	1958 Dec 8	Bold Orion	2	Missile 6?	0.000	AFBMD	TF	U	-	Test	Cleary95	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-M26	2436548.50	1958 Dec 11	Sergeant	-	19	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1958-S287	2436553.50	1958 Dec 16	Bold Orion	2	Missile 7	0.000	AFBMD	TS	-	-	Test	Cleary95	-	-
1958-M29	2436556.50	1958 Dec 19	High Virgo WS199C	-	2	0.000	AFBMD	TS	-	LMSC/	Test	B-58	-	-
1959-A30	2436616.38	1959 Feb 16 2103	Draco	-	S/N 1	0.000	AFBMD	MS	-	-	Test	Brulle2008	MR610730-36	-
1959-A47	2436643.50	1959 Mar 16	Draco	-	S/N 2	0.000	AFBMD	MS	-	-	Test	Quest6-1-45	-	-
1959-M04	2436650.50	1959 Mar 23	Sergeant	-	21	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1959-M05	2436652.50	1959 Mar 25	Sergeant	-	22	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1959-S42	2436662.50	1959 Apr 4	Bold Orion	2	-	0.000	AFBMD	TS	-	LMSC/	Interceptor	Cleary95	-	-
1959-A69	2436686.29	1959 Apr 27 1855	Draco	-	S/N 3	0.000	AFBMD	MF	U	-	Test	Ulrich/Wire	Quest6-1-45	Brulle2008
1959-M17	2436723.50	1959 Jun 4	High Virgo WS199C	-	3	0.000	AFBMD	TS	-	-	Interceptor	B-58	-	-
1959-S83	2436727.50	1959 Jun 8	Bold Orion	1	-	0.000	AFBMD	TS	-	-	Interceptor	Cleary95	-	-
1959-S92	2436739.15	1959 Jun 19 1530	Bold Orion	1	-	0.000	AFBMD	TS	-	-	Interceptor	Wire/Ulrich	Cleary95	EST
1959-M24	2436805.50	1959 Aug 25	Sergeant	-	23	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1959-S426	2436833.92	1959 Sep 22 1010?	High Virgo WS199C	-	4	0.000	AFBMD	TF	U	LMSC/	Interceptor	TLE	B-58	-
1959-S209	2436854.88	1959 Oct 13 0900	Bold Orion	2	-	0.000	AFBMD	TS	-	-	Interceptor	Wire	Cleary95	-
1959-M32	2436862.50	1959 Oct 21	Sergeant	-	26	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1959-M33	2436867.50	1959 Oct 26	Sergeant	-	27	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1959-S226	2436870.44	1959 Oct 28 2240	Shotput	-	1	0.000	LARCN	RS	-	LARC/O'Sullivan	SC Test	JBIS34-10	-	-
1959-M34	2436870.50	1959 Oct 29	Sergeant	-	28	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-A14	2436941.50	1960 Jan 8	Sergeant 5-stage	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-S13	2436950.44	1960 Jan 16 2235	Shotput	-	2	0.000	LARCN	RS	-	LARC/O'Sullivan	SC Test	JBIS34-10	-	-
1960-S41	2436992.47	1960 Feb 27 2320	Shotput	-	3	0.000	LARCN	RS	-	LARC/O'Sullivan	SC Test	MajorAct60	RP-1028	-
1960-A74	2437017.50	1960 Mar 24	Sergeant 5-stage	-	-	0.000	LARCN	AS	-	LARC/	Reentry Test	RP-1028	-	-
1960-S70	2437026.50	1960 Apr 1 2355	Shotput	-	4	0.000	LARCN	RS	-	LARC/O'Sullivan	SC Test	NASA-PR60-158	-	-
1960-M09	2437073.50	1960 May 19	Sergeant	-	30	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M10	2437074.50	1960 May 20	Sergeant	-	31	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M11	2437077.50	1960 May 23	Sergeant	-	33	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M12	2437085.50	1960 May 31	Sergeant	-	32	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-S115	2437085.50	1960 May 31	Shotput	-	5	0.000	LARCN	RS	-	LARC/O'Sullivan	SC Test	RP-1028	-	-
1960-M17	2437141.50	1960 Jul 26	Sergeant	-	36	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M22	2437158.50	1960 Aug 12	Sergeant	-	35	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M24	2437192.50	1960 Sep 15	Sergeant	-	34	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-S275	2437197.15	1960 Sep 19 1535	Journeyman	-	NASA 11.01GE	0.000	GSFC	HS	-	GSFC/FSU/Fichtel,Debusk	Cosmic rays/Bio	NASA-PR-60-259A	RP-1028,TN-D-412	-
1960-M25	2437198.50	1960 Sep 21	Sergeant	-	37	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-U02	2437199.04	1960 Sep 21 1301:53	Blue Scout Jr	-	D-1	0.023	AFBMD	RS	-	AFSWC/	Magnetospheric	Waldron	JBIS35-22	-
1960-M26	2437200.50	1960 Sep 23	Sergeant	-	39	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-S352	2437247.05	1960 Nov 8 1318	Blue Scout Jr	-	D-2	0.000	AFBMD	RF	S2	AFSWC/	Magnetospheric	Desind	JBIS35-22	-
1960-M31	2437269.50	1960 Dec 1	Sergeant	-	40	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M32	2437280.50	1960 Dec 12	Sergeant	-	42	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1960-M33	2437281.50	1960 Dec 13	Sergeant	-	41	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M01	2437309.50	1961 Jan 10	Sergeant	-	43	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M02	2437325.50	1961 Jan 26	Sergeant	-	45	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-S75	2437367.25	1961 Mar 8 1753	Astrobee 1500	?	AE16.305	0.000	AFCRL	SS	-	AFCRL/Gustafson,Swenson	Ionos	WDCRF	-	-
1961-M03	2437368.50	1961 Mar 10	Sergeant	-	49	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M11	2437423.50	1961 May 4	Sergeant	-	50	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M12	2437434.50	1961 May 15	Sergeant	-	54	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M13	2437435.50	1961 May 16	Sergeant	-	53	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M14	2437436.50	1961 May 17	Sergeant	-	51	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-A183	2437513.35	1961 Aug 1 2018	Astrobee 1500	-	AA16.304	0.000	AFCRL	HF	U	AFCRL/Gustafson	Test/Geodetic	WDCRF	MR620312-24	-
1961-U01	2437529.10	1961 Aug 17 1429	Blue Scout Jr	-	O-1	0.022	AFSSD	RS	-	AFSWC/?	Magnetospheric	OaklandTrib610817	Cleary95	-
1961-S260	2437542.02	1961 Aug 30 1234	RAM A	-	RAM A-1	0.000	LARCN	SS	-	LARC/	Reentry Test	TM-X-760	TN-D-1611	-
1961-M21	2437562.50	1961 Sep 20	Sergeant	-	55	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M22	2437568.50	1961 Sep 26	Sergeant	-	56	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M23	2437570.50	1961 Sep 28	Sergeant	-	58	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-M24	2437570.50	1961 Sep 28	Sergeant	-	59	0.000	ARGMA	MS	-	-	OT?	WSMR	-	-
1961-S378	2437619.07	1961 Nov 15 1343	Journeyman	-	NASA 11.04GB	0.000	GSFC	HS	-	GSFC/FSU/Campbell,DeBusk	Biology ARC/	WDCRF	-	-
1961-S383	2437622.07	1961 Nov 18 1342	Journeyman	-	NASA 11.05GB	0.000	GSFC	HS	-	GSFC/Campbell,Young	Biology	WDCRF	-	-
1961-U04	2437637.67	1961 Dec 4 0400:16	Blue Scout Jr	-	O-2	0.023	AFSSD	RS	-	AFSWC/?	Magnetospheric	VCR	MR611211-10	-
1961-S415	2437641.84	1961 Dec 8 0815	Astrobee 1500	-	-	0.000	AFCRL	HS	-	AFCRL/Swenson	Geodetic	Wire	AFCRL	-
1961-S425	2437647.80	1961 Dec 14 0709:48	Trailblazer 2	-	TB IIa	0.000	LARCN	SS	-	LARC/	Reentry Test	TN-D-2053	TN-D-3214/NRL-5824	-
1962-S46	2437717.02	1962 Feb 21 1230	RAM A	-	RAM A-2	0.000	LARCN	SS	-	LARC/	Reentry Test	TM-X-907	-	-
1962-U02	2437790.74	1962 May 6 0541:00	Trailblazer 2	M	TB IIb	0.052	LARCN?	SS	-	AFCRL/Soberman	Reentry Test	SAO-SR317	TN-D-2347	-
1962-S152	2437816.21	1962 May 31 1708:44	Blue Scout Jr SLV-1C	-	102	0.000	AFSSD	TS	-	-	Comms	VCR	-	-
1962-M12	2437845.50	1962 Jul	Sergeant	-	-	0.000	AOMC	MS	-	-	OT?	WSMR	-	-
1962-M13	2437845.50	1962 Jul	Sergeant	-	-	0.000	AOMC	MS	-	-	OT?	WSMR	-	-
1962-M14	2437865.50	1962 Jul 20	Sergeant	-	-	0.000	AOMC	MS	-	-	OT?	WSMR	-	-
1962-S584	2437854.87	1962 Jul 9 0851:39	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFSWC/Whitaker	Diagnostic	AD-A995428	-	-
1962-S234	2437854.87	1962 Jul 9 0852:09	Journeyman	-	-	0.000	SAND	SF	U	LASL/Hoerlin	Magnetospheric?	AD-A955411	VAFB	-
1962-A106	2437854.87	1962 Jul 9 0852:19	Astrobee 1500	-	-	0.000	SAND	SF	U	LASL/Hoerlin	Magnetospheric?	AD-A955411/VAFB	TM-X-63174	-
1962-S585	2437854.87	1962 Jul 9 0852:27	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFSWC/Whitaker	Diagnostic	AD-A995428	-	-
1962-S586	2437854.87	1962 Jul 9 0855:43	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFSWC/Whitaker	Diagnostic	AD-A995428	-	-
1962-S587	2437854.87	1962 Jul 9 0857:29	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFSWC/Whitaker	Diagnostic	AD-A995428	-	-
1962-S588	2437854.87	1962 Jul 9 0857:49	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFSWC/Whitaker	Diagnostic	AD-A995428	-	-
1962-S257	2437870.23	1962 Jul 24 1729:12	Blue Scout Jr SLV-1C	-	101	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1962-M19	2437907.50	1962 Sep	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-M20	2437907.50	1962 Sep	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-M21	2437907.50	1962 Sep	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-A156	2437928.50	1962 Sep 21	RAM B	-	RAM B-1	0.000	LARCN	SF	S2	LARC/	Reentry Test	SP-4012	-	-
1962-S639	2437929.50	1962 Sep 22	Strypi	-	Cert Round	0.000	SAND	SS	-	SAND/	Test	SAND63	-	Sep22/LocalT
1962-S343	2437929.78	1962 Sep 22 0645	Journeyman	-	NASA 11.02UR	0.000	GSFC	HS	-	UMI/Coates,Schulte	RF Astron	WDCRF	RP-1028	-
1962-S640	2437937.50	1962 Sep 30	Strypi	-	Test Round	0.000	SAND	SS	-	SAND/	Test	SAND63	-	-
1962-S641	2437937.50	1962 Oct	Strypi	-	Test Round	0.000	SAND	SS	-	SAND/	Test	SAND63	-	-
1962-M24	2437937.50	1962 Oct	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-M25	2437937.50	1962 Oct	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-S406	2437957.85	1962 Oct 20 0830	Strypi	-	-	0.000	AEC	TS	-	AEC/	Nuclear Test	DOMINIC	-	-
1962-S589	2437957.85	1962 Oct 20 0831?	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFWL/	Diagnostic	AD-A995428	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-S590	2437957.86	1962 Oct 20 0832?	Swik A	-	Project 6.7 SWIK	0.000	DASA	SS	-	AFWL/	Diagnostic	AD-A995428	-	-
1962-S677	2437959.50	1962 Oct 22	Trailblazer 2	-	TB IIc	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	-	-
1962-M27	2437961.50	1962 Oct 24	Sergeant	-	-	0.000	MICOM	MS	-	-	Test	MR621029-5	-	-
1962-M30	2437970.50	1962 Nov 2	Sergeant	-	-	0.000	MICOM	MS	-	-	Test	MR621112-10	-	-
1962-S485	2437990.26	1962 Nov 21 1820:35	Blue Scout Jr SLV-1C	-	201	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1962-M35	2437998.50	1962 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-M36	2437998.50	1962 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-M37	2437998.50	1962 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1962-A208	2437998.50	1962 Dec	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1962-S573	2438017.50	1962 Dec 19	Blue Scout Jr SLV-1B(m)	-	21-1	0.000	AFSSD	RS	-	EOS/AFAPL/Davis.J	Tech	JPP17,517	-	-
1963-M02	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M03	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M04	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M05	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M06	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M07	2438029.50	1963 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-A08	2438036.50	1963 Jan 7	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-M10	2438060.50	1963 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M11	2438060.50	1963 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M12	2438060.50	1963 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-S32	2438062.79	1963 Feb 2 0656:29	Blue Scout Jr SLV-1C	-	202	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1963-M09	2438065.50	1963 Feb 5	Sergeant	-	C-11	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-S43	2438072.57	1963 Feb 12 0147	Journeyman	-	NASA 11.06UE	0.000	GSFC	HS	-	UMN/Winckler,Cline	Magnetospheric	WDCRF	-	-
1963-M14	2438079.50	1963 Feb 19	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT?	WSMR	-	-
1963-M13	2438079.50	1963 Feb 19	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT?	WSMR	-	-
1963-M18	2438088.50	1963 Mar	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-S96	2438102.54	1963 Mar 14 0101:49	Blue Scout Jr SLV-1C	-	203	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1963-M19	2438106.50	1963 Mar 18	Sergeant	-	-	0.000	MICOM	MS	-	-	Op Test	MR630401-11	-	-
1963-M20	2438108.50	1963 Mar 20	Sergeant	-	-	0.000	MICOM	MS	-	-	Op Test	MR630401-11	-	-
1963-M21	2438109.50	1963 Mar 21	Sergeant	-	-	0.000	MICOM	MS	-	-	Op Test	MR630401-11	-	-
1963-S08	2438111.50	1963 Mar 23	Trailblazer 2	-	TB IId	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	TN-D-1866	-
1963-M24	2438127.98	1963 Apr 8 1126	Astrobee 1500	-	NASA 16.01GT	0.000	GSFC	HF	U	GSFC/Sorgnit	Test	WDCRF	TM-X-63174	-
1963-S165	2438140.59	1963 Apr 21 0216	Shotput	-	6	0.000	LARCN	RS	-	CRA/	Payload Test	WI-PR63-41	SP-4004	-
1963-M56	2438163.23	1963 May 13 1725	Sergeant	-	-	0.000	MICOM	MS	-	-	Test	Wire/Ulrich	-	-
1963-M57	2438164.50	1963 May 15	Sergeant	-	-	0.000	MICOM	MS	-	-	Test	Wire	-	-
1963-M26	2438165.50	1963 May 16	Sergeant	-	-	0.000	MICOM	MS	-	-	Test	Wire	-	-
1963-S207	2438167.46	1963 May 17 2300:18	Blue Scout Jr SLV-1C	-	301	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1963-S682	2438173.50	1963 May 24	Trailblazer 2	-	TB IIe	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	-	-
1963-S241	2438178.29	1963 May 28 1859:09	RAM B	-	RAM B-2	0.000	LARCN	SF	S2	LARC/	Reentry Test	TN-D-2437	SP-4012	-
1963-A84	2438180.50	1963 Jun	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-A85	2438180.50	1963 Jun	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-M30	2438185.50	1963 Jun 5	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	JFK visit
1963-M31	2438205.50	1963 Jun 25	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT?	WSMR	-	-
1963-M32	2438206.50	1963 Jun 26	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT?	WSMR	-	-
1963-A97	2438210.50	1963 Jul	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-A98	2438210.50	1963 Jul	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-A99	2438210.50	1963 Jul	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-M45	2438236.50	1963 Jul 26	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-M46	2438236.50	1963 Jul 26	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-U01	2438241.18	1963 Jul 30 1616:08	Blue Scout Jr	-	22-1/AD-622	0.033	AFCRL	RS	-	HCO/AFCRL/Huguenin	Plasma/RF Astron	Papagiannis	-	-
1963-S376	2438244.40	1963 Aug 2 2143	Shotput	-	7	0.000	LARCN	RS	-	CRA/Broglio	Payload Test	SR5,1124	WI-PR63-75	-
1963-A133	2438302.50	1963 Oct	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-M47	2438306.50	1963 Oct 4	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-A158	2438333.50	1963 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-A159	2438333.50	1963 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-A160	2438333.50	1963 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1963-M50	2438363.50	1963 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1963-S605	2438381.22	1963 Dec 17 1717:34	Blue Scout Jr SLV-1C	-	302	0.000	AFSSD	TS	-	SAC/	Comms	VCR	-	-
1964-A01	2438394.50	1964 Jan	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-M154	2438394.50	1964 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	Ulrich/Wire	-	-
1964-M155	2438394.50	1964 Jan	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	Ulrich/Wire	-	-
1964-M03	2438425.50	1964 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-A20	2438436.25	1964 Feb 10 1802	Athena	-	A001 (Colo.)	0.000	AFBSD	MF	U	-	Reentry Test	UPI/Ulrich	SAMSO-LL	-
1964-M04	2438442.50	1964 Feb 17	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-M06	2438467.50	1964 Mar 13	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	LawtonCon640319	-	-
1964-S146	2438467.99	1964 Mar 13 1140:56	Blue Scout Jr	-	22-2 (OAR Probe 2)	0.000	AFCRL	RF	S4	AFCRL/Hutchinson	Magnetospheric AD-623	AP	SP-4005	-
1964-S827	2438470.50	1964 Mar 16	Trailblazer 2	-	TB IIf	0.000	LARCN	SF	U	LARC/	Reentry Test	Deley67	-	-
1964-S197	2438496.24	1964 Apr 10 1740	RAM B	-	RAM B-3	0.000	LARCN	SS	-	LARC/Sims	Reentry Test	NASA-PR	SP-4012	-
1964-A78	2438544.47	1964 May 28 2315	Athena	-	A002 (Shiprock)	0.000	AFBSD	MF	U	-	Reentry Test	MoabTIndep640604	SAMSO-LL	-
1964-A79	2438546.50	1964 Jun	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-A80	2438546.50	1964 Jun	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-M12	2438555.50	1964 Jun 9	Sergeant	-	099	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-M13	2438555.50	1964 Jun 9	Sergeant	-	100	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-M11	2438556.50	1964 Jun 10	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-A96	2438576.50	1964 Jul	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-A97	2438576.50	1964 Jul	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-S335	2438585.39	1964 Jul 8 2123	Athena	-	A003	0.000	AFBSD	MS	-	-	Reentry Test	ElPasoTimes640709	SAMSO-LL	-
1964-A98	2438592.50	1964 Jul 16	ARPAT	-	-	0.000	ARPA	MS	-	-	Test	WindSand640807	-	-
1964-S448	2438636.90	1964 Aug 29 0936:53	Blue Scout Jr SLV-1B(m)	-	21-2	0.000	AFSSD	RS	-	EOS/AFAPL/Davis.J	Tech	VCR	-	-
1964-S486	2438666.59	1964 Sep 28 0215	Athena	-	C001	0.000	AFBSD	MF	U	-	Reentry Test	MoabTIndep641001	SAMSO-LL	-
1964-M21	2438668.50	1964 Oct	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-M22	2438668.50	1964 Oct	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-M23	2438668.50	1964 Oct	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-A145	2438668.50	1964 Oct	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-A148	2438672.83	1964 Oct 4 0800	Athena	-	D001	0.000	AFBSD	MF	U	-	Reentry Test	Wire/Ulrich	MoabTIndep641008	-
1964-S534	2438690.32	1964 Oct 21 1944	Astrobee 1500	-	NASA 16.02GT	0.000	GSFC	HS	-	GSFC/Sorgnit	Test	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S828	2438699.50	1964 Oct 31	Trailblazer 2	-	TB IIg	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	-	-
1964-A165	2438699.50	1964 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-A166	2438699.50	1964 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-A167	2438699.50	1964 Nov	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1964-S598	2438706.64	1964 Nov 7 0321	Athena	-	C004	0.000	AFBSD	MS	-	-	Reentry Test	SaltLakeTrib641107	GrandJuncSent641107	-
1964-A176	2438727.64	1964 Nov 28 0323	Athena	-	C003	0.000	AFBSD	MF	U	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1964-S670	2438734.69	1964 Dec 5 0430	Athena	-	C002	0.000	AFBSD	MS	-	-	Reentry Test	ARCNews1-11	SAMSO-LL	-
1964-M28	2438739.50	1964 Dec 10	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1964-S696	2438751.67	1964 Dec 22 0400?	Blue Scout Jr SLV-1B(m)	-	21-3	0.000	AFSSD	RF	S3	EOS/AFAPL/Davis.J	Tech	UPI	JPP17,517	-
1965-A05	2438760.50	1965 Jan	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1965-S38	2438776.72	1965 Jan 16 0513	Athena	-	C006	0.000	AFBSD	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1965-S54	2438789.04	1965 Jan 28 1251:10	Blue Scout Jr	-	22-3 (OAR Probe 3)	0.000	AFCRL	RF	U	AFCRL/Hutchinson	Magnetospheric	UPI	MR650208-8	-
1965-A18	2438791.50	1965 Feb	ARPAT	-	-	0.000	ARPA	MU	-	-	Test	WSMR	-	-
1965-M01	2438791.50	1965 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-M02	2438791.50	1965 Feb	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-A20	2438793.77	1965 Feb 2 0630	Athena	-	D003	0.000	AFBSD	MF	U	-	Reentry Test	DeseretNews650203	SAMSO-LL	-
1965-A26	2438803.50	1965 Feb 12	Athena	-	D002	0.000	AFBSD	MF	U	-	Reentry Test	SAMSO-LL	-	-
1965-A30	2438807.74	1965 Feb 16 0551	Athena	-	D008	0.000	AFBSD	MF	U	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1965-M04	2438819.50	1965 Mar	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-M05	2438819.50	1965 Mar	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-U05	2438850.17	1965 Mar 30 1609:31	Blue Scout Jr	-	22-4 (OAR Probe 4)	0.031	AFCRL	RS	-	AFCRL/ASE/Paolini,Katz	Magnetospheric	nsf-koenn	WDCRF	-
1965-S822	2438851.50	1965 Apr 1	Trailblazer 2	-	TB IIh	0.000	LARCN	SS	-	LARC/	Reentry Test	Deley67	-	-
1965-U06	2438860.26	1965 Apr 9 1810:37	Blue Scout Jr	-	22-9 (OAR Probe 5)	0.023	AFCRL	RS	-	AFWL/	Magnetospheric	Desind	-	-
1965-S235	2438865.11	1965 Apr 14 1439	Journeyman	-	NASA 11.07UE	0.000	GSFC	HS	-	UMN/Winckler	Plasma	WDCRF	-	-
1965-S270	2438884.50	1965 May 4	Trailblazer 2	-	D58-3539	0.000	LARCN	SS	-	LARC/	Reentry test	TM-X-1474	TN-D-4937	-
1965-U07	2438893.17	1965 May 12 1602:35	Blue Scout Jr	-	22-8 (OAR Probe 6)	0.031	AFCRL	RS	-	AFCRL/Katz	Magnetospheric	nsf-koenn	Desind	-
1965-M13	2438911.50	1965 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-M14	2438911.50	1965 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-M15	2438911.50	1965 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1965-U08	2438921.18	1965 Jun 9 1626:15	Blue Scout Jr	-	22-5 (OAR Probe 7)	0.024	AFCRL	RS	-	AFWL/	Magnetospheric	nsf-koenn	Cleary95	-
1965-M86	2438927.50	1965 Jun 16	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1965-S369	2438933.68	1965 Jun 22 0415	Athena	-	B002	0.000	AFBSD	MF	U	-	Reentry Test	MoabTIndep650624	SAMSO-LL	-
1965-S371	2438933.82	1965 Jun 22 0737	Athena	-	B001	0.000	AFBSD	MS	-	-	Reentry Test	MoabTIndep650624	SAMSO-LL	-
1965-S783	2438938.73	1965 Jun 27 0524:22	Trailblazer 2	-	No. 40	0.000	LARCN	SS	-	LARC/SAO/	Reentry Test	SAOLab	-	-
1965-S412	2438941.73	1965 Jun 30 0533	Journeyman	-	NASA 11.03UR	0.000	GSFC	HS	-	UMI/Schulte,Lindsay	RF Astron	WDCRF	CR-74173	-
1965-S425	2438958.50	1965 Jul 17?	Athena	-	B003	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-A104	2438961.50	1965 Jul 20	Athena	-	C007	0.000	AFBSD	MF	U	-	Reentry Test	SAMSO-LL	-	-
1965-S434	2438968.67	1965 Jul 27 0400?	Athena	-	C011	0.000	AFBSD	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1965-A112	2438968.80	1965 Jul 27 0715	Athena	-	D005	0.000	AFBSD	MF	U	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1965-S439	2438972.50	1965 Jul 31	Athena	-	D004	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S440	2438975.70	1965 Aug 3 0447:00	Athena	-	C014	0.000	AFBSD	MS	-	-	Reentry Test	NRL-FR6507	SAMSO-LL	-
1965-A118	2438976.50	1965 Aug 4	Sergeant	-	-	0.000	USNSPO	MS	-	-	Tech	MR650816-10	-	-
1965-S446	2438980.50	1965 Aug 8	Athena	-	C005	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	SaltLakeTrib650808	-
1965-S447	2438980.50	1965 Aug 8	Athena	-	C009	0.000	AFBSD	MF	U	-	Reentry Test	SAMSO-LL	MR650816-10	-
1965-S472	2438993.50	1965 Aug 21?	Athena	-	C008	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-A121	2438993.50	1965 Aug 21?	Athena	-	D009	0.000	AFBSD	MF	U	-	Reentry Test	SAMSO-LL	-	-
1965-S482	2438999.50	1965 Aug 27	Athena	-	D012	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-M87	2438972.50	1965 Aug	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1965-M88	2439005.50	1965 Sep 2	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1965-S493	2439017.74	1965 Sep 14 0545	Athena	-	B004	0.000	AFBSD	MS	-	-	Reentry Test	MoabTIndep650916	SAMSO-LL	-
1965-S494	2439017.82	1965 Sep 14 0745	Athena	-	D033	0.000	AFBSD	MS	-	-	Reentry Test	MoabTIndep650916	SAMSO-LL	-
1965-S502	2439024.50	1965 Sep 21?	Athena	-	D006	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S515	2439030.50	1965 Sep 27	Athena	-	C012	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S534	2439034.50	1965 Oct 1	Athena	-	B006	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S548	2439045.50	1965 Oct 12	Athena	-	C016	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S600	2439070.76	1965 Nov 6 0615?	Athena	-	D007	0.000	AFBSD	MS	-	-	Reentry Test	Ulrich	SAMSO-LL	-
1965-A165	2439086.50	1965 Nov 22	Athena	-	B007	0.000	AFBSD	MF	U	-	Reentry Test	SAMSO-LL	-	-
1965-S663	2439102.50	1965 Dec 8?	Athena	-	C017	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1965-S671	2439104.50	1965 Dec 10	Athena	-	C023	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S72	2439146.50	1966 Jan 21	Athena	-	C025	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S94	2439160.50	1966 Feb 4?	Athena	-	C030	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S702	2439170.50	1966 Feb 14	Trailblazer 2	-	-	0.000	AFAL	SS	-	AFAL/	Reentry Test	Rothman67	SP-252	-
1966-S114	2439173.50	1966 Feb 17	Athena	-	D014	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-U05	2439202.55	1966 Mar 18 0115	Trailblazer 2	M	Meteor 8	0.000	LARCN	SS	-	LARC/Ayers	Reentry Test	SAO-SR317	-	-
1966-S204	2439216.50	1966 Apr 1	Athena	-	B009	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S203	2439216.50	1966 Apr 1	Athena	-	D019	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S260	2439258.50	1966 May 13?	Athena	-	D018	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S284	2439272.50	1966 May 27	Athena	-	D031	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S283	2439272.50	1966 May 27	Athena	-	C019	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-M21	2439276.50	1966 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1966-M22	2439276.50	1966 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1966-S300	2439284.16	1966 Jun 7 1557	WASP	-	-	0.000	LERC	SS	-	LERC/Gold	Tech	WI-PR-66-34	TN-D-3985	-
1966-A74	2439286.75	1966 Jun 10 0600?	Athena	-	D021	0.000	AFBSD	MF	U	-	Reentry Test	Ulrich	SAMSO-LL	-
1966-S308	2439286.88	1966 Jun 10 0900	Athena	-	D023	0.000	AFBSD	MS	-	-	Reentry Test	Ulrich	SAMSO-LL	-
1966-S331	2439299.50	1966 Jun 23	Athena	-	D034	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S370	2439321.35	1966 Jul 14 2023	Athena	-	C015	0.000	AFBSD	MS	-	-	Reentry Test	wsmr-history.org	SAMSO-LL	-
1966-M145	2439351.50	1966 Aug 14	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1966-S444	2439353.76	1966 Aug 16 0618	Scanner	-	-	0.000	LARCN	SS	-	LARC/Walsh	Aeronomy	WI-PR-66-43	TN-D-4742	-
1966-S447	2439355.50	1966 Aug 18	Athena	-	B011	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S448	2439356.50	1966 Aug 19	Athena	-	E001	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S803	2439360.12	1966 Aug 22 1500	Castor Lance	-	ADDPEP TB-4	0.000	AFFDL	SS	-	-	Test	AFFDL-TR-67-25	-	-
1966-S474	2439368.50	1966 Sep	Strypi IV	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	SRctCon6	-	-
1966-S476	2439369.50	1966 Sep 1	Athena	-	D029	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S478	2439370.50	1966 Sep 2	Athena	-	D025	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S501	2439391.74	1966 Sep 23 0550?	Athena	-	B015	0.000	AFBSD	MS	-	-	Reentry Test	Ulrich	SAMSO-LL	-
1966-S531	2439405.50	1966 Oct 7?	Athena	-	D024	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S533	2439405.50	1966 Oct 7	Athena	-	D049	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S543	2439412.50	1966 Oct 14	Athena	-	D036	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S542	2439412.50	1966 Oct 14	Athena	-	D035	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S563	2439424.50	1966 Oct 26	Trailblazer 2	-	-	0.000	AFAL	SS	-	AFAL/OSU/	Reentry Test	MR661107-10	-	-
1966-S589	2439436.50	1966 Nov 7	Athena	-	D039	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S588	2439436.50	1966 Nov 7	Athena	-	D041	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S593	2439440.60	1966 Nov 11 0222	Athena	-	D020	0.000	AFBSD	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1966-S592	2439440.71	1966 Nov 11 0507	Athena	-	B017	0.000	AFBSD	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1966-S595	2439440.80	1966 Nov 11 0706	Athena	-	D047	0.000	AFBSD	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1966-S676	2439469.61	1966 Dec 10 0242	Scanner	-	-	0.000	LARCN	SS	-	LARC/Walsh	Aeronomy	TN-D-4905	TN-D-4742	-
1966-S688	2439474.50	1966 Dec 15	Athena	-	D038	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1966-S692	2439475.50	1966 Dec 16	Athena	-	D042	0.000	AFBSD	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-M05	2439502.35	1967 Jan 11 2028	Castor	-	IFTV	0.000	AFSC	SS	-	AFAPL/GASL/	Tech	Ulrich/AP	VAFB	Hallion2
1967-A58	2439531.50	1967 Feb 10?	Athena	-	B045	0.000	SAMSO	MF	U	-	Reentry Test	SAMSO-LL	-	-
1967-U01	2439535.74	1967 Feb 14 0552	Trailblazer 2	M	Meteor 10	0.000	LARCN	SS	-	LARC/Ayers	Reentry Test	SAO-SR317	-	-
1967-S126	2439544.50	1967 Feb 23	Athena	-	D037	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S129	2439546.61	1967 Feb 25 0235	Astrobee 1500	-	NASA 16.05US	0.000	GSFC	HS	-	HCO/Huegenin	Solar RF?	WDCRF	SP-4008	-
1967-S134	2439552.50	1967 Mar 3?	Athena	-	C048	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S158	2439565.50	1967 Mar 16	Athena	-	B012	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S162	2439566.50	1967 Mar 17	Athena	-	D051	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S161	2439566.94	1967 Mar 17 1030	Athena	-	D040	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1967-S178	2439579.50	1967 Mar 30	Athena	-	D046	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S177	2439579.50	1967 Mar 30	Athena	-	C049	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S183	2439580.50	1967 Mar 31	Athena	-	E002	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S195	2439587.50	1967 Apr 7?	Athena	-	D043	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S194	2439587.50	1967 Apr 7?	Athena	-	B031	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S207	2439592.50	1967 Apr 12	Athena	-	B020	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-A75	2439614.50	1967 May 4	Athena	-	D030	0.000	SAMSO	MF	U	-	Reentry Test	SAMSO-LL	-	-
1967-S245	2439615.50	1967 May 5	Athena	-	B033	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S244	2439615.50	1967 May 5	Athena	-	B032	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-M11	2439641.50	1967 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1967-M12	2439641.50	1967 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1967-S280	2439643.83	1967 Jun 2 0800?	Athena	-	B034	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich	SAMSO-LL	-
1967-S296	2439649.50	1967 Jun 8	Athena	-	D053	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S325	2439660.36	1967 Jun 18 2032	Trailblazer 2	-	AD21.860	0.000	AFCRL	SS	-	AFCRL/Poirier,Rotman	Reentry Test	AFCRL/WDCRF	-	Jun28/AFCRL67
1967-S347	2439693.50	1967 Jul 22	Athena	-	D050	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S391	2439720.50	1967 Aug 18	Athena	-	E003	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S392	2439720.50	1967 Aug 18	Athena	-	D055	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-A110	2439726.50	1967 Aug 24	Athena	-	D059	0.000	SAMSO	MF	U	-	Reentry Test	SAMSO-LL	-	-
1967-S394	2439727.50	1967 Aug 25	Athena	-	D048	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S406	2439732.50	1967 Aug 30	Astrobee 1500	-	NASA 16.03GR	0.000	GSFC	HS	-	GSFC/Stone	RF Astron	WDCRF	-	-
1967-S428	2439741.82	1967 Sep 8 0736	Athena	-	D057	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1967-S437	2439747.50	1967 Sep 14	Athena	-	D056	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S458	2439762.66	1967 Sep 29 0345	Athena	-	C051	0.000	SAMSO	MS	-	-	Reentry Test	DailySentinel670929	-	-
1967-S459	2439762.74	1967 Sep 29 0545	Athena	-	D066	0.000	SAMSO	MS	-	-	Reentry Test	DailySentinel670929	-	-
1967-S460	2439762.81	1967 Sep 29 0730	Athena	-	C050 [090]	0.000	SAMSO	MS	-	-	Reentry Test	DailySentinel670929	-	-
1967-S485	2439775.50	1967 Oct 12	Athena	-	B030 [091]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S602	2439790.31	1967 Oct 26 1921:55	Trailblazer 2	-	-	0.000	AFAL	SS	-	AFAL/OSU/	Reentry Test	Caldecott+68	SP-252	-
1967-S537	2439811.50	1967 Nov 17?	Athena	-	D063 [092]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-S555	2439824.50	1967 Nov 30	Athena	-	B023 [093]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1967-M19	2439824.50	1967 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1967-M20	2439824.50	1967 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-S79	2439866.50	1968 Jan 11	Athena	-	B022 [094]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1968-S87	2439873.50	1968 Jan 18	Athena	-	B039 [095]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1968-S105	2439887.50	1968 Feb 1	Athena	-	B037 [096]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1968-M65	2439916.50	1968 Mar 1	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1968-M66	2439915.50	1968 Mar	Sergeant	-	-	0.000	3OFA2	MS	-	-	OT	Ulrich	-	-
1968-S200	2439936.50	1968 Mar 21	Athena	-	B046 [097]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1968-S221	2439944.62	1968 Mar 29 0300?	Athena	-	D068 [098]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1968-S220	2439944.68	1968 Mar 29 0424	Athena	-	B044 [099]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1968-S226	2439944.81	1968 Mar 29 0724	Athena	-	V114C [100]	0.000	SAMSO	MS	-	-	Reentry Test	WSMR-AR	SAMSO-LL	-
1968-S271	2439967.23	1968 Apr 20 1738	Astrobee 1500	-	NASA 16.04UI	0.000	GSFC	HS	-	UMN/Kellogg,P.	Ionospheric	WDCRF	-	-
1968-M07	2439976.50	1968 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-M63	2439978.50	1968 May 2	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1968-A76	2439978.50	1968 May 2	Athena	-	V116B [101]	0.000	SAMSO	MF	U	-	Reentry Test	SAMSO-LL	-	-
1968-A78	2439993.78	1968 May 17 0650?	Athena	-	D061 [102]	0.000	SAMSO	MF	U	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1968-M12	2440007.50	1968 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-M13	2440007.50	1968 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-M64	2440017.50	1968 Jun 10	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1968-A87	2440056.50	1968 Jul 19?	Athena	-	B040 [103]	0.000	SAMSO	MF	U	-	Reentry Test	SAMSO-LL	-	-
1968-S561	2440160.50	1968 Nov	Strypi VI	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	SRctCon6	-	-
1968-S662	2440188.50	1968 Nov 28	Trailblazer 2	-	-	0.000	AFAL	SS	-	AFAL/OSU/	Reentry Test	Powell25	SP-252	-
1968-S582	2440175.73	1968 Nov 15 0530?	Athena	-	V120B [104]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1968-S583	2440175.79	1968 Nov 15 0700?	Athena	-	D062 [105]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1968-M23	2440182.50	1968 Nov 22	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-M27	2440190.50	1968 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1968-S628	2440196.61	1968 Dec 6 0240	Athena	-	D045 [106]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/AP	SAMSO-LL	-
1968-S627	2440196.79	1968 Dec 6 0700?	Athena	-	V137D [107]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/AP	SAMSO-LL	-
1968-S631	2440196.86	1968 Dec 6 0835	Athena	-	V136D [108]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/AP	SAMSO-LL	-
1968-S645	2440203.59	1968 Dec 13 0210	Athena	-	V118B [109]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTIndep681219	SAMSO-LL	-
1969-S23	2440221.50	1969?	Strypi VI	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	SRctCon6	-	-
1969-A18	2440238.63	1969 Jan 17 0305	Athena	-	V145D [110?]	0.000	SAMSO	MF	U	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1969-S70	2440238.50	1969 Jan 17	Athena	-	V140D [111?]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	After V145D?
1969-S80	2440245.58	1969 Jan 24 0200?	Athena	-	B038 [112?]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1969-S131	2440266.64	1969 Feb 14 0320	Athena	-	B043 [113?]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1969-S223	2440308.71	1969 Mar 28 0500	Athena	-	V138D [114?]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-M23	2440345.50	1969 May 4	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1969-M24	2440345.50	1969 May 4	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1969-S356	2440378.70	1969 Jun 6 0455	Athena	-	B036 [115]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1969-S358	2440378.87	1969 Jun 6 0855	Athena	-	V132D [116]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1969-S368	2440390.58	1969 Jun 18 0156	Trailblazer 2	-	CRL AD21.861	0.000	AFCRL	SS	-	AFCRL/Rotman	Reentry Test	AFCRL	-	-
1969-S372	2440392.83	1969 Jun 20 0802	Athena	-	V119D [117]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1969-S381	2440399.50	1969 Jun 27?	Athena	-	V142D [118]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1969-M92	2440464.50	1969 Aug 31	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1969-S489	2440474.76	1969 Sep 10 0615	Athena	-	V147D [119]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1969-S520	2440490.50	1969 Sep 26?	Athena	-	V130D [120]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	-	-
1969-S549	2440510.45	1969 Oct 15 2243:00	Astrobee 1500	-	NASA 16.06GR	0.000	GSFC	HS	-	GSFC/Weber	Radio Astron	JCM	-	-
1969-M34	2440555.50	1969 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1970-S324	2440700.82	1970 Apr 24 0744	Athena	-	V141D [121]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1970-S689	2440732.83	1970 May 26 0800?	Strypi	-	Sandia 428-12	0.000	SAND	SS	-	SAND/	Tech	Atom7,9	ElecPhen3,305	-
1970-S749	2440733.50	1970 May 27	Strypi VI	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	SW2001	-	-
1970-S382	2440740.50	1970 Jun 3	Strypi VI	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	SW2001	-	-
1970-M22	2440737.50	1970 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1970-M23	2440737.50	1970 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1970-S690	2440743.83	1970 Jun 6 0800?	Strypi	-	Sandia 428-	0.000	SAND	SS	-	SAND/	Tech	Atom7,9	ElecPhen3,305	-
1970-M38	2440829.50	1970 Sep	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1970-S427	2440778.86	1970 Jul 11 0840	Athena	-	V123D [122]	0.000	SAMSO	MF	U	-	Reentry Test	SaltLakeTrib700712	(MexicoImpact)	-
1970-S563	2440869.25	1970 Oct 9 1757	Castor	2R	-	0.000	LARCN	SS	-	LARC/Pride	Reentry Test	FDC/Ulrich	USCOSPAR71	-
1970-S619	2440915.50	1970 Nov 24 2356	Trailblazer 2	-	CRL AD21.862	0.000	AFCRL	SS	-	AFCRL/Rotman,Maloney	Reentry Test	WI-PR70-21	AFCRL	-
1970-S626	2440915.64	1970 Nov 25 0317	Blue Scout Jr SLV-1C	?	NRL NB22.208	0.000	NRL	RS	-	NRL/Carruthers,Weller	UV Astron	SP-4015	BAAS5,38	-
1970-M28	2440920.50	1970 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1971-S54	2440960.42	1971 Jan 8 2211	Athena	-	V144D [123]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTIndep710114	SAMSO-LL	-
1971-S105	2440981.49	1971 Jan 29 2352	Strypi	-	SECEDE R16	0.000	SAND	SS	-	UAF/LASL/Davis	Aeron	PlanSpaceSci22,67	WDCRF	-
1971-S153	2441022.79	1971 Mar 12 0700?	Athena	-	B035 [124]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1971-S236	2441060.77	1971 Apr 19 0630	Athena	-	V127D [126]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTIndep710422	SAMSO-LL	-
1971-M10	2441071.50	1971 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1971-S281	2441085.50	1971 May 14	Athena	-	V146D [127]	0.000	SAMSO	MS	-	-	Reentry Test	SAMSO-LL	MoabTIndep710513	-
1971-S320	2441106.74	1971 Jun 4 0543	Athena	-	B041 [128]	0.000	SAMSO	MS	-	-	Reentry Test	Ulrich/Wire	SAMSO-LL	-
1971-S328	2441113.73	1971 Jun 11 0525	Athena	-	V139D [129]	0.000	SAMSO	MS	-	-	Reentry Test	MoabTIndep710617	SAMSO-LL	-
1971-S396	2441184.10	1971 Aug 20 1430	Athena	-	V131D [131]	0.000	SAMSO	MS	-	-	Reentry Test	Wire/Ulrich	SAMSO-LL	-
1971-S448	2441211.71	1971 Sep 17 0500	Athena	-	V126D [132]	0.000	SAMSO	MS	-	SAMSO/Sharpe,Carter	Reentry Test	WDCRF	SAMSO-LL	-
1971-S655	2441255.50	1971 Nov?	Strypi	-	Sandia 428-025	0.000	SAND	SS	-	SAND/	Tech	Atom7,9	ElecPhen3,305	-
1971-M15	2441255.50	1971 Nov	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1971-M16	2441285.50	1971 Dec	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1972-M05	2441468.50	1972 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1972-M06	2441468.50	1972 Jun	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1972-S274	2441527.29	1972 Jul 28 1859	Trailblazer 2	-	CRL A21.011-1	0.000	AFCRL	SS	-	AFCRL/Maloney	Reentry Test	AFCRL	-	-
1972-S349	2441606.12	1972 Oct 15 1500	Strypi VIIAR	-	NASA 12.18NE	0.000	GSFC	SS	-	NOAA/Hess	Test/Electron gun	Krebs	Davis-Poker	-
1972-M08	2441621.50	1972 Nov	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1972-M09	2441621.50	1972 Nov	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1973-M09	2441802.50	1973 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1973-M10	2441802.50	1973 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1973-S175	2441828.14	1973 May 25 1520	Castor Lance	-	CRL A44.320-01	0.000	AFCRL	SS	-	AFCRL/Walker	Aeron IR	AFCRL	-	-
1973-M14	2441986.50	1973 Nov	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1973-S429	2442023.46	1973 Dec 6 2259	Trailblazer 2	-	CRL A21.220-1	0.000	AFCRL	SS	-	AFCRL/Hayes,Rotman	Reentry Test	AFCRL-TR-74-0572	AFCRL	-
1973-S437	2442029.29	1973 Dec 12 1900	Athena	-	Athena C [142]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	SRctCon5	-
1974-S27	2442078.02	1974 Jan 30 1232	Athena	-	- [143]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	SRctCon5	-
1974-A04	2442085.82	1974 Feb 7 0741	Strypi IIAR	-	Sandia 428-?	0.000	SAND	SF	U	LRL/Toor	XR Astron	FDS	-	-
1974-M44	2442106.50	1974 Mar	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1974-S149	2442129.84	1974 Mar 23 0811	Strypi IVA	-	Barebird	0.000	SAND	SF	U	LASL/UAF/	Auroral	WWW-PFRR	-	-
1974-S28	2442132.45	1974 Mar 25 2245	Athena	-	- [147]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	SRctCon5	-
1974-S496	2442132.48	1974 Mar 25 2330	Athena	-	- [148]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	-	-
1974-M01	2442167.50	1974 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1974-M02	2442167.50	1974 May	Sergeant	-	-	0.000	MICOM	MS	-	-	OT?	WSMR	-	-
1974-M43	2442169.50	1974 May 2	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1974-S498	2442288.25	1974 Aug 28 1800	Athena	-	- [153]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	-	-
1974-A38	2442320.50	1974 Oct?	Strypi VIIAR	-	TM-354	0.000	SAND	SF	S1	SAND/	Reentry Test	SRctCon6	-	-
1974-S372	2442354.94	1974 Nov 3 1034:55	Strypi IIR	-	Sandia 428-034	0.000	SAND	SS	-	LRL/	XR Astron	FDS	-	-
1974-S497	2442395.38	1974 Dec 13 2110	Athena	-	- [154]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	-	-
1974-S421	2442399.54	1974 Dec 18 0058	Sergeant Hydac	-	SH74-1	0.000	SAND?	MS	-	-	Test	WWW-PFRR	-	-
1975-S32	2442422.62	1975 Jan 10 0250?	Castor	2R	-	0.000	SAMSO	SS	-	USAF/	Reentry Test	JCM	-	-
1975-S361	2442433.33	1975 Jan 20 2000	Athena	-	Athena C [155]	0.000	SAMSO	MS	-	-	Reentry Test	FDC/Ulrich	DNA4507F	-
1975-S97	2442483.31	1975 Mar 11 1930	Strypi VIIR	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	FirstDayCover	SRctCon3	-
1975-S101	2442483.83	1975 Mar 12 0748:10	Sergeant Hydac	-	IC519.07-1B	0.000	DNA/AFCRL	SS	-	AFCRL/Ulwick	Auroral	WWW-PFRR	-	-
1975-M20	2442502.50	1975 Apr	Sergeant	-	-	0.000	3OFA2	MS	-	-	OT	Ulrich	-	-
1975-M21	2442502.50	1975 Apr	Sergeant	-	-	0.000	3OFA2	MS	-	-	OT	Ulrich	-	-
1975-S18	2442505.27	1975 Apr 2 1830	Athena	-	Athena D [156]	0.000	SAMSO	SS	-	SAMSO/	Reentry Test	FirstDayCover	DNA4507F	-
1975-S122	2442515.91	1975 Apr 13 0946	Castor	-	DNA EX531.43-1	0.000	DNA/AFCRL	SS	-	AFCRL/O'Neil	Active Plasma	WDCRF	SRctCon3	-
1975-A38	2442576.51	1975 Jun 13 0019	Sergeant	2R	S75-1	0.000	DNA	SF	U	SDCO/Allen	Test	WDCRF	PFRR	-
1975-S237	2442631.50	1975 Aug 7	Castor	2R	-	0.000	ABMDO	SS	-	ABMDO/	Tech	JCM	-	-
1975-S275	2442673.81	1975 Sep 18 0730	Strypi VIIR	-	-	0.000	SAND	SS	-	SAND/	Reentry Test	FDC	SAMSO	-
1975-S310	2442716.49	1975 Oct 30 2352:31	Sergeant	-	EX530.90-1/S75-2	0.000	DNA	SS	-	SDCO/Allen	Test	WDCRF	-	-
1975-S343	2442750.50	1975 Dec 4	Castor	2R	-	0.000	ABMDO	SS	-	ABMDO/	Tech	JCM	-	-
1976-M05	2442800.92	1976 Jan 23 1006:40	Sergeant	-	WA630.50-1	0.000	DNA	SS	-	SDCO/Allen	Test	WWW-PFRR	-	-
1976-S114	2442836.74	1976 Feb 28 0546:40	Sergeant	-	EX630.42-1	0.000	DNA/AFCRL	SS	-	AFCRL/O'Neil	Active Plasma	WDCRF	SRctCon3	-
1976-S157	2442869.84	1976 Apr 1 0805:20	Sergeant	-	IC630.02-1A	0.000	DNA/AFCRL	SS	-	AFCRL/Ulwick	Auroral	WWW-PFRR	SRctCon3	-
1976-S159	2442871.39	1976 Apr 2 2118	Athena	-	Athena D [157]	0.000	SAMSO	MS	-	-	Reentry Test	FirstDayCov	SAMSO	-
1976-S360	2442937.10	1976 Jun 7 1424:16	Strypi IVR	-	-	0.000	SAND	SS	-	SAND/LASL/	Release	JGR86,A3,1437	-	-
1976-S213	2442956.50	1976 Jun 27	Castor	2R	-	0.000	ABMDO	MS	-	-	Tech	JCM	-	-
1976-S349	2443128.47	1976 Dec 15 2318	Athena	-	Athena D [158]	0.000	SAMSO	MS	-	-	Reentry Test	FDC	SAMSO	-
1977-S281	2443460.87	1977 Nov 13 0855	Sergeant	-	DNA IC730.09-1	0.000	DNA	SS	-	AFCRL/Ulwick	Aeron/Auroral/Solar	WDCRF	AFCRL	-
1977-S122	2443222.96	1977 Mar 20 1058	Athena	-	Athena D [159]	0.000	SAMSO	MS	-	-	Reentry Test	FDC	SAMSO	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-M26	2443260.50	1977 Apr 27	Sergeant	-	-	0.000	BWEHR	MS	-	-	OT	peterhall.de	-	-
1978-S81	2443567.84	1978 Feb 28 0810:50	Sergeant Hydac	-	DNA IC819.08-1	0.000	DNA	SS	-	AFCRL/Ulwick	Tech IR	WDCRF	AFCRL	-
1978-M04	2443668.33	1978 Jun 8 2000	Sergeant	-	EX830.56-1	0.000	DNA	SS	-	SDCO/Allen	Test	WWW-PFRR	-	-
1978-S229	2443826.03	1978 Nov 13 1244:30	Sergeant	-	DNA IC830.09-1A	0.000	DNA	SS	-	AFCRL/Ulwick	Auroral IR	WDCRF	AFCRL	-
1978-S249	2443847.50	1978 Dec 5	Castor	2R	-	0.000	ABMDO	MS	-	-	Interceptor	JCM	SRctCon6	-
1979-S54	2443904.50	1979 Feb	Strypi VIIR	?	SWERVE	0.000	SAND	SS	-	SAND/	Reentry Test	Powell	-	-
1979-S210	2444141.50	1979 Sep 25	Sergeant Hydac	-	ABRES	0.000	SAMSO	SS	-	SAMSO/	Test?	SAMSO	-	-
1979-S240	2444190.70	1979 Nov 13 0445:00	Strypi II	-	NASA 12.37UE	0.000	GSFC	SS	-	UMN/Winckler	Auroral	ASI79-1	-	-
1980-S39	2444274.50	1980 Feb 5	DOT	-	-	0.000	ABMDO	MS	-	-	Interceptor	KMRHist79	SRctCon6	-
1980-S304	2444438.50	1980 Jul 18	Sergeant Hydac	-	ABRES	0.000	ABMDO	MS	-	-	Reentry Test	KMRHist79	-	-
1980-S305	2444444.50	1980 Jul 24	Sergeant Hydac	-	ABRES	0.000	ABMDO	MS	-	-	Reentry Test	KMRHist79	-	-
1980-S172	2444498.50	1980 Sep 16	DOT	-	-	0.000	ABMDO	MS	-	-	Interceptor	KMRHist79	SRctCon6	-
1980-S164	2444511.50	1980 Sep 29	Strypi VIIIR	-	SWERVE II-1	0.000	SAND	SS	-	SAND/	Reentry Test	SandNews801031	SandNews810123	Powell
1980-S165	2444482.50	1980 Sep	Strypi VIIIR	?	SWERVE II-2	0.000	SAND	SS	-	SAND/	Reentry Test	Powell	-	or VIIIR
1981-S62	2444640.98	1981 Feb 5 1125	Sergeant	-	GL A30.072	0.000	AFGL2	SS	-	AFCRL/Wheeler	Auroral	WDCRF	AFCRL	-
1981-S74	2444661.22	1981 Feb 25 1720	Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Longaker	Test	WWW-PFRR	-	-
1981-S76	2444669.20	1981 Mar 5 1648	Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Longaker	Test	WWW-PFRR	-	-
1981-S82	2444675.69	1981 Mar 12 0430	Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Longaker	Test	WWW-PFRR	-	-
1981-S117	2444767.50	1981 Jun 12	DOT	-	-	0.000	ABMDO	MS	-	-	Interceptor	JCM	SRctCon6	-
1981-S167	2444916.00	1981 Nov 7 1203:40	Sergeant	-	GL A30.175	0.000	AFGL2	SS	-	AFCRL/Wheeler	Auroral	WDCRF	AFCRL	-
1982-S251	2445185.50	1982 Aug 4	Castor	2R	-	0.000	ABMDO	MS	-	-	Interceptor	DAHS82	-	-
1983-S89	2445437.88	1983 Apr 13 0906:23	Sergeant	-	GL A30.276	0.000	AFGL2	SS	-	AFCRL/UUT/Cook	Auroral	WDCRF	AFCRL	-
1985-S90	2446233.68	1985 Jun 17 0415	Castor Lance	-	GL A44.362	0.000	AFGL2	SF	S1	AFCRL/Price	IR Astron	WDCRF	AFCRL	-
1985-S18	2446155.50	1985 Apr	Strypi VIIR	?	SWERVE III	0.000	SAND	SS	-	SAND/	Reentry Test	Misc/TM-104313	AWST900806-25	-
1987-S203	2446885.50	1987 Apr?	Strypi XI	-	-	0.000	SDIO/SAND	SS	-	SDIO/	Reentry Test?	SAND2000-3070	-	-
1988-S51	2447200.50	1988 Feb 9	Strypi XI	-	-	0.000	SDIO/SAND	SS	-	SDIO/	Reentry Test?	JCM	-	-
1989-S115	2447526.50	1989 Jan	Strypi XI	?	-	0.000	SDIO/SAND	SS	-	SDIO/	Reentry Test?	DOE/EA-0492	-	-
1991-S72	2448306.10	1991 Feb 18 1418:35	Strypi XI	-	LACE	0.000	SDIO/SAND	SS	-	SDIO/	Reentry Test	NRL-FR-8121	JThermHT7,704	-
1992-S12	2448638.50	1992 Jan 17	Storm	-	S1	0.000	SMDC	MS	-	-	Test	Powell	-	-
1992-S51	2448789.50	1992 Jun 16	Storm	-	S2	0.000	SMDC	MF	U	-	Test	Powell	-	-
1993-S11	2449024.18	1993 Feb 5 1624	Storm	-	S3	0.000	SMDC	MS	-	-	Test	www.smdc.army.mil	-	-
1993-S64	2449268.50	1993 Oct 8	Storm	-	-	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	-	-
1993-S66	2449286.50	1993 Oct 26	Storm	-	-	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	-	-
1993-S75	2449321.50	1993 Nov 30	Storm	-	-	0.000	SMDC	MS	-	-	Target	Powell	-	-
1993-S76	2449338.50	1993 Dec 17	Storm	-	-	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	-	-
1994-S15	2449399.18	1994 Feb 15 1618	Storm	-	-	0.000	SMDC	MS	-	-	Target	OSC-PR	-	-
1994-S46	2449541.50	1994 Jul 8	Sergeant	-	-	0.000	OSCC/BMDO	SS	-	BMDO/	Target	MSTIProgRev	SN940725	-
1994-S53	2449572.50	1994 Aug 8	Sergeant	-	-	0.000	OSCC/BMDO	SS	-	USN/	Target	SN941112-13	-	-
1994-S56	2449583.52	1994 Aug 19 0023	Sergeant	-	-	0.000	OSCC/BMDO	SS	-	BMDO/	Target	SN941112-13	-	-
1995-S11	2449755.50	1995 Feb 7	Storm	-	S9	0.000	SMDC	MS	-	-	Target	www.smdc.army.mil	-	-
1995-S45	2449894.50	1995 Jun 26	Strypi IX	-	-	0.000	SMDC	SF	U	SMDC/	Target	www.smdc.army.mil	-	-
1995-S46	2449897.50	1995 Jun 29	Strypi IX	-	-	0.000	SMDC	SS	-	SMDC/	Target	www.smdc.army.mil	-	-
1995-S54	2449945.50	1995 Aug 16	Storm	-	S10?	0.000	SMDC	MS	-	-	Target	SN950828-8	-	-
1995-S67	2450004.11	1995 Oct 13 1440	Storm	-	S11	0.000	SMDC	MS	-	-	Target	Wire	Powell	-
1995-S86	2450065.00	1995 Dec 13 1200	Storm	-	-	0.000	SMDC	MS	-	-	Target	Wire	-	-
1997-S11	2450489.77	1997 Feb 10 0630	Strypi XIIR	-	RBIFF 1	0.000	SAND	SS	-	SAND/	Test	LasVegasSun	-	Feb 9?
1997-S66	2450726.27	1997 Oct 4 1830	Strypi XIIR	-	RBIFF 2	0.000	SAND	SF	S1	SAND/	Test	LasVegasSun	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A305	2434582.50	1953 Jul 24	HPAG Deacon	-	-	F-102 Model	-	-	-	WI	-	-	-	10?	-	-
1954-A38	2434771.50	1954 Jan 29	Double HPAG Deacon	-	-	F-102 Model	-	-	-	WI	-	-	-	10?	-	-
1963-M54	2438383.50	1963 Dec 20	Seagull	-	-	-	-	-	-	PA	LC-A	-	-	50?	-	-
1964-Y01	2438394.50	1964	Sidewinder-Raven	-	-	-	-	-	-	WS	-	-	-	113	-	-
1964-Y02	2438394.50	1964	Sidewinder-Raven	-	-	-	-	-	-	WS	-	-	-	113	-	-
1964-S777	2438729.50	1964 Dec	Sidewinder-Arcas	-	-	Test 1 (of 10)	-	-	-	PM	-	-	-	100?	-	-
1965-A227	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	-	Boosted Rooster	-	-	SNI	-	-	-	10?	-	-
1965-A228	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	-	Boosted Rooster	-	-	SNI	-	-	-	10?	-	-
1965-A229	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	-	Boosted Rooster	-	-	SNI	-	-	-	10?	-	-
1966-M16	2439217.08	1966 Apr 1 1357	Sidewinder-Arcas	-	-	AC30.752	-	-	-	FC	-	-	-	103	-	-
1966-M36	2439397.26	1966 Sep 28 1812	Sidewinder-Arcas	-	-	AC30.753	-	-	-	FC	-	-	-	103	-	-
1967-A107	2439722.53	1967 Aug 20 0040:33	Sidewinder-Arcas	-	-	Arcas II	-	-	-	AND	-	-	-	1?	-	-
1967-S395	2439728.49	1967 Aug 25 2343:00	Sidewinder-Arcas	-	NASA 15.21II	Arcas III	-	-	-	AND	-	-	-	84	-	-
1967-S480	2439772.69	1967 Oct 9 0436:00	Sidewinder-Arcas	-	NASA 15.22II	Arcas IV	-	-	-	AND	-	-	-	86	-	-
1967-S491	2439776.70	1967 Oct 13 0447:00	Sidewinder-Arcas	-	NASA 15.23II	Arcas V	-	-	-	AND	-	-	-	87	-	-
1968-M26	2440161.71	1968 Nov 1 0459:00	Sidewinder-Arcas	-	NASA 15.24II	Arcas VI PCA	-	-	-	AND	-	-	-	80?	-	-
1969-S150	2440278.06	1969 Feb 25 1321:00	Sidewinder-Arcas	-	-	ESRO A40/2	-	-	-	AND	-	-	-	86	-	-
1969-M06	2440278.40	1969 Feb 25 2137:10	Sidewinder-Arcas	-	-	ESRO A40/3	-	-	-	AND	-	-	-	88	-	-
1969-S701	2440295.30	1969 Mar 14 1905	Sidewinder-Arcas	-	-	Recovery test	-	-	-	WI	-	-	-	122	-	-
1969-M08	2440324.82	1969 Apr 13 0743:13	Sidewinder-Arcas	-	-	ESRO A40/6	-	-	-	AND	-	-	-	51	-	-
1969-M09	2440324.90	1969 Apr 13 0940:40	Sidewinder-Arcas	-	-	ESRO A40/4	-	-	-	AND	-	-	-	66	-	-
1969-M10	2440326.17	1969 Apr 14 1611:00	Sidewinder-Arcas	-	-	ESRO A40/5	-	-	-	AND	-	-	-	56	-	-
1969-M11	2440326.29	1969 Apr 14 1900:04	Sidewinder-Arcas	-	-	ESRO A40/1	-	-	-	AND	-	-	-	58	-	-
1969-S345	2440368.62	1969 May 27 0246	Sidewinder-Arcas	-	CRL A30.900-1	PCA69 Q-1 p/l calib.	-	-	-	FC	-	-	-	97	-	-
1969-S591	2440528.38	1969 Nov 2 2111	Sidewinder-Arcas	-	CRL A30.900-2	PCA69 Q-1 (D-region)	-	-	-	FC	-	-	-	96	-	-
1969-S612	2440530.42	1969 Nov 4 2206	Sidewinder-Arcas	-	CRL A30.900-3	PCA69 Q-2	-	-	-	FC	-	-	-	99	-	-
1975-S293	2442687.50	1975 Oct 2	Sidewinder-Arcas	-	MSAC 2L 7503	-	-	-	-	WS	-	-	-	90	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A305	2434582.50	1953 Jul 24	HPAG Deacon	-	-	0.000	PARD	AS	-	WFF/	Test	RP-1028	-	-
1954-A38	2434771.50	1954 Jan 29	Double HPAG Deacon	-	-	0.000	PARD	AS	-	WFF/	Test	RP-1028	-	-
1963-M54	2438383.50	1963 Dec 20	Seagull	-	-	0.000	NOTS?	SU	-	USN/	Aeron?	VAFB	MR631028-16	-
1964-Y01	2438394.50	1964	Sidewinder-Raven	-	-	0.000	ERDL	SS	-	ERDL/	Test	Morrow	-	-
1964-Y02	2438394.50	1964	Sidewinder-Raven	-	-	0.000	ERDL	SS	-	ERDL/	Test	Morrow	-	-
1964-S777	2438729.50	1964 Dec	Sidewinder-Arcas	-	-	0.000	NMC	SS	-	NMC/	Test	MR641221-21	Morrow	-
1965-A227	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	0.000	AFCRL	SF	U	AFCRL/	Test	PMRHist65	-	-
1965-A228	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	0.000	AFCRL	SF	U	AFCRL/	Test	PMRHist65	-	-
1965-A229	2438890.50	1965 May 10?	Sidewinder-Arcas	-	-	0.000	AFCRL	SF	U	AFCRL/	Test	PMRHist65	-	-
1966-M16	2439217.08	1966 Apr 1 1357	Sidewinder-Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sandock	Aeron	FC	WDCRF	-
1966-M36	2439397.26	1966 Sep 28 1812	Sidewinder-Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Sandock	Ionos	FC	WDCRF	-
1967-A107	2439722.53	1967 Aug 20 0040:33	Sidewinder-Arcas	-	-	0.000	NASA/NTNF	SF	U	NDRE/Holt,Landmark	Ionos	AND	SP-4401	-
1967-S395	2439728.49	1967 Aug 25 2343:00	Sidewinder-Arcas	-	NASA 15.21II	0.000	NASA/NTNF	SS	-	NDRE/Holt,Landmark	Ionos	AND	SP-4401	-
1967-S480	2439772.69	1967 Oct 9 0436:00	Sidewinder-Arcas	-	NASA 15.22II	0.000	NASA/NTNF	SS	-	BERG/NDRE/Arsnes	Ionos	AND	SP-4401	-
1967-S491	2439776.70	1967 Oct 13 0447:00	Sidewinder-Arcas	-	NASA 15.23II	0.000	NASA/NTNF	SS	-	BERG/NDRE/Arsnes	Ionos/Plasma	AND	SP-4401	-
1968-M26	2440161.71	1968 Nov 1 0459:00	Sidewinder-Arcas	-	NASA 15.24II	0.000	NASA/NTNF	SF	U	BERG/NDRE/Arsnes	Ionos/Plasma/Field	WDCRF	AND	-
1969-S150	2440278.06	1969 Feb 25 1321:00	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	SR10,831	-
1969-M06	2440278.40	1969 Feb 25 2137:10	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	SR10,831	-
1969-S701	2440295.30	1969 Mar 14 1905	Sidewinder-Arcas	-	-	0.000	WFF	SS	-	WFF/Manning	Test	WI-PR69-7	SP-4014	-
1969-M08	2440324.82	1969 Apr 13 0743:13	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	WDCRF/ESRO69	-
1969-M09	2440324.90	1969 Apr 13 0940:40	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	WDCRF/Massey	-
1969-M10	2440326.17	1969 Apr 14 1611:00	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	WDCRF/ESRO69	-
1969-M11	2440326.29	1969 Apr 14 1900:04	Sidewinder-Arcas	-	-	0.000	ESRO	SS	-	UCL/DSRI/Wrenn,Peters	Ionos/Plasma/Field	ESRO-SP80	WDCRF/Massey	-
1969-S345	2440368.62	1969 May 27 0246	Sidewinder-Arcas	-	CRL A30.900-1	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	WDCRF	-	-
1969-S591	2440528.38	1969 Nov 2 2111	Sidewinder-Arcas	-	CRL A30.900-2	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	FC	WDCRF	-
1969-S612	2440530.42	1969 Nov 4 2206	Sidewinder-Arcas	-	CRL A30.900-3	0.000	AFCRL	SS	-	AFCRL/Weeks	Aeron	WDCRF	-	-
1975-S293	2442687.50	1975 Oct 2	Sidewinder-Arcas	-	MSAC 2L 7503	0.000	DFVLR	SS	-	MPAE/Widdel	Ionos	ESA-SP291-80	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-A105	2438591.50	1964 Jul 15	Sirocco	-	LW-4	-	-	-	-	WS	-	-	-	9	-	-
1964-A116	2438607.50	1964 Jul 31	Sirocco	-	LW-5	-	-	-	-	WS	-	-	-	5	-	-
1964-A118	2438613.50	1964 Aug 6	Sirocco	-	LW-6	-	-	-	-	WS	-	-	-	1	-	-
1964-A134	2438654.50	1964 Sep 16	Sirocco	-	LW-10	-	-	-	-	WS	-	-	-	2	-	-
1964-W76	2438666.50	1964 Sep 28	Sirocco	-	LW-9	-	-	-	-	WS	-	-	-	59	-	-
1964-W89	2438676.50	1964 Oct 8	Sirocco	-	LW-13	-	-	-	-	WS	-	-	-	54	-	-
1964-A150	2438677.50	1964 Oct 9	Sirocco	-	LW-14	-	-	-	-	WS	-	-	-	23	-	-
1964-A169	2438703.50	1964 Nov 4	Sirocco	-	LW-12	-	-	-	-	WS	-	-	-	1	-	-
1964-W118	2438733.50	1964 Dec 4	Sirocco	-	LW-19	-	-	-	-	WS	-	-	-	56	-	-
1964-W126	2438745.50	1964 Dec 16	Sirocco	-	LW-21	PSU D-region	-	-	-	WS	-	-	-	67	-	-
1964-W127	2438746.50	1964 Dec 17	Sirocco	-	LW-22	-	-	-	-	WS	-	-	-	60	-	-
1965-W09	2438779.50	1965 Jan 19	Sirocco	-	LW-27	-	-	-	-	WS	-	-	-	74	-	-
1965-A11	2438781.50	1965 Jan 21	Sirocco	-	LW-20	-	-	-	-	WS	-	-	-	2	-	-
1965-W52	2438850.50	1965 Mar 31	Sirocco	-	EX-1.8	-	-	-	-	EGL	-	-	-	70	-	-
1965-A98	2438954.50	1965 Jul 13	Sirocco	-	EX-1.8	-	-	-	-	WS	-	-	-	1	-	-
1965-A111	2438967.50	1965 Jul 26	Sirocco	-	EX-1.8	-	-	-	-	EGL	-	-	-	1	-	-
1965-W153	2439061.50	1965 Oct 28	Sirocco	-	EX-1.8	-	-	-	-	WS	-	-	-	70	-	-
1966-W33	2439158.39	1966 Feb 1 2115	Sirocco	-	-	-	-	-	-	WS	-	-	-	60?	-	-
1966-W48	2439160.17	1966 Feb 3 1600	Sirocco	-	-	-	-	-	-	WS	-	-	-	60?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-A105	2438591.50	1964 Jul 15	Sirocco	-	LW-4	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-A116	2438607.50	1964 Jul 31	Sirocco	-	LW-5	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-A118	2438613.50	1964 Aug 6	Sirocco	-	LW-6	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-A134	2438654.50	1964 Sep 16	Sirocco	-	LW-10	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-W76	2438666.50	1964 Sep 28	Sirocco	-	LW-9	0.000	DASA	SS	-	DASA/	Test	Morrow	-	-
1964-W89	2438676.50	1964 Oct 8	Sirocco	-	LW-13	0.000	DASA	SS	-	DASA/	Test	Morrow	-	-
1964-A150	2438677.50	1964 Oct 9	Sirocco	-	LW-14	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-A169	2438703.50	1964 Nov 4	Sirocco	-	LW-12	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1964-W118	2438733.50	1964 Dec 4	Sirocco	-	LW-19	0.000	DASA	SS	-	DASA/	Test	Morrow	-	-
1964-W126	2438745.50	1964 Dec 16	Sirocco	-	LW-21	0.000	DASA	SS	-	DASA/PSU/	Test/Ionos	EDPE	Morrow	-
1964-W127	2438746.50	1964 Dec 17	Sirocco	-	LW-22	0.000	DASA	SS	-	DASA/	Test	Morrow	-	-
1965-W09	2438779.50	1965 Jan 19	Sirocco	-	LW-27	0.000	DASA	SS	-	DASA/	Test	Morrow	-	-
1965-A11	2438781.50	1965 Jan 21	Sirocco	-	LW-20	0.000	DASA	SF	U	DASA/	Test	Morrow	-	-
1965-W52	2438850.50	1965 Mar 31	Sirocco	-	EX-1.8	0.000	DASA	SS	-	DASA/	Aeron	Morrow	-	-
1965-A98	2438954.50	1965 Jul 13	Sirocco	-	EX-1.8	0.000	DASA	SF	U	DASA/	Aeron	Morrow	-	-
1965-A111	2438967.50	1965 Jul 26	Sirocco	-	EX-1.8	0.000	DASA	SF	U	DASA/	Aeron	Morrow	-	-
1965-W153	2439061.50	1965 Oct 28	Sirocco	-	EX-1.8	0.000	DASA	SS	-	DASA/	Aeron	Morrow	-	-
1966-W33	2439158.39	1966 Feb 1 2115	Sirocco	-	-	0.000	MRN	SS	-	DASA/	Aeron	MRN54	-	-
1966-W48	2439160.17	1966 Feb 3 1600	Sirocco	-	-	0.000	MRN	SS	-	DASA/	Aeron	MRN54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-W01	2437664.50	1962	Skua	-	-	Test	-	-	-	SUIST	-	-	-	70?	-	-
1964-W133	2438407.17	1964 Jan 12 1600	Skua	-	-	Wind,Temp	-	-	-	SUIST	-	-	-	50	-	-
1964-W134	2438410.29	1964 Jan 15 1900	Skua	-	-	Wind,Temp	-	-	-	SUIST	-	-	-	57	-	-
1964-W135	2438412.33	1964 Jan 17 2000	Skua	-	-	Wind,Temp	-	-	-	SUIST	-	-	-	65	-	-
1964-A191	2438418.46	1964 Jan 23 2300	Skua	-	-	Wind,Temp	-	-	-	SUIST	-	-	-	40	-	-
1964-M157	2438661.96	1964 Sep 23 1102	Skua	-	M27	MO Sonde	-	-	-	ABER	SK	-	-	75	-	-
1964-M158	2438668.98	1964 Sep 30 1129	Skua	-	M28	MO Sonde	-	-	-	ABER	SK	-	-	73	-	-
1966-W76	2439165.33	1966 Feb 08 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	62	-	-
1966-W99	2439167.33	1966 Feb 10 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	62	-	-
1966-W113	2439169.33	1966 Feb 12 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	62	-	-
1966-W121	2439171.33	1966 Feb 14 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	62	-	-
1966-W150	2439175.33	1966 Feb 18 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	64	-	-
1966-W164	2439178.42	1966 Feb 21 2200:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	64	-	-
1966-W178	2439180.33	1966 Feb 23 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	65	-	-
1966-W198	2439183.33	1966 Feb 26 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	57	-	-
1966-W215	2439185.33	1966 Feb 28 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	65	-	-
1966-W218	2439187.33	1966 Mar 02 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	65	-	-
1966-W219	2439189.33	1966 Mar 04 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	64	-	-
1966-W220	2439192.33	1966 Mar 07 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	68	-	-
1966-W222	2439194.33	1966 Mar 09 2000:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	65	-	-
1966-W234	2439234.41	1966 Apr 18 2153:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	69	-	-
1966-W236	2439237.42	1966 Apr 21 2203:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	68	-	-
1966-W272	2439279.87	1966 Jun 03 0848:00	Skua	?	SA-1	-	-	-	-	SUIST	-	-	-	70	-	-
1966-W338	2439396.36	1966 Sep 27 2037:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	59	-	-
1966-Y44	2439413.96	1966 Oct 15 1056	Skua	-	INTA S-6601	Carabela 4	-	-	-	ELAR	-	-	-	81	-	-
1966-A124	2439417.96	1966 Oct 19 1100	Skua	-	INTA S-6602	-	-	-	-	ELAR	-	-	-	0	-	-
1966-W463	2439445.95	1966 Nov 16 1055	Skua	-	INTA S-6603	-	-	-	-	ELAR	-	-	-	75?	-	-
1966-W464	2439459.96	1966 Nov 30 1102	Skua	-	INTA S-6604	-	-	-	-	ELAR	-	-	-	75?	-	-
1967-W147	2439679.51	1967 Jul 8 0010	Skua	-	Su1H	D-region	-	-	-	SUIST	-	-	-	73	-	-
1967-Y41	2439683.51	1967 Jul 12 0011:00	Skua	-	Su2H	D-region	-	-	-	SUIST	-	-	-	81	-	-
1968-M58	2439893.96	1968 Feb 7 1106	Skua	-	INTA S-6801	-	-	-	-	ELAR	-	-	-	75?	-	-
1968-S133	2439902.16	1968 Feb 15 1546:00	Skua 2	-	INTA MP-6801	-	-	-	-	ELAR	-	-	-	81	-	-
1968-S134	2439902.96	1968 Feb 16 1058:00	Skua 2	-	INTA MP-6802	-	-	-	-	ELAR	-	-	-	100?	-	-
1968-S136	2439904.00	1968 Feb 17 1154:00	Skua 2	-	INTA MP-6803	-	-	-	-	ELAR	-	-	-	81	-	-
1968-M59	2439921.98	1968 Mar 6 1134	Skua	-	INTA S-6802	-	-	-	-	ELAR	-	-	-	75?	-	-
1968-M04	2439923.44	1968 Mar 7 2236	Skua 2	-	AMD-S2-5	O2 profile	-	-	-	FC	-	-	-	68	-	-
1968-Y21	2439945.08	1968 Mar 29 1353	Skua	-	Su8H	-	-	-	-	SUIST	-	-	-	88	-	-
1968-S276	2439969.97	1968 Apr 23 1118:00	Skua 2	-	INTA MP-6804	-	-	-	-	ELAR	-	-	-	100?	-	-
1968-S278	2439970.94	1968 Apr 24 1029:00	Skua 2	-	INTA MP-6805	-	-	-	-	ELAR	-	-	-	84	-	-
1968-S279	2439971.03	1968 Apr 24 1237:00	Skua 2	-	INTA MP-6806	-	-	-	-	ELAR	-	-	-	81	-	-
1968-S294	2439976.42	1968 Apr 29 2204	Skua 2	-	AMD-S2-8	OH profile	-	-	-	FC	-	-	-	109	-	-
1968-M08	2439976.58	1968 Apr 30 0200	Skua 2	-	AMD-S2-7	-	-	-	-	FC	-	-	-	72	-	-
1968-M09	2439976.92	1968 Apr 30 1000	Skua 2	-	AMD-S2-6	-	-	-	-	FC	-	-	-	58	-	-
1968-A81	2440029.02	1968 Jun 21 1228	Skua	-	Su3H	-	-	-	-	SUIST	-	-	-	0?	-	-
1968-Y37	2440030.14	1968 Jun 22 1515:00	Skua	-	Su4H	-	-	-	-	SUIST	-	-	-	101	-	-
1968-Y40	2440040.07	1968 Jul 2 1343	Skua	-	Su5H	-	-	-	-	SUIST	-	-	-	90?	-	-
1968-Y47	2440046.12	1968 Jul 8 1455	Skua	-	Su6H	-	-	-	-	SUIST	-	-	-	100	-	-
1968-Y56	2440076.05	1968 Aug 7 1312	Skua	-	Su9H	-	-	-	-	SUIST	-	-	-	94	-	-
1968-M29	2440083.60	1968 Aug 15 0223	Skua	-	S101	Met	-	-	-	WOO	-	-	-	65	-	-
1968-M30	2440104.01	1968 Sep 4 1212	Skua	-	S102	Met	-	-	-	WOO	-	-	-	58	-	-
1968-M31	2440117.98	1968 Sep 18 1133	Skua	-	S103	Met	-	-	-	WOO	-	-	-	64	-	-
1968-M32	2440139.51	1968 Oct 10 0018	Skua	-	S104	Met	-	-	-	WOO	-	-	-	67	-	-
1968-S570	2440166.97	1968 Nov 06 1122:00	Skua 2	-	INTA MP-6807	-	-	-	-	ELAR	-	-	-	92	-	-
1968-M33	2440168.40	1968 Nov 7 2136	Skua	-	S105	Met	-	-	-	WOO	-	-	-	63	-	-
1968-S574	2440168.96	1968 Nov 08 1106:00	Skua 2	-	INTA MP-6808	-	-	-	-	ELAR	-	-	-	82	-	-
1968-Y93	2440169.00	1968 Nov 8 1200	Skua	-	Su10H	-	-	-	-	SUIST	-	-	-	90?	-	-
1968-S578	2440172.97	1968 Nov 12 1120:00	Skua 2	-	INTA MP-6809	-	-	-	-	ELAR	-	-	-	94	-	-
1968-S580	2440173.99	1968 Nov 13 1146:00	Skua 2	-	INTA MP-6810	-	-	-	-	ELAR	-	-	-	90	-	-
1968-S585	2440176.00	1968 Nov 15 1158:00	Skua 2	-	INTA MP-6811	-	-	-	-	ELAR	-	-	-	90	-	-
1968-Y95	2440176.99	1968 Nov 16 1149	Skua	-	Su11H	-	-	-	-	SUIST	-	-	-	90?	-	-
1968-S587	2440178.95	1968 Nov 18 1051:00	Skua 2	-	INTA MP-6812	-	-	-	-	ELAR	-	-	-	95	-	-
1968-M41	2440180.00	1968 Nov 19 1203	Skua	-	S106	Met	-	-	-	WOO	-	-	-	61	-	-
1968-S599	2440181.11	1968 Nov 20 1445:00	Skua 2	-	INTA MP-6813	-	-	-	-	ELAR	-	-	-	100?	-	-
1968-M42	2440181.21	1968 Nov 20 1703	Skua	-	S107	Met	-	-	-	WOO	-	-	-	66	-	-
1968-S606	2440182.95	1968 Nov 22 1043:00	Skua 2	-	INTA MP-6814	-	-	-	-	ELAR	-	-	-	99	-	-
1968-Y97	2440183.04	1968 Nov 22 1256	Skua	-	Su7H	-	-	-	-	SUIST	-	-	-	90?	-	-
1968-S610	2440185.96	1968 Nov 25 1101:00	Skua 2	-	INTA MP-6815	-	-	-	-	ELAR	-	-	-	94	-	-
1968-S613	2440188.13	1968 Nov 27 1502:00	Skua 2	-	INTA MP-6816	-	-	-	-	ELAR	-	-	-	86	-	-
1968-S615	2440189.97	1968 Nov 29 1121:00	Skua 2	-	INTA MP-6817	-	-	-	-	ELAR	-	-	-	87	-	-
1968-M43	2440193.43	1968 Dec 2 2223	Skua	-	S108	Met	-	-	-	WOO	-	-	-	62	-	-
1968-Y99	2440195.98	1968 Dec 5 1136	Skua	-	Su7aH	-	-	-	-	SUIST	-	-	-	111	-	-
1968-Y100	2440196.08	1968 Dec 5 1348	Skua	-	Su12H	-	-	-	-	SUIST	-	-	-	92	-	-
1969-W21	2440227.20	1969 Jan 5 1641:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	54	-	-
1969-W31	2440229.28	1969 Jan 7 1848:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	54	-	-
1969-W38	2440230.27	1969 Jan 8 1833:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	60	-	-
1969-W47	2440232.25	1969 Jan 10 1755:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	53	-	-
1969-W62	2440235.25	1969 Jan 13 1801:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	61	-	-
1969-W78	2440237.28	1969 Jan 15 1847:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	56	-	-
1969-W100	2440240.24	1969 Jan 18 1748:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	64	-	-
1969-A35	2440249.29	1969 Jan 27 1857:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	39	-	-
1969-M12	2440328.11	1969 Apr 16 1445:00	Skua	-	-	-	-	-	-	GAN	-	-	-	65	-	-
1969-M13	2440330.11	1969 Apr 18 1437:00	Skua	-	-	-	-	-	-	GAN	-	-	-	52	-	-
1969-M15	2440333.11	1969 Apr 21 1437:59	Skua	-	-	-	-	-	-	GAN	-	-	-	62	-	-
1969-M16	2440335.10	1969 Apr 23 1423:00	Skua	-	-	-	-	-	-	GAN	-	-	-	66	-	-
1969-M17	2440336.09	1969 Apr 24 1415:00	Skua	-	-	-	-	-	-	GAN	-	-	-	64	-	-
1969-M18	2440339.33	1969 Apr 27 1953:59	Skua	-	-	-	-	-	-	GAN	-	-	-	63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-M19	2440341.08	1969 Apr 29 1400:00	Skua	-	-	-	-	-	-	GAN	-	-	-	62	-	-
1969-M20	2440343.35	1969 May 1 2027:59	Skua	-	-	-	-	-	-	GAN	-	-	-	60	-	-
1969-M21	2440345.08	1969 May 3 1352:00	Skua	-	-	-	-	-	-	GAN	-	-	-	64	-	-
1969-M22	2440345.33	1969 May 3 1956:59	Skua	-	-	-	-	-	-	GAN	-	-	-	59	-	-
1969-M30	2440488.11	1969 Sep 23 1440:00	Skua	-	-	-	-	-	-	GAN	-	-	-	62	-	-
1969-A163	2440491.13	1969 Sep 26 1510:00	Skua	-	-	-	-	-	-	GAN	-	-	-	31	-	-
1969-W1591	2440552.30	1969 Nov 26 1909:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	50	-	-
1969-W1599	2440555.24	1969 Nov 29 1743:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	60	-	-
1969-W1609	2440558.27	1969 Dec 2 1830:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	60	-	-
1969-W1622	2440560.26	1969 Dec 4 1817:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	54	-	-
1969-W1637	2440564.25	1969 Dec 8 1754:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	60	-	-
1969-S653	2440565.00	1969 Dec 9 1203	Skua 3	-	INTA MP-6901	-	-	-	-	ELAR	-	-	-	90?	-	-
1969-S654	2440565.12	1969 Dec 9 1449	Skua 3	-	INTA MP-6902	-	-	-	-	ELAR	-	-	-	96	-	-
1969-S658	2440566.00	1969 Dec 10 1154	Skua 3	-	INTA MP-6903	-	-	-	-	ELAR	-	-	-	90	-	-
1969-S659	2440566.00	1969 Dec 10 1202	Skua 3	-	INTA MP-6904	-	-	-	-	ELAR	-	-	-	99	-	-
1969-W1654	2440567.25	1969 Dec 11 1800:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	61	-	-
1969-S667	2440567.99	1969 Dec 12 1150:00	Skua 2	-	INTA MP-6905	-	-	-	-	ELAR	-	-	-	100?	-	-
1969-S668	2440568.01	1969 Dec 12 1212:00	Skua 2	-	INTA MP-6906	-	-	-	-	ELAR	-	-	-	100?	-	-
1969-W1658	2440568.04	1969 Dec 12 1304	Skua	-	Su24H	-	-	-	-	SUIST	-	-	-	79	-	-
1969-S670	2440569.00	1969 Dec 13 1200:00	Skua 2	-	INTA MP-6907	-	-	-	-	ELAR	-	-	-	100?	-	-
1969-S676	2440571.00	1969 Dec 15 1200:00	Skua 2	-	INTA MP-6908	-	-	-	-	ELAR	-	-	-	86	-	-
1969-S679	2440572.00	1969 Dec 16 1156:00	Skua 2	-	INTA MP-6909	-	-	-	-	ELAR	-	-	-	96	-	-
1969-Y291	2440572.11	1969 Dec 16 1443	Skua	-	Su25H	-	-	-	-	SUIST	-	-	-	89	-	-
1969-S681	2440572.99	1969 Dec 17 1150:00	Skua 2	-	INTA MP-6910	-	-	-	-	ELAR	-	-	-	98	-	-
1969-A208	2440573.25	1969 Dec 17 1753:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	36	-	-
1969-S685	2440574.00	1969 Dec 18 1158:00	Skua 2	-	INTA MP-6911	-	-	-	-	ELAR	-	-	-	100?	-	-
1969-S686	2440574.06	1969 Dec 18 1328:00	Skua 2	-	INTA MP-6912	-	-	-	-	ELAR	-	-	-	95	-	-
1969-W1704	2440575.23	1969 Dec 19 1735:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	62	-	-
1969-W1716	2440579.22	1969 Dec 23 1720:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	61	-	-
1969-W1727	2440583.23	1969 Dec 27 1736:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	55	-	-
1969-W1730	2440585.28	1969 Dec 29 1846:59	Skua	-	-	-	-	-	-	SUIST	-	-	-	61	-	-
1969-W1734	2440586.24	1969 Dec 30 1745:00	Skua	-	-	-	-	-	-	SUIST	-	-	-	63	-	-
1970-W34	2440592.10	1970 Jan 05 1423:00	Skua	-	UCL 01	-	-	-	-	ESR	-	-	-	77	-	-
1970-W50	2440594.10	1970 Jan 07 1426:18	Skua	-	UCL 02	-	-	-	-	ESR	-	-	-	75	-	-
1970-Y09	2440596.10	1970 Jan 9 1417	Skua	-	Su26H	-	-	-	-	SUIST	-	-	-	82	-	-
1970-W63	2440596.11	1970 Jan 09 1444:00	Skua	-	UCL 03	-	-	-	-	ESR	-	-	-	74	-	-
1970-W73	2440599.11	1970 Jan 12 1439:00	Skua	-	UCL 04	-	-	-	-	ESR	-	-	-	68	-	-
1970-S54	2440598.98	1970 Jan 12 1133:00	Skua 2	-	INTA MP-7001	-	-	-	-	ELAR	-	-	-	88	-	-
1970-Y14	2440599.08	1970 Jan 12 1353	Skua	-	Su22H	-	-	-	-	SUIST	-	-	-	85	-	-
1970-Y16	2440601.11	1970 Jan 14 1440:00	Skua	-	UCL 05	-	-	-	-	ESR	-	-	-	78	-	-
1970-S72	2440603.00	1970 Jan 16 1200:00	Skua 2	-	INTA MP-7003	-	-	-	-	ELAR	-	-	-	97	-	-
1970-W113	2440604.12	1970 Jan 17 1446:00	Skua	-	UCL 06	-	-	-	-	ESR	-	-	-	72	-	-
1970-S76	2440603.99	1970 Jan 17 1145:00	Skua 2	-	INTA MP-7004	-	-	-	-	ELAR	-	-	-	89	-	-
1970-W114	2440605.98	1970 Jan 19 1130:00	Skua	-	INTA S-7001	-	-	-	-	ELAR	-	-	-	59	-	-
1970-W115	2440606.13	1970 Jan 19 1501:00	Skua	-	UCL 07	-	-	-	-	ESR	-	-	-	70	-	-
1970-M01	2440606.05	1970 Jan 19 1316:00	Skua 2	-	INTA MP-7005	-	-	-	-	ELAR	-	-	-	67	-	-
1970-S79	2440607.98	1970 Jan 21 1135:00	Skua 2	-	INTA MP-7006	-	-	-	-	ELAR	-	-	-	100?	-	-
1970-W131	2440608.12	1970 Jan 21 1500:00	Skua	-	UCL 08	-	-	-	-	ESR	-	-	-	71	-	-
1970-W146	2440610.13	1970 Jan 23 1506:00	Skua	-	UCL 09	-	-	-	-	ESR	-	-	-	71	-	-
1970-W157	2440613.14	1970 Jan 26 1518:00	Skua	-	UCL 10	-	-	-	-	ESR	-	-	-	73	-	-
1970-W167	2440615.14	1970 Jan 28 1518:00	Skua	-	UCL 11	-	-	-	-	ESR	-	-	-	75	-	-
1970-W178	2440617.14	1970 Jan 30 1527:00	Skua	-	UCL 12	-	-	-	-	ESR	-	-	-	78	-	-
1970-S121	2440634.01	1970 Feb 16 1213:00	Skua 2	-	INTA MP-7007	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S122	2440635.00	1970 Feb 17 1202:00	Skua 2	-	INTA MP-7008	-	-	-	-	ELAR	-	-	-	94	-	-
1970-Y70	2440635.90	1970 Feb 18 0935	Skua	-	Su13T/C	ISRO 16.01	TERLS-153	-	-	TERLS	-	-	-	92	-	-
1970-S126	2440636.00	1970 Feb 18 1153:00	Skua 2	-	INTA MP-7009	-	-	-	-	ELAR	-	-	-	95	-	-
1970-S129	2440637.00	1970 Feb 19 1200:00	Skua 2	-	INTA MP-7010	-	-	-	-	ELAR	-	-	-	95	-	-
1970-S131	2440638.00	1970 Feb 20 1200:00	Skua 2	-	INTA MP-7011	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S132	2440639.00	1970 Feb 21 1200:00	Skua 2	-	INTA MP-7012	-	-	-	-	ELAR	-	-	-	94	-	-
1970-S134	2440641.00	1970 Feb 23 1207:00	Skua 2	-	INTA MP-7013	-	-	-	-	ELAR	-	-	-	90	-	-
1970-S137	2440641.50	1970 Feb 24 0000:00	Skua 2	-	INTA SM-7001	-	Tidal Mesosphere	-	-	ELAR	-	-	-	100?	-	-
1970-S138	2440641.51	1970 Feb 24 0016:00	Skua 2	-	INTA SM-7002	-	-	-	-	ELAR	-	-	-	100?	-	-
1970-S139	2440641.67	1970 Feb 24 0401:00	Skua 2	-	INTA SM-7003	-	-	-	-	ELAR	-	-	-	100	-	-
1970-S141	2440641.83	1970 Feb 24 0800:00	Skua 2	-	INTA SM-7004	-	-	-	-	ELAR	-	-	-	100	-	-
1970-S142	2440642.00	1970 Feb 24 1200:00	Skua 2	-	INTA SM-7005	-	-	-	-	ELAR	-	-	-	97	-	-
1970-S144	2440642.33	1970 Feb 24 2000:00	Skua 2	-	INTA SM-7007	Chaff	-	-	-	ELAR	-	-	-	102	-	-
1970-S146	2440642.50	1970 Feb 25 0000:00	Skua 2	-	INTA SM-7008	-	-	-	-	ELAR	-	-	-	92	-	-
1970-S148	2440642.67	1970 Feb 25 0400:00	Skua 2	-	INTA SM-7009	-	-	-	-	ELAR	-	-	-	98	-	-
1970-S149	2440642.83	1970 Feb 25 0800:00	Skua 2	-	INTA SM-7010	-	-	-	-	ELAR	-	-	-	100?	-	-
1970-S150	2440642.85	1970 Feb 25 0820:00	Skua 2	-	INTA SM-7011	-	-	-	-	ELAR	-	-	-	95	-	-
1970-S151	2440643.00	1970 Feb 25 1201:00	Skua 2	-	INTA SM-7012	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S152	2440643.17	1970 Feb 25 1600:00	Skua 2	-	INTA SM-7013	-	-	-	-	ELAR	-	-	-	91	-	-
1970-S154	2440643.33	1970 Feb 25 2000:00	Skua 2	-	INTA SM-7014	Chaff	-	-	-	ELAR	-	-	-	101	-	-
1970-S155	2440643.50	1970 Feb 26 0000:00	Skua 2	-	INTA SM-7015	-	-	-	-	ELAR	-	-	-	100?	-	-
1970-S156	2440643.51	1970 Feb 26 0011:00	Skua 2	-	INTA SM-7016	-	-	-	-	ELAR	-	-	-	95	-	-
1970-S157	2440643.67	1970 Feb 26 0400:00	Skua 2	-	INTA SM-7017	-	-	-	-	ELAR	-	-	-	100	-	-
1970-S159	2440643.83	1970 Feb 26 0800:00	Skua 2	-	INTA SM-7018	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S162	2440644.33	1970 Feb 26 2000:00	Skua 2	-	INTA SM-7021	-	-	-	-	ELAR	-	-	-	100	-	-
1970-S163	2440644.50	1970 Feb 27 0000:00	Skua 2	-	INTA SM-7022	-	-	-	-	ELAR	-	-	-	103	-	-
1970-S164	2440644.67	1970 Feb 27 0400:00	Skua 2	-	INTA SM-7023	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S165	2440644.83	1970 Feb 27 0800:00	Skua 2	-	INTA SM-7024	-	-	-	-	ELAR	-	-	-	94	-	-
1970-S166	2440645.00	1970 Feb 27 1200:00	Skua 2	-	INTA SM-7025	-	-	-	-	ELAR	-	-	-	97	-	-
1970-S167	2440645.17	1970 Feb 27 1600:00	Skua 2	-	INTA SM-7026	-	-	-	-	ELAR	-	-	-	95	-	-
1970-S168	2440645.34	1970 Feb 27 2010:00	Skua 2	-	INTA SM-7027	-	-	-	-	ELAR	-	-	-	100?	-	-
1970-S169	2440645.37	1970 Feb 27 2055:00	Skua 2	-	INTA SM-7029	-	-	-	-	ELAR	-	-	-	104	-	-
1970-S173	2440645.50	1970 Feb 28 0000:00	Skua 2	-	INTA SM-7030	-	-	-	-	ELAR	-	-	-	103	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S175	2440645.67	1970 Feb 28 0400:00	Skua 2	-	INTA SM-7031	-	-	-	-	ELAR	-	-	-	96	-	-
1970-S176	2440645.83	1970 Feb 28 0800:00	Skua 2	-	INTA SM-7032	Tidal Mesosphere	-	-	-	ELAR	-	-	-	99	-	-
1970-S177	2440646.00	1970 Feb 28 1200:00	Skua 2	-	INTA MP-7014	-	-	-	-	ELAR	-	-	-	98	-	-
1970-W336	2440649.53	1970 Mar 4 0049:59	Skua	-	INTA S-7002	-	-	-	-	ELAR	-	-	-	66	-	-
1970-S191	2440651.01	1970 Mar 05 1213:00	Skua 2	-	INTA MP-7015	Horiz Sep. Chaff	-	-	-	ELAR	-	-	-	91	-	-
1970-S192	2440651.01	1970 Mar 05 1217:00	Skua 2	-	INTA MP-7016	Horiz Sep. Chaff	-	-	-	ELAR	-	-	-	94	-	-
1970-W350	2440652.07	1970 Mar 6 1345	Skua	-	ISRO 16.02	ISRO 16.02	TERLS-154	-	-	TERLS	-	-	-	61	-	-
1970-W365	2440654.07	1970 Mar 08 1345:00	Skua	-	ISRO-16.003	ISRO 16.03	TERLS-155	-	-	TERLS	-	-	-	58	-	-
1970-W374	2440656.09	1970 Mar 10 1415:00	Skua	-	ISRO-16.004	ISRO 16.04	TERLS-159	-	-	TERLS	-	-	-	60	-	-
1970-M09	2440656.11	1970 Mar 10 1436	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-W388	2440658.07	1970 Mar 12 1345:00	Skua	-	ISRO-16.005	ISRO 16.05	TERLS-160	-	-	TERLS	-	-	-	66	-	-
1970-M11	2440658.08	1970 Mar 12 1400	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-M12	2440659.11	1970 Mar 13 1436	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-W400	2440660.05	1970 Mar 14 1305:00	Skua	-	ISRO-16.006	ISRO 16.06	TERLS-161	-	-	TERLS	-	-	-	63	-	-
1970-M13	2440660.10	1970 Mar 14 1420	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-W401	2440662.07	1970 Mar 16 1345:00	Skua	-	ISRO-16.007	ISRO 16.07	TERLS-162	-	-	TERLS	-	-	-	62	-	-
1970-M14	2440662.09	1970 Mar 16 1412	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-W407	2440662.49	1970 Mar 16 2350:00	Skua	-	ISRO-16.008	ISRO 16.08	TERLS-163	-	-	TERLS	-	-	-	62	-	-
1970-W411	2440664.07	1970 Mar 18 1345:00	Skua	-	ISRO-16.009	ISRO 16.09	TERLS-169	-	-	TERLS	-	-	-	62	-	-
1970-M15	2440664.09	1970 Mar 18 1416	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-S250	2440664.60	1970 Mar 19 0230:50	Skua 2	-	K70/01	RTG SSK3/1	-	-	-	ESR	-	-	-	108	-	-
1970-S252	2440664.64	1970 Mar 19 0323:30	Skua 2	-	K70/02	RTG SSK3/2	-	-	-	ESR	-	-	-	108	-	-
1970-S253	2440664.66	1970 Mar 19 0356:40	Skua 2	-	K70/03	RTG SSK3/3 (K70/03?)	-	-	-	ESR	-	-	-	101	-	-
1970-S254	2440664.69	1970 Mar 19 0428:50	Skua 2	-	K70/04	RTG SSK3/4 (K70/04?)	-	-	-	ESR	-	-	-	105	-	-
1970-S256	2440664.72	1970 Mar 19 0518:00	Skua 2	-	K70/05?	RTG SSK3/5 (K70/05?)	-	-	-	ESR	-	-	-	105	-	-
1970-W422	2440666.07	1970 Mar 20 1345:00	Skua	-	ISRO-16.010	ISRO 16.10	TERLS-173	-	-	TERLS	-	-	-	68	-	-
1970-M16	2440666.10	1970 Mar 20 1430	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-W427	2440668.07	1970 Mar 22 1335:00	Skua	-	ISRO-16.011	ISRO 16.11	TERLS-174	-	-	TERLS	-	-	-	64	-	-
1970-M18	2440668.15	1970 Mar 22 1541	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-M19	2440669.10	1970 Mar 23 1430	Skua	-	-	-	-	-	-	GAN	-	-	-	50?	-	-
1970-Y136	2440688.05	1970 Apr 11 1306	Skua	-	Su28H	-	-	-	-	SUIST	-	-	-	90?	-	-
1970-Y137	2440688.17	1970 Apr 11 1606	Skua	-	Su27H	-	-	-	-	SUIST	-	-	-	90?	-	-
1970-Y139	2440690.89	1970 Apr 14 0915	Skua	-	Su16H	-	-	-	-	SUIST	-	-	-	92	-	-
1970-Y140	2440691.02	1970 Apr 14 1233	Skua	-	Su17H	-	-	-	-	SUIST	-	-	-	92	-	-
1970-Y144	2440691.92	1970 Apr 15 1005	Skua 2	-	Su15T/C	ISRO-16.13	TERLS-182	-	-	TERLS	-	-	-	93	-	-
1970-Y148	2440692.58	1970 Apr 16 0150	Skua 2	-	Su14T/C	ISRO-16.12	TERLS-183	-	-	TERLS	-	-	-	91	-	-
1970-Y152	2440694.05	1970 Apr 17 1306	Skua	-	Su18H	-	-	-	-	SUIST	-	-	-	95	-	-
1970-W648	2440712.47	1970 May 5 2315:00	Skua	-	INTA S-7003	-	-	-	-	ELAR	-	-	-	57	-	-
1970-W802	2440740.96	1970 Jun 3 1103:00	Skua	-	INTA S-7004	-	-	-	-	ELAR	-	-	-	63	-	-
1970-Y185	2440762.13	1970 Jun 24 1509	Skua	-	Su23H	-	-	-	-	SUIST	-	-	-	90?	-	-
1970-Y188	2440769.13	1970 Jul 1 1506	Skua	-	Su29H	-	-	-	-	SUIST	-	-	-	90?	-	-
1970-W999	2440776.42	1970 Jul 8 2159:59	Skua	-	INTA S-7005	-	-	-	-	ELAR	-	-	-	60	-	-
1970-W1033	2440783.43	1970 Jul 15 2212:59	Skua	-	INTA S-7006	-	-	-	-	ELAR	-	-	-	56	-	-
1970-W1901	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 1	-	-	-	GAN	-	-	-	60?	-	-
1970-W1902	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 2	-	-	-	GAN	-	-	-	60?	-	-
1970-W1903	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 3	-	-	-	GAN	-	-	-	60?	-	-
1970-W1904	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 4	-	-	-	GAN	-	-	-	60?	-	-
1970-W1905	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 5	-	-	-	GAN	-	-	-	60?	-	-
1970-W1906	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 6	-	-	-	GAN	-	-	-	60?	-	-
1970-W1907	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 7	-	-	-	GAN	-	-	-	60?	-	-
1970-W1908	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 8	-	-	-	GAN	-	-	-	60?	-	-
1970-W1909	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 9	-	-	-	GAN	-	-	-	60?	-	-
1970-W1910	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 10	-	-	-	GAN	-	-	-	60?	-	-
1970-W1911	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 11	-	-	-	GAN	-	-	-	60?	-	-
1970-W1912	2440829.50	1970 Sep	Skua	-	-	Gan Diurnal 12	-	-	-	GAN	-	-	-	60?	-	-
1970-S605	2440904.39	1970 Nov 13 2127	Skua 2	-	AMM-S2-9	D-region 0 profile	-	-	-	FC	-	-	-	98	-	-
1970-S637	2440930.02	1970 Dec 9 1230:00	Skua 2	-	INTA EMP-7001	-	-	-	-	ELAR	-	-	-	87	-	-
1970-S640	2440932.15	1970 Dec 11 1537:00	Skua 2	-	INTA EMP-7002	-	-	-	-	ELAR	-	-	-	80?	-	-
1970-S642	2440932.99	1970 Dec 12 1140:00	Skua 2	-	INTA EMP-7003	-	-	-	-	ELAR	-	-	-	80?	-	-
1971-W21	2440960.13	1971 Jan 8 1502	Skua 2	-	Sk83/1	ESRO Sk83/1	-	-	-	ESR	-	-	-	67	-	-
1971-W71	2440967.14	1971 Jan 15 1525	Skua 2	-	Sk83/2	ESRO Sk83/2	-	-	-	ESR	-	-	-	69	-	-
1971-A10	2440969.17	1971 Jan 17 1600	Skua 2	-	Sk83/3	ESRO Sk83/3	-	-	-	ESR	-	-	-	35	-	-
1971-Y28	2440970.50	1971 Jan 19	Skua	-	M--320A	-	-	-	-	ABER	SK	-	-	100?	-	-
1971-W93	2440971.14	1971 Jan 19 1520	Skua	-	Sk83/4	ESRO Sk83/4	-	-	-	ESR	-	-	-	71	-	-
1971-W97	2440971.50	1971 Jan 20	Skua	-	M--325H	-	-	-	-	SUIST	-	-	-	60	-	-
1971-Y35	2440972.50	1971 Jan 21	Skua	-	M--322A	-	-	-	-	ABER	SK	-	-	100?	-	-
1971-W112	2440973.13	1971 Jan 21 1507:26	Skua 2	-	Sk83/5	ESRO Sk83/5	-	-	-	ESR	-	-	-	69	-	-
1971-W119	2440973.50	1971 Jan 22	Skua	-	M--327H	-	-	-	-	SUIST	-	-	-	60	-	-
1971-W120	2440973.50	1971 Jan 22	Skua	-	M--324A	-	-	-	-	ABER	SK	-	-	60	-	-
1971-W127	2440974.50	1971 Jan 23	Skua	-	M--329H	-	-	-	-	SUIST	-	-	-	55	-	-
1971-W130	2440975.16	1971 Jan 23 1553:30	Skua 2	-	Sk83/6	ESRO Sk83/6	-	-	-	ESR	-	-	-	67	-	-
1971-W133	2440977.13	1971 Jan 25 1510	Skua 2	-	Sk83/7	ESRO Sk83/7	-	-	-	ESR	-	-	-	68	-	-
1971-W131	2440976.50	1971 Jan 25	Skua	-	M--331H	-	-	-	-	SUIST	-	-	-	60	-	-
1971-W142	2440977.50	1971 Jan 26	Skua	-	M--326A	-	-	-	-	ABER	SK	-	-	61	-	-
1971-A12	2440979.14	1971 Jan 27 1525:40	Skua 2	-	Sk83/8	ESRO Sk83/8	-	-	-	ESR	-	-	-	47	-	-
1971-A13	2440979.50	1971 Jan 28	Skua	-	M--333H	-	-	-	-	SUIST	-	-	-	47	-	-
1971-W159	2440979.50	1971 Jan 28	Skua	-	M--328A	-	-	-	-	ABER	SK	-	-	57	-	-
1971-W173	2440981.22	1971 Jan 29 1721	Skua 2	-	Sk83/9	ESRO Sk83/9	-	-	-	ESR	-	-	-	71	-	-
1971-W177	2440983.20	1971 Jan 31 1645	Skua 2	-	Sk83/10	ESRO Sk83/10	-	-	-	ESR	-	-	-	70	-	-
1971-W179	2440983.50	1971 Feb 01	Skua	-	M--335H	-	-	-	-	SUIST	-	-	-	58	-	-
1971-W194	2440985.50	1971 Feb 03	Skua	-	M--336H	-	-	-	-	SUIST	-	-	-	58	-	-
1971-W201	2440986.26	1971 Feb 3 1812	Skua 2	-	Sk83/11	ESRO Sk83/11	-	-	-	ESR	-	-	-	68	-	-
1971-W206	2440986.50	1971 Feb 04	Skua	-	M--330A	-	-	-	-	ABER	SK	-	-	62	-	-
1971-W213	2440987.50	1971 Feb 05	Skua	-	M--337H	-	-	-	-	SUIST	-	-	-	58	-	-
1971-W222	2440990.50	1971 Feb 08	Skua	-	M--332A	-	-	-	-	ABER	SK	-	-	62	-	-
1971-A15	2440991.37	1971 Feb 8 2048:17	Skua 2	-	Sk83/12	ESRO Sk83/12	-	-	-	ESR	-	-	-	48	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-W233	2440992.25	1971 Feb 9 1800	Skua 2	-	Sk83/13	ESRO Sk83/13	-	-	-	ESR	-	-	-	67	-	-
1971-W236	2440992.50	1971 Feb 10	Skua	-	M--338H	-	-	-	-	SUIST	-	-	-	60	-	-
1971-W237	2440992.50	1971 Feb 10	Skua	-	M--334A	-	-	-	-	ABER	SK	-	-	62	-	-
1971-W251	2440994.24	1971 Feb 11 1750	Skua 2	-	Sk83/14	ESRO Sk83/14	-	-	-	ESR	-	-	-	65	-	-
1971-W258	2440995.23	1971 Feb 12 1730	Skua 2	-	Sk83/15	ESRO Sk83/15	-	-	-	ESR	-	-	-	67	-	-
1971-M05	2441033.45	1971 Mar 22 2250:00	Skua 2	-	INTA AB-7101	-	-	-	-	ELAR	-	-	-	65	-	-
1971-M06	2441034.43	1971 Mar 23 2215:00	Skua 2	-	INTA AB-7102	-	-	-	-	ELAR	-	-	-	72	-	-
1971-M07	2441034.47	1971 Mar 23 2321:00	Skua 2	-	INTA AB-7103	-	-	-	-	ELAR	-	-	-	72	-	-
1971-M08	2441035.32	1971 Mar 24 1942:00	Skua 2	-	INTA AB-7104	-	-	-	-	ELAR	-	-	-	74	-	-
1971-M09	2441035.35	1971 Mar 24 2020:00	Skua 2	-	INTA AB-7105	-	-	-	-	ELAR	-	-	-	74	-	-
1971-S299	2441093.44	1971 May 21 2235	Skua 2	-	INTA MP-7101	SA-7101?	-	-	-	ELAR	-	-	-	81	-	-
1971-S312	2441099.62	1971 May 28 0256:00	Skua 2	-	INTA MP-7102	SC-7101	-	-	-	ELAR	-	-	-	96	-	-
1971-S625	2441099.68	1971 May 28 0425	Skua 2	-	INTA MP-7103	SA-7102	-	-	-	ELAR	-	-	-	82	-	-
1971-S314	2441099.69	1971 May 28 0431	Skua 2	-	INTA MP-7104	SC-7102	-	-	-	ELAR	-	-	-	103	-	-
1971-Y201	2441133.50	1971 Jul 1	Skua	-	SK39H [spurious?]	Ionos/Neutral atm.	-	-	-	SUIST	-	-	-	89	-	-
1971-Y217	2441147.03	1971 Jul 14 1250	Skua	-	SK36H	-	-	-	-	SUIST	-	-	-	100?	-	-
1971-Y231	2441163.02	1971 Jul 30 1234	Skua	-	SK37H	-	-	-	-	SUIST	-	-	-	100?	-	-
1971-Y276	2441210.06	1971 Sep 15 1322	Skua	-	SK38H	-	-	-	-	SUIST	-	-	-	82	-	-
1971-Y315	2441239.00	1971 Oct 14 1155	Skua	-	SK41H	-	-	-	-	SUIST	-	-	-	91	-	-
1971-Y343	2441275.00	1971 Nov 19 1153	Skua	-	SK42H	-	-	-	-	SUIST	-	-	-	92	-	-
1972-A03	2441322.05	1972 Jan 5 1314	Skua	-	SK30T/C	ISRO-16.14	TERLS-399	-	-	TERLS	-	-	-	2	-	-
1972-Y25	2441332.01	1972 Jan 15 1214	Skua	-	SK43H	-	-	-	-	SUIST	-	-	-	87	-	-
1972-A06	2441334.53	1972 Jan 18 0037	Skua	-	SK31T/C	ISRO-16.15	TERLS-405	-	-	TERLS	-	-	-	40	-	-
1972-M01	2441348.06	1972 Jan 31 1322	Skua 2	-	SK32T/C	ISRO-16.16	TERLS-409	-	-	TERLS	-	-	-	79	-	-
1972-S167	2441422.01	1972 Apr 14 1218:00	Skua 2	-	INTA MSC-7201	-	-	-	-	ELAR	-	-	-	101	-	-
1972-Y129	2441426.98	1972 Apr 19 1137	Skua	-	SK45H	-	-	-	-	SUIST	-	-	-	87	-	-
1972-S175	2441427.02	1972 Apr 19 1222:00	Skua 2	-	INTA MSC-7202	-	-	-	-	ELAR	-	-	-	90	-	-
1972-S176	2441428.98	1972 Apr 21 1132:00	Skua 2	-	INTA MSCL-7201	-	-	-	-	ELAR	-	-	-	94	-	-
1972-S757	2441433.97	1972 Apr 26 1123	Skua 2	-	INTA MSCL-7202	-	-	-	-	ELAR	-	-	-	94?	-	-
1972-S181	2441435.97	1972 Apr 28 1119:00	Skua 2	-	INTA MSCL-7203	-	-	-	-	ELAR	-	-	-	95	-	-
1972-S188	2441440.98	1972 May 03 1130:00	Skua 2	-	INTA MSC-7203	-	-	-	-	ELAR	-	-	-	100?	-	-
1972-S190	2441442.97	1972 May 05 1115:00	Skua 2	-	INTA MSCL-7204	-	-	-	-	ELAR	-	-	-	96	-	-
1972-S191	2441447.97	1972 May 10 1122:00	Skua 2	-	INTA MSCL-7205	-	-	-	-	ELAR	-	-	-	93	-	-
1972-S199	2441454.97	1972 May 17 1115:00	Skua 2	-	INTA MSC-7204	-	-	-	-	ELAR	-	-	-	93	-	-
1972-Y138	2441454.98	1972 May 17 1134	Skua	-	SK44H	-	-	-	-	SUIST	-	-	-	93	-	-
1972-S209	2441461.96	1972 May 24 1108:00	Skua 2	-	INTA MSC-7205	-	-	-	-	ELAR	-	-	-	89	-	-
1972-S229	2441468.97	1972 May 31 1115:00	Skua 2	-	INTA MSC-7206	-	-	-	-	ELAR	-	-	-	94	-	-
1972-S233	2441475.97	1972 Jun 07 1123:00	Skua 2	-	INTA MSC-7207	-	-	-	-	ELAR	-	-	-	95	-	-
1972-S240	2441482.98	1972 Jun 14 1125:00	Skua 2	-	INTA MSC-7208	-	-	-	-	ELAR	-	-	-	90	-	-
1972-S245	2441489.98	1972 Jun 21 1125:00	Skua 2	-	INTA MSC-7209	-	-	-	-	ELAR	-	-	-	90	-	-
1972-S758	2441496.97	1972 Jun 28 1115	Skua 2	-	INTA MSC-7210	-	-	-	-	ELAR	-	-	-	90?	-	-
1972-W1576	2441498.50	1972 Jul	Skua	-	-	-	-	-	-	GAN	-	-	-	70	-	-
1972-S253	2441503.97	1972 Jul 05 1117:00	Skua 2	-	INTA MSC-7211	-	-	-	-	ELAR	-	-	-	87	-	-
1972-S267	2441510.98	1972 Jul 12 1135:00	Skua 2	-	INTA MSC-7212	-	-	-	-	ELAR	-	-	-	90	-	-
1972-S342	2441602.68	1972 Oct 12 0414:00	Skua 2	-	SK19A	-	-	-	-	AND	-	-	-	100?	-	-
1972-S352	2441609.01	1972 Oct 18 1209:00	Skua 2	-	INTA MSCLO-7201	-	-	-	-	ELAR	-	-	-	91	-	-
1972-S354	2441611.00	1972 Oct 20 1207:00	Skua 2	-	INTA MSCLO-7202	-	-	-	-	ELAR	-	-	-	94	-	-
1972-S360	2441614.18	1972 Oct 23 1614:57	Skua 2	-	SK20A	-	-	-	-	AND	-	-	-	100?	-	-
1972-S363	2441616.01	1972 Oct 25 1208:00	Skua 2	-	INTA MSCLO-7203	-	-	-	-	ELAR	-	-	-	93	-	-
1972-S371	2441620.16	1972 Oct 29 1548:00	Skua 2	-	SK21A	-	-	-	-	AND	-	-	-	100?	-	-
1973-Y01	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y02	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y03	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y04	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y05	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y06	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y07	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y08	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y09	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y10	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y11	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-Y12	2441682.50	1973	Skua	-	-	-	-	-	-	CSG	ALFS	-	-	100?	-	-
1973-S11	2441693.03	1973 Jan 10 1245:00	Skua 2	-	INTA MSCLO-7301	-	-	-	-	ELAR	-	-	-	82	-	-
1973-S21	2441701.99	1973 Jan 19 1149:00	Skua 2	-	INTA MSCLO-7302	-	-	-	-	ELAR	-	-	-	82	-	-
1973-M01	2441702.98	1973 Jan 20 1138:00	Skua 2	-	INTA MSCL-7301	-	-	-	-	ELAR	-	-	-	80	-	-
1973-S542	2441703.98	1973 Jan 21 1135	Skua 2	-	INTA MSC-7301	-	-	-	-	ELAR	-	-	-	80?	-	-
1973-S23	2441704.98	1973 Jan 22 1138:00	Skua 2	-	INTA MSCLO-7303	-	-	-	-	ELAR	-	-	-	91	-	-
1973-S30	2441706.98	1973 Jan 24 1137:00	Skua 2	-	INTA MSCLO-7304	-	-	-	-	ELAR	-	-	-	88	-	-
1973-S33	2441707.99	1973 Jan 25 1147:00	Skua 2	-	INTA MSCL-7302	-	-	-	-	ELAR	-	-	-	94	-	-
1973-S34	2441709.99	1973 Jan 27 1143:00	Skua 2	-	INTA MSCLO-7305	-	-	-	-	ELAR	-	-	-	87	-	-
1973-S38	2441712.03	1973 Jan 29 1245:00	Skua 2	-	INTA MSCL-7303	-	-	-	-	ELAR	-	-	-	90	-	-
1973-M03	2441714.04	1973 Jan 31 1257:00	Skua 4	-	INTA MS4CLO-7301	-	-	-	-	ELAR	-	-	-	70	-	-
1973-S104	2441756.09	1973 Mar 14 1415:00	Skua 2	-	SUPARCO/MR/71	-	-	-	-	SOM	-	-	-	100?	-	-
1973-M04	2441757.09	1973 Mar 15 1415:00	Skua 2	-	SUPARCO/MR/72	-	-	-	-	SOM	-	-	-	58	-	-
1973-S117	2441765.02	1973 Mar 23 1236:00	Skua 2	-	INTA MSC-7302	-	-	-	-	ELAR	-	-	-	92	-	-
1973-M06	2441768.02	1973 Mar 26 1235:00	Skua 2	-	INTA MSC-7303	-	-	-	-	ELAR	-	-	-	79	-	-
1973-S125	2441771.03	1973 Mar 29 1250:00	Skua 2	-	INTA MSC-7304	-	-	-	-	ELAR	-	-	-	96	-	-
1973-S138	2441776.00	1973 Apr 03 1205:00	Skua 2	-	INTA MSC-7305	-	-	-	-	ELAR	-	-	-	93	-	-
1973-S145	2441779.01	1973 Apr 06 1219:00	Skua 2	-	INTA MSC-7306	-	-	-	-	ELAR	-	-	-	93	-	-
1973-M08	2441791.10	1973 Apr 18 1430:00	Skua 2	-	SUPARCO/MR/73	-	-	-	-	SOM	-	-	-	65	-	-
1973-W1621	2441946.66	1973 Sep 21 0344	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	50?	-	-
1973-W1622	2441947.15	1973 Sep 21 1539	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	65	-	-
1973-W1623	2441947.69	1973 Sep 22 0431	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	69	-	-
1973-W1624	2441950.54	1973 Sep 25 0051	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1625	2441951.27	1973 Sep 25 1835	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1626	2441951.54	1973 Sep 26 0101	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	64	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1627	2441952.11	1973 Sep 26 1435	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	65	-	-
1973-W1628	2441953.10	1973 Sep 27 1420	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	66	-	-
1973-W1629	2441953.63	1973 Sep 28 0306	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1630	2441954.64	1973 Sep 29 0324	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	88	-	-
1973-W1631	2441956.67	1973 Oct 1 0402	Skua	-	CIMO	BMO Sonde	-	-	-	CSG	-	-	-	53	-	-
1973-S359	2441975.02	1973 Oct 19 1236:00	Skua 2	-	INTA MSC2A-7301	-	-	-	-	ELAR	-	-	-	92	-	-
1973-S414	2442016.98	1973 Nov 30 1130:00	Skua 2	-	INTA MSCLO-7306	-	-	-	-	ELAR	-	-	-	81	-	-
1973-S416	2442019.99	1973 Dec 03 1139:00	Skua 2	-	INTA MSCLO-7307	-	-	-	-	ELAR	-	-	-	90	-	-
1973-S417	2442021.07	1973 Dec 4 1345	Skua 2	-	AMM-S2-10	Oxygen profile	-	-	-	FC	-	-	-	124	-	-
1973-S419	2442021.25	1973 Dec 4 1800	Skua 2	-	AMM-S2-11	-	-	-	-	FC	-	-	-	108	-	-
1973-S420	2442021.44	1973 Dec 4 2234	Skua 2	-	AMM-S2-12	-	-	-	-	FC	-	-	-	108	-	-
1973-S421	2442021.79	1973 Dec 5 0652	Skua 2	-	AMM-S2-13	-	-	-	-	FC	-	-	-	110	-	-
1973-S422	2442021.99	1973 Dec 05 1146:00	Skua 2	-	INTA MSCLO-7308	-	-	-	-	ELAR	-	-	-	90	-	-
1973-S423	2442022.09	1973 Dec 5 1405	Skua 2	-	AMM-S2-14	-	-	-	-	FC	-	-	-	110	-	-
1973-S431	2442023.98	1973 Dec 07 1132:00	Skua 2	-	INTA MSCLO-7309	-	-	-	-	ELAR	-	-	-	90	-	-
1973-S436	2442027.95	1973 Dec 11 1046:00	Skua 2	-	INTA MSCLO-7310	-	-	-	-	ELAR	-	-	-	90	-	-
1973-S438	2442028.96	1973 Dec 12 1108:00	Skua 2	-	INTA MSCLO-7311	-	-	-	-	ELAR	-	-	-	91	-	-
1973-S440	2442030.98	1973 Dec 14 1136:00	Skua 2	-	INTA MSCLO-7312	-	-	-	-	ELAR	-	-	-	85	-	-
1973-S441	2442032.98	1973 Dec 16 1130:00	Skua 2	-	INTA MSCLO-7313	-	-	-	-	ELAR	-	-	-	92	-	-
1974-S53	2442057.98	1974 Jan 10 1130:00	Skua 2	-	INTA MSCLO-7401	-	-	-	-	ELAR	-	-	-	93	-	-
1974-S54	2442058.99	1974 Jan 11 1140:00	Skua 2	-	INTA MSCLO-7402	-	-	-	-	ELAR	-	-	-	100?	-	-
1974-S58	2442061.98	1974 Jan 14 1135:00	Skua 2	-	INTA MSCLO-7403	-	-	-	-	ELAR	-	-	-	86	-	-
1974-S62	2442063.98	1974 Jan 16 1138:00	Skua 2	-	INTA MSCLO-7404	-	-	-	-	ELAR	-	-	-	86	-	-
1974-S66	2442066.98	1974 Jan 19 1134:00	Skua 4	-	INTA M4SCL-7401	-	-	-	-	ELAR	-	-	-	110	-	-
1974-S69	2442068.98	1974 Jan 21 1130:00	Skua 4	-	INTA MS4CLO-7401	-	-	-	-	ELAR	-	-	-	114	-	-
1974-S75	2442070.98	1974 Jan 23 1130:00	Skua 4	-	INTA MS4CLO-7402	-	-	-	-	ELAR	-	-	-	106	-	-
1974-S77	2442072.98	1974 Jan 25 1130:00	Skua 4	-	INTA MS4CLO-7403	-	-	-	-	ELAR	-	-	-	109	-	-
1975-S47	2442438.06	1975 Jan 25 1333:00	Skua 2	-	INTA MSCLO-7501	-	-	-	-	ELAR	-	-	-	91	-	-
1975-S54	2442443.09	1975 Jan 30 1410:00	Skua 4	-	INTA MS4CL-7501	-	-	-	-	ELAR	-	-	-	117	-	-
1975-S62	2442449.04	1975 Feb 05 1302:00	Skua 2	-	INTA MSCLO-7502	-	-	-	-	ELAR	-	-	-	90	-	-
1975-S143	2442567.97	1975 Jun 04 1122:00	Skua 2	-	INTA MSCL-7503	-	-	-	-	ELAR	-	-	-	85	-	-
1975-S146	2442570.96	1975 Jun 07 1100:00	Skua 2	-	INTA MSCL-7504	-	-	-	-	ELAR	-	-	-	94	-	-
1975-S354	2442763.96	1975 Dec 17 1104:00	Skua 3	-	INTA MS3CL-7501	Winter Anom	-	-	-	ELAR	-	-	-	94	-	-
1976-S44	2442780.12	1976 Jan 2 1459	Skua 3	-	INTA MS3CLO-7601	Winter Anom	-	-	-	ELAR	-	-	-	94	-	-
1976-S48	2442782.16	1976 Jan 04 1547:00	Skua 3	-	INTA MS3CL-7601	Winter Anom	-	-	-	ELAR	-	-	-	103	-	-
1976-S50	2442782.46	1976 Jan 04 2258:00	Skua 4	-	INTA MS4CLOF-7601	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S51	2442784.16	1976 Jan 06 1546:00	Skua 2	-	INTA M3CL-7601	Winter Anom	-	-	-	ELAR	-	-	-	96	-	-
1976-S54	2442787.17	1976 Jan 09 1611:00	Skua 2	-	INTA MSCL-7602	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S56	2442790.10	1976 Jan 12 1420:00	Skua 3	-	INTA MS3CLO-7602	Winter Anom	-	-	-	ELAR	-	-	-	91	-	-
1976-S57	2442792.09	1976 Jan 14 1410:00	Skua 3	-	INTA MS3CL-7602	Winter Anom	-	-	-	ELAR	-	-	-	93	-	-
1976-M03	2442798.17	1976 Jan 20 1610:00	Skua 3	-	INTA MS3CLO-7603	Winter Anomaly	-	-	-	ELAR	-	-	-	80	-	-
1976-A03	2442799.15	1976 Jan 21 1540:00	Skua 2	-	INTA MSCL-7603	Winter Anomaly	-	-	-	ELAR	-	-	-	15	-	-
1976-S70	2442799.44	1976 Jan 21 2230:00	Skua 4	-	INTA MS4CLOF-7602	Winter Anomaly	-	-	-	ELAR	-	-	-	99	-	-
1976-S71	2442800.18	1976 Jan 22 1616:00	Skua 2	-	INTA MSCL-7604	Winter Anom	-	-	-	ELAR	-	-	-	93	-	-
1976-S74	2442801.17	1976 Jan 23 1610:00	Skua 2	-	INTA MSCL-7605	Winter Anom	-	-	-	ELAR	-	-	-	99	-	-
1976-S80	2442804.18	1976 Jan 26 1619:00	Skua 3	-	INTA MS3CL-7603	Winter Anom	-	-	-	ELAR	-	-	-	100	-	-
1976-S82	2442806.17	1976 Jan 28 1610:00	Skua 3	-	INTA MS3CL-7604	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S94	2442814.16	1976 Feb 05 1551:00	Skua 2	-	INTA MSCL-7606	Winter Anom	-	-	-	ELAR	-	-	-	102	-	-
1976-S95	2442814.44	1976 Feb 05 2230:00	Skua 4	-	INTA MS4CLOF-7603	Winter Anom	-	-	-	ELAR	-	-	-	101	-	-
1976-S98	2442817.15	1976 Feb 08 1534:00	Skua 2	-	INTA MSCL-7607	Winter Anom	-	-	-	ELAR	-	-	-	100	-	-
1976-S412	2442903.40	1976 May 4 2130	Skua 4	-	INTA MS4CLOF-7604	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S175	2442903.70	1976 May 5 0443	Skua 2	-	INTA MSCL-7608	Winter Anom	-	-	-	ELAR	-	-	-	95	-	-
1976-S413	2442904.40	1976 May 5 2130	Skua 4	-	INTA MS4CLOF-7605	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S414	2442907.15	1976 May 8 1531	Skua 2	-	INTA MSCLO-7601	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1976-S415	2442914.15	1976 May 15 1531	Skua 2	-	INTA MSCLO-7602	Winter Anom	-	-	-	ELAR	-	-	-	100?	-	-
1980-S198	2444554.52	1980 Nov 11 0032:00	Skua 2	-	MPSC-8001A	EBC-C E7	-	-	-	AND	-	-	-	99	-	-
1980-S260	2444554.56	1980 Nov 11 0121:30	Skua 2	-	E7	EBC E7	-	-	-	ESR	-	-	-	97	-	-
1980-S205	2444559.66	1980 Nov 16 0346:00	Skua 2	-	MPSC-8002A	EBC-B E7	-	-	-	AND	-	-	-	87	-	-
1980-S261	2444559.73	1980 Nov 16 0537:30	Skua 2	-	E7	EBC E7	-	-	-	ESR	-	-	-	96	-	-
1980-S216	2444571.66	1980 Nov 28 0344:36	Skua 2	-	MPSC-8003A	EBC-A2 E7	-	-	-	AND	-	-	-	94	-	-
1980-S262	2444574.59	1980 Dec 1 0209:30	Skua 2	-	E7	EBC E7	-	-	-	ESR	-	-	-	92	-	-
1981-Y427	2444948.42	1981 Dec 9 2201:59	Skua 4	-	E8	EBC81 E8	-	-	-	ESR	-	-	-	70	-	-
1981-Y428	2444948.46	1981 Dec 9 2255:30	Skua 2	-	E7	EBC81 E7	-	-	-	ESR	-	-	-	94	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-W01	2437664.50	1962	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Test/Aeron	Serra	-	-
1964-W133	2438407.17	1964 Jan 12 1600	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	Nature4932,587	-	-
1964-W134	2438410.29	1964 Jan 15 1900	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	Nature4932,587	-	-
1964-W135	2438412.33	1964 Jan 17 2000	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	Nature4932,587	-	-
1964-A191	2438418.46	1964 Jan 23 2300	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	Nature4932,587	-	-
1964-M157	2438661.96	1964 Sep 23 1102	Skua	-	M27	0.000	UKMO	SS	-	UKMO/	Meteo	SkuaM27Rpt	-	-
1964-M158	2438668.98	1964 Sep 30 1129	Skua	-	M28	0.000	UKMO	SS	-	UKMO/	Meteo	SkuaM27Rpt	-	-
1966-W76	2439165.33	1966 Feb 08 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W99	2439167.33	1966 Feb 10 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W113	2439169.33	1966 Feb 12 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W121	2439171.33	1966 Feb 14 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W150	2439175.33	1966 Feb 18 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W164	2439178.42	1966 Feb 21 2200:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W178	2439180.33	1966 Feb 23 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W198	2439183.33	1966 Feb 26 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W215	2439185.33	1966 Feb 28 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W218	2439187.33	1966 Mar 02 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W219	2439189.33	1966 Mar 04 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W220	2439192.33	1966 Mar 07 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W222	2439194.33	1966 Mar 09 2000:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W234	2439234.41	1966 Apr 18 2153:00	Skua	-	-	0.000	SRC?	SU	-	DRTE/Heikkila,Barrington	Aeron	WDCRF	-	-
1966-W236	2439237.42	1966 Apr 21 2203:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W272	2439279.87	1966 Jun 03 0848:00	Skua	?	SA-1	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-W338	2439396.36	1966 Sep 27 2037:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/Frith	Aeron	WDCRF	-	-
1966-Y44	2439413.96	1966 Oct 15 1056	Skua	-	INTA S-6601	0.000	INTA	SS	-	INTA/	Aeron/Test	ElAren	SP-4007	-
1966-A124	2439417.96	1966 Oct 19 1100	Skua	-	INTA S-6602	0.000	INTA	SF	U	INTA/	Aeron/Test	ElAren	SP-4007	-
1966-W463	2439445.95	1966 Nov 16 1055	Skua	-	INTA S-6603	0.000	INTA	SS	-	INTA/	Aeron/Test	ElAren	ActaA61,534	-
1966-W464	2439459.96	1966 Nov 30 1102	Skua	-	INTA S-6604	0.000	INTA	SS	-	INTA/	Aeron/Test	ElAren	ActaA61,534	-
1967-W147	2439679.51	1967 Jul 8 0010	Skua	-	Su1H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1967-Y41	2439683.51	1967 Jul 12 0011:00	Skua	-	Su2H	0.000	SRC	SU	-	UCW/Williams	Ionos	WDCRF	-	-
1968-M58	2439893.96	1968 Feb 7 1106	Skua	-	INTA S-6801	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-S133	2439902.16	1968 Feb 15 1546:00	Skua 2	-	INTA MP-6801	0.000	DLR/INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S134	2439902.96	1968 Feb 16 1058:00	Skua 2	-	INTA MP-6802	0.000	DLR/INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S136	2439904.00	1968 Feb 17 1154:00	Skua 2	-	INTA MP-6803	0.000	DLR/INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-M59	2439921.98	1968 Mar 6 1134	Skua	-	INTA S-6802	0.000	INTA	SS	-	INTA/NASA/	Aeron	ElAren	-	-
1968-M04	2439923.44	1968 Mar 7 2236	Skua 2	-	AMD-S2-5	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1968-Y21	2439945.08	1968 Mar 29 1353	Skua	-	Su8H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1968-S276	2439969.97	1968 Apr 23 1118:00	Skua 2	-	INTA MP-6804	0.000	INTA	SU	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S278	2439970.94	1968 Apr 24 1029:00	Skua 2	-	INTA MP-6805	0.000	INTA	SU	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S279	2439971.03	1968 Apr 24 1237:00	Skua 2	-	INTA MP-6806	0.000	INTA	SU	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S294	2439976.42	1968 Apr 29 2204	Skua 2	-	AMD-S2-8	0.000	CA	SS	-	YORK/Schiff	Aeron/CR	FC	-	-
1968-M08	2439976.58	1968 Apr 30 0200	Skua 2	-	AMD-S2-7	0.000	CA	SS	-	YORK/Schiff	Aeron/CR	FC	-	-
1968-M09	2439976.92	1968 Apr 30 1000	Skua 2	-	AMD-S2-6	0.000	CA	SS	-	YORK/Schiff	Aeron/CR	FC	-	-
1968-A81	2440029.02	1968 Jun 21 1228	Skua	-	Su3H	0.000	SRC	SF	U	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-Y37	2440030.14	1968 Jun 22 1515:00	Skua	-	Su4H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-Y40	2440040.07	1968 Jul 2 1343	Skua	-	Su5H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-Y47	2440046.12	1968 Jul 8 1455	Skua	-	Su6H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-Y56	2440076.05	1968 Aug 7 1312	Skua	-	Su9H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1968-M29	2440083.60	1968 Aug 15 0223	Skua	-	S101	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M30	2440104.01	1968 Sep 4 1212	Skua	-	S102	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M31	2440117.98	1968 Sep 18 1133	Skua	-	S103	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-M32	2440139.51	1968 Oct 10 0018	Skua	-	S104	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S570	2440166.97	1968 Nov 06 1122:00	Skua 2	-	INTA MP-6807	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	PlanSpaceSci21,1131	-
1968-M33	2440168.40	1968 Nov 7 2136	Skua	-	S105	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S574	2440168.96	1968 Nov 08 1106:00	Skua 2	-	INTA MP-6808	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-Y93	2440169.00	1968 Nov 8 1200	Skua	-	Su10H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1968-S578	2440172.97	1968 Nov 12 1120:00	Skua 2	-	INTA MP-6809	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S580	2440173.99	1968 Nov 13 1146:00	Skua 2	-	INTA MP-6810	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S585	2440176.00	1968 Nov 15 1158:00	Skua 2	-	INTA MP-6811	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-Y95	2440176.99	1968 Nov 16 1149	Skua	-	Su11H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1968-S587	2440178.95	1968 Nov 18 1051:00	Skua 2	-	INTA MP-6812	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-M41	2440180.00	1968 Nov 19 1203	Skua	-	S106	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S599	2440181.11	1968 Nov 20 1445:00	Skua 2	-	INTA MP-6813	0.000	INTA	SU	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-M42	2440181.21	1968 Nov 20 1703	Skua	-	S107	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-S606	2440182.95	1968 Nov 22 1043:00	Skua 2	-	INTA MP-6814	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-Y97	2440183.04	1968 Nov 22 1256	Skua	-	Su7H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-S610	2440185.96	1968 Nov 25 1101:00	Skua 2	-	INTA MP-6815	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S613	2440188.13	1968 Nov 27 1502:00	Skua 2	-	INTA MP-6816	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-S615	2440189.97	1968 Nov 29 1121:00	Skua 2	-	INTA MP-6817	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	SR10,174	-
1968-M43	2440193.43	1968 Dec 2 2223	Skua	-	S108	0.000	WRE	SS	-	WRE/CBMET/Callus	Meteo	SR11,781	-	-
1968-Y99	2440195.98	1968 Dec 5 1136	Skua	-	Su7aH	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1968-Y100	2440196.08	1968 Dec 5 1348	Skua	-	Su12H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1969-W21	2440227.20	1969 Jan 5 1641:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W31	2440229.28	1969 Jan 7 1848:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W38	2440230.27	1969 Jan 8 1833:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W47	2440232.25	1969 Jan 10 1755:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W62	2440235.25	1969 Jan 13 1801:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W78	2440237.28	1969 Jan 15 1847:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W100	2440240.24	1969 Jan 18 1748:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-A35	2440249.29	1969 Jan 27 1857:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M12	2440328.11	1969 Apr 16 1445:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M13	2440330.11	1969 Apr 18 1437:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M15	2440333.11	1969 Apr 21 1437:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M16	2440335.10	1969 Apr 23 1423:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M17	2440336.09	1969 Apr 24 1415:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M18	2440339.33	1969 Apr 27 1953:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-M19	2440341.08	1969 Apr 29 1400:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M20	2440343.35	1969 May 1 2027:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M21	2440345.08	1969 May 3 1352:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M22	2440345.33	1969 May 3 1956:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-M30	2440488.11	1969 Sep 23 1440:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-A163	2440491.13	1969 Sep 26 1510:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1591	2440552.30	1969 Nov 26 1909:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1599	2440555.24	1969 Nov 29 1743:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1609	2440558.27	1969 Dec 2 1830:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1622	2440560.26	1969 Dec 4 1817:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1637	2440564.25	1969 Dec 8 1754:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-S653	2440565.00	1969 Dec 9 1203	Skua 3	-	INTA MP-6901	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S654	2440565.12	1969 Dec 9 1449	Skua 3	-	INTA MP-6902	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S658	2440566.00	1969 Dec 10 1154	Skua 3	-	INTA MP-6903	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S659	2440566.00	1969 Dec 10 1202	Skua 3	-	INTA MP-6904	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-W1654	2440567.25	1969 Dec 11 1800:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-S667	2440567.99	1969 Dec 12 1150:00	Skua 2	-	INTA MP-6905	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S668	2440568.01	1969 Dec 12 1212:00	Skua 2	-	INTA MP-6906	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-W1658	2440568.04	1969 Dec 12 1304	Skua	-	Su24H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1969-S670	2440569.00	1969 Dec 13 1200:00	Skua 2	-	INTA MP-6907	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S676	2440571.00	1969 Dec 15 1200:00	Skua 2	-	INTA MP-6908	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S679	2440572.00	1969 Dec 16 1156:00	Skua 2	-	INTA MP-6909	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-Y291	2440572.11	1969 Dec 16 1443	Skua	-	Su25H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1969-S681	2440572.99	1969 Dec 17 1150:00	Skua 2	-	INTA MP-6910	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-A208	2440573.25	1969 Dec 17 1753:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-S685	2440574.00	1969 Dec 18 1158:00	Skua 2	-	INTA MP-6911	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-S686	2440574.06	1969 Dec 18 1328:00	Skua 2	-	INTA MP-6912	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1969-W1704	2440575.23	1969 Dec 19 1735:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1716	2440579.22	1969 Dec 23 1720:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1727	2440583.23	1969 Dec 27 1736:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1730	2440585.28	1969 Dec 29 1846:59	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1969-W1734	2440586.24	1969 Dec 30 1745:00	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	DSI-5850	-	-
1970-W34	2440592.10	1970 Jan 05 1423:00	Skua	-	UCL 01	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-W50	2440594.10	1970 Jan 07 1426:18	Skua	-	UCL 02	0.000	SRC	SS	-	UCL/Groves	Aeron	ESRLV	-	-
1970-Y09	2440596.10	1970 Jan 9 1417	Skua	-	Su26H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-W63	2440596.11	1970 Jan 09 1444:00	Skua	-	UCL 03	0.000	SRC	SS	-	UCL/Groves	Aeron	ESRLV	-	-
1970-W73	2440599.11	1970 Jan 12 1439:00	Skua	-	UCL 04	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-S54	2440598.98	1970 Jan 12 1133:00	Skua 2	-	INTA MP-7001	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-Y14	2440599.08	1970 Jan 12 1353	Skua	-	Su22H	0.000	SRC	SS	-	UCW/Williams	Aeronomy	WDCRF	-	-
1970-Y16	2440601.11	1970 Jan 14 1440:00	Skua	-	UCL 05	0.000	SRC	SU	-	UCL/Groves	Aeron	ESRLV	-	-
1970-S72	2440603.00	1970 Jan 16 1200:00	Skua 2	-	INTA MP-7003	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-W113	2440604.12	1970 Jan 17 1446:00	Skua	-	UCL 06	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-S76	2440603.99	1970 Jan 17 1145:00	Skua 2	-	INTA MP-7004	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-W114	2440605.98	1970 Jan 19 1130:00	Skua	-	INTA S-7001	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W115	2440606.13	1970 Jan 19 1501:00	Skua	-	UCL 07	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-M01	2440606.05	1970 Jan 19 1316:00	Skua 2	-	INTA MP-7005	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S79	2440607.98	1970 Jan 21 1135:00	Skua 2	-	INTA MP-7006	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-W131	2440608.12	1970 Jan 21 1500:00	Skua	-	UCL 08	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-W146	2440610.13	1970 Jan 23 1506:00	Skua	-	UCL 09	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-W157	2440613.14	1970 Jan 26 1518:00	Skua	-	UCL 10	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-W167	2440615.14	1970 Jan 28 1518:00	Skua	-	UCL 11	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-W178	2440617.14	1970 Jan 30 1527:00	Skua	-	UCL 12	0.000	SRC	SS	-	UCL/Groves	Aeron	WDCRF	-	-
1970-S121	2440634.01	1970 Feb 16 1213:00	Skua 2	-	INTA MP-7007	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S122	2440635.00	1970 Feb 17 1202:00	Skua 2	-	INTA MP-7008	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-Y70	2440635.90	1970 Feb 18 0935	Skua	-	Su13T/C	0.000	SRC	SS	-	MSSL/PRL/Willmore	Ionospheric	WDCRF	-	-
1970-S126	2440636.00	1970 Feb 18 1153:00	Skua 2	-	INTA MP-7009	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S129	2440637.00	1970 Feb 19 1200:00	Skua 2	-	INTA MP-7010	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S131	2440638.00	1970 Feb 20 1200:00	Skua 2	-	INTA MP-7011	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S132	2440639.00	1970 Feb 21 1200:00	Skua 2	-	INTA MP-7012	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S134	2440641.00	1970 Feb 23 1207:00	Skua 2	-	INTA MP-7013	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S137	2440641.50	1970 Feb 24 0000:00	Skua 2	-	INTA SM-7001	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S138	2440641.51	1970 Feb 24 0016:00	Skua 2	-	INTA SM-7002	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S139	2440641.67	1970 Feb 24 0401:00	Skua 2	-	INTA SM-7003	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S141	2440641.83	1970 Feb 24 0800:00	Skua 2	-	INTA SM-7004	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S142	2440642.00	1970 Feb 24 1200:00	Skua 2	-	INTA SM-7005	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S144	2440642.33	1970 Feb 24 2000:00	Skua 2	-	INTA SM-7007	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S146	2440642.50	1970 Feb 25 0000:00	Skua 2	-	INTA SM-7008	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S148	2440642.67	1970 Feb 25 0400:00	Skua 2	-	INTA SM-7009	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S149	2440642.83	1970 Feb 25 0800:00	Skua 2	-	INTA SM-7010	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S150	2440642.85	1970 Feb 25 0820:00	Skua 2	-	INTA SM-7011	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S151	2440643.00	1970 Feb 25 1201:00	Skua 2	-	INTA SM-7012	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S152	2440643.17	1970 Feb 25 1600:00	Skua 2	-	INTA SM-7013	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S154	2440643.33	1970 Feb 25 2000:00	Skua 2	-	INTA SM-7014	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S155	2440643.50	1970 Feb 26 0000:00	Skua 2	-	INTA SM-7015	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S156	2440643.51	1970 Feb 26 0011:00	Skua 2	-	INTA SM-7016	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S157	2440643.67	1970 Feb 26 0400:00	Skua 2	-	INTA SM-7017	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S159	2440643.83	1970 Feb 26 0800:00	Skua 2	-	INTA SM-7018	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S162	2440644.33	1970 Feb 26 2000:00	Skua 2	-	INTA SM-7021	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S163	2440644.50	1970 Feb 27 0000:00	Skua 2	-	INTA SM-7022	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S164	2440644.67	1970 Feb 27 0400:00	Skua 2	-	INTA SM-7023	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S165	2440644.83	1970 Feb 27 0800:00	Skua 2	-	INTA SM-7024	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S166	2440645.00	1970 Feb 27 1200:00	Skua 2	-	INTA SM-7025	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S167	2440645.17	1970 Feb 27 1600:00	Skua 2	-	INTA SM-7026	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S168	2440645.34	1970 Feb 27 2010:00	Skua 2	-	INTA SM-7027	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1970-S169	2440645.37	1970 Feb 27 2055:00	Skua 2	-	INTA SM-7029	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S173	2440645.50	1970 Feb 28 0000:00	Skua 2	-	INTA SM-7030	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S175	2440645.67	1970 Feb 28 0400:00	Skua 2	-	INTA SM-7031	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S176	2440645.83	1970 Feb 28 0800:00	Skua 2	-	INTA SM-7032	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-S177	2440646.00	1970 Feb 28 1200:00	Skua 2	-	INTA MP-7014	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	-	-
1970-W336	2440649.53	1970 Mar 4 0049:59	Skua	-	INTA S-7002	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-S191	2440651.01	1970 Mar 05 1213:00	Skua 2	-	INTA MP-7015	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	SR12,613	-
1970-S192	2440651.01	1970 Mar 05 1217:00	Skua 2	-	INTA MP-7016	0.000	INTA	SS	-	INTA/MPAE/Sanchez,Rose	Ionos	WDCRF	SR12,613	-
1970-W350	2440652.07	1970 Mar 6 1345	Skua	-	ISRO 16.02	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-W365	2440654.07	1970 Mar 08 1345:00	Skua	-	ISRO-16.003	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-W374	2440656.09	1970 Mar 10 1415:00	Skua	-	ISRO-16.004	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M09	2440656.11	1970 Mar 10 1436	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-W388	2440658.07	1970 Mar 12 1345:00	Skua	-	ISRO-16.005	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M11	2440658.08	1970 Mar 12 1400	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-M12	2440659.11	1970 Mar 13 1436	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-W400	2440660.05	1970 Mar 14 1305:00	Skua	-	ISRO-16.006	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M13	2440660.10	1970 Mar 14 1420	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-W401	2440662.07	1970 Mar 16 1345:00	Skua	-	ISRO-16.007	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M14	2440662.09	1970 Mar 16 1412	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-W407	2440662.49	1970 Mar 16 2350:00	Skua	-	ISRO-16.008	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-W411	2440664.07	1970 Mar 18 1345:00	Skua	-	ISRO-16.009	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M15	2440664.09	1970 Mar 18 1416	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-S250	2440664.60	1970 Mar 19 0230:50	Skua 2	-	K70/01	0.000	RTG	SS	-	RTG/Witt	Aeron/Ionos	WDCRF/Sven	-	-
1970-S252	2440664.64	1970 Mar 19 0323:30	Skua 2	-	K70/02	0.000	RTG	SS	-	RTG/Witt	Aeron/Ionos	WDCRF/Sven	-	-
1970-S253	2440664.66	1970 Mar 19 0356:40	Skua 2	-	K70/03	0.000	RTG	SS	-	RTG/Witt	Aeron/Ionos	WDCRF/Sven	-	-
1970-S254	2440664.69	1970 Mar 19 0428:50	Skua 2	-	K70/04	0.000	RTG	SS	-	RTG/Witt	Aeron/Ionos	WDCRF/Sven	-	-
1970-S256	2440664.72	1970 Mar 19 0518:00	Skua 2	-	K70/05?	0.000	RTG	SS	-	RTG/Witt	Aeron/Ionos	WDCRF/Sven	-	-
1970-W422	2440666.07	1970 Mar 20 1345:00	Skua	-	ISRO-16.010	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M16	2440666.10	1970 Mar 20 1430	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-W427	2440668.07	1970 Mar 22 1335:00	Skua	-	ISRO-16.011	0.000	ISRO	SS	-	PRL/Pisharoty	Aeron	WDCRF	-	-
1970-M18	2440668.15	1970 Mar 22 1541	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	QJRMS98,668	-
1970-M19	2440669.10	1970 Mar 23 1430	Skua	-	-	0.000	UKMO	SS	-	UKMO/	Meteo	rocketservices	-	-
1970-Y136	2440688.05	1970 Apr 11 1306	Skua	-	Su28H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-Y137	2440688.17	1970 Apr 11 1606	Skua	-	Su27H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-Y139	2440690.89	1970 Apr 14 0915	Skua	-	Su16H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1970-Y140	2440691.02	1970 Apr 14 1233	Skua	-	Su17H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1970-Y144	2440691.92	1970 Apr 15 1005	Skua 2	-	Su15T/C	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1970-Y148	2440692.58	1970 Apr 16 0150	Skua 2	-	Su14T/C	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1970-Y152	2440694.05	1970 Apr 17 1306	Skua	-	Su18H	0.000	SRC	SS	-	MSSL/Willmore	Ionospheric	WDCRF	-	-
1970-W648	2440712.47	1970 May 5 2315:00	Skua	-	INTA S-7003	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W802	2440740.96	1970 Jun 3 1103:00	Skua	-	INTA S-7004	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-Y185	2440762.13	1970 Jun 24 1509	Skua	-	Su23H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-Y188	2440769.13	1970 Jul 1 1506	Skua	-	Su29H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1970-W999	2440776.42	1970 Jul 8 2159:59	Skua	-	INTA S-7005	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W1033	2440783.43	1970 Jul 15 2212:59	Skua	-	INTA S-7006	0.000	INTA	SS	-	INTA/	Meteo	DSI-5850	-	-
1970-W1901	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1902	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1903	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1904	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1905	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1906	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1907	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1908	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1909	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1910	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1911	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-W1912	2440829.50	1970 Sep	Skua	-	-	0.000	UKMO	SS	-	UKMO/Hamilton	Meteo	QJRMS98,668	-	-
1970-S605	2440904.39	1970 Nov 13 2127	Skua 2	-	AMM-S2-9	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1970-S637	2440930.02	1970 Dec 9 1230:00	Skua 2	-	INTA EMP-7001	0.000	INTA	SS	-	MPAE/INTA/Rose,Azcarraga	Ionos	WDCRF	PlanSpaSci20,871	-
1970-S640	2440932.15	1970 Dec 11 1537:00	Skua 2	-	INTA EMP-7002	0.000	INTA	SS	-	MPAE/INTA/Rose,Azcarraga	Ionos	WDCRF	PlanSpaSci20,871	-
1970-S642	2440932.99	1970 Dec 12 1140:00	Skua 2	-	INTA EMP-7003	0.000	INTA	SS	-	MPAE/INTA/Rose,Azcarraga	Ionos	WDCRF	PlanSpaSci20,871	-
1971-W21	2440960.13	1971 Jan 8 1502	Skua 2	-	Sk83/1	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W71	2440967.14	1971 Jan 15 1525	Skua 2	-	Sk83/2	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-A10	2440969.17	1971 Jan 17 1600	Skua 2	-	Sk83/3	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-Y28	2440970.50	1971 Jan 19	Skua	-	M--320A	0.000	UKMO	SS	-	UKMO/?	Aeron	WDCRF	-	-
1971-W93	2440971.14	1971 Jan 19 1520	Skua	-	Sk83/4	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W97	2440971.50	1971 Jan 20	Skua	-	M--325H	0.000	UKMO	SS	-	UKMO/?	Aeron	WDCRF	-	-
1971-Y35	2440972.50	1971 Jan 21	Skua	-	M--322A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W112	2440973.13	1971 Jan 21 1507:26	Skua 2	-	Sk83/5	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF/ESRLV	-	-
1971-W119	2440973.50	1971 Jan 22	Skua	-	M--327H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W120	2440973.50	1971 Jan 22	Skua	-	M--324A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W127	2440974.50	1971 Jan 23	Skua	-	M--329H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W130	2440975.16	1971 Jan 23 1553:30	Skua 2	-	Sk83/6	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF/ESRLV	-	-
1971-W133	2440977.13	1971 Jan 25 1510	Skua 2	-	Sk83/7	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W131	2440976.50	1971 Jan 25	Skua	-	M--331H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W142	2440977.50	1971 Jan 26	Skua	-	M--326A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-A12	2440979.14	1971 Jan 27 1525:40	Skua 2	-	Sk83/8	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF/ESRLV	-	-
1971-A13	2440979.50	1971 Jan 28	Skua	-	M--333H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W159	2440979.50	1971 Jan 28	Skua	-	M--328A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W173	2440981.22	1971 Jan 29 1721	Skua 2	-	Sk83/9	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	ESRLV: 1721UTC
1971-W177	2440983.20	1971 Jan 31 1645	Skua 2	-	Sk83/10	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W179	2440983.50	1971 Feb 01	Skua	-	M--335H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W194	2440985.50	1971 Feb 03	Skua	-	M--336H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W201	2440986.26	1971 Feb 3 1812	Skua 2	-	Sk83/11	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W206	2440986.50	1971 Feb 04	Skua	-	M--330A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W213	2440987.50	1971 Feb 05	Skua	-	M--337H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W222	2440990.50	1971 Feb 08	Skua	-	M--332A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-A15	2440991.37	1971 Feb 8 2048:17	Skua 2	-	Sk83/12	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF/ESRLV	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-W233	2440992.25	1971 Feb 9 1800	Skua 2	-	Sk83/13	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W236	2440992.50	1971 Feb 10	Skua	-	M--338H	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W237	2440992.50	1971 Feb 10	Skua	-	M--334A	0.000	UKMO	SS	-	UKMO/	Aeron	WDCRF	-	-
1971-W251	2440994.24	1971 Feb 11 1750	Skua 2	-	Sk83/14	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-W258	2440995.23	1971 Feb 12 1730	Skua 2	-	Sk83/15	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1971-M05	2441033.45	1971 Mar 22 2250:00	Skua 2	-	INTA AB-7101	0.000	INTA	SS	-	IASB/Ackerman	Aeron	WDCRF	-	-
1971-M06	2441034.43	1971 Mar 23 2215:00	Skua 2	-	INTA AB-7102	0.000	INTA	SS	-	IASB/Ackerman	Aeron	WDCRF	-	-
1971-M07	2441034.47	1971 Mar 23 2321:00	Skua 2	-	INTA AB-7103	0.000	INTA	SS	-	IASB/Ackerman	Aeron	WDCRF	-	-
1971-M08	2441035.32	1971 Mar 24 1942:00	Skua 2	-	INTA AB-7104	0.000	INTA	SS	-	IASB/Ackerman	Aeron	WDCRF	-	-
1971-M09	2441035.35	1971 Mar 24 2020:00	Skua 2	-	INTA AB-7105	0.000	INTA	SS	-	IASB/Ackerman	Aeron	WDCRF	-	-
1971-S299	2441093.44	1971 May 21 2235	Skua 2	-	INTA MP-7101	0.000	INTA	SS	-	INTA/Perez	Ionos	Serra	-	-
1971-S312	2441099.62	1971 May 28 0256:00	Skua 2	-	INTA MP-7102	0.000	INTA	SS	-	INTA/Azcarraga	Ionos	WDCRF	-	-
1971-S625	2441099.68	1971 May 28 0425	Skua 2	-	INTA MP-7103	0.000	INTA	SS	-	INTA/Perez	Ionos	WDC	Serra	-
1971-S314	2441099.69	1971 May 28 0431	Skua 2	-	INTA MP-7104	0.000	INTA	SS	-	INTA/Azcarraga	Ionos	WDC	Serra	-
1971-Y201	2441133.50	1971 Jul 1	Skua	-	SK39H [spurious?]	0.000	SRC	SS	-	UCW/Williams	Aeron?	JCM	-	-
1971-Y217	2441147.03	1971 Jul 14 1250	Skua	-	SK36H	0.000	SRC	SS	-	UCW/Williams	Ionos	WDCRF	-	-
1971-Y231	2441163.02	1971 Jul 30 1234	Skua	-	SK37H	0.000	SRC	SS	-	UCW/Williams	Ionos	WDCRF	-	-
1971-Y276	2441210.06	1971 Sep 15 1322	Skua	-	SK38H	0.000	SRC	SS	-	UCW/Williams	Ionos	WDCRF	-	-
1971-Y315	2441239.00	1971 Oct 14 1155	Skua	-	SK41H	0.000	SRC	SS	-	UCW/Williams	Ionos	WDCRF	-	-
1971-Y343	2441275.00	1971 Nov 19 1153	Skua	-	SK42H	0.000	SRC	SS	-	UCW/Williams	Ionos	WDCRF	-	-
1972-A03	2441322.05	1972 Jan 5 1314	Skua	-	SK30T/C	0.000	SRC	SF	U	PRL/SUSX/Rao,Martelli	Ionospheric Ba	WDCRF	-	-
1972-Y25	2441332.01	1972 Jan 15 1214	Skua	-	SK43H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1972-A06	2441334.53	1972 Jan 18 0037	Skua	-	SK31T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric Ba	WDCRF	-	-
1972-M01	2441348.06	1972 Jan 31 1322	Skua 2	-	SK32T/C	0.000	SRC	SS	-	PRL/SUSX/Rao,Martelli	Ionospheric Ba	WDCRF	-	-
1972-S167	2441422.01	1972 Apr 14 1218:00	Skua 2	-	INTA MSC-7201	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-Y129	2441426.98	1972 Apr 19 1137	Skua	-	SK45H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1972-S175	2441427.02	1972 Apr 19 1222:00	Skua 2	-	INTA MSC-7202	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S176	2441428.98	1972 Apr 21 1132:00	Skua 2	-	INTA MSCL-7201	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S757	2441433.97	1972 Apr 26 1123	Skua 2	-	INTA MSCL-7202	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	ElAren	-	-
1972-S181	2441435.97	1972 Apr 28 1119:00	Skua 2	-	INTA MSCL-7203	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S188	2441440.98	1972 May 03 1130:00	Skua 2	-	INTA MSC-7203	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S190	2441442.97	1972 May 05 1115:00	Skua 2	-	INTA MSCL-7204	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S191	2441447.97	1972 May 10 1122:00	Skua 2	-	INTA MSCL-7205	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S199	2441454.97	1972 May 17 1115:00	Skua 2	-	INTA MSC-7204	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-Y138	2441454.98	1972 May 17 1134	Skua	-	SK44H	0.000	SRC	SS	-	UCW/Williams	Ionospheric	WDCRF	-	-
1972-S209	2441461.96	1972 May 24 1108:00	Skua 2	-	INTA MSC-7205	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S229	2441468.97	1972 May 31 1115:00	Skua 2	-	INTA MSC-7206	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S233	2441475.97	1972 Jun 07 1123:00	Skua 2	-	INTA MSC-7207	0.000	INTA	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S240	2441482.98	1972 Jun 14 1125:00	Skua 2	-	INTA MSC-7208	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S245	2441489.98	1972 Jun 21 1125:00	Skua 2	-	INTA MSC-7209	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S758	2441496.97	1972 Jun 28 1115	Skua 2	-	INTA MSC-7210	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	ElAren	-	-
1972-W1576	2441498.50	1972 Jul	Skua	-	-	0.000	UKMO	SS	-	UKMO/Bridge	Meteor	GAN Post720710	-	-
1972-S253	2441503.97	1972 Jul 05 1117:00	Skua 2	-	INTA MSC-7211	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S267	2441510.98	1972 Jul 12 1135:00	Skua 2	-	INTA MSC-7212	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S342	2441602.68	1972 Oct 12 0414:00	Skua 2	-	SK19A	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric Ba	AND	WDCRF	-
1972-S352	2441609.01	1972 Oct 18 1209:00	Skua 2	-	INTA MSCLO-7201	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S354	2441611.00	1972 Oct 20 1207:00	Skua 2	-	INTA MSCLO-7202	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S360	2441614.18	1972 Oct 23 1614:57	Skua 2	-	SK20A	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric Ba	AND	WDCRF	-
1972-S363	2441616.01	1972 Oct 25 1208:00	Skua 2	-	INTA MSCLO-7203	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	WDCRF	-	-
1972-S371	2441620.16	1972 Oct 29 1548:00	Skua 2	-	SK21A	0.000	SRC	SS	-	SUSX/Martelli	Ionospheric Ba	AND	WDCRF	-
1973-Y01	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y02	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y03	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y04	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y05	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y06	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y07	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y08	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y09	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y10	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y11	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-Y12	2441682.50	1973	Skua	-	-	0.000	CNES?	SU	-	CNES/	Aeron?	CNES30	-	-
1973-S11	2441693.03	1973 Jan 10 1245:00	Skua 2	-	INTA MSCLO-7301	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S21	2441701.99	1973 Jan 19 1149:00	Skua 2	-	INTA MSCLO-7302	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-M01	2441702.98	1973 Jan 20 1138:00	Skua 2	-	INTA MSCL-7301	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S542	2441703.98	1973 Jan 21 1135	Skua 2	-	INTA MSC-7301	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	ElAren	-	-
1973-S23	2441704.98	1973 Jan 22 1138:00	Skua 2	-	INTA MSCLO-7303	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S30	2441706.98	1973 Jan 24 1137:00	Skua 2	-	INTA MSCLO-7304	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S33	2441707.99	1973 Jan 25 1147:00	Skua 2	-	INTA MSCL-7302	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S34	2441709.99	1973 Jan 27 1143:00	Skua 2	-	INTA MSCLO-7305	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S38	2441712.03	1973 Jan 29 1245:00	Skua 2	-	INTA MSCL-7303	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-M03	2441714.04	1973 Jan 31 1257:00	Skua 4	-	INTA MS4CLO-7301	0.000	INTA/DLR	SS	-	MPAE/Rose,Sanchez	Ionos	WDCRF	-	-
1973-S104	2441756.09	1973 Mar 14 1415:00	Skua 2	-	SUPARCO/MR/71	0.000	SUPA	SU	-	SUPA/Jafri	Aeron	WDCRF	-	-
1973-M04	2441757.09	1973 Mar 15 1415:00	Skua 2	-	SUPARCO/MR/72	0.000	SUPA	SS	-	SUPA/Jafri	Aeron	WDCRF	-	-
1973-S117	2441765.02	1973 Mar 23 1236:00	Skua 2	-	INTA MSC-7302	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-M06	2441768.02	1973 Mar 26 1235:00	Skua 2	-	INTA MSC-7303	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-S125	2441771.03	1973 Mar 29 1250:00	Skua 2	-	INTA MSC-7304	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-S138	2441776.00	1973 Apr 03 1205:00	Skua 2	-	INTA MSC-7305	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-S145	2441779.01	1973 Apr 06 1219:00	Skua 2	-	INTA MSC-7306	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-M08	2441791.10	1973 Apr 18 1430:00	Skua 2	-	SUPARCO/MR/73	0.000	SUPA	SS	-	SUPA/Jafri	Aeron	WDCRF	-	-
1973-W1621	2441946.66	1973 Sep 21 0344	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1622	2441947.15	1973 Sep 21 1539	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1623	2441947.69	1973 Sep 22 0431	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1624	2441950.54	1973 Sep 25 0051	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1625	2441951.27	1973 Sep 25 1835	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1626	2441951.54	1973 Sep 26 0101	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1627	2441952.11	1973 Sep 26 1435	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1628	2441953.10	1973 Sep 27 1420	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1629	2441953.63	1973 Sep 28 0306	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1630	2441954.64	1973 Sep 29 0324	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-W1631	2441956.67	1973 Oct 1 0402	Skua	-	CIMO	0.000	UKMO	SS	-	UKMO/	Meteo	SR15,143	-	-
1973-S359	2441975.02	1973 Oct 19 1236:00	Skua 2	-	INTA MSC2A-7301	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-S414	2442016.98	1973 Nov 30 1130:00	Skua 2	-	INTA MSCLO-7306	0.000	INTA/DLR	SS	-	MPAE/Rose,Cisneros	Ionos	WDCRF	-	-
1973-S416	2442019.99	1973 Dec 03 1139:00	Skua 2	-	INTA MSCLO-7307	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S417	2442021.07	1973 Dec 4 1345	Skua 2	-	AMM-S2-10	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1973-S419	2442021.25	1973 Dec 4 1800	Skua 2	-	AMM-S2-11	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1973-S420	2442021.44	1973 Dec 4 2234	Skua 2	-	AMM-S2-12	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1973-S421	2442021.79	1973 Dec 5 0652	Skua 2	-	AMM-S2-13	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1973-S422	2442021.99	1973 Dec 05 1146:00	Skua 2	-	INTA MSCLO-7308	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S423	2442022.09	1973 Dec 5 1405	Skua 2	-	AMM-S2-14	0.000	NRCC	SS	-	YORK/Schiff	Aeron	WDCRF	-	-
1973-S431	2442023.98	1973 Dec 07 1132:00	Skua 2	-	INTA MSCLO-7309	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S436	2442027.95	1973 Dec 11 1046:00	Skua 2	-	INTA MSCLO-7310	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S438	2442028.96	1973 Dec 12 1108:00	Skua 2	-	INTA MSCLO-7311	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S440	2442030.98	1973 Dec 14 1136:00	Skua 2	-	INTA MSCLO-7312	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1973-S441	2442032.98	1973 Dec 16 1130:00	Skua 2	-	INTA MSCLO-7313	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S53	2442057.98	1974 Jan 10 1130:00	Skua 2	-	INTA MSCLO-7401	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S54	2442058.99	1974 Jan 11 1140:00	Skua 2	-	INTA MSCLO-7402	0.000	INTA/DLR	SU	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S58	2442061.98	1974 Jan 14 1135:00	Skua 2	-	INTA MSCLO-7403	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S62	2442063.98	1974 Jan 16 1138:00	Skua 2	-	INTA MSCLO-7404	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S66	2442066.98	1974 Jan 19 1134:00	Skua 4	-	INTA M4SCL-7401	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S69	2442068.98	1974 Jan 21 1130:00	Skua 4	-	INTA MS4CLO-7401	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S75	2442070.98	1974 Jan 23 1130:00	Skua 4	-	INTA MS4CLO-7402	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1974-S77	2442072.98	1974 Jan 25 1130:00	Skua 4	-	INTA MS4CLO-7403	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Ionos	WDCRF	-	-
1975-S47	2442438.06	1975 Jan 25 1333:00	Skua 2	-	INTA MSCLO-7501	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Aeron/Ionos	WDCRF	-	-
1975-S54	2442443.09	1975 Jan 30 1410:00	Skua 4	-	INTA MS4CL-7501	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Aeron/Ionos	WDCRF	-	-
1975-S62	2442449.04	1975 Feb 05 1302:00	Skua 2	-	INTA MSCLO-7502	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Aeron/Ionos	WDCRF	-	-
1975-S143	2442567.97	1975 Jun 04 1122:00	Skua 2	-	INTA MSCL-7503	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Aeron/Ionos	ElAren	WDCRF (May)	- -
1975-S146	2442570.96	1975 Jun 07 1100:00	Skua 2	-	INTA MSCL-7504	0.000	INTA/DLR	SS	-	MPAE/Cisneros,Rose	Aeron/Ionos	ElAren	WDCRF (May)	- -
1975-S354	2442763.96	1975 Dec 17 1104:00	Skua 3	-	INTA MS3CL-7501	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S44	2442780.12	1976 Jan 2 1459	Skua 3	-	INTA MS3CLO-7601	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S48	2442782.16	1976 Jan 04 1547:00	Skua 3	-	INTA MS3CL-7601	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S50	2442782.46	1976 Jan 04 2258:00	Skua 4	-	INTA MS4CLOF-7601	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S51	2442784.16	1976 Jan 06 1546:00	Skua 2	-	INTA M3CL-7601	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S54	2442787.17	1976 Jan 09 1611:00	Skua 2	-	INTA MSCL-7602	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	JATP41,1105	-
1976-S56	2442790.10	1976 Jan 12 1420:00	Skua 3	-	INTA MS3CLO-7602	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	JATP41,1105	-
1976-S57	2442792.09	1976 Jan 14 1410:00	Skua 3	-	INTA MS3CL-7602	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	JATP41,1105	-
1976-M03	2442798.17	1976 Jan 20 1610:00	Skua 3	-	INTA MS3CLO-7603	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	JATP41,1105	-
1976-A03	2442799.15	1976 Jan 21 1540:00	Skua 2	-	INTA MSCL-7603	0.000	INTA/DLR	SF	U	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	-	-
1976-S70	2442799.44	1976 Jan 21 2230:00	Skua 4	-	INTA MS4CLOF-7602	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Auroral/Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S71	2442800.18	1976 Jan 22 1616:00	Skua 2	-	INTA MSCL-7604	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S74	2442801.17	1976 Jan 23 1610:00	Skua 2	-	INTA MSCL-7605	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S80	2442804.18	1976 Jan 26 1619:00	Skua 3	-	INTA MS3CL-7603	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S82	2442806.17	1976 Jan 28 1610:00	Skua 3	-	INTA MS3CL-7604	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S94	2442814.16	1976 Feb 05 1551:00	Skua 2	-	INTA MSCL-7606	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S95	2442814.44	1976 Feb 05 2230:00	Skua 4	-	INTA MS4CLOF-7603	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Auroral/Aeron/Ionos	WDCRF	-	-
1976-S98	2442817.15	1976 Feb 08 1534:00	Skua 2	-	INTA MSCL-7607	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Aeron/Ionos	WDCRF	JATP41,1105	-
1976-S412	2442903.40	1976 May 4 2130	Skua 4	-	INTA MS4CLOF-7604	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	-	-
1976-S175	2442903.70	1976 May 5 0443	Skua 2	-	INTA MSCL-7608	0.000	INTA/DLR	SS	-	MPAE/Rose,Widdel	Ionos	ElAren	ESA-SP291-80	-
1976-S413	2442904.40	1976 May 5 2130	Skua 4	-	INTA MS4CLOF-7605	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	-	-
1976-S414	2442907.15	1976 May 8 1531	Skua 2	-	INTA MSCLO-7601	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	-	-
1976-S415	2442914.15	1976 May 15 1531	Skua 2	-	INTA MSCLO-7602	0.000	INTA/DLR	SU	-	MPAE/Rose,Widdel	Aeron/Ionos	ElAren	-	-
1980-S198	2444554.52	1980 Nov 11 0032:00	Skua 2	-	MPSC-8001A	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	AND	-
1980-S260	2444554.56	1980 Nov 11 0121:30	Skua 2	-	E7	0.000	DFVLR	SS	-	DLR/Widdel?	Aeron	ESRLV	-	-
1980-S205	2444559.66	1980 Nov 16 0346:00	Skua 2	-	MPSC-8002A	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	AND	-
1980-S261	2444559.73	1980 Nov 16 0537:30	Skua 2	-	E7	0.000	DFVLR	SS	-	DLR/Widdel?	Aeron	ESRLV	-	-
1980-S216	2444571.66	1980 Nov 28 0344:36	Skua 2	-	MPSC-8003A	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	AND	-
1980-S262	2444574.59	1980 Dec 1 0209:30	Skua 2	-	E7	0.000	DFVLR	SS	-	DLR/Widdel?	Aeron	ESRLV	-	-
1981-Y427	2444948.42	1981 Dec 9 2201:59	Skua 4	-	E8	0.000	DFVLR	SS	-	DLR/?	Aeronomy?	ESA81	-	-
1981-Y428	2444948.46	1981 Dec 9 2255:30	Skua 2	-	E7	0.000	DFVLR	SS	-	DLR/?	Aeronomy?	ESA81	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A54	2437774.38	1962 Apr 19 2103	Skybolt ALBM	-	20025	PL.1	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	78	280	-
1962-A103	2437844.50	1962 Jun 29	Skybolt ALBM	-	20026	PL.2	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	12	-	-
1962-A154	2437920.50	1962 Sep 13	Skybolt ALBM	-	20027	PL.3	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	10?	-	-
1962-S626	2437933.09	1962 Sep 25 1409	Skybolt ALBM	-	20028	PL.4	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	100?	-	-
1962-A204	2437997.28	1962 Nov 28 1845	Skybolt ALBM	-	20031	GL.1	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	10?	-	-
1962-S583	2438021.09	1962 Dec 22 1415	Skybolt ALBM	-	20032	GL.2	-	-	B-52G-473	EGL	RW12/30?	AMR	LP1	580?	1568	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A54	2437774.38	1962 Apr 19 2103	Skybolt ALBM	-	20025	0.000	AFBSD	MF	S2I	-	Test	DEFE7.2160	ETR-IDX-FY62	St2/ftig
1962-A103	2437844.50	1962 Jun 29	Skybolt ALBM	-	20026	0.000	AFBSD	MF	S1I	-	Test	MR620709-10	ETR-IDX-FY62	St1/ftig
1962-A154	2437920.50	1962 Sep 13	Skybolt ALBM	-	20027	0.000	AFBSD	MF	S1G	-	Test	MR621024-10	ETR-IDX-FY63	-
1962-S626	2437933.09	1962 Sep 25 1409	Skybolt ALBM	-	20028	0.000	AFBSD	MF	S2P	-	Test	UPI/MR621001-12	ETR-IDX-FY63	St2 partial
1962-A204	2437997.28	1962 Nov 28 1845	Skybolt ALBM	-	20031	0.000	AFBSD	MF	S1G	-	Test	MR621203-10	ETR-IDX-FY63	-
1962-S583	2438021.09	1962 Dec 22 1415	Skybolt ALBM	-	20032	0.000	AFBSD	MS	-	-	Test	ETR-IDX-FY63	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-A27	2459860.50	2022 Oct 8	Skylark L	-	1	-	-	-	-	LANG	-	-	-	0	-	Norw. Sea

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-A27	2459860.50	2022 Oct 8	Skylark L	-	1	0.000	SKYR	AF	U	-	-	twitter.com	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2020-A18	2459078.50	2020 Aug 17?	Skylark Micro	-	1	-	-	-	-	LANG	-	-	-	27	-	Norw. Sea

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2020-A18	2459078.50	2020 Aug 17?	Skylark Micro	-	1	0.000	SKYR	AS	-	-	-	twitter.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1950-A64	2433636.50	1950 Dec 21	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	0?	-	-
1951-A05	2433713.50	1951 Mar 8	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A13	2433752.50	1951 Apr 16	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A18	2433774.50	1951 May 8	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A22	2433790.50	1951 May 24	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A33	2433823.50	1951 Jun 26	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A42	2433844.50	1951 Jul 17	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A52	2433866.50	1951 Aug 8	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A55	2433879.50	1951 Aug 21	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A57	2433888.50	1951 Aug 30	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A64	2433914.50	1951 Sep 25	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A65	2433921.50	1951 Oct 2	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A72	2433935.50	1951 Oct 16	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A77	2433943.50	1951 Oct 24	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A83	2433965.50	1951 Nov 15	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A88	2433979.50	1951 Nov 29	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1951-A96	2433994.50	1951 Dec 14	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1952-A10	2434036.50	1952 Jan 25	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1952-A21	2434043.50	1952 Feb 1	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1952-A33	2434062.50	1952 Feb 20	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1952-A54	2434099.50	1952 Mar 28	MX-775	-	-	-	-	-	-	HADC	SLED	-	-	10?	-	-
1952-A145	2434253.50	1952 Aug 29	MX-775	-	Dyn Model #2	-	-	-	-	CC	LA?	-	-	10?	-	-
1952-A169	2434286.50	1952 Oct 1	MX-775	-	Dyn Model #1	-	-	-	-	CC	LA?	-	-	10?	-	-
1952-A201	2434315.50	1952 Oct 30	MX-775	-	Dyn Model #3	-	-	-	-	CC	LA?	-	-	10?	-	-
1952-A248	2434342.50	1952 Nov 26	MX-775	-	N-25 GM-246	-	-	-	-	CC	LA?	-	-	10?	-	-
1952-A282	2434365.50	1952 Dec 19	MX-775	-	N-25 GM-972	-	-	-	-	CC	LA?	-	-	10?	-	-
1953-A47	2434414.50	1953 Feb 6	MX-775	-	N-25 GM-974	-	-	-	-	CC	LA?	-	-	10?	-	-
1953-A103	2434446.50	1953 Mar 10	MX-775	-	N-25 GM-2337	-	-	-	-	CC	LA?	-	-	10?	-	-
1953-A316	2434595.50	1953 Aug 6	Snark	-	N-69A GM-3391	-	-	-	-	CC	LA?	-	-	10?	-	-
1953-A406	2434665.50	1953 Oct 15	Snark	-	N-69A GM-3393	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A41	2434775.50	1954 Feb 2	Snark	-	N-69A GM-3395	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A66	2434791.50	1954 Feb 18	Snark	-	N-69A GM-3396	-	-	-	-	CC	LC2	-	-	10?	-	-
1954-A196	2434858.50	1954 Apr 26	Snark	-	N-69A GM-11111	-	-	-	-	CC	LC2	-	-	10?	-	-
1954-A317	2434896.50	1954 Jun 3	Snark	-	N-69A GM-3394-1	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A427	2434944.50	1954 Jul 21	Snark	-	N-69A GM-3392-1	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A531	2435006.50	1954 Sep 21	Snark	-	N-69B GM-11113	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A567	2435027.50	1954 Oct 12	Snark	-	N-69B GM-11114	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A630	2435058.50	1954 Nov 12	Snark	-	N-69B GM-11116	-	-	-	-	CC	LA?	-	-	10?	-	-
1954-A689	2435086.50	1954 Dec 10	Snark	-	N-69B GM-11115	-	-	-	-	CC	LA?	-	-	10?	-	-
1955-A17	2435120.50	1955 Jan 13	Snark	-	N-69B GM-13097	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A91	2435148.50	1955 Feb 10	Snark	-	N-69C GM-13106	-	-	-	-	CC	LC2	-	-	10?	-	-
1955-A259	2435203.50	1955 Apr 6	Snark	-	N-69C GM-13107	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A316	2435223.50	1955 Apr 26	Snark	-	N-69C GM-13108	-	-	-	-	CC	LC2	-	-	10?	-	-
1955-A359	2435240.50	1955 May 13	Snark	-	N-69A GM-11112	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A456	2435301.50	1955 Jul 13	Snark	-	N-69C GM-13112	-	-	-	-	CC	LC2	-	-	10?	-	-
1955-A464	2435328.50	1955 Aug 9	Snark	-	N-69C GM-13113	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A486	2435406.50	1955 Oct 26	Snark	-	N-69C 52-10972	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A491	2435437.50	1955 Nov 26	Snark	-	N-69C 52-10977	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A494	2435450.50	1955 Dec 9	Snark	-	N-69C 52-10973	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1955-A498	2435457.50	1955 Dec 16	Snark	-	N-69C 52-10974	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A09	2435499.50	1956 Jan 27	Snark	-	N-69C 52-10971	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A15	2435511.50	1956 Feb 8	Snark	-	N-69C 52-10978	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A21	2435520.50	1956 Feb 17	Snark	-	N-69C 52-10975	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A70	2435664.50	1956 Jul 10	Snark	-	N-69C 51-17577	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A76	2435680.50	1956 Jul 26	Snark	-	N-69C 52-10976	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A83	2435716.50	1956 Aug 31	Snark	-	N-69C 51-17571	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A87	2435729.50	1956 Sep 13	Snark	-	N-69C 52-10961	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A93	2435742.50	1956 Sep 26	Snark	-	N-69C 52-17578	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A97	2435748.50	1956 Oct 2	Snark	-	N-69C 52-10979	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A105	2435777.50	1956 Oct 31	Snark	-	N-69C 51-17572	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A111	2435791.50	1956 Nov 14	Snark	-	N-69D 52-10982	-	-	-	-	CC	LC2?	-	-	10?	-	-
1956-A117	2435812.50	1956 Dec 5	Snark	-	N-69D 53-8172	Impact in Brazil?	-	-	-	CC	LC1/2?	-	-	10?	-	-
1956-A127	2435827.50	1956 Dec 20	Snark	-	N-69D 53-8171	-	-	-	-	CC	LC2?	-	-	10?	-	-
1957-A03	2435849.50	1957 Jan 11	Snark	-	N-69D 52-10983	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A04	2435861.50	1957 Jan 23	Snark	-	N-69D 53-8173	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A08	2435874.50	1957 Feb 5	Snark	-	N-69D 52-10983?	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A13	2435887.50	1957 Feb 18	Snark	-	N-69D 53-8175	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A16	2435909.50	1957 Mar 12	Snark	-	N-69D 53-8174	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A19	2435910.50	1957 Mar 13	Snark	-	N-69D Inertial 1	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A25	2435943.50	1957 Apr 15	Snark	-	N-69D Inertial 2	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A26	2435944.50	1957 Apr 16	Snark	-	N-69D 53-8176	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A36	2435961.50	1957 May 3	Snark	-	N-69D 53-8178	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A44	2435986.50	1957 May 28	Snark	-	N-69D 53-8177	Last Northrop launch	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A53	2436009.50	1957 Jun 20	Snark	-	N-69E N-3321	-	-	-	-	CC	LC1	-	-	0?	-	-
1957-A64	2436036.50	1957 Jul 17	Snark	-	N-69D N-3313	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A81	2436067.12	1957 Aug 16 1446	Snark	-	N-69E N-3323	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A85	2436078.40	1957 Aug 27 2140	Snark	-	N-69D N-3317	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A101	2436101.12	1957 Sep 19 1446	Snark	-	N-69E N-3322	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1957-A115	2436112.50	1957 Oct 1	Snark	-	N-69D N-3316	-	-	-	-	CC	LC2	-	-	10?	-	-
1957-A126	2436143.43	1957 Oct 31 2221	Snark	-	N-69E N-3324	-	-	-	-	CC	LC1/2?	-	-	10?	8185	ASC
1957-A132	2436162.50	1957 Nov 20	Snark	-	N-69D N-3316-2	-	-	-	-	CC	LC1/2?	-	-	10?	-	St10/RTN
1957-A135	2436179.12	1957 Dec 6 1446	Snark	-	N-69E N-3326	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A05	2436228.50	1958 Jan 25	Snark	-	N-69E N-3327	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A09	2436248.50	1958 Feb 14	Snark	-	N-69E N-3328	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A14	2436270.50	1958 Mar 8	Snark	-	N-69E N-3330	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A29	2436296.50	1958 Apr 3	Snark	-	N-69E N-3329	-	-	-	-	CC	LC1/2?	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A41	2436331.18	1958 May 7 1620?	Snark	-	N-69E N-3409	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A49	2436351.50	1958 May 28	Snark	-	N-69E N-3410	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A63	2436382.09	1958 Jun 27 1409	Snark	-	N-69E N-3413	-	-	-	-	CC	LC2	-	-	10?	-	-
1958-A103	2436441.64	1958 Aug 26 0320	Snark	-	N-69E N-3411	-	-	-	-	CC	LC2	-	-	10?	-	-
1958-A106	2436445.81	1958 Aug 30 0725	Snark	-	N-69E N-3412	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A120	2436465.86	1958 Sep 19 0835	Snark	-	N-69E N-3414	-	-	-	-	CC	LC2	-	-	10?	-	-
1958-A139	2436499.88	1958 Oct 23 0910	Snark	-	N-69D N-3318	-	-	-	-	CC	LC1	-	-	10?	-	-
1958-A141	2436515.89	1958 Nov 8 0925	Snark	-	N-69D N-3317	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A162	2436548.50	1958 Dec 11	Snark	-	N-69D N-3319	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1958-A164	2436553.92	1958 Dec 16 1000?	Snark	-	N-69D N-3308	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A26	2436611.96	1959 Feb 12 1058	Snark	-	N-69D N-3312-2	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A45	2436637.88	1959 Mar 10 0901	Snark	-	N-69D N-3320	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A59	2436665.56	1959 Apr 7 0126	Snark	-	SM-62A N-3422	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A64	2436679.87	1959 Apr 21 0855	Snark	-	N-69D N-3320-1	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A75	2436694.65	1959 May 6 0336	Snark	-	SM-62A N-3423	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A82	2436715.61	1959 May 27 0237	Snark	-	SM-62A N-3424	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A113	2436751.77	1959 Jul 2 0624	Snark	-	N-69D N-3320	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A165	2436836.50	1959 Sep 25	Snark	-	SM-62A N-3415	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1959-A189	2436879.50	1959 Nov 7 0000	Snark	-	SM-62A N-3417	-	-	-	-	CC	LC2	-	-	10?	-	-
1959-A203	2436914.45	1959 Dec 11 2244	Snark	-	SM-62A N-3416	-	-	-	-	CC	LC2	-	-	10?	-	-
1959-A206	2436919.17	1959 Dec 16 1612	Snark	-	N-69D N-3317-3	-	-	-	-	CC	LC1	-	-	10?	-	-
1960-A44	2436976.50	1960 Feb 12	Snark	-	SM-62A N-3425	-	-	-	-	CC	LC1	-	-	10?	-	-
1960-A60	2436996.50	1960 Mar 3	Snark	-	SM-62A N-3426	-	-	-	-	CC	LC2	-	-	10?	-	-
1960-A92	2437030.50	1960 Apr 6	Snark	-	SM-62A N-3427	-	-	-	-	CC	LC2	-	-	10?	-	-
1960-A123	2437070.50	1960 May 16	Snark	-	SM-62A N-3444	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A152	2437101.50	1960 Jun 16	Snark	-	SM-62A N-3445	-	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A163	2437123.50	1960 Jul 8	Snark	-	SM-62A N-3446	Cat IIE-6, Sta12	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A210	2437173.38	1960 Aug 26 2113	Snark	-	SM-62A N-3448	Cat IIE-7, Sta12	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A230	2437204.36	1960 Sep 26 2042	Snark	-	SM-62A N-3452	Cat IIE-8, Sta12	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A245	2437221.50	1960 Oct 14	Snark	-	SM-62A N-3454	Cat IIE-9	-	-	-	CC	LC1/2?	-	-	10?	-	-
1960-A261	2437253.18	1960 Nov 14 1625	Snark	-	SM-62A N-3460	Cat IIE-10	-	-	-	CC	LC1/2?	-	-	1?	-	-
1960-A289	2437274.36	1960 Dec 5 2038	Snark	-	SM-62A N-3458	Cat IIE-11, Sta12	-	-	-	CC	LC1/2?	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1950-A64	2433636.50	1950 Dec 21	MX-775	-	-	0.000	HADC	MF	U	-	Test	Werrell85	-	-
1951-A05	2433713.50	1951 Mar 8	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A13	2433752.50	1951 Apr 16	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A18	2433774.50	1951 May 8	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A22	2433790.50	1951 May 24	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A33	2433823.50	1951 Jun 26	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A42	2433844.50	1951 Jul 17	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A52	2433866.50	1951 Aug 8	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A55	2433879.50	1951 Aug 21	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A57	2433888.50	1951 Aug 30	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A64	2433914.50	1951 Sep 25	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A65	2433921.50	1951 Oct 2	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A72	2433935.50	1951 Oct 16	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A77	2433943.50	1951 Oct 24	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A83	2433965.50	1951 Nov 15	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A88	2433979.50	1951 Nov 29	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1951-A96	2433994.50	1951 Dec 14	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1952-A10	2434036.50	1952 Jan 25	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1952-A21	2434043.50	1952 Feb 1	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1952-A33	2434062.50	1952 Feb 20	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1952-A54	2434099.50	1952 Mar 28	MX-775	-	-	0.000	HADC	MS	-	-	Test	Werrell85	-	-
1952-A145	2434253.50	1952 Aug 29	MX-775	-	Dyn Model #2	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1952-A169	2434286.50	1952 Oct 1	MX-775	-	Dyn Model #1	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1952-A201	2434315.50	1952 Oct 30	MX-775	-	Dyn Model #3	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1952-A248	2434342.50	1952 Nov 26	MX-775	-	N-25 GM-246	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1952-A282	2434365.50	1952 Dec 19	MX-775	-	N-25 GM-972	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1953-A47	2434414.50	1953 Feb 6	MX-775	-	N-25 GM-974	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1953-A103	2434446.50	1953 Mar 10	MX-775	-	N-25 GM-2337	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1953-A316	2434595.50	1953 Aug 6	Snark	-	N-69A GM-3391	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1953-A406	2434665.50	1953 Oct 15	Snark	-	N-69A GM-3393	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A41	2434775.50	1954 Feb 2	Snark	-	N-69A GM-3395	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A66	2434791.50	1954 Feb 18	Snark	-	N-69A GM-3396	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1954-A196	2434858.50	1954 Apr 26	Snark	-	N-69A GM-11111	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1954-A317	2434896.50	1954 Jun 3	Snark	-	N-69A GM-3394-1	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A427	2434944.50	1954 Jul 21	Snark	-	N-69A GM-3392-1	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A531	2435006.50	1954 Sep 21	Snark	-	N-69B GM-11113	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A567	2435027.50	1954 Oct 12	Snark	-	N-69B GM-11114	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A630	2435058.50	1954 Nov 12	Snark	-	N-69B GM-11116	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1954-A689	2435086.50	1954 Dec 10	Snark	-	N-69B GM-11115	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A17	2435120.50	1955 Jan 13	Snark	-	N-69B GM-13097	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A91	2435148.50	1955 Feb 10	Snark	-	N-69C GM-13106	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A259	2435203.50	1955 Apr 6	Snark	-	N-69C GM-13107	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A316	2435223.50	1955 Apr 26	Snark	-	N-69C GM-13108	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A359	2435240.50	1955 May 13	Snark	-	N-69A GM-11112	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A456	2435301.50	1955 Jul 13	Snark	-	N-69C GM-13112	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1955-A464	2435328.50	1955 Aug 9	Snark	-	N-69C GM-13113	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A486	2435406.50	1955 Oct 26	Snark	-	N-69C 52-10972	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A491	2435437.50	1955 Nov 26	Snark	-	N-69C 52-10977	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A494	2435450.50	1955 Dec 9	Snark	-	N-69C 52-10973	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1955-A498	2435457.50	1955 Dec 16	Snark	-	N-69C 52-10974	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A09	2435499.50	1956 Jan 27	Snark	-	N-69C 52-10971	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A15	2435511.50	1956 Feb 8	Snark	-	N-69C 52-10978	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A21	2435520.50	1956 Feb 17	Snark	-	N-69C 52-10975	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A70	2435664.50	1956 Jul 10	Snark	-	N-69C 51-17577	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A76	2435680.50	1956 Jul 26	Snark	-	N-69C 52-10976	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A83	2435716.50	1956 Aug 31	Snark	-	N-69C 51-17571	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A87	2435729.50	1956 Sep 13	Snark	-	N-69C 52-10961	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A93	2435742.50	1956 Sep 26	Snark	-	N-69C 52-17578	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A97	2435748.50	1956 Oct 2	Snark	-	N-69C 52-10979	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A105	2435777.50	1956 Oct 31	Snark	-	N-69C 51-17572	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A111	2435791.50	1956 Nov 14	Snark	-	N-69D 52-10982	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1956-A117	2435812.50	1956 Dec 5	Snark	-	N-69D 53-8172	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1956-A127	2435827.50	1956 Dec 20	Snark	-	N-69D 53-8171	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A03	2435849.50	1957 Jan 11	Snark	-	N-69D 52-10983	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A04	2435861.50	1957 Jan 23	Snark	-	N-69D 53-8173	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A08	2435874.50	1957 Feb 5	Snark	-	N-69D 52-10983?	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A13	2435887.50	1957 Feb 18	Snark	-	N-69D 53-8175	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A16	2435909.50	1957 Mar 12	Snark	-	N-69D 53-8174	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A19	2435910.50	1957 Mar 13	Snark	-	N-69D Inertial 1	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A25	2435943.50	1957 Apr 15	Snark	-	N-69D Inertial 2	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A26	2435944.50	1957 Apr 16	Snark	-	N-69D 53-8176	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A36	2435961.50	1957 May 3	Snark	-	N-69D 53-8178	0.000	AFMTC	MF	U	-	Test	MT60-2544	-	-
1957-A44	2435986.50	1957 May 28	Snark	-	N-69D 53-8177	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A53	2436009.50	1957 Jun 20	Snark	-	N-69E N-3321	0.000	AFMTC	MF	U	-	Test	MT60-2544	Cleary	-
1957-A64	2436036.50	1957 Jul 17	Snark	-	N-69D N-3313	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A81	2436067.12	1957 Aug 16 1446	Snark	-	N-69E N-3323	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A85	2436078.40	1957 Aug 27 2140	Snark	-	N-69D N-3317	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	-
1957-A101	2436101.12	1957 Sep 19 1446	Snark	-	N-69E N-3322	0.000	AFMTC	MS	-	-	Test	Wire	MT60-2544	EST
1957-A115	2436112.50	1957 Oct 1	Snark	-	N-69D N-3316	0.000	AFMTC	MS	-	-	Test	MT60-2544	Cleary	-
1957-A126	2436143.43	1957 Oct 31 2221	Snark	-	N-69E N-3324	0.000	AFMTC	MS	-	-	Test	Wire	MT60-2544	-
1957-A132	2436162.50	1957 Nov 20	Snark	-	N-69D N-3316-2	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1957-A135	2436179.12	1957 Dec 6 1446	Snark	-	N-69E N-3326	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	-
1958-A05	2436228.50	1958 Jan 25	Snark	-	N-69E N-3327	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1958-A09	2436248.50	1958 Feb 14	Snark	-	N-69E N-3328	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1958-A14	2436270.50	1958 Mar 8	Snark	-	N-69E N-3330	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1958-A29	2436296.50	1958 Apr 3	Snark	-	N-69E N-3329	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A41	2436331.18	1958 May 7 1620?	Snark	-	N-69E N-3409	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	-
1958-A49	2436351.50	1958 May 28	Snark	-	N-69E N-3410	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1958-A63	2436382.09	1958 Jun 27 1409	Snark	-	N-69E N-3413	0.000	556SMS	MS	-	-	Test	Ulrich	MT60-2544	EST
1958-A103	2436441.64	1958 Aug 26 0320	Snark	-	N-69E N-3411	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	Cleary
1958-A106	2436445.81	1958 Aug 30 0725	Snark	-	N-69E N-3412	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	-
1958-A120	2436465.86	1958 Sep 19 0835	Snark	-	N-69E N-3414	0.000	AFMTC	MS	-	-	Test	Ulrich	MT60-2544	EST
1958-A139	2436499.88	1958 Oct 23 0910	Snark	-	N-69D N-3318	0.000	AFMTC	MS	-	-	Test	Ulrich/Wire	MT60-2544	Cleary
1958-A141	2436515.89	1958 Nov 8 0925	Snark	-	N-69D N-3317	0.000	AFMTC	MS	-	-	Test	Ulrich/Wire	MT60-2544	-
1958-A162	2436548.50	1958 Dec 11	Snark	-	N-69D N-3319	0.000	AFMTC	MS	-	-	Test	MT60-2544	-	-
1958-A164	2436553.92	1958 Dec 16 1000?	Snark	-	N-69D N-3308	0.000	AFMTC	MS	-	-	Test	Wire	MT60-2544	-
1959-A26	2436611.96	1959 Feb 12 1058	Snark	-	N-69D N-3312-2	0.000	AFMTC	MS	-	-	Test	Wire	MT60-2544	-
1959-A45	2436637.88	1959 Mar 10 0901	Snark	-	N-69D N-3320	0.000	AFMTC	MS	-	-	Test	Wire	MT60-2544	-
1959-A59	2436665.56	1959 Apr 7 0126	Snark	-	SM-62A N-3422	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1959-A64	2436679.87	1959 Apr 21 0855	Snark	-	N-69D N-3320-1	0.000	AFMTC	MS	-	-	OT	Ulrich/Wire	MT60-2544	Cleary
1959-A75	2436694.65	1959 May 6 0336	Snark	-	SM-62A N-3423	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1959-A82	2436715.61	1959 May 27 0237	Snark	-	SM-62A N-3424	0.000	AFMTC	MS	-	-	OT	Wire	MT60-2544	-
1959-A113	2436751.77	1959 Jul 2 0624	Snark	-	N-69D N-3320	0.000	AFMTC	MS	-	-	OT	Ulrich	MT60-2544	-
1959-A165	2436836.50	1959 Sep 25	Snark	-	SM-62A N-3415	0.000	AFMTC	MS	-	-	OT	MT60-2544	-	-
1959-A189	2436879.50	1959 Nov 7 0000	Snark	-	SM-62A N-3417	0.000	AFMTC	MS	-	-	OT	Ulrich/Wire	MT60-2544	Cleary
1959-A203	2436914.45	1959 Dec 11 2244	Snark	-	SM-62A N-3416	0.000	AFMTC	MS	-	-	OT	Ulrich	MT60-2544	Cleary
1959-A206	2436919.17	1959 Dec 16 1612	Snark	-	N-69D N-3317-3	0.000	AFMTC	MS	-	-	OT	Ulrich	MT60-2544	Cleary
1960-A44	2436976.50	1960 Feb 12	Snark	-	SM-62A N-3425	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1960-A60	2436996.50	1960 Mar 3	Snark	-	SM-62A N-3426	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1960-A92	2437030.50	1960 Apr 6	Snark	-	SM-62A N-3427	0.000	AFMTC	MS	-	-	OT	MT60-2544	Cleary	-
1960-A123	2437070.50	1960 May 16	Snark	-	SM-62A N-3444	0.000	AFMTC	MS	-	-	OT	MT60-2544	-	-
1960-A152	2437101.50	1960 Jun 16	Snark	-	SM-62A N-3445	0.000	AFMTC	MS	-	-	OT	MT60-2544	-	-
1960-A163	2437123.50	1960 Jul 8	Snark	-	SM-62A N-3446	0.000	702SMW	MS	-	-	OT	MT60-2544	-	-
1960-A210	2437173.38	1960 Aug 26 2113	Snark	-	SM-62A N-3448	0.000	SAC	MS	-	-	OT	Ulrich	MT60-2544	EST
1960-A230	2437204.36	1960 Sep 26 2042	Snark	-	SM-62A N-3452	0.000	SAC	MS	-	-	OT	Ulrich/Wire	MT60-2544	-
1960-A245	2437221.50	1960 Oct 14	Snark	-	SM-62A N-3454	0.000	SAC	MS	-	-	OT	MT60-2544	-	-
1960-A261	2437253.18	1960 Nov 14 1625	Snark	-	SM-62A N-3460	0.000	SAC	MF	U	-	OT	Ulrich/Wire	MT60-2544	-
1960-A289	2437274.36	1960 Dec 5 2038	Snark	-	SM-62A N-3458	0.000	SAC	MS	-	-	OT	Ulrich/Wire	MT60-2544	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-W53	2438850.50	1965 Apr	Sonda 1	-	1	-	-	-	-	CLBI	-	-	-	65?	-	-
1966-W363	2439435.08	1966 Nov 5 1355	Sonda 1	?	D-4C	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W364	2439442.07	1966 Nov 12 1338	Sonda 1	?	D-3C	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W365	2439442.09	1966 Nov 12 1408	Sonda 1	?	D-10C	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W366	2439442.12	1966 Nov 12 1450	Sonda 1	?	D-15C	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W367	2439442.12	1966 Nov 12 1455	Sonda 1	?	D-4	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W368	2439442.13	1966 Nov 12 1508	Sonda 1	?	D-11	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W369	2439442.14	1966 Nov 12 1522	Sonda 1	?	D-13	-	-	-	-	CASS	-	-	-	65?	-	-
1966-W370	2439442.15	1966 Nov 12 1535	Sonda 1	?	D-16C	-	-	-	-	CASS	-	-	-	65?	-	-
1973-W1645	2441952.12	1973 Sep 26 1500	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1646	2441952.19	1973 Sep 26 1630	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1647	2441952.38	1973 Sep 26 2100	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1648	2441951.50	1973 Sep 26?	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1649	2441952.50	1973 Sep 27 0000	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1650	2441952.71	1973 Sep 27 0500	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1651	2441952.81	1973 Sep 27 0730	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1973-W1652	2441953.04	1973 Sep 27 1300	Sonda 2	-	-	Diurnal	-	-	-	CLBI	-	-	-	60?	-	-
1985-A15	2446399.50	1985 Dec	VLS-R1	-	VLS-R1	-	-	-	-	CLBI	-	-	-	10?	-	-
1989-M03	2447664.50	1989 May 18?	VLS-R2	-	VLS-R2	-	-	-	-	CLBI	-	-	-	40?	-	-
1990-S42	2447943.50	1990 Feb 21	Sonda 2	-	XV-53	Alcantara	-	-	-	ALCA	-	-	-	101	-	-
1990-S159	2448221.50	1990 Nov 26	Sonda 2	-	XV-54	Manival	-	-	-	ALCA?	-	-	-	91	-	-
1991-S180	2448600.38	1991 Dec 9 2105	Sonda 2	-	XV-55	Aguas Belas	-	-	-	ALCA	-	-	-	88	-	-
1992-A16	2448926.50	1992 Oct 31	Sonda 2	-	XV-56	Ponta de Areia	-	-	-	ALCA?	-	-	-	32	-	-
1993-S24	2449068.50	1993 Mar 22	Sonda 2	-	XV-57	Maruda	-	-	-	ALCA?	-	-	-	102	-	-
1994-S40	2449525.50	1994 Jun 22	Sonda 2	-	XV-58	Oituia	-	-	-	CLBI?	-	-	-	93	-	-
1996-S52	2450323.50	1996 Aug 28	Sonda 2	-	-	-	-	-	-	CLBI	-	-	-	87	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-W53	2438850.50	1965 Apr	Sonda 1	-	1	0.000	IAE	SS	-	INPE/	Test	www.iae.cta.br	-	-
1966-W363	2439435.08	1966 Nov 5 1355	Sonda 1	?	D-4C	0.000	IAE	SS	-	INPE/	Ionos	WDCRF	-	-
1966-W364	2439442.07	1966 Nov 12 1338	Sonda 1	?	D-3C	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W365	2439442.09	1966 Nov 12 1408	Sonda 1	?	D-10C	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W366	2439442.12	1966 Nov 12 1450	Sonda 1	?	D-15C	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W367	2439442.12	1966 Nov 12 1455	Sonda 1	?	D-4	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W368	2439442.13	1966 Nov 12 1508	Sonda 1	?	D-11	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W369	2439442.14	1966 Nov 12 1522	Sonda 1	?	D-13	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1966-W370	2439442.15	1966 Nov 12 1535	Sonda 1	?	D-16C	0.000	IAE	SS	-	INPE/	Eclipse	WDCRF	-	-
1973-W1645	2441952.12	1973 Sep 26 1500	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1646	2441952.19	1973 Sep 26 1630	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1647	2441952.38	1973 Sep 26 2100	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1648	2441951.50	1973 Sep 26?	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1649	2441952.50	1973 Sep 27 0000	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1650	2441952.71	1973 Sep 27 0500	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1651	2441952.81	1973 Sep 27 0730	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1973-W1652	2441953.04	1973 Sep 27 1300	Sonda 2	-	-	0.000	IAE	SS	-	IAE/	Meteo	SR16,393	-	-
1985-A15	2446399.50	1985 Dec	VLS-R1	-	VLS-R1	0.000	IAE	SF	S1	INPE/	Test	SpacePolicy7.72	-	-
1989-M03	2447664.50	1989 May 18?	VLS-R2	-	VLS-R2	0.000	IAE	SS	-	INPE/	Test	JCM	JSD94-196	-
1990-S42	2447943.50	1990 Feb 21	Sonda 2	-	XV-53	0.000	INPE/IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1990-S159	2448221.50	1990 Nov 26	Sonda 2	-	XV-54	0.000	INPE/IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1991-S180	2448600.38	1991 Dec 9 2105	Sonda 2	-	XV-55	0.000	INPE/IAE	SS	-	INPE/SASK/Batista,Llew.	Aeron	JGR101,7917	ESA-SP370	-
1992-A16	2448926.50	1992 Oct 31	Sonda 2	-	XV-56	0.000	INPE/IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1993-S24	2449068.50	1993 Mar 22	Sonda 2	-	XV-57	0.000	INPE/IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1994-S40	2449525.50	1994 Jun 22	Sonda 2	-	XV-58	0.000	INPE/IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1996-S52	2450323.50	1996 Aug 28	Sonda 2	-	-	0.000	INPE/IAE	SS	-	INPE/	Ionos?	Wire	Wire	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-A11	2442834.50	1976 Feb 26	Sonda 3	-	XV-01	Serido	-	-	-	CLBI	-	-	-	47	-	-
1976-S295	2443042.50	1976 Sep 21	Sonda 3	-	XV-02	-	-	-	-	CLBI	-	-	-	543	-	-
1977-S141	2443233.50	1977 Mar 31	Sonda 3	-	XV-03	-	-	-	-	CLBI	-	-	-	546	-	-
1977-S262	2443435.50	1977 Oct 19	Sonda 3	-	XV-04	-	-	-	-	CLBI	-	-	-	590	-	-
1978-S126	2443625.29	1978 Apr 26 1900	Sonda 3	-	XV-05	-	-	-	-	CLBI	-	-	-	615	-	-
1978-S216	2443778.50	1978 Sep 27	Sonda 3	M1	XV-06	-	-	-	-	CLBI	-	-	-	230	-	-
1979-S192	2444108.50	1979 Aug 23	Sonda 3	M2	XV-07	-	-	-	-	CLBI	-	-	-	248	-	-
1980-S159	2444478.50	1980 Aug 27	Sonda 3	M1	XV-08	-	-	-	-	CLBI	-	-	-	245	-	-
1980-S240	2444595.50	1980 Dec 22	Sonda 3	-	XV-09	-	-	-	-	CLBI	-	-	-	600	-	-
1981-S183	2444948.50	1981 Dec 10	Sonda 3	M1	XV-10	-	-	-	-	CLBI	-	-	-	239	-	-
1982-S135	2445150.50	1982 Jun 30	Sonda 3	-	XV-11	BIME Test Flight	-	-	-	CLBI	-	-	-	549	-	-
1982-S160	2445221.41	1982 Sep 8 2152	Sonda 3	-	XV-12	GL A20.123-01 BIME	-	-	-	CLBI	-	-	-	525	-	-
1982-S165	2445226.38	1982 Sep 13 2105	Sonda 3	-	XV-13	GL A20.123-02 BIME	-	-	-	CLBI	-	-	-	506	-	-
1982-S168	2445230.37	1982 Sep 17 2056	Sonda 3	-	XV-14	Colored Bubbles	-	-	-	CLBI	-	-	-	335	-	-
1982-S169	2445231.36	1982 Sep 18 2045	Sonda 3	-	XV-15	Colored Bubbles	-	-	-	CLBI	-	-	-	335	-	-
1983-S108	2445486.50	1983 Jun 1	Sonda 3	-	XV-16	Manicore	-	-	-	CLBI?	-	-	-	599	-	-
1983-S197	2445639.44	1983 Oct 31 2235	Sonda 3	-	XV-17	GL A20.327-01 (IMS)	-	-	-	WI	-	-	-	25	-	-
1983-M02	2445652.93	1983 Nov 14 1020	Sonda 3	-	XV-18	GL A20.327-02 (IMS)	-	-	-	WI	-	-	-	15	-	-
1984-S103	2445908.25	1984 Jul 26 1805	Sonda 3	-	XV-19	-	-	-	-	CLBI	-	-	-	566	-	-
1985-S141	2446411.48	1985 Dec 11 2330	Sonda 3	-	XV-20	-	-	-	-	CLBI	-	-	-	516	-	-
1986-S104	2446735.58	1986 Nov 1 0159	Sonda 3	-	XV-21	INPE-003/86	-	-	-	CLBI	-	-	-	444	-	-
1990-S168	2448225.50	1990 Nov 30	Sonda 3	-	XV-22	-	-	-	-	CLBI?	-	-	-	500	-	-
1991-S100	2448375.50	1991 Apr 29	Sonda 3	-	XV-23	-	-	-	-	CLBI?	-	-	-	441	-	-
1992-S47	2448774.62	1992 Jun 1 0252	Sonda 3	-	XV-24	MULTIFOT	-	-	-	ALCA	UL	-	-	282	-	-
1993-S69	2449308.50	1993 Nov 17	Sonda 3	-	XV-25	-	-	-	-	CLBI?	-	-	-	555	-	-
1995-S88	2450070.55	1995 Dec 19 0117	Sonda 3	-	XV-26?	-	-	-	-	ALCA	UL	-	-	557	-	-
1997-S34	2450567.20	1997 Apr 28 1642	VS-30	-	XV-01	DLR AL-VS30-223	-	-	-	ALCA	UL	-	-	128	-	-
1997-S69	2450733.55	1997 Oct 12 0119	VS-30	-	XV-02 RONALD	DLR AL-VS30-226	-	-	-	AND	-	-	-	120	-	-
1998-S07	2450845.49	1998 Jan 31 2343	VS-30	-	XV-03 RONALD 2	DLR AL-VS30-229	-	-	-	AND	-	-	-	120	-	-
1999-S12	2451252.91	1999 Mar 15 0952	VS-30	-	XV-04	Operacao San Marcos	-	-	-	ALCA	UL	-	-	128	-	-
2000-S04	2451581.19	2000 Feb 6 1637	VS-30	-	XV-05	Lencois Maranhenses	-	-	-	ALCA	UL	-	-	148	-	-
2000-S47	2451778.34	2000 Aug 21 2014	VS-30/Orion	-	XV-01	Baronesa	-	-	-	ALCA	UL	-	-	315	-	-
2000-S65	2451888.01	2000 Dec 9 1220	Sonda 3	-	XV-30	Alecrim	-	-	-	CLBI	-	-	-	430	-	-
2002-S32	2452406.70	2002 May 12 0447	Sonda 3	-	XV-31	Parnamirim F2Glow-2	-	-	-	CLBI	-	-	-	593	-	-
2002-S73	2452602.43	2002 Nov 23 2218	VS-30/Orion	-	XV-02	Piraperna	-	-	-	ALCA	UL	-	-	434	-	-
2002-S75	2452610.02	2002 Dec 1 1233	VS-30	-	XV-06	Cuma	-	-	-	ALCA	UL	-	-	60	-	-
2004-S61	2453302.20	2004 Oct 23 1651:00	VSB-30	-	XV-01	Cajuana	-	-	-	ALCA	UL	-	-	240	-	-
2005-S46	2453671.07	2005 Oct 27 1345:00	VS-30/Orion	-	V03	DLR SHEFEX	-	-	-	AND	-	-	-	211	-	-
2005-S01	2453705.88	2005 Dec 1 0904	VSB-30	-	V02	DLR TEXUS 42 (EML-1)	-	-	-	ESR	S	-	-	263	-	-
2006-S20	2453866.84	2006 May 11 0812	VSB-30	-	V03	DLR TEXUS 43	-	-	-	ESR	S	-	-	237	-	-
2007-S29	2454301.13	2007 Jul 19 1513	VSB-30	-	V04	Cuma II	-	-	-	ALCA	UL	-	-	242	-	-
2007-S63	2454450.89	2007 Dec 16 0915:38	VS-30	-	V07	Angicos	-	-	-	CLBI	-	-	-	120	-	-
2008-S05	2454497.30	2008 Jan 31 1914:00	VS-30/Orion	-	V04	ARR HotPay-2	-	-	-	AND	-	-	-	381	-	-
2008-S08	2454503.98	2008 Feb 7 1130	VSB-30	-	V05	DLR TEXUS 44 (EML-2)	-	-	-	ESR	S	-	-	264	-	-
2008-S09	2454517.76	2008 Feb 21 0615	VSB-30	-	V06	DLR TEXUS 45	-	-	-	ESR	S	-	-	270?	-	-
2008-S22	2454601.67	2008 May 15 0400	VSB-30	-	V08	SSC MASER 11	-	-	-	ESR	S	-	-	252	-	-
2008-S69	2454805.94	2008 Dec 5 1035:10	VS-30/Orion	-	V05	ICI-2	-	-	-	SVAL	-	-	-	330	-	-
2009-S62	2455157.97	2009 Nov 22 1115	VSB-30	-	V09	DLR TEXUS 46	-	-	-	ESR	S	-	-	252	-	-
2009-S63	2455164.88	2009 Nov 29 0900	VSB-30	-	V10	DLR TEXUS 47	-	-	-	ESR	S	-	-	264	-	-
2010-S72	2455543.15	2010 Dec 12 1535	VSB-30	-	V07	Maracati 2/MICROG 1A	-	-	-	ALCA	UL	-	-	242	-	-
2011-S10	2455649.75	2011 Mar 29 0601:00	VSB-30	-	V15	DLR TEXUS 49	-	-	-	ESR	S	-	-	268	-	-
2011-S60	2455892.88	2011 Nov 27 0910	VSB-30	-	V14	DLR TEXUS 48	-	-	-	ESR	S	-	-	258	-	-
2011-S63	2455898.42	2011 Dec 2 2200	VS-30	-	V08	Brasil-Alemanha	-	-	-	CLBI	-	-	-	173?	-	-
2011-S64	2455898.81	2011 Dec 3 0721:31	VS-30/Orion	-	V08	ICI-3	-	-	-	SVAL	-	-	-	354	-	-
2012-S05	2455970.90	2012 Feb 13 0932	VSB-30	-	V16	SSC MASER 12	-	-	-	ESR	S	-	-	260	-	-
2012-A20	2456040.88	2012 Apr 23 0900	VS-30/Orion	-	V06	HiFire-5	-	-	-	AND	-	-	-	10?	-	-
2012-S54	2456183.50	2012 Sep 13	VS-30/Orion	-	V07	HiFire-3	-	-	-	AND	-	-	-	345	-	-
2012-S72	2456270.38	2012 Dec 8 2100	VS-30/Orion	-	V10	Iguaiba	-	-	-	ALCA	UL	-	-	428	-	-
2013-S22	2456394.68	2013 Apr 12 0425	VSB-30	-	V17	DLR TEXUS 50	-	-	-	ESR	S	-	-	261	-	-
2013-S68	2456471.49	2013 Jun 27 2352:30	VS-30	-	V09	WADIS 1	-	-	-	AND	-	-	-	115	-	-
2013-S49	2456488.75	2013 Jul 15 0553	VS-30	-	V10	DLR MAPHEUS 4	-	-	-	ESR	S	-	-	151	-	-
2013-A18	2456554.05	2013 Sep 18 1318	VS-30/Orion	-	V09	SCRAMSPACE 1	-	-	-	AND	-	-	-	5?	-	-
2014-S49	2456902.58	2014 Sep 2 0202	VS-30	-	V13	EPL-ME	-	-	-	ALCA	UL	-	-	130?	-	-
2015-S15	2457073.42	2015 Feb 19 2206	VS-30/Orion	-	V11	ICI-4	-	-	-	AND	-	-	-	365	-	-
2015-S16	2457075.83	2015 Feb 22 0752	VSB-30	-	V20	Cryofenix	-	-	-	ESR	S	-	-	265	-	-
2015-S17	2457086.57	2015 Mar 5 0144	VS-30	-	V11	WADIS 2	-	-	-	AND	-	-	-	115	-	-
2015-S39	2457112.14	2015 Mar 30 1526	VSB-30	-	V13	HiFire-7	-	-	-	AND	-	-	-	308	-	-
2015-S27	2457135.82	2015 Apr 23 0735	VSB-30	-	V18	DLR TEXUS 51	-	-	-	ESR	S	-	-	261	-	-
2015-S28	2457139.70	2015 Apr 27 0455	VSB-30	-	V21	DLR TEXUS 52	-	-	-	ESR	S	-	-	255	-	-
2015-S40	2457203.70	2015 Jun 30 0455	VSB-30	-	V24	DLR MAPHEUS 5	-	-	-	ESR	S	-	-	256	-	-
2015-S52	2457297.74	2015 Oct 2 0539	VS-31/Orion	-	V01	SSC O-STATES 1	-	-	-	ESR	MAN	-	-	246	-	-
2015-S56	2457315.09	2015 Oct 19 1409	VS-31/Orion	-	V02	SSC O-STATES 2	-	-	-	ESR	MAN	-	-	244	-	-
2015-S83	2457357.71	2015 Dec 1 0500	VSB-30	-	V22	SSC MASER 13	-	-	-	ESR	S	-	-	260	-	-
2016-S03	2457410.85	2016 Jan 23 0830	VSB-30	-	V23?	DLR TEXUS 53	-	-	-	ESR	S	-	-	253	-	-
2016-S06	2457421.38	2016 Feb 2 2109	VS-30	-	-	SSC SPIDER/LEEWAVES	-	-	-	ESR	S?	-	-	138	-	-
2016-S30	2457526.53	2016 May 18 0045?	VS-30/Orion	-	V12	HiFire-5B	-	-	-	WOO	-	-	-	278	-	-
2016-S79	2457730.05	2016 Dec 7 1310	VSB-30	-	V11	AEB MICROG2	Operacao Rio Verde	-	-	ALCA	UL	-	-	100?	-	-
2017-S02	2457776.60	2017 Jan 23 0230	VSB-30	-	V19?	DLR MAIUS-1	-	-	-	ESR	S	-	-	238?	-	-
2017-S30	2457886.89	2017 May 13 0920:00	VSB-30	-	-	DLR MAPHEUS 6	-	-	-	ESR	S	-	-	254	-	-
2017-S58	2457934.50	2017 Jun 30	VSB-30	-	V12?	HiFire-4	-	-	-	WOO	-	-	-	292?	-	-
2018-S26	2458166.79	2018 Feb 17 0700	VS-31/IM	-	-	DLR MAPHEUS 7	-	-	-	ESR	S	-	-	248	-	-
2018-S27	2458251.85	2018 May 13 0830	VSB-30	-	-	DLR TEXUS 54	-	-	-	ESR	S	-	-	261	-	-
2018-S37	2458269.67	2018 May 31 0400	VSB-30	-	-	DLR TEXUS 55	-	-	-	ESR	S	-	-	255	-	-
2018-S75	2458462.15	2018 Dec 9 1543	VS-30	-	V14	AEB PSR-01	Operacao Mutiti	-	-	ALCA	UL	-	-	120	-	-
2019-S33	2458647.60	2019 Jun 13 0221	VSB-30	-	-	DLR ATEK/MAPHEUS 8	-	-	-	ESR	S	-	-	240	-	-
2019-S32	2458658.79	2019 Jun 24 0652	VSB-30	-	-	SSC MASER 14	-	-	-	ESR	S	-	-	260	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-S70	2458802.90	2019 Nov 15 0935	VSB-30	-	-	DLR TEXUS 56	-	-	-	ESR	S	-	-	256	-	-
2021-S35	2459388.53	2021 Jun 23 0050	VS-31/Orion	-	-	DLR BOLT-1	-	-	-	ESR	S	-	-	280?	-	-
2021-S90	2459562.50	2021 Dec 14	VSB-30	-	V32	FAB 14-XS	-	-	-	ALCA	UL	-	-	160	200	-
2022-S55	2459756.60	2022 Jun 26 0219:00	S31/S30/IO	-	-	STORT	-	-	-	AND	-	-	-	100?	-	-
2022-S103	2459853.77	2022 Oct 1 0626	VSB-30	-	-	DLR TEXUS 57	-	-	-	ESR	S	-	-	260?	-	-
2022-S117	2459876.22	2022 Oct 23 1720	VSB-30	-	V29	PSM-MQ	Operacao Santa Branca	-	-	ALCA	UL	-	-	227	185	-
2022-S131	2459906.81	2022 Nov 23 0723	VSB-30	-	-	SSC MASER 15	Suborbital Express 3	S1X-3	-	ESR	S	-	-	260	-	-
2023-S21	2460058.72	2023 Apr 24 0520:00	VSB-30	-	-	DLR TEXUS 58	-	-	-	ESR	S	-	-	250	-	Norway
2023-S67	2460280.81	2023 Dec 2 0730	VSB-30	-	-	DLR MAIUS-2	-	-	-	ESR	S	-	-	230?	-	-
2024-S04	2460356.11	2024 Feb 15 1442:00	VSB-30	-	-	DLR TEXUS 59	-	-	-	ESR	S	-	-	264	-	-
2024-S10	2460393.91	2024 Mar 24 0945	VSB-30	-	-	DLR TEXUS 60	-	-	-	ESR	S	-	-	264?	-	-
2024-S77	2460640.71	2024 Nov 26 0500	VSB-30	-	-	SSC MASER 16	Suborbital Express 4	-	-	ESR	S	-	-	256	-	-
2024-S80	2460644.18	2024 Nov 29 1619	VS-30	-	V15	AEB Test	Operacao Potiguar	-	-	CLBI	-	-	-	130?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-A11	2442834.50	1976 Feb 26	Sonda 3	-	XV-01	0.000	IAE	SF	U	INPE/	Test	ESA-SP183-333	-	-
1976-S295	2443042.50	1976 Sep 21	Sonda 3	-	XV-02	0.000	IAE	SS	-	INPE/	Test	ESA-SP183-333	-	-
1977-S141	2443233.50	1977 Mar 31	Sonda 3	-	XV-03	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1977-S262	2443435.50	1977 Oct 19	Sonda 3	-	XV-04	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1978-S126	2443625.29	1978 Apr 26 1900	Sonda 3	-	XV-05	0.000	IAE	SS	-	INPE/	Ionos?	Wikileaks	ESA-SP183-333	-
1978-S216	2443778.50	1978 Sep 27	Sonda 3	M1	XV-06	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1979-S192	2444108.50	1979 Aug 23	Sonda 3	M2	XV-07	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1980-S159	2444478.50	1980 Aug 27	Sonda 3	M1	XV-08	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1980-S240	2444595.50	1980 Dec 22	Sonda 3	-	XV-09	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1981-S183	2444948.50	1981 Dec 10	Sonda 3	M1	XV-10	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP183-333	-	-
1982-S135	2445150.50	1982 Jun 30	Sonda 3	-	XV-11	0.000	IAE	SS	-	INPE/	Test	ESA-SP183-333	-	-
1982-S160	2445221.41	1982 Sep 8 2152	Sonda 3	-	XV-12	0.000	IAE	SS	-	AFCRL/INPE/Narcisi	Ionos	WDCRF	ESA-SP183-333	-
1982-S165	2445226.38	1982 Sep 13 2105	Sonda 3	-	XV-13	0.000	IAE	SS	-	AFCRL/INPE/Narcisi	Ionos	WDCRF	ESA-SP183-333	-
1982-S168	2445230.37	1982 Sep 17 2056	Sonda 3	-	XV-14	0.000	IAE	SS	-	MPE/INPE/	Ionos	Powell	ESA-SP183-333	-
1982-S169	2445231.36	1982 Sep 18 2045	Sonda 3	-	XV-15	0.000	IAE	SS	-	MPE/INPE/	Ionos	Powell	ESA-SP183-333	-
1983-S108	2445486.50	1983 Jun 1	Sonda 3	-	XV-16	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1983-S197	2445639.44	1983 Oct 31 2235	Sonda 3	-	XV-17	0.000	IAE	SF	S1	AFCRL/Weber	Ionos	WDCRF	AFCRL	-
1983-M02	2445652.93	1983 Nov 14 1020	Sonda 3	-	XV-18	0.000	IAE	SF	S1	AFCRL/Weber	Ionos	WDCRF	AFCRL	-
1984-S103	2445908.25	1984 Jul 26 1805	Sonda 3	-	XV-19	0.000	IAE	SS	-	INPE/Abdu	Ionos	ASR37,1091	ESA-SP370	-
1985-S141	2446411.48	1985 Dec 11 2330	Sonda 3	-	XV-20	0.000	IAE	SS	-	INPE/Takahashi	Aeron	ASR7,10,47	ESA-SP370	-
1986-S104	2446735.58	1986 Nov 1 0159	Sonda 3	-	XV-21	0.000	IAE	SS	-	INPE/Takahashi	Aeron	PlanSpacSci38,547	ESA-SP370	-
1990-S168	2448225.50	1990 Nov 30	Sonda 3	-	XV-22	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1991-S100	2448375.50	1991 Apr 29	Sonda 3	-	XV-23	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1992-S47	2448774.62	1992 Jun 1 0252	Sonda 3	-	XV-24	0.000	IAE	SS	-	INPE/	Aeron	JGR101,D2,4033	ESA-SP370	-
1993-S69	2449308.50	1993 Nov 17	Sonda 3	-	XV-25	0.000	IAE	SS	-	INPE/	Ionos?	ESA-SP370	-	-
1995-S88	2450070.55	1995 Dec 19 0117	Sonda 3	-	XV-26?	0.000	IAE	SS	-	INPE/Muralikrishna	Ionos	COSPAR2006	ASR37,903	-
1997-S34	2450567.20	1997 Apr 28 1642	VS-30	-	XV-01	0.000	INPE/DLR	SS	-	INPE/DLR/	Test	Moraba	NK9709-42	-
1997-S69	2450733.55	1997 Oct 12 0119	VS-30	-	XV-02 RONALD	0.000	INPE/DLR	SS	-	INPE/DLR/	Aeron	Moraba	EarthPlanSpace51,815	-
1998-S07	2450845.49	1998 Jan 31 2343	VS-30	-	XV-03 RONALD 2	0.000	INPE/DLR	SS	-	INPE/DLR/	Aeron	AND-WWW	Moraba	-
1999-S12	2451252.91	1999 Mar 15 0952	VS-30	-	XV-04	0.000	AEB	SS	-	INPE/	Micrograv	SN990412-3	-	-
2000-S04	2451581.19	2000 Feb 6 1637	VS-30	-	XV-05	0.000	AEB	SS	-	INPE/	Micrograv	www.iae.cta.br	-	-
2000-S47	2451778.34	2000 Aug 21 2014	VS-30/Orion	-	XV-01	0.000	AEB/DLR	SS	-	INPE/	Micrograv	www.iae.cta.br	-	-
2000-S65	2451888.01	2000 Dec 9 1220	Sonda 3	-	XV-30	0.000	AEB	SS	-	INPE/	Micrograv	www.iae.cta.br	-	-
2002-S32	2452406.70	2002 May 12 0447	Sonda 3	-	XV-31	0.000	AEB	SS	-	INPE/	Ionos	www.iae.cta.br	-	-
2002-S73	2452602.43	2002 Nov 23 2218	VS-30/Orion	-	XV-02	0.000	AEB	SS	-	INPE/	Ionos	www.iae.cta.br	-	-
2002-S75	2452610.02	2002 Dec 1 1233	VS-30	-	XV-06	0.000	AEB	SF	U	INPE/	Micrograv	www.iae.cta.br	ESA-SP530-145	-
2004-S61	2453302.20	2004 Oct 23 1651:00	VSB-30	-	XV-01	0.000	AEB	SS	-	INPE/	Test	IAC-4-IAF-J.5.05	www.aeb.gov.br	-
2005-S46	2453671.07	2005 Oct 27 1345:00	VS-30/Orion	-	V03	0.000	DLR	SS	-	DLR/Longo	Reentry Test	www.rocketrange.no	AWST051114-54	-
2005-S01	2453705.88	2005 Dec 1 0904	VSB-30	-	V02	0.000	SSC/DLR	SS	-	ESA/ULM/Wunderlich	Micrograv	www.ssc.se	-	-
2006-S20	2453866.84	2006 May 11 0812	VSB-30	-	V03	0.000	SSC/DLR	SS	-	ESA/Frohberg	Micrograv	www.ssc.se	Rigg	-
2007-S29	2454301.13	2007 Jul 19 1513	VSB-30	-	V04	0.000	AEB	SS	-	INPE/	Micrograv	www.aeb.gov.br	-	-
2007-S63	2454450.89	2007 Dec 16 0915:38	VS-30	-	V07	0.000	AEB	SS	-	INPE/	Tech/GPS	www.aeb.gov.br	-	-
2008-S05	2454497.30	2008 Jan 31 1914:00	VS-30/Orion	-	V04	0.000	ARR	SS	-	LEEDS/Plane	Aeron/Auroral	rocketrange.no	JASTP73,2228	-
2008-S08	2454503.98	2008 Feb 7 1130	VSB-30	-	V05	0.000	SSC/DLR	SS	-	DLR/Fecht	Micrograv	www.ssc.se	-	-
2008-S09	2454517.76	2008 Feb 21 0615	VSB-30	-	V06	0.000	SSC/DLR	SS	-	DLR/	Micrograv/Bio	www.ssc.se	-	-
2008-S22	2454601.67	2008 May 15 0400	VSB-30	-	V08	0.000	SSC	SS	-	ESA/?	Micrograv	www.ssc.se	-	-
2008-S69	2454805.94	2008 Dec 5 1035:10	VS-30/Orion	-	V05	0.000	ARR/FORSK	SS	-	OSLO/Moen	Auroral	www.rocketrange.no	-	-
2009-S62	2455157.97	2009 Nov 22 1115	VSB-30	-	V09	0.000	SSC/DLR	SS	-	DLR/ESA/JAXA/?	Micrograv	www.ssc.se	-	-
2009-S63	2455164.88	2009 Nov 29 0900	VSB-30	-	V10	0.000	SSC/DLR	SS	-	DLR/ESA/?	Micrograv	www.ssc.se	-	-
2010-S72	2455543.15	2010 Dec 12 1535	VSB-30	-	V07	0.000	AEB	SS	-	INPE/	Micrograv	aeb.gov.br	brazilianspace.blogs	-
2011-S10	2455649.75	2011 Mar 29 0601:00	VSB-30	-	V15	0.000	SSC/DLR	SS	-	DLR/ESA?	Micrograv	www.ssc.se	-	-
2011-S60	2455892.88	2011 Nov 27 0910	VSB-30	-	V14	0.000	SSC/DLR	SS	-	DLR/ESA?	Micrograv	www.ssc.se	-	-
2011-S63	2455898.42	2011 Dec 2 2200	VS-30	-	V08	0.000	AEB	SS	-	INPE/IAE/DLR/	Ionos/Test	brazilianspace.blog	-	-
2011-S64	2455898.81	2011 Dec 3 0721:31	VS-30/Orion	-	V08	0.000	ARR/FORSK	SS	-	OSLO/?	Auroral	www.rocketrange.no	-	-
2012-S05	2455970.90	2012 Feb 13 0932	VSB-30	-	V16	0.000	SSC	SS	-	SSC/	Micrograv	www.ssc.se	-	-
2012-A20	2456040.88	2012 Apr 23 0900	VS-30/Orion	-	V06	0.000	DLR	SF	U	AFRL/DSTO/NASA	Hypersonic	brazilianspace.blog	www.icas.org	-
2012-S54	2456183.50	2012 Sep 13	VS-30/Orion	-	V07	0.000	DLR	SS	-	AFRL/DSTO/NASA	Hypersonic	panoramaespacial	-	-
2012-S72	2456270.38	2012 Dec 8 2100	VS-30/Orion	-	V10	0.000	AEB	SS	-	INPE/	Ionos	brazilianspace.blog	-	-
2013-S22	2456394.68	2013 Apr 12 0425	VSB-30	-	V17	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.dlr.de	-	-
2013-S68	2456471.49	2013 Jun 27 2352:30	VS-30	-	V09	0.000	DLR	SS	-	IAP/IRSS/	Aeron	brazilianspace.blog	rocketrange.no	-
2013-S49	2456488.75	2013 Jul 15 0553	VS-30	-	V10	0.000	DLR	SS	-	DLR/	Micrograv	www.dlr.de	-	-
2013-A18	2456554.05	2013 Sep 18 1318	VS-30/Orion	-	V09	0.000	DLR	SF	U	UQU/	Hypersonic	www.rocketrange.no	-	-
2014-S49	2456902.58	2014 Sep 2 0202	VS-30	-	V13	0.000	AEB	SS	-	IAE/	Tech	cta.aeb.mil.br	brazilianspace.blog	-
2015-S15	2457073.42	2015 Feb 19 2206	VS-30/Orion	-	V11	0.000	ARR	SS	-	OSLO/Moen	Auroral	blog.sgo.fi	-	-
2015-S16	2457075.83	2015 Feb 22 0752	VSB-30	-	V20	0.000	SSC	SS	-	CNES/	Tech	www.sscspace.com	-	-
2015-S17	2457086.57	2015 Mar 5 0144	VS-30	-	V11	0.000	DLR	SS	-	IAP/IRSS/	Aeron	www.dlr.de	brazilianspace.blog	-
2015-S39	2457112.14	2015 Mar 30 1526	VSB-30	-	V13	0.000	DLR	SS	-	AFRL/DSTO/NASA/	Hypersonic	brazilianspace.blog	-	-
2015-S27	2457135.82	2015 Apr 23 0735	VSB-30	-	V18	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2015-S28	2457139.70	2015 Apr 27 0455	VSB-30	-	V21	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2015-S40	2457203.70	2015 Jun 30 0455	VSB-30	-	V24	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2015-S52	2457297.74	2015 Oct 2 0539	VS-31/Orion	-	V01	0.000	SSC	SS	-	SSC/	Aeron	www.sscspace.com	-	-
2015-S56	2457315.09	2015 Oct 19 1409	VS-31/Orion	-	V02	0.000	SSC	SS	-	SSC/	Aeron	www.sscspace.com	-	-
2015-S83	2457357.71	2015 Dec 1 0500	VSB-30	-	V22	0.000	SSC	SS	-	SSC/	Micrograv	www.ssc.se	-	-
2016-S03	2457410.85	2016 Jan 23 0830	VSB-30	-	V23?	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2016-S06	2457421.38	2016 Feb 2 2109	VS-30	-	-	0.000	SSC	SS	-	SSC/	Auroral	www.sscspace.com	-	-
2016-S30	2457526.53	2016 May 18 0045?	VS-30/Orion	-	V12	0.000	DLR/DSTO?	SS	-	AFRL/DSTO/UQU/	Hypersonic	UQ/priv.comm	-	-
2016-S79	2457730.05	2016 Dec 7 1310	VSB-30	-	V11	0.000	AEB	SS	-	AEB/	Micrograv	fab.mil.br	-	-
2017-S02	2457776.60	2017 Jan 23 0230	VSB-30	-	V19?	0.000	DLR	SS	-	ZARM/Guerlebeck	Physics	www.sscspace.com	-	-
2017-S30	2457886.89	2017 May 13 0920:00	VSB-30	-	-	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2017-S58	2457934.50	2017 Jun 30	VSB-30	-	V12?	0.000	DLR/DSTO?	SS	-	AFRL/DSTO/UQU/	Hypersonic	boeing.com	nasaspaceflight.com	-
2018-S26	2458166.79	2018 Feb 17 0700	VS-31/IM	-	-	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2018-S27	2458251.85	2018 May 13 0830	VSB-30	-	-	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2018-S37	2458269.67	2018 May 31 0400	VSB-30	-	-	0.000	SSC/DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	-
2018-S75	2458462.15	2018 Dec 9 1543	VS-30	-	V14	0.000	AEB	SS	-	IAE/	Ionos/Tech	brazilianspace.blog	-	-
2019-S33	2458647.60	2019 Jun 13 0221	VSB-30	-	-	0.000	DLR	SS	-	DLR/	Micrograv	www.sscspace.com	-	Or IM/VS-30?
2019-S32	2458658.79	2019 Jun 24 0652	VSB-30	-	-	0.000	SSC	SS	-	SSC/	Micrograv	www.ssc.se	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-S70	2458802.90	2019 Nov 15 0935	VSB-30	-	-	0.000	SSC/DLR	SS	-	ESA/DLR/	Micrograv	sscspace.com	-	-
2021-S35	2459388.53	2021 Jun 23 0050	VS-31/Orion	-	-	0.000	DLR	SS	-	DLR/	Hypersonic	Wire	-	-
2021-S90	2459562.50	2021 Dec 14	VSB-30	-	V32	0.000	FAB	SS	-	IAE/	Hypersonic	Wire	-	-
2022-S55	2459756.60	2022 Jun 26 0219:00	S31/S30/IO	-	-	0.000	DLR	SS	-	DLR/	Hypersonic	youtube.com	-	-
2022-S103	2459853.77	2022 Oct 1 0626	VSB-30	-	-	0.000	SSC/DLR	SS	-	ESA/DLR/	Micrograv	airbus.com	-	-
2022-S117	2459876.22	2022 Oct 23 1720	VSB-30	-	V29	0.000	FAB	SS	-	IAE/	Hypersonic	Wire	-	-
2022-S131	2459906.81	2022 Nov 23 0723	VSB-30	-	-	0.000	SSC	SS	-	SSC/	Micrograv	www.ssc.se	-	-
2023-S21	2460058.72	2023 Apr 24 0520:00	VSB-30	-	-	0.000	SSC/DLR	SS	-	ESA/DLR/	Micrograv	airbus.com	-	-
2023-S67	2460280.81	2023 Dec 2 0730	VSB-30	-	-	0.000	DLR	SS	-	ZARM/Guerlebeck	Physics	www.sscspace.com	-	-
2024-S04	2460356.11	2024 Feb 15 1442:00	VSB-30	-	-	0.000	DLR	SS	-	ZARM/ESA/	Microgravity	www.sscspace.com	-	-
2024-S10	2460393.91	2024 Mar 24 0945	VSB-30	-	-	0.000	DLR	SS	-	ZARM/ESA/	Microgravity	www.sscspace.com	-	-
2024-S77	2460640.71	2024 Nov 26 0500	VSB-30	-	-	0.000	SSC	SS	-	SSC/ESA/	Microgravity	www.sscspace.com	-	-
2024-S80	2460644.18	2024 Nov 29 1619	VS-30	-	V15	0.000	FAB	SS	-	FAB/	Tech	fab.mil.br	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-A06	2454004.34	2006 Sep 25 2014	SpaceLoft XL	-	SpaceLoft SL-1	-	-	-	-	SPAM	VLA LC1	-	-	12	-	-
2007-S19	2454219.12	2007 Apr 28 1456	SpaceLoft XL	-	SpaceLoft SL-2	Celestis Legacy	-	-	-	SPAM	VLA LC1	-	-	117	-	-
2009-A03	2454954.08	2009 May 2 1400	SpaceLoft XL	-	SpaceLoft SL-3	Education Launch	-	-	-	SPAM	VLA LC1	-	-	10?	-	-
2010-S32	2455321.03	2010 May 4 1241:02	SpaceLoft XL	-	SpaceLoft SL-4	-	-	-	-	SPAM	VLA LC1	-	-	113	-	-
2011-S18	2455702.06	2011 May 20 1321	SpaceLoft XL	-	SpaceLoft SL-5	-	-	-	-	SPAM	VLA LC1	-	-	118	-	-
2012-S16	2456023.10	2012 Apr 5 1418	SpaceLoft XL	-	SpaceLoft SL-6	-	-	-	-	SPAM	VLA LC1	-	-	117	-	-
2013-S41	2456465.08	2013 Jun 21 1357	SpaceLoft XL	-	SpaceLoft SL-7	NASA FOP-1	Celestis Centennial	-	-	SPAM	VLA LC1	-	-	119	-	-
2013-S98	2456609.17	2013 Nov 12 1612	SpaceLoft XL	-	SpaceLoft SL-8	NASA FOP-2	-	-	-	SPAM	VLA LC1	-	-	116	-	-
2014-S64	2456954.06	2014 Oct 23 1333	SpaceLoft XL	-	SpaceLoft SL-9	NASA FOP-3	Celestis Conestoga	-	-	SPAM	VLA LC1	-	-	124	-	-
2015-S72	2457333.13	2015 Nov 6 1501	SpaceLoft XL	-	SpaceLoft SL-10	NASA FOP-4/Maraia	Celestis Tribute	-	-	SPAM	VLA LC1	-	-	121	-	-
2018-S52	2458374.11	2018 Sep 12 1433	SpaceLoft XL	-	SpaceLoft SL-12	NASA FOP-6?/ADEPT	-	-	-	SPAM	VLA LC1	-	-	114	-	-
2018-S58	2458379.09	2018 Sep 17 1409	SpaceLoft XL	-	SpaceLoft SL-11	NASA FOP-5?	Celestis Starseeker	-	-	SPAM	VLA LC1	-	-	114	-	-
2019-S72	2458810.14	2019 Nov 22 1519	SpaceLoft XL	-	SpaceLoft SL-14	-	-	-	-	SPAM	VLA LC1	-	-	92	-	-
2021-S59	2459438.11	2021 Aug 11 1444	SpaceLoft XL	-	SpaceLoft SL-16	ReDX-1	-	-	-	SPAM	VLA LC1	-	-	100?	-	-
2023-A14	2460066.20	2023 May 1 1645	SpaceLoft XL	-	SpaceLoft SL-17	-	Celestis Aurora	-	-	SPAM	VLA LC1	-	-	0	-	-
2024-S62	2460585.05	2024 Oct 1 1309	SpaceLoft XL	-	SpaceLoft SL-15	NASA FOP	-	-	-	SPAM	VLA LC1	-	-	100?	-	-
2024-S67	2460622.50	2024 Nov 8	SpaceLoft XL	-	SpaceLoft SL-20	LANL Cyclone-1	-	-	-	SPAM	VLA LC1	-	-	100?	-	-
2025-A02	2460840.04	2025 Jun 13 1300	Spyder	-	Test 1	-	-	-	-	WS	LC36	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-A06	2454004.34	2006 Sep 25 2014	SpaceLoft XL	-	SpaceLoft SL-1	0.000	UPAE	SF	U	UPAE/	Test	Wire	-	-
2007-S19	2454219.12	2007 Apr 28 1456	SpaceLoft XL	-	SpaceLoft SL-2	0.000	UPAE	SS	-	SSICE/	Test/Burial	Wire	-	-
2009-A03	2454954.08	2009 May 2 1400	SpaceLoft XL	-	SpaceLoft SL-3	0.000	UPAE	SF	U	NMSU/Hynes	Test	Wire	-	-
2010-S32	2455321.03	2010 May 4 1241:02	SpaceLoft XL	-	SpaceLoft SL-4	0.000	UPAE	SS	-	UPAE/SSICE/	Edu/Burial	Wire	-	-
2011-S18	2455702.06	2011 May 20 1321	SpaceLoft XL	-	SpaceLoft SL-5	0.000	UPAE	SS	-	UPAE/SSICE/	Edu/Burial	Wire	-	-
2012-S16	2456023.10	2012 Apr 5 1418	SpaceLoft XL	-	SpaceLoft SL-6	0.000	UPAE	SS	-	UPAE/AFORS/	Tech	Wire	-	-
2013-S41	2456465.08	2013 Jun 21 1357	SpaceLoft XL	-	SpaceLoft SL-7	0.000	UPAE	SS	-	UPAE/DFRC/	Tech	Wire	-	-
2013-S98	2456609.17	2013 Nov 12 1612	SpaceLoft XL	-	SpaceLoft SL-8	0.000	UPAE	SS	-	UPAE/DFRC/	Tech	abqjournal.com	-	-
2014-S64	2456954.06	2014 Oct 23 1333	SpaceLoft XL	-	SpaceLoft SL-9	0.000	UPAE	SS	-	UPAE/DFRC/	Tech	coloradospacenews	-	-
2015-S72	2457333.13	2015 Nov 6 1501	SpaceLoft XL	-	SpaceLoft SL-10	0.000	UPAE	SS	-	UPAE/DFRC/	Tech	Wire	-	-
2018-S52	2458374.11	2018 Sep 12 1433	SpaceLoft XL	-	SpaceLoft SL-12	0.000	UPAE	SS	-	UPAE/DFRC/ARC/	Tech	Wire	-	-
2018-S58	2458379.09	2018 Sep 17 1409	SpaceLoft XL	-	SpaceLoft SL-11	0.000	UPAE	SS	-	UPAE/DFRC/SSICE/	Tech/Burial	Wire	-	-
2019-S72	2458810.14	2019 Nov 22 1519	SpaceLoft XL	-	SpaceLoft SL-14	0.000	UPAE	SS	-	UPAE/DFRC/ARC/	Tech	Wire	-	-
2021-S59	2459438.11	2021 Aug 11 1444	SpaceLoft XL	-	SpaceLoft SL-16	0.000	UPAE	SS	-	UPAE/LANL/	Tech	Wire	-	-
2023-A14	2460066.20	2023 May 1 1645	SpaceLoft XL	-	SpaceLoft SL-17	0.000	UPAE	SF	U	UPAE/	Tech/Burial	Wire	-	-
2024-S62	2460585.05	2024 Oct 1 1309	SpaceLoft XL	-	SpaceLoft SL-15	0.000	UPAE	SS	-	UPAE/	Tech	Wire	-	-
2024-S67	2460622.50	2024 Nov 8	SpaceLoft XL	-	SpaceLoft SL-20	0.000	UPAE	SS	-	UPAE/LANL/	Tech	Wire	-	-
2025-A02	2460840.04	2025 Jun 13 1300	Spyder	-	Test 1	0.000	UPAE	SS	-	UPAE/LANL/	Tech	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S06	2436933.50	1960	Sparoair I	-	-	-	-	-	F-3B	PM	RW03/21?	WTR	LP3	100?	-	-
1961-S10	2437498.50	1961 Jul 18	Sparoair II	-	-	-	-	-	F-4D-856	PM	RW03/21?	WTR	LP3	103	-	-
1961-S448	2437299.50	1961	Sparoair II	-	-	Flight 8	-	-	F-3B	PM	RW03/21?	WTR	LP3	100?	-	-
1961-S549	2437299.50	1961?	Sparoair II	-	-	-	-	-	F-4D-747	PM	RW03/21?	WTR	LP3	100?	-	-
1963-S375	2438243.83	1963 Aug 2 0800?	Sparoair I	-	-	NITE OWL 1	-	-	F-3B	PM	RW03/21?	WTR	LP3	107	-	-
1963-S628	2438302.50	1963 Oct	Sparrow Arcas	-	-	Denpro 01	-	-	-	WS	-	-	-	100?	-	-
1963-S629	2438302.50	1963 Oct	Sparrow Arcas	-	-	Denpro 02	-	-	-	WS	-	-	-	100?	-	-
1963-S635	2438210.50	1963 Q3?	Sparoair I	-	-	NITE OWL 2	-	-	F-3B-484	PM	RW03/21?	WTR	LP3	103	-	-
1963-S679	2438029.50	1963	Sparoair II	?	-	REDGLARE	Comms Test	-	F-3B	PM	RW03/21?	WTR	LP3	103	-	-
1964-S805	2438412.50	1964 Jan 18	Sparoair I	-	-	NITE OWL 3	-	-	F-3B	PM	RW03/21?	WTR	LP3	91	-	-
1964-S778	2438417.50	1964 Jan 23	Sparrow Arcas	-	-	Denpro 03	-	-	-	SNI	PC1	-	-	150?	-	-
1964-S779	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	Denpro 04	-	-	-	SNI	PC1	-	-	150?	-	-
1964-S780	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	Denpro 05	-	-	-	SNI	PC1	-	-	150?	-	-
1964-S781	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	Denpro 06	-	-	-	SNI	PC1	-	-	150?	-	-
1964-S782	2438516.50	1964 May 1	Sparrow Arcas	-	OP 411176	Denpro 07	-	-	-	SNI	PC1	-	-	100?	-	-
1964-S783	2438523.50	1964 May 8	Sparrow Arcas	-	OP 411391	Denpro 08	-	-	-	SNI	PC1	-	-	100?	-	-
1964-S784	2438745.50	1964 Dec 16	Sparrow Arcas	-	-	Denpro 09 Sphere	-	-	-	SNI	-	-	-	100?	-	-
1964-S785	2438745.50	1964 Dec 16	Sparrow Arcas	-	-	Denpro 10 Sphere	-	-	-	SNI	-	-	-	100?	-	-
1964-S802	2438746.50	1964 Dec 17	Sparrow Arcas	-	-	Denpro	-	-	-	SNI	-	-	-	100?	-	-
1964-S683	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417104	Denpro II	-	-	-	SNI	-	-	-	100?	-	-
1964-S786	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417158A	Denpro	-	-	-	SNI	-	-	-	100?	-	-
1964-S687	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417158B	Denpro III	-	-	-	SNI	-	-	-	100?	-	-
1965-M82	2439053.50	1965 Oct 20	Cleansweep IIIB	-	-	Shrike motor	-	-	B-57B-502	JI?	RW05/23	JI	LP1	52?	-	-
1965-M83	2439114.50	1965 Dec 20?	Cleansweep IIIB	-	-	-	-	-	B-57B-502	JI	RW05/23	JI	LP1	50?	-	-
1965-A96	2438949.50	1965 Jul 8	Sparoair III	-	-	-	-	-	F-4B-451	PM	RW03/21?	WTR	LP3	27	-	-
1965-S592	2439067.48	1965 Nov 2 2335:00	Sparrow Arcas	-	S-1	IQSY release	-	-	-	EGL	-	-	-	134	-	-
1965-S612	2439075.68	1965 Nov 11 0415:00	Sparrow Arcas	-	S-2	-	-	-	-	EGL	-	-	-	137	-	-
1965-S623	2439082.60	1965 Nov 18 0220:00	Sparrow Arcas	-	NA-FLORA /S-4	-	-	-	-	EGL	-	-	-	130?	-	-
1965-S627	2439082.83	1965 Nov 18 0801:00	Sparrow Arcas	-	NA-HANNAH /S-6	-	-	-	-	EGL	-	-	-	137	-	-
1965-S626	2439082.72	1965 Nov 18 0520:00	Sparrow Arcas	-	S-3	-	-	-	-	EGL	-	-	-	130?	-	-
1966-M02	2439125.50	1966	Cleansweep IIIB	-	-	-	-	-	B-57B-502	PM?	RW03/21?	WTR	LP3	52?	-	-
1966-Y12	2439260.90	1966 May 15 0940	Sparrow Arcas	-	AE001	ESRO A23/P	-	-	-	KARY	-	-	-	110	-	-
1966-Y15	2439265.86	1966 May 20 0835	Sparrow Arcas	-	AE002	ESRO A23/1	-	-	-	KARY	-	-	-	10?	-	-
1966-Y17	2439265.88	1966 May 20 0900	Sparrow Arcas	-	A003	ESRO A23/2	-	-	-	KARY	-	-	-	99	-	-
1966-Y19	2439265.90	1966 May 20 0940	Sparrow Arcas	-	A004	ESRO A23/3	-	-	-	KARY	-	-	-	102	-	-
1966-A68	2439265.92	1966 May 20 1010	Sparrow Arcas	-	A005	ESRO A23/4	-	-	-	KARY	-	-	-	7	-	-
1966-Y21	2439265.94	1966 May 20 1040	Sparrow Arcas	-	A006	ESRO A23/5	-	-	-	KARY	-	-	-	103	-	-
1966-A71	2439271.50	1966 May 26	Sparoair III	-	-	-	-	-	F-4B-451	PM	RW03/21?	WTR	LP3	30	-	-
1966-S771	2439409.50	1966 Oct 11	Sparrow Arcas	-	-	Density sphere	-	-	-	EGL	-	-	-	90?	-	-
1966-S772	2439409.50	1966 Oct 11	Sparrow Arcas	-	-	Density sphere	-	-	-	EGL	-	-	-	90?	-	-
1967-M146	2439626.50	1967 May 16	Cleansweep IIIB	-	-	JTF-8 exercise	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M147	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M148	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M149	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M150	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M151	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M152	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1967-M153	2439626.50	1967 May 16	Cleansweep IIIB	-	-	-	-	-	B-57C	PM	RW03/21?	WTR	LP3	50?	-	-
1968-S659	2439894.33	1968 Feb 7 1958:03	Sparrow Arcas	-	Sparc 813303	UM Sparc Pitot	-	-	-	PM	RW03/21?	WTR	LP3	129	-	-
1968-S660	2439895.32	1968 Feb 8 1934:17	Sparrow Arcas	-	Sparc 813344	UM Sparc Pitot	-	-	-	PM	-	-	-	131	-	-
1969-S640	2440555.62	1969 Nov 30 0258:11	Sparrow Arcas	-	-	Arcas VII	-	-	-	AND	-	-	-	100	-	-
1970-S465	2440803.00	1970 Aug 04 1205:23	Sparrow Arcas	-	-	Arcas VIII	-	-	-	AND	-	-	-	85	-	-
1971-S629	2441161.01	1971 Jul 28 1215:00	Sparrow Arcas	-	-	AFCRL Arcas 71-3	-	-	-	WS	-	-	-	130	-	-
1971-S630	2441161.03	1971 Jul 28 1249:59	Sparrow Arcas	-	-	AFCRL Arcas 71-4	-	-	-	WS	-	-	-	137	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S06	2436933.50	1960	Sparoair I	-	-	0.000	NMC	SF	U	NMC/	Test	SRctCon67-271	-	-
1961-S10	2437498.50	1961 Jul 18	Sparoair II	-	-	0.000	NMC	SU	-	NMC/	Test	SRctCon67-271	-	-
1961-S448	2437299.50	1961	Sparoair II	-	-	0.000	NMC	SU	-	NMC/	Test	JScR6,460	-	-
1961-S549	2437299.50	1961?	Sparoair II	-	-	0.000	NMC	SU	-	NMC/	Test	JCM	-	-
1963-S375	2438243.83	1963 Aug 2 0800?	Sparoair I	-	-	0.000	NMC	SS	-	NMC/	UV Astron	Mugu-PR	SP-4004	-
1963-S628	2438302.50	1963 Oct	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Test	Morrow	-	-
1963-S629	2438302.50	1963 Oct	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Test	Morrow	-	-
1963-S635	2438210.50	1963 Q3?	Sparoair I	-	-	0.000	NMC	SS	-	NMC/	UV Astron	NavalAvNewsOct63	PMRHist64	-
1963-S679	2438029.50	1963	Sparoair II	?	-	0.000	NMC	SS	-	NMC/	Comms	DaysOfChallenge	-	-
1964-S805	2438412.50	1964 Jan 18	Sparoair I	-	-	0.000	NMC	SS	-	NMC/	UV Astron	PMRHist64	-	-
1964-S778	2438417.50	1964 Jan 23	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S779	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S780	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S781	2438417.50	1964 Jan 23?	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S782	2438516.50	1964 May 1	Sparrow Arcas	-	OP 411176	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S783	2438523.50	1964 May 8	Sparrow Arcas	-	OP 411391	0.000	NMC	SS	-	NMC/	Meteo	PMRHist64	-	-
1964-S784	2438745.50	1964 Dec 16	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	PMRHist64	-	-
1964-S785	2438745.50	1964 Dec 16	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	Morrow	-	-
1964-S802	2438746.50	1964 Dec 17	Sparrow Arcas	-	-	0.000	NMC	SS	-	NMC/	Meteo	PMRHist64	-	-
1964-S683	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417104	0.000	NMC	SS	-	NMC/	Meteo	PMR-TM-65-2	MR650104-11	-
1964-S786	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417158A	0.000	NMC	SS	-	NMC/	Meteo	PMR-TM-65-2	-	-
1964-S687	2438746.50	1964 Dec 17	Sparrow Arcas	-	OP 417158B	0.000	NMC	SS	-	NMC/	Meteo	MR650104-11	PMR-TM-65-2	-
1965-M82	2439053.50	1965 Oct 20	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMRHist65	-	-
1965-M83	2439114.50	1965 Dec 20?	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMRHist65	-	-
1965-A96	2438949.50	1965 Jul 8	Sparoair III	-	-	0.000	NMC	SF	U	NMC/	Test	SRctCon67-271	-	-
1965-S592	2439067.48	1965 Nov 2 2335:00	Sparrow Arcas	-	S-1	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1965-S612	2439075.68	1965 Nov 11 0415:00	Sparrow Arcas	-	S-2	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1965-S623	2439082.60	1965 Nov 18 0220:00	Sparrow Arcas	-	NA-FLORA /S-4	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1965-S627	2439082.83	1965 Nov 18 0801:00	Sparrow Arcas	-	NA-HANNAH /S-6	0.000	AFCRL	SS	-	AFCRL/Rosenberg	Aeron/Ionos	WDCRF	-	-
1965-S626	2439082.72	1965 Nov 18 0520:00	Sparrow Arcas	-	S-3	0.000	AFCRL	SU	-	AFCRL/Rosenberg	Aeron	WDCRF	-	-
1966-M02	2439125.50	1966	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	AWST660613-100	-	-
1966-Y12	2439260.90	1966 May 15 0940	Sparrow Arcas	-	AE001	0.000	ESRO	SS	-	UCL/RSRS/KOBN/Boyd,Pet.	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-Y15	2439265.86	1966 May 20 0835	Sparrow Arcas	-	AE002	0.000	ESRO	SF	U	UCL/RSRS/Boyd,Peters	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-Y17	2439265.88	1966 May 20 0900	Sparrow Arcas	-	A003	0.000	ESRO	SS	-	UCL/RSRS/Boyd,Ratcliffe	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-Y19	2439265.90	1966 May 20 0940	Sparrow Arcas	-	A004	0.000	ESRO	SS	-	UCL/RSRS/Boyd	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-A68	2439265.92	1966 May 20 1010	Sparrow Arcas	-	A005	0.000	ESRO	SF	U	UCL/RSRS/Boyd	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-Y21	2439265.94	1966 May 20 1040	Sparrow Arcas	-	A006	0.000	ESRO	SS	-	UCL/RSRS/Boyd	Iono-solar Eclipse	ESRO-SP77	WDCRF	-
1966-A71	2439271.50	1966 May 26	Sparoair III	-	-	0.000	NMC	SF	U	NMC/	Test	SRctCon67-271	-	-
1966-S771	2439409.50	1966 Oct 11	Sparrow Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Faucher	Test/Aeron	OARReview5	-	-
1966-S772	2439409.50	1966 Oct 11	Sparrow Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/Faucher	Test/Aeron	OARReview5	-	-
1967-M146	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M147	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M148	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M149	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M150	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M151	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M152	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1967-M153	2439626.50	1967 May 16	Cleansweep IIIB	-	-	0.000	USAF/LRL	SS	-	LRL/?	Atmos	PMHist67	-	-
1968-S659	2439894.33	1968 Feb 7 1958:03	Sparrow Arcas	-	Sparc 813303	0.000	USAF?	SS	-	UMI/Horvath	Aeron	AFCRL-69-0241	-	-
1968-S660	2439895.32	1968 Feb 8 1934:17	Sparrow Arcas	-	Sparc 813344	0.000	USAF?	SS	-	UMI/Horvath	Aeron	AFCRL-69-0241	-	-
1969-S640	2440555.62	1969 Nov 30 0258:11	Sparrow Arcas	-	-	0.000	NTNF	SS	-	NDRE/Johannessen	Aeron/Ionos/Plasma	AND	WDCRF	-
1970-S465	2440803.00	1970 Aug 04 1205:23	Sparrow Arcas	-	-	0.000	NTNF	SS	-	NDRE/Johannessen	Ionos	AND	WDCRF	-
1971-S629	2441161.01	1971 Jul 28 1215:00	Sparrow Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/USU/Baker	Aeron	AFCRL72-0472	AFCRL2	-
1971-S630	2441161.03	1971 Jul 28 1249:59	Sparrow Arcas	-	-	0.000	AFCRL	SS	-	AFCRL/USU/Baker	Aeron	AFCRL72-0472	AFCRL2	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A145	2436807.23	1959 Aug 26 1735	Nike Zeus A	-	ZW-1/101	1	-	-	-	WS	LC38	-	-	0?	-	-
1959-M36	2436856.19	1959 Oct 14 1630	Nike Zeus A	-	ZW-2/102	2	-	-	-	WS	LC38	-	-	40?	-	-
1959-A207	2436918.50	1959 Dec 16	Nike Zeus A	-	ZW-3/104	3	-	-	-	WS	LC38	-	-	10?	-	-
1960-M01	2436968.38	1960 Feb 3 2102	Nike Zeus A	-	ZW-4/105	4	-	-	-	WS	LC38	-	-	40?	-	FIX
1960-M03	2437002.50	1960 Mar 9	Nike Zeus A	-	ZW-5/106	5	-	-	-	WS	LC38	-	-	40?	-	FIX
1960-S85	2437053.12	1960 Apr 28 1450	Nike Zeus A	?	ZW-6/107	6 First Silo	-	-	-	WS	LC38	-	-	40?	-	-
1960-M13	2437079.50	1960 May 25	Nike Zeus A	-	ZW-7	7	-	-	-	WS	LC38	-	-	40?	-	-
1960-S116	2437107.50	1960 Jun 22	Nike Zeus A	?	ZW-8	8	-	-	-	WS	LC38	-	-	0	-	-
1960-S229	2437156.50	1960 Aug 10	Nike Zeus	-	ZW-9/20009	9 First Tac	-	-	-	WS	LC38	-	-	40?	-	-
1960-S304	2437181.50	1960 Sep 4	Nike Zeus	-	ZW-10	-	-	-	-	WS	LC38	-	-	40?	-	-
1960-S386	2437238.50	1960 Nov?	Nike Zeus	-	ZW-11	-	-	-	-	WS	LC38	-	-	40?	-	-
1960-S392	2437269.50	1960 Dec 1	Nike Zeus	-	ZW-12/20013	Guidance test	-	-	-	WS	LC38 Pit 207	-	-	40?	-	-
1961-S11	2437315.50	1961 Jan 16	Nike Zeus	-	ZW-13	-	-	-	-	WS	LC38	-	-	5?	-	-
1961-A255	2437330.50	1961 Jan 31	Nike Zeus	-	ZW-14/20016	-	-	-	-	WS	LC38	-	-	5?	-	-
1961-A256	2437415.50	1961 Apr 26	Nike Zeus	-	ZW-15	Zeus A?	-	-	-	WS	LC38	-	-	5?	-	-
1961-S194	2437445.52	1961 May 26 0030	Nike Zeus	-	ZW-16/20021	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A257	2437449.50	1961 May 30	Nike Zeus	-	ZW-17?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S98	2437474.49	1961 Jun 23 2340	Nike Zeus	-	ZW-18?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S195	2437480.50	1961 Q3	Nike Zeus	-	ZW-19?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A258	2437480.50	1961 Q3?	Nike Zeus	-	ZW-20?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S197	2437506.50	1961 Jul 26	Nike Zeus	-	ZW-21?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S196	2437537.36	1961 Aug 25 2034	Nike Zeus	-	ZW-22 20019	ZW-22/DM-15B	-	-	-	WS	LC38	-	-	10?	-	-
1961-S198	2437542.50	1961 Aug 31	Nike Zeus	-	ZW-23?	New mainstage test	-	-	-	WS	LC38	-	-	40?	-	-
1961-A259	2437548.50	1961 Sep 6	Nike Zeus	-	ZW-24?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A197	2437552.33	1961 Sep 9 2002	Nike Zeus	-	ZM-1 20025	ZM-1	-	-	-	PM	-	-	-	1?	-	-
1961-A200	2437557.50	1961 Sep 15	Nike Zeus	-	ZW-25?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A260	2437563.50	1961 Sep 21	Nike Zeus	-	ZW-26? 20026	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A217	2437580.25	1961 Oct 7 1803	Nike Zeus	-	ZM-2	ZM-2	-	-	-	PM	-	-	-	3	-	-
1961-A261	2437610.50	1961 Nov 7?	Nike Zeus	-	ZW-27?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S375	2437618.50	1961 Nov 15	Nike Zeus	-	ZW-28 20030	Intercept Highball	-	-	-	WS	LC38	-	-	20?	-	-
1961-S376	2437618.50	1961 Nov 15	Nike Zeus	-	ZW-29?	-	-	-	-	WS	LC38	-	-	50?	-	-
1961-S380	2437620.36	1961 Nov 16 2037	Nike Zeus	-	ZM-3	PM-3 Dummy St 3	-	-	-	PM	-	-	-	50?	-	-
1961-S385	2437625.29	1961 Nov 21 1900	Nike Zeus	-	ZM-4	PM-4 Dummy St 3	-	-	-	PM	-	-	-	50?	-	-
1961-S398	2437633.50	1961 Nov 30	Nike Zeus	3	ZW-30?	First suc 3-stage	-	-	-	WS	LC38	-	-	50?	-	-
1961-A262	2437637.50	1961 Dec 4?	Nike Zeus	-	ZW-31?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A263	2437641.50	1961 Dec 8?	Nike Zeus	-	ZW-32?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-A264	2437572.50	1961 Q4?	Nike Zeus	-	ZW-33?	-	-	-	-	WS	LC38	-	-	40?	-	-
1961-S550	2437643.29	1961 Dec 9 1900	Nike Zeus	3	ZM-5	Low altitude test	-	-	-	PM	-	-	-	40?	-	-
1961-S424	2437648.33	1961 Dec 14 2000?	Nike Zeus	3	ZK-1 20047	KMR-1	-	-	-	KMR	-	-	-	10?	-	-
1961-S423	2437648.35	1961 Dec 14 2026	Nike Zeus	-	ZM-6 20043	PM-6	-	-	-	PM	-	-	-	80?	-	-
1961-A248	2437648.38	1961 Dec 14 2100?	Nike Zeus	-	ZW-34 20041	Hercules intercept	-	-	-	WS	LC38	-	-	23	-	-
1962-S07	2437682.50	1962 Jan 18	Nike Zeus	-	ZW-35	-	-	-	-	WS	-	-	-	50?	-	-
1962-S26	2437690.42	1962 Jan 25 2202	Nike Zeus	-	ZM-7	PM-7 Sim target	-	-	-	PM	-	-	-	80?	-	-
1962-S32	2437696.50	1962 Feb 1	Nike Zeus	3	ZW-36?	3 stage control test	-	-	-	WS	LC38	-	-	50?	-	-
1962-S34	2437702.50	1962 Feb 7	Nike Zeus	-	ZW-37?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-A20	2437708.74	1962 Feb 13 0552	Nike Zeus	-	ZM-8	PM-8 Dummy St 3?	-	-	-	PM	-	-	-	10?	-	-
1962-A250	2437718.50	1962 Feb 23	Nike Zeus	3	ZW-38?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S59	2437728.50	1962 Mar 5	Nike Zeus	3	ZK-2	KMR-2 Sim target	-	-	-	KMR	-	-	-	80?	-	-
1962-A32	2437732.51	1962 Mar 9 0016	Nike Zeus	3	ZM-9	PM-9	-	-	-	PM	-	-	-	10?	-	-
1962-S65	2437736.50	1962 Mar 13	Nike Zeus	3	ZW-39?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-S66	2437736.50	1962 Mar 13	Nike Zeus	3	ZW-40?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-A38	2437751.50	1962 Mar 28	Nike Zeus	3	ZW-41?	Hercules intercept	-	-	-	WS	LC38	-	-	40?	-	-
1962-A245	2437664.50	1962 Q1?	Nike Zeus	3	ZK-3	-	-	-	-	KMR	-	-	-	80?	-	-
1962-A246	2437754.50	1962 Q2?	Nike Zeus	3	ZK-4	-	-	-	-	KMR	-	-	-	80?	-	-
1962-A247	2437754.50	1962 Q2?	Nike Zeus	3	ZK-5	-	-	-	-	KMR	-	-	-	80?	-	-
1962-S88	2437759.50	1962 Apr 5	Nike Zeus	3	ZW-42?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-S95	2437767.34	1962 Apr 12 2009	Nike Zeus	3	ZM-10?	ZM-10? 3-stage test	-	-	-	PM	-	-	-	80?	-	-
1962-A55	2437773.50	1962 Apr 19	Nike Zeus	-	ZM-11?	ZM-11? Sim target	-	-	-	PM	-	-	-	10?	-	-
1962-S112	2437781.50	1962 Apr 27	Nike Zeus	3	ZW-43?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S116	2437784.50	1962 Apr 30	Nike Zeus	3	ZW-44?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-M07	2437794.42	1962 May 9 2208	Nike Zeus	3	ZM-12	ZM-12	-	-	-	PM	-	-	-	50?	-	-
1962-A248	2437796.50	1962 May 12	Nike Zeus	3	ZW-45?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S143	2437811.25	1962 May 26 1804	Nike Zeus	3	ZM-13	ZM-13 Altitude test	-	-	-	PM	-	-	-	100?	-	-
1962-A100	2437841.98	1962 Jun 26 1130?	Nike Zeus	3	ZK-6	K-1 Atlas Intercept	-	-	-	KMR	-	-	-	10?	-	-
1962-M55	2437843.50	1962 Jun 28	Nike Zeus	3	ZW-46?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S243	2437861.50	1962 Jul 16	Nike Zeus	3	ZW-47?	Requal test	-	-	-	WS	LC38	-	-	50?	-	-
1962-S248	2437864.98	1962 Jul 19 1135?	Nike Zeus	3	ZK-7 20071	K-2 Atlas Intercept	-	-	-	KMR	-	-	-	70?	-	-
1962-A249	2437876.50	1962 Jul 31	Nike Zeus	3	ZW-48	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S310	2437901.59	1962 Aug 25 0207	Nike Zeus	3	ZM-14	ZM-14	-	-	-	PM	-	-	-	50?	-	-
1962-S314	2437905.70	1962 Aug 29 0450	Nike Zeus	3	ZW-47? /?/	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S346	2437934.50	1962 Sep 27	Nike Zeus	3	ZW-49?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-M28	2437962.29	1962 Oct 24 1900	Nike Zeus	3	ZM-15 (F44)	ZM-15	-	-	-	PM	-	-	-	50?	-	-
1962-S473	2437976.50	1962 Nov 8	Nike Zeus	3	ZW-50?	-	-	-	-	WS	LC38	-	-	50?	-	-
1962-S472	2437977.63	1962 Nov 9 0312	Nike Zeus	3	ZM-16	ZM-16 sim target	-	-	-	PM	-	-	-	80?	-	-
1962-S497	2437997.48	1962 Nov 28 2325	Nike Zeus	3	ZM-17	ZM-17 St3 guidance	-	-	-	PM	-	-	-	80?	-	-
1962-S501	2437997.50	1962 Nov 29	Nike Zeus	3	ZW-51?	Sim target	-	-	-	WS	LC38	-	-	50?	-	-
1962-S637	2438007.39	1962 Dec 8 2120	Nike Zeus	3	ZM-18	ZM-18	-	-	-	PM	-	-	-	50?	-	-
1962-S557	2438011.01	1962 Dec 12 1210?	Nike Zeus	3	ZK-8? 20066	K-6 Atlas Intercept	-	-	-	KMR	-	-	-	70?	-	-
1962-A241	2438011.01	1962 Dec 12 1210?	Nike Zeus	3	ZK-9? 20077	K-6 Salvo	-	-	-	KMR	-	-	-	10?	-	-
1962-S507	2438015.50	1962 Dec 17	Nike Zeus DM-15S	-	ZW-52? MUDFLAP 1	DM-15S Test 1	-	-	-	WS	LC38	-	-	180	-	-
1962-S574	2438018.41	1962 Dec 19 2151	Nike Zeus	3	ZM-19	ZM-19/Eniwetok	-	-	-	PM	-	-	-	80?	-	-
1962-S578	2438020.92	1962 Dec 22 1000?	Nike Zeus	3	ZK-10? 20068	K-7 Atlas Intercept	-	-	-	KMR	-	-	-	70?	-	-
1962-A242	2438020.92	1962 Dec 22 1000?	Nike Zeus	3	ZK-11? 20100	K-7 Salvo	-	-	-	KMR	-	-	-	10?	-	-
1963-S630	2438066.50	1963 Feb 6	Nike Zeus	3	ZW-53?	Rail launch test	-	-	-	WS	-	-	-	50?	-	-
1963-S47	2438074.02	1963 Feb 13 1230?	Nike Zeus	3	ZK-12?	K-8 Atlas Intercept	-	-	-	KMR	-	-	-	70?	-	-
1963-S52	2438076.52	1963 Feb 16 0030	Nike Zeus DM-15S	-	ZW-54? MUDFLAP 2	DM-15S Test 2	-	-	-	WS	LC38	-	-	240	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S58	2438080.50	1963 Feb 20	Nike Zeus	3	ZW-55?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S73	2438088.90	1963 Feb 28 0930?	Nike Zeus	3	ZK-13?	K-10 Atlas Intercept	-	-	-	KMR	-	-	-	70?	-	-
1963-S29	2438109.50	1963 Mar 21	Nike Zeus DM-15S	-	ZK-14?/MUDFLAP 3	DM-15S Test 3	-	-	-	KMR	-	-	-	207?	-	-
1963-S125	2438118.50	1963 Mar 30	Nike Zeus	3	ZK-15? 20114	K-17 Titan Intercept	-	-	-	KMR	-	-	-	80	-	-
1963-S149	2438132.50	1963 Apr 13	Nike Zeus	3	ZK-16?	K-21 Titan Intercept	-	-	-	KMR	-	-	-	70?	-	-
1963-S162	2438137.50	1963 Apr 18	Nike Zeus	3	ZW-56?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-M60	2438138.50	1963 Apr 19	Nike Zeus DM-15S	-	ZK-17?	DM-15S Sim Target	-	-	-	KMR	-	-	-	70?	-	-
1963-S172	2438143.50	1963 Apr 24	Nike Zeus	3	ZW-57?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-A72	2438159.50	1963 May 10	Nike Zeus	3	ZW-58?	-	-	-	-	WS	LC38	-	-	20?	-	-
1963-M61	2438119.50	1963 Q2?	Nike Zeus	3	ZK-18?	-	-	-	-	KMR	-	-	-	70?	-	-
1963-M62	2438119.50	1963 Q2?	Nike Zeus	3	ZK-19?	-	-	-	-	KMR	-	-	-	70?	-	-
1963-A198	2438119.50	1963 Q2?	Nike Zeus	3	ZW-59?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-A199	2438119.50	1963 Q2?	Nike Zeus	3	ZW-60?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-A200	2438119.50	1963 Q2?	Nike Zeus	3	ZW-61?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S229	2438173.50	1963 May 24	Nike Zeus DM-15S	-	ZK-20 20138 (100)	ZK-20 DM-15S Agena	-	-	-	KMR	-	-	-	200?	-	-
1963-S631	2438180.50	1963 May 31	Nike Zeus	3	ZW-62?	-	-	-	-	WS	-	-	-	50?	-	-
1963-S259	2438185.50	1963 Jun 5	Nike Zeus	3	ZW-63	JFK Demo	-	-	-	WS	LC38	-	-	50?	-	-
1963-S272	2438192.90	1963 Jun 12 0930?	Nike Zeus	3	ZK-21	K-15 Atlas Intercept	-	-	-	KMR	-	-	-	80?	-	-
1963-S319	2438211.50	1963 Jul 1	Nike Zeus	3	ZW-64 (104)	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S324	2438213.50	1963 Jul 3	Nike Zeus	3	ZK-22?	K-23 Atlas Intercept	-	-	-	KMR	-	-	-	80?	-	-
1963-S325	2438213.50	1963 Jul 3	Nike Zeus	3	ZW-65?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S360	2438236.50	1963 Jul 26	Nike Zeus	3	ZW-66?	Nike X R&D	-	-	-	WS	LC38	-	-	40?	-	-
1963-S382	2438249.50	1963 Aug 8	Nike Zeus	3	ZW-67?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S388	2438256.50	1963 Aug 15	Nike Zeus	3	ZK-23?	K-26 Titan Intercept	-	-	-	KMR	-	-	-	80?	-	-
1963-S406	2438265.50	1963 Aug 24	Nike Zeus	3	ZK-24?	K-28 Atlas Intercept	-	-	-	KMR	-	-	-	80?	-	-
1963-M66	2438292.50	1963 Sep 20	Nike Zeus	3	ZK-25?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-M64	2438310.50	1963 Oct 8	Nike Zeus	3	ZK-26?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-A201	2438313.50	1963 Oct 11?	Nike Zeus	3	ZW-68?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S620	2438325.50	1963 Oct 23	Nike Zeus	3	ZW-69?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-S530	2438334.50	1963 Nov 1	Nike Zeus	3	ZW-70?	-	-	-	-	WS	LC38	-	-	50?	-	-
1963-M65	2438345.50	1963 Nov 12	Nike Zeus	3	ZK-27?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-S553	2438347.50	1963 Nov 14	Nike Zeus	3	ZK-28?	K-24 Titan Intercept	-	-	-	KMR	-	-	-	80?	-	-
1963-M67	2438353.50	1963 Nov 20	Nike Zeus	3	ZK-29?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-M63	2438360.50	1963 Nov 27	Nike Zeus	3	ZK-30?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-S602	2438374.50	1963 Dec 11?	Nike Zeus	3	ZW-71?	Nike X R&D,last WS	-	-	-	WS	LC38	-	-	50?	-	-
1963-M68	2438029.50	1963?	Nike Zeus	3	ZK-31?	-	-	-	-	KMR	-	-	-	80?	-	-
1963-M69	2438029.50	1963?	Nike Zeus	3	ZK-32?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-S17	2438400.50	1964 Jan 6	Nike Zeus DM-15S	-	ZK-33?	ASAT training	-	-	-	KMR	-	-	-	80?	-	-
1964-M138	2438443.50	1964 Feb 18?	Nike Zeus	3	ZK-34?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M139	2438425.50	1964 Feb?	Nike Zeus	3	ZK-35?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M140	2438425.50	1964 Feb?	Nike Zeus DM-15S	-	ZK-36?	ASAT training	-	-	-	KMR	-	-	-	80?	-	-
1964-M141	2438454.50	1964 Mar?	Nike Zeus	3	ZK-37?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M142	2438454.50	1964 Mar?	Nike Zeus	3	ZK-38?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M143	2438485.50	1964 Apr?	Nike Zeus	3	ZK-39?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M144	2438515.50	1964 May?	Nike Zeus	3	ZK-40?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M145	2438515.50	1964 May?	Nike Zeus	3	ZK-41?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M132	2438515.50	1964 May?	Nike Zeus	3	ZK-44?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M133	2438546.50	1964 Jun?	Nike Zeus	3	ZK-45?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M134	2438546.50	1964 Jun?	Nike Zeus	3	ZK-46?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M135	2438546.50	1964 Jun?	Nike Zeus	3	ZK-47?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-S793	2438585.50	1964 Jul 9	Nike Zeus	3	ZK-42 20157	Sim Target Intercept	-	-	-	KMR	-	-	-	80?	-	-
1964-M130	2438585.50	1964 Jul 9	Nike Zeus	3	ZK-43 20158	Sim Target Intercept	-	-	-	KMR	-	-	-	70?	-	-
1964-M136	2438668.50	1964 Q4?	Nike Zeus	3	ZK-48?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M137	2438668.50	1964 Q4?	Nike Zeus	3	ZK-49?	-	-	-	-	KMR	-	-	-	80?	-	-
1964-M131	2438738.50	1964 Dec 9	Nike Zeus	3	ZW-72 20061	Special Comms Round	-	-	-	WS	LC38	-	-	50?	-	-
1965-S784	2438790.50	1965 Jan 30	Nike Zeus	3	ZK-50 20155	Sim SLBM Target	-	-	-	KMR	-	-	-	80?	-	-
1965-S785	2438790.50	1965 Jan 30	Nike Zeus	3	ZK-51 20162	Sim SLBM Target	-	-	-	KMR	-	-	-	80?	-	-
1965-S113	2438819.50	1965 Mar	Nike Zeus	3	ZK-52?	Sim target	-	-	-	KMR	-	-	-	80?	-	-
1965-S114	2438819.50	1965 Mar	Nike Zeus	3	ZK-53?	Sim target	-	-	-	KMR	-	-	-	80?	-	-
1965-S788	2438760.50	1965?	Nike Zeus	3	ZK-54?	-	-	-	-	KMR	-	-	-	80?	-	-
1965-S330	2438850.50	1965 Apr	Nike Zeus DM-15S	?	ZK-55?	Exoatm test	-	-	-	KMR	-	-	-	80?	-	-
1965-S331	2438911.50	1965 Jun?	Nike Zeus DM-15S	-	ZK-56?	DM-15S2 Qual-0	-	-	-	KMR	-	-	-	80?	-	-
1965-S410	2438911.50	1965 Jun?	Nike Zeus DM-15S	-	ZK-57? 20170	DM-15S2 Qual-1	-	-	-	KMR	-	-	-	100?	-	-
1965-S411	2438949.50	1965 Jul 8	Nike Zeus DM-15S	-	ZK-58? 20173	DM-15S2 Qual-2	-	-	-	KMR	-	-	-	100?	-	-
1965-S787	2438970.50	1965 Jul 29	Nike Zeus DM-15S	-	ZK-59? 20174	DM-15S2 Qual-3	-	-	-	KMR	-	-	-	100?	-	-
1966-S61	2439138.50	1966 Jan 13	Nike Zeus DM-15S	-	ZK-60	-	-	-	-	KMR	-	-	-	80?	-	-
1966-S257	2439251.50	1966 May 6	Nike Zeus DM-15S	?	ZK-61 20139	-	-	-	-	KMR	-	-	-	80?	-	-
1968-S230	2439945.50	1968 Mar 30	Spartan ABM	-	800003	KT-1	-	-	-	KMR	Meck	-	-	100?	-	-
1968-S337	2439998.50	1968 May 22	Spartan ABM	-	800004	KT-2	-	-	-	KMR	Meck	-	-	100?	-	-
1968-M16	2440075.50	1968 Aug 7	Spartan ABM	-	800005	KT-3	-	-	-	KMR	Meck	-	-	50?	-	-
1968-A96	2440115.50	1968 Sep 16	Spartan ABM	-	800007	KT-4	-	-	-	KMR	Meck	-	-	2?	-	-
1968-A112	2440181.50	1968 Nov 21	Spartan ABM	-	800006	KT-5	-	-	-	KMR	Meck	-	-	2?	-	-
1969-M04	2440258.50	1969 Feb 6	Spartan ABM	-	800008	KT-6	-	-	-	KMR	Meck	-	-	50?	-	-
1969-S299	2440336.50	1969 Apr 25	Spartan ABM	-	800010	KT-7	-	-	-	KMR	Meck	-	-	100?	-	-
1969-S333	2440359.50	1969 May 18	Spartan ABM	-	800009	KT-8	-	-	-	KMR	Meck	-	-	400?	-	-
1969-A96	2440376.50	1969 Jun 4	Spartan ABM	-	800011	KT-9	-	-	-	KMR	Meck	-	-	1?	-	-
1969-S410	2440418.50	1969 Jul 16	Spartan ABM	-	800013	KT-10	-	-	-	KMR	Meck	-	-	100?	-	-
1969-M26	2440433.50	1969 Jul 31	Spartan ABM	-	800014	KT-11	-	-	-	KMR	Meck	-	-	50?	-	-
1969-A140	2440446.50	1969 Aug 13	Spartan ABM	-	800012	KT-12	-	-	-	KMR	Meck	-	-	0	-	-
1969-M32	2440511.50	1969 Oct 17	Spartan ABM	-	800016	KT-13	-	-	-	KMR	Meck	-	-	50?	-	-
1969-M33	2440550.50	1969 Nov 25	Spartan ABM	-	800015	KT-14	-	-	-	KMR	Meck	-	-	50?	-	-
1969-S674	2440570.50	1969 Dec 15	Spartan ABM	-	800017	KT-15	-	-	-	KMR	Meck	-	-	100?	-	-
1970-S298	2440690.50	1970 Apr 14	Spartan ABM	-	800018	SAFEGUARD M1-1	-	-	-	KMR	Meck	-	-	40?	-	-
1970-S403	2440761.50	1970 Jun 24	Spartan ABM	-	800019	SAFEGUARD M1-1A	-	-	-	KMR	Meck	-	-	100?	-	-
1970-S496	2440826.50	1970 Aug 28	Spartan ABM	-	-	SAFEGUARD M1-4	-	-	-	KMR	Meck	-	-	100?	-	-
1970-S549	2440862.50	1970 Oct 3	Spartan ABM	-	-	SAFEGUARD M1-27	-	-	-	KMR	Meck	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-S57	2440962.50	1971 Jan 11	Spartan ABM	-	800021	SAFEGUARD M1-30	-	-	-	KMR	Meck	-	-	100?	-	-
1971-S58	2440962.50	1971 Jan 11	Spartan ABM	-	800024	SAFEGUARD M1-30	-	-	-	KMR	Meck	-	-	100?	-	-
1971-S239	2441062.50	1971 Apr 21	Spartan ABM	-	-	SAFEGUARD M1-7A	-	-	-	KMR	Meck	-	-	100?	-	-
1971-S412	2441190.50	1971 Aug 27	Spartan ABM	-	800031	SAFEGUARD M2-1	-	-	-	KMR	Meck	-	-	123	-	-
1971-A82	2441217.50	1971 Sep 23	Spartan ABM	-	800032	SAFEGUARD M1-14A	-	-	-	KMR	Meck	-	-	10?	-	-
1971-S597	2441293.50	1971 Dec 8	Spartan ABM	-	800027	SAFEGUARD M2-3	-	-	-	KMR	Meck	-	-	148	-	-
1972-S44	2441336.50	1972 Jan 20	Spartan ABM	-	800030	SAFEGUARD M2-6	-	-	-	KMR	Meck	-	-	88	-	-
1972-S141	2441406.50	1972 Mar 30	Spartan ABM	-	800033	SAFEGUARD M2-9	-	-	-	KMR	Meck	-	-	130	-	-
1972-A64	2441477.50	1972 Jun 9	Spartan ABM	?	-	Isolated Rail Test	-	-	-	KMR	Meck	-	-	1?	-	-
1972-M07	2441491.50	1972 Jun 23	Spartan ABM	-	800026	SAFEGUARD M2-19	-	-	-	KMR	Meck	-	-	70	-	-
1972-S277	2441532.50	1972 Aug 3	Spartan ABM	-	800029	SAFEGUARD M2-34	-	-	-	KMR	Meck	-	-	100?	-	-
1972-S366	2441616.50	1972 Oct 26	Spartan ABM	-	800037	SAFEGUARD M2-12	-	-	-	KMR	Meck	-	-	100?	-	-
1972-M10	2441624.50	1972 Nov 3	Spartan ABM	-	800036	SAFEGUARD M2-40	-	-	-	KMR	Meck	-	-	50?	-	-
1973-S31	2441707.50	1973 Jan 25	Spartan ABM	-	800039	SAFEGUARD M2-26	-	-	-	KMR	Meck	-	-	150?	-	-
1973-S58	2441716.50	1973 Feb 3	Spartan ABM	-	800035	SAFEGUARD M2-43	-	-	-	KMR	Meck	-	-	100?	-	-
1973-S206	2441855.50	1973 Jun 22	Spartan ABM	-	PFT-01	SAFEGUARD M2-45	-	-	-	KMR	Meck	-	-	347	-	-
1973-S207	2441855.50	1973 Jun 22	Spartan ABM	-	800038	SAFEGUARD M2-45	-	-	-	KMR	Meck	-	-	340?	-	-
1974-A03	2442069.50	1974 Jan 22	Spartan ABM	-	PFT-02	SAFEGUARD M2-245	-	-	-	KMR	Meck	-	-	20?	-	-
1974-S271	2442246.50	1974 Jul 18	Spartan ABM	-	-	SAFEGUARD TRM-133	-	-	-	KMR	Meck	-	-	100?	-	-
1974-S311	2442310.50	1974 Sep 20	Spartan ABM	-	PFT-02A	SAFEGUARD M2-245A	-	-	-	KMR	Meck	-	-	100?	-	-
1974-S370	2442352.50	1974 Nov 1	Spartan ABM	-	PFT-3	SAFEGUARD M2-445	-	-	-	KMR	Meck	-	-	100?	-	-
1975-S114	2442505.50	1975 Apr 3	Spartan ABM	-	PFT-4	SAFEGUARD M2-345	-	-	-	KMR	Meck	-	-	100?	-	-
1975-S125	2442519.50	1975 Apr 17	Spartan ABM	-	PFT-5	SAFEGUARD M2-545	-	-	-	KMR	Meck	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A145	2436807.23	1959 Aug 26 1735	Nike Zeus A	-	ZW-1/101	0.000	ARGMA	MF	S1	-	Test	Wire(MST?)	MR591109-26	-
1959-M36	2436856.19	1959 Oct 14 1630	Nike Zeus A	-	ZW-2/102	0.000	ARGMA	MS	-	-	Test	ElPasoHeraldPo/MST?	-	-
1959-A207	2436918.50	1959 Dec 16	Nike Zeus A	-	ZW-3/104	0.000	ARGMA	MF	S1	-	Test	UPI	-	-
1960-M01	2436968.38	1960 Feb 3 2102	Nike Zeus A	-	ZW-4/105	0.000	ARGMA	MS	-	-	Test	Wire	MR600516-12	-
1960-M03	2437002.50	1960 Mar 9	Nike Zeus A	-	ZW-5/106	0.000	ARGMA	MS	-	-	Test	ElPasoHeraldPo	-	-
1960-S85	2437053.12	1960 Apr 28 1450	Nike Zeus A	?	ZW-6/107	0.000	ARGMA	MS	-	-	Test	Wire	MR600516-12	-
1960-M13	2437079.50	1960 May 25	Nike Zeus A	-	ZW-7	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1960-S116	2437107.50	1960 Jun 22	Nike Zeus A	?	ZW-8	0.000	ARGMA	MF	U	-	Test	Wire	-	-
1960-S229	2437156.50	1960 Aug 10	Nike Zeus	-	ZW-9/20009	0.000	ARGMA	MS	-	-	Test	Wire	MR600912-11	-
1960-S304	2437181.50	1960 Sep 4	Nike Zeus	-	ZW-10	0.000	ARGMA	MS	-	-	Test	Ulrich	-	-
1960-S386	2437238.50	1960 Nov?	Nike Zeus	-	ZW-11	0.000	ARGMA	MS	-	-	Test	Stat	-	-
1960-S392	2437269.50	1960 Dec 1	Nike Zeus	-	ZW-12/20013	0.000	ARGMA	MS	-	-	Test	MR601212-11	-	-
1961-S11	2437315.50	1961 Jan 16	Nike Zeus	-	ZW-13	0.000	ARGMA	MF	U	-	Test	Ulrich	-	-
1961-A255	2437330.50	1961 Jan 31	Nike Zeus	-	ZW-14/20016	0.000	ARGMA	MF	U	-	Test	Ulrich	-	-
1961-A256	2437415.50	1961 Apr 26	Nike Zeus	-	ZW-15	0.000	ARGMA	MF	U	-	Test	Ulrich	-	-
1961-S194	2437445.52	1961 May 26 0030	Nike Zeus	-	ZW-16/20021	0.000	ARGMA	MS	-	-	Test	Wire/Ulrich	-	-
1961-A257	2437449.50	1961 May 30	Nike Zeus	-	ZW-17?	0.000	ARGMA	MU	-	-	Test	Stat	-	-
1961-S98	2437474.49	1961 Jun 23 2340	Nike Zeus	-	ZW-18?	0.000	ARGMA	MS	-	-	Test	Wire(MST?)	-	-
1961-S195	2437480.50	1961 Q3	Nike Zeus	-	ZW-19?	0.000	ARGMA	MS	-	-	Test	Stat	-	-
1961-A258	2437480.50	1961 Q3?	Nike Zeus	-	ZW-20?	0.000	ARGMA	MU	-	-	Test	Stat	-	-
1961-S197	2437506.50	1961 Jul 26	Nike Zeus	-	ZW-21?	0.000	ARGMA	MS	-	-	Test	Ulrich	-	-
1961-S196	2437537.36	1961 Aug 25 2034	Nike Zeus	-	ZW-22 20019	0.000	ARGMA	MS	-	-	Test	WSMR-ARC-98.122.003	-	-
1961-S198	2437542.50	1961 Aug 31	Nike Zeus	-	ZW-23?	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1961-A259	2437548.50	1961 Sep 6	Nike Zeus	-	ZW-24?	0.000	ARGMA	MU	-	-	Test	Ulrich	-	-
1961-A197	2437552.33	1961 Sep 9 2002	Nike Zeus	-	ZM-1 20025	0.000	ARGMA	MF	U	-	Test	MR610918-11	-	-
1961-A200	2437557.50	1961 Sep 15	Nike Zeus	-	ZW-25?	0.000	ARGMA	MS	-	-	Test	MR610925-10	-	-
1961-A260	2437563.50	1961 Sep 21	Nike Zeus	-	ZW-26? 20026	0.000	ARGMA	MU	-	-	Test	Ulrich	-	-
1961-A217	2437580.25	1961 Oct 7 1803	Nike Zeus	-	ZM-2	0.000	ARGMA	MF	U	-	Test	Wire(PDT?)	MR611016-11	-
1961-A261	2437610.50	1961 Nov 7?	Nike Zeus	-	ZW-27?	0.000	ARGMA	MU	-	-	Test	Ulrich	-	-
1961-S375	2437618.50	1961 Nov 15	Nike Zeus	-	ZW-28 20030	0.000	ARGMA	MS	-	-	Test	CDBMD	-	-
1961-S376	2437618.50	1961 Nov 15	Nike Zeus	-	ZW-29?	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1961-S380	2437620.36	1961 Nov 16 2037	Nike Zeus	-	ZM-3	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1961-S385	2437625.29	1961 Nov 21 1900	Nike Zeus	-	ZM-4	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1961-S398	2437633.50	1961 Nov 30	Nike Zeus	3	ZW-30?	0.000	ARGMA	MS	-	-	Test	Wire	-	-
1961-A262	2437637.50	1961 Dec 4?	Nike Zeus	-	ZW-31?	0.000	NIKEZ	MU	-	-	Test	Ulrich	-	-
1961-A263	2437641.50	1961 Dec 8?	Nike Zeus	-	ZW-32?	0.000	NIKEZ	MU	-	-	Test	Ulrich	-	-
1961-A264	2437572.50	1961 Q4?	Nike Zeus	-	ZW-33?	0.000	NIKEZ	MU	-	-	Test	Stat	-	-
1961-S550	2437643.29	1961 Dec 9 1900	Nike Zeus	3	ZM-5	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1961-S424	2437648.33	1961 Dec 14 2000?	Nike Zeus	3	ZK-1 20047	0.000	NIKEZ	MF	U	-	Test	MR620101-7	-	-
1961-S423	2437648.35	1961 Dec 14 2026	Nike Zeus	-	ZM-6 20043	0.000	NIKEZ	MS	-	-	Test	Wire	MR620101-7	-
1961-A248	2437648.38	1961 Dec 14 2100?	Nike Zeus	-	ZW-34 20041	0.000	NIKEZ	MS	-	-	Test	MR620101-7	-	-
1962-S07	2437682.50	1962 Jan 18	Nike Zeus	-	ZW-35	0.000	NIKEZ	MS	-	-	Test	WSRM-archive	Wire:620126	-
1962-S26	2437690.42	1962 Jan 25 2202	Nike Zeus	-	ZM-7	0.000	NIKEZ	MS	-	-	Test	Wire	MR620205-10	-
1962-S32	2437696.50	1962 Feb 1	Nike Zeus	3	ZW-36?	0.000	NIKEZ	MS	-	-	Test	MR620212-10	Wire	-
1962-S34	2437702.50	1962 Feb 7	Nike Zeus	-	ZW-37?	0.000	NIKEZ	MS	-	-	Test	MR620212-10	-	-
1962-A20	2437708.74	1962 Feb 13 0552	Nike Zeus	-	ZM-8	0.000	NIKEZ	MF	U	-	Test	Ulrich	MR620219-10	-
1962-A250	2437718.50	1962 Feb 23	Nike Zeus	3	ZW-38?	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1962-S59	2437728.50	1962 Mar 5	Nike Zeus	3	ZK-2	0.000	NIKEZ	MS	-	-	Test	MR620312-10	WireMar8	-
1962-A32	2437732.51	1962 Mar 9 0016	Nike Zeus	3	ZM-9	0.000	NIKEZ	MF	U	-	Test	LongBeachInd620309	MR620319-11	-
1962-S65	2437736.50	1962 Mar 13	Nike Zeus	3	ZW-39?	0.000	NIKEZ	MS	-	-	Test	MR620319-11	-	-
1962-S66	2437736.50	1962 Mar 13	Nike Zeus	3	ZW-40?	0.000	NIKEZ	MS	-	-	Test	MR620319-11	-	-
1962-A38	2437751.50	1962 Mar 28	Nike Zeus	3	ZW-41?	0.000	NIKEZ	MS	-	-	Test	MR620409-10	-	-
1962-A245	2437664.50	1962 Q1?	Nike Zeus	3	ZK-3	0.000	NIKEZ	MU	-	-	Test	Stat	-	-
1962-A246	2437754.50	1962 Q2?	Nike Zeus	3	ZK-4	0.000	NIKEZ	MU	-	-	Test	Stat	-	-
1962-A247	2437754.50	1962 Q2?	Nike Zeus	3	ZK-5	0.000	NIKEZ	MU	-	-	Test	Stat	-	-
1962-S88	2437759.50	1962 Apr 5	Nike Zeus	3	ZW-42?	0.000	NIKEZ	MS	-	-	Test	MR620416-10	-	-
1962-S95	2437767.34	1962 Apr 12 2009	Nike Zeus	3	ZM-10?	0.000	NIKEZ	MS	-	-	Test	SarasotaHT620413	MR620423-10	-
1962-A55	2437773.50	1962 Apr 19	Nike Zeus	-	ZM-11?	0.000	NIKEZ	MF	U	-	Test	MR620430-10	-	-
1962-S112	2437781.50	1962 Apr 27	Nike Zeus	3	ZW-43?	0.000	NIKEZ	MS	-	-	Test	MR620507-10	-	-
1962-S116	2437784.50	1962 Apr 30	Nike Zeus	3	ZW-44?	0.000	NIKEZ	MS	-	-	Test	MR620514-10	-	-
1962-M07	2437794.42	1962 May 9 2208	Nike Zeus	3	ZM-12	0.000	NIKEZ	MF	U	-	Test	Wire	MR620521-8	-
1962-A248	2437796.50	1962 May 12	Nike Zeus	3	ZW-45?	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1962-S143	2437811.25	1962 May 26 1804	Nike Zeus	3	ZM-13	0.000	NIKEZ	MS	-	-	Test	Wire	MR620604-10	-
1962-A100	2437841.98	1962 Jun 26 1130?	Nike Zeus	3	ZK-6	0.000	NIKEZ	MF	U	-	Test	NZeus	-	-
1962-M55	2437843.50	1962 Jun 28	Nike Zeus	3	ZW-46?	0.000	NIKEZ	MS	-	-	Test	NH-Bell	-	-
1962-S243	2437861.50	1962 Jul 16	Nike Zeus	3	ZW-47?	0.000	NIKEZ	MS	-	-	Test	MR620723-10	-	-
1962-S248	2437864.98	1962 Jul 19 1135?	Nike Zeus	3	ZK-7 20071	0.000	NIKEZ	MS	-	-	Test	NZeus	Rigg	-
1962-A249	2437876.50	1962 Jul 31	Nike Zeus	3	ZW-48	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1962-S310	2437901.59	1962 Aug 25 0207	Nike Zeus	3	ZM-14	0.000	NIKEZ	MF	U	-	Test	Ulrich/Wire	MR620903-10	-
1962-S314	2437905.70	1962 Aug 29 0450	Nike Zeus	3	ZW-47? /?/	0.000	NIKEZ	MS	-	-	Test	Ulrich/Wire	MR620903-10	-
1962-S346	2437934.50	1962 Sep 27	Nike Zeus	3	ZW-49?	0.000	NIKEZ	MS	-	-	Test	MR621008-10	-	-
1962-M28	2437962.29	1962 Oct 24 1900	Nike Zeus	3	ZM-15 (F44)	0.000	NIKEZ	MF	U	-	Test	Wire	MR621105-11	-
1962-S473	2437976.50	1962 Nov 8	Nike Zeus	3	ZW-50?	0.000	NIKEZ	MS	-	-	Test	MR621119-9	FI630801-177	-
1962-S472	2437977.63	1962 Nov 9 0312	Nike Zeus	3	ZM-16	0.000	NIKEZ	MS	-	-	Test	Wire	MR621119-9	-
1962-S497	2437997.48	1962 Nov 28 2325	Nike Zeus	3	ZM-17	0.000	NIKEZ	MS	-	-	Test	Wire	MR621210-12	-
1962-S501	2437997.50	1962 Nov 29	Nike Zeus	3	ZW-51?	0.000	NIKEZ	MS	-	-	Test	MR621210-12	FI630801-177	-
1962-S637	2438007.39	1962 Dec 8 2120	Nike Zeus	3	ZM-18	0.000	NIKEZ	MF	U	-	Test	PressCourier621210	-	-
1962-S557	2438011.01	1962 Dec 12 1210?	Nike Zeus	3	ZK-8? 20066	0.000	NIKEZ	MS	-	-	Test	NZeus	MR621217-12	-
1962-A241	2438011.01	1962 Dec 12 1210?	Nike Zeus	3	ZK-9? 20077	0.000	NIKEZ	MF	U	-	Test	Wire	FI630801-177	-
1962-S507	2438015.50	1962 Dec 17	Nike Zeus DM-15S	-	ZW-52? MUDFLAP 1	0.000	NIKEZ	MS	-	-	ASAT Test MUDFLAP	Bell	FI630801-177	-
1962-S574	2438018.41	1962 Dec 19 2151	Nike Zeus	3	ZM-19	0.000	NIKEZ	MS	-	-	Test	Wire	MR621224-10	-
1962-S578	2438020.92	1962 Dec 22 1000?	Nike Zeus	3	ZK-10? 20068	0.000	NIKEZ	MS	-	-	Test	NZeus	-	-
1962-A242	2438020.92	1962 Dec 22 1000?	Nike Zeus	3	ZK-11? 20100	0.000	NIKEZ	MF	U	-	Test	Wire	FI630801-177	-
1963-S630	2438066.50	1963 Feb 6	Nike Zeus	3	ZW-53?	0.000	NIKEZ	MS	-	-	Test	FI630801-177	-	-
1963-S47	2438074.02	1963 Feb 13 1230?	Nike Zeus	3	ZK-12?	0.000	NIKEZ	MS	-	-	Test	NZeus	-	-
1963-S52	2438076.52	1963 Feb 16 0030	Nike Zeus DM-15S	-	ZW-54? MUDFLAP 2	0.000	NIKEZ	MS	-	-	ASAT Test	Wire	Bell	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S58	2438080.50	1963 Feb 20	Nike Zeus	3	ZW-55?	0.000	NIKEZ	MS	-	-	Test	FI630801-177	WSMR	-
1963-S73	2438088.90	1963 Feb 28 0930?	Nike Zeus	3	ZK-13?	0.000	NIKEZ	MS	-	-	Test	NZeus	-	-
1963-S29	2438109.50	1963 Mar 21	Nike Zeus DM-15S	-	ZK-14?/MUDFLAP 3	0.000	NIKEZ	MS	-	-	ASAT Test	Bell	-	-
1963-S125	2438118.50	1963 Mar 30	Nike Zeus	3	ZK-15? 20114	0.000	NIKEZ	MS	-	-	Test	NZeus	FI630801-177	-
1963-S149	2438132.50	1963 Apr 13	Nike Zeus	3	ZK-16?	0.000	NIKEZ	MS	-	-	Test	NZeus	-	-
1963-S162	2438137.50	1963 Apr 18	Nike Zeus	3	ZW-56?	0.000	NIKEZ	MS	-	-	Test	FI630801-177	-	-
1963-M60	2438138.50	1963 Apr 19	Nike Zeus DM-15S	-	ZK-17?	0.000	NIKEZ	MS	-	-	Test	Bell	-	-
1963-S172	2438143.50	1963 Apr 24	Nike Zeus	3	ZW-57?	0.000	NIKEZ	MS	-	-	Test	FI630801-177	-	-
1963-A72	2438159.50	1963 May 10	Nike Zeus	3	ZW-58?	0.000	NIKEZ	MF	U	-	Test	SP-4004	Wire	-
1963-M61	2438119.50	1963 Q2?	Nike Zeus	3	ZK-18?	0.000	NIKEZ	MS	-	-	Test	Stat	-	-
1963-M62	2438119.50	1963 Q2?	Nike Zeus	3	ZK-19?	0.000	NIKEZ	MS	-	-	Test	Stat	-	-
1963-A198	2438119.50	1963 Q2?	Nike Zeus	3	ZW-59?	0.000	NIKEZ	MS	-	-	Test	Stat	-	-
1963-A199	2438119.50	1963 Q2?	Nike Zeus	3	ZW-60?	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1963-A200	2438119.50	1963 Q2?	Nike Zeus	3	ZW-61?	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1963-S229	2438173.50	1963 May 24	Nike Zeus DM-15S	-	ZK-20 20138 (100)	0.000	NIKEZ	MS	-	-	ASAT Test	Bell	-	-
1963-S631	2438180.50	1963 May 31	Nike Zeus	3	ZW-62?	0.000	NIKEZ	MF	U	-	Test	FI630801-177	-	-
1963-S259	2438185.50	1963 Jun 5	Nike Zeus	3	ZW-63	0.000	NIKEZ	MS	-	-	Test	SP-4004	FI630801-177	-
1963-S272	2438192.90	1963 Jun 12 0930?	Nike Zeus	3	ZK-21	0.000	NIKEZ	MS	-	-	Test	SP-4004	-	-
1963-S319	2438211.50	1963 Jul 1	Nike Zeus	3	ZW-64 (104)	0.000	NIKEZ	MS	-	-	Test	Wire	-	-
1963-S324	2438213.50	1963 Jul 3	Nike Zeus	3	ZK-22?	0.000	NIKEZ	MS	-	-	Test	Bell	-	-
1963-S325	2438213.50	1963 Jul 3	Nike Zeus	3	ZW-65?	0.000	NIKEZ	MS	-	-	Test	JCM	-	-
1963-S360	2438236.50	1963 Jul 26	Nike Zeus	3	ZW-66?	0.000	NIKEZ	MS	-	-	Test	Wire	-	-
1963-S382	2438249.50	1963 Aug 8	Nike Zeus	3	ZW-67?	0.000	NIKEZ	MS	-	-	Test	JCM	-	-
1963-S388	2438256.50	1963 Aug 15	Nike Zeus	3	ZK-23?	0.000	NIKEZ	MS	-	-	Test	Bell	-	-
1963-S406	2438265.50	1963 Aug 24	Nike Zeus	3	ZK-24?	0.000	NIKEZ	MS	-	-	Test	Bell	-	-
1963-M66	2438292.50	1963 Sep 20	Nike Zeus	3	ZK-25?	0.000	NIKEZ	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1963-M64	2438310.50	1963 Oct 8	Nike Zeus	3	ZK-26?	0.000	NIKEZ	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1963-A201	2438313.50	1963 Oct 11?	Nike Zeus	3	ZW-68?	0.000	NIKEZ	MS	-	-	Test	Ulrich	-	-
1963-S620	2438325.50	1963 Oct 23	Nike Zeus	3	ZW-69?	0.000	NIKEZ	MS	-	-	Test	Wire	-	-
1963-S530	2438334.50	1963 Nov 1	Nike Zeus	3	ZW-70?	0.000	NIKEZ	MS	-	-	Test	Ulrich/wsmr-archive	-	-
1963-M65	2438345.50	1963 Nov 12	Nike Zeus	3	ZK-27?	0.000	NIKEZ	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1963-S553	2438347.50	1963 Nov 14	Nike Zeus	3	ZK-28?	0.000	NIKEZ	MS	-	-	Interceptor	Bell	Ulrich/wsmr-archive	-
1963-M67	2438353.50	1963 Nov 20	Nike Zeus	3	ZK-29?	0.000	NIKEZ	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1963-M63	2438360.50	1963 Nov 27	Nike Zeus	3	ZK-30?	0.000	NIKEZ	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1963-S602	2438374.50	1963 Dec 11?	Nike Zeus	3	ZW-71?	0.000	NIKEZ	MS	-	-	Test	Wire(thisweek)	WSMR	-
1963-M68	2438029.50	1963?	Nike Zeus	3	ZK-31?	0.000	NIKEZ	MS	-	-	Interceptor	Stat	-	-
1963-M69	2438029.50	1963?	Nike Zeus	3	ZK-32?	0.000	NIKEZ	MS	-	-	Interceptor	Stat	-	-
1964-S17	2438400.50	1964 Jan 6	Nike Zeus DM-15S	-	ZK-33?	0.000	NIKEZ	MS	-	-	Interceptor	Stares	-	-
1964-M138	2438443.50	1964 Feb 18?	Nike Zeus	3	ZK-34?	0.000	NIKEX	MS	-	-	Interceptor	Ulrich/wsmr-archive	-	-
1964-M139	2438425.50	1964 Feb?	Nike Zeus	3	ZK-35?	0.000	NIKEX	MS	-	-	Interceptor	Bell	-	-
1964-M140	2438425.50	1964 Feb?	Nike Zeus DM-15S	-	ZK-36?	0.000	NIKEX	MS	-	-	Interceptor	Bell	-	-
1964-M141	2438454.50	1964 Mar?	Nike Zeus	3	ZK-37?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M142	2438454.50	1964 Mar?	Nike Zeus	3	ZK-38?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M143	2438485.50	1964 Apr?	Nike Zeus	3	ZK-39?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M144	2438515.50	1964 May?	Nike Zeus	3	ZK-40?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M145	2438515.50	1964 May?	Nike Zeus	3	ZK-41?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M132	2438515.50	1964 May?	Nike Zeus	3	ZK-44?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M133	2438546.50	1964 Jun?	Nike Zeus	3	ZK-45?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M134	2438546.50	1964 Jun?	Nike Zeus	3	ZK-46?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-M135	2438546.50	1964 Jun?	Nike Zeus	3	ZK-47?	0.000	NIKEX	MS	-	-	Interceptor	PMRHiist64	-	-
1964-S793	2438585.50	1964 Jul 9	Nike Zeus	3	ZK-42 20157	0.000	NIKEX	MS	-	-	Interceptor	CDBMD	-	-
1964-M130	2438585.50	1964 Jul 9	Nike Zeus	3	ZK-43 20158	0.000	NIKEX	MS	-	-	Interceptor	CDBMD	-	-
1964-M136	2438668.50	1964 Q4?	Nike Zeus	3	ZK-48?	0.000	NIKEX	MS	-	-	Interceptor	Stat	-	-
1964-M137	2438668.50	1964 Q4?	Nike Zeus	3	ZK-49?	0.000	NIKEX	MS	-	-	Interceptor	Stat	-	-
1964-M131	2438738.50	1964 Dec 9	Nike Zeus	3	ZW-72 20061	0.000	NIKEX	MS	-	-	Test	CDBMD	-	-
1965-S784	2438790.50	1965 Jan 30	Nike Zeus	3	ZK-50 20155	0.000	NIKEX	MS	-	-	Interceptor	CDBMD	-	-
1965-S785	2438790.50	1965 Jan 30	Nike Zeus	3	ZK-51 20162	0.000	NIKEX	MS	-	-	Interceptor	CDBMD	-	-
1965-S113	2438819.50	1965 Mar	Nike Zeus	3	ZK-52?	0.000	NIKEX	MS	-	-	Interceptor	MR650405-10	-	-
1965-S114	2438819.50	1965 Mar	Nike Zeus	3	ZK-53?	0.000	NIKEX	MS	-	-	Interceptor	MR650405-10	-	-
1965-S788	2438760.50	1965?	Nike Zeus	3	ZK-54?	0.000	NIKEX	MS	-	-	Interceptor	Stat	-	-
1965-S330	2438850.50	1965 Apr	Nike Zeus DM-15S	?	ZK-55?	0.000	NIKEX	MS	-	-	Interceptor	Stares	-	-
1965-S331	2438911.50	1965 Jun?	Nike Zeus DM-15S	-	ZK-56?	0.000	NIKEX	MF	U	-	Interceptor	Stares	-	-
1965-S410	2438911.50	1965 Jun?	Nike Zeus DM-15S	-	ZK-57? 20170	0.000	NIKEX	MS	-	-	ASAT Test	CDBMD	-	-
1965-S411	2438949.50	1965 Jul 8	Nike Zeus DM-15S	-	ZK-58? 20173	0.000	NIKEX	MS	-	-	ASAT Test	smdc.army.mil	CDBMD	-
1965-S787	2438970.50	1965 Jul 29	Nike Zeus DM-15S	-	ZK-59? 20174	0.000	NIKEX	MS	-	-	ASAT Test	CDBMD	-	-
1966-S61	2439138.50	1966 Jan 13	Nike Zeus DM-15S	-	ZK-60	0.000	NIKEX	MS	-	-	Interceptor	Stares	-	-
1966-S257	2439251.50	1966 May 6	Nike Zeus DM-15S	?	ZK-61 20139	0.000	NIKEX	MS	-	-	Interceptor	CDBMD	smdc.army.mil	-
1968-S230	2439945.50	1968 Mar 30	Spartan ABM	-	800003	0.000	NIKEX	MS	-	-	Test	Safeguard	-	-
1968-S337	2439998.50	1968 May 22	Spartan ABM	-	800004	0.000	NIKEX	MS	-	-	Test	Safeguard	-	-
1968-M16	2440075.50	1968 Aug 7	Spartan ABM	-	800005	0.000	NIKEX	MS	-	-	Test	Safeguard	-	-
1968-A96	2440115.50	1968 Sep 16	Spartan ABM	-	800007	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1968-A112	2440181.50	1968 Nov 21	Spartan ABM	-	800006	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1969-M04	2440258.50	1969 Feb 6	Spartan ABM	-	800008	0.000	NIKEX	MS	-	-	Test	Safeguard	-	-
1969-S299	2440336.50	1969 Apr 25	Spartan ABM	-	800010	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-S333	2440359.50	1969 May 18	Spartan ABM	-	800009	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A96	2440376.50	1969 Jun 4	Spartan ABM	-	800011	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1969-S410	2440418.50	1969 Jul 16	Spartan ABM	-	800013	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-M26	2440433.50	1969 Jul 31	Spartan ABM	-	800014	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A140	2440446.50	1969 Aug 13	Spartan ABM	-	800012	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1969-M32	2440511.50	1969 Oct 17	Spartan ABM	-	800016	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-M33	2440550.50	1969 Nov 25	Spartan ABM	-	800015	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-S674	2440570.50	1969 Dec 15	Spartan ABM	-	800017	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1970-S298	2440690.50	1970 Apr 14	Spartan ABM	-	800018	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1970-S403	2440761.50	1970 Jun 24	Spartan ABM	-	800019	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1970-S496	2440826.50	1970 Aug 28	Spartan ABM	-	-	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1970-S549	2440862.50	1970 Oct 3	Spartan ABM	-	-	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-S57	2440962.50	1971 Jan 11	Spartan ABM	-	800021	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-S58	2440962.50	1971 Jan 11	Spartan ABM	-	800024	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-S239	2441062.50	1971 Apr 21	Spartan ABM	-	-	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-S412	2441190.50	1971 Aug 27	Spartan ABM	-	800031	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A82	2441217.50	1971 Sep 23	Spartan ABM	-	800032	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1971-S597	2441293.50	1971 Dec 8	Spartan ABM	-	800027	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-S44	2441336.50	1972 Jan 20	Spartan ABM	-	800030	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-S141	2441406.50	1972 Mar 30	Spartan ABM	-	800033	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A64	2441477.50	1972 Jun 9	Spartan ABM	?	-	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1972-M07	2441491.50	1972 Jun 23	Spartan ABM	-	800026	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-S277	2441532.50	1972 Aug 3	Spartan ABM	-	800029	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-S366	2441616.50	1972 Oct 26	Spartan ABM	-	800037	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-M10	2441624.50	1972 Nov 3	Spartan ABM	-	800036	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-S31	2441707.50	1973 Jan 25	Spartan ABM	-	800039	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-S58	2441716.50	1973 Feb 3	Spartan ABM	-	800035	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-S206	2441855.50	1973 Jun 22	Spartan ABM	-	PFT-01	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-S207	2441855.50	1973 Jun 22	Spartan ABM	-	800038	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1974-A03	2442069.50	1974 Jan 22	Spartan ABM	-	PFT-02	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1974-S271	2442246.50	1974 Jul 18	Spartan ABM	-	-	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1974-S311	2442310.50	1974 Sep 20	Spartan ABM	-	PFT-02A	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1974-S370	2442352.50	1974 Nov 1	Spartan ABM	-	PFT-3	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1975-S114	2442505.50	1975 Apr 3	Spartan ABM	-	PFT-4	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1975-S125	2442519.50	1975 Apr 17	Spartan ABM	-	PFT-5	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2025-F04	2460764.94	2025 Mar 30 1030	Spectrum	-	1	Going Full Spectrum	-	-	-	AND	ISAR	-	-	1	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2025-F04	2460764.94	2025 Mar 30 1030	Spectrum	-	1	0.000	ISAR	OF	S1G	C	Sat	youtube.com	-	Lost attitude

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-A176	2438845.50	1965 Mar 26	Sprint ABM	-	PTV-1	-	-	-	-	WS	LC37?	-	-	3?	-	-
1965-A221	2438920.50	1965 Jun 9	Sprint ABM	-	PTV-2	-	-	-	-	WS	LC37?	-	-	3?	-	-
1965-A160	2439081.50	1965 Nov 17	Sprint ABM	-	FLA-1	-	-	-	-	WS	LC50	-	-	3	-	-
1966-A22	2439150.50	1966 Jan 25	Sprint ABM	-	FLA-2	-	-	-	-	WS	LC50	-	-	0	-	-
1966-A62	2439248.50	1966 May 3	Sprint ABM	-	FLA-4	-	-	-	-	WS	LC50	-	-	0	-	-
1966-A90	2439339.50	1966 Aug 2	Sprint ABM	-	FLA-5	-	-	-	-	WS	LC50	-	-	0	-	-
1966-A134	2439432.50	1966 Nov 3	Sprint ABM	-	FLA-6	-	-	-	-	WS	LC50	-	-	0	-	-
1967-A68	2439598.50	1967 Apr 18	Sprint ABM	-	FLA-9	-	-	-	-	WS	LC50	-	-	1?	-	-
1967-A84	2439633.50	1967 May 23	Sprint ABM	-	FLA-10	-	-	-	-	WS	LC50	-	-	1?	-	-
1967-A97	2439689.50	1967 Jul 18	Sprint ABM	-	FLA-8	-	-	-	-	WS	LC50	-	-	2?	-	-
1967-A103	2439710.50	1967 Aug 8	Sprint ABM	-	FLA-11	-	-	-	-	WS	LC50	-	-	2?	-	-
1967-A119	2439752.50	1967 Sep 19	Sprint ABM	-	FLA-12	-	-	-	-	WS	LC50	-	-	1?	-	-
1967-A127	2439773.50	1967 Oct 10	Sprint ABM	-	FLA-7	-	-	-	-	WS	LC50	-	-	6	-	-
1967-A133	2439794.50	1967 Oct 31	Sprint ABM	-	FLA-14	-	-	-	-	WS	LC50	-	-	6?	-	-
1967-A135	2439814.50	1967 Nov 20	Sprint ABM	-	FLA-15	-	-	-	-	WS	LC50	-	-	6?	-	-
1967-A143	2439835.50	1967 Dec 11	Sprint ABM	-	FLA-13	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A57	2439891.50	1968 Feb 5	Sprint ABM	-	FLA-16	-	-	-	-	WS	LC50	-	-	3?	-	-
1968-A63	2439912.50	1968 Feb 26	Sprint ABM	-	FLA-17	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A68	2439940.50	1968 Mar 25	Sprint ABM	-	FLA-18	-	-	-	-	WS	LC50	-	-	0	-	-
1968-A73	2439968.50	1968 Apr 22	Sprint ABM	-	FLA-19	-	-	-	-	WS	LC50	-	-	2?	-	-
1968-A83	2440034.50	1968 Jun 27	Sprint ABM	-	FLA-20	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A88	2440066.50	1968 Jul 29	Sprint ABM	-	FLA-21	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A91	2440090.50	1968 Aug 22	Sprint ABM	-	FLA-22	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A93	2440108.50	1968 Sep 9	Sprint ABM	-	FLA-23	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A106	2440137.50	1968 Oct 8	Sprint ABM	-	FLA-24	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A108	2440157.50	1968 Oct 28	Sprint ABM	-	FLA-25	-	-	-	-	WS	LC50	-	-	6?	-	-
1968-A114	2440192.50	1968 Dec 2	Sprint ABM	-	FLA-26	-	-	-	-	WS	LC50	-	-	0	-	-
1969-A42	2440262.50	1969 Feb 10	Sprint ABM	-	FLA-27	-	-	-	-	WS	LC50	-	-	6?	-	-
1969-A52	2440297.50	1969 Mar 17	Sprint ABM	-	FLA-30	-	-	-	-	WS	LC50	-	-	6?	-	-
1969-A64	2440332.50	1969 Apr 21	Sprint ABM	-	FLA-28	-	-	-	-	WS	LC50	-	-	6?	-	-
1969-A90	2440367.50	1969 May 26	Sprint ABM	-	FLA-31	-	-	-	-	WS	LC50	-	-	6?	-	-
1969-A105	2440395.50	1969 Jun 23	Sprint ABM	-	FLA-29	-	-	-	-	WS	LC50	-	-	6?	-	-
1969-A130	2440424.50	1969 Jul 22	Sprint ABM	-	FLA-32	Extended Range	-	-	-	WS	LC50	-	-	10?	-	-
1969-A152	2440479.50	1969 Sep 15	Sprint ABM	-	FLA-35	-	-	-	-	WS	LC50	-	-	10?	-	-
1969-A171	2440500.50	1969 Oct 6	Sprint ABM	-	FLA-36	-	-	-	-	WS	LC50	-	-	0	-	-
1969-A180	2440517.50	1969 Oct 23	Sprint ABM	-	FLA-38	-	-	-	-	WS	LC50	-	-	10?	-	-
1969-A187	2440531.50	1969 Nov 6	Sprint ABM	-	FLA-33	-	-	-	-	WS	LC50	-	-	2?	-	-
1969-A198	2440556.50	1969 Dec 1	Sprint ABM	-	FLA-34	-	-	-	-	WS	LC50	-	-	2?	-	-
1970-A34	2440664.50	1970 Mar 19	Sprint ABM	-	FLA-39	-	-	-	-	WS	LC50	-	-	2?	-	-
1970-A67	2440734.50	1970 May 28	Sprint ABM	-	FLA-40	-	-	-	-	WS	LC50	-	-	10?	-	-
1970-A70	2440745.50	1970 Jun 8	Sprint ABM	-	FLA-44	-	-	-	-	WS	LC50	-	-	10?	-	-
1970-A78	2440766.50	1970 Jun 29	Sprint ABM	-	FLA-43	-	-	-	-	WS	LC50	-	-	10?	-	-
1970-A92	2440810.50	1970 Aug 12	Sprint ABM	-	FLA-45	-	-	-	-	WS	LC50	-	-	10?	-	-
1970-A114	2440887.50	1970 Oct 28	Sprint ABM	-	-	SAFEGUARD M1-9	-	-	-	KMR	Meck	-	-	0	-	-
1970-A125	2440924.50	1970 Dec 4	Sprint ABM	-	-	SAFEGUARD M1-9A	-	-	-	KMR	Meck	-	-	10?	-	-
1970-A140	2440943.50	1970 Dec 23	Sprint ABM	-	FLA-49	Safeguard M1-12	-	-	-	KMR	Meck	-	-	10?	-	-
1971-A23	2441005.50	1971 Feb 23	Sprint ABM	-	FLA-46	Safeguard M1-28	-	-	-	KMR	Meck	-	-	10?	-	-
1971-A31	2441027.50	1971 Mar 17	Sprint ABM	-	FLA-50	SAFEGUARD M1-13	-	-	-	KMR	Meck	-	-	10?	-	-
1971-A32	2441027.50	1971 Mar 17	Sprint ABM	-	FLA-51	SAFEGUARD M1-13	-	-	-	KMR	Meck	-	-	10?	-	-
1971-A51	2441078.50	1971 May 7	Sprint ABM	-	FLA-42	Safeguard M1-8	-	-	-	KMR	Meck	-	-	10?	-	-
1971-A85	2441231.50	1971 Oct 7	Sprint ABM	-	FLA-48	SAFEGUARD M2-2	-	-	-	KMR	Meck	-	-	5	-	-
1971-A94	2441265.50	1971 Nov 10	Sprint ABM	-	FLA-57	SAFEGUARD M2-5	-	-	-	KMR	Meck	-	-	5	-	-
1971-A95	2441267.50	1971 Nov 12	Sprint ABM	-	FLA-56	SAFEGUARD M2-8	-	-	-	KMR	Meck	-	-	5	-	-
1972-A04	2441322.50	1972 Jan 6	Sprint ABM	-	FLA-61 Sim targ	SAFEGUARD M2-4	-	-	-	KMR	Meck	-	-	5?	-	-
1972-A23	2441392.50	1972 Mar 16	Sprint ABM	-	FLA-63	Safeguard M2-7	-	-	-	KMR	IL	-	-	5?	-	-
1972-A45	2441442.50	1972 May 5	Sprint ABM	-	FLA-64	Safeguard M2-11	-	-	-	KMR	Meck	-	-	5	-	-
1972-A59	2441461.50	1972 May 24	Sprint ABM	-	FLA-59	Safeguard M2-10	-	-	-	KMR	IL	-	-	5?	-	-
1972-A76	2441513.50	1972 Jul 15	Sprint ABM	-	FLA-53	Safeguard M2-15	-	-	-	KMR	Meck	-	-	26	-	-
1972-A89	2441546.50	1972 Aug 17	Sprint ABM	-	FLA-70	SAFEGUARD M2-42	-	-	-	KMR	Meck	-	-	0	-	-
1972-A91	2441553.50	1972 Aug 24	Sprint ABM	-	FLA-66	SAFEGUARD M2-42A	-	-	-	KMR	Meck	-	-	10?	-	-
1972-A105	2441601.50	1972 Oct 11	Sprint ABM	-	FLA-52	SAFEGUARD M2-14	-	-	-	KMR	Meck	-	-	1?	-	-
1972-A115	2441656.50	1972 Dec 5	Sprint ABM	-	FLA-58	SAFEGUARD M2-13	-	-	-	KMR	IL	-	-	10?	-	-
1972-A117	2441659.50	1972 Dec 8	Sprint ABM	-	FLA-76	Safeguard M2-21	-	-	-	KMR	Meck	-	-	10?	-	-
1973-A07	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-73	SAFEGUARD M2-41	-	-	-	KMR	Meck	-	-	10?	-	-
1973-A08	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-60	SAFEGUARD M2-41	-	-	-	KMR	Meck	-	-	10?	-	-
1973-A09	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-75	SAFEGUARD TRM-97	-	-	-	KMR	Meck	-	-	10?	-	-
1973-A25	2441840.50	1973 Jun 7	Sprint ABM	-	FLA-74	Safeguard M2-22	-	-	-	KMR	Meck	-	-	4	-	-
1973-A33	2441883.50	1973 Jul 20	Sprint ABM	-	FLA-54	Safeguard M2-18	-	-	-	KMR	IL	-	-	10?	-	-
1973-A59	2441960.50	1973 Oct 5	Sprint ABM	-	PAVT-1	Safeguard M2-27	-	-	-	KMR	IL?	-	-	10?	-	-
1973-A64	2441988.50	1973 Nov 2	Sprint ABM	-	PAVT-2	Safeguard M2-38	-	-	-	KMR	IL	-	-	10?	-	-
1973-A72	2442015.50	1973 Nov 29	Sprint ABM	-	FLA-65	Safeguard M2-25	-	-	-	KMR	IL	-	-	10?	-	-
1974-A08	2442092.50	1974 Feb 14	Sprint ABM	-	FLA-79 Block V wh	Safeguard M2-48	-	-	-	KMR	Meck	-	-	10?	-	-
1974-A17	2442153.50	1974 Apr 16	Sprint ABM	-	FLA-81	SAFEGUARD M2-148	-	-	-	KMR	Meck	-	-	10?	-	-
1974-A31	2442261.50	1974 Aug 2	Sprint ABM	-	PAVT-3	SAFEGUARD M2-248	-	-	-	KMR	Meck	-	-	10?	-	-
1974-A41	2442322.50	1974 Oct 2	Sprint ABM	-	PAVT-4	SAFEGUARD M2-348	-	-	-	KMR	Meck	-	-	4?	-	-
1974-A45	2442337.50	1974 Oct 17	Sprint ABM	-	PAVT-5	SAFEGUARD M2-448	-	-	-	KMR	Meck	-	-	25?	-	-
1975-A25	2442532.50	1975 Apr 30	Sprint ABM	-	PAVT-6	SAFEGUARD M2-548	-	-	-	KMR	Meck	-	-	4?	-	-
1990-A01	2447918.19	1990 Jan 26 1638	HEDI	-	-	KITE-1	-	-	-	WS	LC37	-	-	10	-	-
1991-A05	2448523.15	1991 Sep 23 1540	HEDI	-	-	KITE-2	-	-	-	WS	LC37	-	-	0	-	-
1992-A12	2448861.10	1992 Aug 26 1431	HEDI	-	-	KITE-2A	-	-	-	WS	LC37	-	-	12	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-A176	2438845.50	1965 Mar 26	Sprint ABM	-	PTV-1	0.000	NIKEX	MS	-	-	Test	ChronBMD	Ulrich	-
1965-A221	2438920.50	1965 Jun 9	Sprint ABM	-	PTV-2	0.000	NIKEX	MF	U	-	Test	Ulrich	-	-
1965-A160	2439081.50	1965 Nov 17	Sprint ABM	-	FLA-1	0.000	NIKEX	MS	-	-	Test	Safeguard	-	-
1966-A22	2439150.50	1966 Jan 25	Sprint ABM	-	FLA-2	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1966-A62	2439248.50	1966 May 3	Sprint ABM	-	FLA-4	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1966-A90	2439339.50	1966 Aug 2	Sprint ABM	-	FLA-5	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1966-A134	2439432.50	1966 Nov 3	Sprint ABM	-	FLA-6	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1967-A68	2439598.50	1967 Apr 18	Sprint ABM	-	FLA-9	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1967-A84	2439633.50	1967 May 23	Sprint ABM	-	FLA-10	0.000	NIKEX	MF	U	-	Test	Safeguard	-	-
1967-A97	2439689.50	1967 Jul 18	Sprint ABM	-	FLA-8	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1967-A103	2439710.50	1967 Aug 8	Sprint ABM	-	FLA-11	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1967-A119	2439752.50	1967 Sep 19	Sprint ABM	-	FLA-12	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1967-A127	2439773.50	1967 Oct 10	Sprint ABM	-	FLA-7	0.000	SENSC	MS	-	-	Test	Brookings-WWW	Safeguard	-
1967-A133	2439794.50	1967 Oct 31	Sprint ABM	-	FLA-14	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1967-A135	2439814.50	1967 Nov 20	Sprint ABM	-	FLA-15	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1967-A143	2439835.50	1967 Dec 11	Sprint ABM	-	FLA-13	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A57	2439891.50	1968 Feb 5	Sprint ABM	-	FLA-16	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1968-A63	2439912.50	1968 Feb 26	Sprint ABM	-	FLA-17	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A68	2439940.50	1968 Mar 25	Sprint ABM	-	FLA-18	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1968-A73	2439968.50	1968 Apr 22	Sprint ABM	-	FLA-19	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1968-A83	2440034.50	1968 Jun 27	Sprint ABM	-	FLA-20	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A88	2440066.50	1968 Jul 29	Sprint ABM	-	FLA-21	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A91	2440090.50	1968 Aug 22	Sprint ABM	-	FLA-22	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A93	2440108.50	1968 Sep 9	Sprint ABM	-	FLA-23	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A106	2440137.50	1968 Oct 8	Sprint ABM	-	FLA-24	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A108	2440157.50	1968 Oct 28	Sprint ABM	-	FLA-25	0.000	SENSC	MS	-	-	Test	Safeguard	-	-
1968-A114	2440192.50	1968 Dec 2	Sprint ABM	-	FLA-26	0.000	SENSC	MF	U	-	Test	Safeguard	-	-
1969-A42	2440262.50	1969 Feb 10	Sprint ABM	-	FLA-27	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A52	2440297.50	1969 Mar 17	Sprint ABM	-	FLA-30	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1969-A64	2440332.50	1969 Apr 21	Sprint ABM	-	FLA-28	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A90	2440367.50	1969 May 26	Sprint ABM	-	FLA-31	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A105	2440395.50	1969 Jun 23	Sprint ABM	-	FLA-29	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A130	2440424.50	1969 Jul 22	Sprint ABM	-	FLA-32	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A152	2440479.50	1969 Sep 15	Sprint ABM	-	FLA-35	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A171	2440500.50	1969 Oct 6	Sprint ABM	-	FLA-36	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1969-A180	2440517.50	1969 Oct 23	Sprint ABM	-	FLA-38	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1969-A187	2440531.50	1969 Nov 6	Sprint ABM	-	FLA-33	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1969-A198	2440556.50	1969 Dec 1	Sprint ABM	-	FLA-34	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1970-A34	2440664.50	1970 Mar 19	Sprint ABM	-	FLA-39	0.000	SAFSC	MF	U	-	Test	Safeguard	-	-
1970-A67	2440734.50	1970 May 28	Sprint ABM	-	FLA-40	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1970-A70	2440745.50	1970 Jun 8	Sprint ABM	-	FLA-44	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1970-A78	2440766.50	1970 Jun 29	Sprint ABM	-	FLA-43	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1970-A92	2440810.50	1970 Aug 12	Sprint ABM	-	FLA-45	0.000	SAFSC	MS	-	-	Test	Safeguard	-	-
1970-A114	2440887.50	1970 Oct 28	Sprint ABM	-	-	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1970-A125	2440924.50	1970 Dec 4	Sprint ABM	-	-	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1970-A140	2440943.50	1970 Dec 23	Sprint ABM	-	FLA-49	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A23	2441005.50	1971 Feb 23	Sprint ABM	-	FLA-46	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A31	2441027.50	1971 Mar 17	Sprint ABM	-	FLA-50	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A32	2441027.50	1971 Mar 17	Sprint ABM	-	FLA-51	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A51	2441078.50	1971 May 7	Sprint ABM	-	FLA-42	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A85	2441231.50	1971 Oct 7	Sprint ABM	-	FLA-48	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A94	2441265.50	1971 Nov 10	Sprint ABM	-	FLA-57	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1971-A95	2441267.50	1971 Nov 12	Sprint ABM	-	FLA-56	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A04	2441322.50	1972 Jan 6	Sprint ABM	-	FLA-61 Sim targ	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A23	2441392.50	1972 Mar 16	Sprint ABM	-	FLA-63	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A45	2441442.50	1972 May 5	Sprint ABM	-	FLA-64	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A59	2441461.50	1972 May 24	Sprint ABM	-	FLA-59	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A76	2441513.50	1972 Jul 15	Sprint ABM	-	FLA-53	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A89	2441546.50	1972 Aug 17	Sprint ABM	-	FLA-70	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1972-A91	2441553.50	1972 Aug 24	Sprint ABM	-	FLA-66	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A105	2441601.50	1972 Oct 11	Sprint ABM	-	FLA-52	0.000	SAFSC	MF	U	-	Interceptor	Safeguard	-	-
1972-A115	2441656.50	1972 Dec 5	Sprint ABM	-	FLA-58	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1972-A117	2441659.50	1972 Dec 8	Sprint ABM	-	FLA-76	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A07	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-73	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A08	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-60	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A09	2441735.50	1973 Feb 22	Sprint ABM	-	FLA-75	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A25	2441840.50	1973 Jun 7	Sprint ABM	-	FLA-74	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A33	2441883.50	1973 Jul 20	Sprint ABM	-	FLA-54	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A59	2441960.50	1973 Oct 5	Sprint ABM	-	PAVT-1	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A64	2441988.50	1973 Nov 2	Sprint ABM	-	PAVT-2	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1973-A72	2442015.50	1973 Nov 29	Sprint ABM	-	FLA-65	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1974-A08	2442092.50	1974 Feb 14	Sprint ABM	-	FLA-79 Block V wh	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1974-A17	2442153.50	1974 Apr 16	Sprint ABM	-	FLA-81	0.000	SAFSC	MS	-	-	Interceptor	Safeguard	-	-
1974-A31	2442261.50	1974 Aug 2	Sprint ABM	-	PAVT-3	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1974-A41	2442322.50	1974 Oct 2	Sprint ABM	-	PAVT-4	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1974-A45	2442337.50	1974 Oct 17	Sprint ABM	-	PAVT-5	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1975-A25	2442532.50	1975 Apr 30	Sprint ABM	-	PAVT-6	0.000	ABMDO	MS	-	-	Interceptor	Safeguard	-	-
1990-A01	2447918.19	1990 Jan 26 1638	HEDI	-	-	0.000	SDIO	MS	-	-	Test	Wire	AWST900205-33	-
1991-A05	2448523.15	1991 Sep 23 1540	HEDI	-	-	0.000	SDIO	MF	U	-	Test	SN910930-20	AWST910930-17	-
1992-A12	2448861.10	1992 Aug 26 1431	HEDI	-	-	0.000	SDIO	MS	-	-	Test	AWST920907-42	-	-

							Launch									
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A242	2438339.50	1963 Nov 6	Squirt	-	1	Squirt MTV-1	-	-	-	WS	LC37	-	-	3?	-	-
1964-A189	2438471.50	1964 Mar 17	Squirt	-	2	Squirt MTV-2	-	-	-	WS	LC37	-	-	3?	-	-
1964-A190	2438590.50	1964 Jul 14	Squirt	-	3	Squirt MTV-3	-	-	-	WS	LC37	-	-	3?	-	-
1964-A188	2438661.50	1964 Sep 23	Squirt	-	4	Squirt MTV-4	-	-	-	WS	LC37	-	-	3?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A242	2438339.50	1963 Nov 6	Squirt	-	1	0.000	NIKEZ	MS	-	-	Test	wsmr-history.org	-	-
1964-A189	2438471.50	1964 Mar 17	Squirt	-	2	0.000	NIKEX	MS	-	-	Test	CDBMD	Safeguard	-
1964-A190	2438590.50	1964 Jul 14	Squirt	-	3	0.000	NIKEX	MS	-	-	Test	Wire/Ulrich	wsmr-history.org	-
1964-A188	2438661.50	1964 Sep 23	Squirt	-	4	0.000	NIKEX	MS	-	-	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-A11	2454217.40	2007 Apr 26 2132	SM-2MR	?	Aegis FTM-11 (2-3A)	-	-	-	CG-70	KAU	POA	-	-	10?	-	-
2014-A37	2456968.42	2014 Nov 6 2206?	SM-2MR	?	Aegis FTM-25	2-3A	-	-	DDG-53	KAU	POA	-	-	10?	-	-
2014-A38	2456968.42	2014 Nov 6 2206?	SM-2MR	?	Aegis FTM-25	2-3A	-	-	DDG-53	KAU	POA	-	-	10?	-	-
2018-A43	2458214.50	2018 Apr 6	Lynx	-	FTX-35 Target	-	-	-	-	WS	-	-	-	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-A11	2454217.40	2007 Apr 26 2132	SM-2MR	?	Aegis FTM-11 (2-3A)	0.000	MDA	MS	-	-	Test	www.mda.mil	-	-
2014-A37	2456968.42	2014 Nov 6 2206?	SM-2MR	?	Aegis FTM-25	0.000	MDA	AS	-	-	Interceptor	mda.mil	-	-
2014-A38	2456968.42	2014 Nov 6 2206?	SM-2MR	?	Aegis FTM-25	0.000	MDA	AS	-	-	Interceptor	mda.mil	-	-
2018-A43	2458214.50	2018 Apr 6	Lynx	-	FTX-35 Target	0.000	MDA	AS	-	-	Target	mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2014-A10	2456837.38	2014 Jun 28 2105:00	LDSD	-	LDSD SFDT-1	SIAD-R/SSDS	-	-	BLN-LDSD	KAU	BLP	KAU	LP2	54	-	-
2015-A06	2457182.40	2015 Jun 8 2135:00	LDSD	-	LDSD SFDT-2	SIAD-R/SSRS	-	-	BLN-LDSD	KAU	BLP	KAU	LP2	54	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2014-A10	2456837.38	2014 Jun 28 2105:00	LDSD	-	LDSD SFDT-1	0.000	JPL	AS	-	-	Test	Wire	-	-
2015-A06	2457182.40	2015 Jun 8 2135:00	LDSD	-	LDSD SFDT-2	0.000	JPL	AS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2020-A16	2459066.50	2020 Aug 4 2357	Starship V1.0 Ship	-	SN5 F1	150m hop	-	-	-	BCB	LP1A	-	-	0	-	-
2020-A19	2459096.24	2020 Sep 3 1747	Starship V1.0 Ship	-	SN6 F1	150m hop	-	-	-	BCB	LP1A	-	-	0	-	-
2020-A21	2459193.45	2020 Dec 9 2245	Starship V1.0 Ship	-	SN8 F1	15 km attempt	-	-	-	BCB	LP1A	-	-	12	-	-
2021-A01	2459248.35	2021 Feb 2 2025	Starship V1.0 Ship	-	SN9 F1	10 km attempt	-	-	-	BCB	LP1A	-	-	10?	-	-
2021-A02	2459277.47	2021 Mar 3 2314	Starship V1.0 Ship	-	SN10 F1	10 km attempt	-	-	-	BCB	LP1B	-	-	10?	-	-
2021-A03	2459277.48	2021 Mar 3 2328	Starship V1.0 Ship	-	SN10 F1 RUD	Accidental flight	-	-	-	BCB	-	-	-	0	-	-
2021-A04	2459304.04	2021 Mar 30 1300	Starship V1.0 Ship	-	SN11 F1	10 km attempt	-	-	-	BCB	LP1B	-	-	10	-	-
2021-A07	2459340.43	2021 May 5 2224	Starship V1.0 Ship	-	SN15 F1	10 km attempt	-	-	-	BCB	LP1A	-	-	10	-	-
2023-F05	2460055.06	2023 Apr 20 1333:09	Starship V1.0	-	B07/S24	Starship Flight 1	Ship 24	-	-	STB	OLP1	-	-	39	-	-
2023-F11	2460267.04	2023 Nov 18 1302:53?	Starship V1.0	-	B09/S25	Starship Flight 2	Ship 25	-	-	STB	OLP1	-	-	148	-	-
2024-U01	2460384.06	2024 Mar 14 1325:00	Starship V1.0	-	B10/S28	Starship Flight 3	Ship 28	-	-	STB	OLP1	-	-	234	-	-
2024-U03	2460468.03	2024 Jun 6 1250:00	Starship V1.0	-	B11/S29	Starship Flight 4	Ship 29	-	-	STB	OLP1	-	-	214	-	-
2024-U04	2460597.02	2024 Oct 13 1225:00	Starship V1.0	-	B12/S30	Starship Flight 5	Ship 30	-	-	STB	OLP1	-	-	213	-	-
2024-U06	2460634.42	2024 Nov 19 2200:00	Starship V1.0	-	B13/S31	Starship Flight 6	Ship 31	-	-	STB	OLP1	-	-	190	-	-
2025-F01	2460692.44	2025 Jan 16 2237	Starship V2	R2	B14/S33	Starship Flight 7	Ship 33	-	-	STB	OLP1	-	-	146	-	-
2025-F03	2460741.48	2025 Mar 6 2330:31?	Starship V2	R2	B15/S34	Starship Flight 8	Ship 34	-	-	STB	OLP1	-	-	146	-	-
2025-U02	2460823.48	2025 May 27 2336:29?	Starship V2	R2	B14.2/S35	Starship Flight 9	Ship 35	-	-	STB	OLP1	-	-	189	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2020-A16	2459066.50	2020 Aug 4 2357	Starship V1.0 Ship	-	SN5 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2020-A19	2459096.24	2020 Sep 3 1747	Starship V1.0 Ship	-	SN6 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2020-A21	2459193.45	2020 Dec 9 2245	Starship V1.0 Ship	-	SN8 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2021-A01	2459248.35	2021 Feb 2 2025	Starship V1.0 Ship	-	SN9 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2021-A02	2459277.47	2021 Mar 3 2314	Starship V1.0 Ship	-	SN10 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2021-A03	2459277.48	2021 Mar 3 2328	Starship V1.0 Ship	-	SN10 F1 RUD	0.000	SPX	AF	U	SPX/	Explosion	nasaspaceflight.com	-	-
2021-A04	2459304.04	2021 Mar 30 1300	Starship V1.0 Ship	-	SN11 F1	0.000	SPX	AF	U	SPX/	Test	nasaspaceflight.com	-	-
2021-A07	2459340.43	2021 May 5 2224	Starship V1.0 Ship	-	SN15 F1	0.000	SPX	AS	-	SPX/	Test	nasaspaceflight.com	-	-
2023-F05	2460055.06	2023 Apr 20 1333:09	Starship V1.0	-	B07/S24	120.000	SPX	OF	S1S	C	Sat LEO S	nasaspaceflight.com	-	St 1 sep failed, engines out
2023-F11	2460267.04	2023 Nov 18 1302:53?	Starship V1.0	-	B09/S25	120.000	SPX	OF	S2U	C	Sat LEO S	nasaspaceflight.com	-	St 2 underburn,destruct
2024-U01	2460384.06	2024 Mar 14 1325:00	Starship V1.0	-	B10/S28	120.000	SPX	OS	-	C	Sat LEO S	nasaspaceflight.com	-	-
2024-U03	2460468.03	2024 Jun 6 1250:00	Starship V1.0	-	B11/S29	120.000	SPX	OS	-	C	Sat LEO S	nasaspaceflight.com	-	-
2024-U04	2460597.02	2024 Oct 13 1225:00	Starship V1.0	-	B12/S30	120.000	SPX	OS	-	C	Sat LEO S	nasaspaceflight.com	-	-
2024-U06	2460634.42	2024 Nov 19 2200:00	Starship V1.0	-	B13/S31	120.000	SPX	OS	-	C	Sat LEO S	nasaspaceflight.com	-	-
2025-F01	2460692.44	2025 Jan 16 2237	Starship V2	R2	B14/S33	120.000	SPX	OF	S2P	C	Sat LEO S	nasaspaceflight.com	-	Engines out
2025-F03	2460741.48	2025 Mar 6 2330:31?	Starship V2	R2	B15/S34	120.000	SPX	OF	S2P	C	Sat LEO S	nasaspaceflight.com	-	Engines out
2025-U02	2460823.48	2025 May 27 2336:29?	Starship V2	R2	B14.2/S35	120.000	SPX	OS	-	C	Sat LEO S	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1969-A165	2440495.50	1969 Oct 1	Falstaff	1	F.00	HRV 933	-	-	-	WOO	LA2 HRV	-	-	30	-	-
1975-S149	2442541.50	1975 May 9	Falstaff	-	F.0	-	-	-	-	WOO	LA2 HRV	-	-	119	-	-
1976-S106	2442828.50	1976 Feb 20	Falstaff	-	F.01	-	-	-	-	WOO	LA2 HRV	-	-	117	-	-
1978-A22	2443651.50	1978 May 23	Falstaff	-	F.1	CHEVALINE F1	-	-	-	WOO	LA2 HRV	-	-	2?	-	-
1978-S209	2443766.50	1978 Sep 15	Falstaff	-	F.2	CHEVALINE F2	-	-	-	WOO	LA2 HRV	-	-	97	-	-
1978-S250	2443848.50	1978 Dec 6	Falstaff	-	F.3	CHEVALINE F3	-	-	-	WOO	LA2 HRV	-	-	98	-	-
1979-S59	2443918.50	1979 Feb 14	Falstaff	-	F.4	CHEVALINE F4	-	-	-	WOO	LA2 HRV	-	-	93	-	-
1979-S113	2443967.50	1979 Apr 4	Falstaff	-	F.5	CHEVALINE F5	-	-	-	WOO	LA2 HRV	-	-	103	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1969-A165	2440495.50	1969 Oct 1	Falstaff	1	F.00	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	-	-
1975-S149	2442541.50	1975 May 9	Falstaff	-	F.0	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	Pitfield19	-
1976-S106	2442828.50	1976 Feb 20	Falstaff	-	F.01	0.000	RAE	SS	-	RAE/	Test	SPC-KH-211-5	IAC-04.IAA.6.15.3.07	-
1978-A22	2443651.50	1978 May 23	Falstaff	-	F.1	0.000	RAE	SF	S1	RAE/	Test	BAE	Pitfield19	-
1978-S209	2443766.50	1978 Sep 15	Falstaff	-	F.2	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	Pitfield19	-
1978-S250	2443848.50	1978 Dec 6	Falstaff	-	F.3	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	Pitfield19	-
1979-S59	2443918.50	1979 Feb 14	Falstaff	-	F.4	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	Pitfield19	-
1979-S113	2443967.50	1979 Apr 4	Falstaff	-	F.5	0.000	RAE	SS	-	RAE/	Test	IAC-04.IAA.6.15.3.07	Pitfield19	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-A18	2457312.11	2015 Oct 16 1433	Stratos II+	-	1	-	-	-	-	ELAR	-	-	-	21	-	-
2018-A251	2458325.50	2018 Jul 26	Stratos III	-	1	-	-	-	-	ELAR	-	-	-	10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-A18	2457312.11	2015 Oct 16 1433	Stratos II+	-	1	0.000	DARE	AS	-	DARE/	Test	dare.tudelft.nl	-	-
2018-A251	2458325.50	2018 Jul 26	Stratos III	-	1	0.000	DARE	AF	U	DARE/	Test	dare.tudelft.nl	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-A712	2434841.50	1954 Apr 9	SE4400	-	F02	-	-	-	-	HMG	-	-	-	0?	-	-
1955-A502	2435385.50	1955 Oct 5	SE4400	-	F41	-	-	-	-	HMG	-	-	-	20?	-	-
1955-A503	2435388.50	1955 Oct 8	SE4400	-	F40	SEPR 505 booster	-	-	-	HMG	-	-	-	20?	-	-
1957-A43	2435985.50	1957 May 27	SE4400	-	F77	SEPR 732 booster	-	-	-	HMG	-	-	-	20?	-	-
1957-A49	2435997.50	1957 Jun 8	SE4400	-	F78	-	-	-	-	HMG	-	-	-	20?	-	-
1957-A139	2436186.50	1957 Dec 14	SE4400	-	F79	-	-	-	-	HMG	-	-	-	20?	-	-
1957-A140	2436188.50	1957 Dec 16	SE4400	-	F80	-	-	-	-	HMG	-	-	-	20?	-	-
1957-A142	2436189.50	1957 Dec 17	SE4400	-	F81	-	-	-	-	HMG	-	-	-	20?	-	-
1957-A143	2436191.50	1957 Dec 19	SE4400	-	F84	-	-	-	-	HMG	-	-	-	20?	-	-
1958-A24	2436293.50	1958 Mar 31	SE4400	-	F75	-	-	-	-	HMG	-	-	-	20?	-	-
1958-A25	2436293.50	1958 Mar 31	SE4400	-	F85	-	-	-	-	HMG	-	-	-	20?	-	-
1958-A26	2436294.50	1958 Apr 1	SE4400	-	F83	-	-	-	-	HMG	-	-	-	20?	-	-
1959-A11	2436578.50	1959 Jan 10	SE4400	-	F86	-	-	-	-	HMG	-	-	-	20?	-	-
1959-A12	2436581.50	1959 Jan 13	SE4400	-	F87	-	-	-	-	HMG	-	-	-	40	-	-
1959-S59	2436690.50	1959 May 2	OPd-56-39-22D	-	001	-	-	-	-	CERES	-	-	-	150?	-	-
1959-A91	2436720.50	1959 Jun 1	SE4400	-	F88	-	-	-	-	HMG	-	-	-	40?	-	-
1959-A92	2436724.50	1959 Jun 5	SE4400	-	F76	-	-	-	-	HMG	-	-	-	40?	-	-
1959-S218	2436863.50	1959 Oct 22	OPd-56-39-22D	-	002	-	-	-	-	CERES	-	-	-	150?	-	-
1959-S269	2436917.50	1959 Dec 15	OPd-56-39-22D	-	003	-	-	-	-	CERES	-	-	-	150?	-	-
1960-A112	2437056.50	1960 May 2	SE4400	-	F89	-	-	-	-	HMG	-	-	-	20?	-	-
1960-S92	2437056.50	1960 May 2	OPd-56-39-22D	-	004	-	-	-	-	CERES	-	-	-	150?	-	-
1960-A114	2437059.50	1960 May 5	SE4400	-	F90	-	-	-	-	HMG	-	-	-	20?	-	-
1960-S94	2437059.50	1960 May 5	OPd-56-39-22D	-	005	(or May 19?)	-	-	-	CERES	-	-	-	150	-	-
1960-S286	2437203.50	1960 Sep 26	OPd-56-39-22D	-	006	-	-	-	-	CERES	-	-	-	150?	-	-
1960-S305	2437207.50	1960 Sep 30	OPd-56-39-22D	-	007	-	-	-	-	CERES	-	-	-	150?	-	-
1960-A371	2437238.50	1960 Nov	Stataltex	-	STX-01	-	-	-	-	CERES	-	-	-	13	-	-
1960-A372	2437238.50	1960 Nov	Stataltex	-	STX-02	-	-	-	-	CERES	-	-	-	19	-	-
1960-S381	2437263.50	1960 Nov 25	Antares	-	008	-	-	-	-	CERES	-	-	-	150?	-	-
1960-S387	2437268.50	1960 Nov 30	Antares	-	009	-	-	-	-	CERES	-	-	-	150?	-	-
1960-A304	2437285.50	1960 Dec 17	VE10 Aigle	-	-	-	-	-	-	HMG	Bacchus	-	-	20	-	-
1960-A305	2437287.50	1960 Dec 19	VE10 Aigle	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A08	2437299.50	1961	Vega Statoreacteur	-	-	Ramjet	-	-	-	HMG	-	-	-	25	-	-
1961-S67	2437361.50	1961 Mar 3	Antares	-	010	-	-	-	-	CERES	-	-	-	150?	-	-
1961-S71	2437364.50	1961 Mar 6	Antares	-	011	-	-	-	-	CERES	-	-	-	150?	-	-
1961-S73	2437365.50	1961 Mar 7	Antares	-	012	-	-	-	-	CERES	-	-	-	150?	-	-
1961-M04	2437365.50	1961 Mar 7	SE4400	-	F91	-	-	-	-	HMG	-	-	-	65	-	-
1961-M05	2437368.50	1961 Mar 10	SE4400	-	F92	-	-	-	-	HMG	-	-	-	67	-	-
1961-A76	2437374.50	1961 Mar 16	VE10 Aigle	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A78	2437379.50	1961 Mar 21	VE10 Aigle	-	-	-	-	-	-	HMG	Bacchus	-	-	20?	-	-
1961-A376	2437419.50	1961 May	Stataltex	-	STX-03	-	-	-	-	HMG	Bacchus	-	-	6	-	-
1961-A377	2437419.50	1961 May	Stataltex	-	STX-04	-	-	-	-	HMG	Bacchus	-	-	8	-	-
1961-S142	2437432.50	1961 May 13	Antares	-	013	-	-	-	-	HMG	Bacchus?	-	-	280?	-	-
1961-A378	2437642.50	1961 Dec 9	Stataltex	-	STX-06	-	-	-	-	CERES	-	-	-	30	-	-
1961-A379	2437646.50	1961 Dec 13	Stataltex	-	STX-05	-	-	-	-	CERES	-	-	-	40	-	-
1962-S203	2437842.50	1962 Jun 27	Berenice	-	001	-	-	-	-	CERES	-	-	-	270?	-	-
1962-S226	2437851.50	1962 Jul 6	Berenice	-	002	-	-	-	-	CERES	-	-	-	270?	-	-
1962-A263	2437854.50	1962 Jul 9	Stataltex	-	STX-07	-	-	-	-	CERES	-	-	-	11	-	-
1962-A264	2437854.50	1962 Jul 9	Stataltex	-	STX-08	-	-	-	-	CERES	-	-	-	14	-	-
1962-S215	2437845.50	1962 Q3	Berenice	-	003	-	-	-	-	CERES	-	-	-	270?	-	-
1962-S450	2437968.50	1962 Nov	Berenice	-	004	-	-	-	-	CERES	-	-	-	270?	-	-
1962-S530	2438003.50	1962 Dec 5	Dragon	-	D-03	-	-	-	-	HMG	Bacchus	-	-	80	-	-
1963-A31	2438093.50	1963 Mar 5	VE10A Aigle	-	-	-	-	-	-	HMG	Brigitte	-	-	20?	-	-
1963-M55	2438145.50	1963 Apr 26	Dragon	-	D-04	-	-	-	-	HMG	Bacchus	-	-	58	-	-
1963-S303	2438207.50	1963 Jun 27	Berenice	-	005	-	-	-	-	CERES	-	-	-	270?	-	-
1963-S326	2438213.50	1963 Jul 3	Berenice	-	006	-	-	-	-	CERES	-	-	-	270?	-	-
1963-A239	2438310.50	1963 Oct 8	Stataltex	-	STX-09	-	-	-	-	CERES	-	-	-	12	-	-
1963-S524	2438332.50	1963 Oct 30	Dragon	-	D-05	-	-	-	-	HMG	Bacchus	-	-	470	-	-
1964-S14	2438394.50	1964	Berenice	-	007	-	-	-	-	CERES	-	-	-	270?	-	-
1964-S15	2438394.50	1964	Berenice	-	008	-	-	-	-	CERES	-	-	-	270?	-	-
1964-S83	2438435.50	1964 Feb 10	Dragon	-	D-07	-	-	-	-	HMG	Bacchus	-	-	470	-	-
1964-S199	2438496.50	1964 Apr 11	Dragon	-	D-09	FU-104B Probe/Na	-	-	-	HMG	Bacchus	-	-	400	-	-
1964-S203	2438498.50	1964 Apr 13	Dragon	-	D-06	FU-104B Probe/Na	-	-	-	HMG	Bacchus	-	-	425	-	-
1964-A217	2438508.50	1964 Apr 23	Stataltex	-	STX-10	-	-	-	-	CERES	-	-	-	5?	-	-
1964-S398	2438608.55	1964 Aug 1 0113	Dragon	-	D-10	FU-125 Ions/Part.	-	-	-	VIK	-	-	-	440	-	-
1964-S409	2438614.50	1964 Aug 7 0004	Dragon	-	D-11	FU-125 Ions/Part.	-	-	-	VIK	-	-	-	420	-	-
1964-S497	2438668.50	1964 Oct	Berenice	-	009	-	-	-	-	CERES	-	-	-	250	-	-
1964-S498	2438668.50	1964 Oct	Berenice	-	010	-	-	-	-	CERES	-	-	-	250	-	-
1964-A168	2438701.50	1964 Nov 2	VE10A Aigle	-	-	-	-	-	-	HMG	Brigitte	-	-	20?	-	-
1964-S667	2438733.24	1964 Dec 3 1740	Dragon	-	D-16	FU-103B MPE Ba-11	-	-	-	HMG	Bacchus	-	-	390	-	-
1965-S17	2438760.50	1965	Berenice	-	011	-	-	-	-	CERES	-	-	-	270?	-	-
1965-S359	2438926.50	1965 Jun 15 0000?	Tacite	-	TACITE 01	IR Horizon Study	-	-	-	CEL	-	-	-	182	-	-
1965-S474	2438996.50	1965 Aug 24	Dragon	-	D-17	FU-146/VLF	-	-	-	VIK	-	-	-	440	-	-
1965-S487	2439006.50	1965 Sep 3	Dragon	-	D-18	FU-146/VLF	-	-	-	VIK	-	-	-	451	-	-
1965-S636	2439085.25	1965 Nov 20 1753	Dragon	-	D-08	MPE Ba-16?	-	-	-	HMG	Bechar	-	-	404	-	-
1966-S16	2439125.50	1966	Berenice	-	012	Titus Test	-	-	-	CERES	-	-	-	270?	-	-
1966-S73	2439146.84	1966 Jan 21 0814	Dragon	-	D-21	FU-133 Na release	-	-	-	HMG	Bacchus	-	-	500	-	-
1966-S254	2439249.58	1966 May 4 0200	Dragon	-	D-12	FU-130 Ly alpha	-	-	-	HMG	Bacchus	-	-	440?	-	-
1966-S261	2439258.25	1966 May 12 1800	Dragon	-	D-13	FU-130 Ly alpha	-	-	-	HMG	Bacchus	-	-	464	-	-
1966-S275	2439268.73	1966 May 23 0526	Dragon	-	D-14	FU-131 Atomic H	-	-	-	HMG	Bacchus	-	-	460	-	-
1966-S282	2439272.30	1966 May 26 1905:12	Dragon	-	D-20	FU-151 Ions/part.	-	-	-	AND	-	-	-	230	-	-
1966-S296	2439277.51	1966 Jun 1 0012:18	Dragon	-	D-23	FU-153 Ions/part.	-	-	-	AND	-	-	-	380	-	-
1966-S316	2439291.10	1966 Jun 14 1427	Dragon	-	D-15	FU-131 Atomic H	-	-	-	HMG	Bacchus	-	-	480	-	-
1966-S318	2439292.33	1966 Jun 15 1951	Dragon	-	D-22	FU-131 Na release	-	-	-	HMG	Bacchus	-	-	500	-	-
1966-M24	2439292.51	1966 Jun 16 0014:36	Dragon	-	D-19	FU-151 Ions/part.	-	-	-	AND	-	-	-	60	-	-
1966-S545	2439416.45	1966 Oct 17 2251:24	Dragon	-	D-28	FU-165 Ions/E Field	-	-	-	AND	-	-	-	387	-	-
1966-S600	2439442.07	1966 Nov 12 1340:27	Titus	-	001	FU-150 Alpha	-	-	-	CHAC	-	-	-	274	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-S603	2439442.07	1966 Nov 12 1340:57	Titus	-	002	FU-150 Bravo	-	-	-	CHAC	-	-	-	270	-	-
1967-S83	2439516.47	1967 Jan 25 2316:00	Dragon	-	D-24	FU-145B Ions/part.	-	-	-	DDU	-	-	-	340	-	-
1967-S87	2439519.00	1967 Jan 28 1205:33	Dragon	-	D-25	FU-151 Ions/part.	-	-	-	DDU	-	-	-	310	-	-
1967-S88	2439519.56	1967 Jan 29 0121:25	Dragon	-	D-26	FU-151 Ions/part.	-	-	-	DDU	-	-	-	320	-	-
1967-S89	2439519.63	1967 Jan 29 0309:20	Dragon	-	D-27	FU-151 Ions/part.	-	-	-	DDU	-	-	-	340	-	-
1967-A147	2439569.50	1967 Mar 20	Dauphin	-	DA001	FU-163	-	-	-	HMG	-	-	-	1?	-	-
1967-S249	2439616.12	1967 May 5 1449	Dragon	-	D-33	Shahpar-1	-	-	-	SOM	-	-	-	423	-	-
1967-S324	2439669.50	1967 Jun 28	Dauphin	-	DA002	FU-179	-	-	-	CERES	-	-	-	138	-	-
1967-S472	2439768.05	1967 Oct 4 1312:30	Dragon	-	D-35	ESRO D34/1	-	-	-	AND	-	-	-	248	-	-
1967-S477	2439770.94	1967 Oct 7 1032:00	Dragon	-	D-30	ESRO D30/1	-	-	-	AND	-	-	-	233	-	-
1967-A128	2439774.08	1967 Oct 10 1401:00	Dragon	-	D-36	ESRO D34/2	-	-	-	AND	-	-	-	1	-	-
1967-A138	2439817.50	1967 Nov 23	Tacite	-	002	FU-169	-	-	-	CERES	-	-	-	0?	-	-
1968-S131	2439900.50	1968 Feb 14	Dragon	-	D-32	FU-172 Solar He	-	-	-	CEL	-	-	-	440?	-	-
1968-S171	2439923.50	1968 Mar 8	Dauphin	-	DA003	FU-168 A-cone	-	-	-	CEL	-	-	-	123	-	-
1968-S176	2439930.65	1968 Mar 15 0343	Dragon 2B	-	D-251A	FU-171 VLF/Ions	-	-	-	KER	-	-	-	400?	-	-
1968-S216	2439943.83	1968 Mar 28 0755	Dragon 2B	-	D-252	FU-171 VLF/Ions	-	-	-	KER	-	-	-	400?	-	-
1968-S222	2439944.10	1968 Mar 28 1430	Dauphin	-	DA004	FU-168 B-cone	-	-	-	CEL	-	-	-	98	-	-
1968-S229	2439945.10	1968 Mar 29 1420	Dragon	-	D-34	Shahpar-2	-	-	-	SOM	-	-	-	420	-	-
1968-S249	2439947.64	1968 Apr 1 0326	Dragon 2B	-	D-253	FU-171 VLF/Ions	-	-	-	KER	-	-	-	416	-	-
1968-S319	2439991.53	1968 May 15 0038	Tacite	-	TACITE 02	Earth IR	-	-	-	CERES	-	-	-	175	-	-
1968-S339	2439999.19	1968 May 22 1628:44	Dragon	-	D-31	ESRO D30/2	-	-	-	SDQ	-	-	-	225	-	-
1968-S404	2440060.85	1968 Jul 23 0824	Dragon 3	-	D-301	FU-188 Tech	-	-	-	CEL	-	-	-	562	-	-
1968-A117	2440125.50	1968 Sep 26	Eridan	-	E002	FU-181	-	-	-	CSG	ALFS	-	-	0	-	-
1968-S532	2440144.93	1968 Oct 15 1015	Tacite	-	004	Cassiopee Test	-	Sun-pointing test	-	CEM	-	-	-	140	-	-
1968-S565	2440163.57	1968 Nov 3 0142:24	Dragon 2B	-	D-254	FU-182 Ions/E field	-	-	-	AND	-	-	-	414	-	-
1969-S110	2440258.94	1969 Feb 6 1030	Dragon 2B	-	D-258	FU-180 Mass spec. F1	-	-	-	CEL	-	-	-	430	-	-
1969-S118	2440259.07	1969 Feb 6 1345	Dragon 2B	-	D-257	FU-180 Mass spec. F2	-	-	-	CEL	-	-	-	405	-	-
1969-S117	2440259.44	1969 Feb 6 2230	Dragon 2B	-	D-256	FU-180 Mass spec. F3	-	-	-	CEL	-	-	-	430	-	-
1969-S119	2440259.56	1969 Feb 7 0122	Dragon 2B	-	D-259	FU-180 Mass spec. F4	-	-	-	CEL	-	-	-	413	-	-
1969-S198	2440298.01	1969 Mar 17 1209	Dragon	-	D-29	FU-172 LPSP-EUV1	-	-	-	CSG	ALFS	-	-	410	-	-
1969-S261	2440323.50	1969 Apr 12	Eridan	-	E005	FU-181B test flight	-	-	-	CSG	ALFS	-	-	406	-	-
1969-S263	2440324.52	1969 Apr 13 0033:10	Dragon 2B	-	D-255	FU-182 Ions/E field	-	-	-	AND	-	-	-	399	-	-
1969-S278	2440329.41	1969 Apr 17 2148:04	Dragon 2B	-	D-260	FU-190 E field/Ba	-	-	-	AND	-	-	-	329	-	-
1969-S294	2440334.50	1969 Apr 23	Eridan	-	E003	FU-187 test, A cone	-	-	-	CSG	ALFS	-	-	420	-	-
1969-S300	2440337.50	1969 Apr 26	Dragon 3	-	D-302	FU-188 Tech	-	-	-	CSG	ALFS	-	-	410	-	-
1969-S344	2440368.50	1969 May 27	Dragon 3	-	D-303	FU-192 Plasma	-	-	-	CEL	-	-	-	100?	-	-
1969-S463	2440455.50	1969 Aug 22	Eridan	-	E004	FU-187 test, B cone	-	-	-	CSG	ALFS	-	-	242	-	-
1969-S511	2440485.33	1969 Sep 20 2000	Dragon	-	D-39	ISRO 26.01	TERLS-129	-	-	TERLS	-	-	-	400?	-	-
1969-S629	2440544.07	1969 Nov 18 1334	Dragon 3	-	D-304	FU-192 Plasma	-	-	-	CEL	-	-	-	475	-	-
1970-S344	2440713.43	1970 May 6 2226	Dragon	-	D-37	Electron density	-	-	-	CELAT	-	-	-	430	-	-
1970-S553	2440865.95	1970 Oct 6 1050	Dragon 3	-	D-305	EIDI-1	-	-	-	CEL	-	-	-	480	-	-
1970-S578	2440881.85	1970 Oct 22 0823	Dragon 3	-	D-306	EIDI-2	-	-	-	CEL	-	-	-	480	-	-
1971-S129	2441006.26	1971 Feb 23 1809	Tibere	-	-	ELECTRE	-	-	-	CEL	-	-	-	130	-	-
1971-S282	2441088.50	1971 May 17	Eridan	-	E006	FU-203 recovery test	-	-	-	CSG	ALFS	-	-	196	-	-
1971-S443	2441208.68	1971 Sep 14 0420	Dauphin	-	DA005	PHARE (FU-196)	-	-	-	CSG	ALFS	-	-	103	-	-
1971-S525	2441240.50	1971 Oct 16	Eridan	-	E007 (FU-202)	ATLAS/CM16/Gemini	-	-	-	CSG	ALFS	-	-	205	-	-
1972-S127	2441395.26	1972 Mar 18 1820	Tibere	-	-	ELECTRE	-	-	-	CEL	-	-	-	159	-	-
1972-S180	2441435.51	1972 Apr 28 0010	Dragon 2B	-	SUP	Pak Shahpar 1	-	-	-	SOM	-	-	-	400	-	-
1972-S474	2441632.50	1972 Nov 11	Eridan	-	E008	FU-201 LPSP-EUV2	Mg II/He Solaire	-	-	CSG	ALFS	-	-	300	-	-
1972-S16	2441658.50	1972 Dec 7	Eridan	-	E009	FU-205 JANUS	-	-	-	CSG	ALFS	-	-	213	-	-
1972-S433	2441664.72	1972 Dec 13 0518	Dragon	-	D-38	FU-206 Protons/elec	-	-	-	CELPA	-	-	-	380	-	-
1973-S573	2441709.50	1973 Jan 27	RH-560	-	RH-560-01	RH-560-01	-	-	-	SHAR	RH	-	-	100?	-	-
1973-S71	2441731.50	1973 Feb 17 2357	Dragon 3	-	D-308	FU-211 EIDI-3	-	-	-	CEL	-	-	-	460	-	-
1973-S574	2441942.50	1973 Sep 17	RH-560	-	RH-560-02	RH-560-02	-	-	-	SHAR	RH	-	-	100?	-	-
1974-S180	2442162.04	1974 Apr 24 1300	RH-560	-	RH-560-03	First test	-	-	-	SHAR	RH	-	-	280?	-	-
1974-S538	2442346.50	1974 Oct 26	RH-560	-	RH-560-04	RH-560-04	-	-	-	SHAR	RH	-	-	100?	-	-
1974-S65	2442357.52	1974 Nov 6 0023	Eridan	-	E011A?	FAUST FU-214	-	-	-	CSG	ALFS	-	-	220	-	-
1974-S381	2442370.59	1974 Nov 19 0210	Eridan	-	E011B?	FAUST FU-215	-	-	-	CSG	ALFS	-	-	220	-	-
1975-S48	2442438.61	1975 Jan 26 0237:00	Eridan	-	E012A	ARAKS Northward	-	-	-	KER	-	-	-	190	-	-
1975-S73	2442458.57	1975 Feb 15 0136	Eridan	-	E012B	ARAKS Eastward	-	-	-	KER	-	-	-	185	-	-
1975-S413	2442581.50	1975 Jun 18	RH-560	-	RH-560-05	RH-560-05	-	-	-	SHAR	RH	-	-	200?	-	-
1975-S416	2442758.50	1975 Dec 12	RH-560	-	RH-560-06	RH-560-06	-	-	-	SHAR	RH	-	-	200?	-	-
1976-S437	2442947.50	1976 Jun 18	RH-560	-	RH-560-07	RH-560-07	-	-	-	SHAR	RH	-	-	200?	-	-
1976-S438	2442952.50	1976 Jun 23	RH-560	-	RH-560-08	RH-560-08	-	-	-	SHAR	RH	-	-	200?	-	-
1976-A131	2443072.50	1976 Oct 21	RH-560/LPR-3T	-	RH-560	LPR-3T engine test	-	-	-	SHAR	RH	-	-	10?	-	-
1977-S22	2443176.50	1977 Feb 2	RH-560	-	RH-560-09	RH-560-09	TVC test?	-	-	SHAR	RH	-	-	200?	-	-
1977-S454	2443189.04	1977 Feb 14 1300	RH-560	-	RH-560-10	560.T	-	-	-	SHAR	RH	-	-	300?	-	-
1977-S455	2443432.01	1977 Oct 15 1220	RH-560	-	RH-560	SLV-3 Subsystem Test	-	-	-	SHAR	RH	-	-	150	-	-
1978-S225	2443835.50	1978 Nov 23	Eridan	-	E015	Ariane range test	-	-	-	CSG	ALFS	-	-	350?	-	-
1979-S259	2443912.50	1979 Feb 8	Dauphin	-	DA006	Ariane range test	-	-	-	CSG	ALFS	-	-	135?	-	-
1979-S309	2443934.50	1979 Mar 2	RH-560	-	RH-560-11	RH-560-11	-	-	-	SHAR	RH	-	-	200?	-	-
1978-A70	2443604.50	1978 Apr 6	RH-560/LPR-3T	-	RH-560	LPR-3T-MK I-02	-	-	-	SHAR	RH	-	-	10?	-	-
1979-S147	2444037.50	1979 Jun 13	Eridan	-	E017	Ariane range test	-	-	-	CSG	ALFS	-	-	350?	-	-
1979-S310	2444038.50	1979 Jun 14	RH-560	-	RH-560-12	RH-560-12	-	-	-	SHAR	RH	-	-	200?	-	-
1979-S319	2444038.50	1979 Jun 14	RH-560S	-	RH-560-S-01	RH-560-S-01	-	-	-	SHAR	RH	-	-	200?	-	-
1979-S151	2444049.21	1979 Jun 24 1706	RH-560	-	RH-560-12A	560.12A	-	-	-	SHAR	RH	-	-	332	-	-
1979-S55	2444191.50	1979 Nov 14	Eridan	-	E016	Ariane range test	-	-	-	CSG	ALFS	-	-	350?	-	-
1980-S46	2444285.87	1980 Feb 16 0850	RH-560	-	RH-560-14	Eclipse control	-	-	-	SHAR	RH	-	-	330	-	-
1980-S50	2444285.93	1980 Feb 16 1015	RH-560	-	RH-560-15	Eclipse F-region	-	-	-	SHAR	RH	-	-	0?	-	-
1980-S294	2444293.50	1980 Feb 24	RH-560S	-	RH-560-S-02	RH-560-S-02	-	-	-	SHAR	RH	-	-	200?	-	-
1980-S295	2444414.50	1980 Jun 24	RH-560S	-	RH-560-S-03	RH-560-S-03	-	-	-	SHAR	RH	-	-	200?	-	-
1980-S241	2444514.15	1980 Oct 1 1533	RH-560	-	RH-560-16	Spread F (360/80)	-	-	-	SHAR	RH	-	-	350	-	-
1980-S296	2444576.50	1980 Dec 3	RH-560	-	RH-560-17	Heat Pipe	-	-	-	SHAR	RH	-	-	316	-	-
1981-S258	2444691.50	1981 Mar 28	RH-560	-	RH-560-18	RH-560-18	-	-	-	SHAR	RH	-	-	200?	-	-
1981-S259	2444691.50	1981 Mar 28	RH-560	-	RH-560-19	RH-560-19	-	-	-	SHAR	RH	-	-	200?	-	-
1982-S282	2445017.05	1982 Feb 16 1313:14	RH-560	-	RH-560-20/ASV.19	Spread F	-	-	-	SHAR	RH	-	-	360?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-S203	2445017.07	1982 Feb 16 1339	RH-560	-	RH-560-21/ASV.26	Spread F	-	-	-	SHAR	RH	-	-	364	-	-
1982-S283	2445029.50	1982 Mar 1	RH-560	-	RH-560-22	RH-560-22	-	-	-	SHAR	RH	-	-	200?	-	-
1982-S204	2445030.07	1982 Mar 1 1335	RH-560	-	RH-560-23/ASV.30	ASV.30	-	-	-	SHAR	RH	-	-	364	-	-
1982-S284	2445059.50	1982 Mar 31	RH-560S	-	RH-560-S-04	RH-560-S-04	-	-	-	SHAR	RH	-	-	200?	-	-
1982-S285	2445192.50	1982 Aug 11	RH-560	-	RH-560-24	RH-560-24	-	-	-	SHAR	RH	-	-	200?	-	-
1982-S201	2445297.13	1982 Nov 23 1510	RH-560	-	RH-560-25	Spread F	-	-	-	SHAR	RH	-	-	330	-	-
1982-S202	2445303.20	1982 Nov 29 1650	RH-560	-	RH-560-26	Spread F	-	-	-	SHAR	RH	-	-	330	-	-
1983-S310	2445346.50	1983 Jan 12	RH-560	-	RH-560-27	RH-560-27	-	-	-	SHAR	RH	-	-	200?	-	-
1983-S311	2445465.50	1983 May 11	RH-560	-	RH-560-28	RH-560-28	-	-	-	SHAR	RH	-	-	200?	-	-
1986-S195	2446546.50	1986 Apr 26	RH-560	-	RH-560-29?	DFVLR flight	-	-	-	SHAR	RH	-	-	200?	-	-
1987-S183	2446919.69	1987 May 4 0440	RH-560	-	RH-560-30	SPICE-2?	-	-	-	SHAR	RH	-	-	280	-	-
1988-S126	2447439.17	1988 Oct 4 1600	RH-560	-	RH-560-31	ESF	Equatorial Spread F	-	-	SHAR	RH	-	-	348	-	-
1989-M12	2447557.50	1989 Feb	Hatf I	-	-	-	-	-	-	SOM	-	-	-	70?	-	-
1989-S122	2447557.50	1989 Feb	Hatf II	-	-	-	-	-	-	SOM	-	-	-	100?	-	-
1991-A12	2448371.50	1991 Apr 25	RH-560	-	RH-560-32?	APC-REX	Auton.Pay.Control RExp	-	-	SHAR	RH	-	-	10?	-	-
1992-S62	2448806.86	1992 Jul 3 0833	RH-560	-	RH-560-33?	-	-	-	-	SHAR	RH	-	-	320	-	-
1993-S77	2449038.05	1993 Feb 19 1315	RH-560	-	RH-560-34?	Ba release	Ion Hole Expt	-	-	SHAR	RH	-	-	300?	-	-
1993-S78	2449038.07	1993 Feb 19 1345	RH-560	-	RH-560-35?	Ba release	Ion Hole Expt	-	-	SHAR	RH	-	-	290	-	-
1993-S29	2449096.74	1993 Apr 19 0550	RH-560	-	RH-560-36?	SPICE-3	-	-	-	SHAR	RH	-	-	323	-	-
1995-S55	2449945.50	1995 Aug 16	RH-560/300 Mk II	-	RH-560-II F01	-	-	-	-	SHAR	RH	-	-	420	-	-
1996-S80	2450225.50	1996 May 22	RH-560/300 Mk II	-	RH-560-II F02	-	-	-	-	SHAR	RH	-	-	420	-	-
1997-S35	2450544.50	1997 Apr 6	RH-560/300 Mk II	-	RH-560-II F03	-	-	-	-	SHAR	RH	-	-	420	-	-
1997-S83	2450695.50	1997 Sep 4	RH-560/300 Mk II	-	RH-560-II F04	-	-	-	-	SHAR	RH	-	-	420?	-	-
1998-S39	2450923.08	1998 Apr 19 1351	RH-560/300 Mk II	-	RH-560-II F05	DEOS F05	-	-	-	SHAR	RH	-	-	433	-	-
1998-S55	2451078.12	1998 Sep 21 1451	RH-560/300 Mk II	-	RH-560-II F07	DEOS F07	-	-	-	SHAR	RH	-	-	425	-	-
1998-S57	2451085.13	1998 Sep 28 1511	RH-560/300 Mk II	-	RH-560-II F06	DEOS F06	-	-	-	SHAR	RH	-	-	422	-	-
2000-M53	2451574.50	2000 Feb	Hatf I	-	Hatf-IA	-	-	-	-	SOM?	-	-	-	70?	-	-
2002-M35	2452420.50	2002 May 26	Hatf II	-	Abdali	-	-	-	-	SOM?	-	-	-	70?	-	-
2003-M15	2452724.50	2003 Mar 26	Hatf II	-	-	-	-	-	-	SOM?	-	-	-	70?	-	-
2005-M07	2453460.50	2005 Mar 31	Hatf II	-	-	-	-	-	-	SOM?	-	-	-	70?	-	-
2007-S47	2454162.50	2007 Mar 3	Hatf II	-	-	-	-	-	-	SOM?	-	-	-	70?	-	-
2010-S09	2455211.82	2010 Jan 15 0745	RH-560/300 Mk II	-	RH-560-II F08?	Sooryagrahan 2010	Eclipse	-	-	SDSC	RH	-	-	523	-	-
2010-S05	2455213.50	2010 Jan 17	RH-560/300 Mk II	-	RH-560-II F09?	Sooryagrahan 2010	Eclipse	-	-	SDSC	RH	-	-	548	-	-
2010-A01	2455258.62	2010 Mar 3 0300	ATV	-	ATV-D01	SPEX Scramjet	-	-	-	SDSC	RH	-	-	46	-	-
2016-M02	2457628.52	2016 Aug 28 0030	ATV	-	ATV-D02	SPEX Scramjet	DMRJ Dual Mode Ramjet	-	-	SDSC	RH	-	-	70	-	-
2021-S20	2459286.07	2021 Mar 12 1345	RH-560 Mk III	-	RH-560-III F01	SOUREX	-	-	-	SDSC	RH	-	-	512	-	-
2024-S46	2460513.56	2024 Jul 22 0130	ATV	-	ATV-D03	RH-560	-	-	-	SDSC	RH	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-A712	2434841.50	1954 Apr 9	SE4400	-	F02	0.000	STA	MF	U	-	Test	AASH30-125	-	-
1955-A502	2435385.50	1955 Oct 5	SE4400	-	F41	0.000	STA	MS	-	-	Test	AASH30-125	-	-
1955-A503	2435388.50	1955 Oct 8	SE4400	-	F40	0.000	STA	MS	-	-	Test	AASH30-125	-	-
1957-A43	2435985.50	1957 May 27	SE4400	-	F77	0.000	STA	MF	U	-	Test	AASH25-153	-	-
1957-A49	2435997.50	1957 Jun 8	SE4400	-	F78	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1957-A139	2436186.50	1957 Dec 14	SE4400	-	F79	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1957-A140	2436188.50	1957 Dec 16	SE4400	-	F80	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1957-A142	2436189.50	1957 Dec 17	SE4400	-	F81	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1957-A143	2436191.50	1957 Dec 19	SE4400	-	F84	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1958-A24	2436293.50	1958 Mar 31	SE4400	-	F75	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1958-A25	2436293.50	1958 Mar 31	SE4400	-	F85	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1958-A26	2436294.50	1958 Apr 1	SE4400	-	F83	0.000	STA	MF	U	-	Test	AASH25-153	-	-
1959-A11	2436578.50	1959 Jan 10	SE4400	-	F86	0.000	STA	MF	U	-	Test	AASH25-153	-	-
1959-A12	2436581.50	1959 Jan 13	SE4400	-	F87	0.000	STA	MS	-	-	Test	AASH25-153	AASH30-125	-
1959-S59	2436690.50	1959 May 2	OPd-56-39-22D	-	001	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1959-A91	2436720.50	1959 Jun 1	SE4400	-	F88	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1959-A92	2436724.50	1959 Jun 5	SE4400	-	F76	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1959-S218	2436863.50	1959 Oct 22	OPd-56-39-22D	-	002	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1959-S269	2436917.50	1959 Dec 15	OPd-56-39-22D	-	003	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-A112	2437056.50	1960 May 2	SE4400	-	F89	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1960-S92	2437056.50	1960 May 2	OPd-56-39-22D	-	004	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-A114	2437059.50	1960 May 5	SE4400	-	F90	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1960-S94	2437059.50	1960 May 5	OPd-56-39-22D	-	005	0.000	ONERA	MS	-	-	Reentry Test	Serra	MR601003-25	-
1960-S286	2437203.50	1960 Sep 26	OPd-56-39-22D	-	006	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-S305	2437207.50	1960 Sep 30	OPd-56-39-22D	-	007	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-A371	2437238.50	1960 Nov	Stataltex	-	STX-01	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1960-A372	2437238.50	1960 Nov	Stataltex	-	STX-02	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1960-S381	2437263.50	1960 Nov 25	Antares	-	008	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-S387	2437268.50	1960 Nov 30	Antares	-	009	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1960-A304	2437285.50	1960 Dec 17	VE10 Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1960-A305	2437287.50	1960 Dec 19	VE10 Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1961-A08	2437299.50	1961	Vega Statoreacteur	-	-	0.000	ONERA	AS	-	-	Test	MR610703-43	-	-
1961-S67	2437361.50	1961 Mar 3	Antares	-	010	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1961-S71	2437364.50	1961 Mar 6	Antares	-	011	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1961-S73	2437365.50	1961 Mar 7	Antares	-	012	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1961-M04	2437365.50	1961 Mar 7	SE4400	-	F91	0.000	STA	MS	-	-	Test	AASH17-131	-	-
1961-M05	2437368.50	1961 Mar 10	SE4400	-	F92	0.000	STA	MS	-	-	Test	AASH25-153	-	-
1961-A76	2437374.50	1961 Mar 16	VE10 Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1961-A78	2437379.50	1961 Mar 21	VE10 Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1961-A376	2437419.50	1961 May	Stataltex	-	STX-03	0.000	ONERA	MF	U	-	Ramjet Test	TT-F-10315	-	-
1961-A377	2437419.50	1961 May	Stataltex	-	STX-04	0.000	ONERA	MF	U	-	Ramjet Test	TT-F-10315	-	-
1961-S142	2437432.50	1961 May 13	Antares	-	013	0.000	ONERA	AS	-	-	Ionospheric?	Serra	-	-
1961-A378	2437642.50	1961 Dec 9	Stataltex	-	STX-06	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1961-A379	2437646.50	1961 Dec 13	Stataltex	-	STX-05	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1962-S203	2437842.50	1962 Jun 27	Berenice	-	001	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1962-S226	2437851.50	1962 Jul 6	Berenice	-	002	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1962-A263	2437854.50	1962 Jul 9	Stataltex	-	STX-07	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1962-A264	2437854.50	1962 Jul 9	Stataltex	-	STX-08	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1962-S215	2437845.50	1962 Q3	Berenice	-	003	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1962-S450	2437968.50	1962 Nov	Berenice	-	004	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1962-S530	2438003.50	1962 Dec 5	Dragon	-	D-03	0.000	CNES	SF	U	DMA/	Test	CNES	-	-
1963-A31	2438093.50	1963 Mar 5	VE10A Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1963-M55	2438145.50	1963 Apr 26	Dragon	-	D-04	0.000	CNES	SF	U	SUD/	Test	CNES	-	-
1963-S303	2438207.50	1963 Jun 27	Berenice	-	005	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1963-S326	2438213.50	1963 Jul 3	Berenice	-	006	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1963-A239	2438310.50	1963 Oct 8	Stataltex	-	STX-09	0.000	ONERA	MS	-	-	Ramjet Test	TT-F-10315	-	-
1963-S524	2438332.50	1963 Oct 30	Dragon	-	D-05	0.000	CNES	SS	-	DMA/	Test	CNES	-	-
1964-S14	2438394.50	1964	Berenice	-	007	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1964-S15	2438394.50	1964	Berenice	-	008	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1964-S83	2438435.50	1964 Feb 10	Dragon	-	D-07	0.000	CNES	SS	-	DMA/	Test	CNES	-	-
1964-S199	2438496.50	1964 Apr 11	Dragon	-	D-09	0.000	CNES	SS	-	CNRS/Bordeau	Aeronomy	CNES	SR6,383	-
1964-S203	2438498.50	1964 Apr 13	Dragon	-	D-06	0.000	CNES	SS	-	CNRS/Bordeau	Aeronomy	CNES	-	-
1964-A217	2438508.50	1964 Apr 23	Stataltex	-	STX-10	0.000	ONERA	MF	U	-	Ramjet Test	TT-F-10315	-	-
1964-S398	2438608.55	1964 Aug 1 0113	Dragon	-	D-10	0.000	CNES	SS	-	CNRS/Mozer	Aeronomy/Ionos	Blamont	-	-
1964-S409	2438614.50	1964 Aug 7 0004	Dragon	-	D-11	0.000	CNES	SS	-	CNRS/Mozer	Aeronomy/Ionos	Blamont	-	-
1964-S497	2438668.50	1964 Oct	Berenice	-	009	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1964-S498	2438668.50	1964 Oct	Berenice	-	010	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1964-A168	2438701.50	1964 Nov 2	VE10A Aigle	-	-	0.000	ONERA	AS	-	-	Test	Serra	-	-
1964-S667	2438733.24	1964 Dec 3 1740	Dragon	-	D-16	0.000	CNES	SS	-	MPE/Lust	Aeronomy	CNES	PlanSpaceSci15,357	-
1965-S17	2438760.50	1965	Berenice	-	011	0.000	ONERA	MS	-	-	Reentry Test	Serra	-	-
1965-S359	2438926.50	1965 Jun 15 0000?	Tacite	-	TACITE 01	0.000	ONERA	SS	-	ONERA/Girard	Aeron	SR-VII,934	Serra	-
1965-S474	2438996.50	1965 Aug 24	Dragon	-	D-17	0.000	CNES	SS	-	CNRS/Mozer	Aeronomy/Ionos	CNES	-	-
1965-S487	2439006.50	1965 Sep 3	Dragon	-	D-18	0.000	CNES	SS	-	CNRS/Mozer	Aeronomy/Ionos	CNES	-	-
1965-S636	2439085.25	1965 Nov 20 1753	Dragon	-	D-08	0.000	CNES	SS	-	MPE/Haerendel	Aeron Ba release	WDCRF	-	-
1966-S16	2439125.50	1966	Berenice	-	012	0.000	ONERA	SS	-	ONERA/	Test/Solar	Serra	-	-
1966-S73	2439146.84	1966 Jan 21 0814	Dragon	-	D-21	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	WDCRF	-	-
1966-S254	2439249.58	1966 May 4 0200	Dragon	-	D-12	0.000	CNES	SF	U	CNRS/Do	Aeronomy/Lalpha	WDCRF	-	-
1966-S261	2439258.25	1966 May 12 1800	Dragon	-	D-13	0.000	CNES	SS	-	CNRS/Do	Aeronomy	WDCRF	-	-
1966-S275	2439268.73	1966 May 23 0526	Dragon	-	D-14	0.000	CNES	SS	-	CNRS/Quessette	Aeronomy	WDCRF	-	-
1966-S282	2439272.30	1966 May 26 1905:12	Dragon	-	D-20	0.000	CNES	SS	-	GRI/Berthelier	Ionos	AND	WDCRF	-
1966-S296	2439277.51	1966 Jun 1 0012:18	Dragon	-	D-23	0.000	CNES	SS	-	CNRS/Bruston,Mozer	Ionos/Plasma/Field	AND	WDCRF	-
1966-S316	2439291.10	1966 Jun 14 1427	Dragon	-	D-15	0.000	CNES	SS	-	CNRS/Quessette	Aeronomy	WDCRF	AnnalesGeo25,479	-
1966-S318	2439292.33	1966 Jun 15 1951	Dragon	-	D-22	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	WDCRF	-	-
1966-M24	2439292.51	1966 Jun 16 0014:36	Dragon	-	D-19	0.000	CNES	SF	S1	GRI/Berthelier	Ionos	AND	Massey	-
1966-S545	2439416.45	1966 Oct 17 2251:24	Dragon	-	D-28	0.000	CNES	SS	-	CNRS/Bruston,Mozer	Ionos	AND	WDCRF	-
1966-S600	2439442.07	1966 Nov 12 1340:27	Titus	-	001	0.000	CNES	SS	-	CNRS/Mallique	Solar Eclipse	Taillade	CNES	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-S603	2439442.07	1966 Nov 12 1340:57	Titus	-	002	0.000	CNES	SS	-	CNRS/Mallique	Solar Eclipse	Taillade	CNES	-
1967-S83	2439516.47	1967 Jan 25 2316:00	Dragon	-	D-24	0.000	CNES	SS	-	GRI/Berthelier	Ionos	SpaceWorld6804-18	-	-
1967-S87	2439519.00	1967 Jan 28 1205:33	Dragon	-	D-25	0.000	CNES	SS	-	GRI/Berthelier	Ionos	SR8-178	SpaceWorld6804-18	-
1967-S88	2439519.56	1967 Jan 29 0121:25	Dragon	-	D-26	0.000	CNES	SS	-	GRI/Berthelier	Ionos	SR8-178	SpaceWorld6804-18	-
1967-S89	2439519.63	1967 Jan 29 0309:20	Dragon	-	D-27	0.000	CNES	SS	-	GRI/Berthelier	Ionos	SR8-178	SpaceWorld6804-18	-
1967-A147	2439569.50	1967 Mar 20	Dauphin	-	DA001	0.000	CNES	SF	U	CNES/Cade	Test	CNES	IAC03-IIA2.3.05	-
1967-S249	2439616.12	1967 May 5 1449	Dragon	-	D-33	0.000	CNES	SS	-	SUPA/	Test	WDCRF	-	-
1967-S324	2439669.50	1967 Jun 28	Dauphin	-	DA002	0.000	CNES	SS	-	CNES/Cade	Test	CNES	IAC03-IIA2.3.05	-
1967-S472	2439768.05	1967 Oct 4 1312:30	Dragon	-	D-35	0.000	ESRO	SS	-	UTR/BONN/Denboggende	Solar X/Aeronomy	AND/WDCRF	ESRO67	-
1967-S477	2439770.94	1967 Oct 7 1032:00	Dragon	-	D-30	0.000	ESRO	SS	-	UTR/MPE/Denboggende	Solar X/Aeronomy	AND/WDCRF	SR9,256	-
1967-A128	2439774.08	1967 Oct 10 1401:00	Dragon	-	D-36	0.000	ESRO	SF	U	UTR/BONN/Denboggende	Solar X/Aeronomy	AND/WDCRF	ESRO67	-
1967-A138	2439817.50	1967 Nov 23	Tacite	-	002	0.000	CNES	SF	U	CEA/Labeyrie	XR Astron	CNES	-	-
1968-S131	2439900.50	1968 Feb 14	Dragon	-	D-32	0.000	CNES	SS	-	CNRS/Delaboudiniere	Solar UV	CNES	-	-
1968-S171	2439923.50	1968 Mar 8	Dauphin	-	DA003	0.000	CNES	SS	-	CNES/Cade	Test	CNES	-	-
1968-S176	2439930.65	1968 Mar 15 0343	Dragon 2B	-	D-251A	0.000	CNES	SS	-	GRI/Gendrin	Ionos	SR10,891	CNES	-
1968-S216	2439943.83	1968 Mar 28 0755	Dragon 2B	-	D-252	0.000	CNES	SS	-	GRI/Gendrin	Ionos	SR10,891/Tiziou	CNES	-
1968-S222	2439944.10	1968 Mar 28 1430	Dauphin	-	DA004	0.000	CNES	SS	-	CNES/Cade	Test	Tiziou	CNES	-
1968-S229	2439945.10	1968 Mar 29 1420	Dragon	-	D-34	0.000	CNES	SS	-	SUPA/CNET/Chanin,Ahmd	Test	SR10,561	-	-
1968-S249	2439947.64	1968 Apr 1 0326	Dragon 2B	-	D-253	0.000	CNES	SS	-	GRI/Gendrin	Ionos	SR10,891	CNES	-
1968-S319	2439991.53	1968 May 15 0038	Tacite	-	TACITE 02	0.000	CNES	SS	-	ONERA/Girard	Aeron	ApplOpt9,4,903	CNES	-
1968-S339	2439999.19	1968 May 22 1628:44	Dragon	-	D-31	0.000	ESRO	SF	U	MPIK/UTR/Zahringer	Ionos/Solar X	ESRO-SP-79	-	-
1968-S404	2440060.85	1968 Jul 23 0824	Dragon 3	-	D-301	0.000	CNES	SS	-	CNES/Cade	Test	SciInSp68,4 46	CNES	-
1968-A117	2440125.50	1968 Sep 26	Eridan	-	E002	0.000	CNES	SF	U	CNES/Cade	Test	CNES	N73-23940	-
1968-S532	2440144.93	1968 Oct 15 1015	Tacite	-	004	0.000	CNES	SS	-	CNES/Poher,Remondiere	Test/Solar	TiziouCollection	CNES	-
1968-S565	2440163.57	1968 Nov 3 0142:24	Dragon 2B	-	D-254	0.000	CNES	SS	-	ESRO/CNRS/Reme,Bruston	Ionos	CNES	AND	-
1969-S110	2440258.94	1969 Feb 6 1030	Dragon 2B	-	D-258	0.000	CNES	SS	-	CNET/AN/Pokhunkov,Giraud	Ionos	CNES-PR	SR10,751	-
1969-S118	2440259.07	1969 Feb 6 1345	Dragon 2B	-	D-257	0.000	CNES	SS	-	CNET/AN/Pokhunkov,Giraud	Atmos	CNES-PR	SR10,751	-
1969-S117	2440259.44	1969 Feb 6 2230	Dragon 2B	-	D-256	0.000	CNES	SS	-	CNET/AN/Pokhunkov,Giraud	Ionos	CNES-PR	SR10,751	-
1969-S119	2440259.56	1969 Feb 7 0122	Dragon 2B	-	D-259	0.000	CNES	SS	-	CNET/AN/Pokhunkov,Giraud	Atmos	CNES-PR	SR10,751	-
1969-S198	2440298.01	1969 Mar 17 1209	Dragon	-	D-29	0.000	CNES	SS	-	ORIAS/Delaboudinere	Solar EUV	CNES	-	-
1969-S261	2440323.50	1969 Apr 12	Eridan	-	E005	0.000	CNES	SS	-	CNES/Cade	Test	CNES	N73-23940	-
1969-S263	2440324.52	1969 Apr 13 0033:10	Dragon 2B	-	D-255	0.000	CNES	SS	-	ESRO/Reme	Ionos	CNES	AND	-
1969-S278	2440329.41	1969 Apr 17 2148:04	Dragon 2B	-	D-260	0.000	CNES	SS	-	CNRS/MPE/Bruston,Hazer	Ionos/Ba	CNES	SR12,1357	-
1969-S294	2440334.50	1969 Apr 23	Eridan	-	E003	0.000	CNES	SS	-	CNES/Cade	Test	CNES	N73-23940	-
1969-S300	2440337.50	1969 Apr 26	Dragon 3	-	D-302	0.000	CNES	SS	-	CNES/Cade	Test	CNES	-	-
1969-S344	2440368.50	1969 May 27	Dragon 3	-	D-303	0.000	CNES	SF	U	GRI/Bechin	Ionos	CNES	-	-
1969-S463	2440455.50	1969 Aug 22	Eridan	-	E004	0.000	CNES	SS	-	CNES/Cade	Test	CNES	N73-23940	-
1969-S511	2440485.33	1969 Sep 20 2000	Dragon	-	D-39	0.000	ISRO	SF	U	PRL/GMS/Shirke	Ionos	WDC	Serra	-
1969-S629	2440544.07	1969 Nov 18 1334	Dragon 3	-	D-304	0.000	CNES	SS	-	GRI/Beghin	Ionos	SR11,1071	CNES	-
1970-S344	2440713.43	1970 May 6 2226	Dragon	-	D-37	0.000	CNES	SS	-	TUC/Santochi	Test/Plasma/Fields/	WDCRF	-	-
1970-S553	2440865.95	1970 Oct 6 1050	Dragon 3	-	D-305	0.000	CNES	SS	-	OPM/Steinberg	Ionos	CNES	-	-
1970-S578	2440881.85	1970 Oct 22 0823	Dragon 3	-	D-306	0.000	CNES	SS	-	OPM/Steinberg	Ionos	WDCRF	CNES	-
1971-S129	2441006.26	1971 Feb 23 1809	Tibere	-	-	0.000	ONERA	SS	-	ONERA/	Reentry Test/Aeron	JGR79,1299	-	-
1971-S282	2441088.50	1971 May 17	Eridan	-	E006	0.000	CNES	SS	-	CNES/Remondiere	Test	CNES	N73-23940	-
1971-S443	2441208.68	1971 Sep 14 0420	Dauphin	-	DA005	0.000	CNES	SS	-	LPSP/Millier	Aeronomy	CNES	IAC03-IIA2.3.05	-
1971-S525	2441240.50	1971 Oct 16	Eridan	-	E007 (FU-202)	0.000	CNES	SS	-	LAS/Courtes?	UV Astron	CNES	N73-23940	-
1972-S127	2441395.26	1972 Mar 18 1820	Tibere	-	-	0.000	ONERA	SS	-	ONERA/	Reentry Test	Tiziou	-	-
1972-S180	2441435.51	1972 Apr 28 0010	Dragon 2B	-	SUP	0.000	SUPA	SS	-	SUPA/Rahmatullah,Ahmad	Test/Ionos	SR14,119	WDCRF	-
1972-S474	2441632.50	1972 Nov 11	Eridan	-	E008	0.000	CNES	SS	-	LPSP/Delab.	Solar EUV	IAC03-IIA2.3.05	SpaSciInst1,91	-
1972-S16	2441658.50	1972 Dec 7	Eridan	-	E009	0.000	CNES	SS	-	LAS/Courtes?	UV Astron	CNES30	-	-
1972-S433	2441664.72	1972 Dec 13 0518	Dragon	-	D-38	0.000	CNES	SS	-	LPSP/Crifo	Ionos/geocorona	RevSciIns47,6	AirEtCos462	-
1973-S573	2441709.50	1973 Jan 27	RH-560	-	RH-560-01	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1973-S71	2441731.50	1973 Feb 17 2357	Dragon 3	-	D-308	0.000	CNES	SS	-	OPM/Steinberg	Ionos	WDCRF	-	-
1973-S574	2441942.50	1973 Sep 17	RH-560	-	RH-560-02	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1974-S180	2442162.04	1974 Apr 24 1300	RH-560	-	RH-560-03	0.000	ISRO	SS	-	ISRO/	Test	SHARNews1,4	-	-
1974-S538	2442346.50	1974 Oct 26	RH-560	-	RH-560-04	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1974-S65	2442357.52	1974 Nov 6 0023	Eridan	-	E011A?	0.000	CNES	SS	-	LAS/	UV Astron	Blamont	IAC03-IIA2.3.05	ESA-SP115
1974-S381	2442370.59	1974 Nov 19 0210	Eridan	-	E011B?	0.000	CNES	SS	-	LAS/	UV Astron	AAp50,371	ESA-SP115	-
1975-S48	2442438.61	1975 Jan 26 0237:00	Eridan	-	E012A	0.000	CNES	SS	-	CESR/IKI/IZM/Galperin	Ionos/Plasma	AnnalesGeo36,271	ESA-SP115	-
1975-S73	2442458.57	1975 Feb 15 0136	Eridan	-	E012B	0.000	CNES	SS	-	CESR/IKI/IZM/Galperin	Ionos/Plasma	AnnalesGeo36,271	ESA-SP115	-
1975-S413	2442581.50	1975 Jun 18	RH-560	-	RH-560-05	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1975-S416	2442758.50	1975 Dec 12	RH-560	-	RH-560-06	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1976-S437	2442947.50	1976 Jun 18	RH-560	-	RH-560-07	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1976-S438	2442952.50	1976 Jun 23	RH-560	-	RH-560-08	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1976-A131	2443072.50	1976 Oct 21	RH-560/LPR-3T	-	RH-560	0.000	ISRO	SF	U	ISRO/	Test	SDSC-SR	Rao2015	-
1977-S22	2443176.50	1977 Feb 2	RH-560	-	RH-560-09	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	Raj	-
1977-S454	2443189.04	1977 Feb 14 1300	RH-560	-	RH-560-10	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	-	-
1977-S455	2443432.01	1977 Oct 15 1220	RH-560	-	RH-560	0.000	ISRO	SS	-	ISRO/	Test	Serra	BHRI	Not in SDSC list
1978-S225	2443835.50	1978 Nov 23	Eridan	-	E015	0.000	CNES	SS	-	CNES/	Test	IAC03-IIA2.3.05	-	-
1979-S259	2443912.50	1979 Feb 8	Dauphin	-	DA006	0.000	CNES	SS	-	CNES/	Test	IAC03-IIA2.3.05	-	-
1979-S309	2443934.50	1979 Mar 2	RH-560	-	RH-560-11	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1978-A70	2443604.50	1978 Apr 6	RH-560/LPR-3T	-	RH-560	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1979-S147	2444037.50	1979 Jun 13	Eridan	-	E017	0.000	CNES	SS	-	CNES/	Test	IAC03-IIA2.3.05	-	-
1979-S310	2444038.50	1979 Jun 14	RH-560	-	RH-560-12	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1979-S319	2444038.50	1979 Jun 14	RH-560S	-	RH-560-S-01	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1979-S151	2444049.21	1979 Jun 24 1706	RH-560	-	RH-560-12A	0.000	ISRO	SS	-	TIFR/Singh	XR Astron	IndJRadioSPhys9,201	AAp117,319	-
1979-S55	2444191.50	1979 Nov 14	Eridan	-	E016	0.000	CNES	SS	-	CNES/	Test	IAC03-IIA2.3.05	-	-
1980-S46	2444285.87	1980 Feb 16 0850	RH-560	-	RH-560-14	0.000	ISRO	SS	-	ISRO/ISAS/	Eclipse	ProcInNSA48,A3	SRJ80	-
1980-S50	2444285.93	1980 Feb 16 1015	RH-560	-	RH-560-15	0.000	ISRO	SF	U	ISRO/ISAS/	Eclipse	ProcInNSA48,A3	SRJ80	-
1980-S294	2444293.50	1980 Feb 24	RH-560S	-	RH-560-S-02	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1980-S295	2444414.50	1980 Jun 24	RH-560S	-	RH-560-S-03	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1980-S241	2444514.15	1980 Oct 1 1533	RH-560	-	RH-560-16	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR2,10,195	-	-
1980-S296	2444576.50	1980 Dec 3	RH-560	-	RH-560-17	0.000	ISRO	SS	-	ISAC/Gupta	Tech	SDSC-SR	-	-
1981-S258	2444691.50	1981 Mar 28	RH-560	-	RH-560-18	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1981-S259	2444691.50	1981 Mar 28	RH-560	-	RH-560-19	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1982-S282	2445017.05	1982 Feb 16 1313:14	RH-560	-	RH-560-20/ASV.19	0.000	ISRO	SS	-	PRL/Gupta	Ionos	JATP49,485	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-S203	2445017.07	1982 Feb 16 1339	RH-560	-	RH-560-21/ASV.26	0.000	ISRO	SS	-	PRL/Gupta	Ionos	ASR18,6,335	-	-
1982-S283	2445029.50	1982 Mar 1	RH-560	-	RH-560-22	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1982-S204	2445030.07	1982 Mar 1 1335	RH-560	-	RH-560-23/ASV.30	0.000	ISRO	SS	-	PRL/?	Ionos	ASR18,6,335	-	-
1982-S284	2445059.50	1982 Mar 31	RH-560S	-	RH-560-S-04	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1982-S285	2445192.50	1982 Aug 11	RH-560	-	RH-560-24	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1982-S201	2445297.13	1982 Nov 23 1510	RH-560	-	RH-560-25	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,39	-	-
1982-S202	2445303.20	1982 Nov 29 1650	RH-560	-	RH-560-26	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,39	-	-
1983-S310	2445346.50	1983 Jan 12	RH-560	-	RH-560-27	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1983-S311	2445465.50	1983 May 11	RH-560	-	RH-560-28	0.000	ISRO	SU	-	ISRO/	Test	SDSC-SR	-	-
1986-S195	2446546.50	1986 Apr 26	RH-560	-	RH-560-29?	0.000	ISRO	SU	-	DFVLR/	Test	SDSC-SR	-	-
1987-S183	2446919.69	1987 May 4 0440	RH-560	-	RH-560-30	0.000	ISRO	SS	-	PRL/FREIB/Gupta,Rawer	Ionos	ASR18,6,335	SpaceIndia9304	-
1988-S126	2447439.17	1988 Oct 4 1600	RH-560	-	RH-560-31	0.000	ISRO	SS	-	PRL/Raizada,Chandra	Ionos	AnnGeoph18,141	JATP59,191	-
1989-M12	2447557.50	1989 Feb	Hatf I	-	-	0.000	SUPA	MS	-	SUPA/	Test	EatingGrass	-	-
1989-S122	2447557.50	1989 Feb	Hatf II	-	-	0.000	SUPA	MS	-	SUPA/	Test	EatingGrass	-	-
1991-A12	2448371.50	1991 Apr 25	RH-560	-	RH-560-32?	0.000	ISRO	SF	U	ISRO/DLR/	Test	SDSC-SR	-	-
1992-S62	2448806.86	1992 Jul 3 0833	RH-560	-	RH-560-33?	0.000	ISRO	SS	-	PRL/?	Ionos?	COSPAR95	-	-
1993-S77	2449038.05	1993 Feb 19 1315	RH-560	-	RH-560-34?	0.000	ISRO	SS	-	PRL/Sridharan	Ionos/Release	SpaceIndia9304	JATP59,2051	-
1993-S78	2449038.07	1993 Feb 19 1345	RH-560	-	RH-560-35?	0.000	ISRO	SS	-	PRL/Sridharan	Ionos/Release	SpaceIndia9304	-	-
1993-S29	2449096.74	1993 Apr 19 0550	RH-560	-	RH-560-36?	0.000	ISRO	SS	-	PRL/FREIB/Gupta,Rawer	Ionos	ESA-SP370	SpaceIndia9304	-
1995-S55	2449945.50	1995 Aug 16	RH-560/300 Mk II	-	RH-560-II F01	0.000	ISRO	SS	-	ISRO/	Test	sonyaceramics.com	-	-
1996-S80	2450225.50	1996 May 22	RH-560/300 Mk II	-	RH-560-II F02	0.000	ISRO	SS	-	ISRO/	Test	SDSC-SR	-	-
1997-S35	2450544.50	1997 Apr 6	RH-560/300 Mk II	-	RH-560-II F03	0.000	ISRO	SS	-	ISRO/	Test	DoSAnnRpt97-43	-	-
1997-S83	2450695.50	1997 Sep 4	RH-560/300 Mk II	-	RH-560-II F04	0.000	ISRO	SS	-	ISRO/	Test	DoSAnnRpt97-43	-	-
1998-S39	2450923.08	1998 Apr 19 1351	RH-560/300 Mk II	-	RH-560-II F05	0.000	ISRO/DLR	SS	-	KIEL/Steigies	Ionos	ISIR981012-6	ASR25,1,109	-
1998-S55	2451078.12	1998 Sep 21 1451	RH-560/300 Mk II	-	RH-560-II F07	0.000	ISRO/DLR	SS	-	KIEL/Steigies	Ionos	ISIR981012-6	-	-
1998-S57	2451085.13	1998 Sep 28 1511	RH-560/300 Mk II	-	RH-560-II F06	0.000	ISRO/DLR	SS	-	KIEL/Steigies	Ionos	ISIR981012-6	-	-
2000-M53	2451574.50	2000 Feb	Hatf I	-	Hatf-IA	0.000	PK	MS	-	-	Test	EatingGrass	-	-
2002-M35	2452420.50	2002 May 26	Hatf II	-	Abdali	0.000	PK	MS	-	-	Test	Rigg	-	-
2003-M15	2452724.50	2003 Mar 26	Hatf II	-	-	0.000	PK	MS	-	-	Test	Rigg	-	-
2005-M07	2453460.50	2005 Mar 31	Hatf II	-	-	0.000	PK	MS	-	-	Test	Wire	-	-
2007-S47	2454162.50	2007 Mar 3	Hatf II	-	-	0.000	PK	MS	-	-	Test	Wire	-	-
2010-S09	2455211.82	2010 Jan 15 0745	RH-560/300 Mk II	-	RH-560-II F08?	0.000	ISRO	SS	-	VSSC/	Eclipse	TheHindu100115	www.isro.org	-
2010-S05	2455213.50	2010 Jan 17	RH-560/300 Mk II	-	RH-560-II F09?	0.000	ISRO	SS	-	VSSC/	Eclipse	SDSC_SR	www.isro.org	-
2010-A01	2455258.62	2010 Mar 3 0300	ATV	-	ATV-D01	0.000	ISRO	SS	-	VSSC/	Test/Tech	www.isro.org	-	-
2016-M02	2457628.52	2016 Aug 28 0030	ATV	-	ATV-D02	0.000	ISRO	SS	-	VSSC/	Test/Tech	Wire	-	-
2021-S20	2459286.07	2021 Mar 12 1345	RH-560 Mk III	-	RH-560-III F01	0.000	ISRO	SS	-	VSSC/	Test/Atmos	shar.gov.in	-	-
2024-S46	2460513.56	2024 Jul 22 0130	ATV	-	ATV-D03	0.000	ISRO	SS	-	VSSC/	Test/Tech	isro.gov.in	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-Y23	2439968.50	1968 Apr 22	Super Loki	-	Test 1	-	-	-	-	WS	-	-	-	128	-	-
1968-Y27	2439983.19	1968 May 6 1632	Super Loki	-	Test 2	-	-	-	-	WS	-	-	-	125	-	-
1968-Y25	2439982.50	1968 May 6	Super Loki	-	Test 3	-	-	-	-	WS	-	-	-	125?	-	-
1968-Y28	2439996.50	1968 May 20	Super Loki	-	Test 4	-	-	-	-	WS	-	-	-	125	-	-
1968-Y29	2439996.50	1968 May 20	Super Loki	-	Test 5	-	-	-	-	WS	-	-	-	123	-	-
1968-W246	2440181.45	1968 Nov 20 2245:00	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	75?	-	-
1968-W272	2440210.25	1968 Dec 19 1800:00	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	75?	-	-
1968-W273	2440210.30	1968 Dec 19 1910:00	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	75?	-	-
1969-Y50	2440246.62	1969 Jan 25 0300	Super Loki	-	-	Met Sphere	-	-	-	WS	-	-	-	126	-	-
1969-Y62	2440249.42	1969 Jan 27 2200	Super Loki	-	-	Met Sphere	-	-	-	WS	-	-	-	127	-	-
1969-Y101	2440272.31	1969 Feb 19 1930	Super Loki	-	-	Met Sphere	-	-	-	WS	-	-	-	120?	-	-
1969-Y121	2440332.68	1969 Apr 21 0415	Super Loki	-	-	Met Sphere	-	-	-	WS	-	-	-	120?	-	-
1969-Y136	2440352.79	1969 May 11 0700	Super Loki	-	-	Met Sphere	-	-	-	WS	-	-	-	126	-	-
1969-Y186	2440399.50	1969 Jun 27	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	91	-	-
1970-W521	2440687.35	1970 Apr 10 2020:00	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	75?	-	-
1970-W526	2440688.40	1970 Apr 11 2143:00	Super Loki	-	-	-	-	-	-	CC	LC43	-	-	75?	-	-
1970-W1465	2440866.28	1970 Oct 06 1840:00	Super Loki	-	AFCRL 70-1	-	-	-	-	CC	LC43	-	-	73	-	-
1970-W1474	2440867.17	1970 Oct 07 1600:00	Super Loki	-	AFCRL 70-2	-	-	-	-	CC	LC43	-	-	72	-	-
1970-W1479	2440868.04	1970 Oct 08 1300:00	Super Loki	-	AFCRL 70-3	-	-	-	-	CC	LC43	-	-	78	-	-
1970-W1480	2440868.14	1970 Oct 08 1515:00	Super Loki	-	AFCRL 70-4	-	-	-	-	CC	LC43	-	-	74	-	-
1970-W1481	2440868.18	1970 Oct 08 1623:00	Super Loki	-	AFCRL 70-5	-	-	-	-	CC	LC43	-	-	75	-	-
1972-S448	2441419.55	1972 Apr 12 0105	Super Loki	-	-	ALADDIN II sphere	-	-	-	EGL	-	-	-	115?	-	-
1972-S455	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6160 SSL 1-1	Robin Dart E4-1	-	-	-	WI?	-	-	-	99	-	-
1972-S456	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6161 SSL 1-2	Robin Dart E4-1	-	-	-	WI?	-	-	-	99?	-	-
1972-S457	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6162 SSL 1-3	Robin Dart E4-1	-	-	-	WI?	-	-	-	99?	-	-
1972-S458	2441592.50	1972 Oct 2	Stable Super Loki	-	D1-6163 SSL 1-8	Robin Dart E4-1A	-	-	-	WI?	-	-	-	97	-	-
1973-S464	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6168 SSL 2-9	Robin Dart E4-2	-	-	-	WI?	-	-	-	120	-	-
1973-S465	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6169 SSL 2-10	Robin Dart E4-2	-	-	-	WI?	-	-	-	120	-	-
1973-S466	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6170 SSL 2-11	Robin Dart E4-2	-	-	-	WI?	-	-	-	119	-	-
1973-S467	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6171 SSL 2-12	Robin Dart E4-2	-	-	-	WI?	-	-	-	118	-	-
1973-S468	2441770.50	1973 Mar 29	Stable Super Loki	-	D1-6172 SSL 3-13	Robin Dart E4-3	-	-	-	WI?	-	-	-	104	-	-
1973-S469	2441770.50	1973 Mar 29	Stable Super Loki	-	D1-6173 SSL 3-14	Robin Dart E4-3	-	-	-	WI?	-	-	-	106	-	-
1973-M16	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6175 SSL 3-16	Robin Dart E4-4	-	-	-	WI?	-	-	-	77	-	-
1973-M17	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6176 SSL 3-17	Robin Dart E4-4	-	-	-	WI?	-	-	-	75	-	-
1973-S470	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6177 SSL 3-18	Robin Dart E4-4	-	-	-	WI?	-	-	-	112	-	-
1973-M18	2441831.50	1973 May 29	Stable Super Loki	-	D1-6178 SSL 3-15	Dart F4-1	-	-	-	WI?	-	-	-	73	-	-
1973-M19	2441774.50	1973 Apr 2	Stable Super Loki	-	D1-6478 SSL 3-19	Dart F4-1	-	-	-	WI?	-	-	-	72	-	-
1973-A81	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6179 SSL 4-20	Dart F4-1	-	-	-	WI?	-	-	-	21	-	-
1973-M20	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6180 SSL 4-21	Dart F4-1	-	-	-	WI?	-	-	-	72	-	-
1973-M21	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6181 SSL 4-22	Dart F4-1	-	-	-	WI?	-	-	-	66	-	-
1973-M22	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6182 SSL 4-23	Dart F4-1	-	-	-	WI?	-	-	-	70	-	-
1973-M23	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6183 SSL 4-24	Dart F4-1	-	-	-	WI?	-	-	-	70	-	-
1973-S471	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6184 SSL 4-25	Robin Dart E4-3	-	-	-	WI?	-	-	-	105	-	-
1973-S472	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6185 SSL 4-26	Robin Dart E4-3	-	-	-	WI?	-	-	-	106	-	-
1973-S473	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6186 SSL 4-27	Robin Dart E4-3	-	-	-	WI?	-	-	-	107	-	-
1973-S474	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6187 SSL 4-28	Robin Dart E4-3	-	-	-	WI?	-	-	-	104	-	-
1973-S475	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6188 SSL 4-29	Robin Dart E4-3	-	-	-	WI?	-	-	-	100?	-	-
1973-S476	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6189 SSL 4-30	Robin Dart E4-3	-	-	-	WI?	-	-	-	104	-	-
1973-W846	2441863.50	1973 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W847	2441863.50	1973 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-Y292	2441881.21	1973 Jul 17 1658:00	Super Loki	-	T 1-6682	-	-	-	-	WI	-	-	-	80	-	-
1973-Y294	2441881.25	1973 Jul 17 1801:00	Super Loki	-	T 1-6684	-	-	-	-	WI	-	-	-	81	-	-
1973-W896	2441880.50	1973 Jul 17?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W897	2441880.50	1973 Jul 17?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W898	2441880.50	1973 Jul 17?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W899	2441880.50	1973 Jul 17?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W900	2441880.50	1973 Jul 17?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W904	2441881.50	1973 Jul 18?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W905	2441881.50	1973 Jul 18?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W906	2441881.50	1973 Jul 18?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W907	2441881.50	1973 Jul 18?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-W908	2441881.50	1973 Jul 18?	Super Loki	-	-	-	-	-	-	WI	-	-	-	75?	-	-
1973-Y296	2441881.63	1973 Jul 18 0314:00	Super Loki	-	G 1-6687	-	-	-	-	WI	-	-	-	116	-	-
1973-Y297	2441881.71	1973 Jul 18 0502:00	Super Loki	-	G 1-6689	-	-	-	-	WI	-	-	-	115	-	-
1973-Y298	2441881.77	1973 Jul 18 0628:00	Super Loki	-	T 1-6692	-	-	-	-	WI	-	-	-	82	-	-
1973-W960	2441894.50	1973 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W961	2441894.50	1973 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W962	2441894.50	1973 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1109	2441925.50	1973 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1110	2441925.50	1973 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1111	2441925.50	1973 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1182	2441944.18	1973 Sep 18 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1188	2441945.14	1973 Sep 19 1521:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1633	2441946.08	1973 Sep 20 1349	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	69	-	-
1973-W1195	2441946.18	1973 Sep 20 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1634	2441946.64	1973 Sep 21 0328	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1635	2441947.13	1973 Sep 21 1513	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	58	-	-
1973-W1636	2441947.67	1973 Sep 22 0402	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	74	-	-
1973-W1637	2441950.22	1973 Sep 24 1710	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1638	2441950.51	1973 Sep 25 0019	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	74	-	-
1973-W1217	2441951.18	1973 Sep 25 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1639	2441951.25	1973 Sep 25 1800	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	70	-	-
1973-W1640	2441951.57	1973 Sep 26 0139	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	68	-	-
1973-W1641	2441952.09	1973 Sep 26 1404	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	67	-	-
1973-W1221	2441952.14	1973 Sep 26 1514:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1642	2441953.12	1973 Sep 27 1458	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	74	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-W1228	2441953.18	1973 Sep 27 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1643	2441953.61	1973 Sep 28 0233	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1644	2441954.62	1973 Sep 29 0252	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1654	2441956.65	1973 Oct 1 0330	Super Loki	-	CIMO	Datasonde	-	-	-	CSG	-	-	-	73	-	-
1973-W1236	2441955.50	1973 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1237	2441955.50	1973 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1250	2441958.18	1973 Oct 2 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1257	2441959.19	1973 Oct 3 1640:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1265	2441960.18	1973 Oct 4 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1275	2441965.18	1973 Oct 9 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1284	2441966.20	1973 Oct 10 1641:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	69	-	-
1973-W1292	2441968.11	1973 Oct 12 1441:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1973-W1305	2441972.18	1973 Oct 16 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1973-W1312	2441973.14	1973 Oct 17 1527:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1324	2441975.14	1973 Oct 19 1517:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1339	2441980.12	1973 Oct 24 1446:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	66	-	-
1973-W1346	2441982.14	1973 Oct 26 1521:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1973-W1357	2441986.18	1973 Oct 30 1624:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	70	-	-
1973-W1370	2441987.17	1973 Oct 31 1606:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1973-W1363	2441986.50	1973 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1364	2441986.50	1973 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1365	2441986.50	1973 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1366	2441986.50	1973 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1482	2442016.50	1973 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1483	2442016.50	1973 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1484	2442016.50	1973 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1973-W1485	2442016.50	1973 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W03	2442047.50	1974 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W04	2442047.50	1974 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W05	2442047.50	1974 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W06	2442047.50	1974 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W07	2442047.50	1974 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-Y16	2442064.04	1974 Jan 16 1300	Super Loki	-	INTA SHR-7401	DLR H-SD-60	-	-	-	ELAR	-	-	-	100?	-	-
1974-W145	2442078.50	1974 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W146	2442078.50	1974 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W147	2442078.50	1974 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W234	2442100.14	1974 Feb 21 1521:00	Super Loki	-	G 1-6480	-	-	-	-	WI	-	-	-	69	-	-
1974-W266	2442106.50	1974 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W267	2442106.50	1974 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W268	2442106.50	1974 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W269	2442106.50	1974 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W354	2442126.12	1974 Mar 19 1500	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	73	-	-
1974-W356	2442126.13	1974 Mar 19 1501	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	63	-	-
1974-W358	2442126.17	1974 Mar 19 1600	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	65	-	-
1974-W361	2442126.17	1974 Mar 19 1605	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	63	-	-
1974-W362	2442126.25	1974 Mar 19 1800	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	75	-	-
1974-W364	2442126.26	1974 Mar 19 1820	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	69	-	-
1974-W366	2442126.29	1974 Mar 19 1900	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	64	-	-
1974-W370	2442126.33	1974 Mar 19 1954	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	67	-	-
1974-W371	2442126.38	1974 Mar 19 2100	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	75	-	-
1974-W372	2442126.38	1974 Mar 19 2100	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	73	-	-
1974-W376	2442126.42	1974 Mar 19 2200	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	78	-	-
1974-W378	2442126.43	1974 Mar 19 2220	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	75	-	-
1974-W379	2442126.50	1974 Mar 20 0000	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	76	-	-
1974-W381	2442126.50	1974 Mar 20 0005	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	78	-	-
1974-W382	2442126.51	1974 Mar 20 0021	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	76	-	-
1974-W384	2442126.53	1974 Mar 20 0047	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	64	-	-
1974-W385	2442126.54	1974 Mar 20 0100	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	63	-	-
1974-W388	2442126.55	1974 Mar 20 0108	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	77	-	-
1974-W389	2442126.62	1974 Mar 20 0300	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	74	-	-
1974-W390	2442126.62	1974 Mar 20 0300	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	74	-	-
1974-W394	2442126.67	1974 Mar 20 0400	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	66	-	-
1974-W395	2442126.70	1974 Mar 20 0453	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	62	-	-
1974-W396	2442126.75	1974 Mar 20 0600	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	75	-	-
1974-W398	2442126.75	1974 Mar 20 0600	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	72	-	-
1974-W401	2442126.79	1974 Mar 20 0700	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	69	-	-
1974-W402	2442126.80	1974 Mar 20 0706	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	63	-	-
1974-W406	2442126.88	1974 Mar 20 0900	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	67	-	-
1974-W407	2442126.88	1974 Mar 20 0900	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	72	-	-
1974-W409	2442126.92	1974 Mar 20 1000	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	65	-	-
1974-W411	2442126.92	1974 Mar 20 1000	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	59	-	-
1974-W413	2442126.94	1974 Mar 20 1040	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	62	-	-
1974-W414	2442127.00	1974 Mar 20 1200	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	75	-	-
1974-W416	2442127.00	1974 Mar 20 1200	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	74	-	-
1974-W417	2442127.03	1974 Mar 20 1240	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	63	-	-
1974-W418	2442127.04	1974 Mar 20 1303	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	64	-	-
1974-W422	2442127.12	1974 Mar 20 1500	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	CSG	-	-	-	77	-	-
1974-W423	2442127.12	1974 Mar 20 1500	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	ANT	-	-	-	63	-	-
1974-W424	2442127.17	1974 Mar 20 1600	Super Loki	-	-	DIURNAL PWN-10A	-	-	-	ASC	-	-	-	63	-	-
1974-W426	2442127.19	1974 Mar 20 1639	Super Loki	-	-	DIURNAL PWN-11A	-	-	-	WI	-	-	-	61	-	-
1974-M06	2442127.91	1974 Mar 21 0951	Super Loki	-	-	Temp. Profile	-	-	-	CSG	-	-	-	70	-	-
1974-W554	2442160.53	1974 Apr 23 0041:00	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W559	2442162.18	1974 Apr 24 1615:59	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W574	2442164.16	1974 Apr 26 1555:00	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W582	2442167.11	1974 Apr 29 1442:00	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W599	2442169.15	1974 May 1 1530:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	68	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W606	2442171.11	1974 May 3 1445:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W631	2442174.11	1974 May 6 1442:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	67	-	-
1974-W636	2442175.19	1974 May 7 1634:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W645	2442177.16	1974 May 9 1549:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	58	-	-
1974-W661	2442182.19	1974 May 14 1634:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W666	2442183.14	1974 May 15 1514:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	61	-	-
1974-W676	2442185.17	1974 May 17 1609:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W689	2442190.14	1974 May 22 1517:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W701	2442192.18	1974 May 24 1614:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	65	-	-
1974-W704	2442195.11	1974 May 27 1438:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	60	-	-
1974-W712	2442197.14	1974 May 29 1518:00	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W729	2442199.18	1974 May 31 1614:59	Super Loki	-	-	Starute,Datasonde	-	-	-	FC	-	-	-	64	-	-
1974-W736	2442202.17	1974 Jun 3 1559:59	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	62	-	-
1974-W745	2442204.14	1974 Jun 5 1522:59	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W761	2442206.18	1974 Jun 7 1619:59	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	56	-	-
1974-W782	2442211.14	1974 Jun 12 1519:00	Super Loki	?	-	Starute,Datasonde	-	-	-	FC	-	-	-	63	-	-
1974-W844	2442228.24	1974 Jun 29 1740:00	Super Loki	-	T 1-7328	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W845	2442228.31	1974 Jun 29 1930:00	Super Loki	-	T 1-7329	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W847	2442228.36	1974 Jun 29 2035:00	Super Loki	-	T 1-3330	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W849	2442228.40	1974 Jun 29 2140:00	Super Loki	-	T 1-7331	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W850	2442228.48	1974 Jun 29 2330:00	Super Loki	-	T 1-7332	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W861	2442228.58	1974 Jun 30 0200:00	Super Loki	-	T 1-7333	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W863	2442228.70	1974 Jun 30 0455:00	Super Loki	-	T 1-7334	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W864	2442228.76	1974 Jun 30 0620:00	Super Loki	-	T 1-7335	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W866	2442228.81	1974 Jun 30 0720:00	Super Loki	-	T 1-7336	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W868	2442228.88	1974 Jun 30 0910:00	Super Loki	-	T 1-7337	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W870	2442228.93	1974 Jun 30 1020:00	Super Loki	-	T 1-7338	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W871	2442228.97	1974 Jun 30 1110:00	Super Loki	-	T 1-7339	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W873	2442229.07	1974 Jun 30 1345:00	Super Loki	-	T 1-7340	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W876	2442229.21	1974 Jun 30 1700:00	Super Loki	-	T 1-7341	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W856	2442228.50	1974 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W857	2442228.50	1974 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W858	2442228.50	1974 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W859	2442228.50	1974 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W972	2442259.10	1974 Jul 30 1422:00	Super Loki	-	G 1-7460	-	-	-	-	WI	-	-	-	72	-	-
1974-W974	2442259.22	1974 Jul 30 1716:00	Super Loki	-	G 1-7461	-	-	-	-	WI	-	-	-	72	-	-
1974-W975	2442259.29	1974 Jul 30 1900:00	Super Loki	-	G 1-7462	-	-	-	-	WI	-	-	-	75	-	-
1974-W980	2442259.50	1974 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W981	2442259.50	1974 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W982	2442259.50	1974 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W983	2442259.50	1974 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1114	2442290.50	1974 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1115	2442290.50	1974 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1116	2442290.50	1974 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1117	2442290.50	1974 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1247	2442320.50	1974 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1248	2442320.50	1974 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1249	2442320.50	1974 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1379	2442351.50	1974 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1380	2442351.50	1974 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1381	2442351.50	1974 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1382	2442351.50	1974 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1496	2442381.50	1974 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1497	2442381.50	1974 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1974-W1498	2442381.50	1974 Dec	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W03	2442412.50	1975 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W04	2442412.50	1975 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W05	2442412.50	1975 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W47	2442430.38	1975 Jan 17 2100	Super Loki	-	-	ALADDIN 75	-	-	-	WI	-	-	-	75?	-	-
1975-W48	2442430.41	1975 Jan 17 2150	Super Loki	-	-	ALADDIN 75	-	-	-	WI	-	-	-	75?	-	-
1975-W61	2442430.50	1975 Jan 18 0001	Super Loki	-	-	ALADDIN 75	-	-	-	WI	-	-	-	75?	-	-
1975-W68	2442430.51	1975 Jan 18 0012	Super Loki	-	-	ALADDIN 75	-	-	-	WI	-	-	-	75?	-	-
1975-W69	2442430.55	1975 Jan 18 0114	Super Loki	-	-	ALADDIN 75	-	-	-	WI	-	-	-	75?	-	-
1975-W115	2442443.50	1975 Feb	Super Loki	?	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W116	2442443.50	1975 Feb	Super Loki	?	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W199	2442464.26	1975 Feb 20 1811:00	Super Loki	-	G 1-7753	-	-	-	-	WI	-	-	-	69	-	-
1975-W201	2442464.31	1975 Feb 20 1927:00	Super Loki	-	G 1-7754	-	-	-	-	WI	-	-	-	67	-	-
1975-W211	2442465.30	1975 Feb 21 1910:00	Super Loki	-	G 1-7755	-	-	-	-	WI	-	-	-	70	-	-
1975-W241	2442471.50	1975 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W242	2442471.50	1975 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W243	2442471.50	1975 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W385	2442502.50	1975 Apr	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W419	2442510.29	1975 Apr 07 1851:00	Super Loki	-	G 1-7756	-	-	-	-	WI	-	-	-	70	-	-
1975-W502	2442532.50	1975 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W503	2442532.50	1975 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W504	2442532.50	1975 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W505	2442532.50	1975 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W608	2442557.10	1975 May 24 1424:00	Super Loki	-	GU1-7743	Antarqui SL Ozone 1	-	-	-	CHI	-	-	-	70	-	-
1975-W609	2442557.29	1975 May 24 1900:00	Super Loki	-	GU1-7742	Antarqui SL Ozone ?	-	-	-	CHI	-	-	-	70	-	-
1975-W610	2442558.32	1975 May 25 1944:00	Super Loki	-	GU1-7744	Antarqui SL Ozone 2	-	-	-	CHI	-	-	-	69	-	-
1975-W649	2442563.50	1975 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W650	2442563.50	1975 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W651	2442563.50	1975 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W652	2442563.50	1975 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-S396	2442589.00	1975 Jun 25 1157	Super Loki	-	INTA SLW-7501	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1975-S397	2442594.98	1975 Jul 1 1125	Super Loki	-	INTA SLW-7502	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-W750	2442593.50	1975 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W751	2442593.50	1975 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W752	2442593.50	1975 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W753	2442593.50	1975 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W754	2442593.50	1975 Jul	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W846	2442623.22	1975 Jul 29 1717:00	Super Loki	-	T 1-7959	-	-	-	-	WI	-	-	-	72	-	-
1975-W857	2442624.50	1975 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W858	2442624.50	1975 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W859	2442624.50	1975 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W860	2442624.50	1975 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W904	2442636.20	1975 Aug 11 1651	Super Loki	-	T 1-8409	-	-	-	-	WI	-	-	-	54	-	-
1975-W979	2442655.50	1975 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W980	2442655.50	1975 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W981	2442655.50	1975 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W982	2442655.50	1975 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-S398	2442658.97	1975 Sep 3 1120	Super Loki	-	INTA SLW-7503	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1975-W1090	2442685.50	1975 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W1091	2442685.50	1975 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W1092	2442685.50	1975 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W1093	2442685.50	1975 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W1094	2442685.50	1975 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1975-W1434	2442734.50	1975 Nov 18	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1435	2442734.50	1975 Nov 18	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1436	2442734.50	1975 Nov 18	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1286	2442735.15	1975 Nov 18 1532:00	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	73	-	-
1975-W1437	2442735.50	1975 Nov 19	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1438	2442735.50	1975 Nov 19	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1439	2442735.50	1975 Nov 19	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-S399	2442736.00	1975 Nov 19 1200	Super Loki	-	INTA SLW-7504	-	-	-	-	ELAR	-	-	-	100?	-	-
1975-W1293	2442736.22	1975 Nov 19 1716:00	Super Loki	-	G 1-7935	Nimbus Comparison	-	-	-	WI	-	-	-	70	-	-
1975-W1295	2442736.25	1975 Nov 19 1800:00	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	77	-	-
1975-W1440	2442737.50	1975 Nov 21	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1441	2442737.50	1975 Nov 21	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1442	2442737.50	1975 Nov 21	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1443	2442737.50	1975 Nov 21	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1444	2442737.50	1975 Nov 21	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-Y339	2442737.66	1975 Nov 21 0345:00	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	84	-	-
1975-W1445	2442749.50	1975 Dec 3	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1446	2442749.50	1975 Dec 3	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1447	2442749.50	1975 Dec 3	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1341	2442750.15	1975 Dec 3 1532:00	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	79	-	-
1975-W1343	2442750.23	1975 Dec 3 1726:59	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	74	-	-
1975-W1448	2442750.50	1975 Dec 4	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1449	2442750.50	1975 Dec 4	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1450	2442750.50	1975 Dec 4	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1451	2442750.50	1975 Dec 4	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1452	2442750.50	1975 Dec 4	Super Loki	-	-	Nimbus Comparison	-	-	-	WI	-	-	-	70?	-	-
1975-W1347	2442750.75	1975 Dec 4 0600:00	Super Loki	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	79	-	-
1975-S400	2442764.00	1975 Dec 17 1200	Super Loki	-	INTA SLW-7505	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1975-A76	2442767.18	1975 Dec 20 1624:00	Super Loki	-	FLIGHT 120	-	-	-	-	ANT	-	-	-	49	-	-
1975-S401	2442777.95	1975 Dec 31 1046	Super Loki	-	INTA SLW-7506	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W1902	2442780.17	1976 Jan 2 1559	Super Loki	-	INTA SLW-7601	Winter Anomaly	-	-	-	ELAR	-	-	-	70?	-	-
1976-S395	2442782.20	1976 Jan 4 1652	Super Loki	-	INTA SLW-7602	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S396	2442784.19	1976 Jan 6 1640	Super Loki	-	INTA SLW-7603	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S397	2442786.00	1976 Jan 8 1200	Super Loki	-	INTA SLW-7604	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S398	2442787.16	1976 Jan 9 1553	Super Loki	-	INTA SLW-7605	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S399	2442790.08	1976 Jan 12 1350	Super Loki	-	INTA SLW-7606	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S400	2442792.08	1976 Jan 14 1350	Super Loki	-	INTA SLW-7607	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S401	2442798.16	1976 Jan 20 1550	Super Loki	-	INTA SLW-7608	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W93	2442799.06	1976 Jan 21 1332:00	Super Loki	-	T 1-8161	-	-	-	-	WI	-	-	-	57	-	-
1976-S402	2442799.19	1976 Jan 21 1640	Super Loki	-	INTA SLW-7609	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S403	2442800.16	1976 Jan 22 1556	Super Loki	-	INTA SLW-7610	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W1899	2442800.27	1976 Jan 22 1835	Super Loki	-	-	Conductivity	-	-	-	WI	-	-	-	70?	-	-
1976-S404	2442801.16	1976 Jan 23 1550	Super Loki	-	INTA SLW-7611	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S405	2442802.17	1976 Jan 24 1600	Super Loki	-	INTA SLW-7612	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S406	2442802.20	1976 Jan 24 1641	Super Loki	-	INTA SLW-7613	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S407	2442804.17	1976 Jan 26 1559	Super Loki	-	INTA SLW-7614	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S408	2442806.16	1976 Jan 28 1550	Super Loki	-	INTA SLW-7615	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-S409	2442808.15	1976 Jan 30 1538	Super Loki	-	INTA SLW-7616	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W153	2442808.50	1976 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W154	2442808.50	1976 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W174	2442812.20	1976 Feb 03 1649:00	Super Loki	-	FLIGHT 122	-	-	-	-	ANT	-	-	-	54	-	-
1976-W178	2442813.10	1976 Feb 04 1431:00	Super Loki	-	FLIGHT 123	-	-	-	-	ANT	-	-	-	55	-	-
1976-S410	2442814.18	1976 Feb 5 1626	Super Loki	-	INTA SLW-7617	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W191	2442814.31	1976 Feb 05 1928:00	Super Loki	-	FLIGHT 124	-	-	-	-	ANT	-	-	-	54	-	-
1976-W194	2442815.17	1976 Feb 06 1607:00	Super Loki	-	FLIGHT 125	-	-	-	-	ANT	-	-	-	54	-	-
1976-S411	2442817.18	1976 Feb 8 1620	Super Loki	-	INTA SLW-7618	Winter Anomaly	-	-	-	ELAR	-	-	-	90?	-	-
1976-W315	2442837.50	1976 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W316	2442837.50	1976 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W317	2442837.50	1976 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W423	2442855.23	1976 Mar 17 1730:00	Super Loki	-	T 1-8198	-	-	-	-	WI	-	-	-	67	-	-
1976-W562	2442883.20	1976 Apr 14 1643:00	Super Loki	-	T 1-8199	-	-	-	-	WI	-	-	-	69	-	-
1976-W640	2442898.50	1976 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W641	2442898.50	1976 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W642	2442898.50	1976 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W643	2442898.50	1976 May	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-W758	2442918.23	1976 May 19 1734:00	Super Loki	-	T 1-8286	-	-	-	-	WI	-	-	-	71	-	-
1976-W763	2442918.32	1976 May 19 1937:00	Super Loki	-	T 1-8288	-	-	-	-	WI	-	-	-	71	-	-
1976-W768	2442919.21	1976 May 20 1702:00	Super Loki	-	T 1-8287	-	-	-	-	WI	-	-	-	71	-	-
1976-W812	2442929.50	1976 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W813	2442929.50	1976 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W814	2442929.50	1976 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W815	2442929.50	1976 Jun	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-S421	2442932.14	1976 Jun 2 1523	Super Loki	-	-	-	-	-	-	WI	-	-	-	80?	-	-
1976-W908	2442953.21	1976 Jun 23 1701:00	Super Loki	-	T 1-8332	-	-	-	-	WI	-	-	-	57	-	-
1976-W924	2442959.11	1976 Jun 29 1437:00	Super Loki	-	T 1-8289	-	-	-	-	WI	-	-	-	71	-	-
1976-W981	2442974.25	1976 Jul 14 1754:00	Super Loki	-	T 1-8333	-	-	-	-	WI	-	-	-	72	-	-
1976-W1054	2442990.50	1976 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1055	2442990.50	1976 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1056	2442990.50	1976 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1057	2442990.50	1976 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1058	2442990.50	1976 Aug	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1183	2443015.12	1976 Aug 24 1458:00	Super Loki	-	T 1-8439	-	-	-	-	WI	-	-	-	66	-	-
1976-W1190	2443016.11	1976 Aug 25 1445:00	Super Loki	-	T 1-8440	-	-	-	-	WI	-	-	-	66	-	-
1976-W1197	2443017.12	1976 Aug 26 1457:00	Super Loki	-	T 1-8437	-	-	-	-	WI	-	-	-	67	-	-
1976-W1200	2443017.17	1976 Aug 26 1604:00	Super Loki	-	T 1-8450	-	-	-	-	WI	-	-	-	67	-	-
1976-W1216	2443021.50	1976 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1217	2443021.50	1976 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1218	2443021.50	1976 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1219	2443021.50	1976 Sep	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1279	2443031.09	1976 Sep 09 1416:00	Super Loki	-	T 1-8454	-	-	-	-	WI	-	-	-	70	-	-
1976-W1282	2443031.15	1976 Sep 09 1530:00	Super Loki	-	T 1-8455	-	-	-	-	WI	-	-	-	68	-	-
1976-W1339	2443044.17	1976 Sep 22 1600:00	Super Loki	-	T 1-8401	-	-	-	-	WI	-	-	-	70	-	-
1976-W1379	2443050.32	1976 Sep 28 1947:00	Super Loki	-	TM1-8521	-	-	-	-	PF	-	-	-	70	-	-
1976-W1393	2443051.50	1976 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1394	2443051.50	1976 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1395	2443051.50	1976 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1396	2443051.50	1976 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1397	2443051.50	1976 Oct	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1413	2443053.30	1976 Oct 01 1915:00	Super Loki	-	TM1-8522	-	-	-	-	PF	-	-	-	74	-	-
1976-W1505	2443073.21	1976 Oct 21 1700:00	Super Loki	-	T 1-8402	-	-	-	-	WI	-	-	-	70	-	-
1976-W1553	2443082.50	1976 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1554	2443082.50	1976 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1555	2443082.50	1976 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1556	2443082.50	1976 Nov	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1976-W1611	2443093.01	1976 Nov 10 1215:00	Super Loki	-	T 1-8404	-	-	-	-	WI	-	-	-	70	-	-
1976-W1626	2443094.01	1976 Nov 11 1216:00	Super Loki	-	T 1-8407	-	-	-	-	WI	-	-	-	71	-	-
1976-W1628	2443094.08	1976 Nov 11 1400:00	Super Loki	-	T 1-8403	-	-	-	-	WI	-	-	-	71	-	-
1976-W1657	2443100.19	1976 Nov 17 1633:00	Super Loki	-	T 1-8406	-	-	-	-	WI	-	-	-	70	-	-
1976-W1656	2443100.18	1976 Nov 17 1621:00	Super Loki	-	T 1-8405	-	-	-	-	WI	-	-	-	68	-	-
1976-W1751	2443117.04	1976 Dec 04 1253:00	Super Loki	-	FLIGHT-141	AE-5 Cal	Ozone	-	-	ANT	-	-	-	51	-	-
1976-W1752	2443117.09	1976 Dec 4 1404:59	Super Loki	-	-	-	-	-	-	ANT	-	-	-	73	-	-
1976-W1753	2443119.09	1976 Dec 06 1410:00	Super Loki	-	FLIGHT-142	Nimbus 4 Cal	Ozone	-	-	ANT	-	-	-	55	-	-
1976-S447	2443125.25	1976 Dec 12 1800	Super Loki	-	-	-	-	-	-	ANT	-	-	-	70?	-	-
1976-S445	2443126.30	1976 Dec 13 1918	Super Loki	-	T 1-8412	Starute Test	-	-	-	WI	-	-	-	70?	-	-
1976-S446	2443126.35	1976 Dec 13 2017	Super Loki	-	T 1-8413	Starute Test	-	-	-	WI	-	-	-	70?	-	-
1976-W1860	2443135.14	1976 Dec 22 1514:59	Super Loki	-	T1-8599	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1976-W1863	2443135.17	1976 Dec 22 1604:00	Super Loki	-	T 1-8408	Ozone Flight 143	-	-	-	WI	-	-	-	70	-	-
1977-W01	2443143.50	1977 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W02	2443143.50	1977 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W03	2443143.50	1977 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W04	2443143.50	1977 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-S361	2443160.98	1977 Jan 17 1136	Super Loki	-	INTA SLW-7701	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S362	2443162.98	1977 Jan 19 1133	Super Loki	-	INTA SLW-7702	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S363	2443163.01	1977 Jan 19 1208	Super Loki	-	INTA SLW-7703	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W118	2443163.15	1977 Jan 19 1535:59	Super Loki	-	-	Arcasonde	-	-	-	WI	-	-	-	70	-	-
1977-W123	2443163.23	1977 Jan 19 1730:00	Super Loki	-	T 1-8414	Ozone Flight 144	-	-	-	WI	-	-	-	71	-	-
1977-S364	2443164.98	1977 Jan 21 1134	Super Loki	-	INTA SLW-7704	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S365	2443167.98	1977 Jan 24 1131	Super Loki	-	INTA SLW-7705	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S366	2443168.00	1977 Jan 24 1200	Super Loki	-	INTA SLW-7706	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S367	2443169.98	1977 Jan 26 1134	Super Loki	-	INTA SLW-7707	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S368	2443170.01	1977 Jan 26 1221	Super Loki	-	INTA SLW-7708	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S369	2443171.98	1977 Jan 28 1133	Super Loki	-	INTA SLW-7709	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S370	2443175.00	1977 Jan 31 1155	Super Loki	-	INTA SLW-7710	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W225	2443174.50	1977 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W226	2443174.50	1977 Feb	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-S416	2443176.98	1977 Feb 2 1138	Super Loki	-	INTA SLW-7711	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S371	2443178.98	1977 Feb 4 1132	Super Loki	-	INTA SLW-7712	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S372	2443179.96	1977 Feb 5 1109	Super Loki	-	INTA SLW-7713	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S373	2443179.99	1977 Feb 5 1150	Super Loki	-	INTA SLW-7714	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S374	2443181.98	1977 Feb 7 1134	Super Loki	-	INTA SLW-7715	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S375	2443183.98	1977 Feb 9 1132	Super Loki	-	INTA SLW-7716	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S376	2443185.98	1977 Feb 11 1137	Super Loki	-	INTA SLW-7717	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S377	2443190.98	1977 Feb 16 1133	Super Loki	-	INTA SLW-7718	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W359	2443191.16	1977 Feb 16 1545:59	Super Loki	-	T 1-8691	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W362	2443191.23	1977 Feb 16 1732:00	Super Loki	-	T 1-8415	Ozone Flight 145	-	-	-	WI	-	-	-	73	-	-
1977-W363	2443191.25	1977 Feb 16 1807:00	Super Loki	-	TH1-8708	Ozone Flight 146	-	-	-	FC	-	-	-	73	-	-
1977-W364	2443191.26	1977 Feb 16 1812:00	Super Loki	-	T 1-8418	Ozone Flight 147	-	-	-	WI	-	-	-	51	-	-
1977-W366	2443191.32	1977 Feb 16 1944:59	Super Loki	-	-	-	-	-	-	WS	-	-	-	60	-	-
1977-W367	2443191.39	1977 Feb 16 2120:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	56	-	-
1977-S378	2443198.00	1977 Feb 23 1153	Super Loki	-	INTA SLW-7719	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S451	2443198.17	1977 Feb 23 1600	Super Loki	-	T 1-8648	Datasonde	-	-	-	WI	-	-	-	71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-W393	2443198.21	1977 Feb 23 1700:00	Super Loki	-	FLIGHT 148 /T 1-	-	-	-	-	WI	-	-	-	71	-	-
1977-W415	2443202.50	1977 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W416	2443202.50	1977 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W417	2443202.50	1977 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W418	2443202.50	1977 Mar	Super Loki	-	-	-	-	-	-	FC	-	-	-	75?	-	-
1977-S379	2443205.00	1977 Mar 2 1154	Super Loki	-	INTA SLW-7720	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S380	2443211.98	1977 Mar 9 1131	Super Loki	-	INTA SLW-7721	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S381	2443218.98	1977 Mar 16 1130	Super Loki	-	INTA SLW-7722	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W520	2443219.21	1977 Mar 16 1700:00	Super Loki	-	T 1-8416	-	-	-	-	WI	-	-	-	71	-	-
1977-W522	2443219.26	1977 Mar 16 1819:00	Super Loki	-	FLIGHT 150 /TH1-	-	-	-	-	FC	-	-	-	73	-	-
1977-S382	2443225.98	1977 Mar 23 1135	Super Loki	-	INTA SLW-7723	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S383	2443232.99	1977 Mar 30 1141	Super Loki	-	INTA SLW-7724	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S384	2443234.98	1977 Apr 1 1131	Super Loki	-	INTA SLW-7725	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W607	2443235.11	1977 Apr 01 1440:00	Super Loki	-	T 1-8722	-	-	-	-	WI	-	-	-	72	-	-
1977-S385	2443237.98	1977 Apr 4 1131	Super Loki	-	INTA SLW-7726	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S386	2443244.99	1977 Apr 11 1151	Super Loki	-	INTA SLW-7727	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S387	2443246.98	1977 Apr 13 1134	Super Loki	-	INTA SLW-7728	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S388	2443248.98	1977 Apr 15 1131	Super Loki	-	INTA SLW-7729	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S389	2443251.98	1977 Apr 18 1131	Super Loki	-	INTA SLW-7730	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S390	2443253.98	1977 Apr 20 1131	Super Loki	-	INTA SLW-7731	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-A21	2443254.21	1977 Apr 20 1656:00	Super Loki	-	T 1-8721	-	-	-	-	WI	-	-	-	49	-	-
1977-W702	2443254.25	1977 Apr 20 1800:00	Super Loki	-	TH1-8710	-	-	-	-	FC	-	-	-	73	-	-
1977-S391	2443255.98	1977 Apr 22 1131	Super Loki	-	INTA SLW-7732	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S392	2443258.98	1977 Apr 25 1132	Super Loki	-	INTA SLW-7733	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S393	2443260.99	1977 Apr 27 1139	Super Loki	-	INTA SLW-7734	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S394	2443262.98	1977 Apr 29 1131	Super Loki	-	INTA SLW-7735	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S395	2443267.98	1977 May 4 1132	Super Loki	-	INTA SLW-7736	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S396	2443275.00	1977 May 11 1154	Super Loki	-	INTA SLW-7737	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S310	2443281.81	1977 May 18 0726	Super Loki	?	Flight 2025	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1977-S311	2443281.90	1977 May 18 0930	Super Loki	?	Flight 2026	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1977-S312	2443282.03	1977 May 18 1237	Super Loki	?	Flight 2028	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1977-S313	2443282.06	1977 May 18 1320	Super Loki	?	Flight 2029	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1977-S314	2443282.07	1977 May 18 1343	Super Loki	?	Flight AC6	Accelerometer Sphere	-	-	-	KMR	-	-	-	90?	-	-
1977-W857	2443282.19	1977 May 18 1638:00	Super Loki	-	FLIGHT 154 /T 1-	-	-	-	-	WI	-	-	-	70	-	-
1977-W860	2443282.26	1977 May 18 1813:00	Super Loki	-	FLIGHT 155 /TH1-	-	-	-	-	FC	-	-	-	70	-	-
1977-W898	2443291.11	1977 May 27 1434:00	Super Loki	-	Intercomp prep 1A	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W899	2443291.11	1977 May 27 1440:00	Super Loki	-	Intercomp prep 1B	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W907	2443291.28	1977 May 27 1838:59	Super Loki	-	Intercomp prep 2A	Arcasonde	-	-	-	WI	-	-	-	75	-	-
1977-W908	2443291.28	1977 May 27 1845:00	Super Loki	-	Intercomp prep 2B	Arcasonde	-	-	-	WI	-	-	-	72	-	-
1977-W912	2443291.46	1977 May 27 2256:59	Super Loki	-	Intercomp prep 3A	Arcasonde	-	-	-	WI	-	-	-	69	-	-
1977-W913	2443291.46	1977 May 27 2303:00	Super Loki	-	Intercomp prep 3B	Arcasonde	-	-	-	WI	-	-	-	60	-	-
1977-M21	2443291.60	1977 May 28 0230:00	Super Loki	-	Intercomp prep 4A	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W916	2443291.61	1977 May 28 0240:00	Super Loki	-	Intercomp prep 4B	Arcasonde	-	-	-	WI	-	-	-	74	-	-
1977-W917	2443291.77	1977 May 28 0630:00	Super Loki	-	Intercomp prep 5A	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-M22	2443291.78	1977 May 28 0647:00	Super Loki	-	Intercomp prep 5B	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-M24	2443291.95	1977 May 28 1042:00	Super Loki	-	Intercomp prep 6A	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-M25	2443291.95	1977 May 28 1047:00	Super Loki	-	Intercomp prep 6B	Arcasonde	-	-	-	WI	-	-	-	73	-	-
1977-S397	2443302.98	1977 Jun 8 1132	Super Loki	-	INTA SLW-7738	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1011	2443310.19	1977 Jun 15 1636:00	Super Loki	-	FLIGHT 156 /T 1-	-	-	-	-	WI	-	-	-	70	-	-
1977-S398	2443316.98	1977 Jun 22 1131	Super Loki	-	INTA SLW-7739	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1055	2443317.25	1977 Jun 22 1800:00	Super Loki	-	FLIGHT 157 /TH1-	-	-	-	-	FC	-	-	-	75?	-	-
1977-W1057	2443317.30	1977 Jun 22 1911:00	Super Loki	-	FLIGHT 158 /TH1-	-	-	-	-	FC	-	-	-	72	-	-
1977-W1189	2443344.21	1977 Jul 19 1703:00	Super Loki	-	FLIGHT 159 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	73	-	-
1977-W1196	2443345.21	1977 Jul 20 1706:00	Super Loki	-	FLIGHT 160 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	73	-	-
1977-W1201	2443345.26	1977 Jul 20 1820:00	Super Loki	-	FLIGHT 161 /TH1-	-	-	-	-	FC	-	-	-	73	-	-
1977-W1206	2443345.43	1977 Jul 20 2213:00	Super Loki	-	FLIGHT 162 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	72	-	-
1977-W1209	2443346.00	1977 Jul 21 1154:00	Super Loki	-	FLIGHT 163 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	73	-	-
1977-W1211	2443346.10	1977 Jul 21 1428:00	Super Loki	-	FLIGHT 164 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	73	-	-
1977-W1212	2443346.21	1977 Jul 21 1703:00	Super Loki	-	FLIGHT 165 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	74	-	-
1977-W1216	2443346.32	1977 Jul 21 1938:00	Super Loki	-	FLIGHT 166 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	74	-	-
1977-W1218	2443346.43	1977 Jul 21 2213:00	Super Loki	-	FLIGHT 167 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	73	-	-
1977-W1220	2443347.01	1977 Jul 22 1210:00	Super Loki	-	FLIGHT 168 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	74	-	-
1977-W1223	2443347.22	1977 Jul 22 1722:00	Super Loki	-	FLIGHT 169 /T 1-	ASRP Ozone	-	-	-	WI	-	-	-	72	-	-
1977-S399	2443353.50	1977 Jul 29 0000	Super Loki	-	INTA SLW-7740	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S400	2443357.01	1977 Aug 1 1214	Super Loki	-	INTA SLW-7741	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S401	2443360.98	1977 Aug 5 1135	Super Loki	-	INTA SLW-7742	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-M23	2443366.08	1977 Aug 10 1400:00	Super Loki	-	US-USSR Intercomp	No. 1 Datasonde	-	-	-	WI	-	-	-	72	-	-
1977-M02	2443367.68	1977 Aug 12 0419	Super Loki	-	US-USSR Intercomp	No. 2 Datasonde	-	-	-	WI	-	-	-	73	-	-
1977-M03	2443367.79	1977 Aug 12 0659	Super Loki	-	US-USSR Intercomp	No. 3 Datasonde	-	-	-	WI	-	-	-	75	-	-
1977-M04	2443367.96	1977 Aug 12 1100	Super Loki	-	US-USSR Intercomp	No. 4 Datasonde	-	-	-	WI	-	-	-	72	-	-
1977-S423	2443367.97	1977 Aug 12 1111	Super Loki	-	US-USSR Intercomp	No. 4 Sphere	-	-	-	WI	-	-	-	112	-	-
1977-S402	2443367.98	1977 Aug 12 1131	Super Loki	-	INTA SLW-7743	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-M05	2443371.24	1977 Aug 15 1744	Super Loki	-	US-USSR Intercomp	No. 5 Datasonde	-	-	-	WI	-	-	-	72	-	-
1977-M06	2443371.31	1977 Aug 15 1930	Super Loki	-	US-USSR Intercomp	No. 6 Datasonde	-	-	-	WI	-	-	-	79	-	-
1977-M07	2443371.32	1977 Aug 15 1942	Super Loki	-	US-USSR Intercomp	No. 6 Sphere	-	-	-	WI	-	-	-	113	-	-
1977-M08	2443371.55	1977 Aug 16 0113	Super Loki	-	US-USSR Intercomp	No. 7 Datasonde	-	-	-	WI	-	-	-	77	-	-
1977-S435	2443371.56	1977 Aug 16 0123	Super Loki	-	US-USSR Intercomp	No. 7 Sphere	-	-	-	WI	-	-	-	111	-	-
1977-W1364	2443372.27	1977 Aug 16 1835	Super Loki	-	US-USSR Intercomp	No. 8 Datasonde	-	-	-	WI	-	-	-	76	-	-
1977-M10	2443372.33	1977 Aug 16 2000	Super Loki	-	US-USSR Intercomp	No. 9 Datasonde	-	-	-	WI	-	-	-	78	-	-
1977-S436	2443372.36	1977 Aug 16 2032	Super Loki	-	US-USSR Intercomp	No. 9 Sphere	-	-	-	WI	-	-	-	115	-	-
1977-W1368	2443373.21	1977 Aug 17 1700:00	Super Loki	-	FLIGHT 170 /T 1-	-	-	-	-	WI	-	-	-	73	-	-
1977-W1371	2443373.25	1977 Aug 17 1800:00	Super Loki	-	FLIGHT 171 /TH1-	-	-	-	-	FC	-	-	-	72	-	-
1977-W1372	2443373.26	1977 Aug 17 1821:00	Super Loki	-	-	-	-	-	-	WS	-	-	-	72	-	-
1977-M11	2443373.35	1977 Aug 17 2025	Super Loki	-	US-USSR Intercomp	No. 10 Datasonde	-	-	-	WI	-	-	-	78	-	-
1977-M12	2443374.55	1977 Aug 19 0116	Super Loki	-	US-USSR Intercomp	No. 11 Datasonde	-	-	-	WI	-	-	-	79	-	-
1977-S437	2443374.56	1977 Aug 19 0125	Super Loki	-	US-USSR Intercomp	No. 11 Sphere	-	-	-	WI	-	-	-	113	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-M13	2443374.62	1977 Aug 19 0300	Super Loki	-	US-USSR Intercomp	No. 12 Datasonde	-	-	-	WI	-	-	-	77	-	-
1977-S438	2443374.73	1977 Aug 19 0524	Super Loki	-	US-USSR Intercomp	No. 13 Sphere	-	-	-	WI	-	-	-	114	-	-
1977-M14	2443374.73	1977 Aug 19 0537	Super Loki	-	US-USSR Intercomp	No. 13 Datasonde	-	-	-	WI	-	-	-	76	-	-
1977-S403	2443374.99	1977 Aug 19 1139	Super Loki	-	INTA SLW-7744	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-M16	2443375.33	1977 Aug 19 2000	Super Loki	-	US-USSR Intercomp	No. 14 Datasonde	-	-	-	WI	-	-	-	77	-	-
1977-S439	2443375.42	1977 Aug 19 2210	Super Loki	-	US-USSR Intercomp	No. 15 Datasonde	-	-	-	WI	-	-	-	80	-	-
1977-M17	2443375.54	1977 Aug 20 0100	Super Loki	-	US-USSR Intercomp	No. 16 Datasonde	-	-	-	WI	-	-	-	76	-	-
1977-M09	2443378.46	1977 Aug 22 2308	Super Loki	-	US-USSR Intercomp	No. 17 Datasonde	-	-	-	WI	-	-	-	74	-	-
1977-M18	2443378.54	1977 Aug 23 0100	Super Loki	-	US-USSR Intercomp	No. 18 Datasonde	-	-	-	WI	-	-	-	74	-	-
1977-M19	2443378.65	1977 Aug 23 0339	Super Loki	-	US-USSR Intercomp	No. 19 Datasonde	-	-	-	WI	-	-	-	76	-	-
1977-M20	2443379.56	1977 Aug 24 0128	Super Loki	-	US-USSR Intercomp	No. 20 Datasonde	-	-	-	WI	-	-	-	73	-	-
1977-W1910	2443379.62	1977 Aug 24 0300	Super Loki	-	US-USSR Intercomp	No. 21 Datasonde	-	-	-	WI	-	-	-	75	-	-
1977-S404	2443393.98	1977 Sep 7 1131	Super Loki	-	INTA SLW-7745	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S405	2443394.01	1977 Sep 7 1208	Super Loki	-	INTA SLW-7746	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S406	2443400.98	1977 Sep 14 1131	Super Loki	-	INTA SLW-7747	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1467	2443401.25	1977 Sep 14 1802:00	Super Loki	-	FLIGHT 172 /T 1-	-	-	-	-	WI	-	-	-	68	-	-
1977-S407	2443407.98	1977 Sep 21 1131	Super Loki	-	INTA SLW-7748	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1494	2443408.26	1977 Sep 21 1810:00	Super Loki	-	FLIGHT 173 /TH1-	-	-	-	-	FC	-	-	-	72	-	-
1977-Y335	2443410.97	1977 Sep 24 1115:00	Super Loki	-	-	AN/DMQ-9 Sphere	-	-	-	WS	-	-	-	103	-	-
1977-Y336	2443411.01	1977 Sep 24 1214:59	Super Loki	-	-	AN/DMQ-9 Sphere	-	-	-	WS	-	-	-	101	-	-
1977-Y337	2443411.02	1977 Sep 24 1234:59	Super Loki	-	-	AN/DMQ-9 Sphere	-	-	-	WS	-	-	-	98	-	-
1977-S408	2443415.02	1977 Sep 28 1230	Super Loki	-	INTA SLW-7749	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-Y343	2443416.27	1977 Sep 29 1822:00	Super Loki	-	FLIGHT 174 /TW1-	-	-	-	-	WS	-	-	-	84	-	-
1977-S409	2443422.02	1977 Oct 5 1234	Super Loki	-	INTA SLW-7750	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1580	2443429.21	1977 Oct 12 1700:00	Super Loki	-	FLIGHT 175 /T 1-	-	-	-	-	WI	-	-	-	73	-	-
1977-S410	2443436.02	1977 Oct 19 1234	Super Loki	-	INTA SLW-7751	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1621	2443438.25	1977 Oct 21 1800:00	Super Loki	-	FLIGHT 176 /TH1-	-	-	-	-	FC	-	-	-	72	-	-
1977-S411	2443450.02	1977 Nov 2 1231	Super Loki	-	INTA SLW-7752	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S412	2443464.02	1977 Nov 16 1231	Super Loki	-	INTA SLW-7753	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1733	2443464.23	1977 Nov 16 1737:00	Super Loki	-	FLIGHT 177 /T 1-	-	-	-	-	WI	-	-	-	72	-	-
1977-W1734	2443464.25	1977 Nov 16 1800:00	Super Loki	-	FLIGHT 178 /TH1-	-	-	-	-	FC	-	-	-	75	-	-
1977-S413	2443478.02	1977 Nov 30 1231	Super Loki	-	INTA SLW-7754	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-S414	2443478.04	1977 Nov 30 1257	Super Loki	-	INTA SLW-7755	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1977-W1862	2443492.22	1977 Dec 14 1712:00	Super Loki	-	FLIGHT 179 /T 1-	-	-	-	-	WI	-	-	-	56	-	-
1977-W1869	2443493.21	1977 Dec 15 1656:00	Super Loki	-	FLIGHT 180 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1977-W1876	2443494.25	1977 Dec 16 1800:00	Super Loki	-	FLIGHT 181 /TH1-	-	-	-	-	FC	-	-	-	75	-	-
1977-S415	2443499.03	1977 Dec 21 1242	Super Loki	-	INTA SLW-7756	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S302	2443520.02	1978 Jan 11 1235	Super Loki	-	INTA SLW-7801	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S303	2443522.03	1978 Jan 13 1242	Super Loki	-	INTA SLW-7802	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S304	2443525.03	1978 Jan 16 1243	Super Loki	-	INTA SLW-7803	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S305	2443525.05	1978 Jan 16 1305	Super Loki	-	INTA SLW-7804	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S306	2443527.02	1978 Jan 18 1231	Super Loki	-	INTA SLW-7805	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-W62	2443527.21	1978 Jan 18 1708:00	Super Loki	-	FLIGHT 182 /T 1-	-	-	-	-	WI	-	-	-	72	-	-
1978-W64	2443527.25	1978 Jan 18 1804:00	Super Loki	-	FLIGHT 183 /TH1-	-	-	-	-	FC	-	-	-	74	-	-
1978-S307	2443529.03	1978 Jan 20 1247	Super Loki	-	INTA SLW-7806	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S308	2443532.02	1978 Jan 23 1231	Super Loki	-	INTA SLW-7807	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S309	2443536.02	1978 Jan 27 1231	Super Loki	-	INTA SLW-7808	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S310	2443539.02	1978 Jan 30 1235	Super Loki	-	INTA SLW-7809	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S311	2443543.02	1978 Feb 3 1235	Super Loki	-	INTA SLW-7810	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S312	2443546.02	1978 Feb 6 1236	Super Loki	-	INTA SLW-7811	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S313	2443553.02	1978 Feb 13 1231	Super Loki	-	INTA SLW-7812	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-W182	2443555.21	1978 Feb 15 1703:00	Super Loki	-	FLIGHT 184 /T 1-	-	-	-	-	WI	-	-	-	70	-	-
1978-W184	2443555.25	1978 Feb 15 1803:00	Super Loki	-	FLIGHT 185 /TH1-	-	-	-	-	FC	-	-	-	74	-	-
1978-W316	2443583.22	1978 Mar 15 1714:00	Super Loki	-	FLIGHT 187 /T 1-	-	-	-	-	WI	-	-	-	76	-	-
1978-W345	2443590.25	1978 Mar 22 1801:00	Super Loki	-	FLIGHT 186 /TH1-	-	-	-	-	FC	-	-	-	74	-	-
1978-W347	2443590.27	1978 Mar 22 1835:00	Super Loki	-	FLIGHT 188 /TH1-	-	-	-	-	FC	-	-	-	67	-	-
1978-S263	2443603.87	1978 Apr 5 0855	Super Loki	?	Flight 2018	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1978-S264	2443603.95	1978 Apr 5 1041	Super Loki	?	Flight 2019	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1978-S265	2443604.03	1978 Apr 5 1243	Super Loki	?	Flight 2021	Sphere	-	-	-	KMR	-	-	-	90?	-	-
1978-W422	2443611.21	1978 Apr 12 1700:00	Super Loki	-	FLIGHT 189 /T 1-	-	-	-	-	WS	-	-	-	72	-	-
1978-W469	2443627.29	1978 Apr 28 1900:00	Super Loki	-	FLIGHT 190 /TH1-	-	-	-	-	FC	-	-	-	73	-	-
1978-W532	2443646.13	1978 May 17 1503:00	Super Loki	-	T 1-9409	-	-	-	-	WS	-	-	-	71	-	-
1978-W534	2443646.14	1978 May 17 1515:00	Super Loki	-	T 1-9410	-	-	-	-	WS	-	-	-	71	-	-
1978-W538	2443646.21	1978 May 17 1702:00	Super Loki	-	FLIGHT 191 /T 1-	-	-	-	-	WS	-	-	-	71	-	-
1978-W541	2443646.28	1978 May 17 1843:00	Super Loki	-	T 1-9411	-	-	-	-	WS	-	-	-	70	-	-
1978-W544	2443646.30	1978 May 17 1905:00	Super Loki	-	T 1-9412	-	-	-	-	WS	-	-	-	67	-	-
1978-W546	2443646.33	1978 May 17 1948:00	Super Loki	-	T 1-9413	-	-	-	-	WS	-	-	-	72	-	-
1978-W547	2443646.33	1978 May 17 2000:00	Super Loki	-	T 1-9414	-	-	-	-	WS	-	-	-	66	-	-
1978-W583	2443653.25	1978 May 24 1800:00	Super Loki	-	FLIGHT 192 /TH1-	-	-	-	-	FC	-	-	-	71	-	-
1978-W647	2443674.22	1978 Jun 14 1711:00	Super Loki	-	FLIGHT 193 /T 1-	-	-	-	-	WS	-	-	-	71	-	-
1978-W651	2443674.25	1978 Jun 14 1806:00	Super Loki	-	FLIGHT 194 /TH1-	-	-	-	-	FC	-	-	-	73	-	-
1978-W738	2443702.21	1978 Jul 12 1704:00	Super Loki	-	FLIGHT 195 /T 1-	-	-	-	-	WI	-	-	-	74	-	-
1978-W740	2443702.27	1978 Jul 12 1836:00	Super Loki	-	FLIGHT 196 /TH1-	-	-	-	-	FC	-	-	-	73	-	-
1978-S314	2443706.98	1978 Jul 17 1131	Super Loki	-	INTA SLW-7813	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S315	2443707.02	1978 Jul 17 1227	Super Loki	-	INTA SLW-7814	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S316	2443708.09	1978 Jul 18 1412	Super Loki	-	INTA SLW-7815	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S317	2443715.98	1978 Jul 26 1131	Super Loki	-	INTA SLW-7816	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-S318	2443724.99	1978 Aug 4 1144	Super Loki	-	INTA SLW-7817	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-W848	2443737.21	1978 Aug 16 1707:00	Super Loki	-	FLIGHT 197 /T 1-	-	-	-	-	WI	-	-	-	68	-	-
1978-W849	2443737.23	1978 Aug 16 1729:00	Super Loki	-	FLIGHT 198 /T 1-	-	-	-	-	WI	-	-	-	74	-	-
1978-W850	2443737.26	1978 Aug 16 1816:00	Super Loki	-	FLIGHT 199 /TH1-	-	-	-	-	FC	-	-	-	69	-	-
1978-S319	2443738.98	1978 Aug 18 1136	Super Loki	-	INTA SLW-7818	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-W875	2443744.23	1978 Aug 23 1734:00	Super Loki	-	FLIGHT 200 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1978-W887	2443746.21	1978 Aug 25 1703:00	Super Loki	-	FLIGHT 201 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1978-W908	2443752.04	1978 Aug 31 1304:00	Super Loki	-	FLIGHT 202 /T 1-	-	-	-	-	WI	-	-	-	61	-	-
1978-W910	2443752.21	1978 Aug 31 1708:00	Super Loki	-	FLIGHT 203 /T 1-	-	-	-	-	WI	-	-	-	63	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1978-W972	2443772.05	1978 Sep 20 1314:00	Super Loki	-	FLIGHT 204 /T 1-	-	-	-	-	WI	-	-	-	57	-	-
1978-W978	2443772.23	1978 Sep 20 1732:00	Super Loki	-	FLIGHT 205 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1978-W980	2443772.25	1978 Sep 20 1800:00	Super Loki	-	FLIGHT 206 /TH1-	-	-	-	-	FC	-	-	-	60	-	-
1978-W983	2443772.35	1978 Sep 20 2030:00	Super Loki	-	FLIGHT 207 /T 1-	-	-	-	-	WI	-	-	-	63	-	-
1978-S320	2443799.99	1978 Oct 18 1145	Super Loki	-	INTA SLW-7819	Prog. Meteo Nacional	-	-	-	ELAR	-	-	-	100?	-	-
1978-W1076	2443800.22	1978 Oct 18 1721:00	Super Loki	-	FLIGHT 208 /T 1-	-	-	-	-	WI	-	-	-	75?	-	-
1978-W1077	2443800.24	1978 Oct 18 1752:00	Super Loki	-	FLIGHT 209 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1978-W1078	2443800.25	1978 Oct 18 1805:00	Super Loki	-	FLIGHT 210 /TH1-	-	-	-	-	FC	-	-	-	53	-	-
1978-W1158	2443826.22	1978 Nov 13 1711:00	Super Loki	-	FLIGHT 211 /TH1-	-	-	-	-	FC	-	-	-	75?	-	-
1978-W1181	2443832.13	1978 Nov 19 1508:00	Super Loki	-	FLIGHT 212	-	-	-	-	CLBI	-	-	-	74	-	-
1978-W1183	2443832.21	1978 Nov 19 1700:00	Super Loki	-	FLIGHT 213 /TH1-	-	-	-	-	FC	-	-	-	75	-	-
1978-W1195	2443835.09	1978 Nov 22 1408:00	Super Loki	-	FLIGHT 214 /TN1-	-	-	-	-	CLBI	-	-	-	73	-	-
1978-W1208	2443838.13	1978 Nov 25 1510:00	Super Loki	-	FLIGHT 215	-	-	-	-	CLBI	-	-	-	73	-	-
1978-W1217	2443841.08	1978 Nov 28 1358:00	Super Loki	-	FLIGHT 216 /TN1-	-	-	-	-	CLBI	-	-	-	73	-	-
1978-W1219	2443842.18	1978 Nov 29 1613:00	Super Loki	-	FLIGHT 217 /T 1-	-	-	-	-	WI	-	-	-	74	-	-
1978-W1284	2443863.15	1978 Dec 20 1542:00	Super Loki	-	FLIGHT 218 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1978-W1288	2443863.22	1978 Dec 20 1713:00	Super Loki	-	FLIGHT 219 /TH1-	-	-	-	-	FC	-	-	-	77	-	-
1979-W02	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W03	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W04	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W05	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W06	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W07	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W08	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W09	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W10	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W11	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W12	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W13	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W14	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W15	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W16	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W17	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W18	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W19	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W20	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W21	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W22	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W23	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W24	2443873.50	1979 Jan	Super Loki	-	-	-	-	-	-	FC	-	-	-	70?	-	-
1979-W41	2443881.23	1979 Jan 7 1727	Super Loki	-	F-220/T 1-9631	-	-	-	-	WI	-	-	-	64	-	-
1979-W42	2443881.24	1979 Jan 7 1749	Super Loki	-	F-221/T 1-9645	-	-	-	-	WI	-	-	-	65	-	-
1979-W54	2443883.19	1979 Jan 9 1628:00	Super Loki	-	FLIGHT 222 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1979-W69	2443885.22	1979 Jan 11 1714:00	Super Loki	-	FLIGHT 223 /TH1-	-	-	-	-	FC	-	-	-	76	-	-
1979-Y607	2443924.36	1979 Feb 19 2038	Super Loki	-	-	Eclipse pre Sonde	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y608	2443928.25	1979 Feb 23 1800	Super Loki	-	-	Eclipse pre Sonde	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y609	2443929.16	1979 Feb 24 1551	Super Loki	-	-	Eclipse pre Sonde	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y611	2443930.27	1979 Feb 25 1830	Super Loki	-	-	Eclipse Sonde	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-Y613	2443931.30	1979 Feb 26 1915	Super Loki	-	-	Eclipse Sonde	-	-	-	RLAKE	COCH	-	-	80?	-	-
1979-W309	2443931.69	1979 Feb 27 0430	Super Loki	-	CMSL-09	Eclipse Blunt probe	-	-	-	RLAKE	CHK	-	-	75?	-	-
1979-Y614	2443931.73	1979 Feb 27 0530	Super Loki	-	-	Eclipse Met Probe	-	-	-	RLAKE	CHK	-	-	75?	-	-
1979-W311	2443932.11	1979 Feb 27 1440	Super Loki	-	CMSL-10	Eclipse Blunt Probe	-	-	-	RLAKE	CHK	-	-	75?	-	-
1979-Y615	2443932.16	1979 Feb 27 1545	Super Loki	-	-	Eclipse Met Probe	-	-	-	RLAKE	CHK	-	-	80?	-	-
1979-W326	2443933.24	1979 Feb 28 1750:00	Super Loki	-	FLIGHT 224 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1979-W380	2443948.21	1979 Mar 15 1708:00	Super Loki	-	FLIGHT 225 /TH1-	-	-	-	-	FC	-	-	-	75	-	-
1979-W391	2443952.17	1979 Mar 19 1612:00	Super Loki	-	FLIGHT 226 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1979-W415	2443957.10	1979 Mar 24 1423:00	Super Loki	-	FLIGHT 227 /TN1-	-	-	-	-	CLBI	-	-	-	74	-	-
1979-W427	2443961.22	1979 Mar 28 1722:00	Super Loki	-	FLIGHT 228 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1979-W428	2443961.28	1979 Mar 28 1840:00	Super Loki	-	T 1-9640	-	-	-	-	WI	-	-	-	59	-	-
1979-W463	2443969.28	1979 Apr 05 1838:00	Super Loki	-	FLIGHT 229 /TH1-	-	-	-	-	PRIM	-	-	-	70	-	-
1979-W465	2443969.41	1979 Apr 05 2154:00	Super Loki	-	FLIGHT 230 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1979-W466	2443969.43	1979 Apr 05 2213:00	Super Loki	-	FLIGHT 231 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1979-W487	2443975.24	1979 Apr 11 1752:00	Super Loki	-	FLIGHT 232 /TH1-	-	-	-	-	PRIM	-	-	-	68	-	-
1979-W496	2443977.26	1979 Apr 13 1810:00	Super Loki	-	FLIGHT 233 /TN1-	-	-	-	-	CLBI	-	-	-	65	-	-
1979-W527	2443985.08	1979 Apr 21 1358:00	Super Loki	-	FLIGHT 234 /TN1-	-	-	-	-	CLBI	-	-	-	67	-	-
1979-W576	2443997.19	1979 May 03 1636:00	Super Loki	-	FLIGHT 235 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1979-W577	2443997.25	1979 May 03 1805:00	Super Loki	-	FLIGHT 236 /TH1-	-	-	-	-	PRIM	-	-	-	68	-	-
1979-W620	2444006.24	1979 May 12 1746:00	Super Loki	-	FLIGHT 237	-	-	-	-	WI	-	-	-	65	-	-
1979-Y300	2444015.42	1979 May 21 2200:00	Super Loki	-	-	-	-	-	KORO	WI	LP2?	-	-	84	-	-
1979-W1036	2444113.17	1979 Aug 27 1610:00	Super Loki	-	FLIGHT 244 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1979-W1103	2444130.18	1979 Sep 13 1615:00	Super Loki	-	FLIGHT 245 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1979-W1118	2444135.27	1979 Sep 18 1830:00	Super Loki	-	FLIGHT 247 /TH1-	-	-	-	-	PRIM	-	-	-	57	-	-
1979-W1117	2444135.25	1979 Sep 18 1755:00	Super Loki	-	FLIGHT 246 /TH1-	-	-	-	-	PRIM	-	-	-	66	-	-
1979-W1197	2444156.92	1979 Oct 10 1010:00	Super Loki	-	FLIGHT 248 /TN1-	-	-	-	-	CLBI	-	-	-	66	-	-
1979-W1237	2444168.16	1979 Oct 21 1548:00	Super Loki	-	FLIGHT 249 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1979-W1238	2444168.19	1979 Oct 21 1635:00	Super Loki	-	FLIGHT 250 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1979-W1240	2444168.23	1979 Oct 21 1732:00	Super Loki	-	FLIGHT 251 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1979-W1283	2444179.05	1979 Nov 01 1316:00	Super Loki	-	FLIGHT 252 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1979-W1284	2444179.08	1979 Nov 01 1355:00	Super Loki	-	FLIGHT 253 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1979-W1285	2444179.13	1979 Nov 01 1505:00	Super Loki	-	FLIGHT 254 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1979-W1287	2444179.24	1979 Nov 01 1751:00	Super Loki	-	FLIGHT 255 /TH1-	-	-	-	-	PRIM	-	-	-	57	-	-
1979-W1289	2444179.35	1979 Nov 01 2030:00	Super Loki	-	FLIGHT 256 /T 1-	-	-	-	-	WI	-	-	-	69	-	-
1979-W1290	2444179.37	1979 Nov 01 2049:00	Super Loki	-	FLIGHT 257 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1979-W1387	2444212.25	1979 Dec 04 1753:00	Super Loki	-	FLIGHT 258 /TH1-	-	-	-	-	PRIM	-	-	-	53	-	-
1979-W1441	2444228.17	1979 Dec 20 1601:00	Super Loki	-	FLIGHT 259 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1980-W24	2444246.32	1980 Jan 07 1938:00	Super Loki	-	FLIGHT 260 /T 1-	-	-	-	-	WI	-	-	-	67	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-W144	2444284.17	1980 Feb 14 1612:00	Super Loki	-	FLIGHT 261 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1980-W160	2444288.30	1980 Feb 18 1906:00	Super Loki	-	FLIGHT 262 /TN1-	-	-	-	-	CLBI	-	-	-	75?	-	-
1980-W162	2444289.13	1980 Feb 19 1510:00	Super Loki	-	FLIGHT 263 /TN1-	-	-	-	-	CLBI	-	-	-	64	-	-
1980-W177	2444294.13	1980 Feb 24 1510:00	Super Loki	-	FLIGHT 264 /TN1-	-	-	-	-	CLBI	-	-	-	54	-	-
1980-W214	2444300.05	1980 Mar 01 1310:00	Super Loki	-	FLIGHT 265 /TN1-	-	-	-	-	CLBI	-	-	-	65	-	-
1980-W248	2444311.05	1980 Mar 12 1311:00	Super Loki	-	FLIGHT 266 /TN1-	-	-	-	-	CLBI	-	-	-	65	-	-
1980-W276	2444317.38	1980 Mar 18 2105:00	Super Loki	-	FLIGHT 267 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1980-W352	2444339.17	1980 Apr 09 1609:00	Super Loki	-	FLIGHT 268 /T 1-	-	-	-	-	WI	-	-	-	63	-	-
1980-W466	2444372.25	1980 May 12 1800:00	Super Loki	-	FLIGHT 269 /TH1-	-	-	-	-	PRIM	-	-	-	75?	-	-
1980-W515	2444386.42	1980 May 26 2200:00	Super Loki	-	FLIGHT 270 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1980-W568	2444400.18	1980 Jun 09 1617:00	Super Loki	-	FLIGHT 271 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1980-W572	2444400.25	1980 Jun 09 1804:00	Super Loki	-	FLIGHT 272 /TH1-	-	-	-	-	PRIM	-	-	-	69	-	-
1980-W655	2444426.27	1980 Jul 5 1830:00	Super Loki	-	FLIGHT 273	-	-	-	-	CLBI	-	-	-	66	-	-
1980-W656	2444427.09	1980 Jul 6 1403:00	Super Loki	-	FLIGHT 274	-	-	-	-	CLBI	-	-	-	62	-	-
1980-W691	2444438.07	1980 Jul 17 1347:00	Super Loki	-	FLIGHT 275 /TN1-	-	-	-	-	CLBI	-	-	-	64	-	-
1980-W707	2444444.18	1980 Jul 23 1615:00	Super Loki	-	FLIGHT 276 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1980-W711	2444444.64	1980 Jul 24 0320:00	Super Loki	-	FLIGHT 277 /TM1-	-	-	-	-	PF	-	-	-	78	-	-
1980-W713	2444445.44	1980 Jul 24 2235:00	Super Loki	-	FLIGHT 278 /TM1-	-	-	-	-	PF	-	-	-	70	-	-
1980-W714	2444445.65	1980 Jul 25 0341:00	Super Loki	-	FLIGHT 279 /TM1-	-	-	-	-	PF	-	-	-	66	-	-
1980-W791	2444472.18	1980 Aug 20 1615:00	Super Loki	-	FLIGHT 280 /T 1-	-	-	-	-	WI	-	-	-	53	-	-
1980-W936	2444519.36	1980 Oct 6 2034:00	Super Loki	-	TY1-6190	-	-	-	-	AND	-	-	-	70?	-	-
1980-Y423	2444519.48	1980 Oct 06 2327:00	Super Loki	-	TY1-6191	-	-	-	-	AND	-	-	-	84	-	-
1980-W938	2444519.69	1980 Oct 07 0428:57	Super Loki	-	TY1-6878	-	-	-	-	AND	-	-	-	60?	-	-
1980-Y424	2444519.75	1980 Oct 07 0601:52	Super Loki	-	TY1-6192	-	-	-	-	AND	-	-	-	80?	-	-
1980-W947	2444521.13	1980 Oct 08 1503:00	Super Loki	-	FLIGHT 282 /TN1-	-	-	-	-	CLBI	-	-	-	71	-	-
1980-Y429	2444521.55	1980 Oct 09 0115:00	Super Loki	-	TY1-6193	-	-	-	-	AND	-	-	-	80?	-	-
1980-Y431	2444522.42	1980 Oct 09 2202:00	Super Loki	-	TY1-6194	-	-	-	-	AND	-	-	-	85?	-	-
1980-W951	2444523.40	1980 Oct 10 2129:12	Super Loki	-	TY1-6195	-	-	-	-	AND	-	-	-	67?	-	-
1980-W953	2444524.36	1980 Oct 11 2033:20	Super Loki	-	TY1-6196	-	-	-	-	AND	-	-	-	69?	-	-
1980-Y432	2444524.44	1980 Oct 11 2231:00	Super Loki	-	TY1-6197	-	-	-	-	AND	-	-	-	81?	-	-
1980-W954	2444524.48	1980 Oct 11 2328:30	Super Loki	-	TY1-7128	-	-	-	-	AND	-	-	-	65	-	-
1980-Y433	2444524.52	1980 Oct 12 0026:00	Super Loki	-	TY1-6422	-	-	-	-	AND	-	-	-	82?	-	-
1980-A38	2444528.31	1980 Oct 15 1923:00	Super Loki	-	TY1-6423	-	-	-	-	AND	-	-	-	46?	-	-
1980-W965	2444528.37	1980 Oct 15 2053:00	Super Loki	-	TY1-6424	-	-	-	-	AND	-	-	-	67?	-	-
1980-Y439	2444528.46	1980 Oct 15 2304:00	Super Loki	-	TY1-6425	-	-	-	-	AND	-	-	-	80?	-	-
1980-W969	2444529.20	1980 Oct 16 1645:00	Super Loki	-	FLIGHT 284 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1980-W970	2444529.26	1980 Oct 16 1820:00	Super Loki	-	FLIGHT 285 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1980-W976	2444530.59	1980 Oct 18 0207:14	Super Loki	-	TY1-7129	-	-	-	-	AND	-	-	-	52?	-	-
1980-Y441	2444530.64	1980 Oct 18 0317:35	Super Loki	-	TY1-6874	-	-	-	-	AND	-	-	-	84?	-	-
1980-W978	2444530.66	1980 Oct 18 0352:00	Super Loki	-	TY1-7130	-	-	-	-	AND	-	-	-	63	-	-
1980-W979	2444530.69	1980 Oct 18 0435:02	Super Loki	-	TY1-6875	-	-	-	-	AND	-	-	-	75?	-	-
1980-Y514	2444551.42	1980 Nov 7 2200	Super Loki	-	-	EBC-C E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y515	2444551.45	1980 Nov 7 2250	Super Loki	-	PWN-12A?	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y516	2444553.51	1980 Nov 10 0010	Super Loki	-	-	EBC-C E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y517	2444553.54	1980 Nov 10 0100	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y518	2444553.60	1980 Nov 10 0218	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y519	2444554.42	1980 Nov 10 2200	Super Loki	-	-	EBC-C E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y520	2444554.49	1980 Nov 10 2346	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y521	2444554.54	1980 Nov 11 0101:30	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y522	2444554.58	1980 Nov 11 0155:30	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y524	2444554.60	1980 Nov 11 0226:30	Super Loki	-	-	EBC-C E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y525	2444555.51	1980 Nov 12 0020:30	Super Loki	-	-	EBC-C E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y526	2444555.55	1980 Nov 12 0107:00	Super Loki	-	-	EBC-C E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y527	2444559.44	1980 Nov 15 2235:30	Super Loki	-	-	EBC-B E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y528	2444559.72	1980 Nov 16 0512:30	Super Loki	-	-	EBC-B E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y529	2444559.77	1980 Nov 16 0633:00	Super Loki	-	-	EBC-B E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y530	2444559.81	1980 Nov 16 0722:00	Super Loki	-	-	EBC-B E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y531	2444559.83	1980 Nov 16 0751:30	Super Loki	-	-	EBC-B E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y532	2444559.85	1980 Nov 16 0823:00	Super Loki	-	-	EBC-B E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y533	2444571.45	1980 Nov 27 2245:30	Super Loki	-	-	EBC-A E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y534	2444571.53	1980 Nov 28 0047:00	Super Loki	-	-	EBC-A E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y535	2444571.65	1980 Nov 28 0329:00	Super Loki	-	-	EBC-A E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y536	2444571.68	1980 Nov 28 0419:10	Super Loki	-	-	EBC-A E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y537	2444574.52	1980 Dec 1 0024:00	Super Loki	-	-	EBC-A2 E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y538	2444574.57	1980 Dec 1 0139:00	Super Loki	-	-	EBC-A2 E9A	-	-	-	ESR	L	-	-	104	-	-
1980-Y539	2444574.61	1980 Dec 1 0233:30	Super Loki	-	-	EBC-A2 E9B	-	-	-	ESR	L	-	-	85	-	-
1980-Y540	2444574.64	1980 Dec 1 0324:00	Super Loki	-	-	EBC-A2 E9B	-	-	-	ESR	L	-	-	85	-	-
1980-W1086	2444577.26	1980 Dec 03 1812:00	Super Loki	-	FLIGHT 286 /TH1-	-	-	-	-	PRIM	-	-	-	66	-	-
1981-W33	2444627.18	1981 Jan 22 1617:00	Super Loki	-	FLIGHT 289 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1981-W47	2444638.26	1981 Feb 02 1808:00	Super Loki	-	FLIGHT 290 /TH1-	-	-	-	-	PRIM	-	-	-	65	-	-
1981-W122	2444662.19	1981 Feb 26 1628:00	Super Loki	-	FLIGHT 291 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1981-W125	2444662.36	1981 Feb 26 2045:00	Super Loki	-	FLIGHT 292 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1981-A19	2444809.29	1981 Jul 23 1900?	Super Loki	-	-	Ozone	-	-	-	WI	-	-	-	70?	-	-
1981-W504	2444809.30	1981 Jul 23 1918:59	Super Loki	-	-	Ozone	-	-	-	WI	-	-	-	75	-	-
1981-W608	2444861.17	1981 Sep 13 1605	Super Loki	-	F-293/T 1-6617	-	-	-	-	WI	-	-	-	66	-	-
1981-W658	2444883.17	1981 Oct 05 1610:00	Super Loki	-	FLIGHT 294 /T 1-	-	-	-	-	WI	-	-	-	67	-	-
1981-W727	2444921.27	1981 Nov 12 1829:00	Super Loki	-	FLIGHT 295 /T 1-	-	-	-	-	WI	-	-	-	75?	-	-
1981-S247	2444934.11	1981 Nov 25 1443	Super Loki	-	INTA SLD-8101	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1981-S248	2444955.11	1981 Dec 16 1434	Super Loki	-	INTA SLD-8102	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1981-S249	2444961.11	1981 Dec 22 1440	Super Loki	-	INTA SLD-8103	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-S271	2444978.08	1982 Jan 8 1402	Super Loki	-	INTA SLD-8201	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-S272	2444988.09	1982 Jan 18 1416	Super Loki	-	INTA SLD-8202	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-S273	2444990.10	1982 Jan 20 1429	Super Loki	-	INTA SLD-8203	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-W43	2444990.17	1982 Jan 20 1609:00	Super Loki	-	FLIGHT 296 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1982-W55	2444995.17	1982 Jan 25 1600:00	Super Loki	-	FLIGHT 297 /TN1-	-	-	-	-	CLBI	-	-	-	67	-	-
1982-W56	2444995.19	1982 Jan 25 1640:00	Super Loki	-	FLIGHT 298 /TN1-	-	-	-	-	CLBI	-	-	-	65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1982-W58	2444995.27	1982 Jan 25 1830:00	Super Loki	-	FLIGHT 299 /TN1-	-	-	-	-	CLBI	-	-	-	62	-	-
1982-S274	2444997.10	1982 Jan 27 1423	Super Loki	-	INTA SLD-8204	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-W82	2445001.14	1982 Jan 31 1523:00	Super Loki	-	FLIGHT 300 /TN1-	-	-	-	-	CLBI	-	-	-	65	-	-
1982-S275	2445006.10	1982 Feb 5 1423	Super Loki	-	INTA SLD-8205	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-S276	2445009.10	1982 Feb 8 1418	Super Loki	-	INTA SLD-8206	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-S277	2445016.11	1982 Feb 15 1442	Super Loki	-	INTA SLD-8207	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1982-W114	2445016.21	1982 Feb 15 1708:00	Super Loki	-	FLIGHT 301 /TZ1-	-	-	-	-	VCM	-	-	-	70	-	-
1982-W115	2445016.30	1982 Feb 15 1915:00	Super Loki	-	FLIGHT 302 /TZ1-	-	-	-	-	VCM	-	-	-	69	-	-
1982-W124	2445018.30	1982 Feb 17 1907:00	Super Loki	-	FLIGHT 304 /TZ1-	-	-	-	-	VCM	-	-	-	70	-	-
1982-W135	2445022.20	1982 Feb 21 1653:00	Super Loki	-	FLIGHT 305 /TZ1-	-	-	-	-	VCM	-	-	-	70	-	-
1982-W140	2445024.30	1982 Feb 23 1911:00	Super Loki	-	T 1-0105	-	-	-	-	WI	-	-	-	79	-	-
1982-Y59	2445025.29	1982 Feb 24 1900:00	Super Loki	-	T 1-0106	-	-	-	-	WI	-	-	-	82	-	-
1982-W146	2445026.29	1982 Feb 25 1900:00	Super Loki	-	T 1-0107	-	-	-	-	WI	-	-	-	74	-	-
1982-W150	2445027.20	1982 Feb 26 1651:00	Super Loki	-	FLIGHT 306 /TZ1-	-	-	-	-	VCM	-	-	-	75	-	-
1982-Y60	2445027.31	1982 Feb 26 1920:00	Super Loki	-	T 1-0108	-	-	-	-	WI	-	-	-	80	-	-
1982-W153	2445029.32	1982 Feb 28 1946:00	Super Loki	-	T 1-0112	-	-	-	-	WI	-	-	-	79	-	-
1982-Y61	2445030.33	1982 Mar 01 2000:00	Super Loki	-	T 1-0113	-	-	-	-	WI	-	-	-	80	-	-
1982-Y62	2445031.33	1982 Mar 02 1955:00	Super Loki	-	T 1-0116	-	-	-	-	WI	-	-	-	81	-	-
1982-Y66	2445032.29	1982 Mar 03 1900:00	Super Loki	-	T 1-0117	-	-	-	-	WI	-	-	-	83	-	-
1982-W158	2445033.29	1982 Mar 04 1900:00	Super Loki	-	T 1-0118	-	-	-	-	WI	-	-	-	79	-	-
1982-Y70	2445034.29	1982 Mar 05 1903:00	Super Loki	-	T 1-0119	-	-	-	-	WI	-	-	-	81	-	-
1982-Y72	2445037.30	1982 Mar 08 1908:00	Super Loki	-	T 1-0122	-	-	-	-	WI	-	-	-	81	-	-
1982-W168	2445038.29	1982 Mar 09 1900:00	Super Loki	-	T 1-0123	-	-	-	-	WI	-	-	-	78	-	-
1982-W171	2445039.29	1982 Mar 10 1900:00	Super Loki	-	T 1-0124	-	-	-	-	WI	-	-	-	76	-	-
1982-W173	2445040.29	1982 Mar 11 1900:00	Super Loki	-	T 1-0125	-	-	-	-	WI	-	-	-	79	-	-
1982-W175	2445041.29	1982 Mar 12 1900:00	Super Loki	-	T 1-0126	-	-	-	-	WI	-	-	-	79	-	-
1982-W182	2445045.29	1982 Mar 16 1900:00	Super Loki	-	T 1-0130	-	-	-	-	WI	-	-	-	76	-	-
1982-W184	2445046.31	1982 Mar 17 1923:00	Super Loki	-	T 1-0131	-	-	-	-	WI	-	-	-	79	-	-
1982-W186	2445047.29	1982 Mar 18 1901:00	Super Loki	-	T 1-0132	-	-	-	-	WI	-	-	-	60	-	-
1982-W187	2445048.29	1982 Mar 19 1900:00	Super Loki	-	T 1-0133	-	-	-	-	WI	-	-	-	76	-	-
1982-W194	2445051.31	1982 Mar 22 1924:00	Super Loki	-	T 1-0290	-	-	-	-	WI	-	-	-	75	-	-
1982-W205	2445053.29	1982 Mar 24 1901:00	Super Loki	-	T 1-0292	-	-	-	-	WI	-	-	-	74	-	-
1982-W218	2445058.09	1982 Mar 29 1405:00	Super Loki	-	T 1-0283	-	-	-	-	WI	-	-	-	75	-	-
1982-W219	2445058.12	1982 Mar 29 1457:00	Super Loki	-	T 1-0293	-	-	-	-	WI	-	-	-	71	-	-
1982-Y121	2445059.06	1982 Mar 30 1330:00	Super Loki	-	T 1-0294	-	-	-	-	WI	-	-	-	97	-	-
1982-W225	2445059.10	1982 Mar 30 1420:00	Super Loki	-	T 1-0297	-	-	-	-	WI	-	-	-	65	-	-
1982-W253	2445080.17	1982 Apr 20 1559:00	Super Loki	-	FLIGHT 307 /T 1-	-	-	-	-	WI	-	-	-	64	-	-
1982-W254	2445080.20	1982 Apr 20 1641:00	Super Loki	-	FLIGHT 308 /T 1-	-	-	-	-	WI	-	-	-	65	-	-
1982-W255	2445080.20	1982 Apr 20 1646:00	Super Loki	-	FLIGHT 309 /T 1-	-	-	-	-	WI	-	-	-	66	-	-
1982-W256	2445080.22	1982 Apr 20 1717:00	Super Loki	-	FLIGHT 310 /T 1-	-	-	-	-	WI	-	-	-	63	-	-
1982-W300	2445114.21	1982 May 24 1700:00	Super Loki	-	T 1-0298	-	-	-	-	WI	-	-	-	61	-	-
1982-W320	2445129.11	1982 Jun 08 1437:00	Super Loki	-	T 1-0301	-	-	-	-	WI	-	-	-	64	-	-
1982-Y217	2445150.13	1982 Jun 29 1510:00	Super Loki	-	T 1-0302	-	-	-	-	WI	-	-	-	95	-	-
1982-Y214	2445149.99	1982 Jun 29 1145:00	Super Loki	-	T 1-0303	-	-	-	-	WI	-	-	-	95	-	-
1982-Y237	2445154.94	1982 Jul 04 1040:00	Super Loki	-	T 1-0306	-	-	-	-	WI	-	-	-	97	-	-
1982-Y238	2445154.96	1982 Jul 04 1100:00	Super Loki	-	T 1-0307	-	-	-	-	WI	-	-	-	95	-	-
1982-W347	2445154.97	1982 Jul 04 1120:00	Super Loki	-	T 1-0308	-	-	-	-	WI	-	-	-	66	-	-
1982-W516	2445185.52	1982 Aug 4 0031:30	Super Loki	-	SuLo 11/1	CAMP Datasonde	-	-	-	ESR	L	-	-	84	-	-
1982-W517	2445193.53	1982 Aug 12 0044:00	Super Loki	-	SuLo 11/2	CAMP Datasonde	-	-	-	ESR	L	-	-	84	-	-
1982-W400	2445216.28	1982 Sep 03 1845:00	Super Loki	-	T 1-0309	-	-	-	-	WI	-	-	-	74	-	-
1982-W405	2445223.13	1982 Sep 10 1505:00	Super Loki	-	T 1-0311	-	-	-	-	WI	-	-	-	72	-	-
1982-W408	2445229.08	1982 Sep 16 1400:00	Super Loki	-	T 1-0312	-	-	-	-	WI	-	-	-	73	-	-
1982-W419	2445242.29	1982 Sep 29 1900:00	Super Loki	-	T 1-0310	-	-	-	-	WI	-	-	-	77	-	-
1982-Y376	2445289.87	1982 Nov 16 0856	Super Loki	-	CONDOR Test	-	-	-	-	WI	-	-	-	86	-	-
1982-Y377	2445289.88	1982 Nov 16 0911	Super Loki	-	CONDOR Test	-	-	-	-	WI	-	-	-	84	-	-
1982-Y378	2445289.90	1982 Nov 16 0931	Super Loki	-	CONDOR Test	-	-	-	-	WI	-	-	-	88	-	-
1982-W465	2445289.91	1982 Nov 16 0946:00	Super Loki	-	T 1-0448	-	-	-	-	WI	-	-	-	78	-	-
1982-Y393	2445297.87	1982 Nov 24 0847:00	Super Loki	-	T 1-0455	-	-	-	-	WI	-	-	-	110	-	-
1982-Y394	2445297.88	1982 Nov 24 0903:00	Super Loki	-	T 1-0456	-	-	-	-	WI	-	-	-	117	-	-
1982-Y395	2445297.91	1982 Nov 24 0950:00	Super Loki	-	T 1-0457	-	-	-	-	WI	-	-	-	105	-	-
1982-Y424	2445323.85	1982 Dec 20 0830:00	Super Loki	-	T 1-0466	-	-	-	-	WI	-	-	-	97	-	-
1982-Y425	2445323.88	1982 Dec 20 0908:00	Super Loki	-	T 1-0467	-	-	-	-	WI	-	-	-	91	-	-
1983-W01	2445339.85	1983 Jan 05 0827:00	Super Loki	-	T 1-0470	-	-	-	-	WI	-	-	-	78	-	-
1983-S274	2445347.03	1983 Jan 12 1241	Super Loki	-	INTA SLD-8301	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-W09	2445348.29	1983 Jan 13 1902:59	Super Loki	-	Orion support	Arcasonde	-	-	-	WI	-	-	-	67	-	-
1983-S275	2445356.06	1983 Jan 21 1327	Super Loki	-	INTA SLD-8302	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S276	2445363.02	1983 Jan 28 1230	Super Loki	-	INTA SLD-8303	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S277	2445365.02	1983 Jan 30 1226	Super Loki	-	INTA SLD-8304	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S278	2445367.02	1983 Feb 1 1231	Super Loki	-	INTA SLD-8305	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S279	2445370.02	1983 Feb 4 1228	Super Loki	-	INTA SLD-8306	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-Y32	2445372.89	1983 Feb 07 0925:00	Super Loki	-	T 1-0507	-	-	-	-	WI	-	-	-	111	-	-
1983-S280	2445375.02	1983 Feb 9 1234	Super Loki	-	INTA SLD-8307	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S281	2445382.00	1983 Feb 16 1202	Super Loki	-	INTA SLD-8308	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-Y39	2445380.91	1983 Feb 15 0944:00	Super Loki	-	T 1-0512	-	-	-	-	WI	-	-	-	109	-	-
1983-S282	2445383.06	1983 Feb 17 1321	Super Loki	-	INTA SLD-8309	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-S283	2445385.01	1983 Feb 19 1215	Super Loki	-	INTA SLD-8310	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-Y47	2445388.90	1983 Feb 23 0938:00	Super Loki	-	T 1-0488	-	-	-	-	WI	-	-	-	102	-	-
1983-Y69	2445402.14	1983 Mar 08 1515:00	Super Loki	-	TU1-0380 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	82	-	-
1983-W64	2445402.30	1983 Mar 08 1917:00	Super Loki	-	TU1-0388 PWN-11A	CONDOR Datasonde	-	-	-	CHI	PLOB	-	-	65	-	-
1983-S217	2445402.60	1983 Mar 9 0225	Super Loki	-	TU1-0381 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-Y77	2445402.61	1983 Mar 09 0238:00	Super Loki	-	TU1-0358 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	88	-	-
1983-Y78	2445402.66	1983 Mar 09 0352:00	Super Loki	-	TU1-0389 PWN-11A	CONDOR Datasonde	-	-	-	CHI	PLOB	-	-	81	-	-
1983-Y79	2445402.71	1983 Mar 09 0500:00	Super Loki	-	TU1-0382 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	82	-	-
1983-S218	2445402.72	1983 Mar 9 0520	Super Loki	-	TU1-0383 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	80?	-	-
1983-W66	2445402.73	1983 Mar 09 0532:00	Super Loki	-	TU1-0359 PWN-11A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	79	-	-
1983-S219	2445402.74	1983 Mar 9 0549	Super Loki	-	TU1-0383 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	80?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1983-Y80	2445402.76	1983 Mar 09 0610:00	Super Loki	-	TU1-0385 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	88	-	-
1983-Y81	2445402.82	1983 Mar 09 0746:00	Super Loki	-	TU1-0390 PWN-11A	CONDOR Datasonde	-	-	-	CHI	PLOB	-	-	80	-	-
1983-Y82	2445402.85	1983 Mar 09 0820:00	Super Loki	-	TU1-0386 PWN-12A	CONDOR Sphere	-	-	-	CHI	PLOB	-	-	88	-	-
1983-Y83	2445402.89	1983 Mar 09 0920:00	Super Loki	-	TU1-0361 PWN-11A	CONDOR Datasonde	-	-	-	CHI	PLOB	-	-	85	-	-
1983-W93	2445417.29	1983 Mar 23 1852:00	Super Loki	-	TU1-0391	CONDOR	-	-	-	CHI	PLOB	-	-	78	-	-
1983-Y139	2445434.10	1983 Apr 09 1430:00	Super Loki	-	T 1-0460	-	-	-	-	WI	-	-	-	109	-	-
1983-Y140	2445434.12	1983 Apr 09 1450:00	Super Loki	-	T 1-0459	-	-	-	-	WI	-	-	-	81	-	-
1983-Y209	2445509.98	1983 Jun 24 1130:00	Super Loki	-	T 1-0548	-	-	-	-	WI	-	-	-	110	-	-
1983-Y210	2445510.00	1983 Jun 24 1201:00	Super Loki	-	T 1-0547	-	-	-	-	WI	-	-	-	81	-	-
1983-M58	2445570.18	1983 Aug 23 1625	Super Loki	-	-	ROCOZ-A 316	-	-	-	WI	-	-	-	75?	-	-
1983-M59	2445570.21	1983 Aug 23 1700?	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	75?	-	-
1983-Y275	2445582.81	1983 Sep 05 0730:00	Super Loki	-	T 1-0663	-	-	-	-	WI	-	-	-	107	-	-
1983-W255	2445582.83	1983 Sep 05 0757:00	Super Loki	-	T 1-0664	-	-	-	-	WI	-	-	-	76	-	-
1983-S284	2445586.85	1983 Sep 9 0831	Super Loki	-	INTA SLD-8311	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-S285	2445587.96	1983 Sep 10 1103	Super Loki	-	INTA SLD-8312	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-S286	2445591.64	1983 Sep 14 0321	Super Loki	-	INTA SLD-8313	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-S287	2445591.96	1983 Sep 14 1105	Super Loki	-	INTA SLD-8314	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-S288	2445598.03	1983 Sep 20 1243	Super Loki	-	INTA SLD-8315	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-W277	2445598.51	1983 Sep 21 0015:00	Super Loki	-	T 1-0674	-	-	-	-	WI	-	-	-	75	-	-
1983-S289	2445601.96	1983 Sep 24 1100	Super Loki	-	INTA SLD-8316	GLOBUS	-	-	-	ELAR	-	-	-	100?	-	-
1983-W281	2445604.14	1983 Sep 26 1520:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1983-M60	2445604.23	1983 Sep 26 1732	Super Loki	-	-	ROCOZ-A 317	-	-	-	WI	-	-	-	75?	-	-
1983-M61	2445604.24	1983 Sep 26 1739	Super Loki	-	-	ROCOZ-A 318	-	-	-	WI	-	-	-	75?	-	-
1983-M62	2445604.26	1983 Sep 26 1817	Super Loki	-	-	ROCOZ-A 319	-	-	-	WI	-	-	-	75?	-	-
1983-M63	2445604.28	1983 Sep 26 1845	Super Loki	-	-	ROCOZ-A 320	-	-	-	WI	-	-	-	75?	-	-
1983-W301	2445635.14	1983 Oct 27 1525:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1983-M64	2445635.18	1983 Oct 27 1624	Super Loki	-	-	ROCOZ-A 321	-	-	-	WI	-	-	-	75?	-	-
1983-M65	2445635.19	1983 Oct 27 1631	Super Loki	-	-	ROCOZ-A 322	-	-	-	WI	-	-	-	75?	-	-
1983-M66	2445635.22	1983 Oct 27 1720	Super Loki	-	-	ROCOZ-A 323	-	-	-	WI	-	-	-	75?	-	-
1983-M67	2445635.25	1983 Oct 27 1754	Super Loki	-	-	ROCOZ-A 324	-	-	-	WI	-	-	-	75?	-	-
1983-Y292	2445655.89	1983 Nov 17 0926:00	Super Loki	-	T 1-0763	-	-	-	-	WI	-	-	-	81	-	-
1983-Y293	2445657.91	1983 Nov 19 0945:00	Super Loki	-	T 1-0794	-	-	-	-	WI	-	-	-	80	-	-
1983-W324	2445661.15	1983 Nov 22 1530:00	Super Loki	-	T 1-0771	-	-	-	-	WI	-	-	-	74	-	-
1983-M68	2445661.19	1983 Nov 22 1630	Super Loki	-	-	ROCOZ-A 325	-	-	-	WI	-	-	-	75?	-	-
1983-W333	2445669.39	1983 Nov 30 2120	Super Loki	-	MAP/WINE M-M	M-D 01L	-	-	-	MRL	-	-	-	75?	-	-
1983-Y297	2445672.33	1983 Dec 3 2000:00	Super Loki	-	MAP/WINE	M-D 01A	-	-	-	AND	-	-	-	80	-	-
1983-W337	2445672.43	1983 Dec 3 2225	Super Loki	-	MAP/WINE M-M	M-D 02L	-	-	-	MRL	-	-	-	75?	-	-
1983-W339	2445674.92	1983 Dec 6 1007:00	Super Loki	-	MAP/WINE	M-C 1	-	-	-	AND	-	-	-	75?	-	-
1983-W340	2445674.95	1983 Dec 6 1049:30	Super Loki	-	MAP/WINE	M-C 2	-	-	-	AND	-	-	-	75?	-	-
1983-W346	2445676.22	1983 Dec 7 1712:00	Super Loki	-	MAP/WINE	M-C 3	-	-	-	AND	-	-	-	75?	-	-
1983-W347	2445676.28	1983 Dec 7 1849:00	Super Loki	-	MAP/WINE	M-C 4	-	-	-	AND	-	-	-	75?	-	-
1983-Y301	2445676.33	1983 Dec 7 1955:00	Super Loki	-	MAP/WINE	M-D 02A	-	-	-	AND	-	-	-	85	-	-
1983-W348	2445676.35	1983 Dec 7 2027	Super Loki	-	MAP/WINE M-M	M-D 03L	-	-	-	MRL	-	-	-	75?	-	-
1983-Y303	2445677.27	1983 Dec 08 1825:00	Super Loki	-	T 1-0797	-	-	-	-	WI	-	-	-	109	-	-
1983-W352	2445677.28	1983 Dec 08 1845:00	Super Loki	-	T 1-0798	-	-	-	-	WI	-	-	-	77	-	-
1983-W361	2445678.16	1983 Dec 09 1550:00	Super Loki	-	T 1-0767	-	-	-	-	WI	-	-	-	77	-	-
1983-M69	2445678.20	1983 Dec 9 1650	Super Loki	-	-	ROCOZ-A 326	-	-	-	WI	-	-	-	75?	-	-
1983-W362	2445679.34	1983 Dec 10 2010	Super Loki	-	MAP/WINE M-M	M-D 04L	-	-	-	MRL	-	-	-	75?	-	-
1983-Y307	2445679.40	1983 Dec 10 2134:00	Super Loki	-	MAP/WINE	M-D 03A	-	-	-	AND	-	-	-	83	-	-
1983-S290	2445682.02	1983 Dec 13 1223	Super Loki	-	INTA SLD-8317	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1983-W366	2445684.17	1983 Dec 15 1558:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	70	-	-
1983-M70	2445684.20	1983 Dec 15 1650	Super Loki	-	-	ROCOZ-A 327	-	-	-	WI	-	-	-	75?	-	-
1983-Y311	2445684.33	1983 Dec 15 2000:00	Super Loki	-	MAP/WINE	M-D 04A	-	-	-	AND	-	-	-	88	-	-
1983-Y312	2445684.37	1983 Dec 15 2046:00	Super Loki	-	MAP/WINE	M-D 05A	-	-	-	AND	-	-	-	83	-	-
1983-W367	2445684.38	1983 Dec 15 2100	Super Loki	-	MAP/WINE M-M	M-D 05L	-	-	-	MRL	-	-	-	75?	-	-
1983-Y315	2445686.33	1983 Dec 17 1950:00	Super Loki	-	MAP/WINE	M-D 06A	-	-	-	AND	-	-	-	82	-	-
1983-Y319	2445690.29	1983 Dec 21 1900:00	Super Loki	-	MAP/WINE	M-D 07A	-	-	-	AND	-	-	-	84	-	-
1983-W374	2445690.31	1983 Dec 21 1928	Super Loki	-	MAP/WINE M-M	M-D 06L	-	-	-	MRL	-	-	-	75?	-	-
1983-W375	2445690.39	1983 Dec 21 2122	Super Loki	-	MAP/WINE M-M	M-D 07L	-	-	-	MRL	-	-	-	75?	-	-
1983-W380	2445696.86	1983 Dec 28 0832:00	Super Loki	-	MAP/WINE	M-D 08A	-	-	-	AND	-	-	-	75?	-	-
1983-W381	2445696.93	1983 Dec 28 1019:00	Super Loki	-	MAP/WINE	M-D 09A	-	-	-	AND	-	-	-	75?	-	-
1983-W382	2445698.33	1983 Dec 29 1950	Super Loki	-	MAP/WINE M-M	M-D 08L	-	-	-	MRL	-	-	-	75?	-	-
1983-Y323	2445700.16	1983 Dec 31 1556:00	Super Loki	-	MAP/WINE	M-D 10A	-	-	-	AND	-	-	-	88	-	-
1983-W383	2445700.21	1983 Dec 31 1700:00	Super Loki	-	MAP/WINE	M-D 11A	-	-	-	AND	-	-	-	72	-	-
1984-W02	2445704.33	1984 Jan 4 2000:00	Super Loki	-	MAP/WINE	M-D 12A	-	-	-	AND	-	-	-	78	-	-
1984-W03	2445704.37	1984 Jan 4 2058	Super Loki	-	MAP/WINE M-M	M-D 09L	-	-	-	MRL	-	-	-	75?	-	-
1984-Y04	2445706.37	1984 Jan 6 2052	Super Loki	-	MAP/WINE	M-C 5	-	-	-	AND	-	-	-	96	-	-
1984-Y06	2445706.42	1984 Jan 6 2210	Super Loki	-	MAP/WINE	M-C 6	-	-	-	AND	-	-	-	85	-	-
1984-W06	2445706.45	1984 Jan 6 2244	Super Loki	-	MAP/WINE	M-D 13A	-	-	-	AND	-	-	-	79	-	-
1984-W07	2445707.33	1984 Jan 7 2000	Super Loki	-	MAP/WINE M-M	M-D 10L	-	-	-	MRL	-	-	-	75?	-	-
1984-S240	2445710.04	1984 Jan 10 1301	Super Loki	-	INTA SLD-8401	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-Y10	2445712.28	1984 Jan 12 1837	Super Loki	-	MAP/WINE	M-D 14A	-	-	-	AND	-	-	-	88	-	-
1984-Y11	2445712.31	1984 Jan 12 1920	Super Loki	-	MAP/WINE	M-D 15A	-	-	-	AND	-	-	-	84	-	-
1984-W15	2445712.35	1984 Jan 12 2019	Super Loki	-	MAP/WINE	M-D 16A	-	-	-	AND	-	-	-	78	-	-
1984-W16	2445712.42	1984 Jan 12 2206	Super Loki	-	MAP/WINE M-M	M-D 11L	-	-	-	MRL	-	-	-	75?	-	-
1984-Y14	2445713.35	1984 Jan 13 2018	Super Loki	-	MAP/WINE	M-C 7	-	-	-	AND	-	-	-	87	-	-
1984-W17	2445713.47	1984 Jan 13 2316	Super Loki	-	MAP/WINE	M-D 17A	-	-	-	AND	-	-	-	74	-	-
1984-W18	2445715.35	1984 Jan 15 2020	Super Loki	-	MAP/WINE M-M	M-D 12L	-	-	-	MRL	-	-	-	75?	-	-
1984-W22	2445718.01	1984 Jan 18 1215	Super Loki	-	-	T 1-0851	-	-	-	WI	-	-	-	74	-	-
1984-S241	2445718.04	1984 Jan 18 1253	Super Loki	-	INTA SLD-8402	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-W25	2445718.33	1984 Jan 18 2000	Super Loki	-	MAP/WINE	M-D 18A	-	-	-	AND	-	-	-	76	-	-
1984-Y26	2445720.98	1984 Jan 21 1131	Super Loki	-	MAP/WINE	M-C 8	-	-	-	AND	-	-	-	84	-	-
1984-S242	2445721.04	1984 Jan 21 1252	Super Loki	-	INTA SLD-8403	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-Y29	2445721.05	1984 Jan 21 1308	Super Loki	-	MAP/WINE	M-C 9	-	-	-	AND	-	-	-	82	-	-
1984-Y30	2445721.08	1984 Jan 21 1349	Super Loki	-	MAP/WINE	M-C 10	-	-	-	AND	-	-	-	85	-	-
1984-W28	2445721.11	1984 Jan 21 1444	Super Loki	-	MAP/WINE	M-D 19A	-	-	-	AND	-	-	-	73	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-S243	2445724.05	1984 Jan 24 1316	Super Loki	-	INTA SLD-8404	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-W34	2445724.31	1984 Jan 24 1931	Super Loki	-	MAP/WINE	M-D 20A	-	-	-	AND	-	-	-	72	-	-
1984-W37	2445725.28	1984 Jan 25 1845	Super Loki	-	MAP/WINE	M-D 21A	-	-	-	AND	-	-	-	78	-	-
1984-W42	2445728.23	1984 Jan 28 1730	Super Loki	-	MAP/WINE	M-D 22A	-	-	-	AND	-	-	-	74	-	-
1984-S244	2445730.08	1984 Jan 30 1357	Super Loki	-	INTA SLD-8405	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-W43	2445731.18	1984 Jan 31 1622	Super Loki	-	MAP/WINE	M-D 23A	-	-	-	AND	-	-	-	61	-	-
1984-Y38	2445731.23	1984 Jan 31 1731	Super Loki	-	MAP/WINE	M-C 11	-	-	-	AND	-	-	-	87	-	-
1984-Y40	2445731.31	1984 Jan 31 1920	Super Loki	-	MAP/WINE	M-C 12	-	-	-	AND	-	-	-	87	-	-
1984-Y44	2445734.33	1984 Feb 3 2000	Super Loki	-	MAP/WINE	M-D 24A	-	-	-	AND	-	-	-	80	-	-
1984-W51	2445737.33	1984 Feb 6 2000	Super Loki	-	MAP/WINE	M-D 25A	-	-	-	AND	-	-	-	77	-	-
1984-W56	2445739.54	1984 Feb 9 0052	Super Loki	-	MAP/WINE	M-D 26A	-	-	-	AND	-	-	-	75	-	-
1984-Y50	2445739.59	1984 Feb 9 0216	Super Loki	-	MAP/WINE	M-C 13	-	-	-	AND	-	-	-	90	-	-
1984-W58	2445740.21	1984 Feb 9 1703:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	75	-	-
1984-M78	2445740.23	1984 Feb 9 1730?	Super Loki	-	-	ROCOZ-A 328	-	-	-	WI	-	-	-	75?	-	-
1984-M79	2445740.23	1984 Feb 9 1730?	Super Loki	-	-	ROCOZ-A 329	-	-	-	WI	-	-	-	75?	-	-
1984-W59	2445740.31	1984 Feb 9 1922:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-
1984-W61	2445740.55	1984 Feb 10 0107	Super Loki	-	MAP/WINE	M-D 27A	-	-	-	AND	-	-	-	75	-	-
1984-Y53	2445740.58	1984 Feb 10 0151	Super Loki	-	MAP/WINE	M-C 14	-	-	-	AND	-	-	-	85	-	-
1984-Y55	2445740.68	1984 Feb 10 0420	Super Loki	-	MAP/WINE	M-C 15	-	-	-	AND	-	-	-	85	-	-
1984-Y58	2445742.00	1984 Feb 11 1200:00	Super Loki	-	T 1-0784	-	-	-	-	WI	-	-	-	109	-	-
1984-W71	2445742.33	1984 Feb 11 2000	Super Loki	-	MAP/WINE	M-D 28A	-	-	-	AND	-	-	-	66	-	-
1984-W73	2445744.33	1984 Feb 13 2000	Super Loki	-	MAP/WINE	M-D 29A	-	-	-	AND	-	-	-	77	-	-
1984-W77	2445746.60	1984 Feb 16 0228	Super Loki	-	MAP/WINE	M-D 30A	-	-	-	AND	-	-	-	74	-	-
1984-Y66	2445748.53	1984 Feb 18 0047	Super Loki	-	MAP/WINE	M-C 16	-	-	-	AND	-	-	-	87	-	-
1984-W80	2445748.58	1984 Feb 18 0149	Super Loki	-	MAP/WINE	M-D 31A	-	-	-	AND	-	-	-	76	-	-
1984-Y67	2445748.61	1984 Feb 18 0238	Super Loki	-	MAP/WINE	M-C 17	-	-	-	AND	-	-	-	87	-	-
1984-Y69	2445748.66	1984 Feb 18 0355	Super Loki	-	MAP/WINE	M-C 18	-	-	-	AND	-	-	-	82	-	-
1984-W81	2445749.93	1984 Feb 19 1026	Super Loki	-	MAP/WINE	M-D 32A	-	-	-	AND	-	-	-	67	-	-
1984-W82	2445749.99	1984 Feb 19 1152:00	Super Loki	-	M-D 033A	-	-	-	-	AND	-	-	-	77	-	-
1984-W85	2445752.34	1984 Feb 21 2005:00	Super Loki	-	M-D 034A	-	-	-	-	AND	-	-	-	77	-	-
1984-Y78	2445754.21	1984 Feb 23 1700:00	Super Loki	-	M-D 035A	-	-	-	-	AND	-	-	-	82	-	-
1984-S245	2445789.00	1984 Mar 29 1205	Super Loki	-	INTA SLD-8406	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-Y88	2445804.05	1984 Apr 13 1314:00	Super Loki	-	T 1-0883	-	-	-	-	WI	-	-	-	110	-	-
1984-W149	2445804.08	1984 Apr 13 1348:00	Super Loki	-	T 1-0884	-	-	-	-	WI	-	-	-	73	-	-
1984-W197	2445858.51	1984 Jun 07 0016:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	68	-	-
1984-S246	2445865.02	1984 Jun 13 1235	Super Loki	-	INTA SLD-8407	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-S247	2445866.96	1984 Jun 15 1105	Super Loki	-	INTA SLD-8408	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-W206	2445871.50	1984 Jun 19 2359:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	75?	-	-
1984-Y96	2445905.98	1984 Jul 24 1127:59	Super Loki	-	-	AN/DMQ-9- Sphere	-	-	-	WI	-	-	-	93	-	-
1984-W255	2445928.13	1984 Aug 15 1511:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	67	-	-
1984-M80	2445928.17	1984 Aug 15 1611	Super Loki	-	-	ROCOZ-A 330	-	-	-	WI	-	-	-	75?	-	-
1984-Y99	2445928.50	1984 Aug 16	Super Loki	-	-	-	-	-	-	PF	-	-	-	100?	-	-
1984-W262	2445935.89	1984 Aug 23 0926:59	Super Loki	-	VLF-TE support	Datasonde	-	-	-	WI	-	-	-	60	-	-
1984-Y109	2445949.06	1984 Sep 5 1325	Super Loki	-	-	PWN-12A/TI-903	-	-	-	WI	-	-	-	108	-	-
1984-W288	2445949.08	1984 Sep 05 1352:00	Super Loki	-	PWN-11D	PWN-11D/TI-904	-	-	-	WI	-	-	-	72	-	-
1984-W297	2445954.34	1984 Sep 10 2010	Super Loki	-	-	PWN-11D/TI-889	-	-	-	WI	-	-	-	70	-	-
1984-W303	2445962.08	1984 Sep 18 1400:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	69	-	-
1984-M81	2445962.12	1984 Sep 18 1458	Super Loki	-	-	ROCOZ-A 331	-	-	-	WI	-	-	-	75?	-	-
1984-M82	2445962.13	1984 Sep 18 1505	Super Loki	-	-	ROCOZ-A 332	-	-	-	WI	-	-	-	75?	-	-
1984-M83	2445962.18	1984 Sep 18 1621	Super Loki	-	-	ROCOZ-A 333	-	-	-	WI	-	-	-	75?	-	-
1984-M84	2445962.19	1984 Sep 18 1628	Super Loki	-	-	ROCOZ-A 334	-	-	-	WI	-	-	-	75?	-	-
1984-S248	2445965.00	1984 Sep 21 1206	Super Loki	-	INTA SLD-8409	Winter Anom/Dyn.Atm.	-	-	-	ELAR	-	-	-	100?	-	-
1984-W310	2445970.36	1984 Sep 26 2037:00	Super Loki	-	PWN-11D	PWN-11D	-	-	-	WI	-	-	-	78	-	-
1984-Y117	2445978.35	1984 Oct 04 2018:00	Super Loki	-	PWD-11D	PWN-11D	-	-	-	WI	-	-	-	80	-	-
1984-Y122	2445987.19	1984 Oct 13 1639	Super Loki	-	-	PWN-12A/TI-963	-	-	-	WI	-	-	-	114	-	-
1984-W337	2445987.21	1984 Oct 13 1659	Super Loki	-	-	PWN-11D/TI-964	-	-	-	WI	-	-	-	79	-	-
1984-W350	2445996.15	1984 Oct 22 1530:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1984-M85	2445996.19	1984 Oct 22 1630	Super Loki	-	-	ROCOZ-A 335	-	-	-	WI	-	-	-	75?	-	-
1984-W355	2445999.89	1984 Oct 26 0915	Super Loki	-	-	PWN-11D	-	-	-	WI	-	-	-	79	-	-
1984-W382	2446018.14	1984 Nov 13 1517:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	60	-	-
1984-M86	2446018.18	1984 Nov 13 1615	Super Loki	-	-	ROCOZ-A 336	-	-	-	WI	-	-	-	75?	-	-
1984-Y129	2446020.99	1984 Nov 16 1149:00	Super Loki	-	PWN-12A	PWN-12A	-	-	-	WI	-	-	-	113	-	-
1985-M51	2446081.12	1985 Jan 15 1500?	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	75?	-	-
1985-M52	2446081.20	1985 Jan 15 1649	Super Loki	-	-	ROCOZ-A 337	-	-	-	WI	-	-	-	75?	-	-
1985-W33	2446093.40	1985 Jan 27 2130:00	Super Loki	-	DATASONDE	PWN-11A	-	-	-	WI	-	-	-	79	-	-
1985-W44	2446103.14	1985 Feb 6 1518:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1985-M53	2446103.17	1985 Feb 6 1612	Super Loki	-	-	ROCOZ-A 338	-	-	-	WI	-	-	-	75?	-	-
1985-M60	2446150.23	1985 Mar 25 1735	Super Loki	-	-	ROCOZ-A 339	-	-	-	CLBI	-	-	-	75?	-	-
1985-M61	2446152.23	1985 Mar 27 1735	Super Loki	-	-	ROCOZ-A 340	-	-	-	CLBI	-	-	-	75?	-	-
1985-W92	2446154.27	1985 Mar 29 1829:00	Super Loki	-	DATASONDE	PWN-11D	-	-	-	PF	-	-	-	75	-	-
1985-W93	2446157.22	1985 Apr 01 1717:00	Super Loki	-	DATASONDE	PWN-11D	-	-	-	PF	-	-	-	75	-	-
1985-W94	2446157.31	1985 Apr 01 1928:00	Super Loki	-	DATASONDE	PWN-11D	-	-	-	PF	-	-	-	75	-	-
1985-M87	2446160.14	1985 Apr 4 1523	Super Loki	-	-	ROCOZ-A 341	-	-	-	CLBI	-	-	-	75?	-	-
1985-M63	2446160.94	1985 Apr 5 1036	Super Loki	-	-	ROCOZ-A 342	-	-	-	CLBI	-	-	-	75?	-	-
1985-M64	2446161.94	1985 Apr 6 1031	Super Loki	-	-	ROCOZ-A 343	-	-	-	CLBI	-	-	-	75?	-	-
1985-M65	2446169.25	1985 Apr 13 1755	Super Loki	-	-	ROCOZ-A 344	-	-	-	CLBI	-	-	-	75?	-	-
1985-M66	2446171.14	1985 Apr 15 1519	Super Loki	-	-	ROCOZ-A 345	-	-	-	CLBI	-	-	-	75?	-	-
1985-Y11	2446175.07	1985 Apr 19 1335:00	Super Loki	-	DATASONDE	PWN-11D	-	-	-	WI	-	-	-	80	-	-
1985-W127	2446181.28	1985 Apr 25 1845:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	73	-	-
1985-M54	2446181.32	1985 Apr 25 1945	Super Loki	-	-	ROCOZ-A 346	-	-	-	WI	-	-	-	75?	-	-
1985-M55	2446206.22	1985 May 20 1715	Super Loki	-	-	ROCOZ-A 347	-	-	-	WI	-	-	-	75?	-	-
1985-W162	2446206.27	1985 May 20 1822:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	74	-	-
1985-W188	2446236.27	1985 Jun 19 1826:59	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	69	-	-
1985-M56	2446236.31	1985 Jun 19 1925	Super Loki	-	-	ROCOZ-A 348	-	-	-	WI	-	-	-	75?	-	-
1985-M57	2446277.04	1985 Jul 30 1300	Super Loki	-	-	ROCOZ-A 349	-	-	-	WI	-	-	-	75?	-	-
1985-W216	2446277.09	1985 Jul 30 1410:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	71	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-M58	2446292.30	1985 Aug 14 1915	Super Loki	-	-	ROCOZ-A 350	-	-	-	WI	-	-	-	75?	-	-
1985-W238	2446318.57	1985 Sep 10 0139:00	Super Loki	-	-	PWN-11D Datasonde	-	-	-	WI	-	-	-	76	-	-
1985-M59	2446327.31	1985 Sep 18 1930	Super Loki	-	-	ROCOZ-A 351	-	-	-	WI	-	-	-	75?	-	-
1985-W247	2446327.35	1985 Sep 18 2030:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	72	-	-
1985-W297	2446386.01	1985 Nov 16 1217:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	77	-	-
1985-W327	2446409.53	1985 Dec 10 0050:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	70	-	-
1985-W328	2446410.50	1985 Dec 11 0000:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	75	-	-
1985-W338	2446416.50	1985 Dec 17 0000:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	76	-	-
1985-Y152	2446416.54	1985 Dec 17 0100:00	Super Loki	-	PWN-12A	-	-	-	-	WI	-	-	-	112	-	-
1985-W339	2446416.56	1985 Dec 17 0130:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	79	-	-
1985-Y154	2446417.54	1985 Dec 18 0055:00	Super Loki	-	PWN-12A	-	-	-	-	WI	-	-	-	115	-	-
1985-Y155	2446417.56	1985 Dec 18 0120:00	Super Loki	-	PWN-11D	-	-	-	-	WI	-	-	-	80	-	-
1986-Y243	2446638.43	1986 Jul 26 2214:30	Super Loki	-	PWN-12A Robin	-	-	-	-	ESR	L	-	-	116	-	-
1986-Y244	2446638.48	1986 Jul 26 2328:10	Super Loki	-	PWN-12A Robin	-	-	-	-	ESR	L	-	-	110	-	-
1986-Y245	2446638.50	1986 Jul 27 0006:00	Super Loki	-	PWN-12A Robin	-	-	-	-	ESR	L	-	-	110	-	-
1986-Y246	2446638.53	1986 Jul 27 0050:00	Super Loki	-	PWN-12A Robin	PWN-12A Robin	-	-	-	ESR	L	-	-	118	-	-
1986-Y247	2446639.43	1986 Jul 27 2214:30	Super Loki	-	PWN-12A Robin	PWN-12A Robin	-	-	-	ESR	L	-	-	120	-	-
1986-Y248	2446639.47	1986 Jul 27 2316:00	Super Loki	-	PWN-12A Robin	PWN-12A Robin	-	-	-	ESR	L	-	-	117	-	-
1987-A23	2446962.00	1987 Jun 15 1157	Super Loki	-	Sphere	MAC-SINE S-C1/H	-	-	-	AND	-	-	-	0?	-	-
1987-Y391	2446969.02	1987 Jun 22 1230	Super Loki	-	Chaff	MAC-SINE S-C02/H	-	-	-	AND	-	-	-	84	-	-
1987-Y407	2446969.05	1987 Jun 22 1311	Super Loki	-	Chaff	MAC-SINE S-C03/H	-	-	-	AND	-	-	-	80?	-	-
1987-Y392	2446970.97	1987 Jun 24 1120	Super Loki	-	Chaff	MAC-SINE S-C04/L	-	-	-	AND	-	-	-	93	-	-
1987-Y393	2446971.00	1987 Jun 24 1153	Super Loki	-	Chaff	MAC-SINE S-C05/L	-	-	-	AND	-	-	-	95	-	-
1987-Y406	2446971.02	1987 Jun 24 1225	Super Loki	-	Chaff	MAC-SINE S-C06/L	-	-	-	AND	-	-	-	83?	-	-
1987-Y394	2446971.03	1987 Jun 24 1240	Super Loki	-	Chaff	MAC-SINE S-C07/L	-	-	-	AND	-	-	-	97	-	-
1987-Y395	2446971.06	1987 Jun 24 1333	Super Loki	-	Chaff	MAC-SINE S-C08/L	-	-	-	AND	-	-	-	99	-	-
1987-Y396	2446972.98	1987 Jun 26 1127	Super Loki	-	Chaff	MAC-SINE S-C09/L	-	-	-	AND	-	-	-	95	-	-
1987-Y411	2446973.00	1987 Jun 26 1201	Super Loki	-	Chaff	MAC-SINE S-C10/H	-	-	-	AND	-	-	-	83?	-	-
1987-Y397	2446973.03	1987 Jun 26 1244	Super Loki	-	Chaff	MAC-SINE S-C11/L	-	-	-	AND	-	-	-	96	-	-
1987-Y398	2446973.07	1987 Jun 26 1336	Super Loki	-	Chaff	MAC-SINE S-C12/H	-	-	-	AND	-	-	-	86	-	-
1987-Y201	2446978.39	1987 Jul 01 2128:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C13/L	-	-	-	AND	-	-	-	95	-	-
1987-Y202	2446978.43	1987 Jul 01 2215:00	Super Loki	-	HEAVY CHAFF	MAC-SINE S-C14/H	-	-	-	AND	-	-	-	82	-	-
1987-W177	2446978.48	1987 Jul 01 2334:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C15/L	-	-	-	AND	-	-	-	96	-	-
1987-Y204	2446978.49	1987 Jul 01 2349:00	Super Loki	-	HEAVY CHAFF	MAC-SINE S-C16/H	-	-	-	AND	-	-	-	84	-	-
1987-Y219	2446990.87	1987 Jul 14 0852:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C17/L	-	-	-	AND	-	-	-	95	-	-
1987-Y221	2446990.90	1987 Jul 14 0943:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C18/L	-	-	-	AND	-	-	-	96	-	-
1987-Y222	2446990.93	1987 Jul 14 1019:00	Super Loki	-	HEAVY CHAFF	MAC-SINE S-C19/H	-	-	-	AND	-	-	-	80	-	-
1987-Y224	2446990.98	1987 Jul 14 1130:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C20/L	-	-	-	AND	-	-	-	90	-	-
1987-Y225	2446991.00	1987 Jul 14 1203:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C21/L	-	-	-	AND	-	-	-	94	-	-
1987-Y227	2446991.05	1987 Jul 14 1307:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C22/L	-	-	-	AND	-	-	-	94	-	-
1987-W185	2446991.60	1987 Jul 15 0223:00	Super Loki	-	-	Datasonde	-	-	-	WI	-	-	-	64	-	-
1987-Y231	2446992.05	1987 Jul 15 1306:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C23/L	-	-	-	AND	-	-	-	98	-	-
1987-Y234	2446992.35	1987 Jul 15 2030:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C24/L	-	-	-	AND	-	-	-	95	-	-
1987-Y236	2446992.39	1987 Jul 15 2117:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C25/L	-	-	-	AND	-	-	-	97	-	-
1987-Y238	2446992.42	1987 Jul 15 2201:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C26/L	-	-	-	AND	-	-	-	97	-	-
1987-Y239	2446992.44	1987 Jul 15 2230:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C27/L	-	-	-	AND	-	-	-	95	-	-
1987-Y240	2446992.45	1987 Jul 15 2254:00	Super Loki	-	LIGHT CHAFF	MAC-SINE S-C28/L	-	-	-	AND	-	-	-	98	-	-
1987-W198	2447003.79	1987 Jul 27 0652:00	Super Loki	-	-	WIPP/Datasonde	-	-	-	WI	-	-	-	70	-	-
1987-Y303	2447083.96	1987 Oct 15 1057:00	Super Loki	-	Light Chaff	MAC/EPSILON E-C1/L	-	-	-	AND	-	-	-	87	-	-
1987-Y304	2447083.98	1987 Oct 15 1132:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TYL-1697	-	-	-	AND	-	-	-	93	-	-
1987-W253	2447083.98	1987 Oct 15 1133:00	Super Loki	-	Chaff	MAC/EPSILON E-C2/H	-	-	-	AND	-	-	-	96	-	-
1987-Y305	2447084.01	1987 Oct 15 1214:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1696	-	-	-	AND	-	-	-	96	-	-
1987-Y412	2447084.06	1987 Oct 15 1332:00	Super Loki	-	Chaff	MAC/EPSILON E-C4/L	-	-	-	AND	-	-	-	84	-	-
1987-Y313	2447090.42	1987 Oct 21 2208:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1698	-	-	-	AND	-	-	-	90	-	-
1987-Y314	2447090.44	1987 Oct 21 2228:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1699	-	-	-	AND	-	-	-	91	-	-
1987-Y315	2447090.44	1987 Oct 21 2237:00	Super Loki	-	Chaff	MAC/EPSILON E-C7/L	-	-	-	AND	-	-	-	82	-	-
1987-Y324	2447096.51	1987 Oct 28 0011:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1700	-	-	-	AND	-	-	-	92	-	-
1987-Y325	2447096.52	1987 Oct 28 0031:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1701	-	-	-	AND	-	-	-	91	-	-
1987-Y331	2447101.10	1987 Nov 01 1430:00	Super Loki	-	Chaff Test 2	MAC/EPSILON E-C9/L	-	-	-	AND	-	-	-	82	-	-
1987-Y345	2447111.53	1987 Nov 12 0041:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1702	-	-	-	AND	-	-	-	95	-	-
1987-Y346	2447111.54	1987 Nov 12 0101:00	Super Loki	-	FALLING SPHERE	MAC/EPSILON TY1-1703	-	-	-	AND	-	-	-	90	-	-
1988-M50	2447466.35	1988 Oct 31 2017	Super Loki	-	-	ROCOZ-A 352 PreSTOIC	-	-	-	PM	-	-	-	75?	-	-
1988-M51	2447467.35	1988 Nov 1 2025	Super Loki	-	-	ROCOZ-A 353 PreSTOIC	-	-	-	PM	-	-	-	75?	-	-
1988-M52	2447468.42	1988 Nov 2 2211	Super Loki	-	-	ROCOZ-A 354 PreSTOIC	-	-	-	PM	-	-	-	75?	-	-
1988-M53	2447471.44	1988 Nov 5 2237	Super Loki	-	-	ROCOZ-A 355 PreSTOIC	-	-	-	PM	-	-	-	75?	-	-
1989-M06	2447728.32	1989 Jul 20 1939	Super Loki	-	-	ROCOZ-A 356 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1989-M07	2447732.31	1989 Jul 24 1922	Super Loki	-	-	ROCOZ-A 357 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1989-M08	2447734.37	1989 Jul 26 2053	Super Loki	-	-	ROCOZ-A 358 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1989-M09	2447735.28	1989 Jul 27 1849	Super Loki	-	-	ROCOZ-A 359 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1989-M10	2447736.27	1989 Jul 28 1827	Super Loki	-	-	ROCOZ-A 360 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1989-M11	2447741.23	1989 Aug 2 1738	Super Loki	-	-	ROCOZ-A 361 STOIC	-	-	-	SNI	-	-	-	75?	-	-
1990-Y20	2447903.39	1990 Jan 11 2121:00	Super Loki	-	Datasonde	DYANA DAD1	-	-	-	AND	-	-	-	90?	-	-
1990-Y21	2447903.44	1990 Jan 11 2239:00	Super Loki	-	Datasonde	DYANA DAD2	-	-	-	AND	-	-	-	66	-	-
1990-Y32	2447907.40	1990 Jan 15 2140	Super Loki	-	Datasonde	DYANA DED1	INTA DYSLD-9001	-	-	ELAR	-	-	-	80?	-	-
1990-Y33	2447907.46	1990 Jan 15 2256	Super Loki	-	Datasonde	DYANA DED2	INTA DYSLD-9002	-	-	ELAR	-	-	-	80?	-	-
1990-Y34	2447907.67	1990 Jan 16 0401	Super Loki	-	Datasonde	DYANA DCD1	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y39	2447909.05	1990 Jan 17 1310	Super Loki	-	Datasonde SL-2	DYANA DUD1	-	-	-	KASC	-	-	-	80?	-	-
1990-Y46	2447910.35	1990 Jan 18 2029	Super Loki	-	Datasonde	DYANA DAD9	-	-	-	AND	-	-	-	90?	-	-
1990-Y48	2447910.38	1990 Jan 18 2109	Super Loki	-	Datasonde	DYANA DED3	INTA DYSLD-9003	-	-	ELAR	-	-	-	90?	-	-
1990-Y49	2447910.39	1990 Jan 18 2115:40	Super Loki	-	Datasonde	DYANA DAD10	-	-	-	AND	-	-	-	70	-	-
1990-Y50	2447910.67	1990 Jan 19 0407:00	Super Loki	-	Datasonde	DYANA DCD2	-	-	-	COLDLK	-	-	-	90?	-	-
1990-W190	2447912.01	1990 Jan 20 1210	Super Loki	-	SL-3	-	-	-	-	KASC	-	-	-	77	-	-
1990-Y61	2447914.33	1990 Jan 22 2000	Super Loki	-	Datasonde	DYANA DAD16	-	-	-	AND	-	-	-	52	-	-
1990-Y62	2447914.37	1990 Jan 22 2056	Super Loki	-	Datasonde	DYANA DAD17	-	-	-	AND	-	-	-	81	-	-
1990-Y63	2447914.66	1990 Jan 23 0345	Super Loki	-	Datasonde	DYANA DCD3	-	-	-	COLDLK	-	-	-	90?	-	-
1990-S192	2447915.39	1990 Jan 23 2117	Super Loki	-	Datasonde	DYANA DED4?	INTA DYSLD-9004	-	-	ELAR	-	-	-	90?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-Y65	2447915.42	1990 Jan 23 2209	Super Loki	-	Datasonde	DYANA DED5	INTA DYSLD-9005	-	-	ELAR	-	-	-	90?	-	-
1990-Y76	2447917.33	1990 Jan 25 2000	Super Loki	-	Datasonde	DYANA DAD19	-	-	-	AND	-	-	-	87	-	-
1990-Y78	2447917.40	1990 Jan 25 2132	Super Loki	-	Datasonde	DYANA DED6	INTA DYSLD-9006	-	-	ELAR	-	-	-	90?	-	-
1990-Y79	2447917.66	1990 Jan 26 0346	Super Loki	-	Datasonde	DYANA DCD4	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y82	2447920.38	1990 Jan 28 2111	Super Loki	-	Datasonde	DYANA DAD23	-	-	-	AND	-	-	-	80	-	-
1990-Y83	2447921.02	1990 Jan 29 1225	Super Loki	-	Datasonde SL-4	DYANA DUD3	-	-	-	KASC	-	-	-	80?	-	-
1990-Y86	2447921.34	1990 Jan 29 2007:11	Super Loki	-	Datasonde	DYANA DAD24	-	-	-	AND	-	-	-	78	-	-
1990-Y87	2447921.66	1990 Jan 30 0346	Super Loki	-	Datasonde	DYANA DCD5	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y88	2447922.39	1990 Jan 30 2115	Super Loki	-	Datasonde	DYANA DED7	INTA DYSLD-9007	-	-	ELAR	-	-	-	90?	-	-
1990-Y92	2447923.02	1990 Jan 31 1225	Super Loki	-	Datasonde SL-5	DYANA DUD4	-	-	-	KASC	-	-	-	80?	-	-
1990-Y102	2447924.34	1990 Feb 1 2002:30	Super Loki	-	Datasonde	DYANA DAD27	-	-	-	AND	-	-	-	90?	-	-
1990-Y103	2447924.39	1990 Feb 1 2125:00	Super Loki	-	Datasonde	DYANA DED8	INTA DYSLD-9008	-	-	ELAR	-	-	-	90?	-	-
1990-Y104	2447924.68	1990 Feb 2 0419	Super Loki	-	Datasonde	DYANA DCD6	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y105	2447925.33	1990 Feb 2 2000	Super Loki	-	Datasonde	DYANA DAD28	-	-	-	AND	-	-	-	78	-	-
1990-Y107	2447928.00	1990 Feb 5 1200	Super Loki	-	Datasonde SL-6	DYANA DUD5	-	-	-	KASC	-	-	-	80?	-	-
1990-Y111	2447928.35	1990 Feb 5 2020	Super Loki	-	Datasonde	DYANA DAD29	-	-	-	AND	-	-	-	81	-	-
1990-S193	2447928.40	1990 Feb 5 2134	Super Loki	-	Datasonde	DYANA DED9?	INTA DYSLD-9009	-	-	ELAR	-	-	-	90?	-	-
1990-Y112	2447928.43	1990 Feb 5 2214	Super Loki	-	Datasonde	DYANA DED10	INTA DYSLD-9010	-	-	ELAR	-	-	-	90?	-	-
1990-Y113	2447928.66	1990 Feb 6 0346	Super Loki	-	Datasonde	DYANA DCD7	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y123	2447931.33	1990 Feb 8 2000	Super Loki	-	Sphere	DYANA DAS32	-	-	-	AND	-	-	-	84	-	-
1990-Y126	2447931.38	1990 Feb 8 2112	Super Loki	-	Datasonde	DYANA DED11	INTA DYSLD-9011	-	-	ELAR	-	-	-	90?	-	-
1990-Y127	2447931.39	1990 Feb 8 2117	Super Loki	-	Datasonde	DYANA DAD34	-	-	-	AND	-	-	-	82	-	-
1990-Y128	2447931.67	1990 Feb 9 0405	Super Loki	-	Datasonde	DYANA DCD8	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y134	2447935.33	1990 Feb 12 2000	Super Loki	-	Datasonde	DYANA DAD36	-	-	-	AND	-	-	-	86	-	-
1990-Y135	2447935.38	1990 Feb 12 2100	Super Loki	-	Datasonde	DYANA DED12	INTA DYSLD-9012	-	-	ELAR	-	-	-	90?	-	-
1990-Y136	2447935.66	1990 Feb 13 0345	Super Loki	-	Datasonde	DYANA DCD9	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y143	2447938.33	1990 Feb 15 2002	Super Loki	-	Datasonde	DYANA DAD40	-	-	-	AND	-	-	-	69	-	-
1990-Y144	2447938.40	1990 Feb 15 2134	Super Loki	-	Datasonde	DYANA DED13	INTA DYSLD-9013	-	-	ELAR	-	-	-	90?	-	-
1990-Y145	2447938.66	1990 Feb 16 0355	Super Loki	-	Datasonde	DYANA DCD10	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y148	2447940.33	1990 Feb 17 2000	Super Loki	-	Sphere	DYANA DAS41	-	-	-	AND	-	-	-	85	-	-
1990-Y150	2447940.38	1990 Feb 17 2102	Super Loki	-	Sphere	DYANA DAS43	-	-	-	AND	-	-	-	83	-	-
1990-Y154	2447942.34	1990 Feb 19 2003:35	Super Loki	-	Datasonde	DYANA DAD44	-	-	-	AND	-	-	-	77	-	-
1990-Y155	2447942.40	1990 Feb 19 2135	Super Loki	-	Datasonde	DYANA DED14	INTA DYSLD-9014	-	-	ELAR	-	-	-	90?	-	-
1990-Y158	2447942.66	1990 Feb 20 0345:00	Super Loki	-	Datasonde	DYANA DCD11	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y172	2447945.34	1990 Feb 22 2015	Super Loki	-	Datasonde	DYANA DAD46	-	-	-	AND	-	-	-	80	-	-
1990-Y173	2447945.38	1990 Feb 22 2113	Super Loki	-	Datasonde	DYANA DED15	INTA DYSLD-9015	-	-	ELAR	-	-	-	90?	-	-
1990-Y174	2447945.66	1990 Feb 23 0346	Super Loki	-	Datasonde	DYANA DCD12	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y184	2447949.33	1990 Feb 26 2000	Super Loki	-	Datasonde	DYANA DAD53	-	-	-	AND	-	-	-	84	-	-
1990-Y185	2447949.40	1990 Feb 26 2130	Super Loki	-	Datasonde	DYANA DED16	INTA DYSLD-9016	-	-	ELAR	-	-	-	90?	-	-
1990-Y186	2447949.66	1990 Feb 27 0345	Super Loki	-	Datasonde	DYANA DCD13	-	-	-	COLDLK	-	-	-	90?	-	-
1990-A13	2447952.34	1990 Mar 1 2015	Super Loki	-	Datasonde	DYANA DAD56	-	-	-	AND	-	-	-	0?	-	-
1990-Y194	2447952.36	1990 Mar 1 2042	Super Loki	-	Datasonde	DYANA DAD57	-	-	-	AND	-	-	-	83	-	-
1990-S194	2447952.39	1990 Mar 1 2118	Super Loki	-	Datasonde	DYANA DED17?	INTA DYSLD-9017	-	-	ELAR	-	-	-	90?	-	-
1990-Y195	2447952.42	1990 Mar 1 2203	Super Loki	-	Datasonde	DYANA DED18	INTA DYSLD-9018	-	-	ELAR	-	-	-	90?	-	-
1990-Y196	2447952.66	1990 Mar 2 0352:16	Super Loki	-	Datasonde	DYANA DCD14	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y200	2447956.29	1990 Mar 5 1901	Super Loki	-	Datasonde	DYANA DAD59	-	-	-	AND	-	-	-	84	-	-
1990-Y201	2447956.43	1990 Mar 5 2220	Super Loki	-	Datasonde	DYANA DED19	INTA DYSLD-9019	-	-	ELAR	-	-	-	90?	-	-
1990-Y329	2447956.64	1990 Mar 6 0326	Super Loki	-	-	SISSI So1	-	-	-	ESR	L	-	-	0?	-	-
1990-Y206	2447956.66	1990 Mar 6 0345	Super Loki	-	Datasonde	DYANA DCD15	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y221	2447959.29	1990 Mar 8 1904	Super Loki	-	Datasonde	DYANA DAD69	-	-	-	AND	-	-	-	80	-	-
1990-Y223	2447959.39	1990 Mar 8 2115	Super Loki	-	Datasonde	DYANA DED20	INTA DYSLD-9020	-	-	ELAR	-	-	-	90?	-	-
1990-Y231	2447959.71	1990 Mar 9 0502	Super Loki	-	Datasonde	DYANA DCD17	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y242	2447963.33	1990 Mar 12 2000	Super Loki	-	Datasonde	DYANA DAD89	-	-	-	AND	-	-	-	79	-	-
1990-Y243	2447963.40	1990 Mar 12 2129	Super Loki	-	Datasonde	DYANA DED21	INTA DYSLD-9021	-	-	ELAR	-	-	-	90?	-	-
1990-Y248	2447963.66	1990 Mar 13 0345	Super Loki	-	Datasonde	DYANA DCD18	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y254	2447965.31	1990 Mar 14 1930	Super Loki	-	Datasonde	DYANA DAD90	-	-	-	AND	-	-	-	74	-	-
1990-Y256	2447966.38	1990 Mar 15 2114	Super Loki	-	Datasonde	DYANA DED22	INTA DYSLD-9022	-	-	ELAR	-	-	-	90?	-	-
1990-Y257	2447966.66	1990 Mar 16 0345	Super Loki	-	Datasonde	DYANA DCD19	-	-	-	COLDLK	-	-	-	90?	-	-
1990-Y330	2448098.38	1990 Jul 25 2100	Super Loki	-	Robin Dart	SISSI So2	-	-	-	ESR	L	-	-	81	-	-
1990-Y331	2448099.42	1990 Jul 26 2205	Super Loki	-	Robin Dart	SISSI So3	-	-	-	ESR	L	-	-	81	-	-
1990-Y333	2448099.50	1990 Jul 26 2355	Super Loki	-	Robin Dart	SISSI So4	-	-	-	ESR	L	-	-	84	-	-
1990-W219	2448106.49	1990 Aug 2 2346	Super Loki	-	Robin Dart	SISSI So5?	-	-	-	ESR	L	-	-	39	-	-
1991-W170	2448356.23	1991 Apr 9 1738	Super Loki	-	SISSI So5	SISSI So5	-	-	-	ESR	L	-	-	72	-	-
1991-Y50	2448356.33	1991 Apr 9 1950	Super Loki	-	SISSI So6	SISSI So6	-	-	-	ESR	L	-	-	80?	-	-
1991-Y51	2448356.36	1991 Apr 9 2041	Super Loki	-	SISSI So7	SISSI So7	-	-	-	ESR	L	-	-	87	-	-
1991-S205	2448527.47	1991 Sep 27 2318:00	Super Loki	-	Sphere	METAL/L-L12	-	-	-	AND	-	-	-	83	-	-
1991-S214	2448533.55	1991 Oct 4 0116:30	Super Loki	-	Sphere	METAL/L-L25	-	-	-	AND	-	-	-	83	-	-
1992-Y33	2448856.50	1992 Aug 22	Microstar	-	-	(Viper 3?)	-	-	-	CSB	-	-	-	82	-	-
1992-W97	2448909.50	1992 Oct 14	Super Loki	-	-	Student Launch Prog	-	-	-	CCA	LC47	-	-	75?	-	-
1994-Y01	2449666.11	1994 Nov 9 1445	Super Loki	?	-	CWS-34	-	-	-	WI	-	-	-	100?	-	-
1994-Y02	2449682.46	1994 Nov 25 2300	Super Loki	?	-	CWS-58	-	-	-	WI	-	-	-	100?	-	-
1995-M02	2449850.38	1995 May 12 2100	Super Loki	-	Dart	High School Payload	-	-	-	WI	-	-	-	73	-	-
1995-W08	2449923.95	1995 Jul 25 1041:00	Super Loki	-	-	-	-	-	-	PF	-	-	-	75?	-	-
1995-W09	2449937.88	1995 Aug 8 0910:00	Super Loki	-	-	-	-	-	-	PF	-	-	-	75?	-	-
1995-W10	2450042.08	1995 Nov 20 1400	Super Loki	-	DLR KO-SL-218	-	-	-	-	CSG	-	-	-	75?	-	-
1995-W11	2450045.08	1995 Nov 23 1400	Super Loki	-	DLR KO-SL-219	-	-	-	-	CSG	-	-	-	75?	-	-
1996-S88	2450238.50	1996 Jun 4	Super Loki	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1997-W36	2450665.45	1997 Aug 4 2255:00	Super Loki	-	Datasonde 11D	CRISTA	-	-	-	WI	-	-	-	76	-	-
1997-W39	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	CRISTA GMD-5000	-	-	-	WI	-	-	-	75?	-	-
1997-W40	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	CRISTA GMD-5000	-	-	-	WI	-	-	-	75?	-	-
1997-W41	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	CRISTA GMD-5000	-	-	-	WI	-	-	-	75?	-	-
1997-Y08	2450669.06	1997 Aug 8 1319:30	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	120	-	-
1997-Y09	2450670.06	1997 Aug 9 1329	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	105	-	-
1997-W47	2450669.17	1997 Aug 8 1600?	Super Loki	-	Falling Sphere	METEORS/CRISTA	-	-	-	WS	-	-	-	75?	-	-
1997-W48	2450669.17	1997 Aug 8 1600?	Super Loki	-	Falling Sphere	METEORS/CRISTA	-	-	-	WS	-	-	-	75?	-	-
1997-Y10	2450670.46	1997 Aug 9 2257	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	110	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-W49	2450670.47	1997 Aug 9 2312	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	75?	-	-
1997-W50	2450671.39	1997 Aug 10 2121:20	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	75	-	-
1997-Y13	2450671.40	1997 Aug 10 2130:10	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	111	-	-
1997-Y15	2450672.07	1997 Aug 11 1338	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	107	-	-
1997-W54	2450672.38	1997 Aug 11 2110	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	78	-	-
1997-W55	2450672.39	1997 Aug 11 2119	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	75	-	-
1997-Y17	2450672.40	1997 Aug 11 2134	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	106	-	-
1997-Y18	2450673.01	1997 Aug 12 1210	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	111	-	-
1997-Y20	2450673.02	1997 Aug 12 1226:06	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	118	-	-
1997-W56	2450673.40	1997 Aug 12 2130	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	77	-	-
1997-Y21	2450673.40	1997 Aug 12 2141	Super Loki	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	112	-	-
1997-Y22	2450674.08	1997 Aug 13 1350	Super Loki	-	Sphere	CRISTA	-	-	-	WI	-	-	-	117	-	-
1997-Y23	2450674.08	1997 Aug 13 1355	Super Loki	-	Sphere	CRISTA	-	-	-	WI	-	-	-	121	-	-
1997-Y24	2450674.39	1997 Aug 13 2123	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	80	-	-
1997-Y25	2450674.40	1997 Aug 13 2140	Super Loki	-	Sphere	CRISTA	-	-	-	WI	-	-	-	121	-	-
1997-Y26	2450675.02	1997 Aug 14 1222	Super Loki	-	Sphere	CRISTA	-	-	-	WI	-	-	-	115	-	-
1997-W60	2450675.39	1997 Aug 14 2127:10	Super Loki	-	Datasonde	CRISTA	-	-	-	WI	-	-	-	75	-	-
1997-W61	2450675.95	1997 Aug 15 1053	Super Loki	-	-	CRISTA	-	-	-	WI	-	-	-	40?	-	-
1997-Y30	2450676.35	1997 Aug 15 2025	Super Loki	-	-	CRISTA	-	-	-	WI	-	-	-	121	-	-
1997-W62	2450679.31	1997 Aug 18 1930	Super Loki	-	-	CRISTA	-	-	-	WI	-	-	-	78	-	-
1997-W63	2450679.32	1997 Aug 18 1940	Super Loki	-	-	CRISTA	-	-	-	WI	-	-	-	74	-	-
1997-W77	2450752.14	1997 Oct 30 1524:07	Super Loki	-	DLR KO-SL-227	Ariane Met	-	-	-	CSG	-	-	-	75?	-	-
1997-W78	2450752.21	1997 Oct 30 1700	Super Loki	-	DLR KO-SL-228	Ariane Met	-	-	-	CSG	-	-	-	75?	-	-
1998-Y37	2450879.52	1998 Mar 7 0033	Super Loki	-	Chaff	-	-	-	-	ESR	L	-	-	100?	-	-
1998-Y38	2450879.56	1998 Mar 7 0124	Super Loki	-	Chaff	-	-	-	-	ESR	L	-	-	100?	-	-
1998-W16	2450940.50	1998 May 7	Super Loki	-	-	THAAD prep	-	-	-	WS	-	-	-	75?	-	-
1998-S74	2451107.50	1998 Oct 21	Super Loki	-	-	Ariane Met	-	-	-	CSG	ALFS	-	-	80?	-	-
1998-Y35	2451109.48	1998 Oct 22 2330?	Super Loki	-	-	PHYSX support	-	-	-	CCA	LC47?	-	-	90?	-	-
1998-Y36	2451109.52	1998 Oct 23 0030?	Super Loki	-	-	PHYSX support	-	-	-	CCA	LC47?	-	-	90?	-	-
1999-W04	2451364.48	1999 Jul 4 2338:00	Super Loki	-	MD-CH-01	MIDAS chaff	-	-	-	AND	-	-	-	90?	-	-
1999-W12	2451365.60	1999 Jul 6 0229	Super Loki	-	MD-CH-11	MIDAS/DROPPS	-	-	-	AND	-	-	-	90?	-	-
1999-W19	2451375.90	1999 Jul 16 0930	Super Loki	-	MD-CH-19	MIDAS/DROPPS	-	-	-	AND	-	-	-	90?	-	-
2000-W03	2451565.18	2000 Jan 21 1622	Super Loki	-	LiteStar	-	-	-	-	CC	LC20	-	-	75?	-	-
2000-W32	2451891.33	2000 Dec 12 2000	Super Loki	-	LiteStar	-	-	-	-	CC	LC20	-	-	75?	-	-
2000-W33	2451892.17	2000 Dec 13 1600	Super Loki	-	LiteStar	-	-	-	-	CC	LC20	-	-	75?	-	-
2001-W15	2452258.93	2001 Dec 15 1020:30	Super Loki	-	Wind	Hygrosonde II Met	-	-	-	ESR	L	-	-	75?	-	-
2001-Y31	2452259.00	2001 Dec 15 1153:30	Super Loki	-	Wind	Hygrosonde II Met	-	-	-	ESR	L	-	-	110?	-	-
2001-W16	2452259.63	2001 Dec 16 0311:30	Super Loki	-	-	Hygrosonde II Met	-	-	-	ESR	L	-	-	75?	-	-
2001-W17	2452259.74	2001 Dec 16 0543	Super Loki	-	Falling Sphere	Hygrosonde II Met	-	-	-	ESR	L	-	-	75?	-	-
2001-W18	2452259.76	2001 Dec 16 0618	Super Loki	-	Falling Sphere	Hygrosonde II Met	-	-	-	ESR	L	-	-	75?	-	-
2002-W05	2452454.22	2002 Jun 28 1710:00	Super Loki	-	-	MM-SFS-01	-	-	-	AND	-	-	-	75?	-	-
2002-W06	2452457.22	2002 Jul 1 1720:00	Super Loki	-	-	MM-LFS-02	-	-	-	AND	-	-	-	75?	-	-
2002-W07	2452457.31	2002 Jul 1 1920:00	Super Loki	-	-	MM-LFS-03	-	-	-	AND	-	-	-	75?	-	-
2002-W13	2452457.53	2002 Jul 2 0040:00	Super Loki	-	-	MM-LFS-10	-	-	-	AND	-	-	-	75?	-	-
2002-W15	2452457.60	2002 Jul 2 0220:00	Super Loki	-	-	MM-LFS-13	-	-	-	AND	-	-	-	75?	-	-
2002-W16	2452457.64	2002 Jul 2 0320:00	Super Loki	-	-	MM-LFS-14	-	-	-	AND	-	-	-	75?	-	-
2002-W17	2452460.30	2002 Jul 4 1918:00	Super Loki	-	-	MM-LFS-15	-	-	-	AND	-	-	-	75?	-	-
2002-W19	2452460.36	2002 Jul 4 2045:00	Super Loki	-	-	MM-LFS-17	-	-	-	AND	-	-	-	75?	-	-
2002-W21	2452460.43	2002 Jul 4 2215:00	Super Loki	-	-	MM-LFS-19	-	-	-	AND	-	-	-	75?	-	-
2002-W27	2452460.67	2002 Jul 5 0400:00	Super Loki	-	-	MM-LFS-28	-	-	-	AND	-	-	-	75?	-	-
2002-W28	2452460.71	2002 Jul 5 0500:00	Super Loki	-	-	MM-LFS-29	-	-	-	AND	-	-	-	75?	-	-
2002-W29	2452460.75	2002 Jul 5 0600:00	Super Loki	-	-	MM-LFS-30	-	-	-	AND	-	-	-	75?	-	-
2003-Y37	2452653.05	2003 Jan 13 1308	Super Loki	-	-	SAGE-3 Test 1	-	-	-	ESR	L	-	-	110?	-	-
2003-Y38	2452653.12	2003 Jan 13 1449	Super Loki	-	-	SAGE-3 Test 2	-	-	-	ESR	L	-	-	110?	-	-
2003-Y39	2452654.04	2003 Jan 14 1300	Super Loki	-	-	SAGE-3 Test 3	-	-	-	ESR	L	-	-	110?	-	-
2003-Y40	2452654.08	2003 Jan 14 1400	Super Loki	-	-	SAGE-3 Test 4	-	-	-	ESR	L	-	-	110?	-	-
2003-Y01	2452655.04	2003 Jan 15 1302	Super Loki	-	-	SAGE-3 1	-	-	-	ESR	L	-	-	110	-	-
2003-Y02	2452656.04	2003 Jan 16 1300	Super Loki	-	-	SAGE-3 2	-	-	-	ESR	L	-	-	116	-	-
2003-Y03	2452657.04	2003 Jan 17 1300	Super Loki	-	-	SAGE-3 3	-	-	-	ESR	L	-	-	112	-	-
2003-Y41	2452658.04	2003 Jan 18 1300	Super Loki	-	-	SAGE-3 Wind 4	-	-	-	ESR	L	-	-	117	-	-
2003-Y42	2452659.04	2003 Jan 19 1300	Super Loki	-	-	SAGE-3 Wind 5	-	-	-	ESR	L	-	-	118	-	-
2003-Y04	2452661.04	2003 Jan 21 1300	Super Loki	-	-	MM-LFS Wind 6	-	-	-	ESR	L	-	-	113	-	-
2003-Y43	2452662.04	2003 Jan 22 1300	Super Loki	-	-	SAGE-3 Wind 7	-	-	-	ESR	L	-	-	112	-	-
2003-Y44	2452662.07	2003 Jan 22 1335	Super Loki	-	-	SAGE-3 Wind 8	-	-	-	ESR	L	-	-	115?	-	-
2003-Y45	2452663.04	2003 Jan 23 1300	Super Loki	-	-	SAGE-3 Wind 9	-	-	-	ESR	L	-	-	113	-	-
2003-Y46	2452663.05	2003 Jan 23 1315	Super Loki	-	-	SAGE-3 Wind 10	-	-	-	ESR	L	-	-	115?	-	-
2003-Y47	2452663.08	2003 Jan 23 1350	Super Loki	-	-	SAGE-3 Wind 11	-	-	-	ESR	L	-	-	89	-	-
2003-Y48	2452664.04	2003 Jan 24 1300	Super Loki	-	-	SAGE-3 Wind 12	-	-	-	ESR	L	-	-	115?	-	-
2003-Y05	2452664.05	2003 Jan 24 1311	Super Loki	-	ES03SL13	MM-LFS-	-	-	-	ESR	L	-	-	107	-	-
2003-Y06	2452664.09	2003 Jan 24 1403	Super Loki	-	ES03SL14	MM-LFS-	-	-	-	ESR	L	-	-	103	-	-
2003-Y07	2452664.13	2003 Jan 24 1505	Super Loki	-	ES03SL15	MM-LFS-	-	-	-	ESR	L	-	-	110	-	-
2003-Y08	2452664.17	2003 Jan 24 1600	Super Loki	-	ES03SL16	MM-LFS-	-	-	-	ESR	L	-	-	106	-	-
2003-Y09	2452664.21	2003 Jan 24 1700	Super Loki	-	ES03SL17	MM-LFS-	-	-	-	ESR	L	-	-	114	-	-
2003-Y10	2452664.25	2003 Jan 24 1800	Super Loki	-	ES03SL18	MM-LFS-	-	-	-	ESR	L	-	-	115	-	-
2003-Y11	2452664.29	2003 Jan 24 1901	Super Loki	-	ES03SL19	MM-LFS-	-	-	-	ESR	L	-	-	106	-	-
2003-Y12	2452664.33	2003 Jan 24 2000	Super Loki	-	ES03SL20	MM-LFS-	-	-	-	ESR	L	-	-	109	-	-
2003-Y13	2452664.38	2003 Jan 24 2102	Super Loki	-	ES03SL21	MM-LFS-	-	-	-	ESR	L	-	-	113	-	-
2003-Y14	2452664.42	2003 Jan 24 2200	Super Loki	-	ES03SL22	MM-LFS-	-	-	-	ESR	L	-	-	106	-	-
2003-Y15	2452664.46	2003 Jan 24 2300	Super Loki	-	ES03SL24	MM-LFS-	-	-	-	ESR	L	-	-	91	-	-
2003-Y23	2452664.50	2003 Jan 25 0000	Super Loki	-	ES03SL25	MM-LFS-	-	-	-	ESR	L	-	-	117	-	-
2003-Y24	2452664.54	2003 Jan 25 0058	Super Loki	-	ES03SL26	MM-LFS-	-	-	-	ESR	L	-	-	114	-	-
2003-Y49	2452666.04	2003 Jan 26 1300	Super Loki	-	ES03SL26?	MM-LFS-	-	-	-	ESR	L	-	-	111	-	-
2003-Y50	2452667.04	2003 Jan 27 1300	Super Loki	-	ES03SL27?	MM-LFS-	-	-	-	ESR	L	-	-	120	-	-
2003-Y51	2452667.13	2003 Jan 27 1505	Super Loki	-	ES03SL28?	MM-LFS-	-	-	-	ESR	L	-	-	99	-	-
2003-Y52	2452667.16	2003 Jan 27 1545	Super Loki	-	ES03SL29?	MM-LFS-	-	-	-	ESR	L	-	-	115?	-	-
2003-Y53	2452667.19	2003 Jan 27 1633	Super Loki	-	ES03SL30?	MM-LFS-	-	-	-	ESR	L	-	-	115?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2003-Y54	2452667.31	2003 Jan 27 1926	Super Loki	-	ES03SL31?	MM-LFS-	-	-	-	ESR	L	-	-	117	-	-
2003-Y55	2452667.32	2003 Jan 27 1938	Super Loki	-	ES03SL32?	MM-LFS-	-	-	-	ESR	L	-	-	115?	-	-
2003-Y16	2452668.04	2003 Jan 28 1300	Super Loki	-	ES03SL34	MM-LFS-	-	-	-	ESR	L	-	-	115	-	-
2003-Y17	2452668.13	2003 Jan 28 1504	Super Loki	-	ES03SL35	MM-LFS-	-	-	-	ESR	L	-	-	115	-	-
2003-Y18	2452668.16	2003 Jan 28 1557	Super Loki	-	ES03SL36	MM-LFS-	-	-	-	ESR	L	-	-	116	-	-
2003-Y30	2452668.21	2003 Jan 28 1656	Super Loki	-	ES03SL33?	MM-LFS-	-	-	-	ESR	L	-	-	120	-	-
2003-Y19	2452668.21	2003 Jan 28 1705	Super Loki	-	ES03SL38	MM-LFS-	-	-	-	ESR	L	-	-	115	-	-
2003-Y20	2452668.25	2003 Jan 28 1757	Super Loki	-	ES03SL39	MM-LFS-	-	-	-	ESR	L	-	-	117	-	-
2003-Y21	2452668.28	2003 Jan 28 1842	Super Loki	-	ES03SL41	MM-LFS-	-	-	-	ESR	L	-	-	108	-	-
2003-Y22	2452668.32	2003 Jan 28 1942	Super Loki	-	ES03SL42	MM-LFS-	-	-	-	ESR	L	-	-	114	-	-
2003-Y25	2452669.04	2003 Jan 29 1300	Super Loki	-	-	MM-LFS-	-	-	-	ESR	L	-	-	113	-	-
2003-Y26	2452670.04	2003 Jan 30 1300	Super Loki	-	-	MM-LFS-	-	-	-	ESR	L	-	-	117	-	-
2003-Y27	2452670.05	2003 Jan 30 1312	Super Loki	-	-	SAGE-3	-	-	-	ESR	L	-	-	112	-	-
2003-Y28	2452670.38	2003 Jan 30 2110	Super Loki	-	-	SAGE-3	-	-	-	ESR	L	-	-	107	-	-
2003-Y29	2452670.41	2003 Jan 30 2155	Super Loki	-	-	SAGE-3	-	-	-	ESR	L	-	-	114	-	-
2003-Y31	2452670.42	2003 Jan 30 2203	Super Loki	-	-	SAGE-3	-	-	-	ESR	L	-	-	96	-	-
2003-Y34	2452860.10	2003 Aug 8 1430	Shadow 1	-	1	Shadow	-	-	-	SPFL	LC47	-	-	110?	-	-
2003-Y35	2452860.15	2003 Aug 8 1530	Shadow 1	-	2	Shadow	-	-	-	SPFL	LC47	-	-	110?	-	-
2003-Y36	2452863.50	2003 Aug 12	Super Loki	-	-	Irish School Expt	-	-	-	SPFL	LC47	-	-	110?	-	-
2003-W01	2452950.50	2003 Nov 7	Super Loki	-	-	Demo	-	-	-	SPFL	LC47	-	-	60?	-	-
2004-Y01	2453250.10	2004 Sep 1 1430	Shadow 1	-	Shadow 1B	PWN-10X	-	-	-	SPFL	LC47	-	-	110?	-	-
2005-Y01	2453380.65	2005 Jan 10 0329	Super Loki	-	-	SSC MAGIC support	-	-	-	ESR	L	-	-	85	-	-
2005-Y02	2453380.75	2005 Jan 10 0600	Super Loki	-	-	SSC MAGIC support	-	-	-	ESR	L	-	-	77	-	-
2005-Y03	2453380.79	2005 Jan 10 0703	Super Loki	-	-	SSC MAGIC support	-	-	-	ESR	L	-	-	80	-	-
2005-Y09	2453389.08	2005 Jan 18 1358:00	Super Loki	-	-	ROMA 2005 RWCH05	-	-	-	AND	-	-	-	100?	-	-
2005-Y12	2453389.17	2005 Jan 18 1607	Super Loki	-	-	ROMA 2005 RWCH08	-	-	-	AND	-	-	-	100?	-	-
2005-Y15	2453389.25	2005 Jan 18 1757	Super Loki	-	-	ROMA 2005 RWCH11	-	-	-	AND	-	-	-	100?	-	-
2005-Y18	2453390.89	2005 Jan 20 0916	Super Loki	-	-	ROMA 2005 RWCH14	-	-	-	AND	-	-	-	100?	-	-
2006-A01	2453873.08	2006 May 17 1400	Super Loki	-	Genesis test	-	-	-	-	SPFL	LC47	-	-	47	-	-
2006-Y01	2453894.93	2006 Jun 8 1020	Super Loki	-	-	Langmuir probe dart	-	-	-	WI	-	-	-	80?	-	-
2007-A14	2454440.17	2007 Dec 5 1606:25	Shadow 1	-	Shadow 1B	Space Express	-	-	-	WS	-	-	-	40?	-	-
2008-S73	2454732.06	2008 Sep 22 1330	Super Loki	-	-	PWN-12A	-	-	-	SPFL	LC47	-	-	50?	-	-
2009-S21	2454938.97	2009 Apr 17 1118	FalconLaunch	-	FalconLaunch 7	-	-	-	-	WS	-	-	-	108	-	-
2013-S67	2456469.50	2013 Jun 26	Super Loki	-	-	WADIS SL1	-	-	-	AND	-	-	-	100?	-	-
2013-S69	2456470.50	2013 Jun 27?	Super Loki	-	-	WADIS SL2	-	-	-	AND	-	-	-	100?	-	-
2013-S70	2456470.50	2013 Jun 27?	Super Loki	-	-	WADIS SL3	-	-	-	AND	-	-	-	100?	-	-
2013-S71	2456470.50	2013 Jun 27?	Super Loki	-	-	WADIS SL4	-	-	-	AND	-	-	-	100?	-	-
2013-S72	2456470.50	2013 Jun 27?	Super Loki	-	-	WADIS SL5	-	-	-	AND	-	-	-	100?	-	-
2013-S73	2456471.50	2013 Jun 28?	Super Loki	-	-	WADIS SL6	-	-	-	AND	-	-	-	100?	-	-
2013-S74	2456472.50	2013 Jun 29?	Super Loki	-	-	WADIS SL7	-	-	-	AND	-	-	-	100?	-	-
2013-S75	2456473.50	2013 Jun 30?	Super Loki	-	-	WADIS SL8	-	-	-	AND	-	-	-	100?	-	-
2013-S76	2456474.50	2013 Jul 1?	Super Loki	-	-	WADIS SL9	-	-	-	AND	-	-	-	100?	-	-
2013-S77	2456475.50	2013 Jul 2?	Super Loki	-	-	WADIS SL10	-	-	-	AND	-	-	-	100?	-	-
2013-S78	2456476.50	2013 Jul 3?	Super Loki	-	-	WADIS SL11	-	-	-	AND	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-Y23	2439968.50	1968 Apr 22	Super Loki	-	Test 1	0.000	MSFC	SS	-	MSFC/?	Test	CR-61238	-	-
1968-Y27	2439983.19	1968 May 6 1632	Super Loki	-	Test 2	0.000	MSFC	SS	-	MSFC/?	Test	CR-61238	-	-
1968-Y25	2439982.50	1968 May 6	Super Loki	-	Test 3	0.000	MSFC	SS	-	MSFC/?	Test	CR-61238	-	-
1968-Y28	2439996.50	1968 May 20	Super Loki	-	Test 4	0.000	MSFC	SS	-	MSFC/?	Test	CR-61238	-	-
1968-Y29	2439996.50	1968 May 20	Super Loki	-	Test 5	0.000	MSFC	SS	-	MSFC/?	Test	CR-61238	-	-
1968-W246	2440181.45	1968 Nov 20 2245:00	Super Loki	-	-	0.000	MSFC?	SS	-	MSFC/?	Aeron	WDCRF	-	-
1968-W272	2440210.25	1968 Dec 19 1800:00	Super Loki	-	-	0.000	MSFC?	SS	-	MSFC/?	Aeron	WDCRF	-	-
1968-W273	2440210.30	1968 Dec 19 1910:00	Super Loki	-	-	0.000	MSFC?	SS	-	MSFC/?	Aeron	WDCRF	-	-
1969-Y50	2440246.62	1969 Jan 25 0300	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y62	2440249.42	1969 Jan 27 2200	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y101	2440272.31	1969 Feb 19 1930	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y121	2440332.68	1969 Apr 21 0415	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y136	2440352.79	1969 May 11 0700	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y186	2440399.50	1969 Jun 27	Super Loki	-	-	0.000	MSFC?	SS	-	MSFC/?	Aeron	www.flatoday.com	-	-
1970-W521	2440687.35	1970 Apr 10 2020:00	Super Loki	-	-	0.000	MRN	SU	-	-	Aeron	WDCRF	-	-
1970-W526	2440688.40	1970 Apr 11 2143:00	Super Loki	-	-	0.000	MRN	SU	-	-	Aeron	WDCRF	-	-
1970-W1465	2440866.28	1970 Oct 06 1840:00	Super Loki	-	AFCRL 70-1	0.000	AFCRL	SU	-	AFCRL/Griffin	Test	WDCRF	-	-
1970-W1474	2440867.17	1970 Oct 07 1600:00	Super Loki	-	AFCRL 70-2	0.000	AFCRL	SU	-	AFCRL/Griffin	Test	WDCRF	-	-
1970-W1479	2440868.04	1970 Oct 08 1300:00	Super Loki	-	AFCRL 70-3	0.000	AFCRL	SU	-	AFCRL/Griffin	Test	WDCRF	-	-
1970-W1480	2440868.14	1970 Oct 08 1515:00	Super Loki	-	AFCRL 70-4	0.000	AFCRL	SU	-	AFCRL/Griffin	Test	WDCRF	-	-
1970-W1481	2440868.18	1970 Oct 08 1623:00	Super Loki	-	AFCRL 70-5	0.000	AFCRL	SU	-	AFCRL/Griffin	Test	WDCRF	-	-
1972-S448	2441419.55	1972 Apr 12 0105	Super Loki	-	-	0.000	AFCRL	SS	-	AFCRL/Faire	Aeron	SR14,97	-	-
1972-S455	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6160 SSL 1-1	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1972-S456	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6161 SSL 1-2	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1972-S457	2441579.50	1972 Sep 19	Stable Super Loki	-	D1-6162 SSL 1-3	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1972-S458	2441592.50	1972 Oct 2	Stable Super Loki	-	D1-6163 SSL 1-8	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S464	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6168 SSL 2-9	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S465	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6169 SSL 2-10	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S466	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6170 SSL 2-11	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S467	2441691.50	1973 Jan 9	Stable Super Loki	-	D1-6171 SSL 2-12	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S468	2441770.50	1973 Mar 29	Stable Super Loki	-	D1-6172 SSL 3-13	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S469	2441770.50	1973 Mar 29	Stable Super Loki	-	D1-6173 SSL 3-14	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M16	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6175 SSL 3-16	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M17	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6176 SSL 3-17	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S470	2441771.50	1973 Mar 30	Stable Super Loki	-	D1-6177 SSL 3-18	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M18	2441831.50	1973 May 29	Stable Super Loki	-	D1-6178 SSL 3-15	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M19	2441774.50	1973 Apr 2	Stable Super Loki	-	D1-6478 SSL 3-19	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-A81	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6179 SSL 4-20	0.000	AFCRL	SF	U	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M20	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6180 SSL 4-21	0.000	AFCRL	SF	U	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M21	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6181 SSL 4-22	0.000	AFCRL	SF	U	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M22	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6182 SSL 4-23	0.000	AFCRL	SF	U	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-M23	2441854.50	1973 Jun 21	Stable Super Loki	-	D1-6183 SSL 4-24	0.000	AFCRL	SF	U	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S471	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6184 SSL 4-25	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S472	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6185 SSL 4-26	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S473	2441855.50	1973 Jun 22	Stable Super Loki	-	D1-6186 SSL 4-27	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S474	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6187 SSL 4-28	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S475	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6188 SSL 4-29	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-S476	2441859.50	1973 Jun 26	Stable Super Loki	-	D1-6189 SSL 4-30	0.000	AFCRL	SS	-	SDCO/	Test	AFCRL-TR-73-0412	-	-
1973-W846	2441863.50	1973 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W847	2441863.50	1973 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-Y292	2441881.21	1973 Jul 17 1658:00	Super Loki	-	T 1-6682	0.000	WFF	SU	-	WFF/Schmidlin	Test	WDCRF	-	-
1973-Y294	2441881.25	1973 Jul 17 1801:00	Super Loki	-	T 1-6684	0.000	WFF	SU	-	WFF/Schmidlin	Test	WDCRF	-	-
1973-W896	2441880.50	1973 Jul 17?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W897	2441880.50	1973 Jul 17?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W898	2441880.50	1973 Jul 17?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W899	2441880.50	1973 Jul 17?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W900	2441880.50	1973 Jul 17?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W904	2441881.50	1973 Jul 18?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W905	2441881.50	1973 Jul 18?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W906	2441881.50	1973 Jul 18?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W907	2441881.50	1973 Jul 18?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-W908	2441881.50	1973 Jul 18?	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	SP-4018	-	-
1973-Y296	2441881.63	1973 Jul 18 0314:00	Super Loki	-	G 1-6687	0.000	MRN	SU	-	UNK?/Fisher,E	Test	WDCRF	-	-
1973-Y297	2441881.71	1973 Jul 18 0502:00	Super Loki	-	G 1-6689	0.000	MRN	SU	-	UNK?/Fisher,E	Test	WDCRF	-	-
1973-Y298	2441881.77	1973 Jul 18 0628:00	Super Loki	-	T 1-6692	0.000	WFF	SU	-	WFF/Schmidlin	Test	WDCRF	-	-
1973-W960	2441894.50	1973 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W961	2441894.50	1973 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W962	2441894.50	1973 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1109	2441925.50	1973 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1110	2441925.50	1973 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1111	2441925.50	1973 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1182	2441944.18	1973 Sep 18 1624:59	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1188	2441945.14	1973 Sep 19 1521:00	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1633	2441946.08	1973 Sep 20 1349	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1195	2441946.18	1973 Sep 20 1624:59	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1634	2441946.64	1973 Sep 21 0328	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1635	2441947.13	1973 Sep 21 1513	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1636	2441947.67	1973 Sep 22 0402	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1637	2441950.22	1973 Sep 24 1710	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1638	2441950.51	1973 Sep 25 0019	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1217	2441951.18	1973 Sep 25 1624:59	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1639	2441951.25	1973 Sep 25 1800	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1640	2441951.57	1973 Sep 26 0139	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1641	2441952.09	1973 Sep 26 1404	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1221	2441952.14	1973 Sep 26 1514:59	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1642	2441953.12	1973 Sep 27 1458	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-W1228	2441953.18	1973 Sep 27 1624:59	Super Loki	-	-	0.000	MRN	SS	-	USAF/	Meteo	DSI-5850	-	-
1973-W1643	2441953.61	1973 Sep 28 0233	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1644	2441954.62	1973 Sep 29 0252	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1654	2441956.65	1973 Oct 1 0330	Super Loki	-	CIMO	0.000	NOAA	SS	-	NOAA/	Meteo	SR15,143	-	-
1973-W1236	2441955.50	1973 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1237	2441955.50	1973 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1250	2441958.18	1973 Oct 2 1624:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1257	2441959.19	1973 Oct 3 1640:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1265	2441960.18	1973 Oct 4 1624:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1275	2441965.18	1973 Oct 9 1624:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1284	2441966.20	1973 Oct 10 1641:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1292	2441968.11	1973 Oct 12 1441:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1305	2441972.18	1973 Oct 16 1624:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1312	2441973.14	1973 Oct 17 1527:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1324	2441975.14	1973 Oct 19 1517:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1339	2441980.12	1973 Oct 24 1446:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1346	2441982.14	1973 Oct 26 1521:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1357	2441986.18	1973 Oct 30 1624:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1370	2441987.17	1973 Oct 31 1606:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1973-W1363	2441986.50	1973 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1364	2441986.50	1973 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1365	2441986.50	1973 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1366	2441986.50	1973 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1482	2442016.50	1973 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1483	2442016.50	1973 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1484	2442016.50	1973 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1973-W1485	2442016.50	1973 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W03	2442047.50	1974 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W04	2442047.50	1974 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W05	2442047.50	1974 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W06	2442047.50	1974 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W07	2442047.50	1974 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-Y16	2442064.04	1974 Jan 16 1300	Super Loki	-	INTA SHR-7401	0.000	DLR	SS	-	INTA/	Aeron	Moraba	ElAren	-
1974-W145	2442078.50	1974 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W146	2442078.50	1974 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W147	2442078.50	1974 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W234	2442100.14	1974 Feb 21 1521:00	Super Loki	-	G 1-6480	0.000	WFF	SS	-	WFF/?	Test	WDCRF	-	-
1974-W266	2442106.50	1974 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W267	2442106.50	1974 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W268	2442106.50	1974 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W269	2442106.50	1974 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W354	2442126.12	1974 Mar 19 1500	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W356	2442126.13	1974 Mar 19 1501	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W358	2442126.17	1974 Mar 19 1600	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W361	2442126.17	1974 Mar 19 1605	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W362	2442126.25	1974 Mar 19 1800	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W364	2442126.26	1974 Mar 19 1820	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W366	2442126.29	1974 Mar 19 1900	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W370	2442126.33	1974 Mar 19 1954	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W371	2442126.38	1974 Mar 19 2100	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W372	2442126.38	1974 Mar 19 2100	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W376	2442126.42	1974 Mar 19 2200	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W378	2442126.43	1974 Mar 19 2220	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W379	2442126.50	1974 Mar 20 0000	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W381	2442126.50	1974 Mar 20 0005	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W382	2442126.51	1974 Mar 20 0021	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W384	2442126.53	1974 Mar 20 0047	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W385	2442126.54	1974 Mar 20 0100	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W388	2442126.55	1974 Mar 20 0108	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W389	2442126.62	1974 Mar 20 0300	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W390	2442126.62	1974 Mar 20 0300	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W394	2442126.67	1974 Mar 20 0400	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W395	2442126.70	1974 Mar 20 0453	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W396	2442126.75	1974 Mar 20 0600	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W398	2442126.75	1974 Mar 20 0600	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W401	2442126.79	1974 Mar 20 0700	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W402	2442126.80	1974 Mar 20 0706	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W406	2442126.88	1974 Mar 20 0900	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W407	2442126.88	1974 Mar 20 0900	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W409	2442126.92	1974 Mar 20 1000	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W411	2442126.92	1974 Mar 20 1000	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W413	2442126.94	1974 Mar 20 1040	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W414	2442127.00	1974 Mar 20 1200	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W416	2442127.00	1974 Mar 20 1200	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W417	2442127.03	1974 Mar 20 1240	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W418	2442127.04	1974 Mar 20 1303	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W422	2442127.12	1974 Mar 20 1500	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-W423	2442127.12	1974 Mar 20 1500	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W424	2442127.17	1974 Mar 20 1600	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	DSI-5850	-
1974-W426	2442127.19	1974 Mar 20 1639	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	SP-3095	-	-
1974-M06	2442127.91	1974 Mar 21 0951	Super Loki	-	-	0.000	WFC	SS	-	WFF/MISU/	Aeron	JGR87.7228	-	-
1974-W554	2442160.53	1974 Apr 23 0041:00	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W559	2442162.18	1974 Apr 24 1615:59	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W574	2442164.16	1974 Apr 26 1555:00	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W582	2442167.11	1974 Apr 29 1442:00	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W599	2442169.15	1974 May 1 1530:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W606	2442171.11	1974 May 3 1445:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W631	2442174.11	1974 May 6 1442:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W636	2442175.19	1974 May 7 1634:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W645	2442177.16	1974 May 9 1549:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W661	2442182.19	1974 May 14 1634:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W666	2442183.14	1974 May 15 1514:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W676	2442185.17	1974 May 17 1609:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W689	2442190.14	1974 May 22 1517:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W701	2442192.18	1974 May 24 1614:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W704	2442195.11	1974 May 27 1438:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W712	2442197.14	1974 May 29 1518:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W729	2442199.18	1974 May 31 1614:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W736	2442202.17	1974 Jun 3 1559:59	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W745	2442204.14	1974 Jun 5 1522:59	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W761	2442206.18	1974 Jun 7 1619:59	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W782	2442211.14	1974 Jun 12 1519:00	Super Loki	?	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1974-W844	2442228.24	1974 Jun 29 1740:00	Super Loki	-	T 1-7328	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W845	2442228.31	1974 Jun 29 1930:00	Super Loki	-	T 1-7329	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W847	2442228.36	1974 Jun 29 2035:00	Super Loki	-	T 1-3330	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W849	2442228.40	1974 Jun 29 2140:00	Super Loki	-	T 1-7331	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W850	2442228.48	1974 Jun 29 2330:00	Super Loki	-	T 1-7332	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W861	2442228.58	1974 Jun 30 0200:00	Super Loki	-	T 1-7333	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W863	2442228.70	1974 Jun 30 0455:00	Super Loki	-	T 1-7334	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W864	2442228.76	1974 Jun 30 0620:00	Super Loki	-	T 1-7335	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W866	2442228.81	1974 Jun 30 0720:00	Super Loki	-	T 1-7336	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W868	2442228.88	1974 Jun 30 0910:00	Super Loki	-	T 1-7337	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W870	2442228.93	1974 Jun 30 1020:00	Super Loki	-	T 1-7338	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W871	2442228.97	1974 Jun 30 1110:00	Super Loki	-	T 1-7339	0.000	WFF	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W873	2442229.07	1974 Jun 30 1345:00	Super Loki	-	T 1-7340	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W876	2442229.21	1974 Jun 30 1700:00	Super Loki	-	T 1-7341	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1974-W856	2442228.50	1974 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W857	2442228.50	1974 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W858	2442228.50	1974 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W859	2442228.50	1974 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W972	2442259.10	1974 Jul 30 1422:00	Super Loki	-	G 1-7460	0.000	WFF	SU	-	WFF/Wright	Test/Aeron	WDCRF	-	-
1974-W974	2442259.22	1974 Jul 30 1716:00	Super Loki	-	G 1-7461	0.000	WFF	SU	-	WFF/Wright	Test/Aeron	WDCRF	-	-
1974-W975	2442259.29	1974 Jul 30 1900:00	Super Loki	-	G 1-7462	0.000	WFF	SU	-	WFF/Wright	Test/Aeron	WDCRF	-	-
1974-W980	2442259.50	1974 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W981	2442259.50	1974 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W982	2442259.50	1974 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W983	2442259.50	1974 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1114	2442290.50	1974 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1115	2442290.50	1974 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1116	2442290.50	1974 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1117	2442290.50	1974 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1247	2442320.50	1974 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1248	2442320.50	1974 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1249	2442320.50	1974 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1379	2442351.50	1974 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1380	2442351.50	1974 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1381	2442351.50	1974 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1382	2442351.50	1974 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1496	2442381.50	1974 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1497	2442381.50	1974 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1974-W1498	2442381.50	1974 Dec	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W03	2442412.50	1975 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W04	2442412.50	1975 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W05	2442412.50	1975 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W47	2442430.38	1975 Jan 17 2100	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR75-2	SP-4020	-
1975-W48	2442430.41	1975 Jan 17 2150	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR75-2	SP-4020	-
1975-W61	2442430.50	1975 Jan 18 0001	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR75-2	SP-4020	-
1975-W68	2442430.51	1975 Jan 18 0012	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR75-2	SP-4020	-
1975-W69	2442430.55	1975 Jan 18 0114	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WI-PR75-2	SP-4020	-
1975-W115	2442443.50	1975 Feb	Super Loki	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W116	2442443.50	1975 Feb	Super Loki	?	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W199	2442464.26	1975 Feb 20 1811:00	Super Loki	-	G 1-7753	0.000	WFF	SU	-	WFF/Wright	Test	WDCRF	-	-
1975-W201	2442464.31	1975 Feb 20 1927:00	Super Loki	-	G 1-7754	0.000	WFF	SU	-	WFF/Wright	Test	WDCRF	-	-
1975-W211	2442465.30	1975 Feb 21 1910:00	Super Loki	-	G 1-7755	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W241	2442471.50	1975 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W242	2442471.50	1975 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W243	2442471.50	1975 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W385	2442502.50	1975 Apr	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W419	2442510.29	1975 Apr 07 1851:00	Super Loki	-	G 1-7756	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W502	2442532.50	1975 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W503	2442532.50	1975 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W504	2442532.50	1975 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W505	2442532.50	1975 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W608	2442557.10	1975 May 24 1424:00	Super Loki	-	GU1-7743	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W609	2442557.29	1975 May 24 1900:00	Super Loki	-	GU1-7742	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W610	2442558.32	1975 May 25 1944:00	Super Loki	-	GU1-7744	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W649	2442563.50	1975 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W650	2442563.50	1975 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W651	2442563.50	1975 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W652	2442563.50	1975 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-S396	2442589.00	1975 Jun 25 1157	Super Loki	-	INTA SLW-7501	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1975-S397	2442594.98	1975 Jul 1 1125	Super Loki	-	INTA SLW-7502	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-W750	2442593.50	1975 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W751	2442593.50	1975 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W752	2442593.50	1975 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W753	2442593.50	1975 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W754	2442593.50	1975 Jul	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W846	2442623.22	1975 Jul 29 1717:00	Super Loki	-	T 1-7959	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W857	2442624.50	1975 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W858	2442624.50	1975 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W859	2442624.50	1975 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W860	2442624.50	1975 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W904	2442636.20	1975 Aug 11 1651	Super Loki	-	T 1-8409	0.000	WFF	SS	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W979	2442655.50	1975 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W980	2442655.50	1975 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W981	2442655.50	1975 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W982	2442655.50	1975 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-S398	2442658.97	1975 Sep 3 1120	Super Loki	-	INTA SLW-7503	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1975-W1090	2442685.50	1975 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1091	2442685.50	1975 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1092	2442685.50	1975 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1093	2442685.50	1975 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1094	2442685.50	1975 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1975-W1434	2442734.50	1975 Nov 18	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1435	2442734.50	1975 Nov 18	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1436	2442734.50	1975 Nov 18	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1286	2442735.15	1975 Nov 18 1532:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1437	2442735.50	1975 Nov 19	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1438	2442735.50	1975 Nov 19	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1439	2442735.50	1975 Nov 19	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-S399	2442736.00	1975 Nov 19 1200	Super Loki	-	INTA SLW-7504	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1975-W1293	2442736.22	1975 Nov 19 1716:00	Super Loki	-	G 1-7935	0.000	WFC	SS	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-W1295	2442736.25	1975 Nov 19 1800:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1440	2442737.50	1975 Nov 21	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1441	2442737.50	1975 Nov 21	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1442	2442737.50	1975 Nov 21	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1443	2442737.50	1975 Nov 21	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1444	2442737.50	1975 Nov 21	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-Y339	2442737.66	1975 Nov 21 0345:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1445	2442749.50	1975 Dec 3	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1446	2442749.50	1975 Dec 3	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1447	2442749.50	1975 Dec 3	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1341	2442750.15	1975 Dec 3 1532:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1343	2442750.23	1975 Dec 3 1726:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-W1448	2442750.50	1975 Dec 4	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1449	2442750.50	1975 Dec 4	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1450	2442750.50	1975 Dec 4	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1451	2442750.50	1975 Dec 4	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1452	2442750.50	1975 Dec 4	Super Loki	-	-	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WI-PR75-14	-	-
1975-W1347	2442750.75	1975 Dec 4 0600:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1975-S400	2442764.00	1975 Dec 17 1200	Super Loki	-	INTA SLW-7505	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1975-A76	2442767.18	1975 Dec 20 1624:00	Super Loki	-	FLIGHT 120	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1975-S401	2442777.95	1975 Dec 31 1046	Super Loki	-	INTA SLW-7506	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W1902	2442780.17	1976 Jan 2 1559	Super Loki	-	INTA SLW-7601	0.000	INTA	SS	-	INTA/Cisneros	Meteo	ElAren	SR19,133	-
1976-S395	2442782.20	1976 Jan 4 1652	Super Loki	-	INTA SLW-7602	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S396	2442784.19	1976 Jan 6 1640	Super Loki	-	INTA SLW-7603	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S397	2442786.00	1976 Jan 8 1200	Super Loki	-	INTA SLW-7604	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S398	2442787.16	1976 Jan 9 1553	Super Loki	-	INTA SLW-7605	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S399	2442790.08	1976 Jan 12 1350	Super Loki	-	INTA SLW-7606	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S400	2442792.08	1976 Jan 14 1350	Super Loki	-	INTA SLW-7607	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S401	2442798.16	1976 Jan 20 1550	Super Loki	-	INTA SLW-7608	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W93	2442799.06	1976 Jan 21 1332:00	Super Loki	-	T 1-8161	0.000	WFF	SU	-	WFF/Krueger	Test/Aeron	WDCRF	-	-
1976-S402	2442799.19	1976 Jan 21 1640	Super Loki	-	INTA SLW-7609	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S403	2442800.16	1976 Jan 22 1556	Super Loki	-	INTA SLW-7610	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W1899	2442800.27	1976 Jan 22 1835	Super Loki	-	-	0.000	GSFC	SS	-	PSU/Hale	Ionos	SR17,191	-	-
1976-S404	2442801.16	1976 Jan 23 1550	Super Loki	-	INTA SLW-7611	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S405	2442802.17	1976 Jan 24 1600	Super Loki	-	INTA SLW-7612	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S406	2442802.20	1976 Jan 24 1641	Super Loki	-	INTA SLW-7613	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S407	2442804.17	1976 Jan 26 1559	Super Loki	-	INTA SLW-7614	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S408	2442806.16	1976 Jan 28 1550	Super Loki	-	INTA SLW-7615	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-S409	2442808.15	1976 Jan 30 1538	Super Loki	-	INTA SLW-7616	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W153	2442808.50	1976 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W154	2442808.50	1976 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W174	2442812.20	1976 Feb 03 1649:00	Super Loki	-	FLIGHT 122	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W178	2442813.10	1976 Feb 04 1431:00	Super Loki	-	FLIGHT 123	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-S410	2442814.18	1976 Feb 5 1626	Super Loki	-	INTA SLW-7617	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W191	2442814.31	1976 Feb 05 1928:00	Super Loki	-	FLIGHT 124	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W194	2442815.17	1976 Feb 06 1607:00	Super Loki	-	FLIGHT 125	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-S411	2442817.18	1976 Feb 8 1620	Super Loki	-	INTA SLW-7618	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1976-W315	2442837.50	1976 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W316	2442837.50	1976 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W317	2442837.50	1976 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W423	2442855.23	1976 Mar 17 1730:00	Super Loki	-	T 1-8198	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W562	2442883.20	1976 Apr 14 1643:00	Super Loki	-	T 1-8199	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1976-W640	2442898.50	1976 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W641	2442898.50	1976 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W642	2442898.50	1976 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W643	2442898.50	1976 May	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-W758	2442918.23	1976 May 19 1734:00	Super Loki	-	T 1-8286	0.000	WFC	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W763	2442918.32	1976 May 19 1937:00	Super Loki	-	T 1-8288	0.000	WFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W768	2442919.21	1976 May 20 1702:00	Super Loki	-	T 1-8287	0.000	WFC	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W812	2442929.50	1976 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W813	2442929.50	1976 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W814	2442929.50	1976 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W815	2442929.50	1976 Jun	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-S421	2442932.14	1976 Jun 2 1523	Super Loki	-	-	0.000	WFC	SS	-	UDAYT/Luers	Aeron/Test	CR-2968	-	-
1976-W908	2442953.21	1976 Jun 23 1701:00	Super Loki	-	T 1-8332	0.000	WFC	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W924	2442959.11	1976 Jun 29 1437:00	Super Loki	-	T 1-8289	0.000	WFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W981	2442974.25	1976 Jul 14 1754:00	Super Loki	-	T 1-8333	0.000	WFC	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W1054	2442990.50	1976 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1055	2442990.50	1976 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1056	2442990.50	1976 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1057	2442990.50	1976 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1058	2442990.50	1976 Aug	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1183	2443015.12	1976 Aug 24 1458:00	Super Loki	-	T 1-8439	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1190	2443016.11	1976 Aug 25 1445:00	Super Loki	-	T 1-8440	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1197	2443017.12	1976 Aug 26 1457:00	Super Loki	-	T 1-8437	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1200	2443017.17	1976 Aug 26 1604:00	Super Loki	-	T 1-8450	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1216	2443021.50	1976 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1217	2443021.50	1976 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1218	2443021.50	1976 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1219	2443021.50	1976 Sep	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1279	2443031.09	1976 Sep 09 1416:00	Super Loki	-	T 1-8454	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1282	2443031.15	1976 Sep 09 1530:00	Super Loki	-	T 1-8455	0.000	GSFC	SU	-	PSU/Hale	Ionos	WDCRF	-	-
1976-W1339	2443044.17	1976 Sep 22 1600:00	Super Loki	-	T 1-8401	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W1379	2443050.32	1976 Sep 28 1947:00	Super Loki	-	TM1-8521	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W1393	2443051.50	1976 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1394	2443051.50	1976 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1395	2443051.50	1976 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1396	2443051.50	1976 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1397	2443051.50	1976 Oct	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1413	2443053.30	1976 Oct 01 1915:00	Super Loki	-	TM1-8522	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1976-W1505	2443073.21	1976 Oct 21 1700:00	Super Loki	-	T 1-8402	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1976-W1553	2443082.50	1976 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1554	2443082.50	1976 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1555	2443082.50	1976 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1556	2443082.50	1976 Nov	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1976-W1611	2443093.01	1976 Nov 10 1215:00	Super Loki	-	T 1-8404	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1976-W1626	2443094.01	1976 Nov 11 1216:00	Super Loki	-	T 1-8407	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1976-W1628	2443094.08	1976 Nov 11 1400:00	Super Loki	-	T 1-8403	0.000	WFF	SU	-	WFF/Wright	Test	WDCRF	-	-
1976-W1657	2443100.19	1976 Nov 17 1633:00	Super Loki	-	T 1-8406	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1976-W1656	2443100.18	1976 Nov 17 1621:00	Super Loki	-	T 1-8405	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1976-W1751	2443117.04	1976 Dec 04 1253:00	Super Loki	-	FLIGHT-141	0.000	WFF	SS	-	WFF/Wright	Aeron	WDCRF	WDCRR	-
1976-W1752	2443117.09	1976 Dec 4 1404:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1753	2443119.09	1976 Dec 06 1410:00	Super Loki	-	FLIGHT-142	0.000	WFF	SS	-	WFF/Wright	Aeron	WDCRF	WDCRR	-
1976-S447	2443125.25	1976 Dec 12 1800	Super Loki	-	-	0.000	WFF	SS	-	WFF/Wright	Aeron	TM-69365	-	-
1976-S445	2443126.30	1976 Dec 13 1918	Super Loki	-	T 1-8412	0.000	WFF	SS	-	WFF/Wright	Aeron	TM-69365	-	-
1976-S446	2443126.35	1976 Dec 13 2017	Super Loki	-	T 1-8413	0.000	WFF	SS	-	WFF/Wright	Aeron	TM-69365	-	-
1976-W1860	2443135.14	1976 Dec 22 1514:59	Super Loki	-	T1-8599	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1976-W1863	2443135.17	1976 Dec 22 1604:00	Super Loki	-	T 1-8408	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1977-W01	2443143.50	1977 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W02	2443143.50	1977 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W03	2443143.50	1977 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W04	2443143.50	1977 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-S361	2443160.98	1977 Jan 17 1136	Super Loki	-	INTA SLW-7701	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S362	2443162.98	1977 Jan 19 1133	Super Loki	-	INTA SLW-7702	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S363	2443163.01	1977 Jan 19 1208	Super Loki	-	INTA SLW-7703	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W118	2443163.15	1977 Jan 19 1535:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W123	2443163.23	1977 Jan 19 1730:00	Super Loki	-	T 1-8414	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S364	2443164.98	1977 Jan 21 1134	Super Loki	-	INTA SLW-7704	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S365	2443167.98	1977 Jan 24 1131	Super Loki	-	INTA SLW-7705	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S366	2443168.00	1977 Jan 24 1200	Super Loki	-	INTA SLW-7706	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S367	2443169.98	1977 Jan 26 1134	Super Loki	-	INTA SLW-7707	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S368	2443170.01	1977 Jan 26 1221	Super Loki	-	INTA SLW-7708	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S369	2443171.98	1977 Jan 28 1133	Super Loki	-	INTA SLW-7709	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S370	2443175.00	1977 Jan 31 1155	Super Loki	-	INTA SLW-7710	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W225	2443174.50	1977 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W226	2443174.50	1977 Feb	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-S416	2443176.98	1977 Feb 2 1138	Super Loki	-	INTA SLW-7711	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S371	2443178.98	1977 Feb 4 1132	Super Loki	-	INTA SLW-7712	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S372	2443179.96	1977 Feb 5 1109	Super Loki	-	INTA SLW-7713	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S373	2443179.99	1977 Feb 5 1150	Super Loki	-	INTA SLW-7714	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S374	2443181.98	1977 Feb 7 1134	Super Loki	-	INTA SLW-7715	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S375	2443183.98	1977 Feb 9 1132	Super Loki	-	INTA SLW-7716	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S376	2443185.98	1977 Feb 11 1137	Super Loki	-	INTA SLW-7717	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S377	2443190.98	1977 Feb 16 1133	Super Loki	-	INTA SLW-7718	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W359	2443191.16	1977 Feb 16 1545:59	Super Loki	-	T 1-8691	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W362	2443191.23	1977 Feb 16 1732:00	Super Loki	-	T 1-8415	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W363	2443191.25	1977 Feb 16 1807:00	Super Loki	-	TH1-8708	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W364	2443191.26	1977 Feb 16 1812:00	Super Loki	-	T 1-8418	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W366	2443191.32	1977 Feb 16 1944:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W367	2443191.39	1977 Feb 16 2120:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-S378	2443198.00	1977 Feb 23 1153	Super Loki	-	INTA SLW-7719	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S451	2443198.17	1977 Feb 23 1600	Super Loki	-	T 1-8648	0.000	WFF	SU	-	WFF/Wright	Aeron	TM-69365	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-W393	2443198.21	1977 Feb 23 1700:00	Super Loki	-	FLIGHT 148 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W415	2443202.50	1977 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W416	2443202.50	1977 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W417	2443202.50	1977 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-W418	2443202.50	1977 Mar	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1977-S379	2443205.00	1977 Mar 2 1154	Super Loki	-	INTA SLW-7720	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S380	2443211.98	1977 Mar 9 1131	Super Loki	-	INTA SLW-7721	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S381	2443218.98	1977 Mar 16 1130	Super Loki	-	INTA SLW-7722	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W520	2443219.21	1977 Mar 16 1700:00	Super Loki	-	T 1-8416	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W522	2443219.26	1977 Mar 16 1819:00	Super Loki	-	FLIGHT 150 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S382	2443225.98	1977 Mar 23 1135	Super Loki	-	INTA SLW-7723	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S383	2443232.99	1977 Mar 30 1141	Super Loki	-	INTA SLW-7724	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S384	2443234.98	1977 Apr 1 1131	Super Loki	-	INTA SLW-7725	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W607	2443235.11	1977 Apr 01 1440:00	Super Loki	-	T 1-8722	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S385	2443237.98	1977 Apr 4 1131	Super Loki	-	INTA SLW-7726	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S386	2443244.99	1977 Apr 11 1151	Super Loki	-	INTA SLW-7727	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S387	2443246.98	1977 Apr 13 1134	Super Loki	-	INTA SLW-7728	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S388	2443248.98	1977 Apr 15 1131	Super Loki	-	INTA SLW-7729	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S389	2443251.98	1977 Apr 18 1131	Super Loki	-	INTA SLW-7730	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S390	2443253.98	1977 Apr 20 1131	Super Loki	-	INTA SLW-7731	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-A21	2443254.21	1977 Apr 20 1656:00	Super Loki	-	T 1-8721	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W702	2443254.25	1977 Apr 20 1800:00	Super Loki	-	TH1-8710	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S391	2443255.98	1977 Apr 22 1131	Super Loki	-	INTA SLW-7732	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S392	2443258.98	1977 Apr 25 1132	Super Loki	-	INTA SLW-7733	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S393	2443260.99	1977 Apr 27 1139	Super Loki	-	INTA SLW-7734	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S394	2443262.98	1977 Apr 29 1131	Super Loki	-	INTA SLW-7735	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S395	2443267.98	1977 May 4 1132	Super Loki	-	INTA SLW-7736	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S396	2443275.00	1977 May 11 1154	Super Loki	-	INTA SLW-7737	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S310	2443281.81	1977 May 18 0726	Super Loki	?	Flight 2025	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1977-S311	2443281.90	1977 May 18 0930	Super Loki	?	Flight 2026	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1977-S312	2443282.03	1977 May 18 1237	Super Loki	?	Flight 2028	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1977-S313	2443282.06	1977 May 18 1320	Super Loki	?	Flight 2029	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1977-S314	2443282.07	1977 May 18 1343	Super Loki	?	Flight AC6	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1977-W857	2443282.19	1977 May 18 1638:00	Super Loki	-	FLIGHT 154 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W860	2443282.26	1977 May 18 1813:00	Super Loki	-	FLIGHT 155 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W898	2443291.11	1977 May 27 1434:00	Super Loki	-	Intercomp prep 1A	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W899	2443291.11	1977 May 27 1440:00	Super Loki	-	Intercomp prep 1B	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W907	2443291.28	1977 May 27 1838:59	Super Loki	-	Intercomp prep 2A	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W908	2443291.28	1977 May 27 1845:00	Super Loki	-	Intercomp prep 2B	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W912	2443291.46	1977 May 27 2256:59	Super Loki	-	Intercomp prep 3A	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W913	2443291.46	1977 May 27 2303:00	Super Loki	-	Intercomp prep 3B	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-M21	2443291.60	1977 May 28 0230:00	Super Loki	-	Intercomp prep 4A	0.000	MRN	SS	-	-	Meteo	RP-1053	-	-
1977-W916	2443291.61	1977 May 28 0240:00	Super Loki	-	Intercomp prep 4B	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-W917	2443291.77	1977 May 28 0630:00	Super Loki	-	Intercomp prep 5A	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-M22	2443291.78	1977 May 28 0647:00	Super Loki	-	Intercomp prep 5B	0.000	MRN	SS	-	-	Meteo	RP-1053	-	-
1977-M24	2443291.95	1977 May 28 1042:00	Super Loki	-	Intercomp prep 6A	0.000	MRN	SS	-	-	Meteo	RP-1053	-	-
1977-M25	2443291.95	1977 May 28 1047:00	Super Loki	-	Intercomp prep 6B	0.000	MRN	SS	-	-	Meteo	RP-1053	-	-
1977-S397	2443302.98	1977 Jun 8 1132	Super Loki	-	INTA SLW-7738	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1011	2443310.19	1977 Jun 15 1636:00	Super Loki	-	FLIGHT 156 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S398	2443316.98	1977 Jun 22 1131	Super Loki	-	INTA SLW-7739	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1055	2443317.25	1977 Jun 22 1800:00	Super Loki	-	FLIGHT 157 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1057	2443317.30	1977 Jun 22 1911:00	Super Loki	-	FLIGHT 158 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1189	2443344.21	1977 Jul 19 1703:00	Super Loki	-	FLIGHT 159 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1196	2443345.21	1977 Jul 20 1706:00	Super Loki	-	FLIGHT 160 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1201	2443345.26	1977 Jul 20 1820:00	Super Loki	-	FLIGHT 161 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1206	2443345.43	1977 Jul 20 2213:00	Super Loki	-	FLIGHT 162 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1209	2443346.00	1977 Jul 21 1154:00	Super Loki	-	FLIGHT 163 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1211	2443346.10	1977 Jul 21 1428:00	Super Loki	-	FLIGHT 164 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1212	2443346.21	1977 Jul 21 1703:00	Super Loki	-	FLIGHT 165 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1216	2443346.32	1977 Jul 21 1938:00	Super Loki	-	FLIGHT 166 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1218	2443346.43	1977 Jul 21 2213:00	Super Loki	-	FLIGHT 167 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1220	2443347.01	1977 Jul 22 1210:00	Super Loki	-	FLIGHT 168 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1223	2443347.22	1977 Jul 22 1722:00	Super Loki	-	FLIGHT 169 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S399	2443353.50	1977 Jul 29 0000	Super Loki	-	INTA SLW-7740	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S400	2443357.01	1977 Aug 1 1214	Super Loki	-	INTA SLW-7741	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S401	2443360.98	1977 Aug 5 1135	Super Loki	-	INTA SLW-7742	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-M23	2443366.08	1977 Aug 10 1400:00	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	-	Meteo	RP-1053	DSI-5850	-
1977-M02	2443367.68	1977 Aug 12 0419	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M03	2443367.79	1977 Aug 12 0659	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M04	2443367.96	1977 Aug 12 1100	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S423	2443367.97	1977 Aug 12 1111	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S402	2443367.98	1977 Aug 12 1131	Super Loki	-	INTA SLW-7743	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-M05	2443371.24	1977 Aug 15 1744	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M06	2443371.31	1977 Aug 15 1930	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M07	2443371.32	1977 Aug 15 1942	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M08	2443371.55	1977 Aug 16 0113	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S435	2443371.56	1977 Aug 16 0123	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-W1364	2443372.27	1977 Aug 16 1835	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	DSI-5850	-
1977-M10	2443372.33	1977 Aug 16 2000	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S436	2443372.36	1977 Aug 16 2032	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-W1368	2443373.21	1977 Aug 17 1700:00	Super Loki	-	FLIGHT 170 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1371	2443373.25	1977 Aug 17 1800:00	Super Loki	-	FLIGHT 171 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1372	2443373.26	1977 Aug 17 1821:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1977-M11	2443373.35	1977 Aug 17 2025	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M12	2443374.55	1977 Aug 19 0116	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S437	2443374.56	1977 Aug 19 0125	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-M13	2443374.62	1977 Aug 19 0300	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S438	2443374.73	1977 Aug 19 0524	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M14	2443374.73	1977 Aug 19 0537	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S403	2443374.99	1977 Aug 19 1139	Super Loki	-	INTA SLW-7744	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-M16	2443375.33	1977 Aug 19 2000	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-S439	2443375.42	1977 Aug 19 2210	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M17	2443375.54	1977 Aug 20 0100	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M09	2443378.46	1977 Aug 22 2308	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M18	2443378.54	1977 Aug 23 0100	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M19	2443378.65	1977 Aug 23 0339	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-M20	2443379.56	1977 Aug 24 0128	Super Loki	-	US-USSR Intercomp	0.000	MRN	SS	-	WFF/	Meteo	RP-1053	-	-
1977-W1910	2443379.62	1977 Aug 24 0300	Super Loki	-	US-USSR Intercomp	0.000	WFF	SS	-	WFF/Schmidlin	Meteo	SR19,127	-	-
1977-S404	2443393.98	1977 Sep 7 1131	Super Loki	-	INTA SLW-7745	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S405	2443394.01	1977 Sep 7 1208	Super Loki	-	INTA SLW-7746	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S406	2443400.98	1977 Sep 14 1131	Super Loki	-	INTA SLW-7747	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1467	2443401.25	1977 Sep 14 1802:00	Super Loki	-	FLIGHT 172 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S407	2443407.98	1977 Sep 21 1131	Super Loki	-	INTA SLW-7748	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1494	2443408.26	1977 Sep 21 1810:00	Super Loki	-	FLIGHT 173 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-Y335	2443410.97	1977 Sep 24 1115:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC	-
1977-Y336	2443411.01	1977 Sep 24 1214:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC	-
1977-Y337	2443411.02	1977 Sep 24 1234:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC	-
1977-S408	2443415.02	1977 Sep 28 1230	Super Loki	-	INTA SLW-7749	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-Y343	2443416.27	1977 Sep 29 1822:00	Super Loki	-	FLIGHT 174 /TW1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S409	2443422.02	1977 Oct 5 1234	Super Loki	-	INTA SLW-7750	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1580	2443429.21	1977 Oct 12 1700:00	Super Loki	-	FLIGHT 175 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S410	2443436.02	1977 Oct 19 1234	Super Loki	-	INTA SLW-7751	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1621	2443438.25	1977 Oct 21 1800:00	Super Loki	-	FLIGHT 176 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S411	2443450.02	1977 Nov 2 1231	Super Loki	-	INTA SLW-7752	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S412	2443464.02	1977 Nov 16 1231	Super Loki	-	INTA SLW-7753	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1733	2443464.23	1977 Nov 16 1737:00	Super Loki	-	FLIGHT 177 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1734	2443464.25	1977 Nov 16 1800:00	Super Loki	-	FLIGHT 178 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S413	2443478.02	1977 Nov 30 1231	Super Loki	-	INTA SLW-7754	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-S414	2443478.04	1977 Nov 30 1257	Super Loki	-	INTA SLW-7755	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1977-W1862	2443492.22	1977 Dec 14 1712:00	Super Loki	-	FLIGHT 179 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1869	2443493.21	1977 Dec 15 1656:00	Super Loki	-	FLIGHT 180 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-W1876	2443494.25	1977 Dec 16 1800:00	Super Loki	-	FLIGHT 181 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1977-S415	2443499.03	1977 Dec 21 1242	Super Loki	-	INTA SLW-7756	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S302	2443520.02	1978 Jan 11 1235	Super Loki	-	INTA SLW-7801	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S303	2443522.03	1978 Jan 13 1242	Super Loki	-	INTA SLW-7802	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S304	2443525.03	1978 Jan 16 1243	Super Loki	-	INTA SLW-7803	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S305	2443525.05	1978 Jan 16 1305	Super Loki	-	INTA SLW-7804	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S306	2443527.02	1978 Jan 18 1231	Super Loki	-	INTA SLW-7805	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-W62	2443527.21	1978 Jan 18 1708:00	Super Loki	-	FLIGHT 182 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W64	2443527.25	1978 Jan 18 1804:00	Super Loki	-	FLIGHT 183 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-S307	2443529.03	1978 Jan 20 1247	Super Loki	-	INTA SLW-7806	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S308	2443532.02	1978 Jan 23 1231	Super Loki	-	INTA SLW-7807	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S309	2443536.02	1978 Jan 27 1231	Super Loki	-	INTA SLW-7808	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S310	2443539.02	1978 Jan 30 1235	Super Loki	-	INTA SLW-7809	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S311	2443543.02	1978 Feb 3 1235	Super Loki	-	INTA SLW-7810	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S312	2443546.02	1978 Feb 6 1236	Super Loki	-	INTA SLW-7811	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S313	2443553.02	1978 Feb 13 1231	Super Loki	-	INTA SLW-7812	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-W182	2443555.21	1978 Feb 15 1703:00	Super Loki	-	FLIGHT 184 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W184	2443555.25	1978 Feb 15 1803:00	Super Loki	-	FLIGHT 185 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W316	2443583.22	1978 Mar 15 1714:00	Super Loki	-	FLIGHT 187 /T 1-	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1978-W345	2443590.25	1978 Mar 22 1801:00	Super Loki	-	FLIGHT 186 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W347	2443590.27	1978 Mar 22 1835:00	Super Loki	-	FLIGHT 188 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-S263	2443603.87	1978 Apr 5 0855	Super Loki	?	Flight 2018	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1978-S264	2443603.95	1978 Apr 5 1041	Super Loki	?	Flight 2019	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1978-S265	2443604.03	1978 Apr 5 1243	Super Loki	?	Flight 2021	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	SR20,79	-	-
1978-W422	2443611.21	1978 Apr 12 1700:00	Super Loki	-	FLIGHT 189 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W469	2443627.29	1978 Apr 28 1900:00	Super Loki	-	FLIGHT 190 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W532	2443646.13	1978 May 17 1503:00	Super Loki	-	T 1-9409	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W534	2443646.14	1978 May 17 1515:00	Super Loki	-	T 1-9410	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W538	2443646.21	1978 May 17 1702:00	Super Loki	-	FLIGHT 191 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W541	2443646.28	1978 May 17 1843:00	Super Loki	-	T 1-9411	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W544	2443646.30	1978 May 17 1905:00	Super Loki	-	T 1-9412	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W546	2443646.33	1978 May 17 1948:00	Super Loki	-	T 1-9413	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W547	2443646.33	1978 May 17 2000:00	Super Loki	-	T 1-9414	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1978-W583	2443653.25	1978 May 24 1800:00	Super Loki	-	FLIGHT 192 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W647	2443674.22	1978 Jun 14 1711:00	Super Loki	-	FLIGHT 193 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W651	2443674.25	1978 Jun 14 1806:00	Super Loki	-	FLIGHT 194 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W738	2443702.21	1978 Jul 12 1704:00	Super Loki	-	FLIGHT 195 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W740	2443702.27	1978 Jul 12 1836:00	Super Loki	-	FLIGHT 196 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-S314	2443706.98	1978 Jul 17 1131	Super Loki	-	INTA SLW-7813	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S315	2443707.02	1978 Jul 17 1227	Super Loki	-	INTA SLW-7814	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S316	2443708.09	1978 Jul 18 1412	Super Loki	-	INTA SLW-7815	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S317	2443715.98	1978 Jul 26 1131	Super Loki	-	INTA SLW-7816	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-S318	2443724.99	1978 Aug 4 1144	Super Loki	-	INTA SLW-7817	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-W848	2443737.21	1978 Aug 16 1707:00	Super Loki	-	FLIGHT 197 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W849	2443737.23	1978 Aug 16 1729:00	Super Loki	-	FLIGHT 198 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W850	2443737.26	1978 Aug 16 1816:00	Super Loki	-	FLIGHT 199 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-S319	2443738.98	1978 Aug 18 1136	Super Loki	-	INTA SLW-7818	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-W875	2443744.23	1978 Aug 23 1734:00	Super Loki	-	FLIGHT 200 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W887	2443746.21	1978 Aug 25 1703:00	Super Loki	-	FLIGHT 201 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W908	2443752.04	1978 Aug 31 1304:00	Super Loki	-	FLIGHT 202 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W910	2443752.21	1978 Aug 31 1708:00	Super Loki	-	FLIGHT 203 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1978-W972	2443772.05	1978 Sep 20 1314:00	Super Loki	-	FLIGHT 204 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W978	2443772.23	1978 Sep 20 1732:00	Super Loki	-	FLIGHT 205 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W980	2443772.25	1978 Sep 20 1800:00	Super Loki	-	FLIGHT 206 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W983	2443772.35	1978 Sep 20 2030:00	Super Loki	-	FLIGHT 207 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-S320	2443799.99	1978 Oct 18 1145	Super Loki	-	INTA SLW-7819	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1978-W1076	2443800.22	1978 Oct 18 1721:00	Super Loki	-	FLIGHT 208 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1077	2443800.24	1978 Oct 18 1752:00	Super Loki	-	FLIGHT 209 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1078	2443800.25	1978 Oct 18 1805:00	Super Loki	-	FLIGHT 210 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1158	2443826.22	1978 Nov 13 1711:00	Super Loki	-	FLIGHT 211 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1181	2443832.13	1978 Nov 19 1508:00	Super Loki	-	FLIGHT 212	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1183	2443832.21	1978 Nov 19 1700:00	Super Loki	-	FLIGHT 213 /TH1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1195	2443835.09	1978 Nov 22 1408:00	Super Loki	-	FLIGHT 214 /TN1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1208	2443838.13	1978 Nov 25 1510:00	Super Loki	-	FLIGHT 215	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1217	2443841.08	1978 Nov 28 1358:00	Super Loki	-	FLIGHT 216 /TN1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1219	2443842.18	1978 Nov 29 1613:00	Super Loki	-	FLIGHT 217 /T 1-	0.000	WFF	SU	-	WFF/Wright	Aeron	WDCRF	-	-
1978-W1284	2443863.15	1978 Dec 20 1542:00	Super Loki	-	FLIGHT 218 /T 1-	0.000	WFF	SU	-	WFF/Wright.D	Aeron	WDCRF	-	-
1978-W1288	2443863.22	1978 Dec 20 1713:00	Super Loki	-	FLIGHT 219 /TH1-	0.000	WFF	SU	-	WFF/Wright.D	Aeron	WDCRF	-	-
1979-W02	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W03	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W04	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W05	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W06	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W07	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W08	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W09	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W10	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W11	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W12	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W13	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W14	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W15	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W16	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W17	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W18	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W19	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W20	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W21	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W22	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W23	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W24	2443873.50	1979 Jan	Super Loki	-	-	0.000	MRN	SS	-	USAF/6WW	Meteo	FC	-	-
1979-W41	2443881.23	1979 Jan 7 1727	Super Loki	-	F-220/T 1-9631	0.000	WFF	SS	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W42	2443881.24	1979 Jan 7 1749	Super Loki	-	F-221/T 1-9645	0.000	WFF	SS	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W54	2443883.19	1979 Jan 9 1628:00	Super Loki	-	FLIGHT 222 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W69	2443885.22	1979 Jan 11 1714:00	Super Loki	-	FLIGHT 223 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-Y607	2443924.36	1979 Feb 19 2038	Super Loki	-	-	0.000	NRCC	SS	-	NRCC/	Meteo	WI-PR-79-6	-	-
1979-Y608	2443928.25	1979 Feb 23 1800	Super Loki	-	-	0.000	NRCC	SS	-	NRCC/	Meteo	WI-PR-79-6	-	-
1979-Y609	2443929.16	1979 Feb 24 1551	Super Loki	-	-	0.000	NRCC	SS	-	NRCC/	Meteo	WI-PR-79-6	-	-
1979-Y611	2443930.27	1979 Feb 25 1830	Super Loki	-	-	0.000	NRCC	SS	-	NRCC/	Meteo	WI-PR-79-6	-	-
1979-Y613	2443931.30	1979 Feb 26 1915	Super Loki	-	-	0.000	NRCC	SS	-	NRCC/	Meteo	WI-PR-79-6	-	-
1979-W309	2443931.69	1979 Feb 27 0430	Super Loki	-	CMSL-09	0.000	NRCC	SS	-	MRN/	Aeron	WI-PR-79-6	JATP45-515	-
1979-Y614	2443931.73	1979 Feb 27 0530	Super Loki	-	-	0.000	NRCC	SS	-	MRN/	Aeron	WI-PR-79-6	JATP45-515	-
1979-W311	2443932.11	1979 Feb 27 1440	Super Loki	-	CMSL-10	0.000	NRCC	SS	-	MRN/	Aeron	JATP45-515	-	-
1979-Y615	2443932.16	1979 Feb 27 1545	Super Loki	-	-	0.000	NRCC	SS	-	MRN/	Aeron	WI-PR-79-6	-	-
1979-W326	2443933.24	1979 Feb 28 1750:00	Super Loki	-	FLIGHT 224 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W380	2443948.21	1979 Mar 15 1708:00	Super Loki	-	FLIGHT 225 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W391	2443952.17	1979 Mar 19 1612:00	Super Loki	-	FLIGHT 226 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W415	2443957.10	1979 Mar 24 1423:00	Super Loki	-	FLIGHT 227 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W427	2443961.22	1979 Mar 28 1722:00	Super Loki	-	FLIGHT 228 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W428	2443961.28	1979 Mar 28 1840:00	Super Loki	-	T 1-9640	0.000	WFF	SU	-	SDCO/Bollerman	Aeron	WDCRF	-	-
1979-W463	2443969.28	1979 Apr 05 1838:00	Super Loki	-	FLIGHT 229 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W465	2443969.41	1979 Apr 05 2154:00	Super Loki	-	FLIGHT 230 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W466	2443969.43	1979 Apr 05 2213:00	Super Loki	-	FLIGHT 231 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W487	2443975.24	1979 Apr 11 1752:00	Super Loki	-	FLIGHT 232 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W496	2443977.26	1979 Apr 13 1810:00	Super Loki	-	FLIGHT 233 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W527	2443985.08	1979 Apr 21 1358:00	Super Loki	-	FLIGHT 234 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W576	2443997.19	1979 May 03 1636:00	Super Loki	-	FLIGHT 235 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W577	2443997.25	1979 May 03 1805:00	Super Loki	-	FLIGHT 236 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W620	2444006.24	1979 May 12 1746:00	Super Loki	-	FLIGHT 237	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-Y300	2444015.42	1979 May 21 2200:00	Super Loki	-	-	0.000	AN/WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1979-W1036	2444113.17	1979 Aug 27 1610:00	Super Loki	-	FLIGHT 244 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1103	2444130.18	1979 Sep 13 1615:00	Super Loki	-	FLIGHT 245 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1118	2444135.27	1979 Sep 18 1830:00	Super Loki	-	FLIGHT 247 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1117	2444135.25	1979 Sep 18 1755:00	Super Loki	-	FLIGHT 246 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1197	2444156.92	1979 Oct 10 1010:00	Super Loki	-	FLIGHT 248 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1237	2444168.16	1979 Oct 21 1548:00	Super Loki	-	FLIGHT 249 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1238	2444168.19	1979 Oct 21 1635:00	Super Loki	-	FLIGHT 250 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1240	2444168.23	1979 Oct 21 1732:00	Super Loki	-	FLIGHT 251 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1283	2444179.05	1979 Nov 01 1316:00	Super Loki	-	FLIGHT 252 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1284	2444179.08	1979 Nov 01 1355:00	Super Loki	-	FLIGHT 253 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1285	2444179.13	1979 Nov 01 1505:00	Super Loki	-	FLIGHT 254 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1287	2444179.24	1979 Nov 01 1751:00	Super Loki	-	FLIGHT 255 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1289	2444179.35	1979 Nov 01 2030:00	Super Loki	-	FLIGHT 256 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1290	2444179.37	1979 Nov 01 2049:00	Super Loki	-	FLIGHT 257 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1387	2444212.25	1979 Dec 04 1753:00	Super Loki	-	FLIGHT 258 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1979-W1441	2444228.17	1979 Dec 20 1601:00	Super Loki	-	FLIGHT 259 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W24	2444246.32	1980 Jan 07 1938:00	Super Loki	-	FLIGHT 260 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-W144	2444284.17	1980 Feb 14 1612:00	Super Loki	-	FLIGHT 261 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W160	2444288.30	1980 Feb 18 1906:00	Super Loki	-	FLIGHT 262 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W162	2444289.13	1980 Feb 19 1510:00	Super Loki	-	FLIGHT 263 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W177	2444294.13	1980 Feb 24 1510:00	Super Loki	-	FLIGHT 264 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W214	2444300.05	1980 Mar 01 1310:00	Super Loki	-	FLIGHT 265 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W248	2444311.05	1980 Mar 12 1311:00	Super Loki	-	FLIGHT 266 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W276	2444317.38	1980 Mar 18 2105:00	Super Loki	-	FLIGHT 267 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W352	2444339.17	1980 Apr 09 1609:00	Super Loki	-	FLIGHT 268 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W466	2444372.25	1980 May 12 1800:00	Super Loki	-	FLIGHT 269 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W515	2444386.42	1980 May 26 2200:00	Super Loki	-	FLIGHT 270 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W568	2444400.18	1980 Jun 09 1617:00	Super Loki	-	FLIGHT 271 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W572	2444400.25	1980 Jun 09 1804:00	Super Loki	-	FLIGHT 272 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W655	2444426.27	1980 Jul 5 1830:00	Super Loki	-	FLIGHT 273	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W656	2444427.09	1980 Jul 6 1403:00	Super Loki	-	FLIGHT 274	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W691	2444438.07	1980 Jul 17 1347:00	Super Loki	-	FLIGHT 275 /TN1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W707	2444444.18	1980 Jul 23 1615:00	Super Loki	-	FLIGHT 276 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W711	2444444.64	1980 Jul 24 0320:00	Super Loki	-	FLIGHT 277 /TM1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W713	2444445.44	1980 Jul 24 2235:00	Super Loki	-	FLIGHT 278 /TM1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W714	2444445.65	1980 Jul 25 0341:00	Super Loki	-	FLIGHT 279 /TM1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W791	2444472.18	1980 Aug 20 1615:00	Super Loki	-	FLIGHT 280 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1980-W936	2444519.36	1980 Oct 6 2034:00	Super Loki	-	TY1-6190	0.000	WFC	SS	-	WFF/Schmidlin	Test	AND	-	-
1980-Y423	2444519.48	1980 Oct 06 2327:00	Super Loki	-	TY1-6191	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W938	2444519.69	1980 Oct 07 0428:57	Super Loki	-	TY1-6878	0.000	WFC	SS	-	WFF/Schmidlin	Ionos	WDCRF	AND	-
1980-Y424	2444519.75	1980 Oct 07 0601:52	Super Loki	-	TY1-6192	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W947	2444521.13	1980 Oct 08 1503:00	Super Loki	-	FLIGHT 282 /TN1-	0.000	WFF	SU	-	WFF/?	Aeron	WDCRF	-	-
1980-Y429	2444521.55	1980 Oct 09 0115:00	Super Loki	-	TY1-6193	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-Y431	2444522.42	1980 Oct 09 2202:00	Super Loki	-	TY1-6194	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W951	2444523.40	1980 Oct 10 2129:12	Super Loki	-	TY1-6195	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W953	2444524.36	1980 Oct 11 2033:20	Super Loki	-	TY1-6196	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-Y432	2444524.44	1980 Oct 11 2231:00	Super Loki	-	TY1-6197	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W954	2444524.48	1980 Oct 11 2328:30	Super Loki	-	TY1-7128	0.000	WFC	SS	-	WFF/Schmidlin	Ionos	WDCRF	AND	-
1980-Y433	2444524.52	1980 Oct 12 0026:00	Super Loki	-	TY1-6422	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-A38	2444528.31	1980 Oct 15 1923:00	Super Loki	-	TY1-6423	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W965	2444528.37	1980 Oct 15 2053:00	Super Loki	-	TY1-6424	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-Y439	2444528.46	1980 Oct 15 2304:00	Super Loki	-	TY1-6425	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W969	2444529.20	1980 Oct 16 1645:00	Super Loki	-	FLIGHT 284 /T 1-	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1980-W970	2444529.26	1980 Oct 16 1820:00	Super Loki	-	FLIGHT 285 /T 1-	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1980-W976	2444530.59	1980 Oct 18 0207:14	Super Loki	-	TY1-7129	0.000	WFC	SS	-	WFF/Schmidlin	Ionos	WDCRF	AND	-
1980-Y441	2444530.64	1980 Oct 18 0317:35	Super Loki	-	TY1-6874	0.000	WFC	SS	-	WFF/Schmidlin	Aeron	WDCRF	AND	-
1980-W978	2444530.66	1980 Oct 18 0352:00	Super Loki	-	TY1-7130	0.000	WFC	SS	-	WFF/	Ionos	WDCRF	AND	-
1980-W979	2444530.69	1980 Oct 18 0435:02	Super Loki	-	TY1-6875	0.000	WFC	SS	-	WFF/	Aeron	WDCRF	AND	-
1980-Y514	2444551.42	1980 Nov 7 2200	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y515	2444551.45	1980 Nov 7 2250	Super Loki	-	PWN-12A?	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y516	2444553.51	1980 Nov 10 0010	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y517	2444553.54	1980 Nov 10 0100	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y518	2444553.60	1980 Nov 10 0218	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y519	2444554.42	1980 Nov 10 2200	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y520	2444554.49	1980 Nov 10 2346	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y521	2444554.54	1980 Nov 11 0101:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y522	2444554.58	1980 Nov 11 0155:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y524	2444554.60	1980 Nov 11 0226:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y525	2444555.51	1980 Nov 12 0020:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y526	2444555.55	1980 Nov 12 0107:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y527	2444559.44	1980 Nov 15 2235:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y528	2444559.72	1980 Nov 16 0512:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y529	2444559.77	1980 Nov 16 0633:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y530	2444559.81	1980 Nov 16 0722:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y531	2444559.83	1980 Nov 16 0751:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y532	2444559.85	1980 Nov 16 0823:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y533	2444571.45	1980 Nov 27 2245:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y534	2444571.53	1980 Nov 28 0047:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y535	2444571.65	1980 Nov 28 0329:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y536	2444571.68	1980 Nov 28 0419:10	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y537	2444574.52	1980 Dec 1 0024:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y538	2444574.57	1980 Dec 1 0139:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y539	2444574.61	1980 Dec 1 0233:30	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-Y540	2444574.64	1980 Dec 1 0324:00	Super Loki	-	-	0.000	NTNF?	SS	-	NDRE/Thrane?	Aeron	ssc.se	-	-
1980-W1086	2444577.26	1980 Dec 03 1812:00	Super Loki	-	FLIGHT 286 /TH1-	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1981-W33	2444627.18	1981 Jan 22 1617:00	Super Loki	-	FLIGHT 289 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1981-W47	2444638.26	1981 Feb 02 1808:00	Super Loki	-	FLIGHT 290 /TH1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1981-W122	2444662.19	1981 Feb 26 1628:00	Super Loki	-	FLIGHT 291 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1981-W125	2444662.36	1981 Feb 26 2045:00	Super Loki	-	FLIGHT 292 /T 1-	0.000	WFF	SU	-	WFF/Krueger	Aeron	WDCRF	-	-
1981-A19	2444809.29	1981 Jul 23 1900?	Super Loki	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	WI-PR81-10	-
1981-W504	2444809.30	1981 Jul 23 1918:59	Super Loki	-	-	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	WI-PR81-10	-
1981-W608	2444861.17	1981 Sep 13 1605	Super Loki	-	F-293/T 1-6617	0.000	WFF	SS	-	WFF/Reed	Aeron	WDCRF	-	-
1981-W658	2444883.17	1981 Oct 05 1610:00	Super Loki	-	FLIGHT 294 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1981-W727	2444921.27	1981 Nov 12 1829:00	Super Loki	-	FLIGHT 295 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1981-S247	2444934.11	1981 Nov 25 1443	Super Loki	-	INTA SLD-8101	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1981-S248	2444955.11	1981 Dec 16 1434	Super Loki	-	INTA SLD-8102	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1981-S249	2444961.11	1981 Dec 22 1440	Super Loki	-	INTA SLD-8103	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-S271	2444978.08	1982 Jan 8 1402	Super Loki	-	INTA SLD-8201	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-S272	2444988.09	1982 Jan 18 1416	Super Loki	-	INTA SLD-8202	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-S273	2444990.10	1982 Jan 20 1429	Super Loki	-	INTA SLD-8203	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-W43	2444990.17	1982 Jan 20 1609:00	Super Loki	-	FLIGHT 296 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W55	2444995.17	1982 Jan 25 1600:00	Super Loki	-	FLIGHT 297 /TN1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W56	2444995.19	1982 Jan 25 1640:00	Super Loki	-	FLIGHT 298 /TN1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1982-W58	2444995.27	1982 Jan 25 1830:00	Super Loki	-	FLIGHT 299 /TN1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-S274	2444997.10	1982 Jan 27 1423	Super Loki	-	INTA SLD-8204	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-W82	2445001.14	1982 Jan 31 1523:00	Super Loki	-	FLIGHT 300 /TN1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-S275	2445006.10	1982 Feb 5 1423	Super Loki	-	INTA SLD-8205	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-S276	2445009.10	1982 Feb 8 1418	Super Loki	-	INTA SLD-8206	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-S277	2445016.11	1982 Feb 15 1442	Super Loki	-	INTA SLD-8207	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1982-W114	2445016.21	1982 Feb 15 1708:00	Super Loki	-	FLIGHT 301 /TZ1-	0.000	WFF/CNIE	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W115	2445016.30	1982 Feb 15 1915:00	Super Loki	-	FLIGHT 302 /TZ1-	0.000	WFF/CNIE	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W124	2445018.30	1982 Feb 17 1907:00	Super Loki	-	FLIGHT 304 /TZ1-	0.000	WFF/CNIE	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W135	2445022.20	1982 Feb 21 1653:00	Super Loki	-	FLIGHT 305 /TZ1-	0.000	WFF/CNIE	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W140	2445024.30	1982 Feb 23 1911:00	Super Loki	-	T 1-0105	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y59	2445025.29	1982 Feb 24 1900:00	Super Loki	-	T 1-0106	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W146	2445026.29	1982 Feb 25 1900:00	Super Loki	-	T 1-0107	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W150	2445027.20	1982 Feb 26 1651:00	Super Loki	-	FLIGHT 306 /TZ1-	0.000	WFF/CNIE	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-Y60	2445027.31	1982 Feb 26 1920:00	Super Loki	-	T 1-0108	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W153	2445029.32	1982 Feb 28 1946:00	Super Loki	-	T 1-0112	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y61	2445030.33	1982 Mar 01 2000:00	Super Loki	-	T 1-0113	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y62	2445031.33	1982 Mar 02 1955:00	Super Loki	-	T 1-0116	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y66	2445032.29	1982 Mar 03 1900:00	Super Loki	-	T 1-0117	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W158	2445033.29	1982 Mar 04 1900:00	Super Loki	-	T 1-0118	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y70	2445034.29	1982 Mar 05 1903:00	Super Loki	-	T 1-0119	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y72	2445037.30	1982 Mar 08 1908:00	Super Loki	-	T 1-0122	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W168	2445038.29	1982 Mar 09 1900:00	Super Loki	-	T 1-0123	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W171	2445039.29	1982 Mar 10 1900:00	Super Loki	-	T 1-0124	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W173	2445040.29	1982 Mar 11 1900:00	Super Loki	-	T 1-0125	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W175	2445041.29	1982 Mar 12 1900:00	Super Loki	-	T 1-0126	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W182	2445045.29	1982 Mar 16 1900:00	Super Loki	-	T 1-0130	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W184	2445046.31	1982 Mar 17 1923:00	Super Loki	-	T 1-0131	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W186	2445047.29	1982 Mar 18 1901:00	Super Loki	-	T 1-0132	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W187	2445048.29	1982 Mar 19 1900:00	Super Loki	-	T 1-0133	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W194	2445051.31	1982 Mar 22 1924:00	Super Loki	-	T 1-0290	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W205	2445053.29	1982 Mar 24 1901:00	Super Loki	-	T 1-0292	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W218	2445058.09	1982 Mar 29 1405:00	Super Loki	-	T 1-0283	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W219	2445058.12	1982 Mar 29 1457:00	Super Loki	-	T 1-0293	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y121	2445059.06	1982 Mar 30 1330:00	Super Loki	-	T 1-0294	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W225	2445059.10	1982 Mar 30 1420:00	Super Loki	-	T 1-0297	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W253	2445080.17	1982 Apr 20 1559:00	Super Loki	-	FLIGHT 307 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W254	2445080.20	1982 Apr 20 1641:00	Super Loki	-	FLIGHT 308 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W255	2445080.20	1982 Apr 20 1646:00	Super Loki	-	FLIGHT 309 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W256	2445080.22	1982 Apr 20 1717:00	Super Loki	-	FLIGHT 310 /T 1-	0.000	WFF	SU	-	WFF/Reed	Aeron	WDCRF	-	-
1982-W300	2445114.21	1982 May 24 1700:00	Super Loki	-	T 1-0298	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W320	2445129.11	1982 Jun 08 1437:00	Super Loki	-	T 1-0301	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y217	2445150.13	1982 Jun 29 1510:00	Super Loki	-	T 1-0302	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y214	2445149.99	1982 Jun 29 1145:00	Super Loki	-	T 1-0303	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y237	2445154.94	1982 Jul 04 1040:00	Super Loki	-	T 1-0306	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y238	2445154.96	1982 Jul 04 1100:00	Super Loki	-	T 1-0307	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W347	2445154.97	1982 Jul 04 1120:00	Super Loki	-	T 1-0308	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W516	2445185.52	1982 Aug 4 0031:30	Super Loki	-	SuLo 11/1	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	ASR4,4,153	ASR4,4,145	-
1982-W517	2445193.53	1982 Aug 12 0044:00	Super Loki	-	SuLo 11/2	0.000	AFGL	SS	-	AFGL/Philbrick	Aeron	ssc.se	ASR4,4,145	-
1982-W400	2445216.28	1982 Sep 03 1845:00	Super Loki	-	T 1-0309	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W405	2445223.13	1982 Sep 10 1505:00	Super Loki	-	T 1-0311	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-W408	2445229.08	1982 Sep 16 1400:00	Super Loki	-	T 1-0312	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1982-W419	2445242.29	1982 Sep 29 1900:00	Super Loki	-	T 1-0310	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y376	2445289.87	1982 Nov 16 0856	Super Loki	-	CONDOR Test	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP270-169	-	-
1982-Y377	2445289.88	1982 Nov 16 0911	Super Loki	-	CONDOR Test	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP270-169	-	-
1982-Y378	2445289.90	1982 Nov 16 0931	Super Loki	-	CONDOR Test	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP270-169	-	-
1982-W465	2445289.91	1982 Nov 16 0946:00	Super Loki	-	T 1-0448	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y393	2445297.87	1982 Nov 24 0847:00	Super Loki	-	T 1-0455	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y394	2445297.88	1982 Nov 24 0903:00	Super Loki	-	T 1-0456	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y395	2445297.91	1982 Nov 24 0950:00	Super Loki	-	T 1-0457	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y424	2445323.85	1982 Dec 20 0830:00	Super Loki	-	T 1-0466	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1982-Y425	2445323.88	1982 Dec 20 0908:00	Super Loki	-	T 1-0467	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W01	2445339.85	1983 Jan 05 0827:00	Super Loki	-	T 1-0470	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-S274	2445347.03	1983 Jan 12 1241	Super Loki	-	INTA SLD-8301	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-W09	2445348.29	1983 Jan 13 1902:59	Super Loki	-	Orion support	0.000	MRN	SS	-	WFF/	Meteo	DSI-5850	-	-
1983-S275	2445356.06	1983 Jan 21 1327	Super Loki	-	INTA SLD-8302	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S276	2445363.02	1983 Jan 28 1230	Super Loki	-	INTA SLD-8303	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S277	2445365.02	1983 Jan 30 1226	Super Loki	-	INTA SLD-8304	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S278	2445367.02	1983 Feb 1 1231	Super Loki	-	INTA SLD-8305	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S279	2445370.02	1983 Feb 4 1228	Super Loki	-	INTA SLD-8306	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-Y32	2445372.89	1983 Feb 07 0925:00	Super Loki	-	T 1-0507	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-S280	2445375.02	1983 Feb 9 1234	Super Loki	-	INTA SLD-8307	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S281	2445382.00	1983 Feb 16 1202	Super Loki	-	INTA SLD-8308	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-Y39	2445380.91	1983 Feb 15 0944:00	Super Loki	-	T 1-0512	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-S282	2445383.06	1983 Feb 17 1321	Super Loki	-	INTA SLD-8309	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S283	2445385.01	1983 Feb 19 1215	Super Loki	-	INTA SLD-8310	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-Y47	2445388.90	1983 Feb 23 0938:00	Super Loki	-	T 1-0488	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-Y69	2445402.14	1983 Mar 08 1515:00	Super Loki	-	TU1-0380 PWN-12A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	ESA-SP270-169	-
1983-W64	2445402.30	1983 Mar 08 1917:00	Super Loki	-	TU1-0388 PWN-11A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	ESA-SP270-169	-
1983-S217	2445402.60	1983 Mar 9 0225	Super Loki	-	TU1-0381 PWN-12A	0.000	WFF	SF	U	WFF/Schmidlin	Aeron	WIPR83-7	-	-
1983-Y77	2445402.61	1983 Mar 09 0238:00	Super Loki	-	TU1-0358 PWN-12A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y78	2445402.66	1983 Mar 09 0352:00	Super Loki	-	TU1-0389 PWN-11A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	ESA-SP270-169	-
1983-Y79	2445402.71	1983 Mar 09 0500:00	Super Loki	-	TU1-0382 PWN-12A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	ESA-SP270-169	-
1983-S218	2445402.72	1983 Mar 9 0520	Super Loki	-	TU1-0383 PWN-12A	0.000	WFF	SF	U	WFF/Schmidlin	Aeron	WIPR83-7	-	-
1983-W66	2445402.73	1983 Mar 09 0532:00	Super Loki	-	TU1-0359 PWN-11A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-S219	2445402.74	1983 Mar 9 0549	Super Loki	-	TU1-0383 PWN-12A	0.000	WFF	SF	U	WFF/Schmidlin	Aeron	WIPR83-7	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1983-Y80	2445402.76	1983 Mar 09 0610:00	Super Loki	-	TU1-0385 PWN-12A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y81	2445402.82	1983 Mar 09 0746:00	Super Loki	-	TU1-0390 PWN-11A	0.000	WFF	SF	U	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y82	2445402.85	1983 Mar 09 0820:00	Super Loki	-	TU1-0386 PWN-12A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y83	2445402.89	1983 Mar 09 0920:00	Super Loki	-	TU1-0361 PWN-11A	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W93	2445417.29	1983 Mar 23 1852:00	Super Loki	-	TU1-0391	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y139	2445434.10	1983 Apr 09 1430:00	Super Loki	-	T 1-0460	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-Y140	2445434.12	1983 Apr 09 1450:00	Super Loki	-	T 1-0459	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-Y209	2445509.98	1983 Jun 24 1130:00	Super Loki	-	T 1-0548	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-Y210	2445510.00	1983 Jun 24 1201:00	Super Loki	-	T 1-0547	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-M58	2445570.18	1983 Aug 23 1625	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1983-M59	2445570.21	1983 Aug 23 1700?	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1983-Y275	2445582.81	1983 Sep 05 0730:00	Super Loki	-	T 1-0663	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W255	2445582.83	1983 Sep 05 0757:00	Super Loki	-	T 1-0664	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-S284	2445586.85	1983 Sep 9 0831	Super Loki	-	INTA SLD-8311	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S285	2445587.96	1983 Sep 10 1103	Super Loki	-	INTA SLD-8312	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S286	2445591.64	1983 Sep 14 0321	Super Loki	-	INTA SLD-8313	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S287	2445591.96	1983 Sep 14 1105	Super Loki	-	INTA SLD-8314	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-S288	2445598.03	1983 Sep 20 1243	Super Loki	-	INTA SLD-8315	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-W277	2445598.51	1983 Sep 21 0015:00	Super Loki	-	T 1-0674	0.000	WFF	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-S289	2445601.96	1983 Sep 24 1100	Super Loki	-	INTA SLD-8316	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-W281	2445604.14	1983 Sep 26 1520:00	Super Loki	-	-	0.000	MRN	SS	-	GSFC/	Meteo	DSI-5850	-	-
1983-M60	2445604.23	1983 Sep 26 1732	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron	JGR91,D13,14521	-	-
1983-M61	2445604.24	1983 Sep 26 1739	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-M62	2445604.26	1983 Sep 26 1817	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-M63	2445604.28	1983 Sep 26 1845	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-W301	2445635.14	1983 Oct 27 1525:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-M64	2445635.18	1983 Oct 27 1624	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-M65	2445635.19	1983 Oct 27 1631	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-M66	2445635.22	1983 Oct 27 1720	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-M67	2445635.25	1983 Oct 27 1754	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1983-Y292	2445655.89	1983 Nov 17 0926:00	Super Loki	-	T 1-0763	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-Y293	2445657.91	1983 Nov 19 0945:00	Super Loki	-	T 1-0794	0.000	WFF	SU	-	WFF/Schmidlin	Aeron	WDCRF	-	-
1983-W324	2445661.15	1983 Nov 22 1530:00	Super Loki	-	T 1-0771	0.000	WFF	SU	-	WFF/Holland	Aeron	WDCRF	-	-
1983-M68	2445661.19	1983 Nov 22 1630	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1983-W333	2445669.39	1983 Nov 30 2120	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	ESA-SP183	-
1983-Y297	2445672.33	1983 Dec 3 2000:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	AND	-
1983-W337	2445672.43	1983 Dec 3 2225	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	ESA-SP183	-
1983-W339	2445674.92	1983 Dec 6 1007:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	-	-
1983-W340	2445674.95	1983 Dec 6 1049:30	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	-	-
1983-W346	2445676.22	1983 Dec 7 1712:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	-	-
1983-W347	2445676.28	1983 Dec 7 1849:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	-	-
1983-Y301	2445676.33	1983 Dec 7 1955:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W348	2445676.35	1983 Dec 7 2027	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y303	2445677.27	1983 Dec 08 1825:00	Super Loki	-	T 1-0797	0.000	WFC	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W352	2445677.28	1983 Dec 08 1845:00	Super Loki	-	T 1-0798	0.000	WFC	SU	-	WFF/Schmidlin	Test/Aeron	WDCRF	-	-
1983-W361	2445678.16	1983 Dec 09 1550:00	Super Loki	-	T 1-0767	0.000	WFC	SU	-	WFF/Holland	Aeron	WDCRF	-	-
1983-M69	2445678.20	1983 Dec 9 1650	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1983-W362	2445679.34	1983 Dec 10 2010	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y307	2445679.40	1983 Dec 10 2134:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-S290	2445682.02	1983 Dec 13 1223	Super Loki	-	INTA SLD-8317	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1983-W366	2445684.17	1983 Dec 15 1558:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1983-M70	2445684.20	1983 Dec 15 1650	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1983-Y311	2445684.33	1983 Dec 15 2000:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y312	2445684.37	1983 Dec 15 2046:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W367	2445684.38	1983 Dec 15 2100	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y315	2445686.33	1983 Dec 17 1950:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y319	2445690.29	1983 Dec 21 1900:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W374	2445690.31	1983 Dec 21 1928	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W375	2445690.39	1983 Dec 21 2122	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W380	2445696.86	1983 Dec 28 0832:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W381	2445696.93	1983 Dec 28 1019:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W382	2445698.33	1983 Dec 29 1950	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y323	2445700.16	1983 Dec 31 1556:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-W383	2445700.21	1983 Dec 31 1700:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W02	2445704.33	1984 Jan 4 2000:00	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W03	2445704.37	1984 Jan 4 2058	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y04	2445706.37	1984 Jan 6 2052	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	MPAE/Widdel	Aeron	WDCRF	-	-
1984-Y06	2445706.42	1984 Jan 6 2210	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W06	2445706.45	1984 Jan 6 2244	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W07	2445707.33	1984 Jan 7 2000	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-S240	2445710.04	1984 Jan 10 1301	Super Loki	-	INTA SLD-8401	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-Y10	2445712.28	1984 Jan 12 1837	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y11	2445712.31	1984 Jan 12 1920	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W15	2445712.35	1984 Jan 12 2019	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W16	2445712.42	1984 Jan 12 2206	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y14	2445713.35	1984 Jan 13 2018	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W17	2445713.47	1984 Jan 13 2316	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W18	2445715.35	1984 Jan 15 2020	Super Loki	-	MAP/WINE M-M	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W22	2445718.01	1984 Jan 18 1215	Super Loki	-	-	0.000	WFC	SS	-	WFF/	Aeron	WDCRF	-	-
1984-S241	2445718.04	1984 Jan 18 1253	Super Loki	-	INTA SLD-8402	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-W25	2445718.33	1984 Jan 18 2000	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y26	2445720.98	1984 Jan 21 1131	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-S242	2445721.04	1984 Jan 21 1252	Super Loki	-	INTA SLD-8403	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-Y29	2445721.05	1984 Jan 21 1308	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y30	2445721.08	1984 Jan 21 1349	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W28	2445721.11	1984 Jan 21 1444	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-S243	2445724.05	1984 Jan 24 1316	Super Loki	-	INTA SLD-8404	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-W34	2445724.31	1984 Jan 24 1931	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W37	2445725.28	1984 Jan 25 1845	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W42	2445728.23	1984 Jan 28 1730	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-S244	2445730.08	1984 Jan 30 1357	Super Loki	-	INTA SLD-8405	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-W43	2445731.18	1984 Jan 31 1622	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y38	2445731.23	1984 Jan 31 1731	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y40	2445731.31	1984 Jan 31 1920	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y44	2445734.33	1984 Feb 3 2000	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W51	2445737.33	1984 Feb 6 2000	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W56	2445739.54	1984 Feb 9 0052	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y50	2445739.59	1984 Feb 9 0216	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W58	2445740.21	1984 Feb 9 1703:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-M78	2445740.23	1984 Feb 9 1730?	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1984-M79	2445740.23	1984 Feb 9 1730?	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1984-W59	2445740.31	1984 Feb 9 1922:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-W61	2445740.55	1984 Feb 10 0107	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y53	2445740.58	1984 Feb 10 0151	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y55	2445740.68	1984 Feb 10 0420	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y58	2445742.00	1984 Feb 11 1200:00	Super Loki	-	T 1-0784	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W71	2445742.33	1984 Feb 11 2000	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W73	2445744.33	1984 Feb 13 2000	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W77	2445746.60	1984 Feb 16 0228	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y66	2445748.53	1984 Feb 18 0047	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W80	2445748.58	1984 Feb 18 0149	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y67	2445748.61	1984 Feb 18 0238	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y69	2445748.66	1984 Feb 18 0355	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W81	2445749.93	1984 Feb 19 1026	Super Loki	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W82	2445749.99	1984 Feb 19 1152:00	Super Loki	-	M-D 033A	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W85	2445752.34	1984 Feb 21 2005:00	Super Loki	-	M-D 034A	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y78	2445754.21	1984 Feb 23 1700:00	Super Loki	-	M-D 035A	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-S245	2445789.00	1984 Mar 29 1205	Super Loki	-	INTA SLD-8406	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-Y88	2445804.05	1984 Apr 13 1314:00	Super Loki	-	T 1-0883	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W149	2445804.08	1984 Apr 13 1348:00	Super Loki	-	T 1-0884	0.000	WFC	SU	-	WFF/	Aeron	WDCRF	-	-
1984-W197	2445858.51	1984 Jun 07 0016:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1984-S246	2445865.02	1984 Jun 13 1235	Super Loki	-	INTA SLD-8407	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-S247	2445866.96	1984 Jun 15 1105	Super Loki	-	INTA SLD-8408	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-W206	2445871.50	1984 Jun 19 2359:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Aeron	WDCRF	-	-
1984-Y96	2445905.98	1984 Jul 24 1127:59	Super Loki	-	-	0.000	WFC	SS	-	GSFC/Maynard	Meteo	DSI-5850	-	-
1984-W255	2445928.13	1984 Aug 15 1511:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-M80	2445928.17	1984 Aug 15 1611	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1984-Y99	2445928.50	1984 Aug 16	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	www.pfrr.alaska.edu	-	-
1984-W262	2445935.89	1984 Aug 23 0926:59	Super Loki	-	VLF-TE support	0.000	GSFC	SS	-	GSFC/Goldberg?	Meteo	DSI-5850	SFLT26,445	-
1984-Y109	2445949.06	1984 Sep 5 1325	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W288	2445949.08	1984 Sep 05 1352:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1984-W297	2445954.34	1984 Sep 10 2010	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W303	2445962.08	1984 Sep 18 1400:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-M81	2445962.12	1984 Sep 18 1458	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1984-M82	2445962.13	1984 Sep 18 1505	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1984-M83	2445962.18	1984 Sep 18 1621	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1984-M84	2445962.19	1984 Sep 18 1628	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR91,D13,14521	-	-
1984-S248	2445965.00	1984 Sep 21 1206	Super Loki	-	INTA SLD-8409	0.000	INTA	SS	-	INTA/	Aeron	ElAren	-	-
1984-W310	2445970.36	1984 Sep 26 2037:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1984-Y117	2445978.35	1984 Oct 04 2018:00	Super Loki	-	PWD-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1984-Y122	2445987.19	1984 Oct 13 1639	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W337	2445987.21	1984 Oct 13 1659	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W350	2445996.15	1984 Oct 22 1530:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-M85	2445996.19	1984 Oct 22 1630	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1984-W355	2445999.89	1984 Oct 26 0915	Super Loki	-	-	0.000	WFF	SS	-	WFF/	Aeron	WDCRF	-	-
1984-W382	2446018.14	1984 Nov 13 1517:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1984-M86	2446018.18	1984 Nov 13 1615	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1984-Y129	2446020.99	1984 Nov 16 1149:00	Super Loki	-	PWN-12A	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-M51	2446081.12	1985 Jan 15 1500?	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron	JGR94,D2,2239	-	-
1985-M52	2446081.20	1985 Jan 15 1649	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-W33	2446093.40	1985 Jan 27 2130:00	Super Loki	-	DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W44	2446103.14	1985 Feb 6 1518:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-M53	2446103.17	1985 Feb 6 1612	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-M60	2446150.23	1985 Mar 25 1735	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-M61	2446152.23	1985 Mar 27 1735	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-W92	2446154.27	1985 Mar 29 1829:00	Super Loki	-	DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W93	2446157.22	1985 Apr 01 1717:00	Super Loki	-	DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W94	2446157.31	1985 Apr 01 1928:00	Super Loki	-	DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-M87	2446160.14	1985 Apr 4 1523	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-M63	2446160.94	1985 Apr 5 1036	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-M64	2446161.94	1985 Apr 6 1031	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-M65	2446169.25	1985 Apr 13 1755	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-M66	2446171.14	1985 Apr 15 1519	Super Loki	-	-	0.000	WFF	SS	-	WFF/INPE/Barnes,Kirch.	Aeron Ozone	JGR92,D5,5573	WIPR85-17	-
1985-Y11	2446175.07	1985 Apr 19 1335:00	Super Loki	-	DATASONDE	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W127	2446181.28	1985 Apr 25 1845:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-M54	2446181.32	1985 Apr 25 1945	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-M55	2446206.22	1985 May 20 1715	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-W162	2446206.27	1985 May 20 1822:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W188	2446236.27	1985 Jun 19 1826:59	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-M56	2446236.31	1985 Jun 19 1925	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-M57	2446277.04	1985 Jul 30 1300	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-W216	2446277.09	1985 Jul 30 1410:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-M58	2446292.30	1985 Aug 14 1915	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-W238	2446318.57	1985 Sep 10 0139:00	Super Loki	-	-	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-M59	2446327.31	1985 Sep 18 1930	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Parsons,Barnes	Aeron Ozone	JGR94,D2,2239	-	-
1985-W247	2446327.35	1985 Sep 18 2030:00	Super Loki	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	-
1985-W297	2446386.01	1985 Nov 16 1217:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W327	2446409.53	1985 Dec 10 0050:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W328	2446410.50	1985 Dec 11 0000:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W338	2446416.50	1985 Dec 17 0000:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-Y152	2446416.54	1985 Dec 17 0100:00	Super Loki	-	PWN-12A	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-W339	2446416.56	1985 Dec 17 0130:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-Y154	2446417.54	1985 Dec 18 0055:00	Super Loki	-	PWN-12A	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1985-Y155	2446417.56	1985 Dec 18 0120:00	Super Loki	-	PWN-11D	0.000	WFF	SU	-	WFF/	Test/Aeron	WDCRF	-	-
1986-Y243	2446638.43	1986 Jul 26 2214:30	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1986-Y244	2446638.48	1986 Jul 26 2328:10	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1986-Y245	2446638.50	1986 Jul 27 0006:00	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1986-Y246	2446638.53	1986 Jul 27 0050:00	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1986-Y247	2446639.43	1986 Jul 27 2214:30	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1986-Y248	2446639.47	1986 Jul 27 2316:00	Super Loki	-	PWN-12A Robin	0.000	GSFC	SS	-	GSFC/	Aeron	ssc.se	-	-
1987-A23	2446962.00	1987 Jun 15 1157	Super Loki	-	Sphere	0.000	DLR	SF	U	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y391	2446969.02	1987 Jun 22 1230	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y407	2446969.05	1987 Jun 22 1311	Super Loki	-	Chaff	0.000	DLR	SF	U	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y392	2446970.97	1987 Jun 24 1120	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y393	2446971.00	1987 Jun 24 1153	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y406	2446971.02	1987 Jun 24 1225	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y394	2446971.03	1987 Jun 24 1240	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y395	2446971.06	1987 Jun 24 1333	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y396	2446972.98	1987 Jun 26 1127	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y411	2446973.00	1987 Jun 26 1201	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y397	2446973.03	1987 Jun 26 1244	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y398	2446973.07	1987 Jun 26 1336	Super Loki	-	Chaff	0.000	DLR	SS	-	BONN/VonZahn	Aeron	JASTP63,1831	-	-
1987-Y201	2446978.39	1987 Jul 01 2128:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y202	2446978.43	1987 Jul 01 2215:00	Super Loki	-	HEAVY CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-W177	2446978.48	1987 Jul 01 2334:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y204	2446978.49	1987 Jul 01 2349:00	Super Loki	-	HEAVY CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y219	2446990.87	1987 Jul 14 0852:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y221	2446990.90	1987 Jul 14 0943:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y222	2446990.93	1987 Jul 14 1019:00	Super Loki	-	HEAVY CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y224	2446990.98	1987 Jul 14 1130:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y225	2446991.00	1987 Jul 14 1203:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y227	2446991.05	1987 Jul 14 1307:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-W185	2446991.60	1987 Jul 15 0223:00	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Meteo	DSI-5850	-	-
1987-Y231	2446992.05	1987 Jul 15 1306:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y234	2446992.35	1987 Jul 15 2030:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y236	2446992.39	1987 Jul 15 2117:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y238	2446992.42	1987 Jul 15 2201:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y239	2446992.44	1987 Jul 15 2230:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y240	2446992.45	1987 Jul 15 2254:00	Super Loki	-	LIGHT CHAFF	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-W198	2447003.79	1987 Jul 27 0652:00	Super Loki	-	-	0.000	MRN	SS	-	WFF/Schmidlin?	Meteo	DSI-5850	-	-
1987-Y303	2447083.96	1987 Oct 15 1057:00	Super Loki	-	Light Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	WDCRF	-	-
1987-Y304	2447083.98	1987 Oct 15 1132:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SS	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-W253	2447083.98	1987 Oct 15 1133:00	Super Loki	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	WDCRF	-	-
1987-Y305	2447084.01	1987 Oct 15 1214:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SS	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y412	2447084.06	1987 Oct 15 1332:00	Super Loki	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y313	2447090.42	1987 Oct 21 2208:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y314	2447090.44	1987 Oct 21 2228:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y315	2447090.44	1987 Oct 21 2237:00	Super Loki	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y324	2447096.51	1987 Oct 28 0011:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y325	2447096.52	1987 Oct 28 0031:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y331	2447101.10	1987 Nov 01 1430:00	Super Loki	-	Chaff Test 2	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y345	2447111.53	1987 Nov 12 0041:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1987-Y346	2447111.54	1987 Nov 12 0101:00	Super Loki	-	FALLING SPHERE	0.000	GSFC	SU	-	GSFC/Schmidlin	Aeron	WDCRF	-	-
1988-M50	2447466.35	1988 Oct 31 2017	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1988-M51	2447467.35	1988 Nov 1 2025	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1988-M52	2447468.42	1988 Nov 2 2211	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1988-M53	2447471.44	1988 Nov 5 2237	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M06	2447728.32	1989 Jul 20 1939	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M07	2447732.31	1989 Jul 24 1922	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M08	2447734.37	1989 Jul 26 2053	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M09	2447735.28	1989 Jul 27 1849	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M10	2447736.27	1989 Jul 28 1827	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1989-M11	2447741.23	1989 Aug 2 1738	Super Loki	-	-	0.000	WFF	SS	-	WFF/Barnes,Parsons	Aeron	JGR100,D5,9209	-	-
1990-Y20	2447903.39	1990 Jan 11 2121:00	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y21	2447903.44	1990 Jan 11 2239:00	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y32	2447907.40	1990 Jan 15 2140	Super Loki	-	Datasonde	0.000	INTA	SF	U	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y33	2447907.46	1990 Jan 15 2256	Super Loki	-	Datasonde	0.000	INTA	SF	U	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y34	2447907.67	1990 Jan 16 0401	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y39	2447909.05	1990 Jan 17 1310	Super Loki	-	Datasonde SL-2	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y46	2447910.35	1990 Jan 18 2029	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y48	2447910.38	1990 Jan 18 2109	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y49	2447910.39	1990 Jan 18 2115:40	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y50	2447910.67	1990 Jan 19 0407:00	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-W190	2447912.01	1990 Jan 20 1210	Super Loki	-	SL-3	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ1990	-	-
1990-Y61	2447914.33	1990 Jan 22 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y62	2447914.37	1990 Jan 22 2056	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y63	2447914.66	1990 Jan 23 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-S192	2447915.39	1990 Jan 23 2117	Super Loki	-	Datasonde	0.000	INTA	SU	-	INTA/Gil-Ojeda	Aeron	ElAren	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-Y65	2447915.42	1990 Jan 23 2209	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y76	2447917.33	1990 Jan 25 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y78	2447917.40	1990 Jan 25 2132	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y79	2447917.66	1990 Jan 26 0346	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y82	2447920.38	1990 Jan 28 2111	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y83	2447921.02	1990 Jan 29 1225	Super Loki	-	Datasonde SL-4	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y86	2447921.34	1990 Jan 29 2007:11	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y87	2447921.66	1990 Jan 30 0346	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y88	2447922.39	1990 Jan 30 2115	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y92	2447923.02	1990 Jan 31 1225	Super Loki	-	Datasonde SL-5	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y102	2447924.34	1990 Feb 1 2002:30	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y103	2447924.39	1990 Feb 1 2125:00	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y104	2447924.68	1990 Feb 2 0419	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y105	2447925.33	1990 Feb 2 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y107	2447928.00	1990 Feb 5 1200	Super Loki	-	Datasonde SL-6	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y111	2447928.35	1990 Feb 5 2020	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-S193	2447928.40	1990 Feb 5 2134	Super Loki	-	Datasonde	0.000	INTA	SU	-	INTA/Gil-Ojeda	Aeron	ElAren	-	-
1990-Y112	2447928.43	1990 Feb 5 2214	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y113	2447928.66	1990 Feb 6 0346	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y123	2447931.33	1990 Feb 8 2000	Super Loki	-	Sphere	0.000	WFF	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y126	2447931.38	1990 Feb 8 2112	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y127	2447931.39	1990 Feb 8 2117	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y128	2447931.67	1990 Feb 9 0405	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y134	2447935.33	1990 Feb 12 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y135	2447935.38	1990 Feb 12 2100	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y136	2447935.66	1990 Feb 13 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y143	2447938.33	1990 Feb 15 2002	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y144	2447938.40	1990 Feb 15 2134	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y145	2447938.66	1990 Feb 16 0355	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y148	2447940.33	1990 Feb 17 2000	Super Loki	-	Sphere	0.000	WFF	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y150	2447940.38	1990 Feb 17 2102	Super Loki	-	Sphere	0.000	WFF	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y154	2447942.34	1990 Feb 19 2003:35	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y155	2447942.40	1990 Feb 19 2135	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y158	2447942.66	1990 Feb 20 0345:00	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y172	2447945.34	1990 Feb 22 2015	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y173	2447945.38	1990 Feb 22 2113	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y174	2447945.66	1990 Feb 23 0346	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y184	2447949.33	1990 Feb 26 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y185	2447949.40	1990 Feb 26 2130	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y186	2447949.66	1990 Feb 27 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-A13	2447952.34	1990 Mar 1 2015	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-PAC92-AnnexI	-	-
1990-Y194	2447952.36	1990 Mar 1 2042	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-S194	2447952.39	1990 Mar 1 2118	Super Loki	-	Datasonde	0.000	INTA	SU	-	INTA/Gil-Ojeda	Aeron	ElAren	-	-
1990-Y195	2447952.42	1990 Mar 1 2203	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y196	2447952.66	1990 Mar 2 0352:16	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y200	2447956.29	1990 Mar 5 1901	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y201	2447956.43	1990 Mar 5 2220	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y329	2447956.64	1990 Mar 6 0326	Super Loki	-	-	0.000	DLR	SF	U	WUPP/Grossmann	Aeron	ssc.se	-	-
1990-Y206	2447956.66	1990 Mar 6 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y221	2447959.29	1990 Mar 8 1904	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y223	2447959.39	1990 Mar 8 2115	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y231	2447959.71	1990 Mar 9 0502	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y242	2447963.33	1990 Mar 12 2000	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y243	2447963.40	1990 Mar 12 2129	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y248	2447963.66	1990 Mar 13 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y254	2447965.31	1990 Mar 14 1930	Super Loki	-	Datasonde	0.000	DLR	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y256	2447966.38	1990 Mar 15 2114	Super Loki	-	Datasonde	0.000	INTA	SS	-	INTA/Gil-Ojeda	Aeron	ESA-SP317-381	-	-
1990-Y257	2447966.66	1990 Mar 16 0345	Super Loki	-	Datasonde	0.000	AETE/WFF	SS	-	WFF/Schmidlin	Aeron	ESA-SP317-381	-	-
1990-Y330	2448098.38	1990 Jul 25 2100	Super Loki	-	Robin Dart	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1990-Y331	2448099.42	1990 Jul 26 2205	Super Loki	-	Robin Dart	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1990-Y333	2448099.50	1990 Jul 26 2355	Super Loki	-	Robin Dart	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1990-W219	2448106.49	1990 Aug 2 2346	Super Loki	-	Robin Dart	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-W170	2448356.23	1991 Apr 9 1738	Super Loki	-	SISSI So5	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-Y50	2448356.33	1991 Apr 9 1950	Super Loki	-	SISSI So6	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-Y51	2448356.36	1991 Apr 9 2041	Super Loki	-	SISSI So7	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-S205	2448527.47	1991 Sep 27 2318:00	Super Loki	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S214	2448533.55	1991 Oct 4 0116:30	Super Loki	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1992-Y33	2448856.50	1992 Aug 22	Microstar	-	-	0.000	SPFL	SS	-	SPFL/	Aeron	SN920907-11	-	-
1992-W97	2448909.50	1992 Oct 14	Super Loki	-	-	0.000	KSC	SS	-	KSC/	Education	Cleary95	-	-
1994-Y01	2449666.11	1994 Nov 9 1445	Super Loki	?	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1994-Y02	2449682.46	1994 Nov 25 2300	Super Loki	?	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1995-M02	2449850.38	1995 May 12 2100	Super Loki	-	Dart	0.000	WFF	SS	-	WFF/	Education	NASA-PR95-68	-	-
1995-W08	2449923.95	1995 Jul 25 1041:00	Super Loki	-	-	0.000	GSFC	SS	-	USU/Espy	Aeron	www.pfrr.alaska.edu	-	-
1995-W09	2449937.88	1995 Aug 8 0910:00	Super Loki	-	-	0.000	GSFC	SS	-	USU/Espy	Aeron	www.pfrr.alaska.edu	-	-
1995-W10	2450042.08	1995 Nov 20 1400	Super Loki	-	DLR KO-SL-218	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1995-W11	2450045.08	1995 Nov 23 1400	Super Loki	-	DLR KO-SL-219	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1996-S88	2450238.50	1996 Jun 4	Super Loki	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1997-W36	2450665.45	1997 Aug 4 2255:00	Super Loki	-	Datasonde 11D	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W39	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W40	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W41	2450666.50	1997 Aug 6	Super Loki	-	Datasonde 10D	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y08	2450669.06	1997 Aug 8 1319:30	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y09	2450670.06	1997 Aug 9 1329	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W47	2450669.17	1997 Aug 8 1600?	Super Loki	-	Falling Sphere	0.000	LARCN	SS	-	LARC/Mlynczak	Aeron	crista.uni-wup	-	-
1997-W48	2450669.17	1997 Aug 8 1600?	Super Loki	-	Falling Sphere	0.000	LARCN	SS	-	LARC/Mlynczak	Aeron	crista.uni-wup	-	-
1997-Y10	2450670.46	1997 Aug 9 2257	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-W49	2450670.47	1997 Aug 9 2312	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W50	2450671.39	1997 Aug 10 2121:20	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y13	2450671.40	1997 Aug 10 2130:10	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y15	2450672.07	1997 Aug 11 1338	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W54	2450672.38	1997 Aug 11 2110	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W55	2450672.39	1997 Aug 11 2119	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y17	2450672.40	1997 Aug 11 2134	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y18	2450673.01	1997 Aug 12 1210	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y20	2450673.02	1997 Aug 12 1226:06	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W56	2450673.40	1997 Aug 12 2130	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y21	2450673.40	1997 Aug 12 2141	Super Loki	-	Falling Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y22	2450674.08	1997 Aug 13 1350	Super Loki	-	Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y23	2450674.08	1997 Aug 13 1355	Super Loki	-	Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y24	2450674.39	1997 Aug 13 2123	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y25	2450674.40	1997 Aug 13 2140	Super Loki	-	Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y26	2450675.02	1997 Aug 14 1222	Super Loki	-	Sphere	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W60	2450675.39	1997 Aug 14 2127:10	Super Loki	-	Datasonde	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W61	2450675.95	1997 Aug 15 1053	Super Loki	-	-	0.000	WFF	SF	U	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y30	2450676.35	1997 Aug 15 2025	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W62	2450679.31	1997 Aug 18 1930	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W63	2450679.32	1997 Aug 18 1940	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W77	2450752.14	1997 Oct 30 1524:07	Super Loki	-	DLR KO-SL-227	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1997-W78	2450752.21	1997 Oct 30 1700	Super Loki	-	DLR KO-SL-228	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1998-Y37	2450879.52	1998 Mar 7 0033	Super Loki	-	Chaff	0.000	SSC?	SS	-	SSC/??	Aeron	ssc.se	-	-
1998-Y38	2450879.56	1998 Mar 7 0124	Super Loki	-	Chaff	0.000	SSC?	SS	-	SSC/??	Aeron	ssc.se	-	-
1998-W16	2450940.50	1998 May 7	Super Loki	-	-	0.000	WSMR	SS	-	WSMR/	Aeron	www.wsmr.army.mil	-	-
1998-S74	2451107.50	1998 Oct 21	Super Loki	-	-	0.000	ESA	SS	-	ESA/	Meteo	HDLCSG	-	-
1998-Y35	2451109.48	1998 Oct 22 2330?	Super Loki	-	-	0.000	KSC	SS	-	KSC/	Aeron	AIAA99-4849	-	-
1998-Y36	2451109.52	1998 Oct 23 0030?	Super Loki	-	-	0.000	KSC	SS	-	KSC/	Aeron	AIAA99-4849	-	-
1999-W04	2451364.48	1999 Jul 4 2338:00	Super Loki	-	MD-CH-01	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W12	2451365.60	1999 Jul 6 0229	Super Loki	-	MD-CH-11	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W19	2451375.90	1999 Jul 16 0930	Super Loki	-	MD-CH-19	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2000-W03	2451565.18	2000 Jan 21 1622	Super Loki	-	LiteStar	0.000	SPFL	SS	-	FLASP/	Education	SPFLA-WWW	-	-
2000-W32	2451891.33	2000 Dec 12 2000	Super Loki	-	LiteStar	0.000	SPFL	SS	-	FLASP/	Test	SPFLA-WWW	-	-
2000-W33	2451892.17	2000 Dec 13 1600	Super Loki	-	LiteStar	0.000	SPFL	SS	-	FLASP/	Test	SPFLA-WWW	-	-
2001-W15	2452258.93	2001 Dec 15 1020:30	Super Loki	-	Wind	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2001-Y31	2452259.00	2001 Dec 15 1153:30	Super Loki	-	Wind	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2001-W16	2452259.63	2001 Dec 16 0311:30	Super Loki	-	-	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2001-W17	2452259.74	2001 Dec 16 0543	Super Loki	-	Falling Sphere	0.000	SSC	SS	-	STO/	Aeron	ESA-SP-530	-	-
2001-W18	2452259.76	2001 Dec 16 0618	Super Loki	-	Falling Sphere	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2002-W05	2452454.22	2002 Jun 28 1710:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W06	2452457.22	2002 Jul 1 1720:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W07	2452457.31	2002 Jul 1 1920:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W13	2452457.53	2002 Jul 2 0040:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W15	2452457.60	2002 Jul 2 0220:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W16	2452457.64	2002 Jul 2 0320:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W17	2452460.30	2002 Jul 4 1918:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W19	2452460.36	2002 Jul 4 2045:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W21	2452460.43	2002 Jul 4 2215:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W27	2452460.67	2002 Jul 5 0400:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W28	2452460.71	2002 Jul 5 0500:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W29	2452460.75	2002 Jul 5 0600:00	Super Loki	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2003-Y37	2452653.05	2003 Jan 13 1308	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y38	2452653.12	2003 Jan 13 1449	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y39	2452654.04	2003 Jan 14 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y40	2452654.08	2003 Jan 14 1400	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y01	2452655.04	2003 Jan 15 1302	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y02	2452656.04	2003 Jan 16 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y03	2452657.04	2003 Jan 17 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y41	2452658.04	2003 Jan 18 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y42	2452659.04	2003 Jan 19 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y04	2452661.04	2003 Jan 21 1300	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	www.ssc.se	-	-
2003-Y43	2452662.04	2003 Jan 22 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y44	2452662.07	2003 Jan 22 1335	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y45	2452663.04	2003 Jan 23 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y46	2452663.05	2003 Jan 23 1315	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y47	2452663.08	2003 Jan 23 1350	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y48	2452664.04	2003 Jan 24 1300	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y05	2452664.05	2003 Jan 24 1311	Super Loki	-	ES03SL13	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y06	2452664.09	2003 Jan 24 1403	Super Loki	-	ES03SL14	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y07	2452664.13	2003 Jan 24 1505	Super Loki	-	ES03SL15	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y08	2452664.17	2003 Jan 24 1600	Super Loki	-	ES03SL16	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y09	2452664.21	2003 Jan 24 1700	Super Loki	-	ES03SL17	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y10	2452664.25	2003 Jan 24 1800	Super Loki	-	ES03SL18	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y11	2452664.29	2003 Jan 24 1901	Super Loki	-	ES03SL19	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y12	2452664.33	2003 Jan 24 2000	Super Loki	-	ES03SL20	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y13	2452664.38	2003 Jan 24 2102	Super Loki	-	ES03SL21	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y14	2452664.42	2003 Jan 24 2200	Super Loki	-	ES03SL22	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y15	2452664.46	2003 Jan 24 2300	Super Loki	-	ES03SL24	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y23	2452664.50	2003 Jan 25 0000	Super Loki	-	ES03SL25	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y24	2452664.54	2003 Jan 25 0058	Super Loki	-	ES03SL26	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y49	2452666.04	2003 Jan 26 1300	Super Loki	-	ES03SL26?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y50	2452667.04	2003 Jan 27 1300	Super Loki	-	ES03SL27?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y51	2452667.13	2003 Jan 27 1505	Super Loki	-	ES03SL28?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y52	2452667.16	2003 Jan 27 1545	Super Loki	-	ES03SL29?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y53	2452667.19	2003 Jan 27 1633	Super Loki	-	ES03SL30?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2003-Y54	2452667.31	2003 Jan 27 1926	Super Loki	-	ES03SL31?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y55	2452667.32	2003 Jan 27 1938	Super Loki	-	ES03SL32?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y16	2452668.04	2003 Jan 28 1300	Super Loki	-	ES03SL34	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y17	2452668.13	2003 Jan 28 1504	Super Loki	-	ES03SL35	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y18	2452668.16	2003 Jan 28 1557	Super Loki	-	ES03SL36	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y30	2452668.21	2003 Jan 28 1656	Super Loki	-	ES03SL33?	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	ssc.se	-	-
2003-Y19	2452668.21	2003 Jan 28 1705	Super Loki	-	ES03SL38	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y20	2452668.25	2003 Jan 28 1757	Super Loki	-	ES03SL39	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y21	2452668.28	2003 Jan 28 1842	Super Loki	-	ES03SL41	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y22	2452668.32	2003 Jan 28 1942	Super Loki	-	ES03SL42	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	Goldberg,etal	www.ssc.se	-
2003-Y25	2452669.04	2003 Jan 29 1300	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	www.ssc.se	-	-
2003-Y26	2452670.04	2003 Jan 30 1300	Super Loki	-	-	0.000	GSFC	SS	-	GSFC/Goldberg	Aeron	www.ssc.se	-	-
2003-Y27	2452670.05	2003 Jan 30 1312	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y28	2452670.38	2003 Jan 30 2110	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y29	2452670.41	2003 Jan 30 2155	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y31	2452670.42	2003 Jan 30 2203	Super Loki	-	-	0.000	WFF	SS	-	WFF/Schmidlin	Aeron	www.ssc.se	-	-
2003-Y34	2452860.10	2003 Aug 8 1430	Shadow 1	-	1	0.000	FLASP	SS	-	LRRC/	Edu	SpaceNews030818-15	LRRC.pdf	-
2003-Y35	2452860.15	2003 Aug 8 1530	Shadow 1	-	2	0.000	FLASP	SS	-	LRRC/	Edu	LRRC.pdf	aerowebspace.com	-
2003-Y36	2452863.50	2003 Aug 12	Super Loki	-	-	0.000	FLASP	SS	-	FLASP/	Edu	SpaceNews030818-15	-	-
2003-W01	2452950.50	2003 Nov 7	Super Loki	-	-	0.000	FLASP	SS	-	FLASP/	Edu	Wire	-	-
2004-Y01	2453250.10	2004 Sep 1 1430	Shadow 1	-	Shadow 1B	0.000	FLASP	SS	-	LRRC/FLASP/	Edu	SpaceNews040910-10	-	-
2005-Y01	2453380.65	2005 Jan 10 0329	Super Loki	-	-	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2005-Y02	2453380.75	2005 Jan 10 0600	Super Loki	-	-	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2005-Y03	2453380.79	2005 Jan 10 0703	Super Loki	-	-	0.000	SSC	SS	-	STO/	Aeron	www.ssc.se	-	-
2005-Y09	2453389.08	2005 Jan 18 1358:00	Super Loki	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y12	2453389.17	2005 Jan 18 1607	Super Loki	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y15	2453389.25	2005 Jan 18 1757	Super Loki	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y18	2453390.89	2005 Jan 20 0916	Super Loki	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2006-A01	2453873.08	2006 May 17 1400	Super Loki	-	Genesis test	0.000	SPFL	SS	-	BRVCC/	Test	Missileer48,21	-	-
2006-Y01	2453894.93	2006 Jun 8 1020	Super Loki	-	-	0.000	WFF	SS	-	PSU/WFF/Croskey	Aeron/Test	ESA-SP647-241	www.wff.nasa.gov	-
2007-A14	2454440.17	2007 Dec 5 1606:25	Shadow 1	-	Shadow 1B	0.000	KYSP	SF	U	KYSP/	Tech	youtube/BHjrUmD9kfM	-	-
2008-S73	2454732.06	2008 Sep 22 1330	Super Loki	-	-	0.000	SPFL	SS	-	SPFL/	Test	nasaspaceflight.now	-	-
2009-S21	2454938.97	2009 Apr 17 1118	FalconLaunch	-	FalconLaunch 7	0.000	USAFA	SS	-	USAFA/	Test	Wire	-	-
2013-S67	2456469.50	2013 Jun 26	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S69	2456470.50	2013 Jun 27?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S70	2456470.50	2013 Jun 27?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S71	2456470.50	2013 Jun 27?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S72	2456470.50	2013 Jun 27?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S73	2456471.50	2013 Jun 28?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S74	2456472.50	2013 Jun 29?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S75	2456473.50	2013 Jun 30?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S76	2456474.50	2013 Jul 1?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S77	2456475.50	2013 Jul 2?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-
2013-S78	2456476.50	2013 Jul 3?	Super Loki	-	-	0.000	DLR	SS	-	IAP/IRSS/	Aeron	rocketrange.no	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A374	2435251.25	1955 May 23 1805	X-17 QTV	-	Q-1	-	-	-	-	CC	LC3	-	-	10	17	-
1955-A375	2435251.32	1955 May 23 1944	X-17 QTV	-	Q-2	-	-	-	-	CC	LC3	-	-	11	17	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A374	2435251.25	1955 May 23 1805	X-17 QTV	-	Q-1	0.000	6555A	AS	-	-	Test	X17FR	X-Planes	-
1955-A375	2435251.32	1955 May 23 1944	X-17 QTV	-	Q-2	0.000	6555A	AS	-	-	Test	X17FR	X-Planes	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-A50	2436983.50	1960 Feb 19	T-7M	-	-	-	-	-	-	LAOG	-	-	-	8	-	-
1960-W24	2437177.50	1960 Sep	T-7	-	-	-	-	-	-	SHIJ	-	-	-	60	-	-
1963-S578	2438363.50	1963 Dec	T-7A	-	-	-	-	-	-	SHIJ?	-	-	-	115	-	-
1964-M17	2438595.50	1964 Jul 19	T-7A-S	-	-	Life Sci (mice)	-	-	-	SHIJ?	-	-	-	70	-	-
1965-M16	2438912.50	1965 Jun 1	T-7A-S	-	-	Life Sci (mice)	-	-	-	SHIJ?	-	-	-	70?	-	-
1965-M17	2438916.50	1965 Jun 5	T-7A-S	-	-	Life Sci (mice)	-	-	-	SHIJ?	-	-	-	70?	-	-
1965-Y01	2438760.50	1965	T-7	-	-	DFH test	-	-	-	JQ	-	-	-	83	-	-
1966-S371	2439320.50	1966 Jul 14	T-7A-S2	-	-	Life Sci (dog)	-	-	-	SHIJ?	-	-	-	100	-	-
1966-S399	2439334.50	1966 Jul 28	T-7A-S2	-	-	Life Sci (dog)	-	-	-	SHIJ?	-	-	-	100	-	-
1968-S445	2440076.50	1968 Aug 8	T-7/GF-01A	-	-	GF-01A test	-	-	-	JQ?	-	-	-	311	-	-
1968-S462	2440088.50	1968 Aug 20	T-7/GF-01A	-	-	GF-01A test	-	-	-	JQ?	-	-	-	311	-	-
1969-Y01	2440221.50	1969	T-7	-	-	DFH test	-	-	-	JQ	-	-	-	81	-	-
1969-S354	2440372.50	1969 Jun	T-7A	-	-	FSW test	-	-	-	JQ	-	-	-	100?	-	-
1969-S386	2440402.50	1969 Jul	T-7A	-	-	FSW test	-	-	-	JQ	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-A50	2436983.50	1960 Feb 19	T-7M	-	-	0.000	SIMED	SS	-	SIMED/Wang	Test	Harvey	-	-
1960-W24	2437177.50	1960 Sep	T-7	-	-	0.000	SIMED	SS	-	SIMED/Wang	Test	Harvey	-	-
1963-S578	2438363.50	1963 Dec	T-7A	-	-	0.000	SIMED	SS	-	SIMED/Wang	Test	Harvey	-	-
1964-M17	2438595.50	1964 Jul 19	T-7A-S	-	-	0.000	SIMED	SS	-	SIMED/Wang?	Biology	Harvey	-	-
1965-M16	2438912.50	1965 Jun 1	T-7A-S	-	-	0.000	SIMED	SS	-	SIMED/	Biology	Harvey	-	-
1965-M17	2438916.50	1965 Jun 5	T-7A-S	-	-	0.000	SIMED	SS	-	SIMED/	Biology	Harvey	-	-
1965-Y01	2438760.50	1965	T-7	-	-	0.000	CALT	SS	-	CAST/	Tech	Harvey	-	-
1966-S371	2439320.50	1966 Jul 14	T-7A-S2	-	-	0.000	SIMED	SS	-	SIMED/	Biology	Harvey	-	-
1966-S399	2439334.50	1966 Jul 28	T-7A-S2	-	-	0.000	SIMED	SS	-	SIMED/	Biology	Harvey	-	-
1968-S445	2440076.50	1968 Aug 8	T-7/GF-01A	-	-	0.000	CALT	SS	-	ARMT/	Test	Harvey	-	-
1968-S462	2440088.50	1968 Aug 20	T-7/GF-01A	-	-	0.000	CALT	SS	-	ARMT/	Test	Harvey	-	-
1969-Y01	2440221.50	1969	T-7	-	-	0.000	CALT	SS	-	CAST/	Tech	Harvey	-	-
1969-S354	2440372.50	1969 Jun	T-7A	-	-	0.000	CALT	SS	-	CAST/	Tech	Harvey	-	-
1969-S386	2440402.50	1969 Jul	T-7A	-	-	0.000	CALT	SS	-	CAST/	Tech	Harvey	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1953-A263	2434553.50	1953 Jun 25	Nike T48 Ajax	-	1249B-1217	Nike 222R	-	-	-	WS	-	-	-	10?	-	-
1953-A296	2434575.50	1953 Jul 17	Nike T48 Ajax	-	1249B-1239	Nike 229R	-	-	-	WS	-	-	-	10?	-	-
1953-A431	2434684.50	1953 Nov 03	Nike T48 Ajax	-	1294B-1261 T48	Nike 260R/Bell motor	-	-	-	WS	-	-	-	10?	-	-
1954-A298	2434888.50	1954 May 26	Nike T48 Ajax	-	1249A-193	Nike 287R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A299	2434888.50	1954 May 26	Nike T48 Ajax	-	1249A-190	Nike 289R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A312	2434895.50	1954 Jun 02	Nike T48 Ajax	-	1249B-1409	Nike 290R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A313	2434895.50	1954 Jun 02	Nike T48 Ajax	-	1249B-1303	Nike 292R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A484	2434979.50	1954 Aug 25	Nike T48 Ajax	-	1249B-2517	Nike 364R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A488	2434979.50	1954 Aug 25	Nike T48 Ajax	-	1249B-2521	Nike 365R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A498	2434986.50	1954 Sep 01	Nike T48 Ajax	-	1249B-2529	Nike 366R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A496	2434986.50	1954 Sep 01	Nike T48 Ajax	-	1249B-2549	Nike 367R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A526	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2533	Nike 374R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A524	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2795	Nike 375R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A525	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2515	Nike 376R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A533	2435007.50	1954 Sep 22	Nike T48 Ajax	-	1249B-2685	Nike 378R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A536	2435007.50	1954 Sep 22	Nike T48 Ajax	-	1249B-2815	Nike 379R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A551	2435014.50	1954 Sep 29	Nike T48 Ajax	-	1249B-2847	Nike 382R T48E2	-	-	-	WS	-	-	-	10?	-	-
1954-A552	2435014.50	1954 Sep 29	Nike T48 Ajax	-	1249B-2873	Nike 383R T48E2	-	-	-	WS	-	-	-	10?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1953-A263	2434553.50	1953 Jun 25	Nike T48 Ajax	-	1249B-1217	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A296	2434575.50	1953 Jul 17	Nike T48 Ajax	-	1249B-1239	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1953-A431	2434684.50	1953 Nov 03	Nike T48 Ajax	-	1294B-1261 T48	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A298	2434888.50	1954 May 26	Nike T48 Ajax	-	1249A-193	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A299	2434888.50	1954 May 26	Nike T48 Ajax	-	1249A-190	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A312	2434895.50	1954 Jun 02	Nike T48 Ajax	-	1249B-1409	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A313	2434895.50	1954 Jun 02	Nike T48 Ajax	-	1249B-1303	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A484	2434979.50	1954 Aug 25	Nike T48 Ajax	-	1249B-2517	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A488	2434979.50	1954 Aug 25	Nike T48 Ajax	-	1249B-2521	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A498	2434986.50	1954 Sep 01	Nike T48 Ajax	-	1249B-2529	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A496	2434986.50	1954 Sep 01	Nike T48 Ajax	-	1249B-2549	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A526	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2533	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A524	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2795	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A525	2435000.50	1954 Sep 15	Nike T48 Ajax	-	1249B-2515	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A533	2435007.50	1954 Sep 22	Nike T48 Ajax	-	1249B-2685	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A536	2435007.50	1954 Sep 22	Nike T48 Ajax	-	1249B-2815	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A551	2435014.50	1954 Sep 29	Nike T48 Ajax	-	1249B-2847	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-
1954-A552	2435014.50	1954 Sep 29	Nike T48 Ajax	-	1249B-2873	0.000	ORD	AS	-	-	Test	wsmr-history.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1995-S34	2449829.13	1995 Apr 21 1504	THAAD	1	FT-01	-	-	-	-	WS	-	-	-	100	-	-
1995-S52	2449929.50	1995 Jul 31	THAAD	1	FT-02	-	-	-	-	WS	-	-	-	100?	-	-
1995-S68	2450004.11	1995 Oct 13 1441?	THAAD	1	FT-03	-	-	-	-	WS	-	-	-	100?	-	-
1995-S87	2450065.00	1995 Dec 13 1205	THAAD	1	FT-04	-	-	-	-	WS	-	-	-	100?	-	-
1996-S14	2450164.50	1996 Mar 22	THAAD	1	FT-05	-	-	-	-	WS	-	-	-	100?	-	-
1996-S42	2450279.98	1996 Jul 15 1131?	THAAD	1	FT-06	-	-	-	-	WS	-	-	-	100?	-	-
1997-S24	2450514.03	1997 Mar 6 1241?	THAAD	1	FT-07	-	-	-	-	WS	-	-	-	100?	-	-
1998-A01	2450945.97	1998 May 12 1120	THAAD	1	FT-08	-	-	-	-	WS	-	-	-	0?	-	-
1999-S20	2451267.01	1999 Mar 29 1220	THAAD	1	FT-09	-	-	-	-	WS	-	-	-	100?	-	-
1999-S36	2451339.97	1999 Jun 10 1114	THAAD	1	FT-10	High Endo	-	-	-	WS	-	-	-	90?	-	-
1999-S52	2451392.99	1999 Aug 2 1144	THAAD	1	FT-11	Exo	-	-	-	WS	-	-	-	100	-	-
2005-S54	2453696.50	2005 Nov 22	THAAD	-	THAAD FTT-01	Block 04 Demo FT-12	-	-	-	WS	-	-	-	100?	-	-
2006-S21	2453866.50	2006 May 11	THAAD	-	THAAD FTT-02	Virtual Target FT-13	-	-	-	WS	-	-	-	100?	-	-
2006-M02	2453928.97	2006 Jul 12 1120	THAAD	-	THAAD FTT-03	High Endo	-	-	-	WS	-	-	-	60?	-	-
2007-S07	2454127.72	2007 Jan 27 0520	THAAD	-	THAAD FTT-06	High Endo	-	-	-	KAU	-	-	-	90?	-	-
2007-M02	2454196.78	2007 Apr 6 0645	THAAD	-	THAAD FTT-07	Mid Endo	-	-	-	KAU	-	-	-	60?	-	-
2007-A05	2454277.50	2007 Jun 26	THAAD	-	THAAD FTT-05	Low Endo	-	-	-	WS	-	-	-	40?	-	-
2007-S53	2454400.80	2007 Oct 27 0718?	THAAD	-	THAAD FTT-08	Exo	-	-	-	KAU	-	-	-	100?	-	-
2008-M02	2454643.60	2008 Jun 26 0222	THAAD	-	THAAD FTT-09	Mid Endo	-	-	-	KAU	-	-	-	60?	-	-
2009-M05	2454908.52	2009 Mar 18 0030	THAAD	-	THAAD FTT-10a Salvo	High Endo	-	-	-	KAU	-	-	-	60?	-	-
2009-A04	2454908.52	2009 Mar 18 0030	THAAD	-	THAAD FTT-10a Salvo	High Endo	-	-	-	KAU	-	-	-	60?	-	-
2010-A03	2455376.82	2010 Jun 29 0737	THAAD	-	THAAD FTT-14	Low Endo	-	-	-	KAU	-	-	-	20?	-	-
2011-S47	2455839.75	2011 Oct 5 0600?	THAAD	-	THAAD FTT-12	-	-	-	-	KAU	-	-	-	100?	-	-
2011-S48	2455839.75	2011 Oct 5 0600?	THAAD	-	THAAD FTT-12	-	-	-	-	KAU	-	-	-	100?	-	-
2012-S67	2456225.50	2012 Oct 25?	THAAD	-	THAAD FTI-01	-	-	-	-	KMR	Meck	-	-	100?	-	-
2013-S60	2456545.50	2013 Sep 10	THAAD	-	THAAD FTO-01	eMBRM intercept	-	-	-	KMR	Meck	-	-	100?	-	-
2013-S61	2456545.50	2013 Sep 10	THAAD	-	THAAD FTO-01	Aegis Backup	-	-	-	KMR	Meck	-	-	100?	-	-
2015-S62	2457327.63	2015 Nov 1 0307?	THAAD	-	THAAD FTO-02 E2a	SRALT intercept	-	-	-	WAKE	T	-	-	100?	-	-
2015-S64	2457327.63	2015 Nov 1 0312?	THAAD	-	THAAD FTO-02 E2a	eMRBM intercept	-	-	-	WAKE	T	-	-	100?	-	-
2017-S57	2457945.50	2017 Jul 11	THAAD	-	THAAD FTT-18	IRBM intercept	-	-	-	PSCA	LP3C	-	-	100?	-	-
2017-S66	2457964.50	2017 Jul 30	THAAD	-	THAAD FET-1	MRBM intercept	-	-	-	PSCA	LP3C	-	-	100?	-	-
2019-S49	2458725.50	2019 Aug 30	THAAD	-	THAAD FTT-23	MRBM intercept	-	-	-	KMR	Meck	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1995-S34	2449829.13	1995 Apr 21 1504	THAAD	1	FT-01	0.000	SSDC	MS	-	-	Test	lmco.com	-	-
1995-S52	2449929.50	1995 Jul 31	THAAD	1	FT-02	0.000	SSDC	MS	-	-	Test	AWST950807-58	-	-
1995-S68	2450004.11	1995 Oct 13 1441?	THAAD	1	FT-03	0.000	SSDC	MS	-	-	Test	lmco.com	-	-
1995-S87	2450065.00	1995 Dec 13 1205	THAAD	1	FT-04	0.000	SSDC	MS	-	-	ABM Test	Wire/lmco.com	-	-
1996-S14	2450164.50	1996 Mar 22	THAAD	1	FT-05	0.000	SSDC	MS	-	-	ABM Test	AWST960401-28	-	-
1996-S42	2450279.98	1996 Jul 15 1131?	THAAD	1	FT-06	0.000	SSDC	MS	-	-	ABM Test	SN960722-16	-	-
1997-S24	2450514.03	1997 Mar 6 1241?	THAAD	1	FT-07	0.000	SSDC	MS	-	-	ABM Test	Wire	AWST970303-65	-
1998-A01	2450945.97	1998 May 12 1120	THAAD	1	FT-08	0.000	SMDC	MF	U	-	ABM Test	Wire	-	-
1999-S20	2451267.01	1999 Mar 29 1220	THAAD	1	FT-09	0.000	SMDC	MS	-	-	ABM Test	www.defenselink.mil	-	-
1999-S36	2451339.97	1999 Jun 10 1114	THAAD	1	FT-10	0.000	SMDC	MS	-	-	ABM Test	www.defenselink.mil	-	-
1999-S52	2451392.99	1999 Aug 2 1144	THAAD	1	FT-11	0.000	SMDC	MS	-	-	ABM Test	Wire	-	-
2005-S54	2453696.50	2005 Nov 22	THAAD	-	THAAD FTT-01	0.000	LMPCO/SMDC	MS	-	-	Test	Wire	-	-
2006-S21	2453866.50	2006 May 11	THAAD	-	THAAD FTT-02	0.000	LMPCO/SMDC	MS	-	-	Test	Wire	-	-
2006-M02	2453928.97	2006 Jul 12 1120	THAAD	-	THAAD FTT-03	0.000	LMPCO/SMDC	MS	-	-	ABM Test	Wire	-	-
2007-S07	2454127.72	2007 Jan 27 0520	THAAD	-	THAAD FTT-06	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2007-M02	2454196.78	2007 Apr 6 0645	THAAD	-	THAAD FTT-07	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2007-A05	2454277.50	2007 Jun 26	THAAD	-	THAAD FTT-05	0.000	SMDC	MS	-	-	Test	mda.mil	-	-
2007-S53	2454400.80	2007 Oct 27 0718?	THAAD	-	THAAD FTT-08	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2008-M02	2454643.60	2008 Jun 26 0222	THAAD	-	THAAD FTT-09	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2009-M05	2454908.52	2009 Mar 18 0030	THAAD	-	THAAD FTT-10a Salvo	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2009-A04	2454908.52	2009 Mar 18 0030	THAAD	-	THAAD FTT-10a Salvo	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2010-A03	2455376.82	2010 Jun 29 0737	THAAD	-	THAAD FTT-14	0.000	SMDC	MS	-	-	ABM Test	mda.mil	-	-
2011-S47	2455839.75	2011 Oct 5 0600?	THAAD	-	THAAD FTT-12	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2011-S48	2455839.75	2011 Oct 5 0600?	THAAD	-	THAAD FTT-12	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2012-S67	2456225.50	2012 Oct 25?	THAAD	-	THAAD FTI-01	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2013-S60	2456545.50	2013 Sep 10	THAAD	-	THAAD FTO-01	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2013-S61	2456545.50	2013 Sep 10	THAAD	-	THAAD FTO-01	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2015-S62	2457327.63	2015 Nov 1 0307?	THAAD	-	THAAD FTO-02 E2a	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2015-S64	2457327.63	2015 Nov 1 0312?	THAAD	-	THAAD FTO-02 E2a	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2017-S57	2457945.50	2017 Jul 11	THAAD	-	THAAD FTT-18	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2017-S66	2457964.50	2017 Jul 30	THAAD	-	THAAD FET-1	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-
2019-S49	2458725.50	2019 Aug 30	THAAD	-	THAAD FTT-23	0.000	MDATH	MS	-	-	ABM Test	www.mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1979-A61	2443983.50	1979 Apr 20	TKS VA SAS	-	TKS VA AS	Launch abort	TKS VA No. 103	Proton 300-02	-	NIIP-5	LC81/24	-	-	1	1	NIIP-5
1979-A62	2444101.50	1979 Aug 16	TKS VA SAS	-	-	Pad abort test	TKS VA No. 005	-	-	NIIP-5	LC51	-	-	1	1	NIIP-5
1979-A63	2444146.50	1979 Oct	TKS VA SAS	-	-	Pad abort test	TKS VA No. 005	-	-	NIIP-5	LC51	-	-	1	1	NIIP-5
1979-A64	2444146.50	1979 Q4	TKS VA SAS	-	-	Pad abort test	TKS VA No. 005	-	-	NIIP-5	LC51	-	-	1	1	NIIP-5
1980-A65	2444238.50	1980?	TKS VA SAS	-	-	Pad abort test	TKS VA No. 007	-	-	NIIP-5	LC51	-	-	1	1	NIIP-5
1980-A66	2444479.50	1980 Aug 28	TKS VA SAS	-	-	Pad abort test	TKS VA No. 007	-	-	NIIP-5	LC51	-	-	1	1	NIIP-5

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1979-A61	2443983.50	1979 Apr 20	TKS VA SAS	-	TKS VA AS	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-
1979-A62	2444101.50	1979 Aug 16	TKS VA SAS	-	-	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-
1979-A63	2444146.50	1979 Oct	TKS VA SAS	-	-	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-
1979-A64	2444146.50	1979 Q4	TKS VA SAS	-	-	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-
1980-A65	2444238.50	1980?	TKS VA SAS	-	-	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-
1980-A66	2444479.50	1980 Aug 28	TKS VA SAS	-	-	0.000	OKB52	AS	-	-	Escape tower	russianspaceweb	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-049	2460036.87	2023 Apr 2 0848:15	Tianlong-2	-	Y1	Jinta	-	-	-	JQ	-	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-049	2460036.87	2023 Apr 2 0848:15	Tianlong-2	-	Y1	0.108	TIANB	OS	-	C	Sat SSO O	tw/cnspaceflight	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-A06	2460491.82	2024 Jun 30 0743	Tianlong-3 S1	-	Y1	-	-	-	-	GONGYI	-	-	-	1?	1	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-A06	2460491.82	2024 Jun 30 0743	Tianlong-3 S1	-	Y1	0.000	TIANB	AF	AL	-	Static Fail	twitter/aj_fi	-	Accidental launch

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-M02	2447410.46	1988 Sep 5 2300	TR-1	-	TR-1-1	H-II 1/4 Scale	-	-	-	TNSC	T	-	-	85	-	-
1989-M01	2447553.46	1989 Jan 26 2300	TR-1	-	TR-1-2	H-II 1/4 Scale	-	-	-	TNSC	T	-	-	80	-	-
1989-M04	2447758.46	1989 Aug 19 2300	TR-1	-	TR-1-3	H-II 1/4 Scale	-	-	-	TNSC	T	-	-	85	-	-
1991-S148	2448515.46	1991 Sep 15 2300	TR-1A	-	TR-1A-1	-	-	-	-	TNSC	T	-	-	270	-	-
1992-S74	2448854.48	1992 Aug 19 2330	TR-1A	-	TR-1A-2	-	-	-	-	TNSC	T	-	-	290	-	-
1993-S61	2449247.46	1993 Sep 16 2300	TR-1A	-	TR-1A-3	-	-	-	-	TNSC	T	-	-	264	-	-
1995-S57	2449954.42	1995 Aug 24 2200	TR-1A	-	TR-1A-4	-	-	-	-	TNSC	T	-	-	270	-	-
1996-S56	2450351.42	1996 Sep 24 2200	TR-1A	-	TR-1A-5	-	-	-	-	TNSC	T	-	-	264?	-	-
1997-S63	2450716.52	1997 Sep 25 0030	TR-1A	-	TR-1A-6	-	-	-	-	TNSC	T	-	-	264?	-	-
1998-S63	2451136.46	1998 Nov 18 2300	TR-1A	-	TR-1A-7	-	-	-	-	TNSC	T	-	-	266	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-M02	2447410.46	1988 Sep 5 2300	TR-1	-	TR-1-1	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	SFLT30-421	-
1989-M01	2447553.46	1989 Jan 26 2300	TR-1	-	TR-1-2	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1989-M04	2447758.46	1989 Aug 19 2300	TR-1	-	TR-1-3	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	AWST890828-11	-
1991-S148	2448515.46	1991 Sep 15 2300	TR-1A	-	TR-1A-1	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	SRJ	-
1992-S74	2448854.48	1992 Aug 19 2330	TR-1A	-	TR-1A-2	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	SRJ	-
1993-S61	2449247.46	1993 Sep 16 2300	TR-1A	-	TR-1A-3	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	SRJ	-
1995-S57	2449954.42	1995 Aug 24 2200	TR-1A	-	TR-1A-4	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	SN950828-2	-
1996-S56	2450351.42	1996 Sep 24 2200	TR-1A	-	TR-1A-5	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	-	-
1997-S63	2450716.52	1997 Sep 25 0030	TR-1A	-	TR-1A-6	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	-	-
1998-S63	2451136.46	1998 Nov 18 2300	TR-1A	-	TR-1A-7	0.000	NASDA	SS	-	NASDA/	Micrograv	NASDA-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1975-S247	2442641.75	1975 Aug 17 0600	TT-210	-	TT-210-1F	-	-	-	-	TNSC	T	-	-	113	-	-
1976-S81	2442804.75	1976 Jan 27 0600	TT-210	-	TT-210-2F	-	-	-	-	TNSC	T	-	-	100?	-	-
1976-S298	2443045.56	1976 Sep 24 0130	TT-210	-	TT-210-3F	-	-	-	-	TNSC	T	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1975-S247	2442641.75	1975 Aug 17 0600	TT-210	-	TT-210-1F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1976-S81	2442804.75	1976 Jan 27 0600	TT-210	-	TT-210-2F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-
1976-S298	2443045.56	1976 Sep 24 0130	TT-210	-	TT-210-3F	0.000	NASDA	SS	-	NASDA/	Test	NASDA-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-A21	2460378.50	2024 Mar 9	Talon-A	-	TA-1	-	-	-	ROC	MHV	-	WTR	-	20?	-	-
2024-A22	2460664.50	2024 Dec 20	Talon-A	-	TA-2	MACH-TB	-	-	ROC	MHV	RW30	WTR	-	31	-	VS
2025-A01	2460758.50	2025 Mar 24	Talon-A	-	TA-2	MACH-TB	-	-	ROC	MHV	RW30?	WTR	-	31?	-	VS

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-A21	2460378.50	2024 Mar 9	Talon-A	-	TA-1	0.000	STRATO	AS	-	-	Test	Wire	-	-
2024-A22	2460664.50	2024 Dec 20	Talon-A	-	TA-2	0.000	STRATO	AS	-	-	Test	AWST250519-35	-	1718UT
2025-A01	2460758.50	2025 Mar 24	Talon-A	-	TA-2	0.000	STRATO	AS	-	-	Test	AWST250519-35	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A195	2434313.50	1952 Oct 28	Talos	-	-	X-SAM-N-6	-	-	-	WS	-	-	-	5?	-	-
1970-S688	2440880.50	1970 Oct 21	Super Chief I	-	-	Diagnostic Test	-	-	-	SNI	-	-	-	300?	-	-
1972-A159	2441651.50	1972 Dec	TATER	-	-	-	-	-	-	TTR	-	-	-	5	-	-
1973-A40	2441909.50	1973 Aug 15	TATER	-	-	-	-	-	-	TTR	-	-	-	5	-	-
1973-A65	2441989.13	1973 Nov 2 1506	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A76	2442095.21	1974 Feb 16 1658	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A64	2442118.45	1974 Mar 11 2251	TATER	-	-	SAMS/TATER	ABRES SAMS	-	-	WI	-	-	-	4	-	-
1974-A62	2442123.24	1974 Mar 16 1751	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A63	2442123.27	1974 Mar 16 1830	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-S139	2442126.29	1974 Mar 19 1902	Super Chief II	-	-	EUV Airglow	-	-	-	WI	-	-	-	300	-	-
1974-A65	2442136.44	1974 Mar 29 2235	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A66	2442136.46	1974 Mar 29 2305	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A67	2442136.59	1974 Mar 30 0206	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A73	2442146.25	1974 Apr 8 1754	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A74	2442146.26	1974 Apr 8 1809	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A68	2442170.36	1974 May 2 2035	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A69	2442175.11	1974 May 7 1445	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1974-A75	2442176.50	1974 May 9	TATER	-	Roll Test Eval	-	-	-	-	TTR	-	-	-	4	-	-
1974-A61	2442252.63	1974 Jul 24 0308	Super Chief II	-	NRL NB22.252	FUV Schmidt	-	-	-	WI	-	-	-	300?	-	-
1974-A77	2442302.50	1974 Sep 12	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1975-A02	2442421.62	1975 Jan 9 0300	TATER	-	Q3-7680	-	-	-	-	WI	-	-	-	4	-	-
1975-A01	2442421.63	1975 Jan 9 0301	TATER	-	Q3-7681	-	-	-	-	WI	-	-	-	4	-	-
1975-A11	2442479.38	1975 Mar 7 2105	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1975-A21	2442518.01	1975 Apr 15 1215	TATER	-	-	-	-	-	-	WI	-	-	-	4	-	-
1975-A33	2442566.50	1975 Jun 3	TATER	-	-	-	-	-	-	WI	-	-	-	5?	-	-
1975-A69	2442749.50	1975 Dec 3	TATER	-	-	-	-	-	-	WI	-	-	-	5?	-	-
1976-A86	2442791.50	1976 Jan 14	TATER	-	Sandia 487-602	SAMS/TATER 602	ABRES SAMS	-	-	WI	-	-	-	4?	-	-
1976-A85	2442847.04	1976 Mar 9 1303	TATER	-	Sandia 487-509	SAMS/TATER 509	ABRES SAMS-37	Sandia ABRES Materials	-	WI	-	-	-	5?	-	-
1976-A87	2442865.46	1976 Mar 27 2258	TATER	-	Sandia 487-516	SAMS/TATER 516	ABRES SAMS-38	-	-	WI	-	-	-	4?	-	-
1976-A88	2442894.37	1976 Apr 25 2047	TATER	-	Sandia 487-512	SAMS/TATER 512	ABRES SAMS-39	-	-	WI	-	-	-	4?	-	-
1976-S324	2443097.64	1976 Nov 15 0318:20	Talos Sergeant Hydac	-	DNA TE634.52-1	Ballistics	-	-	-	PF	-	-	-	500?	-	-
1976-S327	2443101.67	1976 Nov 19 0406:40	Talos Castor	-	DNA EX651.92-1	EXCEDE	-	-	-	PF	-	-	-	300?	-	-
1977-S254	2443415.15	1977 Sep 28 1533:16	Talos Castor	-	DNA IC733.03-1	SPIRE I	-	-	-	PF	-	-	-	275?	-	-
1978-S82	2443567.99	1978 Feb 28 1144:40	Talos Sergeant Hydac	-	DNA WS834.55-1	Ballistics	-	-	-	PF	-	-	-	500?	-	-
1978-S223	2443810.71	1978 Oct 29 0502	Talos Castor	-	DNA EX851.44-1	EXCEDE 1	-	-	-	PF	-	-	-	137	-	-
1979-S223	2444165.74	1979 Oct 19 0546:40	Talos Castor	-	GL A51.970	EXCEDE 2 (SPECTRAL)	-	-	-	PF	-	-	-	128	-	-
1983-S78	2445412.77	1983 Mar 19 0629:45	Talos Castor	-	GL A51.971	ELIAS	-	-	-	PF	-	-	-	305	-	-
1983-S213	2445685.17	1983 Dec 16 1600:06	Talos Sergeant Hydac	-	-	HAVE SLED II	-	-	-	PF	-	-	-	500?	-	-
1984-S48	2445726.16	1984 Jan 26 1552	Talos Sergeant Hydac	-	-	HAVE SLED II	-	-	-	PF	-	-	-	500?	-	-
1984-S53	2445733.15	1984 Feb 2 1536	Talos Sergeant Hydac	-	-	HAVE SLED II	-	-	-	PF	-	-	-	500?	-	-
1986-S37	2446528.90	1986 Apr 8 0942:25	Talos Castor	-	GL A51.378	SPIRIT I	-	-	-	PF	-	-	-	241	-	-
1987-S39	2446795.50	1987?	Talos Sergeant Hydac	-	-	HAVE JEEP VII-A	-	-	-	KMR	RN?	-	-	500?	-	-
1987-A25	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	MISTY PICTURE 1	-	-	-	WS	-	-	-	12	-	-
1987-A26	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	MISTY PICTURE 2	-	-	-	WS	-	-	-	12	-	-
1987-A27	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	MISTY PICTURE 3	-	-	-	WS	-	-	-	12	-	-
1987-A28	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	MISTY PICTURE 4	-	-	-	WS	-	-	-	12	-	-
1988-S65	2447227.50	1988 Mar 7	Talos Sergeant Hydac	-	-	HAVE JEEP VII-B	-	-	-	KMR	RN	-	-	500?	-	-
1988-S41	2447160.50	1988?	Talos Sergeant Hydac	-	-	HAVE JEEP VII-C	-	-	-	KMR	RN?	-	-	500?	-	-
1988-S125	2447435.26	1988 Sep 30 1810	Black Brant XII	-	NASA 12.41WT	BEARS	-	-	-	WI	-	-	-	950	-	-
1989-S111	2447866.31	1989 Dec 5 1921	Black Brant XII	-	NASA 12.42WT	-	-	-	-	WI	-	-	-	1459	-	-
1990-S34	2447922.39	1990 Jan 30 2122	HPB	-	GL A26.804	TM2-1	-	-	-	WI	-	-	-	422	-	-
1990-S35	2447924.00	1990 Feb 1 1207	Black Brant XI	-	NASA 39.002UE	SCEX III	-	-	-	PF	-	-	-	375	-	-
1990-S66	2447972.82	1990 Mar 22 0738:26	Black Brant XII	-	NASA 40.002UE	-	-	-	-	PF	-	-	-	1400	-	-
1990-S170	2448243.65	1990 Dec 18 0337:25	Starbird	-	-	LACE UVPI Target	-	-	-	CC	LC20	-	-	100?	-	-
1991-S60	2448293.81	1991 Feb 6 0729:21	LCLV	-	-	-	-	-	-	WI	-	-	-	510	-	-
1991-S67	2448299.88	1991 Feb 12 0911:54	Black Brant XII	-	NASA 40.001UE	TOPAZ 3	-	-	-	PF	-	-	-	1000	-	-
1991-S95	2448358.50	1991 Apr 12	HPB	-	Firebird 1	-	-	-	-	WI	-	-	-	400	-	-
1991-S144	2448503.74	1991 Sep 4 0550	Talos Castor	-	ZEST-1	Tungsten dust cloud	-	-	-	KAU	LC1	-	-	330	-	-
1991-S146	2448511.74	1991 Sep 12 0541	Talos Castor	-	ZEST-2	-	-	-	-	KAU	LC1	-	-	330	-	-
1992-S33	2448710.81	1992 Mar 29 0727	Black Brant XI	-	NASA 39.003UE	CHARGE-2B	-	-	-	PF	-	-	-	267	-	-
1992-S34	2448710.84	1992 Mar 29 0807:45	HPB	-	GL A26.780	SPIRIT-2	-	-	-	PF	-	-	-	326	-	-
1992-S38	2448727.88	1992 Apr 15 0909	HPB	-	Firebird 1B	-	-	-	-	WI	-	-	-	450	-	-
1993-A02	2449014.95	1993 Jan 27 1043:41	Black Brant XII	-	NASA 40.003UE	PHAZE	-	-	-	PF	-	-	-	10?	-	-
1993-S10	2449015.50	1993 Jan 28	HPB	-	TCMP 1B	-	-	-	-	WAKE	-	-	-	400?	-	-
1993-A03	2449029.50	1993 Feb 11	HPB	-	TCMP 1A	-	-	-	-	WAKE	-	-	-	2?	-	-
1993-S34	2449130.89	1993 May 23 0917	LCLV	-	Red Tigress 2A	-	-	-	-	CC	LC20	-	-	378	-	-
1993-S36	2449135.86	1993 May 28 0834	LCLV	-	Red Tigress 2B	-	-	-	-	CC	LC20	-	-	390	-	-
1993-S25	2449079.92	1993 Apr 2 1009	Black Brant XII	-	NASA 40.004UE	UCB Alaska '93	-	-	-	PF	-	-	-	1425	-	-
1994-S20	2449417.85	1994 Mar 6 0821	Black Brant XII	-	NASA 40.005UE	Auroral Turbulence 1	-	-	-	PF	-	-	-	455	-	-
1995-S06	2449742.77	1995 Jan 25 0624:48	Black Brant XII	-	NASA 40.006IE	SCIFER	-	-	-	AND	U3	-	-	1453	-	-
1995-S14	2449772.93	1995 Feb 24 1021:46	Black Brant XII	-	NASA 40.007UE	AMICIST	-	-	-	PF	-	-	-	900	-	-
1995-S74	2450028.78	1995 Nov 7 0638:18	Black Brant XII	-	NASA 40.009IE	OEDIPUS C	-	-	-	PF	-	-	-	824	-	-
1996-S62	2450372.95	1996 Oct 16 1041	LCLV	-	Red Tigress 3	-	-	-	-	WI	-	-	-	400?	-	-
1997-S10	2450489.72	1997 Feb 10 0517:15	Black Brant XII	-	NASA 40.010UE	PHAZE 2	-	-	-	PF	-	-	-	945	-	-
1997-S12	2450490.86	1997 Feb 11 0836:41	Black Brant XII	-	NASA 40.011UE	Auroral Turbulence 2	-	-	-	PF	-	-	-	546	-	-
1997-S13	2450492.38	1997 Feb 12 2100	LCLV	-	MSX CEP 1	MDT IV	-	-	-	WI	-	-	-	400?	-	-
1997-S20	2450502.92	1997 Feb 23 1006	LCLV	-	MSX CEP 2	MDT III	-	-	-	WI	-	-	-	400?	-	-
1998-S36	2450921.21	1998 Apr 17 1705	Talos Castor	-	-	Red Crow Flight Expt	-	-	-	KAU	-	-	-	100?	-	-
1999-S01	2451199.76	1999 Jan 21 0613:30	Black Brant XII	-	NASA 40.012IE	CAPER	-	-	-	AND	-	-	-	1360	-	-
1999-S02	2451201.08	1999 Jan 22 1357:03	Black Brant XII	-	NASA 40.013DP	North Star (APEX)	-	-	-	PF	-	-	-	364	-	-
2000-S07	2451599.82	2000 Feb 25 0745:10	Black Brant XII	-	NASA 40.008UE	-	-	-	-	PF	LC3	-	-	1170	-	-
2000-S12	2451600.89	2000 Feb 26 0919:11	Black Brant XII	-	NASA 40.015IE	GEODESIC	-	-	-	PF	LC4	-	-	990	-	-
2002-S02	2452288.85	2002 Jan 14 0823:05	Black Brant XII	-	NASA 40.014UE	SIERRA	-	-	-	PF	LC4	-	-	735	-	-
2002-S06	2452311.90	2002 Feb 6 0938:15	Black Brant XII	-	NASA 40.016UE	RACE	-	-	-	PF	-	-	-	922	-	-
2003-S21	2452789.90	2003 May 30 0935:00	Black Brant XI	-	NASA 39.005DP	RED DOG	-	-	-	WI	-	-	-	300?	-	-
2003-S22	2452792.89	2003 Jun 2 0928:00	Black Brant XI	-	NASA 39.006DP	RED DOG	-	-	-	WI	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2005-A01	2453435.94	2005 Mar 6 1031:17	Black Brant XII	-	NASA 40.017UE	CASCADES	-	-	-	PF	LC4	-	-	29	-	-
2006-S57	2454002.14	2006 Sep 23 1517:54	Black Brant XI	1	NASA 12.064GT	Igniter test	-	-	-	WI	-	-	-	300?	-	-
2007-S10	2454144.03	2007 Feb 12 1245:04	Black Brant XII	-	NASA 40.020UE	ROPA	-	-	-	PF	-	-	-	748	-	-
2007-S15	2454159.86	2007 Feb 28 0839:41	Black Brant XII	-	NASA 40.019UE	CHARM	-	-	-	PF	-	-	-	733	-	-
2007-S24	2454266.61	2007 Jun 15 0245	Talos Castor	-	-	HYCAUSE	-	-	-	WOO	-	-	-	454	-	-
2007-S70	2454444.88	2007 Dec 10 0900:00	Black Brant XII	-	NASA 40.018UE	TRICE High	-	-	-	AND	U3	-	-	1150	-	-
2007-S71	2454444.88	2007 Dec 10 0902:00	Black Brant XII	-	NASA 40.022UE	TRICE Low	-	-	-	AND	Athena	-	-	630	-	-
2008-S03	2454483.81	2008 Jan 18 0730:00	Black Brant XII	-	NASA 40.021UE	SCIFER-2	-	-	-	AND	-	-	-	1460	-	-
2008-S30	2454644.33	2008 Jun 26 1957	Black Brant XI	-	NASA 39.008DR	NGSP-1	-	-	-	WI	LA1	-	-	300?	-	-
2009-S18	2454910.96	2009 Mar 20 1104:01	Black Brant XII	-	NASA 40.023UE	CASCADES II	-	-	-	PF	LC3	-	-	564	-	-
2009-S45	2455094.49	2009 Sep 19 2346	Black Brant XI	-	NASA 39.009DR	CARE	-	-	-	WI	LA1	-	-	240	-	-
2009-S60	2455140.50	2009 Nov 5	Talos Castor	?	Aegis FTX-06E4 Tgt	ARAV-C	-	-	-	KAU	-	-	-	300?	-	-
2010-S19	2455243.91	2010 Feb 16 0949:11	Black Brant XII	-	NASA 40.025UE	CHARM II	-	-	-	PF	-	-	-	803	-	-
2010-S73	2455542.78	2010 Dec 12 0638:00	Black Brant XII	-	NASA 40.026UE	RENU	-	-	-	AND	-	-	-	340	-	-
2011-S35	2455629.50	2011 Mar 9	Talos Castor	?	Aegis FTM-16/SSTS	ARAV-C++	-	-	-	KAU	-	-	-	150?	-	-
2012-S39	2456131.96	2012 Jul 23 1101	Black Brant XI	-	NASA 39.011NR	IRVE-III	-	-	-	WI	LA2 ARC	-	-	458	-	-
2012-S53	2456192.96	2012 Sep 22 1100:00	Talos Terrier Oriole	-	NASA 12.075GT	TATEOR/Dummy Nihka	SRPO Diagnostic/APRA	-	-	WI	LA1 AML	-	-	269	-	-
2013-S07	2456330.85	2013 Feb 7 0821	Oriole IV	-	NASA 49.001UE	VISIONS	-	-	-	PF	LC4	-	-	754	-	-
2013-S35	2456428.64	2013 May 16 0325	Talos Castor	?	Aegis FTM-19 Tgt	ARAV-C	-	-	-	KAU	-	-	-	300?	-	-
2013-S38	2456449.63	2013 Jun 6 0305:00	Black Brant XII	-	NASA 40.030UG	CIBER-I F4	-	-	-	WI	LA1 AML	-	-	577	-	-
2013-S64	2456554.52	2013 Sep 19 0030	Talos Castor	?	Aegis FTM-21 Tgt	ARAV-C++	-	-	-	KAU	-	-	-	300?	-	-
2014-S78	2456985.84	2014 Nov 24 0805	Black Brant XIIA	-	NASA 52.001UE	C-REX	-	-	-	AND	U3	-	-	486	-	-
2015-S05	2457050.95	2015 Jan 28 1041	Oriole IV	-	NASA 49.002UE	ASSP	-	-	-	PF	LC4	-	-	590?	-	-
2015-S50	2457282.30	2015 Sep 16 1906	Black Brant XI	-	NASA 39.012DR	CARE-II	-	-	-	AND	U3	-	-	299	-	-
2015-S80	2457356.81	2015 Nov 30 0725	Oriole IV	-	NASA 49.003UE	CAPER	-	-	-	AND	-	-	-	100?	-	-
2015-S93	2457369.82	2015 Dec 13 0734	Black Brant XIIA	-	NASA 52.002UE	RENU 2	-	-	-	AND	-	-	-	447	-	-
2018-S73	2458460.85	2018 Dec 8 0826	Black Brant XIIA	-	NASA 52.003UE	TRICE-2 High	-	-	-	AND	-	-	-	1042	-	-
2018-S74	2458460.85	2018 Dec 8 0828	Black Brant XIIA	-	NASA 52.004UE	TRICE-2 Low	-	-	-	AND	-	-	-	756	-	-
2019-S01	2458487.89	2019 Jan 4 0927:00	Black Brant XIIA	-	NASA 52.005UE	CAPER-2	-	-	-	AND	-	-	-	774	-	-
2019-S15	2458579.43	2019 Apr 5 2214	Black Brant XIA	-	NASA 51.001UE	AZURE 1	-	-	-	AND	-	-	-	321	-	-
2019-S16	2458579.43	2019 Apr 5 2216	Black Brant XIA	-	NASA 51.002UE	AZURE 1	-	-	-	AND	-	-	-	325	-	-
2021-S24	2459351.53	2021 May 17 0044	Black Brant XIIA	-	NASA 52.007UE	KiNET-X	-	-	-	WI	LA1 AML	-	-	486	-	-
2021-S82	2459549.85	2021 Dec 1 0825	Oriole IV	-	NASA 49.004UE	C-REX 2	-	-	-	AND	U3	-	-	631	-	-
2023-S62	2460257.93	2023 Nov 9 1014:00	Black Brant XIIA	-	NASA 52.009AE	Beam-PIE	-	-	-	PF	LC4	-	-	450?	-	-
2025-S14	2460760.02	2025 Mar 25 1230	Black Brant XIIA	-	NASA 52.010UE	AWESOME 2	-	-	-	PF	LC4	-	-	250?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A195	2434313.50	1952 Oct 28	Talos	-	-	0.000	BUORD	MS	-	-	Test	APL-TD3-2-135	-	-
1970-S688	2440880.50	1970 Oct 21	Super Chief I	-	-	0.000	NRL	SU	-	NRL/Arritt	Test	TM-X-65777	-	-
1972-A159	2441651.50	1972 Dec	TATER	-	-	0.000	SAND	AS	-	-	Test	Ulrich	-	-
1973-A40	2441909.50	1973 Aug 15	TATER	-	-	0.000	SAND	AS	-	-	Test	SAMSO	-	-
1973-A65	2441989.13	1973 Nov 2 1506	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	SAMSO	-
1974-A76	2442095.21	1974 Feb 16 1658	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A64	2442118.45	1974 Mar 11 2251	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A62	2442123.24	1974 Mar 16 1751	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A63	2442123.27	1974 Mar 16 1830	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-S139	2442126.29	1974 Mar 19 1902	Super Chief II	-	-	0.000	NRL	SS	-	NRL/UMD/Opal	Aeron	FDC/Ulrich	SpaSciInst1,377	SSI has Mar 17
1974-A65	2442136.44	1974 Mar 29 2235	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A66	2442136.46	1974 Mar 29 2305	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A67	2442136.59	1974 Mar 30 0206	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A73	2442146.25	1974 Apr 8 1754	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A74	2442146.26	1974 Apr 8 1809	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A68	2442170.36	1974 May 2 2035	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A69	2442175.11	1974 May 7 1445	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1974-A75	2442176.50	1974 May 9	TATER	-	Roll Test Eval	0.000	SAND	AS	-	-	Test	RTE-FTR	-	-
1974-A61	2442252.63	1974 Jul 24 0308	Super Chief II	-	NRL NB22.252	0.000	NRL	SS	-	NRL/ADEL/Carruthers,Bib.	UV Astron/Aeron	Bibbo10	CR-141036	-
1974-A77	2442302.50	1974 Sep 12	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1975-A02	2442421.62	1975 Jan 9 0300	TATER	-	Q3-7680	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1975-A01	2442421.63	1975 Jan 9 0301	TATER	-	Q3-7681	0.000	SAND	AS	-	-	Test	FirstDayCover	-	-
1975-A11	2442479.38	1975 Mar 7 2105	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1975-A21	2442518.01	1975 Apr 15 1215	TATER	-	-	0.000	SAND	AS	-	-	Test	FDC/Ulrich	-	-
1975-A33	2442566.50	1975 Jun 3	TATER	-	-	0.000	SAND	AS	-	-	Test	AIAA-SR4	-	-
1975-A69	2442749.50	1975 Dec 3	TATER	-	-	0.000	SAND	AS	-	-	Test	AIAA-SR4	-	-
1976-A86	2442791.50	1976 Jan 14	TATER	-	Sandia 487-602	0.000	SAND	AS	-	DNA/	RV Test	DNA-4369F	-	-
1976-A85	2442847.04	1976 Mar 9 1303	TATER	-	Sandia 487-509	0.000	SAND	AS	-	DNA/	Test	FirstDayCover	DNA-4369F	-
1976-A87	2442865.46	1976 Mar 27 2258	TATER	-	Sandia 487-516	0.000	SAND	AS	-	DNA/	RV Test	FDC/Ulrich	DNA-4369F	-
1976-A88	2442894.37	1976 Apr 25 2047	TATER	-	Sandia 487-512	0.000	SAND	AS	-	DNA/	RV Test	FDC/Ulrich	DNA-4369F	-
1976-S324	2443097.64	1976 Nov 15 0318:20	Talos Sergeant Hydac	-	DNA TE634.52-1	0.000	DNA	SS	-	SDCO/Fisher	Test	WWW-PFRR	-	-
1976-S327	2443101.67	1976 Nov 19 0406:40	Talos Castor	-	DNA EX651.92-1	0.000	DNA	SS	-	DNA/AFCRL/Mitchell	Plasma	WWW-PFRR	-	-
1977-S254	2443415.15	1977 Sep 28 1533:16	Talos Castor	-	DNA IC733.03-1	0.000	DNA	SS	-	AFCRL/Ulwick	Aurora/IR Background	WWW-PFRR	SPIE124-118	-
1978-S82	2443567.99	1978 Feb 28 1144:40	Talos Sergeant Hydac	-	DNA WS834.55-1	0.000	DNA	SS	-	SDCO/Allen	Test	WWW-PFRR	-	-
1978-S223	2443810.71	1978 Oct 29 0502	Talos Castor	-	DNA EX851.44-1	0.000	AFGL2	SS	-	DNA/AFCRL/O'Neil	Active Plasma	WDCRF	AFCRL	-
1979-S223	2444165.74	1979 Oct 19 0546:40	Talos Castor	-	GL A51.970	0.000	AFGL2	SS	-	AFCRL/O'Neil	Active Plasma	WDCRF	AFCRL	-
1983-S78	2445412.77	1983 Mar 19 0629:45	Talos Castor	-	GL A51.971	0.000	AFGL2	SS	-	AFCRL/Nadile	Aeron/Auroral	WDCRF	AFCRL	-
1983-S213	2445685.17	1983 Dec 16 1600:06	Talos Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Schuster	Target?	WWW-PFRR	-	-
1984-S48	2445726.16	1984 Jan 26 1552	Talos Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Schuster	Target?	WWW-PFRR	-	-
1984-S53	2445733.15	1984 Feb 2 1536	Talos Sergeant Hydac	-	-	0.000	AFBMO	SS	-	MITLL/Schuster	Target?	WWW-PFRR	-	-
1986-S37	2446528.90	1986 Apr 8 0942:25	Talos Castor	-	GL A51.378	0.000	AFGL2	SS	-	AFCRL/Smith	Aeron	WDCRF	AFCRL	-
1987-S39	2446795.50	1987?	Talos Sergeant Hydac	-	-	0.000	AFBMD	SS	-	SAMSO/	Target	LGARDE-WWW	-	-
1987-A25	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	0.000	DNA	AS	-	DNA/	Test	AD-A283521	-	-
1987-A26	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	0.000	DNA	AS	-	DNA/	Test	AD-A283521	-	-
1987-A27	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	0.000	DNA	AS	-	DNA/	Test	AD-A283521	-	-
1987-A28	2446930.17	1987 May 14 1600	Talos Terrier	-	BRV Flythrough	0.000	DNA	AS	-	DNA/	Test	AD-A283521	-	-
1988-S65	2447227.50	1988 Mar 7	Talos Sergeant Hydac	-	-	0.000	AFBMD	SF	U	SAMSO/	Target	SAMSO	-	-
1988-S41	2447160.50	1988?	Talos Sergeant Hydac	-	-	0.000	AFBMD	SS	-	SAMSO/	Target	LGARDE-WWW	-	-
1988-S125	2447435.26	1988 Sep 30 1810	Black Brant XII	-	NASA 12.41WT	0.000	GSFC	SS	-	WFF/Flowers	Test/Aeron	WISR	-	-
1989-S111	2447866.31	1989 Dec 5 1921	Black Brant XII	-	NASA 12.42WT	0.000	GSFC	SS	-	WFF/UCB/Flowers,Charka	Test/Aeron	WISR	Desind	-
1990-S34	2447922.39	1990 Jan 30 2122	HPB	-	GL A26.804	0.000	OSC	SS	-	AFCRL/McKenna	Test	WDCRF	AFCRL2	-
1990-S35	2447924.00	1990 Feb 1 1207	Black Brant XI	-	NASA 39.002UE	0.000	GSFC	SS	-	UMN/P.Kellogg	Active Plasma	IEEE.TrNSci38,1622	WISR	-
1990-S66	2447972.82	1990 Mar 22 0738:26	Black Brant XII	-	NASA 40.002UE	0.000	GSFC	SS	-	UCB/Carlson	Auroral?	WISR	-	-
1990-S170	2448243.65	1990 Dec 18 0337:25	Starbird	-	-	0.000	OSC	SS	-	NRL/	Target	NRL/FR/8105-93-9546	-	-
1991-S60	2448293.81	1991 Feb 6 0729:21	LCLV	-	-	0.000	OSC	SS	-	NRL/Smathers?	Target/Active Pl.	SN910211-2	NRL-FR-8121	-
1991-S67	2448299.88	1991 Feb 12 0911:54	Black Brant XII	-	NASA 40.001UE	0.000	GSFC	SS	-	CORN/Kintner	Active Plasma	WISR	-	-
1991-S95	2448358.50	1991 Apr 12	HPB	-	Firebird 1	0.000	OSC	SS	-	SDIO/MITLL/	Target/Decoys	LincolnLabJ12,383	-	-
1991-S144	2448503.74	1991 Sep 4 0550	Talos Castor	-	ZEST-1	0.000	SAND	SS	-	LANL/	Target/Release	AWST910909-29	-	-
1991-S146	2448511.74	1991 Sep 12 0541	Talos Castor	-	ZEST-2	0.000	SAND	SS	-	LANL/	Target/Release	AWST910916-17	-	-
1992-S33	2448710.81	1992 Mar 29 0727	Black Brant XI	-	NASA 39.003UE	0.000	GSFC	SS	-	USU/Raitt	Ionos/Tether	WISR	-	-
1992-S34	2448710.84	1992 Mar 29 0807:45	HPB	-	GL A26.780	0.000	OSC/SDIO	SS	-	AFGL/USU/Baker	IR Background	www.pfrr.alaska.edu	-	-
1992-S38	2448727.88	1992 Apr 15 0909	HPB	-	Firebird 1B	0.000	OSC	SS	-	SDIO/MITLL/	Target/Decoys	SN920427	LincolnLabJ12,383	-
1993-A02	2449014.95	1993 Jan 27 1043:41	Black Brant XII	-	NASA 40.003UE	0.000	GSFC	SF	U	UNH/Arnoldy	Ionos	WISR	-	-
1993-S10	2449015.50	1993 Jan 28	HPB	-	TCMP 1B	0.000	OSC	SS	-	MITLL/	Reentry Test	AWST930301-60	[Jan 23?]	-
1993-A03	2449029.50	1993 Feb 11	HPB	-	TCMP 1A	0.000	OSC	SF	U	MITLL/	Reentry Test	AWST930301-60	-	-
1993-S34	2449130.89	1993 May 23 0917	LCLV	-	Red Tigress 2A	0.000	BMDO	SS	-	BMDO/NAIC/	Target	SN930531-9	Powell	-
1993-S36	2449135.86	1993 May 28 0834	LCLV	-	Red Tigress 2B	0.000	BMDO	SS	-	BMDO/NAIC/	Target	SN930531-9	Powell	-
1993-S25	2449079.92	1993 Apr 2 1009	Black Brant XII	-	NASA 40.004UE	0.000	GSFC	SS	-	UCB/Carlson	Ionos	WISR	-	-
1994-S20	2449417.85	1994 Mar 6 0821	Black Brant XII	-	NASA 40.005UE	0.000	GSFC	SS	-	UNH/Torbert	Ionos	WWW-PFRR	-	-
1995-S06	2449742.77	1995 Jan 25 0624:48	Black Brant XII	-	NASA 40.006IE	0.000	GSFC	SS	-	CORN/Kintner	Ionos	WISR	-	-
1995-S14	2449772.93	1995 Feb 24 1021:46	Black Brant XII	-	NASA 40.007UE	0.000	GSFC	SS	-	UNH/Arnoldy	Auroral	WWW-PFRR	Chesser	-
1995-S74	2450028.78	1995 Nov 7 0638:18	Black Brant XII	-	NASA 40.009IE	0.000	CSA/NASA	SS	-	CRC/James	Ionos/Tether	WWW-WFF	-	-
1996-S62	2450372.95	1996 Oct 16 1041	LCLV	-	Red Tigress 3	0.000	BMDO	SS	-	BMDO/NAIC/	Target	SN961028-33/Wire	scies.plh.af.mil	-
1997-S10	2450489.72	1997 Feb 10 0517:15	Black Brant XII	-	NASA 40.010UE	0.000	GSFC	SS	-	UNH/Arnoldy	Ionos	WWW-WFF	www.unh.edu	-
1997-S12	2450490.86	1997 Feb 11 0836:41	Black Brant XII	-	NASA 40.011UE	0.000	GSFC	SS	-	UNH/Torbert	Ionos	WWW-WFF	ESA-SP437	-
1997-S13	2450492.38	1997 Feb 12 2100	LCLV	-	MSX CEP 1	0.000	OSC	SS	-	BMDO/NAIC/	Target	APL-PR970305	-	-
1997-S20	2450502.92	1997 Feb 23 1006	LCLV	-	MSX CEP 2	0.000	OSC	SS	-	BMDO/NAIC/	Target	APL-PR970305	-	-
1998-S36	2450921.21	1998 Apr 17 1705	Talos Castor	-	-	0.000	SAND/BMDO	SS	-	SAND/	Tech	www.sandia.gov	-	-
1999-S01	2451199.76	1999 Jan 21 0613:30	Black Brant XII	-	NASA 40.012IE	0.000	GSFC	SS	-	CORN/Kintner	Ionos	WWW-WFF	AND-WWW	-
1999-S02	2451201.08	1999 Jan 22 1357:03	Black Brant XII	-	NASA 40.013DP	0.000	GSFC	SS	-	APL/IDG/Meng	Active plasma	JScR41,481	-	-
2000-S07	2451599.82	2000 Feb 25 0745:10	Black Brant XII	-	NASA 40.008UE	0.000	GSFC	SS	-	UCB/Carlson	Auroral	WWW-WFF	-	-
2000-S12	2451600.89	2000 Feb 26 0919:11	Black Brant XII	-	NASA 40.015IE	0.000	CSA	SS	-	CALG/Knudsen	Ionos	Wire	-	-
2002-S02	2452288.85	2002 Jan 14 0823:05	Black Brant XII	-	NASA 40.014UE	0.000	GSFC	SS	-	CORN/Kintner	Ionos/Auroral	www.wff.nasa.gov	sierra.ece.cornell	-
2002-S06	2452311.90	2002 Feb 6 0938:15	Black Brant XII	-	NASA 40.016UE	0.000	GSFC	SS	-	UIA/DART/Kletzing	Ionos	www.wff.nasa.gov	-	-
2003-S21	2452789.90	2003 May 30 0935:00	Black Brant XI	-	NASA 39.005DP	0.000	NASA/MITLL	SS	-	MITLL/	Target	www.wff.nasa.gov	-	-
2003-S22	2452792.89	2003 Jun 2 0928:00	Black Brant XI	-	NASA 39.006DP	0.000	NASA/MITLL	SS	-	MITLL/	Target	www.wff.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2005-A01	2453435.94	2005 Mar 6 1031:17	Black Brant XII	-	NASA 40.017UE	0.000	GSFC	SF	U	DART/Lynch	Auroral	Wire	-	-
2006-S57	2454002.14	2006 Sep 23 1517:54	Black Brant XI	1	NASA 12.064GT	0.000	GSFC	SS	-	GSFC/Hickman	Test	www.wff.nasa.gov	ESA-SP-647	-
2007-S10	2454144.03	2007 Feb 12 1245:04	Black Brant XII	-	NASA 40.020UE	0.000	GSFC	SS	-	DART/Lynch,Lessard	Auroral	www.wff.nasa.gov	-	-
2007-S15	2454159.86	2007 Feb 28 0839:41	Black Brant XII	-	NASA 40.019UE	0.000	GSFC	SS	-	DART/Labelle	Auroral	www.wff.nasa.gov	-	-
2007-S24	2454266.61	2007 Jun 15 0245	Talos Castor	-	-	0.000	DSTO	SS	-	DSTO/Harch	Test	Wire	AIAA2008-2580	-
2007-S70	2454444.88	2007 Dec 10 0900:00	Black Brant XII	-	NASA 40.018UE	0.000	GSFC	SS	-	UIA/Kletzing	Plasma	www.wff.nasa.gov	-	-
2007-S71	2454444.88	2007 Dec 10 0902:00	Black Brant XII	-	NASA 40.022UE	0.000	GSFC	SS	-	UIA/Kletzing	Plasma	www.wff.nasa.gov	-	-
2008-S03	2454483.81	2008 Jan 18 0730:00	Black Brant XII	-	NASA 40.021UE	0.000	GSFC	SS	-	CORN/Kintner	Plasma	www.rocketrange.no	-	-
2008-S30	2454644.33	2008 Jun 26 1957	Black Brant XI	-	NASA 39.008DR	0.000	GSFC	SS	-	MDA/Leclair	Sensor test/Decoys	www.wff.nasa.gov	-	-
2009-S18	2454910.96	2009 Mar 20 1104:01	Black Brant XII	-	NASA 40.023UE	0.000	GSFC	SS	-	DART/Lynch	Auroral	www.uaf.edu AKDT	-	-
2009-S45	2455094.49	2009 Sep 19 2346	Black Brant XI	-	NASA 39.009DR	0.000	GSFC	SS	-	NRL/Bernhardt	Aeron	www.wff.nasa.gov	-	-
2009-S60	2455140.50	2009 Nov 5	Talos Castor	?	Aegis FTX-06E4 Tgt	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2010-S19	2455243.91	2010 Feb 16 0949:11	Black Brant XII	-	NASA 40.025UE	0.000	GSFC	SS	-	DART/Labelle	Auroral	www.wff.nasa.gov	-	-
2010-S73	2455542.78	2010 Dec 12 0638:00	Black Brant XII	-	NASA 40.026UE	0.000	GSFC	SS	-	UNH/Lessard	Auroral	www.rocketrange.no	-	-
2011-S35	2455629.50	2011 Mar 9	Talos Castor	?	Aegis FTM-16/SSTS	0.000	MDA	MS	-	-	Target	spacedaily.com	-	-
2012-S39	2456131.96	2012 Jul 23 1101	Black Brant XI	-	NASA 39.011NR	0.000	GSFC	SS	-	LARCN/Cheatwood	Reentry test	www.wff.nasa.gov	-	-
2012-S53	2456192.96	2012 Sep 22 1100:00	Talos Terrier Oriole	-	NASA 12.075GT	0.000	GSFC	SS	-	WFF/USAF/Brodell	Test	www.wff.nasa.gov	-	-
2013-S07	2456330.85	2013 Feb 7 0821	Oriole IV	-	NASA 49.001UE	0.000	GSFC	SS	-	GSFC/Rowland	Auroral	FB/heliophysics	-	-
2013-S35	2456428.64	2013 May 16 0325	Talos Castor	?	Aegis FTM-19 Tgt	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2013-S38	2456449.63	2013 Jun 6 0305:00	Black Brant XII	-	NASA 40.030UG	0.000	GSFC	SS	-	CIT/Bock	IR Astron	www.wff.nasa.gov	-	-
2013-S64	2456554.52	2013 Sep 19 0030	Talos Castor	?	Aegis FTM-21 Tgt	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2014-S78	2456985.84	2014 Nov 24 0805	Black Brant XIIA	-	NASA 52.001UE	0.000	GSFC	SS	-	UAF/Conde	Plasma	www.wff.nasa.gov	-	-
2015-S05	2457050.95	2015 Jan 28 1041	Oriole IV	-	NASA 49.002UE	0.000	GSFC	SS	-	USU/Swenson	Auroral	www.wff.nasa.gov	-	-
2015-S50	2457282.30	2015 Sep 16 1906	Black Brant XI	-	NASA 39.012DR	0.000	GSFC	SS	-	NRL/Bernhardt	Ionos/Cal	andoyaspace.no	-	655 kg
2015-S80	2457356.81	2015 Nov 30 0725	Oriole IV	-	NASA 49.003UE	0.000	GSFC	SF	U	DART/Empson	Auroral	www.wff.nasa.gov	-	-
2015-S93	2457369.82	2015 Dec 13 0734	Black Brant XIIA	-	NASA 52.002UE	0.000	GSFC	SS	-	UNH/Lessard	Auroral	www.rocketrange.no	-	-
2018-S73	2458460.85	2018 Dec 8 0826	Black Brant XIIA	-	NASA 52.003UE	0.000	GSFC	SS	-	UIA/Kletzing	Plasma	www.wff.nasa.gov	-	-
2018-S74	2458460.85	2018 Dec 8 0828	Black Brant XIIA	-	NASA 52.004UE	0.000	GSFC	SS	-	UIA/Kletzing	Plasma	www.wff.nasa.gov	-	-
2019-S01	2458487.89	2019 Jan 4 0927:00	Black Brant XIIA	-	NASA 52.005UE	0.000	GSFC	SS	-	DART/Labelle	Plasma	www.wff.nasa.gov	-	-
2019-S15	2458579.43	2019 Apr 5 2214	Black Brant XIA	-	NASA 51.001UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	twitter/andoyaspace	-	-
2019-S16	2458579.43	2019 Apr 5 2216	Black Brant XIA	-	NASA 51.002UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	twitter/andoyaspace	-	-
2021-S24	2459351.53	2021 May 17 0044	Black Brant XIIA	-	NASA 52.007UE	0.000	GSFC	SS	-	UAF/Delamere	Plasma	www.wff.nasa.gov	-	-
2021-S82	2459549.85	2021 Dec 1 0825	Oriole IV	-	NASA 49.004UE	0.000	GSFC	SS	-	UAF/Conde	Plasma	www.wff.nasa.gov	-	-
2023-S62	2460257.93	2023 Nov 9 1014:00	Black Brant XIIA	-	NASA 52.009AE	0.000	GSFC	SS	-	LANL/Reeves	Auroral	facebook.com	-	-
2025-S14	2460760.02	2025 Mar 25 1230	Black Brant XIIA	-	NASA 52.010UE	0.000	GSFC	SS	-	UAF/Conde	Auroral	www.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A168	2439850.50	1967 Dec 26	Temp-2S	-	IRS	15Zh42 Br-1	-	-	-	GTsP-4	LC231	-	-	1	-	GTsP-4
1968-A146	2439855.50	1968?	Temp-2S	-	IRS	15Zh42 Br-2	-	-	-	GTsP-4	LC231	-	-	1	-	GTsP-4
1968-A147	2439855.50	1968?	Temp-2S	-	IRS	15Zh42 Br-3	-	-	-	GTsP-4	LC231	-	-	1	-	GTsP-4
1968-A148	2439855.50	1968?	Temp-2S	-	IRS	15Zh42 Br-4	-	-	-	GTsP-4	LC231	-	-	1	-	GTsP-4
1968-A149	2439855.50	1968?	Temp-2S	-	IRS	15Zh42 Br-5	-	-	-	GTsP-4	LC231	-	-	1	-	GTsP-4
1972-S111	2441391.24	1972 Mar 14 1740	Temp-2S	-	44654-732-2L	15Zh42 LKI-1	MGCh 15F421	Mobile PU	-	NIIP-53	LC157	-	-	1000?	-	Kura
1972-S143	2441426.23	1972 Apr 18 1732	Temp-2S	-	1L	15Zh42 LKI-2	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	0?	-	(Kura)
1972-S226	2441471.00	1972 Jun 2 1200	Temp-2S	-	3L	15Zh42 LKI-3	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	0?	-	(Kura)
1972-S496	2441532.67	1972 Aug 3 0400	Temp-2S	-	4L	15Zh42 LKI-4	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1?	-	(Kura)
1972-S299	2441589.32	1972 Sep 28 1940	Temp-2S	-	35444-30-113-5L	15Zh42 LKI-5	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1973-S163	2441825.28	1973 May 22 1845	Temp-2S	-	64553-51-483-6L	15Zh42 LKI-6	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1973-S191	2441842.06	1973 Jun 8 1330	Temp-2S	-	64553-21-731-7L	15Zh42 LKI-7	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1973-S217	2441868.42	1973 Jul 4 2200	Temp-2S	-	64513-51-481-8L	15Zh42 LKI-8	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1973-S260	2441924.05	1973 Aug 29 1310	Temp-2S	-	64553-51-484-9L	15Zh42 LKI-9	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1973-S494	2441955.10	1973 Sep 29 1427	Temp-2S	-	10L	15Zh42 LKI-10	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	20?	-	(Kura)
1973-S495	2441990.12	1973 Nov 3 1450	Temp-2S	-	11L	15Zh42 LKI-11	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	20?	-	(Kura)
1973-S496	2442039.42	1973 Dec 22 2203	Temp-2S	-	64529-677-12L	15Zh42 LKI-12	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S582	2442078.22	1974 Jan 30 1715	Temp-2S	-	13L	15Zh42 LKI-13	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	20?	-	(Kura)
1974-S84	2442107.46	1974 Feb 28 2300	Temp-2S	-	64549-679-14L	15Zh42 LKI-14	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S454	2442175.36	1974 May 7 2040	Temp-2S	-	64549-682-15L	15Zh42 LKI-15	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S455	2442206.35	1974 Jun 7 2030	Temp-2S	-	64549-678-16L	15Zh42 LKI-16	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S456	2442217.38	1974 Jun 18 2110	Temp-2S	-	64511-642-17L	15Zh42 LKI-17	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S457	2442224.36	1974 Jun 25 2040	Temp-2S	-	64549-684-18L	15Zh42 LKI-18	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S453	2442227.33	1974 Jun 28 1955	Temp-2S	-	19L	15Zh42 LKI-19	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	0?	-	(Kura)
1974-S458	2442252.47	1974 Jul 23 2310	Temp-2S	-	64511-644-20L	15Zh42 LKI-20	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S459	2442287.33	1974 Aug 27 2000	Temp-2S	-	64553-51-482-21L	15Zh42 LKI-21	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S460	2442290.31	1974 Aug 30 1930	Temp-2S	-	64511-648-22L	15Zh42 LKI-22	MGCh 15F421	-	-	NIIP-53	LC158	-	-	1000?	-	Kura
1974-S322	2442311.50	1974 Sep 21	Pioner	-	-	15Zh45 LKI-1	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S548	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-2	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S549	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-3	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S550	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-4	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S551	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-5	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S552	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-6	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S553	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-7	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S554	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-8	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S555	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-9	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S557	2442290.50	1974 Sep?	Pioner	-	-	15Zh45 LKI-10	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S461	2442320.93	1974 Sep 30 1020	Temp-2S	-	23L	15Zh42 LKI-23	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	0?	-	(Kura)
1974-S540	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-11	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S541	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-12	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S542	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-13	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S543	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-14	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S544	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-15	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S545	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-16	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S546	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-17	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S547	2442320.50	1974 Oct?	Pioner	-	-	15Zh45 LKI-18	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1974-S462	2442356.31	1974 Nov 4 1927	Temp-2S	-	64549-681-26L	15Zh42 LKI-24	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1974-S463	2442367.36	1974 Nov 15 2040	Temp-2S	-	64511-651-25L	15Zh42 LKI-25	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1974-S464	2442381.36	1974 Nov 29 2045	Temp-2S	-	64511-652-30L	15Zh42 LKI-26	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1974-S495	2442381.37	1974 Nov 29 2046	Temp-2S	-	64521-61-863-24L	15Zh42 LKI-27	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1974-S410	2442394.50	1974 Dec 13 0000	Temp-2S	-	64511-646-28L	15Zh42 LKI-28	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Pacific
1974-S411	2442394.62	1974 Dec 13 0300	Temp-2S	-	64511-645-29L	15Zh42 LKI-29	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Pacific
1974-S452	2442410.75	1974 Dec 29 0600	Temp-2S	-	64549-680-27L	15Zh42 LKI-30	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Khalmer-Yu
1975-S19	2442412.50	1975	Pioner	-	-	15Zh45 LKI K-1/19	-	-	-	KANSK	-	-	-	500?	-	Kura
1975-S405	2442412.50	1975	Pioner	-	-	15Zh45 LKI K-2/20	-	-	-	KANSK	-	-	-	500?	-	Kura
1975-S20	2442517.27	1975 Apr 14 1830	Temp-2S	-	64521-61-875-35L	15Zh42 UBP-1	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1975-S21	2442518.30	1975 Apr 15 1915	Temp-2S	-	64536-51-853-31L	15Zh42 UBP-2	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1975-S372	2442552.31	1975 May 19 1930	Temp-2S	-	64521-61-869-34L	15Zh42 UBP-3	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1975-S373	2442650.50	1975 Aug 26	Temp-2S	-	64521-61-874-32L	15Zh42 UBP-4	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1976-S432	2442786.50	1976 Jan 9	Pioner	-	-	15Zh45 LKI-21	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S53	2442787.50	1976 Jan 10	Pioner	-	-	15Zh45 LKI K-3	-	-	-	KANSK	-	-	-	500?	-	Kura
1976-S431	2442787.50	1976 Jan 10	Pioner	-	-	15Zh45 LKI K-4	-	-	-	KANSK	-	-	-	500?	-	Kura
1976-S503	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	15Zh45K LKI-1	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S504	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	15Zh45K LKI-2	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S505	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	15Zh45K LKI-3	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S22	2442896.50	1976 Apr 28	Temp-2S	-	64536-51-859-33L	15Zh42 UBP-5	MGCh 15F421	-	-	NIIP-53	LC158?	-	-	1000?	-	Kura
1976-S433	2442947.50	1976 Jun 18	Pioner	-	-	15Zh45 33 RD UBP-1	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S435	2442959.50	1976 Q3	Pioner	-	-	15Zh45 LKI M-1	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S436	2443051.50	1976 Q4	Pioner	-	-	15Zh45 LKI M-2	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1976-S434	2443124.50	1976 Dec 12	Pioner	-	-	15Zh45 33 RD UBP-2	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1977-S449	2443143.50	1977 Q1	Pioner	-	-	15Zh45 LKI M-3	-	-	-	GTsP-4	-	-	-	500?	-	-
1977-S471	2443352.50	1977 Jul 28	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1977-S450	2443401.50	1977 Sep 15	Pioner	-	-	15Zh45 39 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1977-S469	2443459.50	1977 Nov 12	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1978-S328	2443559.07	1978 Feb 19 1345	Pioner	-	-	15Zh45 32 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1978-S329	2443616.50	1978 Apr 18	Pioner	-	-	15Zh45 42 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1978-S330	2443839.50	1978 Nov 27	Pioner	-	-	15Zh45 8 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S301	2444024.50	1979 May 31	Pioner	-	-	15Zh45 8 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S271	2444095.50	1979 Aug 10	Pioner UTTKh	-	U01	15Zh53 LKI-1	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S272	2444054.50	1979 Q3?	Pioner UTTKh	-	U02	15Zh53 LKI-2	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S273	2444054.50	1979 Q3?	Pioner UTTKh	-	U03	15Zh53 LKI-3	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S274	2444146.50	1979 Q4?	Pioner UTTKh	-	U04	15Zh53 LKI-4	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S275	2444146.50	1979 Q4?	Pioner UTTKh	-	U05	15Zh53 LKI-5	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1979-S302	2444116.50	1979 Sep	Pioner	-	-	15Zh45 33 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S254	2444238.50	1980?	Pioner UTTKh	-	U06	15Zh53 LKI-6	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S255	2444238.50	1980?	Pioner UTTKh	-	U07	15Zh53 LKI-7	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1980-S256	2444238.50	1980?	Pioner UTTKh	-	U08	15Zh53 LKI-8	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S257	2444238.50	1980?	Pioner UTTKh	-	U09	15Zh53 LKI-9	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S281	2444319.50	1980 Mar 21	Pioner	-	-	15Zh45 8 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S282	2444347.50	1980 Apr 18	Pioner	-	-	15Zh45 42 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S283	2444383.50	1980 May 24	Pioner	-	-	15Zh45 39 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S284	2444450.50	1980 Jul 30	Pioner	-	-	15Zh45 42 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S285	2444543.50	1980 Oct 31	Pioner	-	-	15Zh45 8 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S286	2444543.50	1980 Nov	Pioner	-	-	15Zh45 33 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1980-S258	2444590.50	1980 Dec 17	Pioner UTTKh	-	U10	15Zh53 LKI-10	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1981-S253	2444724.50	1981 May	Pioner	-	-	15Zh45 8 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1981-S260	2444767.50	1981 Jun 12	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453 Vostok-81	-	DROV	-	-	-	500?	-	Kura
1981-S261	2444767.50	1981 Jun 12	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453 Vostok-81	-	DROV	-	-	-	500?	-	Kura
1981-A40	2444767.50	1981 Jun 12	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453 Vostok-81	-	DROV	-	-	-	40?	-	(Kura)
1981-S254	2444843.50	1981 Aug 27	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1982-S303	2445028.50	1982 Mar	Pioner UTTKh	-	-	15Zh53 32 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	-
1982-S279	2445028.50	1982 Mar	Pioner UTTKh	-	-	15Zh53 32 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	-
1982-S280	2445058.50	1982 Mar 30	Pioner UTTKh	-	-	15Zh53 32 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1982-S299	2445134.50	1982 Jun 14	Pioner UTTKh	-	-	15Zh53 UBP	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1982-S125	2445138.62	1982 Jun 18 0300	Pioner	-	-	ABM Target	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1982-S278	2445257.21	1982 Oct 14 1700	Pioner	-	-	15Zh45 35 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S332	2445334.50	1983	Pioner	-	-	15Zh56 LKI-1	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S333	2445334.50	1983	Pioner	-	-	15Zh56 LKI-2	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S334	2445334.50	1983	Pioner	-	-	15Zh56 LKI-3	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S335	2445334.50	1983	Pioner	-	-	15Zh56 LKI-4	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S336	2445334.50	1983	Pioner	-	-	15Zh56 LKI-5	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S337	2445334.50	1983	Pioner	-	-	15Zh56 LKI-6	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S304	2445408.21	1983 Mar 14 1700	Pioner	-	-	15Zh45 35 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S305	2445415.21	1983 Mar 21 1700	Pioner	-	-	15Zh45 35 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S330	2445424.50	1983 Apr?	Pioner	-	-	15Zh56 LKI-7	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S331	2445424.50	1983 Apr?	Pioner	-	-	15Zh56 LKI-8	GCh 15B216	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S306	2445515.50	1983 Jul	Pioner UTTKh	-	-	15Zh53 29 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S307	2445546.50	1983 Aug	Pioner UTTKh	-	-	15Zh53 29 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S301	2445666.50	1983 Nov 28	Pioner	-	-	15Zh45 4 RD UBP-12	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1983-S308	2445668.50	1983 Nov 30	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S302	2445675.50	1983 Dec 7	Pioner	-	-	15Zh45 4 RD UBP-13	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1983-S303	2445677.50	1983 Dec 9	Pioner	-	-	15Zh45 4 RD UBP-14	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S263	2445790.50	1984 Apr	Pioner	-	-	15Zh45 4 RD Salvo Test 2	S-300 Target	-	-	DROV	-	-	-	500?	-	-
1984-S253	2445797.50	1984 Apr 7	Pioner	-	-	15Zh45 4 RD UBP-18	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S254	2445799.50	1984 Apr 9	Pioner	-	-	15Zh45 4 RD UBP-19	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S255	2445801.50	1984 Apr 11	Pioner	-	-	15Zh45 4 RD UBP-20	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S256	2445803.50	1984 Apr 13	Pioner	-	-	15Zh45 4 RD UBP-21	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S257	2445803.50	1984 Apr 13	Pioner	-	-	15Zh45 4 RD UBP-22	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S258	2445803.50	1984 Apr 13	Pioner	-	-	15Zh45 4 RD UBP-23	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S259	2445803.50	1984 Apr 13	Pioner	-	-	15Zh45 4 RD UBP-24	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S272	2445813.50	1984 Apr 23	Pioner UTTKh	-	-	15Zh53 29 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S275	2445817.50	1984 Apr 27	Pioner	-	-	15Zh56 LKI-1	Gorn	-	-	GTsP-4	-	-	-	500?	-	-
1984-S273	2445881.50	1984 Jul	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	RGCh	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S270	2445881.50	1984 Jul	Pioner	-	-	15Zh45 31 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S309	2445950.50	1984 Sep 7	Pioner	-	-	15Zh45 4 RD UBP	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S310	2445950.50	1984 Sep 7	Pioner	-	-	15Zh45 4 RD UBP	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S308	2445953.50	1984 Sep 10	Pioner	-	-	15Zh45 4 RD UBP	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	NovZem
1984-S297	2445970.50	1984 Sep 27	Pioner-3	-	-	15Zh57 LKI-1	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S298	2445943.50	1984 Sep?	Pioner-3	-	-	15Zh57 LKI-2	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S299	2445943.50	1984 Sep?	Pioner-3	-	-	15Zh57 LKI-3	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S300	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-4	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S301	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-5	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S302	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-6	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S303	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-7	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S304	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-8	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S305	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-9	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S306	2445973.50	1984 Oct?	Pioner-3	-	-	15Zh57 LKI-10	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S307	2445973.50	1984 Oct	Pioner-3	-	-	15Zh57 LKI-11	3 BB	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S274	2445998.50	1984 Oct 25	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1984-S271	2446061.50	1984 Dec 27	Pioner	-	-	15Zh45 50 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S290	2446065.50	1985	Pioner-3	-	-	15Zh57 LKI-12 K-1	3 BB	-	-	KANSK	-	-	-	500?	-	Kura
1985-S291	2446065.50	1985	Pioner-3	-	-	15Zh57 LKI-13 K-2	3 BB	-	-	KANSK	-	-	-	500?	-	Kura
1985-S295	2446065.50	1985?	Pioner	-	-	15Zh56 LKI-2	Gorn	-	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S292	2446131.50	1985 Mar 7	Pioner	-	-	15Zh45 50 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S293	2446180.50	1985 Apr 25	Pioner	-	-	15Zh45 19 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S78	2446207.50	1985 May 22	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S95	2446235.46	1985 Jun 18 2300	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1985-S288	2446305.50	1985 Aug 28	Pioner	-	-	15Zh45 4 RD UBP-37	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	Kura
1985-S289	2446313.50	1985 Sep 5	Pioner	-	-	15Zh45 4 RD UBP-38	3 BB 15F452/AA74	RGCh 15F453 Duga-2	-	DROV	-	-	-	500?	-	Kura
1985-S294	2446329.50	1985 Sep 21	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S189	2446430.50	1986	Pioner	-	-	15Zh45 33 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S190	2446430.50	1986	Pioner	-	-	15Zh45 33 RD UBP	3 BB 15F452/AA74	RGCh 15F453	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S203	2446430.50	1986	Pioner UTTKh	-	-	15Zh53 37 RD UBP	3 BB 15F454	-	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S191	2446459.50	1986 Jan 29	Pioner	-	-	15Zh45 32 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S192	2446459.50	1986 Jan 29	Pioner UTTKh	-	-	15Zh53 37 RD UBP	-	-	-	GTsP-4	-	-	-	500?	-	BALKH
1986-S193	2446523.50	1986 Apr 3	Pioner	-	-	15Zh56 32 RD UBP	Gorn	GCh 15B216	-	GTsP-4	-	-	-	500?	-	BALKH
1987-S233	2446795.50	1987	Pioner-3	-	-	15Zh57 LKI K-3	3 BB	-	-	KANSK	-	-	-	500?	-	Kura
1987-S234	2446795.50	1987	Pioner-3	-	-	15Zh57 LKI K-4	3 BB	-	-	KANSK	-	-	-	500?	-	Kura
1987-S235	2446898.50	1987 Apr 13	Pioner UTTKh	-	-	15Zh53 32 RD UBP	3 BB 15F454	RGCh	-	GTsP-4	-	-	-	500?	-	BALKH
1987-S262	2446951.50	1987 Jun 5	Pioner	-	-	15Zh45 UBP	3 BB 15F452/AA74	RGCh 15F453	-	DROV	-	-	-	500?	-	Kura
1988-A23	2447397.50	1988 Aug 24	Pioner	-	-	15Zh45 INF 23RD D01	3 BB 15F452/AA74	RGCh 15F453 INF 1	-	KANSK	LC1	-	-	500?	-	Kura
1988-A24	2447397.50	1988 Aug 24	Pioner	-	-	15Zh45 INF 23RD D02	3 BB 15F452/AA74	RGCh 15F453 INF 2	-	KANSK	LC1	-	-	500?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-A25	2447397.50	1988 Aug 24	Pioner	-	-	15Zh45 INF 23RD D03	3 BB 15F452/AA74	RGCh 15F453 INF 3	-	KANSK	LC1	-	-	500?	-	Kura
1988-A11	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D01	3 BB 15F454	RGCh INF 4	-	DROV	-	-	-	500?	-	Kura
1988-A52	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D02	3 BB 15F454	RGCh INF 5	-	DROV	-	-	-	500?	-	Kura
1988-A53	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D03	3 BB 15F454	RGCh INF 6	-	DROV	-	-	-	500?	-	Kura
1988-A26	2447399.50	1988 Aug 26	Pioner	-	-	15Zh45 INF 23RD D04	3 BB 15F452/AA74	RGCh 15F453 INF 7	-	KANSK	LC1	-	-	500?	-	Kura
1988-A27	2447399.50	1988 Aug 26	Pioner	-	-	15Zh45 INF 23RD D05	3 BB 15F452/AA74	RGCh 15F453 INF 8	-	KANSK	LC1	-	-	500?	-	Kura
1988-A12	2447399.50	1988 Aug 26	Pioner	-	-	15Zh45 INF 23RD D06	3 BB 15F452/AA74	RGCh 15F453 INF 9	-	KANSK	LC1	-	-	500?	-	Kura
1988-A54	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	15Zh53 INF 4RD D04	3 BB 15F454	RGCh INF 10	-	DROV	-	-	-	500?	-	Kura
1988-A55	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	15Zh53 INF 4RD D05	3 BB 15F454	RGCh INF 11	-	DROV	-	-	-	500?	-	Kura
1988-A56	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	15Zh53 INF 4RD D06	3 BB 15F454	RGCh INF 12	-	DROV	-	-	-	500?	-	Kura
1988-A28	2447400.50	1988 Aug 27	Pioner	-	-	15Zh45 INF 23RD D07	3 BB 15F452/AA74	RGCh 15F453 INF 13	-	KANSK	LC1	-	-	500?	-	Kura
1988-A29	2447400.50	1988 Aug 27	Pioner	-	-	15Zh45 INF 23RD D08	3 BB 15F452/AA74	RGCh 15F453 INF 14	-	KANSK	LC1	-	-	500?	-	Kura
1988-A30	2447400.50	1988 Aug 27	Pioner	-	-	15Zh45 INF 23RD D09	3 BB 15F452/AA74	RGCh 15F453 INF 15	-	KANSK	LC1	-	-	500?	-	Kura
1988-A31	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D10	3 BB 15F452/AA74	RGCh 15F453 INF 16	-	KANSK	LC1	-	-	500?	-	Kura
1988-A32	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D11	3 BB 15F452/AA74	RGCh 15F453 INF 17	-	KANSK	LC1	-	-	500?	-	Kura
1988-A33	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D12	3 BB 15F452/AA74	RGCh 15F453 INF 18	-	KANSK	LC1	-	-	500?	-	Kura
1988-A34	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D13	3 BB 15F452/AA74	RGCh 15F453 INF 19	-	KANSK	LC1	-	-	500?	-	Kura
1988-A35	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D14	3 BB 15F452/AA74	RGCh 15F453 INF 20	-	KANSK	LC1	-	-	500?	-	Kura
1988-A36	2447402.50	1988 Aug 29	Pioner	-	-	15Zh45 INF 23RD D15	3 BB 15F452/AA74	RGCh 15F453 INF 21	-	KANSK	LC1	-	-	500?	-	Kura
1988-A57	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	15Zh53 INF 4RD D07	3 BB 15F454	RGCh INF 22	-	DROV	-	-	-	500?	-	Kura
1988-A58	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	15Zh53 INF 4RD D08	3 BB 15F454	RGCh INF 23	-	DROV	-	-	-	500?	-	Kura
1988-A59	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	15Zh53 INF 4RD D09	3 BB 15F454	RGCh INF 24	-	DROV	-	-	-	500?	-	Kura
1988-A37	2447404.50	1988 Aug 31	Pioner	-	-	15Zh45 INF 23RD D16	3 BB 15F452/AA74	RGCh 15F453 INF 25	-	KANSK	LC1	-	-	500?	-	Kura
1988-A38	2447404.50	1988 Aug 31	Pioner	-	-	15Zh45 INF 23RD D17	3 BB 15F452/AA74	RGCh 15F453 INF 26	-	KANSK	LC1	-	-	500?	-	Kura
1988-A39	2447404.50	1988 Aug 31	Pioner	-	-	15Zh45 INF 23RD D18	3 BB 15F452/AA74	RGCh 15F453 INF 27	-	KANSK	LC1	-	-	500?	-	Kura
1988-A17	2447404.50	1988 Sep?	Pioner	-	-	15Zh45 INF 23RD D19	3 BB 15F452/AA74	RGCh 15F453 INF 28	-	KANSK	LC1	-	-	100?	-	Kura
1988-A18	2447404.50	1988 Sep?	Pioner	-	-	15Zh45 INF 23RD D20	3 BB 15F452/AA74	RGCh 15F453 INF 29	-	KANSK	LC1	-	-	500?	-	Kura
1988-A19	2447404.50	1988 Sep?	Pioner	-	-	15Zh45 INF 23RD D21	3 BB 15F452/AA74	RGCh 15F453 INF 30	-	KANSK	LC1	-	-	500?	-	Kura
1988-A20	2447404.50	1988 Sep?	Pioner	-	-	15Zh45 INF 23RD D22	3 BB 15F452/AA74	RGCh 15F453 INF 31	-	KANSK	LC1	-	-	500?	-	Kura
1988-A21	2447404.50	1988 Sep?	Pioner	-	-	15Zh45 INF 23RD D23	3 BB 15F452/AA74	RGCh 15F453 INF 32	-	KANSK	LC1	-	-	500?	-	Kura
1988-A63	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D13	3 BB 15F454	RGCh INF 36	-	DROV	-	-	-	500?	-	Kura
1988-A64	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D14	3 BB 15F454	RGCh INF 37	-	DROV	-	-	-	500?	-	Kura
1988-A65	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D15	3 BB 15F454	RGCh INF 38	-	DROV	-	-	-	500?	-	Kura
1988-A66	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	15Zh53 INF 4RD D16	3 BB 15F454	RGCh INF 39	-	DROV	-	-	-	500?	-	Kura
1988-A67	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	15Zh53 INF 4RD D17	3 BB 15F454	RGCh INF 40	-	DROV	-	-	-	500?	-	Kura
1988-A68	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	15Zh53 INF 4RD D18	3 BB 15F454	RGCh INF 41	-	DROV	-	-	-	500?	-	Kura
1988-A69	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D19	3 BB 15F454	RGCh INF 42	-	DROV	-	-	-	500?	-	Kura
1988-A70	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D20	3 BB 15F454	RGCh INF 43	-	DROV	-	-	-	500?	-	Kura
1988-A71	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D21	3 BB 15F454	RGCh INF 44	-	DROV	-	-	-	500?	-	Kura
1988-A72	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	15Zh53 INF 4RD D22	3 BB 15F454	RGCh INF 45	-	DROV	-	-	-	500?	-	Kura
1988-A73	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	15Zh53 INF 4RD D23	3 BB 15F454	RGCh INF 46	-	DROV	-	-	-	500?	-	Kura
1988-A74	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	15Zh53 INF 4RD D24	3 BB 15F454	RGCh INF 47	-	DROV	-	-	-	500?	-	Kura
1988-A40	2447459.50	1988 Oct 25	Pioner	-	-	15Zh45 INF 23RD D24	3 BB 15F452/AA74	RGCh 15F453 INF 48	-	KANSK	LC1	-	-	500?	-	Kura
1988-A75	2447460.50	1988 Oct 26	Pioner UTTKh	-	-	15Zh53 INF 4RD D25	3 BB 15F454	RGCh INF 49	-	DROV	-	-	-	500?	-	Kura
1988-A76	2447460.50	1988 Oct 26	Pioner UTTKh	-	-	15Zh53 INF 4RD D26	3 BB 15F454	RGCh INF 50	-	DROV	-	-	-	500?	-	Kura
1988-A41	2447461.50	1988 Oct 27	Pioner	-	-	15Zh45 INF 23RD D25	3 BB 15F452/AA74	RGCh 15F453 INF 52	-	KANSK	LC1	-	-	500?	-	Kura
1988-A78	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D28	3 BB 15F454	RGCh INF 53	-	DROV	-	-	-	500?	-	Kura
1988-A79	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D29	3 BB 15F454	RGCh INF 54	-	DROV	-	-	-	500?	-	Kura
1988-A80	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D30	3 BB 15F454	RGCh INF 55	-	DROV	-	-	-	500?	-	Kura
1988-A42	2447463.50	1988 Oct 29	Pioner	-	-	15Zh45 INF 23RD D26	3 BB 15F452/AA74	RGCh 15F453 INF 56	-	KANSK	LC1	-	-	500?	-	Kura
1988-A81	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D31	3 BB 15F454	RGCh INF 57	-	DROV	-	-	-	500?	-	Kura
1988-A82	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D32	3 BB 15F454	RGCh INF 58	-	DROV	-	-	-	500?	-	Kura
1988-A83	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	15Zh53 INF 4RD D33	3 BB 15F454	RGCh INF 59	-	DROV	-	-	-	500?	-	Kura
1988-A43	2447489.50	1988 Nov 24	Pioner	-	-	15Zh45 INF 23RD D27	3 BB 15F452/AA74	RGCh 15F453 INF 60	-	KANSK	LC1	-	-	500?	-	Kura
1988-A44	2447489.50	1988 Nov 24	Pioner	-	-	15Zh45 INF 23RD D28	3 BB 15F452/AA74	RGCh 15F453 INF 61	-	KANSK	LC1	-	-	500?	-	Kura
1988-A45	2447489.50	1988 Nov 24	Pioner	-	-	15Zh45 INF 23RD D29	3 BB 15F452/AA74	RGCh 15F453 INF 62	-	KANSK	LC1	-	-	500?	-	Kura
1988-A49	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D34	3 BB 15F454	RGCh INF 63	-	DROV	-	-	-	500?	-	Kura
1988-A50	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D35	3 BB 15F454	RGCh INF 64	-	DROV	-	-	-	500?	-	Kura
1988-A51	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	15Zh53 INF 4RD D36	3 BB 15F454	RGCh INF 65	-	DROV	-	-	-	500?	-	Kura
1988-A46	2447491.50	1988 Nov 26	Pioner	-	-	15Zh45 INF 23RD D30	3 BB 15F452/AA74	RGCh 15F453 INF 66	-	KANSK	LC1	-	-	500?	-	Kura
1988-A47	2447491.50	1988 Nov 26	Pioner	-	-	15Zh45 INF 23RD D31	3 BB 15F452/AA74	RGCh 15F453 INF 67	-	KANSK	LC1	-	-	500?	-	Kura
1988-A48	2447491.50	1988 Nov 26	Pioner	-	-	15Zh45 INF 23RD D32	3 BB 15F452/AA74	RGCh 15F453 INF 68	-	KANSK	LC1	-	-	500?	-	Kura
1988-A84	2447493.50	1988 Nov 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D37	3 BB 15F454	RGCh INF 69	-	DROV	-	-	-	500?	-	Kura
1988-A85	2447493.50	1988 Nov 28	Pioner UTTKh	-	-	15Zh53 INF 4RD D38	3 BB 15F454	RGCh INF 70	-	DROV	-	-	-	500?	-	Kura
1988-A13	2447493.50	1988 Nov 28	Pioner UTTKh	-	189	15Zh53 INF 4RD D39	3 BB 15F454	RGCh INF 71	-	DROV	-	-	-	500?	-	Kura
1988-A14	2447494.50	1988 Nov 29	Pioner	-	190	15Zh45 INF 23RD D33	3 BB 15F452/AA74	RGCh 15F453 INF 72	-	KANSK	LC1	-	-	500?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A168	2439850.50	1967 Dec 26	Temp-2S	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-A146	2439855.50	1968?	Temp-2S	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-A147	2439855.50	1968?	Temp-2S	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-A148	2439855.50	1968?	Temp-2S	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1968-A149	2439855.50	1968?	Temp-2S	-	IRS	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S111	2441391.24	1972 Mar 14 1740	Temp-2S	-	44654-732-2L	0.000	RVSN	MS	-	-	Test	Pervov	NK0709-36	-
1972-S143	2441426.23	1972 Apr 18 1732	Temp-2S	-	1L	0.000	RVSN	MF	U	-	Test	RML	-	-
1972-S226	2441471.00	1972 Jun 2 1200	Temp-2S	-	3L	0.000	RVSN	MF	U	-	Test	RML	-	-
1972-S496	2441532.67	1972 Aug 3 0400	Temp-2S	-	4L	0.000	RVSN	MF	U	-	Test	RML	-	-
1972-S299	2441589.32	1972 Sep 28 1940	Temp-2S	-	35444-30-113-5L	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S163	2441825.28	1973 May 22 1845	Temp-2S	-	64553-51-483-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S191	2441842.06	1973 Jun 8 1330	Temp-2S	-	64553-21-731-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S217	2441868.42	1973 Jul 4 2200	Temp-2S	-	64513-51-481-8L	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S260	2441924.05	1973 Aug 29 1310	Temp-2S	-	64553-51-484-9L	0.000	RVSN	MS	-	-	Test	RML	-	-
1973-S494	2441955.10	1973 Sep 29 1427	Temp-2S	-	10L	0.000	RVSN	MF	U	-	Test	RML	-	-
1973-S495	2441990.12	1973 Nov 3 1450	Temp-2S	-	11L	0.000	RVSN	MF	U	-	Test	RML	-	-
1973-S496	2442039.42	1973 Dec 22 2203	Temp-2S	-	64529-677-12L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S582	2442078.22	1974 Jan 30 1715	Temp-2S	-	13L	0.000	RVSN	MF	U	-	Test	RML	-	-
1974-S84	2442107.46	1974 Feb 28 2300	Temp-2S	-	64549-679-14L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S454	2442175.36	1974 May 7 2040	Temp-2S	-	64549-682-15L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S455	2442206.35	1974 Jun 7 2030	Temp-2S	-	64549-678-16L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S456	2442217.38	1974 Jun 18 2110	Temp-2S	-	64511-642-17L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S457	2442224.36	1974 Jun 25 2040	Temp-2S	-	64549-684-18L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S453	2442227.33	1974 Jun 28 1955	Temp-2S	-	19L	0.000	RVSN	MF	U	-	Test	RML	-	-
1974-S458	2442252.47	1974 Jul 23 2310	Temp-2S	-	64511-644-20L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S459	2442287.33	1974 Aug 27 2000	Temp-2S	-	64553-51-482-21L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S460	2442290.31	1974 Aug 30 1930	Temp-2S	-	64511-648-22L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S322	2442311.50	1974 Sep 21	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	Pervov	-
1974-S548	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S549	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S550	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S551	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S552	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S553	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S554	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S555	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S557	2442290.50	1974 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S461	2442320.93	1974 Sep 30 1020	Temp-2S	-	23L	0.000	RVSN	MF	U	-	Test	RML	-	-
1974-S540	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S541	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S542	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S543	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S544	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S545	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S546	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S547	2442320.50	1974 Oct?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S462	2442356.31	1974 Nov 4 1927	Temp-2S	-	64549-681-26L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S463	2442367.36	1974 Nov 15 2040	Temp-2S	-	64511-651-25L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S464	2442381.36	1974 Nov 29 2045	Temp-2S	-	64511-652-30L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S495	2442381.37	1974 Nov 29 2046	Temp-2S	-	64521-61-863-24L	0.000	RVSN	MS	-	-	Test	RML	-	-
1974-S410	2442394.50	1974 Dec 13 0000	Temp-2S	-	64511-646-28L	0.000	RVSN	MS	-	-	Test	RML	SLFT17-81	-
1974-S411	2442394.62	1974 Dec 13 0300	Temp-2S	-	64511-645-29L	0.000	RVSN	MS	-	-	Test	RML	SFLT17-81	-
1974-S452	2442410.75	1974 Dec 29 0600	Temp-2S	-	64549-680-27L	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S19	2442412.50	1975	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1975-S405	2442412.50	1975	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1975-S20	2442517.27	1975 Apr 14 1830	Temp-2S	-	64521-61-875-35L	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S21	2442518.30	1975 Apr 15 1915	Temp-2S	-	64536-51-853-31L	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S372	2442552.31	1975 May 19 1930	Temp-2S	-	64521-61-869-34L	0.000	RVSN	MS	-	-	Test	RML	-	-
1975-S373	2442650.50	1975 Aug 26	Temp-2S	-	64521-61-874-32L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1976-S432	2442786.50	1976 Jan 9	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1976-S53	2442787.50	1976 Jan 10	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RPCB	Pervov	-
1976-S431	2442787.50	1976 Jan 10	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1976-S503	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S504	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S505	2442789.50	1976 Jan 12?	Pioner	-	Pioner-K	0.000	RVSN	MS	-	-	Test	RML	-	-
1976-S22	2442896.50	1976 Apr 28	Temp-2S	-	64536-51-859-33L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1976-S433	2442947.50	1976 Jun 18	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1976-S435	2442959.50	1976 Q3	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1976-S436	2443051.50	1976 Q4	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1976-S434	2443124.50	1976 Dec 12	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S449	2443143.50	1977 Q1	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1977-S471	2443352.50	1977 Jul 28	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S450	2443401.50	1977 Sep 15	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1977-S469	2443459.50	1977 Nov 12	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S328	2443559.07	1978 Feb 19 1345	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1978-S329	2443616.50	1978 Apr 18	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1978-S330	2443839.50	1978 Nov 27	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1979-S301	2444024.50	1979 May 31	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1979-S271	2444095.50	1979 Aug 10	Pioner UTTKh	-	U01	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1979-S272	2444054.50	1979 Q3?	Pioner UTTKh	-	U02	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1979-S273	2444054.50	1979 Q3?	Pioner UTTKh	-	U03	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1979-S274	2444146.50	1979 Q4?	Pioner UTTKh	-	U04	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1979-S275	2444146.50	1979 Q4?	Pioner UTTKh	-	U05	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1979-S302	2444116.50	1979 Sep	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S254	2444238.50	1980?	Pioner UTTKh	-	U06	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1980-S255	2444238.50	1980?	Pioner UTTKh	-	U07	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1980-S256	2444238.50	1980?	Pioner UTTKh	-	U08	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1980-S257	2444238.50	1980?	Pioner UTTKh	-	U09	0.000	RVSN	MS	-	-	Test	kap-yar.ru	-	-
1980-S281	2444319.50	1980 Mar 21	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S282	2444347.50	1980 Apr 18	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S283	2444383.50	1980 May 24	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S284	2444450.50	1980 Jul 30	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S285	2444543.50	1980 Oct 31	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S286	2444543.50	1980 Nov	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1980-S258	2444590.50	1980 Dec 17	Pioner UTTKh	-	U10	0.000	RVSN	MS	-	-	Test	RML	-	Aug14 per kap-yar.ru
1981-S253	2444724.50	1981 May	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1981-S260	2444767.50	1981 Jun 12	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-S261	2444767.50	1981 Jun 12	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1981-A40	2444767.50	1981 Jun 12	Pioner	-	-	0.000	RVSN	MF	U	-	Test	RML	-	-
1981-S254	2444843.50	1981 Aug 27	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1982-S303	2445028.50	1982 Mar	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1982-S279	2445028.50	1982 Mar	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1982-S280	2445058.50	1982 Mar 30	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1982-S299	2445134.50	1982 Jun 14	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1982-S125	2445138.62	1982 Jun 18 0300	Pioner	-	-	0.000	RVSN	MS	-	-	Target	RML	kursakov.narod.ru	-
1982-S278	2445257.21	1982 Oct 14 1700	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S332	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S333	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S334	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S335	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S336	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S337	2445334.50	1983	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S304	2445408.21	1983 Mar 14 1700	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S305	2445415.21	1983 Mar 21 1700	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S330	2445424.50	1983 Apr?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S331	2445424.50	1983 Apr?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S306	2445515.50	1983 Jul	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1983-S307	2445546.50	1983 Aug	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1983-S301	2445666.50	1983 Nov 28	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S308	2445668.50	1983 Nov 30	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1983-S302	2445675.50	1983 Dec 7	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S303	2445677.50	1983 Dec 9	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S263	2445790.50	1984 Apr	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1984-S253	2445797.50	1984 Apr 7	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S254	2445799.50	1984 Apr 9	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S255	2445801.50	1984 Apr 11	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S256	2445803.50	1984 Apr 13	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S257	2445803.50	1984 Apr 13	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S258	2445803.50	1984 Apr 13	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S259	2445803.50	1984 Apr 13	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S272	2445813.50	1984 Apr 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1984-S275	2445817.50	1984 Apr 27	Pioner	-	-	0.000	RVSN	MS	-	-	Test/Comms	BMLX	-	-
1984-S273	2445881.50	1984 Jul	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S270	2445881.50	1984 Jul	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S309	2445950.50	1984 Sep 7	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S310	2445950.50	1984 Sep 7	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S308	2445953.50	1984 Sep 10	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S297	2445970.50	1984 Sep 27	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S298	2445943.50	1984 Sep?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S299	2445943.50	1984 Sep?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S300	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S301	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S302	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S303	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S304	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S305	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S306	2445973.50	1984 Oct?	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S307	2445973.50	1984 Oct	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S274	2445998.50	1984 Oct 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S271	2446061.50	1984 Dec 27	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S290	2446065.50	1985	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1985-S291	2446065.50	1985	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1985-S295	2446065.50	1985?	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1985-S292	2446131.50	1985 Mar 7	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S293	2446180.50	1985 Apr 25	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S78	2446207.50	1985 May 22	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S95	2446235.46	1985 Jun 18 2300	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S288	2446305.50	1985 Aug 28	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S289	2446313.50	1985 Sep 5	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S294	2446329.50	1985 Sep 21	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S189	2446430.50	1986	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1986-S190	2446430.50	1986	Pioner	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1986-S203	2446430.50	1986	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S191	2446459.50	1986 Jan 29	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S192	2446459.50	1986 Jan 29	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S193	2446523.50	1986 Apr 3	Pioner	-	-	0.000	RVSN	MS	-	-	Test/Comms	BMLX	-	-
1987-S233	2446795.50	1987	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1987-S234	2446795.50	1987	Pioner-3	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1987-S235	2446898.50	1987 Apr 13	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1987-S262	2446951.50	1987 Jun 5	Pioner	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-A23	2447397.50	1988 Aug 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A24	2447397.50	1988 Aug 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-

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Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-A25	2447397.50	1988 Aug 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A11	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A52	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A53	2447398.50	1988 Aug 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A26	2447399.50	1988 Aug 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A27	2447399.50	1988 Aug 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A12	2447399.50	1988 Aug 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A54	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A55	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A56	2447400.50	1988 Aug 27	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A28	2447400.50	1988 Aug 27	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A29	2447400.50	1988 Aug 27	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A30	2447400.50	1988 Aug 27	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A31	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A32	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A33	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A34	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A35	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A36	2447402.50	1988 Aug 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A57	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A58	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A59	2447403.50	1988 Aug 30	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A37	2447404.50	1988 Aug 31	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A38	2447404.50	1988 Aug 31	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A39	2447404.50	1988 Aug 31	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A17	2447404.50	1988 Sep?	Pioner	-	-	0.000	RVSN	MF	U	-	INF Treaty Destruct	BMLX	-	-
1988-A18	2447404.50	1988 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A19	2447404.50	1988 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A20	2447404.50	1988 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A21	2447404.50	1988 Sep?	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A63	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A64	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A65	2447427.50	1988 Sep 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A66	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A67	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A68	2447430.50	1988 Sep 26	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A69	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A70	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A71	2447432.50	1988 Sep 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A72	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A73	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A74	2447458.50	1988 Oct 24	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A40	2447459.50	1988 Oct 25	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A75	2447460.50	1988 Oct 26	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A76	2447460.50	1988 Oct 26	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A41	2447461.50	1988 Oct 27	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A78	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A79	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A80	2447462.50	1988 Oct 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A42	2447463.50	1988 Oct 29	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A81	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A82	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A83	2447488.50	1988 Nov 23	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A43	2447489.50	1988 Nov 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A44	2447489.50	1988 Nov 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A45	2447489.50	1988 Nov 24	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A49	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A50	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A51	2447490.50	1988 Nov 25	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A46	2447491.50	1988 Nov 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A47	2447491.50	1988 Nov 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A48	2447491.50	1988 Nov 26	Pioner	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-
1988-A84	2447493.50	1988 Nov 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A85	2447493.50	1988 Nov 28	Pioner UTTKh	-	-	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A13	2447493.50	1988 Nov 28	Pioner UTTKh	-	189	0.000	RVSN	MS	-	-	INF Treaty Destruct	KY60	-	-
1988-A14	2447494.50	1988 Nov 29	Pioner	-	190	0.000	RVSN	MS	-	-	INF Treaty Destruct	BMLX	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-A268	2437403.50	1961 Apr 14	Temp	-	-	9K71 first launch	-	-	-	GTsP-4	-	-	-	10?	-	-
1961-A269	2437389.50	1961 Q2?	Temp	-	-	9K71 No. 2	-	-	-	GTsP-4	-	-	-	10?	-	-
1961-A270	2437526.50	1961 Aug 15	Temp	-	-	9K71 No. 3	-	-	-	GTsP-4	-	-	-	10?	-	-
1961-A271	2437572.50	1961 Oct	Temp	-	-	9K71 Phase 2 No. 1	-	-	-	GTsP-4	-	-	-	10?	-	-
1961-S460	2437299.50	1961?	Temp	-	-	9K71 Phase 2 No. 2	-	-	-	GTsP-4	-	-	-	100?	-	-
1963-A210	2438029.50	1963?	Temp	-	-	9K71 Phase 2 No. 11	-	-	-	GTsP-4	-	-	-	10?	-	-
1963-S637	2438210.50	1963 Jul	Temp	-	-	9K71 Phase 2 No. 12	-	-	-	GTsP-4	-	-	-	100?	-	-
1964-S809	2438468.50	1964 Mar 14	Temp-S	-	OTR-22S	9M76B No. 1	-	-	-	GTsP-4	-	-	-	100?	580	-
1964-A206	2438485.50	1964 Apr?	Temp-S	-	-	9M76B No. 2	-	-	-	GTsP-4	-	-	-	10?	-	-
1964-A207	2438515.50	1964 May?	Temp-S	-	-	9M76B No. 3	-	-	-	GTsP-4	-	-	-	10?	-	-
1964-S810	2438546.50	1964 Jun?	Temp-S	-	-	9M76B No. 4	-	-	-	GTsP-4	-	-	-	100?	600?	-
1964-S811	2438594.50	1964 Jul 18	Temp-S	-	-	9M76B No. 5	-	-	-	GTsP-4	-	-	-	100?	850	-
1966-S774	2439419.50	1966 Oct 21	Temp-S	-	-	9M76B	Pal'ma-2	-	-	NIIP-5	LC44	-	-	100?	-	-
1971-S681	2441126.50	1971 Jun 24	Temp-S	-	-	9M76B	Svinets	-	-	NIIP-5	LC44	-	-	100?	-	-
1971-S682	2441127.50	1971 Jun 25	Temp-S	-	-	9M76B	Svinets	-	-	NIIP-5	LC44	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-A268	2437403.50	1961 Apr 14	Temp	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1961-A269	2437389.50	1961 Q2?	Temp	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1961-A270	2437526.50	1961 Aug 15	Temp	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1961-A271	2437572.50	1961 Oct	Temp	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1961-S460	2437299.50	1961?	Temp	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1963-A210	2438029.50	1963?	Temp	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1963-S637	2438210.50	1963 Jul	Temp	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1964-S809	2438468.50	1964 Mar 14	Temp-S	-	OTR-22S	0.000	RVSN	MS	-	-	Test	KY60	-	-
1964-A206	2438485.50	1964 Apr?	Temp-S	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1964-A207	2438515.50	1964 May?	Temp-S	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	-
1964-S810	2438546.50	1964 Jun?	Temp-S	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1964-S811	2438594.50	1964 Jul 18	Temp-S	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1966-S774	2439419.50	1966 Oct 21	Temp-S	-	-	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1971-S681	2441126.50	1971 Jun 24	Temp-S	-	-	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1971-S682	2441127.50	1971 Jun 25	Temp-S	-	-	0.000	RVSN	MS	-	-	Test	RPCB	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2023-F04	2460026.64	2023 Mar 23 0325:00	Terran 1	-	1	GLHF	-	Good Luck Have Fun	-	CC	LC16	-	-	130	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2023-F04	2460026.64	2023 Mar 23 0325:00	Terran 1	-	1	0.001	RELSP	OF	S2I	C	Sat LEO O	youtube.com	-	No S2 burn

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1952-A285	2434324.23	1952 Nov 7 1734	Terrier	-	-	Booster Test 5	-	-	-	WS	-	-	-	1	-	-
1959-A74	2436689.50	1959 May 1	Terrier ASROC Cajun	-	Terasca	-	-	St 2 launch	-	PM	-	-	-	0?	-	-
1959-S97	2436745.50	1959 Jun 26	Terrier ASROC Cajun	-	Terasca	Radar beacon	-	-	-	PM	-	-	-	100?	-	-
1959-A135	2436792.50	1959 Aug 12	Terrier ASROC Cajun	-	Terasca	UV Scanner	-	-	-	PM	-	-	-	0?	-	-
1959-S191	2436841.50	1959 Sep 30	Terrier Asp	-	Tarp	UV Scanner	-	-	-	PM	-	-	-	100?	-	-
1960-A378	2437085.50	1960 Jun	Terrier Asp	-	Tarp	TASCAN 1	-	-	-	PM?	-	-	-	20?	-	-
1960-A379	2437115.50	1960 Jul?	Terrier Asp	-	Tarp	TASCAN 2	-	-	-	PM?	-	-	-	20?	-	-
1960-A380	2437177.50	1960 Sep?	Terrier Asp	-	Tarp	TASCAN 3	-	-	-	PM?	-	-	-	20?	-	-
1960-S507	2437207.50	1960 Oct	Terrier Asp	-	Tarp	TASCAN 4	-	-	-	PM?	-	-	-	80?	-	-
1961-S455	2437478.12	1961 Jun 27 1500	Hugo	-	Hugo III S/N-D2	KB-14A Camera	-	-	-	WS	LC35	-	-	161	-	-
1962-S67	2437738.15	1962 Mar 14 1542	Terrier Asp IV	-	-	Vista-300	-	-	-	PA	LC-B	-	-	150?	-	-
1962-A251	2437714.50	1962 Feb 19	Terrier Viper I	-	HITAB-BWSS-01	TABSTONE	-	-	-	EGL	-	-	-	10?	-	-
1962-S638	2437838.50	1962 Jun 23	Terrier Viper I	-	HITAB-BWSS-02	TABSTONE	-	-	-	EGL	-	-	-	140?	-	-
1962-S562	2438011.50	1962 Dec 13	Terrier Asp IV	-	-	Vista-300	-	-	-	PA	LC-B	-	-	150?	-	-
1963-S636	2438360.50	1963 Nov 27	Terrier Viper I	-	HITAB-BWSS-03	-	-	-	-	EGL	-	-	-	140?	-	-
1964-S803	2438554.50	1964 Jun 8	Hugo	-	Hugo IV	Diagnostic	-	-	-	PM	-	-	-	117	-	-
1964-A104	2438584.50	1964 Jul 8	Terrier Tomahawk	-	Sandia 152-63	Terihawk-12	-	-	-	KAU	-	-	-	1	-	-
1964-A205	2438606.50	1964 Jul 30	Hugo	-	Hugo IV	Diagnostic	-	-	-	PM	-	-	-	10?	-	-
1964-A124	2438632.52	1964 Aug 25 0030	Terrier Tomahawk	-	Sandia 152-68	TT-12 no igniter	-	-	-	TTR	-	-	-	30	-	-
1964-S804	2438668.50	1964 Sep 30	Hugo	-	Hugo IV	TV payload	-	-	-	PM	-	-	-	120?	-	-
1964-S806	2438683.50	1964 Oct 15	Terrier Hydac	-	-	-	-	-	-	SNI	-	-	-	500?	-	-
1964-A154	2438684.50	1964 Oct 16	Terrier Tomahawk	-	Sandia 152-70	Terihawk-12	-	-	-	KAU	-	-	-	0?	-	-
1965-S792	2438828.50	1965 Mar 9	Terrier Hydac	-	-	-	-	-	-	SNI	-	-	-	500?	-	-
1965-A147	2439053.50	1965 Oct 20	Terrier/551	-	-	Flight test 1	-	-	-	SNI	-	-	-	5	-	-
1965-A190	2439095.56	1965 Dec 1 0128:20?	Terrier	?	-	DAT-371 Intercept	-	-	SHIP-US	SNI	-	-	-	8	-	-
1966-S142	2439199.50	1966 Mar 15?	Terrier Hydac	-	-	DAR-3	-	-	-	SNI	-	-	-	500?	-	-
1966-S412	2439339.50	1966 Aug 2	Terrier/551	-	-	Flight test 2	-	-	-	SNI	-	-	-	443	-	-
1967-S446	2439754.50	1967 Sep 21	Terrier Sandhawk	-	Sandia 281-7	JTF-8 Sandhawk	-	-	-	JI	-	-	-	383	-	-
1967-S468	2439766.50	1967 Oct 3	Terrier Sandhawk	-	Sandia 281-8	-	-	-	-	JI	-	-	-	423	-	-
1968-S556	2440158.98	1968 Oct 29 1132	Terrier Sandhawk	-	Sandia 281-10	LRL ACS-3	-	-	-	JI	UL6	-	-	320	-	-
1968-S572	2440167.78	1968 Nov 7 0645	Terrier Sandhawk	-	Sandia 281-11	LRL ACS-2	-	-	-	JI	UL6?	-	-	320	-	-
1968-S687	2440171.50	1968 Nov 11	Terrier Tomahawk	-	-	-	-	-	-	JI	-	-	-	150?	-	-
1969-S208	2440300.73	1969 Mar 20 0537	Terrier Sandhawk	-	SECEDE R8	SECEDE III HEMLOCK	-	-	-	PF	-	-	-	176	-	-
1969-S342	2440365.74	1969 May 24 0552:44	Terrier Tomahawk	-	Sandia 152-126	LRL BOX-16 TT-9	-	-	-	KAU	-	-	-	398	-	-
1970-S356	2440719.84	1970 May 13 0803	Terrier Sandhawk	-	Sandia 281-14	LRL ACS-4	-	-	-	KAU	-	-	-	306	-	-
1970-S666	2440721.97	1970 May 15 1114	Terrier Sandhawk	-	-	FIR Radiometer	-	-	-	KAU	-	-	-	300?	-	-
1970-S359	2440722.74	1970 May 16 0545	Terrier Sandhawk	-	SECEDE R9	ROADRUNNER	-	-	-	KAU	-	-	-	208	-	-
1970-A169	2440727.50	1970 May 21	Terrier Recruit	-	Sandia	Flight test 1	-	-	-	TTR	-	-	-	3?	-	-
1970-S371	2440732.74	1970 May 26 0550	Terrier Sandhawk	?	SECEDE R10	SAPSUCKER	-	-	-	KAU	-	-	-	204	-	-
1970-S683	2440732.88	1970 May 26 0910	Terrier Sandhawk	?	Sandia 281-16	-	-	-	-	KAU	-	-	-	181	-	-
1970-S387	2440743.74	1970 Jun 06 0550	Terrier Sandhawk	?	SECEDE R11	TITMOUSE	-	-	-	KAU	-	-	-	210	-	-
1970-A170	2440767.50	1970 Q3?	Terrier Recruit	-	Sandia	Flight test 2	-	-	-	TTR	-	-	-	14	-	-
1970-A173	2440859.50	1970 Oct	Terrier Recruit	-	Sandia	SAMS Vehicle 0	-	-	-	KAU	-	-	-	3?	-	-
1971-S68	2440968.48	1971 Jan 16 2332	Terrier Tomahawk	-	SECEDE R12	SECEDE II NUTMEG I	-	-	-	EGL	-	-	-	144	-	-
1971-S658	2440972.49	1971 Jan 20 2345:31	Terrier Tomahawk	?	SECEDE	SECEDE II Early Beacon	-	-	-	EGL	-	-	-	270	-	-
1971-S72	2440972.49	1971 Jan 20 2345	Terrier Tomahawk	-	SECEDE R13	SECEDE II PLUM	-	-	-	EGL	-	-	-	182	-	-
1971-S93	2440978.46	1971 Jan 26 2258	Terrier Tomahawk	-	SECEDE	Cert.Round (Probe C)	-	-	-	EGL	-	-	-	300?	-	-
1971-S659	2440978.49	1971 Jan 26 2349:51	Terrier Tomahawk	?	SECEDE	SECEDE II Early Beacon	-	-	-	EGL	-	-	-	260?	-	-
1971-S94	2440978.49	1971 Jan 26 2350	Terrier Tomahawk	-	SECEDE R14/R15	SECEDE II REDWOOD	-	-	-	EGL	-	-	-	252	-	-
1971-S102	2440980.46	1971 Jan 28 2257	Terrier Tomahawk	-	SECEDE	SECEDE II Probe F	-	-	-	EGL	-	-	-	300?	-	-
1971-S660	2440981.49	1971 Jan 29 2352:17	Terrier Tomahawk	?	SECEDE	SECEDE II Early Beacon	-	-	-	EGL	-	-	-	263	-	-
1971-S661	2440981.52	1971 Jan 30 0024:00	Terrier Tomahawk	?	SECEDE	SECEDE II Late Beacon	-	-	-	EGL	-	-	-	260?	-	-
1971-S633	2440984.45	1971 Feb 1 2255	Terrier Tomahawk	-	SECEDE R17/R18	SECEDE II SPRUCE II	(Probe B)	-	-	EGL	-	-	-	184	-	-
1971-S108	2440984.46	1971 Feb 1 2257	Terrier Tomahawk	-	SECEDE R18	SECEDE II SPRUCE II	(Probe C)	-	-	EGL	-	-	-	260	-	-
1971-S662	2440983.50	1971 Feb 1 0001:24	Terrier Tomahawk	?	SECEDE	SECEDE II Late Beacon	-	-	-	EGL	-	-	-	260?	-	-
1971-S657	2440985.19	1971 Feb 2 1632:31	Terrier Tomahawk	?	SECEDE	SECEDE II Early Beacon	-	-	-	EGL	-	-	-	259	-	-
1971-S110	2440985.19	1971 Feb 2 1635	Terrier Tomahawk	-	SECEDE R19	SECEDE II QUINCE II	(Probe A)	-	-	EGL	-	-	-	300?	-	-
1971-S111	2440985.19	1971 Feb 2 1636	Terrier Tomahawk	-	SECEDE R20	SECEDE II QUINCE II	(Probe E)	-	-	EGL	-	-	-	300?	-	-
1971-A28	2441018.98	1971 Mar 8 1138	Terrier Tomahawk	-	-	Caribou V	-	-	-	PF	-	-	-	0?	-	-
1971-A170	2441025.50	1971 Mar 15	Terrier Recruit	-	Sandia	SAMS Vehicle 1	-	-	-	WI	-	-	-	3?	-	-
1971-A171	2441036.50	1971 Mar 26	Terrier Recruit	-	Sandia	SAMS Vehicle 2	-	-	-	WI	-	-	-	3?	-	-
1971-S632	2441093.73	1971 May 22 0530	Terrier Sandhawk	-	-	SHIRX	-	-	-	KAU	-	-	-	300?	-	-
1971-S303	2441097.91	1971 May 26 0947	Terrier Sandhawk	-	Sandia 281-19?	LRL ACS-4B	-	-	-	KAU	-	-	-	300	-	-
1971-S319	2441100.95	1971 May 29 1048	Terrier Sandhawk	-	-	-	-	-	-	KAU	-	-	-	340	-	-
1971-S538	2441248.02	1971 Oct 23 1225	Terrier Sandhawk	-	Sandia 281-23	LRL ACS-4C	-	-	-	KAU	LC19	-	-	303	-	-
1971-S539	2441248.69	1971 Oct 24 0430	Terrier Tomahawk	-	SECEDE I R21	BARBIZON CANUTO-A	-	-	-	KAU	-	-	-	202	-	-
1971-S540	2441248.69	1971 Oct 24 0434	Terrier Tomahawk	-	SECEDE I R22	BARBIZON CANUTO-B	-	-	-	KAU	-	-	-	202	-	-
1971-S552	2441263.69	1971 Nov 8 0428	Terrier Tomahawk	-	SECEDE I R23	BARBIZON DARDABASI-A	-	-	-	KAU	-	-	-	198	-	-
1971-S553	2441263.69	1971 Nov 8 0432	Terrier Tomahawk	-	SECEDE I R24	BARBIZON DARDABASI-B	-	-	-	KAU	-	-	-	198	-	-
1972-A124	2441351.35	1972 Feb 3 2017	Terrier Recruit	-	Sandia	SAMS Vehicle 3	Nose rain erosion	-	-	WI	LAO ARC	-	-	3	-	-
1972-A132	2441365.12	1972 Feb 17 1456	Terrier Recruit	-	Sandia	SAMS Vehicle 6	-	-	-	WI	LAO ARC	-	-	3?	-	-
1972-A125	2441365.13	1972 Feb 17 1512	Terrier Recruit	-	Sandia	SAMS Vehicle 4	-	-	-	WI	LAO HAD	-	-	3?	-	-
1972-S116	2441392.91	1972 Mar 16 0954	Terrier Sandhawk	-	Sandia 281-24	CARIBOU VI	-	-	-	PF	-	-	-	300?	-	-
1972-A126	2441394.39	1972 Mar 17 2120:38	Terrier Recruit	-	Sandia	SAMS Vehicle 7	Nose rain erosion	-	-	WI	LAO ARC	-	-	3?	-	-
1972-S121	2441393.90	1972 Mar 17 0939	Terrier Sandhawk	-	Sandia 281-25	-	-	-	-	PF	-	-	-	300?	-	-
1972-A127	2441399.16	1972 Mar 22 1548	Terrier Recruit	-	Sandia	SAMS Vehicle 5	-	-	-	WI	LAO HAD	-	-	3?	-	-
1972-S196	2441454.97	1972 May 17 1112	Terrier Sandhawk	-	-	-	-	-	-	KAU	-	-	-	325	-	-
1972-S206	2441457.89	1972 May 20 0924:30	Terrier Tomahawk	-	Sandia 281-?	LRL ACS-7A (TT-9)	-	-	-	KAU	-	-	-	300	-	-
1972-S257	2441509.29	1972 Jul 10 1851	Terrier Sandhawk	-	Sandia 281-28	-	-	-	-	PF	-	-	-	300?	-	-
1972-A128	2441546.13	1972 Aug 16 1502	Terrier Recruit	-	-	Nose rain erosion	-	-	-	WI	-	-	-	10?	-	-
1972-S355	2441611.01	1972 Oct 20 1217:30	Terrier Sandhawk	-	Sandia 281-29	LRL ACS-4D	-	-	-	KAU	LC14	-	-	310	-	-
1972-S356	2441612.02	1972 Oct 21 1234:51	Terrier Tomahawk	-	Sandia 152-197	LRL ACS-7B	-	-	-	KAU	LC12	-	-	300	-	-
1973-A89	2441716.09	1973 Feb 2 1408:00	Terrier Recruit	-	Sandia	SAMS R487101	-	-	-	WI	-	-	-	4?	-	-
1973-A90	2441716.09	1973 Feb 2 1408:30	Terrier Recruit	-	Sandia	SAMS R487102	-	-	-	WI	-	-	-	4?	-	-
1973-A91	2441740.94	1973 Feb 27 1040:00	Terrier Recruit	-	Sandia	SAMS R487103	-	-	-	WI	-	-	-	4?	-	-
1973-A92	2441740.94	1973 Feb 27 1040:30	Terrier Recruit	-	Sandia	SAMS R487104	-	-	-	WI	-	-	-	4?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1973-S208	2441856.95	1973 Jun 23 1045:30	Terrier Sandhawk	-	Sandia 281-32	LRL ACS-4E (ACS-9)	-	-	-	KAU	LC12	-	-	297	-	-
1973-A93	2441862.30	1973 Jun 28 1906	Terrier Recruit	-	-	-	-	-	-	WI	-	-	-	10?	-	-
1973-A94	2441986.50	1973 Nov	Terrier Recruit	-	Sandia	SAMS R487401	-	-	-	WI	-	-	-	4?	-	-
1974-A01	2442047.50	1974	Terrier Nike	-	Sandia NRV	Parachute test	-	-	-	TTR	-	-	-	2	-	-
1974-A60	2442073.92	1974 Jan 26 0959	Terrier Tomahawk	-	Sandia 152-202	LRL ACS-7C	-	-	-	KAU	LC12	-	-	0	-	-
1974-A72	2442074.25	1974 Jan 26 1800	Terrier Recruit	-	Sandia	SAMS	-	-	-	WI	-	-	-	4?	-	-
1974-A70	2442145.50	1974 Apr 8	Terrier Recruit	-	Sandia	SAMS R487411	-	-	-	WI	-	-	-	4?	-	-
1974-A71	2442145.50	1974 Apr 8	Terrier Recruit	-	Sandia	SAMS R487406	-	-	-	WI	-	-	-	4?	-	-
1974-S225	2442218.72	1974 Jun 20 0511	Terrier Sandhawk	-	Sandia	Eclipse	-	-	-	LANC	-	-	-	320	-	-
1974-S226	2442218.72	1974 Jun 20 0511	Terrier Sandhawk	-	Sandia	Eclipse	-	-	-	LANC	-	-	-	320	-	-
1974-S259	2442228.96	1974 Jun 30 1104:00	Terrier Sandhawk	-	Sandia 281-?	LRL ACS-4F	-	-	-	KAU	-	-	-	305	-	-
1974-S374	2442362.01	1974 Nov 10 1209:00	Terrier Sandhawk	-	Sandia 281-3	LEINAX III	-	-	-	KAU	-	-	-	278	-	-
1974-A51	2442362.50	1974 Nov 11	Terrier Malemute	-	Sandia 497-002	-	-	-	-	KAU	-	-	-	10	-	-
1975-S150	2442542.08	1975 May 9 1400	Terrier Sandhawk	-	Sandia	WASO	EM pulse background	-	-	KAU	-	-	-	406	-	-
1975-S151	2442544.50	1975 May 12	Terrier Malemute	-	Sandia 497-004	-	-	-	-	KAU	-	-	-	485	-	-
1975-S154	2442546.50	1975 May 14	Terrier Tomahawk	-	Sandia	-	-	-	-	KAU	-	-	-	360	-	-
1975-S155	2442547.50	1975 May 15	Terrier Tomahawk	-	Sandia	-	-	-	-	KAU	-	-	-	360	-	-
1975-S216	2442591.34	1975 Jun 27 2010	Terrier Malemute	-	NASA 29.02GT	-	-	-	-	WI	-	-	-	283	-	-
1976-S58	2442793.27	1976 Jan 15 1830	Terrier Malemute	-	NASA 12.34CT-GT	-	-	-	-	WI	-	-	-	81	-	-
1976-S448	2442913.78	1976 May 15 0642	Terrier Sandhawk	-	Sandia	-	-	-	-	KAU	LC12	-	-	270?	-	-
1976-S189	2442927.91	1976 May 29 0949:30	Terrier Sandhawk	-	Sandia 281-042	LEINAX IV	-	-	-	KAU	-	-	-	271	-	-
1976-S197	2442935.86	1976 Jun 6 0844	Terrier Sandhawk	?	Sandia	-	-	-	-	KAU	-	-	-	430?	-	-
1976-S246	2443002.30	1976 Aug 11 1912	Terrier Malemute	-	NASA 12.36GT	-	-	-	-	WI	-	-	-	612	-	-
1976-S339	2443110.37	1976 Nov 27 2051:41	Terrier Malemute	-	NASA 29.05IE	Ferdinand 38 (Harang)	-	-	-	AND	-	-	-	538	-	-
1977-S39	2443157.93	1977 Jan 14 1018:10	Terrier Malemute	-	NASA 29.03AE	-	-	-	-	PF	-	-	-	500	-	-
1977-A05	2443161.74	1977 Jan 18 0543:20	Terrier Malemute	-	NASA 29.04UE	-	-	-	-	PF	-	-	-	11	-	-
1977-S238	2443388.74	1977 Sep 2 0550:54	Terrier Sandhawk	-	Lagopedo Uno	-	-	-	-	KAU	-	-	-	261	-	-
1977-S243	2443396.50	1977 Sep 10	Terrier Malemute	-	Sandia 497-008	-	-	-	-	WI	-	-	-	500?	-	-
1977-S244	2443398.75	1977 Sep 12 0600:09	Terrier Sandhawk	-	Lagopedo Dos	LASL Lagopedo II	-	-	-	KAU	-	-	-	286	-	-
1978-S56	2443541.87	1978 Feb 2 0854	Terrier Malemute	-	NASA 29.08UE	-	-	-	-	PF	-	-	-	616	-	-
1978-S90	2443576.84	1978 Mar 9 0813:10	Terrier Malemute	-	NASA 29.07UE	-	-	-	-	PF	-	-	-	336	-	-
1979-S45	2443899.96	1979 Jan 26 1101	Terrier Malemute	-	NASA 29.13UE	-	-	-	-	PF	-	-	-	186	-	-
1979-S124	2443978.90	1979 Apr 15 0931:01	Terrier Malemute	-	NASA 29.11GE	-	-	-	-	PF	-	-	-	671	-	-
1979-S125	2443981.88	1979 Apr 18 0909	Terrier Malemute	-	NASA 29.12GE	-	-	-	-	PF	-	-	-	500?	-	-
1979-S165	2444071.02	1979 Jul 16 1231:30	Terrier Malemute	-	Sandia 497-011	DNA PLUMEX I	-	-	-	KMR	-	-	-	590	-	-
1979-S172	2444077.91	1979 Jul 23 0957:30	Terrier Malemute	-	Sandia 497-012	DNA PLUMEX II	-	-	-	KMR	-	-	-	580	-	-
1979-S218	2444159.50	1979 Oct 13	Terrier Malemute	-	Sandia 497-010	LASL Aguila	-	-	-	KAU	-	-	-	533	-	-
1980-S30	2444265.89	1980 Jan 27 0917	Terrier Malemute	-	NASA 29.14UE	ARCS 1	-	-	-	PF	-	-	-	433	-	-
1980-S221	2444578.46	1980 Dec 4 2305:00	Terrier Tomahawk	-	-	DNA PLACES GAIL	-	-	-	EGL	A-15	-	-	300	-	-
1980-S224	2444580.46	1980 Dec 6 2305:00	Terrier Tomahawk	-	-	DNA PLACES HOPE	-	-	-	EGL	A-15	-	-	300	-	-
1980-S225	2444582.47	1980 Dec 8 2310:00	Terrier Tomahawk	-	-	DNA PLACES IRIS	-	-	-	EGL	A-15	-	-	300	-	-
1980-S226	2444582.49	1980 Dec 8 2338:36	Terrier Tomahawk	-	-	DNA PLACES beacon 1	-	-	-	EGL	A-15	-	-	300	-	-
1980-S227	2444582.49	1980 Dec 8 2351:36	Terrier Tomahawk	-	-	DNA PLACES beacon 2	-	-	-	EGL	A-15	-	-	300	-	-
1980-S234	2444586.47	1980 Dec 12 2311:00	Terrier Tomahawk	-	-	DNA PLACES JAN Ba	-	-	-	EGL	A-15	-	-	300	-	-
1980-S235	2444586.49	1980 Dec 12 2342:50	Terrier Tomahawk	-	-	DNA PLACES JAN Probe	-	-	-	EGL	A-15	-	-	241	-	-
1981-S144	2444830.82	1981 Aug 14 0743	Black Brant X	-	NASA 12.38GT	-	-	-	-	WI	-	-	-	625	-	-
1981-S175	2444939.57	1981 Dec 1 0138	Black Brant X	-	NASA 35.001UE	CENTAUR	-	-	-	CP	-	-	-	612	-	-
1981-S178	2444945.50	1981 Dec 7 0000:40	Terrier Malemute	-	NASA 29.17CE	CENTAUR	-	-	-	CP	-	-	-	451	-	-
1981-S184	2444952.45	1981 Dec 13 2254:25	Black Brant X	-	NASA 35.002UE	CENTAUR	-	-	-	CP	-	-	-	662	-	-
1982-S41	2444990.56	1982 Jan 21 0131	Terrier Malemute	-	NASA 29.18UE	-	-	-	-	CP	-	-	-	633	-	-
1982-S73	2445034.87	1982 Mar 6 0847	Terrier Malemute	-	NASA 29.16CE	-	-	-	-	PF	-	-	-	434	-	-
1982-A07	2445044.72	1982 Mar 16 0510	Black Brant IX	-	AAF-IXC-1	WATERHOLE 2	-	-	-	FC	-	-	-	3	-	-
1982-S107	2445075.77	1982 Apr 16 0629	Black Brant X	-	NASA 35.003GE	-	-	-	-	PF	-	-	-	1500	-	-
1982-S109	2445079.77	1982 Apr 20 0630	Black Brant X	-	NASA 35.004GE	-	-	-	-	PF	-	-	-	1195	-	-
1982-S188	2445287.83	1982 Nov 14 0755:15	Black Brant IX	-	NASA 36.01UE	ARCS 2	-	-	-	PF	-	-	-	473	-	-
1983-S48	2445354.47	1983 Jan 19 2312:38	Black Brant IX	-	SSC S36	AURELD-HIGH	-	-	-	ESR	MRL	-	-	494	-	-
1983-S55	2445372.59	1983 Feb 7 0214	Black Brant IX	-	AAF-IXC-2	WATERHOLE 3	-	-	-	FC	-	-	-	333	-	-
1983-S65	2445395.62	1983 Mar 2 0251:11	Terrier Malemute	-	NASA 29.20UE	CONDOR Cornell ESF	-	-	-	CHI	PLOB	-	-	587	-	-
1983-S76	2445408.61	1983 Mar 15 0233:19	Terrier Malemute	-	NASA 29.19UE	CONDOR Cornell ESF	-	-	-	CHI	PLOB	-	-	535	-	-
1983-S85	2445423.79	1983 Mar 30 0659:51	Black Brant IX	-	NASA 36.02UE	ECHO VI	-	-	-	PF	-	-	-	191	-	-
1983-S87	2445434.82	1983 Apr 10 0747	Black Brant X	-	NASA 35.005UG	UMD ISM Helium	-	-	-	WI	-	-	-	667	-	-
1983-S314	2445601.58	1983 Sep 24 0200	Terrier Tomahawk	-	-	TAURUS I	-	-	-	KAU	LC19	-	-	247	-	-
1983-S201	2445650.38	1983 Nov 11 2108:39	Terrier Malemute	-	NASA 29.22GE/IE	Ferdinand 63/Pol.Leap	-	-	-	AND	-	-	-	454	-	-
1984-S54	2445737.88	1984 Feb 7 0909:00	Black Brant X	-	NASA 35.006UE	Bidarca	-	-	-	PF	-	-	-	1040	-	-
1984-S55	2445737.88	1984 Feb 7 0910:40	Terrier Malemute	-	NASA 29.21UE	Bidarca	-	-	-	YUK	-	-	-	640	-	-
1984-S72	2445789.96	1984 Mar 30 1100	Black Brant X	-	NASA 35.007GE	-	-	-	-	PF	-	-	-	948	-	-
1984-S75	2445791.80	1984 Apr 1 0719	Black Brant X	-	NASA 35.008GE	-	-	-	-	PF	-	-	-	954	-	-
1985-S26	2446088.89	1985 Jan 23 0923	Terrier Malemute	-	NASA 29.23UE	COPE	-	-	-	SSG	-	-	-	500?	-	-
1985-S27	2446088.89	1985 Jan 23 0926:32	Black Brant X	-	NASA 35.009UE	COPE	-	-	-	SSG	-	-	-	769	-	-
1985-S38	2446106.59	1985 Feb 10 0211	Terrier Malemute	-	NASA 29.15UE	COPE/ARCS 3	-	-	-	SSG	-	-	-	406	-	-
1985-S39	2446106.59	1985 Feb 10 0213	Black Brant X	-	NASA 35.012UE	COPE/TOPAZ I	-	-	-	SSG	-	-	-	816	-	-
1985-S41	2446111.57	1985 Feb 15 0145:15	Black Brant IXB	-	AAF-IXB-3	WATERHOLE 4	-	-	-	FC	-	-	-	302	-	-
1985-S42	2446111.73	1985 Feb 15 0525:11	Black Brant XB	-	AAF-XB-01	MARIE	-	-	-	FC	-	-	-	979	-	-
1985-S57	2446139.59	1985 Mar 15 0205:52	Black Brant IX	-	GL A21.426	COPE/PIIE	-	-	-	SSG	-	-	-	429	-	-
1985-S100	2446261.13	1985 Jul 14 1505:00	Terrier Malemute	-	Sandia 497-013	ACE I	-	-	-	KAU	LC41	-	-	497	-	-
1985-S122	2446336.14	1985 Sep 27 1520:00	Terrier Malemute	-	Sandia 497-014	ACE II	-	-	-	KAU	LC41	-	-	497	-	-
1985-S128	2446349.14	1985 Oct 10 1525:00	Terrier Malemute	-	Sandia 497-015	ACE III	-	-	-	KAU	LC41	-	-	479	-	-
1985-S136	2446380.29	1985 Nov 10 1856:05	Black Brant IX	-	NASA 36.05IE	Ferdinand 62/MAIMIK	-	-	-	AND	-	-	-	381	-	-
1985-S148	2446410.16	1985 Dec 10 1550:00	Terrier Malemute	-	Sandia 497-016	ACE IV	-	-	-	KAU	LC41	-	-	486	-	-
1985-S142	2446413.80	1985 Dec 14 0716:42	Black Brant IXB	-	NASA 36.09UE	CHARGE 2 (TPE-4)	-	-	-	WS	LC36	-	-	261	-	-
1985-S144	2446416.30	1985 Dec 16 1910	Black Brant IX	-	NASA 36.11UL	PACE 1	-	-	-	WS	LC36	-	-	251	-	-
1986-S17	2446449.26	1986 Jan 18 1813:00	Black Brant X	-	NASA 35.010CE	CENTAUR 2	-	-	-	AND	-	-	-	676	-	-
1986-S24	2446486.00	1986 Feb 24 1153:30	Black Brant IX	-	NASA 36.10DL	NRL UV Schmidt	-	-	-	WS	LC36	-	-	312	-	-
1986-S30	2446502.95	1986 Mar 13 1054:00	Black Brant IX	-	NASA 36.17DL	NRL UV Schmidt	-	-	-	WS	LC36	-	-	312	-	-
1986-S35	2446521.85	1986 Apr 1 0817	Black Brant X	-	NASA 35.015GE	-	-	-	-	PF	-	-	-	912	-	-
1986-S36	2446523.94	1986 Apr 3 1036	Terrier Malemute	-	NASA 29.24UE	-	-	-	-	PF	-	-	-	500?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1986-S38	2446533.88	1986 Apr 13 0914:01	Black Brant X	-	NASA 35.016GE	-	-	-	-	PF	-	-	-	977	-	-
1986-S41	2446542.87	1986 Apr 22 0849	Black Brant X	-	NASA 35.013UG	-	-	-	-	WI	-	-	-	900?	-	-
1986-S46	2446563.82	1986 May 13 0740	Black Brant X	-	NASA 35.014UE	CVE-1 Ba	-	-	-	WI	-	-	-	430?	-	-
1986-S117	2446780.32	1986 Dec 15 1935	Black Brant IX	-	NASA 36.19GU	GSFC Solar UVI 3	-	-	-	WS	LC36	-	-	322	-	-
1987-S46	2446824.30	1987 Jan 28 1915	Black Brant IX	-	NASA 36.16UL	PACE 2	-	-	-	WS	LC36	-	-	255	-	-
1987-S47	2446826.90	1987 Jan 31 0932	Black Brant IX	-	NASA 36.04UE	SCEX II	-	-	-	PF	-	-	-	211	-	-
1987-S56	2446853.49	1987 Feb 26 2349:10	Black Brant IX	-	GL A21.628	COPE II/POLAR ARCS	-	-	-	SSG	-	-	-	387	-	-
1987-S57	2446853.49	1987 Feb 26 2343:10	Terrier Malemute	-	NASA 29.25UE	COPE II	-	-	-	SSG	-	-	-	500?	-	-
1987-S58	2446859.77	1987 Mar 5 0632:40	Terrier Malemute	-	NASA 29.26UE	COPE II	-	-	-	SSG	-	-	-	500?	-	-
1987-A05	2446861.78	1987 Mar 7 0639:20	Black Brant X	-	NASA 35.018UE	-	-	-	-	PF	-	-	-	10?	-	-
1987-S62	2446873.92	1987 Mar 19 1000:00	Black Brant IXB	-	MASER 1	SSC MASER 1	-	-	-	ESR	MRL	-	-	295	-	-
1987-S74	2446885.70	1987 Mar 31 0447:00	Black Brant IX	-	NASA 36.14UE	COPE II Main	-	-	-	SSG	-	-	-	436	-	-
1987-S125	2447007.66	1987 Jul 31 0353:49	Black Brant IX	-	NASA 36.13UE	WIPP	-	-	-	WI	-	-	-	300?	-	-
1987-S128	2447023.23	1987 Aug 15 1725	Black Brant IX	-	NASA 36.021CS	AS&E SAIP XRT	-	-	-	WS	LC36	-	-	300?	-	-
1987-S174	2447114.09	1987 Nov 14 1410	Black Brant IX	-	NASA 36.030UH	-	-	-	-	WOO	LA2 N	-	-	300?	-	-
1987-S176	2447118.05	1987 Nov 18 1306	Black Brant IX	-	NASA 36.023UG	FUVS 1	-	-	-	WOO	LA2 N	-	-	300?	-	-
1987-S177	2447134.21	1987 Dec 4 1705	Black Brant IX	-	NASA 36.024UH	CAL XR 15	-	-	-	WOO	LA2 N	-	-	300?	-	-
1987-S179	2447141.26	1987 Dec 11 1815	Black Brant IX	-	NASA 36.38CS	AS&E SAIP XRT	-	-	-	WS	LC36	-	-	300?	-	-
1987-S180	2447141.28	1987 Dec 11 1845	Black Brant IX	-	NASA 36.20DS	HRTS 5	-	-	-	WS	LC36	-	-	300?	-	-
1987-S181	2447143.57	1987 Dec 14 0145	Black Brant X	-	GL A22.703	SPEAR I	-	-	-	WI	LA2	-	-	370	-	-
1988-S45	2447179.86	1988 Jan 19 0840:04	Black Brant X	-	NASA 35.017UE	TOPAZ II	-	-	-	PF	-	-	-	926	-	-
1988-S46	2447184.27	1988 Jan 23 1830	Black Brant IX	-	NASA 36.29GU	-	-	-	-	WS	LC36	-	-	300?	-	-
1988-S50	2447190.29	1988 Jan 29 1903:41	Black Brant IX	-	NASA 36.39UE	ERIC II	-	-	-	WI	-	-	-	300?	-	-
1988-S52	2447200.85	1988 Feb 9 0816:49	Black Brant IX	-	NASA 36.15UE	ECHO VII	-	-	-	PF	-	-	-	292	-	-
1988-S59	2447208.07	1988 Feb 16 1334	Black Brant IX	-	NASA 36.022GH	SXS	-	-	-	WOO	LA2 N	-	-	300?	-	-
1988-S62	2447220.01	1988 Feb 28 1210	Black Brant IX	-	NASA 36.032UH	SNR 87a	-	-	-	WOO	LA2 N	-	-	300?	-	-
1988-S63	2447220.86	1988 Feb 29 0834:30	Black Brant IX	-	MASER 2	SSC MASER 2	-	-	-	ESR	MRL	-	-	318	-	-
1988-S64	2447224.79	1988 Mar 4 0655	Black Brant X	-	NASA 35.023GE	UCB Alaska '88	-	-	-	PF	-	-	-	1000	-	-
1988-S66	2447234.07	1988 Mar 13 1334	Black Brant IX	-	NASA 36.027UG	FUVS (SNR 87a)	-	-	-	WOO	LA2 N	-	-	300?	-	-
1988-S67	2447238.35	1988 Mar 17 2025	Black Brant IX	-	NASA 36.36US	EUV-ML 1	-	-	-	WS	LC36	-	-	300?	-	-
1988-S100	2447336.24	1988 Jun 23 1740	Black Brant IX	-	NASA 36.35US	NIXT	-	-	-	WS	LC36	-	-	300?	-	-
1988-S116	2447415.22	1988 Sep 10 1710:12	Black Brant IX	-	NASA 36.46UE	ERIC III	-	-	-	WI	-	-	-	300?	-	-
1988-S117	2447415.81	1988 Sep 11 0730	Black Brant IX	-	NASA 36.31UG	IMAPS 3	-	-	-	WS	LC36	-	-	291	-	-
1988-S129	2447459.25	1988 Oct 24 1803:01	Black Brant IX	-	NASA 36.41UL	SOLLY	-	-	-	WS	LC36	-	-	300?	-	-
1988-S136	2447486.27	1988 Nov 20 1830	Black Brant IX	-	NASA 36.44DS	HRTS 6/ASL-San Marco	-	-	-	WS	LC36	-	-	300?	-	-
1988-S147	2447512.96	1988 Dec 17 1101	Black Brant X	-	NASA 35.024UE	CUSP	-	-	-	AND	-	-	-	515	-	-
1989-A01	2447535.84	1989 Jan 9 0810	Black Brant IX	-	NASA 36.45UG	JHU FOT 8 (Io)	-	-	-	WS	LC36	-	-	10?	-	-
1989-S28	2447544.29	1989 Jan 17 1900:03	Black Brant IX	-	NASA 36.47GU	-	-	-	-	WS	LC36	-	-	300?	-	-
1989-S33	2447557.39	1989 Jan 30 2114:40	Black Brant XB	-	AAF-XB-02	OEDIPUS A	-	-	-	AND	-	-	-	512	-	-
1989-S49	2447615.15	1989 Mar 29 1541	Black Brant 9CM1	-	Starfire 1/F1	CONSORT 1	-	-	-	WS	LC36 L-630	-	-	308	-	-
1989-S50	2447619.60	1989 Apr 3 0227	Terrier Malemute	-	NASA 29.27UE	RED AIR 1	-	-	-	WI	-	-	-	380	-	-
1989-S51	2447625.69	1989 Apr 9 0437:39	Black Brant XB	-	NASA 35.022GE	Ba+	-	-	-	FC	-	-	-	700?	-	-
1989-S52	2447626.85	1989 Apr 10 0821:00	Black Brant IX	-	MASER 3	SSC MASER 3	-	-	-	ESR	MRL	-	-	297	-	-
1989-S53	2447627.65	1989 Apr 11 0336	Black Brant XB	-	NASA 35.021GE	Ba+	-	-	-	FC	-	-	-	900?	-	-
1989-S56	2447650.57	1989 May 4 0142:10	Black Brant X	-	NASA 35.019UE	CVE-2 (CRIT-2)	-	-	-	WI	-	-	-	430	-	-
1989-S57	2447652.24	1989 May 5 1745	Black Brant IX	-	NASA 36.25GS	SERTS-89 (SERTS-3)	-	-	-	WS	LC36	-	-	320	-	-
1989-S62	2447698.29	1989 Jun 20 1900	Black Brant IX	-	NASA 36.54US	EUV-ML 2/NCAR/CU-2	-	-	-	WS	LC36	-	-	300?	-	-
1989-S63	2447704.75	1989 Jun 27 0600:01	Black Brant IX	-	NASA 36.43GG	MAMA UV Telescope	-	-	-	WS	LC36	-	-	300?	-	-
1989-S79	2447738.50	1989 Jul 31	Black Brant X	-	SDIO Black Star 3	-	-	-	-	WI	-	-	-	900?	-	-
1989-S80	2447761.95	1989 Aug 23 1042	Black Brant X	-	SDIO Black Star 4	-	-	-	-	WI	-	-	-	900?	-	-
1989-S83	2447762.25	1989 Aug 23 1805	Black Brant IX	-	NASA 36.59UL	EUV Spectrometer	-	-	-	WS	LC36	-	-	333	-	-
1989-S88	2447773.50	1989 Sep 4	Terrier Malemute	-	SDIO Starmate	-	-	-	-	KAU	LC41?	-	-	724	-	-
1989-S90	2447780.50	1989 Sep 11	Terrier Malemute	-	SDIO Starmate	-	-	-	-	KAU	LC41?	-	-	724	-	-
1989-S91	2447781.19	1989 Sep 11 1636	Black Brant IX	-	NASA 36.52US	Corona Tel 1	-	-	-	WS	LC36	-	-	300?	-	-
1989-S102	2447822.58	1989 Oct 23 0158	Black Brant IX	-	NASA 36.37DE	NICARE 1	-	-	-	WI	-	-	-	310	-	-
1989-A11	2447846.16	1989 Nov 15 1545	Black Brant 9CM1	-	Starfire 1/F2	CONSORT 2	-	-	-	WS	LC36 L-630	-	-	10	-	-
1990-S30	2447915.32	1990 Jan 23 1940	Black Brant IX	-	NASA 36.33UL	PACE	-	-	-	WS	LC36	-	-	300?	-	-
1990-S45	2447945.81	1990 Feb 23 0731:25	Black Brant 10CM1	-	NASA 35.20UE	ARCS 4	-	-	-	PF	-	-	-	586	-	-
1990-S60	2447960.25	1990 Mar 9 1800	Black Brant IX	-	NASA 36.66GU	-	-	-	-	WS	LC36	-	-	300?	-	-
1990-S64	2447967.69	1990 Mar 17 0430	Black Brant IX	-	NASA 36.34UH	-	-	-	-	WS	LC36	-	-	300?	-	-
1990-S73	2447979.89	1990 Mar 29 0926	Terrier Malemute	-	SDIO Laser Target	Firefly 1	-	-	-	WI	-	-	-	462	-	-
1990-S76	2447979.84	1990 Mar 29 0807:00	Black Brant IX	-	MASER 4	SSC MASER 4	-	-	-	ESR	MRL	-	-	317	-	-
1990-S77	2447981.21	1990 Mar 30 1700	Black Brant IX	-	NASA 36.53DE	-	-	-	-	WS	LC36	-	-	300?	-	-
1990-S78	2447987.07	1990 Apr 5 1347	Black Brant X	-	NASA 35.28CE	WISP 1	-	-	-	WI	-	-	-	586	-	-
1990-S79	2447990.87	1990 Apr 9 0850	Black Brant IX	-	NASA 36.67UG	FUVS	-	-	-	WS	LC36	-	-	300?	-	-
1990-S80	2447998.75	1990 Apr 17 0600	Black Brant IX	-	NASA 36.063UG	DUVE	-	-	-	WS	LC36	-	-	300?	-	-
1990-S81	2448002.93	1990 Apr 21 1015	Black Brant IX	-	NASA 36.73UG	JHU FOT 9 (C/Austin)	-	-	-	WS	LC36	-	-	300?	-	-
1990-S82	2448006.73	1990 Apr 25 0532	Terrier Malemute	-	SDIO BSUV	Bow Shock 1	-	-	-	WI	-	-	-	721	-	-
1990-S84	2448009.91	1990 Apr 28 0945	Black Brant IX	-	NASA 36.74UG	FUVS (C/Austin)	-	-	-	WS	LC36	-	-	300?	-	-
1990-S94	2448028.07	1990 May 16 1340	Black Brant 9CM1	-	Starfire 1/F3	CONSORT 3	-	-	-	WS	LC36 L-630	-	-	304	-	-
1990-S100	2448044.10	1990 Jun 1 1425	Black Brant IX	-	NASA 36.69UL	-	-	-	-	WS	LC36	-	-	300?	-	-
1990-S106	2448102.91	1990 Jul 30 0948:44	Terrier Malemute	-	NASA 29.28UE	EQUIS Spread F	-	-	-	KMR	RN	-	-	480?	-	-
1990-S113	2448105.92	1990 Aug 2 1007:09	Terrier Malemute	-	NASA 29.29UE	EQUIS Spread F	-	-	-	KMR	RN	-	-	480?	-	-
1990-S122	2448125.84	1990 Aug 22 0816	Black Brant IX	-	NASA 36.56DE	NICARE 2	-	-	-	KMR	RN	-	-	350?	-	-
1990-S124	2448128.79	1990 Aug 25 0704	Black Brant 10CM1	-	SDI BP-1	SPFE 1 (LACE Target)	-	-	-	WI	-	-	-	200	-	-
1990-S131	2448139.29	1990 Sep 4 1904	Black Brant IX	-	NASA 36.72UL	EUV Spectrometer	-	-	-	WS	LC36	-	-	326	-	-
1990-S142	2448184.50	1990 Oct 20	Terrier Malemute	-	SDIO	Firefly 2	-	-	-	WI	-	-	-	456	-	-
1990-S156	2448217.26	1990 Nov 21 1815	Black Brant IX	-	NASA 36.058DS	AS&E SIAP XRT	-	-	-	WS	LC36	-	-	300?	-	-
1990-S157	2448217.28	1990 Nov 21 1840	Black Brant IX	-	NASA 36.060DS	HRTS 7?	-	-	-	WS	LC36	-	-	300?	-	-
1991-S48	2448282.77	1991 Jan 26 0625	Black Brant IX	-	NASA 36.057UG	JHU FOT 10 (Io)	-	-	-	WS	LC36	-	-	300?	-	-
1991-S77	2448310.32	1991 Feb 22 1946	Black Brant IX	-	NASA 36.070US	Corona Tel 2	-	-	-	WS	LC36	-	-	300?	-	-
1991-A01	2448321.30	1991 Mar 5 1919	Terrier	-	NASA 12.44WT	-	-	-	-	WI	-	-	-	20?	-	-
1991-S87	2448333.93	1991 Mar 18 1015	Black Brant IX	-	NASA 36.077UH	Colorado SXT	-	-	-	WS	LC36	-	-	300?	-	-
1991-S90	2448338.79	1991 Mar 23 0700	Black Brant IX	-	NASA 36.068GG	MAMA UV Telescope	-	-	-	WS	LC36	-	-	300?	-	-
1991-S91	2448345.60	1991 Mar 30 0227	Black Brant IX	-	NASA 36.078UL	-	-	-	-	WS	LC36	-	-	300?	-	-
1991-S97	2448363.82	1991 Apr 17 0740	Black Brant 10CM1	-	SDI BP-2	SPFE 2 (LACE Target)	-	-	-	WI	-	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1991-S103	2448380.67	1991 May 4 0410	Black Brant IX	-	NASA 36.062UL	UM JASPR I	-	-	-	WS	LC36	-	-	300?	-	-
1991-S104	2448384.25	1991 May 7 1805	Black Brant IX	-	NASA 36.086GS	SERTS-91 (04)	-	-	-	WS	LC36	-	-	300?	-	-
1991-S109	2448390.29	1991 May 13 1903	Black Brant IX	-	NASA 36.049US	MSSTA I	-	-	-	WS	LC36	-	-	230	-	-
1991-S123	2448449.23	1991 Jul 11 1725	Black Brant IX	-	NASA 36.087US	Corona Tel 3	-	-	-	WS	LC36	-	-	300?	-	-
1991-S171	2448577.15	1991 Nov 16 1530	Black Brant 9CM1	-	Starfire 1/F4	CONSORT 4	-	-	-	WS	LC36 L-630	-	-	298	-	-
1992-S11	2448632.65	1992 Jan 11 0340	Black Brant IX	-	NASA 36.079UG	EUVS	-	-	-	WS	LC36	-	-	248	-	-
1992-S13	2448645.30	1992 Jan 23 1919	Black Brant IX	-	NASA 36.075UE	-	-	-	-	WS	LC36	-	-	300?	-	-
1992-S15	2448653.00	1992 Jan 31 1155	Black Brant IX	-	NASA 36.096UH	Colorado SXT	-	-	-	WS	LC36	-	-	300?	-	-
1992-S22	2448674.64	1992 Feb 22 0315	Black Brant IX	-	NASA 36.089UG	-	-	-	-	WS	LC36	-	-	300?	-	-
1992-S32	2448701.17	1992 Mar 19 1605	Black Brant IX	-	CSAR 1	CSAR 1	-	-	-	WS	LC36	-	-	226	-	-
1992-S103	2448701.17	1992 Mar 19 1610	Black Brant IX	-	NASA 36.088DE	HIRAAS 2	-	-	-	WS	LC36	-	-	300	-	-
1992-S37	2448721.94	1992 Apr 9 1040	Black Brant 9BM1	-	MASER 5	SSC MASER 5	-	-	-	ESR	S	-	-	317	-	-
1992-S41	2448755.10	1992 May 12 1426	Black Brant IX	-	NASA 36.048CS	SPARTAN SPDE	-	-	-	WS	LC36	-	-	300?	-	-
1992-S43	2448766.50	1992 May 24	Terrier Malemute	-	-	CDX (LWIS)	-	-	-	KAU	LC41?	-	-	290?	-	-
1992-S46	2448772.84	1992 May 30 0811	Black Brant IX	-	NASA 36.65DE	EL COQUI AA-4/IFH	-	-	-	TORT	-	-	-	385	-	-
1992-S49	2448779.86	1992 Jun 6 0837:31	Black Brant IX	-	NASA 36.64CE	EL COQUI AA-3B	-	-	-	TORT	-	-	-	368	-	-
1992-S50	2448782.73	1992 Jun 9 0532	Black Brant IX	-	NASA 36.71UE	EL COQUI NC-1	-	-	-	TORT	-	-	-	359	-	-
1992-S61	2448805.88	1992 Jul 2 0901:15	Black Brant IX	-	NASA 36.82DE	EL COQUI AA-1	-	-	-	TORT	-	-	-	431	-	-
1992-S63	2448807.87	1992 Jul 4 0858	Black Brant IX	-	NASA 36.83DE	EL COQUI AA-7	-	-	-	TORT	-	-	-	421	-	-
1992-S64	2448815.88	1992 Jul 12 0902:00	Black Brant IX	-	NASA 36.81CE	EL COQUI AA-2	-	-	-	TORT	-	-	-	368	-	-
1992-S76	2448859.19	1992 Aug 24 1630	Black Brant IX	-	NASA 36.090DS	HRTS 8	-	-	-	WS	LC36	-	-	249	-	-
1992-S84	2448876.10	1992 Sep 10 1430	Black Brant 9CM1	-	Starfire 1/F5	CONSORT 5	-	-	-	WS	LC36 L-630	-	-	235	-	-
1992-A14	2448889.50	1992 Sep 24	Terrier LEAP	-	Rockwell LEAP	FTV-1 (Dummy LEAP)	-	-	CG-20	PM	-	-	-	30?	-	-
1992-S90	2448923.27	1992 Oct 27 1830	Black Brant IX	-	NASA 36.098UE	NCAR/CU-3	-	-	-	WS	LC36	-	-	298	-	-
1992-S100	2448965.50	1992 Dec 9	Black Brant 9CM1	-	-	VERT (POIVRE)	-	-	-	CEL	CE	-	-	300?	-	-
1992-S102	2448971.62	1992 Dec 15 0300	Black Brant IX	-	NASA 36.085UG	JHU FOT 11 (HUT Cal)	-	-	-	WS	LC36	-	-	302	-	-
1993-S13	2449027.33	1993 Feb 8 2000	Black Brant IX	-	NASA 36.100NS	-	-	-	-	WS	LC36	-	-	289	-	-
1993-S15	2449038.25	1993 Feb 19 1800?	Black Brant 9CM1	-	Starfire 1/F6	CONSORT 6	-	-	-	WS	LC36 L-630	-	-	301	-	-
1993-S23	2449062.59	1993 Mar 16 0212:41	Black Brant 9CM1	-	-	SPEAR 3	-	-	-	WI	LA2	-	-	290	-	-
1993-S27	2449090.22	1993 Apr 12 1718	Black Brant IX	-	NASA 36.099US	NIXT	-	-	-	WS	LC36	-	-	226	-	-
1993-S28	2449094.89	1993 Apr 17 0915	Black Brant IX	-	NASA 36.095UH	Colorado SXT	-	-	-	WS	LC36	-	-	254	-	-
1993-S42	2449154.69	1993 Jun 16 0439	Black Brant IX	-	NASA 36.101UL	-	-	-	-	WS	LC36	-	-	253	-	-
1993-S48	2449190.85	1993 Jul 22 0825	Black Brant X	-	NASA 35.29UE	WISP 2	-	-	-	WI	-	-	-	900?	-	-
1993-S50	2449195.50	1993 Jul 27	Black Brant 9CM1	-	-	BLANC	-	-	-	CEL	CE	-	-	300?	-	-
1993-S54	2449217.25	1993 Aug 17 1800	Black Brant IX	-	NASA 36.105GS	SERTS-93 (05)	-	-	-	WS	LC36	-	-	312	-	-
1993-A13	2449257.50	1993 Sep 27	Terrier LEAP	-	Rockwell LEAP	FTV-2 LEAP Mockup	-	-	CG-29	PM	-	-	-	30?	-	-
1993-S62	2449265.24	1993 Oct 4 1745	Black Brant IX	-	NASA 36.107UE	NCAR/CU-4	-	-	-	WS	LC36	-	-	300?	-	-
1994-S10	2449393.49	1994 Feb 9 2343	Black Brant IX	-	NASA 36.110IE	PULSAUR-2 (F-92)	-	-	-	AND	-	-	-	300?	-	-
1994-S11	2449393.73	1994 Feb 10 0535	Black Brant 9CM1	-	NASA 36.097IE	GEMINI	-	-	-	WS	-	-	-	245	-	-
1994-S19	2449412.50	1994 Mar 1	Black Brant 9CM1	-	-	NOIR	-	-	-	CEL	CE	-	-	300?	-	-
1994-S23	2449422.79	1994 Mar 11 0650:42	Black Brant IX	-	NASA 36.114DE	HIRAAS 3	-	-	-	PF	-	-	-	308	-	-
1994-S28	2449448.27	1994 Apr 5 1822	Terrier Improved Orion	-	NASA 12.046WT	-	-	-	-	WI	-	-	-	127	-	-
1994-S30	2449460.69	1994 Apr 18 0430	Black Brant IX	-	NASA 36.109UG	JHU FOT 11R	-	-	-	WS	LC36	-	-	300?	-	-
1994-S31	2449468.36	1994 Apr 25 2045	Black Brant IX	-	NASA 36.123CS	-	-	-	-	WS	LC36	-	-	300?	-	-
1994-S49	2449553.75	1994 Jul 20 0553:02	Black Brant IX	-	NASA 36.121CL	EUVS Jupiter	-	-	-	WS	LC36	-	-	163	-	-
1994-S55	2449580.64	1994 Aug 16 0325:02	Black Brant IX	-	NASA 36.117CL	EUVS Venus	-	-	-	WS	LC36	-	-	300?	-	-
1994-S74	2449630.29	1994 Oct 4 1858:30	Black Brant IX	-	NASA 36.084UE	PIMS	-	-	-	WS	LC36	-	-	300?	-	-
1994-S77	2449640.45	1994 Oct 14 2255	Black Brant X	-	NASA 35.030IE	GUARA H.Alt Spread F	-	-	-	ALCA	-	-	-	956	-	-
1994-S80	2449660.28	1994 Nov 3 1845	Black Brant IX	-	NASA 36.124AE	NCAR/CU-5	-	-	-	WS	LC36	-	-	231	-	-
1994-S81	2449660.30	1994 Nov 3 1915	Black Brant IX	-	NASA 36.091US	MSSTA II	-	-	-	WS	LC36	-	-	272	-	-
1994-S83	2449679.15	1994 Nov 22 1540	Black Brant IX	-	NASA 36.103NP	-	-	-	-	WS	LC36	-	-	300?	-	-
1994-S88	2449689.82	1994 Dec 3 0745	Black Brant IX	-	NASA 36.050UG	WISP 1	-	-	-	WS	LC36	-	-	300?	-	-
1994-S91	2449694.50	1994 Dec 8	Black Brant 9CM1	-	Starfire 1/F7	CSAR-2	-	-	-	WS	LC36 L-455	-	-	254	-	-
1994-S92	2449703.62	1994 Dec 17 0255	Black Brant IX	-	NASA 36.102UG	-	-	-	-	WS	LC36	-	-	300?	-	-
1995-A01	2449780.93	1995 Mar 4 1020	Terrier LEAP	-	Hughes LEAP	FTV-3	-	-	CG-20	AONC	-	-	-	30?	-	-
1995-S24	2449798.30	1995 Mar 21 1911:31	Black Brant IX	-	NASA 36.120UE	PIMS	-	-	-	WS	LC36	-	-	153	-	-
1995-S25	2449801.87	1995 Mar 25 0855:01	Black Brant 10CM1	-	NASA 35.031UE	-	-	-	-	PF	-	-	-	900?	-	-
1995-A02	2449804.50	1995 Mar 28	Terrier LEAP	-	Hughes LEAP	FTV-4	-	-	CG-20	AONC	-	-	-	30?	-	-
1995-S28	2449808.90	1995 Apr 1 0933	Black Brant IX	-	NASA 36.104UL	-	-	-	-	WS	LC36	-	-	156	-	-
1995-S32	2449822.92	1995 Apr 15 1007:42	Black Brant IX	-	NASA 36.137CL	EUVS Spica Occ.	-	-	-	WS	LC36	-	-	260	-	-
1995-S33	2449826.25	1995 Apr 18 1800	Black Brant IX	-	NASA 36.108DS	-	-	-	-	WS	LC36	-	-	247	-	-
1995-S38	2449853.25	1995 May 15 1800	Black Brant IX	-	NASA 36.123GS	SERTS-95 (06)	-	-	-	WS	LC36	-	-	191	-	-
1995-S39	2449859.80	1995 May 22 0705:03	Black Brant IX	-	NASA 36.092UH	-	-	-	-	WS	LC36	-	-	300?	-	-
1995-S48	2449899.25	1995 Jun 30 1800:02	Terrier Improved Orion	?	NASA 12.47WT	-	-	-	-	WI	-	-	-	300?	-	-
1995-S59	2449958.23	1995 Aug 28 1730:02	Black Brant IX	-	NASA 36.138NP	-	-	-	-	WS	LC36	-	-	300?	-	-
1995-S61	2449962.55	1995 Sep 2 0113	Black Brant IX	-	NASA 36.111UE	Thunderstorm III	-	-	-	WI	-	-	-	300?	-	-
1995-S63	2449973.25	1995 Sep 12 1805	Black Brant 9CM1	-	NASA 36.131US	-	-	-	-	WS	LC36	-	-	197	-	-
1995-S69	2450016.05	1995 Oct 25 1313	Black Brant IX	-	NASA 36.106UH	-	-	-	-	WOO	LA2 N	-	-	320?	-	-
1995-S70	2450019.25	1995 Oct 28 1800	Black Brant IX	-	NASA 36.132UG	JHU FOT 12 (30 Dor)	-	-	-	WOO	LA2 N	-	-	300	-	-
1995-S73	2450027.22	1995 Nov 5 1713	Black Brant IX	-	NASA 36.116UG	-	-	-	-	WOO	LA2 N	-	-	300?	-	-
1995-S76	2450036.21	1995 Nov 14 1704	Black Brant IX	-	NASA 36.127UG	-	-	-	-	WOO	LA2 N	-	-	300?	-	-
1995-S77	2450041.15	1995 Nov 19 1530	Black Brant IX	-	NASA 36.128UG	WISP 2	-	-	-	WOO	LA2 N	-	-	300?	-	-
1995-S78	2450042.21	1995 Nov 20 1700	Black Brant IX	-	NASA 36.126UG	-	-	-	-	WOO	LA2 N	-	-	300?	-	-
1996-S08	2450137.30	1996 Feb 23 1917:45	Black Brant IX	-	NASA 36.143UE	-	-	-	-	WS	LC36	-	-	300?	-	-
1996-S09	2450137.32	1996 Feb 23 1944	Black Brant IX	-	NASA 36.145NP	-	-	-	-	WS	LC36	-	-	300?	-	-
1996-S11	2450148.65	1996 Mar 6 0335	Black Brant IX	-	NASA 36.122UG	EUVS	-	-	-	WS	LC36	-	-	300?	-	-
1996-S15	2450177.17	1996 Apr 3 1559	Black Brant 9CM1	-	Starfire 1/F8	CONQUEST 1	-	-	-	WS	LC36	-	-	281	-	-
1996-S29	2450251.74	1996 Jun 17 0550:01	Black Brant IX	-	NASA 36.134UR	-	-	-	-	WS	LC36	-	-	300?	-	-
1996-S30	2450255.11	1996 Jun 20 1440:01	Black Brant IX	-	NASA 36.118NP	DARTFire 1	-	-	-	WS	LC36	-	-	300?	-	-
1996-S33	2450261.29	1996 Jun 26 1900:00	Black Brant IX	-	NASA 36.147US	USC-1 SOHO Cal	-	-	-	WS	LC36	-	-	309	-	-
1996-S38	2450278.80	1996 Jul 14 0715:01	Black Brant 9CM1	-	NASA 36.113UG	NUVIEWS 1	-	-	-	WS	LC36	-	-	300?	-	-
1996-S47	2450290.90	1996 Jul 26 0940:00	Black Brant 9CM1	-	NASA 36.148CL	EUVS Venus	-	-	-	WS	LC36	-	-	300?	-	-
1996-S50	2450316.17	1996 Aug 20 1600:00	Black Brant 9CM1	-	NASA 36.130NS	-	-	-	-	WS	LC36	-	-	300?	-	-
1996-S63	2450373.17	1996 Oct 16 1602:00	Black Brant IX	-	NASA 36.154NP	DARTFire 2	-	-	-	WS	LC36	-	-	300?	-	-
1996-S64	2450377.62	1996 Oct 21 0300:00	Black Brant IX	-	NASA 36.115UG	JHU FPT 1 (Jupiter)	-	-	-	WS	LC36	-	-	300?	-	-
1996-S67	2450385.65	1996 Oct 29 0330:00	Black Brant IX	-	NASA 36.149UL	-	-	-	-	WS	LC36	-	-	300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1996-S70	2450401.27	1996 Nov 13 1830:00	Black Brant IX	-	NASA 36.142GS	SERTS-96 (07)	-	-	-	WS	LC36	-	-	300?	-	-
1996-S71	2450405.06	1996 Nov 17 1330:00	Terrier Improved Orion	-	NASA 41.005GP	-	-	-	-	WS	LC36	-	-	150?	-	-
1997-S21	2450506.33	1997 Feb 26 2000:00	Black Brant IX	-	NASA 36.161NP	DARTFire 3	-	-	-	WS	LC36	-	-	300?	-	-
1997-S25	2450520.93	1997 Mar 13 1020:31	Black Brant IX	-	NASA 36.139UE	-	-	-	-	PF	-	-	-	300?	-	-
1997-S29	2450532.64	1997 Mar 25 0315	Black Brant IX	-	NASA 36.158UL	Hale-Bopp	-	-	-	WS	LC36	-	-	282	-	-
1997-S30	2450537.64	1997 Mar 30 0325	Black Brant IX	-	NASA 36.155CL	EUVS	-	-	-	WS	LC36	-	-	300?	-	-
1997-S31	2450544.66	1997 Apr 6 0345	Black Brant 9CM1	-	NASA 36.156UG	JHU FOT 13	-	-	-	WS	LC36	-	-	300?	-	-
1997-S32	2450546.66	1997 Apr 8 0355	Black Brant 9CM1	-	NASA 36.157UL	WISP 3	-	-	-	WS	LC36	-	-	375?	-	-
1997-S36	2450570.81	1997 May 2 0730	Black Brant IX	-	NASA 36.093UH	-	-	-	-	WS	LC36	-	-	300?	-	-
1997-S37	2450576.80	1997 May 8 0710	Black Brant IX	-	NASA 36.133UG	SPINR 1	-	-	-	WS	LC36	-	-	300?	-	-
1997-S39	2450584.30	1997 May 15 1916	Black Brant IX	-	NASA 36.135AE	NCAR/CU-6 MXUVI	-	-	-	WS	LC36	-	-	300?	-	-
1997-S41	2450592.41	1997 May 23 2144	Terrier Orion	-	NASA 41.13DT	MSX?	-	-	-	WI	-	-	-	150?	-	-
1997-S42	2450597.71	1997 May 29 0456	Black Brant IX	-	NASA 36.163UR	NITE 1	-	-	-	WS	LC36	-	-	345	-	-
1997-A31	2450669.06	1997 Aug 8 1324:30	Terrier Improved Orion	-	NASA 41.11UE	COORS/ROCKI (CRISTA)	-	-	-	WI	-	-	-	20?	-	-
1997-S53	2450672.26	1997 Aug 11 1818:00	Black Brant IX	-	NASA 36.164US	USC-2 SOHO Cal	-	-	-	WS	-	-	-	307	-	-
1997-S54	2450693.79	1997 Sep 2 0700	Terrier Improved Orion	-	NASA 41.14DT	DUNDEE 1	-	-	-	ANNA	-	-	-	300?	-	-
1997-S55	2450696.67	1997 Sep 5 0400	Terrier Improved Orion	-	NASA 41.15DT	DUNDEE 2	-	-	-	ANNA	-	-	-	300?	-	-
1997-S57	2450702.11	1997 Sep 10 1440	Black Brant IX	-	NASA 36.165NP	-	-	-	-	WS	-	-	-	300?	-	-
1997-S58	2450702.13	1997 Sep 10 1510	Black Brant IX	-	NASA 36.169NM	DARTFire 4	-	-	-	WS	-	-	-	300?	-	-
1997-S56	2450701.58	1997 Sep 10 0200	Terrier Improved Orion	-	NASA 41.16DT	DUNDEE 3	-	-	-	ANNA	-	-	-	300?	-	-
1997-S59	2450703.34	1997 Sep 11 2015:30	Terrier Improved Orion	-	NASA 41.17DT	DUNDEE 4 (MSX)	-	-	-	ANNA	-	-	-	300?	-	-
1997-S61	2450711.04	1997 Sep 19 1300:00	Black Brant IX	-	NASA 36.144UE	-	-	-	-	WS	-	-	-	300?	-	-
1997-S64	2450722.34	1997 Sep 30 2010:00	Black Brant IX	-	NASA 36.140DS	HRTS 10	-	-	-	WS	LC36	-	-	300?	-	-
1997-S70	2450738.29	1997 Oct 16 1900:00	Black Brant IX	-	NASA 36.129DS	EIT-CALROC	-	-	-	WS	-	-	-	350	-	-
1997-S72	2450758.33	1997 Nov 5 2002:00	Terrier Improved Orion	-	NASA 41.04IE	-	-	-	-	AND	-	-	-	120	-	-
1997-S74	2450766.71	1997 Nov 14 0500:00	Black Brant IX	-	NASA 36.080UG	SCARI 1	-	-	-	WS	-	-	-	300?	-	-
1997-S75	2450771.32	1997 Nov 18 1935:00	Black Brant IX	-	NASA 36.167GS	SERTS-97 (08)	-	-	-	WS	LC36	-	-	300?	-	-
1997-S76	2450784.86	1997 Dec 2 0842:00	Black Brant IX	-	NASA 36.153IE	-	-	-	-	SVAL	-	-	-	433	-	-
1997-S77	2450785.88	1997 Dec 3 0906:00	Black Brant IX	-	NASA 36.152IE	-	-	-	-	SVAL	-	-	-	446	-	-
1998-S22	2450869.83	1998 Feb 25 0750:00	Terrier Improved Orion	-	NASA 41.08UE	EDDY	-	-	-	TORT	-	-	-	128	-	-
1998-S30	2450884.49	1998 Mar 11 2339:00	Black Brant IX	-	NASA 36.159UE	Coqui Dos LaTuR	-	-	-	TORT	-	-	-	375?	-	-
1998-S37	2450921.67	1998 Apr 18 0400	Black Brant IX	-	NASA 36.177UG	SCARI 2	-	-	-	WS	-	-	-	300?	-	-
1998-S38	2450921.81	1998 Apr 18 0730	Black Brant IX	-	NASA 36.160UG	-	-	-	-	WS	-	-	-	300?	-	-
1998-S40	2450932.01	1998 Apr 28 1210:00	Black Brant IXB	-	-	ACTIVE	-	-	-	FC	-	-	-	315	-	-
1998-S44	2450955.77	1998 May 22 0622:00	Black Brant IX	-	NASA 36.175UR	NITE 2	-	-	-	WS	-	-	-	337	-	-
1998-S71	2450994.50	1998 Jul	SM-2	-	Aegis TMT-1	RIMPAC 98	-	-	-	KAU	-	-	-	80?	-	-
1998-S50	2451040.73	1998 Aug 15 0530	Black Brant IX	-	NASA 36.176UH	EEV CCD	-	-	-	WS	-	-	-	300?	-	-
1998-S54	2451075.12	1998 Sep 18 1500	Black Brant IX	-	NASA 36.150NP	SOAREX-1 Hypersonic	-	-	-	WS	LC36	-	-	314	-	-
1998-S60	2451120.26	1998 Nov 2 1820	Black Brant IX	-	NASA 36.171CS	SOPHIE (NCAR/CU-7)	-	-	-	WS	-	-	-	350	-	-
1998-S72	2451135.50	1998 Nov 18	SM-2	-	Aegis TMT-2	LINEBACKER	-	-	-	KAU	-	-	-	87?	-	-
1998-S62	2451136.15	1998 Nov 18 1540	Black Brant IX	-	NASA 36.178NM	-	-	-	-	WS	-	-	-	300?	-	-
1999-S09	2451220.78	1999 Feb 11 0645:31	Black Brant X	-	NASA 35.032UE	ENSTROPHY	-	-	-	PF	-	-	-	1071	-	-
1999-S10	2451229.70	1999 Feb 20 0445:00	Black Brant IX	-	NASA 36.180UG	SPINR 2	-	-	-	WS	-	-	-	300?	-	-
1999-S24	2451280.77	1999 Apr 12 0635:00	Black Brant 9CM1	-	NASA 36.172UG	WISP 4	-	-	-	WS	-	-	-	375?	-	-
1999-S31	2451306.33	1999 May 7 2000:06	Black Brant IX	-	NASA 36.141DS	VAULT I	-	-	-	WS	-	-	-	300?	-	-
1999-S37	2451343.82	1999 Jun 14 0740	Black Brant 9CM1	-	NASA 36.136UG	JHU FOT 14	-	-	-	WS	-	-	-	300?	-	-
1999-S38	2451354.21	1999 Jun 24 1700	Black Brant IX	-	NASA 36.182GS	SERTS-99 (09)	-	-	-	WS	-	-	-	300?	-	-
1999-M01	2451360.50	1999 Jul 1	SM-2	-	Aegis TMT-3	Slugger	-	-	-	KAU	-	-	-	72	-	-
1999-S53	2451409.25	1999 Aug 18 1805	Black Brant 9CM1	-	NASA 36.181US	USC-3 (SOHO Cal)	-	-	-	WS	LC36	-	-	314	-	-
1999-S56	2451414.80	1999 Aug 24 0707:02	Black Brant IX	-	NASA 36.119UG	-	-	-	-	WS	-	-	-	300?	-	-
1999-S63	2451448.92	1999 Sep 27 1000:00	Black Brant IX	-	NASA 36.168UG	EOR	-	-	-	WS	-	-	-	329	-	-
1999-S80	2451530.21	1999 Dec 17 1700:00	Terrier Improved Orion	-	NASA 41.020NM	MG. Pool Boiling	-	-	-	WI	-	-	-	168	-	-
2000-S06	2451586.64	2000 Feb 12 0327:00	Black Brant 9CM1	-	NASA 36.186UG	JHU FOT 15	-	-	-	WS	-	-	-	300?	-	-
2000-A01	2451600.71	2000 Feb 26 0459:00	Black Brant IX	-	NASA 36.162DG	J-PEX 1	-	-	-	WS	-	-	-	10?	-	-
2000-S27	2451670.77	2000 May 6 0634:59	Black Brant IX	-	NASA 36.183UG	-	-	-	-	WS	-	-	-	273	-	-
2000-A03	2451703.50	2000 Jun 8	SM-2	-	Aegis TMT	PACBLITZ 00	-	-	-	KAU	-	-	-	10?	-	-
2000-A04	2451703.50	2000 Jun 8	SM-2	-	Aegis TMT	PACBLITZ 00	-	-	-	KAU	-	-	-	10?	-	-
2000-S39	2451732.11	2000 Jul 6 1441:00	Black Brant IX	-	NASA 36.166UM	-	-	-	-	WS	-	-	-	300?	-	-
2000-S40	2451732.93	2000 Jul 7 1025	Terrier Oriole	-	-	-	-	-	-	WI	-	-	-	368	-	-
2000-S45	2451752.25	2000 Jul 26 1806:00	Black Brant IX	-	NASA 36.185GS	SERTS-00 (10)	-	-	-	WS	LC36	-	-	300?	-	-
2000-S46	2451761.71	2000 Aug 5 0500:02	Black Brant IX	-	NASA 36.189UG	SPINR 3	-	-	-	WS	-	-	-	406	-	-
2000-S49	2451793.25	2000 Sep 5 1802:00	Black Brant IX	-	NASA 36.151US	-	-	-	-	WS	-	-	-	300?	-	-
2000-S59	2451831.11	2000 Oct 13 1445:02	Terrier Improved Orion	-	NASA 41.021DP	-	-	-	-	WS	-	-	-	100?	-	-
2000-S67	2451898.00	2000 Dec 19 1157	Terrier Lynx	-	NASA 12.50DP	NAWC	-	-	-	WI	-	-	-	300?	-	-
2001-S07	2451949.67	2001 Feb 9 0400:06	Black Brant 9CM1	-	NASA 36.198UG	JHU FOT 16	-	-	-	WS	-	-	-	300?	-	-
2001-S08	2451953.19	2001 Feb 12 1628:00	Black Brant IX	-	NASA 36.187NM	-	-	-	-	WS	-	-	-	300?	-	-
2001-S13	2451962.70	2001 Feb 22 0455:00	Black Brant IX	-	NASA 36.195DG	J-PEX 2	-	-	-	WS	-	-	-	300?	-	-
2001-S26	2452082.23	2001 Jun 21 1732:00	Black Brant IX	-	NASA 36.199US	TXI	-	-	-	WS	LC36	-	-	272	-	-
2001-S44	2452180.17	2001 Sep 27 1610	Terrier Lynx	-	NASA 42.01DP	-	-	-	-	KAU	-	-	-	300?	-	-
2001-S48	2452212.60	2001 Oct 30 0231	Terrier Mk 70 Orion	-	T-Orion 5A	Hyshot 1 'Hilary'	-	-	-	WOO	-	-	-	100?	-	-
2001-S53	2452249.64	2001 Dec 6 0320:00	Black Brant IX	-	NASA 36.188UL	WISP 5 comet study	-	-	-	WS	LC36	-	-	300?	-	-
2002-S07	2452314.28	2002 Feb 8 1841:30	Black Brant IX	-	NASA 36.192UE	NCAR/CU-8	-	-	-	WS	LC36	-	-	300?	-	-
2002-S29	2452395.26	2002 Apr 30 1820:10	Black Brant IX	-	NASA 36.194US	MSSTA III	-	-	-	WS	LC36	-	-	270	-	-
2002-S37	2452430.95	2002 Jun 5 1043:00	Terrier Orion	-	NASA 41.023UE	SAMPLER	-	-	-	WS	-	-	-	130?	-	-
2002-S38	2452430.97	2002 Jun 5 1113:00	Terrier Orion	-	NASA 41.022UE	SAMPLER	-	-	-	WS	-	-	-	130?	-	-
2002-S42	2452436.79	2002 Jun 11 0700:00	Black Brant IX	-	NASA 36.112UG	NUVIEWS 2	-	-	-	WS	LC36	-	-	300?	-	-
2002-S45	2452440.26	2002 Jun 14 1810:00	Black Brant IX	-	NASA 36.196DS	VAULT II (LyA loops)	-	-	-	WS	LC36	-	-	273	-	-
2002-S46	2452457.50	2002 Jul 1 2356:00	Terrier Orion	-	NASA 41.032GE	MM-MW-08 MacWAVE	-	-	-	AND	-	-	-	130	-	-
2002-S48	2452458.41	2002 Jul 2 2145:00	Terrier Lynx	-	NASA 42.02DP	PACBLITZ 02	-	-	-	KAU	-	-	-	300?	-	-
2002-S49	2452459.38	2002 Jul 3 2105:00	Terrier Lynx	-	NASA 42.03DP	PACBLITZ 02	-	-	-	KAU	-	-	-	300?	-	-
2002-S50	2452460.53	2002 Jul 5 0047:00	Terrier Orion	-	NASA 41.033GE	MM-MW-23 MacWAVE	-	-	-	AND	-	-	-	132	-	-
2002-S55	2452485.59	2002 Jul 30 0205	Terrier Mk 70 Orion	-	-	Hyshot 2 'Hans'	-	-	-	WOO	-	-	-	314	-	-
2002-S58	2452493.27	2002 Aug 6 1830:00	Black Brant IX	-	NASA 36.202US	USC-4 (SOHO SEM)	-	-	-	WS	-	-	-	300?	-	-
2002-S69	2452596.61	2002 Nov 18 0232	Black Brant IX	-	NASA 36.197UG	ISIS	-	-	-	WS	-	-	-	300?	-	-
2002-S70	2452598.56	2002 Nov 20 0133	Terrier Orion	-	NASA 41.039DP	VALPE-1	-	-	-	WI	-	-	-	135	-	-
2002-S80	2452622.97	2002 Dec 14 1116:48	Black Brant 10CM1	-	NASA 35.033GE	CUSP 2002	-	-	-	SVAL	-	-	-	766	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2003-S02	2452664.37	2003 Jan 24 2050:00	Terrier Orion	-	NASA 41.030GE	MacWAVE	-	-	-	ESR	-	-	-	131	-	-
2003-S03	2452667.83	2003 Jan 28 0750:02	Black Brant IX	-	NASA 36.200UE	HIBAR	-	-	-	PF	-	-	-	385	-	-
2003-S04	2452668.27	2003 Jan 28 1832:00	Terrier Orion	-	NASA 41.031GE	MacWAVE	-	-	-	ESR	-	-	-	130	-	-
2003-S05	2452676.81	2003 Feb 6 0730:00	Black Brant IX	-	NASA 36.204UE	NUVIEWS 3	-	-	-	WS	-	-	-	300?	-	-
2003-S08	2452723.91	2003 Mar 25 0950:01	Black Brant 10CM1	-	NASA 35.034UE	HEX H	-	-	-	PF	LC2	-	-	160	-	-
2003-S09	2452723.92	2003 Mar 25 1009:01	Terrier Improved Orion	-	NASA 41.034UE	HEX V	-	-	-	PF	LC3	-	-	180	-	-
2003-S12	2452726.01	2003 Mar 27 1209:01	Black Brant IX	-	NASA 36.206UE	JOULE	-	-	-	PF	-	-	-	193	-	-
2003-A02	2452726.01	2003 Mar 27 1210:01	Terrier Improved Orion	-	NASA 41.028UE	JOULE	-	-	-	PF	LC5	-	-	10?	-	-
2003-S14	2452726.01	2003 Mar 27 1213:01	Terrier Improved Orion	-	NASA 41.029UE	JOULE	-	-	-	PF	LC2	-	-	180?	-	-
2003-S17	2452746.63	2003 Apr 17 0301:54	Black Brant IX	-	NASA 36.201UL	BDPR	-	-	-	WS	-	-	-	300?	-	-
2003-S23	2452800.77	2003 Jun 10 0631:00	Terrier Malemute	-	NASA 29.035UP	DEBI (Bowshock)	-	-	-	WI	-	-	-	800	-	-
2003-S27	2452820.64	2003 Jun 30 0319:00	Terrier Improved Orion	-	NASA 41.036UE	Release M/Dtr	-	-	-	WI	-	-	-	202	-	-
2003-S28	2452820.74	2003 Jun 30 0541:00	Terrier Improved Orion	-	NASA 41.037UE	Release M/Dtr	-	-	-	WI	-	-	-	206	-	-
2003-S30	2452820.80	2003 Jun 30 0707:00	Terrier Improved Orion	-	NASA 41.038UE	Release M/Dtr	-	-	-	WI	-	-	-	204	-	-
2003-S34	2452835.79	2003 Jul 15 0702:00	Terrier Improved Orion	-	NASA 41.025UE	SAMPLER (CWAS)	-	-	-	WS	-	-	-	128	-	-
2003-S35	2452835.81	2003 Jul 15 0732:00	Terrier Improved Orion	-	NASA 41.024UE	SAMPLER (CWAS)	-	-	-	WS	-	-	-	130?	-	-
2003-S36	2452852.93	2003 Aug 1 1025:03	Terrier Mk 70 Orion	-	NASA 12.052GT	NMACS Test	-	-	-	WI	-	-	-	204	-	-
2003-S38	2452864.27	2003 Aug 12 1823:30	Black Brant IX	-	NASA 36.205UE	LASP/CU-9 (SEE)	-	-	-	WS	-	-	-	300?	-	-
2003-S40	2452871.96	2003 Aug 20 1105:00	Terrier Orion	-	NASA 41.040DP	VALPE-2	-	-	-	WI	-	-	-	135	-	-
2003-S42	2452916.10	2003 Oct 3 1430:00	Terrier Improved Orion	-	NASA 41.035UE	SPIRIT 2	-	-	-	WI	-	-	-	130?	-	-
2003-A11	2452931.29	2003 Oct 18 1900	Terrier Mk 70 Orion	-	FASTT SPV-1	Dummy Scramjet	-	-	-	WI	-	-	-	20	-	-
2003-S43	2452936.95	2003 Oct 24 1045:17	Terrier Mk 70 Orion	-	NASA 12.053GT	NMACS Test	SOAREX-3	-	-	WI	-	-	-	156	-	-
2003-S47	2452979.31	2003 Dec 5 1930:00	Black Brant IX	-	NASA 36.211US	USC-5 (SOHO SEM)	-	-	-	WS	-	-	-	300?	-	-
2003-S48	2452979.33	2003 Dec 5 2000	Black Brant IX	-	NASA 36.184DS	-	-	-	-	WS	-	-	-	300?	-	-
2003-S52	2452989.62	2003 Dec 16 0300	Black Brant IX	-	NASA 36.208UG	JHU FOT 17/LIDOS	-	-	-	WS	-	-	-	300?	-	-
2004-S02	2453021.02	2004 Jan 16 1229:22	Black Brant IX	-	NASA 36.210UL	BDPR/VULCAM	-	-	-	WS	-	-	-	263?	-	-
2004-S04	2453026.87	2004 Jan 22 0857:00	Black Brant 10CM1	-	NASA 35.035UE	SERSIO	-	-	-	SVAL	-	-	-	782	-	-
2004-S14	2453108.65	2004 Apr 13 0330	Terrier Mk 70 Orion	-	NASA 12.54GT	NMACS Test	-	-	-	WS	-	-	-	122	-	-
2004-A16	2453112.21	2004 Apr 16 1656	Terrier Orion	-	FASTT SPV-2	Dummy Scramjet	-	-	-	WI	-	-	-	20	-	-
2004-A05	2453143.50	2004 May 18	Coyote	-	-	GQM-163A Test	-	-	-	PM	-	-	-	1	-	-
2004-S19	2453157.83	2004 Jun 1 0750	Black Brant IX	-	NASA 36.209UG	ISIS (Cyg Loop)	-	-	-	WS	-	-	-	300?	-	-
2004-S78	2453202.50	2004 Jul 16	ARAV-ER	-	Pacific Explorer III	ARAV-ER/Star 20	-	-	-	KAU	-	-	-	200?	-	-
2004-S28	2453224.87	2004 Aug 7 0852:55	Terrier Malemute	-	NASA 29.037UE	EQUIS II	-	-	-	KMR	-	-	-	450	-	-
2004-S29	2453224.88	2004 Aug 7 0907:30	Terrier Improved Orion	-	NASA 41.043UE	EQUIS II	-	-	-	KMR	-	-	-	130?	-	-
2004-S30	2453224.88	2004 Aug 7 0911:30	Terrier Improved Orion	-	NASA 41.045UE	EQUIS II	-	-	-	KMR	-	-	-	130?	-	-
2004-S34	2453232.85	2004 Aug 15 0821:53	Terrier Malemute	-	NASA 29.036UE	EQUIS II	-	-	-	KMR	-	-	-	450	-	-
2004-S35	2453232.87	2004 Aug 15 0847:00	Terrier Improved Orion	-	NASA 41.044UE	EQUIS II	-	-	-	KMR	-	-	-	130?	-	-
2004-S36	2453232.87	2004 Aug 15 0851:00	Terrier Improved Orion	-	NASA 41.046UE	EQUIS II	-	-	-	KMR	-	-	-	100?	-	-
2004-A10	2453244.50	2004 Aug 27	Coyote	-	-	GQM-163A Test	-	-	-	PM	-	-	-	1	-	-
2004-S37	2453245.45	2004 Aug 27 2242:43	Terrier Improved Orion	-	NASA 41.041UE	EQUIS II LEMMA 1	-	-	-	KMR	-	-	-	130?	-	-
2004-S41	2453256.50	2004 Sep 7 2356:00	Terrier Improved Orion	-	NASA 41.048UE	EQUIS II	-	-	-	KMR	-	-	-	130?	-	-
2004-S46	2453265.84	2004 Sep 17 0812	Terrier Improved Orion	-	NASA 41.047UE	EQUIS II	-	-	-	KMR	-	-	-	130?	-	-
2004-S48	2453268.48	2004 Sep 19 2330	Terrier Improved Orion	-	NASA 41.042UE	EQUIS II LEMMA 2	-	-	-	KMR	-	-	-	131	-	-
2004-S49	2453271.62	2004 Sep 23 0300	Terrier Mk 70 Orion	-	NASA 12.56GT	NMACS Test	-	-	-	WS	-	-	-	120?	-	-
2004-S59	2453294.23	2004 Oct 15 1728:33	Black Brant IX	-	NASA 36.217UE	LASP/CU-10 (SEE)	-	-	-	WS	-	-	-	300?	-	-
2004-A13	2453333.62	2004 Nov 24 0300:00	Terrier Orion	-	NASA 12.061GT	-	-	-	-	WS	-	-	-	20?	-	-
2004-A15	2453353.50	2004 Dec 14	Coyote	-	-	GQM-163A Test	-	-	-	PM	-	-	-	1	-	-
2005-S05	2453404.37	2005 Feb 2 2057:00	Terrier Orion	-	NASA 41.58DR	-	-	-	-	KAU	-	-	-	130?	-	-
2005-S09	2453431.47	2005 Mar 1 2313:00	Terrier Orion	-	NASA 41.59DR	ARAV-A FTM-7 TRACKEX	-	-	-	KAU	-	-	-	130?	-	-
2005-S12	2453432.38	2005 Mar 2 2111:00	Terrier Orion	-	NASA 41.60DR	ARAV-A FTM-7 TRACKEX	-	-	-	KAU	-	-	-	130?	-	-
2005-S13	2453433.42	2005 Mar 3 2205:00	Terrier Oriole	-	NASA 45.01DR	ARAV-B1 FTM-7 TRACKEX	-	-	-	KAU	-	-	-	300?	-	-
2005-A02	2453453.50	2005 Mar 24	Coyote	-	-	GQM-163A Test	-	-	-	PM	-	-	-	1	-	-
2005-A03	2453482.50	2005 Apr 22	Coyote	-	-	GQM-163A Test	-	-	-	PM	-	-	-	1	-	-
2005-S19	2453495.90	2005 May 5 0935:00	Terrier Improved Orion	-	NASA 41.057DP	MCAFT-1/IBSi	-	-	-	WI	-	-	-	156	-	-
2005-S27	2453550.45	2005 Jun 28 2254	Terrier ASAS	-	NASA 12.060GT	Test flight	-	-	-	WI	-	-	-	275	-	-
2005-S29	2453559.18	2005 Jul 7 1620:00	Black Brant IX	-	NASA 36.222DS	VAULT III	-	-	-	WS	-	-	-	300?	-	-
2005-S31	2453586.28	2005 Aug 3 1845:00	Black Brant IX	-	NASA 36.227US	USC-6 (SOHO SEM)	-	-	-	WS	-	-	-	300?	-	-
2005-S48	2453677.44	2005 Nov 2 2234	Terrier Mk 70 Oriole	-	NASA 45.02DR	ARAV-B2 TRACKEX FTM-8	-	-	-	KAU	-	-	-	300?	-	-
2005-S50	2453689.35	2005 Nov 14 2030	Terrier Improved Orion	-	NASA 41.66DR	-	-	-	-	WS	-	-	-	130?	-	-
2005-S53	2453693.38	2005 Nov 18 2113	Terrier Improved Orion	-	NASA 41.67DR	-	-	-	-	WS	-	-	-	130?	-	-
2005-A07	2453714.98	2005 Dec 10 1130	Terrier Orion	-	-	FASTT	-	-	-	WI	-	-	-	19	-	-
2005-S57	2453725.23	2005 Dec 20 1725:47	Terrier Orion	-	NASA 12.63GT	Water recovery test	-	-	-	WI	-	-	-	191	-	-
2006-S03	2453775.28	2006 Feb 8 1847	Black Brant IX	-	NASA 36.193	MOSES	-	-	-	WS	-	-	-	282	-	-
2006-S07	2453819.64	2006 Mar 25 0315	Terrier Mk 70 Orion	-	-	Hyshot 3	-	-	-	WOO	-	-	-	325	-	-
2006-S10	2453824.61	2006 Mar 30 0240	Terrier Mk 70 Orion	-	-	Hyshot 4 (JAXA)	-	-	-	WOO	-	-	-	290	-	-
2006-S12	2453831.17	2006 Apr 5 1600	Terrier Improved Orion	-	NASA 41.068NT	Descent imagery/RSO	-	-	-	WS	LC36	-	-	125	-	-
2006-S14	2453838.26	2006 Apr 12 1810	Black Brant IX	-	NASA 36.203GS	EUNIS 1	EUNIS-06	-	-	WS	-	-	-	318?	-	-
2006-S23	2453877.90	2006 May 22 0930	Terrier Improved Orion	-	NASA 12.58GT	ACS test	-	-	-	WS	-	-	-	150?	-	-
2006-S24	2453892.17	2006 Jun 5 1605	Terrier Improved Orion	-	NASA 41.073DR	-	-	-	-	WS	-	-	-	130?	-	-
2006-S25	2453894.42	2006 Jun 7 2200	Terrier Improved Orion	-	NASA 41.071DR	-	-	-	-	KAU	-	-	-	130?	-	-
2006-S26	2453895.17	2006 Jun 8 1600	Terrier Improved Orion	-	NASA 41.074DR	DUNDEE target	-	-	-	WS	-	-	-	130?	-	-
2006-S31	2453910.46	2006 Jun 23 2302	Terrier Improved Orion	-	NASA 41.072DR Aegis	ARAV-A FTM-10 Targ	-	-	-	KAU	-	-	-	130?	-	-
2006-S33	2453917.78	2006 Jul 1 0639	Terrier Improved Orion	-	NASA 41.056UO	ESPRIT (SPIRIT 3)	-	-	-	AND	-	-	-	169	-	-
2006-S46	2453969.10	2006 Aug 21 1430	Black Brant IX	-	NASA 36.238DR	THAAD Target	-	-	-	WS	-	-	-	380?	-	-
2006-S47	2453973.10	2006 Aug 25 1430	Black Brant IX	-	NASA 36.237DR	THAAD Target	-	-	-	WS	-	-	-	382	-	-
2006-S58	2454037.25	2006 Oct 28 1758:00	Black Brant IX	-	NASA 36.233US	LASP/CU-11 (SEE/EVE)	-	-	-	WS	-	-	-	300?	-	-
2006-S62	2454047.31	2006 Nov 7 1930	Black Brant IX	-	NASA 36.236US	USC-7 (SOHO SEM)	-	-	-	WS	-	-	-	300?	-	-
2006-S76	2454055.50	2006 Nov 16	Terrier Oriole	-	FTM-11 TRACKEX	ARAV-B3 FTM-11 (sep)	-	-	-	KAU	-	-	-	150?	-	-
2006-S63	2454060.58	2006 Nov 21 0200:00	Black Brant IX	-	NASA 36.224UH	CyXESS	-	-	-	WS	-	-	-	300?	-	-
2007-S03	2454120.02	2007 Jan 19 1229:01	Black Brant IX	-	NASA 36.234UE	JOULE II	-	-	-	PF	-	-	-	190	-	-
2007-S04	2454120.02	2007 Jan 19 1230:01	Terrier Improved Orion	-	NASA 41.064UE	JOULE II	-	-	-	PF	-	-	-	200?	-	-
2007-S05	2454120.03	2007 Jan 19 1246:01	Terrier Improved Orion	-	NASA 41.065UE	JOULE II	-	-	-	PF	-	-	-	200?	-	-
2007-S11	2454145.89	2007 Feb 14 0922:01	Terrier Orion	-	NASA 41.061	HEX-II V-1	-	-	-	PF	-	-	-	200?	-	-
2007-S12	2454145.89	2007 Feb 14 0927:11	Black Brant X	-	NASA 35.037	HEX-II H	-	-	-	PF	-	-	-	150	-	-
2007-S13	2454145.90	2007 Feb 14 0936:11	Terrier Orion	-	NASA 41.063	HEX-II V-2	-	-	-	PF	-	-	-	200?	-	-
2007-S14	2454145.90	2007 Feb 14 0938:11	Terrier Orion	-	NASA 41.062	HEX-II V-3	-	-	-	PF	-	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2007-S20	2454217.40	2007 Apr 26 2131	Terrier Orion	-	Aegis FTM-11E4 Tgt	ARAV-A	-	-	-	KAU	-	-	-	160?	-	-
2007-S35	2454266.50	2007 Jun 15	Terrier Orion	-	Aegis FTM-12-2 Targ	ARAV-A TRACKEX	-	-	-	KAU	-	-	-	160?	-	-
2007-S36	2454266.50	2007 Jun 15	Terrier Orion	-	Aegis FTM-12-2 Targ	ARAV-A TRACKEX	-	-	-	KAU	-	-	-	160?	-	-
2007-S26	2454272.73	2007 Jun 21 0538:00	Terrier Improved Orion	-	NASA 12.059GT	Star tracker/ACS	-	-	-	WS	-	-	-	130?	-	-
2007-S30	2454316.45	2007 Aug 3 2251:20	Terrier Improved Orion	-	NASA 41.069	MASS 1 (NLCs)	-	-	-	AND	-	-	-	130?	-	-
2007-S32	2454319.46	2007 Aug 6 2256:00	Terrier Improved Orion	-	NASA 41.070	MASS 2 (NLCs)	-	-	-	AND	-	-	-	130?	-	-
2007-S33	2454325.74	2007 Aug 13 0545	Black Brant IX	-	NASA 36.220UG	JHU FOT 18/LIDOS 2	-	-	-	WS	-	-	-	278?	-	-
2007-S78	2454343.50	2007 Aug 31	Terrier Orion	?	Aegis FTM-11a Target	-	-	-	-	KAU?	-	-	-	160	-	-
2007-S45	2454350.38	2007 Sep 6 2109:00	Terrier Improved Orion	-	NASA 41.055NP	IRVE	-	-	-	WI	-	-	-	130?	-	-
2007-S55	2454403.68	2007 Oct 30 0412:52	Black Brant IX	-	NASA 36.218UE	STORMS (MidLat SpF)	-	-	-	WI	-	-	-	395	-	-
2007-S56	2454410.50	2007 Nov 6	STAR	-	Ballistic Target	PAC-2 target	-	-	-	NAMFI	-	-	-	85	-	-
2007-S61	2454411.25	2007 Nov 6 1800	Black Brant IX	-	NASA 36.241GS	EUNIS 2	EUNIS-07	-	-	WS	-	-	-	300?	-	-
2007-S59	2454411.67	2007 Nov 7 0412	Terrier Orion	-	Aegis FTM-13 Target	ARAV-A	-	-	-	KAU	-	-	-	150?	-	-
2007-S60	2454411.68	2007 Nov 7 0413	Terrier Orion	-	Aegis FTM-13 Target	ARAV-A	-	-	-	KAU	-	-	-	150?	-	-
2007-S80	2454451.50	2007 Dec 17?	Terrier Oriole	-	JFTM-1 TRACKEX	ARAV-B4 TRACKEX	-	-	-	KAU	-	-	-	150?	-	-
2008-S01	2454476.72	2008 Jan 11 0523:00	Black Brant IX	2	NASA 36.243UG	JHU FOT 19/LIDOS 3	-	-	-	WS	LC36	-	-	315	-	-
2008-S76	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S77	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S78	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S79	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S14	2454571.21	2008 Apr 14 1658	Black Brant IX	-	NASA 36.240UE	LASP/CU-12 (SEE/EVE)	-	-	-	WS	-	-	-	300?	-	-
2008-S18	2454587.73	2008 May 1 0530	Black Brant IX	-	NASA 36.223UH	XQC F4	-	-	-	WS	-	-	-	300?	-	-
2008-S27	2454630.50	2008 Jun 13	Terrier Oriole	-	FTM-14 TRACKEX	ARAV-B5 TRACKEX	-	-	-	KAU	-	-	-	150?	-	-
2008-S28	2454630.50	2008 Jun 13	Terrier Oriole	-	FTM-14 TRACKEX	ARAV-B6 TRACKEX	-	-	-	KAU	-	-	-	150?	-	-
2008-S35	2454661.92	2008 Jul 14 1010	Terrier Mk 70 Orion	-	NASA 41.075NP (GT?)	SubTec-II	-	-	-	WI	-	-	-	130?	-	-
2008-S50	2454759.86	2008 Oct 20 0839:01	Black Brant IX	-	NASA 36.207DG	J-PEX	-	-	-	WS	-	-	-	300?	-	-
2008-S80	2454774.50	2008 Nov 4	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S81	2454774.50	2008 Nov 4	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S82	2454774.50	2008 Nov 4?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S83	2454775.50	2008 Nov 5?	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S84	2454775.50	2008 Nov 5	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2008-S85	2454775.50	2008 Nov 5	STAR	-	Ballistic Target	PAC-2 target	-	-	-	CYCL	-	-	-	85?	-	-
2009-S03	2454860.91	2009 Jan 29 0949:41	Black Brant IX	-	NASA 36.242UE	ACES I	-	-	-	PF	-	-	-	364	-	-
2009-S05	2454880.91	2009 Feb 18 0952:00	Terrier Improved Orion	-	NASA 41.076	Turbopause	-	-	-	PF	-	-	-	140?	-	-
2009-S06	2454880.94	2009 Feb 18 1029:00	Terrier Improved Orion	-	NASA 41.078	Turbopause	-	-	-	PF	-	-	-	140?	-	-
2009-S07	2454880.96	2009 Feb 18 1059:00	Terrier Improved Orion	-	NASA 41.079	Turbopause	-	-	-	PF	-	-	-	140?	-	-
2009-S08	2454880.99	2009 Feb 18 1149:00	Terrier Improved Orion	-	NASA 41.077	Turbopause	-	-	-	PF	-	-	-	140?	-	-
2009-S11	2454887.95	2009 Feb 25 1045	Black Brant IX	-	NASA 36.226UG	CIBER-I	-	-	-	WS	-	-	-	330	-	-
2009-S23	2454958.61	2009 May 7 0242:00	Terrier Orion	-	-	HiFire HF0	-	-	-	WOO	-	-	-	314?	-	-
2009-S25	2454980.20	2009 May 28 1652	Terrier Orion	-	NASA 41.080NR	SOAREX-7 TDRV	-	-	-	WI	-	-	-	130	-	-
2009-S28	2454988.50	2009 Jun 6	Terrier Lynx	-	-	ABL Target	-	-	-	SNI	-	-	-	80?	-	-
2009-S29	2454995.50	2009 Jun 13	Terrier Lynx	-	-	ABL Target	-	-	-	SNI	-	-	-	80?	-	-
2009-S30	2455008.90	2009 Jun 26 0930	Terrier Orion	-	NASA 41.083UO	RockOn	-	-	-	WI	-	-	-	117	-	-
2009-S32	2455009.81	2009 Jun 27 0730	Black Brant IX	-	NASA 36.244UG	DICE	-	-	-	WS	-	-	-	300?	-	-
2009-S37	2455043.65	2009 Jul 31 0340	Terrier Orion	-	Aegis FTM-17 target	ARAV-A	-	-	-	KAU	-	-	-	100?	-	-
2009-S39	2455043.67	2009 Jul 31 0400?	Terrier Orion	-	FTX-06E1 TRACKEX	ARAV-A	-	-	-	KAU	-	-	-	100?	-	-
2009-S40	2455054.70	2009 Aug 11 0450:32	Black Brant IX	-	NASA 36.229DR	MARTI ABL Target	-	-	-	SNI	-	-	-	100?	-	-
2009-S42	2455061.04	2009 Aug 17 1252:00	Black Brant IX	-	NASA 36.254NR	IRVE-II	-	-	-	WI	LA2	-	-	210	-	-
2009-S44	2455089.24	2009 Sep 14 1740:00	Black Brant IX	-	NASA 36.221DS	HERSCHEL HEIT/SCORE	-	-	-	WS	-	-	-	300?	-	-
2009-S73	2455117.50	2009 Oct 13	Terrier Oriole	-	JFTM-3 TRACKEX	ARAV-B8	-	-	-	KAU	-	-	-	100?	-	-
2009-S72	2455117.50	2009 Oct 13	Terrier Oriole	-	JFTM-3 TRACKEX	ARAV-B9	-	-	-	KAU	-	-	-	100?	-	-
2009-S58	2455120.50	2009 Oct 16	Terrier Oriole	-	FTX-06E2	ARAV-B10	-	-	-	KAU	-	-	-	100?	-	-
2009-S59	2455120.50	2009 Oct 16	Terrier Oriole	-	FTX-06E3	ARAV-B11	-	-	-	KAU	-	-	-	100?	-	-
2009-S61	2455149.60	2009 Nov 14 0230:00	Black Brant IX	-	NASA 36.252UH	EXOS/CyXESS	-	-	-	WS	-	-	-	300?	-	-
2009-S70	2455182.64	2009 Dec 17 0325:00	Terrier Orion	-	NASA 41.086UO	HAROH	-	-	-	WS	-	-	-	130?	-	-
2010-S10	2455207.46	2010 Jan 10 2300:00	Black Brant IX	-	NASA 36.247DR	MARTI ABL Target	-	-	-	SNI	-	-	-	100?	-	-
2010-S20	2455231.84	2010 Feb 4 0803:07	Black Brant IX	-	NASA 36.250DR	MARTI ABL Target	-	-	-	SNI	-	-	-	100?	-	-
2010-S16	2455236.88	2010 Feb 9 0901:00	Terrier Improved Orion	-	NASA 41.084UE	Ampules	-	-	-	PF	-	-	-	160?	-	-
2010-S18	2455239.73	2010 Feb 12 0531:20	Black Brant IX	-	NASA 36.251DR	MARTI ABL Target	-	-	-	SNI	-	-	-	150?	-	-
2010-S29	2455277.53	2010 Mar 22 0045	Terrier Improved Orion	-	-	HiFire HF1	-	-	-	WOO	-	-	-	288	-	-
2010-S27	2455283.09	2010 Mar 27 1409:56	Terrier Imp Malemute	2	NASA 12.067GT	Test/ADAMASat/CP1U	-	-	-	WI	LA1 AML	-	-	270	-	-
2010-S35	2455319.91	2010 May 3 0947:00	Black Brant IX	-	NASA 36.248DR	MARTI ABL Target	-	-	-	SNI	-	-	-	150?	-	-
2010-S31	2455320.27	2010 May 3 1832:00	Black Brant IX	-	NASA 36.258UE	SDO EVE Cal 1	-	-	-	WS	-	-	-	280?	-	-
2010-S36	2455337.88	2010 May 21 0900:00	Black Brant IX	-	NASA 36.270UG	DICE	-	-	-	WS	-	-	-	325?	-	-
2010-S43	2455371.97	2010 Jun 24 1117:00	Terrier Improved Orion	-	NASA 41.088UO	RockOn	-	-	-	WI	LA2 MRL	-	-	117	-	-
2010-S45	2455388.70	2010 Jul 11 0450:00	Black Brant IX	-	NASA 36.265UG	CIBER-I F2	-	-	-	WS	-	-	-	320?	-	-
2010-S49	2455408.26	2010 Jul 30 1821:00	Black Brant IX	-	NASA 36.213NS	SUMI	-	-	-	WS	LC35	-	-	246?	-	-
2010-S50	2455412.89	2010 Aug 4 0915:03	Black Brant X	-	NASA 12.073GT	Motor test	-	-	-	WI	LA1	-	-	691?	-	-
2010-S53	2455432.25	2010 Aug 23 1757:00	Black Brant IX	-	NASA 36.219US	RAISE	-	-	-	WS	-	-	-	295	-	-
2010-S58	2455461.05	2010 Sep 21 1307:30	Terrier Improved Orion	-	NASA 41.082NP	SUBTEC III	-	-	-	WI	LA2	-	-	130?	-	-
2010-S84	2455475.50	2010 Oct 6	Terrier Oriole	?	Aegis Target	JFTM-4 E1	-	-	-	KAU	-	-	-	100?	-	-
2010-S85	2455475.50	2010 Oct 6	Terrier Oriole	?	Aegis Target	JFTM-4 E1	-	-	-	KAU	-	-	-	100?	-	-
2010-S61	2455491.21	2010 Oct 21 1700	Black Brant IX	-	NASA 36.230DR	MARTI ABL Target	-	-	-	SNI	-	-	-	100?	-	-
2010-S83	2455512.50	2010 Nov 12	Terrier Oriole	-	Aegis Target 16E2B	ARAV-B14	-	-	-	KAU	-	-	-	100?	-	-
2010-S69	2455537.20	2010 Dec 6 1645:00	Terrier Improved Orion	-	NASA 41.087NT	TRaINED	-	-	-	WS	-	-	-	120	-	-
2011-S01	2455583.76	2011 Jan 22 0610	Terrier Oriole	-	Aegis Target	ARAV-B	Atlantic Trident	-	-	WI	LA2 MRL	-	-	100?	-	-
2011-S02	2455589.95	2011 Jan 28 1046:00	Black Brant IX	-	NASA 36.257UG	FIRE	-	-	-	PF	LC3	-	-	240?	-	-
2011-S03	2455597.84	2011 Feb 5 0811:11	Black Brant IX	-	NASA 36.256UE	POLAR NOX	-	-	-	PF	LC3	-	-	260?	-	-
2011-S09	2455636.50	2011 Mar 16	Terrier Oriole	-	SSTS Target	ARAV-B	-	-	-	KAU	-	-	-	150?	-	-
2011-S11	2455644.28	2011 Mar 23 1850:00	Black Brant IX	-	NASA 36.275UE	SDO EVE Cal 2	-	-	-	WS	-	-	-	280?	-	-
2011-S15	2455678.83	2011 Apr 27 0800:00	Black Brant IX	-	NASA 36.278GT	SRPO DIagnostic	-	-	-	PF	LC3	-	-	339	-	-
2011-S19	2455722.97	2011 Jun 10 1116	Terrier Improved Orion	-	NASA 41.096GT	SUBTEC IV/SMART	-	-	-	WI	LA2 MRL	-	-	118	-	-
2011-S22	2455735.93	2011 Jun 23 1017:59	Terrier Mk 12 Imp Orion	-	NASA 41.095UO	RockOn IV/Rocksat-C	-	-	-	WI	LA1 AML	-	-	119	-	-
2011-S29	2455753.08	2011 Jul 10 1400:15?	Terrier Improved Orion	-	NASA 41.091GE	Daytime Dynamo	-	-	-	WI	LA2 MRL	-	-	158?	-	-
2011-S32	2455764.00	2011 Jul 21 1158	Terrier Improved Orion	-	NASA 41.092GO	RockSat-X 1	-	-	-	WI	LA1	-	-	121	-	-
2011-S38	2455806.08	2011 Sep 1 1353	Terrier Oriole	?	Aegis Target	ARAV-B?	-	-	-	KAU	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-A23	2455813.07	2011 Sep 8 1345	Terrier	-	NASA 12.076GT	Terrier Mk12 Test Flight	-	-	-	WI	LA2 MRL	-	-	10?	-	-
2011-S56	2455842.93	2011 Oct 8 1025:01	Black Brant IX	-	NASA 36.225UG	PICTURE	-	-	-	WS	-	-	-	250?	-	-
2011-S49	2455846.39	2011 Oct 11 2115:00	Terrier Improved Orion	-	NASA 41.094UE	CHAMPS	-	-	-	AND	Athena	-	-	130?	-	-
2011-S50	2455848.08	2011 Oct 13 1350:00	Terrier Improved Orion	-	NASA 41.093UE	CHAMPS	-	-	-	AND	U3	-	-	130?	-	-
2011-S54	2455871.79	2011 Nov 6 0700:00	Black Brant IX	-	NASA 36.264UH	XQC F5	-	-	-	WS	-	-	-	250?	-	-
2011-S70	2455905.94	2011 Dec 10 1030:00	Black Brant IX	-	NASA.36.274UH	CODEX	-	-	-	WS	-	-	-	250?	-	-
2011-S74	2455910.50	2011 Dec 15	Terrier Oriole	?	Aegis Target	FTX-16 Event 3	-	-	-	KAU	-	-	-	100?	-	-
2012-S01	2455938.06	2012 Jan 11 1325:00	Terrier Imp Malemute	2	NASA 12.074GT	-	-	-	-	WI	-	-	-	261	-	-
2012-S06	2455976.74	2012 Feb 19 0541:07	Black Brant IX	-	NASA 36.273UE	MICA	-	-	-	PF	LC3	-	-	325	-	-
2012-S10	2456008.88	2012 Mar 22 0900	Black Brant IX	-	NASA 36.277UG	CIBER-I F3	-	-	-	WS	-	-	-	320?	-	-
2012-S11	2456013.87	2012 Mar 27 0858:00	Terrier Mk 70 Oriole	-	NASA 45.004UE	ATREX 1	-	-	-	WI	LA2 ARC	-	-	375?	-	-
2012-S12	2456013.87	2012 Mar 27 0859:20	Terrier Imp Malemute	1	NASA 46.002UE	ATREX 2	-	-	-	WI	LA2 MRL	-	-	200?	-	-
2012-S13	2456013.88	2012 Mar 27 0900:40	Terrier Mk 12 Imp Orion	-	NASA 41.097UE	ATREX 3	-	-	-	WI	LA2 HAD	-	-	157?	-	-
2012-S14	2456013.88	2012 Mar 27 0902:00	Terrier Imp Malemute	2	NASA 46.003UE	ATREX 4	-	-	-	WI	LA1 AML	-	-	254?	-	-
2012-S15	2456013.88	2012 Mar 27 0903:20	Terrier Mk 70 Imp Orion	-	NASA 41.098UE	ATREX 5	-	-	-	WI	LA2 HAD	-	-	169?	-	-
2012-S17	2456015.50	2012 Mar 29	Terrier Orion	?	PAC target	-	-	-	-	WS	-	-	-	80?	-	-
2012-A02	2456048.50	2012 May 1	Terrier Terrier Oriole	-	-	HiFire 2	-	-	-	KAU	-	-	-	43	-	-
2012-S20	2456057.76	2012 May 10 0618	Terrier Improved Orion	-	Aegis FTM16E2a Targ	ARAV-A	-	-	-	KAU	-	-	-	100?	-	-
2012-S29	2456099.94	2012 Jun 21 1040	Terrier Mk 12 Imp Orion	-	NASA 41.101UO	RockOn	-	-	-	WI	LA2 MRL	-	-	117	-	-
2012-S31	2456102.31	2012 Jun 23 1930	Black Brant IX	-	NASA 36.286UE	SDO EVE Cal 3	-	-	-	WS	-	-	-	300?	-	-
2012-S34	2456114.28	2012 Jul 5 1849:59	Black Brant IX	-	NASA 36.284NS	SUMI 2	-	-	-	WS	-	-	-	275?	-	-
2012-S38	2456120.28	2012 Jul 11 1850	Black Brant IX	-	NASA 36.272NS	Hi-C	-	-	-	WS	-	-	-	268	-	-
2012-S40	2456133.30	2012 Jul 24 1917	Black Brant IX	-	NASA 36.263US	DFS	-	-	-	WS	-	-	-	324	-	-
2012-S47	2456182.70	2012 Sep 12 0445:00	Terrier Lynx	-	-	Shark+ 01/Star 13C	-	-	-	WI	LA2 ARC	-	-	300?	-	-
2012-S52	2456191.97	2012 Sep 21 1116:30	Terrier Imp Malemute	2	NASA 46.004GO	RockSat-X 2	-	-	-	WI	LA2 ARC	-	-	153	-	-
2012-S61	2456225.50	2012 Oct 25?	Terrier Oriole	-	FTI-01 Aegis Target	ARAV-B	-	-	-	WAKE	-	-	-	100?	-	-
2012-S65	2456234.25	2012 Nov 2 1755:00	Black Brant IX	-	NASA 36.255US	FOXSI 1	-	-	-	WS	-	-	-	321	-	-
2012-S68	2456252.96	2012 Nov 21 1055:13	Black Brant IX	-	NASA 36.260UG	IMAGER	-	-	-	WS	-	-	-	291	-	-
2012-S69	2456274.72	2012 Dec 13 0520	Black Brant IX	-	NASA 36.283UH	DXL/STORM	-	-	-	WS	-	-	-	257?	-	-
2013-S06	2456322.45	2013 Jan 29 2250	Terrier Mk 70 Imp Orion	-	NASA 41.107GT	Li release test	-	-	-	WI	LA2 MRL	-	-	130?	-	-
2013-S28	2456339.27	2013 Feb 15 1834:31	Terrier Improved Orion	-	NASA 41.104GT	-	-	-	-	WS	-	-	-	130?	-	-
2013-S21	2456363.01	2013 Mar 11 1209	Terrier Lynx	-	-	Shark+ 02/Star 13C	-	-	-	WI	LA2 MRL	-	-	300?	-	-
2013-S26	2456403.83	2013 Apr 21 0800	Black Brant IX	-	NASA 36.271UG	SLICE	-	-	-	WS	-	-	-	318?	-	-
2013-S27	2456406.23	2013 Apr 23 1730	Black Brant IX	-	NASA 36.269GS	EUNIS 3	-	-	-	WS	-	-	-	320?	-	-
2013-S29	2456413.82	2013 May 1 0738	Terrier Improved Orion	-	NASA 41.10ODR	MOSC 1A	-	-	-	KMR	RN	-	-	185	-	-
2013-S30	2456423.71	2013 May 11 0500	Black Brant IX	-	NASA 36.268UG	FORTIS 1	-	-	-	WS	-	-	-	280	-	-
2013-S31	2456419.82	2013 May 7 0739:00	Terrier Oriole	-	NASA 45.005UE	EVEX	-	-	-	KMR	RN	-	-	350?	-	-
2013-S32	2456419.82	2013 May 7 0740:30	Terrier Imp Malemute	-	NASA 46.001UE	EVEX	-	-	-	KMR	RN	-	-	190?	-	-
2013-S34	2456421.81	2013 May 9 0723	Terrier Improved Orion	-	NASA 41.102DR	MOSC 1B	-	-	-	KMR	RN	-	-	188	-	-
2013-S40	2456463.90	2013 Jun 20 0930	Terrier Mk 12 Imp Orion	-	NASA 41.106UO	RockOn 2013	-	-	-	WI	LA1 AML	-	-	118	-	-
2013-S46	2456478.11	2013 Jul 4 1431:40	Terrier Mk 70 Imp Orion	-	NASA 41.090GE	Daytime Dynamo	-	-	-	WI	LA2 MRL	-	-	160?	-	-
2013-S53	2456513.26	2013 Aug 8 1810	Black Brant IX	-	NASA 36.239DS	VERIS	-	-	-	WS	-	-	-	280	-	-
2013-S55	2456517.92	2013 Aug 13 1000	Terrier Imp Malemute	1	NASA 46.005UO	Rocksat-X 3	-	-	-	WI	LA2 ARC	-	-	151	-	-
2013-S89	2456569.73	2013 Oct 4 0533	Terrier Terrier Oriole	?	Aegis FTM-22 target	ARAV-ER	-	-	-	KAU	-	-	-	300?	-	-
2013-S92	2456587.25	2013 Oct 21 1800	Black Brant IX	-	NASA 36.290US	SDO EVE Cal 4	-	-	-	WS	-	-	-	278?	-	-
2013-S97	2456599.89	2013 Nov 3 0925	Black Brant IX	-	NASA 36.294UH	XQC F6	-	-	-	WS	-	-	-	280?	-	-
2013-S99	2456616.99	2013 Nov 20 1140:01	Black Brant IX	-	NASA 36.296UG	FORTIS 2 (ISON)	-	-	-	WS	-	-	-	277	-	-
2013-S100	2456623.58	2013 Nov 27 0153	Black Brant IX	-	NASA 36.261UG	VeSpR	-	-	-	WS	-	-	-	280?	-	-
2014-S02	2456672.88	2014 Jan 15 0909:00	Terrier Improved Orion	-	FTX-18 Target	ARAV-A	-	-	-	WI	LA2 MRL	-	-	130?	-	-
2014-S03	2456672.88	2014 Jan 15 0909:20	Terrier Improved Orion	-	FTX-18 Target	ARAV-A	-	-	-	WI	LA2 HAD	-	-	130?	-	-
2014-S04	2456672.88	2014 Jan 15 0909:40	Terrier Improved Orion	-	FTX-18 Target	ARAV-A	-	-	-	WI	LA2 ARC	-	-	130?	-	-
2014-S06	2456719.97	2014 Mar 3 1109:51	Black Brant IX	3	NASA 36.287UE	GREECE	-	-	-	PF	LC3	-	-	335	-	-
2014-S24	2456780.83	2014 May 3 0800:01	Black Brant IX	-	NASA 36.235US	HYPE	-	-	-	WS	-	-	-	278	-	-
2014-S87	2456801.50	2014 May 24	Terrier Terrier Oriole	-	-	Polar Bear	-	-	-	KAU?	-	-	-	200?	-	-
2014-S31	2456801.82	2014 May 24 0735:00	Black Brant IX	-	NASA 36.285UG	CHESS	-	-	-	WS	-	-	-	278	-	-
2014-S34	2456834.97	2014 Jun 26 1121:00	Terrier Mk 12 Imp Orion	-	NASA 41.110UO	RockOn 2014	-	-	-	WI	LA2 MRL	-	-	118	-	-
2014-A11	2456840.86	2014 Jul 2 0836:00	Terrier Imp Malemute	1	NASA 46.007GP	SubTec-6	-	-	-	WI	LA2 ARC	-	-	8	-	-
2014-S42	2456861.30	2014 Jul 22 1910	Black Brant IX	3	NASA 36.289US	DFSSP	-	-	-	WS	-	-	-	320	-	-
2014-S45	2456893.05	2014 Aug 23 1313	Terrier Lynx	-	-	MDA Shark No. 3	-	-	-	WI	LA2	-	-	150?	-	-
2014-S48	2456897.88	2014 Aug 28 0900:30	Black Brant IX	-	NASA 36.308GT	Release test	-	-	-	WI	LA2 MRL	-	-	350	-	-
2014-S58	2456931.25	2014 Sep 30 1807	Black Brant IX	-	NASA 36.288DS	VAULT 2.0	-	-	-	WS	-	-	-	290?	-	-
2014-S60	2456942.69	2014 Oct 12 0427	Terrier Lynx	-	-	MDA Shark No. 4	-	-	-	WI	LA2	-	-	150?	-	-
2014-S71	2456968.30	2014 Nov 6 1907	Black Brant IX	-	NASA 36.253US	RAISE 2	-	-	-	WS	-	-	-	300?	-	-
2014-S69	2456968.42	2014 Nov 6 2203	Terrier Oriole	-	Aegis FTM-25 Target	ARAV-B	-	-	-	KAU	-	-	-	150?	-	-
2014-S77	2457003.30	2014 Dec 11 1911	Black Brant IX	-	NASA 36.295US	FOXSI 2	-	-	-	WS	-	-	-	338	-	-
2015-S01	2457048.88	2015 Jan 26 0913:01	Terrier Imp Malemute	1	NASA 46.009UE	M-TeX 1	-	-	-	PF	LC1	-	-	160?	-	-
2015-S02	2457048.88	2015 Jan 26 0914	Terrier Improved Orion	-	NASA 41.111UE	MIST 1	-	-	-	PF	LC2	-	-	130?	-	-
2015-S03	2457048.91	2015 Jan 26 0946:01	Terrier Imp Malemute	1	NASA 46.010UE	M-TeX 2	-	-	-	PF	LC3	-	-	160?	-	-
2015-S04	2457048.91	2015 Jan 26 0947	Terrier Improved Orion	-	NASA 41.112UE	MIST 2	-	-	-	PF	LC5	-	-	130?	-	-
2015-S09	2457077.65	2015 Feb 24 0330:00	Terrier Oriole	-	FTX-19 Target	ARAV-B	-	-	-	WI	LA2 MRL	-	-	150?	-	-
2015-S10	2457077.65	2015 Feb 24 0330:08	Terrier Oriole	-	FTX-19 Target	ARAV-B	-	-	-	WI	LA2 ARC	-	-	150?	-	-
2015-S11	2457077.65	2015 Feb 24 0330:20	Terrier Oriole	-	FTX-19 Target	ARAV-B	-	-	-	WI	LA1 AML	-	-	150?	-	-
2015-S12	2457079.02	2015 Feb 25 1226	Black Brant IX	-	NASA 36.299DR	MOSC 2	-	-	-	WS	LC36	-	-	200?	-	-
2015-S25	2457130.96	2015 Apr 18 1101	Terrier Imp Malemute	1	NASA 46.008UO	RockSat-X 4	-	-	-	WI	LA2 ARC	-	-	154	-	-
2015-S30	2457144.85	2015 May 2 0830:01	Black Brant IX	-	NASA 36.292UH	OGRESS	-	-	-	WS	LC36	-	-	272	-	-
2015-A05	2457164.30	2015 May 21 1915	Black Brant IX	-	NASA 36.300US	SDO EVE Cal 5	-	-	-	WS	LC36?	-	-	5	-	-
2015-S35	2457198.92	2015 Jun 25 1000	Terrier Mk 12 Imp Orion	-	NASA 41.113UO	RockOn 8/RockSat-C 7	-	-	-	WI	LA2 MRL	-	-	115	-	-
2015-S38	2457210.93	2015 Jul 7 1015	Black Brant IX	2	NASA 36.313NP	SOAREX-8/RCHS	-	-	-	WI	LA2 ARC	-	-	331	-	-
2015-S41	2457246.92	2015 Aug 12 1004	Terrier Imp Malemute	1	NASA 46.012UO	RockSat-X 5	-	-	-	WI	LA2 ARC	-	-	156	-	-
2015-S47	2457262.24	2015 Aug 27 1745:00	Black Brant IX	-	NASA 36.282US	MOSES-II	-	-	-	WS	LC36?	-	-	250?	-	-
2015-S48	2457269.21	2015 Sep 3 1701	Black Brant IX	-	NASA 36.291US	CLASP	-	-	-	WS	LC36?	-	-	287	-	-
2015-S53	2457303.46	2015 Oct 7 2307	Black Brant IX	4	NASA 36.310GT	Mk4 Motor Test	-	-	-	WI	-	-	-	164?	-	-
2015-S67	2457315.50	2015 Oct 20	Terrier Orion	-	ASD-15 E2	Aegis Target	-	-	-	SUIST	-	-	-	100?	-	-
2015-S77	2457351.68	2015 Nov 25 0417	Black Brant IX	-	NASA 36.293UG	PICTURE-B	-	-	-	WS	LC36?	-	-	217	-	-
2015-S81	2457361.75	2015 Dec 5 0600	Black Brant IX	-	NASA 36.305UH	DXL-2	-	-	-	WS	-	-	-	238	-	-
2015-S95	2457374.79	2015 Dec 18 0652	Black Brant IX	-	NASA 36.312UG	FORTIS 3	-	-	-	WS	-	-	-	282	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2016-S09	2457440.68	2016 Feb 22 0415	Black Brant IX	-	NASA 36.297UG	CHESS 2	-	-	-	WS	-	-	-	309	-	-
2016-S10	2457449.12	2016 Mar 1 1450:00	Terrier Imp Malemute	-	NASA 46.011GP	MUSIC	-	-	-	WI	-	-	-	185	-	-
2016-S11	2457455.00	2016 Mar 7 1205	Terrier Improved Orion	-	NASA 41.114NP	FOP/SOAREX-9	-	-	-	WI	-	-	-	160	-	-
2016-S36	2457541.29	2016 Jun 1 1900	Black Brant IX	-	NASA 36.318UE	SDO EVE Cal 6	-	-	-	WS	-	-	-	290	-	-
2016-S40	2457563.92	2016 Jun 24 1006	Terrier Improved Orion	-	NASA 41.116UO	RockOn 9/RockSat-C 8	-	-	-	WI	-	-	-	119	-	-
2016-S46	2457588.67	2016 Jul 19 0405	Terrier Improved Orion	-	ROTEX-T	DLR ROTEX-T	-	-	-	ESR	-	-	-	182	-	-
2016-S47	2457597.27	2016 Jul 27 1826	Black Brant IX	-	NASA 36.314NS	Hi-C 2	-	-	-	WS	-	-	-	260?	-	-
2016-S49	2457617.98	2016 Aug 17 1133:30	Terrier Imp Malemute	-	NASA 46.014UO	RockSat-X 6	-	-	-	WI	LA2	-	-	153	-	-
2017-S04	2457781.07	2017 Jan 27 1345	Black Brant IX	-	NASA 36.302UE	PolarNOx	-	-	-	PF	LC3	-	-	283	-	PF Z4
2017-S07	2457788.85	2017 Feb 4 0830	Terrier Terrier Oriole	-	Aegis SFTM-01 Target	MRBM-T4E	-	-	-	KAU	-	-	-	200?	-	-
2017-S15	2457806.93	2017 Feb 22 1014	Black Brant IX	-	NASA 36.303UE	ISINGLASS 1	-	-	-	PF	LC1	-	-	362	-	PF Z4
2017-S16	2457814.74	2017 Mar 2 0541:00	Black Brant IX	-	NASA 36.301GE	NJAA 1	Neutral Jets in Aur Arcs	-	-	PF	LC3	-	-	330	-	PF Z4
2017-S17	2457814.74	2017 Mar 2 0542:30	Black Brant IX	-	NASA 36.306GE	NJAA 2	Neutral Jets in Aur Arcs	-	-	PF	LC4	-	-	190	-	PF Z4
2017-S18	2457814.83	2017 Mar 2 0750:00	Black Brant IX	-	NASA 36.304UE	ISINGLASS 2	-	-	-	PF	LC2	-	-	365	-	PF Z4
2017-S51	2457827.50	2017 Mar 15	Terrier Oriole	?	AMDR Target	-	-	-	-	KAU	-	-	-	200?	-	-
2017-S29	2457879.27	2017 May 5 1824:58	Black Brant IX	-	NASA 36.309US	RAISE 3	-	-	-	WS	-	-	-	296	-	-
2017-S33	2457889.91	2017 May 16 0945:00	Black Brant IX	-	NASA 36.317GP	SubTec-7	-	-	-	WI	-	-	-	248	170	Atlantic
2017-S45	2457926.72	2017 Jun 22 0520	Terrier Terrier Oriole	?	Aegis SFTM-02 Target	MRBM-T4E?	-	-	-	KAU	-	-	-	200?	-	-
2017-S46	2457926.90	2017 Jun 22 0930	Terrier Improved Orion	-	NASA 41.121UO	Rock On 10/RockSat-C 9	-	-	-	WI	-	-	-	116	-	-
2017-S52	2457931.72	2017 Jun 27 0510	Black Brant IX	-	NASA 36.323UG	CHESS 3	-	-	-	WS	-	-	-	300?	-	-
2017-S50	2457933.85	2017 Jun 29 0825:00	Terrier Imp Malemute	-	NASA 46.015GT	Ampoule Test	-	-	-	WI	-	-	-	190	-	-
2017-S83	2457978.90	2017 Aug 13 0930:00	Terrier Imp Malemute	-	NASA 46.017UO	RockSat-X 7	-	-	-	WI	-	-	-	151	-	-
2017-S81	2458005.98	2017 Sep 9 1134:00	Black Brant IX	-	NASA 36.321UE	WINDY 1	-	-	-	KMR	-	-	-	409	-	-
2017-S82	2458005.99	2017 Sep 9 1139:03	Terrier Malemute	-	NASA 29.042UE	WINDY 2	-	-	-	KMR	-	-	-	400?	-	-
2017-M05	2458029.95	2017 Oct 3 1045	Black Brant IX	-	NASA 36.326NR	ASPIRE	-	-	-	WI	-	-	-	51	-	Atlantic
2017-S87	2458021.50	2017 Sep 25	Terrier Oriole	-	-	Aegis FS-17 Target	Formidable Shield 2017	-	-	SUIST	-	-	-	300?	-	-
2017-S88	2458041.50	2017 Oct 15	Terrier Oriole	-	-	Aegis FS-17 Target	Formidable Shield 2017	-	-	SUIST	-	-	-	320	-	-
2017-S95	2458056.92	2017 Oct 30 1000:00	Black Brant IX	-	NASA 36.311UG	DEUCE	-	-	-	WS	-	-	-	250?	-	WSMR
2018-S02	2458138.01	2018 Jan 19 1217	Black Brant IX	-	NASA 36.329UH	DXL-3	-	-	-	PF	LC4	-	-	230	-	-
2018-S03	2458145.09	2018 Jan 26 1411:15	Terrier Improved Orion	-	NASA 41.119CE	Super Soaker 1	-	-	-	PF	LC1?	-	-	160	-	-
2018-S04	2458145.12	2018 Jan 26 1448:00	Terrier Improved Orion	-	NASA 41.120CE	Super Soaker 2	-	-	-	PF	LC1?	-	-	100	-	-
2018-S05	2458145.12	2018 Jan 26 1449:30	Terrier Improved Orion	-	NASA 41.121CE	Super Soaker 3	-	-	-	PF	LC1?	-	-	160	-	-
2018-S14	2458202.95	2018 Mar 25 1051	Terrier Imp Malemute	-	NASA 46.019UO	USIP	-	-	-	WI	-	-	-	172	-	-
2018-M03	2458209.18	2018 Mar 31 1619	Black Brant IX	-	NASA 36.327NR	ASPIRE 2	-	-	-	WI	-	-	-	51	-	Atlantic
2018-S19	2458212.94	2018 Apr 4 1040	Black Brant IX	-	NASA 36.330UH	WRX-R	-	-	-	KMR	RN	-	-	204	-	-
2018-S22	2458225.20	2018 Apr 16 1647	Black Brant IX	-	NASA 36.333UG	CHESS 4	-	-	-	KMR	RN	-	-	200?	-	-
2018-S65	2458261.50	2018 May 23	Terrier Malemute	-	Sandia HOT SHOT 1	HOT SHOT 1	-	-	-	KAU	-	-	-	360	-	-
2018-S34	2458268.29	2018 May 29 1854	Black Brant IX	-	NASA 36.342NS	Hi-C 2.1	-	-	-	WS	-	-	-	250?	-	-
2018-S38	2458277.14	2018 Jun 7 1517:00	Black Dagger	-	NASA 12.081BZ-DR	Boosted Zombie	-	-	-	FTB	MCG	-	-	100?	-	-
2018-S39	2458288.29	2018 Jun 18 1900:00	Black Brant IX	-	NASA 36.336UE	SDO EVE Cal 7	-	-	-	WS	-	-	-	290	-	-
2018-S40	2458290.90	2018 Jun 21 0930	Terrier Improved Orion	-	NASA 41.125UO	Rock On 11/Rocksat-C 10	-	-	-	WI	-	-	-	120	-	-
2018-S42	2458322.75	2018 Jul 23 0600	Black Brant IX	-	NASA 36.245UH	MICRO-X	-	-	-	WS	-	-	-	270	-	-
2018-S44	2458344.93	2018 Aug 14 1013	Terrier Imp Malemute	-	NASA 46.021UO	RockSat-X 8	-	-	-	WI	-	-	-	158	-	-
2018-A134	2458369.06	2018 Sep 7 1330	Black Brant IX	-	NASA 36.328NR	ASPIRE 3	-	-	-	WI	-	-	-	51	-	-
2018-S49	2458369.22	2018 Sep 7 1721	Black Brant IX	-	NASA 36.325US	FOXSI 3	-	-	-	WS	-	-	-	304	-	-
2018-S50	2458373.86	2018 Sep 12 0837	Terrier Oriole	?	Aegis JFTM-05 Target	-	-	-	-	KAU	-	-	-	150?	-	-
2018-S71	2458459.96	2018 Dec 7 1106	Black Brant X	-	NASA 35.039GE	VISIONS-2 1	-	-	-	SVAL	-	-	-	805	-	-
2018-S72	2458459.96	2018 Dec 7 1108	Black Brant X	-	NASA 35.040GE	VISIONS-2 2	-	-	-	SVAL	-	-	-	600	-	-
2018-S80	2458470.82	2018 Dec 18 0746	Black Brant IX	4	NASA 36.331UG	DEUCE 2	-	-	-	WS	-	-	-	282	-	WSMR
2019-S02	2458496.88	2019 Jan 13 0913:00	Terrier Imp Malemute	-	NASA 46.018UO	G-CHASER/Rocksat-XN	-	-	-	AND	-	-	-	174	-	-
2019-S17	2458585.20	2019 Apr 11 1651	Black Brant IX	-	NASA 36.332NS	CLASP 2	-	-	-	WS	-	-	-	273	-	WSMR
2019-S25	2458596.50	2019 Apr 23	Terrier Malemute	-	Sandia HOT SHOT	HOT SHOT 2	-	-	-	KAU	-	-	-	320?	-	-
2019-S26	2458597.50	2019 Apr 24	Terrier Malemute	-	Sandia HOT SHOT	HOT SHOT 3	-	-	-	KAU	-	-	-	320?	-	-
2019-S29	2458653.98	2019 Jun 19 1128	Black Brant IX	-	NASA 36.344UE	TooWINDY 1	-	TMA/Li release	-	KMR	RN	-	-	373	-	-
2019-S30	2458653.98	2019 Jun 19 1133	Black Brant IX	-	NASA 36.345UE	TooWINDY 2	-	Density/fields	-	KMR	RN	-	-	412	-	-
2019-S31	2458654.90	2019 Jun 20 0930	Terrier Improved Orion	-	NASA 41.126UO	RockOn/RockSat-C	-	-	-	WI	-	-	-	117	-	-
2019-S43	2458706.75	2019 Aug 11 0607	Black Brant IX	-	NASA 36.346UG	SISTINE	-	-	-	WS	-	-	-	259	-	-
2019-S44	2458707.91	2019 Aug 12 0944	Terrier Imp Malemute	-	NASA 46.022UP	RockSat-X 9	-	-	-	WI	-	-	-	154	-	-
2019-S56	2458744.90	2019 Sep 18 0930?	Black Brant IX	-	NASA 36.340DR	-	-	-	-	WI	-	-	-	200?	-	-
2019-S57	2458757.25	2019 Sep 30 1804	Black Brant IX	-	NASA 36.320US	ESIS	-	-	-	WS	-	-	-	246	-	-
2019-S64	2458764.12	2019 Oct 7 1500	Black Brant IX	-	NASA 36.343GT?	DUST	-	-	-	WS	-	-	-	338	-	-
2019-S82	2458775.50	2019 Oct 19	Black Dagger	-	Black Dagger	FTX-39 Target	PAC-3 Target	-	-	FW	LC96	-	-	10?	-	-
2019-S65	2458781.50	2019 Oct 25 0000	Terrier Imp Malemute	-	NASA 46.020GT	SubTeC-8	-	-	-	WI	-	-	-	209	-	-
2019-S66	2458784.69	2019 Oct 28 0430	Black Brant IX	-	NASA 36.352UG	FORTIS 4	-	-	-	WS	-	-	-	261	-	-
2019-S73	2458813.82	2019 Nov 26 0743	Terrier Imp Malemute	-	NASA 46.029IE	ICI-5	-	-	-	SVAL	-	-	-	253	-	-
2019-S80	2458827.90	2019 Dec 10 0930	Black Brant IX	-	NASA 36.349UE	CHI	-	-	-	SVAL	-	-	-	360	-	-
2020-S12	2458876.07	2020 Jan 27 1340	Black Brant IX	-	NASA 36.356UE	Polar NOx 2	-	-	-	PF	-	-	-	260	-	-
2020-S29	2458900.07	2020 Feb 20 1337	Black Dagger	-	Black Dagger	FTP-27 E2	PAC-3 Target	-	-	FW?	LC96	-	-	100?	-	-
2020-S42	2459061.50	2020 Aug	Terrier Improved Orion	-	Pacific Dragon 2020	ARAV-A	-	-	-	KAU	-	-	-	100?	-	-
2020-S31	2459081.50	2020 Aug 20	Black Dagger	-	Black Dagger	IBCS-LUT PAC-3 Target	-	-	-	FW	LC96	-	-	100?	-	-
2020-S28	2459101.25	2020 Sep 8 1800	Black Brant IX	-	NASA 36.365G	DUST-2	-	-	-	WS	-	-	-	346	-	-
2020-S32	2459123.50	2020 Oct 1	Black Dagger	-	Black Dagger	FTP-27 E1	PAC-3 Target	-	-	FW	LC96	-	-	100?	-	-
2020-S37	2459155.94	2020 Nov 2 1040	Black Brant IX	-	NASA 36.368UG	DEUCE 3	-	-	-	WS	-	-	-	285	-	-
2021-S18	2459276.50	2021 Mar 3	Terrier Terrier Oriole	-	AFRL Chem. Release	PRECISE?	-	-	-	WI	-	-	-	300?	-	-
2021-S22	2459323.85	2021 Apr 19 0830	Black Brant IX	-	NASA 36.324US	SHIELDS	-	-	-	WS	-	-	-	285	-	-
2021-S25	2459353.27	2021 May 18 1830	Black Brant IX	-	NASA 36.322GS	EUNIS 4	-	-	-	WS	-	-	-	335	-	-
2021-A11	2459334.50	2021 May	Coyote	-	-	GQM-163A Target	-	-	-	SUIST	-	-	-	1	-	-
2021-S29	2459360.50	2021 May 26	Terrier Oriole	-	T4-B Target	ASD/FS-21	Formidable Shield	-	-	SUIST	-	-	-	300?	-	-
2021-S31	2459361.55	2021 May 27 0115	Terrier Imp Malemute	-	NASA 46.028UE	VIPER	-	-	-	WI	-	-	-	151?	-	-
2021-S32	2459364.50	2021 May 30	Terrier Oriole	-	T4-B Target	ASD/FS-21	Formidable Shield	-	-	SUIST	-	-	-	300?	-	-
2021-S34	2459372.77	2021 Jun 7 0625	Black Brant IX	-	NASA 36.281UG	CIBER-2 F1	-	-	-	WS	-	-	-	310	-	-
2021-S36	2459391.02	2021 Jun 25 1232	Terrier Improved Orion	-	NASA 41.130UO	RockOn/RockSat-C	-	-	-	WI	-	-	-	116	-	-
2021-S40	2459403.25	2021 Jul 7 1800	Black Brant IX	-	NASA 36.357GE	Dynamo-2	-	-	-	WI	-	-	-	123	-	-
2021-S42	2459407.25	2021 Jul 11 1756:00	Black Brant IX	-	NASA 36.358GE	Dynamo-2	-	-	-	WI	-	-	-	133	-	-
2021-S46	2459419.50	2021 Jul 24	Terrier Oriole	?	FTM-33 Target 1	-	-	-	-	KAU	-	-	-	100?	-	-
2021-S47	2459419.50	2021 Jul 24	Terrier Oriole	?	FTM-33 Target 2	-	-	-	-	KAU	-	-	-	100?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-S50	2459426.26	2021 Jul 30 1820	Black Brant IX	-	NASA 36.319NS	MaGIXS	-	-	-	WS	-	-	-	300	-	-
2021-S54	2459446.38	2021 Aug 19 2100:00	Terrier Imp Malemute	-	NASA 46.030UO	RockSat-X	-	-	-	WI	-	-	-	158	-	-
2021-S58	2459467.23	2021 Sep 9 1725	Black Brant IX	-	NASA 36.353US	SDO EVE Cal 8	-	-	-	WS	-	-	-	293	-	-
2021-S60	2459469.42	2021 Sep 11 2207:30	Terrier Imp Malemute	-	NASA 46.033AR	HOT SHOT	-	-	-	WI	LA2 ARC	-	-	200?	-	-
2021-S68	2459496.24	2021 Oct 8 1740	Black Brant IX	-	NASA 36.374NS	CLASP-2.1	-	-	-	WS	-	-	-	272	-	-
2021-S71	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 1	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2021-S72	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 2	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2021-S73	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 3	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2021-S85	2459526.89	2021 Nov 8 0925	Black Brant IX	-	NASA 36.373UG	SISTINE-2	-	-	-	WS	-	-	-	257	-	-
2022-S01	2459588.71	2022 Jan 9 0500	Black Brant IX	-	NASA 36.363UH	DXL-4	-	-	-	WI	-	-	-	267	-	-
2022-S17	2459643.98	2022 Mar 5 1127	Black Brant IX	-	NASA 36.351GE	LAMP	-	Az 353.6	-	PF	LC3 L2	-	-	430	-	-
2022-S18	2459648.27	2022 Mar 9 1825	Black Brant IX	-	NASA 36.307DS	HERSCHEL	-	-	-	WS	-	-	-	302	-	-
2022-S23	2459650.50	2022 Mar 12	Black Dagger	-	IFMC Target	Black Dagger	-	-	-	FW	LC96	-	-	100?	-	WSMR
2022-S19	2459660.47	2022 Mar 21 2312	Terrier Imp Malemute	-	NASA 46.027DR	BOLT 2	-	-	-	WI	-	-	-	281	-	-
2022-S20	2459667.50	2022 Mar 29	Black Dagger	-	THAAD FTT-21 Target	Black Dagger	PAC-3 target	-	-	FW	LC96	-	-	100?	-	WSMR
2022-S25	2459677.03	2022 Apr 7 1247	Terrier Imp Malemute	-	NASA 46.031UE	INCAA 1	-	-	-	PF	-	-	-	340	-	-
2022-S26	2459677.03	2022 Apr 7 1250	Black Brant IX	-	NASA 36.360UE	INCAA 1	-	-	-	PF	-	-	-	208	-	-
2022-S31	2459710.56	2022 May 11 0131	Oriole IIIA	-	NASA 47.001GE	ENDURANCE	-	-	-	SVAL	-	-	-	764	-	-
2022-S54	2459754.90	2022 Jun 24 0935	Terrier Improved Orion	-	NASA 41.131UO	RockOn	-	-	-	WI	-	-	-	117	-	-
2022-S57	2459757.10	2022 Jun 26 1429	Black Brant IX	-	NASA 36.347UH	XQC F7	-	-	-	ARNHEM	-	-	-	327	-	-
2022-S58	2459767.07	2022 Jul 6 1347	Black Brant IX	-	NASA 36.339UG	SISTINE 3	-	-	-	ARNHEM	-	-	-	243	-	-
2022-S59	2459771.96	2022 Jul 11 1101	Black Brant IX	-	NASA 36.350UG	DEUCE 4	-	-	-	ARNHEM	-	-	-	262	-	-
2022-S99	2459800.50	2022 Aug 9	Terrier Oriole	-	Target	ARAV-B	-	-	-	KAU	-	-	-	100?	-	-
2022-S78	2459803.42	2022 Aug 11 2208:32	Terrier Imp Malemute	-	NASA 46.036UO	ROCKSAT-X	-	-	-	WI	-	-	-	120?	-	-
2022-S81	2459813.73	2022 Aug 22 0530	Black Brant IX	-	NASA 36.355UH	MICRO-X 2	-	-	-	WS	-	-	-	254	-	-
2022-S83	2459815.55	2022 Aug 24 0116:00	Terrier Imp Malemute	-	NASA 46.025UE	SpEED Demon	Sporadic E Elecdyn Demo	-	-	WI	-	-	-	160?	-	-
2022-S87	2459848.67	2022 Sep 26 0410	Black Brant IX	-	NASA 36.367UH	tREXS	-	-	-	WS	-	-	-	252	-	-
2022-S106	2459879.27	2022 Oct 26 1830	Terrier Imp Malemute	?	HOTH 2-1	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2022-S115	2459879.50	2022 Oct 27	Terrier Imp Malemute	?	HOTH 2-2	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2022-S123	2459899.50	2022 Nov 16	Terrier Terrier Oriole	-	T4-E Target	JFTM-07 E1 Target	-	-	-	KAU	-	-	-	300?	-	-
2022-S125	2459902.50	2022 Nov 19	Terrier Oriole	?	SRBM Target	JFTM-07 E2 Target	-	-	-	KAU	-	-	-	150?	-	-
2022-S127	2459904.22	2022 Nov 20 1720:00	Black Brant IX	-	NASA 36.359UE	ACES II	-	-	-	AND	-	-	-	406	-	-
2022-S128	2459904.22	2022 Nov 20 1721:40	Black Brant IX	-	NASA 36.364UE	ACES II	-	-	-	AND	-	-	-	188	-	-
2023-S08	2460027.38	2023 Mar 23 2100:00	Terrier Improved Orion	-	NASA 41.127UE	VortEX 1A	-	-	-	AND	-	-	-	149	-	-
2023-S09	2460027.38	2023 Mar 23 2102:00	Black Brant IX	-	NASA 36.361UE	VortEX 1B	-	-	-	AND	-	-	-	363	-	-
2023-A12	2460051.71	2023 Apr 17 0503	Black Brant IX	-	NASA 36.383UG	CIBER-2 F2	-	-	-	WS	-	-	-	1?	-	-
2023-S23	2460060.47	2023 Apr 25 2315:00	Terrier Imp Malemute	-	NASA 46.032WT	SubTEC 9	-	-	-	WI	-	-	-	137?	-	-
2023-S24	2460068.27	2023 May 3 1830:00	Black Brant IX	-	NASA 36.389US	SDO EVE Cal 9	-	-	-	WS	-	-	-	290?	-	-
2023-S30	2460122.33	2023 Jun 26 2000	Terrier Terrier Oriole	?	-	VMAX	-	-	-	CEL	SUD-1	-	-	200?	-	-
2023-S35	2460172.93	2023 Aug 16 1021:00	Terrier Imp Malemute	-	NASA 46.038UO	Rocksat-X	-	-	-	WI	LA2	-	-	100?	-	-
2023-S36	2460173.92	2023 Aug 17 1000:00	Terrier Improved Orion	-	NASA 41.132UO	RockOn	-	-	-	WI	LA2	-	-	117	-	-
2023-S43	2460227.83	2023 Oct 10 0800:00	Black Brant IX	-	-	DLR HIFLIER-1	-	-	-	ESR	S	-	-	280?	-	-
2023-S44	2460232.17	2023 Oct 14 1600	Black Brant IX	-	NASA 36.386HE	APEP Apophis 1	-	-	-	WS	-	-	-	346?	-	-
2023-S45	2460232.19	2023 Oct 14 1635	Black Brant IX	-	NASA 36.387HE	APEP Apophis 2	-	-	-	WS	-	-	-	346?	-	-
2023-S46	2460232.22	2023 Oct 14 1710	Black Brant IX	-	NASA 36.388HE	APEP Apophis 3	-	-	-	WS	-	-	-	346?	-	-
2023-S47	2460242.50	2023 Oct 25	Terrier Oriole	?	SRBM Target	Aegis FTM-48 Target 1	-	-	-	KAU	-	-	-	100?	-	-
2023-S48	2460242.50	2023 Oct 25	Terrier Oriole	?	SRBM Target	Aegis FTM-48 Target 2	-	-	-	KAU	-	-	-	100?	-	-
2023-S59	2460247.74	2023 Oct 30 0545	Black Brant IX	-	NASA 36.375UG	INFUSE	-	-	-	WS	-	-	-	267	-	-
2023-S61	2460256.90	2023 Nov 8 0941:00	Terrier Oriole	-	NASA 45.007GE	DISSIPATION	-	-	-	PF	LC3	-	-	250?	-	-
2023-S64	2460263.50	2023 Nov 15	Terrier Terrier Imp Mal.	-	H4H 4?	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2023-S65	2460263.50	2023 Nov 15	Terrier Terrier Imp Mal.	-	H4H 5?	Hypersonic test	-	-	-	WI	-	-	-	200?	-	-
2024-S13	2460409.28	2024 Apr 8 1840:00	Black Brant IX	-	NASA 36.392UE	APEP 2 A	-	-	-	WI	LA2 MRL	-	-	420?	-	-
2024-S14	2460409.31	2024 Apr 8 1925:00	Black Brant IX	-	NASA 36.393UE	APEP 2 B	-	-	-	WI	LA2 ARC	-	-	420?	-	-
2024-S15	2460409.35	2024 Apr 8 2028:00	Black Brant IX	-	NASA 36.394UE	APEP 2 C	-	-	-	WI	LA1 AML	-	-	420?	-	-
2024-S31	2460418.43	2024 Apr 17 2213:00	Black Brant IX	-	NASA 36.370US	FOXSI-4	-	-	-	PF	LC3?	-	-	271	-	-
2024-S32	2460418.43	2024 Apr 17 2214:00	Black Brant IX	-	NASA 36.371NS	Hi-C Flare	SSAXI	-	-	PF	LC4?	-	-	271	-	-
2024-S33	2460435.65	2024 May 5 0332:00	Black Brant IX	-	NASA 36.396UG	CIBER-2 F3	-	-	-	WS	-	-	-	300?	-	-
2024-S38	2460473.50	2024 Jun 12	Terrier Terrier Oriole	?	HTB-1	Erinyes	HTBSS Target	-	-	WI	-	-	-	200?	-	-
2024-S40	2460481.94	2024 Jun 20 1030	Terrier Improved Orion	-	NASA 41.133WO	RockOn	-	-	-	WI	-	-	-	114	-	-
2024-S44	2460508.29	2024 Jul 16 1901:00	Black Brant IX	-	NASA 36.385NS	MaGIXS 2	-	-	-	WS	-	-	-	347	-	-
2024-S48	2460535.92	2024 Aug 13 1000:00	Terrier Imp Malemute	-	NASA 46.042WO	Rocksat-X	-	-	-	WI	LA2	-	-	164	-	-
2024-S50	2460548.67	2024 Aug 26 0400	Black Brant IX	-	NASA 36.384UG	OAxFORTIS	-	-	-	WS	-	-	-	272	-	-
2024-S53	2460557.31	2024 Sep 3 1921:00	Black Brant IX	-	NASA 36.366US	FURST	-	-	-	WS	-	-	-	300?	-	-
2024-S61	2460582.25	2024 Sep 28 1800	Terrier Oriole	?	JAKE	-	-	-	-	WI	-	-	-	100?	-	-
2024-S65	2460608.47	2024 Oct 24 2310	Terrier Oriole	?	-	-	-	-	-	WI	-	-	-	100?	-	-
2024-A11	2460622.21	2024 Nov 7 1700?	Coyote	?	-	Rocket Propelled Target	-	-	-	WI	-	-	-	1?	-	-
2024-A12	2460622.21	2024 Nov 7 1700?	Coyote	?	-	Rocket Propelled Target	-	-	-	WI	-	-	-	1?	-	-
2024-S69	2460625.40	2024 Nov 10 2136:00	Black Brant IX	-	NASA 36.362UE	VORTEX 2A	-	-	-	AND	-	-	-	358	-	-
2024-S70	2460625.40	2024 Nov 10 2138:00	Terrier Improved Orion	-	NASA 41.128UE	VORTEX 2B	-	-	-	AND	-	-	-	144	-	-
2024-S86	2460638.00	2024 Nov 23 1158:00	Black Brant IX	-	NASA 36.382UE	B-SPICE	-	-	-	WS	-	-	-	200?	-	-
2025-S02	2460689.51	2025 Jan 14 0015	Terrier Terrier Oriole	-	HTB-2	-	-	-	-	WI	-	-	-	200?	-	-
2025-S04	2460708.80	2025 Feb 2 0707	Black Brant IX	-	NASA 36.381GE	GIRAFF 2	-	-	-	PF	LC3	-	-	200?	-	-
2025-S06	2460715.86	2025 Feb 9 0835	Black Brant IX	-	NASA 36.380GE	GIRAFF 1	-	-	-	PF	LC4	-	-	200?	-	-
2025-S13	2460759.99	2025 Mar 25 1152	Terrier Imp Malemute	-	NASA 46.034UE	AWESOME 1	-	-	-	PF	LC1	-	-	170?	-	-
2025-S15	2460763.90	2025 Mar 29 0930	Terrier Imp Malemute	-	NASA 46.035UE	AWESOME 3	-	-	-	PF	LC2	-	-	170?	-	-
2025-S27	2460846.85	2025 Jun 20 0827	Terrier Imp Malemute	-	NASA 46.026UE	SEED 1	SpE Electrodynamics	-	-	KMR	-	-	-	155	-	-
2025-S28	2460852.90	2025 Jun 26 0930	Terrier Improved Orion	-	NASA 41.134WO	RockOn	-	-	-	WI	-	-	-	114?	-	-
2025-S30	2460854.84	2025 Jun 28 0811	Terrier Imp Malemute	-	NASA 46.037UE	SEED 2	SpE Electrodynamics	-	-	KMR	-	-	-	157	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1952-A285	2434324.23	1952 Nov 7 1734	Terrier	-	-	0.000	BUORD	AS	-	ORDRSA/	Test	WS-TM55	-	-
1959-A74	2436689.50	1959 May 1	Terrier ASROC Cajun	-	Terasca	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	-
1959-S97	2436745.50	1959 Jun 26	Terrier ASROC Cajun	-	Terasca	0.000	NOTS	SS	-	NOTS/	Test	NOTS	-	-
1959-A135	2436792.50	1959 Aug 12	Terrier ASROC Cajun	-	Terasca	0.000	NOTS	SF	U	NOTS/	Test	NOTS	-	-
1959-S191	2436841.50	1959 Sep 30	Terrier Asp	-	Tarp	0.000	NOTS	SS	-	NOTS/	Test	NOTS	-	-
1960-A378	2437085.50	1960 Jun	Terrier Asp	-	Tarp	0.000	NOTS	SF	U	NOTS/	Test	NOTS4	-	-
1960-A379	2437115.50	1960 Jul?	Terrier Asp	-	Tarp	0.000	NOTS	SF	U	NOTS/	Test	NOTS4	-	-
1960-A380	2437177.50	1960 Sep?	Terrier Asp	-	Tarp	0.000	NOTS	SF	U	NOTS/	Test	NOTS4	-	-
1960-S507	2437207.50	1960 Oct	Terrier Asp	-	Tarp	0.000	NOTS	SS	-	NOTS/	Test	NOTS4	-	-
1961-S455	2437478.12	1961 Jun 27 1500	Hugo	-	Hugo III S/N-D2	0.000	NMC?	SS	-	NMSU/	Imaging	NMSU	-	-
1962-S67	2437738.15	1962 Mar 14 1542	Terrier Asp IV	-	-	0.000	NOTS	SS	-	NOTS/	Test/Comms	Ulrich/UPI	MR620319-10	-
1962-A251	2437714.50	1962 Feb 19	Terrier Viper I	-	HITAB-BWSS-01	0.000	NOTS	SF	U	NOTS/	IR background	NAVWEPS-8738	-	-
1962-S638	2437838.50	1962 Jun 23	Terrier Viper I	-	HITAB-BWSS-02	0.000	NOTS	SU	-	NOTS/	IR background	NAVWEPS-8738	-	No telem
1962-S562	2438011.50	1962 Dec 13	Terrier Asp IV	-	-	0.000	NOTS	SU	-	NOTS/	Test	VAFB	Morrow	-
1963-S636	2438360.50	1963 Nov 27	Terrier Viper I	-	HITAB-BWSS-03	0.000	NOTS	SS	-	NOTS/	IR background	NAVWEPS-8738	-	No telem
1964-S803	2438554.50	1964 Jun 8	Hugo	-	Hugo IV	0.000	NMC	SS	-	PMR/	Test	PMRHist64	-	-
1964-A104	2438584.50	1964 Jul 8	Terrier Tomahawk	-	Sandia 152-63	0.000	SAND	SF	U	SAND/	Aeron?	FDS	-	-
1964-A205	2438606.50	1964 Jul 30	Hugo	-	Hugo IV	0.000	NMC	SF	U	PMR/	Test	PMRHist64	-	-
1964-A124	2438632.52	1964 Aug 25 0030	Terrier Tomahawk	-	Sandia 152-68	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1964-S804	2438668.50	1964 Sep 30	Hugo	-	Hugo IV	0.000	NMC	SS	-	PMR/	Meteo	PMRHist64	-	-
1964-S806	2438683.50	1964 Oct 15	Terrier Hydac	-	-	0.000	NOTS?	SS	-	USN/	Test	PMRHist64	-	-
1964-A154	2438684.50	1964 Oct 16	Terrier Tomahawk	-	Sandia 152-70	0.000	SAND	SF	U	SAND/	Aeron?	FDS	-	-
1965-S792	2438828.50	1965 Mar 9	Terrier Hydac	-	-	0.000	NOTS?	SS	-	USN/	Test	PMRHist65	-	-
1965-A147	2439053.50	1965 Oct 20	Terrier/551	-	-	0.000	NMC	SF	U	NMC/	Test	SRctConf67-342	-	-
1965-A190	2439095.56	1965 Dec 1 0128:20?	Terrier	?	-	0.000	NOTS?	MS	-	USN/	Intercept	ARPA-TR-DAT-1-66	-	-
1966-S142	2439199.50	1966 Mar 15?	Terrier Hydac	-	-	0.000	NOTS?	SS	-	USN/	Test	Ulrich/RedlandsDF	AWST660404-69	-
1966-S412	2439339.50	1966 Aug 2	Terrier/551	-	-	0.000	NMC	SS	-	NMC/	Test	SRctConf67-342	-	-
1967-S446	2439754.50	1967 Sep 21	Terrier Sandhawk	-	Sandia 281-7	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1967-S468	2439766.50	1967 Oct 3	Terrier Sandhawk	-	Sandia 281-8	0.000	SAND	SS	-	SAND/	Aeron?	FDS	-	-
1968-S556	2440158.98	1968 Oct 29 1132	Terrier Sandhawk	-	Sandia 281-10	0.000	SAND	SS	-	LRL/	XR Astron	UCRL-50587	-	-
1968-S572	2440167.78	1968 Nov 7 0645	Terrier Sandhawk	-	Sandia 281-11	0.000	SAND	SS	-	LRL/	XR Astron	UCRL-50587	-	-
1968-S687	2440171.50	1968 Nov 11	Terrier Tomahawk	-	-	0.000	SAND	SF	U	SAND/	Aeron?	SRctCon2	-	-
1969-S208	2440300.73	1969 Mar 20 0537	Terrier Sandhawk	-	SECEDE R8	0.000	ARPA	SS	-	UAF/LASL/	Aeron/Fields/Ba	WWW-PFRR	-	-
1969-S342	2440365.74	1969 May 24 0552:44	Terrier Tomahawk	-	Sandia 152-126	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1970-S356	2440719.84	1970 May 13 0803	Terrier Sandhawk	-	Sandia 281-14	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1970-S666	2440721.97	1970 May 15 1114	Terrier Sandhawk	-	-	0.000	SAND	SS	-	LASL/Blair	IR Astron	ApplOpt10,1043	-	-
1970-S359	2440722.74	1970 May 16 0545	Terrier Sandhawk	-	SECEDE R9	0.000	SAND	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	-	-
1970-A169	2440727.50	1970 May 21	Terrier Recruit	-	Sandia	0.000	SAND	SF	U	SAND/Rollstin	Test	SandNews700619	SRCON3	-
1970-S371	2440732.74	1970 May 26 0550	Terrier Sandhawk	?	SECEDE R10	0.000	ARPA	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	WDCRF	-
1970-S683	2440732.88	1970 May 26 0910	Terrier Sandhawk	?	Sandia 281-16	0.000	SAND	SS	-	SAND/Smith	Ionos	USCOSPAR71	-	-
1970-S387	2440743.74	1970 Jun 06 0550	Terrier Sandhawk	?	SECEDE R11	0.000	ARPA	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	WDCRF	-
1970-A170	2440767.50	1970 Q3?	Terrier Recruit	-	Sandia	0.000	SAND	SS	-	SAND/Rollstin	Test	SRCON3	-	-
1970-A173	2440859.50	1970 Oct	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	-	-
1971-S68	2440968.48	1971 Jan 16 2332	Terrier Tomahawk	-	SECEDE R12	0.000	SAND/ARPA	SS	-	UAF/LASL/Davis	Aeron	PlanSpaceSci22,67	WDCRF	-
1971-S658	2440972.49	1971 Jan 20 2345:31	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S72	2440972.49	1971 Jan 20 2345	Terrier Tomahawk	-	SECEDE R13	0.000	SAND/ARPA	SS	-	UAF/LASL/Davis	Aeron	PlanSpaceSci22,67	WDCRF	-
1971-S93	2440978.46	1971 Jan 26 2258	Terrier Tomahawk	-	SECEDE	0.000	SAND/ARPA	SS	-	UAF/Davis	Test	AFCRL2	-	-
1971-S659	2440978.49	1971 Jan 26 2349:51	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S94	2440978.49	1971 Jan 26 2350	Terrier Tomahawk	-	SECEDE R14/R15	0.000	SAND/ARPA	SS	-	UAF/LASL/Davis	Aeron	PlanSpaceSci22,67	WDCRF	-
1971-S102	2440980.46	1971 Jan 28 2257	Terrier Tomahawk	-	SECEDE	0.000	SAND/ARPA	SS	-	UAF/Davis	Aeron/Fields	AFCRL2	-	-
1971-S660	2440981.49	1971 Jan 29 2352:17	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S661	2440981.52	1971 Jan 30 0024:00	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S633	2440984.45	1971 Feb 1 2255	Terrier Tomahawk	-	SECEDE R17/R18	0.000	SAND/ARPA	SS	-	UCB/UAF/Schutz	Aeron/Fields	AFCRL2	JGR78,6634	-
1971-S108	2440984.46	1971 Feb 1 2257	Terrier Tomahawk	-	SECEDE R18	0.000	SAND/ARPA	SS	-	UAF/Davis	Ionos/Fields	AFCRL2	JGR78,6634	-
1971-S662	2440983.50	1971 Feb 1 0001:24	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S657	2440985.19	1971 Feb 2 1632:31	Terrier Tomahawk	?	SECEDE	0.000	SAND/ARPA	SS	-	BRL/Dean	Ionos	BRL-1825	-	-
1971-S110	2440985.19	1971 Feb 2 1635	Terrier Tomahawk	-	SECEDE R19	0.000	SAND/ARPA	SS	-	UAF/Davis	Aeron/Ionos/Fields	AFCRL2	-	-
1971-S111	2440985.19	1971 Feb 2 1636	Terrier Tomahawk	-	SECEDE R20	0.000	SAND/ARPA	SS	-	UAF/Davis	Aeron/Fields	AFCRL2	-	-
1971-A28	2441018.98	1971 Mar 8 1138	Terrier Tomahawk	-	-	0.000	SAND	SF	U	LASL/Theobald	Auroral UV	WWW-PFRR	-	-
1971-A170	2441025.50	1971 Mar 15	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	-	-
1971-A171	2441036.50	1971 Mar 26	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	-	-
1971-S632	2441093.73	1971 May 22 0530	Terrier Sandhawk	-	-	0.000	SAND	SS	-	LASL/Singer	XR Astron	IEEE-NS19,1,628	-	-
1971-S303	2441097.91	1971 May 26 0947	Terrier Sandhawk	-	Sandia 281-19?	0.000	SAND	SS	-	LRL/Seward	XR Astron	FDS	LRL-ENN73-172	-
1971-S319	2441100.95	1971 May 29 1048	Terrier Sandhawk	-	-	0.000	SAND	SS	-	LASL/Blair	IR Astron	PRL27,1154	NatureaPS234,26	-
1971-S538	2441248.02	1971 Oct 23 1225	Terrier Sandhawk	-	Sandia 281-23	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1971-S539	2441248.69	1971 Oct 24 0430	Terrier Tomahawk	-	SECEDE I R21	0.000	SAND/BRL	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	-	-
1971-S540	2441248.69	1971 Oct 24 0434	Terrier Tomahawk	-	SECEDE I R22	0.000	SAND/BRL	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	-	-
1971-S552	2441263.69	1971 Nov 8 0428	Terrier Tomahawk	-	SECEDE I R23	0.000	SAND/BRL	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	-	-
1971-S553	2441263.69	1971 Nov 8 0432	Terrier Tomahawk	-	SECEDE I R24	0.000	SAND/BRL	SS	-	UAF/LASL/Davis	Aeron/Fields	PlanSpaceSci22,67	-	-
1972-A124	2441351.35	1972 Feb 3 2017	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	SFLT15,392	-
1972-A132	2441365.12	1972 Feb 17 1456	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	SFLT15,392	-
1972-A125	2441365.13	1972 Feb 17 1512	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	SFLT15,392	-
1972-S116	2441392.91	1972 Mar 16 0954	Terrier Sandhawk	-	Sandia 281-24	0.000	SAND	SS	-	LASL/Theobald	Auroral?	WWW-PFRR	-	-
1972-A126	2441394.39	1972 Mar 17 2120:38	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	WFF/	Test	SLA-73-0565	SFLT15,392	-
1972-S121	2441393.90	1972 Mar 17 0939	Terrier Sandhawk	-	Sandia 281-25	0.000	SAND	SS	-	LASL/Theobald	Auroral?	WWW-PFRR	-	-
1972-A127	2441399.16	1972 Mar 22 1548	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Tech	SLA-73-0565	SFLT15,392	-
1972-S196	2441454.97	1972 May 17 1112	Terrier Sandhawk	-	-	0.000	SAND	SS	-	LASL/Blair,Williamson	IR Astron	NaturePS241,79	-	-
1972-S206	2441457.89	1972 May 20 0924:30	Terrier Tomahawk	-	Sandia 281-?	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1972-S257	2441509.29	1972 Jul 10 1851	Terrier Sandhawk	-	Sandia 281-28	0.000	SAND	SS	-	LASL/Hansen	Solar Eclipse	WWW-PFRR	-	-
1972-A128	2441546.13	1972 Aug 16 1502	Terrier Recruit	-	-	0.000	SAND	AS	-	WFF/	Test	SFLT15,392	-	-
1972-S355	2441611.01	1972 Oct 20 1217:30	Terrier Sandhawk	-	Sandia 281-29	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1972-S356	2441612.02	1972 Oct 21 1234:51	Terrier Tomahawk	-	Sandia 152-197	0.000	SAND	SS	-	LRL/Hall	XR Astron	FDS	LRL-ENN73-172	-
1973-A89	2441716.09	1973 Feb 2 1408:00	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1973-A90	2441716.09	1973 Feb 2 1408:30	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1973-A91	2441740.94	1973 Feb 27 1040:00	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1973-A92	2441740.94	1973 Feb 27 1040:30	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1973-S208	2441856.95	1973 Jun 23 1045:30	Terrier Sandhawk	-	Sandia 281-32	0.000	SAND	SS	-	LRL/	XR Astron	FDS	LRL-ENN73-172	-
1973-A93	2441862.30	1973 Jun 28 1906	Terrier Recruit	-	-	0.000	SAND	AS	-	WFF/	Test	FDC/Ulrich	-	-
1973-A94	2441986.50	1973 Nov	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1974-A01	2442047.50	1974	Terrier Nike	-	Sandia NRV	0.000	SAND	AS	-	SAND/	Test	ROTW2004	-	-
1974-A60	2442073.92	1974 Jan 26 0959	Terrier Tomahawk	-	Sandia 152-202	0.000	SAND	SF	U	LRL/	XR Astron	FDS	-	-
1974-A72	2442074.25	1974 Jan 26 1800	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1974-A70	2442145.50	1974 Apr 8	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1974-A71	2442145.50	1974 Apr 8	Terrier Recruit	-	Sandia	0.000	SAND	AS	-	SAND/	Test	FDC/Ulrich	-	-
1974-S225	2442218.72	1974 Jun 20 0511	Terrier Sandhawk	-	Sandia	0.000	SAND	SS	-	SAND/UCO/	Solar UV Eclipse	Philp74	SRctCon3	-
1974-S226	2442218.72	1974 Jun 20 0511	Terrier Sandhawk	-	Sandia	0.000	SAND	SS	-	SAND/UCO/	Solar UV Eclipse	Philp74	SRctCon3	-
1974-S259	2442228.96	1974 Jun 30 1104:00	Terrier Sandhawk	-	Sandia 281-?	0.000	SAND	SS	-	LRL/Hill,Seward	XR Astron	FDS	-	-
1974-S374	2442362.01	1974 Nov 10 1209:00	Terrier Sandhawk	-	Sandia 281-3	0.000	SAND	SS	-	LEID/NAG/Bleeker	XR Astron	ISRJ29-1	-	-
1974-A51	2442362.50	1974 Nov 11	Terrier Malemute	-	Sandia 497-002	0.000	SAND	SF	U	SAND/	Test	SRctCon2	-	-
1975-S150	2442542.08	1975 May 9 1400	Terrier Sandhawk	-	Sandia	0.000	SAND	SS	-	LASL/Benton	Monitoring	SRctCon3	-	-
1975-S151	2442544.50	1975 May 12	Terrier Malemute	-	Sandia 497-004	0.000	SAND	SS	-	SAND/	Test	SRctCon2	-	-
1975-S154	2442546.50	1975 May 14	Terrier Tomahawk	-	Sandia	0.000	SAND	SS	-	-	Plasma Ba	SRctCon3	-	-
1975-S155	2442547.50	1975 May 15	Terrier Tomahawk	-	Sandia	0.000	SAND	SS	-	-	Plasma Ba	SRctCon3	-	-
1975-S216	2442591.34	1975 Jun 27 2010	Terrier Malemute	-	NASA 29.02GT	0.000	GSFC	SF	U	GSFC/Bolster	Test	WDCRF	SRctCon2	-
1976-S58	2442793.27	1976 Jan 15 1830	Terrier Malemute	-	NASA 12.34CT-GT	0.000	GSFC	SF	S2	GSFC/Bolster	Test	WDCRF	SRctCon2	-
1976-S448	2442913.78	1976 May 15 0642	Terrier Sandhawk	-	Sandia	0.000	SAND	SS	-	LASL/	XR Astron	Ulrich	-	-
1976-S189	2442927.91	1976 May 29 0949:30	Terrier Sandhawk	-	Sandia 281-042	0.000	SAND	SS	-	LEID/NAG/Bleeker,Ha	XR Astron	AAp69,145	SRJ	-
1976-S197	2442935.86	1976 Jun 6 0844	Terrier Sandhawk	?	Sandia	0.000	SAND	SS	-	LASL/?	XR Astron	Powell	-	-
1976-S246	2443002.30	1976 Aug 11 1912	Terrier Malemute	-	NASA 12.36GT	0.000	GSFC	SS	-	GSFC/Bolster	Test	WDCRF	-	-
1976-S339	2443110.37	1976 Nov 27 2051:41	Terrier Malemute	-	NASA 29.05IE	0.000	GSFC	SS	-	OSLO/NDRE/Egeland	Auroral	AND	ESA-SP291-71	-
1977-S39	2443157.93	1977 Jan 14 1018:10	Terrier Malemute	-	NASA 29.03AE	0.000	GSFC	SS	-	NOAA/Evans	Auroral/Aeron/Ionos	WDCRF	-	-
1977-A05	2443161.74	1977 Jan 18 0543:20	Terrier Malemute	-	NASA 29.04UE	0.000	GSFC	SF	U	UWI/Scherb	Auroral/Plasma	WDCRF	-	-
1977-S238	2443388.74	1977 Sep 2 0550:54	Terrier Sandhawk	-	Lagopedo Uno	0.000	SAND	SS	-	LASL/	Active Ionos	IonosEffects442	IonosEffects438	-
1977-S243	2443396.50	1977 Sep 10	Terrier Malemute	-	Sandia 497-008	0.000	SAND	SS	-	SAND/	Test	SRctCon6	-	-
1977-S244	2443398.75	1977 Sep 12 0600:09	Terrier Sandhawk	-	Lagopedo Dos	0.000	SAND	SS	-	LASL/	Active Ionos	IonosEffects442	IonosEffects438	-
1978-S56	2443541.87	1978 Feb 2 0854	Terrier Malemute	-	NASA 29.08UE	0.000	GSFC	SS	-	UWI/Scherb	Plasma	WDCRF	-	-
1978-S90	2443576.84	1978 Mar 9 0813:10	Terrier Malemute	-	NASA 29.07UE	0.000	GSFC	SS	-	RICE/Anderson	Plasma	WDCRF	-	-
1979-S45	2443899.96	1979 Jan 26 1101	Terrier Malemute	-	NASA 29.13UE	0.000	GSFC	SF	U	RICE/Anderson	Plasma	WDCRF	www.pfrr.alaska.edu	-
1979-S124	2443978.90	1979 Apr 15 0931:01	Terrier Malemute	-	NASA 29.11GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1979-S125	2443981.88	1979 Apr 18 0909	Terrier Malemute	-	NASA 29.12GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WDCRF	-	-
1979-S165	2444071.02	1979 Jul 16 1231:30	Terrier Malemute	-	Sandia 497-011	0.000	SAND	SS	-	NRL/Szuszczewicz	Aeron/Release	IJRSP19,215	SRctCon6	-
1979-S172	2444077.91	1979 Jul 23 0957:30	Terrier Malemute	-	Sandia 497-012	0.000	SAND	SS	-	NRL/Szuszczewicz	Aeron/Release	SRctCon6	-	-
1979-S218	2444159.50	1979 Oct 13	Terrier Malemute	-	Sandia 497-010	0.000	SAND	SS	-	SAND/LASL/	Test/Release	SRctCon6	LA-8048-MS	-
1980-S30	2444265.89	1980 Jan 27 0917	Terrier Malemute	-	NASA 29.14UE	0.000	GSFC	SS	-	UMN/Cahill	Plasma	JGR94,453	WDCRF	-
1980-S221	2444578.46	1980 Dec 4 2305:00	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1980-S224	2444580.46	1980 Dec 6 2305:00	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1980-S225	2444582.47	1980 Dec 8 2310:00	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1980-S226	2444582.49	1980 Dec 8 2338:36	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1980-S227	2444582.49	1980 Dec 8 2351:36	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1980-S234	2444586.47	1980 Dec 12 2311:00	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	NRL-MR-4476	-
1980-S235	2444586.49	1980 Dec 12 2342:50	Terrier Tomahawk	-	-	0.000	SAND/DNA	SS	-	SAND/Rollstin	Plasma/Ionos	SRctCon6	-	-
1981-S144	2444830.82	1981 Aug 14 0743	Black Brant X	-	NASA 12.38GT	0.000	GSFC	SS	-	GSFC/Lane	Test	WI-PR81-12	ESA-SP229-206	-
1981-S175	2444939.57	1981 Dec 1 0138	Black Brant X	-	NASA 35.001UE	0.000	GSFC	SS	-	SWRI/Winningham	Plasma	CanJPhys64,1412	ESA-SP229-206	-
1981-S178	2444945.50	1981 Dec 7 0000:40	Terrier Malemute	-	NASA 29.17CE	0.000	GSFC	SS	-	AERO/Christensen	Plasma	CanJPhys67,82	-	-
1981-S184	2444952.45	1981 Dec 13 2254:25	Black Brant X	-	NASA 35.002UE	0.000	GSFC	SS	-	SWRI/Winningham	Plasma	CanJPhys64,1412	ESA-SP229-206	-
1982-S41	2444990.56	1982 Jan 21 0131	Terrier Malemute	-	NASA 29.18UE	0.000	GSFC	SS	-	UCB/Mozer	Plasma	WDCRF	-	-
1982-S73	2445034.87	1982 Mar 6 0847	Terrier Malemute	-	NASA 29.16CE	0.000	GSFC	SS	-	AERO/Christensen	Plasma	WWW-PFRR	-	-
1982-A07	2445044.72	1982 Mar 16 0510	Black Brant IX	-	AAF-IXC-1	0.000	NRCC	SF	U	NRCC/Whalen	Auroral/Aeron/Ionos	WDCRF	-	-
1982-S107	2445075.77	1982 Apr 16 0629	Black Brant X	-	NASA 35.003GE	0.000	GSFC	HS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1982-S109	2445079.77	1982 Apr 20 0630	Black Brant X	-	NASA 35.004GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WWW-PFRR	-	-
1982-S188	2445287.83	1982 Nov 14 0755:15	Black Brant IX	-	NASA 36.01UE	0.000	GSFC	SS	-	UMN/UNH/Cahill,Arnoldy	Plasma	JGR94,453	WWW-PFRR	-
1983-S48	2445354.47	1983 Jan 19 2312:38	Black Brant IX	-	SSC S36	0.000	SSC	SS	-	KGI/UIO/Eliasson	Auroral	ESA-SP183-479	Chesser	-
1983-S55	2445372.59	1983 Feb 7 0214	Black Brant IX	-	AAF-IXC-2	0.000	NRCC	SS	-	NRCC/Whalen,Forsyth	Plasma	FC	SFLT25-263	-
1983-S65	2445395.62	1983 Mar 2 0251:11	Terrier Malemute	-	NASA 29.20UE	0.000	GSFC	SS	-	CORN/UIUC/Kelley	Plasma	AeronRpt83-1	IJRSP19,215	-
1983-S76	2445408.61	1983 Mar 15 0233:19	Terrier Malemute	-	NASA 29.19UE	0.000	GSFC	SS	-	CORN/UIUC/Kelley	Plasma	AeronRpt83-1	IJRSP19,215	-
1983-S85	2445423.79	1983 Mar 30 0659:51	Black Brant IX	-	NASA 36.02UE	0.000	GSFC	SS	-	UMN/Winckler	Plasma	WISR	-	-
1983-S87	2445434.82	1983 Apr 10 0747	Black Brant X	-	NASA 35.005UG	0.000	GSFC	SS	-	UMD/Moore	Particle Astron	WIPR83-9	-	-
1983-S314	2445601.58	1983 Sep 24 0200	Terrier Tomahawk	-	-	0.000	SAND	SS	-	LANL/Evans	Tech Nudet	NSP-ACV83-12	-	-
1983-S201	2445650.38	1983 Nov 11 2108:39	Terrier Malemute	-	NASA 29.22GE/IE	0.000	GSFC	SS	-	GSFC/BERG/Maynard,Sor.	Auroral	WDCRF	AND	-
1984-S54	2445737.88	1984 Feb 7 0909:00	Black Brant X	-	NASA 35.006UE	0.000	GSFC	SS	-	UCB/Mozer	Plasma	WISR	JGR95,12173	-
1984-S55	2445737.88	1984 Feb 7 0910:40	Terrier Malemute	-	NASA 29.21UE	0.000	GSFC	SS	-	UCB/Mozer	Plasma	WISR	JGR95,12173	-
1984-S72	2445789.96	1984 Mar 30 1100	Black Brant X	-	NASA 35.007GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	JGR94,A1,393	-
1984-S75	2445791.80	1984 Apr 1 0719	Black Brant X	-	NASA 35.008GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	JGR94,A1,393	-
1985-S26	2446088.89	1985 Jan 23 0923	Terrier Malemute	-	NASA 29.23UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1985-S27	2446088.89	1985 Jan 23 0926:32	Black Brant X	-	NASA 35.009UE	0.000	GSFC	SS	-	UCB/Carlson	Plasma	WISR	-	-
1985-S38	2446106.59	1985 Feb 10 0211	Terrier Malemute	-	NASA 29.15UE	0.000	GSFC	SS	-	UMN/UNH/Cahill,Arnoldy	Plasma/Active	JGR94,453	ASR8,1	-
1985-S39	2446106.59	1985 Feb 10 0213	Black Brant X	-	NASA 35.012UE	0.000	GSFC	SS	-	UMN/UNH/Cahill,Arnoldy	Plasma	WISR	-	-
1985-S41	2446111.57	1985 Feb 15 0145:15	Black Brant IXB	-	AAF-IXB-3	0.000	NRCC	SS	-	NRCC/Yau	Auroral/Aeron/Ionos	FC	WDCRF	-
1985-S42	2446111.73	1985 Feb 15 0525:11	Black Brant XB	-	AAF-XB-01	0.000	NRCC	SS	-	NRCC/Yau	Ionos/Plasma/Fields	FC	JGR91,A6,7113	-
1985-S57	2446139.59	1985 Mar 15 0205:52	Black Brant IX	-	GL A21.426	0.000	AFGL2	SS	-	AFCRL/Weber	Plasma	WDCRF	AFCRL	-
1985-S100	2446261.13	1985 Jul 14 1505:00	Terrier Malemute	-	Sandia 497-013	0.000	SDIO/MITLL	SS	-	SAND/Millard	Target	AIAA86-2511	-	-
1985-S122	2446336.14	1985 Sep 27 1520:00	Terrier Malemute	-	Sandia 497-014	0.000	SDIO/MITLL	SS	-	SAND/Millard	Target	AIAA86-2511	-	-
1985-S128	2446349.14	1985 Oct 10 1525:00	Terrier Malemute	-	Sandia 497-015	0.000	SDIO/MITLL	SS	-	SAND/Millard	Target	AIAA86-2511	-	-
1985-S136	2446380.29	1985 Nov 10 1856:05	Black Brant IX	-	NASA 36.05IE	0.000	NASA/NDRE	SS	-	NDRE/SWRI/Winn.,Maehlum	Active plas/tether	AND	-	-
1985-S148	2446410.16	1985 Dec 10 1550:00	Terrier Malemute	-	Sandia 497-016	0.000	SDIO/MITLL	SS	-	SAND/Millard	Target	AIAA86-2511	-	-
1985-S142	2446413.80	1985 Dec 14 0716:42	Black Brant IXB	-	NASA 36.09UE	0.000	GSFC	SS	-	USU/ISAS/Raitt,Hirao	Plasma/Tether	ASR8,197	AdvAstSci62-497	-
1985-S144	2446416.30	1985 Dec 16 1910	Black Brant IX	-	NASA 36.11UL	0.000	GSFC	SS	-	PITT/Zipf	Aeron	WISR	-	-
1986-S17	2446449.26	1986 Jan 18 1813:00	Black Brant X	-	NASA 35.010CE	0.000	GSFC	SS	-	SWRI/Winningham	Auroral	WDCRF	AND	-
1986-S24	2446486.00	1986 Feb 24 1153:30	Black Brant IX	-	NASA 36.10DL	0.000	GSFC	SS	-	NRL/McCoy	UV Astron/Halley	AAp258,555	WIPR86-5	-
1986-S30	2446502.95	1986 Mar 13 1054:00	Black Brant IX	-	NASA 36.17DL	0.000	GSFC	SS	-	NRL/McCoy	UV Astron/Halley	AAp258,555	-	-
1986-S35	2446521.85	1986 Apr 1 0817	Black Brant X	-	NASA 35.015GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1986-S36	2446523.94	1986 Apr 3 1036	Terrier Malemute	-	NASA 29.24UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1986-S38	2446533.88	1986 Apr 13 0914:01	Black Brant X	-	NASA 35.016GE	0.000	GSFC	SS	-	GSFC/Heppner	Plasma	WISR	-	-
1986-S41	2446542.87	1986 Apr 22 0849	Black Brant X	-	NASA 35.013UG	0.000	GSFC	SS	-	UMD/Moore	UV Astron?	WISR	-	-
1986-S46	2446563.82	1986 May 13 0740	Black Brant X	-	NASA 35.014UE	0.000	GSFC	SS	-	UAH/Torbert	Plasma	WISR	-	-
1986-S117	2446780.32	1986 Dec 15 1935	Black Brant IX	-	NASA 36.19GU	0.000	GSFC	SS	-	GSFC/Mentall	Solar UV	WISR	WIPR86-54	-
1987-S46	2446824.30	1987 Jan 28 1915	Black Brant IX	-	NASA 36.16UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	WIPR87-5	-
1987-S47	2446826.90	1987 Jan 31 0932	Black Brant IX	-	NASA 36.04UE	0.000	GSFC	SS	-	UMN/P.Kellogg	Plasma	JGG49,1257	WISR	-
1987-S56	2446853.49	1987 Feb 26 2349:10	Black Brant IX	-	GL A21.628	0.000	AFCRL	SS	-	AFCRL/Weber	Plasma	PolarArcsRept	AFCRL	-
1987-S57	2446853.49	1987 Feb 26 2343:10	Terrier Malemute	-	NASA 29.25UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-
1987-S58	2446859.77	1987 Mar 5 0632:40	Terrier Malemute	-	NASA 29.26UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-
1987-A05	2446861.78	1987 Mar 7 0639:20	Black Brant X	-	NASA 35.018UE	0.000	GSFC	SF	U	UCB/Carlson	Plasma	WISR	-	-
1987-S62	2446873.92	1987 Mar 19 1000:00	Black Brant IXB	-	MASER 1	0.000	SSC	SS	-	SSC/	Micrograv	Sven	-	-
1987-S74	2446885.70	1987 Mar 31 0447:00	Black Brant IX	-	NASA 36.14UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	www.cass.usu.edu	WISR	-
1987-S125	2447007.66	1987 Jul 31 0353:49	Black Brant IX	-	NASA 36.13UE	0.000	GSFC	SS	-	CORN/Kintner	Plasma	WISR	-	-
1987-S128	2447023.23	1987 Aug 15 1725	Black Brant IX	-	NASA 36.021CS	0.000	GSFC	SS	-	ASE/Moses	Solar	WISR	-	-
1987-S174	2447114.09	1987 Nov 14 1410	Black Brant IX	-	NASA 36.030UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astron	WISR	NASA-PR	-
1987-S176	2447118.05	1987 Nov 18 1306	Black Brant IX	-	NASA 36.023UG	0.000	GSFC	SS	-	UCO/Cash	UV Astron	WISR	-	-
1987-S177	2447134.21	1987 Dec 4 1705	Black Brant IX	-	NASA 36.024UH	0.000	GSFC	SS	-	CAL/Novick	XR Astron	WISR	-	-
1987-S179	2447141.26	1987 Dec 11 1815	Black Brant IX	-	NASA 36.38CS	0.000	GSFC	SS	-	ASE/Moses	Solar SX	WISR	-	-
1987-S180	2447141.28	1987 Dec 11 1845	Black Brant IX	-	NASA 36.20DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WISR	-	-
1987-S181	2447143.57	1987 Dec 14 0145	Black Brant X	-	GL A22.703	0.000	SDIO	SS	-	USU/AFCRL/Raitt,Raike	Active Plasma	DNA-TR-91-132	AFCRL	-
1988-S45	2447179.86	1988 Jan 19 0840:04	Black Brant X	-	NASA 35.017UE	0.000	GSFC	SS	-	CORN/Kintner	Plasma	WISR	ESA-SP355-327	-
1988-S46	2447184.27	1988 Jan 23 1830	Black Brant IX	-	NASA 36.29GU	0.000	GSFC	SS	-	GSFC/Mentall	Aeron?	WISR	-	-
1988-S50	2447190.29	1988 Jan 29 1903:41	Black Brant IX	-	NASA 36.39UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma/Art. Comet	WISR	-	-
1988-S52	2447200.85	1988 Feb 9 0816:49	Black Brant IX	-	NASA 36.15UE	0.000	GSFC	SS	-	UMN/AFCRL/Winckler	Plasma/Tether	WISR	AFCRL	-
1988-S59	2447208.07	1988 Feb 16 1334	Black Brant IX	-	NASA 36.022GH	0.000	GSFC	SS	-	GSFC/Serlemitsos	XR Astronomy	WISR	-	-
1988-S62	2447220.01	1988 Feb 28 1210	Black Brant IX	-	NASA 36.032UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astronomy	WISR	ApJ347,1114	-
1988-S63	2447220.86	1988 Feb 29 0834:30	Black Brant IX	-	MASER 2	0.000	SSC	SS	-	SSC/	Microgravity	www.nlr.nl	Chesser	-
1988-S64	2447224.79	1988 Mar 4 0655	Black Brant X	-	NASA 35.023GE	0.000	GSFC	SS	-	UCB/Carlson	Plasma	WISR	-	-
1988-S66	2447234.07	1988 Mar 13 1334	Black Brant IX	-	NASA 36.027UG	0.000	GSFC	SS	-	UCO/Cash	UV Astron	WISR	ApJ347,L81	-
1988-S67	2447238.35	1988 Mar 17 2025	Black Brant IX	-	NASA 36.36US	0.000	GSFC	SS	-	UCO/Rottman	Solar EUV	WISR	SN891009-22	-
1988-S100	2447336.24	1988 Jun 23 1740	Black Brant IX	-	NASA 36.35US	0.000	GSFC	SS	-	SAO/Golub	Solar	WISR	-	-
1988-S116	2447415.22	1988 Sep 10 1710:12	Black Brant IX	-	NASA 36.46UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	-	-
1988-S117	2447415.81	1988 Sep 11 0730	Black Brant IX	-	NASA 36.31UG	0.000	GSFC	SS	-	PRIN/Jenkins	UV Astron	WISR	NASA-PR88-30	-
1988-S129	2447459.25	1988 Oct 24 1803:01	Black Brant IX	-	NASA 36.41UL	0.000	GSFC	SS	-	USCLA/Judge	UV Astronomy	ESA-SP291-24	-	-
1988-S136	2447486.27	1988 Nov 20 1830	Black Brant IX	-	NASA 36.44DS	0.000	GSFC	SS	-	NRL/Brueckner	Test/Solar	WISR	ESA-SP291-24	-
1988-S147	2447512.96	1988 Dec 17 1101	Black Brant X	-	NASA 35.024UE	0.000	GSFC	SS	-	UAF/Wescott	Plasma	WISR	-	-
1989-A01	2447535.84	1989 Jan 9 0810	Black Brant IX	-	NASA 36.45UG	0.000	GSFC	SF	U	JHU/Feldman	UV Astron	WISR	-	-
1989-S28	2447544.29	1989 Jan 17 1900:03	Black Brant IX	-	NASA 36.47GU	0.000	GSFC	SS	-	GSFC/Mentall	Aeron?	WISR	-	-
1989-S33	2447557.39	1989 Jan 30 2114:40	Black Brant XB	-	AAF-XB-02	0.000	CSA	SS	-	CORN/CRC/Kintner,Jam.	Plasma/tether	ICTS4-193	-	-
1989-S49	2447615.15	1989 Mar 29 1541	Black Brant 9CM1	-	Starfire 1/F1	0.000	SSI	SS	-	UAH/	Micrograv	SFLT31-150	-	-
1989-S50	2447619.60	1989 Apr 3 0227	Terrier Malemute	-	NASA 29.27UE	0.000	GSFC	SS	-	BU/Mendillo	Plasma	WISR	JGR101,A9,19683	-
1989-S51	2447625.69	1989 Apr 9 0437:39	Black Brant XB	-	NASA 35.022GE	0.000	GSFC	SS	-	GSFC/Hoffman	Plasma	WISR	-	-
1989-S52	2447626.85	1989 Apr 10 0821:00	Black Brant IX	-	MASER 3	0.000	SSC	SS	-	SSC/	Micrograv	www.nlr.nl	ESA-SP1206	-
1989-S53	2447627.65	1989 Apr 11 0336	Black Brant XB	-	NASA 35.021GE	0.000	GSFC	SS	-	GSFC/Hoffman	Plasma	WISR	-	-
1989-S56	2447650.57	1989 May 4 0142:10	Black Brant X	-	NASA 35.019UE	0.000	GSFC	SS	-	UAH/Torbert	Plasma/Ba	WISR	GRL17,1601	-
1989-S57	2447652.24	1989 May 5 1745	Black Brant IX	-	NASA 36.25GS	0.000	GSFC	SS	-	GSFC/Neupert	Solar	WISR	ApJS91,461	-
1989-S62	2447698.29	1989 Jun 20 1900	Black Brant IX	-	NASA 36.54US	0.000	GSFC	SS	-	UCO/Rottman	Solar UV/EUV	WISR	SN891009-22	-
1989-S63	2447704.75	1989 Jun 27 0600:01	Black Brant IX	-	NASA 36.43GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron	ApJ391,L81	WISR	-
1989-S79	2447738.50	1989 Jul 31	Black Brant X	-	SDIO Black Star 3	0.000	SDIO	SS	-	SDIO/	Target	Powell	-	-
1989-S80	2447761.95	1989 Aug 23 1042	Black Brant X	-	SDIO Black Star 4	0.000	SDIO	SS	-	SDIO/	Target	StarNews890824	-	-
1989-S83	2447762.25	1989 Aug 23 1805	Black Brant IX	-	NASA 36.59UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron/Solar EUV	JGR102,11557	WISR	-
1989-S88	2447773.50	1989 Sep 4	Terrier Malemute	-	SDIO Starmate	0.000	SDIO	SS	-	SDIO/	Target	AWST891002-22	-	-
1989-S90	2447780.50	1989 Sep 11	Terrier Malemute	-	SDIO Starmate	0.000	SDIO	SS	-	SDIO/	Target	AWST891002-22	-	-
1989-S91	2447781.19	1989 Sep 11 1636	Black Brant IX	-	NASA 36.52US	0.000	GSFC	SS	-	SAO/Golub	Solar EUV/SX	WISR	-	-
1989-S102	2447822.58	1989 Oct 23 0158	Black Brant IX	-	NASA 36.37DE	0.000	GSFC	SS	-	NRL/LASL/Bernhardt,Argo	Plasma	WISR	RadioSci72.289	-
1989-A11	2447846.16	1989 Nov 15 1545	Black Brant 9CM1	-	Starfire 1/F2	0.000	SSI	SF	S1	UAH/	Micrograv	Ulrich/Wire	AWST891120-43	-
1990-S30	2447915.32	1990 Jan 23 1940	Black Brant IX	-	NASA 36.33UL	0.000	GSFC	SS	-	PITT/Zipf	Aeronomy	WISR	-	-
1990-S45	2447945.81	1990 Feb 23 0731:25	Black Brant 10CM1	-	NASA 35.20UE	0.000	GSFC	SS	-	UNH/Arnoldy	Plasma	WISR	-	-
1990-S60	2447960.25	1990 Mar 9 1800	Black Brant IX	-	NASA 36.66GU	0.000	GSFC	SS	-	GSFC/Mentall	Aeron?	WISR	-	-
1990-S64	2447967.69	1990 Mar 17 0430	Black Brant IX	-	NASA 36.34UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astron	WISR	-	-
1990-S73	2447979.89	1990 Mar 29 0926	Terrier Malemute	-	SDIO Laser Target	0.000	SDIO	SS	-	MITLL/	Target	SN900416-37	LincolnLabJ12,383;AW	-
1990-S76	2447979.84	1990 Mar 29 0807:00	Black Brant IX	-	MASER 4	0.000	SSC	SS	-	SSC/	Micrograv	Sven	-	-
1990-S77	2447981.21	1990 Mar 30 1700	Black Brant IX	-	NASA 36.53DE	0.000	GSFC	SS	-	NRL/McCoy	Plasma	WISR	-	-
1990-S78	2447987.07	1990 Apr 5 1347	Black Brant X	-	NASA 35.28CE	0.000	GSFC	SS	-	TRW/Taylor	Plasma	WISR	-	-
1990-S79	2447990.87	1990 Apr 9 0850	Black Brant IX	-	NASA 36.67UG	0.000	GSFC	SS	-	UCO/Cash	UV Astron	WISR	-	-
1990-S80	2447998.75	1990 Apr 17 0600	Black Brant IX	-	NASA 36.063UG	0.000	GSFC	SS	-	UCB/Bowyer	UV Astron	WISR	-	-
1990-S81	2448002.93	1990 Apr 21 1015	Black Brant IX	-	NASA 36.73UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1990-S82	2448006.73	1990 Apr 25 0532	Terrier Malemute	-	SDIO BSUV	0.000	SDIO	SS	-	SDIO/PITT/Zipf	Reentry Test	SN900430-17	WWW-BMDO	-
1990-S84	2448009.91	1990 Apr 28 0945	Black Brant IX	-	NASA 36.74UG	0.000	GSFC	SS	-	UCO/Cash	UV Astron	SN900430-11	WISR	-
1990-S94	2448028.07	1990 May 16 1340	Black Brant 9CM1	-	Starfire 1/F3	0.000	SSI	SS	-	UAH/	Micrograv	AWST900521-34	-	-
1990-S100	2448044.10	1990 Jun 1 1425	Black Brant IX	-	NASA 36.69UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1990-S106	2448102.91	1990 Jul 30 0948:44	Terrier Malemute	-	NASA 29.28UE	0.000	GSFC	SS	-	GSFC/Pfaff	Plasma	WISR	-	-
1990-S113	2448105.92	1990 Aug 2 1007:09	Terrier Malemute	-	NASA 29.29UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1990-S122	2448125.84	1990 Aug 22 0816	Black Brant IX	-	NASA 36.56DE	0.000	GSFC	SS	-	NRL/Bernhardt	Plasma	WISR	-	-
1990-S124	2448128.79	1990 Aug 25 0704	Black Brant 10CM1	-	SDI BP-1	0.000	SDIO	SS	-	SDIO/	Tech	SN900903-9	AWST920921-22	-
1990-S131	2448139.29	1990 Sep 4 1904	Black Brant IX	-	NASA 36.72UL	0.000	GSFC	SS	-	USCLA/Judge	Aeron/Solar EUV	JGR102,11557	WISR	-
1990-S142	2448184.50	1990 Oct 20	Terrier Malemute	-	SDIO	0.000	SDIO	SS	-	MITLL/	Target	LincolnLabJ12,383	-	-
1990-S156	2448217.26	1990 Nov 21 1815	Black Brant IX	-	NASA 36.058DS	0.000	GSFC	SS	-	NRL/Moses	Solar	CR-163494	-	-
1990-S157	2448217.28	1990 Nov 21 1840	Black Brant IX	-	NASA 36.060DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	CR-163494	-	-
1991-S48	2448282.77	1991 Jan 26 0625	Black Brant IX	-	NASA 36.057UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1991-S77	2448310.32	1991 Feb 22 1946	Black Brant IX	-	NASA 36.070US	0.000	GSFC	SS	-	SAO/Golub	Solar	WISR	-	-
1991-A01	2448321.30	1991 Mar 5 1919	Terrier	-	NASA 12.44WT	0.000	GSFC	SS	-	WFF/Kotsifakis	Test	WISR	-	-
1991-S87	2448333.93	1991 Mar 18 1015	Black Brant IX	-	NASA 36.077UH	0.000	GSFC	SS	-	UCO/Cash	XR Astron	WISR	CR-198856	-
1991-S90	2448338.79	1991 Mar 23 0700	Black Brant IX	-	NASA 36.068GG	0.000	GSFC	SS	-	GSFC/Smith	UV Astron	ApJ430,568	-	-
1991-S91	2448345.60	1991 Mar 30 0227	Black Brant IX	-	NASA 36.078UL	0.000	GSFC	SS	-	UCO/Barth	Aeron	WISR	-	-
1991-S97	2448363.82	1991 Apr 17 0740	Black Brant 10CM1	-	SDI BP-2	0.000	SDIO	SS	-	SDIO/LLNL/	Tech	AWST910506-69	AWST920921-22	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1991-S103	2448380.67	1991 May 4 0410	Black Brant IX	-	NASA 36.062UL	0.000	GSFC	SS	-	UMI/Clarke	UV Astron	WISR	SPIE1745,251	-
1991-S104	2448384.25	1991 May 7 1805	Black Brant IX	-	NASA 36.086GS	0.000	GSFC	SS	-	GSFC/Davila	Solar	WISR	-	-
1991-S109	2448390.29	1991 May 13 1903	Black Brant IX	-	NASA 36.049US	0.000	GSFC	SS	-	STAN/Walker	Solar X	WWW-MSFC	-	-
1991-S123	2448449.23	1991 Jul 11 1725	Black Brant IX	-	NASA 36.087US	0.000	GSFC	SS	-	SAO/Golub	Solar EUV/Eclipse	WISR	-	-
1991-S171	2448577.15	1991 Nov 16 1530	Black Brant 9CM1	-	Starfire 1/F4	0.000	SSI	SS	-	UAH/	Micrograv	SN911125-7	-	-
1992-S11	2448632.65	1992 Jan 11 0340	Black Brant IX	-	NASA 36.079UG	0.000	GSFC	SS	-	UCO/Green	EUV Astron	WISR	-	-
1992-S13	2448645.30	1992 Jan 23 1919	Black Brant IX	-	NASA 36.075UE	0.000	GSFC	SS	-	PITT/Zipf	Plasma	WISR	-	-
1992-S15	2448653.00	1992 Jan 31 1155	Black Brant IX	-	NASA 36.096UH	0.000	GSFC	SS	-	UCO/Cash	XR Astron	WISR	-	-
1992-S22	2448674.64	1992 Feb 22 0315	Black Brant IX	-	NASA 36.089UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	WISR	-	-
1992-S32	2448701.17	1992 Mar 19 1605	Black Brant IX	-	CSAR 1	0.000	CSA	SS	-	CSA/	Micrograv	ESA-SP355-123	-	-
1992-S103	2448701.17	1992 Mar 19 1610	Black Brant IX	-	NASA 36.088DE	0.000	GSFC	SS	-	NRL/McCoy	Airglow	JGR105,23025	WISR	-
1992-S37	2448721.94	1992 Apr 9 1040	Black Brant 9BM1	-	MASER 5	0.000	SSC	SS	-	SSC/ESTEC/	Micrograv	Sven	ESA-SP1206	-
1992-S41	2448755.10	1992 May 12 1426	Black Brant IX	-	NASA 36.048CS	0.000	GSFC	SS	-	LPARL/Bruner	Solar	WISR	CR-189340	-
1992-S43	2448766.50	1992 May 24	Terrier Malemute	-	-	0.000	SDIO	SS	-	SDIO/	Target	environment-hawaii	-	-
1992-S46	2448772.84	1992 May 30 0811	Black Brant IX	-	NASA 36.65DE	0.000	GSFC	SS	-	NRL/Bernhardt	Plasma	WISR	-	-
1992-S49	2448779.86	1992 Jun 6 0837:31	Black Brant IX	-	NASA 36.64CE	0.000	GSFC	SS	-	SAIC/Szuszczewicsz	Plasma	TM-108494	JGR101,15749	-
1992-S50	2448782.73	1992 Jun 9 0532	Black Brant IX	-	NASA 36.71UE	0.000	GSFC	SS	-	CORN/Kelley	Plasma	WISR	-	-
1992-S61	2448805.88	1992 Jul 2 0901:15	Black Brant IX	-	NASA 36.82DE	0.000	GSFC	SS	-	AFGL/Weber	Plasma	TM-108494	-	-
1992-S63	2448807.87	1992 Jul 4 0858	Black Brant IX	-	NASA 36.83DE	0.000	GSFC	SS	-	AFGL/Weber	Plasma	TM-108494	-	-
1992-S64	2448815.88	1992 Jul 12 0902:00	Black Brant IX	-	NASA 36.81CE	0.000	GSFC	SS	-	AERO/Djuth	Plasma	TM-108494	-	-
1992-S76	2448859.19	1992 Aug 24 1630	Black Brant IX	-	NASA 36.090DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WISR	-	-
1992-S84	2448876.10	1992 Sep 10 1430	Black Brant 9CM1	-	Starfire 1/F5	0.000	SSI	SF	S2	UAH/	Micrograv	SN920914-20	-	-
1992-A14	2448889.50	1992 Sep 24	Terrier LEAP	-	Rockwell LEAP	0.000	USNAEG	SS	-	USN/	Interceptor	JCM	-	-
1992-S90	2448923.27	1992 Oct 27 1830	Black Brant IX	-	NASA 36.098UE	0.000	GSFC	SS	-	UCO/Woods	Solar UV	WISR	-	-
1992-S100	2448965.50	1992 Dec 9	Black Brant 9CM1	-	-	0.000	MATRA	SS	-	DGA/MATRA/Gricourt	Test/Imaging	Chesser	ESA-SP355-145	-
1992-S102	2448971.62	1992 Dec 15 0300	Black Brant IX	-	NASA 36.085UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1993-S13	2449027.33	1993 Feb 8 2000	Black Brant IX	-	NASA 36.100NS	0.000	GSFC	SS	-	MSFC/Davis	Solar	WISR	-	-
1993-S15	2449038.25	1993 Feb 19 1800?	Black Brant 9CM1	-	Starfire 1/F6	0.000	SSI	SS	-	UAH/	Micrograv	NASA-PR	SN930222-2	-
1993-S23	2449062.59	1993 Mar 16 0212:41	Black Brant 9CM1	-	-	0.000	SDIO	SS	-	USU/Raitt	Active plasma	DNA-TR-95-68	www.usu.edu	-
1993-S27	2449090.22	1993 Apr 12 1718	Black Brant IX	-	NASA 36.099US	0.000	GSFC	SS	-	SAO/Golub	Solar	WISR	-	-
1993-S28	2449094.89	1993 Apr 17 0915	Black Brant IX	-	NASA 36.095UH	0.000	GSFC	SS	-	UCO/Cash	XR Astron	WISR	-	-
1993-S42	2449154.69	1993 Jun 16 0439	Black Brant IX	-	NASA 36.101UL	0.000	GSFC	SS	-	UMI/Clarke	Aeron	WISR	-	-
1993-S48	2449190.85	1993 Jul 22 0825	Black Brant X	-	NASA 35.29UE	0.000	GSFC	SS	-	CORN/Kintner	Plasma	WISR	-	-
1993-S50	2449195.50	1993 Jul 27	Black Brant 9CM1	-	-	0.000	MATRA	SS	-	DGA/MATRA/	Imaging	Chesser	-	-
1993-S54	2449217.25	1993 Aug 17 1800	Black Brant IX	-	NASA 36.105GS	0.000	GSFC	SS	-	GSFC/Davila	Solar	WISR	-	-
1993-A13	2449257.50	1993 Sep 27	Terrier LEAP	-	Rockwell LEAP	0.000	USNAEG	SS	-	USN/	Interceptor	JCM	-	-
1993-S62	2449265.24	1993 Oct 4 1745	Black Brant IX	-	NASA 36.107UE	0.000	GSFC	SS	-	UCO/HAO/Woods	Solar UV	WISR	-	-
1994-S10	2449393.49	1994 Feb 9 2343	Black Brant IX	-	NASA 36.110IE	0.000	NASA/NTNF	SS	-	BERG/Soraas	Auroral	ESA-SP370	AnnGeoe16,148	-
1994-S11	2449393.73	1994 Feb 10 0535	Black Brant 9CM1	-	NASA 36.097IE	0.000	NASA/CSA	SS	-	NRCC/Harris	Plasma/Aeron	ESA-SP370	Chesser	-
1994-S19	2449412.50	1994 Mar 1	Black Brant 9CM1	-	-	0.000	MATRA	SS	-	DGA/MATRA/	Imaging	Chesser	-	-
1994-S23	2449422.79	1994 Mar 11 0650:42	Black Brant IX	-	NASA 36.114DE	0.000	GSFC	SS	-	NRL/McCoy	Auroral	WISR	-	-
1994-S28	2449448.27	1994 Apr 5 1822	Terrier Improved Orion	-	NASA 12.046WT	0.000	GSFC	SS	-	WFF/Ballance	Test	WISR	-	-
1994-S30	2449460.69	1994 Apr 18 0430	Black Brant IX	-	NASA 36.109UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WISR	-	-
1994-S31	2449468.36	1994 Apr 25 2045	Black Brant IX	-	NASA 36.123CS	0.000	GSFC	SS	-	LPARL/Bruner	Solar	WISR	-	-
1994-S49	2449553.75	1994 Jul 20 0553:02	Black Brant IX	-	NASA 36.121CL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astron	WISR	Chesser	-
1994-S55	2449580.64	1994 Aug 16 0325:02	Black Brant IX	-	NASA 36.117CL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astron	WISR	-	-
1994-S74	2449630.29	1994 Oct 4 1858:30	Black Brant IX	-	NASA 36.084UE	0.000	GSFC	SS	-	PITT/Zipf	Ionos	WISR	Chesser	-
1994-S77	2449640.45	1994 Oct 14 2255	Black Brant X	-	NASA 35.030IE	0.000	GSFC	SS	-	DART/Labelle	Ionos	GRL24,1691	Chesser	-
1994-S80	2449660.28	1994 Nov 3 1845	Black Brant IX	-	NASA 36.124AE	0.000	GSFC	SS	-	UCO/HAO/Woods	Ionos/Solar UV	WISR	Chesser	-
1994-S81	2449660.30	1994 Nov 3 1915	Black Brant IX	-	NASA 36.091US	0.000	GSFC	SS	-	STAN/Walker	Solar X	WISR	Chesser	-
1994-S83	2449679.15	1994 Nov 22 1540	Black Brant IX	-	NASA 36.103NP	0.000	GSFC	SS	-	LERC/Ross	Test?	WISR	Chesser	-
1994-S88	2449689.82	1994 Dec 3 0745	Black Brant IX	-	NASA 36.050UG	0.000	GSFC	SS	-	UWI/Nordsieck	UV Astronomy	WISR	Chesser	-
1994-S91	2449694.50	1994 Dec 8	Black Brant 9CM1	-	Starfire 1/F7	0.000	CSA	SS	-	QUK/Smith	Micrograv	ESA-SP370	-	-
1994-S92	2449703.62	1994 Dec 17 0255	Black Brant IX	-	NASA 36.102UG	0.000	GSFC	SS	-	UCO/Green	UV Astronomy	WISR	Chesser	-
1995-A01	2449780.93	1995 Mar 4 1020	Terrier LEAP	-	Hughes LEAP	0.000	USNAEG	SS	-	USN/	Interceptor	www.defenselink.mil	www.ucsusa.org	-
1995-S24	2449798.30	1995 Mar 21 1911:31	Black Brant IX	-	NASA 36.120UE	0.000	GSFC	SS	-	PITT/Zipf	Ionos	WISR	Chesser	-
1995-S25	2449801.87	1995 Mar 25 0855:01	Black Brant 10CM1	-	NASA 35.031UE	0.000	GSFC	SS	-	UAF/Wescott	Ionos/release	WISR	WWW-PFRR	-
1995-A02	2449804.50	1995 Mar 28	Terrier LEAP	-	Hughes LEAP	0.000	USNAEG	SS	-	USN/	Interceptor	www.ucsusa.org	-	-
1995-S28	2449808.90	1995 Apr 1 0933	Black Brant IX	-	NASA 36.104UL	0.000	GSFC	SS	-	UMI/Clarke	Aeronomy?	WISR	Chesser	-
1995-S32	2449822.92	1995 Apr 15 1007:42	Black Brant IX	-	NASA 36.137CL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astron	WISR	Chesser	-
1995-S33	2449826.25	1995 Apr 18 1800	Black Brant IX	-	NASA 36.108DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WISR	Chesser	-
1995-S38	2449853.25	1995 May 15 1800	Black Brant IX	-	NASA 36.123GS	0.000	GSFC	SS	-	GSFC/Davila	Solar	WISR	Chesser	-
1995-S39	2449859.80	1995 May 22 0705:03	Black Brant IX	-	NASA 36.092UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astronomy	WISR	Chesser	-
1995-S48	2449899.25	1995 Jun 30 1800:02	Terrier Improved Orion	?	NASA 12.47WT	0.000	GSFC	SS	-	WFF/Maxfield	Test	WISR	-	-
1995-S59	2449958.23	1995 Aug 28 1730:02	Black Brant IX	-	NASA 36.138NP	0.000	GSFC	SS	-	LERC/Ross	Microgravity	WISR	Chesser	-
1995-S61	2449962.55	1995 Sep 2 0113	Black Brant IX	-	NASA 36.111UE	0.000	GSFC	SS	-	CORN/Kelley	Ionos	WISR	www.ece.cornell.edu	-
1995-S63	2449973.25	1995 Sep 12 1805	Black Brant 9CM1	-	NASA 36.131US	0.000	GSFC	SS	-	USCLA/Judge	Solar	WISR	Chesser	-
1995-S69	2450016.05	1995 Oct 25 1313	Black Brant IX	-	NASA 36.106UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astronomy	Mendenhall-PhD	-	-
1995-S70	2450019.25	1995 Oct 28 1800	Black Brant IX	-	NASA 36.132UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astronomy	WWW-WFF	CR-202359	-
1995-S73	2450027.22	1995 Nov 5 1713	Black Brant IX	-	NASA 36.116UG	0.000	GSFC	SS	-	UCO/Green	UV Astronomy	WWW-WFF	Henderson	-
1995-S76	2450036.21	1995 Nov 14 1704	Black Brant IX	-	NASA 36.127UG	0.000	GSFC	SS	-	UCO/Green	UV Astronomy	WWW-WFF	O'Callaghan	-
1995-S77	2450041.15	1995 Nov 19 1530	Black Brant IX	-	NASA 36.128UG	0.000	GSFC	SS	-	UWI/Nordsieck	UV Astronomy	WWW-WFF	O'Callaghan	-
1995-S78	2450042.21	1995 Nov 20 1700	Black Brant IX	-	NASA 36.126UG	0.000	GSFC	SS	-	UCO/Green	UV Astronomy	WWW-WFF	-	-
1996-S08	2450137.30	1996 Feb 23 1917:45	Black Brant IX	-	NASA 36.143UE	0.000	GSFC	SS	-	PITT/Zipf	Ionos	WWW-WFF	Chesser	-
1996-S09	2450137.32	1996 Feb 23 1944	Black Brant IX	-	NASA 36.145NP	0.000	GSFC	SS	-	LERC/Ross	Microgravity	WWW-WFF	-	-
1996-S11	2450148.65	1996 Mar 6 0335	Black Brant IX	-	NASA 36.122UG	0.000	GSFC	SS	-	UCO/Green	EUV Astron	WWW-WFF	Powell	-
1996-S15	2450177.17	1996 Apr 3 1559	Black Brant 9CM1	-	Starfire 1/F8	0.000	SSI	SS	-	UAH/	Aeron?	JCM	ZBLAN	-
1996-S29	2450251.74	1996 Jun 17 0550:01	Black Brant IX	-	NASA 36.134UR	0.000	GSFC	SS	-	CIT/Lange	Radio Astronomy	WWW-WFF	-	-
1996-S30	2450255.11	1996 Jun 20 1440:01	Black Brant IX	-	NASA 36.118NP	0.000	GSFC	SS	-	LERC/Olson	Microgravity	WWW-WFF	-	-
1996-S33	2450261.29	1996 Jun 26 1900:00	Black Brant IX	-	NASA 36.147US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	WWW-WFF	JGR104,28321	-
1996-S38	2450278.80	1996 Jul 14 0715:01	Black Brant 9CM1	-	NASA 36.113UG	0.000	GSFC	SS	-	CAL/Martin	UV Astronomy	WWW-WFF	Chesser	-
1996-S47	2450290.90	1996 Jul 26 0940:00	Black Brant 9CM1	-	NASA 36.148CL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astronomy	WWW-WFF	Chesser	-
1996-S50	2450316.17	1996 Aug 20 1600:00	Black Brant 9CM1	-	NASA 36.130NS	0.000	GSFC	SS	-	MSFC/Davis	Solar	WWW-WFF	Chesser	-
1996-S63	2450373.17	1996 Oct 16 1602:00	Black Brant IX	-	NASA 36.154NP	0.000	GSFC	SS	-	LERC/Olson	Microgravity	WWW-WFF	-	-
1996-S64	2450377.62	1996 Oct 21 0300:00	Black Brant IX	-	NASA 36.115UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WWW-WFF	CR-202359	-
1996-S67	2450385.65	1996 Oct 29 0330:00	Black Brant IX	-	NASA 36.149UL	0.000	GSFC	SS	-	UMI/Clarke	Aeron	WWW-WFF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1996-S70	2450401.27	1996 Nov 13 1830:00	Black Brant IX	-	NASA 36.142GS	0.000	GSFC	SS	-	GSFC/Davila	Solar EUV	WWW-WFF	-	-
1996-S71	2450405.06	1996 Nov 17 1330:00	Terrier Improved Orion	-	NASA 41.005GP	0.000	GSFC	SS	-	GSFC/Deily	Test?	WWW-WFF	-	-
1997-S21	2450506.33	1997 Feb 26 2000:00	Black Brant IX	-	NASA 36.161NP	0.000	GSFC	SS	-	LERC/Olson	Microgravity	WWW-WFF	-	-
1997-S25	2450520.93	1997 Mar 13 1020:31	Black Brant IX	-	NASA 36.139UE	0.000	GSFC	SS	-	UWA/Parks	Ionos	WWW-PFRR	-	-
1997-S29	2450532.64	1997 Mar 25 0315	Black Brant IX	-	NASA 36.158UL	0.000	GSFC	SS	-	UCO/Green	UV Astronomy	SN970331-9	SFLT39-302	-
1997-S30	2450537.64	1997 Mar 30 0325	Black Brant IX	-	NASA 36.155CL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astronomy	SFLT39-302	-	-
1997-S31	2450544.66	1997 Apr 6 0345	Black Brant 9CM1	-	NASA 36.156UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astronomy	ApJ521,920	SFLT39-302	-
1997-S32	2450546.66	1997 Apr 8 0355	Black Brant 9CM1	-	NASA 36.157UL	0.000	GSFC	SS	-	UWI/Harris	UV Astronomy	www.wff.nasa.gov	SFLT39-302	-
1997-S36	2450570.81	1997 May 2 0730	Black Brant IX	-	NASA 36.093UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astronomy	WWW-WFF	-	-
1997-S37	2450576.80	1997 May 8 0710	Black Brant IX	-	NASA 36.133UG	0.000	GSFC	SS	-	BU/Chakrabarti,Cook	UV Astronomy	WWW-WFF	-	-
1997-S39	2450584.30	1997 May 15 1916	Black Brant IX	-	NASA 36.135AE	0.000	GSFC	SS	-	UCO/Woods	Solar UV	WWW-WFF	-	-
1997-S41	2450592.41	1997 May 23 2144	Terrier Orion	-	NASA 41.13DT	0.000	NASA/SMDC	SS	-	SSDC/Bowman	Target	WWW-WFF	-	-
1997-S42	2450597.71	1997 May 29 0456	Black Brant IX	-	NASA 36.163UR	0.000	GSFC	SS	-	CIT/AFGL/Lange	IR Astron	WWW-WFF	-	-
1997-A31	2450669.06	1997 Aug 8 1324:30	Terrier Improved Orion	-	NASA 41.11UE	0.000	GSFC	SF	U	USU/Ulwick	Ionos/Aeron	WWW-WFF	Launchspace9710-70	-
1997-S53	2450672.26	1997 Aug 11 1818:00	Black Brant IX	-	NASA 36.164US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	WWW-WFF	JGR104,28321	-
1997-S54	2450693.79	1997 Sep 2 0700	Terrier Improved Orion	-	NASA 41.14DT	0.000	GSFC	SS	-	SSDC/Bowman	Target	WWW-WFF	-	-
1997-S55	2450696.67	1997 Sep 5 0400	Terrier Improved Orion	-	NASA 41.15DT	0.000	GSFC	SS	-	SSDC/Bowman	Target	WWW-WFF	-	-
1997-S57	2450702.11	1997 Sep 10 1440	Black Brant IX	-	NASA 36.165NP	0.000	GSFC	SS	-	LERC/Ross	Microgravity	WWW-WFF	-	-
1997-S58	2450702.13	1997 Sep 10 1510	Black Brant IX	-	NASA 36.169NM	0.000	GSFC	SS	-	LERC/Olson	Microgravity	WWW-WFF	-	-
1997-S56	2450701.58	1997 Sep 10 0200	Terrier Improved Orion	-	NASA 41.16DT	0.000	GSFC	SS	-	SSDC/Bowman	Target	WWW-WFF	-	-
1997-S59	2450703.34	1997 Sep 11 2015:30	Terrier Improved Orion	-	NASA 41.17DT	0.000	GSFC	SS	-	SSDC/Bowman	Target	WWW-WFF	-	-
1997-S61	2450711.04	1997 Sep 19 1300:00	Black Brant IX	-	NASA 36.144UE	0.000	GSFC	SS	-	PITT/Zipf	Ionos	WWW-WFF	-	-
1997-S64	2450722.34	1997 Sep 30 2010:00	Black Brant IX	-	NASA 36.140DS	0.000	GSFC	SS	-	NRL/Brueckner	Solar	WWW-WFF	-	-
1997-S70	2450738.29	1997 Oct 16 1900:00	Black Brant IX	-	NASA 36.129DS	0.000	GSFC	SS	-	NRL/Moses	Solar	WWW-WFF	SPIE3442.15	-
1997-S72	2450758.33	1997 Nov 5 2002:00	Terrier Improved Orion	-	NASA 41.04IE	0.000	GSFC	SS	-	PSU/Kane	Ionos	WWW-WFF	AND-WWW	-
1997-S74	2450766.71	1997 Nov 14 0500:00	Black Brant IX	-	NASA 36.080UG	0.000	GSFC	SS	-	BU/Chakrabarti	UV Astronomy	WWW-WFF	ApJ559,491	-
1997-S75	2450771.32	1997 Nov 18 1935:00	Black Brant IX	-	NASA 36.167GS	0.000	GSFC	SS	-	GSFC/Davila	Solar EUV	WWW-WFF	-	-
1997-S76	2450784.86	1997 Dec 2 0842:00	Black Brant IX	-	NASA 36.153IE	0.000	GSFC	SS	-	MIRC/Maynard	Plasma	WWW-WFF	JGR105,A3,5245	-
1997-S77	2450785.88	1997 Dec 3 0906:00	Black Brant IX	-	NASA 36.152IE	0.000	GSFC	SS	-	GSFC/Pfaff	Plasma	WWW-WFF	-	-
1998-S22	2450869.83	1998 Feb 25 0750:00	Terrier Improved Orion	-	NASA 41.08UE	0.000	GSFC	SS	-	USU/Ulwick	Ionos	WWW-WFF	-	-
1998-S30	2450884.49	1998 Mar 11 2339:00	Black Brant IX	-	NASA 36.159UE	0.000	GSFC	SS	-	CORN/Kelley	Ionos	WWW-WFF	-	-
1998-S37	2450921.67	1998 Apr 18 0400	Black Brant IX	-	NASA 36.177UG	0.000	GSFC	SS	-	BU/Chakrabarti	UV Astron	WWW-WFF	ApJ559,491	-
1998-S38	2450921.81	1998 Apr 18 0730	Black Brant IX	-	NASA 36.160UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	WWW-WFF	-	-
1998-S40	2450932.01	1998 Apr 28 1210:00	Black Brant IXB	-	-	0.000	CSA	SS	-	CALG/	Ionos	WWW-Calgary	-	-
1998-S44	2450955.77	1998 May 22 0622:00	Black Brant IX	-	NASA 36.175UR	0.000	GSFC	SS	-	CIT/AFGL/Lange	IR Astron	ISR980608-14	WWW-WFF	-
1998-S71	2450994.50	1998 Jul	SM-2	-	Aegis TMT-1	0.000	USNAEG	MS	-	-	Target	Wire	-	-
1998-S50	2451040.73	1998 Aug 15 0530	Black Brant IX	-	NASA 36.176UH	0.000	GSFC	SS	-	PSU/Garmire	XR Astronomy	WWW-PSU	-	-
1998-S54	2451075.12	1998 Sep 18 1500	Black Brant IX	-	NASA 36.150NP	0.000	ARC	SS	-	ARC/Murbach	Test	Powell	Astrogram112798	-
1998-S60	2451120.26	1998 Nov 2 1820	Black Brant IX	-	NASA 36.171CS	0.000	GSFC	SS	-	SWRIB/Hassler	Solar UV	WWW-LASP	GRL27,3825	-
1998-S72	2451135.50	1998 Nov 18	SM-2	-	Aegis TMT-2	0.000	USNAEG	MS	-	-	Target	Wire	-	-
1998-S62	2451136.15	1998 Nov 18 1540	Black Brant IX	-	NASA 36.178NM	0.000	GSFC	SS	-	LERC/Ross	Micrograv	Powell	-	-
1999-S09	2451220.78	1999 Feb 11 0645:31	Black Brant X	-	NASA 35.032UE	0.000	GSFC	SS	-	UNH/Lynch	Ionos	www.pfrr.alaska.edu	www.dartmouth.edu	-
1999-S10	2451229.70	1999 Feb 20 0445:00	Black Brant IX	-	NASA 36.180UG	0.000	GSFC	SS	-	BU/Chakrabarti	UV Astron	WWW-WFF	-	-
1999-S24	2451280.77	1999 Apr 12 0635:00	Black Brant 9CM1	-	NASA 36.172UG	0.000	GSFC	SS	-	UWI/Nordsieck	UV Astron?	WWW-WFF	-	-
1999-S31	2451306.33	1999 May 7 2000:06	Black Brant IX	-	NASA 36.141DS	0.000	GSFC	SS	-	NRL/Korendyke	Solar UV	WWW-WFF	-	-
1999-S37	2451343.82	1999 Jun 14 0740	Black Brant 9CM1	-	NASA 36.136UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	BAAS31,1537	SPIE4139,70	-
1999-S38	2451354.21	1999 Jun 24 1700	Black Brant IX	-	NASA 36.182GS	0.000	GSFC	SS	-	GSFC/Davila	Solar UV	WWW-WFF	-	-
1999-M01	2451360.50	1999 Jul 1	SM-2	-	Aegis TMT-3	0.000	USNAEG	MS	-	-	Test	defensebriefing.com	Wire	-
1999-S53	2451409.25	1999 Aug 18 1805	Black Brant 9CM1	-	NASA 36.181US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	WWW-WFF	-	-
1999-S56	2451414.80	1999 Aug 24 0707:02	Black Brant IX	-	NASA 36.119UG	0.000	GSFC	SS	-	UWI/Roesler	UV Astron?	WWW-WFF	-	-
1999-S63	2451448.92	1999 Sep 27 1000:00	Black Brant IX	-	NASA 36.168UG	0.000	GSFC	SS	-	UCO/Wilkinson	EUV Astron	WWW-WFF	-	-
1999-S80	2451530.21	1999 Dec 17 1700:00	Terrier Improved Orion	-	NASA 41.020NM	0.000	GSFC	SS	-	UMD/Kim	Micrograv	WWW-WFF	CR-210570	-
2000-S06	2451586.64	2000 Feb 12 0327:00	Black Brant 9CM1	-	NASA 36.186UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WWW-WFF	ApJ575,240	-
2000-A01	2451600.71	2000 Feb 26 0459:00	Black Brant IX	-	NASA 36.162DG	0.000	GSFC	SF	U	NRL/LUX/Cruddace,Barstow	UV Astron	WWW-WFF	-	-
2000-S27	2451670.77	2000 May 6 0634:59	Black Brant IX	-	NASA 36.183UG	0.000	GSFC	SF	U	UCO/Wilkinson	UV Astron?	WWW-WFF	-	-
2000-A03	2451703.50	2000 Jun 8	SM-2	-	Aegis TMT	0.000	USNAEG	AS	-	-	Target	Wire	-	-
2000-A04	2451703.50	2000 Jun 8	SM-2	-	Aegis TMT	0.000	USNAEG	AS	-	-	Target	Wire	-	-
2000-S39	2451732.11	2000 Jul 6 1441:00	Black Brant IX	-	NASA 36.166UM	0.000	GSFC	SS	-	MIT/McKinley	Micrograv	WWW-WFF	-	-
2000-S40	2451732.93	2000 Jul 7 1025	Terrier Oriole	-	-	0.000	GSFC	SS	-	ATECH/	Test	Wire	-	-
2000-S45	2451752.25	2000 Jul 26 1806:00	Black Brant IX	-	NASA 36.185GS	0.000	GSFC	SS	-	GSFC/Davila	Solar UV	WWW-WFF	-	-
2000-S46	2451761.71	2000 Aug 5 0500:02	Black Brant IX	-	NASA 36.189UG	0.000	GSFC	SS	-	BU/Charkabarti	UV Astron	WWW-WFF	-	-
2000-S49	2451793.25	2000 Sep 5 1802:00	Black Brant IX	-	NASA 36.151US	0.000	GSFC	SS	-	SAO/Golub	Solar X	WWW-WFF	-	-
2000-S59	2451831.11	2000 Oct 13 1445:02	Terrier Improved Orion	-	NASA 41.021DP	0.000	GSFC	SS	-	AFRL/	Test?	WWW-WFF	-	-
2000-S67	2451898.00	2000 Dec 19 1157	Terrier Lynx	-	NASA 12.50DP	0.000	GSFC/SMDC	SS	-	NAWC/Winstead	Test	WISR	-	-
2001-S07	2451949.67	2001 Feb 9 0400:06	Black Brant 9CM1	-	NASA 36.198UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	WWW-WFF	ApJ616,257	-
2001-S08	2451953.19	2001 Feb 12 1628:00	Black Brant IX	-	NASA 36.187NM	0.000	GSFC	SS	-	LERC/Ross	Micrograv	WWW-WFF	-	-
2001-S13	2451962.70	2001 Feb 22 0455:00	Black Brant IX	-	NASA 36.195DG	0.000	GSFC	SS	-	NRL/LUX/Cruddace,Barstow	UV Astron	WWW-WFF	-	-
2001-S26	2452082.23	2001 Jun 21 1732:00	Black Brant IX	-	NASA 36.199US	0.000	GSFC	SS	-	SAO/Golub	Solar X	WWW-WFF	-	-
2001-S44	2452180.17	2001 Sep 27 1610	Terrier Lynx	-	NASA 42.01DP	0.000	GSFC/SMDC	SS	-	NAWC/Winstead	Test	www.wff.nasa.gov	-	-
2001-S48	2452212.60	2001 Oct 30 0231	Terrier Mk 70 Orion	-	T-Orion 5A	0.000	UQU	SF	U	UQU/Smart	Tech	HyshotFailRept	-	-
2001-S53	2452249.64	2001 Dec 6 0320:00	Black Brant IX	-	NASA 36.188UL	0.000	GSFC	SS	-	UWI/Harris	UV Astron	www.wff.nasa.gov	-	-
2002-S07	2452314.28	2002 Feb 8 1841:30	Black Brant IX	-	NASA 36.192UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	www.wff.nasa.gov	-	-
2002-S29	2452395.26	2002 Apr 30 1820:10	Black Brant IX	-	NASA 36.194US	0.000	GSFC	SS	-	STAN/Walker	Solar EUV	www.wff.nasa.gov	-	-
2002-S37	2452430.95	2002 Jun 5 1043:00	Terrier Orion	-	NASA 41.023UE	0.000	GSFC	SS	-	ERAU/Erdman	Plasma?	www.wff.nasa.gov	-	-
2002-S38	2452430.97	2002 Jun 5 1113:00	Terrier Orion	-	NASA 41.022UE	0.000	GSFC	SS	-	ERAU/Erdman	Plasma?	www.wff.nasa.gov	-	-
2002-S42	2452436.79	2002 Jun 11 0700:00	Black Brant IX	-	NASA 36.112UG	0.000	GSFC	SS	-	CIT/Martin	UV Astron	www.wff.nasa.gov	-	-
2002-S45	2452440.26	2002 Jun 14 1810:00	Black Brant IX	-	NASA 36.196DS	0.000	GSFC	SS	-	NRL/Korendyke	Solar UV	www.wff.nasa.gov	-	-
2002-S46	2452457.50	2002 Jul 1 2356:00	Terrier Orion	-	NASA 41.032GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	www.wff.nasa.gov	-	-
2002-S48	2452458.41	2002 Jul 2 2145:00	Terrier Lynx	-	NASA 42.02DP	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2002-S49	2452459.38	2002 Jul 3 2105:00	Terrier Lynx	-	NASA 42.03DP	0.000	GSFC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2002-S50	2452460.53	2002 Jul 5 0047:00	Terrier Orion	-	NASA 41.033GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	www.wff.nasa.gov	-	-
2002-S55	2452485.59	2002 Jul 30 0205	Terrier Mk 70 Orion	-	-	0.000	UQU	SS	-	UQU/Smart	Tech	www.uq.edu.au	-	-
2002-S58	2452493.27	2002 Aug 6 1830:00	Black Brant IX	-	NASA 36.202US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	www.wff.nasa.gov	-	-
2002-S69	2452596.61	2002 Nov 18 0232	Black Brant IX	-	NASA 36.197UG	0.000	GSFC	SS	-	UCO/Wilkinson	UV Astron	www.wff.nasa.gov	-	-
2002-S70	2452598.56	2002 Nov 20 0133	Terrier Orion	-	NASA 41.039DP	0.000	GSFC	SS	-	AFRL/Gerhart	Test	www.wff.nasa.gov	SPIE5388-43	-
2002-S80	2452622.97	2002 Dec 14 1116:48	Black Brant 10CM1	-	NASA 35.033GE	0.000	GSFC	SS	-	GSFC/Pfaff	Plasma	www.wff.nasa.gov	ESA-SP590-331	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2003-S02	2452664.37	2003 Jan 24 2050:00	Terrier Orion	-	NASA 41.030GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma	www.wff.nasa.gov	-	-
2003-S03	2452667.83	2003 Jan 28 0750:02	Black Brant IX	-	NASA 36.200UE	0.000	GSFC	SS	-	DART/LaBelle	Auroral	www.wff.nasa.gov	-	-
2003-S04	2452668.27	2003 Jan 28 1832:00	Terrier Orion	-	NASA 41.031GE	0.000	GSFC	SS	-	GSFC/Goldberg	Plasma/Aeron	www.wff.nasa.gov	-	-
2003-S05	2452676.81	2003 Feb 6 0730:00	Black Brant IX	-	NASA 36.204UE	0.000	GSFC	SS	-	CIT/Martin	UV Astron	www.wff.nasa.gov	-	-
2003-S08	2452723.91	2003 Mar 25 0950:01	Black Brant 10CM1	-	NASA 35.034UE	0.000	GSFC	SS	-	UAF/Conde	Auroral/Release	www.wff.nasa.gov	-	-
2003-S09	2452723.92	2003 Mar 25 1009:01	Terrier Improved Orion	-	NASA 41.034UE	0.000	GSFC	SS	-	UAF/Conde	Auroral/Release	www.wff.nasa.gov	-	-
2003-S12	2452726.01	2003 Mar 27 1209:01	Black Brant IX	-	NASA 36.206UE	0.000	GSFC	SS	-	CLEM/Larson	Auroral/Release	www.wff.nasa.gov	ESA-SP590-331	-
2003-A02	2452726.01	2003 Mar 27 1210:01	Terrier Improved Orion	-	NASA 41.028UE	0.000	GSFC	SF	U	CLEM/Larson	Auroral/Release	www.wff.nasa.gov	pfrr.alaska.edu	-
2003-S14	2452726.01	2003 Mar 27 1213:01	Terrier Improved Orion	-	NASA 41.029UE	0.000	GSFC	SS	-	CLEM/Larson	Auroral/Release	www.wff.nasa.gov	-	-
2003-S17	2452746.63	2003 Apr 17 0301:54	Black Brant IX	-	NASA 36.201UL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astron	www.cosmoworld.ru	-	-
2003-S23	2452800.77	2003 Jun 10 0631:00	Terrier Malemute	-	NASA 29.035UP	0.000	GSFC	SS	-	USU/Howlett	Tech	www.wff.nasa.gov	aprl.db.erau.edu	-
2003-S27	2452820.64	2003 Jun 30 0319:00	Terrier Improved Orion	-	NASA 41.036UE	0.000	GSFC	SS	-	UTD/Roddy,Earle	Aeron/release	GRL31,L19807	www.wff.nasa.gov	-
2003-S28	2452820.74	2003 Jun 30 0541:00	Terrier Improved Orion	-	NASA 41.037UE	0.000	GSFC	SS	-	UTD/Roddy,Earle	Aeron/release	GRL31,L19807	www.wff.nasa.gov	-
2003-S30	2452820.80	2003 Jun 30 0707:00	Terrier Improved Orion	-	NASA 41.038UE	0.000	GSFC	SS	-	UTD/Roddy,Earle	Aeron/release	GRL31,L19807	www.wff.nasa.gov	-
2003-S34	2452835.79	2003 Jul 15 0702:00	Terrier Improved Orion	-	NASA 41.025UE	0.000	GSFC	SS	-	ERAU/Erdman	Aeron	www.wff.nasa.gov	-	-
2003-S35	2452835.81	2003 Jul 15 0732:00	Terrier Improved Orion	-	NASA 41.024UE	0.000	GSFC	SS	-	ERAU/Erdman	Aeron	www.wff.nasa.gov	-	-
2003-S36	2452852.93	2003 Aug 1 1025:03	Terrier Mk 70 Orion	-	NASA 12.052GT	0.000	GSFC	SS	-	NSROC/Krause	Test	www.wff.nasa.gov	-	-
2003-S38	2452864.27	2003 Aug 12 1823:30	Black Brant IX	-	NASA 36.205UE	0.000	GSFC	SS	-	UCO/Woods	Plasma	www.wff.nasa.gov	-	-
2003-S40	2452871.96	2003 Aug 20 1105:00	Terrier Orion	-	NASA 41.040DP	0.000	GSFC	SS	-	AFRL/Valpe	Test	www.wff.nasa.gov	SPIE5388-43	-
2003-S42	2452916.10	2003 Oct 3 1430:00	Terrier Improved Orion	-	NASA 41.035UE	0.000	GSFC	SS	-	PSU/Kane	Aeron/release	www.wff.nasa.gov	-	-
2003-A11	2452931.29	2003 Oct 18 1900	Terrier Mk 70 Orion	-	FASTT SPV-1	0.000	DARPA	SS	-	ATKG/	Test	www.wff.nasa.gov	-	-
2003-S43	2452936.95	2003 Oct 24 1045:17	Terrier Mk 70 Orion	-	NASA 12.053GT	0.000	GSFC	SS	-	NSROC/Krause	Test	www.wff.nasa.gov	-	-
2003-S47	2452979.31	2003 Dec 5 1930:00	Black Brant IX	-	NASA 36.211US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	www.wff.nasa.gov	-	-
2003-S48	2452979.33	2003 Dec 5 2000	Black Brant IX	-	NASA 36.184DS	0.000	GSFC	SS	-	NRL/Moses	Solar EUV?	www.wff.nasa.gov	-	-
2003-S52	2452989.62	2003 Dec 16 0300	Black Brant IX	-	NASA 36.208UG	0.000	GSFC	SS	-	JHU/Feldman	UV Astron	www.wff.nasa.gov	ApJ628,750	-
2004-S02	2453021.02	2004 Jan 16 1229:22	Black Brant IX	-	NASA 36.210UL	0.000	GSFC	SS	-	SWRIB/Stern	UV Astron	www.wff.nasa.gov	-	-
2004-S04	2453026.87	2004 Jan 22 0857:00	Black Brant 10CM1	-	NASA 35.035UE	0.000	GSFC	SS	-	CORN/Kintner	Plasma	www.wff.nasa.gov	JGR112,A08307	-
2004-S14	2453108.65	2004 Apr 13 0330	Terrier Mk 70 Orion	-	NASA 12.54GT	0.000	GSFC	SS	-	NSROC/Krause	Test	www.wff.nasa.gov	-	-
2004-A16	2453112.21	2004 Apr 16 1656	Terrier Orion	-	FASTT SPV-2	0.000	DARPA	SS	-	ATKG/	Test	AIAA2005-3297	-	-
2004-A05	2453143.50	2004 May 18	Coyote	-	-	0.000	NAVAIR	AS	-	-	Test	Wire	-	-
2004-S19	2453157.83	2004 Jun 1 0750	Black Brant IX	-	NASA 36.209UG	0.000	GSFC	SS	-	UCO/Wilkinson,Green	UV Astron	www.wff.nasa.gov	-	-
2004-S78	2453202.50	2004 Jul 16	ARAV-ER	-	Pacific Explorer III	0.000	USNAEG	MS	-	-	Target	BMDS-TestList	-	-
2004-S28	2453224.87	2004 Aug 7 0852:55	Terrier Malemute	-	NASA 29.037UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-S29	2453224.88	2004 Aug 7 0907:30	Terrier Improved Orion	-	NASA 41.043UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-S30	2453224.88	2004 Aug 7 0911:30	Terrier Improved Orion	-	NASA 41.045UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-S34	2453232.85	2004 Aug 15 0821:53	Terrier Malemute	-	NASA 29.036UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-S35	2453232.87	2004 Aug 15 0847:00	Terrier Improved Orion	-	NASA 41.044UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-S36	2453232.87	2004 Aug 15 0851:00	Terrier Improved Orion	-	NASA 41.046UE	0.000	GSFC	SF	U	CORN/Hysell	Ionos	www.wff.nasa.gov	-	-
2004-A10	2453244.50	2004 Aug 27	Coyote	-	-	0.000	NAVAIR	AS	-	-	Test	Wire	-	-
2004-S37	2453245.45	2004 Aug 27 2242:43	Terrier Improved Orion	-	NASA 41.041UE	0.000	GSFC	SS	-	CLEM/Lehmacher	Ionos	www.wff.nasa.gov	ESASP590-167	-
2004-S41	2453256.50	2004 Sep 7 2356:00	Terrier Improved Orion	-	NASA 41.048UE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.wff.nasa.gov	-	-
2004-S46	2453265.84	2004 Sep 17 0812	Terrier Improved Orion	-	NASA 41.047UE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.wff.nasa.gov	-	-
2004-S48	2453268.48	2004 Sep 19 2330	Terrier Improved Orion	-	NASA 41.042UE	0.000	GSFC	SS	-	CLEM/Lehmacher	Ionos	ESASP590-167	www.wff.nasa.gov	-
2004-S49	2453271.62	2004 Sep 23 0300	Terrier Mk 70 Orion	-	NASA 12.56GT	0.000	GSFC	SF	U	NSROC/Krause	Test	www.wff.nasa.gov	-	-
2004-S59	2453294.23	2004 Oct 15 1728:33	Black Brant IX	-	NASA 36.217UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	www.wff.nasa.gov	-	-
2004-A13	2453333.62	2004 Nov 24 0300:00	Terrier Orion	-	NASA 12.061GT	0.000	GSFC	SF	U	NSROC/Krause	Test	www.wff.nasa.gov	-	-
2004-A15	2453353.50	2004 Dec 14	Coyote	-	-	0.000	NAVAIR	AS	-	-	Test	Wire	-	-
2005-S05	2453404.37	2005 Feb 2 2057:00	Terrier Orion	-	NASA 41.58DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target?	Wire	-	-
2005-S09	2453431.47	2005 Mar 1 2313:00	Terrier Orion	-	NASA 41.59DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target?	Wire	-	-
2005-S12	2453432.38	2005 Mar 2 2111:00	Terrier Orion	-	NASA 41.60DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target?	Wire	-	-
2005-S13	2453433.42	2005 Mar 3 2205:00	Terrier Oriole	-	NASA 45.01DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target?	Wire	-	-
2005-A02	2453453.50	2005 Mar 24	Coyote	-	-	0.000	NAVAIR	AS	-	-	Test	Wire	-	-
2005-A03	2453482.50	2005 Apr 22	Coyote	-	-	0.000	NAVAIR	AS	-	-	Test	Wire	-	-
2005-S19	2453495.90	2005 May 5 0935:00	Terrier Improved Orion	-	NASA 41.057DP	0.000	GSFC	SS	-	IBSI/Heath	Missile def/Bio	www.wff.nasa.gov	-	-
2005-S27	2453550.45	2005 Jun 28 2254	Terrier ASAS	-	NASA 12.060GT	0.000	GSFC	SS	-	WFF/Hickman	Test	www.wff.nasa.gov	-	-
2005-S29	2453559.18	2005 Jul 7 1620:00	Black Brant IX	-	NASA 36.222DS	0.000	GSFC	SS	-	NRL/Korendyke	Solar UV	www.wff.nasa.gov	-	-
2005-S31	2453586.28	2005 Aug 3 1845:00	Black Brant IX	-	NASA 36.227US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	www.wff.nasa.gov	-	-
2005-S48	2453677.44	2005 Nov 2 2234	Terrier Mk 70 Oriole	-	NASA 45.02DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2005-S50	2453689.35	2005 Nov 14 2030	Terrier Improved Orion	-	NASA 41.66DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2005-S53	2453693.38	2005 Nov 18 2113	Terrier Improved Orion	-	NASA 41.67DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2005-A07	2453714.98	2005 Dec 10 1130	Terrier Orion	-	-	0.000	GSFC/DARPA	SS	-	ATKG/	Scramjet	www.wff.nasa.gov	-	-
2005-S57	2453725.23	2005 Dec 20 1725:47	Terrier Orion	-	NASA 12.63GT	0.000	GSFC	SS	-	WFF/Hickman	Test	Rigg	www.wff.nasa.gov	-
2006-S03	2453775.28	2006 Feb 8 1847	Black Brant IX	-	NASA 36.193	0.000	GSFC	SS	-	MSU/Kankelborg	Solar EUV	www.montana.edu	www.wff.nasa.gov	-
2006-S07	2453819.64	2006 Mar 25 0315	Terrier Mk 70 Orion	-	-	0.000	UQU	SS	-	UQU/Smart	Tech	www.uq.edu.au	-	-
2006-S10	2453824.61	2006 Mar 30 0240	Terrier Mk 70 Orion	-	-	0.000	UQU	SS	-	UQU/Smart	Tech	www.uq.edu.au	-	-
2006-S12	2453831.17	2006 Apr 5 1600	Terrier Improved Orion	-	NASA 41.068NT	0.000	GSFC	SS	-	JPL/Seybold	Planetary test	www.wff.nasa.gov	AIAA2007-2896	-
2006-S14	2453838.26	2006 Apr 12 1810	Black Brant IX	-	NASA 36.203GS	0.000	GSFC	SS	-	GSFC/Rabin	Solar EUV	www.wff.nasa.gov	-	-
2006-S23	2453877.90	2006 May 22 0930	Terrier Improved Orion	-	NASA 12.58GT	0.000	GSFC	SS	-	NSROC/Costello	Test	www.wff.nasa.gov	-	-
2006-S24	2453892.17	2006 Jun 5 1605	Terrier Improved Orion	-	NASA 41.073DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S25	2453894.42	2006 Jun 7 2200	Terrier Improved Orion	-	NASA 41.071DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S26	2453895.17	2006 Jun 8 1600	Terrier Improved Orion	-	NASA 41.074DR	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target	www.wff.nasa.gov	-	-
2006-S31	2453910.46	2006 Jun 23 2302	Terrier Improved Orion	-	NASA 41.072DR Aegis	0.000	GSFC/NAWC	SS	-	NAWC/Winstead	Target ARAV-A	www.wff.nasa.gov	-	-
2006-S33	2453917.78	2006 Jul 1 0639	Terrier Improved Orion	-	NASA 41.056UO	0.000	GSFC	SS	-	PSU/Wheeler	Ionos/Plasma	www.rocketrange.no	ESA-SP-647-p139	-
2006-S46	2453969.10	2006 Aug 21 1430	Black Brant IX	-	NASA 36.238DR	0.000	GSFC	SS	-	MDA/Audenaert	Target	www.wff.nasa.gov	-	-
2006-S47	2453973.10	2006 Aug 25 1430	Black Brant IX	-	NASA 36.237DR	0.000	GSFC	SS	-	MDA/Audenaert	Target	www.wff.nasa.gov	-	-
2006-S58	2454037.25	2006 Oct 28 1758:00	Black Brant IX	-	NASA 36.233US	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	www.wff.nasa.gov	-	-
2006-S62	2454047.31	2006 Nov 7 1930	Black Brant IX	-	NASA 36.236US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	www.wff.nasa.gov	-	-
2006-S76	2454055.50	2006 Nov 16	Terrier Oriole	-	FTM-11 TRACKEX	0.000	USNAEG	MS	-	-	Target	thales-nederland.nl	-	-
2006-S63	2454060.58	2006 Nov 21 0200:00	Black Brant IX	-	NASA 36.224UH	0.000	GSFC	SS	-	UCO/Cash	XR Astron	ApJ680,328	www.wff.nasa.gov	-
2007-S03	2454120.02	2007 Jan 19 1229:01	Black Brant IX	-	NASA 36.234UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	www.wff.nasa.gov	-	-
2007-S04	2454120.02	2007 Jan 19 1230:01	Terrier Improved Orion	-	NASA 41.064UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	www.wff.nasa.gov	-	-
2007-S05	2454120.03	2007 Jan 19 1246:01	Terrier Improved Orion	-	NASA 41.065UE	0.000	GSFC	SS	-	CLEM/Larsen	Auroral	www.wff.nasa.gov	-	-
2007-S11	2454145.89	2007 Feb 14 0922:01	Terrier Orion	-	NASA 41.061	0.000	GSFC	SS	-	UAF/Craven	Aeron	www.wff.nasa.gov	-	-
2007-S12	2454145.89	2007 Feb 14 0927:11	Black Brant X	-	NASA 35.037	0.000	GSFC	SS	-	UAF/Craven	Aeron	www.wff.nasa.gov	-	-
2007-S13	2454145.90	2007 Feb 14 0936:11	Terrier Orion	-	NASA 41.063	0.000	GSFC	SS	-	UAF/Craven	Aeron	www.wff.nasa.gov	-	-
2007-S14	2454145.90	2007 Feb 14 0938:11	Terrier Orion	-	NASA 41.062	0.000	GSFC	SS	-	UAF/Craven	Aeron	www.wff.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2007-S20	2454217.40	2007 Apr 26 2131	Terrier Orion	-	Aegis FTM-11E4 Tgt	0.000	USNAEG	MS	-	-	Target	www.mda.mil	InsideWallops070507	-
2007-S35	2454266.50	2007 Jun 15	Terrier Orion	-	Aegis FTM-12-2 Targ	0.000	USNAEG/SAND	MS	-	-	Target	InsideWallops061807	-	-
2007-S36	2454266.50	2007 Jun 15	Terrier Orion	-	Aegis FTM-12-2 Targ	0.000	USNAEG/SAND	MS	-	-	Target	InsideWallops061807	-	-
2007-S26	2454272.73	2007 Jun 21 0538:00	Terrier Improved Orion	-	NASA 12.059GT	0.000	GSFC	SS	-	NSROC/Costello	Test	www.wff.nasa.gov	-	-
2007-S30	2454316.45	2007 Aug 3 2251:20	Terrier Improved Orion	-	NASA 41.069	0.000	GSFC	SS	-	UCO/Robertson	Aeron	www.rocketrange.no	-	-
2007-S32	2454319.46	2007 Aug 6 2256:00	Terrier Improved Orion	-	NASA 41.070	0.000	GSFC	SS	-	UCO/Robertson	Aeron	www.rocketrange.no	-	-
2007-S33	2454325.74	2007 Aug 13 0545	Black Brant IX	-	NASA 36.220UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	www.wff.nasa.gov	-	-
2007-S78	2454343.50	2007 Aug 31	Terrier Orion	?	Aegis FTM-11a Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2007-S45	2454350.38	2007 Sep 6 2109:00	Terrier Improved Orion	-	NASA 41.055NP	0.000	GSFC	SS	-	LARC/Player	Test?	www.wff.nasa.gov	-	-
2007-S55	2454403.68	2007 Oct 30 0412:52	Black Brant IX	-	NASA 36.218UE	0.000	GSFC	SS	-	UTD/Earle	Plasma	nasaspaceflight.com	-	-
2007-S56	2454410.50	2007 Nov 6	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	AWST071029-17	-	-
2007-S61	2454411.25	2007 Nov 6 1800	Black Brant IX	-	NASA 36.241GS	0.000	GSFC	SS	-	GSFC/Rabin	Solar EUV	www.wff.nasa.gov	-	-
2007-S59	2454411.67	2007 Nov 7 0412	Terrier Orion	-	Aegis FTM-13 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2007-S60	2454411.68	2007 Nov 7 0413	Terrier Orion	-	Aegis FTM-13 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2007-S80	2454451.50	2007 Dec 17?	Terrier Oriole	-	JFTM-1 TRACKEX	0.000	USNAEG	MS	-	-	Target	NGARAV	-	-
2008-S01	2454476.72	2008 Jan 11 0523:00	Black Brant IX	2	NASA 36.243UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	McCandliss,pc	-	-
2008-S76	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	blackanthem.com	-	-
2008-S77	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	blackanthem.com	-	-
2008-S78	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	blackanthem.com	-	-
2008-S79	2454554.50	2008 Mar 29?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	blackanthem.com	-	-
2008-S14	2454571.21	2008 Apr 14 1658	Black Brant IX	-	NASA 36.240UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	nasaspaceflight.com	-	-
2008-S18	2454587.73	2008 May 1 0530	Black Brant IX	-	NASA 36.223UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astron	www.wff.nasa.gov	-	-
2008-S27	2454630.50	2008 Jun 13	Terrier Oriole	-	FTM-14 TRACKEX	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2008-S28	2454630.50	2008 Jun 13	Terrier Oriole	-	FTM-14 TRACKEX	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2008-S35	2454661.92	2008 Jul 14 1010	Terrier Mk 70 Orion	-	NASA 41.075NP (GT?)	0.000	GSFC	SS	-	WFF/Eberspeaker,Smith	Test	nasaspaceflight.com	-	-
2008-S50	2454759.86	2008 Oct 20 0839:01	Black Brant IX	-	NASA 36.207DG	0.000	GSFC	SS	-	NRL/Kowalksi	EUV Astron	wff.nasa.gov	-	-
2008-S80	2454774.50	2008 Nov 4	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2008-S81	2454774.50	2008 Nov 4	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2008-S82	2454774.50	2008 Nov 4?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2008-S83	2454775.50	2008 Nov 5?	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2008-S84	2454775.50	2008 Nov 5	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2008-S85	2454775.50	2008 Nov 5	STAR	-	Ballistic Target	0.000	NAMFI	MS	-	-	Test	luftwaffe.de	-	-
2009-S03	2454860.91	2009 Jan 29 0949:41	Black Brant IX	-	NASA 36.242UE	0.000	GSFC	SS	-	UIA/Bounds	Auroral	wff.nasa.gov	-	-
2009-S05	2454880.91	2009 Feb 18 0952:00	Terrier Improved Orion	-	NASA 41.076	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	wff.nasa.gov	-	-
2009-S06	2454880.94	2009 Feb 18 1029:00	Terrier Improved Orion	-	NASA 41.078	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	wff.nasa.gov	-	-
2009-S07	2454880.96	2009 Feb 18 1059:00	Terrier Improved Orion	-	NASA 41.079	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	wff.nasa.gov	-	-
2009-S08	2454880.99	2009 Feb 18 1149:00	Terrier Improved Orion	-	NASA 41.077	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	wff.nasa.gov	-	-
2009-S11	2454887.95	2009 Feb 25 1045	Black Brant IX	-	NASA 36.226UG	0.000	GSFC	SS	-	CIT/Bock	IR Astron	nasaspaceflight.com	arxiv1004.5445	-
2009-S23	2454958.61	2009 May 7 0242:00	Terrier Orion	-	-	0.000	DSTO	SS	-	AFRL/DSTO/	Hypersonic	AIAA2009-7293	nasaspaceflight.com	-
2009-S25	2454980.20	2009 May 28 1652	Terrier Orion	-	NASA 41.080NR	0.000	GSFC	SS	-	ARC/Murbach	Hypersonic	wff.nasa.gov	-	-
2009-S28	2454988.50	2009 Jun 6	Terrier Lynx	-	-	0.000	MDA	MS	-	MDA/	Target	www.mda.mil	-	-
2009-S29	2454995.50	2009 Jun 13	Terrier Lynx	-	-	0.000	MDA	MS	-	MDA/	Target	www.mda.mil	-	-
2009-S30	2455008.90	2009 Jun 26 0930	Terrier Orion	-	NASA 41.083UO	0.000	GSFC	SS	-	WFF/	Education	nasaspaceflight.com	www.wff.nasa.gov	-
2009-S32	2455009.81	2009 Jun 27 0730	Black Brant IX	-	NASA 36.244UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	wff.nasa.gov	-	-
2009-S37	2455043.65	2009 Jul 31 0340	Terrier Orion	-	Aegis FTM-17 target	0.000	MDA	MS	-	-	Target	mda.mil	NGARAV	-
2009-S39	2455043.67	2009 Jul 31 0400?	Terrier Orion	-	FTX-06E1 TRACKEX	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2009-S40	2455054.70	2009 Aug 11 0450:32	Black Brant IX	-	NASA 36.229DR	0.000	MDA	MS	-	MDA/	Target	www.mda.mil	nasaspaceflight.com	-
2009-S42	2455061.04	2009 Aug 17 1252:00	Black Brant IX	-	NASA 36.254NR	0.000	GSFC	SS	-	LARC/Cheatwood	Reentry test	nasaspaceflight.com	-	-
2009-S44	2455089.24	2009 Sep 14 1740:00	Black Brant IX	-	NASA 36.221DS	0.000	GSFC	SS	-	NRL/Moses	Solar EUV	wff.nasa.gov	-	-
2009-S73	2455117.50	2009 Oct 13	Terrier Oriole	-	JFTM-3 TRACKEX	0.000	MDA	MS	-	-	Target	kratosdefense.com	-	-
2009-S72	2455117.50	2009 Oct 13	Terrier Oriole	-	JFTM-3 TRACKEX	0.000	MDA	MS	-	-	Target	kratosdefense.com	-	-
2009-S58	2455120.50	2009 Oct 16	Terrier Oriole	-	FTX-06E2	0.000	MDA	MS	-	-	Target	kratosdefense.com	mda.mil	-
2009-S59	2455120.50	2009 Oct 16	Terrier Oriole	-	FTX-06E3	0.000	MDA	MS	-	-	Target	kratosdefense.com	mda.mil	-
2009-S61	2455149.60	2009 Nov 14 0230:00	Black Brant IX	-	NASA 36.252UH	0.000	GSFC	SS	-	UCO/Cash	XR Astron	wff.nasa.gov	SPIE7732-1R	-
2009-S70	2455182.64	2009 Dec 17 0325:00	Terrier Orion	-	NASA 41.086UO	0.000	GSFC	SS	-	ERAU/Erdman	Aeron	facebook.com	www.wff.nasa.gov	-
2010-S10	2455207.46	2010 Jan 10 2300:00	Black Brant IX	-	NASA 36.247DR	0.000	MDA	MS	-	MDA/	Target	nasaspaceflight.com	-	-
2010-S20	2455231.84	2010 Feb 4 0803:07	Black Brant IX	-	NASA 36.250DR	0.000	MDA	MS	-	MDA/	Target	wff.nasa.gov	mda.mil	-
2010-S16	2455236.88	2010 Feb 9 0901:00	Terrier Improved Orion	-	NASA 41.084UE	0.000	GSFC	SS	-	UAF/Conde	Aeron TMA	www.uaf.edu	wff.nasa.gov	-
2010-S18	2455239.73	2010 Feb 12 0531:20	Black Brant IX	-	NASA 36.251DR	0.000	MDA	MS	-	MDA/	Target	wff.nasa.gov	mda.mil	-
2010-S29	2455277.53	2010 Mar 22 0045	Terrier Improved Orion	-	-	0.000	DSTO	SS	-	AFRL/DSTO/	Hypersonic	AIAA2012-1088	AWST110509-41	-
2010-S27	2455283.09	2010 Mar 27 1409:56	Terrier Imp Malemute	2	NASA 12.067GT	0.000	GSFC	SS	-	WFF/UKY/CALP/Hall	Test	wff.nasa.gov	-	-
2010-S35	2455319.91	2010 May 3 0947:00	Black Brant IX	-	NASA 36.248DR	0.000	MDA	MS	-	MDA/	Target	wff.nasa.gov	mda.mil	-
2010-S31	2455320.27	2010 May 3 1832:00	Black Brant IX	-	NASA 36.258UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	lasp.colorado.edu	-	-
2010-S36	2455337.88	2010 May 21 0900:00	Black Brant IX	-	NASA 36.270UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	wff.nasa.gov	-	-
2010-S43	2455371.97	2010 Jun 24 1117:00	Terrier Improved Orion	-	NASA 41.088UO	0.000	GSFC	SS	-	UCO/Koehler	Education	wff.nasa.gov	-	-
2010-S45	2455388.70	2010 Jul 11 0450:00	Black Brant IX	-	NASA 36.265UG	0.000	GSFC	SS	-	CIT/Bock	IR Astron	wff.nasa.gov	-	-
2010-S49	2455408.26	2010 Jul 30 1821:00	Black Brant IX	-	NASA 36.213NS	0.000	GSFC	SS	-	MSFC/Davis,Cirtain	Solar EUV	wff.nasa.gov	KellyKorreck,pc	-
2010-S50	2455412.89	2010 Aug 4 0915:03	Black Brant X	-	NASA 12.073GT	0.000	GSFC	SS	-	WFF/Hall	Test	wff.nasa.gov	-	-
2010-S53	2455432.25	2010 Aug 23 1757:00	Black Brant IX	-	NASA 36.219US	0.000	GSFC	SS	-	SWRI/Hassler	Solar UV	KellyKorreck,pc	-	-
2010-S58	2455461.05	2010 Sep 21 1307:30	Terrier Improved Orion	-	NASA 41.082NP	0.000	GSFC	SS	-	WFF/Bull	Tech	twitter/NASA_Wallops	-	-
2010-S84	2455475.50	2010 Oct 6	Terrier Oriole	?	Aegis Target	0.000	USNAEG	MS	-	-	Target	Sandia2010	-	-
2010-S85	2455475.50	2010 Oct 6	Terrier Oriole	?	Aegis Target	0.000	USNAEG	MS	-	-	Target	Sandia2010	-	-
2010-S61	2455491.21	2010 Oct 21 1700	Black Brant IX	-	NASA 36.230DR	0.000	MDA	MS	-	MDA/	Target	mda.mil	-	-
2010-S83	2455512.50	2010 Nov 12	Terrier Oriole	-	Aegis Target 16E2B	0.000	USNAEG	MS	-	USN/Kratos	Target	kratosdefense.com	-	-
2010-S69	2455537.20	2010 Dec 6 1645:00	Terrier Improved Orion	-	NASA 41.087NT	0.000	GSFC	SS	-	JPL/Heyne	Tech	wff.nasa.gov	-	-
2011-S01	2455583.76	2011 Jan 22 0610	Terrier Oriole	-	Aegis Target	0.000	USNAEG	MS	-	-	Target	wff.nasa.gov	-	-
2011-S02	2455589.95	2011 Jan 28 1046:00	Black Brant IX	-	NASA 36.257UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	wff.nasa.gov	-	-
2011-S03	2455597.84	2011 Feb 5 0811:11	Black Brant IX	-	NASA 36.256UE	0.000	GSFC	SS	-	VAP/Bailey	Aeron	wff.nasa.gov	-	-
2011-S09	2455636.50	2011 Mar 16	Terrier Oriole	-	SSTS Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2011-S11	2455644.28	2011 Mar 23 1850:00	Black Brant IX	-	NASA 36.275UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	wff.nasa.gov	lasp.coloardo.edu	-
2011-S15	2455678.83	2011 Apr 27 0800:00	Black Brant IX	-	NASA 36.278GT	0.000	GSFC	SS	-	WFF/Brodell	Test	wff.nasa.gov	gi.alaska.edu	-
2011-S19	2455722.97	2011 Jun 10 1116	Terrier Improved Orion	-	NASA 41.096GT	0.000	GSFC	SS	-	WFF/Hall	Tech	wff.nasa.gov	twitter.com/NASA_Wal	-
2011-S22	2455735.93	2011 Jun 23 1017:59	Terrier Mk 12 Imp Orion	-	NASA 41.095UO	0.000	GSFC	SS	-	WFF/Hall	Tech	wff.nasa.gov	twitter.com/NASA_Wal	-
2011-S29	2455753.08	2011 Jul 10 1400:15?	Terrier Improved Orion	-	NASA 41.091GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.wff.nasa.gov	-	-
2011-S32	2455764.00	2011 Jul 21 1158	Terrier Improved Orion	-	NASA 41.092GO	0.000	GSFC	SS	-	WFF/Rosonova	Edu/Tech	www.wff.nasa.gov	-	-
2011-S38	2455806.08	2011 Sep 1 1353	Terrier Oriole	?	Aegis Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-A23	2455813.07	2011 Sep 8 1345	Terrier	-	NASA 12.076GT	0.000	GSFC	SS	-	WFF/Brodell	Test	www.wff.nasa.gov	-	-
2011-S56	2455842.93	2011 Oct 8 1025:01	Black Brant IX	-	NASA 36.225UG	0.000	GSFC	SS	-	BU/Chakrabarti	Opt Astron	www.wff.nasa.gov	-	-
2011-S49	2455846.39	2011 Oct 11 2115:00	Terrier Improved Orion	-	NASA 41.094UE	0.000	GSFC	SS	-	UCO/Robertson	Meteor dust	www.wff.nasa.gov	-	-
2011-S50	2455848.08	2011 Oct 13 1350:00	Terrier Improved Orion	-	NASA 41.093UE	0.000	GSFC	SS	-	UCO/Robertson	Meteor dust	www.wff.nasa.gov	-	-
2011-S54	2455871.79	2011 Nov 6 0700:00	Black Brant IX	-	NASA 36.264UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astron	www.wff.nasa.gov	-	-
2011-S70	2455905.94	2011 Dec 10 1030:00	Black Brant IX	-	NASA.36.274UH	0.000	GSFC	SS	-	UCO/Cash,Zeiger	XR Astron	www.wff.nasa.gov	-	-
2011-S74	2455910.50	2011 Dec 15	Terrier Oriole	?	Aegis Target	0.000	USNAEG	MS	-	-	Target	Sandia2011	-	-
2012-S01	2455938.06	2012 Jan 11 1325:00	Terrier Imp Malemute	2	NASA 12.074GT	0.000	GSFC	SS	-	WFF/Hall	Test	www.wff.nasa.gov	-	-
2012-S06	2455976.74	2012 Feb 19 0541:07	Black Brant IX	-	NASA 36.273UE	0.000	GSFC	SS	-	CORN/Powell	Auroral	spaceref.com	-	-
2012-S10	2456008.88	2012 Mar 22 0900	Black Brant IX	-	NASA 36.277UG	0.000	GSFC	SS	-	CIT/Bock	IR Astron	wff.nasa.gov	-	-
2012-S11	2456013.87	2012 Mar 27 0858:00	Terrier Mk 70 Oriole	-	NASA 45.004UE	0.000	GSFC	SS	-	CLEM/Larsen	Aeron	wff.nasa.gov	-	-
2012-S12	2456013.87	2012 Mar 27 0859:20	Terrier Imp Malemute	1	NASA 46.002UE	0.000	GSFC	SS	-	CLEM/Larsen	Aeron	wff.nasa.gov	-	-
2012-S13	2456013.88	2012 Mar 27 0900:40	Terrier Mk 12 Imp Orion	-	NASA 41.097UE	0.000	GSFC	SS	-	CLEM/Larsen	Aeron	wff.nasa.gov	-	-
2012-S14	2456013.88	2012 Mar 27 0902:00	Terrier Imp Malemute	2	NASA 46.003UE	0.000	GSFC	SS	-	CLEM/Larsen	Aeron	wff.nasa.gov	-	-
2012-S15	2456013.88	2012 Mar 27 0903:20	Terrier Mk 70 Imp Orion	-	NASA 41.098UE	0.000	GSFC	SS	-	CLEM/Larsen	Aeron	wff.nasa.gov	-	-
2012-S17	2456015.50	2012 Mar 29	Terrier Orion	?	PAC target	0.000	MDA	MS	-	-	Target	raytheon.com	-	-
2012-A02	2456048.50	2012 May 1	Terrier Terrier Oriole	-	-	0.000	AFRL	AS	-	AFRL/DSTO/NASA/	Hypersonic	www.vcstar.com	AWST120514-15	-
2012-S20	2456057.76	2012 May 10 0618	Terrier Improved Orion	-	Aegis FTM16E2a Targ	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2012-S29	2456099.94	2012 Jun 21 1040	Terrier Mk 12 Imp Orion	-	NASA 41.101UO	0.000	GSFC	SS	-	WFF/Koehler	Tech	wff.nasa.gov	-	-
2012-S31	2456102.31	2012 Jun 23 1930	Black Brant IX	-	NASA 36.286UE	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	lasp.colorado.edu	-	-
2012-S34	2456114.28	2012 Jul 5 1849:59	Black Brant IX	-	NASA 36.284NS	0.000	GSFC	SS	-	MSFC/Cirtain	Solar EUV	www.nasa.gov	-	-
2012-S38	2456120.28	2012 Jul 11 1850	Black Brant IX	-	NASA 36.272NS	0.000	GSFC	SS	-	MSFC/Cirtain	Solar EUV	www.nasa.gov	-	-
2012-S40	2456133.30	2012 Jul 24 1917	Black Brant IX	-	NASA 36.263US	0.000	GSFC	SS	-	USCLA/Judge	Solar EUV	www.nasa.gov	-	-
2012-S47	2456182.70	2012 Sep 12 0445:00	Terrier Lynx	-	-	0.000	MDA	MS	-	NSWCWS/	Target	WRRS2012	nasaspaceflight.com	-
2012-S52	2456191.97	2012 Sep 21 1116:30	Terrier Imp Malemute	2	NASA 46.004GO	0.000	GSFC	SS	-	WFF/Rosonova	Edu/Tech	www.nasa.gov	-	-
2012-S61	2456225.50	2012 Oct 25?	Terrier Oriole	-	FTI-01 Aegis Target	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2012-S65	2456234.25	2012 Nov 2 1755:00	Black Brant IX	-	NASA 36.255US	0.000	GSFC	SS	-	UCB/Krucker	Solar X	www.nasa.gov	-	-
2012-S68	2456252.96	2012 Nov 21 1055:13	Black Brant IX	-	NASA 36.260UG	0.000	GSFC	SS	-	UMAL/BU/Cook,Danowski	UV Astron	www.nasa.gov	-	-
2012-S69	2456274.72	2012 Dec 13 0520	Black Brant IX	-	NASA 36.283UH	0.000	GSFC	SS	-	UMIAMI/Galeazzi	XR Astron	www.nasa.gov	-	-
2013-S06	2456322.45	2013 Jan 29 2250	Terrier Mk 70 Imp Orion	-	NASA 41.107GT	0.000	GSFC	SS	-	GSFC/WFF/West	Aeron/Tech	www.nasa.gov	-	-
2013-S28	2456339.27	2013 Feb 15 1834:31	Terrier Improved Orion	-	NASA 41.104GT	0.000	GSFC	SS	-	WFF/Rosonova	Tech	www.nasa.gov	-	-
2013-S21	2456363.01	2013 Mar 11 1209	Terrier Lynx	-	-	0.000	MDA	MS	-	-	Target	facebook/NASAWFF	-	-
2013-S26	2456403.83	2013 Apr 21 0800	Black Brant IX	-	NASA 36.271UG	0.000	GSFC	SS	-	UCO/Beasley,France	UV Astron	www.nasa.gov	-	-
2013-S27	2456406.23	2013 Apr 23 1730	Black Brant IX	-	NASA 36.269GS	0.000	GSFC	SS	-	GSFC/Rabin	Solar EUV	www.nasa.gov	-	-
2013-S29	2456413.82	2013 May 1 0738	Terrier Improved Orion	-	NASA 41.100DR	0.000	GSFC	SS	-	AFRL/Caton	Active plasma Sm	www.nasa.gov	-	-
2013-S30	2456423.71	2013 May 11 0500	Black Brant IX	-	NASA 36.268UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	www.nasa.gov	-	-
2013-S31	2456419.82	2013 May 7 0739:00	Terrier Oriole	-	NASA 45.005UE	0.000	GSFC	SS	-	UIUC/Kudecki	Aeron/release	www.nasa.gov	-	-
2013-S32	2456419.82	2013 May 7 0740:30	Terrier Imp Malemute	-	NASA 46.001UE	0.000	GSFC	SS	-	UIUC/Kudecki	Aeron/release	www.nasa.gov	-	-
2013-S34	2456421.81	2013 May 9 0723	Terrier Improved Orion	-	NASA 41.102DR	0.000	GSFC	SS	-	AFRL/Caton	Active plasma Sm	www.nasa.gov	-	-
2013-S40	2456463.90	2013 Jun 20 0930	Terrier Mk 12 Imp Orion	-	NASA 41.106UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2013-S46	2456478.11	2013 Jul 4 1431:40	Terrier Mk 70 Imp Orion	-	NASA 41.090GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	www.nasa.gov	-	-
2013-S53	2456513.26	2013 Aug 8 1810	Black Brant IX	-	NASA 36.239DS	0.000	GSFC	SS	-	NRL/Korendyke	Solar UV	www.nasa.gov	-	-
2013-S55	2456517.92	2013 Aug 13 1000	Terrier Imp Malemute	1	NASA 46.005UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2013-S89	2456569.73	2013 Oct 4 0533	Terrier Terrier Oriole	?	Aegis FTM-22 target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2013-S92	2456587.25	2013 Oct 21 1800	Black Brant IX	-	NASA 36.290US	0.000	GSFC	SS	-	UCO/Woods	Solar UV	www.nasa.gov	-	-
2013-S97	2456599.89	2013 Nov 3 0925	Black Brant IX	-	NASA 36.294UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astron	www.wff.nasa.gov	-	-
2013-S99	2456616.99	2013 Nov 20 1140:01	Black Brant IX	-	NASA 36.296UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	www.nasa.gov	-	-
2013-S100	2456623.58	2013 Nov 27 0153	Black Brant IX	-	NASA 36.261UG	0.000	GSFC	SS	-	BU/Clarke	UV Astron	Carveth-1406	www.wff.nasa.gov	-
2014-S02	2456672.88	2014 Jan 15 0909:00	Terrier Improved Orion	-	FTX-18 Target	0.000	MDA	SS	-	MDA/	Target	www.wff.nasa.gov	-	-
2014-S03	2456672.88	2014 Jan 15 0909:20	Terrier Improved Orion	-	FTX-18 Target	0.000	MDA	SS	-	MDA/	Target	www.wff.nasa.gov	-	-
2014-S04	2456672.88	2014 Jan 15 0909:40	Terrier Improved Orion	-	FTX-18 Target	0.000	MDA	SS	-	MDA/	Target	www.wff.nasa.gov	-	-
2014-S06	2456719.97	2014 Mar 3 1109:51	Black Brant IX	3	NASA 36.287UE	0.000	GSFC	SS	-	SWRI/Samara	Aurora	www.wff.nasa.gov	-	-
2014-S24	2456780.83	2014 May 3 0800:01	Black Brant IX	-	NASA 36.235US	0.000	GSFC	SS	-	UAZ/Harris	UV Astron	www.wff.nasa.gov	-	Geocoronal LyA
2014-S87	2456801.50	2014 May 24	Terrier Terrier Oriole	-	-	0.000	MDA/KRAT	SS	-	-	Target?	mda-budget	-	-
2014-S31	2456801.82	2014 May 24 0735:00	Black Brant IX	-	NASA 36.285UG	0.000	GSFC	SS	-	UCO/France	UV Astron	www.wff.nasa.gov	-	Delta Sco ISM
2014-S34	2456834.97	2014 Jun 26 1121:00	Terrier Mk 12 Imp Orion	-	NASA 41.110UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2014-A11	2456840.86	2014 Jul 2 0836:00	Terrier Imp Malemute	1	NASA 46.007GP	0.000	GSFC	SF	U	WFF/Rosonova	Tech	www.nasa.gov	-	-
2014-S42	2456861.30	2014 Jul 22 1910	Black Brant IX	3	NASA 36.289US	0.000	GSFC	SS	-	USCLA/Judge,Didkovskiy	Solar EUV	www.nasa.gov	-	-
2014-S45	2456893.05	2014 Aug 23 1313	Terrier Lynx	-	-	0.000	GSFC	SS	-	NSWCWS/MDA/	Target	www.nasa.gov	-	-
2014-S48	2456897.88	2014 Aug 28 0900:30	Black Brant IX	-	NASA 36.308GT	0.000	GSFC	SS	-	GSFC/WFF/Hall	Aeron/Tech	www.nasa.gov	-	C-REX risk redn
2014-S58	2456931.25	2014 Sep 30 1807	Black Brant IX	-	NASA 36.288DS	0.000	GSFC	SS	-	NRL/Vourlidas	Solar UV	www.nasa.gov	-	-
2014-S60	2456942.69	2014 Oct 12 0427	Terrier Lynx	-	-	0.000	GSFC	SS	-	NSWCWS/MDA/	Target	www.nasa.gov	-	-
2014-S71	2456968.30	2014 Nov 6 1907	Black Brant IX	-	NASA 36.253US	0.000	GSFC	SS	-	SWRI/Hassler	Solar UV	www.nasa.gov	-	-
2014-S69	2456968.42	2014 Nov 6 2203	Terrier Oriole	-	Aegis FTM-25 Target	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2014-S77	2457003.30	2014 Dec 11 1911	Black Brant IX	-	NASA 36.295US	0.000	GSFC	SS	-	UCB/Krucker	Solar X	www.nasa.gov	-	-
2015-S01	2457048.88	2015 Jan 26 0913:01	Terrier Imp Malemute	1	NASA 46.009UE	0.000	GSFC	SS	-	UAF/Collins	Aeron	www.nasa.gov	-	-
2015-S02	2457048.88	2015 Jan 26 0914	Terrier Improved Orion	-	NASA 41.111UE	0.000	GSFC	SS	-	CLEM/Larson	Aeron	www.nasa.gov	-	-
2015-S03	2457048.91	2015 Jan 26 0946:01	Terrier Imp Malemute	1	NASA 46.010UE	0.000	GSFC	SS	-	UAF/Collins	Aeron	www.nasa.gov	-	-
2015-S04	2457048.91	2015 Jan 26 0947	Terrier Improved Orion	-	NASA 41.112UE	0.000	GSFC	SS	-	CLEM/Larson	Aeron	www.nasa.gov	-	-
2015-S09	2457077.65	2015 Feb 24 0330:00	Terrier Oriole	-	FTX-19 Target	0.000	GSFC	SS	-	MDA/	Target	RRSR2015	-	-
2015-S10	2457077.65	2015 Feb 24 0330:08	Terrier Oriole	-	FTX-19 Target	0.000	GSFC	SS	-	MDA/	Target	RRSR2015	-	-
2015-S11	2457077.65	2015 Feb 24 0330:20	Terrier Oriole	-	FTX-19 Target	0.000	GSFC	SS	-	MDA/	Target	RRSR2015	-	-
2015-S12	2457079.02	2015 Feb 25 1226	Black Brant IX	-	NASA 36.299DR	0.000	GSFC	SS	-	AFRL/Pederson	Active plasma	www.nasa.gov	-	-
2015-S25	2457130.96	2015 Apr 18 1101	Terrier Imp Malemute	1	NASA 46.008UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2015-S30	2457144.85	2015 May 2 0830:01	Black Brant IX	-	NASA 36.292UH	0.000	GSFC	SS	-	UIA/McEntaffer	XR Astron	www.nasa.gov	-	-
2015-A05	2457164.30	2015 May 21 1915	Black Brant IX	-	NASA 36.300US	0.000	GSFC	SF	U	UCO/Woods	Solar UV	www.nasa.gov	-	-
2015-S35	2457198.92	2015 Jun 25 1000	Terrier Mk 12 Imp Orion	-	NASA 41.113UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2015-S38	2457210.93	2015 Jul 7 1015	Black Brant IX	2	NASA 36.313NP	0.000	GSFC	SS	-	WFF/Milliner	Tech	www.nasa.gov	-	-
2015-S41	2457246.92	2015 Aug 12 1004	Terrier Imp Malemute	1	NASA 46.012UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2015-S47	2457262.24	2015 Aug 27 1745:00	Black Brant IX	-	NASA 36.282US	0.000	GSFC	SS	-	MSU/Kankelborg	Solar EUV	www.nasa.gov	-	-
2015-S48	2457269.21	2015 Sep 3 1701	Black Brant IX	-	NASA 36.291US	0.000	GSFC	SS	-	UAH/Winebarger	Solar UV	www.nasa.gov	-	-
2015-S53	2457303.46	2015 Oct 7 2307	Black Brant IX	4	NASA 36.310GT	0.000	GSFC	SS	-	WFF/Hesh	Tech/Aeron	www.nasa.gov	-	-
2015-S67	2457315.50	2015 Oct 20	Terrier Orion	-	ASD-15 E2	0.000	USNAEG	MS	-	-	Target	navy.mil	-	-
2015-S77	2457351.68	2015 Nov 25 0417	Black Brant IX	-	NASA 36.293UG	0.000	GSFC	SS	-	BU/Chakrabarti	Opt Astron	www.wff.nasa.gov	-	-
2015-S81	2457361.75	2015 Dec 5 0600	Black Brant IX	-	NASA 36.305UH	0.000	GSFC	SS	-	UMIAMI/Galeazzi	XR Astron	www.nasa.gov	-	-
2015-S95	2457374.79	2015 Dec 18 0652	Black Brant IX	-	NASA 36.312UG	0.000	GSFC	SS	-	JHU/McCandless	UV Astron	www.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2016-S09	2457440.68	2016 Feb 22 0415	Black Brant IX	-	NASA 36.297UG	0.000	GSFC	SS	-	UCO/France	UV Astron	www.nasa.gov	-	-
2016-S10	2457449.12	2016 Mar 1 1450:00	Terrier Imp Malemute	-	NASA 46.011GP	0.000	GSFC	SS	-	WFF/Milliner	Tech	www.nasa.gov	-	-
2016-S11	2457455.00	2016 Mar 7 1205	Terrier Improved Orion	-	NASA 41.114NP	0.000	GSFC	SS	-	ARC/DeLeon	Tech	www.nasa.gov	-	-
2016-S36	2457541.29	2016 Jun 1 1900	Black Brant IX	-	NASA 36.318UE	0.000	GSFC	SS	-	UCO/Woods	Solar UV	www.nasa.gov	-	-
2016-S40	2457563.92	2016 Jun 24 1006	Terrier Improved Orion	-	NASA 41.116UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2016-S46	2457588.67	2016 Jul 19 0405	Terrier Improved Orion	-	ROTEX-T	0.000	DLR	SS	-	DLR/AACHR/	Hypersonic test	dlr.de	-	-
2016-S47	2457597.27	2016 Jul 27 1826	Black Brant IX	-	NASA 36.314NS	0.000	GSFC	SS	-	MSFC/Cirtain	Solar EUV	www.nasa.gov	-	-
2016-S49	2457617.98	2016 Aug 17 1133:30	Terrier Imp Malemute	-	NASA 46.014UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2017-S04	2457781.07	2017 Jan 27 1345	Black Brant IX	-	NASA 36.302UE	0.000	GSFC	SS	-	VAP/Bailey	Aeron	www.nasa.gov	-	-
2017-S07	2457788.85	2017 Feb 4 0830	Terrier Terrier Oriole	-	Aegis SFTM-01 Target	0.000	MDA/KRAT	MS	-	-	Target	mda.mil	-	-
2017-S15	2457806.93	2017 Feb 22 1014	Black Brant IX	-	NASA 36.303UE	0.000	GSFC	SS	-	DART/Lynch	Auroral	www.nasa.gov	-	-
2017-S16	2457814.74	2017 Mar 2 0541:00	Black Brant IX	-	NASA 36.301GE	0.000	GSFC	SS	-	GSFC/Pfaff	Auroral	www.nasa.gov	-	-
2017-S17	2457814.74	2017 Mar 2 0542:30	Black Brant IX	-	NASA 36.306GE	0.000	GSFC	SS	-	GSFC/Pfaff	Auroral	www.nasa.gov	-	-
2017-S18	2457814.83	2017 Mar 2 0750:00	Black Brant IX	-	NASA 36.304UE	0.000	GSFC	SS	-	DART/Lynch	Auroral	www.nasa.gov	-	-
2017-S51	2457827.50	2017 Mar 15	Terrier Oriole	?	AMDR Target	0.000	MDA/KRAT	MS	-	-	Target	kratosdefense.com	-	-
2017-S29	2457879.27	2017 May 5 1824:58	Black Brant IX	-	NASA 36.309US	0.000	GSFC	SS	-	SWRI/Hassler	Solar EUV	www.nasa.gov	-	-
2017-S33	2457889.91	2017 May 16 0945:00	Black Brant IX	-	NASA 36.317GP	0.000	GSFC	SS	-	WFF/Hesh	Tech	www.nasa.gov	-	-
2017-S45	2457926.72	2017 Jun 22 0520	Terrier Terrier Oriole	?	Aegis SFTM-02 Target	0.000	MDA/KRAT	MS	-	-	Target	mda.mil	-	-
2017-S46	2457926.90	2017 Jun 22 0930	Terrier Improved Orion	-	NASA 41.121UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2017-S52	2457931.72	2017 Jun 27 0510	Black Brant IX	-	NASA 36.323UG	0.000	GSFC	SS	-	UCO/France	UV Astron	www.nasa.gov	-	-
2017-S50	2457933.85	2017 Jun 29 0825:00	Terrier Imp Malemute	-	NASA 46.015GT	0.000	GSFC	SS	-	WFF/Hall	Tech/Aeron	www.nasa.gov	-	-
2017-S83	2457978.90	2017 Aug 13 0930:00	Terrier Imp Malemute	-	NASA 46.017UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2017-S81	2458005.98	2017 Sep 9 1134:00	Black Brant IX	-	NASA 36.321UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.nasa.gov	-	-
2017-S82	2458005.99	2017 Sep 9 1139:03	Terrier Malemute	-	NASA 29.042UE	0.000	GSFC	SF	U	CORN/Hysell	Ionos	www.nasa.gov	-	-
2017-M05	2458029.95	2017 Oct 3 1045	Black Brant IX	-	NASA 36.326NR	0.000	GSFC	SS	-	JPL/Clark	Tech	www.nasa.gov	-	-
2017-S87	2458021.50	2017 Sep 25	Terrier Oriole	-	-	0.000	USNAEG	MS	-	-	Target	thalesgroup.com	-	-
2017-S88	2458041.50	2017 Oct 15	Terrier Oriole	-	-	0.000	USNAEG	MS	-	-	Target	navy.mil	-	-
2017-S95	2458056.92	2017 Oct 30 1000:00	Black Brant IX	-	NASA 36.311UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	www.nasa.gov	-	-
2018-S02	2458138.01	2018 Jan 19 1217	Black Brant IX	-	NASA 36.329UH	0.000	GSFC	SS	-	UMIAMI/Galeazzi	XR Astron	www.nasa.gov	-	-
2018-S03	2458145.09	2018 Jan 26 1411:15	Terrier Improved Orion	-	NASA 41.119CE	0.000	GSFC	SS	-	ASTRA/Azeem	Aeron	Wire	-	-
2018-S04	2458145.12	2018 Jan 26 1448:00	Terrier Improved Orion	-	NASA 41.120CE	0.000	GSFC	SS	-	ASTRA/Azeem	Aeron	Wire	-	-
2018-S05	2458145.12	2018 Jan 26 1449:30	Terrier Improved Orion	-	NASA 41.121CE	0.000	GSFC	SS	-	ASTRA/Azeem	Aeron	Wire	-	-
2018-S14	2458202.95	2018 Mar 25 1051	Terrier Imp Malemute	-	NASA 46.019UO	0.000	GSFC	SS	-	WFF/Vieria	Edu	www.nasa.gov	-	-
2018-M03	2458209.18	2018 Mar 31 1619	Black Brant IX	-	NASA 36.327NR	0.000	GSFC	SS	-	JPL/Clark	Tech	www.nasa.gov	-	-
2018-S19	2458212.94	2018 Apr 4 1040	Black Brant IX	-	NASA 36.330UH	0.000	GSFC	SS	-	PSU/McEntaffer	XR Astron	www.nasa.gov	-	-
2018-S22	2458225.20	2018 Apr 16 1647	Black Brant IX	-	NASA 36.333UG	0.000	GSFC	SS	-	UCO/France	UV Astron	www.nasa.gov	-	-
2018-S65	2458261.50	2018 May 23	Terrier Malemute	-	Sandia HOT SHOT 1	0.000	SAND	SS	-	SAND/	Tech	Rummler.pc	sandia.gov	-
2018-S34	2458268.29	2018 May 29 1854	Black Brant IX	-	NASA 36.342NS	0.000	GSFC	SS	-	MSFC/Winebarger	Solar EUV	www.nasa.gov	-	-
2018-S38	2458277.14	2018 Jun 7 1517:00	Black Dagger	-	NASA 12.081BZ-DR	0.000	GSFC/SMDC	SS	-	SMDC/Creekmore	Test	www.nasa.gov	-	-
2018-S39	2458288.29	2018 Jun 18 1900:00	Black Brant IX	-	NASA 36.336UE	0.000	GSFC	SS	-	UCO/Woods	Solar UV	www.nasa.gov	-	-
2018-S40	2458290.90	2018 Jun 21 0930	Terrier Improved Orion	-	NASA 41.125UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2018-S42	2458322.75	2018 Jul 23 0600	Black Brant IX	-	NASA 36.245UH	0.000	GSFC	SS	-	NWU/Figueroa	XR Astron	www.nasa.gov	-	-
2018-S44	2458344.93	2018 Aug 14 1013	Terrier Imp Malemute	-	NASA 46.021UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2018-A134	2458369.06	2018 Sep 7 1330	Black Brant IX	-	NASA 36.328NR	0.000	GSFC	SS	-	JPL/Clark	Tech	www.nasa.gov	-	-
2018-S49	2458369.22	2018 Sep 7 1721	Black Brant IX	-	NASA 36.325US	0.000	GSFC	SS	-	UMN/Glesener	Solar X	www.nasa.gov	-	-
2018-S50	2458373.86	2018 Sep 12 0837	Terrier Oriole	?	Aegis JFTM-05 Target	0.000	USNAEG	MS	-	-	Target	www.mda.mil	-	-
2018-S71	2458459.96	2018 Dec 7 1106	Black Brant X	-	NASA 35.039GE	0.000	GSFC	SS	-	GSFC/Rowland	Auroral	www.nasa.gov	-	-
2018-S72	2458459.96	2018 Dec 7 1108	Black Brant X	-	NASA 35.040GE	0.000	GSFC	SS	-	GSFC/Rowland	Auroral	www.nasa.gov	@andoyaspace	-
2018-S80	2458470.82	2018 Dec 18 0746	Black Brant IX	4	NASA 36.331UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	www.nasa.gov	-	-
2019-S02	2458496.88	2019 Jan 13 0913:00	Terrier Imp Malemute	-	NASA 46.018UO	0.000	GSFC	SS	-	UCO/Koehler	Aeron	www.rocketrange.no	-	-
2019-S17	2458585.20	2019 Apr 11 1651	Black Brant IX	-	NASA 36.332NS	0.000	GSFC	SS	-	MSFC/McKenzie	Solar UV	www.nasa.gov	-	-
2019-S25	2458596.50	2019 Apr 23	Terrier Malemute	-	Sandia HOT SHOT	0.000	SAND	SS	-	SAND/	Tech	Rummler.pc	sandia.gov	-
2019-S26	2458597.50	2019 Apr 24	Terrier Malemute	-	Sandia HOT SHOT	0.000	SAND	SS	-	SAND/	Tech	Rummler.pc	sandia.gov	-
2019-S29	2458653.98	2019 Jun 19 1128	Black Brant IX	-	NASA 36.344UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos/Release	www.nasa.gov	-	-
2019-S30	2458653.98	2019 Jun 19 1133	Black Brant IX	-	NASA 36.345UE	0.000	GSFC	SS	-	CORN/Hysell	Ionos	www.nasa.gov	-	-
2019-S31	2458654.90	2019 Jun 20 0930	Terrier Improved Orion	-	NASA 41.126UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	WFF Facebook	-	-
2019-S43	2458706.75	2019 Aug 11 0607	Black Brant IX	-	NASA 36.346UG	0.000	GSFC	SS	-	UCO/France	UV Astron	WFF Facebook	-	-
2019-S44	2458707.91	2019 Aug 12 0944	Terrier Imp Malemute	-	NASA 46.022UP	0.000	GSFC	SS	-	UCO/Koehler	Edu	WFF Facebook	-	-
2019-S56	2458744.90	2019 Sep 18 0930?	Black Brant IX	-	NASA 36.340DR	0.000	GSFC	SS	-	TOYON/MDA/Abbett	Tech	WFF Facebook	-	-
2019-S57	2458757.25	2019 Sep 30 1804	Black Brant IX	-	NASA 36.320US	0.000	GSFC	SS	-	MSU/Kankelborg	Solar UV	WFF Facebook	-	-
2019-S64	2458764.12	2019 Oct 7 1500	Black Brant IX	-	NASA 36.343GT?	0.000	GSFC	SS	-	GSFC/Nuth	Micrograv	www.nasa.gov	-	-
2019-S82	2458775.50	2019 Oct 19	Black Dagger	-	Black Dagger	0.000	SMDC	MF	U	MDA/	Target	koat.com	-	-
2019-S65	2458781.50	2019 Oct 25 0000	Terrier Imp Malemute	-	NASA 46.020GT	0.000	GSFC	SS	-	WFF/Hesh	Tech	www.nasa.gov	-	-
2019-S66	2458784.69	2019 Oct 28 0430	Black Brant IX	-	NASA 36.352UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	www.nasa.gov	-	-
2019-S73	2458813.82	2019 Nov 26 0743	Terrier Imp Malemute	-	NASA 46.029IE	0.000	ARR	SS	-	OSLO/	Ionos	www.nasa.gov	-	-
2019-S80	2458827.90	2019 Dec 10 0930	Black Brant IX	-	NASA 36.349UE	0.000	GSFC	SS	-	CLEM/Larson	Ionos	www.nasa.gov	-	-
2020-S12	2458876.07	2020 Jan 27 1340	Black Brant IX	-	NASA 36.356UE	0.000	GSFC	SS	-	VAP/Bauley	Aeron	www.nasa.gov	-	-
2020-S29	2458900.07	2020 Feb 20 1337	Black Dagger	-	Black Dagger	0.000	SMDC	MS	-	MDA/	Target	gallupindenpendent	mda.mil	-
2020-S42	2459061.50	2020 Aug	Terrier Improved Orion	-	Pacific Dragon 2020	0.000	MDA	MS	-	-	Target	mda.mil	-	-
2020-S31	2459081.50	2020 Aug 20	Black Dagger	-	Black Dagger	0.000	SMDC	MS	-	-	Target	defensenews.com	-	-
2020-S28	2459101.25	2020 Sep 8 1800	Black Brant IX	-	NASA 36.365G	0.000	GSFC	SS	-	GSFC/Nuth	Physics	www.nasa.gov	-	-
2020-S32	2459123.50	2020 Oct 1	Black Dagger	-	Black Dagger	0.000	SMDC	MS	-	-	Target	mda.mil	-	-
2020-S37	2459155.94	2020 Nov 2 1040	Black Brant IX	-	NASA 36.368UG	0.000	GSFC	SS	-	UCO/Green	UV Astron	ww.nasa.gov	-	-
2021-S18	2459276.50	2021 Mar 3	Terrier Terrier Oriole	-	AFRL Chem. Release	0.000	AFRL	SS	-	AFRL/	Ionos	www.wff.nasa.gov	-	-
2021-S22	2459323.85	2021 Apr 19 0830	Black Brant IX	-	NASA 36.324US	0.000	GSFC	SS	-	UAZ/Haris	UV Astron	www.nasa.gov	-	-
2021-S25	2459353.27	2021 May 18 1830	Black Brant IX	-	NASA 36.322GS	0.000	GSFC	SS	-	GSFC/Daw	Solar UV	www.nasa.gov	-	-
2021-A11	2459334.50	2021 May	Coyote	-	-	0.000	NSWCPH	AS	-	-	Target	Wire	-	-
2021-S29	2459360.50	2021 May 26	Terrier Oriole	-	T4-B Target	0.000	MDA	SS	-	-	Target	Wire	-	-
2021-S31	2459361.55	2021 May 27 0115	Terrier Imp Malemute	-	NASA 46.028UE	0.000	GSFC	SS	-	UCB/Bonnell	Ionos	wff.nasa.gov	-	-
2021-S32	2459364.50	2021 May 30	Terrier Oriole	-	T4-B Target	0.000	MDA	SS	-	-	Target	Wire	-	-
2021-S34	2459372.77	2021 Jun 7 0625	Black Brant IX	-	NASA 36.281UG	0.000	GSFC	SS	-	RIT/Zemcov	IR Astron	wff.nasa.gov	-	-
2021-S36	2459391.02	2021 Jun 25 1232	Terrier Improved Orion	-	NASA 41.130UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	WFF Facebook	-	-
2021-S40	2459403.25	2021 Jul 7 1800	Black Brant IX	-	NASA 36.357GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	WFF Facebook	-	-
2021-S42	2459407.25	2021 Jul 11 1756:00	Black Brant IX	-	NASA 36.358GE	0.000	GSFC	SS	-	GSFC/Pfaff	Ionos	WFF Facebook	-	-
2021-S46	2459419.50	2021 Jul 24	Terrier Oriole	?	FTM-33 Target 1	0.000	MDA	SS	-	-	Target	Wire	-	-
2021-S47	2459419.50	2021 Jul 24	Terrier Oriole	?	FTM-33 Target 2	0.000	MDA	SS	-	-	Target	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-S50	2459426.26	2021 Jul 30 1820	Black Brant IX	-	NASA 36.319NS	0.000	GSFC	SS	-	MSFC/Winebarger	Solar X	Webcast	-	-
2021-S54	2459446.38	2021 Aug 19 2100:00	Terrier Imp Malemute	-	NASA 46.030UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	youtube.com	-	-
2021-S58	2459467.23	2021 Sep 9 1725	Black Brant IX	-	NASA 36.353US	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	wff.nasa.gov	-	-
2021-S60	2459469.42	2021 Sep 11 2207:30	Terrier Imp Malemute	-	NASA 46.033AR	0.000	GSFC	SS	-	SAND/Leathe	Tech	youtube.com	-	-
2021-S68	2459496.24	2021 Oct 8 1740	Black Brant IX	-	NASA 36.374NS	0.000	GSFC	SS	-	MSFC/McKenzie	Solar UV	nasa.gov	-	-
2021-S71	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 1	0.000	SAND	SS	-	SAND/	Hypersonic	Wire	-	-
2021-S72	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 2	0.000	SAND	SS	-	SAND/	Hypersonic	Wire	-	-
2021-S73	2459507.50	2021 Oct 20	Terrier Malemute	-	H4H 3	0.000	SAND	SS	-	SAND/	Hypersonic	Wire	-	-
2021-S85	2459526.89	2021 Nov 8 0925	Black Brant IX	-	NASA 36.373UG	0.000	GSFC	SS	-	UCO/France	UV Astron	wff.nasa.gov	-	-
2022-S01	2459588.71	2022 Jan 9 0500	Black Brant IX	-	NASA 36.363UH	0.000	GSFC	SS	-	UMIAMI/Galeazzi	XR Astron	www.nasa.gov	-	-
2022-S17	2459643.98	2022 Mar 5 1127	Black Brant IX	-	NASA 36.351GE	0.000	GSFC	SS	-	GSFC/Halford	Auroral	Wire	-	-
2022-S18	2459648.27	2022 Mar 9 1825	Black Brant IX	-	NASA 36.307DS	0.000	GSFC	SS	-	NRL/Tun	Solar UV	www.nasa.gov	-	-
2022-S23	2459650.50	2022 Mar 12	Black Dagger	-	IFMC Target	0.000	MDA	SS	-	-	Target	mda.mil	-	-
2022-S19	2459660.47	2022 Mar 21 2312	Terrier Imp Malemute	-	NASA 46.027DR	0.000	GSFC	SS	-	AFRL/Holden	Hypersonic	www.nasa.gov	-	-
2022-S20	2459667.50	2022 Mar 29	Black Dagger	-	THAAD FTT-21 Target	0.000	MDA	SS	-	-	Target	mda.mil	-	-
2022-S25	2459677.03	2022 Apr 7 1247	Terrier Imp Malemute	-	NASA 46.031UE	0.000	GSFC	SS	-	CLEM/Kaeppler	Auroral	www.nasa.gov	-	-
2022-S26	2459677.03	2022 Apr 7 1250	Black Brant IX	-	NASA 36.360UE	0.000	GSFC	SS	-	CLEM/Kaeppler	Auroral	www.nasa.gov	-	-
2022-S31	2459710.56	2022 May 11 0131	Oriole IIIA	-	NASA 47.001GE	0.000	GSFC	SS	-	GSFC/Collinson	Plasma	www.nasa.gov	-	-
2022-S54	2459754.90	2022 Jun 24 0935	Terrier Improved Orion	-	NASA 41.131UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2022-S57	2459757.10	2022 Jun 26 1429	Black Brant IX	-	NASA 36.347UH	0.000	GSFC	SS	-	UWI/GSFC/McCammon	XR Astron	www.wff.nasa.gov	-	-
2022-S58	2459767.07	2022 Jul 6 1347	Black Brant IX	-	NASA 36.339UG	0.000	GSFC	SS	-	UCO/France	UV Astron	www.wff.nasa.gov	-	-
2022-S59	2459771.96	2022 Jul 11 1101	Black Brant IX	-	NASA 36.350UG	0.000	GSFC	SS	-	UCO/Fleming	UV Astron	www.wff.nasa.gov	-	-
2022-S99	2459800.50	2022 Aug 9	Terrier Oriole	-	Target	0.000	MDA	SS	-	MDA/	Target	yahoo.com	-	-
2022-S78	2459803.42	2022 Aug 11 2208:32	Terrier Imp Malemute	-	NASA 46.036UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	Az 103
2022-S81	2459813.73	2022 Aug 22 0530	Black Brant IX	-	NASA 36.355UH	0.000	GSFC	SS	-	NWU/Figueroa	XR Astron	www.nasa.gov	-	-
2022-S83	2459815.55	2022 Aug 24 0116:00	Terrier Imp Malemute	-	NASA 46.025UE	0.000	GSFC	SS	-	ERAU/Barjatya	Ionos	www.nasa.gov	-	-
2022-S87	2459848.67	2022 Sep 26 0410	Black Brant IX	-	NASA 36.367UH	0.000	GSFC	SS	-	PSU/McEntaffer	XR Astron	www.nasa.gov	-	-
2022-S106	2459879.27	2022 Oct 26 1830	Terrier Imp Malemute	?	HOTH 2-1	0.000	SAND	SS	-	SAND/	Hypersonic	Wire	-	-
2022-S115	2459879.50	2022 Oct 27	Terrier Imp Malemute	?	HOTH 2-2	0.000	SAND	SS	-	SAND/	Hypersonic	Wire	-	-
2022-S123	2459899.50	2022 Nov 16	Terrier Terrier Oriole	-	T4-E Target	0.000	MDA	SS	-	MDA/	Target	yahoo.com	-	-
2022-S125	2459902.50	2022 Nov 19	Terrier Oriole	?	SRBM Target	0.000	MDA	SS	-	MDA/	Target	yahoo.com	-	-
2022-S127	2459904.22	2022 Nov 20 1720:00	Black Brant IX	-	NASA 36.359UE	0.000	GSFC	SS	-	UIA/Bounds	Auroral	www.nasa.gov	-	-
2022-S128	2459904.22	2022 Nov 20 1721:40	Black Brant IX	-	NASA 36.364UE	0.000	GSFC	SS	-	UIA/Bounds	Auroral	www.nasa.gov	-	-
2023-S08	2460027.38	2023 Mar 23 2100:00	Terrier Improved Orion	-	NASA 41.127UE	0.000	GSFC	SS	-	CLEM/Lemacher	Auroral	www.nasa.gov	-	-
2023-S09	2460027.38	2023 Mar 23 2102:00	Black Brant IX	-	NASA 36.361UE	0.000	GSFC	SS	-	CLEM/Lemacher	Auroral	www.nasa.gov	-	-
2023-A12	2460051.71	2023 Apr 17 0503	Black Brant IX	-	NASA 36.383UG	0.000	GSFC	SF	U	RIT/Zemcov	IR Astron	www.nasa.gov	-	-
2023-S23	2460060.47	2023 Apr 25 2315:00	Terrier Imp Malemute	-	NASA 46.032WT	0.000	GSFC	SS	-	WFF/Hesh	Tech	www.nasa.gov	-	-
2023-S24	2460068.27	2023 May 3 1830:00	Black Brant IX	-	NASA 36.389US	0.000	GSFC	SS	-	UCO/Woods	Solar EUV	wff.nasa.gov	-	-
2023-S30	2460122.33	2023 Jun 26 2000	Terrier Terrier Oriole	?	-	0.000	DMA	MS	-	-	Test	air-cosmos.com	-	-
2023-S35	2460172.93	2023 Aug 16 1021:00	Terrier Imp Malemute	-	NASA 46.038UO	0.000	GSFC	SF	U	UCO/Koehler	Edu	www.nasa.gov	-	-
2023-S36	2460173.92	2023 Aug 17 1000:00	Terrier Improved Orion	-	NASA 41.132UO	0.000	GSFC	SS	-	UCO/Koehler	Edu	www.nasa.gov	-	-
2023-S43	2460227.83	2023 Oct 10 0800:00	Black Brant IX	-	-	0.000	DLR	SS	-	DLR/	Hypersonic	Wire	-	-
2023-S44	2460232.17	2023 Oct 14 1600	Black Brant IX	-	NASA 36.386HE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2023-S45	2460232.19	2023 Oct 14 1635	Black Brant IX	-	NASA 36.387HE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2023-S46	2460232.22	2023 Oct 14 1710	Black Brant IX	-	NASA 36.388HE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2023-S47	2460242.50	2023 Oct 25	Terrier Oriole	?	SRBM Target	0.000	MDA	SS	-	-	Target	Wire	-	-
2023-S48	2460242.50	2023 Oct 25	Terrier Oriole	?	SRBM Target	0.000	MDA	SS	-	-	Target	Wire	-	-
2023-S59	2460247.74	2023 Oct 30 0545	Black Brant IX	-	NASA 36.375UG	0.000	GSFC	SS	-	UCO/Fleming	UV Astronomy	science.nasa.gov	-	-
2023-S61	2460256.90	2023 Nov 8 0941:00	Terrier Oriole	-	NASA 45.007GE	0.000	GSFC	SS	-	GSFC/Benna	Auroral	www.nasa.gov	-	-
2023-S64	2460263.50	2023 Nov 15	Terrier Terrier Imp Mal.	-	H4H 4?	0.000	SAND	SS	-	SAND/	Hypersonic	www.nasa.gov	-	-
2023-S65	2460263.50	2023 Nov 15	Terrier Terrier Imp Mal.	-	H4H 5?	0.000	SAND	SS	-	SAND/	Hypersonic	www.nasa.gov	-	-
2024-S13	2460409.28	2024 Apr 8 1840:00	Black Brant IX	-	NASA 36.392UE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2024-S14	2460409.31	2024 Apr 8 1925:00	Black Brant IX	-	NASA 36.393UE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2024-S15	2460409.35	2024 Apr 8 2028:00	Black Brant IX	-	NASA 36.394UE	0.000	GSFC	SS	-	ERAU/Barjatya	Eclipse	www.nasa.gov	-	-
2024-S31	2460418.43	2024 Apr 17 2213:00	Black Brant IX	-	NASA 36.370US	0.000	GSFC	SS	-	UMN/Glesener	Solar X	www.nasa.gov	-	-
2024-S32	2460418.43	2024 Apr 17 2214:00	Black Brant IX	-	NASA 36.371NS	0.000	GSFC	SS	-	MSFC/Savage	Solar X	www.nasa.gov	-	-
2024-S33	2460435.65	2024 May 5 0332:00	Black Brant IX	-	NASA 36.396UG	0.000	GSFC	SS	-	RIT/Zemcov	IR Astron	www.nasa.gov	-	-
2024-S38	2460473.50	2024 Jun 12	Terrier Terrier Oriole	?	HTB-1	0.000	MDA	MS	-	-	Hypersonic	www.nasa.gov	-	-
2024-S40	2460481.94	2024 Jun 20 1030	Terrier Improved Orion	-	NASA 41.133WO	0.000	GSFC	SS	-	WFF/Koehler	Edu	www.nasa.gov	-	-
2024-S44	2460508.29	2024 Jul 16 1901:00	Black Brant IX	-	NASA 36.385NS	0.000	GSFC	SS	-	MSFC/Winebarger	Solar X	www.nasa.gov	-	-
2024-S48	2460535.92	2024 Aug 13 1000:00	Terrier Imp Malemute	-	NASA 46.042WO	0.000	GSFC	SS	-	WFF/Koehler	Edu	www.nasa.gov	-	-
2024-S50	2460548.67	2024 Aug 26 0400	Black Brant IX	-	NASA 36.384UG	0.000	GSFC	SS	-	JHU/McCandliss	UV Astron	www.nasa.gov	-	-
2024-S53	2460557.31	2024 Sep 3 1921:00	Black Brant IX	-	NASA 36.366US	0.000	GSFC	SS	-	MSU/Kankelborg	Solar UV	www.nasa.gov	-	-
2024-S61	2460582.25	2024 Sep 28 1800	Terrier Oriole	?	JAKE	0.000	MDA	SS	-	-	Target?	Wire	-	-
2024-S65	2460608.47	2024 Oct 24 2310	Terrier Oriole	?	-	0.000	MDA	SS	-	-	Target?	Wire	-	-
2024-A11	2460622.21	2024 Nov 7 1700?	Coyote	?	-	0.000	USN	AS	-	-	Target	Wire	-	-
2024-A12	2460622.21	2024 Nov 7 1700?	Coyote	?	-	0.000	USN	AS	-	-	Target	Wire	-	-
2024-S69	2460625.40	2024 Nov 10 2136:00	Black Brant IX	-	NASA 36.362UE	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	andoyaspace.np	-	-
2024-S70	2460625.40	2024 Nov 10 2138:00	Terrier Improved Orion	-	NASA 41.128UE	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	andoyaspace.np	-	-
2024-S86	2460638.00	2024 Nov 23 1158:00	Black Brant IX	-	NASA 36.382UE	0.000	GSFC	SS	-	UMI/Gilchrist	Tech	www.nasa.gov	-	-
2025-S02	2460689.51	2025 Jan 14 0015	Terrier Terrier Oriole	-	HTB-2	0.000	MDA?	SS	-	DOD/	Target?	www.nasa.gov	-	-
2025-S04	2460708.80	2025 Feb 2 0707	Black Brant IX	-	NASA 36.381GE	0.000	GSFC	SS	-	GSFC/Michell	Auroral	www.nasa.gov	-	-
2025-S06	2460715.86	2025 Feb 9 0835	Black Brant IX	-	NASA 36.380GE	0.000	GSFC	SS	-	GSFC/Michell	Auroral	www.nasa.gov	-	-
2025-S13	2460759.99	2025 Mar 25 1152	Terrier Imp Malemute	-	NASA 46.034UE	0.000	GSFC	SS	-	UAF/Conde l	Auroral	www.nasa.gov	-	-
2025-S15	2460763.90	2025 Mar 29 0930	Terrier Imp Malemute	-	NASA 46.035UE	0.000	GSFC	SS	-	UAF/Conde l	Auroral	www.nasa.gov	-	-
2025-S27	2460846.85	2025 Jun 20 0827	Terrier Imp Malemute	-	NASA 46.026UE	0.000	GSFC	SS	-	ERAU/Barjatya	Ionos	www.nasa.gov	-	-
2025-S28	2460852.90	2025 Jun 26 0930	Terrier Improved Orion	-	NASA 41.134WO	0.000	GSFC	SS	-	WFF/Koehler	Edu	www.nasa.gov	-	-
2025-S30	2460854.84	2025 Jun 28 0811	Terrier Imp Malemute	-	NASA 46.037UE	0.000	GSFC	SS	-	ERAU/Barjatya	Ionos	www.nasa.gov	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-A06	2435864.53	1957 Jan 26 0045?	Thor DM-18	-	101	R&D Series I	-	-	-	CC	LC17B	-	-	0?	-	-
1957-A28	2435948.69	1957 Apr 20 0431	Thor DM-18	-	102	R&D Series I	-	-	-	CC	LC17B	-	-	0?	-	-
1957-A41	2435980.71	1957 May 22 0500?	Thor DM-18	-	103	R&D Series I (pad ex)	-	-	-	CC	LC17B	-	-	0?	-	-
1957-A89	2436081.34	1957 Aug 30 2010	Thor DM-18	-	104	R&D Series I	-	-	-	CC	LC17A	-	-	0?	-	-
1957-S111	2436102.10	1957 Sep 20 1425	Thor DM-18	-	105	R&D Series I	-	-	-	CC	LC17B	-	-	520?	-	-
1957-A116	2436115.22	1957 Oct 3 1713?	Thor DM-18	-	107	R&D Series I	-	-	-	CC	LC17A	-	-	0?	-	-
1957-S120	2436123.19	1957 Oct 11 1633	Thor DM-18	-	108	R&D Series I	-	-	-	CC	LC17B	-	-	520?	-	-
1957-S144	2436136.19	1957 Oct 24 1638	Thor DM-18	-	109	R&D Series I	-	-	-	CC	LC17A	-	-	520?	-	-
1957-S173	2436180.42	1957 Dec 7 2211	Thor DM-18	-	112	R&D Series II	-	-	-	CC	LC17B	-	-	520?	-	-
1957-S182	2436192.33	1957 Dec 19 1957	Thor DM-18	-	113	R&D Series II	-	-	-	CC	LC17A	-	-	520?	-	-
1958-A06	2436232.34	1958 Jan 28 2016	Thor DM-18	-	114	R&D Series II	-	-	-	CC	LC17A	-	-	0?	-	-
1958-A13	2436263.05	1958 Feb 28 1308	Thor DM-18	-	120	R&D Series II	-	-	-	CC	LC17B	-	-	0?	-	-
1958-A33	2436313.06	1958 Apr 19 1330	Thor DM-18	-	121	R&D Series II	-	-	-	CC	LC17B	-	-	0?	-	-
1958-S303	2436317.51	1958 Apr 24 0010	Thor Able	-	116	Able RTV	-	-	-	CC	LC17A	-	-	80?	-	-
1958-S79	2436359.39	1958 Jun 4 2117	Thor DM-18	-	115	R&D Series III	-	-	-	CC	LC18B	-	-	520?	-	-
1958-S84	2436368.13	1958 Jun 13 1506	Thor DM-18	-	122	R&D Series III	-	-	-	CC	LC17B	-	-	520?	-	-
1958-S97	2436394.62	1958 Jul 10 0249	Thor Able	-	118	Able RTV	-	-	-	CC	LC17A	-	-	1600	-	-
1958-S100	2436396.77	1958 Jul 12 0636	Thor DM-18	-	123	R&D Series III	-	-	-	CC	LC17B	-	-	520?	-	-
1958-S107	2436408.43	1958 Jul 23 2213	Thor Able	-	119	Able RTV	-	-	-	CC	LC17A	-	-	1600	-	-
1958-A82	2436410.78	1958 Jul 26 0640	Thor DM-18	-	126	R&D Series III	-	-	-	CC	LC17B	-	-	0?	-	-
1958-S135	2436422.35	1958 Aug 6 2024	Thor DM-18	-	117	R&D Series III	-	-	-	CC	LC18B	-	-	520?	-	-
1958-F09	2436433.01	1958 Aug 17 1218	Thor Able I	-	127	Able/Pioneer	Able 1	-	-	CC	LC17A	-	-	16	-	-
1958 ETA	2436487.86	1958 Oct 11 0842:13	Thor Able I	-	130	Pioneer 1	Able 2	-	-	CC	LC17A	-	-	113378	-	-
1958-S251	2436512.87	1958 Nov 5 0853	Thor DM-18A	-	138	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1958-F19	2436515.81	1958 Nov 8 0730:21	Thor Able I	-	129	Pioneer 2	Able 3	-	-	CC	LC17A	-	-	1550	-	-
1958-S269	2436533.88	1958 Nov 26 0909	Thor DM-18A	-	140	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1958-S279	2436543.53	1958 Dec 6 0041	Thor DM-18A	-	145	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1958-S292	2436554.49	1958 Dec 16 2344:45	Thor DM-18A	-	151	OT	-	TUNE UP	-	V	75-1-1	-	-	520?	-	-
1958-S288	2436554.67	1958 Dec 17 0400	Thor DM-18A	-	146	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1958-A172	2436568.58	1958 Dec 31 0202	Thor DM-18A	-	149	R&D Series IV	-	-	-	CC	LC18B	-	-	0	-	-
1959-E01	2436589.50	1959 Jan 21	Thor Agena A	-	160/1019	Discoverer 0	-	TAG000	-	V	75-3-4	-	-	0	-	-
1959-S291	2436591.71	1959 Jan 23 0509	Thor Able II	-	128	RVX-1	-	-	-	CC	LC17A	-	-	100?	-	-
1959-S12	2436599.50	1959 Jan 30 2353	Thor DM-18A	-	154	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S20	2436627.83	1959 Feb 28 0758	Thor Able II	-	131	RVX-1	-	-	-	CC	LC17A	-	-	1230?	-	-
1959 BET	2436628.41	1959 Feb 28 2149:16	Thor Agena A	-	163/1022	Discoverer 1	CORONA Test Vehicle 2	TAG001/FLYING YANKEE	-	V	75-3-4	-	-	968	-	-
1959-S34	2436648.76	1959 Mar 21 0619	Thor Able II	-	132	RVX-1	-	-	-	CC	LC17A	-	-	1230?	-	-
1959-S35	2436649.54	1959 Mar 22 0058	Thor DM-18A	-	158	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S37	2436654.67	1959 Mar 27 0402	Thor DM-18A	-	162	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S45	2436666.77	1959 Apr 8 0635	Thor Able II	-	133	RVX-1	-	-	-	CC	LC17A	-	-	1230	-	-
1959 GAM	2436672.39	1959 Apr 13 2118:39	Thor Agena A	-	170/1018	Discoverer 2	CORONA BIO 1	TAG002/EARLY TIME	-	V	75-3-4	-	-	344	-	-
1959-S49	2436675.37	1959 Apr 16 2046	Thor DM-18A	-	161	IWST	-	LIONS ROAR	-	V	75-2-8	-	-	520?	-	-
1959-S55	2436681.73	1959 Apr 23 0529	Thor DM-18A	-	176	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S56	2436683.71	1959 Apr 25 0505	Thor DM-18A	-	164	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S68	2436701.23	1959 May 12 1735	Thor DM-18A	-	187	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S73	2436709.78	1959 May 21 0640	Thor Able II	-	135	RVX-1	-	-	-	CC	LC17A	-	-	1200?	-	-
1959-S74	2436711.61	1959 May 23 0242	Thor DM-18A	-	184	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-F02	2436723.34	1959 Jun 3 2009:20	Thor Agena A	-	174/1020	Discoverer 3	CORONA BIO 2	TAG003/GOLD DUKE	-	V	75-3-4	-	-	250?	-	-
1959-S85	2436730.78	1959 Jun 11 0644	Thor Able II	-	137	RVX-1	-	-	-	CC	LC17A	-	-	1200?	-	-
1959-A100	2436736.41	1959 Jun 16 2145	Thor DM-18A	-	191	IWST	-	RIFLE SHOT	-	V	75-2-7	-	-	10?	10?	-
1959-U01	2436745.45	1959 Jun 25 2247:45	Thor Agena A	-	179/1023	Discoverer 4	CORONA C-1	TAG004/LONG ROAD	-	V	75-3-5	-	-	177	-	-
1959-S96	2436745.64	1959 Jun 26 0318	Thor DM-18A	-	198	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S99	2436749.61	1959 Jun 30 0237	Thor DM-18A	-	194	R&D Series IV Lofted	-	-	-	CC	LC17B	-	-	1000?	-	-
1959-A119	2436770.81	1959 Jul 21 0733	Thor DM-18A	-	203	R&D Series IV	-	-	-	CC	LC17B	-	-	1	-	-
1959-S124	2436774.03	1959 Jul 24 1247	Thor DM-18A	-	202	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S132	2436784.40	1959 Aug 3 2141	Thor DM-18A	-	175	IWST	-	BEAN BALL	-	V	75-1-1	-	-	520?	-	-
1959-S133	2436786.62	1959 Aug 6 0248	Thor DM-18A	-	208	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959 DEL	2436788.10	1959 Aug 7 1424:20	Thor Able III	-	134	Explorer 6	NASA S-2	-	-	CC	LC17A	-	-	42469	-	-
1959 EPS	2436794.29	1959 Aug 13 1900:08	Thor Agena A	-	192/1029	Discoverer 5	CORONA C-2	TAG005/FLY HIGH	-	V	75-3-4	-	-	1750	-	-
1959-S141	2436794.88	1959 Aug 14 0900?	Thor DM-18A	-	204	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-A138	2436795.32	1959 Aug 14 1936:04	Thor DM-18A	-	190	IWST	-	SHORT SKIP	-	V	75-2-6	-	-	0?	-	-
1959 ZET	2436800.31	1959 Aug 19 1924:44	Thor Agena A	-	200/1028	Discoverer 6	CORONA C-3	TAG006/HURRY UP	-	V	75-3-5	-	-	846	-	-
1959-S152	2436808.03	1959 Aug 27 1246	Thor DM-18A	-	216	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S169	2436823.75	1959 Sep 12 0603	Thor DM-18A	-	217	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-F08	2436829.11	1959 Sep 17 1434	Thor Able II	M1	136	Transit 1A	Transit 1A	-	-	CC	LC17A	-	-	640	-	-
1959-S177	2436829.38	1959 Sep 17 2109	Thor DM-18A	-	228	IWST	-	GREASE GUN	-	V	75-1-2	-	-	520?	-	-
1959-S184	2436834.25	1959 Sep 22 1800	Thor DM-18A	-	222	R&D Series IV	-	-	-	CC	LC17B	-	-	520	-	-
1959-S198	2436848.20	1959 Oct 6 1641	Thor DM-18A	-	235	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S200	2436848.27	1959 Oct 6 1826	Thor DM-18A	-	239	IWST	-	FOREIGN TRAVEL	-	V	75-2-8	-	-	520?	-	-
1959-S210	2436855.68	1959 Oct 14 0415	Thor DM-18A	-	221	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959-S217	2436863.46	1959 Oct 21 2257	Thor DM-18A	-	220	IWST	-	STAND FAST	-	V	75-1-1	-	-	520?	-	-
1959-S224	2436870.59	1959 Oct 29 0212	Thor DM-18A	-	230	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-S231	2436876.67	1959 Nov 4 0358	Thor DM-18A	-	238	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959 KAP	2436880.35	1959 Nov 7 2028:41	Thor Agena A	-	206/1051	Discoverer 7	CORONA C-4	TAG007/CARGO NET	-	V	75-3-4	-	-	820	-	-
1959-S239	2436885.31	1959 Nov 12 1924	Thor DM-18A	-	181	IWST	-	BEACH BUGGY	-	V	75-1-2	-	-	520?	-	-
1959-S243	2436892.54	1959 Nov 20 0056	Thor DM-18A	-	244	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1959 LAM	2436893.31	1959 Nov 20 1925:24	Thor Agena A	-	212/1050	Discoverer 8	CORONA C-5	TAG008/LIVID LADY	-	V	75-3-5	-	-	1658	-	-
1959-S260	2436904.21	1959 Dec 1 1700?	Thor DM-18A	-	254	R&D Series IV	-	-	-	CC	LC18B	-	-	520?	-	-
1959-A200	2436904.73	1959 Dec 2 0529	Thor DM-18A	-	265	CTL	-	HARD RIGHT	-	V	75-1-1	-	-	0?	-	-
1959-A205	2436917.59	1959 Dec 15 0214	Thor DM-18A	-	185	IWST	-	TALL GIRL	-	V	75-1-2	-	-	0?	-	-
1959-S271	2436920.26	1959 Dec 17 1818	Thor DM-18A	-	255	R&D Series IV	-	-	-	CC	LC17B	-	-	520?	-	-
1960-S11	2436948.19	1960 Jan 14 1635	Thor DM-18C	-	256	Special Test	-	-	-	CC	LC18B	-	-	520?	-	-
1960-S18	2436955.34	1960 Jan 21 2010	Thor DM-18A	-	215	IWST	-	RED CABOOSE	-	V	75-1-2	-	-	520?	-	-
1960-F01	2436969.29	1960 Feb 4 1851:45	Thor Agena A	-	218/1052	Discoverer 9	CORONA C-6	TAG009/HUNGRY EYE	-	V	75-3-4	-	-	200?	-	-
1960-S32	2436974.22	1960 Feb 9 1711	Thor DM-18C	-	259	Special Test	-	-	-	CC	LC18B	-	-	520?	-	-
1960-F02	2436984.34	1960 Feb 19 2015:14	Thor Agena A	-	223/1054	Discoverer 10	CORONA C-7	TAG010/DERBY DAY	-	V	75-3-5	-	-	6	-	-
1960-S43	2436994.17	1960 Feb 29 1600	Thor DM-18C	-	263	Special Test	-	-	-	CC	LC18B	-	-	520?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S46	2436996.34	1960 Mar 2 2006	Thor DM-18A	-	272	CTL	-	CENTER BOARD	-	V	75-2-8	-	-	520?	-	-
1960 ALP	2437005.04	1960 Mar 11 1300:07	Thor Able IV	-	219	Pioneer 5	P-2	-	-	CC	LC17A	-	-	150000	-	-
1960 BET	2437025.99	1960 Apr 1 1140:09	Thor Able II	M1	148	Tiros 1	A-1	-	-	CC	LC17A	-	-	913	-	-
1960 GAM	2437038.00	1960 Apr 13 1202:36	Thor Ablestar	-	257/AB002	Transit 1B	Transit 1B	-	-	CC	LC17B	-	-	835	-	-
1960 DEL	2437040.35	1960 Apr 15 2030:37	Thor Agena A	-	234/1055	Discoverer 11	CORONA C-8	TAG011/RAM HORN	-	V	75-3-5	-	-	603	-	-
1960-F07	2437067.89	1960 May 13 0916:05	Thor Delta	-	144/D001	Echo	A-10 Echo	-	-	CC	LC17A	-	-	1668	-	-
1960 ETA	2437107.75	1960 Jun 22 0554	Thor Ablestar	-	281/AB003	Transit 2A/GRAB	Transit 2A	-	-	CC	LC17B	-	-	1061	-	-
1960-S139	2437108.48	1960 Jun 22 2326	Thor DM-18A	-	233	CTL	-	CLAN CHATTAN	-	V	75-2-7	-	-	520?	-	-
1960-F08	2437115.42	1960 Jun 29 2200:44	Thor Agena A	-	160/1053	Discoverer 12	CORONA Diagnostic 1	TAG012/RED GARTER	-	V	75-3-4	-	-	205?	-	-
1960 THE	2437157.36	1960 Aug 10 2037:54	Thor Agena A	-	231/1057	Discoverer 13	CORONA Diagnostic 2	TAG013/FROGGY BOTTOM	-	V	75-3-5	-	-	688	-	-
1960 IOT	2437158.90	1960 Aug 12 0939:43	Thor Delta	-	270/D002	Echo 1	A-11	-	-	CC	LC17A	-	-	2147	-	-
1960 KAP	2437165.33	1960 Aug 18 1957:08	Thor Agena A	-	237/1056	Discoverer 14	CORONA C-9	TAG014/LIMBER LEG	-	V	75-3-4	-	-	808	-	-
1960-F10	2437165.33	1960 Aug 18 1958	Thor Ablestar	-	262/AB004	Courier 1A	Courier 1A	-	-	CC	LC17B	-	-	24	-	-
1960 MU	2437191.43	1960 Sep 13 2213:39	Thor Agena A	-	246/1058	Discoverer 15	CORONA C-10	TAG015/COFFEE CALL	-	V	75-3-5	-	-	755	-	-
1960 NU	2437212.24	1960 Oct 4 1750	Thor Ablestar	-	293/AB005	Courier 1B	Courier 1B	-	-	CC	LC17B	-	-	1251	-	-
1960-S315	2437219.41	1960 Oct 11 2153	Thor DM-18A	-	186	CTL	-	LEFT RUDDER	-	V	75-2-8	-	-	520?	-	-
1960-F15	2437234.35	1960 Oct 26 2026:09	Thor Agena B	-	253/1061	Discoverer 16	CORONA C'-1	TAG016/SOUP SPOON	-	V	75-3-4	-	-	213	-	-
1960 OMI	2437251.36	1960 Nov 12 2042:32	Thor Agena B	-	297/1062	Discoverer 17	CORONA C'-2	TAG017/BOXING GLOVE	-	V	75-3-5	-	-	981	-	-
1960 PI	2437261.97	1960 Nov 23 1113:03	Thor Delta	-	245/D003	Tiros 2	NASA A-2	-	-	CC	LC17A	-	-	744	-	-
1960-F16	2437269.33	1960 Nov 30 1950	Thor Ablestar	-	283/AB006	Transit 3A/GRAB	Transit 3A	-	-	CC	LC17B	-	-	100?	-	-
1960 SIG	2437276.35	1960 Dec 7 2020:58	Thor Agena B	-	296/1103	Discoverer 18	CORONA C'-3	TAG018/POWER TRACTOR	-	V	75-3-4	-	-	685	-	-
1960-S404	2437282.34	1960 Dec 13 2008	Thor DM-18A	-	267	CTL	-	ACTION TOWN?	-	V	75-2-8	-	-	520?	-	-
1960 TAU	2437289.36	1960 Dec 20 2032	Thor Agena B	-	258/1101	Discoverer 19	CORONA RM-1	TAG019/TEE BIRD	-	V	75-3-5	-	-	628	-	-
1961 EPS	2437348.35	1961 Feb 17 2025:02	Thor Agena B	-	298/1104	Discoverer 20	ARGON 1	TAG020/SPIRIT LEVEL	-	V	75-3-4	-	-	790	-	-
1961 ZET	2437349.46	1961 Feb 18 2257:58	Thor Agena B	-	261/1102	Discoverer 21	CORONA RM-2	TAG021/BENCH WARRANT	-	V	75-3-5	-	-	1067	-	-
1961 ETA	2437352.66	1961 Feb 22 0345	Thor Ablestar	-	313/AB007	Transit 3B	Transit 3B	-	-	CC	LC17B	-	-	984	-	-
1961 KAP	2437384.14	1961 Mar 25 1517:04	Thor Delta	-	295/D004	Explorer 10	P-14	-	-	CC	LC17A	-	-	150000	-	-
1961-S97	2437388.72	1961 Mar 30 0513:43	Thor DM-18A	-	243	CTL	-	SHEPHERDS BUSH	-	V	75-2-7	-	-	520?	-	-
1961-F02	2437389.36	1961 Mar 30 2034:43	Thor Agena B	-	300/1105	Discoverer 22	CORONA C'-4	TAG022/FEATHER CUT	-	V	75-3-4	-	-	200?	-	-
1961 LAM	2437398.31	1961 Apr 8 1921:08	Thor Agena B	-	307/1106	Discoverer 23	ARGON 2	TAG023/RUNNING BOARD	-	V	75-3-5	-	-	1615	-	-
1961-F05	2437459.39	1961 Jun 8 2116	Thor Agena B	-	302/1108	Discoverer 24	ARGON 3	TAG024/ISLAND QUEEN	-	V	75-3-4	-	-	200?	-	-
1961 XI	2437467.46	1961 Jun 16 2302:52	Thor Agena B	-	303/1107	Discoverer 25	CORONA C'-5	TAG025/MARKED CARD	-	V	75-1-1	-	-	405	-	-
1961-S183	2437471.50	1961 Jun 20 2354	Thor DM-18A	-	276	CTL	-	WHITE BISHOP	-	V	75-2-7	-	-	520?	-	-
1961 OMI	2437479.68	1961 Jun 29 0423	Thor Ablestar	-	315/AB008	Transit 4A/GRAB	Transit 4A	-	-	CC	LC17B	-	-	1005	-	-
1961 PI	2437488.48	1961 Jul 7 2329:48	Thor Agena B	-	308/1109	Discoverer 26	CORONA C'-6	TAG026/HIGH WING	-	V	75-3-5	-	-	804	-	-
1961 RHO	2437492.93	1961 Jul 12 1025:06	Thor Delta	-	286/D005	Tiros 3	NASA A-3	-	-	CC	LC17A	-	-	973	-	-
1961-F07	2437502.44	1961 Jul 21 2235:00	Thor Agena B	-	322/1110	Discoverer 27	ARGON 4	TAG027/STACKED DECK	-	V	75-3-4	-	-	10	-	-
1961-F08	2437515.50	1961 Aug 4 0001	Thor Agena B	-	309/1111	Discoverer 28	CORONA C'-7	TAG028/CRISP BACON	-	V	75-1-1	-	-	200?	-	-
1961 UPS	2437527.64	1961 Aug 16 0321:05	Thor Delta	-	312/D006	Explorer 12	NASA S-3	-	-	CC	LC17A	-	-	77340	-	-
1961 PSI	2437542.33	1961 Aug 30 2000	Thor Agena B	-	323/1112	Discoverer 29	CORONA C'''-1	TAG029/FULL BLOWER	-	V	75-3-4	-	-	542	-	-
1961-S269	2437549.44	1961 Sep 6 2230	Thor DM-18A	-	165	CTL	-	SKYE BOAT	-	V	LE-7	-	-	520?	-	-
1961 OME	2437555.33	1961 Sep 12 1959	Thor Agena B	-	310/1113	Discoverer 30	CORONA C'''-2	TAG030/TWISTED BRAIDS	-	V	75-3-5	-	-	558	-	-
1961 A BET	2437560.38	1961 Sep 17 2100	Thor Agena B	-	324/1114	Discoverer 31	CORONA C'''-3	TAG031/CANE POLE	-	V	75-1-1	-	-	403	-	-
1961 A GAM	2437586.31	1961 Oct 13 1922	Thor Agena B	-	328/1115	Discoverer 32	CORONA C'''-4	TAG032/CAP PISTOL	-	V	75-3-4	-	-	392	-	-
1961-F10	2437596.31	1961 Oct 23 1923	Thor Agena B	-	329/1116	Discoverer 33	CORONA C'-8	TAG033/DEAD HEAT	-	V	75-3-5	-	-	420?	-	-
1961 A EPS	2437609.33	1961 Nov 5 2000:30	Thor Agena B	-	330/1117	Discoverer 34	CORONA C'-9	TAG034/FOG CUTTER	-	V	75-1-1	-	-	1005	-	-
1961 A ZET	2437619.39	1961 Nov 15 2122:46	Thor Agena B	-	326/1118	Discoverer 35	CORONA C'-10	TAG035/CAT FIGHT	-	V	75-3-4	-	-	304	-	-
1961 A ETA	2437619.43	1961 Nov 15 2226	Thor Ablestar	-	305/AB009?	Transit 4B	Transit 4B	-	-	CC	LC17B	-	-	1149	-	-
1961-S410	2437639.56	1961 Dec 6 0130	Thor DM-18A	-	214	CTL	-	PIPERS DELIGHT	-	V	LE-8	-	-	520?	-	-
1961 A KAP	2437646.36	1961 Dec 12 2040:21	Thor Agena B	-	325/1119	Discoverer 36	CORONA C'''-5	TAG036/SILVER STRIP	-	V	75-3-4	-	-	488	-	-
1962-F01	2437678.40	1962 Jan 13 2141:02	Thor Agena B	-	327/1120	Discoverer 37	CORONA C'''-6	TAG037/CANDY WRAPPER	-	V	75-3-4	-	-	200?	-	-
1962-S14	2437679.96	1962 Jan 15 1107:01	Thor DSV-2D	-	337	AVT-1	Echo A-12	-	-	CC	LC17A	-	-	1505	-	-
1962-F02	2437688.90	1962 Jan 24 0930	Thor Ablestar	-	311/AB010	NRL Composite 1/GRAB	GRAB SV4	-	-	CC	LC17B	-	-	150?	-	-
1962 BET	2437704.03	1962 Feb 8 1243:45	Thor Delta	-	317/D007	Tiros 4	NASA A-9	-	-	CC	LC17A	-	-	944	-	-
1962 DEL	2437717.28	1962 Feb 21 1844	Thor Agena B	-	332/2301	FTV 2301	Ferret 1	TAG038/CABLE SPLICE	-	V	75-3-5	-	-	220	-	-
1962 EPS	2437723.32	1962 Feb 27 1939:20	Thor Agena B	-	241/1123	Discoverer 38	CORONA M-1	TAG039/CAREER GIRL	-	V	75-3-4	-	-	433	-	-
1962 ZET	2437731.17	1962 Mar 7 1606:18	Thor Delta	-	301/D008	OSO 1	NASA S-16	-	-	CC	LC17A	-	-	623	-	-
1962-S72	2437743.48	1962 Mar 19 2328	Thor DM-18A	-	229	CTL	-	BLACK KNIFE	-	V	LE-7	-	-	520?	-	-
1962 LAM	2437772.54	1962 Apr 18 0053:47	Thor Agena B	-	331/1124	Discoverer 39	CORONA M-2	TAG040/LONG SLICE	-	V	75-3-5	-	-	543	-	-
1962 OMI	2437781.25	1962 Apr 26 1800:16	Thor Delta	-	320/D009	Ariel 1	UK 1	-	-	CC	LC17A	-	-	1222	-	-
1962 RHO	2437783.52	1962 Apr 29 0030:12	Thor Agena B	-	333/1125	CORONA 40/9033	CORONA M-3	TAG041/TOTAL TIME	-	V	75-3-4	-	-	474	-	-
1962-S121	2437787.49	1962 May 2 2344:53	Thor DSV-2E	-	177	TIGERFISH	-	TIGERFISH	-	JI	LE1	-	-	500?	-	-
1962-F04	2437795.00	1962 May 10 1206	Thor Ablestar	-	314/AB011	ANNA 1A	ANNA 1A	-	-	CC	LC17B	-	-	200?	-	-
1962 SIG	2437800.32	1962 May 15 1936	Thor Agena B	-	334/1126	CORONA 41/9034A	ARGON 5	TAG042/HOLE PUNCH	-	V	75-3-5	-	-	649	-	-
1962 PHI	2437814.54	1962 May 30 0100:04	Thor Agena B	-	336/1128	CORONA 42/9035	CORONA M-4	TAG043/LEAK PROOF	-	V	75-1-1	-	-	351	-	-
1962 CHI	2437817.52	1962 Jun 2 0031:28	Thor Agena B	-	335/1127	CORONA 43/9036	CORONA M-5	TAG044/KNOTTY PINE	-	V	75-3-4	-	-	401	-	-
1962-S161	2437819.91	1962 Jun 4 0944:17	Thor DSV-2E	-	199	BLUEGILL	-	BLUEGILL	-	JI	LE1	-	-	500?	-	-
1962 OME	2437834.35	1962 Jun 18 2020	Thor Agena B	-	343/2312	FTV 2312	Ferret 2	TAG045/TASTY TREAT	-	V	75-3-5	-	-	406	-	-
1962-S193	2437834.52	1962 Jun 19 0030	Thor DM-18A	-	269	CTL	-	BLAZING CINDERS	-	V	LE-8	-	-	520?	-	-
1962 A ALP	2437835.01	1962 Jun 19 1219:01	Thor Delta	-	321/D010	Tiros 5	Tiros E	-	-	CC	LC17A	-	-	1093	-	-
1962-A98	2437835.87	1962 Jun 20 0846:16	Thor DSV-2E	-	193	STARFISH	-	STARFISH	-	JI	LE1	-	-	10	-	-
1962 A BET	2437838.52	1962 Jun 23 0030:47	Thor Agena B	-	339/1129	CORONA 44/9037	CORONA M-6	TAG046/TIGHT SHIRT	-	V	75-3-4	-	-	314	-	-
1962 A GAM	2437843.55	1962 Jun 28 0109	Thor Agena D	-	340/1151	CORONA 45/9038	CORONA M-7	TAG047/TRIAL TRACK	-	V	75-1-1	-	-	699	-	-
1962-S235	2437854.87	1962 Jul 9 0846:28	Thor DSV-2E	-	195	STARFISH PRIME	Echo A-12	STARFISH PRIME	-	JI	LE1	-	-	400	-	-
1962 A EPS	2437855.86	1962 Jul 10 0835:05	Thor Delta	-	316/D011	Telstar 1	Telstar 1	-	-	CC	LC17B	-	-	5651	-	-
1962-S245	2437863.90	1962 Jul 18 0930:12	Thor DSV-2D	-	338	AVT 2	-	-	-	CC	LC17A	-	-	1484	-	-
1962 A ETA	2437866.54	1962 Jul 21 0056:40	Thor Agena B	-	342/1130	CORONA 46/9039	CORONA M-8	TAG048/ADOBE HOME	-	V	75-3-5	-	-	382	-	-
1962-A115	2437871.88	1962 Jul 26 0913:53	Thor DSV-2E	-	180	BLUEGILL PRIME	-	BLUEGILL PRIME	-	JI	LE1	-	-	0	-	-
1962 A THE	2437873.52	1962 Jul 28 0030:09	Thor Agena B	-	347/1131	CORONA 47/9040	CORONA M-9	TAG049/ANCHOR ROPE	-	V	75-3-4	-	-	404	-	-
1962 A KAP	2437878.51	1962 Aug 2 0017	Thor Agena D	-	344/1152	CORONA 48/9041	CORONA M-10	TAG050/APPLE GREEN	-	V	75-1-1	-	-	513	-	-
1962 A SIG	2437905.54	1962 Aug 29 0100:36	Thor Agena D	-	349/1153	CORONA 49/9044	CORONA M-11	TAG051/APPLE RIND	-	V	75-1-2	-	-	394	-	-
1962 A UPS	2437909.36	1962 Sep 1 2039:09	Thor Agena B	-	348/1132	CORONA 50/9042A	ARGON 10	TAG052/BEADY EYE	-	V	75-3-5	-	-	673	-	-
1962 A CHI	2437925.49	1962 Sep 17 2346:18	Thor Agena B	-	350/1133	CORONA 51/9043	CORONA M-12	TAG053/BIG FLIGHT	-	V	75-3-4	-	-	676	-	-
1962 A PSI	2437925.87	1962 Sep 18 0853:08	Thor Delta	-	318/D012	Tiros 6	Tiros F2	-	-	CC	LC17A	-	-	776	-	-
1962 B ALP	2437936.75	1962 Sep 29 0605	Thor Agena B	-	341/6101 (TA1)	Alouette 1	Alouette 1	TAG054/BIG GAME	-	V	75-1-1	-	-	1040	-	-
1962 B BET	2437937.48	1962 Sep 29 2334:50	Thor Agena D	-	351/1154	CORONA 52/9045	CORONA M-13	TAG055/ARCTIC ZONE	-	V	75-1-2	-	-	388	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962 B GAM	2437940.42	1962 Oct 2 2211:30	Thor Delta A	-	345/D013	Explorer 14	EPE B	-	-	CC	LC17B	-	-	98859	-	-
1962 B EPS	2437947.27	1962 Oct 9 1835:39	Thor Agena B	-	352/1134	CORONA 53/9046A	ARGON 9	TAG056/CALL BOARD	-	V	75-3-4	-	-	472	-	-
1962-A171	2437953.89	1962 Oct 16 0914:38	Thor DSV-2E	-	156	BLUEGILL DOUBLE PRIME	-	BLUEGILL DOUBLE PRIME	-	JI	LE2	-	-	10	-	-
1962-S428	2437963.91	1962 Oct 26 0944:05	Thor DSV-2E	-	141	BLUEGILL TRIPLE PRIME	-	BLUEGILL TRIPLE PRIME	-	JI	LE1	-	-	500?	-	-
1962 B KAP	2437964.18	1962 Oct 26 1614:39	Thor Agena D	-	353/1401	CORONA 54/STARAD	CORONA R&D FTV 1401	TAG057/ANCHOR BUOY	-	V	75-1-2	-	-	5570	-	-
1962 B LAM	2437965.47	1962 Oct 27 2315:01	Thor Delta A	-	346/D014	Explorer 15	EPE C	-	-	CC	LC17B	-	-	17652	-	-
1962 B MU	2437968.84	1962 Oct 31 0808	Thor Ablestar	-	319/AB012	ANNA 1B	ANNA 1B	-	-	CC	LC17A	-	-	1197	-	-
1962-S453	2437970.00	1962 Nov 1 1154:48	Thor DSV-2E	-	226	KINGFISH	-	KINGFISH	-	JI	LE2	-	-	500?	-	-
1962 B OMI	2437974.42	1962 Nov 5 2204:32	Thor Agena B	-	356/1136	CORONA 55/9047	CORONA M-14	TAG058/BAIL OUT	-	V	75-3-4	-	-	407	-	-
1962 B RHO	2437993.42	1962 Nov 24 2200:54	Thor Agena B	-	367/1135	CORONA 56/9048	CORONA M-15	TAG059/GOLDEN RUSH	-	V	75-3-4	-	-	339	-	-
1962 B SIG	2438003.40	1962 Dec 4 2130:35	Thor Agena D	-	361/1155	CORONA 57/9049	CORONA M-16	TAG060/CALAMITY JANE	-	V	75-1-2	-	-	304	-	-
1962 B TAU	2438011.67	1962 Dec 13 0407	Thor Agena D	-	365/2351	POPPY 1/NRL Comp 2	POPPY 1 SV1	TAG061/CORN FIELD	-	V	75-1-1	-	-	2794	-	-
1962 B UPS	2438012.48	1962 Dec 13 2330:01	Thor Delta B	-	355/D015	Relay 1	Relay A	-	-	CC	LC17A	-	-	7459	-	-
1962 B PHI	2438013.39	1962 Dec 14 2126:07	Thor Agena D	-	368/1156	CORONA 58/9050	CORONA M-17	TAG062/BABY DOLL	-	V	75-3-5	-	-	391	-	-
1963-002	2438037.38	1963 Jan 7 2109:49	Thor Agena D	-	369/1157	CORONA 59/9051	CORONA M-18	TAG063/CANDY KISSES	-	V	75-1-1	-	-	395	-	-
1963-003	2438046.42	1963 Jan 16 2159	Thor Agena B	-	363/2313	OPS 0180	Ferret 3	TAG064/CIRCUS BOY	-	V	75-3-5	-	-	546	-	-
1963-004	2438074.73	1963 Feb 14 0535:08	Thor Delta B	-	358/D016	Syncom 1	Syncom 1	-	-	CC	LC17B	-	-	37015	-	-
1963-F02	2438089.41	1963 Feb 28 2148:30	Thor SLV-2A Agena D	-	354/1159	CORONA 60/9052	CORONA M-20	TAG065/FARM COUNTRY	-	V	75-3-5	-	-	43	-	-
1963-F03	2438107.38	1963 Mar 18 2113:01	Thor SLV-2A Agena D	-	360/1164	CORONA 61/LANYARD 1	LANYARD 1	TAG066/CAMP OUT	-	V	75-3-4	-	-	183?	-	-
1963-007	2438121.46	1963 Apr 1 2301:00	Thor Agena D	-	376/1160	CORONA 62/9053	CORONA M-19	TAG067/NICKEL STEEL	-	V	75-3-5	-	-	408	-	-
1963-009	2438122.58	1963 Apr 3 0200:02	Thor Delta B	-	357/D017	Explorer 17	AE-A	-	-	CC	LC17A	-	-	923	-	-
1963-F07	2438146.34	1963 Apr 26 2012:57	Thor Agena D	-	372/1411	CORONA 63/9055A	ARGON 12	TAG068/FALL HARVEST	-	V	75-1-1	-	-	618?	-	-
1963-013	2438156.98	1963 May 7 1138:03	Thor Delta B	-	366/D018	Telstar 2	Telstar 2	-	-	CC	LC17B	-	-	10818	-	-
1963-016	2438168.43	1963 May 18 2221:36	Thor SLV-2A Agena D	-	364/1165	CORONA 64/LANYARD 2	LANYARD 2	TAG069/GATE LATCH	-	V	75-3-5	-	-	507	-	-
1963-019	2438193.50	1963 Jun 12 2358:38	Thor SLV-2A Agena D	-	362/1161	CORONA 65/9054	CORONA M-21	TAG070/GREEN CASTLE	-	V	75-3-4	-	-	421	-	-
1963-021	2438196.10	1963 Jun 15 1429	Thor Agena D	-	378/2353	POPPY 2/NRL Comp 3	SURCAL	TAG071/BUSY FLY	-	V	75-1-1	-	-	921	-	-
1963-024	2438199.91	1963 Jun 19 0950:01	Thor Delta B	-	359/D019	Tiros 7	Tiros G	-	-	CC	LC17B	-	-	688	-	-
1963-025	2438207.53	1963 Jun 27 0037:26	Thor SLV-2A Agena D	-	381/1166	CORONA 66/9056	CORONA M-22	TAG072/CALICO MISS	-	V	75-1-2	-	-	4136	-	-
1963-027	2438210.44	1963 Jun 29 2230	Thor SLV-2A Agena B	-	380/2314	OPS 1440	Ferret 4	TAG073/BABY BLUE	-	V	75-3-5	-	-	530	-	-
1963-029	2438229.50	1963 Jul 19 0000:10	Thor Agena D	-	388/1412	CORONA 67/9057	CORONA M-23	TAG074/CHILI WILLIE	-	V	75-1-1	-	-	387	-	-
1963-031	2438237.11	1963 Jul 26 1433:00	Thor Delta B	-	370/D020	Syncom 2	Syncom 2	-	-	CC	LC17A	-	-	36873	-	-
1963-032	2438241.50	1963 Jul 31 0000:26	Thor SLV-2A Agena D	-	382/1167	CORONA 68/LANYARD 3	LANYARD 3	TAG075/BIG TALK	-	V	75-1-2	-	-	486	-	-
1963-034	2438266.52	1963 Aug 25 0029:58	Thor SLV-2A Agena D	-	377/1162	CORONA 69/1001	CORONA J-1	TAG076/GHOST DANCE	-	V	75-3-4	-	-	436	-	-
1963-035	2438271.35	1963 Aug 29 2031:04	Thor SLV-2 Agena D	-	394/1169	CORONA 70/9058A	ARGON 11	TAG077/PELICAN PETE	-	V	75-3-5	-	-	468	-	-
1963-M44	2438290.90	1963 Sep 18 0939	Thor DSV-2F	-	232	ASSET 1	-	-	-	CC	LC17B	-	-	56	-	-
1963-037	2438296.46	1963 Sep 23 2300:00	Thor SLV-2A Agena D	-	383/1163	CORONA 71/1002	CORONA J-2	TAG078/FELLOW KING	-	V	75-1-2	-	-	442	-	-
1963-038	2438301.35	1963 Sep 28 2022	Thor Ablestar	2	375/AB013	Transit VBN-1	Transit VBN-1	DUCK TAIL	-	V	75-1-1	-	-	1150	-	-
1963-042	2438332.39	1963 Oct 29 2119:04	Thor SLV-2A Agena D	-	386/1601	CORONA 72/9059A	ARGON 6	TAG079/MARK DOWN	-	V	75-3-4	-	-	585	-	-
1963-F14	2438343.35	1963 Nov 9 2027:54	Thor SLV-2 Agena D	-	400/1171	CORONA 73/9060	CORONA M-24	TAG080/JUMP SUIT	-	V	75-1-2	-	-	50?	-	-
1963-046	2438360.60	1963 Nov 27 0230:01	Thor Delta C	-	387/D021	Explorer 18	IMP A	-	-	CC	LC17B	-	-	150000	-	-
1963-048	2438361.39	1963 Nov 27 2115:40	Thor SLV-2 Agena D	-	406/1172	CORONA 74/9061	CORONA M-25	TAG081/DRY DUNE	-	PA	LC1-1	-	-	386	-	-
1963-049	2438369.41	1963 Dec 5 2151	Thor Ablestar	2	385/AB015	Transit VBN-2	Transit VBN-2	LIMIT LINE	-	V	75-1-1	-	-	1127	-	-
1963-054	2438384.90	1963 Dec 21 0930:00	Thor Delta B	-	371/D022	Tiros 8	Tiros H	-	-	CC	LC17B	-	-	929	-	-
1963-055	2438385.41	1963 Dec 21 2145:42	Thor SLV-2A Agena D	-	398/1168	CORONA 75/9062	CORONA M-26	TAG082/WATER SPOUT	-	V	75-1-2	-	-	397	-	-
1964-001	2438406.34	1964 Jan 11 2007	Thor SLV-2A Agena D	-	390/2354	POPPY 3/NRL Comp 4	POPPY 3/HAYLOFT	TAG083/EMPTY POCKET	-	V	75-3-5	-	-	950	-	-
1964-002	2438413.96	1964 Jan 19 1059:54	Thor SLV-2 Agena D	-	384/2303	OPS 3367A/3367B	P35-6	TAG084/BENCH TOP	-	V	75-1-2	-	-	850	-	-
1964-003	2438416.39	1964 Jan 21 2114:59	Thor Delta B	-	373/D023	Relay 2	Relay B	-	-	CC	LC17B	-	-	7644	-	-
1964-004	2438420.08	1964 Jan 25 1359:04	Thor SLV-2 Agena B	-	397/6301 (TA2)	Echo 2	Echo C	TAG085/RAMS HORN	-	V	75-1-1	-	-	1355	-	-
1964-S98	2438439.82	1964 Feb 14 0747	Thor DSV-2J	-	299/20002	AFP-437 Demo	-	-	-	JI	LE1	-	-	1000	-	-
1964-008	2438441.40	1964 Feb 15 2138:23	Thor SLV-2A Agena D	-	389/1174	CORONA 76/1004	CORONA J-5	TAG086/GARDEN PARTY	-	V	75-3-4	-	-	448	-	-
1964-011	2438453.64	1964 Feb 28 0320	Thor SLV-2A Agena D	-	402/2316	OPS 3722	Ferret 5	TAG087/FIRST QUARTER	-	V	75-3-5	-	-	521	-	-
1964-S127	2438455.78	1964 Mar 1 0640	Thor DSV-2J	-	209/20006	AFP-437 Demo	-	-	-	JI	LE1	-	-	674	-	-
1964-F02	2438473.97	1964 Mar 19 1113:41	Thor Delta B	-	391/D024	BE-A	BE-A	-	-	CC	LC17A	-	-	1200	-	-
1964-M07	2438479.01	1964 Mar 24 1215	Thor DSV-2G	-	240	ASSET 2	-	-	-	CC	LC17B	-	-	55	-	-
1964-F04	2438479.43	1964 Mar 24 2222:48	Thor SLV-2A Agena D	-	396/1175	CORONA 77/1003	CORONA J-6	TAG088//HEALTH FARM	-	PA	LC1-1	-	-	183?	-	-
1964-S220	2438506.76	1964 Apr 21 0615	Thor DSV-2J	-	290/20003	AFP-437 CTL	-	-	-	JI	LE2	-	-	778	-	-
1964-U03	2438507.28	1964 Apr 21 1850	Thor Ablestar	2	379/AB014	Transit VBN-3	Transit VBN-3	USEFUL TOOL	-	V	75-1-1	-	-	500?	-	-
1964-022	2438513.47	1964 Apr 27 2323:43	Thor SLV-2A Agena D	-	395/1604	CORONA 78/1005	CORONA J-8	TAG089/NICE BIRD	-	V	75-3-4	-	-	450	-	-
1964-S269	2438543.81	1964 May 28 0732	Thor DSV-2J	-	227/20007	AFP-437 CTL	-	-	-	JI	LE2	-	-	932	-	-
1964-027	2438551.46	1964 Jun 4 2259	Thor SLV-2A Agena D	-	403/1176	CORONA 79/1006	CORONA J-9	TAG090/KICK BALL	-	PA	LC1-1	-	-	457	-	-
1964-030	2438560.16	1964 Jun 13 1547	Thor SLV-2A Agena D	-	408/1606	CORONA 80/9063A	ARGON 21	TAG091/BEAGLE HOUND	-	V	75-1-2	-	-	386	-	-
1964-031	2438564.71	1964 Jun 18 0456:08	Thor SLV-2 Agena D	-	407/2304	OPS 4467A/4467B	P35-8	TAG092/INDIO IKE?	-	V	75-3-4	-	-	845	-	-
1964-032	2438566.47	1964 Jun 19 2318:07	Thor SLV-2A Agena D	-	410/1609	CORONA 81/1007	CORONA J-7	TAG093/GREEN DOOR	-	V	75-1-1	-	-	461	-	-
1964-035	2438579.50	1964 Jul 2 2359:56	Thor SLV-2A Agena D	-	409/2315	OPS 3395	Ferret 6	TAG094/FIRING ORDER	-	V	75-3-5	-	-	533	-	-
1964-037	2438587.47	1964 Jul 10 2314:04	Thor SLV-2A Agena D	-	404/1177	CORONA 82/1008	CORONA J-10	TAG095/OLD HAT	-	PA	LC1-1	-	-	464	-	-
1964-M19	2438599.15	1964 Jul 22 1539	Thor DSV-2G	-	250	ASSET 3	-	-	-	CC	LC17B	-	-	71	-	-
1964-043	2438613.47	1964 Aug 5 2315:35	Thor SLV-2A Agena D	-	413/1605	CORONA 83/1009	CORONA J-12	TAG096/LONG LOOP	-	V	75-3-4	-	-	432	-	-
1964-047	2438627.01	1964 Aug 19 1215:02	Thor Delta D	-	417/D025	Syncom 3	Syncom C	-	-	CC	LC17A	-	-	38499	-	-
1964-048	2438629.16	1964 Aug 21 1545	Thor SLV-2A Agena D	-	412/1603	CORONA 84/9064A	ARGON 22	TAG097/KILO KATE	-	V	75-1-2	-	-	371	-	-
1964-052	2438635.83	1964 Aug 28 0756:57	Thor SLV-2 Agena B	-	399/6201 (TA3)	Nimbus 1	Nimbus A	TAG098/HULU MOON	-	V	75-1-1	-	-	938	-	-
1964-056	2438653.45	1964 Sep 14 2253:43	Thor SLV-2A Agena D	-	405/1178	CORONA 85/1010	CORONA J-11	TAG099/QUIT CLAIM	-	VS	PALC1-1	-	-	462	-	-
1964-060	2438672.66	1964 Oct 4 0345:00	Thor Delta C	-	392/D026	Explorer 21	IMP B	-	-	CC	LC17A	-	-	95569	-	-
1964-061	2438674.41	1964 Oct 5 2150:14	Thor SLV-2A Agena D	-	421/1170	CORONA 86/1011	CORONA J-3	TAG100/SOLID PACK	-	V	75-3-4	-	-	437	-	-
1964-063	2438675.21	1964 Oct 6 1704:21	Thor Ablestar	2	423/AB016	NNS O-1	NNS O-1	AIR ALARM	-	V	75-1-2	-	-	1089	-	-
1964-067	2438686.42	1964 Oct 17 2202:23	Thor SLV-2A Agena D	-	418/1179	CORONA 87/1012	CORONA J-13	TAG101/MOOSE HORN	-	VS	PALC1-1	-	-	426	-	-
1964-M25	2438697.65	1964 Oct 29 0335	Thor DSV-2F	-	260	ASSET 4	-	-	-	CC	LC17B	-	-	50	-	-
1964-071	2438702.40	1964 Nov 2 2130:20	Thor SLV-2A Agena D	-	420/1173	CORONA 88/1013	CORONA J-15	TAG102/BROWN MOOSE	-	V	75-3-4	-	-	444	-	-
1964-072	2438703.59	1964 Nov 4 0212:11	Thor SLV-2A Agena D	-	430/2317	OPS 3062	Ferret 7	TAG103/ECHO HOLE	-	V	75-3-5	-	-	526	-	-
1964-S625	2438715.79	1964 Nov 16 0657	Thor DSV-2J	-	236	AFP-437 CTL	-	-	-	JI	LE1?	-	-	1148	-	-
1964-075	2438718.36	1964 Nov 18 2035:54	Thor SLV-2A Agena D	-	416/1180	CORONA 89/1014	CORONA J-16	TAG104/VERBAL VENTURE	-	V	75-1-1	-	-	344	-	-
1964-M29	2438738.58	1964 Dec 9 0200	Thor DSV-2F	-	247	ASSET 5	-	-	-	CC	LC17B	-	-	50?	-	-
1964-083	2438742.51	1964 Dec 13 0008:10	Thor Ablestar	2	427/AB017	NNS O-2	APL SN-43	ASTRO ANNIE	-	V	75-1-2	-	-	1089	-	-
1964-085	2438749.38	1964 Dec 19 2110:16	Thor SLV-2A Agena D	-	424/1607	CORONA 90/1015	CORONA J-17	TAG105/UTILITY TOOL	-	V	75-3-4	-	-	419	-	-
1964-086	2438750.88	1964 Dec 21 0900:03	Thor Delta C	-	393/D027	Explorer 26	EPE-D	-	-	CC	LC17A	-	-	26278	-	-
1964-087	2438751.30	1964 Dec 21 1908:56	Thor SLV-2A Agena D	-	425/2355	QUILL	QUILL	TAG106/BARN OWL	-	V	75-1-1	-	-	277	-	-
1965-002	2438776.38	1965 Jan 15 2100:44	Thor SLV-2A Agena D	-	414/1608	CORONA 91/1016	CORONA J-18	TAG107/BUCKET FACTORY	-	V	75-3-5	-	-	429	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-003	2438779.71	1965 Jan 19 0503:42	Thor MG-18	-	224	DAPP/OPS 7040	DAPP 10	ASTRAL LAMP	-	V	4300B6	-	-	853	-	-
1965-004	2438782.83	1965 Jan 22 0752:00	Thor Delta C	-	374/D028	Tiros 9	Tiros I	-	-	CC	LC17A	-	-	2666	-	-
1965-007	2438795.19	1965 Feb 3 1636:00	Thor Delta C	-	411/D029	OSO 2	OSO B2	-	-	CC	LC17B	-	-	638	-	-
1965-M03	2438815.11	1965 Feb 23 1436	Thor DSV-2G	-	248	ASSET 6	-	-	-	CC	LC17B	-	-	70?	-	-
1965-013	2438817.41	1965 Feb 25 2144:55	Thor SLV-2A Agena D	-	432/1611	CORONA 92/1017	CORONA J-14	TAG108/BOAT CAMP	-	VS	PALC1-1	-	-	373	-	-
1965-016	2438829.27	1965 Mar 9 1829:47	Thor SLV-2 Agena D	-	419/2701	POPPY 4/NRL Comp 5	Secor Type II S/N 1	TAG109/DEUCE SPOT	-	V	75-1-2	-	-	947	-	-
1965-017	2438831.07	1965 Mar 11 1339:59	Thor Ablestar	2	440/AB018	NNS O-3	Secor Type II S/N 3	BUSH CATTLE	-	V	75-1-1	-	-	1044	-	-
1965-021	2438837.70	1965 Mar 18 0443:46	Thor MG-18	-	306	DAPP/OPS 7353	DAPP 11	ASTRAL BODY	-	V	4300B6	-	-	863	-	-
1965-026	2438845.38	1965 Mar 25 2111:17	Thor SLV-2A Agena D	-	429/1612	CORONA 93/1018	CORONA J-19	TAG110/PAPER ROUTE	-	V	75-3-4	-	-	381	-	-
1965-S216	2438855.81	1965 Apr 5 0720	Thor DSV-2J	-	155	AFP-437 CTL	-	-	-	JI	LE2	-	-	826	-	-
1965-028	2438857.49	1965 Apr 6 2347:50	Thor Delta D	-	426/D030	Early Bird	INTELSAT I	-	-	CC	LC17A	-	-	37102	-	-
1965-033	2438880.41	1965 Apr 29 2144:56	Thor SLV-2A Agena D	-	437/1614	CORONA 94/1019	CORONA J-4	TAG111/MUSK OX	-	VS	PALC1-1	-	-	1162	-	-
1965-037	2438899.25	1965 May 18 1802:18	Thor SLV-2A Agena D	-	438/1615	CORONA 95/1021	CORONA J-21	TAG112/IVY VINE	-	V	75-3-4	-	-	329	-	-
1965-038	2438901.19	1965 May 20 1630:53	Thor Burner 1	-	282	DAPP/OPS 8386	DAPP 12 (Block 3)	ROYAL EAGLE	-	V	4300B6	-	-	1065	-	-
1965-042	2438910.00	1965 May 29 1200:00	Thor Delta C	-	441/D031	Explorer 28	IMP C	-	-	CC	LC17B	-	-	150000	-	-
1965-045	2438921.42	1965 Jun 9 2158:16	Thor SLV-2A Agena D	-	444/1613	CORONA 96/1020	CORONA J-20	TAG113/FEMALE LOGIC	-	V	75-3-5	-	-	353	-	-
1965-048	2438936.44	1965 Jun 24 2235:29	Thor Ablestar	2	447/AB019	NNS O-4	NNS O-4	PARADISE TREE	-	V	75-1-1	-	-	1144	-	-
1965-051	2438943.67	1965 Jul 2 0407:00	Thor Delta C	-	415/D032	Tiros 10	Tiros OT1	-	-	CC	LC17B	-	-	884	-	-
1965-055	2438958.75	1965 Jul 17 0555:01	Thor SLV-2A Agena D	-	422/2702	OPS 8411	Ferret 8	TAG114/LOST NOVEMBER	-	V	75-1-2	-	-	522	-	-
1965-057	2438961.42	1965 Jul 19 2201:12	Thor SLV-2A Agena D	-	446/1617	CORONA 97/1022	CORONA J-22	TAG115/ROCKY RIVER	-	VS	PALC1-1	-	-	472	-	-
1965-065	2438986.42	1965 Aug 13 2211:24	Thor Ablestar	2	455/AB020	NNS O-5	Dodecapole 2	BEAUTY SHOP	-	V	75-1-1	-	-	1200	-	-
1965-067	2438990.37	1965 Aug 17 2059:57	Thor SLV-2A Agena D	-	449/1618	CORONA 98/1023	CORONA J-23	TAG116/LIGHTS OUT	-	VS	PALC1-1	-	-	427	-	-
1965-F09	2438998.14	1965 Aug 25 1517:00	Thor Delta C	-	434/D033	OSO C	OSO C	-	-	CC	LC17B	-	-	562	-	-
1965-F10	2439006.33	1965 Sep 2 2000:16	Thor SLV-2 Agena D	-	401/1602	CORONA 99/R&D	CORONA R&D FTV 1602	TAG117/WORD SCRAMBLE	-	V	75-3-5	-	-	11	-	-
1965-072	2439013.70	1965 Sep 10 0441:38	Thor Burner 1	-	213	DAPP/OPS 8068	DAPP 13	VICTORIA CROSS	-	V	4300B6	-	-	1184	-	-
1965-074	2439026.40	1965 Sep 22 2131:14	Thor SLV-2A Agena D	-	458/1619	CORONA 100/1024	CORONA J-24	TAG118/NICKLE SILVER	-	VS	PALC1-1	-	-	362	-	-
1965-079	2439039.24	1965 Oct 5 1745:57	Thor SLV-2A Agena D	-	433/1616	CORONA 101/1025	CORONA JX-28	TAG119/UNION LEADER	-	V	75-3-5	-	-	323	-	-
1965-081	2439048.05	1965 Oct 14 1311:55	Thor SLV-2A Agena D	-	435/6801 (TA4)	OGO 2	OGO C	TAG120/OLD ABBEY	-	V	75-1-1	-	-	1512	-	-
1965-086	2439062.39	1965 Oct 28 2117:12	Thor SLV-2A Agena D	-	439/1620	CORONA 102/1026	CORONA J-25	TAG121/HIGH JOURNEY	-	VS	PALC1-1	-	-	602	-	-
1965-089	2439071.28	1965 Nov 6 1838:43	Thor Delta E	-	457/D034	Explorer 29	GEOS A	-	-	CC	LC17A	-	-	2330	-	-
1965-098	2439093.70	1965 Nov 29 0448:47	Thor SLV-2 Agena B	-	453/6102 (TA5)	ISIS-X	Alouette 2	TAG122/RE HEAT	-	V	75-1-1	-	-	2987	-	-
1965-S667	2439102.60	1965 Dec 8 0228	Thor DSV-2J	-	188/20011	AFP-437(AP)	-	-	-	JI	LE2	-	-	487	-	-
1965-102	2439104.38	1965 Dec 9 2110:19	Thor SLV-2A Agena D	-	448/1621	CORONA 103/1027	CORONA JX-27	TAG123/LUCKY FELLOW	-	V	75-3-5	-	-	437	-	-
1965-105	2439110.81	1965 Dec 16 0731:21	Thor Delta E	-	460/D035	Pioneer 6	Pioneer A	-	-	CC	LC17A	-	-	150000	-	-
1965-110	2439119.38	1965 Dec 24 2106:15	Thor SLV-2A Agena D	-	451/1610	CORONA 104/1028	CORONA J-26	TAG124/TALL STORY	-	V	75-3-4	-	-	433	-	-
1966-F01	2439132.70	1966 Jan 7 0448:23	Thor Burner 1	-	251	DAPP/OPS 2394	DAPP 14	PERSIAN LAMB	-	V	4300B6	-	-	850?	-	-
1966-S71	2439144.26	1966 Jan 18 1811	Thor DSV-2J	-	242	AFP-437(AP)	-	-	-	JI	LE2	-	-	459	-	-
1966-007	2439159.40	1966 Feb 2 2132:13	Thor SLV-2A Agena D	-	450/1623	CORONA 105/1029	CORONA J-27	TAG125/SEA LEVEL	-	VS	PALC1-1	-	-	426	-	-
1966-008	2439159.82	1966 Feb 3 0741:23	Thor Delta C	-	445/D036	ESSA 1	Tiros OT3	-	-	CC	LC17A	-	-	953	-	-
1966-009	2439166.32	1966 Feb 9 1945:01	Thor SLV-2A Agena D	-	428/2703	OPS 1439	Ferret 9	TAG126/IRON BACK	-	V	75-1-2	-	-	514	-	-
1966-016	2439185.08	1966 Feb 28 1358:00	Thor Delta E	-	461/D037	ESSA 2	Tiros OT2	-	-	CC	LC17B	-	-	1567	-	-
1966-018	2439194.42	1966 Mar 9 2202:03	Thor SLV-2A Agena D	-	452/1622	CORONA 106/1030	CORONA J-29	TAG127/EASY CHAIR	-	V	75-3-4	-	-	441	-	-
1966-S161	2439196.53	1966 Mar 12 0042	Thor DSV-2J	-	196	AFP-437(AP)	-	-	-	JI	LE2	-	-	472	-	-
1966-026	2439215.74	1966 Mar 31 0541:04	Thor Burner 1	-	147	DAPP/OPS 0340	DAPP 15	RESORT HOTEL	-	V	4300B6	-	-	1116	-	-
1966-029	2439223.42	1966 Apr 7 2202:55	Thor SLV-2A Agena D	-	474/1627	CORONA 107/1031	CORONA J-30	TAG128/GAPING WOUND	-	VS	PALC1-1	-	-	313	-	-
1966-F05	2439249.31	1966 May 3 1925:25	Thor SLV-2A Agena D	-	465/1625	CORONA 108/1032	CORONA J-28	TAG129/CARGO NET	-	V	75-3-5	-	-	180?	-	-
1966-040	2439260.83	1966 May 15 0755:34	Thor SLV-2A Agena B	-	456/6202 (TA6)	Nimbus 2	Nimbus C	TAG130/BAD ULCER	-	V	75-1-1	-	-	1219	-	-
1966-042	2439269.58	1966 May 24 0200:33	Thor SLV-2A Agena D	-	469/1630	CORONA 109/1033	CORONA J-33	TAG131/SHORT TON	-	VS	PALC1-1	-	-	270	-	-
1966-044	2439271.08	1966 May 25 1400:00	Thor Delta C1	-	436/D038	Explorer 32	AE-B	-	-	CC	LC17B	-	-	2828	-	-
1966-055	2439298.40	1966 Jun 21 2131:30	Thor SLV-2A Agena D	-	466/1626	CORONA 110/1034	CORONA J-31	TAG132/GAME LEG	-	V	75-3-5	-	-	367	-	-
1966-056	2439300.51	1966 Jun 24 0012:02	Thor SLV-2A Agena D	-	473/6311 (TA7)	Pageos	Pageos A	TAG133/CLOTH COAT	-	V	75-1-1	-	-	7627	-	-
1966-058	2439308.17	1966 Jul 1 1602:25	Thor Delta E1	-	467/D039	Explorer 33	AIMP D	-	-	CC	LC17A	-	-	150000	-	-
1966-S359	2439309.37	1966 Jul 2 2053	Thor DSV-2J	-	289	AFP-437(AP)	-	-	-	JI	LE2	-	-	802	-	-
1966-072	2439347.37	1966 Aug 9 2046:03	Thorad SLV-2G Agena D	-	506/1631	CORONA 111/1036	CORONA J-32	TAG134/CURLY TOP	-	V	SLC1W	-	-	296	-	-
1966-075	2439355.14	1966 Aug 17 1520:17	Thor Delta E1	-	462/D040	Pioneer 7	Pioneer B	-	-	CC	LC17A	-	-	150000	-	-
1966-082	2439384.69	1966 Sep 16 0436:09	Thor Burner 2	-	167/BII-1	DAPP 1416	DAPP 1416	IRISH DUKE	-	V	4300B6	-	-	903	-	-
1966-085	2439389.38	1966 Sep 20 2114:05	Thor SLV-2A Agena D	-	477/1628	CORONA 112/1035	CORONA J-36	TAG135/BIG BADGE	-	VS	SLC3W	-	-	442	-	-
1966-087	2439400.94	1966 Oct 2 1039:03	Thor Delta E	-	463/D041	ESSA 3	TOS A	BUSY MALLET	-	V	SLC2E	-	-	1562	-	-
1966-096	2439425.46	1966 Oct 26 2305:00	Thor Delta E1	-	464/D042	Intelsat II F-1	INTELSAT II F-1	-	-	CC	LC17B	-	-	37656	-	-
1966-102	2439438.33	1966 Nov 8 1953:02	Thorad SLV-2G Agena D	-	507/1632	CORONA 113/1037	CORONA J-38	TAG136/BUSY MEETING	-	V	SLC1W	-	-	325	-	-
1966-114	2439474.31	1966 Dec 14 1920:03	Thor Delta G	-	471/D043	Biosatellite 1	Biosatellite A Adapter	-	-	CC	LC17A	-	-	316	-	-
1966-118	2439489.00	1966 Dec 29 1200:06	Thor SLV-2A Agena D	-	459/2731	OPS 1584	MULTIGROUP 1	TAG137/FRONT ROW	-	V	SLC2W	-	-	498	-	-
1967-001	2439501.95	1967 Jan 11 1055:00	Thor Delta E1	-	468/D044	Intelsat II F-2	INTELSAT II F-2	-	-	CC	LC17B	-	-	36828	-	-
1967-002	2439505.39	1967 Jan 14 2128:21	Thor SLV-2A Agena D	-	495/1629	CORONA 114/1038	CORONA J-34	TAG138/LONG ROAD	-	VS	SLC3W	-	-	381	-	-
1967-006	2439517.23	1967 Jan 26 1731	Thor Delta E	-	472/D045	ESSA 4	TOS B	BUSY PENNY	-	V	SLC2E	-	-	1465	-	-
1967-010	2439529.83	1967 Feb 8 0800:52	Thor Burner 2	-	169/BII-2	DAPP 2418	DAPP 2418	ARROW POINT	-	V	4300B6	-	-	873	-	-
1967-015	2439544.42	1967 Feb 22 2202:15	Thor SLV-2A Agena D	-	493/1635	CORONA 115/1039	CORONA J-39	TAG139/BUSY PAWNSHOP	-	VS	SLC3W	-	-	382	-	-
1967-020	2439558.17	1967 Mar 8 1612:00	Thor Delta C	-	431/D046	OSO 3	OSO E1	-	-	CC	LC17A	-	-	566	-	-
1967-026	2439572.56	1967 Mar 23 0130:12	Thor Delta E1	-	470/D047	Intelsat II F-3	INTELSAT II F-3	-	-	CC	LC17B	-	-	37830	-	-
1967-029	2439580.29	1967 Mar 30 1854:23	Thor SLV-2A Agena D	-	501/1636	CORONA 116/1040	CORONA J-35	TAG140/GIANT BANANA	-	VS	SLC3W	-	-	393	-	-
1967-S186	2439580.78	1967 Mar 31 0644	Thor DSV-2J	-	168	AFP-437 CEL	-	-	-	JI	LE1	-	-	484	-	-
1967-036	2439600.97	1967 Apr 20 1121:10	Thor Delta E	-	484/D048	ESSA 5	TOS C	BUCKLE PAINTER	-	V	SLC2E	-	-	1486	-	-
1967-043	2439620.41	1967 May 9 2150:42	Thorad SLV-2G Agena D	-	508/1634	CORONA 117/1041	CORONA J-40	TAG141/BUSY BANKER	-	V	SLC1E	-	-	809	-	-
1967-051	2439635.09	1967 May 24 1405:54	Thor Delta E1	-	486/D049	Explorer 34	IMP F	-	-	V	SLC2E	-	-	150000	-	-
1967-053	2439641.90	1967 May 31 0930:48	Thor SLV-2 Agena D	-	443/2704	POPPY 5/NRL Comp 6	NRL PL160	TAG142/COMIC STRIP	-	V	SLC2W	-	-	937	-	-
1967-062	2439658.40	1967 Jun 16 2135:22	Thorad SLV-2G Agena D	-	509/1633	CORONA 118/1042	CORONA J-37	TAG143	-	V	SLC1W	-	-	518	-	-
1967-065	2439671.38	1967 Jun 29 2101:44	Thor Burner 2	-	171/BII-3	P67-1	Secor Type II S/N 10	DEER FOOT	-	V	LE-6	-	-	3992	-	-
1967-070	2439691.10	1967 Jul 19 1419:02	Thor Delta E1	-	488/D050	Explorer 35	AIMP E	-	-	CC	LC17B	-	-	150000	-	-
1967-071	2439696.66	1967 Jul 25 0348:10	Thor SLV-2A Agena D	2	496/2732	OPS 1879	MULTIGROUP 2	TAG144	-	V	SLC2W	-	-	606	-	-
1967-073	2439700.10	1967 Jul 28 1421:07	Thor SLV-2A Agena D	-	478/6802 (TA8)	OGO 4	OGO D	TAG145	-	V	SLC2E	-	-	899	-	-
1967-076	2439710.41	1967 Aug 7 2144	Thorad SLV-2G Agena D	-	510/1637	CORONA 119/1043	CORONA J-42	TAG146	-	V	SLC1E	-	-	362	-	-
1967-080	2439725.70	1967 Aug 23 0441:04	Thor Burner 2	-	266/BII-4	DAPP 3419	DAPP 3419	-	-	V	LE-6	-	-	895	-	-
1967-083	2439741.42	1967 Sep 7 2204:26	Thor Delta G	-	475/D051	Biosatellite 2	Biosatellite B Adapter	-	-	CC	LC17B	-	-	450	-	-
1967-087	2439749.32	1967 Sep 15 1941:15	Thorad SLV-2G Agena D	-	512/1641	CORONA 120/1101	CORONA CR-1	TAG147	-	V	SLC1W	-	-	406	-	-
1967-094	2439761.53	1967 Sep 28 0045:00	Thor Delta E1	-	442/D052	Intelsat II F-4	INTELSAT II F-4	-	-	CC	LC17B	-	-	37053	-	-
1967-096	2439774.83	1967 Oct 11 0757:56	Thor Burner 2	-	268/BII-5	DAPP 4417	DAPP 4417	-	-	V	LE-6	-	-	862	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-100	2439782.17	1967 Oct 18 1558:00	Thor Delta C1	-	490/D053	OSO 4	OSO D	-	-	CC	LC17B	-	-	573	-	-
1967-109	2439797.40	1967 Nov 2 2131:19	Thorad SLV-2G Agena D	-	513/1639	CORONA 121/1044	CORONA J-41	TAG148	-	V	SLC1E	-	-	525	-	-
1967-114	2439805.25	1967 Nov 10 1753:08	Thor Delta E1	-	480/D054	ESSA 6	TOS D	-	-	V	SLC2E	-	-	1499	-	-
1967-122	2439834.43	1967 Dec 9 2225:41	Thorad SLV-2G Agena D	-	514/1642	CORONA 122/1102	CORONA CR-2	TAG149	-	V	SLC1W	-	-	251	-	-
1967-123	2439838.09	1967 Dec 13 1408:00	Thor Delta E1	-	489/D055	Pioneer 8	Pioneer C	-	-	CC	LC17B	-	-	150000	-	-
1968-002	2439867.18	1968 Jan 11 1616:00	Thor Delta E1	-	454/D056	Explorer 36	Geos B	-	-	V	SLC2E	-	-	1587	-	-
1968-004	2439872.92	1968 Jan 17 1012	Thor SLV-2A Agena D	2	498/2733	OPS 1965	MULTIGROUP 3	TAG150	-	V	SLC2W	-	-	545	-	-
1968-008	2439880.43	1968 Jan 24 2226	Thorad SLV-2G Agena D	-	516/1640	CORONA 123/1045	CORONA J-45	TAG151	-	V	SLC1E	-	-	543	-	-
1968-020	2439930.42	1968 Mar 14 2200:14	Thorad SLV-2G Agena D	-	518/1638	CORONA 124/1046	CORONA J-48	TAG152	-	V	SLC1E	-	-	522	-	-
1968-039	2439978.40	1968 May 1 2131	Thorad SLV-2G Agena D	-	511/1643	CORONA 125/1103	CORONA CR-3	TAG153	-	VS	SLC3W	-	-	281	-	-
1968-S318	2439990.80	1968 May 14 0705	Thor DSV-2J	-	205	AFP-437 CEL	-	-	-	JI	LE1	-	-	823	-	-
1968-F04	2439994.85	1968 May 18 0823	Thorad SLV-2G Agena D	-	520/6221 (TA9)	Nimbus B	Nimbus B	TAG154	-	V	SLC2E	-	-	20?	-	-
1968-042	2439999.69	1968 May 23 0438:12	Thor Burner 2	-	277/BII-6	DAPP 5420	DAPP 5420	-	-	V	SLC10W	-	-	904	-	-
1968-052	2440028.41	1968 Jun 20 2146:05	Thorad SLV-2G Agena D	-	517/1645	CORONA 126/1047	CORONA J-47	TAG155	-	V	SLC1E	-	-	518	-	-
1968-055	2440042.23	1968 Jul 4 1726:50	Thor Delta J	-	476/D057	Explorer 38	RAE A	-	-	V	SLC2E	-	-	5936	-	-
1968-065	2440076.40	1968 Aug 7 2136:55	Thorad SLV-2G Agena D	?	522/1644	CORONA 127/1104	CORONA CR-4	TAG156	-	VS	SLC3W	-	-	268	-	-
1968-069	2440084.98	1968 Aug 16 1124:33	Thor Delta N	-	528/D058	ESSA 7	TOS E	-	-	V	SLC2E	-	-	1565	-	-
1968-078	2440118.40	1968 Sep 18 2132	Thorad SLV-2G Agena D	?	524/1647	CORONA 128/1048	CORONA J-49	TAG157	-	V	SLC1E	-	-	524	-	-
1968-F08	2440118.51	1968 Sep 19 0009:00	Thor Delta M	-	529/D059	Intelsat III F-1	INTELSAT III F-1	-	-	CC	LC17A	-	-	15?	-	-
1968-086	2440134.97	1968 Oct 5 1116?	Thorad SLV-2G Agena D	?	521/2734	OPS 0964	STRAWMAN 1	TAG158	-	V	SLC1W	-	-	509	-	-
1968-092	2440152.69	1968 Oct 23 0434:03	Thor Burner 2	-	173/BII-8	DAPP 6422	DAPP 6422	-	-	V	SLC10W	-	-	858	-	-
1968-098	2440164.40	1968 Nov 3 2130	Thorad SLV-2G Agena D	?	515/1646	CORONA 129/1105	CORONA CR-5	TAG159	-	VS	SLC3W	-	-	294	-	-
1968-100	2440168.91	1968 Nov 8 0946:29	Thor Delta E1	-	479/D060	Pioneer 9	Pioneer D	-	-	CC	LC17B	-	-	150000	-	-
1968-S596	2440180.80	1968 Nov 20 0708	Thor DSV-2J	-	252	AFP-437 CEL	-	-	-	JI	LE1	-	-	1158	-	-
1968-109	2440196.29	1968 Dec 5 1855:00	Thor Delta E1	-	481/D061	HEOS 1	HEOS A1	-	-	CC	LC17B	-	-	150000	-	-
1968-112	2440203.43	1968 Dec 12 2222	Thorad SLV-2G Agena D	-	527/1648	CORONA 130/1049	CORONA J-50	TAG160	-	VS	SLC3W	-	-	1513	-	-
1968-114	2440206.22	1968 Dec 15 1721:04	Thor Delta N	-	532/D062	ESSA 8	TOS F	-	-	V	SLC2E	-	-	1576	-	-
1968-116	2440209.52	1968 Dec 19 0032:00	Thor Delta M	-	536/D063	Intelsat III F-2	INTELSAT III F-2	-	-	CC	LC17A	-	-	39351	-	-
1969-006	2440244.20	1969 Jan 22 1648:00	Thor Delta C1	-	487/D064	OSO 5	OSO F	-	-	CC	LC17B	-	-	563	-	-
1969-009	2440251.78	1969 Jan 30 0646	Thor Delta E1	-	485/D065	Isis 1	Isis A	-	-	V	SLC2E	-	-	3539	-	-
1969-010	2440258.42	1969 Feb 5 2159:54	Thorad SLV-2G Agena D	?	519/1650	CORONA 131/1106	CORONA CR-6	TAG161	-	VS	SLC3W	-	-	1461	-	-
1969-011	2440258.53	1969 Feb 6 0039:00	Thor Delta M	-	530/D066	Intelsat III F-3	INTELSAT III F-3	-	-	CC	LC17A	-	-	41558	-	-
1969-016	2440278.82	1969 Feb 26 0747:01	Thor Delta E1	-	483/D067	ESSA 9	TOS G	-	-	CC	LC17B	-	-	1507	-	-
1969-026	2440300.40	1969 Mar 19 2138	Thorad SLV-2G Agena D	-	541/1651	CORONA 132/1050	CORONA J-43	TAG162	-	VS	SLC3W	-	-	513	-	-
1969-037	2440325.83	1969 Apr 14 0754:03	Thorad SLV-2G Agena D	?	543/6222 (TA10)	Nimbus 3	Nimbus B2	TAG163	-	V	SLC2E	-	-	1139	-	-
1969-041	2440343.57	1969 May 2 0146:58	Thorad SLV-2G Agena D	?	544/1649	CORONA 133/1051	CORONA J-44	TAG164	-	VS	SLC3W	-	-	470	-	-
1969-045	2440363.58	1969 May 22 0200:00	Thor Delta M	-	533/D068	Intelsat III F-4	INTELSAT III F-4	-	-	CC	LC17A	-	-	39752	-	-
1969-051	2440378.11	1969 Jun 5 1442:45	Thorad SLV-2H Agena D	-	526/6803 (TA11)	OGO 6	OGO F	TAG165	-	V	SLC2E	-	-	1088	-	-
1969-053	2440393.87	1969 Jun 21 0847:58	Thor Delta E1	-	482/D069	Explorer 41	IMP G	-	-	V	SLC2W	-	-	150000	-	-
1969-056	2440401.64	1969 Jun 29 0315:59	Thor Delta N	-	539/D070	Biosatellite 3	Biosatellite D Adapter	-	-	CC	LC17A	-	-	545	-	-
1969-062	2440425.69	1969 Jul 23 0439:55	Thor Burner 2	-	279/BII-7	DAPP 7421	DAPP 7421	-	-	V	SLC10W	-	-	872	-	-
1969-063	2440426.56	1969 Jul 24 0130:58	Thorad SLV-2H Agena D	?	545/1652	CORONA 134/1107	CORONA CR-7	TAG166	-	VS	SLC3W	-	-	336	-	-
1969-064	2440428.59	1969 Jul 26 0206:00	Thor Delta M	-	547/D071	Intelsat III F-5	INTELSAT III F-5	-	-	CC	LC17A	-	-	5444	-	-
1969-065	2440433.93	1969 Jul 31 1019	Thorad SLV-2G Agena D	?	523/2735	OPS 8285	STRAWMAN 2	TAG167	-	V	SLC1W	-	-	540	-	-
1969-068	2440442.83	1969 Aug 9 0752:00	Thor Delta N	-	548/D072	OSO 6	OSO G	-	-	CC	LC17A	-	-	556	-	-
1969-F12	2440461.42	1969 Aug 27 2159:00	Thor Delta L	-	540/D073	Pioneer E	TETR C	-	-	CC	LC17A	-	-	100?	-	-
1969-079	2440487.38	1969 Sep 22 2111:02	Thorad SLV-2G Agena D	-	531/1653	CORONA 135/1052	CORONA J-46	TAG168	-	VS	SLC3W	-	-	497	-	-
1969-082	2440495.07	1969 Sep 30 1340	Thorad SLV-2G Agena D	-	525/2706	POPPY 6/NRL Comp 7	P-11 No. 4407	TAG169	-	V	SLC1W	-	-	1094	-	-
1969-101	2440547.53	1969 Nov 22 0037:00	Thor Delta M	-	554/D074	Skynet 1A	Skynet IA	-	-	CC	LC17A	-	-	37088	-	-
1969-105	2440560.40	1969 Dec 4 2138	Thorad SLV-2H Agena D	-	549/1655	CORONA 136/1108	CORONA CR-9	TAG170	-	VS	SLC3W	-	-	249	-	-
1970-003	2440601.51	1970 Jan 15 0016:03	Thor Delta M	-	557/D075	Intelsat III F-6	INTELSAT III F-6	-	-	CC	LC17A	-	-	36542	-	-
1970-008	2440609.98	1970 Jan 23 1131:02	Thor Delta N6	-	542/D076	ITOS 1	Tiros M	-	-	V	SLC2W	-	-	1483	-	-
1970-009	2440621.62	1970 Feb 4 0259:50	Thorad SLV-2G Agena D	-	534/6111 (TA12)	SERT 2	SERT 2	TAG171	-	V	SLC2E	-	-	1083	-	-
1970-012	2440628.86	1970 Feb 11 0840:47	Thor Burner 2	-	287/BII-9	DAPP 1524	DAPP Block 5A F-1	-	-	V	SLC10W	-	-	873	-	-
1970-016	2440650.43	1970 Mar 4 2215:00	Thorad SLV-2H Agena D	-	551/1657	CORONA 137/1109	CORONA CR-10	TAG172	-	VS	SLC3W	-	-	512	-	-
1970-021	2440666.49	1970 Mar 20 2352:00	Thor Delta M	-	558/D077	NATO 2A	NATO IIA	-	-	CC	LC17A	-	-	37777	-	-
1970-S270	2440673.82	1970 Mar 28 0737:22	Thor DSV-2J	-	152	AFP-437	-	-	-	JI	LE1	-	-	1074	-	-
1970-025	2440684.85	1970 Apr 8 0817:56	Thorad SLV-2G Agena D	?	553/6231 (TA13)	Nimbus 4	Nimbus D	TAG173	-	V	SLC2E	-	-	1100	-	-
1970-032	2440699.53	1970 Apr 23 0046:12	Thor Delta M	-	559/D078	Intelsat III F-7	INTELSAT III F-7	-	-	CC	LC17A	-	-	35842	-	-
1970-S328	2440701.50	1970 Apr 25?	Thor DSV-2J	-	225	SDP (DSDD)	-	-	-	JI	LE2	-	-	500?	-	-
1970-040	2440727.40	1970 May 20 2135:10	Thorad SLV-2H Agena D	-	555/1656	CORONA 138/1110	CORONA CR-11	TAG174	-	VS	SLC3W	-	-	502	-	-
1970-054	2440790.56	1970 Jul 23 0125	Thorad SLV-2H Agena D	-	556/1654	CORONA 139/1111	CORONA CR-12	TAG175	-	VS	SLC3W	-	-	408	-	-
1970-055	2440791.47	1970 Jul 23 2323:00	Thor Delta M	-	563/D079	Intelsat III F-8	INTELSAT III F-8	-	-	CC	LC17A	-	-	36706	-	-
1970-062	2440818.01	1970 Aug 19 1211:00	Thor Delta M	-	561/D080	Skynet 1B	Skynet IB	-	-	CC	LC17A	-	-	38324	-	-
1970-066	2440824.92	1970 Aug 26 1001	Thorad SLV-2G Agena D	?	535/2736	OPS 8329	STRAWMAN 3	TAG176	-	V	SLC1W	-	-	501	-	-
1970-070	2440832.86	1970 Sep 3 0839:45	Thor Burner 2	-	288/BII-13	DAPP 2525	DAPP Block 5A F-2	-	-	V	SLC10W	-	-	873	-	-
1970-S532	2440854.04	1970 Sep 24 1254:01	Thor DSV-2J	-	271	HAP/SXRE	-	-	-	JI	LE2	-	-	500	-	-
1970-098	2440909.39	1970 Nov 18 2128:00	Thorad SLV-2H Agena D	-	552/1658	CORONA 140/1112	CORONA QR-2R	TAG177	-	VS	SLC3W	-	-	510	-	-
1970-106	2440931.98	1970 Dec 11 1135:00	Thor Delta N6	-	546/D081	NOAA 1	ITOS A	-	-	V	SLC2W	-	-	1551	-	-
1971-009	2440985.57	1971 Feb 3 0141:40	Thor Delta M	-	560/D082	NATO 2B	NATO IIB	-	-	CC	LC17A	-	-	37712	-	-
1971-012	2440999.66	1971 Feb 17 0352:05	Thor Burner 2	-	249/BII-11	DAPP 3526	DAPP Block 5A F-3	-	-	V	SLC10W	-	-	833	-	-
1971-F01	2441000.34	1971 Feb 17 2004:30	Thorad SLV-2H Agena D	?	537/1659	CORONA 141/1113	CORONA CR-13	TAG178	-	VS	SLC3W	-	-	2	-	-
1971-019	2441024.18	1971 Mar 13 1615:00	Thor Delta M6	-	562/D083	Explorer 43	IMP I	-	-	CC	LC17A	-	-	150000	-	-
1971-022	2441035.38	1971 Mar 24 2106:00	Thorad SLV-2H Agena D	-	538/1660	CORONA 142/1114	CORONA CR-14	TAG179	-	VS	SLC3W	-	-	256	-	-
1971-024	2441042.62	1971 Apr 1 0257:07	Thor Delta E1	-	491/D084	Isis 2	Isis B	-	-	V	SLC2E	-	-	1515	-	-
1971-054	2441111.08	1971 Jun 8 1400:05	Thor Burner 2	-	210/BII-12	P70-1	P70-1	-	-	V	SLC10W	-	-	579	-	-
1971-060	2441148.95	1971 Jul 16 1049	Thorad SLV-2H Agena D	?	550/2737	OPS 8373	STRAWMAN 4	TAG180	-	V	SLC1W	-	-	506	-	-
1971-076	2441205.40	1971 Sep 10 2132:56	Thorad SLV-2H Agena D	-	567/1662	CORONA 143/1115	CORONA CR-15	TAG181	-	VS	SLC3W	-	-	507	-	-
1971-083	2441223.91	1971 Sep 29 0945:00	Thor Delta N	-	565/D085	OSO 7	OSO H	-	-	CC	LC17A	-	-	573	-	-
1971-087	2441238.83	1971 Oct 14 0751:17	Thor Burner 2A	-	159/BIIA-10	DMSP 4527	DMSP Block 5B F-1 (SV-2)	-	-	V	SLC10W	-	-	888	-	-
1971-089	2441242.07	1971 Oct 17 1336	Thorad SLV-2G Agena D	-	570/?	P71-2	ASTEX P71-2	TAG182	-	V	SLC1W	-	-	812	-	-
1971-091	2441245.98	1971 Oct 21 1132:00	Thor Delta N6	-	572/D086	ITOS B	ITOS B	-	-	V	SLC2E	-	-	1486	-	-
1971-110	2441300.01	1971 Dec 14 1213	Thorad SLV-2G Agena D	-	568/2707?	POPPY 7	POPPY 7 SV1	TAG183	-	V	SLC1W	-	-	999	-	-
1972-005	2441348.22	1972 Jan 31 1720:02	Thor Delta L	-	564/D087	HEOS 2	HEOS A2	-	-	V	SLC2E	-	-	150000	-	-
1972-014	2441388.58	1972 Mar 12 0155:08	Thor Delta N	-	573/D088	TD-1A	TD-1A	-	-	V	SLC2E	-	-	554	-	-
1972-018	2441400.87	1972 Mar 24 0846:12	Thor Burner 2A	-	153/BIIA-15	DMSP 5528	DMSP Block 5B F-2 (SV-1)	-	-	V	SLC10W	-	-	885	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
						Launch										
1972-032	2441427.41	1972 Apr 19 2143:59	Thorad SLV-2H Agena D	-	569/1661	CORONA 144/1116	CORONA CR-16	TAG184	-	VS	SLC3W	-	-	291	-	-
1972-039	2441463.28	1972 May 25 1841:00	Thorad SLV-2H Agena D	-	571/1663	CORONA 145/1117	CORONA CR-8R	TAG185	-	VS	SLC3W	-	-	315	-	-
1972-058	2441522.25	1972 Jul 23 1806:06	Delta 0900	-	574/D089	ERTS 1	ERTS A	-	-	V	SLC2W	-	-	921	-	-
1972-073	2441583.56	1972 Sep 23 0120:00	Delta 1604	-	579/D090	Explorer 47	IMP H	-	-	CC	LC17B	-	-	150000	-	-
1972-082	2441606.22	1972 Oct 15 1719:19	Delta 0300	-	575/D091	NOAA 2	ITOS D	-	-	V	SLC2W	-	-	1474	-	-
1972-089	2441630.64	1972 Nov 9 0323:46	Thor Burner 2A	-	294/BIIA-16	DMSP 6530	DMSP Block 5B F-3	-	-	V	SLC10W	-	-	882	-	-
1972-090	2441631.55	1972 Nov 10 0114:03	Delta 1914	-	580/D092	Anik A1	Anik A1	-	-	CC	LC17B	-	-	37092	-	-
1972-097	2441662.83	1972 Dec 11 0756:00	Delta 0900	-	577/D093	Nimbus 5	Nimbus E	-	-	V	SLC2W	-	-	1519	-	-
1973-023	2441793.49	1973 Apr 20 2347:03	Delta 1914	-	583/D094	Anik A2	Anik A2	-	-	CC	LC17B	-	-	36563	-	-
1973-039	2441844.09	1973 Jun 10 1413:00	Delta 1913	-	581/D095	Explorer 49	RAE B	-	-	CC	LC17B	-	-	150000	-	-
1973-F06	2441880.22	1973 Jul 16 1710:21	Delta 0300	-	578/D096	ITOS E	ITOS E	-	-	V	SLC2W	-	-	200?	-	-
1973-054	2441911.70	1973 Aug 17 0449:12	Thor Burner 2A	-	291/BIIA-21	DMSP 7529	DMSP Block 5B F-4	-	-	V	SLC10W	-	-	860	-	-
1973-078	2441981.60	1973 Oct 26 0226:03	Delta 1604	-	582/D097	Explorer 50	IMP J	-	-	CC	LC17B	-	-	150000	-	-
1973-086	2441993.21	1973 Nov 6 1702:00	Delta 0300	-	576/D098	NOAA 3	ITOS F	-	-	V	SLC2W	-	-	1950	-	-
1973-101	2442032.76	1973 Dec 16 0618:00	Delta 1900	-	585/D099	Explorer 51	AE-C	-	-	V	SLC2W	-	-	4305	-	-
1974-002	2442066.57	1974 Jan 19 0138:47	Delta 2313	-	587/D100	Skynet 2A	Skynet IIA	-	-	CC	LC17B	-	-	4297	-	-
1974-015	2442122.83	1974 Mar 16 0800:11	Thor Burner 2A	-	207/BIIA-19	DMSP 8531	DMSP Block 5B F-5	-	-	V	SLC10W	-	-	887	-	-
1974-022	2442151.48	1974 Apr 13 2333:03	Delta 2914	C	588/D101	Westar 1	Westar 1	-	-	CC	LC17B	-	-	36248	-	-
1974-033	2442184.90	1974 May 17 0931:00	Delta 2914	-	590/D102	SMS 1	SMS A	-	-	CC	LC17B	-	-	36351	-	-
1974-063	2442268.64	1974 Aug 9 0322:47	Thor Burner 2A	-	275/BIIA-22	DMSP 9532	DMSP Block 5C F-1	-	-	V	SLC10W	-	-	876	-	-
1974-075	2442331.45	1974 Oct 10 2253:00	Delta 2914	C	589/D103	Westar 2	Westar 2	-	-	CC	LC17B	-	-	36441	-	-
1974-089	2442367.22	1974 Nov 15 1711:00	Delta 2310	-	592/D104	NOAA 4	ITOS G	-	-	V	SLC2W	-	-	1562	-	-
1974-094	2442374.52	1974 Nov 23 0028:01	Delta 2313	-	591/D105	Skynet 2B	Skynet IIB	-	-	CC	LC17B	-	-	36944	-	-
1974-101	2442400.61	1974 Dec 19 0239:00	Delta 2914	-	599/D106	Symphonie 1	Symphonie MV1	-	-	CC	LC17B	-	-	38245	-	-
1975-004	2442435.25	1975 Jan 22 1755:52	Delta 2910	-	598/D107	Landsat 2	Landsat B	-	-	V	SLC2W	-	-	1054	-	-
1975-011	2442450.42	1975 Feb 6 2204:00	Delta 2914	-	593/D108	SMS 2	SMS B	-	-	CC	LC17B	-	-	36786	-	-
1975-027	2442512.50	1975 Apr 9 2358:02	Delta 1410	-	584/D109	Geos 3	Geos C	-	-	V	SLC2W	-	-	876	-	-
1975-038	2442540.48	1975 May 7 2335:26	Delta 2914	C	596/D110	Anik A3	Anik A3	-	-	CC	LC17B	-	-	36156	-	-
1975-043	2442556.64	1975 May 24 0322:41	Thor Burner 2A	-	197/BIIA-24	DMSP 10533	DMSP Block 5C F-2	-	-	V	SLC10W	-	-	895	-	-
1975-052	2442575.84	1975 Jun 12 0812:01	Delta 2910	-	595/D111	Nimbus 6	Nimbus F	-	-	V	SLC2W	-	-	1183	-	-
1975-057	2442584.99	1975 Jun 21 1143:00	Delta 1910	-	586/D112	OSO 8	OSO I	-	-	CC	LC17B	-	-	557	-	-
1975-072	2442633.58	1975 Aug 9 0150:00	Delta 2913	-	602/D113	COS-B	COS-B	-	-	V	SLC2W	-	-	99873	-	-
1975-077	2442651.57	1975 Aug 27 0142:00	Delta 2914	-	594/D114	Symphonie 2	Symphonie MV2	-	-	CC	LC17A	-	-	38187	-	-
1975-082	2442664.73	1975 Sep 9 0530	N-1	-	N-1(F)	Kiku-1	ETS 1	-	-	TNSC	N	-	-	1104	-	-
1975-S277	2442674.78	1975 Sep 19 0650:00	Thor DSV-2J	-	201	DG-5	-	-	-	JI	LE2	-	-	500?	-	-
1975-096	2442691.88	1975 Oct 6 0900:50	Delta 2910	-	600/D115	Explorer 54	AE-D	-	-	V	SLC2W	-	-	3801	-	-
1975-100	2442702.44	1975 Oct 16 2240:00	Delta 2914	-	597/D116	GOES 1	GOES A	-	-	CC	LC17B	-	-	36978	-	-
1975-S314	2442722.74	1975 Nov 6 0545:00	Thor DSV-2J	-	274	DG-3	-	-	-	JI	LE2	-	-	500?	-	-
1975-107	2442736.59	1975 Nov 20 0206:48	Delta 2910	-	604/D117	Explorer 55	AE-E	-	-	CC	LC17B	-	-	3005	-	-
1975-117	2442759.58	1975 Dec 13 0156:14	Delta 3914	-	607/D118	Satcom 1	RCA-A	-	-	CC	LC17A	-	-	36219	-	-
1976-004	2442795.48	1976 Jan 17 2327:54	Delta 2914	-	606/D119	CTS	CTS	-	-	CC	LC17B	-	-	46566	-	-
1976-016	2442827.83	1976 Feb 19 0752:52	Thor Burner 2A	-	182/BIIA-25	DMSP 11534	DMSP Block 5C F-3	-	-	V	SLC10W	-	-	360	-	-
1976-017	2442828.44	1976 Feb 19 2232	Delta 2914	-	603/D120	Marisat 1	Marisat A	-	-	CC	LC17B	-	-	36952	-	-
1976-019	2442837.65	1976 Feb 29 0330	N-1	-	N-2(F)	Ume	ISS	-	-	TNSC	N	-	-	1015	-	-
1976-029	2442864.45	1976 Mar 26 2247	Delta 3914	-	610/D121	Satcom 2	RCA-B	-	-	CC	LC17A	-	-	36602	-	-
1976-035	2442891.37	1976 Apr 22 2046:00	Delta 2914	-	608/D122	NATO 3A	NATO 3A	-	-	CC	LC17B	-	-	36988	-	-
1976-039	2442902.83	1976 May 4 0800	Delta 2913	-	609/D123	Lageos	Lageos	-	-	V	SLC2W	-	-	5958	-	-
1976-053	2442939.51	1976 Jun 10 0009	Delta 2914	-	601/D124	Marisat 2	Marisat B	-	-	CC	LC17A	-	-	37641	-	-
1976-066	2442968.48	1976 Jul 8 2331	Delta 2914	C	611/D125	Palapa A1	Palapa A1	-	-	CC	LC17A	-	-	38928	-	-
1976-077	2442989.21	1976 Jul 29 1707	Delta 2310	-	605/D126	NOAA 5	ITOS H	-	-	V	SLC2W	-	-	1524	-	-
1976-091	2443032.83	1976 Sep 11 0800:55	Thor DSV-2U	-	172	DMSP 5D F-1	DMSP Block 5D S-1	-	-	V	SLC10W	-	-	850	-	-
1976-101	2443066.45	1976 Oct 14 2244	Delta 2914	-	614/D127	Marisat 3	Marisat C	-	-	CC	LC17A	-	-	47541	-	-
1977-005	2443171.53	1977 Jan 28 0050:00	Delta 2914	-	613/D128	NATO 3B	NATO 3B	-	-	CC	LC17A	-	-	37468	-	-
1977-014	2443197.87	1977 Feb 23 0850	N-1	-	N-3(F)	Kiku 2	ETS-2	-	-	TNSC	N	-	-	36646	-	-
1977-018	2443213.47	1977 Mar 10 2316	Delta 2914	-	612/D129	Palapa A2	Palapa A2	-	-	CC	LC17A	-	-	36481	-	-
1977-029	2443253.93	1977 Apr 20 1015	Delta 2914	-	617/D130	Geos 1	Geos 1	-	-	CC	LC17B	-	-	38634	-	-
1977-044	2443299.62	1977 Jun 5 0259:02	Thor DSV-2U	-	183	DMSP 5D F-2	DMSP Block 5D S-2	-	-	V	SLC10W	-	-	861	-	-
1977-048	2443310.95	1977 Jun 16 1051:00	Delta 2914	-	616/D131	GOES 2	GOES B	-	-	CC	LC17B	-	-	37206	-	-
1977-065	2443338.94	1977 Jul 14 1039:00	Delta 2914	-	618/D132	GMS	GMS	-	-	CC	LC17B	-	-	37548	-	-
1977-080	2443381.49	1977 Aug 25 2349:59	Delta 2313	-	615/D133	Sirio	Sirio 1	-	-	CC	LC17B	-	-	37175	-	-
1977-F04	2443400.48	1977 Sep 13 2331:00	Delta 3914	-	619/D134	OTS 1	OTS 1	-	-	CC	LC17A	-	-	10?	-	-
1977-102	2443439.08	1977 Oct 22 1353:00	Delta 2914	-	623/D135	ISEE 1/2	ISEE A	-	-	CC	LC17B	-	-	137982	-	-
1977-108	2443470.57	1977 Nov 23 0135:00	Delta 2914	-	620/D136	Meteosat 1	Meteosat 1	-	-	CC	LC17A	-	-	37367	-	-
1977-118	2443492.53	1977 Dec 15 0047:03	Delta 2914	-	624/D137	CS	CS	-	-	CC	LC17B	-	-	37189	-	-
1978-012	2443535.23	1978 Jan 26 1736:00	Delta 2914	-	628/D138	IUE	IUE	-	-	CC	LC17A	-	-	47025	-	-
1978-018	2443555.67	1978 Feb 16 0400	N-1	-	N-4(F)	Ume 2	ISS-b	-	-	TNSC	N	-	-	1294	-	-
1978-026	2443573.25	1978 Mar 5 1754	Delta 2910	-	621/D139	Landsat 3	Landsat C	-	-	V	SLC2W	-	-	1001	-	-
1978-039	2443606.42	1978 Apr 7 2201:00	Delta 2914	-	626/D140	BSE	BSE	-	-	CC	LC17B	-	-	36555	-	-
1978-042	2443629.63	1978 May 1 0305:04	Thor DSV-2U	-	143	DMSP 5D F-3	DMSP Block 5D S-3	-	-	V	SLC10W	-	-	838	-	-
1978-044	2443640.46	1978 May 11 2259:00	Delta 3914	-	627/D141	OTS 2	OTS 2	-	-	CC	LC17A	-	-	36267	-	-
1978-062	2443675.95	1978 Jun 16 1049	Delta 2914	-	625/D142	GOES 3	GOES C	-	-	CC	LC17B	-	-	37150	-	-
1978-071	2443703.95	1978 Jul 14 1043	Delta 2914	-	631/D143	Geos 2	Geos 2	-	-	CC	LC17A	-	-	37497	-	-
1978-079	2443733.13	1978 Aug 12 1512	Delta 2914	-	633/D144	ISEE 3	ISEE C	-	-	CC	LC17B	-	-	150000	-	-
1978-098	2443805.84	1978 Oct 24 0814:01	Delta 2910	-	630/D145	Nimbus 7	Nimbus G	-	-	V	SLC2W	-	-	976	-	-
1978-106	2443831.53	1978 Nov 19 0046:00	Delta 2914	-	634/D146	NATO 3C	NATO 3C	-	-	CC	LC17B	-	-	36797	-	-
1978-116	2443858.51	1978 Dec 16 0021	Delta 3914	-	632/D147	Anik B	Anik B	-	-	CC	LC17A	-	-	36100	-	-
1979-007	2443904.40	1979 Jan 30 2142	Delta 2914	-	629/D148	Scatha	P78-2	-	-	CC	LC17B	-	-	43354	-	-
1979-009	2443910.87	1979 Feb 6 0846	N-1	-	N-5(F)	Ayame	ECS	-	-	TNSC	N	-	-	38792	-	-
1979-050	2444031.27	1979 Jun 6 1822:12	Thor DSV-2U	-	264	DMSP 5D F-4	DMSP Block 5D S-5	-	-	V	SLC10W	-	-	847	-	-
1979-072	2444095.51	1979 Aug 10 0020	Delta 2914	-	638/D149	Westar 3	Westar 3	-	-	CC	LC17A	-	-	36854	-	-
1979-101	2444214.57	1979 Dec 7 0135	Delta 3914	-	622/D150	Satcom 3	RCA-C	-	-	CC	LC17A	-	-	36110	-	-
1980-014	2444284.16	1980 Feb 14 1557	Delta 3910	-	635/D151	Solar Max	SMM	-	-	CC	LC17A	-	-	604	-	-
1980-018	2444291.86	1980 Feb 22 0835	N-1	-	N-6(F)	Ayame 2	ECS-b	-	-	TNSC	N	-	-	40308	-	-
1980-F02	2444435.60	1980 Jul 15 0222:11	Thor DSV-2U	-	304	DMSP 5D F-5	DMSP Block 5D S-4	-	-	V	SLC10W	-	-	820	-	-
1980-074	2444492.44	1980 Sep 9 2227	Delta 3914	-	637/D152	GOES 4	GOES D	-	-	CC	LC17A	-	-	51834	-	-
1980-091	2444559.45	1980 Nov 15 2249	Delta 3910/PAM	-	636/D153	SBS 1	SBS 1	-	-	CC	LC17A	-	-	36964	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-012	2444646.85	1981 Feb 11 0830	N-2	-	N-7(F)	Kiku-3	ETS-4	-	-	TNSC	N	-	-	36253	-	-
1981-049	2444747.44	1981 May 22 2229	Delta 3914	-	645/D154	GOES 5	GOES E	-	-	CC	LC17A	-	-	49767	-	-
1981-070	2444819.91	1981 Aug 3 0956	Delta 3913	-	642/D155	DE 1/DE 2	DE A	-	-	V	SLC2W	-	-	23507	-	-
1981-076	2444827.34	1981 Aug 10 2003	N-2	-	N-8(F)	GMS 2	GMS 2	-	-	TNSC	N	-	-	37091	-	-
1981-096	2444872.46	1981 Sep 24 2309	Delta 3910/PAM	-	641/D156	SBS 2	SBS 2	-	-	CC	LC17A	-	-	37399	-	-
1981-100	2444883.98	1981 Oct 6 1127	Delta 2310	-	639/D157	SME	Solar Mesosphere Explore	-	-	V	SLC2W	-	-	2750	-	-
1981-114	2444928.57	1981 Nov 20 0137	Delta 3910/PAM	-	640/D158	Satcom 3R	RCA-D	-	-	CC	LC17A	-	-	36931	-	-
1982-004	2444985.58	1982 Jan 16 0155	Delta 3910/PAM	-	643/D159	Satcom 4	RCA-C'	-	-	CC	LC17A	-	-	38283	-	-
1982-014	2445026.50	1982 Feb 26 0004:44	Delta 3910/PAM	-	644/D160	Westar 4	Westar 4	-	-	CC	LC17A	-	-	36724	-	-
1982-031	2445069.78	1982 Apr 10 0647	Delta 3910/PAM	-	647/D161	Insat 1A	Insat 1A	-	-	CC	LC17A	-	-	36720	-	-
1982-058	2445129.52	1982 Jun 9 0024	Delta 3910/PAM	-	649/D162	Westar 5	Westar 5	-	-	CC	LC17A	-	-	37890	-	-
1982-072	2445167.25	1982 Jul 16 1759	Delta 3920	-	648/D163	Landsat 4	Landsat D	-	-	V	SLC2W	-	-	712	-	-
1982-082	2445208.47	1982 Aug 26 2310	Delta 3920/PAM	-	651/D164	Anik D-1	Anik D-1	-	-	CC	LC17B	-	-	36366	-	-
1982-087	2445215.71	1982 Sep 3 0500	N-1	-	N-9(F)	Kiku-4	ETS 3	-	-	TNSC	N	-	-	1252	-	-
1982-105	2445270.56	1982 Oct 28 0127:49	Delta 3924	-	652/D165	Satcom 5	RCA-E	-	-	CC	LC17B	-	-	36677	-	-
1983-004	2445360.60	1983 Jan 26 0217:00	Delta 3910	-	650/D166	IRAS	IRAS	-	-	V	SLC2W	-	-	915	-	-
1983-006	2445369.86	1983 Feb 4 0837	N-2	-	N-10(F)	CS 2A	CS 2A	-	-	TNSC	N	-	-	37172	-	-
1983-030	2445436.44	1983 Apr 11 2239	Delta 3924	-	653/D167	Satcom 1R	RCA-F	-	-	CC	LC17B	-	-	37376	-	-
1983-041	2445453.43	1983 Apr 28 2226	Delta 3914	-	D168	GOES 6	GOES F	-	-	CC	LC17A	-	-	49686	-	-
1983-051	2445481.14	1983 May 26 1518	Delta 3914	-	D169	Exosat	Exosat	-	-	V	SLC2W	-	-	150000	-	-
1983-065	2445514.46	1983 Jun 28 2308	Delta 3920/PAM	-	D170	Galaxy 1	Galaxy I	-	-	CC	LC17B	-	-	36433	-	-
1983-077	2445544.45	1983 Jul 28 2249	Delta 3920/PAM	-	D171	Telstar 301	Telstar 301	-	-	CC	LC17A	-	-	39860	-	-
1983-081	2445552.35	1983 Aug 5 2029	N-2	-	N-11(F)	CS 2B	CS-2B	-	-	TNSC	N	-	-	36705	-	-
1983-094	2445586.45	1983 Sep 8 2252	Delta 3924	-	D172	Satcom 2R	RCA-G	-	-	CC	LC17B	-	-	36850	-	-
1983-098	2445600.43	1983 Sep 22 2216	Delta 3920/PAM	-	D173	Galaxy 2	Galaxy II	-	-	CC	LC17A	-	-	36773	-	-
1984-005	2445722.83	1984 Jan 23 0758	N-2	-	N-12(F)	BS 2A	BS 2A	-	-	TNSC	N	-	-	36280	-	-
1984-021	2445761.25	1984 Mar 1 1759	Delta 3920	-	D174	Landsat 5	Landsat D'	-	-	V	SLC2W	-	-	716	-	-
1984-080	2445915.35	1984 Aug 2 2030	N-2	-	N-13(F)	GMS 3	GMS 3	-	-	TNSC	N	-	-	36724	-	-
1984-088	2445929.12	1984 Aug 16 1448	Delta 3924	-	D175	AMPTE	AMPTE-CCE	-	-	CC	LC17A	-	-	114669	-	-
1984-101	2445965.43	1984 Sep 21 2218	Delta 3920/PAM	-	D176	Galaxy 3	Galaxy III	-	-	CC	LC17B	-	-	37086	-	-
1984-115	2446018.52	1984 Nov 14 0034	Delta 3914	-	D177	NATO 3D	NATO 3D	-	-	CC	LC17A	-	-	38584	-	-
1986-016	2446473.83	1986 Feb 12 0755	N-2	-	N-14(F)	BS 2B	BS 2b	-	-	TNSC	N	-	-	36490	-	-
1986-F04	2446554.43	1986 May 3 2218	Delta 3914	-	D178	GOES G	GOES G	-	-	CC	LC17A	-	-	30?	-	-
1986-061	2446655.36	1986 Aug 12 2045:00	H-1	(2)	H-15(F)	EGP	EGP	-	-	TNSC	N	-	-	1596	-	-
1986-069	2446679.13	1986 Sep 5 1508:01	Delta 3920	-	D180	USA 19 (SDIO D180)	Payload Adapter System	-	-	CC	LC17B	-	-	765	-	-
1987-018	2446845.56	1987 Feb 19 0123	N-2	(2)	N-16(F)	Momo	MOS-1	-	-	TNSC	N	-	-	921	-	-
1987-022	2446853.46	1987 Feb 26 2305	Delta 3924	-	D179	GOES 7	GOES H	-	-	CC	LC17A	-	-	40919	-	-
1987-029	2446875.43	1987 Mar 20 2222	Delta 3920/PAM	-	D182	Palapa B2P	Palapa B2P	-	-	CC	LC17B	-	-	37616	-	-
1987-070	2447034.89	1987 Aug 27 0920	H-1	-	H-17(F)	Kiku 5	ETS-5	-	-	TNSC	N	-	-	36812	-	-
1988-008	2447200.42	1988 Feb 8 2207:00	Delta 3910	-	D181	USA 30 (SDIO D181)	Canister Cluster	-	-	CC	LC17B	-	-	340	-	-
1988-012	2447210.92	1988 Feb 19 1005	H-1	-	H-18(F)	CS 3A	CS-3A	-	-	TNSC	N	-	-	37479	-	-
1988-086	2447420.92	1988 Sep 16 0959	H-1	-	H-19(F)	CS 3B	CS-3B	-	-	TNSC	N	-	-	37774	-	-
1989-013	2447572.27	1989 Feb 14 1830:00	Delta 6925	-	D184	USA 35 (GPS II-1)	Navstar GPS SVN 14	-	-	CC	LC17A	-	-	26844	-	-
1989-026	2447610.41	1989 Mar 24 2150:49	Delta 3920-8	-	D183	USA 36 (Delta Star)	Delta Star	-	-	CC	LC17B	-	-	539	-	-
1989-044	2447688.44	1989 Jun 10 2230:00	Delta 6925	-	D185	USA 38 (GPS II-2)	Navstar GPS SVN 13	-	-	CC	LC17A	-	-	21336	-	-
1989-064	2447756.75	1989 Aug 18 0557:59	Delta 6925	-	D186	USA 42 (GPS II-3)	Navstar GPS SVN 16	-	-	CC	LC17A	-	-	23096	-	-
1989-067	2447766.46	1989 Aug 27 2259	Delta 4925-8	-	D187	Marcopolo 1	BSB R1	-	-	CC	LC17B	-	-	36913	-	-
1989-070	2447775.30	1989 Sep 5 1911:00	H-1	6R	H-20(F)	GMS 4	GMS 4	-	-	TNSC	N	-	-	46120	-	-
1989-085	2447820.90	1989 Oct 21 0931:01	Delta 6925	-	D188	USA 47 (GPS II-4)	Navstar GPS SVN 19	-	-	CC	LC17A	-	-	28505	-	-
1989-089	2447849.11	1989 Nov 18 1434	Delta 5920-8	-	D189	COBE	COBE	-	-	V	SLC2W	-	-	897	-	-
1989-097	2447872.26	1989 Dec 11 1810:01	Delta 6925	-	D190	USA 49 (GPS II-5)	Navstar GPS SVN 17	-	-	CC	LC17B	-	-	23041	-	-
1990-008	2447916.45	1990 Jan 24 2255:01	Delta 6925	-	D191	USA 50 (GPS II-6)	Navstar GPS SVN 18	-	-	CC	LC17A	-	-	21239	-	-
1990-013	2447929.56	1990 Feb 7 0133:00	H-1	(2)	H-21(F)	Momo-1b	Mos-1b	-	-	TNSC	N	-	-	1747	-	-
1990-015	2447937.18	1990 Feb 14 1615:01	Delta 6920-8	-	D192	USA 51/52 (LACE/RME)	LACE	-	-	CC	LC17B	-	-	549	-	-
1990-025	2447976.61	1990 Mar 26 0245:01	Delta 6925	-	D193	USA 54 (GPS II-7)	Navstar GPS SVN 20	-	-	CC	LC17A	-	-	22009	-	-
1990-034	2447995.44	1990 Apr 13 2228:00	Delta 6925-8	-	D194	Palapa B2R	Palapa B2R	-	-	CC	LC17B	-	-	37784	-	-
1990-049	2448044.41	1990 Jun 1 2148:00	Delta 6920-10	-	D195	ROSAT	ROSAT	-	-	CC	LC17A	-	-	585	-	-
1990-051	2448054.74	1990 Jun 12 0552	Delta 4925-8	-	D196	Insat 1D	Insat 1D	-	-	CC	LC17B	-	-	39961	-	-
1990-068	2448105.74	1990 Aug 2 0539:00	Delta 6925	-	D197	USA 63 (GPS II-8)	Navstar GPS SVN 21	-	-	CC	LC17A	-	-	21597	-	-
1990-074	2448121.53	1990 Aug 18 0042:00	Delta 6925	-	D198	Marcopolo 2	BSB R2	-	-	CC	LC17B	-	-	37622	-	-
1990-077	2448131.88	1990 Aug 28 0905	H-1	-	H-22(F)	BS 3A	BS 3A	-	-	TNSC	N	-	-	38084	-	-
1990-088	2448166.41	1990 Oct 1 2156:00	Delta 6925	-	D199	USA 64 (GPS II-9)	Navstar GPS SVN 15	-	-	CC	LC17A	-	-	22810	-	-
1990-093	2448195.47	1990 Oct 30 2316:00	Delta 6925	-	D200	Inmarsat II F-1	INMARSAT II F-1	-	-	CC	LC17B	-	-	36965	-	-
1990-103	2448222.40	1990 Nov 26 2139:01	Delta 7925	-	D201	USA 66 (GPS IIA-10)	Navstar GPS SVN 23	-	-	CC	LC17A	-	-	21385	-	-
1991-001	2448264.54	1991 Jan 8 0053:01	Delta 7925	-	D202	NATO 4A	NATO 4A	-	-	CC	LC17B	-	-	36395	-	-
1991-018	2448324.46	1991 Mar 8 2303:00	Delta 6925	-	D203	Inmarsat II F-2	INMARSAT II F-2	-	-	CC	LC17B	-	-	36644	-	-
1991-028	2448359.51	1991 Apr 13 0009:00	Delta 7925	-	D204	Spacenet 4	ASC 2	-	-	CC	LC17B	-	-	36060	-	-
1991-037	2448406.45	1991 May 29 2255:00	Delta 7925	-	D205	Aurora 2	Satcom C-5	-	-	CC	LC17B	-	-	36328	-	-
1991-047	2448441.61	1991 Jul 4 0232:00	Delta 7925	-	D206	USA 71 (GPS IIA-11)	Navstar GPS SVN 24	-	-	CC	LC17A	-	-	21071	-	-
1991-060	2448493.86	1991 Aug 25 0840	H-1	-	H-23(F)	BS 3B	BS 3B	-	-	TNSC	N	-	-	37569	-	-
1992-007	2448663.58	1992 Feb 11 0150	H-1	(2)	H-24(F)	Fuyo	ERS-1	-	-	TNSC	N	-	-	578	-	-
1992-009	2448676.44	1992 Feb 23 2229:00	Delta 7925	-	D207	USA 79 (GPS IIA-12)	Navstar GPS SVN 25	-	-	CC	LC17B	-	-	23458	-	-
1992-019	2448722.64	1992 Apr 10 0320:00	Delta 7925	-	D208	USA 80 (GPS IIA-13)	Navstar GPS SVN 28	-	-	CC	LC17B	-	-	21479	-	-
1992-027	2448756.53	1992 May 14 0040:00	Delta 7925	-	D209	Palapa B4	Palapa B4	-	-	CC	LC17B	-	-	36840	-	-
1992-031	2448781.19	1992 Jun 7 1640:00	Delta 6920-10	-	D210	EUVE	EUVE	-	-	CC	LC17A	-	-	567	-	-
1992-039	2448810.89	1992 Jul 7 0920:01	Delta 7925	-	D211	USA 83 (GPS IIA-14)	Navstar GPS SVN 26	-	-	CC	LC17B	-	-	21383	-	-
1992-044	2448828.10	1992 Jul 24 1426:00	Delta 6925	-	D212	Geotail	Geotail	-	-	CC	LC17A	-	-	150000	-	-
1992-057	2448865.95	1992 Aug 31 1040:59	Delta 7925	-	D213	Satcom C4	Satcom C-4	-	-	CC	LC17B	-	-	36178	-	-
1992-058	2448874.87	1992 Sep 9 0857:00	Delta 7925	-	D214	USA 84 (GPS IIA-15)	Navstar GPS SVN 27	-	-	CC	LC17A	-	-	24331	-	-
1992-066	2448907.91	1992 Oct 12 0947:00	Delta 7925	-	D215	DFS 3	DFS 3	-	-	CC	LC17B	-	-	37530	-	-
1992-079	2448949.50	1992 Nov 22 2354:00	Delta 7925	-	D216	USA 85 (GPS IIA-16)	Navstar GPS SVN 32	-	-	CC	LC17A	-	-	21460	-	-
1992-089	2448975.43	1992 Dec 18 2216:00	Delta 7925	-	D217	USA 87 (GPS IIA-17)	Navstar GPS SVN 29	-	-	CC	LC17B	-	-	21500	-	-
1993-007	2449021.62	1993 Feb 3 0255:00	Delta 7925	-	D218	USA 88 (GPS IIA-18)	Navstar GPS SVN 22	-	-	CC	LC17A	-	-	21412	-	-
1993-017	2449076.63	1993 Mar 30 0309:00	Delta 7925	-	D219	USA 90 (GPS IIA-19)	Navstar GPS SVN 31	-	-	CC	LC17A	-	-	21311	-	-
1993-032	2449120.50	1993 May 13 0007:00	Delta 7925	-	D220	USA 91 (GPS IIA-20)	Navstar GPS SVN 37	-	-	CC	LC17A	-	-	23164	-	-
1993-042	2449165.06	1993 Jun 26 1327:00	Delta 7925	-	D221	USA 92 (GPS IIA-21)	Navstar GPS SVN 39	-	-	CC	LC17A	-	-	21270	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1993-054	2449230.03	1993 Aug 30 1238:00	Delta 7925	-	D222	USA 94 (GPS IIA-22)	Navstar GPS SVN 35	-	-	CC	LC17B	-	-	21375	-	-
1993-068	2449287.21	1993 Oct 26 1704:00	Delta 7925	-	D223	USA 96 (GPS IIA-23)	Navstar GPS SVN 34	-	-	CC	LC17B	-	-	21328	-	-
1993-076	2449329.53	1993 Dec 8 0048:00	Delta 7925	-	D224	USA 98 (NATO 4B)	NATO 4B	-	-	CC	LC17A	-	-	36951	-	-
1994-013	2449403.49	1994 Feb 19 2345:00	Delta 7925-8	-	D225	Galaxy 1R	Galaxy 1RR	-	-	CC	LC17B	-	-	37295	-	-
1994-016	2449421.65	1994 Mar 10 0340:01	Delta 7925	-	D226	USA 100 (GPS IIA-24)	Navstar GPS SVN 36	-	-	CC	LC17A	-	-	24068	-	-
1994-071	2449657.90	1994 Nov 1 0931:00	Delta 7925-10	-	D227	Wind	WIND	-	-	CC	LC17B	-	-	150000	-	-
1995-041	2449934.97	1995 Aug 5 1110:00	Delta 7925	-	D228	Koreasat 1	Koreasat 1	-	-	CC	LC17B	-	-	36319	-	-
1995-059	2450026.10	1995 Nov 4 1422:00	Delta 7920-10	-	D229	Radarsat	Radarsat	-	-	V	SLC2W	-	-	1495	-	-
1995-074	2450082.08	1995 Dec 30 1348:00	Delta 7920-10	-	D230	XTE	XTE	-	-	CC	LC17A	-	-	694	-	-
1996-003	2450096.97	1996 Jan 14 1110:00	Delta 7925	-	D231	Koreasat 2	Koreasat 2	-	-	CC	LC17B	-	-	42212	-	-
1996-008	2450131.36	1996 Feb 17 2043:27	Delta 7925-8	-	D232	NEAR	NEAR	-	-	CC	LC17B	-	-	150000	-	-
1996-013	2450137.98	1996 Feb 24 1124:00	Delta 7925-10	-	D233	Polar	Polar	-	-	V	SLC2W	-	-	55683	-	-
1996-019	2450170.51	1996 Mar 28 0021:00	Delta 7925	-	D234	USA 117 (GPS IIA-25)	Navstar GPS SVN 33	-	-	CC	LC17B	-	-	20919	-	-
1996-024	2450198.02	1996 Apr 24 1227:40	Delta 7920-10	-	D235	MSX	MSX	-	-	V	SLC2W	-	-	972	-	-
1996-033	2450227.55	1996 May 24 0110:00	Delta 7925	-	D236	Galaxy 9	Galaxy 9	-	-	CC	LC17B	-	-	38271	-	-
1996-041	2450280.53	1996 Jul 16 0050:00	Delta 7925	-	D237	USA 126 (GPS IIA-26)	Navstar GPS SVN 40	-	-	CC	LC17A	-	-	30087	-	-
1996-056	2450338.87	1996 Sep 12 0849:00	Delta 7925	-	D238	USA 128 (GPS IIA-27)	Navstar GPS SVN 30	-	-	CC	LC17A	-	-	33649	-	-
1996-062	2450395.21	1996 Nov 7 1700:49	Delta 7925	-	D239	MGS	MGS	-	-	CC	LC17A	-	-	150000	-	-
1996-068	2450421.79	1996 Dec 4 0658:07	Delta 7925	-	D240	MPF	MPF Lander	-	-	CC	LC17B	-	-	150000	-	-
1997-F01	2450466.19	1997 Jan 17 1628:01	Delta 7925	-	D241	GPS IIR-1	Navstar GPS SVN 42	-	-	CC	LC17A	-	-	1	-	-
1997-020	2450574.12	1997 May 5 1455:28	Delta 7920-10C	-	D242	Iridium MS-1A	Iridium MS-1A	-	-	V	SLC2W	-	-	952	-	-
1997-025	2450589.44	1997 May 20 2239:00	Delta 7925	-	D243	Thor II	Thor 2A	-	-	CC	LC17A	-	-	36758	-	-
1997-034	2450639.04	1997 Jul 9 1304	Delta 7920-10C	-	D244	Iridium MS-2	Iridium MS-2	-	-	V	SLC2W	-	-	791	-	-
1997-035	2450652.65	1997 Jul 23 0343:01	Delta 7925	-	D245	USA 132 (GPS IIR-2)	Navstar GPS SVN 43	-	-	CC	LC17A	-	-	28218	-	-
1997-043	2450681.53	1997 Aug 21 0038:40	Delta 7920-10C	-	D246	Iridium MS-3	Iridium MS-3	-	-	V	SLC2W	-	-	792	-	-
1997-045	2450686.11	1997 Aug 25 1439:00	Delta 7920-8	-	D247	ACE	Advanced Composition Exp	-	-	CC	LC17A	-	-	150000	-	-
1997-056	2450718.56	1997 Sep 27 0123:36	Delta 7920-10C	-	D248	Iridium MS-4	Iridium MS-4	-	-	V	SLC2W	-	-	809	-	-
1997-067	2450758.52	1997 Nov 6 0030:00	Delta 7925	-	D249	USA 134 (GPS IIA-28)	Navstar GPS SVN 38	-	-	CC	LC17A	-	-	21507	-	-
1997-069	2450761.57	1997 Nov 9 0134:26	Delta 7920-10C	-	D250	Iridium MS-5	Iridium MS-5	-	-	V	SLC2W	-	-	785	-	-
1997-082	2450803.05	1997 Dec 20 1316	Delta 7920-10C	-	D251	Iridium MS-6	Iridium MS-6	-	-	V	SLC2W	-	-	788	-	-
1998-002	2450823.52	1998 Jan 10 0032:01	Delta 7925-9.5	-	D252	Skynet 4D	Skynet 4D	-	-	CC	LC17B	-	-	37426	-	-
1998-008	2450859.11	1998 Feb 14 1434:00	Delta 7420-10C	-	D253	Globalstar 1-4	Globalstar D-1	-	-	CC	LC17A	-	-	1861	-	-
1998-010	2450863.08	1998 Feb 18 1358:09	Delta 7920-10C	-	D254	Iridium MS-7	Iridium MS-7	-	-	V	SLC2W	-	-	1337	-	-
1998-019	2450902.75	1998 Mar 30 0602:46	Delta 7920-10C	-	D255	Iridium MS-8	Iridium MS-8	-	-	V	SLC2W	-	-	845	-	-
1998-023	2450928.44	1998 Apr 24 2238:34	Delta 7420-10C	-	D256	Globalstar 5-8	Globalstar D-2	-	-	CC	LC17A	-	-	1929	-	-
1998-032	2450951.39	1998 May 17 2116:56	Delta 7920-10C	-	D257	Iridium MS-9	Iridium MS-9	-	-	V	SLC2W	-	-	786	-	-
1998-035	2450974.52	1998 Jun 10 0035:01	Delta 7925-9.5	-	D258	Thor III	Thor 3	-	-	CC	LC17A	-	-	37244	-	-
1998-F03	2451052.55	1998 Aug 27 0117:00	Delta 8930	-	D259	Galaxy X	Galaxy X	-	-	CC	LC17B	-	-	40?	-	-
1998-051	2451065.38	1998 Sep 8 2113	Delta 7920-10C	-	D260	Iridium MS-10	Iridium MS-10	-	-	V	SLC2W	-	-	792	-	-
1998-061	2451111.01	1998 Oct 24 1208:01	Delta 7326-9.5	-	D261	Deep Space 1	Deep Space 1	-	-	CC	SLC17A	-	-	150000	-	-
1998-066	2451124.07	1998 Nov 6 1337:52	Delta 7920-10C	-	D262	Iridium MS-11	Iridium MS-11	-	-	V	SLC2W	-	-	784	-	-
1998-068	2451140.50	1998 Nov 22 2354:00	Delta 7925-9.5	-	D263	BONUM-1	BONUM-1	-	-	CC	SLC17B	-	-	36915	-	-
1998-073	2451159.28	1998 Dec 11 1845:52	Delta 7425-9.5	-	D264	Mars Climate Orbiter	MCO	-	-	CC	SLC17A	-	-	150000	-	-
1999-001	2451182.35	1999 Jan 3 2021:10	Delta 7425-9.5	-	D265	Mars Polar Lander	MPL	-	-	CC	SLC17B	-	-	150000	-	-
1999-003	2451217.38	1999 Feb 7 2104:15	Delta 7426-9.5	-	D266	Stardust	Stardust	-	-	CC	SLC17A	-	-	150000	-	-
1999-008	2451232.94	1999 Feb 23 1029:55	Delta 7920-10	-	D267	ARGOS	P91-1	-	-	V	SLC2W	-	-	866	-	-
1999-020	2451284.27	1999 Apr 15 1832:00	Delta 7920-10	-	D268	Landsat 7	Landsat 7	-	-	V	SLC2W	-	-	873	-	-
1999-024	2451303.54	1999 May 5 0100:00	Delta 8930	-	D269	Orion 3	Orion 3	-	-	CC	SLC17B	-	-	2529	-	-
1999-031	2451340.08	1999 Jun 10 1348:43	Delta 7420-10C	-	D270	Globalstar-3	Globalstar D-3	-	-	CC	SLC17B	-	-	2102	-	-
1999-035	2451354.16	1999 Jun 24 1544:00	Delta 7320-10	-	D271	FUSE	Far UV Spec. Explorer	-	-	CC	SLC17A	-	-	919	-	-
1999-037	2451369.87	1999 Jul 10 0845:37	Delta 7420-10C	-	D272	Globalstar-4	Globalstar D-4	-	-	CC	SLC17B	-	-	2151	-	-
1999-041	2451384.82	1999 Jul 25 0746:03	Delta 7420-10C	-	D273	Globalstar-5	Globalstar D-5	-	-	CC	SLC17A	-	-	2129	-	-
1999-043	2451407.69	1999 Aug 17 0437:41	Delta 7420-10C	-	D274	Globalstar-6	Globalstar D-6	-	-	CC	SLC17B	-	-	2165	-	-
1999-055	2451459.04	1999 Oct 7 1251:01	Delta 7925-9.5	-	D275	USA 145 (GPS IIR-3)	Navstar GPS SVN 46	-	-	CC	SLC17A	-	-	21212	-	-
2000-008	2451583.39	2000 Feb 8 2124:00	Delta 7420-10C	-	D276	Globalstar-7	Globalstar D-7	-	-	CC	SLC17B	-	-	1748	-	-
2000-017	2451629.36	2000 Mar 25 2034:43	Delta 7326-9.5	-	D277	IMAGE	IMAGE	-	-	V	SLC2W	-	-	46468	-	-
2000-025	2451675.58	2000 May 11 0148:00	Delta 7925-9.5	-	D278	USA 150 (GPS IIR-4)	Navstar GPS SVN 51	-	-	CC	SLC17A	-	-	20399	-	-
2000-040	2451741.89	2000 Jul 16 0917:00	Delta 7925-9.5	-	D279	USA 151 (GPS IIR-5)	Navstar GPS SVN 44	-	-	CC	SLC17A	-	-	21226	-	-
2000-048	2451779.96	2000 Aug 23 1105:02	Delta 8930	-	D280	DM-F3	DM-F3	-	-	CC	SLC17B	-	-	20655	-	-
2000-071	2451859.22	2000 Nov 10 1714:02	Delta 7925-9.5	-	D281	USA 154 (GPS IIR-6)	Navstar GPS SVN 41	-	-	CC	SLC17A	-	-	20575	-	-
2000-075	2451870.27	2000 Nov 21 1824:25	Delta 7320-10	-	D282	EO-1/SAC-C	Earth Orbiter 1	-	-	V	SLC2W	-	-	1806	-	-
2001-004	2451939.83	2001 Jan 30 0755:01	Delta 7925-9.5	-	D283	USA 156 (GPS IIR-7)	Navstar GPS SVN 54	-	-	CC	SLC17A	-	-	21097	-	-
2001-013	2452007.13	2001 Apr 7 1502:22	Delta 7925-9.5	-	D284	2001 Mars Odyssey	2001 Mars Odyssey	-	-	CC	SLC17A	-	-	150000	-	-
2001-020	2452048.24	2001 May 18 1745:01	Delta 7925-9.5	-	D285	USA 158 (GeoLITE)	GeoLITE	NROL-17	-	CC	SLC17B	-	-	36284	-	-
2001-027	2452091.32	2001 Jun 30 1946:46	Delta 7425-10	-	D286	MAP	Microwave Anisotropy Pro	-	-	CC	SLC17B	-	-	150000	-	-
2001-034	2452130.18	2001 Aug 8 1613:40	Delta 7326-9.5	-	D287	Genesis	Genesis	-	-	CC	SLC17A	-	-	150000	-	-
2001-047	2452201.29	2001 Oct 18 1851:26	Delta 7320-10	-	D288	QuickBird 2	QuickBird	-	-	V	SLC2W	-	-	480	-	-
2001-055	2452251.13	2001 Dec 7 1507:35	Delta 7920-10	-	D289	Jason/TIMED	Jason	-	-	V	SLC2W	-	-	1357	-	-
2002-005	2452317.24	2002 Feb 11 1743:44	Delta 7920-10C	-	D290	Iridium IS-1	Iridium IS-1	-	-	V	SLC2W	-	-	783	-	-
2002-022	2452398.91	2002 May 4 0954:58	Delta 7920-10L	-	D291	Aqua	EOS PM-1	-	-	V	SLC2W	-	-	712	-	-
2002-034	2452458.78	2002 Jul 3 0647:41	Delta 7425-9.5	-	D292	CONTOUR	Contour	-	-	CC	SLC17A	-	-	150000	-	-
2003-002	2452652.53	2003 Jan 13 0045:00	Delta 7320-10	-	D294	ICESAT/Chipsat	Icesat	-	-	V	SLC2W	-	-	602	-	-
2003-005	2452669.25	2003 Jan 29 1806:00	Delta 7925-9.5	-	D295	USA 166 (GPS IIR-8)	Navstar GPS SVN 56	-	-	CC	SLC17B	-	-	20518	-	-
2003-010	2452730.42	2003 Mar 31 2209:01	Delta 7925-9.5	-	D297	USA 168 (GPS IIR-9)	Navstar GPS SVN 45	-	-	CC	SLC17A	-	-	21107	-	-
2003-027	2452801.25	2003 Jun 10 1758:47	Delta 7925-9.5	-	D298	MER-A	Mars Exploration Rover 2	-	-	CC	SLC17A	-	-	150000	-	-
2003-032	2452828.64	2003 Jul 8 0318:15	Delta 7925H	-	D299	MER-B	Mars Exploration Rover 1	-	-	CC	SLC17B	-	-	150000	-	-
2003-038	2452876.73	2003 Aug 25 0535:39	Delta 7920H	-	D300	SIRTF	SIRTF	-	-	CC	SLC17B	-	-	150000	-	-
2003-058	2452994.84	2003 Dec 21 0805:00	Delta 7925-9.5	-	D302	USA 175 (GPS IIR-10)	Navstar GPS SVN 47	-	-	CC	SLC17A	-	-	20411	-	-
2004-009	2453085.25	2004 Mar 20 1753:00	Delta 7925-9.5	-	D303	USA 177 (GPS IIR-11)	Navstar GPS SVN 59	-	-	CC	SLC17B	-	-	20496	-	-
2004-014	2453116.21	2004 Apr 20 1657:24	Delta 7920-10C	-	D304	GP-B	GP-B	-	-	V	SLC2W	-	-	646	-	-
2004-023	2453180.45	2004 Jun 23 2254:00	Delta 7925-9.5	-	D305	USA 178 (GPS IIR-12)	Navstar GPS SVN 60	-	-	CC	SLC17B	-	-	20580	-	-
2004-026	2453201.92	2004 Jul 15 1001:59	Delta 7920-10L	-	D306	Aura	EOS Chem-1	-	-	V	SLC2W	-	-	705	-	-
2004-030	2453220.76	2004 Aug 3 0615:57	Delta 7925H	-	D307	Messenger	MESSENGER	-	-	CC	SLC17B	-	-	150000	-	-
2004-045	2453315.74	2004 Nov 6 0539:00	Delta 7925-9.5	-	D308	USA 180 (GPS IIR-13)	Navstar GPS SVN 61	-	-	CC	SLC17B	-	-	20736	-	-
2004-047	2453330.22	2004 Nov 20 1716:01	Delta 7320-10C	-	D309	Swift	Swift GRB Explorer	-	-	CC	SLC17A	-	-	604	-	-
2005-001	2453383.28	2005 Jan 12 1847:08	Delta 7925-9.5	-	D311	Deep Impact	Deep Impact	-	-	CC	SLC17B	-	-	150000	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2005-018	2453510.93	2005 May 20 1022:01	Delta 7320-10C	-	D312	NOAA N	NOAA N	-	-	V	SLC2W	-	-	867	-	-
2005-038	2453639.65	2005 Sep 26 0337:00	Delta 7925-9.5	-	D313	USA 183 (GPS IIRM-1)	Navstar GPS SVN 53	-	-	CC	SLC17A	-	-	20554	-	-
2006-016	2453853.92	2006 Apr 28 1002:16	Delta 7420-10C	-	D314	Calipso/Cloudsat	Cloudsat	-	-	V	SLC2W	-	-	710	-	-
2006-024	2453908.43	2006 Jun 21 2215	Delta 7925-9.5	-	D316	USA 187-189 (MITEX)	MITEX OSC satellite	-	-	CC	SLC17A	-	-	36334	-	-
2006-042	2454004.28	2006 Sep 25 1850	Delta 7925-9.5	-	D318	USA 190 (GPS IIRM-2)	Navstar GPS SVN 52	-	-	CC	SLC17A	-	-	20471	-	-
2006-047	2454034.54	2006 Oct 26 0052:00	Delta 7925-10L	-	D319	STEREO A/B	STEREO Ahead	-	-	CC	SLC17B	-	-	150000	-	-
2006-052	2454057.30	2006 Nov 17 1912:00?	Delta 7925-9.5	-	D321	USA 192 (GPS IIRM-3)	Navstar GPS SVN 58	-	-	CC	SLC17A	-	-	20412	-	-
2006-057	2454084.38	2006 Dec 14 2100:00	Delta 7920-10C	-	D322	USA 193	NROL-21	NROL-21	-	V	SLC2W	-	-	374	-	-
2007-004	2454149.46	2007 Feb 17 2301:00	Delta 7925-10C	-	D323	THEMIS	THEMIS P5	-	-	CC	SLC17B	-	-	150000	-	-
2007-023	2454259.61	2007 Jun 8 0234:00	Delta 7420-10C	-	D324	COSMO 1	COSMO-Skymed	-	-	V	SLC2W	-	-	626	-	-
2007-034	2454316.89	2007 Aug 4 0926:34	Delta 7925-9.5	-	D325	Mars Phoenix	Phoenix Lander	-	-	CC	SLC17A	-	-	150000	-	-
2007-041	2454362.27	2007 Sep 18 1835:00	Delta 7920-10C	-	D326	WorldView-1	WorldView-1	-	-	V	SLC2W	-	-	498	-	-
2007-043	2454370.98	2007 Sep 27 1134:00	Delta 7925H	-	D327	Dawn	Dawn	-	-	CC	SLC17B	-	-	150000	-	-
2007-047	2454391.02	2007 Oct 17 1223:00	Delta 7925-9.5	-	D328	USA 196 (GPS IIRM-4)	Navstar GPS SVN 55	-	-	CC	SLC17A	-	-	20563	-	-
2007-059	2454443.61	2007 Dec 9 0231:42	Delta 7420-10C	-	D330	COSMO 2	COSMO-Skymed 2	-	-	V	SLC2W	-	-	642	-	-
2007-062	2454455.34	2007 Dec 20 2004:00	Delta 7925-9.5	-	D331	USA 199 (GPS IIRM-5)	Navstar GPS SVN 57	-	-	CC	SLC17A	-	-	20369	-	-
2008-012	2454540.76	2008 Mar 15 0610	Delta 7925-9.5	-	D332	USA 201 (GPS IIRM-6)	Navstar GPS SVN 48	-	-	CC	SLC17A	-	-	20622	-	-
2008-029	2454629.17	2008 Jun 11 1605:01	Delta 7920H	-	D333	GLAST	GLAST	-	-	CC	SLC17B	-	-	588	-	-
2008-032	2454637.82	2008 Jun 20 0746:25	Delta 7320-10C	-	D334	Jason-2	Jason-2	-	-	V	SLC2W	-	-	4372	-	-
2008-042	2454716.29	2008 Sep 6 1850:57	Delta 7420-10C	-	D335	GeoEye-1	GeoEye-1	-	-	V	SLC2W	-	-	688	-	-
2008-054	2454764.60	2008 Oct 25 0228:25	Delta 7420-10C	-	D336	COSMO 3	COSMO-Skymed 3	-	-	V	SLC2W	-	-	635	-	-
2009-005	2454868.93	2009 Feb 6 1022:00	Delta 7320-10C	-	D338	NOAA N'	NOAA N'	-	-	V	SLC2W	-	-	867	-	-
2009-011	2454897.66	2009 Mar 7 0349:57	Delta 7925-10L	-	D339	Kepler	Kepler	-	-	CC	SLC17B	-	-	150000	-	-
2009-014	2454914.86	2009 Mar 24 0834:00	Delta 7925-9.5	-	D340	USA 203 (GPS IIRM-7)	Navstar GPS SVN 49	-	-	CC	SLC17A	-	-	20505	-	-
2009-023	2454957.35	2009 May 5 2024:26	Delta 7920-10C	-	D341	USA 205	STSS Adv Tech Risk Reduc	-	-	V	SLC2W	-	-	902	-	-
2009-043	2455060.94	2009 Aug 17 1035:00	Delta 7925-9.5	-	D343	USA 206 (GPS IIRM8)	Navstar GPS SVN 50	-	-	CC	SLC17A	-	-	20388	-	-
2009-052	2455100.01	2009 Sep 25 1220:00	Delta 7920-10C	-	D344	USA 208/USA 209	STSS 1	-	-	CC	SLC17B	-	-	1378	-	-
2009-055	2455113.29	2009 Oct 8 1851:01	Delta 7920-10C	-	D345	WorldView-2	WorldView-2	-	-	V	SLC2W	-	-	769	-	-
2009-071	2455180.09	2009 Dec 14 1409:33	Delta 7320-10C	-	D347	WISE	Wide Field IR Explorer	-	-	V	SLC2W	-	-	11110	-	-
2010-060	2455506.60	2010 Nov 6 0220:03	Delta 7420-10C	-	D350	COSMO 4	COSMO-Skymed 4	-	-	V	SLC2W	-	-	632	-	-
2011-024	2455723.10	2011 Jun 10 1420:13	Delta 7320-10C	-	D354	SAC-D	SAC-D	-	-	V	SLC2W	-	-	660	-	-
2011-046	2455815.05	2011 Sep 10 1308:52	Delta 7920H	-	D356	GRAIL-A/GRAIL-B	GRAIL A	-	-	CC	SLC17B	-	-	150000	-	-
2011-061	2455862.91	2011 Oct 28 0948:02	Delta 7920-10C	-	D357	NPP	NPOESS Prep Project	-	-	V	SLC2W	-	-	834	-	-
2014-035	2456840.91	2014 Jul 2 0956:23	Delta 7320-10C	-	D367	OCO-2	OCO-2	-	-	V	SLC2W	-	-	10148	-	-
2015-003	2457054.10	2015 Jan 31 1422:00	Delta 7320-10C	-	D370	SMAP	SMAP	-	-	V	SLC2W	-	-	687	-	-
2017-073	2458075.91	2017 Nov 18 0947:36	Delta 7920-10C	-	D378	NOAA-20	JPSS-1	-	-	V	SLC2W	-	-	828	-	-
2018-070	2458377.04	2018 Sep 15 1302	Delta 7420-10C	-	D381	ICESAT-2	ICESAT-2	-	-	V	SLC2W	-	-	488	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-A06	2435864.53	1957 Jan 26 0045?	Thor DM-18	-	101	0.000	AFBMD/6555A	MF	U	-	Test	Wire	CBMO	-
1957-A28	2435948.69	1957 Apr 20 0431	Thor DM-18	-	102	0.000	AFBMD/6555A	MF	U	-	Test	CteeSA1959	CMBO	-
1957-A41	2435980.71	1957 May 22 0500?	Thor DM-18	-	103	0.000	AFBMD/6555A	ME	-	-	Test	Wire	CMBO	-
1957-A89	2436081.34	1957 Aug 30 2010	Thor DM-18	-	104	0.000	AFBMD/6555A	MF	U	-	Test	MilwaukeeSen570831	CBMO	-
1957-S111	2436102.10	1957 Sep 20 1425	Thor DM-18	-	105	0.000	AFBMD/6555A	MS	-	-	Test	UPI	CBMO	-
1957-A116	2436115.22	1957 Oct 3 1713?	Thor DM-18	-	107	0.000	AFBMD/6555A	MF	U	-	Test	PH	CMBO	-
1957-S120	2436123.19	1957 Oct 11 1633	Thor DM-18	-	108	0.000	AFBMD/6555A	MS	-	-	Test	AP	CMBO	-
1957-S144	2436136.19	1957 Oct 24 1638	Thor DM-18	-	109	0.000	AFBMD/6555A	MS	-	-	Test	Wire	CMBO	-
1957-S173	2436180.42	1957 Dec 7 2211	Thor DM-18	-	112	0.000	AFBMD/6555A	MS	-	-	Test	PH	CMBO	-
1957-S182	2436192.33	1957 Dec 19 1957	Thor DM-18	-	113	0.000	AFBMD/6555A	MS	-	-	Test	Wire571220	CMBO	-
1958-A06	2436232.34	1958 Jan 28 2016	Thor DM-18	-	114	0.000	AFBMD/6555A	MF	U	-	Test	INS	CBMO	-
1958-A13	2436263.05	1958 Feb 28 1308	Thor DM-18	-	120	0.000	AFBMD/6555A	MF	U	-	Test	Wire/CBMO	-	-
1958-A33	2436313.06	1958 Apr 19 1330	Thor DM-18	-	121	0.000	AFBMD/6555A	MF	U	-	Test	CBMO/UPI	-	-
1958-S303	2436317.51	1958 Apr 24 0010	Thor Able	-	116	0.000	AFBMD/6555A	MF	U	-	Reentry Test	Thor/Wire	-	-
1958-S79	2436359.39	1958 Jun 4 2117	Thor DM-18	-	115	0.000	AFBMD/6555A	MS	-	-	Test	CBMO/UPI	-	-
1958-S84	2436368.13	1958 Jun 13 1506	Thor DM-18	-	122	0.000	AFBMD/6555A	MS	-	-	Test	CBMO/Wire	-	-
1958-S97	2436394.62	1958 Jul 10 0249	Thor Able	-	118	0.000	AFBMD/6555A	MS	-	-	Reentry Test	Wire	Thor	-
1958-S100	2436396.77	1958 Jul 12 0636	Thor DM-18	-	123	0.000	AFBMD/6555A	MS	-	-	Test	CBMO/Wire	Wire	-
1958-S107	2436408.43	1958 Jul 23 2213	Thor Able	-	119	0.000	AFBMD/6555A	MS	-	-	Reentry Test	Thor/Wire	-	-
1958-A82	2436410.78	1958 Jul 26 0640	Thor DM-18	-	126	0.000	AFBMD/6555A	MF	U	-	Test	CBMO/Wire	-	-
1958-S135	2436422.35	1958 Aug 6 2024	Thor DM-18	-	117	0.000	AFBMD	MS	-	-	Test	UPI/Ulrich	CBMO	-
1958-F09	2436433.01	1958 Aug 17 1218	Thor Able I	-	127	0.038	AFBMD	OF	S1P	G	Sat EEO E	NASA-5-25-59W-V3	-	T+1:17 exploded
1958 ETA	2436487.86	1958 Oct 11 0842:13	Thor Able I	-	130	0.038	AFBMD	OS75	S2U*	G	Sat EEO E	NASA-5-25-59W-V3	-	Early S2 cutoff
1958-S251	2436512.87	1958 Nov 5 0853	Thor DM-18A	-	138	0.000	AFBMD	MS	-	-	Test	Thor/Wire	-	-
1958-F19	2436515.81	1958 Nov 8 0730:21	Thor Able I	-	129	0.038	AFBMD	OF	S3I	G	Sat EEO E	NASA-5-25-59W-V3	-	No third stage burn
1958-S269	2436533.88	1958 Nov 26 0909	Thor DM-18A	-	140	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1958-S279	2436543.53	1958 Dec 6 0041	Thor DM-18A	-	145	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1958-S292	2436554.49	1958 Dec 16 2344:45	Thor DM-18A	-	151	0.000	AFBMD	MS	-	-	OT	VCR	-	-
1958-S288	2436554.67	1958 Dec 17 0400	Thor DM-18A	-	146	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1958-A172	2436568.58	1958 Dec 31 0202	Thor DM-18A	-	149	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	-	-
1959-E01	2436589.50	1959 Jan 21	Thor Agena A	-	160/1019	0.000	AFBMD	OE	AL	G	Sat LEO A	NRO3E24	-	Accidental Agena sep
1959-S291	2436591.71	1959 Jan 23 0509	Thor Able II	-	128	0.000	AFBMD	MF	U	-	Reentry Test	Wire	Thor	-
1959-S12	2436599.50	1959 Jan 30 2353	Thor DM-18A	-	154	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1959-S20	2436627.83	1959 Feb 28 0758	Thor Able II	-	131	0.000	AFBMD	MS	-	-	Reentry Test	FresnoBee590228	Thor	-
1959 BET	2436628.41	1959 Feb 28 2149:16	Thor Agena A	-	163/1022	0.668	AFBMD	OF	S2U	G	Sat LEO A	NRO2D4	VCR	Probably did not orbit
1959-S34	2436648.76	1959 Mar 21 0619	Thor Able II	-	132	0.000	AFBMD	MS	-	-	Test	Wire	Thor	-
1959-S35	2436649.54	1959 Mar 22 0058	Thor DM-18A	-	158	0.000	AFBMD	MS	-	-	Test	OaklandTrib590322	CBMO	-
1959-S37	2436654.67	1959 Mar 27 0402	Thor DM-18A	-	162	0.000	AFBMD	MS	-	-	Test	AP	CBMO	-
1959-S45	2436666.77	1959 Apr 8 0635	Thor Able II	-	133	0.000	AFBMD	MS	-	LRL/Freden,White	Reentry Test/Particles	Wire	PRL3,9	-
1959 GAM	2436672.39	1959 Apr 13 2118:39	Thor Agena A	-	170/1018	0.788	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1959-S49	2436675.37	1959 Apr 16 2046	Thor DM-18A	-	161	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S55	2436681.73	1959 Apr 23 0529	Thor DM-18A	-	176	0.000	AFBMD	MS	-	-	Test	AndersonDlyBul590423	CBMO	-
1959-S56	2436683.71	1959 Apr 25 0505	Thor DM-18A	-	164	0.000	AFBMD	MS	-	-	Test	AP/Ulrich	CBMO	-
1959-S68	2436701.23	1959 May 12 1735	Thor DM-18A	-	187	0.000	AFBMD	MS	-	-	Test	AP	CBMO	-
1959-S73	2436709.78	1959 May 21 0640	Thor Able II	-	135	0.000	AFBMD	MS	-	-	Reentry Test	TroyTimesRec590521	MT60-2544	-
1959-S74	2436711.61	1959 May 23 0242	Thor DM-18A	-	184	0.000	AFBMD	MS	-	-	Test	TucsonDlyCit590523	CBMO	-
1959-F02	2436723.34	1959 Jun 3 2009:20	Thor Agena A	-	174/1020	0.829	AFBMD	OF	S2U	G	Sat LEO A	NRO3E24	VCR	Depleted
1959-S85	2436730.78	1959 Jun 11 0644	Thor Able II	-	137	0.000	AFBMD	MS	-	-	Reentry Test	Thor/Wire	-	-
1959-A100	2436736.41	1959 Jun 16 2145	Thor DM-18A	-	191	0.000	RAF	MF	U	-	Test	VCR	-	-
1959-U01	2436745.45	1959 Jun 25 2247:45	Thor Agena A	-	179/1023	0.270	AFBMD	OF	S2U	G	Sat LEO A	NRO3E3	VCR	Underburn
1959-S96	2436745.64	1959 Jun 26 0318	Thor DM-18A	-	198	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	EST
1959-S99	2436749.61	1959 Jun 30 0237	Thor DM-18A	-	194	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1959-A119	2436770.81	1959 Jul 21 0733	Thor DM-18A	-	203	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	-	-
1959-S124	2436774.03	1959 Jul 24 1247	Thor DM-18A	-	202	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1959-S132	2436784.40	1959 Aug 3 2141	Thor DM-18A	-	175	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S133	2436786.62	1959 Aug 6 0248	Thor DM-18A	-	208	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1959 DEL	2436788.10	1959 Aug 7 1424:20	Thor Able III	-	134	0.042	AFBMD	OS	-	G	Sat HEO O	RAE/PSC	-	-
1959 EPS	2436794.29	1959 Aug 13 1900:08	Thor Agena A	-	192/1029	0.870	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1959-S141	2436794.88	1959 Aug 14 0900?	Thor DM-18A	-	204	0.000	AFBMD	MS	-	-	Test	CBMO	-	-
1959-A138	2436795.32	1959 Aug 14 1936:04	Thor DM-18A	-	190	0.000	RAF	MF	U	-	Test	SAC7383	-	-
1959 ZET	2436800.31	1959 Aug 19 1924:44	Thor Agena A	-	200/1028	0.810	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1959-S152	2436808.03	1959 Aug 27 1246	Thor DM-18A	-	216	0.000	AFBMD	MS	-	-	Test	Ulrich	CBMO	-
1959-S169	2436823.75	1959 Sep 12 0603	Thor DM-18A	-	217	0.000	AFBMD	MS	-	-	Test	Wire	CBMO	EST
1959-F08	2436829.11	1959 Sep 17 1434	Thor Able II	M1	136	0.120	AFBMD	OF	S3I	G	Sat LEO O	SanMateoTimes590917	-	No ignition
1959-S177	2436829.38	1959 Sep 17 2109	Thor DM-18A	-	228	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S184	2436834.25	1959 Sep 22 1800	Thor DM-18A	-	222	0.000	AFBMD	MS	-	-	Ionos/Meteorites	CBMO	-	-
1959-S198	2436848.20	1959 Oct 6 1641	Thor DM-18A	-	235	0.000	AFBMD	MS	-	-	Meteorites	CBMO/Wire	-	-
1959-S200	2436848.27	1959 Oct 6 1826	Thor DM-18A	-	239	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S210	2436855.68	1959 Oct 14 0415	Thor DM-18A	-	221	0.000	AFBMD	MS	-	-	Test	MT60-2544/Wire	CBMO	-
1959-S217	2436863.46	1959 Oct 21 2257	Thor DM-18A	-	220	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S224	2436870.59	1959 Oct 29 0212	Thor DM-18A	-	230	0.000	AFBMD	MS	-	-	Meteorites	CBMO/Wire	-	-
1959-S231	2436876.67	1959 Nov 4 0358	Thor DM-18A	-	238	0.000	AFBMD	MS	-	-	Meteorites	Ulrich	CBMO	-
1959 KAP	2436880.35	1959 Nov 7 2028:41	Thor Agena A	-	206/1051	0.920	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1959-S239	2436885.31	1959 Nov 12 1924	Thor DM-18A	-	181	0.000	RAF	MS	-	-	Test	VCR	-	-
1959-S243	2436892.54	1959 Nov 20 0056	Thor DM-18A	-	244	0.000	AFBMD	MS	-	-	Test	Wire	CBMO	-
1959 LAM	2436893.31	1959 Nov 20 1925:24	Thor Agena A	-	212/1050	0.835	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1959-S260	2436904.21	1959 Dec 1 1700?	Thor DM-18A	-	254	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1959-A200	2436904.73	1959 Dec 2 0529	Thor DM-18A	-	265	0.000	RAF	MF	U	-	OT	VCR	-	-
1959-A205	2436917.59	1959 Dec 15 0214	Thor DM-18A	-	185	0.000	RAF	MF	U	-	Test	VCR	-	-
1959-S271	2436920.26	1959 Dec 17 1818	Thor DM-18A	-	255	0.000	AFBMD	MS	-	-	Meteorites	Ulrich	CBMO	-
1960-S11	2436948.19	1960 Jan 14 1635	Thor DM-18C	-	256	0.000	AFBMD	MS	-	-	Test/Wire	CBMO	-	-
1960-S18	2436955.34	1960 Jan 21 2010	Thor DM-18A	-	215	0.000	RAF	MS	-	-	Test	VCR	-	-
1960-F01	2436969.29	1960 Feb 4 1851:45	Thor Agena A	-	218/1052	0.330	AFBMD	OF	S2G	G	Sat LEO A	NRO3E24	VCR	Early MECO, lost att.
1960-S32	2436974.22	1960 Feb 9 1711	Thor DM-18C	-	259	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	-	-
1960-F02	2436984.34	1960 Feb 19 2015:14	Thor Agena A	-	223/1054	0.330	AFBMD	OF	S1G	G	Sat LEO A	NRO3E24	VCR	Pitch oscillation
1960-S43	2436994.17	1960 Feb 29 1600	Thor DM-18C	-	263	0.000	AFBMD	MS	-	-	Test	Ulrich	CBMO	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S46	2436996.34	1960 Mar 2 2006	Thor DM-18A	-	272	0.000	RAF	MS	-	-	OT	VCR	-	-
1960 ALP	2437005.04	1960 Mar 11 1300:07	Thor Able IV	-	219	0.043	AFBMD	DS	-	-	Sat EEO E	NASA-PR60-145	-	-
1960 BET	2437025.99	1960 Apr 1 1140:09	Thor Able II	M1	148	0.124	AFBMD	OS	-	G	Sat LEO O	NASA-TR-R131	-	-
1960 GAM	2437038.00	1960 Apr 13 1202:36	Thor Ablestar	-	257/AB002	0.123	AFBMD	OS	-	G	Sat LEO O	RAE/PSC	-	-
1960 DEL	2437040.35	1960 Apr 15 2030:37	Thor Agena A	-	234/1055	0.781	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1960-F07	2437067.89	1960 May 13 0916:05	Thor Delta	-	144/D001	0.075	GSFC	OF	S2S	G	Sat LEO O	TR-1022	-	Lost att, no S2/S3 sep
1960 ETA	2437107.75	1960 Jun 22 0554	Thor Ablestar	-	281/AB003	0.119	AFBMD	OS	-	G	Sat LEO O	SpaceWorld6111-33	-	-
1960-S139	2437108.48	1960 Jun 22 2326	Thor DM-18A	-	233	0.000	RAF	MS	-	-	OT	VCR	-	-
1960-F08	2437115.42	1960 Jun 29 2200:44	Thor Agena A	-	160/1053	0.330	AFBMD	OF	S2G	G	Sat LEO A	NRO3E24	VCR	Burn at wrong angle
1960 THE	2437157.36	1960 Aug 10 2037:54	Thor Agena A	-	231/1057	0.780	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1960 IOT	2437158.90	1960 Aug 12 0939:43	Thor Delta	-	270/D002	0.085	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1960 KAP	2437165.33	1960 Aug 18 1957:08	Thor Agena A	-	237/1056	0.810	AFBMD	OS	-	G	Sat LEO A	NRO3E24	VCR	-
1960-F10	2437165.33	1960 Aug 18 1958	Thor Ablestar	-	262/AB004	0.225	AFBMD	OF	S1	G	Sat LEO O	Wire	-	Failed T+2.5min
1960 MU	2437191.43	1960 Sep 13 2213:39	Thor Agena A	-	246/1058	0.810	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1960 NU	2437212.24	1960 Oct 4 1750	Thor Ablestar	-	293/AB005	0.225	AFBMD	OS	-	G	Sat LEO O	MR601010-40	-	-
1960-S315	2437219.41	1960 Oct 11 2153	Thor DM-18A	-	186	0.000	RAF	MS	-	-	OT	VCR	-	-
1960-F15	2437234.35	1960 Oct 26 2026:09	Thor Agena B	-	253/1061	0.320	AFBMD	OF	S1S	G	Sat LEO A	VCR	-	No separation, timer failed
1960 OMI	2437251.36	1960 Nov 12 2042:32	Thor Agena B	-	297/1062	1.037	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1960 PI	2437261.97	1960 Nov 23 1113:03	Thor Delta	-	245/D003	0.124	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1960-F16	2437269.33	1960 Nov 30 1950	Thor Ablestar	-	283/AB006	0.110	AFBMD	OF	S2	G	Sat LEO O	AP	-	Crashed in Cuba
1960 SIG	2437276.35	1960 Dec 7 2020:58	Thor Agena B	-	296/1103	1.040	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1960-S404	2437282.34	1960 Dec 13 2008	Thor DM-18A	-	267	0.000	RAF	MS	-	-	OT	VCR	-	-
1960 TAU	2437289.36	1960 Dec 20 2032	Thor Agena B	-	258/1101	0.936	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1961 EPS	2437348.35	1961 Feb 17 2025:02	Thor Agena B	-	298/1104	1.038	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1961 ZET	2437349.46	1961 Feb 18 2257:58	Thor Agena B	-	261/1102	0.936	AFBMD	OS	-	G	Sat LEO A	VCR	-	-
1961 ETA	2437352.66	1961 Feb 22 0345	Thor Ablestar	-	313/AB007	0.796	AFBMD	OS	-	G	Sat LEO O	SR2,609	-	-
1961 KAP	2437384.14	1961 Mar 25 1517:04	Thor Delta	-	295/D004	0.035	GSFC	OS	-	G	Sat DSO O	TR-1022	-	-
1961-S97	2437388.72	1961 Mar 30 0513:43	Thor DM-18A	-	243	0.000	RAF	MS	-	-	OT	VCR	-	-
1961-F02	2437389.36	1961 Mar 30 2034:43	Thor Agena B	-	300/1105	0.320	AFBMD	OF	S2G	G	Sat LEO A	VCR	-	Lost hydraulic pressure
1961 LAM	2437398.31	1961 Apr 8 1921:08	Thor Agena B	-	307/1106	1.051	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961-F05	2437459.39	1961 Jun 8 2116	Thor Agena B	-	302/1108	0.330	AFSSD	OF	S2I	G	Sat LEO A	VCR	-	No ignition
1961 XI	2437467.46	1961 Jun 16 2302:52	Thor Agena B	-	303/1107	1.114	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961-S183	2437471.50	1961 Jun 20 2354	Thor DM-18A	-	276	0.000	RAF	MS	-	-	OT	VCR	-	-
1961 OMI	2437479.68	1961 Jun 29 0423	Thor Ablestar	-	315/AB008	0.121	AFSSD	OS	-	G	Sat LEO O	NROC-HIST	Wire	-
1961 PI	2437488.48	1961 Jul 7 2329:48	Thor Agena B	-	308/1109	1.115	AFSSD	OS	-	G	Sat LEO A	HSRP-104	VCR	-
1961 RHO	2437492.93	1961 Jul 12 1025:06	Thor Delta	-	286/D005	0.131	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1961-F07	2437502.44	1961 Jul 21 2235:00	Thor Agena B	-	322/1110	0.330	AFSSD	OF	S1G	G	Sat LEO A	VCR	-	Flight control system f.
1961-F08	2437515.50	1961 Aug 4 0001	Thor Agena B	-	309/1111	0.330	AFSSD	OF	S2G	G	Sat LEO A	VCR	-	Hydraulics failed
1961 UPS	2437527.64	1961 Aug 16 0321:05	Thor Delta	-	312/D006	0.038	GSFC	OS	-	G	Sat HEO O	TR-1022	-	-
1961 PSI	2437542.33	1961 Aug 30 2000	Thor Agena B	-	323/1112	1.126	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961-S269	2437549.44	1961 Sep 6 2230	Thor DM-18A	-	165	0.000	RAF	MS	-	-	OT	VCR	-	-
1961 OME	2437555.33	1961 Sep 12 1959	Thor Agena B	-	310/1113	1.124	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961 A BET	2437560.38	1961 Sep 17 2100	Thor Agena B	-	324/1114	1.153	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961 A GAM	2437586.31	1961 Oct 13 1922	Thor Agena B	-	328/1115	1.148	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961-F10	2437596.31	1961 Oct 23 1923	Thor Agena B	-	329/1116	0.320	AFSSD	OF	S2G	G	Sat LEO A	VCR	-	Hydraulics failed
1961 A EPS	2437609.33	1961 Nov 5 2000:30	Thor Agena B	-	330/1117	1.163	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961 A ZET	2437619.39	1961 Nov 15 2122:46	Thor Agena B	-	326/1118	1.165	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1961 A ETA	2437619.43	1961 Nov 15 2226	Thor Ablestar	-	305/AB009?	0.194	AFSSD	OS	-	G	Sat LEO O	OneontaStar611116	RAE	-
1961-S410	2437639.56	1961 Dec 6 0130	Thor DM-18A	-	214	0.000	RAF	MS	-	-	OT	VCR	-	-
1961 A KAP	2437646.36	1961 Dec 12 2040:21	Thor Agena B	-	325/1119	1.300	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962-F01	2437678.40	1962 Jan 13 2141:02	Thor Agena B	-	327/1120	0.480	AFSSD	OF	S2G	G	Sat LEO A	VCR	-	Elec short at sep, tumbled
1962-S14	2437679.96	1962 Jan 15 1107:01	Thor DSV-2D	-	337	0.000	AFSSD	RS	-	GSFC/	Payload Test	TR-1022	-	-
1962-F02	2437688.90	1962 Jan 24 0930	Thor Ablestar	-	311/AB010	0.097	AFSSD	OF	S2P	G	Sat LEO O	FI620405-527	-	Nozzle ruptured
1962 BET	2437704.03	1962 Feb 8 1243:45	Thor Delta	-	317/D007	0.131	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1962 DEL	2437717.28	1962 Feb 21 1844	Thor Agena B	-	332/2301	1.089	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962 EPS	2437723.32	1962 Feb 27 1939:20	Thor Agena B	-	241/1123	1.247	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962 ZET	2437731.17	1962 Mar 7 1606:18	Thor Delta	-	301/D008	0.208	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1962-S72	2437743.48	1962 Mar 19 2328	Thor DM-18A	-	229	0.000	RAF	MS	-	-	OT	VCR	-	-
1962 LAM	2437772.54	1962 Apr 18 0053:47	Thor Agena B	-	331/1124	1.217	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962 OMI	2437781.25	1962 Apr 26 1800:16	Thor Delta	-	320/D009	0.062	GSFC	OS	-	G/OG	Sat LEO O	TR-1022	-	-
1962 RHO	2437783.52	1962 Apr 29 0030:12	Thor Agena B	-	333/1125	1.196	AFSSD	OS	-	G	Sat LEO A	VCR	NRO-WS117L-003	-
1962-S121	2437787.49	1962 May 2 2344:53	Thor DSV-2E	-	177	0.000	AFSSD	MS	-	-	Test	VCR	-	-
1962-F04	2437795.00	1962 May 10 1206	Thor Ablestar	-	314/AB011	0.161	AFSSD	OF	S2	G	Sat LEO O	Gatland1	-	Details unknown
1962 SIG	2437800.32	1962 May 15 1936	Thor Agena B	-	334/1126	1.074	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962 PHI	2437814.54	1962 May 30 0100:04	Thor Agena B	-	336/1128	1.242	AFSSD	OS	-	G	Sat LEO A	VCR	NRO-WS117L-009	-
1962 CHI	2437817.52	1962 Jun 2 0031:28	Thor Agena B	-	335/1127	1.229	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962-S161	2437819.91	1962 Jun 4 0944:17	Thor DSV-2E	-	199	0.000	AFSSD	MS	-	-	Nuclear Test	VCR	-	-
1962 OME	2437834.35	1962 Jun 18 2020	Thor Agena B	-	343/2312	1.145	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962-S193	2437834.52	1962 Jun 19 0030	Thor DM-18A	-	269	0.000	RAF	MS	-	-	OT	VCR	-	-
1962 A ALP	2437835.01	1962 Jun 19 1219:01	Thor Delta	-	321/D010	0.131	GSFC	OS	-	G	Sat LEO A	TR-1022	-	-
1962-A98	2437835.87	1962 Jun 20 0846:16	Thor DSV-2E	-	193	0.000	AFSSD	MF	U	-	Nuclear Test	VCR	DOMINIC	-
1962 A BET	2437838.52	1962 Jun 23 0030:47	Thor Agena B	-	339/1129	1.231	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 A GAM	2437843.55	1962 Jun 28 0109	Thor Agena D	-	340/1151	1.250	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962-S235	2437854.87	1962 Jul 9 0846:28	Thor DSV-2E	-	195	0.000	AFSSD	MS	-	-	Nuclear Test	VCR	-	-
1962 A EPS	2437855.86	1962 Jul 10 0835:05	Thor Delta	-	316/D011	0.077	GSFC	OS	-	G/C	Sat MEO O	TR-1022	-	-
1962-S245	2437863.90	1962 Jul 18 0930:12	Thor DSV-2D	-	338	0.000	AFSSD	RS	-	GSFC/	Payload Test	TR-1022	-	-
1962 A ETA	2437866.54	1962 Jul 21 0056:40	Thor Agena B	-	342/1130	1.236	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962-A115	2437871.88	1962 Jul 26 0913:53	Thor DSV-2E	-	180	0.000	AFSSD	MF	U	-	Nuclear Test	VCR	-	-
1962 A THE	2437873.52	1962 Jul 28 0030:09	Thor Agena B	-	347/1131	1.239	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 A KAP	2437878.51	1962 Aug 2 0017	Thor Agena D	-	344/1152	1.230	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1962 A SIG	2437905.54	1962 Aug 29 0100:36	Thor Agena D	-	349/1153	1.244	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 A UPS	2437909.36	1962 Sep 1 2039:09	Thor Agena B	-	348/1132	1.204	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 A CHI	2437925.49	1962 Sep 17 2346:18	Thor Agena B	-	350/1133	1.247	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 A PSI	2437925.87	1962 Sep 18 0853:08	Thor Delta	-	318/D012	0.129	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1962 B ALP	2437936.75	1962 Sep 29 0605	Thor Agena B	-	341/6101 (TA1)	1.045	LERC/AFSSD	OS	-	G/OG	Sat LEO O	VCR	-	-
1962 B BET	2437937.48	1962 Sep 29 2334:50	Thor Agena D	-	351/1154	1.246	AFSSD	OS	-	G	Sat LEO A	NRO3E88	VCR	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962 B GAM	2437940.42	1962 Oct 2 2211:30	Thor Delta A	-	345/D013	0.040	GSFC	OS	-	G	Sat HEO O	TR-1022	-	-
1962 B EPS	2437947.27	1962 Oct 9 1835:39	Thor Agena B	-	352/1134	1.147	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962-A171	2437953.89	1962 Oct 16 0914:38	Thor DSV-2E	-	156	0.000	AFSSD	MF	U	-	Nuclear Test	VCR	-	-
1962-S428	2437963.91	1962 Oct 26 0944:05	Thor DSV-2E	-	141	0.000	AFSSD	MS	-	-	Nuclear Test	VCR	-	-
1962 B KAP	2437964.18	1962 Oct 26 1614:39	Thor Agena D	-	353/1401	0.915	AFSSD	OS	-	G	Sat MEO A	SAMOS	VCR	-
1962 B LAM	2437965.47	1962 Oct 27 2315:01	Thor Delta A	-	346/D014	0.044	GSFC	OS	-	G	Sat HEO O	TR-1022	-	-
1962 B MU	2437968.84	1962 Oct 31 0808	Thor Ablestar	-	319/AB012	0.157	AFSSD	OS	-	G	Sat LEO O	Gatland1	-	-
1962-S453	2437970.00	1962 Nov 1 1154:48	Thor DSV-2E	-	226	0.000	AFSSD	MS	-	-	Nuclear Test	VCR	-	-
1962 B OMI	2437974.42	1962 Nov 5 2204:32	Thor Agena B	-	356/1136	1.250	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 B RHO	2437993.42	1962 Nov 24 2200:54	Thor Agena B	-	367/1135	1.296	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 B SIG	2438003.40	1962 Dec 4 2130:35	Thor Agena D	-	361/1155	1.276	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1962 B TAU	2438011.67	1962 Dec 13 0407	Thor Agena D	-	365/2351	1.083	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1962 B UPS	2438012.48	1962 Dec 13 2330:01	Thor Delta B	-	355/D015	0.078	GSFC	OS	-	G	Sat MEO O	TR-1022	-	-
1962 B PHI	2438013.39	1962 Dec 14 2126:07	Thor Agena D	-	368/1156	1.282	AFSSD	OS	-	G	Sat LEO A	VCR	NRO-WS117L-004	-
1963-002	2438037.38	1963 Jan 7 2109:49	Thor Agena D	-	369/1157	1.269	AFSSD	OS	-	G	Sat LEO A	NRO	VCR	-
1963-003	2438046.42	1963 Jan 16 2159	Thor Agena B	-	363/2313	1.176	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-004	2438074.73	1963 Feb 14 0535:08	Thor Delta B	-	358/D016	0.068	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1963-F02	2438089.41	1963 Feb 28 2148:30	Thor SLV-2A Agena D	-	354/1159	0.720	AFSSD	OF	SOI	G	Sat LEO A	SAMOS	VCR	Castor ft ignite
1963-F03	2438107.38	1963 Mar 18 2113:01	Thor SLV-2A Agena D	-	360/1164	0.826	AFSSD	OF	S2G	G	Sat LEO A	SAMOS	VCR	Roll control lost at sep
1963-007	2438121.46	1963 Apr 1 2301:00	Thor Agena D	-	376/1160	1.275	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-009	2438122.58	1963 Apr 3 0200:02	Thor Delta B	-	357/D017	0.184	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1963-F07	2438146.34	1963 Apr 26 2012:57	Thor Agena D	-	372/1411	0.542	AFSSD	OF	S2G	G	Sat LEO A	SAMOS	VCR	Horizon sensor issue
1963-013	2438156.98	1963 May 7 1138:03	Thor Delta B	-	366/D018	0.079	GSFC	OS	-	G/C	Sat MEO O	TR-1022	-	-
1963-016	2438168.43	1963 May 18 2221:36	Thor SLV-2A Agena D	-	364/1165	1.585	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1963-019	2438193.50	1963 Jun 12 2358:38	Thor SLV-2A Agena D	-	362/1161	1.528	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-021	2438196.10	1963 Jun 15 1429	Thor Agena D	-	378/2353	1.112	AFSSD	OF40	S2R	G	Sat LEO O	VCR	-	Restart failed
1963-024	2438199.91	1963 Jun 19 0950:01	Thor Delta B	-	359/D019	0.137	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1963-025	2438207.53	1963 Jun 27 0037:26	Thor SLV-2A Agena D	-	381/1166	1.573	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1963-027	2438210.44	1963 Jun 29 2230	Thor SLV-2A Agena B	-	380/2314	1.309	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-029	2438229.50	1963 Jul 19 0000:10	Thor Agena D	-	388/1412	1.233	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-031	2438237.11	1963 Jul 26 1433:00	Thor Delta B	-	370/D020	0.066	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1963-032	2438241.50	1963 Jul 31 0000:26	Thor SLV-2A Agena D	-	382/1167	1.584	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1963-034	2438266.52	1963 Aug 25 0029:58	Thor SLV-2A Agena D	-	377/1162	1.630	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1963-035	2438271.35	1963 Aug 29 2031:04	Thor SLV-2 Agena D	-	394/1169	1.171	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-M44	2438290.90	1963 Sep 18 0939	Thor DSV-2F	-	232	0.000	AFSSD	TS	-	-	Reentry Test	Wire	-	-
1963-037	2438296.46	1963 Sep 23 2300:00	Thor SLV-2A Agena D	-	383/1163	1.553	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1963-038	2438301.35	1963 Sep 28 2022	Thor Ablestar	2	375/AB013	0.128	AFSSD	OS	-	G	Sat LEO O	VCR	CR-68649	-
1963-042	2438332.39	1963 Oct 29 2119:04	Thor SLV-2A Agena D	-	386/1601	1.370	AFSSD	OS	-	G	Sat LEO A	SAMOS	VCR	-
1963-F14	2438343.35	1963 Nov 9 2027:54	Thor SLV-2 Agena D	-	400/1171	0.665	AFSSD	OF	S1G	G	Sat LEO A	VCR	NRO-WS117L-028	Lost flame shield,system overhea
1963-046	2438360.60	1963 Nov 27 0230:01	Thor Delta C	-	387/D021	0.063	GSFC	OS	-	G	Sat DSO SO	TR-1022	-	-
1963-048	2438361.39	1963 Nov 27 2115:40	Thor SLV-2 Agena D	-	406/1172	1.345	AFSSD	OS	-	G	Sat LEO A	VCR	NRO-WS117L-008	-
1963-049	2438369.41	1963 Dec 5 2151	Thor Ablestar	2	385/AB015	0.127	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1963-054	2438384.90	1963 Dec 21 0930:00	Thor Delta B	-	371/D022	0.122	GSFC	OS	-	G	Sat LEO O	FlashFlight22	TR-1022	-
1963-055	2438385.41	1963 Dec 21 2145:42	Thor SLV-2A Agena D	-	398/1168	1.370	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-001	2438406.34	1964 Jan 11 2007	Thor SLV-2A Agena D	-	390/2354	0.825	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-002	2438413.96	1964 Jan 19 1059:54	Thor SLV-2 Agena D	-	384/2303	0.100	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-003	2438416.39	1964 Jan 21 2114:59	Thor Delta B	-	373/D023	0.083	GSFC	OS	-	G	Sat MEO O	TR-1022	-	-
1964-004	2438420.08	1964 Jan 25 1359:04	Thor SLV-2 Agena B	-	397/6301 (TA2)	0.548	LERC/AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1964-S98	2438439.82	1964 Feb 14 0747	Thor DSV-2J	-	299/20002	0.000	AFSSD	MS	-	DAC/	Interceptor	P437	-	-
1964-008	2438441.40	1964 Feb 15 2138:23	Thor SLV-2A Agena D	-	389/1174	1.598	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-011	2438453.64	1964 Feb 28 0320	Thor SLV-2A Agena D	-	402/2316	1.401	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-S127	2438455.78	1964 Mar 1 0640	Thor DSV-2J	-	209/20006	0.000	10ADS	MS	-	-	Interceptor	P437	-	-
1964-F02	2438473.97	1964 Mar 19 1113:41	Thor Delta B	-	391/D024	0.054	GSFC	OF	S3U	G	Sat LEO O	TR-1022	-	Underburn
1964-M07	2438479.01	1964 Mar 24 1215	Thor DSV-2G	-	240	0.000	AFSSD	TF	U	-	Reentry Test	Desind	MR640330-16	-
1964-F04	2438479.43	1964 Mar 24 2222:48	Thor SLV-2A Agena D	-	396/1175	0.627	AFSSD	OF	S2G	G	Sat LEO A	VCR	NRO-WS117L-007	Power failure, lost attitude
1964-S220	2438506.76	1964 Apr 21 0615	Thor DSV-2J	-	290/20003	0.000	10ADS	MS	-	-	Interceptor	P437	-	-
1964-U03	2438507.28	1964 Apr 21 1850	Thor Ablestar	2	379/AB014	0.139	AFSSD	OF	S1G*	G	Sat LEO O	VCR	-	Bad commanding to Thor guidance
1964-022	2438513.47	1964 Apr 27 2323:43	Thor SLV-2A Agena D	-	395/1604	1.593	AFSSD	OS	-	G	Sat LEO A	VCR	NRO-WS117-002	-
1964-S269	2438543.81	1964 May 28 0732	Thor DSV-2J	-	227/20007	0.000	AFSSD	MF	U	-	Interceptor	P437	-	-
1964-027	2438551.46	1964 Jun 4 2259	Thor SLV-2A Agena D	-	403/1176	1.588	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-030	2438560.16	1964 Jun 13 1547	Thor SLV-2A Agena D	-	408/1606	1.320	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-031	2438564.71	1964 Jun 18 0456:08	Thor SLV-2 Agena D	-	407/2304	0.100	AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-032	2438566.47	1964 Jun 19 2318:07	Thor SLV-2A Agena D	-	410/1609	1.572	AFSSD	OS	-	G	Sat LEO A	PER	-	-
1964-035	2438579.50	1964 Jul 2 2359:56	Thor SLV-2A Agena D	-	409/2315	1.368	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-037	2438587.47	1964 Jul 10 2314:04	Thor SLV-2A Agena D	-	404/1177	1.600	AFSSD	OS	-	G	Sat LEO A	PER	-	-
1964-M19	2438599.15	1964 Jul 22 1539	Thor DSV-2G	-	250	0.000	AFSSD	TS	-	-	Reentry Test	Desind	SP-4005	-
1964-043	2438613.47	1964 Aug 5 2315:35	Thor SLV-2A Agena D	-	413/1605	1.641	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-047	2438627.01	1964 Aug 19 1215:02	Thor Delta D	-	417/D025	0.066	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1964-048	2438629.16	1964 Aug 21 1545	Thor SLV-2A Agena D	-	412/1603	1.325	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-052	2438635.83	1964 Aug 28 0756:57	Thor SLV-2 Agena B	-	399/6201 (TA3)	0.376	LERC/AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1964-056	2438653.45	1964 Sep 14 2253:43	Thor SLV-2A Agena D	-	405/1178	1.576	AFSSD	OS	-	G	Sat LEO A	PER	VCR	-
1964-060	2438672.66	1964 Oct 4 0345:00	Thor Delta C	-	392/D026	0.062	GSFC	OS	-	G	Sat HEO SO	TR-1022	-	-
1964-061	2438674.41	1964 Oct 5 2150:14	Thor SLV-2A Agena D	-	421/1170	1.590	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-063	2438675.21	1964 Oct 6 1704:21	Thor Ablestar	2	423/AB016	0.085	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1964-067	2438686.42	1964 Oct 17 2202:23	Thor SLV-2A Agena D	-	418/1179	1.637	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-M25	2438697.65	1964 Oct 29 0335	Thor DSV-2F	-	260	0.000	AFSSD	TS	-	-	Reentry Test	Thor/Wire	SP-4005	-
1964-071	2438702.40	1964 Nov 2 2130:20	Thor SLV-2A Agena D	-	420/1173	1.648	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-072	2438703.59	1964 Nov 4 0212:11	Thor SLV-2A Agena D	-	430/2317	1.526	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-S625	2438715.79	1964 Nov 16 0657	Thor DSV-2J	-	236	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1964-075	2438718.36	1964 Nov 18 2035:54	Thor SLV-2A Agena D	-	416/1180	1.675	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-M29	2438738.58	1964 Dec 9 0200	Thor DSV-2F	-	247	0.000	AFSSD	TS	-	-	Reentry Test	Desind	SP-4005	-
1964-083	2438742.51	1964 Dec 13 0008:10	Thor Ablestar	2	427/AB017	0.131	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1964-085	2438749.38	1964 Dec 19 2110:16	Thor SLV-2A Agena D	-	424/1607	1.585	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1964-086	2438750.88	1964 Dec 21 0900:03	Thor Delta C	-	393/D027	0.046	GSFC	OS	-	G	Sat HEO O	TR-1022	-	-
1964-087	2438751.30	1964 Dec 21 1908:56	Thor SLV-2A Agena D	-	425/2355	1.477	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-002	2438776.38	1965 Jan 15 2100:44	Thor SLV-2A Agena D	-	414/1608	1.585	AFSSD	OS	-	G	Sat LEO A	VCR	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-003	2438779.71	1965 Jan 19 0503:42	Thor MG-18	-	224	0.094	S4300	OS	-	G	Sat SSO O	VCR	-	-
1965-004	2438782.83	1965 Jan 22 0752:00	Thor Delta C	-	374/D028	0.140	GSFC	OS75	S2P	G	Sat SSO O	TR-1022	-	Late cutoff
1965-007	2438795.19	1965 Feb 3 1636:00	Thor Delta C	-	411/D029	0.236	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1965-M03	2438815.11	1965 Feb 23 1436	Thor DSV-2G	-	248	0.000	AFSSD	TS	-	-	Reentry Test	MR650301-12	-	-
1965-013	2438817.41	1965 Feb 25 2144:55	Thor SLV-2A Agena D	-	432/1611	1.585	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-016	2438829.27	1965 Mar 9 1829:47	Thor SLV-2 Agena D	-	419/2701	0.251	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1965-017	2438831.07	1965 Mar 11 1339:59	Thor Ablestar	2	440/AB018	0.072	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1965-021	2438837.70	1965 Mar 18 0443:46	Thor MG-18	-	306	0.050	S4300	OS	-	G	Sat SSO O	VCR	-	-
1965-026	2438845.38	1965 Mar 25 2111:17	Thor SLV-2A Agena D	-	429/1612	1.585	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-S216	2438855.81	1965 Apr 5 0720	Thor DSV-2J	-	155	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1965-028	2438857.49	1965 Apr 6 2347:50	Thor Delta D	-	426/D030	0.068	GSFC	OS	-	G	Sat GTO O	TR-1022	MR650412-12	-
1965-033	2438880.41	1965 Apr 29 2144:56	Thor SLV-2A Agena D	-	437/1614	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-037	2438899.25	1965 May 18 1802:18	Thor SLV-2A Agena D	-	438/1615	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-038	2438901.19	1965 May 20 1630:53	Thor Burner 1	-	282	0.072	S4300	OS	-	G	Sat SSO O	VCR	-	-
1965-042	2438910.00	1965 May 29 1200:00	Thor Delta C	-	441/D031	0.059	GSFC	OS	-	G	Sat DSO SO	TR-1022	-	-
1965-045	2438921.42	1965 Jun 9 2158:16	Thor SLV-2A Agena D	-	444/1613	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-048	2438936.44	1965 Jun 24 2235:29	Thor Ablestar	2	447/AB019	0.054	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1965-051	2438943.67	1965 Jul 2 0407:00	Thor Delta C	-	415/D032	0.129	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1965-055	2438958.75	1965 Jul 17 0555:01	Thor SLV-2A Agena D	-	422/2702	1.600	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-057	2438961.42	1965 Jul 19 2201:12	Thor SLV-2A Agena D	-	446/1617	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-065	2438986.42	1965 Aug 13 2211:24	Thor Ablestar	2	455/AB020	0.079	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1965-067	2438990.37	1965 Aug 17 2059:57	Thor SLV-2A Agena D	-	449/1618	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-F09	2438998.14	1965 Aug 25 1517:00	Thor Delta C	-	434/D033	0.282	GSFC	OF	S3G	G	Sat LEO O	TR-1022	-	Burn early and wrong attitude
1965-F10	2439006.33	1965 Sep 2 2000:16	Thor SLV-2 Agena D	-	401/1602	0.522	AFSSD	OF	S1G	G	Sat LEO O	VCR	-	Lost control due to high winds
1965-072	2439013.70	1965 Sep 10 0441:38	Thor Burner 1	-	213	0.072	S4300	OS	-	G	Sat SSO O	VCR	-	-
1965-074	2439026.40	1965 Sep 22 2131:14	Thor SLV-2A Agena D	-	458/1619	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-079	2439039.24	1965 Oct 5 1745:57	Thor SLV-2A Agena D	-	433/1616	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-081	2439048.05	1965 Oct 14 1311:55	Thor SLV-2A Agena D	-	435/6801 (TA4)	0.507	LERC/AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1965-086	2439062.39	1965 Oct 28 2117:12	Thor SLV-2A Agena D	-	439/1620	1.616	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-089	2439071.28	1965 Nov 6 1838:43	Thor Delta E	-	457/D034	0.176	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1965-098	2439093.70	1965 Nov 29 0448:47	Thor SLV-2 Agena B	-	453/6102 (TA5)	0.267	LERC/AFSSD	OS	-	G/G+OG	Sat LEO O	VCR	-	-
1965-S667	2439102.60	1965 Dec 8 0228	Thor DSV-2J	-	188/20011	0.000	AFSSD	TS	-	-	Interceptor	P437	-	-
1965-102	2439104.38	1965 Dec 9 2110:19	Thor SLV-2A Agena D	-	448/1621	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1965-105	2439110.81	1965 Dec 16 0731:21	Thor Delta E	-	460/D035	0.063	GSFC	DS	-	G	Sat EEO OE	TR-1022	-	-
1965-110	2439119.38	1965 Dec 24 2106:15	Thor SLV-2A Agena D	-	451/1610	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-F01	2439132.70	1966 Jan 7 0448:23	Thor Burner 1	-	251	0.072	S4300	OF	S1S	G	Sat SSO O	Wire	VCR	S2 ignited after no sep
1966-S71	2439144.26	1966 Jan 18 1811	Thor DSV-2J	-	242	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1966-007	2439159.40	1966 Feb 2 2132:13	Thor SLV-2A Agena D	-	450/1623	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-008	2439159.82	1966 Feb 3 0741:23	Thor Delta C	-	445/D036	0.140	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1966-009	2439166.32	1966 Feb 9 1945:01	Thor SLV-2A Agena D	-	428/2703	1.600	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-016	2439185.08	1966 Feb 28 1358:00	Thor Delta E	-	461/D037	0.132	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1966-018	2439194.42	1966 Mar 9 2202:03	Thor SLV-2A Agena D	-	452/1622	1.640	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-S161	2439196.53	1966 Mar 12 0042	Thor DSV-2J	-	196	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1966-026	2439215.74	1966 Mar 31 0541:04	Thor Burner 1	-	147	0.072	S4300	OS	-	G	Sat SSO O	VCR	-	-
1966-029	2439223.42	1966 Apr 7 2202:55	Thor SLV-2A Agena D	-	474/1627	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-F05	2439249.31	1966 May 3 1925:25	Thor SLV-2A Agena D	-	465/1625	0.590	AFSSD	OF	S1S*	G	Sat LEO A	VCR	-	Late separation
1966-040	2439260.83	1966 May 15 0755:34	Thor SLV-2A Agena B	-	456/6202 (TA6)	0.414	LERC/AFSSD	OS	-	G	Sat SSO O	VCR	-	-
1966-042	2439269.58	1966 May 24 0200:33	Thor SLV-2A Agena D	-	469/1630	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-044	2439271.08	1966 May 25 1400:00	Thor Delta C1	-	436/D038	0.224	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1966-055	2439298.40	1966 Jun 21 2131:30	Thor SLV-2A Agena D	-	466/1626	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-056	2439300.51	1966 Jun 24 0012:02	Thor SLV-2A Agena D	-	473/6311 (TA7)	0.085	LERC/AFSSD	OS	-	G	Sat MEO O	VCR	-	-
1966-058	2439308.17	1966 Jul 1 1602:25	Thor Delta E1	-	467/D039	0.094	GSFC	DS	-	G	Sat DSO OO 1	TR-1022	-	-
1966-S359	2439309.37	1966 Jul 2 2053	Thor DSV-2J	-	289	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1966-072	2439347.37	1966 Aug 9 2046:03	Thorad SLV-2G Agena D	-	506/1631	1.615	AFSSD	OS	-	G	Sat SSO A	VCR	-	-
1966-075	2439355.14	1966 Aug 17 1520:17	Thor Delta E1	-	462/D040	0.063	GSFC	DS	-	G	Sat EEO OE	TR-1022	-	-
1966-082	2439384.69	1966 Sep 16 0436:09	Thor Burner 2	-	167/BII-1	0.079	S4300	OS	-	G	Sat SSO O	SAC7383	-	-
1966-085	2439389.38	1966 Sep 20 2114:05	Thor SLV-2A Agena D	-	477/1628	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1966-087	2439400.94	1966 Oct 2 1039:03	Thor Delta E	-	463/D041	0.150	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1966-096	2439425.46	1966 Oct 26 2305:00	Thor Delta E1	-	464/D042	0.162	GSFC	OS	-	G	Sat GTO OO	TR-1022	-	-
1966-102	2439438.33	1966 Nov 8 1953:02	Thorad SLV-2G Agena D	-	507/1632	1.615	AFSSD	OS	-	G	Sat SSO A	VCR	-	-
1966-114	2439474.31	1966 Dec 14 1920:03	Thor Delta G	-	471/D043	0.672	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1966-118	2439489.00	1966 Dec 29 1200:06	Thor SLV-2A Agena D	-	459/2731	1.600	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-001	2439501.95	1967 Jan 11 1055:00	Thor Delta E1	-	468/D044	0.163	GSFC	OS	-	G	Sat GTO OO	TR-1022	-	-
1967-002	2439505.39	1967 Jan 14 2128:21	Thor SLV-2A Agena D	-	495/1629	1.640	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-006	2439517.23	1967 Jan 26 1731	Thor Delta E	-	472/D045	0.132	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1967-010	2439529.83	1967 Feb 8 0800:52	Thor Burner 2	-	169/BII-2	0.079	S4300	OS	-	G	Sat SSO O	SAC7383	-	-
1967-015	2439544.42	1967 Feb 22 2202:15	Thor SLV-2A Agena D	-	493/1635	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-020	2439558.17	1967 Mar 8 1612:00	Thor Delta C	-	431/D046	0.284	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1967-026	2439572.56	1967 Mar 23 0130:12	Thor Delta E1	-	470/D047	0.163	GSFC	OS	-	G	Sat GTO OO	TR-1022	-	-
1967-029	2439580.29	1967 Mar 30 1854:23	Thor SLV-2A Agena D	-	501/1636	1.615	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-S186	2439580.78	1967 Mar 31 0644	Thor DSV-2J	-	168	0.000	AFSSD	MS	-	-	Interceptor	P437	-	-
1967-036	2439600.97	1967 Apr 20 1121:10	Thor Delta E	-	484/D048	0.147	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1967-043	2439620.41	1967 May 9 2150:42	Thorad SLV-2G Agena D	-	508/1634	1.720	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-051	2439635.09	1967 May 24 1405:54	Thor Delta E1	-	486/D049	0.074	GSFC	OS	-	G	Sat DSO O	LR670524	TR-1022	-
1967-053	2439641.90	1967 May 31 0930:48	Thor SLV-2 Agena D	-	443/2704	0.371	AFSSD	OS	-	G	Sat LEO O	VCR	-	-
1967-062	2439658.40	1967 Jun 16 2135:22	Thorad SLV-2G Agena D	-	509/1633	1.720	AFSSD	OS	-	G	Sat LEO A	VCR	-	-
1967-065	2439671.38	1967 Jun 29 2101:44	Thor Burner 2	-	171/BII-3	0.097	10ADS	OS	-	G	Sat MEO O	SAC7383	-	-
1967-070	2439691.10	1967 Jul 19 1419:02	Thor Delta E1	-	488/D050	0.067	GSFC	DS	-	G	Sat EEO OE	TR-1022	-	-
1967-071	2439696.66	1967 Jul 25 0348:10	Thor SLV-2A Agena D	2	496/2732	1.600	SAMSO	OS	-	G	Sat LEO A	VCR	-	-
1967-073	2439700.10	1967 Jul 28 1421:07	Thor SLV-2A Agena D	-	478/6802 (TA8)	0.551	LERC/SAMSO	OS	-	G	Sat LEO O	VCR	-	-
1967-076	2439710.41	1967 Aug 7 2144	Thorad SLV-2G Agena D	-	510/1637	1.640	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1967-080	2439725.70	1967 Aug 23 0441:04	Thor Burner 2	-	266/BII-4	0.079	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1967-083	2439741.42	1967 Sep 7 2204:26	Thor Delta G	-	475/D051	0.435	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1967-087	2439749.32	1967 Sep 15 1941:15	Thorad SLV-2G Agena D	-	512/1641	1.990	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1967-094	2439761.53	1967 Sep 28 0045:00	Thor Delta E1	-	442/D052	0.163	GSFC	OS	-	G	Sat GTO OO	TR-1022	-	-
1967-096	2439774.83	1967 Oct 11 0757:56	Thor Burner 2	-	268/BII-5	0.079	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-100	2439782.17	1967 Oct 18 1558:00	Thor Delta C1	-	490/D053	0.285	GSFC	OS	-	G	Sat LEO O	TR-1022/TLE	-	-
1967-109	2439797.40	1967 Nov 2 2131:19	Thorad SLV-2G Agena D	-	513/1639	1.720	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1967-114	2439805.25	1967 Nov 10 1753:08	Thor Delta E1	-	480/D054	0.135	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1967-122	2439834.43	1967 Dec 9 2225:41	Thorad SLV-2G Agena D	-	514/1642	1.990	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1967-123	2439838.09	1967 Dec 13 1408:00	Thor Delta E1	-	489/D055	0.083	GSFC	DS	-	G	Sat EEO OE	TR-1022	-	-
1968-002	2439867.18	1968 Jan 11 1616:00	Thor Delta E1	-	454/D056	0.212	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1968-004	2439872.92	1968 Jan 17 1012	Thor SLV-2A Agena D	2	498/2733	1.600	SAMSO	OS	-	G	Sat LEO A	LR680117	-	-
1968-008	2439880.43	1968 Jan 24 2226	Thorad SLV-2G Agena D	-	516/1640	1.795	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1968-020	2439930.42	1968 Mar 14 2200:14	Thorad SLV-2G Agena D	-	518/1638	1.770	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1968-039	2439978.40	1968 May 1 2131	Thorad SLV-2G Agena D	-	511/1643	2.015	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1968-S318	2439990.80	1968 May 14 0705	Thor DSV-2J	-	205	0.000	SAMSO	MS	-	-	Interceptor	P437	-	-
1968-F04	2439994.85	1968 May 18 0823	Thorad SLV-2G Agena D	-	520/6221 (TA9)	0.595	LERC/SAMSO	OF	S1G	G	Sat SSO O	JG9602	-	Gyro installed wrong
1968-042	2439999.69	1968 May 23 0438:12	Thor Burner 2	-	277/BII-6	0.079	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1968-052	2440028.41	1968 Jun 20 2146:05	Thorad SLV-2G Agena D	-	517/1645	1.770	SAMSO	OS	-	G	Sat LEO A	PH	-	-
1968-055	2440042.23	1968 Jul 4 1726:50	Thor Delta J	-	476/D057	0.268	GSFC	OS	-	G	Sat MEO O	MOR S-877-68-01	-	-
1968-065	2440076.40	1968 Aug 7 2136:55	Thorad SLV-2G Agena D	?	522/1644	1.990	SAMSO	OS	-	G	Sat LEO A	PER	LR680808	-
1968-069	2440084.98	1968 Aug 16 1124:33	Thor Delta N	-	528/D058	0.154	GSFC	OS	-	G	Sat LEO S	TR-1022	-	-
1968-078	2440118.40	1968 Sep 18 2132	Thorad SLV-2G Agena D	?	524/1647	1.770	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1968-F08	2440118.51	1968 Sep 19 0009:00	Thor Delta M	-	529/D059	0.294	GSFC	OF	S1G	G	Sat GTO OO	TR-1022	-	Gyro failed, RSO destruct
1968-086	2440134.97	1968 Oct 5 1116?	Thorad SLV-2G Agena D	?	521/2734	1.796	SAMSO	OS	-	G	Sat LEO A	RAE	-	-
1968-092	2440152.69	1968 Oct 23 0434:03	Thor Burner 2	-	173/BII-8	0.079	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1968-098	2440164.40	1968 Nov 3 2130	Thorad SLV-2G Agena D	?	515/1646	1.990	SAMSO	OS	-	G	Sat LEO A	LR681104	-	-
1968-100	2440168.91	1968 Nov 8 0946:29	Thor Delta E1	-	479/D060	0.085	GSFC	DS	-	G	Sat EEO OE	TR-1022	-	-
1968-S596	2440180.80	1968 Nov 20 0708	Thor DSV-2J	-	252	0.000	SAMSO	MS	-	-	Interceptor	P437	-	-
1968-109	2440196.29	1968 Dec 5 1855:00	Thor Delta E1	-	481/D061	0.109	GSFC	OS	-	G/OG	Sat DSO OO	TR-1022	-	-
1968-112	2440203.43	1968 Dec 12 2222	Thorad SLV-2G Agena D	-	527/1648	1.810	SAMSO	OS	-	G	Sat LEO A	LR681213	-	-
1968-114	2440206.22	1968 Dec 15 1721:04	Thor Delta N	-	532/D062	0.131	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1968-116	2440209.52	1968 Dec 19 0032:00	Thor Delta M	-	536/D063	0.294	GSFC	OS	-	G	Sat GTO SO	TR-1022	-	-
1969-006	2440244.20	1969 Jan 22 1648:00	Thor Delta C1	-	487/D064	0.293	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1969-009	2440251.78	1969 Jan 30 0646	Thor Delta E1	-	485/D065	0.236	GSFC	OS	-	G/OG	Sat MEO O	TR-1022	-	-
1969-010	2440258.42	1969 Feb 5 2159:54	Thorad SLV-2G Agena D	?	519/1650	2.095	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1969-011	2440258.53	1969 Feb 6 0039:00	Thor Delta M	-	530/D066	0.291	GSFC	OS	-	G	Sat GTO SO	TR-1022	-	-
1969-016	2440278.82	1969 Feb 26 0747:01	Thor Delta E1	-	483/D067	0.157	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1969-026	2440300.40	1969 Mar 19 2138	Thorad SLV-2G Agena D	-	541/1651	1.810	SAMSO	OS	-	G	Sat LEO A	LR690320	-	-
1969-037	2440325.83	1969 Apr 14 0754:03	Thorad SLV-2G Agena D	?	543/6222 (TA10)	0.594	LERC/SAMSO	OS	-	G	Sat SSO O	LR690414	-	-
1969-041	2440343.57	1969 May 2 0146:58	Thorad SLV-2G Agena D	?	544/1649	1.810	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1969-045	2440363.58	1969 May 22 0200:00	Thor Delta M	-	533/D068	0.294	GSFC	OS	-	G	Sat GTO SO	TR-1022	-	-
1969-051	2440378.11	1969 Jun 5 1442:45	Thorad SLV-2H Agena D	-	526/6803 (TA11)	0.620	LERC/SAMSO	OS	-	G	Sat LEO O	KHR-1	MOR	-
1969-053	2440393.87	1969 Jun 21 0847:58	Thor Delta E1	-	482/D069	0.079	GSFC	OS75	S2G*	G	Sat DSO SO	TR-1022	-	Yaw mvr failed
1969-056	2440401.64	1969 Jun 29 0315:59	Thor Delta N	-	539/D070	0.697	GSFC	OS	-	G	Sat LEO O	MOR S-883-69-03	TR-1022	-
1969-062	2440425.69	1969 Jul 23 0439:55	Thor Burner 2	-	279/BII-7	0.079	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1969-063	2440426.56	1969 Jul 24 0130:58	Thorad SLV-2H Agena D	?	545/1652	1.990	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1969-064	2440428.59	1969 Jul 26 0206:00	Thor Delta M	-	547/D071	0.294	GSFC	OF40	S3P	G	Sat GTO SO	TR-1022	-	S3 exploded mid-burn
1969-065	2440433.93	1969 Jul 31 1019	Thorad SLV-2G Agena D	?	523/2735	1.796	SAMSO	OS	-	G	Sat LEO A	LR690731	-	-
1969-068	2440442.83	1969 Aug 9 0752:00	Thor Delta N	-	548/D072	0.408	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1969-F12	2440461.42	1969 Aug 27 2159:00	Thor Delta L	-	540/D073	0.085	GSFC	OF	S1G*	G	Sat EEO OE	TR-1022	-	Hydraulics out, RSO destruct
1969-079	2440487.38	1969 Sep 22 2111:02	Thorad SLV-2G Agena D	-	531/1653	1.810	SAMSO	OS	-	G	Sat LEO O	PER1052	-	-
1969-082	2440495.07	1969 Sep 30 1340	Thorad SLV-2G Agena D	-	525/2706	0.611	SAMSO	OS	-	G	Sat LEO O	JG9602	-	-
1969-101	2440547.53	1969 Nov 22 0037:00	Thor Delta M	-	554/D074	0.243	GSFC	OS	-	G/OG	Sat GTO O	TR-1022	-	-
1969-105	2440560.40	1969 Dec 4 2138	Thorad SLV-2H Agena D	-	549/1655	1.990	SAMSO	OS	-	G	Sat LEO A	PER	JG9602	-
1970-003	2440601.51	1970 Jan 15 0016:03	Thor Delta M	-	557/D075	0.294	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1970-008	2440609.98	1970 Jan 23 1131:02	Thor Delta N6	-	542/D076	0.327	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1970-009	2440621.62	1970 Feb 4 0259:50	Thorad SLV-2G Agena D	-	534/6111 (TA12)	1.524	LERC/SAMSO	OS	-	G	Sat SSO O	TR-1022	SP-4015	-
1970-012	2440628.86	1970 Feb 11 0840:47	Thor Burner 2	-	287/BII-9	0.104	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1970-016	2440650.43	1970 Mar 4 2215:00	Thorad SLV-2H Agena D	-	551/1657	2.095	SAMSO	OS	-	G	Sat LEO A	PER	JG9602	-
1970-021	2440666.49	1970 Mar 20 2352:00	Thor Delta M	-	558/D077	0.243	GSFC	OS	-	G	Sat GTO O 1	TR-1022	-	-
1970-S270	2440673.82	1970 Mar 28 0737:22	Thor DSV-2J	-	152	0.000	SAMSO	MS	-	-	Interceptor	ADCMemo	-	-
1970-025	2440684.85	1970 Apr 8 0817:56	Thorad SLV-2G Agena D	?	553/6231 (TA13)	0.637	LERC/SAMSO	OS	-	G	Sat SSO O	TR-1022	-	-
1970-032	2440699.53	1970 Apr 23 0046:12	Thor Delta M	-	559/D078	0.294	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1970-S328	2440701.50	1970 Apr 25?	Thor DSV-2J	-	225	0.000	SAMSO	MS	-	-	Test	P437	-	-
1970-040	2440727.40	1970 May 20 2135:10	Thorad SLV-2H Agena D	-	555/1656	2.095	SAMSO	OS	-	G	Sat LEO A	PER	LR700521	-
1970-054	2440790.56	1970 Jul 23 0125	Thorad SLV-2H Agena D	-	556/1654	1.990	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1970-055	2440791.47	1970 Jul 23 2323:00	Thor Delta M	-	563/D079	0.294	GSFC	OS	-	G	Sat GTO O	TR-1022	-	-
1970-062	2440818.01	1970 Aug 19 1211:00	Thor Delta M	-	561/D080	0.243	GSFC	OS	-	G/OG	Sat GTO O	TR-1022	-	-
1970-066	2440824.92	1970 Aug 26 1001	Thorad SLV-2G Agena D	?	535/2736	1.796	SAMSO	OS	-	G	Sat LEO A	LR700826	-	-
1970-070	2440832.86	1970 Sep 3 0839:45	Thor Burner 2	-	288/BII-13	0.104	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1970-S532	2440854.04	1970 Sep 24 1254:01	Thor DSV-2J	-	271	0.000	SAMSO	RS	-	SAND/LRL/Seward	XR Astron/Test	FDS	-	-
1970-098	2440909.39	1970 Nov 18 2128:00	Thorad SLV-2H Agena D	-	552/1658	2.095	SAMSO	OS	-	G	Sat LEO A	PER1112	-	-
1970-106	2440931.98	1970 Dec 11 1135:00	Thor Delta N6	-	546/D081	0.311	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1971-009	2440985.57	1971 Feb 3 0141:40	Thor Delta M	-	560/D082	0.243	GSFC	OS	-	G	Sat GTO SO	TR-1022	-	-
1971-012	2440999.66	1971 Feb 17 0352:05	Thor Burner 2	-	249/BII-11	0.107	10ADS	OS	-	G	Sat SSO O	SAC7383	Wire	-
1971-F01	2441000.34	1971 Feb 17 2004:30	Thorad SLV-2H Agena D	?	537/1659	0.830	SAMSO	OF	S1P	G	Sat SSO A	PER1113	JG9602	Turbopump failed
1971-019	2441024.18	1971 Mar 13 1615:00	Thor Delta M6	-	562/D083	0.290	GSFC	OS	-	G	Sat DSO OO 2	TR-1022	-	-
1971-022	2441035.38	1971 Mar 24 2106:00	Thorad SLV-2H Agena D	-	538/1660	1.990	SAMSO	OS	-	G	Sat LEO A	PER1114	-	-
1971-024	2441042.62	1971 Apr 1 0257:07	Thor Delta E1	-	491/D084	0.264	GSFC	OS	-	G/OG	Sat LEO O	TR-1022	-	-
1971-054	2441111.08	1971 Jun 8 1400:05	Thor Burner 2	-	210/BII-12	0.300	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1971-060	2441148.95	1971 Jul 16 1049	Thorad SLV-2H Agena D	?	550/2737	1.796	SAMSO	OS	-	G	Sat LEO A	BYE15929-71	LR710716	-
1971-076	2441205.40	1971 Sep 10 2132:56	Thorad SLV-2H Agena D	-	567/1662	2.095	SAMSO	OS	-	G	Sat LEO A	PER1115	LR710911	-
1971-083	2441223.91	1971 Sep 29 0945:00	Thor Delta N	-	565/D085	0.660	GSFC	OS75	S2G2	G	Sat LEO O	KHR-1	TR-1022	S2 lost control, orbit low
1971-087	2441238.83	1971 Oct 14 0751:17	Thor Burner 2A	-	159/BIIA-10	0.192	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1971-089	2441242.07	1971 Oct 17 1336	Thorad SLV-2G Agena D	-	570/?	1.800	SAMSO	OS	-	G	Sat LEO A	Wire	-	-
1971-091	2441245.98	1971 Oct 21 1132:00	Thor Delta N6	-	572/D086	0.306	GSFC	OF	S2G2	G	Sat SSO O	TR-1022	-	Tumbled prior to 2nd burn
1971-110	2441300.01	1971 Dec 14 1213	Thorad SLV-2G Agena D	-	568/2707?	0.502	SAMSO	OS	-	G	Sat LEO O	JCM	-	-
1972-005	2441348.22	1972 Jan 31 1720:02	Thor Delta L	-	564/D087	0.117	GSFC	OS	-	G/OG	Sat DSO OO 2	TR-1022	-	-
1972-014	2441388.58	1972 Mar 12 0155:08	Thor Delta N	-	573/D088	0.475	GSFC	OS	-	G/OG	Sat SSO O	TR-1022	-	-
1972-018	2441400.87	1972 Mar 24 0846:12	Thor Burner 2A	-	153/BIIA-15	0.192	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-032	2441427.41	1972 Apr 19 2143:59	Thorad SLV-2H Agena D	-	569/1661	1.990	SAMSO	OS	-	G	Sat LEO A	PER	-	-
1972-039	2441463.28	1972 May 25 1841:00	Thorad SLV-2H Agena D	-	571/1663	1.984	SAMSO	OS	-	G	Sat SSO A	JCM	-	-
1972-058	2441522.25	1972 Jul 23 1806:06	Delta 0900	-	574/D089	0.891	GSFC	OS	-	G	Sat SSO O	MOR E-641-72-01	-	-
1972-073	2441583.56	1972 Sep 23 0120:00	Delta 1604	-	579/D090	0.390	GSFC	OS	-	G	Sat DSO OO 1	TR-1022	-	-
1972-082	2441606.22	1972 Oct 15 1719:19	Delta 0300	-	575/D091	0.327	GSFC	OS	-	G	Sat SSO L	TR-1022	-	-
1972-089	2441630.64	1972 Nov 9 0323:46	Thor Burner 2A	-	294/BIIA-16	0.192	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1972-090	2441631.55	1972 Nov 10 0114:03	Delta 1914	-	580/D092	1.080	GSFC	OS	-	G/C	Sat GTO BO	TR-1022	-	-
1972-097	2441662.83	1972 Dec 11 0756:00	Delta 0900	-	577/D093	0.715	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1973-023	2441793.49	1973 Apr 20 2347:03	Delta 1914	-	583/D094	0.544	GSFC	OS	-	G/C	Sat GTO BO	TR-1022	-	-
1973-039	2441844.09	1973 Jun 10 1413:00	Delta 1913	-	581/D095	0.462	GSFC	DS	-	G	Sat DSO OO	TR-1022	-	-
1973-F06	2441880.22	1973 Jul 16 1710:21	Delta 0300	-	578/D096	0.340	GSFC	OF	S2G	G	Sat SSO O	TR-1022	-	Hydraulics failed, tumbled
1973-054	2441911.70	1973 Aug 17 0449:12	Thor Burner 2A	-	291/BIIA-21	0.192	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1973-078	2441981.60	1973 Oct 26 0226:03	Delta 1604	-	582/D097	0.398	GSFC	OS	-	G	Sat DSO OO 2	TR-1022	-	-
1973-086	2441993.21	1973 Nov 6 1702:00	Delta 0300	-	576/D098	0.340	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1973-101	2442032.76	1973 Dec 16 0618:00	Delta 1900	-	585/D099	0.668	GSFC	OS	-	G	Sat MEO O	TR-1022	-	-
1974-002	2442066.57	1974 Jan 19 0138:47	Delta 2313	-	587/D100	0.435	GSFC	OF40	S2G2*	G/OG	Sat GTO OO 2	TR-1022	-	S2 underburn, tumbling
1974-015	2442122.83	1974 Mar 16 0800:11	Thor Burner 2A	-	207/BIIA-19	0.192	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1974-022	2442151.48	1974 Apr 13 2333:03	Delta 2914	C	588/D101	0.574	GSFC	OS	-	G/C	Sat GTO OO	TR-1022	-	-
1974-033	2442184.90	1974 May 17 0931:00	Delta 2914	-	590/D102	0.627	GSFC	OS75	S1P*	G	Sat GTO OO 2	TR-1022	-	S1 LOX pressure lost
1974-063	2442268.64	1974 Aug 9 0322:47	Thor Burner 2A	-	275/BIIA-22	0.195	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1974-075	2442331.45	1974 Oct 10 2253:00	Delta 2914	C	589/D103	0.572	GSFC	OS	-	G/C	Sat GTO OO	TR-1022	-	-
1974-089	2442367.22	1974 Nov 15 1711:00	Delta 2310	-	592/D104	0.399	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1974-094	2442374.52	1974 Nov 23 0028:01	Delta 2313	-	591/D105	0.436	GSFC	OS	-	G/OG	Sat GTO OO	TR-1022	-	-
1974-101	2442400.61	1974 Dec 19 0239:00	Delta 2914	-	599/D106	0.400	GSFC	OS	-	G/OG	Sat GTO OO 2	TR-1022	-	-
1975-004	2442435.25	1975 Jan 22 1755:52	Delta 2910	-	598/D107	0.953	GSFC	OS	-	G	Sat SSO L	TR-1022	-	-
1975-011	2442450.42	1975 Feb 6 2204:00	Delta 2914	-	593/D108	0.628	GSFC	OS	-	G	Sat GTO OO 2	TR-1022	-	-
1975-027	2442512.50	1975 Apr 9 2358:02	Delta 1410	-	584/D109	0.340	GSFC	OS	-	G	Sat LEO O	LR750410	TR-1022	-
1975-038	2442540.48	1975 May 7 2335:26	Delta 2914	C	596/D110	0.544	GSFC	OS	-	G/C	Sat GTO BO 2	TR-1022	-	-
1975-043	2442556.64	1975 May 24 0322:41	Thor Burner 2A	-	197/BIIA-24	0.195	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1975-052	2442575.84	1975 Jun 12 0812:01	Delta 2910	-	595/D111	0.827	GSFC	OS	-	G	Sat SSO O	TR-1022	-	-
1975-057	2442584.99	1975 Jun 21 1143:00	Delta 1910	-	586/D112	1.064	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1975-072	2442633.58	1975 Aug 9 0150:00	Delta 2913	-	602/D113	0.278	GSFC	OS	-	G/OG	Sat HEO OO 2	TR-1022	-	-
1975-077	2442651.57	1975 Aug 27 0142:00	Delta 2914	-	594/D114	0.400	GSFC	OS	-	G/OG	Sat GTO OO 2	TR-1022	-	-
1975-082	2442664.73	1975 Sep 9 0530	N-1	-	N-1(F)	0.082	NASDA	OS	-	G	Sat LEO O	WWW-NASDA	-	-
1975-S277	2442674.78	1975 Sep 19 0650:00	Thor DSV-2J	-	201	0.000	SAMSO	MS	-	-	Target	OPS7901-8244-FR	P437	-
1975-096	2442691.88	1975 Oct 6 0900:50	Delta 2910	-	600/D115	0.675	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1975-100	2442702.44	1975 Oct 16 2240:00	Delta 2914	-	597/D116	0.612	GSFC	OS	-	G	Sat GTO BO 2	CCMOPS	-	-
1975-S314	2442722.74	1975 Nov 6 0545:00	Thor DSV-2J	-	274	0.000	SAMSO	MS	-	-	Target	OPS7901-8244-FR	P437	-
1975-107	2442736.59	1975 Nov 20 0206:48	Delta 2910	-	604/D117	0.720	GSFC	OS	-	G	Sat LEO O	TR-1022	-	-
1975-117	2442759.58	1975 Dec 13 0156:14	Delta 3914	-	607/D118	0.867	GSFC	OS	-	G/C	Sat GTO OO 2	TR-1022	-	-
1976-004	2442795.48	1976 Jan 17 2327:54	Delta 2914	-	606/D119	0.685	GSFC	OS	-	G/OG	Sat GTO OO 2	MOR E-610-76-01	-	-
1976-016	2442827.83	1976 Feb 19 0752:52	Thor Burner 2A	-	182/BIIA-25	0.195	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1976-017	2442828.44	1976 Feb 19 2232	Delta 2914	-	603/D120	0.738	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1976-019	2442837.65	1976 Feb 29 0330	N-1	-	N-2(F)	0.135	NASDA	OS	-	G	Sat LEO O	WWW-NASDA	-	-
1976-029	2442864.45	1976 Mar 26 2247	Delta 3914	-	610/D121	0.867	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1976-035	2442891.37	1976 Apr 22 2046:00	Delta 2914	-	608/D122	0.670	GSFC	OS	-	G	Sat GTO OO 2	KHR-1	-	-
1976-039	2442902.83	1976 May 4 0800	Delta 2913	-	609/D123	0.629	GSFC	OS	-	G	Sat MTO O 1	KHR-1	-	-
1976-053	2442939.51	1976 Jun 10 0009	Delta 2914	-	601/D124	0.738	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1976-066	2442968.48	1976 Jul 8 2331	Delta 2914	C	611/D125	0.575	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1976-077	2442989.21	1976 Jul 29 1707	Delta 2310	-	605/D126	0.340	GSFC	OS	-	G	Sat SSO O	KHR-1	-	-
1976-091	2443032.83	1976 Sep 11 0800:55	Thor DSV-2U	-	172	1.183	10ADS	OS	-	G	Sat SSO A	SAC7383	-	-
1976-101	2443066.45	1976 Oct 14 2244	Delta 2914	-	614/D127	0.655	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1977-005	2443171.53	1977 Jan 28 0050:00	Delta 2914	-	613/D128	0.701	GSFC	OS	-	G	Sat GTO BO 2	patrick.af.mil	-	-
1977-014	2443197.87	1977 Feb 23 0850	N-1	-	N-3(F)	0.254	NASDA	OS	-	G	Sat GTO O	WWW-NASDA	-	-
1977-018	2443213.47	1977 Mar 10 2316	Delta 2914	-	612/D129	0.575	GSFC	OS	-	G/C	Sat GTO OO 2	KHR-1	-	-
1977-029	2443253.93	1977 Apr 20 1015	Delta 2914	-	617/D130	0.573	GSFC	OF70	S3G	G/OG	Sat GTO OO 2	MOR M-492-302-77-01	-	S3 spin table failed
1977-044	2443299.62	1977 Jun 5 0259:02	Thor DSV-2U	-	183	1.182	10ADS	OS	-	G	Sat SSO A	SAC7383	-	-
1977-048	2443310.95	1977 Jun 16 1051:00	Delta 2914	-	616/D131	0.624	GSFC	OS	-	G	Sat GTO BO 2	CCMOPS	-	-
1977-065	2443338.94	1977 Jul 14 1039:00	Delta 2914	-	618/D132	0.664	GSFC	OS	-	G/OG	Sat GTO OO 2	CCMOPS	-	-
1977-080	2443381.49	1977 Aug 25 2349:59	Delta 2313	-	615/D133	0.398	GSFC	OS	-	G/OG	Sat GTO BO 2	CCMOPS	-	-
1977-F04	2443400.48	1977 Sep 13 2331:00	Delta 3914	-	619/D134	0.838	GSFC	OF	SOP	G/OG	Sat GTO OO 2	CCMOPS	-	SRM failed, exploded
1977-102	2443439.08	1977 Oct 22 1353:00	Delta 2914	-	623/D135	0.505	GSFC	OS	-	G	Sat HEO OO	CCMOPS	-	-
1977-108	2443470.57	1977 Nov 23 0135:00	Delta 2914	-	620/D136	0.699	GSFC	OS	-	G/OG	Sat GTO OO 1	CCMOPS	-	-
1977-118	2443492.53	1977 Dec 15 0047:03	Delta 2914	-	624/D137	0.677	GSFC	OS	-	G/OG	Sat GTO BO	KHR-1	-	-
1978-012	2443535.23	1978 Jan 26 1736:00	Delta 2914	-	628/D138	0.673	GSFC	OS	-	G	Sat GTO OO 1	KHR-1	-	-
1978-018	2443555.67	1978 Feb 16 0400	N-1	-	N-4(F)	0.141	NASDA	OS	-	G	Sat LEO O	WWW-NASDA	-	-
1978-026	2443573.25	1978 Mar 5 1754	Delta 2910	-	621/D139	0.927	GSFC	OS	-	G	Sat SSO L	KHR-1	-	-
1978-039	2443606.42	1978 Apr 7 2201:00	Delta 2914	-	626/D140	0.678	GSFC	OS	-	G/OG	Sat GTO BO	KHR-1	-	-
1978-042	2443629.63	1978 May 1 0305:04	Thor DSV-2U	-	143	1.183	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1978-044	2443640.46	1978 May 11 2259:00	Delta 3914	-	627/D141	0.865	GSFC	OS	-	G/OG	Sat GTO BO	MOR M-492-210-78-2	JBIS32,186	-
1978-062	2443675.95	1978 Jun 16 1049	Delta 2914	-	625/D142	0.628	GSFC	OS	-	G	Sat GTO BO	KHR-1	-	-
1978-071	2443703.95	1978 Jul 14 1043	Delta 2914	-	631/D143	0.575	GSFC	OS	-	G/OG	Sat GTO BO	MOR M-492-302-78-02	-	-
1978-079	2443733.13	1978 Aug 12 1512	Delta 2914	-	633/D144	0.479	GSFC	DS	-	G	Sat EEO OE	KHR-1	-	-
1978-098	2443805.84	1978 Oct 24 0814:01	Delta 2910	-	630/D145	1.921	GSFC	OS	-	G	Sat SSO O	SP-4023	-	-
1978-106	2443831.53	1978 Nov 19 0046:00	Delta 2914	-	634/D146	0.706	GSFC	OS	-	G	Sat GTO OO	KHR-1	-	-
1978-116	2443858.51	1978 Dec 16 0021	Delta 3914	-	632/D147	0.922	GSFC	OS	-	G/C	Sat GTO OO	KHR-1	-	-
1979-007	2443904.40	1979 Jan 30 2142	Delta 2914	-	629/D148	0.388	GSFC	OS	-	G	Sat GTO OO	KHR-1	-	-
1979-009	2443910.87	1979 Feb 6 0846	N-1	-	N-5(F)	0.260	NASDA	OF25	S3S	G	Sat GTO OO	WWW-NASDA	-	S3 hit payload after sep
1979-050	2444031.27	1979 Jun 6 1822:12	Thor DSV-2U	-	264	1.183	10ADS	OS	-	G	Sat SSO O	SAC7383	-	-
1979-072	2444095.51	1979 Aug 10 0020	Delta 2914	-	638/D149	0.572	GSFC	OS	-	G/C	Sat GTO OO	KHR-1	-	-
1979-101	2444214.57	1979 Dec 7 0135	Delta 3914	-	622/D150	0.867	GSFC	OS	-	G/C	Sat GTO BO	KHR-1	-	-
1980-014	2444284.16	1980 Feb 14 1557	Delta 3910	-	635/D151	2.315	GSFC	OS	-	G	Sat LEO O	JCM	-	-
1980-018	2444291.86	1980 Feb 22 0835	N-1	-	N-6(F)	0.260	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1980-F02	2444435.60	1980 Jul 15 0222:11	Thor DSV-2U	-	304	1.184	S394I	OF	S2S*	G	Sat SSO O	SAC7383	-	S2/S3 bad sep
1980-074	2444492.44	1980 Sep 9 2227	Delta 3914	-	637/D152	0.840	GSFC	OS	-	G	Sat STO OO	Falworth	-	-
1980-091	2444559.45	1980 Nov 15 2249	Delta 3910/PAM	-	636/D153	1.064	GSFC	OS	-	G/C	Sat GTO SO	Falworth	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-012	2444646.85	1981 Feb 11 0830	N-2	-	N-7(F)	0.650	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1981-049	2444747.44	1981 May 22 2229	Delta 3914	-	645/D154	0.836	GSFC	OS	-	G	Sat STO OO	Falworth	-	-
1981-070	2444819.91	1981 Aug 3 0956	Delta 3913	-	642/D155	0.844	GSFC	OS75	S2U2*	G	Sat HEO OO	MOR S-850-81-03	-	Incorrect fuelling
1981-076	2444827.34	1981 Aug 10 2003	N-2	-	N-8(F)	0.653	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1981-096	2444872.46	1981 Sep 24 2309	Delta 3910/PAM	-	641/D156	1.064	GSFC	OS	-	G/C	Sat GTO SO	Falworth	-	-
1981-100	2444883.98	1981 Oct 6 1127	Delta 2310	-	639/D157	0.489	GSFC	OS	-	G	Sat SSO B	Falworth	-	-
1981-114	2444928.57	1981 Nov 20 0137	Delta 3910/PAM	-	640/D158	1.082	GSFC	OS	-	G/C	Sat GTO SO	JCM	-	-
1982-004	2444985.58	1982 Jan 16 0155	Delta 3910/PAM	-	643/D159	1.082	GSFC	OS	-	G/C	Sat GTO SO	MOR O-492-206-82-05	-	-
1982-014	2445026.50	1982 Feb 26 0004:44	Delta 3910/PAM	-	644/D160	1.095	GSFC	OS	-	G/C	Sat GTO SO	JCM	-	-
1982-031	2445069.78	1982 Apr 10 0647	Delta 3910/PAM	-	647/D161	1.149	GSFC	OS	-	G/OG	Sat GTO SO	Falworth	-	-
1982-058	2445129.52	1982 Jun 9 0024	Delta 3910/PAM	-	649/D162	1.095	GSFC	OS	-	G/C	Sat GTO SO	Falworth	-	-
1982-072	2445167.25	1982 Jul 16 1759	Delta 3920	-	648/D163	1.938	GSFC	OS	-	G	Sat SSO L	Falworth	-	-
1982-082	2445208.47	1982 Aug 26 2310	Delta 3920/PAM	-	651/D164	1.232	GSFC	OS	-	G/C	Sat GTO BO	Falworth	-	-
1982-087	2445215.71	1982 Sep 3 0500	N-1	-	N-9(F)	0.385	NASDA	OS	-	G	Sat LEO O	WWW-NASDA	-	-
1982-105	2445270.56	1982 Oct 28 0127:49	Delta 3924	-	652/D165	1.116	GSFC	OS	-	G/C	Sat GTO BO	MOR	-	-
1983-004	2445360.60	1983 Jan 26 0217:00	Delta 3910	-	650/D166	1.077	GSFC	OS	-	G	Sat SSO L	JCM	-	-
1983-006	2445369.86	1983 Feb 4 0837	N-2	-	N-10(F)	0.670	NASDA	OS	-	G	Sat GTO PO	WWW-NASDA	-	-
1983-030	2445436.44	1983 Apr 11 2239	Delta 3924	-	653/D167	1.116	GSFC	OS	-	G/C	Sat GTO BO	MOR + TLE	-	-
1983-041	2445453.43	1983 Apr 28 2226	Delta 3914	-	D168	0.839	GSFC	OS	-	G	Sat STO BO	Falworth	-	-
1983-051	2445481.14	1983 May 26 1518	Delta 3914	-	D169	0.510	GSFC	OS	-	G/OG	Sat DSO BO	LR830526	-	-
1983-065	2445514.46	1983 Jun 28 2308	Delta 3920/PAM	-	D170	1.219	GSFC	OS	-	G/C	Sat GTO OO	Desind	-	-
1983-077	2445544.45	1983 Jul 28 2249	Delta 3920/PAM	-	D171	1.225	GSFC	OS	-	G/C	Sat GTO OO	JCM	-	-
1983-081	2445552.35	1983 Aug 5 2029	N-2	-	N-11(F)	0.670	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1983-094	2445586.45	1983 Sep 8 2252	Delta 3924	-	D172	1.116	GSFC	OS	-	G/C	Sat GTO BO	MOR M-492-206-83-08	-	-
1983-098	2445600.43	1983 Sep 22 2216	Delta 3920/PAM	-	D173	1.219	GSFC	OS	-	G/C	Sat GTO OO	Desind	-	-
1984-005	2445722.83	1984 Jan 23 0758	N-2	-	N-12(F)	0.693	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1984-021	2445761.25	1984 Mar 1 1759	Delta 3920	-	D174	1.998	GSFC	OS	-	G	Sat SSO L	LR840301	-	-
1984-080	2445915.35	1984 Aug 2 2030	N-2	-	N-13(F)	0.656	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1984-088	2445929.12	1984 Aug 16 1448	Delta 3924	-	D175	1.054	GSFC	OS	-	G	Sat HEO BO	APLTD	AIAA-85-1396	-
1984-101	2445965.43	1984 Sep 21 2218	Delta 3920/PAM	-	D176	1.146	GSFC	OS	-	G/C	Sat GTO OO	Desind	-	-
1984-115	2446018.52	1984 Nov 14 0034	Delta 3914	-	D177	0.680	GSFC	OS	-	G	Sat GTO OO	JCM	-	-
1986-016	2446473.83	1986 Feb 12 0755	N-2	-	N-14(F)	0.693	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1986-F04	2446554.43	1986 May 3 2218	Delta 3914	-	D178	0.736	GSFC	OF	S1E	G	Sat STO BO	AWST860512-20	-	Shortcircuit caused MECO
1986-061	2446655.36	1986 Aug 12 2045:00	H-1	(2)	H-15(F)	1.029	NASDA	OS	-	G	Sat LEO O	WWW-NASDA	-	-
1986-069	2446679.13	1986 Sep 5 1508:01	Delta 3920	-	D180	2.470	GSFC	OS	-	G	Sat LEO A	patrick.af.mil	-	-
1987-018	2446845.56	1987 Feb 19 0123	N-2	(2)	N-16(F)	0.740	NASDA	OS	-	G	Sat SSO L	WWW-NASDA	-	-
1987-022	2446853.46	1987 Feb 26 2305	Delta 3924	-	D179	0.840	GSFC	OS	-	G	Sat GTO BO	Desind	-	-
1987-029	2446875.43	1987 Mar 20 2222	Delta 3920/PAM	-	D182	1.203	GSFC	OS	-	G/C	Sat GTO OO	Wire	-	-
1987-070	2447034.89	1987 Aug 27 0920	H-1	-	H-17(F)	1.096	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1988-008	2447200.42	1988 Feb 8 2207:00	Delta 3910	-	D181	2.750	GSFC	OS	-	G	Sat LEO A	patrick.af.mil	-	-
1988-012	2447210.92	1988 Feb 19 1005	H-1	-	H-18(F)	1.099	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1988-086	2447420.92	1988 Sep 16 0959	H-1	-	H-19(F)	1.099	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1989-013	2447572.27	1989 Feb 14 1830:00	Delta 6925	-	D184	1.667	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1989-026	2447610.41	1989 Mar 24 2150:49	Delta 3920-8	-	D183	2.600	MDSSC	OS	-	CG	Sat LEO D	patrick.af.mil	-	-
1989-044	2447688.44	1989 Jun 10 2230:00	Delta 6925	-	D185	1.667	MDSSC	OS	-	CG	Sat MTO BO 1	Cleary09	SFLT89-12-411	-
1989-064	2447756.75	1989 Aug 18 0557:59	Delta 6925	-	D186	1.667	MDSSC	OS	-	CG	Sat MTO BO 1	AWST890828-21	-	-
1989-067	2447766.46	1989 Aug 27 2259	Delta 4925-8	-	D187	1.233	MDSSC	OS	-	CO	Sat GTO BO 1	AWST890904-24	-	-
1989-070	2447775.30	1989 Sep 5 1911:00	H-1	6R	H-20(F)	0.725	NASDA	OS	-	G	Sat GTO SO	NASDA-PR	-	-
1989-085	2447820.90	1989 Oct 21 0931:01	Delta 6925	-	D188	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	AWST891030-21	-	-
1989-089	2447849.11	1989 Nov 18 1434	Delta 5920-8	-	D189	2.206	GSFC	OS	-	CG	Sat SSO O	AWST891127-30	-	-
1989-097	2447872.26	1989 Dec 11 1810:01	Delta 6925	-	D190	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	patrick.af.mil	-	-
1990-008	2447916.45	1990 Jan 24 2255:01	Delta 6925	-	D191	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1990-013	2447929.56	1990 Feb 7 0133:00	H-1	(2)	H-21(F)	0.840	NASDA	OS	-	G	Sat SSO L	WWW-NASDA	-	-
1990-015	2447937.18	1990 Feb 14 1615:01	Delta 6920-8	-	D192	2.440	MDSSC	OS	-	CG	Sat LEO L	Wire	-	-
1990-025	2447976.61	1990 Mar 26 0245:01	Delta 6925	-	D193	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1990-034	2447995.44	1990 Apr 13 2228:00	Delta 6925-8	-	D194	1.203	MDSSC	OS	-	CO/OG	Sat GTO BO	Wire	-	-
1990-049	2448044.41	1990 Jun 1 2148:00	Delta 6920-10	-	D195	2.426	MDSSC	OS	-	CG	Sat LEO L	Wire	-	-
1990-051	2448054.74	1990 Jun 12 0552	Delta 4925-8	-	D196	1.190	MDSSC	OS	-	CO/OG	Sat GTO BO	Wire	-	-
1990-068	2448105.74	1990 Aug 2 0539:00	Delta 6925	-	D197	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1990-074	2448121.53	1990 Aug 18 0042:00	Delta 6925	-	D198	1.233	MDSSC	OS	-	CO	Sat GTO BO	Wire	-	-
1990-077	2448131.88	1990 Aug 28 0905	H-1	-	H-22(F)	1.115	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	-	-
1990-088	2448166.41	1990 Oct 1 2156:00	Delta 6925	-	D199	1.668	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1990-093	2448195.47	1990 Oct 30 2316:00	Delta 6925	-	D200	1.311	MDSSC	OS	-	CO/OG	Sat GTO BO	Wire	-	-
1990-103	2448222.40	1990 Nov 26 2139:01	Delta 7925	-	D201	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1991-001	2448264.54	1991 Jan 8 0053:01	Delta 7925	-	D202	1.430	MDSSC	OS	-	CG	Sat GTO BO	patrick.af.mil	-	-
1991-018	2448324.46	1991 Mar 8 2303:00	Delta 6925	-	D203	1.311	MDSSC	OS	-	CG	Sat GTO BO 1	Wire	-	-
1991-028	2448359.51	1991 Apr 13 0009:00	Delta 7925	-	D204	1.353	MDSSC	OS	-	CO	Sat GTO BO 1	Wire	-	-
1991-037	2448406.45	1991 May 29 2255:00	Delta 7925	-	D205	1.339	MDSSC	OS	-	CO	Sat GTO BO 1	Wire	-	-
1991-047	2448441.61	1991 Jul 4 0232:00	Delta 7925	-	D206	1.957	MDSSC	OS	-	CG	Sat MTO BO 1	AWST910715-24	-	-
1991-060	2448493.86	1991 Aug 25 0840	H-1	-	H-23(F)	1.115	NASDA	OS	-	G	Sat GTO OO	WWW-NASDA	AWST910902-71	-
1992-007	2448663.58	1992 Feb 11 0150	H-1	(2)	H-24(F)	1.400	NASDA	OS	-	G	Sat SSO L	WWW-NASDA	-	-
1992-009	2448676.44	1992 Feb 23 2229:00	Delta 7925	-	D207	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1992-019	2448722.64	1992 Apr 10 0320:00	Delta 7925	-	D208	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1992-027	2448756.53	1992 May 14 0040:00	Delta 7925	-	D209	1.257	MDSSC	OS	-	CO	Sat GTO BO	Wire	-	-
1992-031	2448781.19	1992 Jun 7 1640:00	Delta 6920-10	-	D210	3.280	MDSSC	OS	-	CG	Sat LEO L	Wire	-	-
1992-039	2448810.89	1992 Jul 7 0920:01	Delta 7925	-	D211	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1992-044	2448828.10	1992 Jul 24 1426:00	Delta 6925	-	D212	1.009	MDSSC	DS	-	CG/OG	Sat DSO BO	Wire	-	-
1992-057	2448865.95	1992 Aug 31 1040:59	Delta 7925	-	D213	1.402	MDSSC	OS	-	CO	Sat GTO BO	Wire	-	-
1992-058	2448874.87	1992 Sep 9 0857:00	Delta 7925	-	D214	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	AWST920914-17	-	-
1992-066	2448907.91	1992 Oct 12 0947:00	Delta 7925	-	D215	1.552	MDSSC	OS	-	CG/OG	Sat GTO BO	SN921019-11	-	-
1992-079	2448949.50	1992 Nov 22 2354:00	Delta 7925	-	D216	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	SN921130-6	-	-
1992-089	2448975.43	1992 Dec 18 2216:00	Delta 7925	-	D217	1.881	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1993-007	2449021.62	1993 Feb 3 0255:00	Delta 7925	-	D218	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	SN930208-	SPFLT35-89	-
1993-017	2449076.63	1993 Mar 30 0309:00	Delta 7925	-	D219	1.912	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1993-032	2449120.50	1993 May 13 0007:00	Delta 7925	-	D220	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1993-042	2449165.06	1993 Jun 26 1327:00	Delta 7925	-	D221	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1993-054	2449230.03	1993 Aug 30 1238:00	Delta 7925	-	D222	1.902	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1993-068	2449287.21	1993 Oct 26 1704:00	Delta 7925	-	D223	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1993-076	2449329.53	1993 Dec 8 0048:00	Delta 7925	-	D224	1.431	MDSSC	OS	-	CG	Sat GTO BO	Wire	-	-
1994-013	2449403.49	1994 Feb 19 2345:00	Delta 7925-8	-	D225	1.393	MDSSC	OS	-	CO	Sat GTO OO	Wire	Rigg	-
1994-016	2449421.65	1994 Mar 10 0340:01	Delta 7925	-	D226	1.932	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1994-071	2449657.90	1994 Nov 1 0931:00	Delta 7925-10	-	D227	1.215	MDSSC	DS	-	CG	Sat DSO BO	Wire	-	-
1995-041	2449934.97	1995 Aug 5 1110:00	Delta 7925	-	D228	1.464	MDSSC	OS75	SOS*	CO	Sat GTO BO	Rigg	-	SRM sep failed
1995-059	2450026.10	1995 Nov 4 1422:00	Delta 7920-10	-	D229	2.750	MDSSC	OS	-	CG/OG	Sat SSO B	Rigg	-	-
1995-074	2450082.08	1995 Dec 30 1348:00	Delta 7920-10	-	D230	2.955	MDSSC	OS	-	CG	Sat LEO L	Wire	-	-
1996-003	2450096.97	1996 Jan 14 1110:00	Delta 7925	-	D231	1.459	MDSSC	OS	-	CO	Sat GTO LO	Wire	-	-
1996-008	2450131.36	1996 Feb 17 2043:27	Delta 7925-8	-	D232	0.805	MDSSC	DS	-	CG	Sat EEO BE	Wire	-	-
1996-013	2450137.98	1996 Feb 24 1124:00	Delta 7925-10	-	D233	1.274	MDSSC	OS	-	CG	Sat HEO BO	Rigg	-	-
1996-019	2450170.51	1996 Mar 28 0021:00	Delta 7925	-	D234	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Rigg	-	-
1996-024	2450198.02	1996 Apr 24 1227:40	Delta 7920-10	-	D235	2.812	MDSSC	OS	-	CG	Sat SSO L	Wire	-	-
1996-033	2450227.55	1996 May 24 0110:00	Delta 7925	-	D236	1.400	MDSSC	OS	-	CO	Sat GTO LO	Rigg	-	-
1996-041	2450280.53	1996 Jul 16 0050:00	Delta 7925	-	D237	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1996-056	2450338.87	1996 Sep 12 0849:00	Delta 7925	-	D238	1.882	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1996-062	2450395.21	1996 Nov 7 1700:49	Delta 7925	-	D239	1.062	MDSSC	DS	-	CG	Sat EEO OE	Wire	-	-
1996-068	2450421.79	1996 Dec 4 0658:07	Delta 7925	-	D240	0.880	MDSSC	DS	-	CG	Sat EEO OE	Wire	-	-
1997-F01	2450466.19	1997 Jan 17 1628:01	Delta 7925	-	D241	2.033	MDSSC	OF	SOP	CG	Sat MTO BO 1	Wire	-	SRM exploded
1997-020	2450574.12	1997 May 5 1455:28	Delta 7920-10C	-	D242	3.310	MDSSC	OS	-	CO	Sat LEO L	AWST970512-25	-	-
1997-025	2450589.44	1997 May 20 2239:00	Delta 7925	-	D243	1.467	MDSSC	OS	-	CO	Sat GTO LO	Wire	-	-
1997-034	2450639.04	1997 Jul 9 1304	Delta 7920-10C	-	D244	3.310	MDSSC	OS85	FF	CO	Sat LEO L	Wire	-	Fairing blanket damaged 1 payloa
1997-035	2450652.65	1997 Jul 23 0343:01	Delta 7925	-	D245	2.033	MDSSC	OS	-	CG	Sat MTO BO 1	Wire	-	-
1997-043	2450681.53	1997 Aug 21 0038:40	Delta 7920-10C	-	D246	3.310	BLS	OS	-	CO	Sat LEO L	Seesat-L	-	-
1997-045	2450686.11	1997 Aug 25 1439:00	Delta 7920-8	-	D247	0.785	BLS	DS	-	CG	Sat EEO O	Wire	-	-
1997-056	2450718.56	1997 Sep 27 0123:36	Delta 7920-10C	-	D248	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1997-067	2450758.52	1997 Nov 6 0030:00	Delta 7925	-	D249	1.882	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
1997-069	2450761.57	1997 Nov 9 0134:26	Delta 7920-10C	-	D250	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1997-082	2450803.05	1997 Dec 20 1316	Delta 7920-10C	-	D251	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-002	2450823.52	1998 Jan 10 0032:01	Delta 7925-9.5	-	D252	1.490	BLS	OS	-	CG/OG	Sat GTO LO	Wire	-	-
1998-008	2450859.11	1998 Feb 14 1434:00	Delta 7420-10C	-	D253	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-010	2450863.08	1998 Feb 18 1358:09	Delta 7920-10C	-	D254	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-019	2450902.75	1998 Mar 30 0602:46	Delta 7920-10C	-	D255	3.310	BLS	OS	-	CO	Sat LEO L	Rigg	-	-
1998-023	2450928.44	1998 Apr 24 2238:34	Delta 7420-10C	-	D256	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-032	2450951.39	1998 May 17 2116:56	Delta 7920-10C	-	D257	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-035	2450974.52	1998 Jun 10 0035:01	Delta 7925-9.5	-	D258	1.451	BLS	OS	-	CO	Sat GTO BO	Wire	-	-
1998-F03	2451052.55	1998 Aug 27 0117:00	Delta 8930	-	D259	3.876	BLS	OF	S1G	CO	Sat GTO O	Wire	-	Roll control instability
1998-051	2451065.38	1998 Sep 8 2113	Delta 7920-10C	-	D260	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-061	2451111.01	1998 Oct 24 1208:01	Delta 7326-9.5	-	D261	0.511	BLS	DS	-	CG	Sat EEO BO	Wire	-	-
1998-066	2451124.07	1998 Nov 6 1337:52	Delta 7920-10C	-	D262	3.310	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1998-068	2451140.50	1998 Nov 22 2354:00	Delta 7925-9.5	-	D263	1.425	BLS	OS	-	CO	Sat GTO LO	Wire	-	-
1998-073	2451159.28	1998 Dec 11 1845:52	Delta 7425-9.5	-	D264	0.629	BLS	DS	-	CG	Sat EEO BE	Wire	-	-
1999-001	2451182.35	1999 Jan 3 2021:10	Delta 7425-9.5	-	D265	0.583	BLS	DS	-	CG	Sat EEO OE	Wire	-	-
1999-003	2451217.38	1999 Feb 7 2104:15	Delta 7426-9.5	-	D266	0.385	BLS	DS	-	CG	Sat EEO BE	Wire	-	-
1999-008	2451232.94	1999 Feb 23 1029:55	Delta 7920-10	-	D267	2.612	BLS	OS	-	CG	Sat SSO L	Wire	-	-
1999-020	2451284.27	1999 Apr 15 1832:00	Delta 7920-10	-	D268	2.101	BLS	OS	-	CG	Sat SSO L	Wire	-	-
1999-024	2451303.54	1999 May 5 0100:00	Delta 8930	-	D269	4.300	BLS	OF40	S2P2	CO	Sat GTO O	Wire	-	Early shutdown
1999-031	2451340.08	1999 Jun 10 1348:43	Delta 7420-10C	-	D270	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1999-035	2451354.16	1999 Jun 24 1544:00	Delta 7320-10	-	D271	1.130	BLS	OS	-	CG	Sat LEO L	Wire	-	-
1999-037	2451369.87	1999 Jul 10 0845:37	Delta 7420-10C	-	D272	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1999-041	2451384.82	1999 Jul 25 0746:03	Delta 7420-10C	-	D273	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1999-043	2451407.69	1999 Aug 17 0437:41	Delta 7420-10C	-	D274	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
1999-055	2451459.04	1999 Oct 7 1251:01	Delta 7925-9.5	-	D275	2.033	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
2000-008	2451583.39	2000 Feb 8 2124:00	Delta 7420-10C	-	D276	1.800	BLS	OS	-	CO	Sat LEO L	Wire	-	-
2000-017	2451629.36	2000 Mar 25 2034:43	Delta 7326-9.5	-	D277	0.496	BLS	OS	-	CG	Sat HEO OO	Wire	-	-
2000-025	2451675.58	2000 May 11 0148:00	Delta 7925-9.5	-	D278	2.033	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
2000-040	2451741.89	2000 Jul 16 0917:00	Delta 7925-9.5	-	D279	2.033	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
2000-048	2451779.96	2000 Aug 23 1105:02	Delta 8930	-	D280	4.348	BLS	OS80	S2U2	CO	Sat GTO O	Wire	-	Underperformed
2000-071	2451859.22	2000 Nov 10 1714:02	Delta 7925-9.5	-	D281	2.033	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
2000-075	2451870.27	2000 Nov 21 1824:25	Delta 7320-10	-	D282	1.247	BLS	OS	-	CG/G+OG	Sat SSO B	Wire	-	-
2001-004	2451939.83	2001 Jan 30 0755:01	Delta 7925-9.5	-	D283	2.033	BLS	OS	-	CG	Sat MTO BO 1	Wire	-	-
2001-013	2452007.13	2001 Apr 7 1502:22	Delta 7925-9.5	-	D284	0.725	BLS	DS	-	CG	Sat EEO OE	Wire	-	-
2001-020	2452048.24	2001 May 18 1745:01	Delta 7925-9.5	-	D285	1.870	BLS	OS	-	CG	Sat GTO OO	Wire	-	-
2001-027	2452091.32	2001 Jun 30 1946:46	Delta 7425-10	-	D286	0.840	BLS	DS	-	CG	Sat DSO OO	Wire	-	-
2001-034	2452130.18	2001 Aug 8 1613:40	Delta 7326-9.5	-	D287	0.856	BLS	DS	-	CG	Sat EEO BO	Wire	-	-
2001-047	2452201.29	2001 Oct 18 1851:26	Delta 7320-10	-	D288	1.028	BLS	OS	-	CO	Sat SSO P	spaceflightnow.com	-	-
2001-055	2452251.13	2001 Dec 7 1507:35	Delta 7920-10	-	D289	1.273	BLS	OS	-	CG	Sat LEO L	spaceflightnow.com	-	-
2002-005	2452317.24	2002 Feb 11 1743:44	Delta 7920-10C	-	D290	3.275	BLS	OS	-	CO	Sat LEO L	spaceflightnow.com	-	-
2002-022	2452398.91	2002 May 4 0954:58	Delta 7920-10L	-	D291	3.078	BLS	OS	-	CG	Sat SSO L	spaceflightnow.com	-	-
2002-034	2452458.78	2002 Jul 3 0647:41	Delta 7425-9.5	-	D292	0.938	BLS	DS	-	CG	Sat DSO PO	spaceflightnow.com	-	-
2003-002	2452652.53	2003 Jan 13 0045:00	Delta 7320-10	-	D294	1.069	BLS	OS	-	CG	Sat LEO L	spaceflightnow.com	-	-
2003-005	2452669.25	2003 Jan 29 1806:00	Delta 7925-9.5	-	D295	2.061	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2003-010	2452730.42	2003 Mar 31 2209:01	Delta 7925-9.5	-	D297	2.033	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2003-027	2452801.25	2003 Jun 10 1758:47	Delta 7925-9.5	-	D298	1.064	BLS	DS	-	CG	Sat EEO BO	spaceflightnow.com	-	-
2003-032	2452828.64	2003 Jul 8 0318:15	Delta 7925H	-	D299	1.065	BLS	DS	-	CG	Sat EEO PO	spaceflightnow.com	-	-
2003-038	2452876.73	2003 Aug 25 0535:39	Delta 7920H	-	D300	0.922	BLS	DS	-	CG	Sat EEO E	spaceflightnow.com	-	-
2003-058	2452994.84	2003 Dec 21 0805:00	Delta 7925-9.5	-	D302	2.033	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2004-009	2453085.25	2004 Mar 20 1753:00	Delta 7925-9.5	-	D303	2.033	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2004-014	2453116.21	2004 Apr 20 1657:24	Delta 7920-10C	-	D304	3.145	BLS	OS	-	CG	Sat LEO L	spaceflightnow.com	-	-
2004-023	2453180.45	2004 Jun 23 2254:00	Delta 7925-9.5	-	D305	2.032	BLS	OS	-	CG	Sat MTO PO 1	spaceflightnow.com	-	-
2004-026	2453201.92	2004 Jul 15 1001:59	Delta 7920-10L	-	D306	3.112	BLS	OS	-	CG	Sat SSO L	spaceflightnow.com	-	-
2004-030	2453220.76	2004 Aug 3 0615:57	Delta 7925H	-	D307	1.108	BLS	DS	-	CG	Sat EEO PE	spaceflightnow.com	-	-
2004-045	2453315.74	2004 Nov 6 0539:00	Delta 7925-9.5	-	D308	2.032	BLS	OS	-	CG	Sat MTO PO 1	spaceflightnow.com	-	-
2004-047	2453330.22	2004 Nov 20 1716:01	Delta 7320-10C	-	D309	1.470	BLS	OS	-	CG	Sat LEO L	spaceflightnow.com	-	-
2005-001	2453383.28	2005 Jan 12 1847:08	Delta 7925-9.5	-	D311	0.973	BLS	DS	-	CG	Sat EEO PE	spaceflightnow.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2005-018	2453510.93	2005 May 20 1022:01	Delta 7320-10C	-	D312	1.420	BLS	OS	-	CG	Sat SSO P	spaceflightnow.com	-	-
2005-038	2453639.65	2005 Sep 26 0337:00	Delta 7925-9.5	-	D313	2.032	BLS	OS	-	CG	Sat MTO L	spaceflightnow.com	-	-
2006-016	2453853.92	2006 Apr 28 1002:16	Delta 7420-10C	-	D314	1.621	BLS	OS	-	CG	Sat SSO L	spaceflightnow.com	-	-
2006-024	2453908.43	2006 Jun 21 2215	Delta 7925-9.5	-	D316	1.500	BLS	OS	-	CG	Sat GTO BO	spaceflightnow.com	-	-
2006-042	2454004.28	2006 Sep 25 1850	Delta 7925-9.5	-	D318	2.032	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2006-047	2454034.54	2006 Oct 26 0052:00	Delta 7925-10L	-	D319	1.240	BLS	DS	-	CG	Sat EEO BE	spaceflightnow.com	-	-
2006-052	2454057.30	2006 Nov 17 1912:00?	Delta 7925-9.5	-	D321	2.032	BLS	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2006-057	2454084.38	2006 Dec 14 2100:00	Delta 7920-10C	-	D322	2.300	ULAB	OS	-	CG	Sat LEO O	spaceflightnow.com	-	-
2007-004	2454149.46	2007 Feb 17 2301:00	Delta 7925-10C	-	D323	0.675	ULAB	DS	-	CG	Sat HEO LO	spaceflightnow.com	-	-
2007-023	2454259.61	2007 Jun 8 0234:00	Delta 7420-10C	-	D324	1.870	ULAB	OS	-	CG/OG	Sat SSO L	spaceflightnow.com	-	-
2007-034	2454316.89	2007 Aug 4 0926:34	Delta 7925-9.5	-	D325	0.680	ULAB	DS	-	CG	Sat EEO OE	spaceflightnow.com	-	-
2007-041	2454362.27	2007 Sep 18 1835:00	Delta 7920-10C	-	D326	2.500	ULAB	OS	-	CO	Sat SSO L	spaceflightnow.com	-	-
2007-043	2454370.98	2007 Sep 27 1134:00	Delta 7925H	-	D327	1.218	ULAB	DS	-	CG	Sat EEO OE	spaceflightnow.com	-	-
2007-047	2454391.02	2007 Oct 17 1223:00	Delta 7925-9.5	-	D328	2.032	ULAB	OS	-	CG	Sat MTO BO 1	spaceflightnow.com	-	-
2007-059	2454443.61	2007 Dec 9 0231:42	Delta 7420-10C	-	D330	1.900	ULAB	OS	-	CG/OG	Sat SSO L	spaceflightnow.com	-	-
2007-062	2454455.34	2007 Dec 20 2004:00	Delta 7925-9.5	-	D331	2.032	ULAB	OS	-	CG	Sat GTO BO 1	spaceflightnow.com	-	-
2008-012	2454540.76	2008 Mar 15 0610	Delta 7925-9.5	-	D332	2.032	ULAB	OS	-	CG	Sat GTO BO 1	spaceflightnow.com	-	-
2008-029	2454629.17	2008 Jun 11 1605:01	Delta 7920H	-	D333	4.277	ULAB	OS	-	CG	Sat LEO P	spaceflightnow.com	-	-
2008-032	2454637.82	2008 Jun 20 0746:25	Delta 7320-10C	-	D334	0.506	ULAB	OS	-	CG	Sat LEO B	spaceflightnow.com	-	-
2008-042	2454716.29	2008 Sep 6 1850:57	Delta 7420-10C	-	D335	1.923	ULAB	OS	-	CO	Sat SSO P	spaceflightnow.com	-	-
2008-054	2454764.60	2008 Oct 25 0228:25	Delta 7420-10C	-	D336	1.900	ULAB	OS	-	CG/OG	Sat SSO L	spaceflightnow.com	-	-
2009-005	2454868.93	2009 Feb 6 1022:00	Delta 7320-10C	-	D338	1.420	ULAB	OS	-	CG	Sat SSO P	spaceflightnow.com	-	-
2009-011	2454897.66	2009 Mar 7 0349:57	Delta 7925-10L	-	D339	1.060	ULAB	DS	-	CG	Sat EEO BE	spaceflightnow.com	-	-
2009-014	2454914.86	2009 Mar 24 0834:00	Delta 7925-9.5	-	D340	2.032	ULAB	OS	-	CG	Sat MTO PO 1	spaceflightnow.com	-	-
2009-023	2454957.35	2009 May 5 2024:26	Delta 7920-10C	-	D341	2.000	ULAB	OS	-	CG	Sat SSO P	spaceflightnow.com	-	-
2009-043	2455060.94	2009 Aug 17 1035:00	Delta 7925-9.5	-	D343	2.032	ULAB	OS	-	CG	Sat MTO PO 1	spaceflightnow.com	-	-
2009-052	2455100.01	2009 Sep 25 1220:00	Delta 7920-10C	-	D344	2.244	ULAB	OS	-	CG	Sat LEO P	spaceflightnow.com	-	-
2009-055	2455113.29	2009 Oct 8 1851:01	Delta 7920-10C	-	D345	2.615	ULAB	OS	-	CO	Sat SSO L	spaceflightnow.com	-	-
2009-071	2455180.09	2009 Dec 14 1409:33	Delta 7320-10C	-	D347	0.678	ULAB	OS	-	CG	Sat SSO B	spaceflightnow.com	-	-
2010-060	2455506.60	2010 Nov 6 0220:03	Delta 7420-10C	-	D350	1.900	ULAB	OS	-	CG/OG	Sat SSO L	spaceflightnow.com	-	-
2011-024	2455723.10	2011 Jun 10 1420:13	Delta 7320-10C	-	D354	1.350	ULAB	OS	-	CG/OG	Sat SSO L	spaceflightnow.com	-	-
2011-046	2455815.05	2011 Sep 10 1308:52	Delta 7920H	-	D356	0.614	ULAB	DS	-	CG	Sat EEO E	spaceflightnow.com	-	-
2011-061	2455862.91	2011 Oct 28 0948:02	Delta 7920-10C	-	D357	2.138	ULAB	OS	-	CG	Sat SSO P	nasaspaceflight.com	-	-
2014-035	2456840.91	2014 Jul 2 0956:23	Delta 7320-10C	-	D367	0.454	ULAB	OS	-	CG	Sat SSO B	nasaspaceflight.com	-	-
2015-003	2457054.10	2015 Jan 31 1422:00	Delta 7320-10C	-	D370	0.956	ULAB	OS	-	CG	Sat SSO D	nasaspaceflight.com	-	-
2017-073	2458075.91	2017 Nov 18 0947:36	Delta 7920-10C	-	D378	2.231	ULAB	OS	-	CG	Sat SSO D	nasaspaceflight.com	-	-
2018-070	2458377.04	2018 Sep 15 1302	Delta 7420-10C	-	D381	1.592	ULAB	OS	-	CG	Sat LEO D	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2011-S16	2455688.46	2011 May 6 2302	Tianying-3C	-	Kunpeng-1	-	-	-	-	HAI	-	-	-	197	-	-
2013-S24	2456387.41	2013 Apr 4 2155	Tianying-3E	-	Kunpeng-1	-	-	-	-	HAI	-	-	-	191	-	-
2016-S28	2457505.21	2016 Apr 26 1700	Tianying-3F	-	Kunpeng-1B	-	-	-	-	HAI	-	-	-	316	-	-
2021-S84	2459565.77	2021 Dec 17 0630	Huayi-1	-	HY-1A	Huozhong-1	-	-	-	JQ?	-	-	-	250	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2011-S16	2455688.46	2011 May 6 2302	Tianying-3C	-	Kunpeng-1	0.000	CSSAR	SS	-	CSSAR/	Ionos	Wire	-	-
2013-S24	2456387.41	2013 Apr 4 2155	Tianying-3E	-	Kunpeng-1	0.000	CSSAR	SS	-	CSSAR/	Ionos	nasaspaceflight.com	-	-
2016-S28	2457505.21	2016 Apr 26 1700	Tianying-3F	-	Kunpeng-1B	0.000	CSSAR	SS	-	CSSAR/	Ionos	Wire	-	-
2021-S84	2459565.77	2021 Dec 17 0630	Huayi-1	-	HY-1A	0.000	HUAYI	SS	-	HUOPI/XZKJ/	Micrograv/Bio	cn.chinadaily.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-S15	2436606.39	1959 Feb 6 2122	Titan I	-	A-3	P200 RV	Dummy St 2	-	-	CC	LC15	-	-	200?	448	BOA500
1959-S17	2436625.32	1959 Feb 25 1945	Titan I	-	A-5	P200 RV	Dummy St 2	-	-	CC	LC15	-	-	200?	483	BOA500
1959-S41	2436662.22	1959 Apr 3 1711	Titan I	-	A-4	P200 RV	Dummy St 2	-	-	CC	LC15	-	-	200?	233	BOA500
1959-S60	2436693.27	1959 May 4 1830	Titan I	-	A-6	P200 RV	Dummy St 2,Sep test	-	-	CC	LC15	-	-	200?	563	BOA500
1959-A137	2436795.25	1959 Aug 14 1756	Titan I	-	B-5	P13 RV	-	-	-	CC	LC19	-	-	0?	0	BOA3750
1959-A204	2436915.22	1959 Dec 12 1711	Titan I	-	C-3	RVX-3	-	-	-	CC	LC16	-	-	0	0	BOA6020
1960-S29	2436967.26	1960 Feb 2 1808	Titan I	-	B-7A	P13 RV	B-6 Stage 2	-	-	CC	LC19	-	-	1000?	3752	BOA3750
1960-A33	2436970.41	1960 Feb 5 2146	Titan I	-	C-4	RVX-3	-	-	-	CC	LC16	-	-	0?	10	BOA6020
1960-S38	2436989.17	1960 Feb 24 1603	Titan I	-	G-4	RVX-4A	-	-	-	CC	LC15	-	-	1000?	8038	BOA8045
1960-A63	2437002.25	1960 Mar 8 1800?	Titan I	-	C-1	P13 RV	-	-	-	CC	LC16	-	-	100?	796	BOA6020
1960-S57	2437016.41	1960 Mar 22 2148	Titan I	-	G-5	RVX-4A	?	-	-	CC	LC15	-	-	1000?	7971	BOA8045
1960-S72	2437033.26	1960 Apr 8 1811	Titan I	-	C-5	RVX-3	-	-	-	CC	LC16	-	-	1000?	1104	BOA6020
1960-S78	2437046.37	1960 Apr 21 2055	Titan I	-	G-6	RVX-4A	-	-	-	CC	LC15	-	-	1000?	7928	BOA8045
1960-S86	2437053.35	1960 Apr 28 2018	Titan I	-	C-6	P13 RV	-	-	-	CC	LC16	-	-	1000?	6008	BOA6020
1960-S97	2437068.39	1960 May 13 2125	Titan I	-	G-7	Mk 4-1 RV	-	-	-	CC	LC15	-	-	1000?	8133	ASC
1960-S107	2437082.22	1960 May 27 1720	Titan I	-	G-9	Mk 4-1A RV	-	-	-	CC	LC16	-	-	1000?	8140	ASC
1960-S144	2437110.50	1960 Jun 25 0004	Titan I	-	G-10	Mk 4-1 RV	-	-	-	CC	LC15	-	-	1000?	8133	ASC
1960-A160	2437117.23	1960 Jul 1 1729	Titan I	-	J-2	Mk 4-2 RV	-	-	-	CC	LC20	-	-	0	0	ASC
1960-S200	2437144.40	1960 Jul 28 2138	Titan I	-	J-4	Mk 4-1 RV	-	-	-	CC	LC20	-	-	100?	155	ASC
1960-S230	2437157.45	1960 Aug 10 2246	Titan I	-	J-7	Mk 4-2 RV	-	-	-	CC	LC19	-	-	1000?	7926	ASC
1960-S258	2437177.28	1960 Aug 30 1848	Titan I	-	J-5	Mk 4-1 RV	-	-	-	CC	LC20	-	-	1000?	8134	ASC
1960-S292	2437206.06	1960 Sep 28 1332	Titan I	-	J-8	Mk 4-2 RV	-	-	-	CC	LC19	-	-	1000?	8134	ASC
1960-S296	2437207.10	1960 Sep 29 1420	Titan I	-	G-8	RVX-3B	-	-	-	CC	LC15	-	-	1000?	9438	BOA16100
1960-S311	2437215.20	1960 Oct 7 1642	Titan I	-	J-3	Mk 4-2 RV	-	-	-	CC	LC20	-	-	1000?	8134	ASC
1960-S336	2437232.47	1960 Oct 24 2316	Titan I	-	J-6	Mk 4-1 RV	-	-	-	CC	LC19	-	-	1000?	9908	BOA9900
1960-A287	2437272.73	1960 Dec 4 0535	Titan I	-	V-2	Dummy RV?	-	-	-	V	OSTF	-	-	0	0	-
1960-A306	2437289.43	1960 Dec 20 2221	Titan I	-	J-9	Mk 4-4 RV	-	-	-	CC	LC20	-	-	100?	730	(ASC)
1961-A27	2437320.37	1961 Jan 20 2053	Titan I	-	AJ-10	Mk 4-1 RV	-	-	-	CC	LC19	-	-	100?	695	(ASC)
1961-S41	2437340.75	1961 Feb 10 0555	Titan I	-	AJ-11	Mk 3-2b RV	-	-	-	CC	LC20	-	-	1000?	8124	ASC
1961-S55	2437351.54	1961 Feb 21 0100	Titan I	-	AJ-13	Mk 4-4 RV	-	-	-	CC	LC19	-	-	1000?	8126	ASC
1961-A70	2437361.57	1961 Mar 3 0145	Titan I	-	AJ-12	Mk 4-1 RV	-	-	-	CC	LC20	-	-	200?	1353	BOA9820
1961-S96	2437387.65	1961 Mar 29 0333	Titan I	-	AJ-14	Mk 4-2a RV	-	-	-	CC	LC19	-	-	1000?	8123	ASC
1961-A98	2437390.36	1961 Mar 31 2044	Titan I	-	AJ-15	Mk 3-2 RV	-	-	-	CC	LC20	-	-	0?	20	BOA16100
1961-S134	2437423.34	1961 May 3 2010:44	Titan I	-	VS-1	Mk 4-6B RV No. 001	Dummy St2	SILVER SADDLE	-	V	SLTF	-	-	116	241	BOA240
1961-S156	2437443.64	1961 May 24 0327	Titan I	-	AJ-16	Mk 4-2b RV?	-	-	-	CC	LC20	-	-	1000?	8126	ASC
1961-A156	2437474.64	1961 Jun 24 0328	Titan I	-	M-1	Mk 4-4 RV	-	-	-	CC	LC19	-	-	100?	702	BOA8040
1961-S211	2437501.58	1961 Jul 21 0200	Titan I	-	AJ-18	Mk 4-2a RV/Mk I Decoy	-	-	-	CC	LC20	-	-	1000?	8130	ASC
1961-S220	2437506.30	1961 Jul 25 1905	Titan I	-	M-2	Mk 4-4 RV	-	-	-	CC	LC19	-	-	1000?	8041	BOA8040
1961-S229	2437515.57	1961 Aug 4 0140	Titan I	-	AJ-19	Mk 4-4 RV/Mk II Decoy	-	-	-	CC	LC20	-	-	1000?	8128	ASC
1961-S268	2437549.56	1961 Sep 7 0130	Titan I	-	AJ-17	Mk 4-2a RV/Capsule	-	-	-	CC	LC20	-	-	1000?	9825	BOA9820
1961-S270	2437550.56	1961 Sep 8 0130	Titan I	-	M-3	Mk 4-4 RV	-	-	-	CC	LC19	-	-	1000?	8093	ASC
1961-S295	2437566.36	1961 Sep 23 2036	Titan I	-	SM-68-2	Mk 4-5H RV	R&D	BIG SAM	-	V	395-A1	-	-	1000?	6349	WAKE
1961-S301	2437571.58	1961 Sep 29 0152	Titan I	-	AJ-20	Mk 4-4 RV	-	-	-	CC	LC20	-	-	1000?	8128	ASC
1961-S325	2437579.56	1961 Oct 7 0130	Titan I	-	M-4	Mk 4-4 RV	-	-	-	CC	LC19	-	-	1000?	7965	ASC
1961-S346	2437597.48	1961 Oct 24 2328	Titan I	-	AJ-21	Mk 4-1 RV	Midas target	-	-	CC	LC20	-	-	1000?	9819	BOA9820
1961-S386	2437625.52	1961 Nov 22 0030	Titan I	-	AJ-22	Nike TVX-3	NTMP	-	-	CC	LC20	-	-	1000?	8121	ASC
1961-S393	2437633.57	1961 Nov 30 0140	Titan I	-	M-5	Mk 4-4 RV	-	-	-	CC	LC19	-	-	1000?	8128	ASC
1961-S421	2437647.50	1961 Dec 14 0005	Titan I	-	AJ-23	Nike TVX-3	NTMP TV	-	-	CC	LC20	-	-	1000?	8125	ASC
1961-S427	2437649.56	1961 Dec 16 0120	Titan I	-	M-6	Mk 4-4 RV	-	-	-	CC	LC19	-	-	100?	709	(ASC)
1962-S20	2437685.54	1962 Jan 21 0057	Titan I	-	SM-68-4	Mk 4-5B RV	SAC Demo	DOUBLE MARTINI	-	V	395-A3	-	-	100?	100	WAKE
1962-S29	2437694.48	1962 Jan 29 2330:56	Titan I	-	M-7	Nike TVX-3	NTMP	-	-	CC	LC19	-	-	1000?	8128	ASC
1962-M01	2437718.50	1962 Feb 23	Titan I	-	SM-68-18	Mk 4 RV	R&D Cat II	BLUE GANDER	-	V	395-A1	-	-	50?	426	(ASC)?
1962-S70	2437740.26	1962 Mar 16 1808:58	Titan II	-	N-2	Mk 6 RV	-	-	-	CC	LC16	-	-	1300?	8130?	ASC
1962-S125	2437789.40	1962 May 4 2143	Titan I	-	SM-34	Mk 4 RV	R&D Cat II	SILVER TOP	-	V	395-A1	-	-	1000?	-	-
1962-S174	2437823.27	1962 Jun 7 1821:37	Titan II	-	N-1	Mk 6 RV [DST?]	-	-	-	CC	LC15	-	-	1300?	-	-
1962-S238	2437857.29	1962 Jul 11 1851:54	Titan II	-	N-6	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1962-S263	2437871.18	1962 Jul 25 1617:20	Titan II	-	N-4	Mk 6 RV	-	-	-	CC	LC16	-	-	1300?	-	-
1962-S332	2437920.16	1962 Sep 12 1550:00	Titan II	-	N-5	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1962-S381	2437943.50	1962 Oct 6	Titan I	-	SM-35	Mk 4 RV	R&D Cat II	TIGHT BRACELET	-	V	395-A1	-	-	1000?	-	-
1962-S387	2437950.18	1962 Oct 12 1624:03	Titan II	-	N-9	Mk 6 RV	-	-	-	CC	LC16	-	-	1300?	-	-
1962-S435	2437964.21	1962 Oct 26 1705:34	Titan II	-	N-12	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1962-S531	2438003.50	1962 Dec 5	Titan I	-	SM-11	Mk 4 RV	R&D Cat II	YELLOW JACKET	-	V	395-A1	-	-	1000?	-	-
1962-S540	2438005.36	1962 Dec 6 2031:37	Titan II	-	N-11	Mk 4 RV	-	-	-	CC	LC16	-	-	500?	-	-
1962-S575	2438018.34	1962 Dec 19 2008:28	Titan II	-	N-13	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1963-S10	2438039.73	1963 Jan 10 0531:02	Titan II	-	N-15	Mk 6 RV	-	-	-	CC	LC16	-	-	500?	-	-
1963-S25	2438058.50	1963 Jan 29	Titan I	-	SM-8	Mk 4 RV	R&D Cat II	TEN MEN	-	V	395-A1	-	-	1000?	6350?	WAKE
1963-S38	2438067.25	1963 Feb 6 1758:24	Titan II	-	N-16	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1963-A24	2438077.41	1963 Feb 16 2145	Titan II	-	N-7	Mk 6 RV	R&D	AWFUL TIRED	-	V	395-C	-	-	5	-	-
1963-S108	2438110.14	1963 Mar 21 1522:48	Titan II	-	N-18	Mk 6 RV	-	-	-	CC	LC15	-	-	1300?	-	-
1963-S126	2438118.86	1963 Mar 30 0845	Titan I	-	SM-3	Nike TVX-32	NTMP K-17	YOUNG BLOOD	-	V	395-A2	-	-	1000?	-	-
1963-S133	2438124.70	1963 Apr 5 0452:37	Titan I	-	V-1	Mk 4 RV	-	HALF MOON	-	V	395-A1	-	-	1000?	-	-
1963-S150	2438132.50	1963 Apr 13	Titan I	-	SM-1	Nike TVX-33	NTMP K-21	RAMP ROOSTER	-	V	395-A3	-	-	1000?	-	-
1963-S164	2438139.33	1963 Apr 19 2000:11	Titan II	-	N-21	Mk 6 RV	R&D	-	-	CC	LC15	-	-	500?	-	-
1963-S179	2438146.50	1963 Apr 27	Titan II	-	N-8	Mk 6 RV	R&D	DINNER PARTY	-	V	395-C	-	-	1300?	-	-
1963-A68	2438150.93	1963 May 1 1015	Titan I	-	V-4	Mk 4 RV	R&D	MARES TAIL	-	V	395-A1	-	-	0	-	-
1963-S193	2438159.17	1963 May 9 1608:32	Titan II	-	N-14	Mk 6 RV	R&D	-	-	CC	LC16	-	-	1000?	-	-
1963-S199	2438162.50	1963 May 13	Titan II	-	N-19	Mk 6 RV	R&D	FLYING FROG	-	V	395-D	-	-	1300?	-	-
1963-S233	2438174.23	1963 May 24 1733:05	Titan II	-	N-17	Mk 6 RV	R&D	-	-	CC	LC15	-	-	1300?	-	-
1963-A82	2438179.21	1963 May 29 1656:24	Titan II	-	N-20	Mk 6 RV	R&D	-	-	CC	LC16	-	-	6	-	-
1963-S286	2438200.50	1963 Jun 20	Titan II	-	N-22	Mk 6 RV	R&D	THREAD NEEDLE	-	V	395-C	-	-	1300?	-	-
1963-S340	2438226.50	1963 Jul 16	Titan I	-	SM-24	Mk 4 RV	DASO	SILVER SPUR	-	V	395-A2	-	-	1000?	-	-
1963-S389	2438256.50	1963 Aug 15	Titan I	-	SM-7	Nike TVX-13	DASO/NTMP K-26	HIGH RIVER	-	V	395-A1	-	-	1000?	-	-
1963-S400	2438263.39	1963 Aug 21 2123:55	Titan II	-	N-24	Mk 6 RV/Pod T-202	R&D	-	-	CC	LC15	-	-	1300?	-	-
1963-S414	2438271.50	1963 Aug 30	Titan I	-	SM-56	Mk 4 RV	DASO	POLAR ROUTE	-	V	395-A3	-	-	1000?	-	-
1963-S444	2438289.50	1963 Sep 17	Titan I	-	SM-83	Mk 4 RV	DASO	DAILY MAIL	-	V	395-A2	-	-	1000?	-	-
1963-S450	2438295.50	1963 Sep 23	Titan II	-	N-23	Mk 6 RV	R&D	TAR TOP	-	V	395-D	-	-	1300?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S533	2438335.34	1963 Nov 1 2014:54	Titan II	-	N-25	Mk 6 RV/Pod T	R&D	-	-	CC	LC15	-	-	1300?	-	-
1963-S545	2438342.50	1963 Nov 9	Titan II	-	N-27	Mk 6 RV	R&D	FIRE TRUCK	-	V	395-C	-	-	1300?	-	-
1963-S554	2438348.07	1963 Nov 14 1342	Titan I	-	SM-68	Nike TVX-32	DASO/NTMP KX-24	FAST RIDE	-	V	395-A1	-	-	1000?	-	-
1963-S599	2438376.33	1963 Dec 12 2000:01	Titan II	-	N-29	Mk 6 RV/Pod T	R&D	-	-	CC	LC15	-	-	1300?	-	-
1963-S603	2438380.52	1963 Dec 17 0030	Titan II	-	N-28	Mk 6 RV/Pod T	R&D	USEFUL TASK	-	V	395-D	-	-	1300?	-	-
1964-S31	2438410.35	1964 Jan 15 2030:19	Titan II	-	N-31	Mk 6 RV/Pod T	R&D	-	-	CC	LC15	-	-	1300?	-	-
1964-S47	2438417.50	1964 Jan 23	Titan II	-	N-26	Mk 6 RV	R&D	RED SAILS	-	V	395-C	-	-	1300?	-	KMR
1964-S101	2438443.18	1964 Feb 17 1615	Titan II	-	B-15	Mk 6 RV	R&D	SAFE CONDUCT	-	V	395-B	-	-	1300?	-	-
1964-S119	2438452.34	1964 Feb 26 2014:44	Titan II	-	N-32	Mk 6 RV	R&D	-	-	CC	LC15	-	-	1300?	-	-
1964-S147	2438467.50	1964 Mar 13	Titan II	-	N-30	Mk 6 RV	R&D	APPLE PIE	-	V	395-C	-	-	1300?	-	KMR
1964-S165	2438478.36	1964 Mar 23 2041:57	Titan II	-	N-33	Mk 6 RV/Pod T-207	R&D	-	-	CC	LC15	-	-	1300?	-	-
1964-018	2438494.17	1964 Apr 8 1600:01	Titan II GLV	-	GLV-1	Gemini 1	Gemini SC1	-	-	CC	LC19	-	-	309	-	-
1964-S195	2438495.38	1964 Apr 9 2104:50	Titan II	-	N-3A	Mk 6 RV/Pod RVIP	R&D	-	-	CC	LC15	-	-	1300?	-	-
1964-S393	2438607.14	1964 Jul 30 1520:36	Titan II	-	B-28 (62-009)	Mk 6 RV	DASO-1	COBRA SKIN	-	V	395-D	-	-	1300?	8123	ENW 4
1964-S417	2438619.14	1964 Aug 11 1522:43	Titan II	-	B-9 (61-2763)	Mk 6 RV	DASO-2	DOUBLE TALLEY	-	V	395-C	-	-	1300?	7658	KMR 24
1964-S425	2438621.11	1964 Aug 13 1436:32	Titan II	-	B-7 (61-2761)	Mk 6 RV	DASO-3	GENTLE ANNIE	-	V	395-B	-	-	1300?	7657	KMR 24
1964-F10	2438640.13	1964 Sep 1 1500:06	Titan IIIA	-	3A-2	Transtage	Lead Dummy Payload	-	-	CC	LC20	-	-	160?	-	-
1964-S499	2438671.20	1964 Oct 2 1643:57	Titan II	-	B-1 (61-2755)	Mk 6 RV	DASO-4	BLACK WIDOW	-	V	395-C	-	-	1300?	7658	KMR
1964-S572	2438704.21	1964 Nov 4 1658:59	Titan II	-	B-32 (62-013)	Mk 6 RV	DASO-5	HIGH RIDER	-	V	395-D	-	-	1300?	7659	KMR
1964-S672	2438737.50	1964 Dec 8	Titan I	-	SM-85	Mk 4 RV	ST WEST WIND I	WEST WIND I	-	V	395-A1	-	-	1000?	-	ENW
1964-081	2438740.20	1964 Dec 10 1653:33	Titan IIIA	-	3A-1	Transtage	Lead Dummy Payload	-	-	CC	LC20	-	-	182	-	-
1965-S37	2438775.00	1965 Jan 14 1200	Titan I	-	SM-33	Mk 4 RV	ST/ABRES	WEST WIND III	-	V	395-A3	-	-	1000?	-	-
1965-U02	2438780.09	1965 Jan 19 1404:00	Titan II GLV	-	GLV-2	Gemini 2	Gemini GT-2	-	-	CC	LC19	-	-	169	-	-
1965-008	2438803.14	1965 Feb 11 1519:05	Titan IIIA	-	3A-3	LES 1	Payload Truss	-	-	CC	LC20	-	-	2815	-	-
1965-S134	2438824.50	1965 Mar 5	Titan I	-	SM-80	Nike TVX-30-3	ST/ABRES NT KX-97	WEST WIND II	-	V	395-A2	-	-	1000?	-	-
1965-024	2438843.10	1965 Mar 23 1424:00	Titan II GLV	-	GLV-3	Gemini 3	Gemini SC3	-	-	CC	LC19	-	-	233	-	-
1965-S191	2438844.59	1965 Mar 25 0215:16	Titan II	-	B-60	Mk 6 RV	OT	ARCTIC SUN	-	V	395-B	-	-	1300?	-	ENW
1965-S240	2438867.31	1965 Apr 16 1919:55	Titan II	-	B-45	Mk 6 RV	OT	BEAR HUG	-	V	395-C	-	-	1300?	-	ENW?
1965-S271	2438881.30	1965 Apr 30 1905:07	Titan II	-	B-54	Mk 6 RV	OT	CARD DECK	-	V	395-D	-	-	1300?	-	ENW
1965-034	2438887.13	1965 May 6 1500:03	Titan IIIA	-	3A-6	LES 2	-	-	-	CC	LC20	-	-	15105	-	-
1965-S302	2438902.50	1965 May 21 2353:25	Titan II	-	B-51	Mk 6 RV	OT	FRONT SIGHT	-	V	395-B	-	-	1300?	-	ENW
1965-043	2438915.14	1965 Jun 3 1516:00	Titan II GLV	-	GLV-4	Gemini 4	Gemini SC4	-	-	CC	LC19	-	-	282	-	-
1965-S356	2438926.06	1965 Jun 14 1331:30	Titan II	-	B-22	Mk 6 RV	OT	GOLD FISH	-	V	395-C	-	-	1300?	-	-
1965-047	2438930.08	1965 Jun 18 1400:04	Titan IIIC	-	3C-7	Transtage	Lead Ballast	-	-	CC	LC40	-	-	189	-	-
1965-S413	2438942.10	1965 Jun 30 1429:30	Titan II	-	B-30	Mk 6 RV	OT	BUSY BEE	-	V	395-D	-	-	1300?	-	-
1965-S429	2438963.26	1965 Jul 21 1818:46	Titan II	-	B-62	Mk 6 RV	OT	LONG BALL	-	V	395-B	-	-	1300?	-	-
1965-S468	2438989.34	1965 Aug 16 2004:56	Titan II	-	B-6	Mk 6 RV	OT	MAGIC LAMP	-	V	395-C	-	-	1300?	-	ENW
1965-068	2438994.08	1965 Aug 21 1400:00	Titan II GLV	-	GLV-5	Gemini 5	Gemini SC5	-	-	CC	LC19	-	-	338	-	-
1965-S479	2438998.50	1965 Aug 26 0004:43	Titan II	-	B-19	Mk 6 RV	OT	NEW ROLE	-	V	395-D	-	-	1300?	-	ENW
1965-S505	2439025.09	1965 Sep 21 1404:23	Titan II	-	B-58	Mk 6 RV	OT	BOLD GUY	-	V	395-B	-	-	1300?	-	-
1965-082	2439049.22	1965 Oct 15 1723:59	Titan IIIC	-	3C-4	OV2-1	LCS 2	-	-	CC	LC40	-	-	774	-	-
1965-S565	2439054.26	1965 Oct 20 1809:22	Titan II	-	B-33	Mk 6 RV	OT	POWER BOX	-	V	395-C	-	-	1300?	-	-
1965-S653	2439091.92	1965 Nov 27 1000:50	Titan II	-	B-20	Mk 6 RV	OT	RED WAGON	-	V	395-D	-	-	1300?	-	-
1965-S660	2439095.11	1965 Nov 30 1444:33	Titan II	-	B-4	Mk 6 RV	OT	CROSS FIRE	-	V	395-B	-	-	1300?	-	-
1965-100	2439099.31	1965 Dec 4 1930:04	Titan II GLV	-	GLV-7	Gemini 7	Gemini SC7	-	-	CC	LC19	-	-	318	-	-
1965-A245	2439107.12	1965 Dec 12 1454:06	Titan II GLV	-	GLV-6	Gemini 6	Gemini SC6	Pad abort	-	CC	LC19	-	-	0	-	-
1965-104	2439110.07	1965 Dec 15 1337:26	Titan II GLV	-	GLV-6	Gemini 6	Gemini SC6	-	-	CC	LC19	-	-	276	-	-
1965-108	2439116.08	1965 Dec 21 1400:01	Titan IIIC	-	3C-8	OV2-3/LES 3/LES 4	LES 4	-	-	CC	LC41	-	-	33493	-	-
1965-S694	2439117.09	1965 Dec 22 1410:45	Titan II	-	B-73	Mk 6 RV	OT	SEA ROVER	-	V	395-C	-	-	1300?	-	-
1966-S95	2439159.97	1966 Feb 3 1111:03	Titan II	-	B-87	Mk 6 RV	OT	WINTER ICE	-	V	395-D	-	-	1300?	-	-
1966-S115	2439173.91	1966 Feb 17 0945:52	Titan II	-	B-61	Mk 6 RV	OT	BLACK HAWK	-	V	395-B	-	-	1300?	-	-
1966-020	2439201.20	1966 Mar 16 1641:02	Titan II GLV	-	GLV-8	Gemini 8	Gemini SC8	-	-	CC	LC19	-	-	299	-	-
1966-S190	2439209.90	1966 Mar 25 0942:03	Titan II	-	B-16	Mk 6 RV	OT/NTMP KX-52	CLOSE TOUCH	-	V	395-C	-	-	1300?	-	-
1966-S211	2439221.18	1966 Apr 5 1620:19	Titan II	-	B-50	Mk 6 RV	OT	GOLD RING	-	V	395-D	-	-	1300?	-	-
1966-S224	2439235.86	1966 Apr 20 0844:54	Titan II	-	B-55	Mk 6 RV	OT	LONG LIGHT	-	V	395-B	-	-	1300?	-	-
1966-S278	2439269.50	1966 May 24	Titan II	-	B-91	Mk 6 RV	FOT	SILVER BULLET	-	V	395-C	-	-	1300?	-	-
1966-047	2439280.07	1966 Jun 3 1339:33	Titan II GLV	-	GT-9	Gemini 9	Gemini SC9	-	-	CC	LC19	-	-	294	-	-
1966-053	2439293.08	1966 Jun 16 1400:01	Titan IIIC	-	3C-11	IDCSP	GGTS	-	-	CC	LC41	-	-	36136	-	-
1966-066	2439325.43	1966 Jul 18 2220:27	Titan II GLV	-	GLV-10	Gemini 10	Gemini SC10	-	-	CC	LC19	-	-	762	-	-
1966-S385	2439328.50	1966 Jul 22	Titan II	-	B-95	Mk 6 RV	ST	GIANT TRAIN	-	V	395-B	-	-	1300?	-	-
1966-069	2439336.27	1966 Jul 29 1830:20	Titan IIIB	-	3B-1	KH-8	GAMBIT-3 Mission 4301	DAILY MAIL	-	VS	SLC4W	-	-	274	-	-
1966-F08	2439364.08	1966 Aug 26 1359:56	Titan IIIC	-	3C-12	IDCSP	IDCSP	-	-	CC	LC41	-	-	25	-	-
1966-081	2439381.11	1966 Sep 12 1442:27	Titan II GLV	-	GLV-11	Gemini 11	Gemini SC11	-	-	CC	LC19	-	-	1373	-	-
1966-S488	2439384.50	1966 Sep 16	Titan II	-	B-40	Mk 6 RV	FOT/NTMP KX-53	BLACK RIVER	-	V	395-C	-	-	1300?	-	-
1966-086	2439397.30	1966 Sep 28 1907	Titan IIIB	-	3B-2	KH-8	GAMBIT-3 Mission 4302	BUSY SCHEME	-	VS	SLC4W	-	-	296	-	-
1966-099	2439433.08	1966 Nov 3 1350:42	Titan IIIC	-	3C-9	Gemini B/MOL	OV4-3	-	-	CC	LC40	-	-	427	-	-
1966-104	2439441.37	1966 Nov 11 2046:33	Titan II GLV	-	GLV-12	Gemini 12	Gemini SC12	-	-	CC	LC19	-	-	339	-	-
1966-S652	2439453.92	1966 Nov 24 1000	Titan II	-	B-68	Mk 6 RV	FOT	BUBBLE GIRL	-	V	395-B	-	-	1300?	-	-
1966-113	2439474.26	1966 Dec 14 1814	Titan IIIB	-	3B-3	KH-8	GAMBIT-3 Mission 4303	BUSY SKYROCKET	-	VS	SLC4W	-	-	401	-	-
1967-003	2439509.10	1967 Jan 18 1419:08	Titan IIIC	-	3C-13	IDCSP	IDCSP 8	-	-	CC	LC41	-	-	40655	-	-
1967-016	2439546.33	1967 Feb 24 1959	Titan IIIB	-	3B-4	KH-8	GAMBIT-3 Mission 4304	BUSY PALEFACE	-	VS	SLC4W	-	-	418	-	-
1967-S163	2439566.50	1967 Mar 17	Titan II	-	B-76	Mk 6 RV	FOT/NTMP KX-58	GIFT HORSE	-	V	395-C	-	-	1300?	-	-
1967-S208	2439592.50	1967 Apr 12	Titan II	-	B-81	Mk 6 RV	FOT	GLAMOR GIRL	-	V	395-B	-	-	1300?	-	-
1967-F04	2439607.25	1967 Apr 26 1800	Titan IIIB	-	3B-5	KH-8	GAMBIT-3 Mission 4305	BUSY TAILOR	-	VS	SLC4W	-	-	130?	-	-
1967-040	2439608.92	1967 Apr 28 1001:01	Titan IIIC	-	3C-10	Vela 4A/4B	Vela 4A	AMF	-	CC	LC41	-	-	150000	-	-
1967-064	2439662.18	1967 Jun 20 1615	Titan IIIB	-	3B-8	KH-8	GAMBIT-3 Mission 4306	BUSY PLAYMATE	-	VS	SLC4W	-	-	339	-	-
1967-S319	2439664.50	1967 Jun 23	Titan II	-	B-70	Mk 6 RV	FOT/NTMP KX-62	BUGGY WHEEL	-	V	395-B	-	-	1300?	-	-
1967-066	2439673.05	1967 Jul 1 1315:01	Titan IIIC	-	3C-14	IDCSP	IDCSP 16	-	-	CC	LC41	-	-	38325	-	-
1967-079	2439719.21	1967 Aug 16 1707	Titan IIIB	-	3B-9	KH-8	GAMBIT-3 Mission 4307	-	-	VS	SLC4W	-	-	484	-	-
1967-S431	2439744.50	1967 Sep 11	Titan II	-	B-21	Mk 6 RV	FOT GB44	GLOWING BRIGHT 44	-	V	395-B	-	-	1300?	-	-
1967-090	2439753.28	1967 Sep 19 1837	Titan IIIB	-	3B-10	KH-8	GAMBIT-3 Mission 4308	-	-	VS	SLC4W	-	-	422	-	-
1967-103	2439789.30	1967 Oct 25 1915	Titan IIIB	-	3B-11	KH-8	GAMBIT-3 Mission 4309	-	-	VS	SLC4W	-	-	431	-	-
1967-121	2439830.28	1967 Dec 5 1845	Titan IIIB	-	3B-12	KH-8	GAMBIT-3 Mission 4310	-	-	VS	SLC4W	-	-	456	-	-
1968-005	2439874.29	1968 Jan 18 1904	Titan IIIB	-	3B-13	KH-8	GAMBIT-3 Mission 4311	-	-	VS	SLC4W	-	-	433	-	-
1968-S155	2439915.12	1968 Feb 28 1500	Titan II	-	B-88	Mk 6 RV	FOT GT04T	GLORY TRIP 04T	-	V	395-B	-	-	1300?	-	-
1968-018	2439929.33	1968 Mar 13 1951	Titan IIIB	-	3B-14	KH-8	GAMBIT-3 Mission 4312	-	-	VS	SLC4W	-	-	416	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S250	2439948.50	1968 Apr 2	Titan II	-	B-36	Mk 6 RV	FOT GT10T	GLORY TRIP 10T	-	V	395-C	-	-	1300?	-	-
1968-031	2439964.21	1968 Apr 17 1700	Titan IIIB	-	3B-15	KH-8	GAMBIT-3 Mission 4313	-	-	VS	SLC4W	-	-	434	-	-
1968-047	2440013.23	1968 Jun 5 1733	Titan IIIB	-	3B-16	KH-8	GAMBIT-3 Mission 4314	-	-	VS	SLC4W	-	-	454	-	-
1968-S374	2440019.50	1968 Jun 12	Titan II	-	B-82	Mk 6 RV	FOT GT08T	GLORY TRIP 08T	-	V	395-C	-	-	1300?	-	-
1968-050	2440021.09	1968 Jun 13 1403:50	Titan IIIC	-	3C-16	IDCSP	IDCSP 20	-	-	CC	LC41	-	-	43412	-	-
1968-064	2440075.19	1968 Aug 6 1630	Titan IIIB	-	3B-17	KH-8	GAMBIT-3 Mission 4315	-	-	VS	SLC4W	-	-	452	-	-
1968-S466	2440090.04	1968 Aug 21 1300?	Titan II	-	B-53	Mk 6 RV	FOT GT18T	GLORY TRIP 18T	-	V	395-C	-	-	1300?	-	-
1968-074	2440110.27	1968 Sep 10 1830	Titan IIIB	-	3B-18	KH-8	GAMBIT-3 Mission 4316	-	-	VS	SLC4W	-	-	412	-	-
1968-081	2440125.82	1968 Sep 26 0737:01	Titan IIIC	-	3C-5	OV2-5/LES 6	OV2-5	-	-	CC	LC41	-	-	37427	-	-
1968-099	2440167.30	1968 Nov 6 1910	Titan IIIB	-	3B-19	KH-8	GAMBIT-3 Mission 4317	-	-	VS	SLC4W	-	-	394	-	-
1968-S588	2440179.50	1968 Nov 19	Titan II	-	B-3	Mk 6 RV	FOT GT26T	GLORY TRIP 26T	-	V	395-C	-	-	1300?	-	-
1968-108	2440195.31	1968 Dec 4 1923	Titan IIIB	-	3B-20	KH-8	GAMBIT-3 Mission 4318	-	-	VS	SLC4W	-	-	741	-	-
1969-007	2440244.30	1969 Jan 22 1910	Titan IIIB	-	3B-6	KH-8	GAMBIT-3 Mission 4319	-	-	VS	SLC4W	-	-	1094	-	-
1969-013	2440262.38	1969 Feb 9 2109:00	Titan IIIC	-	3C-17	Tacsat	Tacsat	-	-	CC	LC41	-	-	37324	-	-
1969-019	2440285.31	1969 Mar 4 1930	Titan IIIB	-	3B-7	KH-8	GAMBIT-3 Mission 4320	-	-	VS	SLC4W	-	-	468	-	-
1969-039	2440327.23	1969 Apr 15 1730	Titan IIIB	-	3B-21	KH-8	GAMBIT-3 Mission 4321	-	-	VS	SLC4W	-	-	470	-	-
1969-S335	2440361.50	1969 May 20	Titan II	-	B-83	Mk 6 RV	FOT GT39T	-	-	V	395-B	-	-	1300?	-	-
1969-046	2440364.83	1969 May 23 0757:01	Titan IIIC	-	3C-15	Vela 5A/5B	ERS 29	-	-	CC	LC41	-	-	150000	-	-
1969-050	2440376.20	1969 Jun 3 1649	Titan IIIB	-	3B-22	KH-8	GAMBIT-3 Mission 4322	-	-	VS	SLC4W	-	-	432	-	-
1969-074	2440457.17	1969 Aug 23 1600	Titan 23B	-	23B-1 (3B-23)	KH-8A?	GAMBIT-3 Mission 4323	-	-	VS	SLC4W	-	-	401	-	-
1969-095	2440519.26	1969 Oct 24 1810	Titan 23B	-	23B-2 (3B-24)	KH-8A	GAMBIT-3 Mission 4324	-	-	VS	SLC4W	-	-	757	-	-
1970-002	2440601.28	1970 Jan 14 1843	Titan 23B	-	23B-3 (3B-25)	KH-8A	GAMBIT-3 Mission 4325	-	-	VS	SLC4W	-	-	413	-	-
1970-027	2440684.95	1970 Apr 8 1050:01	Titan IIIC	-	3C-18	Vela 6A/6B	Vela 6A	-	-	CC	LC40	-	-	150000	-	-
1970-031	2440692.16	1970 Apr 15 1552	Titan 23B	-	23B-4 (3B-26)	KH-8A	GAMBIT-3 Mission 4326	-	-	VS	SLC4W	-	-	409	-	-
1970-048	2440763.12	1970 Jun 25 1450	Titan 23B	-	23B-5 (3B-27)	KH-8A	GAMBIT-3 Mission 4327	-	-	VS	SLC4W	-	-	421	-	-
1970-061	2440817.11	1970 Aug 18 1445	Titan 23B	-	23B-6 (3B-28)	KH-8A?	GAMBIT-3 Mission 4328	-	-	VS	SLC4W	-	-	443	-	-
1970-090	2440883.24	1970 Oct 23 1740	Titan 23B	-	23B-7 (3B-29)	KH-8A?	GAMBIT-3 Mission 4329	-	-	VS	SLC4W	-	-	433	-	-
1970-093	2440896.94	1970 Nov 6 1035:57	Titan IIIC	-	23C-1 (3C-19)	DSP 1	DSP 1	-	-	CC	LC40	-	-	36434	-	-
1971-005	2440973.26	1971 Jan 21 1820	Titan 23B	-	23B-8 (3B-30)	KH-8A	GAMBIT-3 Mission 4330	-	-	VS	SLC4W	-	-	417	-	-
1971-021	2441031.66	1971 Mar 21 0345	Titan 33B	-	33B-1 (3B-36)	OPS 4788	Jumpseat 1	-	-	VS	SLC4W	-	-	39321	-	-
1971-033	2441064.15	1971 Apr 22 1530	Titan 23B	-	23B-9 (3B-31)	KH-8A	GAMBIT-3 Mission 4331	-	-	VS	SLC4W	-	-	421	-	-
1971-039	2441076.82	1971 May 5 0743:01	Titan IIIC	-	23C-2 (3C-20)	DSP 2	DSP 3	-	-	CC	LC40	-	-	36517	-	-
1971-056	2441118.28	1971 Jun 15 1841	Titan IIID	-	23D-1	HEXAGON SV1	HEXAGON SV-1	-	-	VS	SLC4E	-	-	306	-	-
1971-S333	2441123.45	1971 Jun 20 2245	Titan II	-	B-12	Mk 6 SSTTP T1	SAFSCOM M1-17	-	-	V	395-C	-	-	1300?	-	-
1971-070	2441176.15	1971 Aug 12 1530	Titan 24B	-	24B-1 (3B-32)	KH-8A	GAMBIT-3 Mission 4332	-	-	VS	SLC4W	-	-	431	-	-
1971-S413	2441191.60	1971 Aug 28 0222	Titan II	-	B-100	Mk 6 SSTTP T2	SAFSCOM M2-1	-	-	V	395-C	-	-	1300?	-	-
1971-092	2441248.22	1971 Oct 23 1710	Titan 24B	-	24B-2 (3B-33)	KH-8A	GAMBIT-3 Mission 4333	-	-	VS	SLC4W	-	-	781	-	-
1971-095	2441258.63	1971 Nov 3 0309:06	Titan IIIC	-	23C-3 (3C-21)	DSCS II 1/2	DSCS II A-1	-	-	CC	LC40	-	-	37407	-	-
1972-002	2441337.27	1972 Jan 20 1836	Titan IIID	-	23D-2	HEXAGON SV2	HEXAGON SV-2	-	-	VS	SLC4E	-	-	555	-	-
1972-F01	2441363.92	1972 Feb 16 0959	Titan 33B	-	33B-2 (3B-37)	OPS 1844	Jumpseat 2	-	-	VS	SLC4W	-	-	400?	-	-
1972-010	2441377.90	1972 Mar 1 0939:28	Titan IIIC	-	23C-4 (3C-22)	DSP 3	DSP 4	-	-	CC	LC40	-	-	38168	-	-
1972-016	2441394.21	1972 Mar 17 1700	Titan 24B	-	24B-3 (3B-34)	KH-8A	GAMBIT-3 Mission 4334	-	-	VS	SLC4W	-	-	415	-	-
1972-F03	2441458.15	1972 May 20 1530	Titan 24B	-	24B-4 (3B-35)	KH-8A	GAMBIT-3 Mission 4335	-	-	VS	SLC4W	-	-	197	-	-
1972-S208	2441462.49	1972 May 24 2345	Titan II	-	B-46	Mk 6 SSTTP T3	SAFSCOM M2-10	-	-	V	395-C	-	-	1300?	-	-
1972-052	2441506.24	1972 Jul 7 1746	Titan IIID	-	23D-5	HEXAGON SV3	HEXAGON SV-3	-	-	VS	SLC4E	-	-	503	-	-
1972-068	2441562.23	1972 Sep 1 1736	Titan 24B	-	24B-5 (3B-39)	KH-8A	GAMBIT-3 Mission 4336	-	-	VS	SLC4W	-	-	427	-	-
1972-079	2441601.25	1972 Oct 10 1803	Titan IIID	-	23D-3	HEXAGON SV4	HEXAGON SV-4	-	-	VS	SLC4E	-	-	1489	-	-
1972-S339	2441601.98	1972 Oct 11 1130	Titan II	-	B-78	Mk 6 SSTTP T4	SAFSCOM M2-14/ChaserT	-	-	V	395-C	-	-	1300?	-	-
1972-103	2441673.24	1972 Dec 21 1745	Titan 24B	-	24B-6 (3B-40)	KH-8A	GAMBIT-3 Mission 4337	-	-	VS	SLC4W	-	-	419	-	-
1973-014	2441751.38	1973 Mar 9 2100	Titan IIID	-	23D-6	HEXAGON SV5	HEXAGON SV-5	-	-	VS	SLC4E	-	-	285	-	-
1973-028	2441819.19	1973 May 16 1640	Titan 24B	-	24B-7 (3B-41)	KH-8A	GAMBIT-3 Mission 4338	-	-	VS	SLC4W	-	-	404	-	-
1973-040	2441845.80	1973 Jun 12 0714:05	Titan IIIC	-	23C-6 (3C-24)	DSP 4	DSP 2	-	-	CC	LC40	-	-	37111	-	-
1973-F04	2441860.21	1973 Jun 26 1700	Titan 24B	-	24B-9 (3B-43)	KH-8A	GAMBIT-3 Mission 4339	-	-	VS	SLC4W	-	-	130?	-	-
1973-046	2441877.35	1973 Jul 13 2022	Titan IIID	-	23D-7	HEXAGON SV6	HEXAGON SV-6	-	-	VS	SLC4E	-	-	281	-	-
1973-056	2441916.17	1973 Aug 21 1607	Titan 33B	-	33B-3 (3B-38)	OPS 7724	Jumpseat 3	-	-	VS	SLC4W	-	-	40003	-	-
1973-068	2441953.22	1973 Sep 27 1715	Titan 24B	-	24B-8 (3B-42)	KH-8A	GAMBIT-3 Mission 4340	-	-	VS	SLC4W	-	-	419	-	-
1973-S342	2441961.50	1973 Oct 6	Titan II	-	B-69	Mk 6 SSTTP T5	SAFSCOM M2-27	-	-	V	395-C	-	-	1300?	-	-
1973-088	2441997.34	1973 Nov 10 2012?	Titan IIID	-	23D-8	HEXAGON SV7	HEXAGON SV-7	-	-	VS	SLC4E	-	-	1481	-	-
1973-100	2442030.50	1973 Dec 13 2357:01	Titan IIIC	-	23C-8 (3C-26)	DSCS II 3/4	DSCS II B-3	-	-	CC	LC40	-	-	39873	-	-
1974-F01	2442090.08	1974 Feb 11 1348:02	Titan IIIE	-	23E-1/TC-1	Centaur Proof Test	VDS	-	-	CC	LC41	-	-	180	-	-
1974-007	2442092.25	1974 Feb 13 1800?	Titan 24B	-	24B-10 (3B-44)	KH-8A	GAMBIT-3 Mission 4341	-	-	VS	SLC4W	-	-	415	-	-
1974-S123	2442107.90	1974 Mar 1 0940	Titan II	-	B-85	Mk 6 SSTTP T6	SAFSCOM M2-31	-	-	V	395-C	-	-	1300?	-	-
1974-020	2442148.35	1974 Apr 10 2020:01	Titan IIID	-	23D-9	HEXAGON SV8	HEXAGON SV-8	-	-	VS	SLC4E	-	-	826	-	-
1974-039	2442198.04	1974 May 30 1300:01	Titan IIIC	-	23C-9 (3C-27)	ATS 6	ATS F	-	-	CC	LC40	-	-	35900	-	-
1974-042	2442205.19	1974 Jun 6 1630	Titan 24B	-	24B-11 (3B-45)	KH-8A	GAMBIT-3 Mission 4342	-	-	VS	SLC4W	-	-	428	-	-
1974-065	2442274.16	1974 Aug 14 1545	Titan 24B	-	24B-12 (3B-46)	KH-8A	GAMBIT-3 Mission 4343	-	-	VS	SLC4W	-	-	422	-	-
1974-085	2442350.31	1974 Oct 29 1930:00	Titan IIID	-	23D-4	HEXAGON SV9	HEXAGON SV-9	-	-	VS	SLC4E	-	-	3792	-	-
1974-097	2442391.80	1974 Dec 10 0711:02	Titan IIIE	-	23E-2/TC-2	Helios 1	Helios 1	-	-	CC	LC41	-	-	150000	-	-
1975-S34	2442422.60	1975 Jan 10 0227:56	Titan II	-	B-27	Mk 6 RV	SOFT	-	-	V	395-C	-	-	1300?	-	-
1975-017	2442481.70	1975 Mar 10 0441	Titan 34B	-	34B-1 (3B-50)	OPS 2439	Jumpseat 4	-	-	VS	SLC4W	-	-	39577	-	-
1975-032	2442521.20	1975 Apr 18 1645?	Titan 24B	-	24B-14 (3B-48)	KH-8A	GAMBIT-3 Mission 4344	-	-	VS	SLC4W	-	-	453	-	-
1975-040	2442553.09	1975 May 20 1403:48	Titan IIIC	-	23C-7 (3C-25)	DSCS II 5/6	DSCS II B-5	-	-	CC	LC40	-	-	324	-	-
1975-051	2442572.27	1975 Jun 8 1830	Titan IIID	-	23D-10	HEXAGON SV10	HEXAGON SV-10	-	-	VS	SLC4E	-	-	1432	-	-
1975-S238	2442632.58	1975 Aug 8 0150	Titan II	-	B-52	Mk 6 RV	DG-2	-	-	V	395-C	-	-	1300?	-	-
1975-075	2442645.39	1975 Aug 20 2122:00	Titan IIIE	-	23E-4/TC-4	Viking 1	Viking Orbiter 1	-	-	CC	LC41	-	-	150000	-	-
1975-083	2442665.28	1975 Sep 9 1839:00	Titan IIIE	-	23E-3/TC-3	Viking 2	Viking Orbiter 2	-	-	CC	LC41	-	-	150000	-	-
1975-098	2442695.30	1975 Oct 9 1915	Titan 24B	-	24B-13 (3B-47)	KH-8A	GAMBIT-3 Mission 4345	-	-	VS	SLC4W	-	-	366	-	-
1975-114	2442751.35	1975 Dec 4 2030?	Titan IIID	-	23D-13	HEXAGON SV11	HEXAGON SV-11	-	-	VS	SLC4E	-	-	1558	-	-
1975-S344	2442751.69	1975 Dec 5 0430	Titan II	-	B-41	Mk 6 RV	DG-4	-	-	V	395-C	-	-	1300?	-	-
1975-118	2442760.72	1975 Dec 14 0515:00	Titan IIIC	-	23C-11 (3C-29)	DSP 5	DSP 8	-	-	CC	LC40	-	-	36661	-	-
1976-003	2442792.73	1976 Jan 15 0534:00	Titan IIIE	-	23E-5/TC-5	Helios 2	Helios 2	-	-	CC	LC41	-	-	150000	-	-
1976-023	2442852.56	1976 Mar 15 0125:40	Titan IIIC	-	23C-12 (3C-30)	P74-1	LES 8	-	-	CC	LC40	-	-	128422	-	-
1976-027	2442860.26	1976 Mar 22 1814?	Titan 24B	-	24B-18 (3B-52)	KH-8A	GAMBIT-3 Mission 4346	-	-	VS	SLC4W	-	-	367	-	-
1976-050	2442932.37	1976 Jun 2 2056	Titan 34B	-	34B-5 (3B-55)	OPS 7837	SDS 1	-	-	VS	SLC4W	-	-	39192	-	-
1976-059	2442955.63	1976 Jun 26 0300:01	Titan IIIC	-	23C-10 (3C-28)	DSP 6	DSP 7	-	-	CC	LC40	-	-	36093	-	-
1976-S215	2442957.61	1976 Jun 28 0240:53	Titan II	-	B-17	Mk 6 RV	ITF-1	-	-	V	395-C	-	-	1300?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1976-065	2442968.27	1976 Jul 8 1830	Titan IIID	-	23D-14	HEXAGON SV12	HEXAGON SV-12	-	-	VS	SLC4E	-	-	7781	-	-
1976-080	2442997.43	1976 Aug 6 2221	Titan 34B	-	34B-6 (3B-56)	OPS 7940	SDS 2	-	-	VS	SLC4W	-	-	39989	-	-
1976-094	2443037.28	1976 Sep 15 1850	Titan 24B	-	24B-17 (3B-51)	KH-8A	GAMBIT-3 Mission 4347	-	-	VS	SLC4W	-	-	352	-	-
1976-125	2443132.26	1976 Dec 19 1819	Titan IIID	-	23D-15	KH-11	KH11-1 KENNAN	-	-	VS	SLC4E	-	-	555	-	-
1977-007	2443180.75	1977 Feb 6 0600:01	Titan IIIC	-	23C-5 (3C-23)	DSP 9	DSP 9	-	-	CC	LC40	-	-	36952	-	-
1977-019	2443216.28	1977 Mar 13 1841:10	Titan 24B	-	24B-19 (3B-54)	KH-8A	GAMBIT-3 Mission 4348	-	-	VS	SLC4W	-	-	362	-	-
1977-034	2443276.10	1977 May 12 1426:58	Titan IIIC	-	23C-14 (3C-32)	DSCS II 7/8	DSCS II C-7	-	-	CC	LC40	-	-	38626	-	-
1977-056	2443322.27	1977 Jun 27 1830	Titan IIID	-	23D-17	HEXAGON SV13	HEXAGON SV-13	-	-	VS	SLC4E	-	-	271	-	-
1977-076	2443376.10	1977 Aug 20 1429:44	Titan IIIE	-	23E-7/TC-7	Voyager 2	Voyager 2	-	-	CC	LC41	-	-	150000	-	-
1977-084	2443392.04	1977 Sep 5 1256:01	Titan IIIE	-	23E-6/TC-6	Voyager 1	Voyager 1	-	-	CC	LC41	-	-	150000	-	-
1977-094	2443410.27	1977 Sep 23 1834	Titan 24B	-	24B-23 (3B-58)	KH-8A	GAMBIT-3 Mission 4349	-	-	VS	SLC4W	-	-	364	-	-
1978-021	2443564.71	1978 Feb 25 0500?	Titan 34B	-	34B-2 (3B-49)	OPS 6031	Jumpseat 5	-	-	VS	SLC4W	-	-	34272	-	-
1978-029	2443584.28	1978 Mar 16 1840?	Titan IIID	-	23D-20	HEXAGON SV14	HEXAGON SV-14	-	-	VS	SLC4E	-	-	645	-	-
1978-F01	2443593.26	1978 Mar 25 1809:00	Titan IIIC	-	23C-17 (3C-35)	DSCS II 9/10	DSCS II C-9	-	-	CC	LC40	-	-	150	-	-
1978-058	2443670.30	1978 Jun 10 1908	Titan IIIC	-	23C-15 (3C-33)	OPS 9454	CHALET 1	-	-	CC	LC40	-	-	42405	-	-
1978-060	2443674.27	1978 Jun 14 1823?	Titan IIID	-	23D-18	KH-11	KH11-2 KENNAN	-	-	VS	SLC4E	-	-	551	-	-
1978-075	2443725.71	1978 Aug 5 0500?	Titan 34B	-	34B-7 (3B-57)	OPS 7310	SDS 3	-	-	VS	SLC4W	-	-	39377	-	-
1978-113	2443856.53	1978 Dec 14 0040:02	Titan IIIC	-	23C-18 (3C-36)	DSCS II 11/12	DSCS II C-11	-	-	CC	LC40	-	-	44588	-	-
1979-025	2443949.27	1979 Mar 16 1830	Titan IIID	-	23D-21	HEXAGON SV15	HEXAGON SV-15	-	-	VS	SLC4E	-	-	624	-	-
1979-044	2444022.27	1979 May 28 1830	Titan 24B	-	24B-25 (3B-61)	KH-8A	GAMBIT-3 Mission 4350	-	-	VS	SLC4W	-	-	323	-	-
1979-053	2444035.07	1979 Jun 10 1339:00	Titan IIIC	-	23C-13 (3C-31)	DSP 11	DSP 11	-	-	CC	LC40	-	-	37355	-	-
1979-086	2444147.97	1979 Oct 1 1122:00	Titan IIIC	-	23C-16 (3C-34)	OPS 1948	VORTEX 2	-	-	CC	LC40	-	-	41769	-	-
1979-098	2444198.59	1979 Nov 21 0209:36	Titan IIIC	-	23C-19 (3C-37)	DSCS II 13/14	DSCS II D-13	-	-	CC	LC40	-	-	46316	-	-
1980-010	2444277.38	1980 Feb 7 2110	Titan IIID	-	23D-19	KH-11	KH11-3 KENNAN	-	-	VS	SLC4E	-	-	508	-	-
1980-052	2444409.27	1980 Jun 18 1830	Titan IIID	-	23D-16	HEXAGON SV16	HEXAGON SV-16	-	-	VS	SLC4E	-	-	1340	-	-
1980-E02	2444501.83	1980 Sep 19 0800	Titan II	-	-	-	-	-	-	LROCK	374-7	-	-	0	-	-
1980-100	2444587.17	1980 Dec 13 1604	Titan 34B	-	34B-3 (3B-53)	OPS 5805	SDS 4	-	-	VS	SLC4W	-	-	39130	-	-
1981-019	2444664.30	1981 Feb 28 1910?	Titan 24B	-	24B-24 (3B-59)	KH-8A	GAMBIT-3 Mission 4351	-	-	VS	SLC4W	-	-	336	-	-
1981-025	2444680.31	1981 Mar 16 1924:00	Titan IIIC	-	23C-22 (3C-40)	DSP 10	DSP 10	-	-	CC	LC40	-	-	36295	-	-
1981-038	2444719.40	1981 Apr 24 2132	Titan 34B	-	34B-8 (3B-60)	OPS 7225	Jumpseat 6	-	-	VS	SLC4W	-	-	39300	-	-
1981-085	2444851.27	1981 Sep 3 1829?	Titan IIID	-	23D-22	KH-11	KH11-4 KENNAN	-	-	VS	SLC4E	-	-	517	-	-
1981-107	2444908.89	1981 Oct 31 0922:00	Titan IIIC	-	23C-21 (3C-39)	OPS 4029	VORTEX 3	-	-	CC	LC40	-	-	40384	-	-
1982-006	2444991.31	1982 Jan 21 1930:01	Titan 24B	-	24B-26 (3B-62)	KH-8A	GAMBIT-3 Mission 4352	-	-	VS	SLC4W	-	-	665	-	-
1982-019	2445035.31	1982 Mar 6 1925:00	Titan IIIC	-	23C-20 (3C-38)	DSP 13	DSP 13	-	-	CC	LC40	-	-	36618	-	-
1982-041	2445101.27	1982 May 11 1835	Titan IIID	-	23D-24	HEXAGON SV17	HEXAGON SV-17	-	-	VS	SLC4E	-	-	722	-	-
1982-106	2445272.67	1982 Oct 30 0405:01	Titan 34D/IUS	-	34D-1 (04D-5?)	DSCS II/DSCS III	DSCS II F-16	-	-	CC	LC40	-	-	45133	-	-
1982-111	2445291.39	1982 Nov 17 2118?	Titan IIID	-	23D-23	KH-11	KH11-5 KENNAN	-	-	VS	SLC4E	-	-	536	-	-
1983-032	2445440.28	1983 Apr 15 1845	Titan 24B	-	24B-27 (3B-63)	KH-8A	GAMBIT-3 Mission 4353	-	-	VS	SLC4W	-	-	315	-	-
1983-060	2445506.28	1983 Jun 20 1845	Titan 34D	-	34D-5 (04D-3)	HEXAGON SV18	HEXAGON SV-18	-	-	VS	SLC4E	-	-	1297	-	-
1983-078	2445547.15	1983 Jul 31 1541	Titan 34B	-	34B-9 (3B-65)	OPS 7304	Jumpseat 7	-	-	VS	SLC4W	-	-	38347	-	-
1984-009	2445730.63	1984 Jan 31 0308:01	Titan 34D/Transtage	-	34D-10 (05D-1)	OPS 0441	VORTEX 4	-	-	CC	LC40	-	-	40456	-	-
1984-037	2445805.20	1984 Apr 14 1652:02	Titan 34D/Transtage	-	34D-11 (05D-2)	DSP 12	DSP 12	-	-	CC	LC40	-	-	36499	-	-
1984-039	2445808.28	1984 Apr 17 1845	Titan 24B	-	24B-28 (3B-67)	KH-8A	GAMBIT-3 Mission 4354	-	-	VS	SLC4W	-	-	314	-	-
1984-065	2445877.28	1984 Jun 25 1847	Titan 34D	-	34D-4 (04D-1)	USA 2/3 [HEX SV19]	HEXAGON SV-19	-	-	VS	SLC4E	-	-	710	-	-
1984-091	2445941.25	1984 Aug 28 1803	Titan 34B	-	34B-4 (3B-64)	USA 4 [JS7]	SDS 5	-	-	VS	SLC4W	-	-	39244	-	-
1984-122	2446039.25	1984 Dec 4 1803	Titan 34D	-	34D-6 (04D-4)	USA 6 [KH11-6]	KH11-6 KENNAN	-	-	VS	SLC4E	-	-	1015	-	-
1984-129	2446056.50	1984 Dec 22 0002:03	Titan 34D/Transtage	-	34D-13 (05D-3)	USA 7 [DSP 6]	DSP 6R	-	-	CC	LC40	-	-	36215	-	-
1985-014	2446104.76	1985 Feb 8 0610	Titan 34B	-	34B-10 (3B-69)	USA 9 [SDS6]	SDS 6	-	-	VS	SLC4W	-	-	39700	-	-
1985-F02	2446306.39	1985 Aug 28 2120	Titan 34D	-	34D-7 (04D-6)	- [IC1]	Improved CRYSTAL 2101?	-	-	VS	SLC4E	-	-	100?	-	-
1986-F03	2446539.28	1986 Apr 18 1845:01	Titan 34D	-	34D-9 (04D-2)	HEXAGON SV20	HEXAGON SV-20	-	-	VS	SLC4E	-	-	0	-	-
1987-015	2446838.78	1987 Feb 12 0640	Titan 34B	-	34B-51 (3B-66)	USA 21 [SDS7]	QUASAR 7?	-	-	VS	SLC4W	-	-	39463	-	-
1987-090	2447095.40	1987 Oct 26 2132	Titan 34D	-	34D-15 (04D-8)	USA 27 [IC2]	Improved CRYSTAL 2102	-	-	VS	SLC4E	-	-	1018	-	-
1987-097	2447128.64	1987 Nov 29 0327:20	Titan 34D/Transtage	-	34D-8 (05D-4)	USA 28 [DSP5]	DSP 5R	-	-	CC	LC40	-	-	36448	-	-
1988-077	2447407.00	1988 Sep 2 1205:02	Titan 34D/Transtage	-	34D-3 (05D-5)	USA 31 [CY12]	VORTEX 5	-	-	CC	LC40	-	-	39562	-	-
1988-078	2447409.89	1988 Sep 5 0925	Titan II SLV	-	23G-1	USA 32 [T2-1]	P-11 No. 5103	-	-	VS	SLC4W	-	-	809	-	-
1988-099	2447472.25	1988 Nov 6 1803	Titan 34D	-	34D-14 (04D-7)	USA 33 [IC3]	Improved CRYSTAL 2103	-	-	VS	SLC4E	-	-	1040	-	-
1989-035	2447657.32	1989 May 10 1947:01	Titan 34D/Transtage	-	34D-16 (05D-6)	USA 37 [CY13]	VORTEX 6	-	-	CC	LC40	-	-	40452	-	-
1989-046	2447692.05	1989 Jun 14 1318:01	Titan 402A/IUS	-	K-1 (45D-1)	USA 39 [DSP14]	DSP 14	-	-	CC	LC41	-	-	36231	-	-
1989-069	2447773.75	1989 Sep 4 0554:01	Titan 34D/Transtage	-	34D-2 (05D-7)	USA 43/44 (DSCS)	DSCS II E-15	-	-	CC	LC40	-	-	36377	-	-
1989-072	2447775.58	1989 Sep 6 0148	Titan II SLV	-	23G-2	USA 45 [T2-2]	P-11 No. 5104	-	-	VS	SLC4W	-	-	300	-	-
1990-001	2447892.50	1990 Jan 1 0007	Commercial Titan 3	-	CT-1	Skynet/JCSAT	Skynet 4A	-	-	CC	LC40	-	-	36915	-	-
1990-021	2447964.99	1990 Mar 14 1152:31	Commercial Titan 3	-	CT-2	Intelsat 603	INTELSAT VI F-3	-	-	CC	LC40	-	-	75122	-	-
1990-050	2448050.72	1990 Jun 8 0521:41	Titan 405A	-	K-4 (45H-4)	USA 59-62 [NOSS10]	SLDCOM 1/INTRUDER 1	-	-	CC	LC41	-	-	11555	-	-
1990-056	2448065.97	1990 Jun 23 1119	Commercial Titan 3	-	CT-3	Intelsat 604	INTELSAT VI F-4	-	-	CC	LC40	-	-	38372	-	-
1990-095	2448208.53	1990 Nov 13 0037:02	Titan 402A/IUS	-	K-6 (45D-2)	USA 65 [DSP15]	DSP 15	-	-	CC	LC41	-	-	36371	-	-
1991-017	2448324.00	1991 Mar 8 1203	Titan 403A	-	K-5 (45F-1)	USA 69 [LAC2]	LACROSSE 2	-	-	VS	SLC4E	-	-	681	-	-
1991-076	2448568.80	1991 Nov 8 0707	Titan 403A	-	K-8 (45F-2)	USA 72-77 [NOSS11]	SLDCOM 2/INTRUDER 2	-	-	VS	SLC4E	-	-	13450	-	-
1992-023	2448737.87	1992 Apr 25 0853	Titan II SLV	-	23G-3	USA 81 [T2-3]	P-11 No. 5105	-	-	VS	SLC4W	-	-	805	-	-
1992-063	2448891.21	1992 Sep 25 1705:01	Commercial Titan 3	-	CT-4	Mars Observer	Mars Observer	-	-	CC	LC40	-	-	150000	-	-
1992-083	2448955.40	1992 Nov 28 2134	Titan 404A	-	K-3 (45J-1)	USA 86 [IC4]	Improved CRYSTAL 2104	-	-	VS	SLC4E	-	-	1046	-	-
1993-F02	2449202.33	1993 Aug 2 1959	Titan 403A	-	K-11 (45F-9)	- [NOSS12]	SLDCOM 3/INTRUDER 3	-	-	VS	SLC4E	-	-	33	-	-
1993-F04	2449266.25	1993 Oct 5 1756	Titan II SLV	-	23G-5	Landsat 6	Landsat 6	-	-	VS	SLC4W	-	-	724	-	-
1994-004	2449378.19	1994 Jan 25 1634	Titan II SLV	-	23G-11	DSPSE	DSPSE	-	-	VS	SLC4W	-	-	150000	-	-
1994-009	2449391.41	1994 Feb 7 2147:01	Titan 401A/Centaur	-	K-10/TC-12 (45E-3)	USA 99 (Milstar 1)	Milstar DFS-1	-	-	CC	LC40	-	-	36202	-	-
1994-026	2449476.16	1994 May 3 1555:01	Titan 401A/Centaur	-	K-7/TC-10 (45E-1)	USA 103 [JS8]	TRUMPET 1	-	-	CC	LC41	-	-	39735	-	-
1994-054	2449591.87	1994 Aug 27 0858:01	Titan 401A/Centaur	-	K-9/TC-11 (45E-2)	USA 105 [CY14]	MERCURY 1	-	-	CC	LC41	-	-	36525	-	-
1994-084	2449709.43	1994 Dec 22 2219:02	Titan 402A/IUS	-	K-14 (45D-3)	USA 107 [DSP17]	DSP 17	-	-	CC	LC40	-	-	36226	-	-
1995-022	2449852.07	1995 May 14 1345:01	Titan 401A/Centaur	-	K-23/TC-17 (45E-8)	USA 110 [RH7]	ORION 3	-	-	CC	LC40	-	-	36310	-	-
1995-034	2449909.03	1995 Jul 10 1238:03	Titan 401A/Centaur	-	K-19/TC-8 (45E-5)	USA 112 [JS9]	TRUMPET 2	-	-	CC	LC41	-	-	39463	-	-
1995-060	2450027.72	1995 Nov 6 0515:01	Titan 401A/Centaur	-	K-21/TC-13 (45E-7)	USA 115 (Milstar 2)	Milstar DFS-2	-	-	CC	LC40	-	-	36169	-	-
1995-066	2450057.39	1995 Dec 5 2118:00	Titan 404A	-	K-15 (45J-3)	USA 116 [IC5]	Improved CRYSTAL 2105	-	-	VS	SLC4E	-	-	1033	-	-
1996-026	2450198.48	1996 Apr 24 2337:02	Titan 401A/Centaur	-	K-16/TC-15 (45E-4)	USA 118 [CY15]	MERCURY 2	-	-	CC	LC41	-	-	38482	-	-
1996-029	2450216.40	1996 May 12 2132:00	Titan 403A	-	K-22 (45F-11)	USA 119-124 [NOSS13]	SLDCOM 4/INTRUDER 4	-	-	VS	SLC4E	-	-	11743	-	-
1996-038	2450267.52	1996 Jul 3 0030:02	Titan 405A	-	K-2 (45H-1)	USA 125 [SDS11]	QUASAR 11?	CYGNUS	-	CC	LC40	-	-	39980	-	-
1996-072	2450438.25	1996 Dec 20 1804:00	Titan 404A	-	K-13 (45J-5)	USA 129 [IC6]	Improved CRYSTAL 2106	NROL-02	-	VS	SLC4E	-	-	1057	-	-
1997-008	2450503.35	1997 Feb 23 2020:01	Titan 402B/IUS	-	4B-24 (K-24, 45D-4)	USA 130 [DSP18]	DSP 20	-	-	CC	LC40	-	-	38440	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1997-012	2450543.20	1997 Apr 4 1647	Titan II SLV	-	23G-6	USA 131 (DMSP)	DMSP Block 5D-2 S-14	-	-	VS	SLC4W	-	-	869	-	-
1997-061	2450736.86	1997 Oct 15 0843:01	Titan 401B/Centaur	-	4B-33/TC-21 (45E-13)	Cassini	Cassini	-	-	CC	LC40	-	-	150000	-	-
1997-064	2450745.61	1997 Oct 24 0232:00	Titan 403A	-	4A-18 (K-18, 45F-3)	USA 133 [LAC3]	LACROSSE 3	NROL-03	-	VS	SLC4E	-	-	685	-	-
1997-068	2450760.59	1997 Nov 8 0205:01	Titan 401A/Centaur	-	4A-17/TC-16 (45E-?)	USA 136 [JS10]	TRUMPET 3	NROL-04 OSCAR	-	CC	LC41	-	-	39661	-	-
1998-029	2450942.57	1998 May 9 0138:01	Titan 401B/Centaur	-	4B-25/TC-18 (K-25)	USA 139 [RH8]	ORION 4	NROL-06 JACK	-	CC	LC40	-	-	36192	-	-
1998-030	2450947.16	1998 May 13 1552:04	Titan II SLV	-	23G-12	NOAA 15	NOAA K	-	-	VS	SLC4W	-	-	825	-	-
1998-F02	2451037.98	1998 Aug 12 1130:01	Titan 401A/Centaur	-	4A-20/TC-9 (K-17)	- [CY16]	MERCURY 3	NROL-07 ELWOOD	-	CC	LC41	-	-	5	-	-
1999-017	2451278.21	1999 Apr 9 1701:00	Titan 402B/IUS	-	4B-27 (K-32)	USA 142 [DSP19]	DSP 19?	-	-	CC	LC41	-	-	35682	-	-
1999-023	2451299.19	1999 Apr 30 1630:00	Titan 401B/Centaur	-	4B-32/TC-14 (K-26)	USA 143 (Milstar 3)	Milstar DFS-3	-	-	CC	LC40	-	-	5165	-	-
1999-028	2451320.90	1999 May 22 0936	Titan 404B	?	4B-12	USA 144 [MIST2]	MISTY 2?	NROL-09	-	VS	SLC4E	-	-	3141	-	-
1999-034	2451349.59	1999 Jun 20 0215:00	Titan II SLV	-	23G-7	Quikscat	QuikScat	-	-	VS	SLC4W	-	-	830	-	-
1999-067	2451525.23	1999 Dec 12 1738:01	Titan II SLV	-	23G-8	USA 147 (DMSP F15)	DMSP Block 5D-3 S-15	-	-	VS	SLC4W	-	-	852	-	-
2000-024	2451673.17	2000 May 8 1601:00	Titan 402B/IUS	-	4B-29	USA 149 [DSP20]	DSP 18?	-	-	CC	LC40	-	-	37012	-	-
2000-047	2451774.49	2000 Aug 17 2345:01	Titan 403B	?	4B-28	USA 152 [LAC4]	ONYX 4	NROL-11	-	VS	SLC4E	-	-	695	-	-
2000-055	2451808.93	2000 Sep 21 1022	Titan II SLV	-	23G-13	NOAA 16	NOAA L	-	-	VS	SLC4W	-	-	864	-	-
2001-009	2451968.39	2001 Feb 27 2120:00	Titan 401B/Centaur	-	4B-41/TC-22 (K-30)	USA 157 (Milstar 4)	Milstar DFS-4	-	-	CC	SLC40	-	-	35969	-	-
2001-033	2452127.81	2001 Aug 6 0728:00	Titan 402B/IUS	-	4B-31	USA 159 [DSP21]	DSP	-	-	CC	SLC40	-	-	36053	-	-
2001-044	2452188.39	2001 Oct 5 2121:01	Titan 404B	?	4B-34	USA 161 [IC7]	Improved CRYSTAL 2107?	NROL-14	-	VS	SLC4E	-	-	985	-	-
2002-001	2452290.52	2002 Jan 16 0030:01	Titan 401B/Centaur	-	4B-38/TC-19	USA 164 (Milstar 5)	Milstar DFS-5	-	-	CC	SLC40	-	-	36071	-	-
2002-032	2452450.27	2002 Jun 24 1823:04	Titan II SLV	-	23G-14	NOAA 17	NOAA M	-	-	VS	SLC4W	-	-	823	-	-
2003-001	2452646.10	2003 Jan 6 1419	Titan II SLV	-	23G-4	Coriolis	P98-2 Coriolis	-	-	VS	SLC4W	-	-	860	-	-
2003-012	2452738.07	2003 Apr 8 1343:00	Titan 401B/Centaur	-	4B-35/TC-23	USA 169 (Milstar 6)	Milstar DFS-6	-	-	CC	SLC40	-	-	36203	-	-
2003-041	2452891.69	2003 Sep 9 0429:00	Titan 401B/Centaur	-	4B-36/TC-20	USA 171 [RH9]	ORION 5	NROL-19 HOMER	-	CC	SLC40	-	-	36042	-	-
2003-048	2452931.18	2003 Oct 18 1617	Titan II SLV	-	23G-9	USA 172 (DMSP F16)	DMSP Block 5D-3 S-20	-	-	VS	SLC4W	-	-	858	-	-
2004-004	2453050.28	2004 Feb 14 1850:00	Titan 402B/IUS	-	4B-39	USA 176 [DSP22]	DSP F22	-	-	CC	SLC40	-	-	36118	-	-
2005-016	2453490.53	2005 Apr 30 0050:00	Titan 405B	?	4B-30	USA 182 [LAC5]	ONYX 5	NROL-16 PROMETHEUS	-	CC	SLC40	-	-	726	-	-
2005-042	2453663.25	2005 Oct 19 1805	Titan 404B	?	4B-26	USA 186 [IC8]	Improved CRYSTAL 2108?	NROL-20	-	VS	SLC4E	-	-	1070	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-S15	2436606.39	1959 Feb 6 2122	Titan I	-	A-3	0.000	AFBMD	MS	-	-	Test	CBMO/UPI	MM/Titan	-
1959-S17	2436625.32	1959 Feb 25 1945	Titan I	-	A-5	0.000	AFBMD	MS	-	-	Test	CBMO/AP	MM/Titan	-
1959-S41	2436662.22	1959 Apr 3 1711	Titan I	-	A-4	0.000	AFBMD	MF	U	-	Test	CBMO/UPI	MM/Titan	Called Suc.
1959-S60	2436693.27	1959 May 4 1830	Titan I	-	A-6	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1959-A137	2436795.25	1959 Aug 14 1756	Titan I	-	B-5	0.000	AFBMD	MF	U	-	Test	Wire	MM/Titan	-
1959-A204	2436915.22	1959 Dec 12 1711	Titan I	-	C-3	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	MM/Titan	-
1960-S29	2436967.26	1960 Feb 2 1808	Titan I	-	B-7A	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1960-A33	2436970.41	1960 Feb 5 2146	Titan I	-	C-4	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	MM/Titan	-
1960-S38	2436989.17	1960 Feb 24 1603	Titan I	-	G-4	0.000	AFBMD	MS	-	-	Test	Wire/CBMO	MM/Titan	-
1960-A63	2437002.25	1960 Mar 8 1800?	Titan I	-	C-1	0.000	AFBMD	MF	U	-	Test	CBMO	MM/Titan	St 2 fail
1960-S57	2437016.41	1960 Mar 22 2148	Titan I	-	G-5	0.000	AFBMD	MS	-	-	Test	Ulrich/Wire	MM/Titan	-
1960-S72	2437033.26	1960 Apr 8 1811	Titan I	-	C-5	0.000	AFBMD	MF	U	-	Test	Ulrich/Wire	MM/Titan	St2 pump fail
1960-S78	2437046.37	1960 Apr 21 2055	Titan I	-	G-6	0.000	AFBMD	MS	-	-	Test	CBMO/Wire(EST?)	MM/Titan	-
1960-S86	2437053.35	1960 Apr 28 2018	Titan I	-	C-6	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1960-S97	2437068.39	1960 May 13 2125	Titan I	-	G-7	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1960-S107	2437082.22	1960 May 27 1720	Titan I	-	G-9	0.000	AFBMD	MS	-	-	Test	CBMO/Wire(EST?)	MM/Titan	-
1960-S144	2437110.50	1960 Jun 25 0004	Titan I	-	G-10	0.000	AFBMD	MS	-	-	Test	Ulrich/Wire	CBMO	-
1960-A160	2437117.23	1960 Jul 1 1729	Titan I	-	J-2	0.000	AFBMD	MF	U	-	Test	CBMO/Wire(EST?)	SFLT57,346	-
1960-S200	2437144.40	1960 Jul 28 2138	Titan I	-	J-4	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	MM/Titan	-
1960-S230	2437157.45	1960 Aug 10 2246	Titan I	-	J-7	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1960-S258	2437177.28	1960 Aug 30 1848	Titan I	-	J-5	0.000	AFBMD	MS	-	-	Test	Ulrich/Wire	MM/Titan	EST
1960-S292	2437206.06	1960 Sep 28 1332	Titan I	-	J-8	0.000	AFBMD	MS	-	-	Test	FI601104-717	MM/Titan	-
1960-S296	2437207.10	1960 Sep 29 1420	Titan I	-	G-8	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	No RV sep
1960-S311	2437215.20	1960 Oct 7 1642	Titan I	-	J-3	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	EST
1960-S336	2437232.47	1960 Oct 24 2316	Titan I	-	J-6	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1960-A287	2437272.73	1960 Dec 4 0535	Titan I	-	V-2	0.000	AFBMD	ME	-	-	Test	CBMO/Wire	MM/Titan	No launch
1960-A306	2437289.43	1960 Dec 20 2221	Titan I	-	J-9	0.000	AFBMD	MF	U	-	Test	Ulrich/Wire	MM/Titan	-
1961-A27	2437320.37	1961 Jan 20 2053	Titan I	-	AJ-10	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	MM/Titan	-
1961-S41	2437340.75	1961 Feb 10 0555	Titan I	-	AJ-11	0.000	AFBMD	MS	-	-	Test	CBMO/Wire	MM/Titan	-
1961-S55	2437351.54	1961 Feb 21 0100	Titan I	-	AJ-13	0.000	AFBMD	MS	-	-	Test	Ulrich/Wire	MM/Titan	-
1961-A70	2437361.57	1961 Mar 3 0145	Titan I	-	AJ-12	0.000	AFBMD	MF	U	-	Test	FDC/Ulrich	MT60-2544	-
1961-S96	2437387.65	1961 Mar 29 0333	Titan I	-	AJ-14	0.000	AFBMD	MS	-	-	Test	Ulrich/Wire	MM/Titan	-
1961-A98	2437390.36	1961 Mar 31 2044	Titan I	-	AJ-15	0.000	AFBMD	MF	U	-	Test	CBMO/Wire	MM/Titan	-
1961-S134	2437423.34	1961 May 3 2010:44	Titan I	-	VS-1	0.000	AFBMD	MS	-	-	Test	Wire	MM/Titan/CMBO	Deliberate destruct test
1961-S156	2437443.64	1961 May 24 0327	Titan I	-	AJ-16	0.000	AFBSL	MS	-	-	Test	FDC/Ulrich	MT60-2544	-
1961-A156	2437474.64	1961 Jun 24 0328	Titan I	-	M-1	0.000	AFBSL	MF	U	-	Test	Ulrich/Wire	MM/Titan	-
1961-S211	2437501.58	1961 Jul 21 0200	Titan I	-	AJ-18	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S220	2437506.30	1961 Jul 25 1905	Titan I	-	M-2	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	No RV sep
1961-S229	2437515.57	1961 Aug 4 0140	Titan I	-	AJ-19	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S268	2437549.56	1961 Sep 7 0130	Titan I	-	AJ-17	0.000	AFBSL	MS	-	-	Test	Ulrich/Wire	MM/Titan	-
1961-S270	2437550.56	1961 Sep 8 0130	Titan I	-	M-3	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S295	2437566.36	1961 Sep 23 2036	Titan I	-	SM-68-2	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	St1 MECO early
1961-S301	2437571.58	1961 Sep 29 0152	Titan I	-	AJ-20	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S325	2437579.56	1961 Oct 7 0130	Titan I	-	M-4	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S346	2437597.48	1961 Oct 24 2328	Titan I	-	AJ-21	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S386	2437625.52	1961 Nov 22 0030	Titan I	-	AJ-22	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1961-S393	2437633.57	1961 Nov 30 0140	Titan I	-	M-5	0.000	AFBSL	MS	-	-	Test	Wire	MM/Titan	-
1961-S421	2437647.50	1961 Dec 14 0005	Titan I	-	AJ-23	0.000	AFBSL	MS	-	-	Test	FDC/Ulrich	MM/Titan	-
1961-S427	2437649.56	1961 Dec 16 0120	Titan I	-	M-6	0.000	AFBSL	MF	U	-	Test	Ulrich/Wire	MM/Titan	-
1962-S20	2437685.54	1962 Jan 21 0057	Titan I	-	SM-68-4	0.000	SAC	MF	U	-	Test	MM/Titan/Wire	MM/Titan	-
1962-S29	2437694.48	1962 Jan 29 2330:56	Titan I	-	M-7	0.000	AFBSL	MS	-	-	Test	MM/Titan/UPI	MM/Titan	-
1962-M01	2437718.50	1962 Feb 23	Titan I	-	SM-68-18	0.000	AFBSL	MF	U	-	OT	MM/Titan	MR620305-10	-
1962-S70	2437740.26	1962 Mar 16 1808:58	Titan II	-	N-2	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1962-S125	2437789.40	1962 May 4 2143	Titan I	-	SM-34	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1962-S174	2437823.27	1962 Jun 7 1821:37	Titan II	-	N-1	0.000	AFBSL	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1962-S238	2437857.29	1962 Jul 11 1851:54	Titan II	-	N-6	0.000	AFBSL	MS	-	-	Test	PH	MM/Titan	-
1962-S263	2437871.18	1962 Jul 25 1617:20	Titan II	-	N-4	0.000	AFBSL	MS	-	-	Test	PH	MM/Titan	-
1962-S332	2437920.16	1962 Sep 12 1550:00	Titan II	-	N-5	0.000	AFBSD	MS	-	-	Test	PH	MM/Titan	-
1962-S381	2437943.50	1962 Oct 6	Titan I	-	SM-35	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1962-S387	2437950.18	1962 Oct 12 1624:03	Titan II	-	N-9	0.000	AFBSD	MS	-	-	Test	PH	MM/Titan	-
1962-S435	2437964.21	1962 Oct 26 1705:34	Titan II	-	N-12	0.000	AFBSD	MS	-	-	Test	PH	MM/Titan	-
1962-S531	2438003.50	1962 Dec 5	Titan I	-	SM-11	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1962-S540	2438005.36	1962 Dec 6 2031:37	Titan II	-	N-11	0.000	AFBSD	MF	U	-	Test	PH	MM/Titan	-
1962-S575	2438018.34	1962 Dec 19 2008:28	Titan II	-	N-13	0.000	AFBSD	MS	-	-	Test	PH	MM/Titan	-
1963-S10	2438039.73	1963 Jan 10 0531:02	Titan II	-	N-15	0.000	AFBSD	MF	U	-	Test	nsf-koenn	MM/Titan	-
1963-S25	2438058.50	1963 Jan 29	Titan I	-	SM-8	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1963-S38	2438067.25	1963 Feb 6 1758:24	Titan II	-	N-16	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1963-A24	2438077.41	1963 Feb 16 2145	Titan II	-	N-7	0.000	AFBSD	MF	U	-	Test	MM/Titan/Wire	MM/Titan	-
1963-S108	2438110.14	1963 Mar 21 1522:48	Titan II	-	N-18	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1963-S126	2438118.86	1963 Mar 30 0845	Titan I	-	SM-3	0.000	SAC	MS	-	-	Target	MM/Titan/Wire	MM/Titan	-
1963-S133	2438124.70	1963 Apr 5 0452:37	Titan I	-	V-1	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1963-S150	2438132.50	1963 Apr 13	Titan I	-	SM-1	0.000	SAC	MS	-	-	Target	MM/Titan	MM/Titan	-
1963-S164	2438139.33	1963 Apr 19 2000:11	Titan II	-	N-21	0.000	AFBSD	MF	U	-	Test	nsf-koenn	MM/Titan	-
1963-S179	2438146.50	1963 Apr 27	Titan II	-	N-8	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1963-A68	2438150.93	1963 May 1 1015	Titan I	-	V-4	0.000	AFBSD	MF	U	-	Test	MM/Titan/Wire(DST?)	SP-4004	-
1963-S193	2438159.17	1963 May 9 1608:32	Titan II	-	N-14	0.000	AFBSD	MF	U	-	Test	nsf-koenn	MM/Titan	-
1963-S199	2438162.50	1963 May 13	Titan II	-	N-19	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1963-S233	2438174.23	1963 May 24 1733:05	Titan II	-	N-17	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1963-A82	2438179.21	1963 May 29 1656:24	Titan II	-	N-20	0.000	AFBSD	MF	U	-	Test	MM/Titan/Wire	MM/Titan	-
1963-S286	2438200.50	1963 Jun 20	Titan II	-	N-22	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1963-S340	2438226.50	1963 Jul 16	Titan I	-	SM-24	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1963-S389	2438256.50	1963 Aug 15	Titan I	-	SM-7	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1963-S400	2438263.39	1963 Aug 21 2123:55	Titan II	-	N-24	0.000	AFBSD	RS	-	AFCRL/Block	Test/Plume study	nsf-koenn	MM/Titan/AFCRL2	-
1963-S414	2438271.50	1963 Aug 30	Titan I	-	SM-56	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1963-S444	2438289.50	1963 Sep 17	Titan I	-	SM-83	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1963-S450	2438295.50	1963 Sep 23	Titan II	-	N-23	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S533	2438335.34	1963 Nov 1 2014:54	Titan II	-	N-25	0.000	AFBSD	RS	-	AFCRL/Ulwick	Test/Plume study	AFCRL2	MM/Titan	-
1963-S545	2438342.50	1963 Nov 9	Titan II	-	N-27	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1963-S554	2438348.07	1963 Nov 14 1342	Titan I	-	SM-68	0.000	SAC	MS	-	-	OT	Ulrich	MM/Titan	-
1963-S599	2438376.33	1963 Dec 12 2000:01	Titan II	-	N-29	0.000	AFBSD	RS	-	AFCRL/Block	Test/Plume study	AFCRL2	MM/Titan	-
1963-S603	2438380.52	1963 Dec 17 0030	Titan II	-	N-28	0.000	AFBSD	RS	-	AFCRL/Block	Test/Plume study	Ulrich/wire	MM/Titan	-
1964-S31	2438410.35	1964 Jan 15 2030:19	Titan II	-	N-31	0.000	AFBSD	RS	-	AFCRL/Block	Test	nsf-koenn	MM/Titan	-
1964-S47	2438417.50	1964 Jan 23	Titan II	-	N-26	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1964-S101	2438443.18	1964 Feb 17 1615	Titan II	-	B-15	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1964-S119	2438452.34	1964 Feb 26 2014:44	Titan II	-	N-32	0.000	AFBSD	MS	-	-	Test	MM/Titan/Wire	MM/Titan	-
1964-S147	2438467.50	1964 Mar 13	Titan II	-	N-30	0.000	AFBSD	MS	-	-	Test	MM/Titan	MM/Titan	-
1964-S165	2438478.36	1964 Mar 23 2041:57	Titan II	-	N-33	0.000	AFBSD	RS	-	AFCRL/Ulwick,Block	Test/Plume study	AFCRL	MM/Titan	-
1964-018	2438494.17	1964 Apr 8 1600:01	Titan II GLV	-	GLV-1	6.253	AFSSD/MSC	OS	-	G	Sat LEO A	SP-4203	MM/Titan	-
1964-S195	2438495.38	1964 Apr 9 2104:50	Titan II	-	N-3A	0.000	AFBSD	RS	-	AFCRL/Block	Test/Plume study	nsf-koenn	MM/Titan	-
1964-S393	2438607.14	1964 Jul 30 1520:36	Titan II	-	B-28 (62-009)	0.000	SAC	MS	-	-	OT	DKS	MM/Titan	-
1964-S417	2438619.14	1964 Aug 11 1522:43	Titan II	-	B-9 (61-2763)	0.000	SAC	MS	-	-	OT	DKS	MM/Titan	-
1964-S425	2438621.11	1964 Aug 13 1436:32	Titan II	-	B-7 (61-2761)	0.000	SAC	MS	-	-	OT	DKS	MM/Titan	-
1964-F10	2438640.13	1964 Sep 1 1500:06	Titan IIIA	-	3A-2	1.414	AFSSD	OF	S3U	G	Sat LEO A	Titan3Review	MM/Titan	Early cutoff
1964-S499	2438671.20	1964 Oct 2 1643:57	Titan II	-	B-1 (61-2755)	0.000	SAC	MS	-	-	OT	DKS	MM/Titan	-
1964-S572	2438704.21	1964 Nov 4 1658:59	Titan II	-	B-32 (62-013)	0.000	SAC	MS	-	-	OT	DKS	MM/Titan/Wire	MM/Titan
1964-S672	2438737.50	1964 Dec 8	Titan I	-	SM-85	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1964-081	2438740.20	1964 Dec 10 1653:33	Titan IIIA	-	3A-1	3.316	AFSSD	OS	-	G	Sat LEO A	Titan3Review	MM/Titan	-
1965-S37	2438775.00	1965 Jan 14 1200	Titan I	-	SM-33	0.000	SAC	MS	-	-	OT	MM/Titan/Wire	MM/Titan	-
1965-U02	2438780.09	1965 Jan 19 1404:00	Titan II GLV	-	GLV-2	6.075	AFSSD/MSC	TS	-	-	SC Test	SP-4203	MM/Titan	-
1965-008	2438803.14	1965 Feb 11 1519:05	Titan IIIA	-	3A-3	0.494	AFSSD	OS	-	G	Sat MEO O	Titan3Review-2h	MM/Titan	-
1965-S134	2438824.50	1965 Mar 5	Titan I	-	SM-80	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1965-024	2438843.10	1965 Mar 23 1424:00	Titan II GLV	-	GLV-3	3.127	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1965-S191	2438844.59	1965 Mar 25 0215:16	Titan II	-	B-60	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S240	2438867.31	1965 Apr 16 1919:55	Titan II	-	B-45	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S271	2438881.30	1965 Apr 30 1905:07	Titan II	-	B-54	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-034	2438887.13	1965 May 6 1500:03	Titan IIIA	-	3A-6	2.500	AFSSD	OS	-	G	Sat MEO O	Titan3Review	MM/Titan	-
1965-S302	2438902.50	1965 May 21 2353:25	Titan II	-	B-51	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-043	2438915.14	1965 Jun 3 1516:00	Titan II GLV	-	GLV-4	3.581	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1965-S356	2438926.06	1965 Jun 14 1331:30	Titan II	-	B-22	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-047	2438930.08	1965 Jun 18 1400:04	Titan IIIC	-	3C-7	8.948	AFSSD	OS	-	G	Sat LEO O	Titan3Review	MM/Titan	-
1965-S413	2438942.10	1965 Jun 30 1429:30	Titan II	-	B-30	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S429	2438963.26	1965 Jul 21 1818:46	Titan II	-	B-62	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S468	2438989.34	1965 Aug 16 2004:56	Titan II	-	B-6	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-068	2438994.08	1965 Aug 21 1400:00	Titan II GLV	-	GLV-5	3.338	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1965-S479	2438998.50	1965 Aug 26 0004:43	Titan II	-	B-19	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S505	2439025.09	1965 Sep 21 1404:23	Titan II	-	B-58	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-082	2439049.22	1965 Oct 15 1723:59	Titan IIIC	-	3C-4	0.574	AFSSD	OS	-	G	Sat LEO O	Titan3Review	MM/Titan	-
1965-S565	2439054.26	1965 Oct 20 1809:22	Titan II	-	B-33	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S653	2439091.92	1965 Nov 27 1000:50	Titan II	-	B-20	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1965-S660	2439095.11	1965 Nov 30 1444:33	Titan II	-	B-4	0.000	SAC	MS	-	-	OT	PH	MM/Titan	Fell short
1965-100	2439099.31	1965 Dec 4 1930:04	Titan II GLV	-	GLV-7	3.345	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1965-A245	2439107.12	1965 Dec 12 1454:06	Titan II GLV	-	GLV-6	0.000	AFSSD/MSC	OE	-	G	Sat LEO O	SP-4203	MM/Titan	Abort, no launch
1965-104	2439110.07	1965 Dec 15 1337:26	Titan II GLV	-	GLV-6	3.083	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1965-108	2439116.08	1965 Dec 21 1400:01	Titan IIIC	-	3C-8	2.230	AFSSD	OS	-	G	Sat GEO SO	Titan3Review	MM/Titan	-
1965-S694	2439117.09	1965 Dec 22 1410:45	Titan II	-	B-73	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1966-S95	2439159.97	1966 Feb 3 1111:03	Titan II	-	B-87	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1966-S115	2439173.91	1966 Feb 17 0945:52	Titan II	-	B-61	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1966-020	2439201.20	1966 Mar 16 1641:02	Titan II GLV	-	GLV-8	3.369	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1966-S190	2439209.90	1966 Mar 25 0942:03	Titan II	-	B-16	0.000	SAC	MS	-	-	OT	PH	VAFB	-
1966-S211	2439221.18	1966 Apr 5 1620:19	Titan II	-	B-50	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1966-S224	2439235.86	1966 Apr 20 0844:54	Titan II	-	B-55	0.000	SAC	MS	-	-	OT	PH	MM/Titan	-
1966-S278	2439269.50	1966 May 24	Titan II	-	B-91	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1966-047	2439280.07	1966 Jun 3 1339:33	Titan II GLV	-	GT-9	3.921	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1966-053	2439293.08	1966 Jun 16 1400:01	Titan IIIC	-	3C-11	0.362	AFSSD	OS	-	G	Sat GEO SO	Titan3Review	MM/Titan	-
1966-066	2439325.43	1966 Jul 18 2220:27	Titan II GLV	-	GLV-10	3.323	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1966-S385	2439328.50	1966 Jul 22	Titan II	-	B-95	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1966-069	2439336.27	1966 Jul 29 1830:20	Titan IIIB	-	3B-1	3.650	AFSSD	OS	-	G	Sat LEO A	GAMHEX-G27	MM/Titan	-
1966-F08	2439364.08	1966 Aug 26 1359:56	Titan IIIC	-	3C-12	0.360	AFSSD	OF	FF	G	Sat GEO SO	Titan3Review	MM/Titan	Fairing failed
1966-081	2439381.11	1966 Sep 12 1442:27	Titan II GLV	-	GLV-11	3.519	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1966-S488	2439384.50	1966 Sep 16	Titan II	-	B-40	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1966-086	2439397.30	1966 Sep 28 1907	Titan IIIB	-	3B-2	3.650	AFSSD	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1966-099	2439433.08	1966 Nov 3 1350:42	Titan IIIC	-	3C-9	11.269	AFSSD	OS	-	G	Sat LEO O	OMNS-T3C-9	MM/Titan	-
1966-104	2439441.37	1966 Nov 11 2046:33	Titan II GLV	-	GLV-12	3.261	AFSSD/MSC	OS	-	G	Sat LEO O	SP-4203	MM/Titan	-
1966-S652	2439453.92	1966 Nov 24 1000	Titan II	-	B-68	0.000	SAC	MS	-	-	OT	Wire	MM/Titan	-
1966-113	2439474.26	1966 Dec 14 1814	Titan IIIB	-	3B-3	3.650	AFSSD	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1967-003	2439509.10	1967 Jan 18 1419:08	Titan IIIC	-	3C-13	0.360	AFSSD	OS	-	G	Sat GEO SO	Titan3Review	MM/Titan	-
1967-016	2439546.33	1967 Feb 24 1959	Titan IIIB	-	3B-4	3.650	AFSSD	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1967-S163	2439566.50	1967 Mar 17	Titan II	-	B-76	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1967-S208	2439592.50	1967 Apr 12	Titan II	-	B-81	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1967-F04	2439607.25	1967 Apr 26 1800	Titan IIIB	-	3B-5	2.440	AFSSD	OF	S2P	G	Sat LEO A	LR670426	MM/Titan	Velocity too low at S2/S3 sep
1967-040	2439608.92	1967 Apr 28 1001:01	Titan IIIC	-	3C-10	0.706	AFSSD	OS	-	G	Sat HEO SO	Titan3Review	MM/Titan	-
1967-064	2439662.18	1967 Jun 20 1615	Titan IIIB	-	3B-8	3.650	AFSSD	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1967-S319	2439664.50	1967 Jun 23	Titan II	-	B-70	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1967-066	2439673.05	1967 Jul 1 1315:01	Titan IIIC	-	3C-14	0.500	SAMSO	OS	-	G	Sat GEO SO	Titan3Review	MM/Titan	-
1967-079	2439719.21	1967 Aug 16 1707	Titan IIIB	-	3B-9	3.650	SAMSO	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1967-S431	2439744.50	1967 Sep 11	Titan II	-	B-21	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1967-090	2439753.28	1967 Sep 19 1837	Titan IIIB	-	3B-10	3.650	SAMSO	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1967-103	2439789.30	1967 Oct 25 1915	Titan IIIB	-	3B-11	3.650	SAMSO	OS	-	G	Sat LEO A	LR671026	MM/Titan	-
1967-121	2439830.28	1967 Dec 5 1845	Titan IIIB	-	3B-12	3.650	SAMSO	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1968-005	2439874.29	1968 Jan 18 1904	Titan IIIB	-	3B-13	3.650	SAMSO	OS	-	G	Sat LEO A	LR680118	MM/Titan	-
1968-S155	2439915.12	1968 Feb 28 1500	Titan II	-	B-88	0.000	SAC	MS	-	-	OT	Wire	MM/Titan	-
1968-018	2439929.33	1968 Mar 13 1951	Titan IIIB	-	3B-14	3.650	SAMSO	OS	-	G	Sat SSO A	GAMHEX-G2	MM/Titan	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S250	2439948.50	1968 Apr 2	Titan II	-	B-36	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1968-031	2439964.21	1968 Apr 17 1700	Titan IIIB	-	3B-15	3.650	SAMSO	OS	-	G	Sat LEO A	LR680417	MM/Titan	-
1968-047	2440013.23	1968 Jun 5 1733	Titan IIIB	-	3B-16	3.650	SAMSO	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1968-S374	2440019.50	1968 Jun 12	Titan II	-	B-82	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1968-050	2440021.09	1968 Jun 13 1403:50	Titan IIIC	-	3C-16	0.360	SAMSO	OS	-	G	Sat GEO SO	AFT3	MM/Titan	-
1968-064	2440075.19	1968 Aug 6 1630	Titan IIIB	-	3B-17	3.650	SAMSO	OS	-	G	Sat LEO A	GAMHEX-G2	MM/Titan	-
1968-S466	2440090.04	1968 Aug 21 1300?	Titan II	-	B-53	0.000	SAC	MS	-	-	OT	ProjBlueBook	MM/Titan	-
1968-074	2440110.27	1968 Sep 10 1830	Titan IIIB	-	3B-18	3.650	SAMSO	OS	-	G	Sat LEO A	LR680910	MM/Titan	-
1968-081	2440125.82	1968 Sep 26 0737:01	Titan IIIC	-	3C-5	0.392	SAMSO	OS	-	G	Sat GEO SO	AFT3	MM/Titan	-
1968-099	2440167.30	1968 Nov 6 1910	Titan IIIB	-	3B-19	3.807	SAMSO	OS	-	G	Sat LEO A	LR681107	MM/Titan	-
1968-S588	2440179.50	1968 Nov 19	Titan II	-	B-3	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1968-108	2440195.31	1968 Dec 4 1923	Titan IIIB	-	3B-20	3.807	SAMSO	OS	-	G	Sat LEO A	LR681205	MM/Titan	-
1969-007	2440244.30	1969 Jan 22 1910	Titan IIIB	-	3B-6	3.807	SAMSO	OS	-	G	Sat LEO A	LR690122	MM/Titan	-
1969-013	2440262.38	1969 Feb 9 2109:00	Titan IIIC	-	3C-17	0.721	SAMSO	OS	-	G	Sat GEO SO	AFT3	MM/Titan	-
1969-019	2440285.31	1969 Mar 4 1930	Titan IIIB	-	3B-7	3.807	SAMSO	OS	-	G	Sat LEO A	LR690305	MM/Titan	-
1969-039	2440327.23	1969 Apr 15 1730	Titan IIIB	-	3B-21	3.807	SAMSO	OS	-	G	Sat LEO A	LR690415	MM/Titan	-
1969-S335	2440361.50	1969 May 20	Titan II	-	B-83	0.000	SAC	MS	-	-	OT	MM/Titan	MM/Titan	-
1969-046	2440364.83	1969 May 23 0757:01	Titan IIIC	-	3C-15	0.740	SAMSO	OS	-	G	Sat HEO SO	AFT3	MM/Titan	-
1969-050	2440376.20	1969 Jun 3 1649	Titan IIIB	-	3B-22	3.807	SAMSO	OS	-	G	Sat LEO A	LR690603	MM/Titan	-
1969-074	2440457.17	1969 Aug 23 1600	Titan 23B	-	23B-1 (3B-23)	3.964	SAMSO	OS	-	G	Sat LEO A	LR690823	MM/Titan	-
1969-095	2440519.26	1969 Oct 24 1810	Titan 23B	-	23B-2 (3B-24)	4.414	SAMSO	OS	-	G	Sat LEO A	JG9602	MM/Titan	-
1970-002	2440601.28	1970 Jan 14 1843	Titan 23B	-	23B-3 (3B-25)	4.414	SAMSO	OS	-	G	Sat LEO A	JG9602	MM/Titan	-
1970-027	2440684.95	1970 Apr 8 1050:01	Titan IIIC	-	3C-18	0.717	SAMSO	OS	-	G	Sat HEO SO	AFT3	MM/Titan	-
1970-031	2440692.16	1970 Apr 15 1552	Titan 23B	-	23B-4 (3B-26)	4.414	SAMSO	OS	-	G	Sat LEO A	JG9602	MM/Titan	-
1970-048	2440763.12	1970 Jun 25 1450	Titan 23B	-	23B-5 (3B-27)	4.414	SAMSO	OS	-	G	Sat LEO A	LR700625	MM/Titan	-
1970-061	2440817.11	1970 Aug 18 1445	Titan 23B	-	23B-6 (3B-28)	4.414	SAMSO	OS	-	G	Sat LEO A	LR700818	MM/Titan	-
1970-090	2440883.24	1970 Oct 23 1740	Titan 23B	-	23B-7 (3B-29)	4.414	SAMSO	OS	-	G	Sat LEO A	LR701024	MM/Titan	-
1970-093	2440896.94	1970 Nov 6 1035:57	Titan IIIC	-	23C-1 (3C-19)	0.894	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1971-005	2440973.26	1971 Jan 21 1820	Titan 23B	-	23B-8 (3B-30)	4.414	SAMSO	OS	-	G	Sat LEO A	Wire	MM/Titan	-
1971-021	2441031.66	1971 Mar 21 0345	Titan 33B	-	33B-1 (3B-36)	1.000	SAMSO	OS	-	G	Sat MOL O	LR710322	MM/Titan	-
1971-033	2441064.15	1971 Apr 22 1530	Titan 23B	-	23B-9 (3B-31)	4.414	SAMSO	OS	-	G	Sat LEO A	LR710422	MM/Titan	-
1971-039	2441076.82	1971 May 5 0743:01	Titan IIIC	-	23C-2 (3C-20)	0.903	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1971-056	2441118.28	1971 Jun 15 1841	Titan IIID	-	23D-1	9.356	SAMSO	OS	-	G	Sat SSO O	Wire	MM/Titan	-
1971-S333	2441123.45	1971 Jun 20 2245	Titan II	-	B-12	0.000	SAC	MS	-	-	Target	Wire	MM/Titan	-
1971-070	2441176.15	1971 Aug 12 1530	Titan 24B	-	24B-1 (3B-32)	4.414	SAMSO	OS	-	G	Sat LEO A	LR710911	MM/Titan	-
1971-S413	2441191.60	1971 Aug 28 0222	Titan II	-	B-100	0.000	SAC	MS	-	-	Target	Wire	MM/Titan	-
1971-092	2441248.22	1971 Oct 23 1710	Titan 24B	-	24B-2 (3B-33)	4.414	SAMSO	OS	-	G	Sat LEO A	Wire	MM/Titan	-
1971-095	2441258.63	1971 Nov 3 0309:06	Titan IIIC	-	23C-3 (3C-21)	1.052	SAMSO	OS	-	G	Sat GEO OO	FT3	M/Titan	-
1972-002	2441337.27	1972 Jan 20 1836	Titan IIID	-	23D-2	9.193	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1972-F01	2441363.92	1972 Feb 16 0959	Titan 33B	-	33B-2 (3B-37)	1.000	SAMSO	OF	S2	G	Sat MOL O	AP	MM/Titan	Details unknown
1972-010	2441377.90	1972 Mar 1 0939:28	Titan IIIC	-	23C-4 (3C-22)	0.903	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1972-016	2441394.21	1972 Mar 17 1700	Titan 24B	-	24B-3 (3B-34)	4.392	SAMSO	OS	-	G	Sat LEO A	Wire	MM/Titan	-
1972-F03	2441458.15	1972 May 20 1530	Titan 24B	-	24B-4 (3B-35)	4.500	SAMSO	OF	S2G	G	Sat LEO A	Wire	MM/Titan	Control gas issue
1972-S208	2441462.49	1972 May 24 2345	Titan II	-	B-46	0.000	SAC	MS	-	-	Target	Wire	MM/Titan	-
1972-052	2441506.24	1972 Jul 7 1746	Titan IIID	-	23D-5	9.075	SAMSO	OS	-	G	Sat SSO O	HEXSTORY	MM/Titan	-
1972-068	2441562.23	1972 Sep 1 1736	Titan 24B	-	24B-5 (3B-39)	4.414	SAMSO	OS	-	G	Sat LEO A	Wire	MM/Titan	-
1972-079	2441601.25	1972 Oct 10 1803	Titan IIID	-	23D-3	8.904	SAMSO	OS	-	G	Sat SSO O	Wire	MM/Titan	-
1972-S339	2441601.98	1972 Oct 11 1130	Titan II	-	B-78	0.000	SAC	MS	-	-	Target	Wire	MM/Titan	-
1972-103	2441673.24	1972 Dec 21 1745	Titan 24B	-	24B-6 (3B-40)	4.414	SAMSO	OS	-	G	Sat LEO A	LR721221	MM/Titan	-
1973-014	2441751.38	1973 Mar 9 2100	Titan IIID	-	23D-6	9.527	SAMSO	OS	-	G	Sat SSO O	LR730310	MM/Titan	-
1973-028	2441819.19	1973 May 16 1640	Titan 24B	-	24B-7 (3B-41)	4.414	SAMSO	OS	-	G	Sat LEO A	LR730516	MM/Titan	-
1973-040	2441845.80	1973 Jun 12 0714:05	Titan IIIC	-	23C-6 (3C-24)	0.966	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1973-F04	2441860.21	1973 Jun 26 1700	Titan 24B	-	24B-9 (3B-43)	4.500	SAMSO	OF	S2P	G	Sat LEO A	LR730626	MM/Titan	Fuel valve
1973-046	2441877.35	1973 Jul 13 2022	Titan IIID	-	23D-7	9.526	SAMSO	OS	-	G	Sat SSO O	RAE/Wire	MM/Titan	-
1973-056	2441916.17	1973 Aug 21 1607	Titan 33B	-	33B-3 (3B-38)	1.000	SAMSO	OS	-	G	Sat MOL O	JCM	MM/Titan	-
1973-068	2441953.22	1973 Sep 27 1715	Titan 24B	-	24B-8 (3B-42)	4.414	SAMSO	OS	-	G	Sat LEO A	JCM	MM/Titan	-
1973-S342	2441961.50	1973 Oct 6	Titan II	-	B-69	0.000	SAC	MS	-	-	Target	MM/Titan/Wire	MM/Titan	-
1973-088	2441997.34	1973 Nov 10 2012?	Titan IIID	-	23D-8	11.199	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1973-100	2442030.50	1973 Dec 13 2357:01	Titan IIIC	-	23C-8 (3C-26)	1.170	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1974-F01	2442090.08	1974 Feb 11 1348:02	Titan IIIE	-	23E-1/TC-1	3.611	LERC/SAMSO	OF	S3I	G	Sat GEO OO	TR-1022	MM/Titan	No ignition
1974-007	2442092.25	1974 Feb 13 1800?	Titan 24B	-	24B-10 (3B-44)	4.414	SAMSO	OS	-	G	Sat LEO A	TLE	MM/Titan	-
1974-S123	2442107.90	1974 Mar 1 0940	Titan II	-	B-85	0.000	SAC	MS	-	-	Target	LR740301	MM/Titan	-
1974-020	2442148.35	1974 Apr 10 2020:01	Titan IIID	-	23D-9	10.744	SAMSO	OS	-	G	Sat LEO O	TLE	MM/Titan	-
1974-039	2442198.04	1974 May 30 1300:01	Titan IIIC	-	23C-9 (3C-27)	1.357	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1974-042	2442205.19	1974 Jun 6 1630	Titan 24B	-	24B-11 (3B-45)	4.414	SAMSO	OS	-	G	Sat LEO A	LR740606	MM/Titan	-
1974-065	2442274.16	1974 Aug 14 1545	Titan 24B	-	24B-12 (3B-46)	4.414	SAMSO	OS	-	G	Sat LEO A	JCM	MM/Titan	-
1974-085	2442350.31	1974 Oct 29 1930:00	Titan IIID	-	23D-4	10.506	SAMSO	OS	-	G	Sat SSO O	Wire	MM/Titan	-
1974-097	2442391.80	1974 Dec 10 0711:02	Titan IIIE	-	23E-2/TC-2	0.453	LERC/SAMSO	DS	-	G	Sat EEO SOE	TR-1022	MM/Titan	-
1975-S34	2442422.60	1975 Jan 10 0227:56	Titan II	-	B-27	0.000	SAC	MS	-	-	Target	PH	MM/Titan	-
1975-017	2442481.70	1975 Mar 10 0441	Titan 34B	-	34B-1 (3B-50)	1.000	SAMSO	OS	-	G	Sat MOL O	JCM	MM/Titan	-
1975-032	2442521.20	1975 Apr 18 1645?	Titan 24B	-	24B-14 (3B-48)	4.414	SAMSO	OS	-	G	Sat LEO A	TLE	MM/Titan	-
1975-040	2442553.09	1975 May 20 1403:48	Titan IIIC	-	23C-7 (3C-25)	1.070	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1975-051	2442572.27	1975 Jun 8 1830	Titan IIID	-	23D-10	10.964	SAMSO	OS	-	G	Sat SSO O	LR750609	MM/Titan	-
1975-S238	2442632.58	1975 Aug 8 0150	Titan II	-	B-52	0.000	SAC	MS	-	-	Target	SantaAnaReg750808-54	MM/Titan	-
1975-075	2442645.39	1975 Aug 20 2122:00	Titan IIIE	-	23E-4/TC-4	3.519	LERC/SAMSO	DS	-	G	Sat EEO E	AFT3	TR-1022	-
1975-083	2442665.28	1975 Sep 9 1839:00	Titan IIIE	-	23E-3/TC-3	3.519	LERC/SAMSO	DS	-	G	Sat EEO E	AFT3	TR-1022	-
1975-098	2442695.30	1975 Oct 9 1915	Titan 24B	-	24B-13 (3B-47)	4.414	SAMSO	OS	-	G	Sat SSO A	Wire	MM/Titan	-
1975-114	2442751.35	1975 Dec 4 2030?	Titan IIID	-	23D-13	11.001	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1975-S344	2442751.69	1975 Dec 5 0430	Titan II	-	B-41	0.000	SAC	MS	-	-	Target	VAFB	LR751205	MM/Titan
1975-118	2442760.72	1975 Dec 14 0515:00	Titan IIIC	-	23C-11 (3C-29)	1.041	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1976-003	2442792.73	1976 Jan 15 0534:00	Titan IIIE	-	23E-5/TC-5	0.453	LERC/SAMSO	DS	-	G	Sat EEO E	AFT3	MM/Titan	-
1976-023	2442852.56	1976 Mar 15 0125:40	Titan IIIC	-	23C-12 (3C-30)	1.304	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1976-027	2442860.26	1976 Mar 22 1814?	Titan 24B	-	24B-18 (3B-52)	4.414	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1976-050	2442932.37	1976 Jun 2 2056	Titan 34B	-	34B-5 (3B-55)	0.800	SAMSO	OS	-	G	Sat MOL O	JG9602	MM/Titan	-
1976-059	2442955.63	1976 Jun 26 0300:01	Titan IIIC	-	23C-10 (3C-28)	1.041	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1976-S215	2442957.61	1976 Jun 28 0240:53	Titan II	-	B-17	0.000	SAC	MS	-	-	Target	PH	MM/Titan	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1976-065	2442968.27	1976 Jul 8 1830	Titan IIID	-	23D-14	11.429	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1976-080	2442997.43	1976 Aug 6 2221	Titan 34B	-	34B-6 (3B-56)	0.800	SAMSO	OS	-	G	Sat MOL O	JG9602	MM/Titan	-
1976-094	2443037.28	1976 Sep 15 1850	Titan 24B	-	24B-17 (3B-51)	4.414	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1976-125	2443132.26	1976 Dec 19 1819	Titan IIID	-	23D-15	13.500	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1977-007	2443180.75	1977 Feb 6 0600:01	Titan IIIC	-	23C-5 (3C-23)	1.041	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1977-019	2443216.28	1977 Mar 13 1841:10	Titan 24B	-	24B-19 (3B-54)	4.100	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1977-034	2443276.10	1977 May 12 1426:58	Titan IIIC	-	23C-14 (3C-32)	1.224	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1977-056	2443322.27	1977 Jun 27 1830	Titan IIID	-	23D-17	11.431	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1977-076	2443376.10	1977 Aug 20 1429:44	Titan IIIE	-	23E-7/TC-7	1.026	LERC/SAMSO	DS	-	G	Sat EEO EE	AFT3	MM/Titan	-
1977-084	2443392.04	1977 Sep 5 1256:01	Titan IIIE	-	23E-6/TC-6	1.026	LERC/SAMSO	DS	-	G	Sat EEO EE	AFT3	MM/Titan	-
1977-094	2443410.27	1977 Sep 23 1834	Titan 24B	-	24B-23 (3B-58)	4.100	SAMSO	OS	-	G	Sat SSO O	JG9602	MM/Titan	-
1978-021	2443564.71	1978 Feb 25 0500?	Titan 34B	-	34B-2 (3B-49)	1.000	SAMSO	OS	-	G	Sat MOL O	RAE	MM/Titan	-
1978-029	2443584.28	1978 Mar 16 1840?	Titan IIID	-	23D-20	11.831	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1978-F01	2443593.26	1978 Mar 25 1809:00	Titan IIIC	-	23C-17 (3C-35)	1.200	SAMSO	OF	S2P	G	Sat GEO OO	AFT3	MM/Titan	S2 underperformed
1978-058	2443670.30	1978 Jun 10 1908	Titan IIIC	-	23C-15 (3C-33)	1.000	SAMSO	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1978-060	2443674.27	1978 Jun 14 1823?	Titan IIID	-	23D-18	13.500	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1978-075	2443725.71	1978 Aug 5 0500?	Titan 34B	-	34B-7 (3B-57)	0.800	SAMSO	OS	-	G	Sat MOL O	RAE	MM/Titan	-
1978-113	2443856.53	1978 Dec 14 0040:02	Titan IIIC	-	23C-18 (3C-36)	1.220	SAMSO	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1979-025	2443949.27	1979 Mar 16 1830	Titan IIID	-	23D-21	11.831	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1979-044	2444022.27	1979 May 28 1830	Titan 24B	-	24B-25 (3B-61)	4.100	SAMSO	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1979-053	2444035.07	1979 Jun 10 1339:00	Titan IIIC	-	23C-13 (3C-31)	1.181	SAMSO	OS	-	G	Sat GEO OO	CCMOPS	MM/Titan	-
1979-086	2444147.97	1979 Oct 1 1122:00	Titan IIIC	-	23C-16 (3C-34)	1.000	AFSD	OS	-	G	Sat GEO OO	AFT3	MM/Titan	-
1979-098	2444198.59	1979 Nov 21 0209:36	Titan IIIC	-	23C-19 (3C-37)	1.220	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1980-010	2444277.38	1980 Feb 7 2110	Titan IIID	-	23D-19	13.500	AFSD	OS	-	G	Sat SSO O	LR800208	MM/Titan	-
1980-052	2444409.27	1980 Jun 18 1830	Titan IIID	-	23D-16	11.611	AFSD	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1980-E02	2444501.83	1980 Sep 19 0800	Titan II	-	-	0.000	SAC	ME	-	-	Explosion	CommandAndControl	-	-
1980-100	2444587.17	1980 Dec 13 1604	Titan 34B	-	34B-3 (3B-53)	0.800	AFSD	OS	-	G	Sat MOL O	Insprucker	MM/Titan	-
1981-019	2444664.30	1981 Feb 28 1910?	Titan 24B	-	24B-24 (3B-59)	4.100	AFSD	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1981-025	2444680.31	1981 Mar 16 1924:00	Titan IIIC	-	23C-22 (3C-40)	1.180	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1981-038	2444719.40	1981 Apr 24 2132	Titan 34B	-	34B-8 (3B-60)	1.000	AFSD	OS	-	G	Sat MOL O	LR810426	MM/Titan	-
1981-085	2444851.27	1981 Sep 3 1829?	Titan IIID	-	23D-22	13.500	AFSD	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1981-107	2444908.89	1981 Oct 31 0922:00	Titan IIIC	-	23C-21 (3C-39)	1.000	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1982-006	2444991.31	1982 Jan 21 1930:01	Titan 24B	-	24B-26 (3B-62)	4.183	AFSD	OS	-	G	Sat SSO A	Insprucker	MM/Titan	-
1982-019	2445035.31	1982 Mar 6 1925:00	Titan IIIC	-	23C-20 (3C-38)	1.180	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1982-041	2445101.27	1982 May 11 1835	Titan IIID	-	23D-24	11.882	AFSD	OS	-	G	Sat SSO O	Insprucker	MM/Titan	-
1982-106	2445272.67	1982 Oct 30 0405:01	Titan 34D/IUS	-	34D-1 (04D-5?)	1.759	AFSD	OS	-	G	Sat GEO OOO	patrick.af.mil	MM/Titan	-
1982-111	2445291.39	1982 Nov 17 2118?	Titan IIID	-	23D-23	13.500	AFSD	OS	-	G	Sat SSO O	TLE	MM/Titan	-
1983-032	2445440.28	1983 Apr 15 1845	Titan 24B	-	24B-27 (3B-63)	4.100	AFSD	OS	-	G	Sat SSO A	LR830415	MM/Titan	-
1983-060	2445506.28	1983 Jun 20 1845	Titan 34D	-	34D-5 (04D-3)	11.662	AFSD	OS	-	G	Sat SSO O	LR830620	MM/Titan	-
1983-078	2445547.15	1983 Jul 31 1541	Titan 34B	-	34B-9 (3B-65)	1.000	AFSD	OS	-	G	Sat MOL O	LR830801	MM/Titan	-
1984-009	2445730.63	1984 Jan 31 0308:01	Titan 34D/Transtage	-	34D-10 (05D-1)	1.000	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1984-037	2445805.20	1984 Apr 14 1652:02	Titan 34D/Transtage	-	34D-11 (05D-2)	1.180	AFSD	OS	-	G	Sat GEO SO	patrick.af.mil	MM/Titan	-
1984-039	2445808.28	1984 Apr 17 1845	Titan 24B	-	24B-28 (3B-67)	4.100	AFSD	OS	-	G	Sat SSO A	LR840418	MM/Titan	-
1984-065	2445877.28	1984 Jun 25 1847	Titan 34D	-	34D-4 (04D-1)	10.740	AFSD	OS	-	G	Sat SSO O	Insprucker	MM/Titan	-
1984-091	2445941.25	1984 Aug 28 1803	Titan 34B	-	34B-4 (3B-64)	0.800	AFSD	OS	-	G	Sat MOL O	LR840829	MM/Titan	-
1984-122	2446039.25	1984 Dec 4 1803	Titan 34D	-	34D-6 (04D-4)	13.500	AFSD	OS	-	G	Sat SSO O	Insprucker	MM/Titan	-
1984-129	2446056.50	1984 Dec 22 0002:03	Titan 34D/Transtage	-	34D-13 (05D-3)	1.680	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1985-014	2446104.76	1985 Feb 8 0610	Titan 34B	-	34B-10 (3B-69)	0.800	AFSD	OS	-	G	Sat MOL O	LR850208	MM/Titan	-
1985-F02	2446306.39	1985 Aug 28 2120	Titan 34D	-	34D-7 (04D-6)	13.500	AFSD	OF	S1I	G	Sat SSO O	LR850829	MM/Titan	S1 engine issues
1986-F03	2446539.28	1986 Apr 18 1845:01	Titan 34D	-	34D-9 (04D-2)	10.640	AFSD	OF	SOP	G	Sat SSO O	Mishap-86-4-18-701	MM/Titan	SRM failed
1987-015	2446838.78	1987 Feb 12 0640	Titan 34B	-	34B-51 (3B-66)	0.800	AFSD	OS	-	G	Sat MOL O	LR870212	MM/Titan	-
1987-090	2447095.40	1987 Oct 26 2132	Titan 34D	-	34D-15 (04D-8)	13.500	AFSD	OS	-	G	Sat SSO O	AP	MM/Titan	-
1987-097	2447128.64	1987 Nov 29 0327:20	Titan 34D/Transtage	-	34D-8 (05D-4)	1.680	AFSD	OS	-	G	Sat GEO SO	patrick.af.mil	MM/Titan	-
1988-077	2447407.00	1988 Sep 2 1205:02	Titan 34D/Transtage	-	34D-3 (05D-5)	1.000	AFSD	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1988-078	2447409.89	1988 Sep 5 0925	Titan II SLV	-	23G-1	1.450	AFSD	OS	-	G	Sat LEO O	LR880906	MM/Titan	-
1988-099	2447472.25	1988 Nov 6 1803	Titan 34D	-	34D-14 (04D-7)	13.500	AFSD	OS	-	G	Sat SSO O	LR881107	MM/Titan	-
1989-035	2447657.32	1989 May 10 1947:01	Titan 34D/Transtage	-	34D-16 (05D-6)	1.000	AFSSD2	OS	-	G	Sat GEO OO	patrick.af.mil	MM/Titan	-
1989-046	2447692.05	1989 Jun 14 1318:01	Titan 402A/IUS	-	K-1 (45D-1)	2.361	AFSSD2	OS	-	G	Sat GEO OOO	patrick.af.mil	MM/Titan	-
1989-069	2447773.75	1989 Sep 4 0554:01	Titan 34D/Transtage	-	34D-2 (05D-7)	1.748	AFSSD2	OS	-	G	Sat GEO OO	AWST890911-41	MM/Titan	-
1989-072	2447775.58	1989 Sep 6 0148	Titan II SLV	-	23G-2	1.450	AFSSD2	OS	-	G	Sat LEO O	RAE/MAX	MM/Titan	-
1990-001	2447892.50	1990 Jan 1 0007	Commercial Titan 3	-	CT-1	8.033	MMA	OS	-	CO	Sat LEO O	Wire	MM/Titan	-
1990-021	2447964.99	1990 Mar 14 1152:31	Commercial Titan 3	-	CT-2	7.913	MMA	OF25	PA	CO	Sat LEO O	Wire	-	No payload sep
1990-050	2448050.72	1990 Jun 8 0521:41	Titan 405A	-	K-4 (45H-4)	4.200	AFSSD2	OS	-	G	Sat LEO O	patrick.af.mil	-	-
1990-056	2448065.97	1990 Jun 23 1119	Commercial Titan 3	-	CT-3	5.013	MMA	OS	-	CO	Sat LEO O	Wire	-	-
1990-095	2448208.53	1990 Nov 13 0037:02	Titan 402A/IUS	-	K-6 (45D-2)	2.380	AFSSD2	OS	-	G	Sat GEO OOO	patrick.af.mil	-	-
1991-017	2448324.00	1991 Mar 8 1203	Titan 403A	-	K-5 (45F-1)	9.000	AFSSD2	OS	-	G	Sat LEO O	Wire	-	-
1991-076	2448568.80	1991 Nov 8 0707	Titan 403A	-	K-8 (45F-2)	4.398	AFSSD2	OS	-	G	Sat LEO O	AWST911118-20	-	-
1992-023	2448737.87	1992 Apr 25 0853	Titan II SLV	-	23G-3	1.450	AFSSD2	OS	-	G	Sat LEO O	Wire	-	-
1992-063	2448891.21	1992 Sep 25 1705:01	Commercial Titan 3	-	CT-4	3.565	MMA	DS	-	CO/G	Sat EEO OE	Wire	-	-
1992-083	2448955.40	1992 Nov 28 2134	Titan 404A	-	K-3 (45J-1)	13.500	AFSMC	OS	-	G	Sat SSO O	AWST921207-19	-	-
1993-F02	2449202.33	1993 Aug 2 1959	Titan 403A	-	K-11 (45F-9)	4.200	AFSMC	OF	SOP	G	Sat LEO O	Wire	-	SRM failed
1993-F04	2449266.25	1993 Oct 5 1756	Titan II SLV	-	23G-5	2.750	AFSMC	OF	PG	G	Sat SSO A	Wire	-	PL lost attitude in burn
1994-004	2449378.19	1994 Jan 25 1634	Titan II SLV	-	23G-11	0.541	AFSMC	DS	-	G	Sat LEO O	Wire	-	-
1994-009	2449391.41	1994 Feb 7 2147:01	Titan 401A/Centaur	-	K-10/TC-12 (45E-3)	4.500	AFSMC	OS	-	G	Sat GEO O	Wire	-	-
1994-026	2449476.16	1994 May 3 1555:01	Titan 401A/Centaur	-	K-7/TC-10 (45E-1)	1.232	AFSMC	OS	-	G	Sat MOL O	Cleary06	-	-
1994-054	2449591.87	1994 Aug 27 0858:01	Titan 401A/Centaur	-	K-9/TC-11 (45E-2)	4.500	AFSMC	OS	-	G	Sat GEO O	Cleary06	-	-
1994-084	2449709.43	1994 Dec 22 2219:02	Titan 402A/IUS	-	K-14 (45D-3)	2.360	AFSMC	OS	-	G	Sat GEO OOO	Wire	-	-
1995-022	2449852.07	1995 May 14 1345:01	Titan 401A/Centaur	-	K-23/TC-17 (45E-8)	5.000	AFSMC	OS	-	G	Sat GEO O	Wire	-	-
1995-034	2449909.03	1995 Jul 10 1238:03	Titan 401A/Centaur	-	K-19/TC-8 (45E-5)	3.000	AFSMC	OS	-	G	Sat MOL O	Rigg	-	-
1995-060	2450027.72	1995 Nov 6 0515:01	Titan 401A/Centaur	-	K-21/TC-13 (45E-7)	4.500	AFSMC	OS	-	G	Sat GEO O	Rigg	-	-
1995-066	2450057.39	1995 Dec 5 2118:00	Titan 404A	-	K-15 (45J-3)	13.500	4SLS/AFSMC	OS	-	G	Sat SSO O	Rigg	-	-
1996-026	2450198.48	1996 Apr 24 2337:02	Titan 401A/Centaur	-	K-16/TC-15 (45E-4)	4.500	3SLS/AFSMC	OS	-	G	Sat GEO O	Rigg	-	-
1996-029	2450216.40	1996 May 12 2132:00	Titan 403A	-	K-22 (45F-11)	4.254	4SLS/AFSMC	OS	-	G	Sat LEO O	Rigg	-	-
1996-038	2450267.52	1996 Jul 3 0030:02	Titan 405A	-	K-2 (45H-1)	9.512	3SLS/AFSMC	OS	-	G	Sat LEO O	Wire	-	-
1996-072	2450438.25	1996 Dec 20 1804:00	Titan 404A	-	K-13 (45J-5)	13.500	4SLS/AFSMC	OS	-	G	Sat SSO O	Wire	-	-
1997-008	2450503.35	1997 Feb 23 2020:01	Titan 402B/IUS	-	4B-24 (K-24, 45D-4)	2.361	3SLS/AFSMC	OS	-	G	Sat GEO OOO	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	Launch LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1997-012	2450543.20	1997 Apr 4 1647	Titan II SLV	-	23G-6	1.462	4SLS/AFSMC	OS	-	G	Sat SSO A	Wire	-	-
1997-061	2450736.86	1997 Oct 15 0843:01	Titan 401B/Centaur	-	4B-33/TC-21 (45E-13)	5.581	LERC/AFSMC	DS	-	G	Sat EEO E	Wire	-	-
1997-064	2450745.61	1997 Oct 24 0232:00	Titan 403A	-	4A-18 (K-18, 45F-3)	9.000	4SLS/AFSMC	OS	-	G	Sat LEO O	Wire	-	-
1997-068	2450760.59	1997 Nov 8 0205:01	Titan 401A/Centaur	-	4A-17/TC-16 (45E-?)	3.020	3SLS/AFSMC	OS	-	G	Sat MEO O	Wire	-	-
1998-029	2450942.57	1998 May 9 0138:01	Titan 401B/Centaur	-	4B-25/TC-18 (K-25)	5.000	3SLS/AFSMC	OS	-	G	Sat GEO O	Wire	-	-
1998-030	2450947.16	1998 May 13 1552:04	Titan II SLV	-	23G-12	2.232	4SLS/AFSMC	OS	-	G	Sat SSO A	Wire	-	-
1998-F02	2451037.98	1998 Aug 12 1130:01	Titan 401A/Centaur	-	4A-20/TC-9 (K-17)	4.500	3SLS/AFSMC	OF	SOG	G	Sat GEO O	ISIR980831-3	-	Lost guidance then exploded
1999-017	2451278.21	1999 Apr 9 1701:00	Titan 402B/IUS	-	4B-27 (K-32)	2.360	3SLS/AFSMC	OF40	S3S	G	Sat GEO OOO	Wire	-	Bad IUS SRM1/2 sep
1999-023	2451299.19	1999 Apr 30 1630:00	Titan 401B/Centaur	-	4B-32/TC-14 (K-26)	4.500	3SLS/AFSMC	OF40	S3G	G	Sat GEO O	Wire	-	Software error caused RCS deplet
1999-028	2451320.90	1999 May 22 0936	Titan 404B	?	4B-12	10.020	2SLS/AFSMC	OS	-	G	Sat LEO O	Wire	-	-
1999-034	2451349.59	1999 Jun 20 0215:00	Titan II SLV	-	23G-7	0.970	2SLS/AFSMC	OS	-	G	Sat SSO O	Wire	-	-
1999-067	2451525.23	1999 Dec 12 1738:01	Titan II SLV	-	23G-8	1.180	2SLS/AFSMC	OS	-	G	Sat SSO A	Wire	-	-
2000-024	2451673.17	2000 May 8 1601:00	Titan 402B/IUS	-	4B-29	2.361	3SLS/AFSMC	OS	-	G	Sat GEO OOO	Wire	-	-
2000-047	2451774.49	2000 Aug 17 2345:01	Titan 403B	?	4B-28	9.000	2SLS/AFSMC	OS	-	G	Sat LEO O	Wire	-	-
2000-055	2451808.93	2000 Sep 21 1022	Titan II SLV	-	23G-13	2.231	2SLS/AFSMC	OS	-	G	Sat SSO A	Wire	-	-
2001-009	2451968.39	2001 Feb 27 2120:00	Titan 401B/Centaur	-	4B-41/TC-22 (K-30)	4.500	3SLS/AFSMC	OS	-	G	Sat GEO O	Wire	-	-
2001-033	2452127.81	2001 Aug 6 0728:00	Titan 402B/IUS	-	4B-31	2.361	3SLS/AFSMC	OS	-	G	Sat GEO OOO	Wire	-	-
2001-044	2452188.39	2001 Oct 5 2121:01	Titan 404B	?	4B-34	14.000	2SLS/AFSMC	OS	-	G	Sat SSO O	Wire	-	-
2002-001	2452290.52	2002 Jan 16 0030:01	Titan 401B/Centaur	-	4B-38/TC-19	4.500	3SLS/AFSMC	OS	-	G	Sat GEO O	Wire	-	-
2002-032	2452450.27	2002 Jun 24 1823:04	Titan II SLV	-	23G-14	2.231	2SLS/AFSMC	OS	-	G	Sat SSO A	spaceflightnow.com	-	-
2003-001	2452646.10	2003 Jan 6 1419	Titan II SLV	-	23G-4	0.827	2SLS/AFSMC	OS	-	G	Sat SSO O	orbireport.com	-	-
2003-012	2452738.07	2003 Apr 8 1343:00	Titan 401B/Centaur	-	4B-35/TC-23	4.500	3SLS/AFSMC	OS	-	G	Sat GEO O	Wire	-	-
2003-041	2452891.69	2003 Sep 9 0429:00	Titan 401B/Centaur	-	4B-36/TC-20	5.000	3SLS/AFSMC	OS	-	G	Sat GEO O	Wire	-	-
2003-048	2452931.18	2003 Oct 18 1617	Titan II SLV	-	23G-9	1.968	2SLS/AFSMC	OS	-	G	Sat SSO A	Wire	-	-
2004-004	2453050.28	2004 Feb 14 1850:00	Titan 402B/IUS	-	4B-39	2.361	3SLS/AFSMC	OS	-	G	Sat GEO OOO	Wire	-	-
2005-016	2453490.53	2005 Apr 30 0050:00	Titan 405B	?	4B-30	9.000	3SLS/AFSMC	OS	-	G	Sat LEO O	Wire	-	-
2005-042	2453663.25	2005 Oct 19 1805	Titan 404B	?	4B-26	14.000	2SLS/AFSMC	OS	-	G	Sat SSO O	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-A172	2440586.50	1970 Jan	Tochka	-	-	-	-	-	-	GTsP-4	-	-	-	20?	-	-
1973-A87	2441888.50	1973 Jul 25	Tochka	-	-	-	-	-	-	GTsP-4	-	-	-	20?	-	-
1975-A81	2442412.50	1975	Tochka	-	-	-	-	-	-	GTsP-4	-	-	-	20?	-	-
1986-A14	2446642.50	1986 Aug	Tochka-U	-	-	-	-	-	-	GTsP-4	-	-	-	26?	-	-
1988-A15	2447404.50	1988 Sep	Tochka-U	-	-	-	-	-	-	GTsP-4	-	-	-	26?	-	-
2013-A28	2456333.50	2013 Feb 10	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2013-A29	2456366.50	2013 Mar 15	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2013-A30	2456430.50	2013 May 18	KN-02	?	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2013-A31	2456431.50	2013 May 19	KN-02	?	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2013-A32	2456432.50	2013 May 20	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2013-A21	2456595.50	2013 Oct 30	Tochka-U	-	-	-	-	-	-	GTsP-4	-	-	-	26?	-	-
2013-A22	2456595.50	2013 Oct 30	Tochka-U	-	-	-	-	-	-	GTsP-4	-	-	-	26?	-	-
2013-A23	2456595.50	2013 Oct 30	Tochka-U	-	-	-	-	-	-	GTsP-4	-	-	-	26?	-	-
2014-A16	2456834.83	2014 Jun 26 0800?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A17	2456834.83	2014 Jun 26 0800?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A18	2456834.83	2014 Jun 26 0800?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A19	2456840.50	2014 Jul 2	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A20	2456840.50	2014 Jul 2	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A21	2456868.50	2014 Jul 30	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A22	2456868.50	2014 Jul 30	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A23	2456868.50	2014 Jul 30	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A24	2456868.50	2014 Jul 30	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A25	2456883.50	2014 Aug 14	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A26	2456883.50	2014 Aug 14	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A27	2456883.50	2014 Aug 14	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A28	2456883.50	2014 Aug 14	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2014-A29	2456883.50	2014 Aug 14	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	220	-
2015-A44	2457061.80	2015 Feb 8 0710?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	200	-
2015-A45	2457061.81	2015 Feb 8 0730?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	200	-
2015-A46	2457061.81	2015 Feb 8 0730?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	200	-
2015-A47	2457061.81	2015 Feb 8 0730?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	200	-
2015-A48	2457061.84	2015 Feb 8 0810?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	200	-
2015-A49	2457114.56	2015 Apr 2 0130?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	140	-
2015-A50	2457115.80	2015 Apr 3 0714	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	150?	-
2015-A51	2457115.81	2015 Apr 3 0730?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	150?	-
2015-A52	2457115.81	2015 Apr 3 0730?	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	150?	-
2015-A53	2457115.83	2015 Apr 3 0800	KN-02	-	-	-	-	-	-	WONSAN	LP3?	-	-	50?	150?	-
2015-A29	2457269.50	2015 Sep 4	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2015-A26	2457370.50	2015 Dec 14	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Bab alMandab
2015-A30	2457374.50	2015 Dec 18	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2015-A35	2457380.50	2015 Dec 24	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	AnadAB
2016-A23	2457404.50	2016 Jan 17	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2016-A21	2457405.50	2016 Jan 18	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2016-A22	2457417.50	2016 Jan 30	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	AnadAB, Lahj
2016-A20	2457423.50	2016 Feb 5	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2016-A11	2457449.50	2016 Mar 2	Tochka	?	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2016-A12	2457450.50	2016 Mar 3	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Mareb
2016-A31	2457484.50	2016 Apr 6	Tochka	-	-	-	-	-	-	SADAH?	-	-	-	40?	-	Al-Hazm
2016-A61	2457586.50	2016 Jul 17	Tochka	-	-	-	-	-	-	YEMEN	-	-	-	40?	-	Taiz
2016-A66	2457594.50	2016 Jul 25	Tochka	-	-	-	-	-	-	YEMEN	-	-	-	40?	-	Jizan
2016-A86	2457707.50	2016 Nov 15	Tochka	-	-	-	-	-	-	YEMEN	-	-	-	40?	-	Najran
2018-A104	2458284.50	2018 Jun 15	Tochka	-	-	-	-	-	-	YEMEN	-	-	-	40?	-	W Coast
2018-A118	2458310.50	2018 Jul 11	Tochka	-	-	-	-	-	-	YEMEN	-	-	-	40?	-	W Coast
2021-A17	2459423.50	2021 Jul 28	Tochka-U	-	-	-	-	-	-	ALIBEY	-	-	-	40?	-	Black Sea
2021-A18	2459424.50	2021 Jul 29	Tochka-U	-	-	-	-	-	-	ALIBEY	-	-	-	40?	-	Black Sea

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-A172	2440586.50	1970 Jan	Tochka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1973-A87	2441888.50	1973 Jul 25	Tochka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1975-A81	2442412.50	1975	Tochka	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1986-A14	2446642.50	1986 Aug	Tochka-U	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
1988-A15	2447404.50	1988 Sep	Tochka-U	-	-	0.000	RVSN	MS	-	-	Test	KY60	-	-
2013-A28	2456333.50	2013 Feb 10	KN-02	-	-	0.000	JRG	MS	-	-	OT	38north.com	-	-
2013-A29	2456366.50	2013 Mar 15	KN-02	-	-	0.000	JRG	MS	-	-	OT	38north.com	-	-
2013-A30	2456430.50	2013 May 18	KN-02	?	-	0.000	JRG	MS	-	-	OT	38north.com	-	-
2013-A31	2456431.50	2013 May 19	KN-02	?	-	0.000	JRG	MS	-	-	OT	38north.com	-	-
2013-A32	2456432.50	2013 May 20	KN-02	-	-	0.000	JRG	MS	-	-	OT	38north.com	-	-
2013-A21	2456595.50	2013 Oct 30	Tochka-U	-	-	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
2013-A22	2456595.50	2013 Oct 30	Tochka-U	-	-	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
2013-A23	2456595.50	2013 Oct 30	Tochka-U	-	-	0.000	RVSN	MS	-	-	Test	russianforces.org	-	-
2014-A16	2456834.83	2014 Jun 26 0800?	KN-02	-	-	0.000	JRG	MS	-	-	OT	mod.go.jp	-	-
2014-A17	2456834.83	2014 Jun 26 0800?	KN-02	-	-	0.000	JRG	MS	-	-	OT	mod.go.jp	-	-
2014-A18	2456834.83	2014 Jun 26 0800?	KN-02	-	-	0.000	JRG	MS	-	-	OT	mod.go.jp	-	-
2014-A19	2456840.50	2014 Jul 2	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A20	2456840.50	2014 Jul 2	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A21	2456868.50	2014 Jul 30	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A22	2456868.50	2014 Jul 30	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A23	2456868.50	2014 Jul 30	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A24	2456868.50	2014 Jul 30	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A25	2456883.50	2014 Aug 14	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A26	2456883.50	2014 Aug 14	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A27	2456883.50	2014 Aug 14	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A28	2456883.50	2014 Aug 14	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2014-A29	2456883.50	2014 Aug 14	KN-02	-	-	0.000	JRG	MS	-	-	OT	armscontrolwonk.com	-	-
2015-A44	2457061.80	2015 Feb 8 0710?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A45	2457061.81	2015 Feb 8 0730?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A46	2457061.81	2015 Feb 8 0730?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A47	2457061.81	2015 Feb 8 0730?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A48	2457061.84	2015 Feb 8 0810?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A49	2457114.56	2015 Apr 2 0130?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A50	2457115.80	2015 Apr 3 0714	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A51	2457115.81	2015 Apr 3 0730?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A52	2457115.81	2015 Apr 3 0730?	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A53	2457115.83	2015 Apr 3 0800	KN-02	-	-	0.000	JRG	MS	-	-	OT	UN/S/2016/157	-	-
2015-A29	2457269.50	2015 Sep 4	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A26	2457370.50	2015 Dec 14	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A30	2457374.50	2015 Dec 18	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A35	2457380.50	2015 Dec 24	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A23	2457404.50	2016 Jan 17	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A21	2457405.50	2016 Jan 18	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A22	2457417.50	2016 Jan 30	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A20	2457423.50	2016 Feb 5	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A11	2457449.50	2016 Mar 2	Tochka	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A12	2457450.50	2016 Mar 3	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A31	2457484.50	2016 Apr 6	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A61	2457586.50	2016 Jul 17	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A66	2457594.50	2016 Jul 25	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A86	2457707.50	2016 Nov 15	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A104	2458284.50	2018 Jun 15	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A118	2458310.50	2018 Jul 11	Tochka	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2021-A17	2459423.50	2021 Jul 28	Tochka-U	-	-	0.000	ZSU	MS	-	-	Test	yuzhnoye.com	-	-
2021-A18	2459424.50	2021 Jul 29	Tochka-U	-	-	0.000	ZSU	MS	-	-	Test	yuzhnoye.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-S269	2438192.50	1963 Jun 12	Tomahawk	-	Sandia 152-1	Seagull (IQSY)	-	-	-	TTR	-	-	-	105	-	-
1963-A100	2438210.50	1963 Jun 30	Tomahawk	-	IQSY Tomahawk	-	-	-	-	PM	-	-	-	10	-	-
1964-S136	2438464.50	1964 Mar 10	Tomahawk	-	Sandia 152-5	Tomahawk-Dart 7"	-	-	-	TTR	-	-	-	105	-	-
1964-S484	2438663.50	1964 Sep 25	Tomahawk	-	IQSY Tomahawk	-	-	-	-	WI	-	-	-	100	-	-
1964-S508	2438676.50	1964 Oct 8	Tomahawk	-	Sandia 152-37	Darthawk 6.5"	-	-	-	KAU	-	-	-	92	-	-
1964-S521	2438682.50	1964 Oct 14	Tomahawk	-	Sandia 152-38	Darthawk 6.5"	-	-	-	KAU	-	-	-	91	-	-
1964-A156	2438688.50	1964 Oct 20	Tomahawk	-	Sandia 152-69	Ballistic	-	-	-	TTR	-	-	-	0?	-	-
1965-S704	2438760.50	1965?	Tomahawk	-	Sandia 276-2	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1965-S41	2438780.50	1965 Jan 20	Tomahawk	-	Sandia 152-14	Magnus Stovepipe	-	-	-	TTR	-	-	-	106	-	-
1965-S70	2438793.50	1965 Feb 2	Tomahawk	-	Sandia 152-17	Magnus	-	-	-	TTR	-	-	-	106	-	-
1965-S72	2438794.50	1965 Feb 3	Tomahawk	-	Sandia 152-47	Magnus	-	-	-	TTR	-	-	-	106	-	-
1965-M08	2438820.50	1965 Mar 1	Tomahawk	-	Sandia 152-40	Magnus	-	-	-	KAU	-	-	-	73	-	-
1965-S126	2438822.50	1965 Mar 3	Tomahawk	-	Sandia 152-39	Darthawk 6.5"	-	-	-	KAU	-	-	-	90	-	-
1965-S433	2438966.50	1965 Jul 25	Tomahawk	-	Sandia 152-15	Dart/EMP [or 1966?]	-	-	-	KAU	-	-	-	90	-	-
1966-S703	2439125.50	1966?	Tomahawk	-	Sandia 276-3	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1966-S704	2439125.50	1966?	Tomahawk	-	Sandia 276-4	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1966-S705	2439125.50	1966?	Tomahawk	-	Sandia 276-5	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1966-A51	2439220.50	1966 Apr 5	Tomahawk	-	Sandia 152-41	Despin	-	-	-	TTR	-	-	-	0?	-	-
1967-S603	2439490.50	1967?	Tomahawk	-	Sandia 276-6	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1967-S604	2439490.50	1967?	Tomahawk	-	Sandia 276-7	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1967-S605	2439490.50	1967?	Tomahawk	-	Sandia 276-8	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1967-S606	2439490.50	1967?	Tomahawk	-	Sandia 276-9	Dart/Parachute	-	-	-	TTR	-	-	-	90	-	-
1967-S358	2439698.50	1967 Jul 27	Tomahawk	-	Sandia 152-96	9" Ballistic	-	-	-	TTR	-	-	-	99	-	-
1967-M16	2439758.50	1967 Sep 25	Tomahawk	-	Sandia 152-61	JTF-8 Safeguard	-	-	-	JI	-	-	-	80	-	-
1967-S569	2439831.15	1967 Dec 6 1541	Tomahawk	-	Sandia 152-110	LRL BOX-13	-	-	-	TTR	HAD4	-	-	120	-	-
1968-S121	2439892.29	1968 Feb 5 1900	D-Region Tomahawk	-	NASA 12.08GT	-	-	-	-	WI	-	-	-	119	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-S269	2438192.50	1963 Jun 12	Tomahawk	-	Sandia 152-1	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1963-A100	2438210.50	1963 Jun 30	Tomahawk	-	IQSY Tomahawk	0.000	SAND?	SF	U	SAND/	Test	Alway	-	-
1964-S136	2438464.50	1964 Mar 10	Tomahawk	-	Sandia 152-5	0.000	SAND	SS	-	SAND/	Test/Aeron	FDS	-	-
1964-S484	2438663.50	1964 Sep 25	Tomahawk	-	IQSY Tomahawk	0.000	SAND?	SS	-	SAND/	Test	Alway	-	-
1964-S508	2438676.50	1964 Oct 8	Tomahawk	-	Sandia 152-37	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1964-S521	2438682.50	1964 Oct 14	Tomahawk	-	Sandia 152-38	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1964-A156	2438688.50	1964 Oct 20	Tomahawk	-	Sandia 152-69	0.000	SAND	SF	U	SAND/	Test/Aeron?	FDS	-	-
1965-S704	2438760.50	1965?	Tomahawk	-	Sandia 276-2	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1965-S41	2438780.50	1965 Jan 20	Tomahawk	-	Sandia 152-14	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1965-S70	2438793.50	1965 Feb 2	Tomahawk	-	Sandia 152-17	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1965-S72	2438794.50	1965 Feb 3	Tomahawk	-	Sandia 152-47	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1965-M08	2438820.50	1965 Mar 1	Tomahawk	-	Sandia 152-40	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1965-S126	2438822.50	1965 Mar 3	Tomahawk	-	Sandia 152-39	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1965-S433	2438966.50	1965 Jul 25	Tomahawk	-	Sandia 152-15	0.000	SAND	SS	-	SAND/	Test	FDS	-	-
1966-S703	2439125.50	1966?	Tomahawk	-	Sandia 276-3	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1966-S704	2439125.50	1966?	Tomahawk	-	Sandia 276-4	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1966-S705	2439125.50	1966?	Tomahawk	-	Sandia 276-5	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1966-A51	2439220.50	1966 Apr 5	Tomahawk	-	Sandia 152-41	0.000	SAND	SF	U	SAND/	Test	FDS	-	-
1967-S603	2439490.50	1967?	Tomahawk	-	Sandia 276-6	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1967-S604	2439490.50	1967?	Tomahawk	-	Sandia 276-7	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1967-S605	2439490.50	1967?	Tomahawk	-	Sandia 276-8	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1967-S606	2439490.50	1967?	Tomahawk	-	Sandia 276-9	0.000	SAND	SS	-	SAND/Pepper	Parachute test	JScR6,495	-	-
1967-S358	2439698.50	1967 Jul 27	Tomahawk	-	Sandia 152-96	0.000	SAND	SS	-	SAND/	Ionos	FDS	-	-
1967-M16	2439758.50	1967 Sep 25	Tomahawk	-	Sandia 152-61	0.000	SAND	SS	-	SAND/	Test/Aeron?	FDS	-	-
1967-S569	2439831.15	1967 Dec 6 1541	Tomahawk	-	Sandia 152-110	0.000	SAND	SS	-	LRL/	XR Astron	FDS	UCRL-50587	-
1968-S121	2439892.29	1968 Feb 5 1900	D-Region Tomahawk	-	NASA 12.08GT	0.000	GSFC	SS	-	GSFC/Sorgnit	Test	Alway	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-S191	2444876.50	1981 Sep 29	Topol'	-	45519-201?	15Zh58 B-1	Ejection test	-	-	NIIP-53	LC167	-	-	1?	-	-
1981-A38	2444907.50	1981 Oct 30	Topol'	-	45519-202?	15Zh58 B-2	Ejection test	-	-	NIIP-53	-	-	-	1?	-	-
1982-A43	2445206.50	1982 Aug 25	Topol'	-	45519-203?	15Zh58 B-3	Ejection test	-	-	NIIP-53	-	-	-	1?	-	-
1982-S183	2445269.50	1982 Oct 27	Topol'	-	45519-204	15Zh58 LKI-1-1	MGCh 15F581/AA88	-	-	GTsP-4	-	-	-	500?	-	BALKH
1983-S57	2445383.77	1983 Feb 18 0630?	Topol'	-	45519-205-1L	15Zh58 LKI-1-2	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1983-S94	2445459.60	1983 May 5 0220	Topol'	-	45524-401-2L	15Zh58 LKI-2	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1983-S265	2445485.65	1983 May 31 0340	Topol'	-	45579-207-3L	15Zh58 LKI-3	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1983-A56	2445556.62	1983 Aug 10 0250	Topol'	-	45524-402-4L	15Zh58 LKI-4	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	0?	-	(Kura)
1983-S106	2445632.69	1983 Oct 25 0430	Topol'	-	45524-403-5L	15Zh58 LKI-5	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S220	2445750.43	1984 Feb 19 2215	Topol'	-	45524-404-6L	15Zh58 LKI-6	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S221	2445786.38	1984 Mar 26 2110	Topol'	-	45584-406-8L	15Zh58 LKI-7	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S222	2445814.12	1984 Apr 23 1500	Topol'	-	45584-407-9L	15Zh58 LKI-8	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S223	2445844.12	1984 May 23 1500	Topol'	-	45584-405-7L	15Zh58 LKI-9	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Khatanga
1984-S224	2445908.08	1984 Jul 26 1400	Topol'	-	45584-409-10L	15Zh58 LKI-10	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1984-S225	2445954.06	1984 Sep 10 1330	Topol'	-	45584-410-11L	15Zh58 LKI-11	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	20?	-	(Kura)
1984-S226	2445976.22	1984 Oct 2 1720	Topol'	-	45542-221-12L	15Zh58 LKI-12	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	20?	-	(Kura)
1984-S227	2446025.25	1984 Nov 20 1800	Topol'	-	64516-214-37	15Zh58 K-1 Kontrol'niy	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Pacific
1984-S228	2446040.58	1984 Dec 6 0155	Topol'	-	45542-222-13L	15Zh58 LKI-13	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Pacific
1984-S249	2446040.68	1984 Dec 6 0425	Topol'	-	45542-223-14L	15Zh58 LKI-14	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Pacific
1985-A20	2446076.50	1985 Jan 11	Skorost'	-	-	15Zh66 LKI-1	3 BB	-	-	GTsP-4	-	-	-	1?	-	(BALKH)
1985-S254	2446095.35	1985 Jan 29 2030	Topol'	-	15L	15Zh58 LKI-15	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	-
1985-S261	2446118.30	1985 Feb 21 1905	Topol'	-	64536-224-33	15Zh58 K-2	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S255	2446178.19	1985 Apr 22 1630	Topol'	-	64536-214-45	15Zh58 K-3	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S256	2446231.21	1985 Jun 14 1700	Topol'	-	64551-421-52	15Zh58 K-4	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S257	2446284.15	1985 Aug 6 1531	Topol'	-	64551-431-55	15Zh58 K-5	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S258	2446306.10	1985 Aug 28 1420	Topol'	-	64551-431-58	15Zh58 K-6	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S259	2446343.33	1985 Oct 4 2000	Topol'	-	64581-431-66	15Zh58 K-7	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S260	2446363.67	1985 Oct 25 0400	Topol'	-	64581-441-52	15Zh58 K-8	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1985-S147	2446405.99	1985 Dec 6 1147	Topol'	-	64581-451-55	15Zh58 K-9	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S168	2446539.08	1986 Apr 18 1350	Topol'	-	-	15Zh58 K-10	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S169	2446693.43	1986 Sep 19 2220	Topol'	-	-	15Zh58 K-11	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S171	2446764.19	1986 Nov 29 1630	Topol'	-	-	15Zh58 K-12	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1986-S170	2446790.10	1986 Dec 25 1420	Topol'	-	-	15Zh58 K-13	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S208	2446837.38	1987 Feb 10 2100	Topol'	-	-	15Zh58 K-14	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S207	2446941.34	1987 May 25 2010	Topol'	-	-	15Zh58 K-15	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S209	2446976.63	1987 Jun 30 0310	Topol'	-	-	15Zh58 K-16	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S212	2446990.66	1987 Jul 14 0352	Topol'	-	-	15Zh58 UBP-1	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S210	2447007.62	1987 Jul 31 0300	Topol'	-	-	15Zh58 K-17	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S211	2447152.97	1987 Dec 23 1110	Topol'	-	-	15Zh58 K-18	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1987-S213	2447153.26	1987 Dec 23 1815	Topol'	-	16L	15Zh58 LKI-16	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1988-S173	2447281.14	1988 Apr 29 1522	Topol'	-	-	15Zh58 UBP-2	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1988-S174	2447379.24	1988 Aug 5 1744	Topol'	-	-	15Zh58 UBP-3	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1988-S171	2447419.03	1988 Sep 14 1249	Topol'	-	-	15Zh58 K-19	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1988-S175	2447454.92	1988 Oct 20 1000	Topol'	-	-	15Zh58 UBP-4	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1988-S172	2447504.87	1988 Dec 9 0857	Topol'	-	-	15Zh58 K-20	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1989-S124	2447565.10	1989 Feb 7 1425	Topol'	-	-	15Zh58 UBP-5	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1989-S125	2447607.16	1989 Mar 21 1545	Topol'	-	-	15Zh58 UBP-6	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1989-S126	2447693.11	1989 Jun 15 1445	Topol'	-	-	15Zh58 K-21	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1989-S127	2447790.07	1989 Sep 20 1345	Topol'	-	-	15Zh58 K-22	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1989-S130	2447825.89	1989 Oct 26 0927	Topol'	-	-	15Zh58 K-23	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S75	2447979.82	1990 Mar 29 0745	Topol'	-	-	15Zh58 UBP-7	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S96	2448033.31	1990 May 21 1920	Topol'	-	-	15Zh58 UBP-8	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S195	2448035.80	1990 May 24 0710	Topol'	-	-	15Zh58 K-24	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S112	2448104.00	1990 Jul 31 1155	Topol'	-	-	15Zh58 UBP-9	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S115	2448106.99	1990 Aug 3 1150	Perimetr-RTs	-	1L	15Zh75 LKI-1	15Yu75 No. 1L	Sirena	-	NIIP-53	LC169	-	-	1000?	-	Kura
1990-S120	2448119.81	1990 Aug 16 0720	Topol'	-	-	15Zh58 K-25	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S141	2448182.08	1990 Oct 17 1350	Perimetr-RTs	-	2L	15Zh75 LKI-2	15Yu75 No. 2L	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S147	2448197.10	1990 Nov 1 1430	Topol'	-	-	15Zh58 UBP-10	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S160	2448221.87	1990 Nov 26 0859	Perimetr-RTs	-	3L	15Zh75 LKI-3	15Yu75 No. 3L	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S173	2448251.11	1990 Dec 25 1440	Perimetr-RTs	-	4L	15Zh75 LKI-4	15Yu75 No. 4L	-	-	NIIP-53	-	-	-	1000?	-	Kura
1990-S174	2448251.16	1990 Dec 25 1549	Topol'	-	-	15Zh58 K-26	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1991-S62	2448294.84	1991 Feb 7 0815	Topol'	?	-	15Zh58 UBP-11	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1991-S92	2448352.09	1991 Apr 5 1405	Topol'	?	-	15Zh58 UBP-12	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1991-S116	2448433.21	1991 Jun 25 1700	Topol'	-	-	15Zh58 K-27	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1991-S137	2448488.45	1991 Aug 19 2255	Topol'	-	-	15Zh58 K-28	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1991-S159	2448532.16	1991 Oct 2 1550	Topol'	-	-	15Zh58 K-29	MGCh 15F581/AA88	-	-	NIIP-53	-	-	-	1000?	-	Kura
1993-S16	2449044.07	1993 Feb 25 1340	Topol'	-	-	15Zh58 K-30	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1993-014	2449072.05	1993 Mar 25 1315:27	Start-1	-	-	EKA	EKA-1	-	-	GNIIP	LC158	-	-	983	-	-
1993-S49	2449191.85	1993 Jul 23 0824	Topol'	-	-	15Zh58 K-31	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1994-S42	2449525.85	1994 Jun 22 0822	Topol'	-	-	15Zh58 UBP-13	MGCh 15F581/AA88	-	-	GIP-53	-	-	-	1000?	-	Kura
1994-S69	2449619.14	1994 Sep 23 1515	Topol'	-	-	15Zh58 K-32	MGCh 15F581/AA88	-	-	GIP-53	-	-	-	1000?	-	Kura
1994-S82	2449666.81	1994 Nov 10 0730	Topol'	-	-	15Zh58 UBP-14	MGCh 15F581/AA88	-	-	GIP-53	-	-	-	1000?	-	Kura
1994-S93	2449706.87	1994 Dec 20 0850	Topol'-M	-	1L	15Zh65 LKI-1	MGCh	-	-	GIP-53	Yu-1	-	-	1000?	-	Kura
1995-F02	2449804.92	1995 Mar 28 1000	Start	-	-	Techsat/Unamsat	Techsat 1	-	-	GNIIP	LC158	-	-	670?	-	-
1995-S31	2449821.98	1995 Apr 14 1130	Topol'	-	-	15Zh58 UBP-15	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1995-S62	2449965.83	1995 Sep 5 0750	Topol'-M	-	2L	15Zh65 LKI-2	MGCh	-	-	GNIIP	Yu-1	-	-	1000?	-	Kura
1995-S66	2450000.80	1995 Oct 10 0711	Topol'	-	-	15Zh58 UBP-16	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1995-S90	2450031.83	1995 Nov 10 0755	Topol'	-	-	15Zh58 UBP-17	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1996-S16	2450190.79	1996 Apr 17 0700	Topol'	-	-	15Zh58 UBP-18	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1996-S46	2450289.91	1996 Jul 25 0945	Topol'-M	-	3L	15Zh65 LKI-3	MGCh	-	-	GNIIP	-	-	-	1000?	-	Kura
1996-S60	2450359.91	1996 Oct 3 0945	Topol'	-	-	15Zh58 UBP-19	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1996-S69	2450392.91	1996 Nov 5 0950	Topol'	-	52	15Zh58 UBP-20	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1997-010	2450511.58	1997 Mar 4 0200:02	Start-1.2	-	-	Zeya	Mozhaets 2	-	-	GIK-2	LC5	-	-	480	-	-
1997-S49	2450638.02	1997 Jul 8 1225	Topol'-M	-	4L	15Zh65 LKI-4	MGCh	-	-	GNIIP	Yu-1?	-	-	1000?	-	Kura
1997-S65	2450724.80	1997 Oct 3 0707	Topol'	-	-	15Zh58 UBP-21	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
1997-085	2450807.06	1997 Dec 24 1332:52	Start-1	-	-	EarlyBird	EarlyBird	-	-	GIK-2	LC5	-	-	498?	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1998-S52	2451072.97	1998 Sep 16 1110:04	Topol'	-	64536-21-443	15Zh58 UBP-22	MGCh 15F581/AA88	-	-	GNIIP	LC169	-	-	1000?	-	Kura
1998-A03	2451109.04	1998 Oct 22 1252:58	Topol'-M	-	00354-59-101(5L)	15Zh65 LKI-5	MGCh	-	-	GNIIP	Yu-1	-	-	40?	-	Kura
1998-S67	2451155.98	1998 Dec 8 1125	Topol'-M	-	00354-25-101(6L)	15Zh65 LKI-6	MGCh	-	-	GNIIP	Yu-1	-	-	1000?	-	Kura
1999-S34	2451333.10	1999 Jun 3 1420	Topol'-M	-	00354-33-101(7L)	15Zh65 LKI-7	MGCh	-	-	GNIIP	Yu-1	-	-	1000?	-	Kura
1999-S58	2451424.99	1999 Sep 3 1144	Topol'-M	-	00354-33-102(8L)	15Zh65 LKI-8	MGCh	-	-	GNIIP	Yu-1	-	-	1000?	-	Kura
1999-S65	2451452.82	1999 Oct 1 0742:02	Topol'	-	64536-21-447	15Zh58 UBP-23 (57)	MGCh 15F581/AA88	-	-	GNIIP	LC169	-	-	1000?	-	Kura
1999-S79	2451526.84	1999 Dec 14 0805	Topol'-M	-	00354-43-103(9L)	15Zh65 LKI-9	MGCh	-	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2000-S05	2451583.92	2000 Feb 9 0959	Topol'-M	-	10L	15Zh65 LKI-10	MGCh	-	-	GNIIP	LC163/18	-	-	1000?	-	Kura
2000-S54	2451813.96	2000 Sep 26 1100	Topol'-M	-	00354-24-211(11L)	15Zh65 K-1	MGCh	-	-	GNIIP	LC163/18	-	-	1000?	-	Kura
2000-S55	2451814.91	2000 Sep 27 0950	Topol'-M 15Zh55	-	00354-43-104(1L)	15Zh55 LKI-1	MGCh	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2000-S58	2451828.90	2000 Oct 11 0930	Topol'	-	64536-21-444	15Zh58 UBP-24 (58)	MGCh 15F581/AA88	-	-	GNIIP	LC169	-	-	1000?	-	Kura
2000-079	2451884.02	2000 Dec 5 1232	Start-1	-	64516-21-434	EROS A1	EROS A1	-	-	GIK-2	LC5	-	-	556	-	-
2001-S10	2451956.95	2001 Feb 16 1043	Topol'	-	64536-22-434	15Zh58 UBP-25	MGCh 15F581/AA88	-	-	GNIIP	LC169	-	-	1000?	-	Kura
2001-007	2451960.87	2001 Feb 20 0848:27	Start-1	-	168	Odin	Odin	-	-	GIK-2	LC5	-	-	621	-	-
2001-S45	2452185.88	2001 Oct 3 0900	Topol'	-	-	15Zh58 UBP-26	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
2001-S49	2452215.18	2001 Nov 1 1620	Topol'	-	-	15Zh58 UBP-27?	MRV Test	-	-	GNIIP	-	-	-	1000?	-	Kura
2001-S72	2452268.50	2001 Dec 25	Topol'-E	-	-	15Zh58E GCh-0	BO	-	-	GNIIP	-	-	-	1000?	-	Kura
2002-S39	2452431.97	2002 Jun 6 1120	Topol'-M 15Zh55	-	-	15Zh55 LKI-2	MGCh	-	-	GNIIP	-	-	-	1000?	-	Kura
2002-S64	2452559.91	2002 Oct 12 0952	Topol'	-	-	15Zh58 UBP-28	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
2003-S11	2452725.89	2003 Mar 27 0927:30	Topol'	-	-	15Zh58 UBP-29	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	-	-	-	1000?	-	Kura
2003-A26	2452984.83	2003 Dec 11 0800	Bulava	-	-	3M30 Popup test II-1	-	-	TK-208	BLA	-	-	-	1?	-	-
2004-S08	2453053.94	2004 Feb 18 1028	Topol'	-	-	15Zh58 UBP-30	MGCh 15F581/AA88	Bezopasnost'-2004	-	GNIIP	-	-	-	1000?	-	Kura
2004-S15	2453116.23	2004 Apr 20 1730	Topol'-M 15Zh55	-	-	15Zh55 LKI-3	MGCh	-	-	GNIIP	-	-	-	1000?	-	Pacific
2004-A11	2453271.50	2004 Sep 23	Bulava	-	-	3M30 Popup test II-2	-	-	TK-208	BLA	-	-	-	1?	-	-
2004-S64	2453311.91	2004 Nov 2 0952	Topol'	-	-	15Zh58 UBP-31	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
2004-S73	2453363.90	2004 Dec 24 0939	Topol'-M 15Zh55	-	00354-416-30(3L)	15Zh55 LKI-4	MGCh	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2005-S39	2453641.06	2005 Sep 27 1322	Bulava	-	R-30 01	3M30 LKI-1	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1000?	-	Kura
2005-S47	2453676.22	2005 Nov 1 1710:13	Topol'-E	-	645-7351-128	15Zh58E GCh-1	3 x 3G32 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkhash
2005-S55	2453703.82	2005 Nov 29 0744:04	Topol'	-	645-8145-161	15Zh58 UBP-32	MGCh 15F581/AA88	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2005-S58	2453725.72	2005 Dec 21 0519	Bulava	-	R-30 02	3M30 LKI-2	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1000	-	Kura
2006-014	2453851.20	2006 Apr 25 1647:16	Start-1	-	645-3621-441	EROS B	EROS B	-	-	GIK-2	LC5	-	-	560	-	-
2006-S45	2453950.90	2006 Aug 3 0938:03	Topol'	-	645-8834-365	15Zh58 UBP-33	MGCh 15F581/AA88	-	-	GNIIP	-	-	-	1000?	-	Kura
2006-A05	2453986.16	2006 Sep 7 1550	Bulava	-	R-30 03	3M30 LKI-3	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1?	-	(Kura)
2006-S56	2454034.05	2006 Oct 25 1305	Bulava	-	R-30 04	3M30 LKI-4	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	10?	-	Kura
2006-A07	2454093.50	2006 Dec 24	Bulava	-	R-30 05	3M30 LKI-5	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	100?	-	Kura
2007-S23	2454249.93	2007 May 29 1020	Yars	-	1L	15Zh55M LKI-1	3 x 3G32 BB	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2007-S41	2454280.14	2007 Jun 28 1525:00	Bulava	-	6L	3M30 LKI-6	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1000?	-	Kura
2007-S44	2454391.72	2007 Oct 18 0510:03	Topol'	-	645-8834-364	15Zh58 UBP-34	MGCh 15F581/AA88	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2007-A09	2454414.50	2007 Nov 10	Bulava	-	R-30 07	3M30 LKI-7	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1?	-	(Kura)
2007-S66	2454443.11	2007 Dec 8 1443	Topol'-E	-	-	15Zh58E GCh-2	3 x 3G32 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkhash
2007-S67	2454460.05	2007 Dec 25 1310	Yars	-	2L	15Zh55M LKI-2	3 x 3G32 BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2008-S42	2454706.94	2008 Aug 28 1035:03	Topol'-E	-	354-3512-248	15Zh58E LKI-P1	?/AA108-01	-	-	GNIIP	-	-	-	1000?	-	Kura
2008-S43	2454728.11	2008 Sep 18 1445:00	Bulava	-	R-30 08	3M30 LKI-8	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1000?	-	Kura
2008-S47	2454751.81	2008 Oct 12 0724:30	Topol'	-	-	15Zh58Gr LKI-P2	?/AA108-01	Stabil'nost-2008	-	GNIIP	LC167	-	-	1000?	-	Kura
2008-S68	2454797.06	2008 Nov 26 1319:47	Yars	-	-	15Zh55M LKI-3	6 x BB	Road-mobile	-	GNIIP	-	-	-	1000?	-	Kura
2008-S72	2454799.09	2008 Nov 28 1405	Bulava	-	R-30 09	3M30 LKI-9	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	1000?	-	Kura
2008-S74	2454823.62	2008 Dec 23 0250	Bulava	-	R-30 10	3M30 LKI-10	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	100?	-	Kura
2009-S20	2454931.84	2009 Apr 10 0809:56	Topol'	-	354-3511-253	15Zh58 UBP-35	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC167	-	-	1000?	-	Kura
2009-A05	2455027.50	2009 Jul 15	Bulava	-	R-30 11 3M30	3M30 LKI-11	3 x 3G32 BB (3G30)	-	TK-208	BELA	-	-	-	10?	-	(Kura)
2009-S65	2455174.78	2009 Dec 9 0645	Bulava	-	R-30 12	3M30 LKI-12	3 x 3G32 BB	-	TK-208	BELA	-	-	-	500?	-	(Kura?)
2009-S66	2455176.02	2009 Dec 10 1235	Topol'-E	-	-	15Zh58E GCh-3	3 x 3G32 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkhash
2010-S59	2455476.80	2010 Oct 7 0715	Bulava	-	R-30 13	3M30 LKI-13	3 x 3G32 BB	-	TK-208	BELA	-	-	-	1000?	-	Kura
2010-S62	2455497.92	2010 Oct 28 0959	Topol'	-	-	15Zh58 UBP-36	MGCh 15F581/AA88	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2010-S65	2455498.55	2010 Oct 29 0110	Bulava	-	R-30 14	3M30 LKI-14	3 x 3G32 BB	-	TK-208	BELA	-	-	-	1000?	-	Kura
2010-S68	2455536.30	2010 Dec 5 1911	Topol'-E	-	-	15Zh58E GCh-4	3 x 3G32 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2011-S27	2455741.00	2011 Jun 28 1155	Bulava	-	R-30 15	3M30 LKI-15	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2011-S37	2455800.64	2011 Aug 27 0320	Bulava	-	R-30 16	3M30 LKI-16	6 BB	-	K-535	BELA	-	-	-	1000?	-	N Pacific
2011-S40	2455807.91	2011 Sep 3 0946	Topol'	-	146	15Zh58 UBP-37	?/AA108-01	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2011-A25	2455831.80	2011 Sep 27 0708	Rubezh	-	2L	15Zh67 LKI-1	6 BB	-	-	GNIIP	LC167	-	-	0	-	-
2011-S52	2455862.65	2011 Oct 28 0340	Bulava	-	-	3M30 LKI-17	-	-	K-535	BELA	-	-	-	1000?	-	Kura
2011-S53	2455868.78	2011 Nov 3 0645	Topol'	-	354-3511-241	15Zh58 UBP-38	MGCh 15F581/AA88	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2011-S66	2455919.16	2011 Dec 23 1550	Bulava	-	-	3M30 LKI-18	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2011-S67	2455919.16	2011 Dec 23 1550	Bulava	-	-	3M30 LKI-19	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2012-S22	2456070.76	2012 May 23 0615:00	Rubezh	-	2TL	15Zh67 LKI-2	6 BB	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2012-S28	2456086.24	2012 Jun 7 1739	Topol'-E	-	-	15Zh58E GCh-5	3 x 3G32 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2012-S59	2456219.88	2012 Oct 19 0912	Topol'	-	110	15Zh58 UBP-39	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC169	-	-	1000?	-	Kura
2012-S64	2456225.27	2012 Oct 24 1828:52	Rubezh	-	-	15Zh67 LKI-3	6 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2013-S39	2456450.24	2013 Jun 6 1745	Rubezh	-	-	15Zh67 LKI-4	6 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2013-S62	2456541.72	2013 Sep 6 0520	Bulava	-	-	3M30 UBP	6 BB	-	K-550	BELA	-	-	-	100?	-	(Kura)
2013-S88	2456576.07	2013 Oct 10 1339	Topol'-E	-	-	15Zh58E GCh-6	3 BB, RV Test 1	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2013-S93	2456595.91	2013 Oct 30 0955	Topol'	-	-	15Zh58 UBP-40	MGCh 15F581/AA88	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2013-S112	2456645.06	2013 Dec 18 1331	Rubezh	-	-	15Zh67 LKI-5	6 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2013-S104	2456650.79	2013 Dec 24 0700	Yars 15Zh65M	-	-	15Zh65M LKI-1	6 BB	Yars Silo	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2013-S105	2456654.23	2013 Dec 27 1730	Topol'-E	-	-	15Zh58E GCh-7	2BB, RV Test 2	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2014-S07	2456721.26	2014 Mar 4 1810	Topol'-E	-	Topol'-E	15Zh58E GCh-8	3BB, RV Test 3	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2014-S17	2456761.78	2014 Apr 14 0640	Yars	-	-	15Zh55M K-1	RV x 4?	-	-	GNIIP	-	-	-	1000?	-	Kura
2014-S21	2456785.90	2014 May 8 0939	Topol'	-	-	15Zh58 UBP-41	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC167	-	-	1000?	-	Kura
2014-S25	2456798.21	2014 May 20 1708	Topol'-E	-	Topol'-E	15Zh58E GCh-9	2 BB, RV Test 4	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2014-S50	2456910.67	2014 Sep 10 0405	Bulava	-	-	3M30 UBP	6 BB	-	K-551	BELA	-	-	-	1000?	-	Kura
2014-S66	2456960.23	2014 Oct 29 1727	Bulava	-	-	3M30 UBP	6 BB	-	K-535	BLA	-	-	-	1000?	-	Kura
2014-S67	2456962.76	2014 Nov 1 0620	Topol'-M	-	-	15Zh65 UBP-1	MGCh	Zaryad'e-2-65	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2014-A43	2456973.28	2014 Nov 11 1846:18	Topol'-E	-	Topol'-E	15Zh58E GCh-10	RV Test 5?	-	-	GTsMP-4	LC107	-	-	10?	-	(Balkash)
2014-S74	2456990.17	2014 Nov 28 1609	Bulava	-	-	3M30 UBP	6 BB	-	K-550	BLA	-	-	-	1000?	-	Kura
2014-S82	2457017.83	2014 Dec 26 0802	Yars	-	Yars-S	15Zh55M1 K-2	3 BB	Mobile Yars	-	GNIIP	-	-	-	1000?	-	Kura
2015-S20	2457099.30	2015 Mar 17 1914:59	Rubezh	-	-	15Zh67 LKI-6	6 BB	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2015-S45	2457257.13	2015 Aug 22 1513	Topol'-E	-	Topol'-E	15Zh58E GCh-11	RV Test 6?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2015-S57	2457323.98	2015 Oct 28 1130	Yars 15Zh65M	-	Yars-S	15Zh65M1 K-1	3 BB	-	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2015-S60	2457325.93	2015 Oct 30 1024	Topol'	-	-	15Zh58 UBP-42	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC167	-	-	1000?	-	Kura
2015-S73	2457341.22	2015 Nov 14 1716:00	Bulava	-	-	3M30 K	6 BB	-	K-551	BLA	-	-	-	40?	-	Kura
2015-S74	2457341.22	2015 Nov 14 1716:10	Bulava	-	-	3M30 K	6 BB	-	K-551	BLA	-	-	-	1000?	-	Kura
2015-S75	2457344.01	2015 Nov 17 1212:13	Topol'-E	-	Topol'-E	15Zh58E GCh-12	RV Test 7?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2015-S94	2457381.25	2015 Dec 24 1755	Topol'-E	-	Topol'-E	15Zh58E GCh-13	RV Test 8?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2016-S56	2457625.87	2016 Aug 25 0854	Yars-M	15Zh80	-	15Zh80 LKI-1	2 BB	Mobile Yars-M	-	GNIIP	LC167	-	-	100?	-	(Kura)
2016-S57	2457640.92	2016 Sep 9 1010:05	Topol'-E	-	-	15Zh58E GCh-P1?	RV Test P1	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2016-S59	2457659.10	2016 Sep 27 1420:00	Bulava	-	-	3M30 UBP	6BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2016-A40	2457659.10	2016 Sep 27 1420:10	Bulava	-	-	3M30 UBP	6BB	-	K-535	BELA	-	-	-	10?	-	(Kura)
2016-S63	2457673.95	2016 Oct 12 1046:04	Topol'	-	-	15Zh58 UBP-44	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC167	-	-	1000?	-	Kura
2016-A107	2457693.50	2016 Nov 1	Yars	-	-	15Zh83(IRS)	-	Silo eject test	-	GNIIP	-	-	-	1	-	(Kura)
2016-S80	2457717.82	2016 Nov 25 0735	Perimetr-RTs	-	-	15Yu75 UBP	Special GCh	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2017-S01	2457769.83	2017 Jan 16 0752:00	Topol'-M	-	-	15Zh65 UBP-2	MGCh	Zaryad'e-2-65	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2017-S49	2457931.12	2017 Jun 26 1459	Bulava	-	-	3M30 UBP	6 BB	-	K-535	BLA	-	-	-	1000?	-	Kura
2017-S77	2458008.84	2017 Sep 12 0810	Yars-M	15Zh81	-	15Zh81 LKI-1	2 BB	-	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2017-S80	2458016.83	2017 Sep 20 0750	Yars	-	-	15Zh55M K-3?	6 BB	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2017-S85	2458023.15	2017 Sep 26 1530	Topol'-E	-	Topol'-E	15Zh58E GCh-14?	RV Test 9?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2017-S90	2458053.13	2017 Oct 26 1503:14	Topol'	-	-	15Zh58 UBP-45	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	LC167	-	-	1000?	-	Kura
2017-S106	2458113.64	2017 Dec 26 0325	Topol'-E	-	Topol'-E	15Zh58E GCh-15?	RV Test 10?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2018-S28	2458261.13	2018 May 22 1513:00?	Bulava	-	-	-	6 BB	-	K-535	BELA	-	-	-	100?	-	Kura
2018-S29	2458261.13	2018 May 22 1513:07?	Bulava	-	-	-	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2018-S30	2458261.13	2018 May 22 1513:14?	Bulava	-	-	-	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2018-S31	2458261.13	2018 May 22 1513:21?	Bulava	-	-	3M30 UBP	6 BB	-	K-535	BELA	-	-	-	1000?	-	Kura
2018-S84	2458288.77	2018 Jun 19 0625	Yars-M	15Zh80	-	15Zh80 LKI-2	2 BB	-	-	GNIIP	LC167	-	-	1000?	-	Kura
2018-A192	2458304.29	2018 Jul 4 1900:05	Topol'-E	-	Topol'-E	15Zh58E GCh-16?	RV Test 11?	-	-	GTsMP-4	LC107	-	-	40?	-	Balkash
2018-S87	2458408.88	2018 Oct 17 0900	Topol'-M	-	-	15Zh65 UBP-3	MGCh	Zaryad'e-2-65	-	GNIIP	Yu-2	-	-	80?	-	(Kura)
2018-S88	2458409.85	2018 Oct 18 0830	Topol'	-	-	15Zh58 UBP-46	MGCh 15F581/AA88	Zaryad'e-2-58	-	GNIIP	-	-	-	1000?	-	Kura
2018-A191	2458459.24	2018 Dec 6 1740	Topol'-E	-	Topol'-E	15Zh58E GCh-17?	RV Test 12?	-	-	GTsMP-4	LC107	-	-	20?	-	Balkash
2019-S07	2458520.86	2019 Feb 6 0831:26	Yars-M	15Zh80	-	15Zh80 LKI-3	2 BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2019-S35	2458690.50	2019 Jul 26	Topol'-E	-	Topol'-E	15Zh58E GCh-18?	RV Test 13?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2019-S51	2458719.50	2019 Aug 24	Bulava	-	-	3M30 UBP	6 BB	-	K-535	BLA	-	-	-	1000?	-	Kura
2019-S60	2458756.50	2019 Sep 30	Topol'-M	-	-	15Zh65 UBP-4?	MGCh?	-	-	GNIIP	Yu-2	-	-	1000?	-	Kura
2019-S61	2458773.50	2019 Oct 17?	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2019-S67	2458787.12	2019 Oct 30 1457	Bulava	-	-	3M30 UBP	6 BB	-	K-549	BELA	-	-	-	1000?	5500	Kura
2019-S75	2458815.50	2019 Nov 28	Topol'-E	-	-	15Zh58E GCh-19?	RV Test?	-	-	GTsMP-4	LC107	-	-	1000?	-	Balkash
2020-S45	2459192.50	2020 Dec 9	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2020-S48	2459195.50	2020 Dec 12	Bulava	-	-	3M30 UBP	4 BB	-	K-551	OMLA	-	-	-	1000?	-	Chiza
2020-S49	2459195.50	2020 Dec 12	Bulava	-	-	3M30 UBP	4 BB	-	K-551	OMLA	-	-	-	1000?	-	Chiza
2020-S50	2459195.50	2020 Dec 12	Bulava	-	-	3M30 UBP	4 BB	-	K-551	OMLA	-	-	-	1000?	-	Chiza
2020-S51	2459195.50	2020 Dec 12	Bulava	-	-	3M30 UBP	4 BB	-	K-551	OMLA	-	-	-	1000?	-	Chiza
2021-S38	2459376.50	2021 Jun 11?	Topol'	-	15P182 Osina?	Sirena-M?	Perimeter?	-	-	GNIIP	-	-	-	1000?	-	Kura
2021-S91	2459508.50	2021 Oct 21	Bulava	-	-	3M30 UBP	4 BB	-	K-552	BELA	-	-	-	1000?	-	Kura
2022-S15	2459629.50	2022 Feb 19	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2022-S136	2459730.50	2022 Jun?	Yars	-	-	Sirena-M?	Perimeter?	-	-	GNIIP	-	-	-	1000?	-	Kura
2022-S119	2459878.50	2022 Oct 26	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2022-S120	2459886.50	2022 Nov 3	Bulava	-	-	3M30 UBP	4 BB	-	K-553	BELA	-	-	-	1000?	-	Kura
2023-S16	2460045.50	2023 Apr 11	Yars-E	-	-	15Zh55ME	BB	-	-	GTsMP-4	-	-	-	1000?	-	Balkash
2023-S57	2460242.50	2023 Oct 25	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2023-S60	2460252.50	2023 Nov 4?	Bulava	-	-	3M30 UBP	4 BB	-	K-554	BELA	-	-	-	1000?	-	Kura
2024-S05	2460370.50	2024 Mar 1	Yars	-	-	15Zh55M?	BB	-	-	GNIIP	-	-	-	1000?	-	Kura
2024-S16	2460413.17	2024 Apr 12 1600?	Yars-E	-	-	15Zh55ME	BB?	-	-	GTsMP-4	-	-	-	1000?	-	Balkash
2024-S74	2460635.62	2024 Nov 21 0300?	Oreshnik	-	-	Not a 15Zh67 Rubezh?	6 BB?	-	-	GTsMP-4	-	-	-	500?	800	Dnipro

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-S191	2444876.50	1981 Sep 29	Topol'	-	45519-201?	0.000	RVSN	MS	-	-	Test	NK0709-36	-	-
1981-A38	2444907.50	1981 Oct 30	Topol'	-	45519-202?	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1982-A43	2445206.50	1982 Aug 25	Topol'	-	45519-203?	0.000	RVSN	MS	-	-	Test	RPCB	-	-
1982-S183	2445269.50	1982 Oct 27	Topol'	-	45519-204	0.000	RVSN	MS	-	-	Test	BMLX	-	-
1983-S57	2445383.77	1983 Feb 18 0630?	Topol'	-	45519-205-1L	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S94	2445459.60	1983 May 5 0220	Topol'	-	45524-401-2L	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-S265	2445485.65	1983 May 31 0340	Topol'	-	45579-207-3L	0.000	RVSN	MS	-	-	Test	RML	-	-
1983-A56	2445556.62	1983 Aug 10 0250	Topol'	-	45524-402-4L	0.000	RVSN	MF	U	-	Test	RML	-	-
1983-S106	2445632.69	1983 Oct 25 0430	Topol'	-	45524-403-5L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S220	2445750.43	1984 Feb 19 2215	Topol'	-	45524-404-6L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S221	2445786.38	1984 Mar 26 2110	Topol'	-	45584-406-8L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S222	2445814.12	1984 Apr 23 1500	Topol'	-	45584-407-9L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S223	2445844.12	1984 May 23 1500	Topol'	-	45584-405-7L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S224	2445908.08	1984 Jul 26 1400	Topol'	-	45584-409-10L	0.000	RVSN	MS	-	-	Test	RML	-	-
1984-S225	2445954.06	1984 Sep 10 1330	Topol'	-	45584-410-11L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S226	2445976.22	1984 Oct 2 1720	Topol'	-	45542-221-12L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S227	2446025.25	1984 Nov 20 1800	Topol'	-	64516-214-37	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S228	2446040.58	1984 Dec 6 0155	Topol'	-	45542-222-13L	0.000	RVSN	MF	U	-	Test	RML	-	-
1984-S249	2446040.68	1984 Dec 6 0425	Topol'	-	45542-223-14L	0.000	RVSN	MF	U	-	Test	RML	-	-
1985-A20	2446076.50	1985 Jan 11	Skorost'	-	-	0.000	RVSN	MF	U	-	Test	KY60	-	KY60 says Mar 1
1985-S254	2446095.35	1985 Jan 29 2030	Topol'	-	15L	0.000	RVSN	MF	U	-	Test	RML	-	-
1985-S261	2446118.30	1985 Feb 21 1905	Topol'	-	64536-224-33	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S255	2446178.19	1985 Apr 22 1630	Topol'	-	64536-214-45	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S256	2446231.21	1985 Jun 14 1700	Topol'	-	64551-421-52	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S257	2446284.15	1985 Aug 6 1531	Topol'	-	64551-431-55	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S258	2446306.10	1985 Aug 28 1420	Topol'	-	64551-431-58	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S259	2446343.33	1985 Oct 4 2000	Topol'	-	64581-431-66	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S260	2446363.67	1985 Oct 25 0400	Topol'	-	64581-441-52	0.000	RVSN	MS	-	-	Test	RML	-	-
1985-S147	2446405.99	1985 Dec 6 1147	Topol'	-	64581-451-55	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S168	2446539.08	1986 Apr 18 1350	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S169	2446693.43	1986 Sep 19 2220	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S171	2446764.19	1986 Nov 29 1630	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1986-S170	2446790.10	1986 Dec 25 1420	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S208	2446837.38	1987 Feb 10 2100	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S207	2446941.34	1987 May 25 2010	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S209	2446976.63	1987 Jun 30 0310	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S212	2446990.66	1987 Jul 14 0352	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1987-S210	2447007.62	1987 Jul 31 0300	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1987-S211	2447152.97	1987 Dec 23 1110	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1987-S213	2447153.26	1987 Dec 23 1815	Topol'	-	16L	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1988-S173	2447281.14	1988 Apr 29 1522	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S174	2447379.24	1988 Aug 5 1744	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S171	2447419.03	1988 Sep 14 1249	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S175	2447454.92	1988 Oct 20 1000	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1988-S172	2447504.87	1988 Dec 9 0857	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S124	2447565.10	1989 Feb 7 1425	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S125	2447607.16	1989 Mar 21 1545	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S126	2447693.11	1989 Jun 15 1445	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S127	2447790.07	1989 Sep 20 1345	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1989-S130	2447825.89	1989 Oct 26 0927	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1990-S75	2447979.82	1990 Mar 29 0745	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S96	2448033.31	1990 May 21 1920	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	RPCA	-
1990-S195	2448035.80	1990 May 24 0710	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1990-S112	2448104.00	1990 Jul 31 1155	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S115	2448106.99	1990 Aug 3 1150	Perimetr-RTs	-	1L	0.000	RVSN	MS	-	-	Test	RPC	RPCB	-
1990-S120	2448119.81	1990 Aug 16 0720	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S141	2448182.08	1990 Oct 17 1350	Perimetr-RTs	-	2L	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S147	2448197.10	1990 Nov 1 1430	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S160	2448221.87	1990 Nov 26 0859	Perimetr-RTs	-	3L	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S173	2448251.11	1990 Dec 25 1440	Perimetr-RTs	-	4L	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1990-S174	2448251.16	1990 Dec 25 1549	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	RPCA	-
1991-S62	2448294.84	1991 Feb 7 0815	Topol'	?	-	0.000	RVSN	MS	-	-	Test	RPC	-	-
1991-S92	2448352.09	1991 Apr 5 1405	Topol'	?	-	0.000	RVSN	MS	-	-	Test	RPC	-	-
1991-S116	2448433.21	1991 Jun 25 1700	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	-	-
1991-S137	2448488.45	1991 Aug 19 2255	Topol'	-	-	0.000	RVSN	MS	-	-	Test	RPC	-	-
1991-S159	2448532.16	1991 Oct 2 1550	Topol'	-	-	0.000	RVSN	MS	-	-	Test	PL06	-	-
1993-S16	2449044.07	1993 Feb 25 1340	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	NK9404-41	PL28	-
1993-O14	2449072.05	1993 Mar 25 1315:27	Start-1	-	-	0.260	RVSNR	OS	-	G	Sat LEO O	AVMP	-	-
1993-S49	2449191.85	1993 Jul 23 0824	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	RML	NK9404-41	PL28
1994-S42	2449525.85	1994 Jun 22 0822	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	PL40	-	-
1994-S69	2449619.14	1994 Sep 23 1515	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	PL40	TASS940924	-
1994-S82	2449666.81	1994 Nov 10 0730	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	PL40	-	-
1994-S93	2449706.87	1994 Dec 20 0850	Topol'-M	-	1L	0.000	RVSNR	MS	-	-	Test	PL40	NK0709-36	-
1995-F02	2449804.92	1995 Mar 28 1000	Start	-	-	0.260	RVSNR	OF	S4	G	Sat LEO O	NK9507-24	AVMN	St 4 failed
1995-S31	2449821.98	1995 Apr 14 1130	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	JCM	-	-
1995-S62	2449965.83	1995 Sep 5 0750	Topol'-M	-	2L	0.000	RVSNR	MS	-	-	Test	TASS950905	-	-
1995-S66	2450000.80	1995 Oct 10 0711	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	RML	TASS951010	-
1995-S90	2450031.83	1995 Nov 10 0755	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	RML	-	-
1996-S16	2450190.79	1996 Apr 17 0700	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	Wire	-	-
1996-S46	2450289.91	1996 Jul 25 0945	Topol'-M	-	3L	0.000	RVSNR	MS	-	-	Test	RML	Pervov	-
1996-S60	2450359.91	1996 Oct 3 0945	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	RML	www.nti.org	-
1996-S69	2450392.91	1996 Nov 5 0950	Topol'	-	52	0.000	RVSNR	MS	-	-	Test	RML	-	-
1997-010	2450511.58	1997 Mar 4 0200:02	Start-1.2	-	-	0.087	VKSR	OS	-	G	Sat SSO O	NK9705-11	-	-
1997-S49	2450638.02	1997 Jul 8 1225	Topol'-M	-	4L	0.000	RVSNR	MS	-	-	Test	PL55	-	-
1997-S65	2450724.80	1997 Oct 3 0707	Topol'	-	-	0.000	RVSNR	MS	-	-	Test	PL55	-	-
1997-085	2450807.06	1997 Dec 24 1332:52	Start-1	-	-	0.284	RVSNR	OS	-	G	Sat SSO O	Lissov	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1998-S52	2451072.97	1998 Sep 16 1110:04	Topol'	-	64536-21-443	0.000	RVSNR	MS	-	-	Test	PL55	-	-
1998-A03	2451109.04	1998 Oct 22 1252:58	Topol'-M	-	00354-59-101(5L)	0.000	RVSNR	MF	S1	-	Test	PL55	-	St1/2 sep
1998-S67	2451155.98	1998 Dec 8 1125	Topol'-M	-	00354-25-101(6L)	0.000	RVSNR	MS	-	-	Test	PL55	-	-
1999-S34	2451333.10	1999 Jun 3 1420	Topol'-M	-	00354-33-101(7L)	0.000	RVSNR	MS	-	-	Test	Wire	-	-
1999-S58	2451424.99	1999 Sep 3 1144	Topol'-M	-	00354-33-102(8L)	0.000	RVSNR	MS	-	-	Test	Wire	-	-
1999-S65	2451452.82	1999 Oct 1 0742:02	Topol'	-	64536-21-447	0.000	RVSNR	MS	-	-	Test	RML	www.nti.org	-
1999-S79	2451526.84	1999 Dec 14 0805	Topol'-M	-	00354-43-103(9L)	0.000	RVSNR	MS	-	-	Test	www.nti.org	-	-
2000-S05	2451583.92	2000 Feb 9 0959	Topol'-M	-	10L	0.000	RVSNR	MS	-	-	Test	Rigg	-	-
2000-S54	2451813.96	2000 Sep 26 1100	Topol'-M	-	00354-24-211(11L)	0.000	RVSNR	MS	-	-	Test	Rigg	-	-
2000-S55	2451814.91	2000 Sep 27 0950	Topol'-M 15Zh55	-	00354-43-104(1L)	0.000	RVSNR	MS	-	-	Test	www.nti.org	NK0709-36	RPCA
2000-S58	2451828.90	2000 Oct 11 0930	Topol'	-	64536-21-444	0.000	RVSNR	MS	-	-	OT	RML	Rigg	-
2000-079	2451884.02	2000 Dec 5 1232	Start-1	-	64516-21-434	0.250	PU	OS	-	CO	Sat SSO O	NK0102-26	-	-
2001-S10	2451956.95	2001 Feb 16 1043	Topol'	-	64536-22-434	0.000	RVSNR	MS	-	-	OT	russianspaceweb.com	-	-
2001-007	2451960.87	2001 Feb 20 0848:27	Start-1	-	168	0.250	PU	OS	-	CO	Sat SSO O	Wire	-	-
2001-S45	2452185.88	2001 Oct 3 0900	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	russianspaceweb.com	Kosmodrom0111	-
2001-S49	2452215.18	2001 Nov 1 1620	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianspaceweb.com	-
2001-S72	2452268.50	2001 Dec 25	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	RML	-	-
2002-S39	2452431.97	2002 Jun 6 1120	Topol'-M 15Zh55	-	-	0.000	RVSNR	MS	-	-	OT	RML	www.orbireport.com	-
2002-S64	2452559.91	2002 Oct 12 0952	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	www.orbireport.com	-	-
2003-S11	2452725.89	2003 Mar 27 0927:30	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	www.cosmoworld.ru	-	-
2003-A26	2452984.83	2003 Dec 11 0800	Bulava	-	-	0.000	VMF	MS	-	-	Test	RML	-	-
2004-S08	2453053.94	2004 Feb 18 1028	Topol'	-	-	0.000	RVSNR	MS	-	-	OT/R&D?	russianspaceweb.com	-	-
2004-S15	2453116.23	2004 Apr 20 1730	Topol'-M 15Zh55	-	-	0.000	RVSNR	MS	-	-	OT	NK-WWW	-	-
2004-A11	2453271.50	2004 Sep 23	Bulava	-	-	0.000	VMF	MS	-	-	Test	Wire	-	-
2004-S64	2453311.91	2004 Nov 2 0952	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2004-S73	2453363.90	2004 Dec 24 0939	Topol'-M 15Zh55	-	00354-416-30(3L)	0.000	RVSNR	MS	-	-	OT	NK-WWW	-	Impact 1003Z
2005-S39	2453641.06	2005 Sep 27 1322	Bulava	-	R-30 01	0.000	VMF	MS	-	-	OT	Wire	-	St3 fail
2005-S47	2453676.22	2005 Nov 1 1710:13	Topol'-E	-	645-7351-128	0.000	RVSNR	MS	-	-	OT	Wire	-	IP-10 target
2005-S55	2453703.82	2005 Nov 29 0744:04	Topol'	-	645-8145-161	0.000	RVSNR	MS	-	-	OT	NK-WWW	russianspaceweb.com	-
2005-S58	2453725.72	2005 Dec 21 0519	Bulava	-	R-30 02	0.000	VMF	MS	-	-	OT	Wire	--	-
2006-014	2453851.20	2006 Apr 25 1647:16	Start-1	-	645-3621-441	0.290	PU	OS	-	CO	Sat SSO O	NK0606-40	-	-
2006-S45	2453950.90	2006 Aug 3 0938:03	Topol'	-	645-8834-365	0.000	RVSNR	MS	-	-	OT	RML	-	Impact 1004Z
2006-A05	2453986.16	2006 Sep 7 1550	Bulava	-	R-30 03	0.000	VMF	MF	U	-	Test	Wire	-	-
2006-S56	2454034.05	2006 Oct 25 1305	Bulava	-	R-30 04	0.000	VMF	MF	U	-	Test	Wire	-	-
2006-A07	2454093.50	2006 Dec 24	Bulava	-	R-30 05	0.000	VMF	MF	U	-	Test	Wire	-	St 3 fail
2007-S23	2454249.93	2007 May 29 1020	Yars	-	1L	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2007-S41	2454280.14	2007 Jun 28 1525:00	Bulava	-	6L	0.000	VMF	MS	-	-	R&D	Wire	-	-
2007-S44	2454391.72	2007 Oct 18 0510:03	Topol'	-	645-8834-364	0.000	RVSNR	MS	-	-	OT	RML	-	-
2007-A09	2454414.50	2007 Nov 10	Bulava	-	R-30 07	0.000	VMF	MF	U	-	R&D	Wire	-	-
2007-S66	2454443.11	2007 Dec 8 1443	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2007-S67	2454460.05	2007 Dec 25 1310	Yars	-	2L	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2008-S42	2454706.94	2008 Aug 28 1035:03	Topol'-E	-	354-3512-248	0.000	RVSNR	MS	-	-	OT	RML	-	-
2008-S43	2454728.11	2008 Sep 18 1445:00	Bulava	-	R-30 08	0.000	VMF	MS	-	-	R&D?	RML	-	-
2008-S47	2454751.81	2008 Oct 12 0724:30	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2008-S68	2454797.06	2008 Nov 26 1319:47	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2008-S72	2454799.09	2008 Nov 28 1405	Bulava	-	R-30 09	0.000	VMF	MS	-	-	R&D?	RML	-	-
2008-S74	2454823.62	2008 Dec 23 0250	Bulava	-	R-30 10	0.000	VMF	MF	U	-	R&D?	RML	rian.ru	St 3 fail
2009-S20	2454931.84	2009 Apr 10 0809:56	Topol'	-	354-3511-253	0.000	RVSNR	MS	-	-	OT	RML	-	-
2009-A05	2455027.50	2009 Jul 15	Bulava	-	R-30 11 3M30	0.000	VMF	MF	U	-	R&D?	xinhua	-	St 1 fail
2009-S65	2455174.78	2009 Dec 9 0645	Bulava	-	R-30 12	0.000	VMF	MF	U	-	R&D?	RML	-	St 3 fail
2009-S66	2455176.02	2009 Dec 10 1235	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2010-S59	2455476.80	2010 Oct 7 0715	Bulava	-	R-30 13	0.000	VMF	MS	-	-	R&D?	RML	english.ruvr.ru	-
2010-S62	2455497.92	2010 Oct 28 0959	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2010-S65	2455498.55	2010 Oct 29 0110	Bulava	-	R-30 14	0.000	VMF	MS	-	-	R&D?	rian.ru	-	-
2010-S68	2455536.30	2010 Dec 5 1911	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	itar-tass.com	-	-
2011-S27	2455741.00	2011 Jun 28 1155	Bulava	-	R-30 15	0.000	VMF	MS	-	-	R&D?	russianforces.org	-	-
2011-S37	2455800.64	2011 Aug 27 0320	Bulava	-	R-30 16	0.000	VMF	MS	-	-	R&D?	russianforces.org	-	-
2011-S40	2455807.91	2011 Sep 3 0946	Topol'	-	146	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2011-A25	2455831.80	2011 Sep 27 0708	Rubezh	-	2L	0.000	RVSNR	MF	U	-	R&D	russianforces.org	-	-
2011-S52	2455862.65	2011 Oct 28 0340	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	russianforces.org	-	-
2011-S53	2455868.78	2011 Nov 3 0645	Topol'	-	354-3511-241	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2011-S66	2455919.16	2011 Dec 23 1550	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	anik_nsf	russianforces.org	-
2011-S67	2455919.16	2011 Dec 23 1550	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	anik_nsf	russianforces.org	-
2012-S22	2456070.76	2012 May 23 0615:00	Rubezh	-	2TL	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2012-S28	2456086.24	2012 Jun 7 1739	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	novosti-kosmonavtiki	-	-
2012-S59	2456219.88	2012 Oct 19 0912	Topol'	-	110	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2012-S64	2456225.27	2012 Oct 24 1828:52	Rubezh	-	-	0.000	RVSNR	MS	-	-	R&D	RML	novosti-kosmonavtiki	-
2013-S39	2456450.24	2013 Jun 6 1745	Rubezh	-	-	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2013-S62	2456541.72	2013 Sep 6 0520	Bulava	-	-	0.000	VMF	MF	U	-	Test	russianforces.org	-	St 2 fail
2013-S88	2456576.07	2013 Oct 10 1339	Topol'-E	-	-	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2013-S93	2456595.91	2013 Oct 30 0955	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2013-S112	2456645.06	2013 Dec 18 1331	Rubezh	-	-	0.000	RVSNR	MS	-	-	R&D	RML	-	-
2013-S104	2456650.79	2013 Dec 24 0700	Yars 15Zh65M	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2013-S105	2456654.23	2013 Dec 27 1730	Topol'-E	-	-	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2014-S07	2456721.26	2014 Mar 4 1810	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2014-S17	2456761.78	2014 Apr 14 0640	Yars	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2014-S21	2456785.90	2014 May 8 0939	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2014-S25	2456798.21	2014 May 20 1708	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2014-S50	2456910.67	2014 Sep 10 0405	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	russianforces.org	-	-
2014-S66	2456960.23	2014 Oct 29 1727	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	russianforces.org	-	-
2014-S67	2456962.76	2014 Nov 1 0620	Topol'-M	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2014-A43	2456973.28	2014 Nov 11 1846:18	Topol'-E	-	Topol'-E	0.000	RVSNR	MF	U	-	R&D	RPCA	-	-
2014-S74	2456990.17	2014 Nov 28 1609	Bulava	-	-	0.000	VMF	MS	-	-	R&D?	RML	russianforces.org	-
2014-S82	2457017.83	2014 Dec 26 0802	Yars	-	Yars-S	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2015-S20	2457099.30	2015 Mar 17 1914:59	Rubezh	-	-	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2015-S45	2457257.13	2015 Aug 22 1513	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2015-S57	2457323.98	2015 Oct 28 1130	Yars 15Zh65M	-	Yars-S	0.000	RVSNR	MS	-	-	OT	RML	-	-
2015-S60	2457325.93	2015 Oct 30 1024	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2015-S73	2457341.22	2015 Nov 14 1716:00	Bulava	-	-	0.000	VMF	MS	-	-	OT?	RML	-	-
2015-S74	2457341.22	2015 Nov 14 1716:10	Bulava	-	-	0.000	VMF	MS	-	-	OT?	RML	-	-
2015-S75	2457344.01	2015 Nov 17 1212:13	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	RML	-	-
2015-S94	2457381.25	2015 Dec 24 1755	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	russianforces.org	-	-
2016-S56	2457625.87	2016 Aug 25 0854	Yars-M	15Zh80	-	0.000	RVSNR	MF	U	-	OT	RML	-	-
2016-S57	2457640.92	2016 Sep 9 1010:05	Topol'-E	-	-	0.000	RVSNR	MS	-	-	OT	RML	-	-
2016-S59	2457659.10	2016 Sep 27 1420:00	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2016-A40	2457659.10	2016 Sep 27 1420:10	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2016-S63	2457673.95	2016 Oct 12 1046:04	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	-	-
2016-A107	2457693.50	2016 Nov 1	Yars	-	-	0.000	RVSNR	MS	-	-	Test	RML	-	-
2016-S80	2457717.82	2016 Nov 25 0735	Perimetr-RTs	-	-	0.000	RVSNR	MS	-	-	OT	RML	-	-
2017-S01	2457769.83	2017 Jan 16 0752:00	Topol'-M	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2017-S49	2457931.12	2017 Jun 26 1459	Bulava	-	-	0.000	VMF	MS	-	-	OT	Wire	-	-
2017-S77	2458008.84	2017 Sep 12 0810	Yars-M	15Zh81	-	0.000	RVSNR	MS	-	-	Test	russianforces.org	-	-
2017-S80	2458016.83	2017 Sep 20 0750	Yars	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2017-S85	2458023.15	2017 Sep 26 1530	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2017-S90	2458053.13	2017 Oct 26 1503:14	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2017-S106	2458113.64	2017 Dec 26 0325	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2018-S28	2458261.13	2018 May 22 1513:00?	Bulava	-	-	0.000	VMF	MF	U	-	OT	RML	-	-
2018-S29	2458261.13	2018 May 22 1513:07?	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2018-S30	2458261.13	2018 May 22 1513:14?	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2018-S31	2458261.13	2018 May 22 1513:21?	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2018-S84	2458288.77	2018 Jun 19 0625	Yars-M	15Zh80	-	0.000	RVSNR	MS	-	-	OT	RML	russianforces.org	-
2018-A192	2458304.29	2018 Jul 4 1900:05	Topol'-E	-	Topol'-E	0.000	RVSNR	MF	U	-	R&D	RML	-	-
2018-S87	2458408.88	2018 Oct 17 0900	Topol'-M	-	-	0.000	RVSNR	MF	U	-	OT	RML	-	-
2018-S88	2458409.85	2018 Oct 18 0830	Topol'	-	-	0.000	RVSNR	MS	-	-	OT	RML	-	-
2018-A191	2458459.24	2018 Dec 6 1740	Topol'-E	-	Topol'-E	0.000	RVSNR	MF	U	-	R&D	RML	-	-
2019-S07	2458520.86	2019 Feb 6 0831:26	Yars-M	15Zh80	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2019-S35	2458690.50	2019 Jul 26	Topol'-E	-	Topol'-E	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2019-S51	2458719.50	2019 Aug 24	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2019-S60	2458756.50	2019 Sep 30	Topol'-M	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2019-S61	2458773.50	2019 Oct 17?	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2019-S67	2458787.12	2019 Oct 30 1457	Bulava	-	-	0.000	VMF	MS	-	-	OT	vedomosti.ru	-	-
2019-S75	2458815.50	2019 Nov 28	Topol'-E	-	-	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2020-S45	2459192.50	2020 Dec 9	Yars	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2020-S48	2459195.50	2020 Dec 12	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2020-S49	2459195.50	2020 Dec 12	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2020-S50	2459195.50	2020 Dec 12	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2020-S51	2459195.50	2020 Dec 12	Bulava	-	-	0.000	VMF	MS	-	-	OT	RML	-	-
2021-S38	2459376.50	2021 Jun 11?	Topol'	-	15P182 Osina?	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2021-S91	2459508.50	2021 Oct 21	Bulava	-	-	0.000	VMF	MS	-	-	OT	Wire	-	-
2022-S15	2459629.50	2022 Feb 19	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2022-S136	2459730.50	2022 Jun?	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2022-S119	2459878.50	2022 Oct 26	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2022-S120	2459886.50	2022 Nov 3	Bulava	-	-	0.000	VMF	MS	-	-	OT	Wire	-	-
2023-S16	2460045.50	2023 Apr 11	Yars-E	-	-	0.000	RVSNR	MS	-	-	R&D	Wire	-	-
2023-S57	2460242.50	2023 Oct 25	Yars	-	-	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2023-S60	2460252.50	2023 Nov 4?	Bulava	-	-	0.000	VMF	MS	-	-	OT	Wire	-	-
2024-S05	2460370.50	2024 Mar 1	Yars	-	-	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2024-S16	2460413.17	2024 Apr 12 1600?	Yars-E	-	-	0.000	RVSNR	MS	-	-	R&D	twitter.com	-	-
2024-S74	2460635.62	2024 Nov 21 0300?	Oreshnik	-	-	0.000	RVSNR	MS	-	-	Weapon	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-S93	2458390.50	2018 Sep 29	Traveler	-	Traveler III	-	-	-	-	BROCK	-	-	-	100?	-	-
2019-S27	2458594.50	2019 Apr 21	Traveler	-	Traveler IV	-	-	-	-	SPAM	-	-	-	103	-	-
2023-A18	2460035.50	2023 Apr 1	Traveler	-	Fireball	-	-	-	-	SPAM	-	-	-	43	-	-
2024-A10	2460420.50	2024 Apr 20	Aftershock	-	Aftershock	-	-	-	-	BROCK	-	-	-	1?	-	-
2024-S63	2460604.27	2024 Oct 20 1824	Aftershock	-	Aftershock II	-	-	-	-	BROCK	-	-	-	143	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-S93	2458390.50	2018 Sep 29	Traveler	-	Traveler III	0.000	USCLA	SS	-	USCLA/	Test	uscrpl.com	-	-
2019-S27	2458594.50	2019 Apr 21	Traveler	-	Traveler IV	0.000	USCLA	SS	-	USCLA/	Test	uscrpl.com	-	-
2023-A18	2460035.50	2023 Apr 1	Traveler	-	Fireball	0.000	USCLA	SS	-	USCLA/	Test	uscrpl.com	-	-
2024-A10	2460420.50	2024 Apr 20	Aftershock	-	Aftershock	0.000	USCLA	SF	FS	USCLA/	Test	uscrpl.com	-	Nose cone fell off
2024-S63	2460604.27	2024 Oct 20 1824	Aftershock	-	Aftershock II	0.000	USCLA	SS	-	USCLA/	Test	uscrpl.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S44	2443162.29	1977 Jan 18 1903	Trident C-4	-	C4X-1	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S79	2443190.47	1977 Feb 15 2310	Trident C-4	-	C4X-2	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S131	2443231.14	1977 Mar 28 1517	Trident C-4	-	C4X-3	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S151	2443263.09	1977 Apr 29 1409	Trident C-4	-	C4X-6	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S205	2443321.96	1977 Jun 27 1100:01	Trident C-4	-	C4X-8	Evader 207	Mk 500 RB 207	-	-	CC	LC25C	-	-	1000?	-	-
1977-S232	2443374.30	1977 Aug 18 1918:01	Trident C-4	-	C4X-10	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S241	2443390.09	1977 Sep 3 1416:00	Trident C-4	-	C4X-9	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S263	2443436.26	1977 Oct 19 1808	Trident C-4	-	C4X-11	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1977-S295	2443483.09	1977 Dec 5 1408	Trident C-4	-	C4X-12	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S47	2443526.35	1978 Jan 17 2021	Trident C-4	-	C4X-13	Imp. Evader 106A	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S73	2443554.40	1978 Feb 14 2130	Trident C-4	-	C4X-14	Imp. Evader 209	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S111	2443611.15	1978 Apr 12 1531	Trident C-4	-	C4X-15	-	-	-	-	CC	LC25C	-	-	100?	-	-
1978-S163	2443681.99	1978 Jun 22 1149	Trident C-4	-	C4X-17	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S195	2443731.60	1978 Aug 11 0220	Trident C-4	-	C4X-18	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S222	2443808.12	1978 Oct 26 1453	Trident C-4	-	C4X-16	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-S234	2443830.35	1978 Nov 17 2017	Trident C-4	-	C4X-19	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1978-A56	2443859.24	1978 Dec 16 1743	Trident C-4	-	C4X-20	-	-	-	-	CC	LC25C	-	-	1?	-	-
1979-S42	2443897.12	1979 Jan 23 1500	Trident C-4	-	C4X-21	-	-	-	-	CC	LC25C	-	-	1000?	-	-
1979-A21	2443973.92	1979 Apr 10 1000	Trident C-4	-	C4T-1	PEM-1	-	-	SSBN-657	ETR	SLBM	-	-	10?	-	-
1979-S146	2444033.28	1979 Jun 8 1837	Trident C-4	-	C4T-3	PEM-3	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S149	2444044.25	1979 Jun 19 1800	Trident C-4	-	C4T-2	PEM-2	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S161	2444069.25	1979 Jul 14 1800	Trident C-4	-	C4T-5	PEM-4	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S171	2444077.25	1979 Jul 22 1800	Trident C-4	-	C4TE-4-PEM-5	Imp. Evader 210	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S175	2444085.59	1979 Jul 31 0215	Trident C-4	-	C4T-7	PEM-7	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S176	2444085.69	1979 Jul 31 0433	Trident C-4	-	C4T-6	PEM-6	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S194	2444114.52	1979 Aug 29 0030	Trident C-4	-	-	DASO-1	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S212	2444143.49	1979 Sep 26 2344	Trident C-4	-	-	DASO-2?	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1979-S249	2444221.23	1979 Dec 13 1730	Trident C-4	-	-	DASO-3?	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S59	2444298.05	1980 Feb 28 1313	Trident C-4	-	-	OT-1	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S60	2444298.05	1980 Feb 28 1313	Trident C-4	-	-	OT-1	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S61	2444298.09	1980 Feb 28 1415	Trident C-4	-	-	OT-1	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S62	2444298.09	1980 Feb 28 1415	Trident C-4	-	-	OT-1	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S71	2444325.01	1980 Mar 26 1219	Trident C-4	-	-	DASO-4?	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1980-S80	2444331.02	1980 Apr 1 1236	Trident C-4	-	-	OT-2	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S81	2444332.03	1980 Apr 2 1239	Trident C-4	-	-	OT-2	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S82	2444332.10	1980 Apr 2 1423	Trident C-4	-	-	OT-2	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S83	2444332.10	1980 Apr 2 1423	Trident C-4	-	-	OT-2	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S114	2444387.77	1980 May 28 0623	Trident C-4	-	-	OT-3	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S115	2444387.77	1980 May 28 0624	Trident C-4	-	-	OT-3	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S116	2444387.79	1980 May 28 0652	Trident C-4	-	-	OT-3	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S117	2444387.79	1980 May 28 0652	Trident C-4	-	-	OT-3	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1980-S127	2444417.74	1980 Jun 27 0539	Trident C-4	-	-	OT-4	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S128	2444417.74	1980 Jun 27 0539	Trident C-4	-	-	OT-4	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S129	2444417.75	1980 Jun 27 0553	Trident C-4	-	-	OT-4	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S130	2444417.75	1980 Jun 27 0553	Trident C-4	-	-	OT-4	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1980-S145	2444442.63	1980 Jul 22 0310	Trident C-4	-	-	DASO-5?	-	-	SSBN-629	ETR	SLBM	-	-	1000?	-	-
1980-S160	2444478.60	1980 Aug 27 0219	Trident C-4	-	-	OT-5	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1980-S161	2444478.60	1980 Aug 27 0220	Trident C-4	-	-	OT-5	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1980-S162	2444478.60	1980 Aug 27 0220	Trident C-4	-	-	OT-5	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1980-S192	2444541.39	1980 Oct 28 2125	Trident C-4	-	-	DASO-6?	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1981-S92	2444695.88	1981 Apr 1 0910	Trident C-4	-	-	DASO-7?	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1981-S140	2444829.60	1981 Aug 13 0226	Trident C-4	-	-	OT-6	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1981-S141	2444829.62	1981 Aug 13 0246	Trident C-4	-	-	OT-6	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1981-S142	2444829.65	1981 Aug 13 0332	Trident C-4	-	-	OT-6	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1981-S143	2444829.65	1981 Aug 13 0332	Trident C-4	-	-	OT-6	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1981-S150	2444844.50	1981 Aug 28 0003	Trident C-4	-	-	OT-7	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1981-S151	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	OT-7	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1981-S152	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	OT-7	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1981-S153	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	OT-7	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1981-A29	2444924.24	1981 Nov 15 1750	Trident C-4	-	DASO-8	Adv Evader 211	-	-	SSBN-640	ETR	SLBM	-	-	20?	-	-
1982-S35	2444987.09	1982 Jan 17 1411	Trident C-4	-	-	DASO-9	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1982-S46	2444996.03	1982 Jan 26 1250	Trident C-4	-	-	DASO-10	-	-	SSBN-634	ETR	SLBM	-	-	1000?	-	-
1982-S80	2445042.21	1982 Mar 13 1700	Trident C-4	-	-	DASO-11	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1982-S82	2445045.50	1982 Mar 17	Trident C-4	-	-	OT-8	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1982-S83	2445045.50	1982 Mar 17	Trident C-4	-	-	OT-8	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1982-S84	2445045.50	1982 Mar 17	Trident C-4	-	-	OT-8	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1982-S85	2445045.94	1982 Mar 17 1034	Trident C-4	-	-	OT-8	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1982-S110	2445084.24	1982 Apr 24 1752	Trident C-4	-	-	DASO-12	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1982-S124	2445126.33	1982 Jun 5 2000	Trident C-4	-	-	DASO-13	-	-	SSBN-627	ETR	SLBM	-	-	1000?	-	-
1982-S189	2445288.21	1982 Nov 14 1700	Trident C-4	-	-	DASO	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1982-S192	2445295.23	1982 Nov 21 1734	Trident C-4	-	DASO-15	Adv Evader211A	-	-	SSBN-727	ETR	SLBM	-	-	1000?	-	-
1983-S54	2445372.50	1983 Feb 7	Trident C-4	-	-	FOT	-	-	SSBN-640	ETR	SLBM	-	-	1000?	-	-
1983-S56	2445373.07	1983 Feb 7 1342	Trident C-4	-	-	FOT	-	-	SSBN-640	ETR	SLBM	-	-	1000?	-	-
1983-A19	2445444.21	1983 Apr 19 1700	Trident C-4	-	-	DASO	-	-	SSBN-633	ETR	SLBM	-	-	20?	-	-
1983-S143	2445552.50	1983 Aug 6	Trident C-4	-	-	FOT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1983-S144	2445552.53	1983 Aug 6 0038	Trident C-4	-	-	FOT	-	-	SSBN-641	ETR	SLBM	-	-	1000?	-	-
1983-S149	2445568.25	1983 Aug 21 1800	Trident C-4	-	-	DASO	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1983-S341	2445577.50	1983 Sep?	Trident C-4	-	-	FOT	-	-	SSBN-726	WTR	LP5?	-	-	1000?	-	-
1983-S342	2445577.50	1983 Sep?	Trident C-4	-	-	FOT	-	-	SSBN-726	WTR	LP5?	-	-	1000?	-	-
1983-S343	2445577.50	1983 Sep?	Trident C-4	-	-	FOT	-	-	SSBN-726	WTR	LP5?	-	-	1000?	-	-
1983-S344	2445577.50	1983 Sep?	Trident C-4	-	-	FOT	-	-	SSBN-726	WTR	LP5?	-	-	1000?	-	-
1983-S183	2445611.27	1983 Oct 3 1834	Trident C-4	-	-	DASO	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1983-S198	2445645.50	1983 Nov 7	Trident C-4	-	-	FOT	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1983-S199	2445646.25	1983 Nov 7 1802	Trident C-4	-	-	FOT	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1983-S215	2445674.50	1983 Dec 6	Trident C-4	-	-	WTR to Wake	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	WAKE
1984-S79	2445797.81	1984 Apr 7 0720	Trident C-4	-	-	DASO	-	-	SSBN-729	ETR	SLBM	-	-	1000?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1984-S135	2445854.50	1984 Jun 3	Trident C-4	-	-	WTR to Wake	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	WAKE
1984-S136	2445883.50	1984 Jul 2	Trident C-4	-	-	WTR to Wake?	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	WAKE?
1984-S110	2445936.50	1984 Aug 24	Trident C-4	-	-	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1984-S111	2445937.40	1984 Aug 24 2143	Trident C-4	-	-	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1984-S123	2445983.38	1984 Oct 9 2105	Trident C-4	-	-	DASO	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1984-S132	2446039.33	1984 Dec 4 1954	Trident C-4	-	-	DASO	-	-	SSBN-730	ETR	SLBM	-	-	1000?	-	-
1984-S134	2446050.36	1984 Dec 15 2044	Trident C-4	-	-	DASO	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1985-S91	2446234.50	1985 Jun 18	Trident C-4	-	-	FOT	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1985-S92	2446234.50	1985 Jun 18	Trident C-4	-	-	FOT	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1985-S93	2446234.50	1985 Jun 18	Trident C-4	-	-	FOT	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1985-S94	2446234.63	1985 Jun 18 0312	Trident C-4	-	-	FOT	-	-	SSBN-633	ETR	SLBM	-	-	1000?	-	-
1985-S98	2446252.54	1985 Jul 6 0055	Trident C-4	-	-	DASO	-	-	SSBN-731	ETR	SLBM	-	-	1000?	-	-
1985-S341	2446308.50	1985 Sep	Trident C-4	-	-	FOT	-	-	SSBN-UNK	WTR	LP5?	-	-	1000?	-	KMR
1985-S140	2446407.15	1985 Dec 7 1530	Trident C-4	-	-	DASO	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1986-S23	2446483.22	1986 Feb 21 1715	Trident C-4	-	-	DASO	-	-	SSBN-732	ETR	SLBM	-	-	1000?	-	-
1986-S72	2446639.50	1986 Jul 28	Trident C-4	-	-	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1986-S73	2446640.41	1986 Jul 28 2155	Trident C-4	-	-	FOT	-	-	SSBN-655	ETR	SLBM	-	-	1000?	-	-
1986-S88	2446673.50	1986 Aug 31	Trident C-4	-	-	DASO	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1986-S91	2446690.50	1986 Sep 17	Trident C-4	-	-	FOT	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1986-S92	2446691.29	1986 Sep 17 1904	Trident C-4	-	-	FOT	-	-	SSBN-632	ETR	SLBM	-	-	1000?	-	-
1986-S101	2446704.14	1986 Sep 30 1520	Trident C-4	-	-	DASO	-	-	SSBN-733	ETR	SLBM	-	-	1000?	-	-
1987-S129	2447031.66	1987 Aug 24 0352	Trident C-4	-	-	DASO/JANUS	-	-	SSBN-629	ETR	SLBM	-	-	1000?	-	-
1987-S132	2447036.50	1987 Aug 29	Trident C-4	-	-	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1987-S133	2447036.50	1987 Aug 29	Trident C-4	-	-	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1987-S134	2447036.50	1987 Aug 29	Trident C-4	-	-	FOT	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1987-S135	2447037.49	1987 Aug 29 2343	Trident C-4	-	-	FOT 140?	-	-	SSBN-630	ETR	SLBM	-	-	1000?	-	-
1988-A03	2447198.33	1988 Feb 6 1955	Trident C-4	-	-	DASO	-	-	SSBN-641	ETR	SLBM	-	-	2?	-	-
1988-S61	2447219.14	1988 Feb 27 1527	Trident C-4	-	-	DASO	-	-	SSBN-634	ETR	SLBM	-	-	1000?	-	-
1988-S80	2447266.50	1988 Apr 15	Trident C-4	-	-	FOT	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1988-S81	2447266.50	1988 Apr 15	Trident C-4	-	-	FOT	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1988-S83	2447266.67	1988 Apr 15 0411	Trident C-4	-	-	FOT	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1988-S82	2447266.73	1988 Apr 15 0526	Trident C-4	-	-	FOT	-	-	SSBN-658	ETR	SLBM	-	-	1000?	-	-
1988-S95	2447296.66	1988 May 15 0345	Trident C-4	-	-	-	-	-	SSBN-731	WTR	LP5	-	-	1000?	-	-
1989-S29	2447549.94	1989 Jan 23 1040:05	Trident C-4	-	-	DASO-31	-	-	SSBN-640	ETR	SLBM	-	-	1000?	-	-
1989-S35	2447561.63	1989 Feb 4 0303:04	Trident C-4	-	-	DASO-32/JANUS	-	-	SSBN-643	ETR	SLBM	-	-	1000?	-	-
1990-S69	2447974.68	1990 Mar 24 0416	Trident C-4	-	-	CET .	-	-	SSBN-629	ETR	LP5	-	-	1000?	-	-
1990-S70	2447974.50	1990 Mar 24	Trident C-4	-	-	CET	-	-	SSBN-629	ETR	LP5	-	-	1000?	-	-
1990-S71	2447974.50	1990 Mar 24	Trident C-4	-	-	CET	-	-	SSBN-629	ETR	LP5	-	-	1000?	-	-
1990-S72	2447974.50	1990 Mar 24	Trident C-4	-	-	CET	-	-	SSBN-629	ETR	LP5	-	-	1000?	-	-
1991-S88	2448334.50	1991 Mar 19	Trident C-4	-	-	-	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
1991-S89	2448334.50	1991 Mar 19	Trident C-4	-	-	-	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
1991-S106	2448386.50	1991 May 10	Trident C-4	-	FCET-39	FCET	-	-	SSBN-658	ETR	LP5	-	-	1000?	-	-
1991-S107	2448386.50	1991 May 10	Trident C-4	-	FCET-39	FCET	-	-	SSBN-658	ETR	LP5	-	-	1000?	-	-
1991-S189	2448386.50	1991 May 10	Trident C-4	-	-	FCET	-	-	SSBN-658	ETR	LP5	-	-	1000?	-	-
1991-S190	2448386.50	1991 May 10	Trident C-4	-	-	FCET	-	-	SSBN-658	ETR	LP5	-	-	1000?	-	-
1991-S191	2448427.25	1991 Jun 19 1800:00	Trident C-4	-	-	- .	-	-	SSBN-657	ETR	SLBM	-	-	1000?	-	-
1992-S35	2448720.50	1992 Apr 8	Trident C-4	-	-	FCET-40	-	-	SSBN-655	ETR	LP5	-	-	1000?	-	-
1992-S36	2448720.50	1992 Apr 8	Trident C-4	-	-	FCET-40	-	-	SSBN-655	ETR	LP5	-	-	1000?	-	-
1994-S24	2449440.25	1994 Mar 28 1806:55	Trident C-4	-	FCET-44	- 181?	-	-	SSBN-729	ETR	LP5	-	-	1000?	-	-
1994-S25	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	-	-	-	SSBN-729	ETR	LP5	-	-	1000?	-	-
1994-S26	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	-	-	-	SSBN-729	ETR	LP5	-	-	1000?	-	-
1994-S27	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	-	-	-	SSBN-729	ETR	LP5	-	-	1000?	-	-
1994-S79	2449648.34	1994 Oct 22 2009:03	Trident C-4	-	DASO-33	-	-	-	SSBN-726	ETR	D4	-	-	1000?	-	-
1994-S89	2449694.17	1994 Dec 7 1611:40	Trident C-4	-	FCET-45	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1994-S90	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1994-S97	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1994-S98	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1995-S16	2449783.34	1995 Mar 6 2007:32	Trident C-4	-	FCET-46	- 190?	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S17	2449783.34	1995 Mar 6 2007:49	Trident C-4	-	FCET-46	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S18	2449783.38	1995 Mar 6 2103:25	Trident C-4	-	FCET-46	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S89	2449783.38	1995 Mar 6 2103:42	Trident C-4	-	FCET-46	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S19	2449791.20	1995 Mar 14 1650:01	Trident C-4	-	FCET-46A	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S20	2449791.20	1995 Mar 14 1650:20	Trident C-4	-	FCET-46A	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1995-S71	2450020.38	1995 Oct 29 2100:03	Trident C-4	-	DASO-34	-	-	-	SSBN-727	ETR	SLBM	-	-	1000?	-	-
1996-S21	2450220.41	1996 May 16 2148:55	Trident C-4	-	FCET-47	-	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1996-S22	2450220.41	1996 May 16 2149:12	Trident C-4	-	FCET-47	-	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1996-S23	2450220.45	1996 May 16 2250:13	Trident C-4	-	FCET-47	-	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1996-S24	2450220.45	1996 May 16 2250:31	Trident C-4	-	FCET-47	- 200?	-	-	SSBN-726	ETR	SLBM	-	-	1000?	-	-
1996-S58	2450359.44	1996 Oct 2 2230:03	Trident C-4	-	DASO-35	-	-	-	SSBN-728	ETR	SLBM	-	-	1000?	-	-
1997-S14	2450500.34	1997 Feb 20 2011:31	Trident C-4	-	FCET-48	-	-	-	SSBN-732	ETR	LP5	-	-	1000?	-	-
1997-S15	2450500.34	1997 Feb 20 2011:49	Trident C-4	-	FCET-48	-	-	-	SSBN-732	ETR	LP5	-	-	1000?	-	-
1997-S16	2450500.39	1997 Feb 20 2124:47	Trident C-4	-	FCET-48	-	-	-	SSBN-732	ETR	LP5	-	-	1000?	-	-
1997-S17	2450500.39	1997 Feb 20 2125:04	Trident C-4	-	FCET-48	-	-	-	SSBN-732	ETR	LP5	-	-	1000?	-	-
1998-S10	2450855.40	1998 Feb 10 2133:09	Trident C-4	-	FCET-49	-	-	-	SSBN-733	ETR	LP5	-	-	1000?	-	-
1998-S11	2450855.40	1998 Feb 10 2133:26	Trident C-4	-	FCET-49	-	-	-	SSBN-733	ETR	LP5	-	-	1000?	-	-
1998-S12	2450855.44	1998 Feb 10 2236:47	Trident C-4	-	FCET-49	-	-	-	SSBN-733	ETR	LP5	-	-	1000?	-	-
1998-S13	2450855.44	1998 Feb 10 2237:04	Trident C-4	-	FCET-49	-	-	-	SSBN-733	ETR	LP5	-	-	1000?	-	-
1999-S14	2451261.41	1999 Mar 23 2146:10	Trident C-4	-	FCET-50	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1999-S15	2451261.41	1999 Mar 23 2146:28	Trident C-4	-	FCET-50	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1999-S16	2451262.51	1999 Mar 25 0017:05	Trident C-4	-	FCET-50	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
1999-S17	2451262.51	1999 Mar 25 0017:22	Trident C-4	-	FCET-50	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
2000-S08	2451601.33	2000 Feb 26 2000	Trident C-4	-	FCET-51	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
2000-S09	2451601.33	2000 Feb 26 2000	Trident C-4	-	FCET-51	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
2000-S10	2451601.45	2000 Feb 26 2243	Trident C-4	-	FCET-51	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
2000-S11	2451601.45	2000 Feb 26 2243	Trident C-4	-	FCET-51	-	-	-	SSBN-730	ETR	LP5	-	-	1000?	-	-
2001-S54	2452253.34	2001 Dec 9 2011	Trident C-4	-	FCET-52	OT-III (218)	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2001-S55	2452253.34	2001 Dec 9 2011	Trident C-4	-	FCET-52	OT-III	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S56	2452253.40	2001 Dec 9 2136	Trident C-4	-	FCET-52	OT-III	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S57	2452253.40	2001 Dec 9 2136	Trident C-4	-	FCET-52	OT-III (221)	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S60	2452262.34	2001 Dec 18 2011	Trident C-4	-	FCET-53	OT-III (223)	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S61	2452262.34	2001 Dec 18 2011	Trident C-4	-	FCET-53	OT-III (224)	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S62	2452262.42	2001 Dec 18 2204	Trident C-4	-	FCET-53	OT-III (225)	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2001-S63	2452262.42	2001 Dec 18 2204	Trident C-4	-	FCET-53	OT-III	-	-	SSBN-726	ETR	LP5	-	-	1000?	-	-
2010-S12	2455228.49	2010 Jan 31 2339	LV-2	-	-	GMD FTG-06 Target	-	-	-	KMR	Meck	-	-	1000?	-	-
2010-S76	2455546.33	2010 Dec 15 1957?	LV-2	-	-	GMD FTG-06A Target	-	-	-	KMR	Meck	-	-	1000?	-	-
2011-S12	2455666.79	2011 Apr 15 0652	LV-2	-	-	Aegis FTM-15 Target	-	-	-	KMR	Meck	-	-	1000?	-	-
2013-S47	2456479.27	2013 Jul 5 1830	LV-2	-	GBI Target	GMD FTG-07 Target	-	-	-	KMR	Meck?	-	-	1000?	-	-
2014-S32	2456831.28	2014 Jun 22 1849?	LV-2	-	GBI Target	GMD FTG-06b Target	-	-	-	KMR	Meck	-	-	1000?	-	-
2017-S36	2457904.30	2017 May 30 1910?	ICBM-T2	-	-	FTG-15 Target	FTG-15 Target	FTG-15	-	KMR	Meck	-	-	1300?	-	Pacific
2019-S10	2458568.22	2019 Mar 25 1720?	ICBM-T2	?	GBI Target	FTG-11 Target	FTG-11 Target	-	-	KMR	Meck	-	-	1300?	-	Pacific
2020-S40	2459170.74	2020 Nov 17 0550	ICBM-T2	?	GBI Target	FTM-44 Target	FTM-44 Target	-	-	KMR	Meck	-	-	1300?	-	Pacific
2021-S28	2459363.50	2021 May 29	MRBM-T3c2	-	Aegis FTM-31E1 Tgt	FTM-31E1 Target	-	-	-	KMR	Meck	-	-	500?	-	Pacific
2021-A25	2459508.50	2021 Oct 21	ICBM-T1	?	CPS FT-3	CHGB/AHW test	-	-	-	PSCA	LP2?	-	-	10?	-	-
2023-S12	2460033.50	2023 Mar 30	MRBM-T3c2	-	Aegis FTM-31E1a Tgt	FTM-31E1a Target	T3C2 MRBM Target	-	-	KAU	LC42	-	-	500?	-	Pacific
2024-S11	2460397.50	2024 Mar 28	MRBM-T3c2	-	Aegis FTM-32	FTM-32 Target	MRBM Target	-	-	KAU	LC42	-	-	500?	-	Pacific

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S44	2443162.29	1977 Jan 18 1903	Trident C-4	-	C4X-1	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S79	2443190.47	1977 Feb 15 2310	Trident C-4	-	C4X-2	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S131	2443231.14	1977 Mar 28 1517	Trident C-4	-	C4X-3	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S151	2443263.09	1977 Apr 29 1409	Trident C-4	-	C4X-6	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S205	2443321.96	1977 Jun 27 1100:01	Trident C-4	-	C4X-8	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S232	2443374.30	1977 Aug 18 1918:01	Trident C-4	-	C4X-10	0.000	SSPO	MS	-	-	Test	CCMOPS	[Not in McManus]	-
1977-S241	2443390.09	1977 Sep 3 1416:00	Trident C-4	-	C4X-9	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S263	2443436.26	1977 Oct 19 1808	Trident C-4	-	C4X-11	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1977-S295	2443483.09	1977 Dec 5 1408	Trident C-4	-	C4X-12	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1978-S47	2443526.35	1978 Jan 17 2021	Trident C-4	-	C4X-13	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1978-S73	2443554.40	1978 Feb 14 2130	Trident C-4	-	C4X-14	0.000	SSPO	MF	U	-	Test	CCMOPS	McManus	-
1978-S111	2443611.15	1978 Apr 12 1531	Trident C-4	-	C4X-15	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1978-S163	2443681.99	1978 Jun 22 1149	Trident C-4	-	C4X-17	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1978-S195	2443731.60	1978 Aug 11 0220	Trident C-4	-	C4X-18	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1978-S222	2443808.12	1978 Oct 26 1453	Trident C-4	-	C4X-16	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1978-S234	2443830.35	1978 Nov 17 2017	Trident C-4	-	C4X-19	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1978-A56	2443859.24	1978 Dec 16 1743	Trident C-4	-	C4X-20	0.000	SSPO	MF	U	-	Test	CCMOPS	-	-
1979-S42	2443897.12	1979 Jan 23 1500	Trident C-4	-	C4X-21	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1979-A21	2443973.92	1979 Apr 10 1000	Trident C-4	-	C4T-1	0.000	SSPO	MF	U	-	OT	Scala	Cleary95	-
1979-S146	2444033.28	1979 Jun 8 1837	Trident C-4	-	C4T-3	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S149	2444044.25	1979 Jun 19 1800	Trident C-4	-	C4T-2	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S161	2444069.25	1979 Jul 14 1800	Trident C-4	-	C4T-5	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S171	2444077.25	1979 Jul 22 1800	Trident C-4	-	C4TE-4-PEM-5	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S175	2444085.59	1979 Jul 31 0215	Trident C-4	-	C4T-7	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S176	2444085.69	1979 Jul 31 0433	Trident C-4	-	C4T-6	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S194	2444114.52	1979 Aug 29 0030	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S212	2444143.49	1979 Sep 26 2344	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1979-S249	2444221.23	1979 Dec 13 1730	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S59	2444298.05	1980 Feb 28 1313	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S60	2444298.05	1980 Feb 28 1313	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S61	2444298.09	1980 Feb 28 1415	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S62	2444298.09	1980 Feb 28 1415	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S71	2444325.01	1980 Mar 26 1219	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S80	2444331.02	1980 Apr 1 1236	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S81	2444332.03	1980 Apr 2 1239	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S82	2444332.10	1980 Apr 2 1423	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S83	2444332.10	1980 Apr 2 1423	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S114	2444387.77	1980 May 28 0623	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S115	2444387.77	1980 May 28 0624	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S116	2444387.79	1980 May 28 0652	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S117	2444387.79	1980 May 28 0652	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S127	2444417.74	1980 Jun 27 0539	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S128	2444417.74	1980 Jun 27 0539	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S129	2444417.75	1980 Jun 27 0553	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S130	2444417.75	1980 Jun 27 0553	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S145	2444442.63	1980 Jul 22 0310	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S160	2444478.60	1980 Aug 27 0219	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S161	2444478.60	1980 Aug 27 0220	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S162	2444478.60	1980 Aug 27 0220	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1980-S192	2444541.39	1980 Oct 28 2125	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S92	2444695.88	1981 Apr 1 0910	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S140	2444829.60	1981 Aug 13 0226	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S141	2444829.62	1981 Aug 13 0246	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S142	2444829.65	1981 Aug 13 0332	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S143	2444829.65	1981 Aug 13 0332	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S150	2444844.50	1981 Aug 28 0003	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S151	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S152	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-S153	2444844.50	1981 Aug 28 0004	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1981-A29	2444924.24	1981 Nov 15 1750	Trident C-4	-	DASO-8	0.000	SSPO	MF	U	-	OT	CCMOPS	Scala	-
1982-S35	2444987.09	1982 Jan 17 1411	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S46	2444996.03	1982 Jan 26 1250	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S80	2445042.21	1982 Mar 13 1700	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S82	2445045.50	1982 Mar 17	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S83	2445045.50	1982 Mar 17	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S84	2445045.50	1982 Mar 17	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S85	2445045.94	1982 Mar 17 1034	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S110	2445084.24	1982 Apr 24 1752	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S124	2445126.33	1982 Jun 5 2000	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S189	2445288.21	1982 Nov 14 1700	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1982-S192	2445295.23	1982 Nov 21 1734	Trident C-4	-	DASO-15	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S54	2445372.50	1983 Feb 7	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S56	2445373.07	1983 Feb 7 1342	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-A19	2445444.21	1983 Apr 19 1700	Trident C-4	-	-	0.000	SSPO	MF	U	-	OT	CCMOPS	-	-
1983-S143	2445552.50	1983 Aug 6	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S144	2445552.53	1983 Aug 6 0038	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S149	2445568.25	1983 Aug 21 1800	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S341	2445577.50	1983 Sep?	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	ChaGrRain	-	-
1983-S342	2445577.50	1983 Sep?	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	ChaGrRain	-	-
1983-S343	2445577.50	1983 Sep?	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	ChaGrRain	-	-
1983-S344	2445577.50	1983 Sep?	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	ChaGrRain	-	-
1983-S183	2445611.27	1983 Oct 3 1834	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S198	2445645.50	1983 Nov 7	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S199	2445646.25	1983 Nov 7 1802	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1983-S215	2445674.50	1983 Dec 6	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	Powell	-	-
1984-S79	2445797.81	1984 Apr 7 0720	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1984-S135	2445854.50	1984 Jun 3	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	Powell	-	-
1984-S136	2445883.50	1984 Jul 2	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	Powell	-	-
1984-S110	2445936.50	1984 Aug 24	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S111	2445937.40	1984 Aug 24 2143	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S123	2445983.38	1984 Oct 9 2105	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S132	2446039.33	1984 Dec 4 1954	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1984-S134	2446050.36	1984 Dec 15 2044	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S91	2446234.50	1985 Jun 18	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S92	2446234.50	1985 Jun 18	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S93	2446234.50	1985 Jun 18	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S94	2446234.63	1985 Jun 18 0312	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S98	2446252.54	1985 Jul 6 0055	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1985-S341	2446308.50	1985 Sep	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	ChaGrRain	-	-
1985-S140	2446407.15	1985 Dec 7 1530	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S23	2446483.22	1986 Feb 21 1715	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S72	2446639.50	1986 Jul 28	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S73	2446640.41	1986 Jul 28 2155	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S88	2446673.50	1986 Aug 31	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S91	2446690.50	1986 Sep 17	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S92	2446691.29	1986 Sep 17 1904	Trident C-4	-	-	0.000	SSPO	MS	-	-	OT	CCMOPS	-	-
1986-S101	2446704.14	1986 Sep 30 1520	Trident C-4	-	-	0.000	SSPO	MS	-	-	Test	CCMOPS	-	-
1987-S129	2447031.66	1987 Aug 24 0352	Trident C-4	-	-	0.000	SDIO	MS	-	-	Tech	CCMOPS	-	-
1987-S132	2447036.50	1987 Aug 29	Trident C-4	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S133	2447036.50	1987 Aug 29	Trident C-4	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S134	2447036.50	1987 Aug 29	Trident C-4	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1987-S135	2447037.49	1987 Aug 29 2343	Trident C-4	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1988-A03	2447198.33	1988 Feb 6 1955	Trident C-4	-	-	0.000	USNSSP	MF	S2	-	OT	CCMOPS	-	-
1988-S61	2447219.14	1988 Feb 27 1527	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	CCMOPS	-	-
1988-S80	2447266.50	1988 Apr 15	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	CCMOPS	-	-
1988-S81	2447266.50	1988 Apr 15	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	CCMOPS	-	-
1988-S83	2447266.67	1988 Apr 15 0411	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	CCMOPS	-	-
1988-S82	2447266.73	1988 Apr 15 0526	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	nsf-koenn	CCMOPS	-
1988-S95	2447296.66	1988 May 15 0345	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Wire	Krebs,pc	-
1989-S29	2447549.94	1989 Jan 23 1040:05	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	CCMOPS	-	-
1989-S35	2447561.63	1989 Feb 4 0303:04	Trident C-4	-	-	0.000	SDIO	MS	-	-	Tech	CCMOPS	-	-
1990-S69	2447974.68	1990 Mar 24 0416	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	nsf-koenn	Cleary95	-
1990-S70	2447974.50	1990 Mar 24	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1990-S71	2447974.50	1990 Mar 24	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1990-S72	2447974.50	1990 Mar 24	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1991-S88	2448334.50	1991 Mar 19	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	JCM	-	-
1991-S89	2448334.50	1991 Mar 19	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	JCM	-	-
1991-S106	2448386.50	1991 May 10	Trident C-4	-	FCET-39	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1991-S107	2448386.50	1991 May 10	Trident C-4	-	FCET-39	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1991-S189	2448386.50	1991 May 10	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1991-S190	2448386.50	1991 May 10	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1991-S191	2448427.25	1991 Jun 19 1800:00	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	nsf-koenn	-	-
1992-S35	2448720.50	1992 Apr 8	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1992-S36	2448720.50	1992 Apr 8	Trident C-4	-	-	0.000	USNSSP	MU	-	-	OT	Cleary95	-	-
1994-S24	2449440.25	1994 Mar 28 1806:55	Trident C-4	-	FCET-44	0.000	USNSSP	MU	-	-	OT	nsf-koenn	Cleary95	-
1994-S25	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	0.000	USNSSP	MU	-	-	OT	nsf-koenn	Cleary95	-
1994-S26	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	0.000	USNSSP	MU	-	-	OT	nsf-koenn	Cleary95	-
1994-S27	2449440.25	1994 Mar 28 1807?	Trident C-4	-	FCET-44	0.000	USNSSP	MU	-	-	OT	nsf-koenn	Cleary95	-
1994-S79	2449648.34	1994 Oct 22 2009:03	Trident C-4	-	DASO-33	0.000	USNSSP	MF	S2	-	OT	nsf-koenn	Cleary95	-
1994-S89	2449694.17	1994 Dec 7 1611:40	Trident C-4	-	FCET-45	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S90	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S97	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	0.000	USNSSP	MS	-	-	OT	nsf-koenn	-	-
1994-S98	2449694.17	1994 Dec 7 1611:57	Trident C-4	-	FCET-45	0.000	USNSSP	MS	-	-	OT	nsf-koenn	-	-
1995-S16	2449783.34	1995 Mar 6 2007:32	Trident C-4	-	FCET-46	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S17	2449783.34	1995 Mar 6 2007:49	Trident C-4	-	FCET-46	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S18	2449783.38	1995 Mar 6 2103:25	Trident C-4	-	FCET-46	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S89	2449783.38	1995 Mar 6 2103:42	Trident C-4	-	FCET-46	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S19	2449791.20	1995 Mar 14 1650:01	Trident C-4	-	FCET-46A	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S20	2449791.20	1995 Mar 14 1650:20	Trident C-4	-	FCET-46A	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S71	2450020.38	1995 Oct 29 2100:03	Trident C-4	-	DASO-34	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1996-S21	2450220.41	1996 May 16 2148:55	Trident C-4	-	FCET-47	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1996-S22	2450220.41	1996 May 16 2149:12	Trident C-4	-	FCET-47	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1996-S23	2450220.45	1996 May 16 2250:13	Trident C-4	-	FCET-47	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1996-S24	2450220.45	1996 May 16 2250:31	Trident C-4	-	FCET-47	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1996-S58	2450359.44	1996 Oct 2 2230:03	Trident C-4	-	DASO-35	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1997-S14	2450500.34	1997 Feb 20 2011:31	Trident C-4	-	FCET-48	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1997-S15	2450500.34	1997 Feb 20 2011:49	Trident C-4	-	FCET-48	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1997-S16	2450500.39	1997 Feb 20 2124:47	Trident C-4	-	FCET-48	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1997-S17	2450500.39	1997 Feb 20 2125:04	Trident C-4	-	FCET-48	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1998-S10	2450855.40	1998 Feb 10 2133:09	Trident C-4	-	FCET-49	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1998-S11	2450855.40	1998 Feb 10 2133:26	Trident C-4	-	FCET-49	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1998-S12	2450855.44	1998 Feb 10 2236:47	Trident C-4	-	FCET-49	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1998-S13	2450855.44	1998 Feb 10 2237:04	Trident C-4	-	FCET-49	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1999-S14	2451261.41	1999 Mar 23 2146:10	Trident C-4	-	FCET-50	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1999-S15	2451261.41	1999 Mar 23 2146:28	Trident C-4	-	FCET-50	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1999-S16	2451262.51	1999 Mar 25 0017:05	Trident C-4	-	FCET-50	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
1999-S17	2451262.51	1999 Mar 25 0017:22	Trident C-4	-	FCET-50	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.chinfo.navy.mil	-
2000-S08	2451601.33	2000 Feb 26 2000	Trident C-4	-	FCET-51	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2000-S09	2451601.33	2000 Feb 26 2000	Trident C-4	-	FCET-51	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2000-S10	2451601.45	2000 Feb 26 2243	Trident C-4	-	FCET-51	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2000-S11	2451601.45	2000 Feb 26 2243	Trident C-4	-	FCET-51	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2001-S54	2452253.34	2001 Dec 9 2011	Trident C-4	-	FCET-52	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2001-S55	2452253.34	2001 Dec 9 2011	Trident C-4	-	FCET-52	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-
2001-S56	2452253.40	2001 Dec 9 2136	Trident C-4	-	FCET-52	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-
2001-S57	2452253.40	2001 Dec 9 2136	Trident C-4	-	FCET-52	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-
2001-S60	2452262.34	2001 Dec 18 2011	Trident C-4	-	FCET-53	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-
2001-S61	2452262.34	2001 Dec 18 2011	Trident C-4	-	FCET-53	0.000	USNSSP	MF	U	-	OT	nsf-koenn	LMSC	-
2001-S62	2452262.42	2001 Dec 18 2204	Trident C-4	-	FCET-53	0.000	USNSSP	MS	-	-	OT	nsf-koenn	LMSC	-
2001-S63	2452262.42	2001 Dec 18 2204	Trident C-4	-	FCET-53	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2010-S12	2455228.49	2010 Jan 31 2339	LV-2	-	-	0.000	MDA	MS	-	-	Target	www.mda.mil	-	-
2010-S76	2455546.33	2010 Dec 15 1957?	LV-2	-	-	0.000	MDA	MS	-	-	Target	Wire	www.mda.mil	-
2011-S12	2455666.79	2011 Apr 15 0652	LV-2	-	-	0.000	MDA	MS	-	-	Target	Wire	www.mda.mil	-
2013-S47	2456479.27	2013 Jul 5 1830	LV-2	-	GBI Target	0.000	MDA	MS	-	MDA/	Target	Wire	-	-
2014-S32	2456831.28	2014 Jun 22 1849?	LV-2	-	GBI Target	0.000	MDA	MS	-	MDA/	Target	Wire	-	-
2017-S36	2457904.30	2017 May 30 1910?	ICBM-T2	-	-	0.000	MDA	MS	-	-	Target	Wire	-	-
2019-S10	2458568.22	2019 Mar 25 1720?	ICBM-T2	?	GBI Target	0.000	MDA	MS	-	-	Target	Wire	-	-
2020-S40	2459170.74	2020 Nov 17 0550	ICBM-T2	?	GBI Target	0.000	MDA	MS	-	-	Target	Wire	-	-
2021-S28	2459363.50	2021 May 29	MRBM-T3c2	-	Aegis FTM-31E1 Tgt	0.000	MDA	MS	-	-	Target	Wire	-	-
2021-A25	2459508.50	2021 Oct 21	ICBM-T1	?	CPS FT-3	0.000	SMDC	MF	U	-	Hypersonic	Wire	-	-
2023-S12	2460033.50	2023 Mar 30	MRBM-T3c2	-	Aegis FTM-31E1a Tgt	0.000	MDA	MS	-	MDA/	Target	mda.mil	-	-
2024-S11	2460397.50	2024 Mar 28	MRBM-T3c2	-	Aegis FTM-32	0.000	MDA	MS	-	MDA/	Target	mda.mil	northropgrumman.com	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-S43	2446811.14	1987 Jan 15 1525	Trident D-5	-	D5X-1	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S61	2446872.23	1987 Mar 17 1725	Trident D-5	-	D5X-2	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S81	2446916.36	1987 Apr 30 2044	Trident D-5	-	D5X-3	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S99	2446959.45	1987 Jun 12 2245	Trident D-5	-	D5X-5	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S110	2446997.36	1987 Jul 20 2045	Trident D-5	-	D5X-6	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S141	2447047.42	1987 Sep 8 2201	Trident D-5	-	D5X-4	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S150	2447075.21	1987 Oct 6 1702	Trident D-5	-	D5X-8	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1987-S178	2447141.06	1987 Dec 11 1326	Trident D-5	-	D5X-10	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-M01	2447181.92	1988 Jan 21 1008	Trident D-5	-	D5X-9	R&D Mk 5	-	-	-	CCA	LC46	-	-	80?	-	-
1988-S78	2447258.71	1988 Apr 7 0459	Trident D-5	-	D5X-11	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-S84	2447279.70	1988 Apr 28 0452	Trident D-5	-	D5X-12	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-S96	2447307.59	1988 May 26 0207	Trident D-5	-	D5X-7	R&D Mk 4	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-A06	2447350.44	1988 Jul 7 2238	Trident D-5	-	D5X-13	R&D Mk 5	-	-	-	CCA	LC46	-	-	20?	-	-
1988-S111	2447401.34	1988 Aug 27 2004	Trident D-5	-	D5X-14	R&D Mk 5	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-A07	2447424.24	1988 Sep 19 1744	Trident D-5	-	D5X-15	R&D Mk 5	-	-	-	CCA	LC46	-	-	20?	-	-
1988-S133	2447473.19	1988 Nov 7 1630	Trident D-5	-	D5X-18	R&D	-	-	-	CCA	LC46	-	-	1000?	-	-
1988-S146	2447512.03	1988 Dec 16 1249	Trident D-5	-	D5X-17	R&D	-	-	-	CCA	LC46	-	-	1000?	-	-
1989-S27	2447535.95	1989 Jan 9 1052	Trident D-5	-	D5X-19	R&D	-	-	-	CCA	LC46	-	-	1000?	-	-
1989-S31	2447552.88	1989 Jan 26 0907:00	Trident D-5	-	D5X-20	R&D	-	-	-	CCA	LC46	-	-	1000?	-	-
1989-A02	2447607.18	1989 Mar 21 1620	Trident D-5	-	-	PEM-1	-	-	SSBN-734	ETR	D4	-	-	0	-	-
1989-S81	2447741.13	1989 Aug 2 1500:03	Trident D-5	-	-	PEM-2	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
1989-A06	2447754.38	1989 Aug 15 2110:00	Trident D-5	-	-	PEM-4	-	-	SSBN-734	ETR	SLBM	-	-	0?	-	-
1989-S110	2447865.15	1989 Dec 4 1540:03	Trident D-5	-	-	PEM-5	-	-	SSBN-734	ETR	D4	-	-	1000?	-	-
1989-S113	2447874.09	1989 Dec 13 1415:03	Trident D-5	-	-	PEM-11	-	-	SSBN-734	ETR	D4	-	-	1000?	-	-
1989-S114	2447876.09	1989 Dec 15 1415	Trident D-5	-	-	PEM-3	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
1990-S26	2447907.20	1990 Jan 15 1645:07	Trident D-5	-	-	PEM-7	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S27	2447908.17	1990 Jan 16 1600:03	Trident D-5	-	-	PEM-6	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S37	2447935.09	1990 Feb 12 1410	Trident D-5	-	-	DASO-1	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S38	2447935.09	1990 Feb 12 1410:20	Trident D-5	-	-	PEM-8	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S62	2447962.66	1990 Mar 12 0345:03	Trident D-5	-	-	DASO-3	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1990-S134	2448161.16	1990 Sep 26 1555	Trident D-5	-	-	DASO-4	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1990-S148	2448199.00	1990 Nov 3 1153	Trident D-5	-	-	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S149	2448199.03	1990 Nov 3 1238:11	Trident D-5	-	-	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S150	2448199.07	1990 Nov 3 1337	Trident D-5	-	-	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S151	2448199.07	1990 Nov 3 1337	Trident D-5	-	-	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1990-S161	2448224.33	1990 Nov 28 2000:03	Trident D-5	-	-	DASO-5	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1991-S96	2448362.42	1991 Apr 15 2210:03	Trident D-5	-	-	DASO-6	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1991-S124	2448466.50	1991 Jul 29	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S125	2448466.50	1991 Jul 29	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S126	2448466.50	1991 Jul 29	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S127	2448466.50	1991 Jul 29	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S138	2448499.48	1991 Aug 30 2332:03	Trident D-5	-	-	DASO-7	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1991-S165	2448565.36	1991 Nov 4 2042	Trident D-5	-	-	DASO-8	-	-	SSBN-737	ETR	D4	-	-	1000?	-	-
1991-S167	2448571.50	1991 Nov 11	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S168	2448571.50	1991 Nov 11	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S169	2448571.50	1991 Nov 11	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1991-S170	2448571.50	1991 Nov 11	Trident D-5	-	-	CET	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1992-S18	2448674.50	1992 Feb 22	Trident D-5	-	-	CET	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1992-S19	2448674.50	1992 Feb 22	Trident D-5	-	-	CET	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	-
1992-S20	2448674.50	1992 Feb 22	Trident D-5	-	-	CET	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	-
1992-S21	2448674.50	1992 Feb 22	Trident D-5	-	-	CET	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	-
1992-S52	2448791.50	1992 Jun 18	Trident D-5	-	CET	CET	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1992-S53	2448791.50	1992 Jun 18	Trident D-5	-	CET	CET	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1992-S54	2448791.50	1992 Jun 18	Trident D-5	-	CET	CET	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1992-S55	2448791.50	1992 Jun 18	Trident D-5	-	CET	CET	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1992-S67	2448832.50	1992 Jul 29	Trident D-5	-	-	DASO-9	-	-	SSBN-738	ETR	D4	-	-	1000?	-	-
1992-S68	2448838.50	1992 Aug 4	Trident D-5	-	CET	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S69	2448838.50	1992 Aug 4	Trident D-5	-	CET	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S70	2448838.50	1992 Aug 4	Trident D-5	-	CET	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S71	2448838.50	1992 Aug 4	Trident D-5	-	CET	CET	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S80	2448868.50	1992 Sep 3	Trident D-5	-	CET	CET	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1992-S81	2448868.50	1992 Sep 3	Trident D-5	-	CET	CET	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1992-S82	2448868.50	1992 Sep 3	Trident D-5	-	CET	CET	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1992-S83	2448868.50	1992 Sep 3	Trident D-5	-	CET	CET	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1992-S88	2448914.50	1992 Oct 19	Trident D-5	-	DASO-10	DASO-10	-	-	SSBN-738	ETR	D4	-	-	1000?	-	-
1992-S93	2448936.50	1992 Nov 10	Trident D-5	-	CET	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S94	2448936.50	1992 Nov 10	Trident D-5	-	CET	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S95	2448936.50	1992 Nov 10	Trident D-5	-	CET	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1992-S96	2448936.50	1992 Nov 10	Trident D-5	-	CET	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1993-S45	2449175.50	1993 Jul 7	Trident D-5	-	FCET-9	-	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1993-S46	2449175.50	1993 Jul 7	Trident D-5	-	FCET-9	-	-	-	SSBN-735	ETR	LP5	-	-	1000?	-	-
1993-S55	2449220.27	1993 Aug 20 1827	Trident D-5	-	DASO-11	-	-	-	SSBN-739	ETR	D4	-	-	1000?	-	-
1993-S70	2449309.50	1993 Nov 18	Trident D-5	-	DASO-12	PGW Test	-	-	SSBN-739	ETR	D4	-	-	1000?	-	-
1994-S04	2449372.54	1994 Jan 20 0103:52	Trident D-5	-	FCET-10	-	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1994-S05	2449372.54	1994 Jan 20 0104:09	Trident D-5	-	FCET-10	-	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1994-S06	2449372.60	1994 Jan 20 0221:06	Trident D-5	-	FCET-10	-	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1994-S07	2449372.60	1994 Jan 20 0222:23	Trident D-5	-	FCET-10	-	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1994-S35	2449499.43	1994 May 26 2215:03	Trident D-5	-	DASO-1	-	-	-	UK-S28	ETR	D4	-	-	1000?	-	-
1994-S39	2449523.63	1994 Jun 20 0300:03	Trident D-5	-	DASO-2	-	-	-	UK-S28	ETR	D4	-	-	1000?	-	-
1994-S86	2449687.53	1994 Dec 1 0045:03?	Trident D-5	-	DASO-13	-	-	-	SSBN-740	ETR	D4	-	-	1000?	-	-
1995-S02	2449737.45	1995 Jan 19 2248:56	Trident D-5	-	FCET-12	-	-	-	SSBN-739	ETR	LP5	-	-	1000?	-	-
1995-S03	2449737.45	1995 Jan 19 2249:12	Trident D-5	-	FCET-12	-	-	-	SSBN-739	ETR	LP5	-	-	1000?	-	-
1995-S29	2449817.35	1995 Apr 9 2020	Trident D-5	-	FCET-13	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1995-S30	2449817.35	1995 Apr 9 2020	Trident D-5	-	FCET-13	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1995-S50	2449923.44	1995 Jul 24 2230:03	Trident D-5	-	DASO-3	-	-	-	UK-S29	ETR	SLBM	-	-	1000?	-	-
1995-S56	2449952.43	1995 Aug 22 2225:04	Trident D-5	-	DASO-4	-	-	-	UK-S29	ETR	SLBM	-	-	1000?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1995-S85	2450059.37	1995 Dec 7 2047:00	Trident D-5	-	DASO-14	ENTB RV?	-	-	SSBN-741	ETR	LP5	-	-	1000?	-	-
1996-S17	2450195.40	1996 Apr 21 2136:06	Trident D-5	-	FCET-14	-	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
1996-S18	2450195.40	1996 Apr 21 2136:23	Trident D-5	-	FCET-14	-	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
1996-S44	2450284.33	1996 Jul 19 2001:01	Trident D-5	-	FCET-15	-	-	-	SSBN-735	ETR	SLBM	-	-	1000?	-	-
1996-S45	2450284.33	1996 Jul 19 2001:17	Trident D-5	-	FCET-15	-	-	-	SSBN-735	ETR	SLBM	-	-	1000?	-	-
1996-S65	2450385.31	1996 Oct 28 1930:20	Trident D-5	-	FCET-16	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1996-S66	2450385.31	1996 Oct 28 1930:37	Trident D-5	-	FCET-16	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
1997-S26	2450525.44	1997 Mar 17 2226:28	Trident D-5	-	FCET-17	-	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1997-S27	2450525.51	1997 Mar 18 0016	Trident D-5	-	FCET-17	-	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1997-S43	2450599.44	1997 May 30 2230:04	Trident D-5	-	DASO-15	-	-	-	SSBN-742	ETR	D4	-	-	1000?	-	-
1997-S67	2450732.34	1997 Oct 10 2005:03	Trident D-5	-	DASO-5	-	-	-	UK-S30	ETR	LP5	-	-	1000?	-	-
1997-S68	2450731.50	1997 Oct 10	Trident D-5	-	DASO-6	-	-	-	UK-S30	ETR	LP5	-	-	1000?	-	-
1997-S78	2450800.50	1997 Dec 18	Trident D-5	-	DASO-16	- (77ss)	-	-	SSBN-743	ETR	SLBM	-	-	1000?	-	-
1998-S25	2450880.49	1998 Mar 7 2342:31	Trident D-5	-	FCET-18	- 78?	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1998-S26	2450880.49	1998 Mar 7 2342:47	Trident D-5	-	FCET-18	- 79?	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1998-S28	2450883.48	1998 Mar 10 2333:10	Trident D-5	-	FCET-19	- 80?	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1998-S29	2450883.55	1998 Mar 11 0115:58	Trident D-5	-	FCET-19	- 81?	-	-	SSBN-736	ETR	LP5	-	-	1000?	-	-
1999-S06	2451219.34	1999 Feb 9 2010:00	Trident D-5	-	FCET-20	- to ASC C-25	-	-	SSBN-740	ETR	LP5	-	-	1000?	-	-
1999-S07	2451219.34	1999 Feb 9 2010:15	Trident D-5	-	FCET-20	- to ASC C-25	-	-	SSBN-740	ETR	LP5	-	-	1000?	-	-
1999-S27	2451295.32	1999 Apr 26 1947:31	Trident D-5	-	FCET-21	- to ASC C-17	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1999-S28	2451295.32	1999 Apr 26 1947:47	Trident D-5	-	FCET-21	- to ASC C-17	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
1999-S72	2451493.35	1999 Nov 10 2023:56	Trident D-5	-	FCET-22	-	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
1999-S73	2451493.41	1999 Nov 10 2150	Trident D-5	-	FCET-22	- (87ss)	-	-	SSBN-737	ETR	LP5	-	-	1000?	-	-
2000-S20	2451665.32	2000 Apr 30 1940:32	Trident D-5	-	FCET-23	- (88ss)	-	-	SSBN-742	ETR	LP5	-	-	1000?	-	-
2000-S21	2451664.50	2000 Apr 30	Trident D-5	-	FCET-23	- (89ss)	-	-	SSBN-742	ETR	SLBM	-	-	1000?	-	-
2000-S52	2451809.37	2000 Sep 21 2050	Trident D-5	-	DASO-7	- (90ss)	-	-	UK-S31	ETR	SLBM	-	-	1000?	-	-
2001-S21	2452043.50	2001 May 14	Trident D-5	-	FCET-24	- (91ss)	-	-	SSBN-737	ETR	SLBM	-	-	1000?	-	-
2001-S28	2452086.47	2001 Jun 25 2316	Trident D-5	-	FCET-25	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2001-S29	2452086.47	2001 Jun 25 2316	Trident D-5	-	FCET-25	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2001-S30	2452086.55	2001 Jun 26 0113	Trident D-5	-	FCET-25	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2002-S17	2452350.41	2002 Mar 16 2150	Trident D-5	-	DASO-17	- (95ss)	-	-	SSBN-732	ETR	D4	-	-	1000?	-	-
2002-S25	2452389.35	2002 Apr 24 2023	Trident D-5	-	FCET-26	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2002-S26	2452388.50	2002 Apr 24	Trident D-5	-	FCET-26	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2002-S27	2452389.50	2002 Apr 25	Trident D-5	-	FCET-27	-	-	-	SSBN-743	ETR	LP5	-	-	1000?	-	-
2002-S68	2452570.40	2002 Oct 22 2131	Trident D-5	-	FCET-28	-	-	-	SSBN-742	ETR	LP5	-	-	1000?	-	-
2002-S77	2452620.33	2002 Dec 11 1950	Trident D-5	-	DASO-18	-	-	-	SSBN-733	ETR	D4	-	-	1000?	-	-
2003-S18	2452753.28	2003 Apr 23 1841	Trident D-5	-	FCET-29	-	-	-	SSBN-741	ETR	LP5	-	-	1000?	-	-
2003-S19	2452753.36	2003 Apr 23 2043	Trident D-5	-	FCET-29	-	-	-	SSBN-741	ETR	LP5	-	-	1000?	-	-
2003-S44	2452949.38	2003 Nov 5 2110:02	Trident D-5	-	FCET-30	-	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
2003-S45	2452949.47	2003 Nov 5 2322:43	Trident D-5	-	FCET-30	- (104ss)	-	-	SSBN-738	ETR	LP5	-	-	1000?	-	-
2004-S09	2453061.52	2004 Feb 26 0031:20	Trident D-5	-	FCET-31	-	-	-	SSBN-739	ETR	LP5	-	-	1000?	-	-
2004-S10	2453061.57	2004 Feb 26 0133:51	Trident D-5	-	FCET-31	-	-	-	SSBN-739	ETR	LP5	-	-	1000?	-	-
2004-S76	2453313.50	2004 Nov 4	Trident D-5	-	FCET-32	- (107ss)	-	-	SSBN-733	WTR	LP5	-	-	1000?	-	-
2004-S77	2453313.50	2004 Nov 4	Trident D-5	-	FCET-32	- (108ss)	-	-	SSBN-733	WTR	LP5	-	-	1000?	-	-
2005-S10	2453431.67	2005 Mar 2 0400:13	Trident D-5	-	FCET-33	Short range test	-	-	SSBN-734	ETR	LP5	-	-	1000?	2200	-
2005-S11	2453431.71	2005 Mar 2 0509:16	Trident D-5	-	FCET-33	-	-	-	SSBN-734	ETR	LP5	-	-	1000?	-	-
2005-S44	2453654.38	2005 Oct 10 2110:08	Trident D-5	-	DASO-8	- (111ss)	-	-	UK-S28	ETR	D4	-	-	1000?	-	-
2005-S61	2453370.50	2005?	Trident D-5	-	-	-	-	-	SSBN-UNK	WTR?	LP5	-	-	1000?	-	-
2005-S62	2453714.29	2005 Dec 9 1902:42	Trident D-5	-	FCET-34	-	-	-	SSBN-740	ETR	LP5	-	-	1000?	-	-
2006-S70	2453864.50	2006 May 9	Trident D-5	-	FCET-35	W76 LEP?	-	-	SSBN-732	WTR	LP5	-	-	1000?	-	KMR
2006-S71	2453864.50	2006 May 9	Trident D-5	-	FCET-35	W76 LEP?	-	-	SSBN-732	WTR	LP5	-	-	1000?	-	KMR
2006-S72	2454060.50	2006 Nov 21	Trident D-5	-	FCET-36	W76 (116ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2006-S73	2454060.50	2006 Nov 21	Trident D-5	-	FCET-36	W76 (117ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2007-S38	2454235.50	2007 May 15	Trident D-5	-	FCET-37	-	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
2007-S39	2454235.50	2007 May 15	Trident D-5	-	FCET-37	-	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
2007-S72	2454433.50	2007 Nov 29	Trident D-5	-	DASO-19	- (120ss)	-	-	SSBN-730	WTR	LP5	-	-	1000?	-	-
2008-S21	2454594.50	2008 May 8	Trident D-5	-	FCET-38	-	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	-
2008-S23	2454594.50	2008 May 8	Trident D-5	-	FCET-38	- (122ss)	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	-
2008-S40	2454703.50	2008 Aug 25	Trident D-5	-	FCET-39	- (123ss)	-	-	SSBN-743	WTR	LP5	-	-	1000?	-	-
2008-S41	2454703.50	2008 Aug 25	Trident D-5	-	FCET-39	- (124ss)	-	-	SSBN-743	WTR	LP5	-	-	1000?	-	-
2008-S75	2454800.50	2008 Dec	Trident D-5	-	FCET-40	- (125ss)	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
2009-S10	2454875.50	2009 Feb 13	Trident D-5	-	DASO-20	- (126ss)	-	-	SSBN-731	WTR	LP5	-	-	1000?	-	-
2009-S36	2454977.50	2009 May 26	Trident D-5	-	DASO-9	- (127ss)	-	-	UK-S29	ETR	SLBM	-	-	1000?	-	-
2009-S52	2455077.50	2009 Sep 3	Trident D-5	-	FCET-41	- (128ss)	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	-
2009-S53	2455078.50	2009 Sep 4	Trident D-5	-	FCET-41	- (129ss)	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	-
2009-S09	2455184.50	2009 Dec 19	Trident D-5	-	DASO-21	- (130ss)	-	-	SSBN-732	ETR	SLBM	-	-	1000?	-	-
2010-S38	2455355.50	2010 Jun 8	Trident D-5	-	FCET-42	- (131ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2010-S39	2455355.50	2010 Jun 8	Trident D-5	-	FCET-42	- (132ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2010-S40	2455356.50	2010 Jun 9	Trident D-5	-	FCET-43	- (133ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2010-S41	2455356.50	2010 Jun 9	Trident D-5	-	FCET-43	- (134ss)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2011-S07	2455622.38	2011 Mar 1 2100	Trident D-5	-	DASO-22	- (135ss/136s)	-	-	SSBN-733	WTR	LP13	-	-	1000?	-	WAKE
2011-A40	2455561.50	2011	Trident D-5	-	FCET-44	- -	-	-	SSBN-UNK	WTR	LP5	-	-	0?	-	-
2012-S08	2455979.50	2012 Feb 22	Trident D-5	-	DASO-23	- (137s)	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
2012-S23	2455986.50	2012 Mar?	Trident D-5	-	FCET-45	- (138s)	-	-	SSBN-UNK	WTR?	LP5	-	-	1000?	-	-
2012-S24	2456031.50	2012 Apr 14	Trident D-5	-	FCET-46	- (139s)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2012-S25	2456031.50	2012 Apr 14	Trident D-5	-	FCET-46	- (140s)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2012-S26	2456033.50	2012 Apr 16	Trident D-5	-	FCET-47	- (141s)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2012-S27	2456033.50	2012 Apr 16	Trident D-5	-	FCET-47	- (142s)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2012-S75	2456223.50	2012 Oct 23	Trident D-5	-	DASO-10	- (143s)	-	-	UK-S30	ETR	SLBM	-	-	1000?	-	-
2013-S80	2456382.50	2013 Apr?	Trident D-5	-	DASO-24	- (144s)	-	-	SSBN-735?	WTR?	LP5	-	-	1000?	-	-
2013-S81	2456546.38	2013 Sep 10 2110?	Trident D-5	-	FCET-48	- (145s)	-	-	SSBN-734	ETR	SLBM	-	-	1800?	9800?	AORS1
2013-S82	2456546.38	2013 Sep 10 2110?	Trident D-5	-	FCET-48	- (146s)	-	-	SSBN-734	ETR	SLBM	-	-	1800?	9800?	AORS1
2013-S83	2456547.50	2013 Sep 12	Trident D-5	-	FCET-49	- (147s)	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
2013-S84	2456547.50	2013 Sep 12	Trident D-5	-	FCET-49	- (148s)	-	-	SSBN-734	ETR	SLBM	-	-	1000?	-	-
2014-S29	2456810.50	2014 Jun 2	Trident D-5	-	DASO-25 D5LE	- (149s)	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	AORS1
2014-S30	2456810.50	2014 Jun 2	Trident D-5	-	DASO-25 D5LE	- (150s)	-	-	SSBN-736	ETR	SLBM	-	-	1000?	-	AORS1

							Launch										
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2014-S53	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	- (151s)	-	-	SSBN-743	WTR	SCL LP2	-	-	1000?	-	-
2014-S54	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	- (152s)	-	-	SSBN-743	WTR	SCL LP2	-	-	1000?	-	-
2014-S55	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	- (153s)	-	-	SSBN-743	WTR	SCL LP2?	-	-	1000?	-	-
2015-S13	2457075.50	2015 Feb 22	Trident D-5	-	FCET-51	- (154s)	-	-	SSBN-735	WTR	SCL LP2?	-	-	1000?	-	-
2015-S14	2457075.50	2015 Feb 22	Trident D-5	-	FCET-51	- (155s)	-	-	SSBN-735	WTR	SCL LP2?	-	-	1000?	-	-
2015-S69	2457334.58	2015 Nov 8 0200	Trident D-5	-	DASO-26	- (156s)	-	-	SSBN-737	WTR	SCL LP2	-	-	1000?	-	KMR?
2015-S70	2457336.33	2015 Nov 9 2000?	Trident D-5	-	DASO-26	- (157s)	-	-	SSBN-737	WTR	SCL LP2	-	-	1000?	-	KMR
2016-S20	2457461.50	2016 Mar 14	Trident D-5	-	FCET-52	- (158s)	-	-	SSBN-UNK	ETR	SLBM	-	-	1000?	-	AORS1
2016-S21	2457462.50	2016 Mar 15	Trident D-5	-	FCET-52	- (159s)	-	-	SSBN-UNK	ETR	SLBM	-	-	1000?	-	AORS1
2016-S22	2457463.50	2016 Mar 16	Trident D-5	-	FCET-52	- (160s)	-	-	SSBN-UNK	ETR	SLBM	-	-	1000?	-	AORS1
2016-A50	2457559.50	2016 Jun 20	Trident D-5	-	DASO-11?	- -	-	-	UK-S31	ETR	SLBM	-	-	10?	-	AORS1
2016-S58	2457631.50	2016 Aug 31	Trident D-5	-	DASO-27	- (161s)	-	-	SSBN-738	ETR	SLBM	-	-	1000?	-	-
2017-S11	2457798.98	2017 Feb 14 1130	Trident D-5	-	FCET-53	- (162s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	WAKE
2017-S12	2457799.10	2017 Feb 14 1420	Trident D-5	-	FCET-53	- (163s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	WAKE
2017-S13	2457799.50	2017 Feb 15?	Trident D-5	-	FCET-53	- (164s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	WAKE
2017-S14	2457800.50	2017 Feb 16?	Trident D-5	-	FCET-53	- (165s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	WAKE
2018-S16	2458204.61	2018 Mar 27 0240?	Trident D-5	-	DASO-28	- (166s)	-	-	SSBN-739	WTR	SCL LP2?	-	-	1000?	-	GUAM E BOA
2018-S17	2458204.61	2018 Mar 27 0240?	Trident D-5	-	DASO-28	- (167s)	-	-	SSBN-739	WTR	SCL LP2?	-	-	1000?	-	GUAM E BOA
2018-S89	2458118.50	2018?	Trident D-5	-	FCET-54	- (168s)	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
2018-S90	2458118.50	2018?	Trident D-5	-	FCET-54	- (169s)	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
2018-S91	2458118.50	2018?	Trident D-5	-	FCET-54	- (170s)	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
2018-S92	2458118.50	2018?	Trident D-5	-	FCET-54	- (171s)	-	-	SSBN-UNK	WTR	LP5	-	-	1000?	-	-
2019-S22	2458612.50	2019 May 9	Trident D-5	-	DASO-29	- (172s)	-	-	SSBN-740	ETR	SLBM	-	-	1800?	9800?	AORS3
2019-S52	2458730.50	2019 Sep 4	Trident D-5	-	CET	- (173s)	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	GUAM
2019-S53	2458730.50	2019 Sep 4	Trident D-5	-	CET	- (174s)	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	GUAM
2019-S54	2458732.50	2019 Sep 6	Trident D-5	-	CET	- (175s)	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	GUAM
2019-S55	2458732.50	2019 Sep 6	Trident D-5	-	CET	- (176s)	-	-	SSBN-739	WTR	LP5	-	-	1000?	-	GUAM
2020-S14	2458891.50	2020 Feb 12	Trident D-5	-	DASO-30 D5LE	- (177s)	-	-	SSBN-741	WTR	LP5	-	-	1800?	9800?	WAKE
2020-S16	2458895.50	2020 Feb 16	Trident D-5	-	DASO-30 D5LE	- (178s)	-	-	SSBN-741	WTR	LP5	-	-	1800?	9800?	WAKE?
2021-S16	2459255.48	2021 Feb 9 2330	Trident D-5	-	CET	- (179s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	8400?	AORS4
2021-S63	2459255.50	2021 Feb 10	Trident D-5	-	CET	- (180s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	8400?	AORS4
2021-S64	2459256.50	2021 Feb 11	Trident D-5	-	CET	- (181s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	8400?	AORS4
2021-S65	2459256.50	2021 Feb 11	Trident D-5	-	CET	- (182s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	8400?	AORS4
2021-S66	2459474.50	2021 Sep 17	Trident D-5	-	DASO-31 D5LE	- (183s)	-	-	SSBN-742	ETR	SLBM	-	-	1800?	8400?	AORS4
2021-S67	2459474.50	2021 Sep 17	Trident D-5	-	DASO-31 D5LE	- (184s)	-	-	SSBN-742	ETR	SLBM	-	-	1800?	8400?	AORS4
2022-S50	2459745.50	2022 Jun 15	Trident D-5	-	CET?	- (185s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	GUAM
2022-S51	2459745.50	2022 Jun 15	Trident D-5	-	CET?	- (186s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	GUAM
2022-S52	2459747.50	2022 Jun 17	Trident D-5	-	CET?	- (187s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	GUAM
2022-S53	2459747.50	2022 Jun 17	Trident D-5	-	CET?	- (188s)	-	-	SSBN-737	WTR	LP14	-	-	1000?	-	GUAM
2023-S39	2460110.50	2023 Jun 15?	Trident D-5	-	FCET	- (189s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	10600?	AORS5
2023-S40	2460110.50	2023 Jun 15?	Trident D-5	-	FCET	- (190s)	-	-	SSBN-736	ETR	LP6	-	-	1800?	10600?	AORS5
2023-S41	2460215.38	2023 Sep 27 2110	Trident D-5	-	DASO-32 D5LE	- (191s)	-	-	SSBN-743	WTR	LP13	-	-	1000?	-	GUAM?
2024-A01	2460339.50	2024 Jan 30	Trident D-5	-	UK DASO	- -	-	-	UK-S28	ETR	LP7	-	-	1?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-S43	2446811.14	1987 Jan 15 1525	Trident D-5	-	D5X-1	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S61	2446872.23	1987 Mar 17 1725	Trident D-5	-	D5X-2	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S81	2446916.36	1987 Apr 30 2044	Trident D-5	-	D5X-3	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S99	2446959.45	1987 Jun 12 2245	Trident D-5	-	D5X-5	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S110	2446997.36	1987 Jul 20 2045	Trident D-5	-	D5X-6	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S141	2447047.42	1987 Sep 8 2201	Trident D-5	-	D5X-4	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S150	2447075.21	1987 Oct 6 1702	Trident D-5	-	D5X-8	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1987-S178	2447141.06	1987 Dec 11 1326	Trident D-5	-	D5X-10	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-M01	2447181.92	1988 Jan 21 1008	Trident D-5	-	D5X-9	0.000	USNSSP	MF	U	-	Test	CCMOPS	-	-
1988-S78	2447258.71	1988 Apr 7 0459	Trident D-5	-	D5X-11	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-S84	2447279.70	1988 Apr 28 0452	Trident D-5	-	D5X-12	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-S96	2447307.59	1988 May 26 0207	Trident D-5	-	D5X-7	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-A06	2447350.44	1988 Jul 7 2238	Trident D-5	-	D5X-13	0.000	USNSSP	MF	U	-	Test	CCMOPS	-	-
1988-S111	2447401.34	1988 Aug 27 2004	Trident D-5	-	D5X-14	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-A07	2447424.24	1988 Sep 19 1744	Trident D-5	-	D5X-15	0.000	USNSSP	MF	U	-	Test	CCMOPS	-	-
1988-S133	2447473.19	1988 Nov 7 1630	Trident D-5	-	D5X-18	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1988-S146	2447512.03	1988 Dec 16 1249	Trident D-5	-	D5X-17	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1989-S27	2447535.95	1989 Jan 9 1052	Trident D-5	-	D5X-19	0.000	USNSSP	MS	-	-	Test	CCMOPS	-	-
1989-S31	2447552.88	1989 Jan 26 0907:00	Trident D-5	-	D5X-20	0.000	USNSSP	MS	-	-	Test	CCMOPS	AWST890220-52	-
1989-A02	2447607.18	1989 Mar 21 1620	Trident D-5	-	-	0.000	USNSSP	MF	U	-	OT	CCMOPS	AWST090327-18	-
1989-S81	2447741.13	1989 Aug 2 1500:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	CCMOPS	-	-
1989-A06	2447754.38	1989 Aug 15 2110:00	Trident D-5	-	-	0.000	USNSSP	MF	U	-	OT	CCMOPS	-	-
1989-S110	2447865.15	1989 Dec 4 1540:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1989-S113	2447874.09	1989 Dec 13 1415:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1989-S114	2447876.09	1989 Dec 15 1415	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	AWST900101-40	Cleary95	-
1990-S26	2447907.20	1990 Jan 15 1645:07	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	AWST900122-36	-
1990-S27	2447908.17	1990 Jan 16 1600:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	AWST900122-36	-
1990-S37	2447935.09	1990 Feb 12 1410	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	AWST900219-19	-
1990-S38	2447935.09	1990 Feb 12 1410:20	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	AWST900219-19	-
1990-S62	2447962.66	1990 Mar 12 0345:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S134	2448161.16	1990 Sep 26 1555	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Wire	Cleary95	-
1990-S148	2448199.00	1990 Nov 3 1153	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S149	2448199.03	1990 Nov 3 1238:11	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S150	2448199.07	1990 Nov 3 1337	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S151	2448199.07	1990 Nov 3 1337	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1990-S161	2448224.33	1990 Nov 28 2000:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1991-S96	2448362.42	1991 Apr 15 2210:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	StarsStripes910417	Cleary95	-
1991-S124	2448466.50	1991 Jul 29	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S125	2448466.50	1991 Jul 29	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S126	2448466.50	1991 Jul 29	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S127	2448466.50	1991 Jul 29	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S138	2448499.48	1991 Aug 30 2332:03	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1991-S165	2448565.36	1991 Nov 4 2042	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Wire	Cleary95	-
1991-S167	2448571.50	1991 Nov 11	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S168	2448571.50	1991 Nov 11	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S169	2448571.50	1991 Nov 11	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1991-S170	2448571.50	1991 Nov 11	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S18	2448674.50	1992 Feb 22	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S19	2448674.50	1992 Feb 22	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S20	2448674.50	1992 Feb 22	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S21	2448674.50	1992 Feb 22	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S52	2448791.50	1992 Jun 18	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S53	2448791.50	1992 Jun 18	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S54	2448791.50	1992 Jun 18	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S55	2448791.50	1992 Jun 18	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S67	2448832.50	1992 Jul 29	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S68	2448838.50	1992 Aug 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S69	2448838.50	1992 Aug 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S70	2448838.50	1992 Aug 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S71	2448838.50	1992 Aug 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S80	2448868.50	1992 Sep 3	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S81	2448868.50	1992 Sep 3	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S82	2448868.50	1992 Sep 3	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S83	2448868.50	1992 Sep 3	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S88	2448914.50	1992 Oct 19	Trident D-5	-	DASO-10	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S93	2448936.50	1992 Nov 10	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S94	2448936.50	1992 Nov 10	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S95	2448936.50	1992 Nov 10	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1992-S96	2448936.50	1992 Nov 10	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1993-S45	2449175.50	1993 Jul 7	Trident D-5	-	FCET-9	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1993-S46	2449175.50	1993 Jul 7	Trident D-5	-	FCET-9	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1993-S55	2449220.27	1993 Aug 20 1827	Trident D-5	-	DASO-11	0.000	USNSSP	MS	-	-	OT	AP	-	-
1993-S70	2449309.50	1993 Nov 18	Trident D-5	-	DASO-12	0.000	USNSSP	MS	-	-	OT	Cleary95	-	-
1994-S04	2449372.54	1994 Jan 20 0103:52	Trident D-5	-	FCET-10	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S05	2449372.54	1994 Jan 20 0104:09	Trident D-5	-	FCET-10	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S06	2449372.60	1994 Jan 20 0221:06	Trident D-5	-	FCET-10	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S07	2449372.60	1994 Jan 20 0222:23	Trident D-5	-	FCET-10	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S35	2449499.43	1994 May 26 2215:03	Trident D-5	-	DASO-1	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S39	2449523.63	1994 Jun 20 0300:03	Trident D-5	-	DASO-2	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-
1994-S86	2449687.53	1994 Dec 1 0045:03?	Trident D-5	-	DASO-13	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S02	2449737.45	1995 Jan 19 2248:56	Trident D-5	-	FCET-12	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S03	2449737.45	1995 Jan 19 2249:12	Trident D-5	-	FCET-12	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S29	2449817.35	1995 Apr 9 2020	Trident D-5	-	FCET-13	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S30	2449817.35	1995 Apr 9 2020	Trident D-5	-	FCET-13	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary95	-
1995-S50	2449923.44	1995 Jul 24 2230:03	Trident D-5	-	DASO-3	0.000	RN	MS	-	-	OT	UKMOD-PR	Cleary95	-
1995-S56	2449952.43	1995 Aug 22 2225:04	Trident D-5	-	DASO-4	0.000	RN	MS	-	-	OT	nsf-koenn	Cleary95	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1995-S85	2450059.37	1995 Dec 7 2047:00	Trident D-5	-	DASO-14	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S17	2450195.40	1996 Apr 21 2136:06	Trident D-5	-	FCET-14	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S18	2450195.40	1996 Apr 21 2136:23	Trident D-5	-	FCET-14	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S44	2450284.33	1996 Jul 19 2001:01	Trident D-5	-	FCET-15	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S45	2450284.33	1996 Jul 19 2001:17	Trident D-5	-	FCET-15	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S65	2450385.31	1996 Oct 28 1930:20	Trident D-5	-	FCET-16	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1996-S66	2450385.31	1996 Oct 28 1930:37	Trident D-5	-	FCET-16	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1997-S26	2450525.44	1997 Mar 17 2226:28	Trident D-5	-	FCET-17	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary96	-
1997-S27	2450525.51	1997 Mar 18 0016	Trident D-5	-	FCET-17	0.000	USNSSP	MS	-	-	OT	nsf-koenn	BGlobe970412	-
1997-S43	2450599.44	1997 May 30 2230:04	Trident D-5	-	DASO-15	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.spaceline.org	-
1997-S67	2450732.34	1997 Oct 10 2005:03	Trident D-5	-	DASO-5	0.000	RN	MS	-	-	OT	nsf-koenn	www.spaceline.org	-
1997-S68	2450731.50	1997 Oct 10	Trident D-5	-	DASO-6	0.000	RN	MS	-	-	OT	www.spaceline.org	-	-
1997-S78	2450800.50	1997 Dec 18	Trident D-5	-	DASO-16	0.000	USNSSP	MS	-	-	OT	www.spaceline.org	-	-
1998-S25	2450880.49	1998 Mar 7 2342:31	Trident D-5	-	FCET-18	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1998-S26	2450880.49	1998 Mar 7 2342:47	Trident D-5	-	FCET-18	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1998-S28	2450883.48	1998 Mar 10 2333:10	Trident D-5	-	FCET-19	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Wire	-
1998-S29	2450883.55	1998 Mar 11 0115:58	Trident D-5	-	FCET-19	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Wire	-
1999-S06	2451219.34	1999 Feb 9 2010:00	Trident D-5	-	FCET-20	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1999-S07	2451219.34	1999 Feb 9 2010:15	Trident D-5	-	FCET-20	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1999-S27	2451295.32	1999 Apr 26 1947:31	Trident D-5	-	FCET-21	0.000	USNSSP	MS	-	-	OT	Cleary02	-	-
1999-S28	2451295.32	1999 Apr 26 1947:47	Trident D-5	-	FCET-21	0.000	USNSSP	MS	-	-	OT	Cleary02	-	-
1999-S72	2451493.35	1999 Nov 10 2023:56	Trident D-5	-	FCET-22	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
1999-S73	2451493.41	1999 Nov 10 2150	Trident D-5	-	FCET-22	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2000-S20	2451665.32	2000 Apr 30 1940:32	Trident D-5	-	FCET-23	0.000	USNSSP	MS	-	-	OT	LMSC	nsf-koenn	-
2000-S21	2451664.50	2000 Apr 30	Trident D-5	-	FCET-23	0.000	USNSSP	MS	-	-	OT	LMSC	-	-
2000-S52	2451809.37	2000 Sep 21 2050	Trident D-5	-	DASO-7	0.000	RN	MS	-	-	OT	Wire	nsf-koenn (2150Z)	-
2001-S21	2452043.50	2001 May 14	Trident D-5	-	FCET-24	0.000	USNSSP	MS	-	-	OT	LMSC	-	-
2001-S28	2452086.47	2001 Jun 25 2316	Trident D-5	-	FCET-25	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.orbireport.com	-
2001-S29	2452086.47	2001 Jun 25 2316	Trident D-5	-	FCET-25	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.orbireport.com	-
2001-S30	2452086.55	2001 Jun 26 0113	Trident D-5	-	FCET-25	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.orbireport.com	-
2002-S17	2452350.41	2002 Mar 16 2150	Trident D-5	-	DASO-17	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Ulrch	AWST020401-15
2002-S25	2452389.35	2002 Apr 24 2023	Trident D-5	-	FCET-26	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2002-S26	2452388.50	2002 Apr 24	Trident D-5	-	FCET-26	0.000	USNSSP	MS	-	-	OT	Cleary02	-	-
2002-S27	2452389.50	2002 Apr 25	Trident D-5	-	FCET-27	0.000	USNSSP	MS	-	-	OT	Cleary02	-	-
2002-S68	2452570.40	2002 Oct 22 2131	Trident D-5	-	FCET-28	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2002-S77	2452620.33	2002 Dec 11 1950	Trident D-5	-	DASO-18	0.000	USNSSP	MS	-	-	OT	nsf-koenn	Cleary02	-
2003-S18	2452753.28	2003 Apr 23 1841	Trident D-5	-	FCET-29	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2003-S19	2452753.36	2003 Apr 23 2043	Trident D-5	-	FCET-29	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2003-S44	2452949.38	2003 Nov 5 2110:02	Trident D-5	-	FCET-30	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2003-S45	2452949.47	2003 Nov 5 2322:43	Trident D-5	-	FCET-30	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2004-S09	2453061.52	2004 Feb 26 0031:20	Trident D-5	-	FCET-31	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2004-S10	2453061.57	2004 Feb 26 0133:51	Trident D-5	-	FCET-31	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2004-S76	2453313.50	2004 Nov 4	Trident D-5	-	FCET-32	0.000	USNSSP	MS	-	-	OT	ssp.navy.mil	NewHorizons6,1	-
2004-S77	2453313.50	2004 Nov 4	Trident D-5	-	FCET-32	0.000	USNSSP	MS	-	-	OT	ssp.navy.mil	NewHorizons6,1	-
2005-S10	2453431.67	2005 Mar 2 0400:13	Trident D-5	-	FCET-33	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2005-S11	2453431.71	2005 Mar 2 0509:16	Trident D-5	-	FCET-33	0.000	USNSSP	MS	-	-	OT	nsf-koenn	www.floridatoday.com	-
2005-S44	2453654.38	2005 Oct 10 2110:08	Trident D-5	-	DASO-8	0.000	RN	MS	-	-	OT	nsf-koenn	-	-
2005-S61	2453370.50	2005?	Trident D-5	-	-	0.000	USNSSP	MS	-	-	OT	Stats	-	-
2005-S62	2453714.29	2005 Dec 9 1902:42	Trident D-5	-	FCET-34	0.000	USNSSP	MS	-	-	OT	patrick.af.mil	-	-
2006-S70	2453864.50	2006 May 9	Trident D-5	-	FCET-35	0.000	USNSSP	MS	-	-	OT	SIPRI/Ulrich	www.nlus.us	-
2006-S71	2453864.50	2006 May 9	Trident D-5	-	FCET-35	0.000	USNSSP	MS	-	-	OT	SIPRI/Ulruch	-	-
2006-S72	2454060.50	2006 Nov 21	Trident D-5	-	FCET-36	0.000	USNSSP	MS	-	-	OT	patrick.af.mil	-	-
2006-S73	2454060.50	2006 Nov 21	Trident D-5	-	FCET-36	0.000	USNSSP	MS	-	-	OT	patrick.af.mil	-	-
2007-S38	2454235.50	2007 May 15	Trident D-5	-	FCET-37	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2007-S39	2454235.50	2007 May 15	Trident D-5	-	FCET-37	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2007-S72	2454433.50	2007 Nov 29	Trident D-5	-	DASO-19	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2008-S21	2454594.50	2008 May 8	Trident D-5	-	FCET-38	0.000	USNSSP	MS	-	-	OT	nasaspaceflight.com	-	-
2008-S23	2454594.50	2008 May 8	Trident D-5	-	FCET-38	0.000	USNSSP	MS	-	-	OT	nasaspaceflight.com	-	-
2008-S40	2454703.50	2008 Aug 25	Trident D-5	-	FCET-39	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2008-S41	2454703.50	2008 Aug 25	Trident D-5	-	FCET-39	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2008-S75	2454800.50	2008 Dec	Trident D-5	-	FCET-40	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2009-S10	2454875.50	2009 Feb 13	Trident D-5	-	DASO-20	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2009-S36	2454977.50	2009 May 26	Trident D-5	-	DASO-9	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2009-S52	2455077.50	2009 Sep 3	Trident D-5	-	FCET-41	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2009-S53	2455078.50	2009 Sep 4	Trident D-5	-	FCET-41	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2009-S09	2455184.50	2009 Dec 19	Trident D-5	-	DASO-21	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2010-S38	2455355.50	2010 Jun 8	Trident D-5	-	FCET-42	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2010-S39	2455355.50	2010 Jun 8	Trident D-5	-	FCET-42	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2010-S40	2455356.50	2010 Jun 9	Trident D-5	-	FCET-43	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2010-S41	2455356.50	2010 Jun 9	Trident D-5	-	FCET-43	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2011-S07	2455622.38	2011 Mar 1 2100	Trident D-5	-	DASO-22	0.000	USNSSP	MS	-	-	OT	facebook.com	-	-
2011-A40	2455561.50	2011	Trident D-5	-	FCET-44	0.000	USNSSP	MF	U	-	OT	nasaspaceflight.com	-	-
2012-S08	2455979.50	2012 Feb 22	Trident D-5	-	DASO-23	0.000	USNSSP	MS	-	-	OT	nasaspaceflight.com	-	-
2012-S23	2455986.50	2012 Mar?	Trident D-5	-	FCET-45	0.000	USNSSP	MS	-	-	OT	-	-	-
2012-S24	2456031.50	2012 Apr 14	Trident D-5	-	FCET-46	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2012-S25	2456031.50	2012 Apr 14	Trident D-5	-	FCET-46	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2012-S26	2456033.50	2012 Apr 16	Trident D-5	-	FCET-47	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2012-S27	2456033.50	2012 Apr 16	Trident D-5	-	FCET-47	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2012-S75	2456223.50	2012 Oct 23	Trident D-5	-	DASO-10	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2013-S80	2456382.50	2013 Apr?	Trident D-5	-	DASO-24	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2013-S81	2456546.38	2013 Sep 10 2110?	Trident D-5	-	FCET-48	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2013-S82	2456546.38	2013 Sep 10 2110?	Trident D-5	-	FCET-48	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2013-S83	2456547.50	2013 Sep 12	Trident D-5	-	FCET-49	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2013-S84	2456547.50	2013 Sep 12	Trident D-5	-	FCET-49	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2014-S29	2456810.50	2014 Jun 2	Trident D-5	-	DASO-25 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2014-S30	2456810.50	2014 Jun 2	Trident D-5	-	DASO-25 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2014-S53	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2014-S54	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2014-S55	2456913.04	2014 Sep 12 1300	Trident D-5	-	FCET-50	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2015-S13	2457075.50	2015 Feb 22	Trident D-5	-	FCET-51	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2015-S14	2457075.50	2015 Feb 22	Trident D-5	-	FCET-51	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2015-S69	2457334.58	2015 Nov 8 0200	Trident D-5	-	DASO-26	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2015-S70	2457336.33	2015 Nov 9 2000?	Trident D-5	-	DASO-26	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2016-S20	2457461.50	2016 Mar 14	Trident D-5	-	FCET-52	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2016-S21	2457462.50	2016 Mar 15	Trident D-5	-	FCET-52	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2016-S22	2457463.50	2016 Mar 16	Trident D-5	-	FCET-52	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2016-A50	2457559.50	2016 Jun 20	Trident D-5	-	DASO-11?	0.000	USNSSP	MF	U	-	OT	Wire	-	-
2016-S58	2457631.50	2016 Aug 31	Trident D-5	-	DASO-27	0.000	USNSSP	MS	-	-	OT	scout.com	-	-
2017-S11	2457798.98	2017 Feb 14 1130	Trident D-5	-	FCET-53	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2017-S12	2457799.10	2017 Feb 14 1420	Trident D-5	-	FCET-53	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2017-S13	2457799.50	2017 Feb 15?	Trident D-5	-	FCET-53	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2017-S14	2457800.50	2017 Feb 16?	Trident D-5	-	FCET-53	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S16	2458204.61	2018 Mar 27 0240?	Trident D-5	-	DASO-28	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S17	2458204.61	2018 Mar 27 0240?	Trident D-5	-	DASO-28	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S89	2458118.50	2018?	Trident D-5	-	FCET-54	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S90	2458118.50	2018?	Trident D-5	-	FCET-54	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S91	2458118.50	2018?	Trident D-5	-	FCET-54	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2018-S92	2458118.50	2018?	Trident D-5	-	FCET-54	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2019-S22	2458612.50	2019 May 9	Trident D-5	-	DASO-29	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2019-S52	2458730.50	2019 Sep 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2019-S53	2458730.50	2019 Sep 4	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2019-S54	2458732.50	2019 Sep 6	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2019-S55	2458732.50	2019 Sep 6	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2020-S14	2458891.50	2020 Feb 12	Trident D-5	-	DASO-30 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2020-S16	2458895.50	2020 Feb 16	Trident D-5	-	DASO-30 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2021-S16	2459255.48	2021 Feb 9 2330	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2021-S63	2459255.50	2021 Feb 10	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	twitter/rss_40	-	-
2021-S64	2459256.50	2021 Feb 11	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	twitter/rss_40	-	-
2021-S65	2459256.50	2021 Feb 11	Trident D-5	-	CET	0.000	USNSSP	MS	-	-	OT	twitter/rss_40	-	-
2021-S66	2459474.50	2021 Sep 17	Trident D-5	-	DASO-31 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2021-S67	2459474.50	2021 Sep 17	Trident D-5	-	DASO-31 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2022-S50	2459745.50	2022 Jun 15	Trident D-5	-	CET?	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2022-S51	2459745.50	2022 Jun 15	Trident D-5	-	CET?	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2022-S52	2459747.50	2022 Jun 17	Trident D-5	-	CET?	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2022-S53	2459747.50	2022 Jun 17	Trident D-5	-	CET?	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2023-S39	2460110.50	2023 Jun 15?	Trident D-5	-	FCET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2023-S40	2460110.50	2023 Jun 15?	Trident D-5	-	FCET	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2023-S41	2460215.38	2023 Sep 27 2110	Trident D-5	-	DASO-32 D5LE	0.000	USNSSP	MS	-	-	OT	Wire	-	-
2024-A01	2460339.50	2024 Jan 30	Trident D-5	-	UK DASO	0.000	RN	MF	S1I	-	OT	Wire	-	ft ignite after ejection

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1971-000	2441076.82	1971 May 5 0743:01	R-UNK	-	23C-2 (3C-20)	Duplicate of 1971-039	See SSN 5310	-	-	CC	LC40	-	-	35953	-	-
1977-C01	2443415.78	1977 Sep 29 0650:00	R-UNK	-	Salyut-6	Objects launched to S6	Unknown launches	-	-	UNK	-	-	-	0	-	-
1982-C01	2445079.32	1982 Apr 19 1945:00	R-UNK	-	Salyut-7	Objects launched to S7	Unknown launches	-	-	UNK	-	-	-	0	-	-
1986-C01	2446481.39	1986 Feb 19 2128:23	R-UNK	-	Mir	Objects launched to Mir	Unknown launches	-	-	UNK	-	-	-	0	-	-
1998-C01	2451137.78	1998 Nov 20 0640	R-UNK	-	ISS	Objects launched to ISS	Unknown launches	-	-	UNK	-	-	-	0	-	-
2014-000	2456658.50	2014 Jan 1	R-UNK	-	Not a launch	Entry for unknown debris	-	-	-	UNK	-	-	-	33612	-	-
2021-C01	2459333.72	2021 Apr 29 0523	R-UNK	-	CSS	Objects launched to CSS	Unknown launches	-	-	UNK	-	-	-	0	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1971-000	2441076.82	1971 May 5 0743:01	R-UNK	-	23C-2 (3C-20)	0.000	UNK	!	-	-	Not real	AFT3	MM/Titan	-
1977-C01	2443415.78	1977 Sep 29 0650:00	R-UNK	-	Salyut-6	0.000	UNK	!	-	-	Not real	-	-	-
1982-C01	2445079.32	1982 Apr 19 1945:00	R-UNK	-	Salyut-7	0.000	UNK	!	-	-	Not real	-	-	-
1986-C01	2446481.39	1986 Feb 19 2128:23	R-UNK	-	Mir	0.000	UNK	!	-	-	Not real	-	-	-
1998-C01	2451137.78	1998 Nov 20 0640	R-UNK	-	ISS	0.000	UNK	!	-	-	Not real	-	-	-
2014-000	2456658.50	2014 Jan 1	R-UNK	-	Not a launch	0.000	UNK	!	-	-	Not real	-	-	-
2021-C01	2459333.72	2021 Apr 29 0523	R-UNK	-	CSS	0.000	UNK	!	-	-	Not real	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S241	2438869.60	1965 Apr 19 0220	UR-100	-	U 10741-601	8K84 LKI-1	MGCh 8F121/RA50	-	-	NIIP-5	LC130/27	-	-	1000?	-	(Kura)
1965-A74	2438900.66	1965 May 20 0345	UR-100	-	-	8K84 LKI-2	MGCh 8F121/RA50	-	-	NIIP-5	LC130/27	-	-	0?	-	(Kura)
1965-A87	2438930.50	1965 Jun 19	UR-100	-	-	8K84 LKI-3	MGCh 8F121/RA50	-	-	NIIP-5	LC130/26	-	-	0?	-	(Kura)
1965-S18	2438935.50	1965 Jun 24	UR-100	-	-	8K84 LKI-4	MGCh 8F121/RA50	-	-	NIIP-5	LC130/27	-	-	1000?	-	Kura
1965-A97	2438951.50	1965 Jul 10	UR-100	-	-	8K84 LKI-5	MGCh 8F121/RA50	-	-	NIIP-5	LC130/26	-	-	1000?	-	Kura
1965-A102	2438958.78	1965 Jul 17 0640	UR-100	-	22942-001	8K84 LKI-5?	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	0	-	(Kura)
1965-S20	2438965.50	1965 Jul 24	UR-100	-	-	8K84 LKI-6	MGCh 8F121/RA50	-	-	NIIP-5	LC130/26	-	-	1000?	-	Kura
1965-A116	2438972.50	1965 Jul 31	UR-100	-	-	8K84 LKI-7	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	0?	-	(Kura)
1965-S21	2439003.50	1965 Aug 31	UR-100	-	-	8K84 LKI-8	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1965-S19	2439020.50	1965 Sep 17	UR-100	-	-	8K84 LKI-9	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1965-A132	2439028.92	1965 Sep 25 1003	UR-100	-	U 22943-201	8K84 LKI-10	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	40?	-	(Kura)
1965-S22	2439037.50	1965 Oct 4	UR-100	-	-	8K84 LKI-11	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-S23	2439039.50	1965 Oct 6	UR-100	-	-	8K84 LKI-12	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-S24	2439052.50	1965 Oct 19	UR-100	-	-	8K84 LKI-13	MGCh 8F121/RA50	Salvo	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-S25	2439052.50	1965 Oct 19	UR-100	-	-	8K84 LKI-14	MGCh 8F121/RA50	Salvo	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1965-S26	2439065.50	1965 Nov 1	UR-100	-	-	8K84 LKI-15	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1965-A154	2439067.50	1965 Nov 3	UR-100	-	-	8K84 LKI-16	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	0?	-	(Kura)
1965-A158	2439069.50	1965 Nov 5	UR-100	-	-	8K84 LKI-17	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	0?	-	(Kura)
1965-A170	2439094.50	1965 Nov 30	UR-100	-	-	8K84 LKI-18	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-S27	2439111.50	1965 Dec 17	UR-100	-	-	8K84 LKI-19	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-A173	2439113.50	1965 Dec 19	UR-100	-	-	8K84 LKI-20	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	0?	-	(Kura)
1965-S28	2439123.50	1965 Dec 29	UR-100	-	-	8K84 LKI-21	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1965-A174	2439124.50	1965 Dec 30	UR-100	-	-	8K84 LKI-22	MGCh 8F121/RA50	Salvo	-	NIIP-5	LC131	-	-	0?	-	(Kura)
1965-S796	2439124.50	1965 Dec 30	UR-100	-	-	8K84 LKI-23	MGCh 8F121/RA50	Salvo	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S17	2439212.50	1966 Mar 28	UR-100	-	N 10744-308	8K84 LKI-24 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1966-S18	2439216.50	1966 Apr 1	UR-100	-	N 10744-303	8K84 LKI-25 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S19	2439227.50	1966 Apr 12	UR-100	-	N 10744-311	8K84 LKI-26 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-A55	2439236.50	1966 Apr 21	UR-100	-	N 22944-306	8K84 LKI-27 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	0?	-	Kura
1966-S20	2439239.74	1966 Apr 24 0543	UR-100	-	N 10744-312	8K84 LKI-28 SLI	MGCh 8F121P1/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S21	2439243.50	1966 Apr 28	UR-100	-	N 10701-01T	8K84 LKI-29 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1966-S22	2439244.50	1966 Apr 29	UR-100	-	N 22901-12P	8K84 LKI-30 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1966-S23	2439275.50	1966 May 30	UR-100	-	N 10744-351	8K84 LKI-31 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1966-S24	2439284.50	1966 Jun 8	UR-100	-	N 10744-352	8K84 LKI-32 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC145/75	-	-	0?	-	(Kura)
1966-A76	2439287.50	1966 Jun 11	UR-100	-	-	8K84 LKI-33 SLI	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	0?	-	(Kura)
1966-S25	2439305.50	1966 Jun 29	UR-100	-	N 22944-307	8K84 LKI-34 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S26	2439311.50	1966 Jul 5	UR-100	-	N 229 001	8K84P LKI-35 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1966-S27	2439324.50	1966 Jul 18	UR-100	-	N 229 002	8K84P LKI-36 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1966-S28	2439334.50	1966 Jul 28	UR-100	?	-	8K84 LKI-37 SLI	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S29	2439338.50	1966 Aug 1	UR-100	-	N 10744-310	8K84 LKI-38 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S30	2439340.50	1966 Aug 3	UR-100	-	N 10744-357	8K84 LKI-39 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1966-S31	2439341.50	1966 Aug 4	UR-100	-	N 10744-304	8K84 LKI-40 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S32	2439346.50	1966 Aug 9	UR-100	-	-	8K84 LKI-41 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S33	2439348.50	1966 Aug 11	UR-100	-	-	8K84 LKI-42	MGCh 8F121/RA50	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1966-S34	2439349.50	1966 Aug 12	UR-100	-	-	8K84 LKI-43	MGCh 8F121/RA50	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1966-A99	2439352.50	1966 Aug 15	UR-100	-	-	8K84 LKI-44	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	0?	-	Kura
1966-S35	2439354.50	1966 Aug 17	UR-100	-	-	8K84 LKI-45	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S36	2439357.50	1966 Aug 20	UR-100	-	-	8K84 LKI-46	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1966-S37	2439361.50	1966 Aug 24	UR-100	-	-	8K84 LKI-47	MGCh 8F121/RA50	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1966-S38	2439362.50	1966 Aug 25	UR-100	-	-	8K84 LKI-48	MGCh 8F121/RA50	-	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1966-S39	2439364.50	1966 Aug 27	UR-100	-	-	8K84 LKI-49	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S40	2439367.50	1966 Aug 30	UR-100	-	-	8K84 LKI-50	MGCh 8F121/RA50	-	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1966-S41	2439370.50	1966 Sep 2	UR-100	-	-	8K84 UBP-28	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1966-S42	2439374.50	1966 Sep 6	UR-100	-	-	8K84 UBP-29	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S43	2439380.50	1966 Sep 12	UR-100	-	-	8K84 UBP-30	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S44	2439384.50	1966 Sep 16	UR-100	-	-	8K84 UBP-31	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S45	2439399.50	1966 Oct 1	UR-100	-	-	8K84 UBP-32	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S46	2439403.50	1966 Oct 5	UR-100	-	-	8K84 UBP-33	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S47	2439405.50	1966 Oct 7	UR-100	-	-	8K84 UBP-34	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1966-S48	2439419.50	1966 Oct 21	UR-100	-	-	8K84 UBP-35	MGCh 8F121/RA50	Pal'ma-2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S565	2439425.50	1966 Oct 27	UR-100	-	-	8K84 LKI-24 (SLI)	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S49	2439446.50	1966 Nov 17	UR-100	-	-	8K84 UBP-36	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S50	2439448.50	1966 Nov 19	UR-100	-	-	8K84 UBP-37	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S51	2439451.50	1966 Nov 22	UR-100	-	-	8K84 UBP-38	MGCh 8F121/RA50	-	-	NIIP-5	-	-	-	1000?	-	Kura
1966-S52	2439460.50	1966 Dec 1	UR-100	-	-	8K84 UBP-39	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S53	2439467.50	1966 Dec 8	UR-100	-	-	8K84 UBP-40	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1966-S54	2439471.50	1966 Dec 12	UR-100	-	-	8K84 UBP-41	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1966-S55	2439475.50	1966 Dec 16	UR-100	-	-	8K84 UBP-42	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1966-S56	2439485.50	1966 Dec 26	UR-100	-	-	8K84 UBP-43	MGCh 8F121/RA50	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1966-S57	2439486.50	1966 Dec 27	UR-100	-	-	8K84 UBP-44 OT	MGCh 8F121/RA50	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1967-S782	2439490.50	1967	UR-100	-	-	8K84 UBP KR-1	-	-	-	KRAS	-	-	-	1000?	-	Pacific
1967-S26	2439504.50	1967 Jan 14	UR-100	-	-	8K84 UBP-45 LKI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-A53	2439515.50	1967 Jan 25	UR-100	-	-	8K84 UBP-46 OT	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	0?	-	(Kura)
1967-S27	2439551.50	1967 Mar 2	UR-100	-	-	8K84 UBP-47 LKI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S28	2439567.50	1967 Mar 18	UR-100	-	Ya10701-13T	8K84 UBP-48 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S29	2439572.50	1967 Mar 23	UR-100	-	Ya10702-01T	8K84 UBP-49 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S30	2439574.50	1967 Mar 25	UR-100	-	Ya22902-23P	8K84 UBP-50 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S31	2439601.50	1967 Apr 21	UR-100	-	Ya22903-23P	8K84 UBP-51 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S32	2439606.50	1967 Apr 26	UR-100	-	Ya10703-01T	8K84 UBP-52 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S33	2439655.50	1967 Jun 14	UR-100	-	Ya22904-23P	8K84 UBP-53 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S34	2439662.50	1967 Jun 21	UR-100	-	Ya10704-01T	8K84 UBP-54 SLI	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S741	2439691.50	1967 Jul 20	UR-100	-	-	8K84 4 RD UBP	MGCh 8F121/RA50	-	-	DROV	LC830/33	-	-	1000?	-	Kura
1967-S740	2439691.50	1967 Jul 20	UR-100	-	-	8K84 36 RD UBP-1	MGCh 8F121/RA50	-	-	KRAS	LC620/51	-	-	1000?	-	Pacific
1967-S35	2439705.50	1967 Aug 3	UR-100	-	Ya22905-23P	8K84 UBP-55	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S36	2439733.50	1967 Aug 31	UR-100	-	Ya10704-13T	8K84 UBP-56	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S37	2439735.50	1967 Sep 2	UR-100	-	Ya22906-23P	8K84 UBP-57	MGCh 8F121/RA50	-	-	NIIP-5	LC131	-	-	1000?	-	Kura
1967-S38	2439753.50	1967 Sep 20	UR-100	-	Ya10744-376	8K84 UBP-58	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC132/30	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-S39	2439753.50	1967 Sep 20	UR-100	-	Ya10744-378	8K84 UBP-59	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1967-S40	2439754.50	1967 Sep 21	UR-100	-	Ya22901-24P	8K84 UBP-60	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S41	2439765.50	1967 Oct 2	UR-100	-	Ya10744-379	8K84 UBP-61	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1967-S42	2439769.50	1967 Oct 6	UR-100	-	Ya10744-372	8K84 UBP-62	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1967-S43	2439786.50	1967 Oct 23	UR-100	-	Ya226 01U	8K84 UBP-63	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S44	2439792.50	1967 Oct 29	UR-100	-	Ya10706-01T	8K84 UBP-64	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S45	2439792.50	1967 Oct 29	UR-100	-	Ya226 02U	8K84 UBP-65	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1967-S46	2439808.50	1967 Nov 14	UR-100	-	Ya22601-01T	8K84 UBP-66	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S47	2439819.50	1967 Nov 25	UR-100	-	Ya10702-13T	8K84 UBP-67	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1967-S48	2439822.50	1967 Nov 28	UR-100	-	Ya10744-377	8K84 UBP-68	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S49	2439838.50	1967 Dec 14	UR-100	-	Ya10706-13T	8K84 UBP-69	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1967-S50	2439839.50	1967 Dec 15	UR-100	-	Ya10705-13T	8K84 UBP-70	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1967-S51	2439845.50	1967 Dec 21	UR-100	-	Ya22906-24P	8K84 UBP-71	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S76	2439855.50	1968	UR-100	-	-	8K84 UBP-98	-	-	-	NIIP-5	-	-	-	1000?	-	Kura
1968-S730	2439855.50	1968?	UR-100	-	-	8K84 54 RD UBP-1	-	-	-	TEYK	-	-	-	1000?	-	Kura
1968-S731	2439855.50	1968?	UR-100	-	-	8K84 54 RD UBP-2	-	-	-	TEYK	-	-	-	1000?	-	Kura
1968-S732	2439855.50	1968?	UR-100	-	-	8K84 54 RD UBP-3	-	-	-	TEYK	-	-	-	1000?	-	Kura
1968-S50	2439893.50	1968 Feb 7	UR-100	-	-	8K84 UBP-72	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S51	2439899.50	1968 Feb 13	UR-100	-	-	8K84 UBP-73	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S740	2439915.50	1968 Mar	UR-100	-	-	8K84 47 RD UBP-0	-	-	-	YSNYA	LC750/5/3	-	-	1000?	-	Pacific
1968-S52	2439937.50	1968 Mar 22	UR-100	-	-	8K84 UBP-74	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S53	2439943.50	1968 Mar 28	UR-100	-	-	8K84 UBP-75	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S54	2439945.50	1968 Mar 30	UR-100	-	-	8K84 UBP-76	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S55	2439951.50	1968 Apr 5	UR-100	-	-	8K84 UBP-77	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S56	2440013.50	1968 Jun 6	UR-100	-	-	8K84 UBP-78	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1968-S769	2440014.50	1968 Jun 7	UR-100	-	-	8K84 UBP	-	-	-	DROV	LC830/21	-	-	1000?	-	Kura
1968-S770	2440014.50	1968 Jun 7	UR-100	-	-	8K84 UBP	-	-	-	DROV	LC830/23	-	-	1000?	-	Kura
1968-S57	2440019.50	1968 Jun 12	UR-100	-	-	8K84 UBP-79	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1968-S58	2440031.50	1968 Jun 24	UR-100	-	-	8K84 UBP-80	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S59	2440039.50	1968 Jul 2	UR-100	-	-	8K84 UBP-81	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S60	2440043.50	1968 Jul 6	UR-100	-	-	8K84 UBP-82	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S61	2440046.50	1968 Jul 9	UR-100	-	-	8K84 UBP-83	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S62	2440047.50	1968 Jul 10	UR-100	-	-	8K84 UBP-84	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1968-S63	2440050.50	1968 Jul 13	UR-100	-	-	8K84 UBP-85	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S64	2440085.50	1968 Aug 17	UR-100	-	-	8K84 UBP-86	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1968-S65	2440095.50	1968 Aug 27	UR-100	-	-	8K84 UBP-87	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S66	2440098.50	1968 Aug 30	UR-100	-	-	8K84 UBP-88	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1968-S67	2440115.50	1968 Sep 16	UR-100	-	-	8K84 UBP-89	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S68	2440141.50	1968 Oct 12	UR-100	-	-	8K84 UBP-90	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S69	2440148.50	1968 Oct 19	UR-100	-	-	8K84 UBP-91	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S70	2440157.50	1968 Oct 28	UR-100	-	-	8K84 UBP-92	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1968-S71	2440158.50	1968 Oct 29	UR-100	-	-	8K84 UBP-93	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S72	2440181.50	1968 Nov 21	UR-100	-	-	8K84 UBP-94	-	-	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1968-S73	2440194.50	1968 Dec 4	UR-100	-	-	8K84 UBP-95	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S74	2440202.50	1968 Dec 12	UR-100	-	-	8K84 UBP-96	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1968-S75	2440214.50	1968 Dec 24	UR-100	-	-	8K84 UBP-97	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1969-S746	2440221.50	1969?	UR-100	-	-	8K84 54 RD UBP-4	-	-	-	TEYK	-	-	-	1000?	-	Kura
1969-S747	2440221.50	1969?	UR-100	-	-	8K84 54 RD UBP-5	-	-	-	TEYK	-	-	-	1000?	-	Kura
1969-S748	2440221.50	1969?	UR-100	-	-	8K84 54 RD UBP-6	-	-	-	TEYK	-	-	-	1000?	-	Kura
1969-S749	2440221.50	1969?	UR-100	-	-	8K84 54 RD UBP-7	-	-	-	TEYK	-	-	-	1000?	-	Kura
1969-S24	2440242.50	1969 Jan 21	UR-100	-	-	8K84 UBP-99	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1969-S25	2440249.50	1969 Jan 28	UR-100	-	-	8K84 UBP-100	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1969-S26	2440252.50	1969 Jan 31	UR-100	-	-	8K84 UBP-101	-	-	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1969-S27	2440301.50	1969 Mar 21	UR-100	-	-	8K84 UBP-102	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S28	2440335.50	1969 Apr 24	UR-100	-	-	8K84 UBP-103	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S29	2440340.50	1969 Apr 29	UR-100	-	-	8K84 UBP-104	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S30	2440364.50	1969 May 23	UR-100	-	-	8K84 UBP-105	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S31	2440372.50	1969 May 31	UR-100	-	-	8K84 UBP-106	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S32	2440379.50	1969 Jun 7	UR-100	-	-	8K84 UBP-107	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S33	2440382.50	1969 Jun 10	UR-100	-	-	8K84 UBP-108	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1969-S34	2440399.50	1969 Jun 27	UR-100	-	-	8K84 UBP-109	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S35	2440412.50	1969 Jul 10	UR-100	-	-	8K84 UBP-110	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S36	2440420.50	1969 Jul 18	UR-100	-	-	8K84 UBP-111	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S414	2440425.73	1969 Jul 23 0530	UR-100K	-	Yu10761-001	15A20 LKI-1	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S750	2440426.50	1969 Jul 24	UR-100	-	-	8K84 10 RD UBP-1	-	-	-	KOSTR	LC33	-	-	1000?	-	Kura
1969-S751	2440429.50	1969 Jul 27	UR-100	-	-	8K84 10 RD UBP-2	-	-	-	KOSTR	LC33	-	-	1000?	-	Kura
1969-S37	2440430.50	1969 Jul 28	UR-100	-	-	8K84 UBP-112	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S46	2440448.71	1969 Aug 15 0500	UR-100K	-	Yu10761-002	15A20 LKI-2	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S38	2440451.50	1969 Aug 18	UR-100	-	-	8K84 UBP-113	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S39	2440461.50	1969 Aug 28	UR-100	-	-	8K84 UBP-114	-	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1969-S47	2440476.63	1969 Sep 12 0304	UR-100K	-	Yu10761-003	15A20 LKI-3	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S40	2440491.50	1969 Sep 27	UR-100	-	-	8K84 UBP-115	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S48	2440493.70	1969 Sep 29 0450	UR-100K	-	Yu10761-004	15A20 LKI-4	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S41	2440494.50	1969 Sep 30	UR-100	-	-	8K84 UBP-116	-	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1969-S49	2440505.50	1969 Oct 11 0000	UR-100K	-	Yu10761-005	15A20 LKI-5	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S42	2440517.50	1969 Oct 23	UR-100	-	-	8K84 UBP-117	Pal'ma-3	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1969-S43	2440518.50	1969 Oct 24	UR-100	-	-	8K84 UBP-118	Pal'ma-3	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1969-S44	2440523.50	1969 Oct 29	UR-100	-	-	8K84 UBP-119	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1969-S50	2440523.54	1969 Oct 29 0103	UR-100K	-	Yu10761-006	15A20 LKI-6	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1969-S51	2440526.65	1969 Nov 1 0342	UR-100K	-	Yu10761-007	15A20 LKI-7	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1969-S45	2440559.50	1969 Dec 4	UR-100	-	-	8K84 UBP-120	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S776	2440586.50	1970?	UR-100	-	-	8K84 54 RD UBP	-	-	-	TEYK	-	-	-	1000?	-	Kura
1970-S31	2440592.63	1970 Jan 6 0305	UR-100K	-	Yu10761-009	15A20 LKI-8	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1970-S17	2440602.50	1970 Jan 16	UR-100	-	-	8K84 UBP-121	-	-	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1970-S32	2440605.60	1970 Jan 19 0230	UR-100K	-	Yu10761-008	15A20 LKI-9	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S765	2440634.50	1970 Feb 17	UR-100	-	-	8K84 UBP	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S33	2440635.59	1970 Feb 18 0207	UR-100K	-	Yu10761-010	15A20 LKI-10	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S34	2440636.59	1970 Feb 19 0209	UR-100K	-	Yu10761-011?	15A20 LKI-11	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S18	2440638.50	1970 Feb 21	UR-100	-	-	8K84 UBP-122	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S35	2440690.67	1970 Apr 14 0410	UR-100K	-	Yu10761-012	15A20 LKI-12	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S36	2440693.67	1970 Apr 17 0405	UR-100K	-	Yu10761-013	15A20 LKI-13	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1970-S37	2440722.68	1970 May 16 0425	UR-100K	-	Yu10761-014	15A20 LKI-14	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S38	2440733.69	1970 May 27 0431	UR-100K	-	Kh10761-017	15A20 LKI-15	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S39	2440742.76	1970 Jun 5 0615	UR-100K	-	Kh10761-016	15A20 LKI-16	1 BB RA64	MGCh 15F202 /MinRange	-	NIIP-5	LC131/29	-	-	1000?	-	Bekdash
1970-S20	2440748.50	1970 Jun 11	UR-100	-	-	8K84 UBP-124	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1970-S716	2440758.50	1970 Jun 21	UR-100	-	-	8K84 54 RD UBP-8	-	-	-	TEYK	-	-	-	1000?	-	Kura
1970-S40	2440759.64	1970 Jun 22 0325	UR-100K	-	Kh10761-018	15A20 LKI-17	3 BB 15F201/RA65	RGCh 15B20 /MinRange	-	NIIP-5	LC131/28	-	-	1000?	-	Kzyl-Tu
1970-S21	2440763.50	1970 Jun 26	UR-100	-	-	8K84 UBP-125M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S41	2440770.63	1970 Jul 3 0310	UR-100K	-	Kh10761-019	15A20 LKI-18	1 BB RA64	MGCh 15F202 /MinRange	-	NIIP-5	LC131/28	-	-	1000?	-	Kzyl-Tu
1970-S42	2440775.67	1970 Jul 8 0402	UR-100K	-	Yu10761-015	15A20 LKI-19	1 BB RA64	MGCh 15F202	-	NIIP-5	LC174/44	-	-	1000?	-	Kura 1K
1970-S43	2440791.68	1970 Jul 24 0422	UR-100K	-	5115761-021	15A20 LKI-20	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1970-S29	2440794.73	1970 Jul 27 0537	UR-100K	-	6305761-022	15A20 LKI-21	1 BB RA64	MGCh 15F202	-	NIIP-5	LC174/44	-	-	1000?	9200	Pacific
1970-S30	2440795.71	1970 Jul 28 0502	UR-100K	-	Kh10761-020	15A20 LKI-22	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/29	-	-	1000?	9200	Pacific
1970-S46	2440819.67	1970 Aug 21 0410	UR-100K	-	4925761-023	15A20 LKI-23	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Pacific
1970-S47	2440820.59	1970 Aug 22 0215	UR-100K	-	5115761-024	15A20 LKI-24	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Pacific
1970-S458	2440853.50	1970 Sep 24	UR-100	-	-	8K84 UBP-126M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S459	2440859.50	1970 Sep 30	UR-100	-	-	8K84 UBP-127M	-	-	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1970-S24	2440863.50	1970 Oct 4	UR-100	-	-	8K84 UBP-128M	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1970-S48	2440874.65	1970 Oct 15 0332	UR-100K	-	-	15A20 LKI-25	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura 1K
1970-S44	2440880.68	1970 Oct 21 0413	UR-100K	-	-	15A20 LKI-26	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura 1K
1970-S25	2440882.50	1970 Oct 23	UR-100	-	-	8K84 UBP-129M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S722	2440887.50	1970 Oct 28	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1970-S26	2440889.50	1970 Oct 30	UR-100	-	-	8K84 UBP-130M	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1970-S27	2440890.50	1970 Oct 31	UR-100	-	-	8K84 UBP-131M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S717	2440901.50	1970 Nov 11	UR-100	-	-	8K84 54 RD UBP-9	-	-	-	TEYK	LC15/52	-	-	1000?	-	Kura
1970-S718	2440901.50	1970 Nov 11	UR-100	-	-	8K84 54 RD UBP-10	-	-	-	TEYK	LC15/53	-	-	1000?	-	Kura
1970-S719	2440901.50	1970 Nov 11	UR-100	-	-	8K84 10 RD UBP-3	-	-	-	KOSTR	-	-	-	1000?	-	Kura
1970-S720	2440901.50	1970 Nov 11	UR-100	-	-	8K84 UBP 52 RD	-	-	-	BERSH	LC4/1	-	-	1000?	-	Kura
1970-S761	2440901.50	1970 Nov 11	UR-100	-	-	8K84 UBP 52 RD	-	-	-	BERSH	LC4/4	-	-	1000?	-	Kura
1970-S723	2440902.25	1970 Nov 11 1753	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1970-S721	2440902.50	1970 Nov 12	UR-100	-	-	8K84 36 RD UBP-3	-	-	-	KRAS	LC620/31	-	-	1000?	-	Pacific
1970-S28	2440918.50	1970 Nov 28	UR-100	-	-	8K84 UBP-132M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S22	2440924.50	1970 Dec 4	UR-100	-	-	8K84 UBP-133M	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1970-S23	2440930.50	1970 Dec 10	UR-100	-	-	8K84 UBP-134M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S448	2440938.50	1970 Dec 18	UR-100	-	-	8K84 UBP-135M	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1970-S453	2440942.50	1970 Dec 22	UR-100	-	-	8K84 UBP-136M	-	-	-	NIIP-5	LC177/47	-	-	1000?	-	Kura
1970-S45	2440943.61	1970 Dec 23 0237	UR-100K	-	4925751-147T	15A20 K (Kontrol'niy)	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1970-A141	2440948.61	1970 Dec 28 0233	UR-100K	-	4764732-1P	15A20 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	500?	-	(Kura)
1971-S674	2440951.50	1971?	UR-100	-	-	8K84 54 RD UBP-11	-	-	-	TEYK	-	-	-	1000?	-	-
1971-S675	2440951.50	1971?	UR-100	-	-	8K84 54 RD UBP-12	-	-	-	TEYK	-	-	-	1000?	-	-
1971-S39	2440970.65	1971 Jan 19 0340	UR-100K	-	5244732-2P	15A20 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1971-S40	2440974.59	1971 Jan 23 0215	UR-100K	-	6305761-028	15A20 LKI-27	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1971-S109	2440985.16	1971 Feb 2 1545	UR-100M	-	52447-322T1	8K84M LKI-1	1 BB 15F843	MGCh 15F842P1/Svinets	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S121	2440994.50	1971 Feb 12	UR-100M	-	8K84M	8K84M LKI-2	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S41	2441021.67	1971 Mar 11 0410	UR-100K	-	5115761-027	15A20 LKI-28	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1971-S166	2441025.61	1971 Mar 15 0235	UR-100K	-	4764711-543P	15A20 Kontrol'niy	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1971-S42	2441034.50	1971 Mar 24	UR-100M	-	8K84M	8K84M LKI-3	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S43	2441058.50	1971 Apr 17	UR-100M	-	8K84M	8K84M LKI-4	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S27	2441091.50	1971 May 20	UR-100	-	8K84	8K84 UBP-137	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1971-S44	2441092.50	1971 May 21	UR-100M	-	8K84M	8K84M LKI-5	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S45	2441100.68	1971 May 29 0418	UR-100M	-	52447-322T	8K84M LKI-6	1 BB 15F843	MGCh 15F842P3	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-A54	2441105.50	1971 Jun 3	UR-100	-	8K84	8K84 UBP-138	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1971-S28	2441118.50	1971 Jun 16	UR-100U	-	15A20U?	15A20U LKI-1?	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1971-S676	2441118.50	1971 Jun 16	UR-100	-	-	8K84 UBP 52 RD	-	-	-	BERSH	LC6/1	-	-	1000?	-	Kura
1971-S29	2441186.50	1971 Aug 23	UR-100	-	8K84	8K84 UBP-140	-	-	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S46	2441196.50	1971 Sep 2	UR-100M	-	8K84M	8K84M LKI-7	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1971-S47	2441201.50	1971 Sep 7	UR-100M	-	8K84M	8K84M LKI-8	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S417	2441210.50	1971 Sep 16	UR-100M	-	8K84M	8K84M LKI-9	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1971-S32	2441221.66	1971 Sep 27 0355	UR-100U	-	4924461-053	15A20U LKI-2	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S30	2441223.50	1971 Sep 29	UR-100M	-	8K84M	8K84M LKI-10	-	-	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S31	2441224.50	1971 Sep 30	UR-100M	-	8K84M	8K84M LKI-11	-	-	-	NIIP-5	LC172/49	-	-	1000?	-	Kura
1971-S33	2441234.50	1971 Oct 10	UR-100	-	8K84	8K84 UBP	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S38	2441244.72	1971 Oct 20 0521	UR-100M	-	64147-332T1	8K84M LKI-12	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC171/48	-	-	1000?	-	Kura
1971-S34	2441245.50	1971 Oct 21	UR-100U	-	15A20U	15A20U LKI-3	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S35	2441279.50	1971 Nov 24	UR-100U	-	-	15A20U LKI-4	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S37	2441295.57	1971 Dec 10 0145	UR-100U	-	-	15A20U LKI-5	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S684	2441296.32	1971 Dec 10 1940	UR-100U	-	-	15A20U LKI-6	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1971-S48	2441302.50	1971 Dec 17	UR-100U	-	-	15A20U LKI-7	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1971-S49	2441307.50	1971 Dec 22	UR-100U	-	-	15A20U LKI-8	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1971-S331	2441310.50	1971 Dec 25	UR-100U	-	-	15A20U LKI-9	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1972-S497	2441316.50	1972?	UR-100	-	-	8K84 54 RD UBP-13	-	-	-	TEYK	-	-	-	1000?	-	Kura
1972-S21	2441393.50	1972 Mar 17	UR-100U	-	-	15A20U LKI-10	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1972-S22	2441394.50	1972 Mar 18	UR-100U	-	-	15A20U K ZP-1	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1972-S23	2441403.50	1972 Mar 27	UR-100U	-	-	15A20U K ZP-2	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1972-S24	2441484.50	1972 Jun 16	UR-100U	-	-	15A20U LKI-12	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1972-S792	2441497.50	1972 Jun 29	UR-100M	-	-	8K84M UBP	-	-	-	DROV	LC830/54	-	-	1000?	-	Kura
1972-S25	2441511.50	1972 Jul 13	UR-100U	-	-	15A20U K ZP-3	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1972-S26	2441603.75	1972 Oct 13 0600:01	UR-100U	-	-	15A20U K ZP-4	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131N/57	-	-	1000?	-	Pacific
1972-S27	2441608.50	1972 Oct 18	UR-100U	-	-	15A20U K ZP-5	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC132/30	-	-	1000?	-	Pacific
1972-S17	2441639.63	1972 Nov 18 0310	UR-100K	-	49257-51-148T	15A20 UBP-1 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1972-S18	2441650.00	1972 Nov 28 1205	UR-100K	-	51173-21-179T	15A20 UBP-2 K	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1972-S19	2441659.59	1972 Dec 8 0215	UR-100K	-	47653-41-273L	15A20 UBP-3 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S28	2441663.50	1972 Dec 12	UR-100U	-	-	15A20U K ZP-6	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1972-S795	2441672.50	1972 Dec 21	UR-100	-	D01	8K84 4 RD UBP-2	Duga-1	-	-	DROV	LC830/27	-	-	1000?	-	Kura
1972-S796	2441672.50	1972 Dec 21	UR-100	-	D02	8K84 4 RD UBP-3	Duga-1	-	-	DROV	LC830/30	-	-	1000?	-	Kura
1972-S20	2441673.58	1972 Dec 22 0202	UR-100K	-	51173-21-180T	15A20 UBP-4 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1972-S29	2441679.50	1972 Dec 28	UR-100U	-	-	15A20U K ZP-7	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1973-S506	2441682.50	1973?	UR-100	-	T07	8K84 47 RD UBP-1	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S507	2441682.50	1973?	UR-100	-	T08	8K84 47 RD UBP-2	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S508	2441682.50	1973?	UR-100	-	T09	8K84 47 RD UBP-3	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S509	2441682.50	1973?	UR-100	-	T10	8K84 47 RD UBP-4	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S510	2441682.50	1973?	UR-100	-	T11	8K84 47 RD UBP-5	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S511	2441682.50	1973?	UR-100	-	T12	8K84 47 RD UBP-6	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S512	2441682.50	1973?	UR-100	-	T13	8K84 47 RD UBP-7	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S513	2441682.50	1973?	UR-100	-	T14	8K84 47 RD UBP-8	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S514	2441682.50	1973?	UR-100	-	T15	8K84 47 RD UBP-9	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S515	2441682.50	1973?	UR-100	-	T16	8K84 47 RD UBP-10	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S516	2441682.50	1973?	UR-100	-	T17	8K84 47 RD UBP-11	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S517	2441682.50	1973?	UR-100	-	T18	8K84 47 RD UBP-12	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S518	2441682.50	1973?	UR-100	-	T19	8K84 47 RD UBP-13	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S519	2441682.50	1973?	UR-100	-	T20	8K84 47 RD UBP-14	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S520	2441682.50	1973?	UR-100	-	T21	8K84 47 RD UBP-15	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S521	2441682.50	1973?	UR-100	-	T22	8K84 47 RD UBP-16	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1973-S550	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-1	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S551	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-2	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S552	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-3	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S553	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-4	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S554	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-5	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S555	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-6	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S556	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-7	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S557	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-8	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S558	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-9	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S559	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-10	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S560	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-11	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S561	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-12	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S562	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-13	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S563	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-14	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S564	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-15	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S565	2441682.50	1973?	UR-100	-	-	8K84 27 RD UBP-16	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S566	2441682.50	1973?	UR-100M	-	-	8K84M 27 RD UBP-17	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S567	2441682.50	1973?	UR-100M	-	-	8K84M 27 RD UBP-18	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1973-S45	2441704.60	1973 Jan 22 0230	UR-100K	-	47653-41-27P	15A20 UBP-5 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S10	2441712.50	1973 Jan 30	UR-100U	-	-	15A20U LKI-13	-	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1973-S46	2441758.70	1973 Mar 17 0442	UR-100K	-	47639-21-273P	15A20 UBP-6 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S47	2441764.65	1973 Mar 23 0340	UR-100K	-	63039-31-233T	15A20 UBP-7 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S534	2441768.50	1973 Mar 27	UR-100M	-	D12	8K84M 4 RD UBP-13	Duga-1	-	-	DROV	LC830/34	-	-	1000?	-	Kura
1973-S535	2441769.50	1973 Mar 28	UR-100M	-	D13	8K84M 4 RD UBP-14	Duga-1	-	-	DROV	LC830/31	-	-	1000?	-	Kura
1973-S536	2441770.50	1973 Mar 29	UR-100M	-	D14	8K84M 4 RD UBP-15	Duga-1	-	-	DROV	LC830/37	-	-	1000?	-	Kura
1973-S537	2441771.50	1973 Mar 30	UR-100M	-	D15	8K84M 4 RD UBP-16	Duga-1	-	-	DROV	LC830/36	-	-	1000?	-	Kura
1973-S44	2441778.50	1973 Apr 6	UR-100M	-	-	8K84M UBP-141	-	-	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1973-S500	2441797.50	1973 Apr 25	UR-100M	-	T01	8K84M 47 RD UBP-17	Duga-1	-	-	YSNYA	LC750/1	-	-	1000?	-	Pacific
1973-S498	2441831.50	1973 May 29	UR-100M	-	-	8K84M 10 RD UBP-4	Zapad-73	-	-	KOSTR	LC1/3	-	-	1000?	-	Kura
1973-S501	2441833.50	1973 Jun?	UR-100	-	T02	8K84 47 RD UBP-18	Duga-1	-	-	YSNYA	LC750/1	-	-	1000?	-	Pacific
1973-S48	2441856.28	1973 Jun 22 1840	UR-100K	-	52439-22-273P	15A20 UBP-8 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S49	2441861.46	1973 Jun 27 2305	UR-100K	-	49239-32-216T	15A20 UBP-9 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S522	2441863.50	1973 Jul?	UR-100	-	T23	8K84 47 RD UBP-19	Duga-1	-	-	YSNYA	LC750/6	-	-	1000?	-	Pacific
1973-S502	2441863.50	1973 Jul?	UR-100	-	T03	8K84 47 RD UBP-20	Duga-1	-	-	YSNYA	LC750/6	-	-	1000?	-	Pacific
1973-S538	2441868.50	1973 Jul 5	UR-100	-	D16	8K84 4 RD UBP-17	Duga-1	-	-	DROV	LC830/63	-	-	1000?	-	Kura
1973-S539	2441868.50	1973 Jul 5	UR-100	-	D17	8K84 4 RD UBP-18	Duga-1	-	-	DROV	LC830/67	-	-	1000?	-	Kura
1973-S540	2441869.50	1973 Jul 6	UR-100	-	D18	8K84 4 RD UBP-19	Duga-1	-	-	DROV	LC830/66	-	-	1000?	-	Kura
1973-S50	2441910.70	1973 Aug 16 0455	UR-100K	-	52439-22-274P	15A20 UBP-10 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S541	2441918.50	1973 Aug 24	UR-100	-	D19	8K84 4 RD UBP-20	Duga-1	-	-	DROV	LC830/32	-	-	1000?	-	Kura
1973-S51	2441953.66	1973 Sep 28 0357	UR-100K	-	64149-23-273P	15A20 UBP-11 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S52	2441982.61	1973 Oct 27 0235	UR-100K	-	51159-33-234T	15A20 UBP-12 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S497	2441983.50	1973 Oct 28?	UR-100K	-	-	15A20 54 RD UBP-1	-	-	-	TEYK	-	-	-	1000?	-	Kura
1973-S503	2441986.50	1973 Nov	UR-100	-	T04	8K84 47 RD UBP-21	Duga-1	-	-	YSNYA	LC750/4/7	-	-	1000?	-	Pacific
1973-S504	2441986.50	1973 Nov	UR-100	-	T05	8K84 47 RD UBP-22	Duga-1	-	-	YSNYA	LC750/4/4	-	-	1000?	-	Pacific
1973-S505	2441986.50	1973 Nov	UR-100	-	T06	8K84 47 RD UBP-23	Duga-1	-	-	YSNYA	LC750/4/10	-	-	1000?	-	Pacific
1973-S344	2442020.52	1973 Dec 4 0033	UR-100K	-	49239-32-228T	15A20 UBP-13 K	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1973-S353	2442042.54	1973 Dec 26 0100	UR-100K	-	47649-24-273P	15A20 UBP-14 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S471	2442047.50	1974?	UR-100	-	T24	8K84 47 RD UBP-24	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S472	2442047.50	1974?	UR-100	-	T25	8K84 47 RD UBP-25	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S473	2442047.50	1974?	UR-100	-	T26	8K84 47 RD UBP-26	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S474	2442047.50	1974?	UR-100	-	T27	8K84 47 RD UBP-27	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S475	2442047.50	1974?	UR-100	-	T28	8K84 47 RD UBP-28	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S476	2442047.50	1974?	UR-100	-	T29	8K84 47 RD UBP-29	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S477	2442047.50	1974?	UR-100	-	T30	8K84 47 RD UBP-30	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S478	2442047.50	1974?	UR-100	-	T31	8K84 47 RD UBP-31	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S479	2442047.50	1974?	UR-100	-	T32	8K84 47 RD UBP-32	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S480	2442047.50	1974?	UR-100	-	T33	8K84 47 RD UBP-33	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S481	2442047.50	1974?	UR-100	-	T34	8K84 47 RD UBP-34	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S482	2442047.50	1974?	UR-100	-	T35	8K84 47 RD UBP-35	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S483	2442047.50	1974?	UR-100	-	T36	8K84 47 RD UBP-36	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S484	2442047.50	1974?	UR-100	-	T37	8K84 47 RD UBP-37	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S485	2442047.50	1974?	UR-100	-	T38	8K84 47 RD UBP-38	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S486	2442047.50	1974?	UR-100	-	T39	8K84 47 RD UBP-39	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S487	2442047.50	1974?	UR-100	-	T40	8K84 47 RD UBP-40	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S488	2442047.50	1974?	UR-100	-	T41	8K84 47 RD UBP-41	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-S489	2442047.50	1974?	UR-100	-	T42	8K84 47 RD UBP-42	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S490	2442047.50	1974?	UR-100	-	T43	8K84 47 RD UBP-43	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1974-S491	2442047.50	1974?	UR-100	-	T44	8K84 47 RD UBP-44	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Kura
1974-S492	2442047.50	1974?	UR-100	-	T45	8K84 47 RD UBP-45	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Kura
1974-S512	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-19	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S513	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-20	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S514	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-21	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S515	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-22	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S516	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-23	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S517	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-24	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S518	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-25	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S519	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-26	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S520	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-27	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S521	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-28	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S522	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-29	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S523	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-30	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S524	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-31	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S525	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-32	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S526	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-33	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S527	2442047.50	1974?	UR-100	-	-	8K84 27 RD UBP-34	Duga-1	-	-	SVOB	-	-	-	1000?	-	Kura
1974-S499	2442074.50	1974 Jan 27	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S500	2442098.50	1974 Feb 20	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S501	2442105.50	1974 Feb 27	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S33	2442132.65	1974 Mar 26 0340	UR-100K	-	63011-61-263T	15A20 UBP-15 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S34	2442136.60	1974 Mar 30 0230	UR-100K	-	47611-51-143P	15A20 UBP-16 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S567	2442161.50	1974 Apr 24	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/1	-	-	1000?	-	Kura
1974-S568	2442161.50	1974 Apr 24	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/4	-	-	1000?	-	Kura
1974-S561	2442162.50	1974 Apr 25	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/2	-	-	1000?	-	Kura
1974-S562	2442162.50	1974 Apr 25	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/5	-	-	1000?	-	Kura
1974-S563	2442163.50	1974 Apr 26	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/6	-	-	1000?	-	Kura
1974-S564	2442163.50	1974 Apr 26	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/8	-	-	1000?	-	Kura
1974-S565	2442163.50	1974 Apr 26	UR-100M	-	-	8K84M UBP	Duga-1	-	-	DROV	LC830/5/9	-	-	1000?	-	Kura
1974-S36	2442197.04	1974 May 29 1300	UR-100K	-	49211-62-263T	15A20 UBP-17 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S35	2442224.67	1974 Jun 26 0410	UR-100K	-	52411-52-143P	15A20 UBP-18 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S502	2442224.67	1974 Jun 26 0410	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S503	2442253.50	1974 Jul 25	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S493	2442228.50	1974 Jul	UR-100	-	T46	8K84 47 RD UBP-46	Duga-1	-	-	YSNYA	-	-	-	1000?	-	-
1974-S494	2442228.50	1974 Jul	UR-100	-	T47	8K84 47 RD UBP-46	Duga-1	-	-	YSNYA	-	-	-	1000?	-	-
1974-S37	2442253.54	1974 Jul 25 0100	UR-100K	-	49211-62-264T	15A20 UBP-19 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S38	2442283.25	1974 Aug 23 1800	UR-100K	-	47611-51-144P	15A20 UBP-20 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1974-S504	2442294.32	1974 Sep 3 1940	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-A35	2442295.50	1974 Sep 5	UR-100M	-	-	8K84M UBP-142	Svinets	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1974-S505	2442295.50	1974 Sep 5	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S506	2442306.50	1974 Sep 16	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S507	2442307.50	1974 Sep 17	UR-100	?	-	Unk missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1974-S31	2442307.50	1974 Sep 17	UR-100M	-	-	8K84M UBP-143	Svinets	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1974-S39	2442310.65	1974 Sep 20 0340	UR-100K	-	51121-63-263T	15A20 UBP-21 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1974-S32	2442338.50	1974 Oct 18	UR-100	-	-	8K84 UBP-144	Svinets	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1974-S40	2442399.46	1974 Dec 17 2300	UR-100K	-	47621-51-144P	15A20 UBP-22 ZP	3 BB 15F201/RA65	RGCh 15B20	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1975-S389	2442412.50	1975?	UR-100K	-	T01K	15A20 47 RD UBP-1	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Kura
1975-S22	2442439.50	1975 Jan 27	UR-100M	-	-	8K84M UBP-145	Svinets-5	-	-	NIIP-5	LC176/46	-	-	1000?	-	Kura
1975-S23	2442468.62	1975 Feb 25 0250	UR-100K	-	47656-41-143P	15A20 UBP-23 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1975-S24	2442555.21	1975 May 22 1703	UR-100K	-	52456-42-157P	15A20 UBP-24 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1975-S374	2442561.50	1975 May 29	UR-100	-	-	8K84 10 RD UBP-5	-	-	-	KOSTR	LC5/2	-	-	1000?	-	Kura
1975-S433	2442595.50	1975 Jul 2	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/4/4	-	-	1000?	-	Kura
1975-A51	2442660.61	1975 Sep 5 0235	UR-100K	-	64146-43-155P	15A20 UBP-25 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC175/45	-	-	100?	-	(Kura)
1975-A53	2442685.35	1975 Sep 29 2030	UR-100K	-	64146-43-156P	15A20 UBP-26 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC175/45	-	-	20?	-	(Kura)
1975-S25	2442695.64	1975 Oct 10 0325	UR-100K	-	47656-131	15A20S LKI-1	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1975-S26	2442715.53	1975 Oct 30 0040	UR-100K	-	64146-43-157P	15A20 UBP-27 ZP	1 BB RA64	MGCh 15F202	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S387	2442777.50	1976?	UR-100K	-	T02K	15A20 47 RD UBP-2	Duga-1	-	-	YSNYA	-	-	-	1000?	-	-
1976-S32	2442777.50	1976	UR-100K	-	-	15A20S LKI-2	-	-	-	NIIP-5	-	-	-	1000?	-	-
1976-S33	2442807.50	1976 Jan 30	UR-100U	-	-	15A20U UBP-1 K	RGCh	-	-	NIIP-5	LC131N/57	-	-	1000?	-	Kura
1976-S23	2442808.50	1976 Jan 31	UR-100K	-	-	15A20S LKI-3	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S376	2442827.50	1976 Feb 19	UR-100M	-	-	8K84M 10 RD UBP-6	-	-	-	KOSTR	LC2/8	-	-	1000?	-	Kura
1976-S24	2442888.50	1976 Apr 20	UR-100K	-	-	15A20S LKI-4	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S25	2442918.50	1976 May 20	UR-100K	-	-	15A20S LKI-5	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S26	2442918.50	1976 May 20?	UR-100K	-	-	15A20S LKI-6	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1976-S27	2443016.50	1976 Aug 26	UR-100K	-	-	15A20S LKI-7	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S28	2443072.50	1976 Oct 21	UR-100K	-	-	15A20S LKI-8	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S29	2443079.62	1976 Oct 28 0259	UR-100K	-	64146-136(6L)	15A20-T-OCh LKI-1	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1976-S30	2443108.50	1976 Nov 26	UR-100K	-	-	15A20S LKI-9	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1976-S31	2443120.50	1976 Dec 8	UR-100K	-	-	15A20S LKI-10	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S348	2443143.50	1977	UR-100K	-	-	15A20 54 RD UBP-2	-	-	-	TEYK	-	-	-	1000?	-	Kura
1977-S350	2443143.50	1977?	UR-100K	-	K01	15A20 47 RD UBP-3	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S351	2443143.50	1977?	UR-100K	-	K02	15A20 47 RD UBP-4	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S352	2443143.50	1977?	UR-100K	-	K03	15A20 47 RD UBP-5	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S353	2443143.50	1977?	UR-100K	-	K04	15A20 47 RD UBP-6	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S354	2443143.50	1977?	UR-100K	-	K05	15A20 47 RD UBP-7	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S355	2443143.50	1977?	UR-100K	-	K06	15A20 47 RD UBP-8	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S356	2443143.50	1977?	UR-100K	-	K07	15A20 47 RD UBP-9	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S357	2443143.50	1977?	UR-100K	-	K08	15A20 47 RD UBP-10	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1977-S23	2443184.50	1977 Feb 10 0000	UR-100K	-	47622-127(17L)	15A20-T-VCh LKI-1	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1977-S24	2443184.60	1977 Feb 10 0230	UR-100K	-	64122-126(16L)	15A20-T-VCh LKI-2	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S25	2443221.07	1977 Mar 18 1340	UR-100K	-	52422-128(18L)	15A20-T-VCh LKI-3	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S26	2443249.06	1977 Apr 15 1320	UR-100K	-	64122-129(19L)	15A20-T-VCh LKI-4	1 BB 15F843	MGCh 15F842	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S474	2443320.50	1977 Jun 26	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/5/7	-	-	1000?	-	Pacific

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1977-S475	2443321.50	1977 Jun 27	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/5/7	-	-	1000?	-	Pacific
1977-S349	2443386.50	1977 Sep	UR-100U	-	-	15A20U 54 RD UBP-3	-	-	-	TEYK	-	-	-	1000?	-	Kura
1977-S27	2443422.50	1977 Oct 6	UR-100K	-	-	15A20S LKI-11	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S28	2443437.85	1977 Oct 21 0825	UR-100K	-	52432-122(12L)	15A20-T-OCh LKI-2	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC131/28	-	-	1000?	-	Kura
1977-S29	2443444.50	1977 Oct 28	UR-100K	-	-	15A20S LKI-12? K	3 BB 15F204	RGCh 15F202P2	-	NIIP-5	LC175/45	-	-	1000?	-	Kura
1977-S462	2443461.50	1977 Nov 14	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/1	-	-	1000?	-	Pacific
1977-S463	2443462.50	1977 Nov 15	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/3	-	-	1000?	-	Pacific
1977-S464	2443465.50	1977 Nov 18	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/2	-	-	1000?	-	Pacific
1977-S465	2443465.50	1977 Nov 18	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/7	-	-	1000?	-	Pacific
1977-S466	2443465.50	1977 Nov 18	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/8	-	-	1000?	-	Pacific
1977-S467	2443465.50	1977 Nov 18	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/9	-	-	1000?	-	Pacific
1977-S468	2443476.50	1977 Nov 29	UR-100U	-	-	15A20U UBP	Duga-1	-	-	DROV	LC830/3/10	-	-	1000?	-	Pacific
1978-S359	2443508.50	1978?	UR-100M	-	-	8K84M UBP	-	-	-	NIIP-5?	-	-	-	1000?	-	Kura
1978-S362	2443508.50	1978?	UR-100M	-	-	8K84M UBP	-	-	-	NIIP-5?	-	-	-	1000?	-	Kura
1978-S291	2443508.50	1978?	UR-100K	-	K09	15A20U 47 RD UBP-11	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S292	2443508.50	1978?	UR-100K	-	K10	15A20U 47 RD UBP-12	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S369	2443508.50	1978?	UR-100K	-	K11	15A20U 47 RD UBP-13	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S375	2443508.50	1978?	UR-100K	-	K12	15A20U 47 RD UBP-14	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S370	2443508.50	1978?	UR-100K	-	K13	15A20U 47 RD UBP-15	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S371	2443508.50	1978?	UR-100K	-	K14	15A20U 47 RD UBP-16	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S372	2443508.50	1978?	UR-100K	-	K15	15A20U 47 RD UBP-17	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S373	2443508.50	1978?	UR-100K	-	K16	15A20U 47 RD UBP-18	Duga-1	-	-	YSNYA	-	-	-	1000?	-	Pacific
1978-S293	2443653.50	1978 May 25	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/8	-	-	1000?	-	Pacific
1978-S294	2443659.50	1978 May 31	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/7	-	-	1000?	-	Pacific
1978-S295	2443661.50	1978 Jun 2	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/2	-	-	1000?	-	Pacific
1978-S296	2443661.50	1978 Jun 2	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/3	-	-	1000?	-	Pacific
1978-S297	2443661.50	1978 Jun 2	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/5	-	-	1000?	-	Pacific
1978-S298	2443661.50	1978 Jun 2	UR-100K	-	-	15A20 UBP	Duga-1	-	-	DROV	LC830/2/6	-	-	1000?	-	Pacific
1978-S321	2443680.50	1978 Jun 21	UR-100M	?	-	Unk Missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1978-S344	2443685.50	1978 Jun 26	UR-100U	-	-	15A20U RGCh	Duga-1	-	-	DROV	LC830/2/4	-	-	1000?	-	Pacific
1978-S345	2443783.50	1978 Oct 2	UR-100U	-	-	15A20U RGCh	Duga-1	-	-	DROV	LC830/2/1	-	-	1000?	-	Pacific
1978-S322	2443841.50	1978 Nov 29?	UR-100M	?	-	Unk Missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1979-S289	2444088.50	1979 Aug 3	UR-100M	-	-	8K84M 10 RD UBP-7	-	-	-	KOSTR	LC12/7	-	-	1000?	-	Kura
1980-S275	2444238.50	1980	UR-100K	-	-	15A20 54 RD UBP-4	-	-	-	TEYK	-	-	-	1000?	-	Kura
1980-S276	2444238.50	1980	UR-100K	-	-	15A20 54 RD UBP-5	-	-	-	TEYK	-	-	-	1000?	-	Kura
1980-S280	2444238.50	1980	UR-100K	-	-	15A20 54 RD UBP-6	-	-	-	TEYK	-	-	-	1000?	-	Kura
1980-S303	2444238.50	1980	UR-100M	-	-	8K84M UBP	-	-	-	KOSTR?	-	-	-	1000?	-	Kura
1981-S281	2444604.50	1981	UR-100M	-	-	8K84M UBP	-	-	-	KOSTR?	-	-	-	1000?	-	Kura
1981-S241	2444847.50	1981 Sep	UR-100U	-	-	15A20U 36 RD UBP-1	Vostok-81	-	-	KRAS	-	-	-	1000?	-	Kura
1981-S242	2444847.50	1981 Sep	UR-100U	-	-	15A20U 36 RD UBP-2	Vostok-81	-	-	KRAS	-	-	-	1000?	-	Kura
1981-S235	2444858.50	1981 Sep 11	UR-100U	-	-	15A20U 52 RD UBP	-	-	-	BERSH	LC6/4	-	-	1000?	-	-
1982-S263	2444969.50	1982	UR-100K	-	-	15A20 54 RD UBP-7	-	-	-	TEYK	-	-	-	1000?	-	Kura
1982-S264	2445109.50	1982 May 20	UR-100M	-	-	8K84M 10 RD UBP-8	-	-	-	KOSTR	LC12/8	-	-	1000?	-	Kura
1982-S269	2445131.50	1982 Jun 11	UR-100K	-	-	15A20 52 RD UBP	-	-	-	BERSH	-	-	-	1000?	-	-
1982-S297	2445138.50	1982 Jun 18	UR-100U	-	-	15A20U UBP	-	-	-	BERSH	LC4/1	-	-	1000?	-	Kura
1982-S298	2445138.50	1982 Jun 18	UR-100U	-	-	15A20U UBP	-	-	-	BERSH	LC4/9	-	-	1000?	-	Kura
1982-S270	2445194.50	1982 Aug 13	UR-100U	-	-	15A20U 36 RD UBP-3	-	-	-	KRAS	LC620/6	-	-	1000?	-	Kura
1983-S268	2445334.50	1983	UR-100U	-	-	15A20U 54 RD UBP-8	-	-	-	TEYK	-	-	-	1000?	-	-
1983-S269	2445334.50	1983	UR-100U	-	-	15A20U 54 RD UBP-9	-	-	-	TEYK	-	-	-	1000?	-	-
1983-S270	2445396.50	1983 Mar 3	UR-100M	-	-	8K84M 10 RD UBP-9	-	-	-	KOSTR	LC12/10	-	-	1000?	-	-
1983-S271	2445396.50	1983 Mar 3	UR-100M	-	-	8K84M 10 RD UBP-10	-	-	-	KOSTR	LC12/3	-	-	1000?	-	-
1984-S31	2445699.50	1984	UR-100M	-	-	OT	-	-	-	NIIP-5	-	-	-	1000?	-	-
1984-S32	2445699.50	1984	UR-100M	-	-	OT	-	-	-	NIIP-5	-	-	-	1000?	-	-
1984-S33	2445699.50	1984	UR-100M	-	-	OT	-	-	-	NIIP-5	-	-	-	1000?	-	-
1984-S239	2445845.50	1984 May 25	UR-100K	-	-	15A20 52 RD UBP	-	-	-	BERSH	LC6/1	-	-	1000?	-	Kura
1985-S269	2446065.50	1985	UR-100U	-	-	15A20U 54 RD UBP-10	-	-	-	TEYK	-	-	-	1000?	-	Kura
1986-S185	2446531.50	1986 Apr 11	UR-100U	-	-	15A20U 36 RD UBP-4	-	-	-	KRAS	LC620/2	-	-	1000?	-	Kura
1986-S183	2446587.50	1986 Jun 6	UR-100U	-	-	15A20U 52 RD UBP	-	-	-	BERSH	LC1/8	-	-	1000?	-	Kura
1987-S223	2446795.50	1987	UR-100K	-	-	15A20 54 RD UBP-11	-	-	-	TEYK	LC15/7/1	-	-	1000?	-	Kura
1987-S224	2446795.50	1987	UR-100K	-	-	15A20 54 RD UBP-12	-	-	-	TEYK	LC15/7/9	-	-	1000?	-	Kura
1987-S225	2446795.50	1987	UR-100K	-	-	15A20 54 RD UBP-13	-	-	-	TEYK	LC15/7/1	-	-	1000?	-	Kura
1987-S228	2446816.50	1987 Jan 21	UR-100U	-	-	15A20U 52 RD UBP	RGCh	-	-	BERSH	LC6/7	-	-	1000?	-	Kura
1988-S194	2447160.50	1988	UR-100U	-	-	15A20U 54 RD UBP	RGCh	-	-	TEYK	LC15/8/7	-	-	1000?	-	Kura
1988-S195	2447160.50	1988	UR-100U	-	-	15A20U 54 RD UBP	RGCh	-	-	TEYK	LC15/8/7	-	-	1000?	-	Kura
1989-S132	2447579.50	1989 Feb 22	UR-100U	-	-	15A20U 52 RD UBP	RGCh	-	-	BERSH	LC7/1	-	-	1000?	-	Kura
1989-S133	2447784.50	1989 Sep 15	UR-100U	-	-	15A20U 52 RD UBP	RGCh	-	-	BERSH	LC6/4	-	-	1000?	-	Kura
1990-S191	2448089.50	1990 Jul 17	UR-100U	-	-	15A20U 52 RD UBP	RGCh	-	-	BERSH	LC6/4	-	-	1000?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S241	2438869.60	1965 Apr 19 0220	UR-100	-	U 10741-601	0.000	RVSN	MS	-	-	Test	Glazami	Evteev	-
1965-A74	2438900.66	1965 May 20 0345	UR-100	-	-	0.000	RVSN	MF	U	-	Test	MS5-65	AVMS	-
1965-A87	2438930.50	1965 Jun 19	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-S18	2438935.50	1965 Jun 24	UR-100	-	-	0.000	RVSN	MS	-	-	Test	Glazami	-	-
1965-A97	2438951.50	1965 Jul 10	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RFX	-	-
1965-A102	2438958.78	1965 Jul 17 0640	UR-100	-	22942-001	0.000	RVSN	ME	-	-	Test	Glazami	Evteev	-
1965-S20	2438965.50	1965 Jul 24	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-A116	2438972.50	1965 Jul 31	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-S21	2439003.50	1965 Aug 31	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S19	2439020.50	1965 Sep 17	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RFX	-	-
1965-A132	2439028.92	1965 Sep 25 1003	UR-100	-	U 22943-201	0.000	RVSN	MF	U	-	Test	RML	RPCA	[Jun25]?
1965-S22	2439037.50	1965 Oct 4	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S23	2439039.50	1965 Oct 6	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S24	2439052.50	1965 Oct 19	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S25	2439052.50	1965 Oct 19	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S26	2439065.50	1965 Nov 1	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-A154	2439067.50	1965 Nov 3	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-A158	2439069.50	1965 Nov 5	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-A170	2439094.50	1965 Nov 30	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-S27	2439111.50	1965 Dec 17	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-A173	2439113.50	1965 Dec 19	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-S28	2439123.50	1965 Dec 29	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1965-A174	2439124.50	1965 Dec 30	UR-100	-	-	0.000	RVSN	MF	U	-	Test	RFX	-	-
1965-S796	2439124.50	1965 Dec 30	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1966-S17	2439212.50	1966 Mar 28	UR-100	-	N 10744-308	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S18	2439216.50	1966 Apr 1	UR-100	-	N 10744-303	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S19	2439227.50	1966 Apr 12	UR-100	-	N 10744-311	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-A55	2439236.50	1966 Apr 21	UR-100	-	N 22944-306	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1966-S20	2439239.74	1966 Apr 24 0543	UR-100	-	N 10744-312	0.000	RVSN	MS	-	-	OT	BML	-	-
1966-S21	2439243.50	1966 Apr 28	UR-100	-	N 10701-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S22	2439244.50	1966 Apr 29	UR-100	-	N 22901-12P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S23	2439275.50	1966 May 30	UR-100	-	N 10744-351	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S24	2439284.50	1966 Jun 8	UR-100	-	N 10744-352	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1966-A76	2439287.50	1966 Jun 11	UR-100	-	-	0.000	RVSN	MF	U	-	OT	RFX	-	-
1966-S25	2439305.50	1966 Jun 29	UR-100	-	N 22944-307	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S26	2439311.50	1966 Jul 5	UR-100	-	N 229 001	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S27	2439324.50	1966 Jul 18	UR-100	-	N 229 002	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S28	2439334.50	1966 Jul 28	UR-100	?	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S29	2439338.50	1966 Aug 1	UR-100	-	N 10744-310	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S30	2439340.50	1966 Aug 3	UR-100	-	N 10744-357	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S31	2439341.50	1966 Aug 4	UR-100	-	N 10744-304	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S32	2439346.50	1966 Aug 9	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S33	2439348.50	1966 Aug 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S34	2439349.50	1966 Aug 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-A99	2439352.50	1966 Aug 15	UR-100	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1966-S35	2439354.50	1966 Aug 17	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S36	2439357.50	1966 Aug 20	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S37	2439361.50	1966 Aug 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S38	2439362.50	1966 Aug 25	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S39	2439364.50	1966 Aug 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S40	2439367.50	1966 Aug 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S41	2439370.50	1966 Sep 2	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S42	2439374.50	1966 Sep 6	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S43	2439380.50	1966 Sep 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S44	2439384.50	1966 Sep 16	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S45	2439399.50	1966 Oct 1	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S46	2439403.50	1966 Oct 5	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S47	2439405.50	1966 Oct 7	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S48	2439419.50	1966 Oct 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S565	2439425.50	1966 Oct 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	Glazami	-	-
1966-S49	2439446.50	1966 Nov 17	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S50	2439448.50	1966 Nov 19	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S51	2439451.50	1966 Nov 22	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S52	2439460.50	1966 Dec 1	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S53	2439467.50	1966 Dec 8	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S54	2439471.50	1966 Dec 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S55	2439475.50	1966 Dec 16	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S56	2439485.50	1966 Dec 26	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1966-S57	2439486.50	1966 Dec 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S782	2439490.50	1967	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1967-S26	2439504.50	1967 Jan 14	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1967-A53	2439515.50	1967 Jan 25	UR-100	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1967-S27	2439551.50	1967 Mar 2	UR-100	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	RML
1967-S28	2439567.50	1967 Mar 18	UR-100	-	Ya10701-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S29	2439572.50	1967 Mar 23	UR-100	-	Ya10702-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S30	2439574.50	1967 Mar 25	UR-100	-	Ya22902-23P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S31	2439601.50	1967 Apr 21	UR-100	-	Ya22903-23P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S32	2439606.50	1967 Apr 26	UR-100	-	Ya10703-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S33	2439655.50	1967 Jun 14	UR-100	-	Ya22904-23P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S34	2439662.50	1967 Jun 21	UR-100	-	Ya10704-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S741	2439691.50	1967 Jul 20	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S740	2439691.50	1967 Jul 20	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S35	2439705.50	1967 Aug 3	UR-100	-	Ya22905-23P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S36	2439733.50	1967 Aug 31	UR-100	-	Ya10704-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S37	2439735.50	1967 Sep 2	UR-100	-	Ya22906-23P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S38	2439753.50	1967 Sep 20	UR-100	-	Ya10744-376	0.000	RVSN	MS	-	-	OT	RPCA	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-S39	2439753.50	1967 Sep 20	UR-100	-	Ya10744-378	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S40	2439754.50	1967 Sep 21	UR-100	-	Ya22901-24P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S41	2439765.50	1967 Oct 2	UR-100	-	Ya10744-379	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S42	2439769.50	1967 Oct 6	UR-100	-	Ya10744-372	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S43	2439786.50	1967 Oct 23	UR-100	-	Ya226 01U	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S44	2439792.50	1967 Oct 29	UR-100	-	Ya10706-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S45	2439792.50	1967 Oct 29	UR-100	-	Ya226 02U	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S46	2439808.50	1967 Nov 14	UR-100	-	Ya22601-01T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S47	2439819.50	1967 Nov 25	UR-100	-	Ya10702-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S48	2439822.50	1967 Nov 28	UR-100	-	Ya10744-377	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S49	2439838.50	1967 Dec 14	UR-100	-	Ya10706-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S50	2439839.50	1967 Dec 15	UR-100	-	Ya10705-13T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1967-S51	2439845.50	1967 Dec 21	UR-100	-	Ya22906-24P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S76	2439855.50	1968	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S730	2439855.50	1968?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S731	2439855.50	1968?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S732	2439855.50	1968?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S50	2439893.50	1968 Feb 7	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S51	2439899.50	1968 Feb 13	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S740	2439915.50	1968 Mar	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S52	2439937.50	1968 Mar 22	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S53	2439943.50	1968 Mar 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S54	2439945.50	1968 Mar 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S55	2439951.50	1968 Apr 5	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S56	2440013.50	1968 Jun 6	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S769	2440014.50	1968 Jun 7	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S770	2440014.50	1968 Jun 7	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1968-S57	2440019.50	1968 Jun 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S58	2440031.50	1968 Jun 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S59	2440039.50	1968 Jul 2	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S60	2440043.50	1968 Jul 6	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S61	2440046.50	1968 Jul 9	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S62	2440047.50	1968 Jul 10	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S63	2440050.50	1968 Jul 13	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S64	2440085.50	1968 Aug 17	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S65	2440095.50	1968 Aug 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S66	2440098.50	1968 Aug 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S67	2440115.50	1968 Sep 16	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S68	2440141.50	1968 Oct 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S69	2440148.50	1968 Oct 19	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S70	2440157.50	1968 Oct 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S71	2440158.50	1968 Oct 29	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S72	2440181.50	1968 Nov 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S73	2440194.50	1968 Dec 4	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S74	2440202.50	1968 Dec 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1968-S75	2440214.50	1968 Dec 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S746	2440221.50	1969?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	RML68
1969-S747	2440221.50	1969?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S748	2440221.50	1969?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S749	2440221.50	1969?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S24	2440242.50	1969 Jan 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S25	2440249.50	1969 Jan 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S26	2440252.50	1969 Jan 31	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S27	2440301.50	1969 Mar 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S28	2440335.50	1969 Apr 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S29	2440340.50	1969 Apr 29	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S30	2440364.50	1969 May 23	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S31	2440372.50	1969 May 31	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S32	2440379.50	1969 Jun 7	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S33	2440382.50	1969 Jun 10	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S34	2440399.50	1969 Jun 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S35	2440412.50	1969 Jul 10	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S36	2440420.50	1969 Jul 18	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S414	2440425.73	1969 Jul 23 0530	UR-100K	-	Yu10761-001	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom9912	-
1969-S750	2440426.50	1969 Jul 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S751	2440429.50	1969 Jul 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1969-S37	2440430.50	1969 Jul 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S46	2440448.71	1969 Aug 15 0500	UR-100K	-	Yu10761-002	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S38	2440451.50	1969 Aug 18	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S39	2440461.50	1969 Aug 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S47	2440476.63	1969 Sep 12 0304	UR-100K	-	Yu10761-003	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S40	2440491.50	1969 Sep 27	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S48	2440493.70	1969 Sep 29 0450	UR-100K	-	Yu10761-004	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S41	2440494.50	1969 Sep 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S49	2440505.50	1969 Oct 11 0000	UR-100K	-	Yu10761-005	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S42	2440517.50	1969 Oct 23	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S43	2440518.50	1969 Oct 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S44	2440523.50	1969 Oct 29	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1969-S50	2440523.54	1969 Oct 29 0103	UR-100K	-	Yu10761-006	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S51	2440526.65	1969 Nov 1 0342	UR-100K	-	Yu10761-007	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1969-S45	2440559.50	1969 Dec 4	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1970-S776	2440586.50	1970?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S31	2440592.63	1970 Jan 6 0305	UR-100K	-	Yu10761-009	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S17	2440602.50	1970 Jan 16	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S32	2440605.60	1970 Jan 19 0230	UR-100K	-	Yu10761-008	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S765	2440634.50	1970 Feb 17	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S33	2440635.59	1970 Feb 18 0207	UR-100K	-	Yu10761-010	0.000	RVSN	MS	-	-	Test	RPCA	-	BML0207/0430
1970-S34	2440636.59	1970 Feb 19 0209	UR-100K	-	Yu10761-011?	0.000	RVSN	MS	-	-	Test	RPCA	-	BML0209/0325
1970-S18	2440638.50	1970 Feb 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S35	2440690.67	1970 Apr 14 0410	UR-100K	-	Yu10761-012	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S36	2440693.67	1970 Apr 17 0405	UR-100K	-	Yu10761-013	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S37	2440722.68	1970 May 16 0425	UR-100K	-	Yu10761-014	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S38	2440733.69	1970 May 27 0431	UR-100K	-	Kh10761-017	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S39	2440742.76	1970 Jun 5 0615	UR-100K	-	Kh10761-016	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S20	2440748.50	1970 Jun 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S716	2440758.50	1970 Jun 21	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S40	2440759.64	1970 Jun 22 0325	UR-100K	-	Kh10761-018	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S21	2440763.50	1970 Jun 26	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S41	2440770.63	1970 Jul 3 0310	UR-100K	-	Kh10761-019	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S42	2440775.67	1970 Jul 8 0402	UR-100K	-	Yu10761-015	0.000	RVSN	MS	-	-	Test	BML	RML	-
1970-S43	2440791.68	1970 Jul 24 0422	UR-100K	-	5115761-021	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S29	2440794.73	1970 Jul 27 0537	UR-100K	-	6305761-022	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S30	2440795.71	1970 Jul 28 0502	UR-100K	-	Kh10761-020	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S46	2440819.67	1970 Aug 21 0410	UR-100K	-	4925761-023	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S47	2440820.59	1970 Aug 22 0215	UR-100K	-	5115761-024	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1970-S458	2440853.50	1970 Sep 24	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1970-S459	2440859.50	1970 Sep 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1970-S24	2440863.50	1970 Oct 4	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S48	2440874.65	1970 Oct 15 0332	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1970-S44	2440880.68	1970 Oct 21 0413	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1970-S25	2440882.50	1970 Oct 23	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S722	2440887.50	1970 Oct 28	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1970-S26	2440889.50	1970 Oct 30	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S27	2440890.50	1970 Oct 31	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S717	2440901.50	1970 Nov 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S718	2440901.50	1970 Nov 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S719	2440901.50	1970 Nov 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S720	2440901.50	1970 Nov 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S761	2440901.50	1970 Nov 11	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1970-S723	2440902.25	1970 Nov 11 1753	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1970-S721	2440902.50	1970 Nov 12	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S28	2440918.50	1970 Nov 28	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1970-S22	2440924.50	1970 Dec 4	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S23	2440930.50	1970 Dec 10	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S448	2440938.50	1970 Dec 18	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S453	2440942.50	1970 Dec 22	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1970-S45	2440943.61	1970 Dec 23 0237	UR-100K	-	4925751-147T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1970-A141	2440948.61	1970 Dec 28 0233	UR-100K	-	4764732-1P	0.000	RVSN	MF	U	-	OT	BML	RPCA	St2Fail3:44
1971-S674	2440951.50	1971?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	RML70
1971-S675	2440951.50	1971?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	RML70
1971-S39	2440970.65	1971 Jan 19 0340	UR-100K	-	5244732-2P	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1971-S40	2440974.59	1971 Jan 23 0215	UR-100K	-	6305761-028	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1971-S109	2440985.16	1971 Feb 2 1545	UR-100M	-	52447-322T1	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1971-S121	2440994.50	1971 Feb 12	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S41	2441021.67	1971 Mar 11 0410	UR-100K	-	5115761-027	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1971-S166	2441025.61	1971 Mar 15 0235	UR-100K	-	4764711-543P	0.000	RVSN	MS	-	-	Test	BML	Kosmodrom9912	-
1971-S42	2441034.50	1971 Mar 24	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S43	2441058.50	1971 Apr 17	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S27	2441091.50	1971 May 20	UR-100	-	8K84	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S44	2441092.50	1971 May 21	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S45	2441100.68	1971 May 29 0418	UR-100M	-	52447-322T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1971-A54	2441105.50	1971 Jun 3	UR-100	-	8K84	0.000	RVSN	MU	-	-	OT	RPCA	-	-
1971-S28	2441118.50	1971 Jun 16	UR-100U	-	15A20U?	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S676	2441118.50	1971 Jun 16	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1971-S29	2441186.50	1971 Aug 23	UR-100	-	8K84	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S46	2441196.50	1971 Sep 2	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S47	2441201.50	1971 Sep 7	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S417	2441210.50	1971 Sep 16	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1971-S32	2441221.66	1971 Sep 27 0355	UR-100U	-	4924461-053	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1971-S30	2441223.50	1971 Sep 29	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S31	2441224.50	1971 Sep 30	UR-100M	-	8K84M	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S33	2441234.50	1971 Oct 10	UR-100	-	8K84	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S38	2441244.72	1971 Oct 20 0521	UR-100M	-	64147-332T1	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1971-S34	2441245.50	1971 Oct 21	UR-100U	-	15A20U	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S35	2441279.50	1971 Nov 24	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S37	2441295.57	1971 Dec 10 0145	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1971-S684	2441296.32	1971 Dec 10 1940	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1971-S48	2441302.50	1971 Dec 17	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S49	2441307.50	1971 Dec 22	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1971-S331	2441310.50	1971 Dec 25	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S497	2441316.50	1972?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	RML70
1972-S21	2441393.50	1972 Mar 17	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S22	2441394.50	1972 Mar 18	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S23	2441403.50	1972 Mar 27	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S24	2441484.50	1972 Jun 16	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S792	2441497.50	1972 Jun 29	UR-100M	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S25	2441511.50	1972 Jul 13	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S26	2441603.75	1972 Oct 13 0600:01	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RML	-	-
1972-S27	2441608.50	1972 Oct 18	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S17	2441639.63	1972 Nov 18 0310	UR-100K	-	49257-51-148T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1972-S18	2441650.00	1972 Nov 28 1205	UR-100K	-	51173-21-179T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1972-S19	2441659.59	1972 Dec 8 0215	UR-100K	-	47653-41-273L	0.000	RVSN	MS	-	-	Test	BML	RPCA	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S28	2441663.50	1972 Dec 12	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1972-S795	2441672.50	1972 Dec 21	UR-100	-	D01	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S796	2441672.50	1972 Dec 21	UR-100	-	D02	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1972-S20	2441673.58	1972 Dec 22 0202	UR-100K	-	51173-21-180T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1972-S29	2441679.50	1972 Dec 28	UR-100U	-	-	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1973-S506	2441682.50	1973?	UR-100	-	T07	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S507	2441682.50	1973?	UR-100	-	T08	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S508	2441682.50	1973?	UR-100	-	T09	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S509	2441682.50	1973?	UR-100	-	T10	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S510	2441682.50	1973?	UR-100	-	T11	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S511	2441682.50	1973?	UR-100	-	T12	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S512	2441682.50	1973?	UR-100	-	T13	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S513	2441682.50	1973?	UR-100	-	T14	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S514	2441682.50	1973?	UR-100	-	T15	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S515	2441682.50	1973?	UR-100	-	T16	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S516	2441682.50	1973?	UR-100	-	T17	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S517	2441682.50	1973?	UR-100	-	T18	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S518	2441682.50	1973?	UR-100	-	T19	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S519	2441682.50	1973?	UR-100	-	T20	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S520	2441682.50	1973?	UR-100	-	T21	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S521	2441682.50	1973?	UR-100	-	T22	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S550	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S551	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S552	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S553	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S554	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S555	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S556	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S557	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S558	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S559	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S560	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S561	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S562	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S563	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S564	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S565	2441682.50	1973?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S566	2441682.50	1973?	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S567	2441682.50	1973?	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1973-S45	2441704.60	1973 Jan 22 0230	UR-100K	-	47653-41-27P	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S10	2441712.50	1973 Jan 30	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S46	2441758.70	1973 Mar 17 0442	UR-100K	-	47639-21-273P	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S47	2441764.65	1973 Mar 23 0340	UR-100K	-	63039-31-233T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S534	2441768.50	1973 Mar 27	UR-100M	-	D12	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S535	2441769.50	1973 Mar 28	UR-100M	-	D13	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S536	2441770.50	1973 Mar 29	UR-100M	-	D14	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S537	2441771.50	1973 Mar 30	UR-100M	-	D15	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S44	2441778.50	1973 Apr 6	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S500	2441797.50	1973 Apr 25	UR-100M	-	T01	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S498	2441831.50	1973 May 29	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S501	2441833.50	1973 Jun?	UR-100	-	T02	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S48	2441856.28	1973 Jun 22 1840	UR-100K	-	52439-22-273P	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S49	2441861.46	1973 Jun 27 2305	UR-100K	-	49239-32-216T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S522	2441863.50	1973 Jul?	UR-100	-	T23	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1973-S502	2441863.50	1973 Jul?	UR-100	-	T03	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S538	2441868.50	1973 Jul 5	UR-100	-	D16	0.000	RVSN	MS	-	-	OT	RML	BMLX	-
1973-S539	2441868.50	1973 Jul 5	UR-100	-	D17	0.000	RVSN	MS	-	-	OT	RML	BMLX	-
1973-S540	2441869.50	1973 Jul 6	UR-100	-	D18	0.000	RVSN	MS	-	-	OT	RML	BMLX	-
1973-S50	2441910.70	1973 Aug 16 0455	UR-100K	-	52439-22-274P	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S541	2441918.50	1973 Aug 24	UR-100	-	D19	0.000	RVSN	MS	-	-	OT	RML	BMLX	-
1973-S51	2441953.66	1973 Sep 28 0357	UR-100K	-	64149-23-273P	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S52	2441982.61	1973 Oct 27 0235	UR-100K	-	51159-33-234T	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S497	2441983.50	1973 Oct 28?	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	BMLX	-
1973-S503	2441986.50	1973 Nov	UR-100	-	T04	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S504	2441986.50	1973 Nov	UR-100	-	T05	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S505	2441986.50	1973 Nov	UR-100	-	T06	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1973-S344	2442020.52	1973 Dec 4 0033	UR-100K	-	49239-32-228T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1973-S353	2442042.54	1973 Dec 26 0100	UR-100K	-	47649-24-273P	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1974-S471	2442047.50	1974?	UR-100	-	T24	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S472	2442047.50	1974?	UR-100	-	T25	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S473	2442047.50	1974?	UR-100	-	T26	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S474	2442047.50	1974?	UR-100	-	T27	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S475	2442047.50	1974?	UR-100	-	T28	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S476	2442047.50	1974?	UR-100	-	T29	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S477	2442047.50	1974?	UR-100	-	T30	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S478	2442047.50	1974?	UR-100	-	T31	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S479	2442047.50	1974?	UR-100	-	T32	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S480	2442047.50	1974?	UR-100	-	T33	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S481	2442047.50	1974?	UR-100	-	T34	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S482	2442047.50	1974?	UR-100	-	T35	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S483	2442047.50	1974?	UR-100	-	T36	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S484	2442047.50	1974?	UR-100	-	T37	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S485	2442047.50	1974?	UR-100	-	T38	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S486	2442047.50	1974?	UR-100	-	T39	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S487	2442047.50	1974?	UR-100	-	T40	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S488	2442047.50	1974?	UR-100	-	T41	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-S489	2442047.50	1974?	UR-100	-	T42	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S490	2442047.50	1974?	UR-100	-	T43	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S491	2442047.50	1974?	UR-100	-	T44	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S492	2442047.50	1974?	UR-100	-	T45	0.000	RVSN	MS	-	-	OT	RPCA	BMLX	-
1974-S512	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S513	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S514	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S515	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S516	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S517	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S518	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S519	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S520	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S521	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S522	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S523	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S524	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S525	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S526	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	-
1974-S527	2442047.50	1974?	UR-100	-	-	0.000	RVSN	MS	-	-	OT	BMLX	-	RML:21SVOB
1974-S499	2442074.50	1974 Jan 27	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S500	2442098.50	1974 Feb 20	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S501	2442105.50	1974 Feb 27	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S33	2442132.65	1974 Mar 26 0340	UR-100K	-	63011-61-263T	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S34	2442136.60	1974 Mar 30 0230	UR-100K	-	47611-51-143P	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S567	2442161.50	1974 Apr 24	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S568	2442161.50	1974 Apr 24	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S561	2442162.50	1974 Apr 25	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S562	2442162.50	1974 Apr 25	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S563	2442163.50	1974 Apr 26	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S564	2442163.50	1974 Apr 26	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S565	2442163.50	1974 Apr 26	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1974-S36	2442197.04	1974 May 29 1300	UR-100K	-	49211-62-263T	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S35	2442224.67	1974 Jun 26 0410	UR-100K	-	52411-52-143P	0.000	RVSN	MS	-	-	OT	BML	-	-
1974-S502	2442224.67	1974 Jun 26 0410	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S503	2442253.50	1974 Jul 25	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S493	2442228.50	1974 Jul	UR-100	-	T46	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S494	2442228.50	1974 Jul	UR-100	-	T47	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1974-S37	2442253.54	1974 Jul 25 0100	UR-100K	-	49211-62-264T	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S38	2442283.25	1974 Aug 23 1800	UR-100K	-	47611-51-144P	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S504	2442294.32	1974 Sep 3 1940	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-A35	2442295.50	1974 Sep 5	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	BML	-	-
1974-S505	2442295.50	1974 Sep 5	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S506	2442306.50	1974 Sep 16	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S507	2442307.50	1974 Sep 17	UR-100	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1974-S31	2442307.50	1974 Sep 17	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	BML	-	-
1974-S39	2442310.65	1974 Sep 20 0340	UR-100K	-	51121-63-263T	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1974-S32	2442338.50	1974 Oct 18	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1974-S40	2442399.46	1974 Dec 17 2300	UR-100K	-	47621-51-144P	0.000	RVSN	MS	-	-	Test	RFX	-	BML: 17/2300,18/0150
1975-S389	2442412.50	1975?	UR-100K	-	T01K	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S22	2442439.50	1975 Jan 27	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1975-S23	2442468.62	1975 Feb 25 0250	UR-100K	-	47656-41-143P	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1975-S24	2442555.21	1975 May 22 1703	UR-100K	-	52456-42-157P	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1975-S374	2442561.50	1975 May 29	UR-100	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S433	2442595.50	1975 Jul 2	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1975-A51	2442660.61	1975 Sep 5 0235	UR-100K	-	64146-43-155P	0.000	RVSN	MF	U	-	OT	BML	XPC	St2Fail132s
1975-A53	2442685.35	1975 Sep 29 2030	UR-100K	-	64146-43-156P	0.000	RVSN	MF	U	-	OT	BML	XPC	St1Fail90s
1975-S25	2442695.64	1975 Oct 10 0325	UR-100K	-	47656-131	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1975-S26	2442715.53	1975 Oct 30 0040	UR-100K	-	64146-43-157P	0.000	RVSN	MS	-	-	OT	BML	XPC	XPC:Oct 20
1976-S387	2442777.50	1976?	UR-100K	-	T02K	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S32	2442777.50	1976	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1976-S33	2442807.50	1976 Jan 30	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S23	2442808.50	1976 Jan 31	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S376	2442827.50	1976 Feb 19	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S24	2442888.50	1976 Apr 20	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S25	2442918.50	1976 May 20	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S26	2442918.50	1976 May 20?	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	BML	-	-
1976-S27	2443016.50	1976 Aug 26	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S28	2443072.50	1976 Oct 21	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S29	2443079.62	1976 Oct 28 0259	UR-100K	-	64146-136(6L)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-S30	2443108.50	1976 Nov 26	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S31	2443120.50	1976 Dec 8	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S348	2443143.50	1977	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S350	2443143.50	1977?	UR-100K	-	K01	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S351	2443143.50	1977?	UR-100K	-	K02	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S352	2443143.50	1977?	UR-100K	-	K03	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S353	2443143.50	1977?	UR-100K	-	K04	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S354	2443143.50	1977?	UR-100K	-	K05	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S355	2443143.50	1977?	UR-100K	-	K06	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S356	2443143.50	1977?	UR-100K	-	K07	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S357	2443143.50	1977?	UR-100K	-	K08	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S23	2443184.50	1977 Feb 10 0000	UR-100K	-	47622-127(17L)	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1977-S24	2443184.60	1977 Feb 10 0230	UR-100K	-	64122-126(16L)	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1977-S25	2443221.07	1977 Mar 18 1340	UR-100K	-	52422-128(18L)	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1977-S26	2443249.06	1977 Apr 15 1320	UR-100K	-	64122-129(19L)	0.000	RVSN	MS	-	-	Test	BML	XPC	-
1977-S474	2443320.50	1977 Jun 26	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1977-S475	2443321.50	1977 Jun 27	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S349	2443386.50	1977 Sep	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1977-S27	2443422.50	1977 Oct 6	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1977-S28	2443437.85	1977 Oct 21 0825	UR-100K	-	52432-122(12L)	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1977-S29	2443444.50	1977 Oct 28	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1977-S462	2443461.50	1977 Nov 14	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S463	2443462.50	1977 Nov 15	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S464	2443465.50	1977 Nov 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S465	2443465.50	1977 Nov 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S466	2443465.50	1977 Nov 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S467	2443465.50	1977 Nov 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1977-S468	2443476.50	1977 Nov 29	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S359	2443508.50	1978?	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S362	2443508.50	1978?	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S291	2443508.50	1978?	UR-100K	-	K09	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S292	2443508.50	1978?	UR-100K	-	K10	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S369	2443508.50	1978?	UR-100K	-	K11	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S375	2443508.50	1978?	UR-100K	-	K12	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S370	2443508.50	1978?	UR-100K	-	K13	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S371	2443508.50	1978?	UR-100K	-	K14	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S372	2443508.50	1978?	UR-100K	-	K15	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S373	2443508.50	1978?	UR-100K	-	K16	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1978-S293	2443653.50	1978 May 25	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S294	2443659.50	1978 May 31	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S295	2443661.50	1978 Jun 2	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S296	2443661.50	1978 Jun 2	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S297	2443661.50	1978 Jun 2	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S298	2443661.50	1978 Jun 2	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S321	2443680.50	1978 Jun 21	UR-100M	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1978-S344	2443685.50	1978 Jun 26	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S345	2443783.50	1978 Oct 2	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1978-S322	2443841.50	1978 Nov 29?	UR-100M	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1979-S289	2444088.50	1979 Aug 3	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1980-S275	2444238.50	1980	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1980-S276	2444238.50	1980	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1980-S280	2444238.50	1980	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1980-S303	2444238.50	1980	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1981-S281	2444604.50	1981	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S241	2444847.50	1981 Sep	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S242	2444847.50	1981 Sep	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S235	2444858.50	1981 Sep 11	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S263	2444969.50	1982	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1982-S264	2445109.50	1982 May 20	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S269	2445131.50	1982 Jun 11	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S297	2445138.50	1982 Jun 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1982-S298	2445138.50	1982 Jun 18	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1982-S270	2445194.50	1982 Aug 13	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S268	2445334.50	1983	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1983-S269	2445334.50	1983	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1983-S270	2445396.50	1983 Mar 3	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S271	2445396.50	1983 Mar 3	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1984-S31	2445699.50	1984	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1984-S32	2445699.50	1984	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1984-S33	2445699.50	1984	UR-100M	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1984-S239	2445845.50	1984 May 25	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S269	2446065.50	1985	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1986-S185	2446531.50	1986 Apr 11	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1986-S183	2446587.50	1986 Jun 6	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1987-S223	2446795.50	1987	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1987-S224	2446795.50	1987	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1987-S225	2446795.50	1987	UR-100K	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1987-S228	2446816.50	1987 Jan 21	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1988-S194	2447160.50	1988	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1988-S195	2447160.50	1988	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RML	-	-
1989-S132	2447579.50	1989 Feb 22	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1989-S133	2447784.50	1989 Sep 15	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1990-S191	2448089.50	1990 Jul 17	UR-100U	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-A100	2441356.67	1972 Feb 9 0400	UR-100N	-	51144-70-801	15A30 BI-1	Silo eject test	-	-	NIIP-5	LC131/29	-	-	1	-	NIIP-5
1972-A02	2441491.50	1972 Jun 23	UR-100N	-	63013-70-802	15A30 BI-2	-	-	-	NIIP-5	LC131/29	-	-	0?	-	NIIP-5
1973-S146	2441781.72	1973 Apr 9 0515	UR-100N	-	51173-72-001	15A30 LKI-1	6 BB 15F305/RA74	RGCh 15B103T	-	NIIP-5	LC174/44	-	-	100?	-	(Kura)
1973-S192	2441839.79	1973 Jun 6 0653	UR-100N	-	51173-72-002	15A30 LKI-2	6 BB 15F305/RA74	RGCh 15B103T	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1973-S218	2441894.73	1973 Jul 31 0530	UR-100N	-	51139-72-003	15A30 LKI-3	6 BB 15F305/RA74	RGCh 15B103T	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1973-S261	2441925.72	1973 Aug 31 0510	UR-100N	-	51159-72-005	15A30 LKI-4	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1973-S290	2441942.73	1973 Sep 17 0525	UR-100N	-	51159-72-004	15A30 LKI-5	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1973-S291	2441949.70	1973 Sep 24 0455	UR-100N	-	51159-72-006	15A30 LKI-6	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1973-S335	2441973.50	1973 Oct 18	UR-100N	-	51159-72-007	15A30 LKI-7	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1973-S376	2442008.50	1973 Nov 22	UR-100N	-	51159-72-008	15A30 LKI-8	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1973-S413	2442037.50	1973 Dec 21	UR-100N	-	51159-72-009	15A30 LKI-9	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1973-S450	2442043.50	1973 Dec 27	UR-100N	-	51159-72-011	15A30 LKI-10	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1974-S76	2442073.50	1974 Jan 26	UR-100N	-	- 2-013	15A30 LKI-11	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1974-S79	2442074.50	1974 Jan 27	UR-100N	-	- 2-012	15A30 LKI-12	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1974-S105	2442106.50	1974 Feb 28	UR-100N	-	- 2-010	15A30 LKI-13	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Pacific
1974-S112	2442111.50	1974 Mar 5	UR-100N	-	- 2-014	15A30 LKI-14	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1974-S41	2442135.50	1974 Mar 29	UR-100N	-	- 2-015	15A30 LKI-15	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1974-S42	2442194.50	1974 May 27	UR-100N	-	- 2-016	15A30 LKI-16	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1974-S43	2442198.50	1974 May 31	UR-100N	-	- 2-017	15A30 LKI-17	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1974-S245	2442234.50	1974 Jul 6	UR-100N	-	- 2-019	15A30 LKI-18	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1974-S44	2442268.50	1974 Aug 9	UR-100N	-	- 2-020	15A30 LKI-19	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1974-S45	2442320.50	1974 Sep 30	UR-100N	-	- 2-024	15A30 LKI-20	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1974-S46	2442353.50	1974 Nov 2	UR-100N	-	- 2-025	15A30 LKI-21	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1974-S47	2442389.50	1974 Dec 8	UR-100N	-	51121-72-026	15A30 LKI-22	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1974-S48	2442399.58	1974 Dec 18 0150	UR-100N	-	51121-61-259T	15A30 LKI-23	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1974-S49	2442403.50	1974 Dec 22	UR-100N	-	- 2-021	15A30 LKI-24	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1974-S50	2442406.50	1974 Dec 25	UR-100N	-	- 2-022	15A30 LKI-25	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1975-S27	2442507.50	1975 Apr 5	UR-100N	-	63046-41-381P	15A30 UBP-1 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1975-A39	2442579.50	1975 Jun 16	UR-100N	-	63046-41-382T	15A30 UBP-2 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	20?	-	(Pacific)
1975-A42	2442597.50	1975 Jul 4	UR-100N	-	51121-72-027	15A30 UBP-3 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	20?	-	(Pacific)
1975-S28	2442653.50	1975 Aug 29	UR-100N	-	51156-79-001T	15A30 UBP-4	1 BB 15F306	MGCh 15B126	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1975-S29	2442675.50	1975 Sep 20	UR-100N	-	49256-42-378T	15A30 UBP-5 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44?	-	-	1000?	-	Kura
1975-S30	2442698.50	1975 Oct 13	UR-100N	-	63056-41-383T	15A30 UBP-6 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1976-S34	2442826.50	1976 Feb 18	UR-100N	-	51122-81-435T	15A30 UBP-7 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC179/42	-	-	1000?	-	Kura
1976-S35	2442849.50	1976 Mar 12	UR-100N	-	51156-79-003T	15A30 LKI-B1	1 BB 15F306	MGCh 15B126	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1976-S36	2442915.59	1976 May 17 0215	UR-100N	-	51156-79-005T	15A30 LKI-B2	1 BB 15F306	MGCh 15B126	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1976-A31	2442922.50	1976 May 24	UR-100N	-	63022-82-440T	15A30 UBP-8 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	0?	-	(Kura)
1976-S37	2442929.70	1976 May 31 0455	UR-100N	-	51156-79-004T	15A30 LKI-B3	1 BB 15F306	MGCh 15B126	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1976-S38	2442945.65	1976 Jun 16 0330	UR-100N	-	51122-79-007T	15A30 UBP-9 ZP	1 BB 15F306	MGCh 15B126	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1976-S39	2442995.58	1976 Aug 5 0150	UR-100N	-	63056-79-004A	15A30 LKI-B4	1 BB 15F306	MGCh 15B126P	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1976-A51	2443011.66	1976 Aug 21 0355	UR-100N	-	49242-83-440T	15A30 UBP-10 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	0?	-	(Kura)
1976-S40	2443048.60	1976 Sep 27 0230	UR-100N	-	49242-83-441T	15A30 UBP-11 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1976-S41	2443073.59	1976 Oct 22 0210	UR-100N	-	51122-79-006T	15A30 LKI-B5	1 BB 15F306	RGCh 15B126	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1976-S42	2443125.54	1976 Dec 13 0100	UR-100N	-	51122-81-436T	15A30 UBP-12 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1976-A76	2443126.50	1976 Dec 14	UR-100N	-	51122-79-008T	15A30 UBP-13 ZP	1 BB 15F306	RGCh 15B126	-	NIIP-5	LC175/59	-	-	0?	-	(Kura)
1976-S43	2443128.50	1976 Dec 16 0000	UR-100N	-	51142-79-010T	15A30 LKI-B6	1 BB 15F306	RGCh 15B126	-	NIIP-5	LC175/1/58	-	-	1000?	-	Pacific
1976-A81	2443140.54	1976 Dec 28 0100	UR-100N	-	51142-79-011T	15A30 LKI-B7	1 BB 15F306	RGCh 15B126	-	NIIP-5	LC175/1/58	-	-	0?	-	(Kura)
1977-S30	2443186.58	1977 Feb 12 0200	UR-100N	-	49238-79-012T	15A30 LKI-B8	1 BB 15F306	RGCh 15B126	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1977-S31	2443191.60	1977 Feb 17 0230	UR-100N	-	49238-21-133T	15A30 UBP-14 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1977-S32	2443252.10	1977 Apr 18 1430	UR-100N	-	49238-21-134T	15A30 UBP-15 K	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1977-S33	2443289.08	1977 May 25 1400	UR-100N	-	51138-22-134T	15A30 UBP-16 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1977-S34	2443378.65	1977 Aug 23 0330	UR-100N	-	63078-23-124T	15A30 UBP-17 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1977-S267	2443442.58	1977 Oct 26 0155	UR-100NU 15A35	-	49278-82-001	15A35 LKI-1	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1977-S292	2443497.54	1977 Dec 20 0100	UR-100NU 15A35	-	49278-82-002	15A35 LKI-2	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1978-S25	2443527.81	1978 Jan 19 0730	UR-100N	-	51165-52-252T	15A30 UBP-18 K	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1978-S28	2443566.60	1978 Feb 27 0220	UR-100NU 15A35	-	49278-82-003T	15A35 LKI-3	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S29	2443590.61	1978 Mar 23 0235	UR-100NU 15A35	-	49265-82-004T	15A35 LKI-4	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1978-S30	2443625.08	1978 Apr 26 1400	UR-100NU 15A35	-	49265-82-005T	15A35 LKI-5	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S26	2443671.97	1978 Jun 12 1120	UR-100N	-	51165-52-253T	15A30 UBP-19 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1978-S31	2443676.04	1978 Jun 16 1300	UR-100NU 15A35	-	49265-82-006T	15A35 LKI-6	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1978-S32	2443695.16	1978 Jul 5 1550	UR-100NU 15A35	-	49265-82-007T	15A35 LKI-7	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S27	2443710.55	1978 Jul 21 0115	UR-100N	-	63065-53-252T	15A30 UBP-20 ZP	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1978-S33	2443730.65	1978 Aug 10 0340	UR-100NU 15A35	-	49265-82-008T	15A35 LKI-8	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1978-S34	2443751.65	1978 Aug 31 0340	UR-100NU 15A35	-	49265-82-009T	15A35 LKI-9	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S35	2443784.50	1978 Oct 3	UR-100NU 15A35	-	65085-82-010T	15A35 LKI-10	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S36	2443790.50	1978 Oct 9	UR-100NU 15A35	-	49285-82-011T	15A35 LKI-11	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1978-A73	2443799.50	1978 Oct 18	UR-100N	-	-	15A30 60 RD UBP-2	-	-	-	TATS	LC733/6	-	-	0?	-	(Kura)
1978-S37	2443836.50	1978 Nov 24	UR-100NU 15A35	-	49285-82-013T	15A35 LKI-12	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1978-S38	2443840.50	1978 Nov 28	UR-100NU 15A35	-	49285-51-240T	15A35 LKI-13	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1978-S39	2443850.50	1978 Dec 8	UR-100NU 15A35	-	49285-82-012T	15A35 LKI-14	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1978-S40	2443863.50	1978 Dec 21	UR-100NU 15A35	-	49285-82-014T	15A35 LKI-15	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1979-S286	2443873.50	1979	UR-100N	-	-	15A30 60 RD UBP-2	-	-	-	TATS	LC733/1	-	-	1?	-	(Kura)
1979-S287	2443873.50	1979	UR-100N	-	-	15A30 60 RD UBP-3	-	-	-	TATS	LC733/1	-	-	1000?	-	Kura
1979-S27	2443929.50	1979 Feb 25?	UR-100NU 15A35	-	51117-92-573T/302P	15A35 LKI-16	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1979-S28	2444017.50	1979 May 24	UR-100NU 15A35	-	49217-82-016T	15A35 LKI-17	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1979-S29	2444022.50	1979 May 29	UR-100NU 15A35	-	49217-82-017T	15A35 LKI-18	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1979-S30	2444052.50	1979 Jun 28	UR-100NU 15A35	-	49217-82-018T	15A35 LKI-19	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1979-S31	2444063.50	1979 Jul 9	UR-100NU 15A35	-	63097-93-373T	15A35 UBP-1 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1979-S32	2444128.50	1979 Sep 12	UR-100NU 15A35	-	51117-92-574T	15A35 UBP-2 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1979-S33	2444191.50	1979 Nov 14	UR-100NU 15A35	-	49297-94-558T	15A35 UBP-3 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1980-S23	2444348.50	1980 Apr 19	UR-100NU 15A35	-	51163-92-854T	15A35 UBP-4 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1980-S273	2444395.50	1980 Jun 5	UR-100N	-	49242-83-427	15A30 60 RD UBP-5	6 BB 15F305/RA74	RGCh 15B103	-	TATS	LC733/1	-	-	10?	-	Kura
1980-S274	2444421.50	1980 Jul 1	UR-100N	-	-	15A30 60 RD UBP-6	6 BB 15F305/RA74	RGCh 15B103	-	TATS	LC733/1	-	-	10?	-	Kura
1980-S24	2444477.50	1980 Aug 26	UR-100NU 15A35	-	63043-93-85	15A35 UBP-5 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1980-S25	2444599.50	1980 Dec 26	UR-100NU 15A35	-	51163-92-853	15A35 UBP-6 ZP	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1981-S227	2444697.50	1981 Apr 3	UR-100N	-	63042-82-444	15A30 60 RD UBP-7	-	-	-	TATS	LC733/5	-	-	1000?	-	Kura

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1981-S228	2444706.50	1981 Apr 12	UR-100N	-	49242-83-424	15A30 60 RD UBP-8	-	-	-	TATS	LC733/5	-	-	1000?	-	Kura
1981-S43	2444715.50	1981 Apr 21	UR-100NU 15A35	-	49219-21-133T(1E)	15A35 UBP-7 PED	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1981-S38	2444743.48	1981 May 18 2330	UR-100N	-	63085-53-241(2E)	15A30 UBP-21/LKI-26	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC174/44	-	-	1000?	-	Kura
1981-S39	2444761.28	1981 Jun 5 1845	UR-100N	-	63085-53-251T(3E)	15A30 UBP-22	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1981-S44	2444778.50	1981 Jun 23	UR-100NU 15A35	-	49243-94-841T(4E)	15A35 UBP-8	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1981-S40	2444787.16	1981 Jul 1 1550	UR-100N	-	63085-53-248(5E)	15A30 UBP-23	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1981-S45	2444804.57	1981 Jul 19 0140	UR-100NU 15A35	-	51139-22-121T(6E)	15A35 UBP-9	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1981-S46	2444813.52	1981 Jul 28 0025	UR-100NU 15A35	-	51139-22-120T(7E)	15A35 UBP-10	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	-	-	-	1000?	-	Kura
1981-S41	2444816.50	1981 Jul 31 0005	UR-100N	-	63085-53-249(8E)	15A30 UBP-24/LKI-29	6 BB 15F305/RA74	RGCh 15B103	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1981-S47	2444837.50	1981 Aug 21	UR-100NU 15A35	-	51139-82-019T(9E)	15A35 UBP-11	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1981-A22	2444855.52	1981 Sep 8 0030	UR-100N	-	49285-79-014T(10E)	15A30 UBP-25	6 BB 15F356/RA74	RGCh 15F355P3	-	NIIP-5	LC175/1/58	-	-	15?	21	(Pacific)
1981-S42	2444857.46	1981 Sep 9 2300	UR-100N	-	49285-79-013T(11E)	15A30 UBP-26	6 BB 15F356/RA74	RGCh 15F355P3	-	NIIP-5	LC174/44	-	-	1000?	-	Pacific
1981-S48	2444859.54	1981 Sep 12 0100	UR-100NU 15A35	-	51139-82-020(12E)	15A35 UBP-12	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1982-S32	2444976.99	1982 Jan 7 1147	UR-100NU 15A35	-	51139-22-122T(1P)	15A35 UBP-13	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1982-S262	2444977.50	1982 Jan 8	UR-100N	-	63065-53-233	15A30 60 RD UBP-9	-	-	-	TATS	-	-	-	1000?	-	Kura
1982-S33	2445086.14	1982 Apr 26 1520?	UR-100NU 15A35	-	51124-62-662T(2P)	15A35 UBP-14	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1982-S257	2445263.65	1982 Oct 21 0335	UR-100NU 15A35	-	51184-62-664T(3P)	15A35 UBP-15	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1982-S258	2445311.53	1982 Dec 8 0045	UR-100NU 15A35	-	49217-91-572(4P)	15A35 UBP-16	6 BB 15F356/RA74	RGCh 15F355P5	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1982-A38	2445325.54	1982 Dec 22 0055	UR-100NU 15A35S	-	63024-82-025T(1L)	15A35S LKI-1	8 BB 15F358	RGCh 15F357P1	-	NIIP-5	LC131/29	-	-	0?	-	(Kura)
1983-S266	2445362.50	1983 Jan 28	UR-100N	-	49242-83-426	15A30 60 RD UBP-10	GCh	-	-	TATS	-	-	-	1000?	-	Kura
1983-S31	2445367.50	1983 Feb 2	UR-100NU 15A35	-	49282-71-393T(5P)	15A35 UBP-17	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1983-S32	2445397.50	1983 Mar 4	UR-100NU 15A35S	-	63084-82-027(2L)	15A35S LKI-2	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1983-S33	2445417.04	1983 Mar 23 1300	UR-100NU 15A35	-	51165-52-247(6P)	15A35 UBP-18	-	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1983-S34	2445466.50	1983 May 12	UR-100NU 15A35S	-	51139-82-022T(3L)	15A35S LKI-3	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC132/30	-	-	1000?	-	Kzyl-Tu
1983-S35	2445467.50	1983 May 13	UR-100NU 15A35S	-	63024-82-023T(4L)	15A35S LKI-4	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC132/30	-	-	1000?	-	Kzyl-Tu
1983-S36	2445481.50	1983 May 27	UR-100NU 15A35S	-	63024-82-024T(5L)	15A35S LKI-5	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC132/30	-	-	1000?	-	Kzyl-Tu
1983-S37	2445528.50	1983 Jul 13	UR-100NU 15A35	-	63085-53-250	15A35 UBP-19	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1983-S38	2445572.50	1983 Aug 26	UR-100NU 15A35S	-	63048-x2-026T(6L)	15A35S LKI-6	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1983-A29	2445579.50	1983 Sep 2	UR-100NU 15A35	-	51132-723?	15A35 UBP-20	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	40?	-	(Kura)
1983-S39	2445674.50	1983 Dec 6	UR-100NU 15A35	-	51132-723?	15A35 UBP-21	6 BB 15F356/RA74	RGCh 15F355	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1983-S40	2445684.50	1983 Dec 16	UR-100NU 15A35S	-	(7L)	15A35S LKI-7	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1984-S36	2445716.50	1984 Jan 17	UR-100NU 15A35S	-	63032-82-029T(8L)	15A35S LKI-8	6 BB 15F358	RGCh 15F357	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1984-S37	2445726.50	1984 Jan 27	UR-100NU 15A35	-	51126-31-285T	15A35 UBP-22 K	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1984-S38	2445827.50	1984 May 7	UR-100NU 15A35	-	63085-53-240	15A35 UBP-23 K	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1984-S238	2445891.50	1984 Jul 10	UR-100NU 15A35	-	51163-92-844	15A35 60 RD UBP-2	-	-	-	TATS	-	-	-	0?	-	(Kura)
1984-S34	2446007.20	1984 Nov 2 1655	UR-100N	-	49256-42-374	15A30 UBP-27 K	6 BB 15F356/RA74	RGCh 15F355P3	-	NIIP-5	LC175/1/58	-	-	1000?	-	Kura
1984-A37	2446040.50	1984 Dec 6	UR-100NU 15A35	-	49256-42-361	15A35 UBP-24 K	-	-	-	NIIP-5	LC132/30	-	-	0?	-	(Kura)
1985-S19	2446117.50	1985 Feb 21	UR-100NU 15A35	-	51184-62-651	15A35 UBP-25	-	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1985-S20	2446138.50	1985 Mar 14	UR-100NU 15A35	-	49282-71-363	15A35 UBP-26	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1985-S21	2446139.50	1985 Mar 15	UR-100NU 15A35	-	49263-91-843	15A35 UBP-27	-	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1985-S22	2446207.50	1985 May 22	UR-100NU 15A35	-	63071-32-28	15A35 UBP-28	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1985-S23	2446398.50	1985 Nov 29	UR-100NU 15A35	-	63046-41-361	15A35 UBP-29	-	-	-	NIIP-5	-	-	-	1000?	-	Kura
1985-S24	2446402.50	1985 Dec 3	UR-100NU 15A35	-	-	15A35 UBP-30 K	-	-	-	NIIP-5	LC131/29	-	-	1000?	-	Kura
1986-S13	2446533.50	1986 Apr 13	UR-100NU 15A35	-	-	15A35 UBP-31	-	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1986-S14	2446572.50	1986 May 22	UR-100NU 15A35S	-	-	15A35S UBP-1 ZP	6 BB 15F358	GCh 15F357	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1986-S15	2446647.50	1986 Aug 5	UR-100NU 15A35	-	-	15A35 UBP-32	6 BB 15F356/RA74	GCh 15F355P7	-	NIIP-5	LC175/59	-	-	1000?	-	Kura?
1986-S16	2446690.50	1986 Sep 17	UR-100NU 15A35	-	-	15A35 UBP-33	6 BB 15F356/RA74	GCh 15F355P7	-	NIIP-5	-	-	-	1000?	-	Kura
1986-S165	2446773.50	1986 Dec 9	UR-100NU 15A35	-	-	15A35 UBP-34	6 BB 15F356/RA74	GCh 15F355P7	-	NIIP-5	-	-	-	1000?	-	Kura
1987-S50	2446838.50	1987 Feb 12	UR-100NU 15A35	-	-	15A35 60 RD UBP-3	Trajectory Test	-	-	TATS	-	-	-	1000?	-	Kura
1987-A09	2446951.50	1987 Jun 5	UR-100NU 15A35	-	49217-91-568	15A35 60 RD UBP-4	RGCh	-	-	TATS	-	-	-	0?	-	(Kura)
1987-S231	2446977.10	1987 Jun 30 1430	UR-100NU 15A35	?	-	Unk Missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1987-S232	2447054.50	1987 Sep 16	UR-100NU 15A35	?	-	Unk Missile	-	-	-	NIIP-5	-	-	-	1000?	-	-
1987-S40	2447054.86	1987 Sep 16 0845	UR-100NU 15A35	-	49217-91-564	15A35 UBP-35 K-1	RGCh	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1987-S41	2447055.84	1987 Sep 17 0805	UR-100NU 15A35	-	49217-91-563	15A35 UBP-36 K-2	RGCh	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1987-S205	2447132.76	1987 Dec 3 0610	UR-100NU 15A35	-	49217-91-562	15A35 UBP-37 K-3	RGCh	-	-	NIIP-5	LC175/59	-	-	1000?	-	Kura
1988-S42	2447396.50	1988 Aug 23	UR-100NU 15A35	-	49242-83-422	15A35 UBP-38 K-4	-	-	-	NIIP-5	LC132/30	-	-	1000?	-	Kura
1990-S51	2447950.76	1990 Feb 28 0609	UR-100NU 15A35P	-	51145-93-001P	15A35P LKI-1	15Yu70-010/102E	Yu-70 No. 1	-	GIK-5	LC175/59	-	-	1000?	-	Yenisey-1
1990-S74	2447979.78	1990 Mar 29 0645	UR-100NU 15A35P	-	51145-93-002P	15A35P LKI-2	15Yu70/102E	Yu-70 No. 2	-	GIK-5	LC175/59	-	-	1000?	-	Yenisey-1
1990-A17	2448159.90	1990 Sep 25 0930	UR-100NU 15A35	-	-	15A35 UBP 39a	RGCh	Silo explosion	-	GIK-5	LC132/30	-	-	0	-	(Kura)
1990-S155	2448215.67	1990 Nov 20 0402	Rokot	K	No. 1L/511-1992-002	Briz test	GVM Naryad-V No. 1	-	-	GIK-5	LC131/29	-	-	900	-	-
1990-S172	2448246.84	1990 Dec 21 0805	UR-100NU 15A35	-	49256-42-368	15A35 UBP-39	RGCh	-	-	GIK-5	LC132/30	-	-	1000?	-	Kura
1991-S136	2448484.00	1991 Aug 15 1205	UR-100NU 15A35	-	63022-82-421	15A35 UBP-40	RGCh	-	-	GIK-5	LC131/29	-	-	1000?	-	Kura
1991-S174	2448586.56	1991 Nov 26 0130	UR-100NU 15A35P	-	51145-93-003P	15A35P LKI-3	15Yu70 LKI-3	Yu-70 No. 3	-	GIK-5	LC175/59	-	-	1000?	-	Kura
1991-S181	2448611.35	1991 Dec 20 2030	Rokot	K	No. 3L/511-1992-003	Briz test 'Grand Prix'	GVM Naryad-V No. 3	-	-	GIK-5	LC175/58	-	-	1000?	-	Kura
1992-S66	2448832.24	1992 Jul 28 1740	UR-100NU 15A35P	-	51165-93-004P	15A35P LKI-4	15Yu70	Yu-70 No. 4	-	GIK-5	LC132/30	-	-	1000?	-	Kura
1992-A18	2448957.89	1992 Dec 1 0925	UR-100NU 15A35	-	63022-82-422	15A35 UBP-41	6 BB 15F356/RA74	15F355P	-	GIK-5	LC175/59	-	-	0?	-	(Kura)
1993-S09	2449224.50	1993 Aug 25	UR-100NU 15A35	-	49242-83-423	15A35 UBP-42	6 BB 15F356/RA74	15F355P7	-	GIK-5	-	-	-	1000?	-	Kura
1994-S03	2449680.50	1994 Nov 24	UR-100NU 15A35	-	51122-81-434	15A35 UBP-43	6 BB 15F356/RA74	15F355P7	-	GIK-5	-	-	-	1000?	-	Kura
1994-085	2449712.63	1994 Dec 26 0301:16	Rokot	K	No. 4L/511-1992-004	Radio-ROSTO	Radio-ROSTO	-	-	GIK-5	LC175/58	-	-	2259	-	-
1995-S43	2449877.03	1995 Jun 8 1245	UR-100NU 15A35	-	49242-83-430	15A35 UBP-44	6 BB 15F356/RA74	15F355P7	-	GIK-5	-	-	-	1000?	-	Kura
1996-S28	2450240.50	1996 Jun 6	UR-100NU 15A35	-	51122-81-428	15A35 UBP-45	6 BB 15F356/RA74	15F355P7	-	GIK-5	-	-	-	1000?	-	Kura
1997-S45	2450609.81	1997 Jun 10 0720	UR-100NU 15A35	-	49238-21-118	15A35 UBP-46	6 BB 15F356/RA74	15F355P7	-	GIK-5	LC132/30	-	-	1000?	-	Kura
1998-S59	2451094.00	1998 Oct 7 1200	UR-100NU 15A35	-	-	15A35 UBP-47	6 BB 15F356/RA74	15F355P7	-	GIK-5	LC175/59	-	-	1000?	-	Kura
1999-S69	2451471.88	1999 Oct 20 0900	UR-100NU 15A35	-	51178-22-124	15A35 UBP-48	6 BB 15F356/RA74	15F355P7 476-67-334	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2000-026	2451680.85	2000 May 16 0827:41	Rokot	-	630-6992-011P/72501	Simsat-1/2	EPN 813IP/003 (Iridium)	-	-	GIK-1	LC133/3	-	-	559?	-	-
2000-S62	2451849.92	2000 Nov 1 1000	UR-100NU 15A35	-	51178-22-133 (87)	15A35 UBP-49	GCh 15F355P7	15F355P7 524-59-212	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2001-S32	2452087.69	2001 Jun 27 0435	UR-100NU 15A35P	-	63078-23-114	15A35P LKI-5	15Yu70/102E	Yu-70 No. 5 (30501)	-	GIK-5	LC132/30	-	-	1000?	-	Kura
2001-S47	2452209.02	2001 Oct 26 1233	UR-100NU 15A35	-	511-7822-119	15A35 UBP-50	GCh 15F355P7	15F355P7 641-58-413	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2002-012	2452350.89	2002 Mar 17 0921:27	Rokot	-	492-6992-013P/72505	GRACE 1/2	GRACE 1	-	-	GIK-1	LC133/3	-	-	509	-	-
2002-031	2452445.90	2002 Jun 20 0933:46	Rokot	-	492-5882-034/72502	Iridium 97/98	Iridium SV097	-	-	GIK-1	LC133/3	-	-	792	-	-
2002-S76	2452618.72	2002 Dec 10 0515:57	UR-100NU 15A35	-	511-7822-118	15A35 UBP-51	6 BB 15F356/RA74	15F355P7 212	-	GIK-5	LC132/30	-	-	1000?	-	Kura
2003-031	2452821.09	2003 Jun 30 1415:26	Rokot	-	511-1992-008P/72503	MOM	Mimosa	-	-	GIK-1	LC133/3	-	-	846	-	-
2003-050	2452943.07	2003 Oct 30 1343:42	Rokot	-	492-1921-121/72506	SERVIS-1	SERVIS-1	-	-	GIK-1	LC133/3	-	-	1016	-	-
2003-055	2452978.75	2003 Dec 5 0600:00	Strela	-	511-7822-123	Gruzomaket	Kondor-E GVM 14S135	-	-	GIK-5	LC175/59	-	-	462	-	-
2004-S07	2453053.88	2004 Feb 18 0900	UR-100NU 15A35P	-	511-7822-121	15A35P LKI-6	15Yu70/102E	Yu-70 No. 6 (30303)	-	GIK-5	LC132/30	-	-	1000?	-	Kura
2004-S33	2453228.93	2004 Aug 11 1025	UR-100NU 15A35	-	492-3821-128	15A35 UBP-52	6 BB 15F356/RA74	15F355P7 524-78-412	-	GIK-5	LC132/30	-	-	1000?	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2005-032	2453609.27	2005 Aug 26 1834:28	Rokot	-	630-7823-115/72507	Monitor-E	98M	-	-	GIK-1	LC133/3	-	-	600	-	-
2005-F03	2453652.13	2005 Oct 8 1502:00	Rokot	-	492-5882-030/72508	Cryosat	Cryosat	-	-	GIK-1	LC133/3	-	-	700?	-	-
2005-S45	2453663.81	2005 Oct 20 0730:00	UR-100NU 15A35	-	492-3821-111	15A35 UBP-53	6 BB 15F356/RA74	15F355P7 476-78-411	-	GIK-5	LC175	-	-	1000?	-	Kura
2006-031	2453944.80	2006 Jul 28 0705:43	Rokot	-	492-5882-032/72504	Kompsat-2	KOMPSAT-2	-	-	GIK-1	LC133/3	-	-	704	-	-
2006-S61	2454048.98	2006 Nov 9 1135	UR-100NU 15A35	-	492-3821-114	15A35 UBP-54	6 BB 15F356/RA74	15F355P7 524-67-335	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2007-S54	2454402.88	2007 Oct 29 0900:01	UR-100NU 15A35	-	492-3821-113	15A35 UBP-55	6 BB 15F356/RA74	15F355P7 641-78-416	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2008-025	2454610.14	2008 May 23 1520:09	Rokot	-	511-3922-114/72509	Kosmos-2437-2439/Yub	Yubileyniy	-	-	GIK-1	LC133/3	-	-	1512	-	-
2008-S51	2454761.88	2008 Oct 22 0909:58	UR-100NU 15A35	-	511-6552-236	15A35 UBP-56	6 BB 15F356/RA74	15F355P7	-	GIK-5	LC175/59	-	-	1000?	-	Kura
2009-013	2454908.10	2009 Mar 17 1421:14	Rokot	-	511-6992-012P/72511	GOCE	GOCE	-	-	GIK-1	LC133/3	-	-	290	-	-
2009-036	2455018.56	2009 Jul 6 0126:34	Rokot	-	492-1791-573/72510	Kosmos-2451-2453	Strela-3	-	-	GIK-1	LC133/3	-	-	1515	-	-
2009-059	2455137.58	2009 Nov 2 0150:51	Rokot	-	492-5882-033/72513	SMOS/Proba-2	SMOS	-	-	GIK-1	LC133/3	-	-	764	-	-
2010-023	2455349.58	2010 Jun 2 0159:12	Rokot	-	511-1992-007P/72516	SERVIS-2	SERVIS-2	-	-	GIK-1	LC133/3	-	-	1214	-	-
2010-043	2455447.65	2010 Sep 8 0330:18	Rokot	-	630-9793-567/72514	Gonets-M/Kosmos	Gonets-M No. 12	-	-	GIK-1	LC133/3	-	-	1518	-	-
2011-005	2455594.08	2011 Feb 1 1400:14	Rokot	-	630-9793-568/72517	Geo-IK-2	Musson-2 No. 11	-	-	GIK-1	LC133/3	-	-	1066	-	-
2011-S68	2455923.00	2011 Dec 27 1200:00	UR-100NU 15A35P	-	511-6552-249	15A35P LKI-7	15Yu70/102E Proekt 4202	Yu-70 No. 7 (30801)	-	GIK-5	LC132/30	-	-	1000?	-	Kura
2012-041	2456136.57	2012 Jul 28 0135:34	Rokot	-	492-6391-835/72515	Gonets-M Blok 11/Kosmos	Gonets-M No. 13,15	-	-	GIK-1	LC133/3	-	-	1515	-	-
2013-001	2456308.18	2013 Jan 15 1624:59	Rokot	-	492-6391-831/72518	Kosmos-2482/3/4	Strela-3M	-	-	GIK-1	LC133/3	-	-	1517	-	-
2013-032	2456471.20	2013 Jun 27 1653:00	Strela	-	492-6391-832	Kosmos-2487	Kondor No. 202	-	-	GIK-5	LC175/59	-	-	544	-	-
2013-048	2456547.47	2013 Sep 11 2323:04	Rokot	-	492-6391-838/72519	Gonets-M Blok 12	Gonets-M No. 14/16/17	-	-	GIK-1	LC133/3	-	-	1515	-	-
2013-S102	2456562.63	2013 Sep 27 0301:49	UR-100NU 15A35P	-	492-6391-837	15A35-71 LKI-1	Yu-71 Hypersonic RV	Yu-71 No. 1	-	YAS	Sh370/12	-	-	1000?	-	Kura?
2013-067	2456619.00	2013 Nov 22 1202:29	Rokot	-	492-5882-031/72524	SWARM	SWARM 1,2,3	-	-	GIK-1	LC133/3	-	-	519	-	-
2013-076	2456651.52	2013 Dec 25 0031:55	Rokot	-	492-3931-130/72520	Kosmos-2488/89/90/91	Rodnik	-	-	GIK-1	LC133/3	-	-	1513	-	-
2014-028	2456800.73	2014 May 23 0527:54	Rokot	-	630-4393-851/72521	Kosmos-2496/97/98/99	Rodnik	-	-	GIK-1	LC133/3	-	-	1609	-	-
2014-036	2456842.03	2014 Jul 3 1243:52	Rokot	-	492-9794-555/72522	Gonets-M Blok 13	Gonets-M No. 18/19/20	-	-	GIK-1	LC133/3	-	-	1518	-	-
2014-084	2457010.70	2014 Dec 19 0443:32	Strela	-	630-9793-560	Kondor-E No. 2	Kondor-E No. 2	-	-	GIK-5	LC175/59	-	-	502	-	-
2015-A02	2457079.83	2015 Feb 26 0801:49	UR-100NU 15A35P	-	511-3922-119	15A35-71 LKI-2	Yu-71 / Proekt 4202	Yu-71 No. 2	-	YAS	Sh370/12	-	-	40?	-	(Kura)
2015-020	2457113.07	2015 Mar 31 1347:56	Rokot	-	492-9794-554/72526	Gonets-M Blok 14/K-2504	Gonets-M No. 21/22/23	-	-	GIK-1	LC133/3	-	-	1515	-	-
2015-050	2457289.42	2015 Sep 23 2159:38	Rokot	-	511-2361-274/72512	Kosmos-2507/08/09	Rodnik	-	-	GIK-1	LC133/3	-	-	1520	-	-
2016-011	2457435.25	2016 Feb 16 1757:45	Rokot	-	492-9794-553/72525	Sentinel-3A	Sentinel-3A	-	-	GIK-1	LC133/3	-	-	806	-	-
2016-S24	2457497.78	2016 Apr 19 0641:55	UR-100NU 15A35P	-	492-9152-331	15A35-71 LKI-3	Yu-71 / Proekt 4202	Yu-71 No. 3	-	YAS	Sh370/12	-	-	1000?	-	Kura
2016-034	2457544.08	2016 Jun 4 1400:14	Rokot	-	492-6391-834/72527	Geo-IK-2 No. 12	Musson-2 No. 12	-	-	GIK-1	LC133/3	-	-	963	-	-
2016-S64	2457686.88	2016 Oct 25 0900:04	UR-100NU 15A35P	-	-	15A35-71 LKI-4	Avangard	Yu-71 No. 4	-	YAS	Sh370/12	-	-	1000?	-	Kura
2017-064	2458039.89	2017 Oct 13 0927:44	Rokot	-	511-1992-009P/72528	Sentinel-5P	Sentinel-5P	-	-	GIK-1	LC133/3	-	-	830	-	-
2018-039	2458234.25	2018 Apr 25 1757:51	Rokot	-	492-1992-010P/72523	Sentinel-3B	Sentinel-3B	-	-	GIK-1	LC133/3	-	-	822	-	-
2018-097	2458452.60	2018 Nov 30 0227:34	Rokot	-	492-3921-126/72529	Kosmos-2530/31/32	Rodnik	-	-	GIK-1	LC133/3	-	-	1513	-	-
2018-S82	2458478.92	2018 Dec 26 0959	UR-100NU 15A35P	-	-	15A35-71 LKI-5	Avangard	Yu-71 No. 5	-	YAS	Sh370/12	-	-	1000?	-	Kura
2019-057	2458726.08	2019 Aug 30 1400	Rokot	-	492-3921-129/72530	Geo-IK-2 No. 13	Musson-2 No. 13	-	-	GIK-1	LC133/3	-	-	958	-	-
2019-096	2458844.47	2019 Dec 26 2311:58	Rokot	-	-	Gonets-M Blok 15	Gonets-M No. 24/25/26	-	-	GIK-1	LC133/3	-	-	4099	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-A100	2441356.67	1972 Feb 9 0400	UR-100N	-	51144-70-801	0.000	RVSN	MS	-	-	Test	RPCA	RPCB	-
1972-A02	2441491.50	1972 Jun 23	UR-100N	-	63013-70-802	0.000	RVSN	MF	U	-	Test	RPCA	-	-
1973-S146	2441781.72	1973 Apr 9 0515	UR-100N	-	51173-72-001	0.000	RVSN	MF	U	-	Test	BML	RPCA	-
1973-S192	2441839.79	1973 Jun 6 0653	UR-100N	-	51173-72-002	0.000	RVSN	MS	-	-	Test	RML	RPCA	-
1973-S218	2441894.73	1973 Jul 31 0530	UR-100N	-	51139-72-003	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S261	2441925.72	1973 Aug 31 0510	UR-100N	-	51159-72-005	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S290	2441942.73	1973 Sep 17 0525	UR-100N	-	51159-72-004	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S291	2441949.70	1973 Sep 24 0455	UR-100N	-	51159-72-006	0.000	RVSN	MS	-	-	Test	BML	RPCA	-
1973-S335	2441973.50	1973 Oct 18	UR-100N	-	51159-72-007	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1973-S376	2442008.50	1973 Nov 22	UR-100N	-	51159-72-008	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1973-S413	2442037.50	1973 Dec 21	UR-100N	-	51159-72-009	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1973-S450	2442043.50	1973 Dec 27	UR-100N	-	51159-72-011	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S76	2442073.50	1974 Jan 26	UR-100N	-	- 2-013	0.000	RVSN	MS	-	-	Test	RFX	AWST740318	-
1974-S79	2442074.50	1974 Jan 27	UR-100N	-	- 2-012	0.000	RVSN	MS	-	-	Test	RFX	-	-
1974-S105	2442106.50	1974 Feb 28	UR-100N	-	- 2-010	0.000	RVSN	MS	-	-	Test	RPCA	AWST740225-20	or Feb 19
1974-S112	2442111.50	1974 Mar 5	UR-100N	-	- 2-014	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S41	2442135.50	1974 Mar 29	UR-100N	-	- 2-015	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S42	2442194.50	1974 May 27	UR-100N	-	- 2-016	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S43	2442198.50	1974 May 31	UR-100N	-	- 2-017	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S245	2442234.50	1974 Jul 6	UR-100N	-	- 2-019	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S44	2442268.50	1974 Aug 9	UR-100N	-	- 2-020	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S45	2442320.50	1974 Sep 30	UR-100N	-	- 2-024	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S46	2442353.50	1974 Nov 2	UR-100N	-	- 2-025	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S47	2442389.50	1974 Dec 8	UR-100N	-	51121-72-026	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S48	2442399.58	1974 Dec 18 0150	UR-100N	-	51121-61-259T	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S49	2442403.50	1974 Dec 22	UR-100N	-	- 2-021	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1974-S50	2442406.50	1974 Dec 25	UR-100N	-	- 2-022	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1975-S27	2442507.50	1975 Apr 5	UR-100N	-	63046-41-381P	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-A39	2442579.50	1975 Jun 16	UR-100N	-	63046-41-382T	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1975-A42	2442597.50	1975 Jul 4	UR-100N	-	51121-72-027	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1975-S28	2442653.50	1975 Aug 29	UR-100N	-	51156-79-001T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S29	2442675.50	1975 Sep 20	UR-100N	-	49256-42-378T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1975-S30	2442698.50	1975 Oct 13	UR-100N	-	63056-41-383T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S34	2442826.50	1976 Feb 18	UR-100N	-	51122-81-435T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S35	2442849.50	1976 Mar 12	UR-100N	-	51156-79-003T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1976-S36	2442915.59	1976 May 17 0215	UR-100N	-	51156-79-005T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-A31	2442922.50	1976 May 24	UR-100N	-	63022-82-440T	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1976-S37	2442929.70	1976 May 31 0455	UR-100N	-	51156-79-004T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-S38	2442945.65	1976 Jun 16 0330	UR-100N	-	51122-79-007T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-S39	2442995.58	1976 Aug 5 0150	UR-100N	-	63056-79-004A	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-A51	2443011.66	1976 Aug 21 0355	UR-100N	-	49242-83-440T	0.000	RVSN	MF	U	-	OT	BML	RPCA	-
1976-S40	2443048.60	1976 Sep 27 0230	UR-100N	-	49242-83-441T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-S41	2443073.59	1976 Oct 22 0210	UR-100N	-	51122-79-006T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-S42	2443125.54	1976 Dec 13 0100	UR-100N	-	51122-81-436T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-A76	2443126.50	1976 Dec 14	UR-100N	-	51122-79-008T	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1976-S43	2443128.50	1976 Dec 16 0000	UR-100N	-	51142-79-010T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1976-A81	2443140.54	1976 Dec 28 0100	UR-100N	-	51142-79-011T	0.000	RVSN	MF	U	-	OT	BML	RPCA	-
1977-S30	2443186.58	1977 Feb 12 0200	UR-100N	-	49238-79-012T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1977-S31	2443191.60	1977 Feb 17 0230	UR-100N	-	49238-21-133T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1977-S32	2443252.10	1977 Apr 18 1430	UR-100N	-	49238-21-134T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1977-S33	2443289.08	1977 May 25 1400	UR-100N	-	51138-22-134T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1977-S34	2443378.65	1977 Aug 23 0330	UR-100N	-	63078-23-124T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1977-S267	2443442.58	1977 Oct 26 0155	UR-100NU 15A35	-	49278-82-001	0.000	RVSN	MS	-	-	OT	BML	NK9814-26	PP
1977-S292	2443497.54	1977 Dec 20 0100	UR-100NU 15A35	-	49278-82-002	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S25	2443527.81	1978 Jan 19 0730	UR-100N	-	51165-52-252T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1978-S28	2443566.60	1978 Feb 27 0220	UR-100NU 15A35	-	49278-82-003T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S29	2443590.61	1978 Mar 23 0235	UR-100NU 15A35	-	49265-82-004T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S30	2443625.08	1978 Apr 26 1400	UR-100NU 15A35	-	49265-82-005T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S26	2443671.97	1978 Jun 12 1120	UR-100N	-	51165-52-253T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1978-S31	2443676.04	1978 Jun 16 1300	UR-100NU 15A35	-	49265-82-006T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S32	2443695.16	1978 Jul 5 1550	UR-100NU 15A35	-	49265-82-007T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S27	2443710.55	1978 Jul 21 0115	UR-100N	-	63065-53-252T	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1978-S33	2443730.65	1978 Aug 10 0340	UR-100NU 15A35	-	49265-82-008T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S34	2443751.65	1978 Aug 31 0340	UR-100NU 15A35	-	49265-82-009T	0.000	RVSN	MS	-	-	OT	BML	PP	-
1978-S35	2443784.50	1978 Oct 3	UR-100NU 15A35	-	65085-82-010T	0.000	RVSN	MS	-	-	OT	PP	-	-
1978-S36	2443790.50	1978 Oct 9	UR-100NU 15A35	-	49285-82-011T	0.000	RVSN	MS	-	-	OT	PP	-	-
1978-A73	2443799.50	1978 Oct 18	UR-100N	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1978-S37	2443836.50	1978 Nov 24	UR-100NU 15A35	-	49285-82-013T	0.000	RVSN	MS	-	-	OT	PP	-	-
1978-S38	2443840.50	1978 Nov 28	UR-100NU 15A35	-	49285-51-240T	0.000	RVSN	MS	-	-	OT	PP	-	-
1978-S39	2443850.50	1978 Dec 8	UR-100NU 15A35	-	49285-82-012T	0.000	RVSN	MS	-	-	OT	PP	-	-
1978-S40	2443863.50	1978 Dec 21	UR-100NU 15A35	-	49285-82-014T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S286	2443873.50	1979	UR-100N	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1979-S287	2443873.50	1979	UR-100N	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1979-S27	2443929.50	1979 Feb 25?	UR-100NU 15A35	-	51117-92-573T/302P	0.000	RVSN	MS	-	-	OT	PP	-	Mar20/PP
1979-S28	2444017.50	1979 May 24	UR-100NU 15A35	-	49217-82-016T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S29	2444022.50	1979 May 29	UR-100NU 15A35	-	49217-82-017T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S30	2444052.50	1979 Jun 28	UR-100NU 15A35	-	49217-82-018T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S31	2444063.50	1979 Jul 9	UR-100NU 15A35	-	63097-93-373T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S32	2444128.50	1979 Sep 12	UR-100NU 15A35	-	51117-92-574T	0.000	RVSN	MS	-	-	OT	PP	-	-
1979-S33	2444191.50	1979 Nov 14	UR-100NU 15A35	-	49297-94-558T	0.000	RVSN	MS	-	-	OT	PP	-	-
1980-S23	2444348.50	1980 Apr 19	UR-100NU 15A35	-	51163-92-854T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1980-S273	2444395.50	1980 Jun 5	UR-100N	-	49242-83-427	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1980-S274	2444421.50	1980 Jul 1	UR-100N	-	-	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1980-S24	2444477.50	1980 Aug 26	UR-100NU 15A35	-	63043-93-85	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1980-S25	2444599.50	1980 Dec 26	UR-100NU 15A35	-	51163-92-853	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S227	2444697.50	1981 Apr 3	UR-100N	-	63042-82-444	0.000	RVSN	MF	U	-	OT	RPCA	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1981-S228	2444706.50	1981 Apr 12	UR-100N	-	49242-83-424	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1981-S43	2444715.50	1981 Apr 21	UR-100NU 15A35	-	49219-21-133T(1E)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S38	2444743.48	1981 May 18 2330	UR-100N	-	63085-53-241(2E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S39	2444761.28	1981 Jun 5 1845	UR-100N	-	63085-53-251T(3E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S44	2444778.50	1981 Jun 23	UR-100NU 15A35	-	49243-94-841T(4E)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-S40	2444787.16	1981 Jul 1 1550	UR-100N	-	63085-53-248(5E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S45	2444804.57	1981 Jul 19 0140	UR-100NU 15A35	-	51139-22-121T(6E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S46	2444813.52	1981 Jul 28 0025	UR-100NU 15A35	-	51139-22-120T(7E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S41	2444816.50	1981 Jul 31 0005	UR-100N	-	63085-53-249(8E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1981-S47	2444837.50	1981 Aug 21	UR-100NU 15A35	-	51139-82-019T(9E)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1981-A22	2444855.52	1981 Sep 8 0030	UR-100N	-	49285-79-014T(10E)	0.000	RVSN	MF	U	-	OT	BML	RPCA	-
1981-S42	2444857.46	1981 Sep 9 2300	UR-100N	-	49285-79-013T(11E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	500km long
1981-S48	2444859.54	1981 Sep 12 0100	UR-100NU 15A35	-	51139-82-020(12E)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-S32	2444976.99	1982 Jan 7 1147	UR-100NU 15A35	-	51139-22-122T(1P)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-S262	2444977.50	1982 Jan 8	UR-100N	-	63065-53-233	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1982-S33	2445086.14	1982 Apr 26 1520?	UR-100NU 15A35	-	51124-62-662T(2P)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-S257	2445263.65	1982 Oct 21 0335	UR-100NU 15A35	-	51184-62-664T(3P)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-S258	2445311.53	1982 Dec 8 0045	UR-100NU 15A35	-	49217-91-572(4P)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1982-A38	2445325.54	1982 Dec 22 0055	UR-100NU 15A35S	-	63024-82-025T(1L)	0.000	RVSN	MF	U	-	OT	BML	RPCA	-
1983-S266	2445362.50	1983 Jan 28	UR-100N	-	49242-83-426	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S31	2445367.50	1983 Feb 2	UR-100NU 15A35	-	49282-71-393T(5P)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S32	2445397.50	1983 Mar 4	UR-100NU 15A35S	-	63084-82-027(2L)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S33	2445417.04	1983 Mar 23 1300	UR-100NU 15A35	-	51165-52-247(6P)	0.000	RVSN	MS	-	-	OT	BML	RPCA	-
1983-S34	2445466.50	1983 May 12	UR-100NU 15A35S	-	51139-82-022T(3L)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1983-S35	2445467.50	1983 May 13	UR-100NU 15A35S	-	63024-82-023T(4L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-S36	2445481.50	1983 May 27	UR-100NU 15A35S	-	63024-82-024T(5L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-S37	2445528.50	1983 Jul 13	UR-100NU 15A35	-	63085-53-250	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-S38	2445572.50	1983 Aug 26	UR-100NU 15A35S	-	63048-x2-026T(6L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-A29	2445579.50	1983 Sep 2	UR-100NU 15A35	-	51132-723?	0.000	RVSN	MF	U	-	OT	RFX	-	St1Fail108s
1983-S39	2445674.50	1983 Dec 6	UR-100NU 15A35	-	51132-723?	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1983-S40	2445684.50	1983 Dec 16	UR-100NU 15A35S	-	(7L)	0.000	RVSN	MS	-	-	Test	RPCA	-	-
1984-S36	2445716.50	1984 Jan 17	UR-100NU 15A35S	-	63032-82-029T(8L)	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1984-S37	2445726.50	1984 Jan 27	UR-100NU 15A35	-	51126-31-285T	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1984-S38	2445827.50	1984 May 7	UR-100NU 15A35	-	63085-53-240	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1984-S238	2445891.50	1984 Jul 10	UR-100NU 15A35	-	51163-92-844	0.000	RVSN	MF	U	-	OT	RPCA	-	RML says NIIP-5
1984-S34	2446007.20	1984 Nov 2 1655	UR-100N	-	49256-42-374	0.000	RVSN	MS	-	-	OT	BML	-	-
1984-A37	2446040.50	1984 Dec 6	UR-100NU 15A35	-	49256-42-361	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1985-S19	2446117.50	1985 Feb 21	UR-100NU 15A35	-	51184-62-651	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S20	2446138.50	1985 Mar 14	UR-100NU 15A35	-	49282-71-363	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S21	2446139.50	1985 Mar 15	UR-100NU 15A35	-	49263-91-843	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S22	2446207.50	1985 May 22	UR-100NU 15A35	-	63071-32-28	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S23	2446398.50	1985 Nov 29	UR-100NU 15A35	-	63046-41-361	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1985-S24	2446402.50	1985 Dec 3	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	RFX	-	-
1986-S13	2446533.50	1986 Apr 13	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1986-S14	2446572.50	1986 May 22	UR-100NU 15A35S	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1986-S15	2446647.50	1986 Aug 5	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1986-S16	2446690.50	1986 Sep 17	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1986-S165	2446773.50	1986 Dec 9	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1987-S50	2446838.50	1987 Feb 12	UR-100NU 15A35	-	-	0.000	RVSN	MS	-	-	OT	Pervov	RPCA	-
1987-A09	2446951.50	1987 Jun 5	UR-100NU 15A35	-	49217-91-568	0.000	RVSN	MF	U	-	OT	RPCA	-	-
1987-S231	2446977.10	1987 Jun 30 1430	UR-100NU 15A35	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1987-S232	2447054.50	1987 Sep 16	UR-100NU 15A35	?	-	0.000	MVS	MU	-	-	Test	BML	-	-
1987-S40	2447054.86	1987 Sep 16 0845	UR-100NU 15A35	-	49217-91-564	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1987-S41	2447055.84	1987 Sep 17 0805	UR-100NU 15A35	-	49217-91-563	0.000	RVSN	MS	-	-	OT	BML	XPC	-
1987-S205	2447132.76	1987 Dec 3 0610	UR-100NU 15A35	-	49217-91-562	0.000	RVSN	MS	-	-	OT	BML	RPCA	Not in XPC
1988-S42	2447396.50	1988 Aug 23	UR-100NU 15A35	-	49242-83-422	0.000	RVSN	MS	-	-	OT	RPCA	-	-
1990-S51	2447950.76	1990 Feb 28 0609	UR-100NU 15A35P	-	51145-93-001P	0.000	RVSN	MS	-	-	OT	RFX	-	-
1990-S74	2447979.78	1990 Mar 29 0645	UR-100NU 15A35P	-	51145-93-002P	0.000	RVSN	MS	-	-	OT	RFX	-	XPC:0430
1990-A17	2448159.90	1990 Sep 25 0930	UR-100NU 15A35	-	-	0.000	RVSN	MF	U	-	OT	RML	-	-
1990-S155	2448215.67	1990 Nov 20 0402	Rokot	K	No. 1L/511-1992-002	0.000	VKS	TS	-	-	Test/ASAT?	NK1507-69	NK9524-86	-
1990-S172	2448246.84	1990 Dec 21 0805	UR-100NU 15A35	-	49256-42-368	0.000	RVSN	MS	-	-	OT	RFX	-	-
1991-S136	2448484.00	1991 Aug 15 1205	UR-100NU 15A35	-	63022-82-421	0.000	RVSN	MS	-	-	OT	RPC	-	-
1991-S174	2448586.56	1991 Nov 26 0130	UR-100NU 15A35P	-	51145-93-003P	0.000	RVSN	MS	-	-	Test	Wire	-	BML0130
1991-S181	2448611.35	1991 Dec 20 2030	Rokot	K	No. 3L/511-1992-003	0.000	VKS	TS	-	-	Test	NK1507-69	NK9524-86	-
1992-S66	2448832.24	1992 Jul 28 1740	UR-100NU 15A35P	-	51165-93-004P	0.000	RVSNR	MS	-	-	OT	RFX	-	-
1992-A18	2448957.89	1992 Dec 1 0925	UR-100NU 15A35	-	63022-82-422	0.000	RVSNR	MF	U	-	OT	RML	-	-
1993-S09	2449224.50	1993 Aug 25	UR-100NU 15A35	-	49242-83-423	0.000	RVSNR	MS	-	-	OT	RPCA	-	-
1994-S03	2449680.50	1994 Nov 24	UR-100NU 15A35	-	51122-81-434	0.000	RVSNR	MS	-	-	OT	RPCA	-	-
1994-085	2449712.63	1994 Dec 26 0301:16	Rokot	K	No. 4L/511-1992-004	0.070	VKSR	OS	-	G	Sat MEO O	AVMN	NK9524-86	-
1995-S43	2449877.03	1995 Jun 8 1245	UR-100NU 15A35	-	49242-83-430	0.000	RVSNR	MS	-	-	OT	TASS950608	-	-
1996-S28	2450240.50	1996 Jun 6	UR-100NU 15A35	-	51122-81-428	0.000	RVSNR	MS	-	-	OT	www.nti.org	-	-
1997-S45	2450609.81	1997 Jun 10 0720	UR-100NU 15A35	-	49238-21-118	0.000	RVSNR	MS	-	-	OT	BML	Kosmodrom9803	-
1998-S59	2451094.00	1998 Oct 7 1200	UR-100NU 15A35	-	-	0.000	RVSNR	MS	-	-	OT	Kosmodrom9805	NK9904-67	-
1999-S69	2451471.88	1999 Oct 20 0900	UR-100NU 15A35	-	51178-22-124	0.000	RVSNR	MS	-	-	OT	BML	Kosmodrom9911	Or 1000?
2000-026	2451680.85	2000 May 16 0827:41	Rokot	-	630-6992-011P/72501	1.317	EUROK	OS	-	CO	Sat LEO P	Eurockot-WWW	-	-
2000-S62	2451849.92	2000 Nov 1 1000	UR-100NU 15A35	-	51178-22-133 (87)	0.000	RVSNR	MS	-	-	OT	Kosmodrom0012	-	-
2001-S32	2452087.69	2001 Jun 27 0435	UR-100NU 15A35P	-	63078-23-114	0.000	RVSNR	MS	-	-	OT	www.eurockot.com	Kosmodrom0107-3	-
2001-S47	2452209.02	2001 Oct 26 1233	UR-100NU 15A35	-	511-7822-119	0.000	RVSNR	MS	-	-	OT	Kosmodrom0111	-	-
2002-012	2452350.89	2002 Mar 17 0921:27	Rokot	-	492-6992-013P/72505	0.950	EUROK	OS	-	CO/G	Sat LEO P	NK0205-40	-	-
2002-031	2452445.90	2002 Jun 20 0933:46	Rokot	-	492-5882-034/72502	1.310	EUROK	OS	-	CO	Sat LEO L	NK0208-38	-	-
2002-S76	2452618.72	2002 Dec 10 0515:57	UR-100NU 15A35	-	511-7822-118	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2003-031	2452821.09	2003 Jun 30 1415:26	Rokot	-	511-1992-008P/72503	0.134	EUROK	OS	-	CO	Sat SSO L	NK0308-42	-	-
2003-050	2452943.07	2003 Oct 30 1343:42	Rokot	-	492-1921-121/72506	0.980	EUROK	OS	-	CO/OG	Sat SSO L	NK0312-44	-	-
2003-055	2452978.75	2003 Dec 5 0600:00	Strela	-	511-7822-123	0.978	RVSNR	OS	-	-	Sat LEO L	NK0402-13	-	-
2004-S07	2453053.88	2004 Feb 18 0900	UR-100NU 15A35P	-	511-7822-121	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2004-S33	2453228.93	2004 Aug 11 1025	UR-100NU 15A35	-	492-3821-128	0.000	RVSNR	MS	-	-	OT	NK-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2005-032	2453609.27	2005 Aug 26 1834:28	Rokot	-	630-7823-115/72507	0.750	KVR	OS	-	G	Sat SSO P	NK0510-16	-	-
2005-F03	2453652.13	2005 Oct 8 1502:00	Rokot	-	492-5882-030/72508	0.670	EUROK	OF	S2P	CO/G	Sat SSO L	NK0512-34	-	Software error caused overburn,n
2005-S45	2453663.81	2005 Oct 20 0730:00	UR-100NU 15A35	-	492-3821-111	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2006-031	2453944.80	2006 Jul 28 0705:43	Rokot	-	492-5882-032/72504	0.765	EUROK	OS	-	CO/OG	Sat SSO L	NK0609-52	-	-
2006-S61	2454048.98	2006 Nov 9 1135	UR-100NU 15A35	-	492-3821-114	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2007-S54	2454402.88	2007 Oct 29 0900:01	UR-100NU 15A35	-	492-3821-113	0.000	RVSNR	MS	-	-	OT	NK0712-35	-	-
2008-025	2454610.14	2008 May 23 1520:09	Rokot	-	511-3922-114/72509	0.723	KVR	OS	-	G	Sat LEO L	NK0807-33	-	-
2008-S51	2454761.88	2008 Oct 22 0909:58	UR-100NU 15A35	-	511-6552-236	0.000	RVSNR	MS	-	-	OT	Wire	-	-
2009-013	2454908.10	2009 Mar 17 1421:14	Rokot	-	511-6992-012P/72511	1.200	EUROK	OS	-	CO/G	Sat SSO O	NK0905-38	-	-
2009-036	2455018.56	2009 Jul 6 0126:34	Rokot	-	492-1791-573/72510	0.730	KVR	OS	-	G	Sat LEO L	vesti.ru	NK0909-33	-
2009-059	2455137.58	2009 Nov 2 0150:51	Rokot	-	492-5882-033/72513	0.788	EUROK	OS	-	CO/G	Sat SSO L	NK1001-26	-	-
2010-023	2455349.58	2010 Jun 2 0159:12	Rokot	-	511-1992-007P/72516	0.740	EUROK	OS	-	CO/OG	Sat SSO L	NK1008-16	-	-
2010-043	2455447.65	2010 Sep 8 0330:18	Rokot	-	630-9793-567/72514	0.785	KVR	OS	-	G	Sat LEO L	NK1011-25	-	-
2011-005	2455594.08	2011 Feb 1 1400:14	Rokot	-	630-9793-568/72517	0.900	KVR	OF40	S3R	G	Sat SSO O	NK1104-26	-	No restart
2011-S68	2455923.00	2011 Dec 27 1200:00	UR-100NU 15A35P	-	511-6552-249	0.000	RVSNR	MS	-	-	OT	russianforces.org	-	-
2012-041	2456136.57	2012 Jul 28 0135:34	Rokot	-	492-6391-835/72515	0.850	KVR	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2013-001	2456308.18	2013 Jan 15 1624:59	Rokot	-	492-6391-831/72518	0.840	KVR	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2013-032	2456471.20	2013 Jun 27 1653:00	Strela	-	492-6391-832	1.150	RVSNR	OS	-	G	Sat LEO SO	nasaspaceflight.com	-	-
2013-048	2456547.47	2013 Sep 11 2323:04	Rokot	-	492-6391-838/72519	0.840	KVR	OS	-	G	Sat LEO L	nasaspaceflight.com	NK1311-38	-
2013-S102	2456562.63	2013 Sep 27 0301:49	UR-100NU 15A35P	-	492-6391-837	0.000	RVSNR	MF	U	-	Test	RML	russianforces.org	RPCA
2013-067	2456619.00	2013 Nov 22 1202:29	Rokot	-	492-5882-031/72524	1.419	EUROK	OS	-	CO	Sat LEO L	nasaspaceflight.com	NK1401-56	-
2013-076	2456651.52	2013 Dec 25 0031:55	Rokot	-	492-3931-130/72520	0.940	KVR	OS	-	G	Sat LEO L	NK1402-55	-	-
2014-028	2456800.73	2014 May 23 0527:54	Rokot	-	630-4393-851/72521	0.940	KVR	OS	-	G	Sat LEO L	NK1407-39	-	-
2014-036	2456842.03	2014 Jul 3 1243:52	Rokot	-	492-9794-555/72522	0.840	KVR	OS	-	G	Sat LEO L	gonets.ru	-	-
2014-084	2457010.70	2014 Dec 19 0443:32	Strela	-	630-9793-560	1.150	RVSNR	OS	-	G	Sat LEO SO	NK1502-34	nasaspaceflight.com	-
2015-A02	2457079.83	2015 Feb 26 0801:49	UR-100NU 15A35P	-	511-3922-119	0.000	RVSNR	MF	U	-	Test	RML	russianforces.org	St2FTI
2015-020	2457113.07	2015 Mar 31 1347:56	Rokot	-	492-9794-554/72526	0.775	KVR	OS	-	G	Sat LEO L	gonets.ru	NK1505-57	-
2015-050	2457289.42	2015 Sep 23 2159:38	Rokot	-	511-2361-274/72512	0.840	KVR	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2016-011	2457435.25	2016 Feb 16 1757:45	Rokot	-	492-9794-553/72525	1.250	EUROK	OS	-	CO/G	Sat SSO L	nasaspaceflight.com	-	-
2016-S24	2457497.78	2016 Apr 19 0641:55	UR-100NU 15A35P	-	492-9152-331	0.000	RVSNR	MS	-	-	Test	RPCB	russianforces.org	-
2016-034	2457544.08	2016 Jun 4 1400:14	Rokot	-	492-6391-834/72527	0.900	KVR	OS	-	G	Sat SSO L	nasaspaceflight.com	NK1608-18	-
2016-S64	2457686.88	2016 Oct 25 0900:04	UR-100NU 15A35P	-	-	0.000	RVSNR	MS	-	-	Test	RML	russianforces.org	-
2017-064	2458039.89	2017 Oct 13 0927:44	Rokot	-	511-1992-009P/72528	0.820	EUROK	OS	-	CO/G	Sat SSO L	nasaspaceflight.com	-	-
2018-039	2458234.25	2018 Apr 25 1757:51	Rokot	-	492-1992-010P/72523	1.250	EUROK	OS	-	CO/G	Sat SSO L	nasaspaceflight.com	-	-
2018-097	2458452.60	2018 Nov 30 0227:34	Rokot	-	492-3921-126/72529	0.857	KVR	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-
2018-S82	2458478.92	2018 Dec 26 0959	UR-100NU 15A35P	-	-	0.000	RVSNR	MS	-	-	Test	russianforces.org	-	-
2019-057	2458726.08	2019 Aug 30 1400	Rokot	-	492-3921-129/72530	0.900	KVR	OS	-	G	Sat SSO L	nasaspaceflight.com	-	-
2019-096	2458844.47	2019 Dec 26 2311:58	Rokot	-	-	3.112	KVR	OS	-	G	Sat LEO L	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1963-A162	2438338.93	1963 Nov 5 1024:25	UR-200	-	G10701-301	8K81 LKI-1	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	0	0	(Kura)
1964-A52	2438496.80	1964 Apr 11 0705:54	UR-200	-	R10701-601	8K81 LKI-2	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	70?	-	(Kura)
1964-S248	2438530.79	1964 May 15 0656:00	UR-200	-	-	8K81 LKI-3	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	689	-	Kura
1964-S272	2438545.67	1964 May 30 0402:51	UR-200	-	-	8K81 LKI-4	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	695	-	Kura
1964-S298	2438563.67	1964 Jun 17 0400:31	UR-200	-	-	8K81 LKI-5	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	694	-	Kura
1964-S399	2438608.75	1964 Aug 1 0554:49	UR-200	-	-	8K81 LKI-6	MGCh 8F114	-	-	NIIP-5	LC90/19	-	-	686	-	Kura
1964-S482	2438662.75	1964 Sep 24 0556:15	UR-200	-	-	8K81 LKI-7	MGCh 8F114	-	-	NIIP-5	LC90/20?	-	-	686	-	Kura
1964-S501	2438670.65	1964 Oct 2 0335:14	UR-200	-	-	8K81 LKI-8	MGCh 8F114	-	-	NIIP-5	LC90/20	-	-	681	-	Kura
1964-S533	2438688.60	1964 Oct 20 0229?	UR-200	-	-	8K81 LKI-9	MGCh 8F114	-	-	NIIP-5	LC90/20	-	-	1129	-	Kura

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1963-A162	2438338.93	1963 Nov 5 1024:25	UR-200	-	G10701-301	0.000	RVSN	MF	U	-	Test	BML	NK9801-45	NK0008-68
1964-A52	2438496.80	1964 Apr 11 0705:54	UR-200	-	R10701-601	0.000	RVSN	MF	U	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S248	2438530.79	1964 May 15 0656:00	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	[BML]1201
1964-S272	2438545.67	1964 May 30 0402:51	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S298	2438563.67	1964 Jun 17 0400:31	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S399	2438608.75	1964 Aug 1 0554:49	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S482	2438662.75	1964 Sep 24 0556:15	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S501	2438670.65	1964 Oct 2 0335:14	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-
1964-S533	2438688.60	1964 Oct 20 0229?	UR-200	-	-	0.000	RVSN	MS	-	-	Test	MS5-65	NK0008-68/NK9801-45	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2006-A04	2453921.33	2006 Jul 4 2001	Unha-1	?	1	-	-	-	-	TONGH	-	-	-	40?	-	-
2009-F02	2454926.60	2009 Apr 5 0230	Unha-2	-	2	Kwangmyongsong-2	-	-	-	TONGH	-	-	-	490?	-	-
2012-F01	2456030.44	2012 Apr 12 2238:55	Unha-3	-	3	Kwangmyongsong-3	-	-	-	SOHAE	LC1	-	-	120?	-	-
2012-072	2456273.53	2012 Dec 12 0049:46	Unha-3	-	4	Kwangmyongsong-3/F2	KMS-3 Unit 2	-	-	SOHAE	LC1	-	-	591	-	-
2016-009	2457425.52	2016 Feb 7 0030:00	Kwangmyongsong	-	5	Kwangmyongsong-4	KMS-4 Unit 1	-	-	SOHAE	LC1	-	-	502	-	-
2016-S25	2457497.90	2016 Apr 19 0933	Simorgh	-	1 MMS.B001	-	-	-	-	SEM	IKSC	-	-	200?	-	-
2017-S112	2457961.90	2017 Jul 27 0930?	Simorgh	-	2 MBS.B001	Tolou-1	-	-	-	SEM	IKSC	-	-	200?	-	-
2019-F01	2458498.52	2019 Jan 15 0030	Simorgh	-	3	Payam	-	-	-	SEM	IKSC	-	-	500?	-	-
2020-F01	2458889.16	2020 Feb 9 1548:14	Simorgh	-	4 MRS.C001	Zafar	-	-	-	SEM	IKSC	-	-	540	-	-
2021-F03	2459377.50	2021 Jun 12	Simorgh	-	5	Tolou-2?	-	-	-	SEM	IKSC	-	-	500?	-	-
2021-F11	2459578.65	2021 Dec 30 0330	Simorgh	-	6 UKS.C001	Test satellites	-	-	-	SEM	IKSC	-	-	470	-	-
2024-018	2460337.50	2024 Jan 28 0004?	Simorgh	-	7 DRS.C001	Mehda	Mehda	-	-	SEM	IKSC	-	-	-	-	-
2024-236	2460650.63	2024 Dec 6 0314?	Simorgh	-	8 TQS.C001	Sahman-1	-	-	-	SEM	IKSC	-	-	-	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2006-A04	2453921.33	2006 Jul 4 2001	Unha-1	?	1	0.000	KCST	MF	U	-	Test	Wire	-	-
2009-F02	2454926.60	2009 Apr 5 0230	Unha-2	-	2	0.050	KCST	OF	S3	G	Sat LEO 0	Wire	-	Details unknown
2012-F01	2456030.44	2012 Apr 12 2238:55	Unha-3	-	3	0.100	KCST	OF	S1	G	Sat SSO 0	Wire	-	Details uncertain
2012-072	2456273.53	2012 Dec 12 0049:46	Unha-3	-	4	0.100	KCST	OS	-	G	Sat SSO 0	northcom.mil	-	-
2016-009	2457425.52	2016 Feb 7 0030:00	Kwangmyongsong	-	5	0.100	NADA	OS	-	G	Sat SSO 0	northcom.mil	-	-
2016-S25	2457497.90	2016 Apr 19 0933	Simorgh	-	1 MMS.B001	0.000	IRSA	TS	-	-	Test	nasaspaceflight.com	-	-
2017-S112	2457961.90	2017 Jul 27 0930?	Simorgh	-	2 MBS.B001	0.000	IRSA	TF	S2	-	Test	nasaspaceflight.com	-	-
2019-F01	2458498.52	2019 Jan 15 0030	Simorgh	-	3	0.090	IRSA	OF	S2?	G	Sat LEO 0	nasaspaceflight.com	-	Details unknown
2020-F01	2458889.16	2020 Feb 9 1548:14	Simorgh	-	4 MRS.C001	0.090	IRSA	OF	S2U?	G	Sat LEO 0	nasaspaceflight.com	-	-
2021-F03	2459377.50	2021 Jun 12	Simorgh	-	5	0.090	IRSA	OF	U	G	Sat LEO 0	private-comm	-	-
2021-F11	2459578.65	2021 Dec 30 0330	Simorgh	-	6 UKS.C001	0.090	IRSA	OF	S2U?	G	Sat LEO 0	mehrnews.com	-	-
2024-018	2460337.50	2024 Jan 28 0004?	Simorgh	-	7 DRS.C001	0.042	IRSA	OS	-	G	Sat LEO 0	TLE	farsnews.ir	-
2024-236	2460650.63	2024 Dec 6 0314?	Simorgh	-	8 TQS.C001	0.400	IRSA	OS	-	G	Sat LEO 0	TLE	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-A136	2436492.50	1958 Oct 16	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	15	-	-
1960-A121	2437066.50	1960 May 12	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	10	-	-
1960-A02	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A03	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A04	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A05	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A06	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A07	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A08	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A09	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A10	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A11	2436933.50	1960	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	20	-	-
1960-A273	2437262.50	1960 Nov 24	V-1000	-	-	LKI	-	-	-	BALKH	LC6	-	-	25	-	-
1960-A297	2437278.50	1960 Dec 10	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	10	-	-
1960-A307	2437291.50	1960 Dec 23	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	10	-	-
1960-A308	2437299.50	1960 Dec 31	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	10	-	-
1961-A20	2437312.50	1961 Jan 13	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	10	-	-
1961-A22	2437313.50	1961 Jan 14	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A49	2437348.50	1961 Feb 18	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A52	2437352.50	1961 Feb 22	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A69	2437360.50	1961 Mar 2	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A71	2437362.50	1961 Mar 4	V-1000	-	-	R-12 Intercept	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A82	2437384.50	1961 Mar 26	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A09	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A10	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A11	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A151	2437459.50	1961 Jun 9	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A12	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A13	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A14	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A15	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A16	2437299.50	1961	V-1000	-	-	-	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A225	2437599.50	1961 Oct 27	V-1000	-	-	Op K-1	-	-	-	BALKH	LC6	-	-	25	-	-
1961-A226	2437599.50	1961 Oct 27	V-1000	-	-	Op K-2	-	-	-	BALKH	LC6	-	-	25	-	-
1962-A176	2437959.50	1962 Oct 22	V-1000	-	-	Op K-3	-	-	-	BALKH	LC6	-	-	25	-	-
1962-A179	2437965.50	1962 Oct 28	V-1000	-	-	Op K-4	-	-	-	BALKH	LC6	-	-	25	-	-
1962-A185	2437969.50	1962 Nov 1	V-1000	-	-	Op K-5	-	-	-	BALKH	LC6	-	-	25	-	-
1966-S541	2439399.50	1966 Oct 1	1Ya2TA	-	-	Yantar'-1	-	-	-	GTsP-4	-	-	-	370	-	-
1968-S688	2439970.50	1968 Apr 24	1Ya2TA	-	-	Yantar'-2	-	-	-	GTsP-4	-	-	-	300	-	-
1969-S721	2440494.50	1969 Oct	1Ya2TA	-	-	Ion 1	-	-	-	GTsP-4	-	-	-	300	-	-
1969-S722	2440221.50	1969?	1Ya2TA	-	-	Yantar'-3	-	-	-	GTsP-4	-	-	-	400	-	-
1970-S677	2440798.50	1970 Aug	1Ya2TA	-	-	Ion 2	-	-	-	GTsP-4	-	-	-	300	-	-
1971-S648	2440951.50	1971	1Ya2TA	-	-	Yantar'-4	-	-	-	GTsP-4	-	-	-	382	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-A136	2436492.50	1958 Oct 16	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A121	2437066.50	1960 May 12	V-1000	-	-	0.000	PRO	MF	U	-	Test	Zhelez	-	-
1960-A02	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A03	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A04	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A05	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A06	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A07	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A08	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A09	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A10	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A11	2436933.50	1960	V-1000	-	-	0.000	PRO	MS	-	-	Test	Zhelez	-	-
1960-A273	2437262.50	1960 Nov 24	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	Karpenko98	-
1960-A297	2437278.50	1960 Dec 10	V-1000	-	-	0.000	PRO	MF	U	-	ABM Test	Zhelez	-	-
1960-A307	2437291.50	1960 Dec 23	V-1000	-	-	0.000	PRO	MF	U	-	ABM Test	Zhelez	-	-
1960-A308	2437299.50	1960 Dec 31	V-1000	-	-	0.000	PRO	MF	U	-	ABM Test	Zhelez	-	-
1961-A20	2437312.50	1961 Jan 13	V-1000	-	-	0.000	PRO	MF	U	-	ABM Test	Zhelez	-	-
1961-A22	2437313.50	1961 Jan 14	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A49	2437348.50	1961 Feb 18	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A52	2437352.50	1961 Feb 22	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A69	2437360.50	1961 Mar 2	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A71	2437362.50	1961 Mar 4	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A82	2437384.50	1961 Mar 26	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Karpenko98	Zhelez	-
1961-A09	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A10	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A11	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A151	2437459.50	1961 Jun 9	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Karpenko98	-	-
1961-A12	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A13	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A14	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A15	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A16	2437299.50	1961	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A225	2437599.50	1961 Oct 27	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1961-A226	2437599.50	1961 Oct 27	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1962-A176	2437959.50	1962 Oct 22	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1962-A179	2437965.50	1962 Oct 28	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1962-A185	2437969.50	1962 Nov 1	V-1000	-	-	0.000	PRO	MS	-	-	ABM Test	Zhelez	-	-
1966-S541	2439399.50	1966 Oct 1	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	Siddiqi,pc2010	SR9,267	-
1968-S688	2439970.50	1968 Apr 24	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	Siddiqi	FTD-HT-2318775	-
1969-S721	2440494.50	1969 Oct	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	Siddiqi,pc2010	-	-
1969-S722	2440221.50	1969?	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	FTD-HT-2318775	-	-
1970-S677	2440798.50	1970 Aug	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	Siddiqi,pc2010	-	-
1971-S648	2440951.50	1971	1Ya2TA	-	-	0.000	AN	SS	-	AN/	Tech/Ionos	FTD-HT-2318775	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1942-A01	2430523.95	1942 Jun 13 1052	A-4	-	2	-	-	-	-	HVP	P7	-	-	1	-	-
1942-A02	2430587.97	1942 Aug 16 1115	A-4	-	3	-	-	-	-	HVP	P7	-	-	11	-	-
1942-S01	2430636.12	1942 Oct 3 1458	A-4	-	4	-	-	-	-	HVP	P7	-	-	85	-	-
1942-A03	2430653.50	1942 Oct 21	A-4	-	5	-	-	-	-	HVP	P7	-	-	40?	-	-
1942-M01	2430672.50	1942 Nov 9	A-4	-	6	-	-	-	-	HVP	P7	-	-	67	-	-
1942-A04	2430691.50	1942 Nov 28	A-4	-	7	-	-	-	-	HVP	P7	-	-	5?	-	-
1942-A05	2430705.50	1942 Dec 12	A-4	-	9	-	-	-	-	HVP	P7	-	-	0	-	-
1943-A01	2430731.50	1943 Jan 7	A-4	-	10	-	-	-	-	HVP	P7	-	-	0	-	-
1943-A02	2430749.50	1943 Jan 25	A-4	-	11	-	-	-	-	HVP	P7	-	-	40?	-	-
1943-A03	2430772.50	1943 Feb 17	A-4	-	12	-	-	-	-	HVP	P7	-	-	30?	-	-
1943-A04	2430774.50	1943 Feb 19	A-4	-	13	-	-	-	-	HVP	P7	-	-	1?	-	-
1943-A05	2430786.50	1943 Mar 3	A-4	-	16	-	-	-	-	HVP	P7	-	-	0	-	-
1943-S01	2430801.50	1943 Mar 18	A-4	-	18	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A06	2430808.50	1943 Mar 25	A-4	-	19	-	-	-	-	HVP	P7	-	-	0	-	-
1943-S02	2430828.50	1943 Apr 14	A-4	-	20	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S03	2430837.10	1943 Apr 22 1425	A-4	-	21	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S04	2430858.50	1943 May 14	A-4	-	22	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S05	2430870.96	1943 May 26 1100	A-4	-	26	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A07	2430871.19	1943 May 26 1630?	A-4	-	25	-	-	-	-	HVP	P7	-	-	10?	-	-
1943-S06	2430871.50	1943 May 27	A-4	-	24	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S07	2430876.50	1943 Jun 1	A-4	-	23	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S08	2430886.50	1943 Jun 11	A-4	-	29	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S09	2430891.50	1943 Jun 16	A-4	-	31	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A08	2430897.50	1943 Jun 22	A-4	-	28	-	-	-	-	HVP	P7	-	-	5?	-	-
1943-S10	2430899.50	1943 Jun 24	A-4	-	30	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S11	2430901.50	1943 Jun 26	A-4	-	36	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A09	2430904.50	1943 Jun 29	A-4	-	38	-	-	-	-	HVP	P7	-	-	1	-	-
1943-S12	2430904.50	1943 Jun 29	A-4	-	40	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A10	2430906.50	1943 Jul 1	A-4	-	33	-	-	-	-	HVP	P7	-	-	0	-	-
1943-A11	2430914.50	1943 Jul 9	A-4	-	41	-	-	-	-	HVP	P7	-	-	0	-	-
1943-A12	2430914.50	1943 Jul 9	A-4	-	34	-	-	-	-	HVP	P7	-	-	0	-	-
1943-A13	2431033.50	1943 Nov 5	A-4	-	-	Heidelager Test	-	-	-	HLG	-	-	-	1?	-	-
1943-S13	2431037.50	1943 Nov 9	A-4	-	43	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-S14	2431038.50	1943 Nov 10	A-4	-	73	-	-	-	-	HVP	P7	-	-	95?	-	-
1943-A14	2431053.54	1943 Nov 25 0100?	A-4	-	-	-	-	-	-	HLG	-	-	-	20?	-	-
1943-A15	2431063.54	1943 Dec 5 0100	A-4	-	-	-	-	-	-	HLG	-	-	-	20?	-	-
1944-S05	2431095.54	1944 Jan 6 0100?	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S01	2431089.50	1944 Jan	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S02	2431089.50	1944 Jan	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S03	2431089.50	1944 Jan	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S04	2431089.50	1944 Jan	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-A01	2431116.50	1944 Jan 27	A-4	-	17003	Mittelwerk Eval	-	-	-	HVP	P7	-	-	0	-	-
1944-A02	2431119.40	1944 Jan 29 2130?	A-4	-	-	-	-	-	-	HLG	-	-	-	0	-	-
1944-S06	2431120.50	1944 Feb	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S07	2431120.50	1944 Feb	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S08	2431120.50	1944 Feb	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S09	2431120.50	1944 Feb	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S10	2431120.50	1944 Feb	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S11	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S12	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S13	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S14	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S15	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S16	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S17	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S18	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S19	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S20	2431149.50	1944 Mar	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-A33	2431166.96	1944 Mar 17 1100?	A-4	-	17.047	-	-	-	-	HVP	P7	-	-	1?	-	-
1944-S22	2431181.45	1944 Mar 31 2250?	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S21	2431180.50	1944 Apr	A-4	-	-	(30 in Apr?)	-	-	-	HLG	-	-	-	90?	-	-
1944-S23	2431194.50	1944 Apr 14	A-4	-	17.063	-	-	-	-	HVP	P7	-	-	90?	-	-
1944-S24	2431210.50	1944 May	A-4	-	-	(30 in May?)	-	-	-	HLG	-	-	-	90?	-	-
1944-S25	2431230.50	1944 May 20	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S26	2431236.96	1944 May 26 1100?	A-4	-	-	-	-	-	-	HVP	P7	-	-	90?	-	-
1944-A05	2431237.08	1944 May 26 1400?	A-4	-	-	-	-	-	-	HVP	P7	-	-	1?	-	-
1944-A06	2431242.50	1944 Jun 1	A-4	-	-	-	-	-	-	HVP	P7	-	-	0?	-	-
1944-M01	2431255.13	1944 Jun 13 1503	A-4	-	V89	Kalmar impact	-	-	-	HVP	P7	-	-	50?	-	-
1944-S27	2431241.50	1944 Jun	A-4	-	-	-	-	-	-	HLG	-	-	-	90?	-	-
1944-S28	2431241.50	1944 Jun	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	120?	-	-
1944-S313	2431241.50	1944 Jun	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	110?	-	-
1944-S314	2431241.50	1944 Jun	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	110?	-	-
1944-S315	2431241.50	1944 Jun	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	110?	-	-
1944-S316	2431241.50	1944 Jun	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	110?	-	-
1944-S317	2431261.50	1944 Jun 20?	A-4	-	-	Vertical test	-	-	-	HVP	GWO	-	-	110?	-	-
1944-S29	2431295.50	1944 Jul 24	A-4	-	-	Last Blizna launch	-	-	-	HLG	-	-	-	90?	-	-
1944-S318	2431302.50	1944 Jul 31?	A-4	-	V205	-	-	-	-	HVP	P7	-	-	90?	-	-
1944-S31	2431316.17	1944 Aug 13 1607	V-2	-	18296	Ma100	-	-	-	HKR	-	-	-	90?	-	-
1944-S32	2431316.26	1944 Aug 13 1815	V-2	-	18292	Ma106	-	-	-	HKR	-	-	-	90?	-	-
1944-A07	2431316.78	1944 Aug 14 0637	V-2	-	18298	Ma115	-	-	-	HKR	-	-	-	0?	-	-
1944-A08	2431316.80	1944 Aug 14 0717	V-2	-	18307	Ma125	-	-	-	HKR	-	-	-	40?	-	-
1944-A09	2431316.88	1944 Aug 14 0904	V-2	-	18302	Ma119	-	-	-	HKR	-	-	-	1?	-	-
1944-S33	2431316.90	1944 Aug 14 0933	V-2	-	18291	Ma108	-	-	-	HKR	-	-	-	90?	-	-
1944-S34	2431316.91	1944 Aug 14 0952	V-2	-	18301	Ma118	-	-	-	HKR	-	-	-	90?	-	-
1944-S35	2431316.97	1944 Aug 14 1123	V-2	-	18303	Ma120	-	-	-	HKR	-	-	-	90?	-	-
1944-S36	2431317.04	1944 Aug 14 1253	V-2	-	18305	Ma123	-	-	-	HKR	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-A10	2431317.23	1944 Aug 14 1730	V-2	-	18308	Ma126	-	-	-	HKR	-	-	-	0	-	-
1944-S37	2431317.31	1944 Aug 14 1928	V-2	-	18309	Ma127	-	-	-	HKR	-	-	-	90?	-	-
1944-S38	2431317.92	1944 Aug 15 1008	A-4	-	18311	Ma113	-	-	-	HKR	-	-	-	90?	-	-
1944-S39	2431317.95	1944 Aug 15 1054	A-4	-	18312	Ma114	-	-	-	HKR	-	-	-	90?	-	-
1944-S40	2431318.00	1944 Aug 15 1157	A-4	-	18310	Ma128	-	-	-	HKR	-	-	-	90?	-	-
1944-S41	2431318.11	1944 Aug 15 1441	A-4	-	18314	Ma131	-	-	-	HKR	-	-	-	90?	-	-
1944-S42	2431318.21	1944 Aug 15 1704	A-4	-	18321	Ma143	-	-	-	HKR	-	-	-	90?	-	-
1944-S43	2431318.23	1944 Aug 15 1724	A-4	-	18315	Ma132	-	-	-	HKR	-	-	-	90?	-	-
1944-S44	2431318.32	1944 Aug 15 1937	A-4	-	18319	Ma140	-	-	-	HKR	-	-	-	90?	-	-
1944-S45	2431318.81	1944 Aug 16 0723	A-4	-	18318	Ma138	-	-	-	HKR	-	-	-	90?	-	-
1944-S46	2431318.82	1944 Aug 16 0738	A-4	-	18317	Ma136	-	-	-	HKR	-	-	-	90?	-	-
1944-S47	2431318.94	1944 Aug 16 1040	V-2	-	18295	Ma111	-	-	-	HKR	-	-	-	90?	-	-
1944-S48	2431318.95	1944 Aug 16 1053	A-4	-	18323	Ma129	-	-	-	HKR	-	-	-	90?	-	-
1944-S49	2431319.10	1944 Aug 16 1430	A-4	-	18328	Ma133	-	-	-	HKR	-	-	-	90?	-	-
1944-S50	2431320.03	1944 Aug 17 1242	A-4	-	18320	Ma142	-	-	-	HKR	-	-	-	90?	-	-
1944-A11	2431320.04	1944 Aug 17 1256	V-2	-	18300	Ma116	-	-	-	HKR	-	-	-	10?	-	-
1944-S51	2431320.05	1944 Aug 17 1314	A-4	-	18316	Ma134	-	-	-	HKR	-	-	-	90?	-	-
1944-S52	2431320.06	1944 Aug 17 1331	V-2	-	18290	Ma109	-	-	-	HKR	-	-	-	90?	-	-
1944-S53	2431320.19	1944 Aug 17 1639	A-4	-	18327	Ma147	-	-	-	HKR	-	-	-	90?	-	-
1944-S54	2431320.22	1944 Aug 17 1723	A-4	-	18324	Ma144	-	-	-	HKR	-	-	-	90?	-	-
1944-S55	2431320.23	1944 Aug 17 1735	V-2	-	18306	Ma124	-	-	-	HKR	-	-	-	90?	-	-
1944-S56	2431320.36	1944 Aug 17 2045	A-4	-	18325	Ma107	-	-	-	HKR	-	-	-	90?	-	-
1944-S57	2431320.82	1944 Aug 18 0746	A-4	-	18326	Ma146	-	-	-	HKR	-	-	-	90?	-	-
1944-S58	2431321.04	1944 Aug 18 1259	A-4	-	18345	Ma150	-	-	-	HKR	-	-	-	90?	-	-
1944-A12	2431321.19	1944 Aug 18 1633	A-4	-	18350	Ma156	-	-	-	HKR	-	-	-	40?	-	-
1944-S59	2431321.20	1944 Aug 18 1645	A-4	-	18336	Ma121	-	-	-	HKR	-	-	-	90?	-	-
1944-S60	2431321.31	1944 Aug 18 1929	A-4	-	18339	Ma157	-	-	-	HKR	-	-	-	90?	-	-
1944-S61	2431321.32	1944 Aug 18 1940	A-4	-	18349	Ma135	-	-	-	HKR	-	-	-	90?	-	-
1944-S62	2431321.35	1944 Aug 18 2028	A-4	-	18346	Ma112	-	-	-	HKR	-	-	-	90?	-	-
1944-S63	2431325.30	1944 Aug 22 1906	A-4	-	18322	Ma141	-	-	-	HKR	-	-	-	90?	-	-
1944-S64	2431326.32	1944 Aug 23 1946	A-4	-	18210	Ma30	-	-	-	HKR	-	-	-	90?	-	-
1944-S65	2431327.11	1944 Aug 24 1439	A-4	-	18209	Ma29	-	-	-	HKR	-	-	-	90?	-	-
1944-A13	2431328.71	1944 Aug 26 0457	A-4	-	18344	Ma155	-	-	-	HKR	-	-	-	10?	-	-
1944-S66	2431328.73	1944 Aug 26 0536	A-4	-	18337	Ma148	-	-	-	HKR	-	-	-	90?	-	-
1944-S67	2431328.91	1944 Aug 26 0954	A-4	-	18333	Ma153	-	-	-	HKR	-	-	-	90?	-	-
1944-S68	2431332.98	1944 Aug 30 1125	A-4	-	18299	Ma117	-	-	-	HVP	SK	-	-	93?	-	-
1944-S69	2431333.16	1944 Aug 30 1544	A-4	-	18334	Ma154	-	-	-	HKR	-	-	-	90?	-	-
1944-S70	2431333.17	1944 Aug 30 1610	A-4	-	18338	Ma137	-	-	-	HKR	-	-	-	90?	-	-
1944-A14	2431336.16	1944 Sep 2 1545	A-4	-	18293	Ma93	-	-	-	HVP	SK	-	-	35?	-	-
1944-A15	2431339.90	1944 Sep 6 0930	V-2	-	18589	Paris	-	-	-	V2VIEL	-	-	-	1?	-	-
1944-A16	2431339.94	1944 Sep 6 1040	V-2	-	18593	Paris	-	-	-	V2VIEL	-	-	-	1?	-	-
1944-S81	2431341.82	1944 Sep 8 0734	V-2	-	-	Paris	-	-	-	V2HOUF	-	-	-	95?	-	-
1944-S71	2431341.50	1944 Sep 8?	A-4	-	-	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S82	2431342.19	1944 Sep 8 1635	V-2	-	-	London	-	-	-	V2HAAG	LP1	-	-	95?	-	-
1944-S83	2431342.19	1944 Sep 8 1636	V-2	-	-	London	-	-	-	V2HAAG	LP1	-	-	95?	-	-
1944-S84	2431344.31	1944 Sep 10 1924?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S85	2431344.79	1944 Sep 11 0702?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S86	2431344.81	1944 Sep 11 0725?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S87	2431345.76	1944 Sep 12 0610?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S88	2431345.76	1944 Sep 12 0614?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S89	2431345.78	1944 Sep 12 0647?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S90	2431346.01	1944 Sep 12 1215	A-4	-	18769	Ma184	-	-	-	HKR	-	-	-	90?	-	-
1944-S91	2431346.16	1944 Sep 12 1550?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S92	2431346.63	1944 Sep 13 0303	A-4	-	18767	Ma173	-	-	-	HKR	-	-	-	90?	-	-
1944-S93	2431347.38	1944 Sep 13 2100?	V-2	-	-	London	-	-	-	V2VUGHT	-	-	-	95?	-	-
1944-S94	2431347.13	1944 Sep 13 1508	A-4	-	18765	Ma178	-	-	-	HKR	-	-	-	90?	-	-
1944-M02	2431347.20	1944 Sep 13 1647	A-4	-	18181	M140	-	-	-	HVP	SK	-	-	64?	-	-
1944-S95	2431347.50	1944 Sep 14	A-4	-	18014	Vertical test	MW18014	-	-	HVP	GWO	-	-	175	-	-
1944-S96	2431347.50	1944 Sep 14	V-2	-	-	Lille	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S97	2431347.50	1944 Sep 14	V-2	-	-	Mons	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S100	2431347.62	1944 Sep 14 0248?	V-2	-	-	London	-	-	-	V2HAAG	LP2	-	-	95?	-	-
1944-S319	2431347.50	1944 Sep 14	V-2	-	-	London	-	-	-	V2HAAG	LP2	-	-	95?	-	-
1944-S320	2431347.50	1944 Sep 14	V-2	-	-	London	-	-	-	V2HAAG	LP2	-	-	95?	-	-
1944-S98	2431347.95	1944 Sep 14 1046	A-4	-	18745	Ma160	-	-	-	HKR	-	-	-	90?	-	-
1944-S99	2431348.09	1944 Sep 14 1412	A-4	-	18755	Ma174	-	-	-	HKR	-	-	-	90?	-	-
1944-S321	2431348.59	1944 Sep 15 0204	V-2	-	-	London/Sunbury	-	-	-	V2WAL	-	-	-	90?	-	-
1944-S322	2431348.50	1944 Sep 15	V-2	-	-	London/All Hallows	-	-	-	V2WAL?	-	-	-	90?	-	-
1944-A17	2431348.94	1944 Sep 15 1037	A-4	-	18756	Ma171	-	-	-	HKR	-	-	-	1?	-	-
1944-S72	2431333.50	1944 Sep	V-2	-	-	Liege	-	-	-	V2HAAG	-	-	-	95?	-	-
1944-A18	2431349.25	1944 Sep 15 1754	A-4	-	18763	Ma177	-	-	-	HKR	-	-	-	5?	-	-
1944-S101	2431349.50	1944 Sep 16?	V-2	-	-	Lille x6	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S102	2431349.50	1944 Sep 16?	V-2	-	-	Mons x3	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S105	2431349.99	1944 Sep 16 1150	A-4	-	18746	Ma161	-	-	-	HKR	-	-	-	90?	-	-
1944-S106	2431350.20	1944 Sep 16 1655	A-4	-	18750	Ma166	-	-	-	HKR	-	-	-	90?	-	-
1944-S103	2431349.50	1944 Sep 16	V-2	-	-	London	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S104	2431349.50	1944 Sep 16?	V-2	-	-	London	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S107	2431350.50	1944 Sep 17?	V-2	-	-	London	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S108	2431350.50	1944 Sep 17	V-2	-	-	London	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S109	2431350.94	1944 Sep 17 1036	A-4	-	18752	Ma162	-	-	-	HKR	-	-	-	90?	-	-
1944-S110	2431351.08	1944 Sep 17 1355	A-4	-	18754	Ma170	-	-	-	HKR	-	-	-	90?	-	-
1944-S111	2431350.50	1944 Sep 17?	V-2	-	-	London	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S113	2431351.92	1944 Sep 18 0958	A-4	-	18755	Ma169	-	-	-	HKR	-	-	-	90?	-	-
1944-S112	2431351.50	1944 Sep 18	V-2	-	-	London/W Norwood	-	-	-	V2WAL	-	-	-	95?	-	-
1944-S114	2431351.95	1944 Sep 18 1048	A-4	-	18747	Ma164	-	-	-	HKR	-	-	-	90?	-	-
1944-S115	2431352.10	1944 Sep 18 1422	A-4	-	18766	Ma183	-	-	-	HKR	-	-	-	90?	-	-
1944-S116	2431352.18	1944 Sep 18 1625	A-4	-	18762	Ma176	-	-	-	HKR	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-S117	2431352.50	1944 Sep 19	V-2	-	-	Tournai	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S118	2431353.09	1944 Sep 19 1411	A-4	-	18753	Ma159	-	-	-	HKR	-	-	-	90?	-	-
1944-S119	2431353.17	1944 Sep 19 1609	A-4	-	18764	Ma179	-	-	-	HKR	-	-	-	90?	-	-
1944-S120	2431353.50	1944 Sep 20?	V-2	-	-	Lille	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S121	2431353.50	1944 Sep 20?	V-2	-	-	Arras	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S122	2431353.50	1944 Sep 20?	V-2	-	-	Cambrai	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S123	2431353.50	1944 Sep 20?	V-2	-	-	Liege	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S124	2431353.50	1944 Sep 20?	V-2	-	-	Maastricht	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S125	2431353.50	1944 Sep 20?	V-2	-	-	Lille	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S126	2431353.50	1944 Sep 20?	V-2	-	-	Arras	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S127	2431353.50	1944 Sep 20?	V-2	-	-	Liege	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S128	2431353.50	1944 Sep 20?	V-2	-	-	Maastricht	-	-	-	V2EUS	-	-	-	95?	-	-
1944-S129	2431354.80	1944 Sep 21 0711	A-4	-	18824	Ma214	-	-	-	HKR	-	-	-	90?	-	-
1944-S130	2431355.01	1944 Sep 21 1211	A-4	-	18822	Ma211	-	-	-	HKR	-	-	-	90?	-	-
1944-S131	2431355.81	1944 Sep 22 0726	A-4	-	18825	Ma213	-	-	-	HKR	-	-	-	90?	-	-
1944-S132	2431356.26	1944 Sep 22 1816	A-4	-	18826	Ma215	-	-	-	HKR	-	-	-	90?	-	-
1944-A19	2431356.89	1944 Sep 23 0928	A-4	-	18823	Ma212	-	-	-	HKR	-	-	-	20?	-	-
1944-S133	2431357.16	1944 Sep 23 1544	A-4	-	18821	Ma210	-	-	-	HKR	-	-	-	90?	-	-
1944-S134	2431357.27	1944 Sep 23 1826	A-4	-	18831	Ma217	-	-	-	HKR	-	-	-	90?	-	-
1944-S135	2431357.97	1944 Sep 24 1123	A-4	-	18827	Ma216	-	-	-	HKR	-	-	-	90?	-	-
1944-S136	2431358.50	1944 Sep 25?	V-2	-	-	Lille	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S137	2431358.50	1944 Sep 25?	V-2	-	-	Arras	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S138	2431358.50	1944 Sep 25?	V-2	-	-	Cambrai	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S139	2431358.50	1944 Sep 25?	V-2	-	-	Liege	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S140	2431358.50	1944 Sep 25?	V-2	-	-	Maastricht	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S141	2431358.50	1944 Sep 25?	V-2	-	-	Lille	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S142	2431358.50	1944 Sep 25?	V-2	-	-	Liege	-	-	-	V2HACH	-	-	-	95?	-	-
1944-S73	2431333.50	1944 Sep	V-2	-	-	Hasselt	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S74	2431333.50	1944 Sep	V-2	-	-	Hasselt	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S75	2431333.50	1944 Sep	V-2	-	-	Hasselt x4	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S76	2431333.50	1944 Sep	V-2	-	-	Tournai x6	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S77	2431333.50	1944 Sep	V-2	-	-	Maastricht x8	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S78	2431333.50	1944 Sep	V-2	-	-	Maastricht x4	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S79	2431333.50	1944 Sep	V-2	-	-	Liege x4	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S80	2431333.50	1944 Sep	V-2	-	-	Liege x8	-	-	-	V2BURG	-	-	-	95?	-	-
1944-S143	2431358.50	1944 Sep 25	V-2	-	-	Norwich	-	-	-	V2STAV	LP1	-	-	95?	-	-
1944-S144	2431358.91	1944 Sep 25 0956	A-4	-	18815	Ma223	-	-	-	HKR	-	-	-	90?	-	-
1944-S145	2431358.99	1944 Sep 25 1141	A-4	-	18808	Ma225	-	-	-	HKR	-	-	-	90?	-	-
1944-S146	2431359.19	1944 Sep 25 1631	A-4	-	18833	Ma226	-	-	-	HKR	-	-	-	90?	-	-
1944-S147	2431359.29	1944 Sep 25 1859	A-4	-	18807	Ma224	-	-	-	HKR	-	-	-	90?	-	-
1944-S148	2431359.31	1944 Sep 25 1925	A-4	-	18800	Ma218	-	-	-	HKR	-	-	-	90?	-	-
1944-S149	2431359.97	1944 Sep 26 1123	A-4	-	18802	Ma219	-	-	-	HKR	-	-	-	90?	-	-
1944-S150	2431360.05	1944 Sep 26 1317	A-4	-	18805	Ma221	-	-	-	HKR	-	-	-	90?	-	-
1944-S151	2431360.06	1944 Sep 26 1327	A-4	-	18806	Ma222	-	-	-	HKR	-	-	-	90?	-	-
1944-S152	2431360.31	1944 Sep 26 1932	A-4	-	18804	Ma220	-	-	-	HKR	-	-	-	90?	-	-
1944-S153	2431360.34	1944 Sep 26 2013	V-2	-	18770	Ma186	-	-	-	HKR?	-	-	-	90?	-	-
1944-A59	2431359.50	1944 Sep 26	V-2	-	-	London	-	-	-	V2STAV	LP1	-	-	10?	-	-
1944-S156	2431360.93	1944 Sep 27 1015	V-2	-	18771	Ma185	-	-	-	HKR?	-	-	-	90?	-	-
1944-S157	2431360.95	1944 Sep 27 1050	A-4	-	18837	Ma208	-	-	-	HKR	-	-	-	90?	-	-
1944-S154	2431360.50	1944 Sep 27?	V-2	-	-	Ipswich	-	-	-	V2STAV	LP1	-	-	95?	-	-
1944-S155	2431360.50	1944 Sep 27?	V-2	-	-	Norwich	-	-	-	V2STAV	LP1	-	-	95?	-	-
1944-S164	2431364.17	1944 Sep 30 1605	V-2	-	18774	Ma189	-	-	-	HKR?	-	-	-	90?	-	-
1944-S165	2431364.37	1944 Sep 30 2048	V-2	-	18788	Ma182	-	-	-	HKR?	-	-	-	90?	-	-
1944-S166	2431364.45	1944 Sep 30 2243	V-2	-	18794	Ma175	-	-	-	HKR?	-	-	-	90?	-	-
1944-S167	2431364.91	1944 Oct 1 0946	V-2	-	18777	Ma192	-	-	-	HKR?	-	-	-	90?	-	-
1944-S168	2431364.98	1944 Oct 1 1125	V-2	-	18772	Ma187	-	-	-	HKR?	-	-	-	90?	-	-
1944-S169	2431365.01	1944 Oct 1 1218	V-2	-	18773	Ma188	-	-	-	HKR?	-	-	-	90?	-	-
1944-S170	2431365.50	1944 Oct 2	V-2	-	-	Paris?	-	-	-	V2MERZ	-	-	-	90?	-	-
1944-S324	2431365.50	1944 Oct 2?	V-2	-	-	Test (post bombing)	-	-	-	HVP	-	-	-	90?	-	-
1944-S171	2431365.90	1944 Oct 2 0938	V-2	-	18778	Ma193	-	-	-	HKR?	-	-	-	90?	-	-
1944-S172	2431365.93	1944 Oct 2 1019	V-2	-	18776	Ma190	-	-	-	HKR?	-	-	-	90?	-	-
1944-S173	2431366.27	1944 Oct 2 1832	V-2	-	18796	Ma203	-	-	-	HKR?	-	-	-	90?	-	-
1944-S174	2431366.30	1944 Oct 2 1908	V-2	-	18795	Ma202	-	-	-	HKR?	-	-	-	90?	-	-
1944-S325	2431366.50	1944 Oct 3	V-2	-	-	London	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S326	2431366.50	1944 Oct 3	V-2	-	-	London	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S327	2431366.50	1944 Oct 3	V-2	-	-	London	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S328	2431366.50	1944 Oct 3	V-2	-	-	London	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S329	2431366.50	1944 Oct 3	V-2	-	-	London	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S330	2431367.38	1944 Oct 3 2100?	V-2	-	-	London/Wanstead UK43	-	-	-	V2HAAG?	-	-	-	90?	-	-
1944-S158	2431363.50	1944 Oct	V-2	-	-	Paris?	-	-	-	V2MERZ	-	-	-	90?	-	-
1944-S175	2431367.50	1944 Oct 4	V-2	-	-	London?	-	-	-	V2HAAG	-	-	-	90?	-	-
1944-S176	2431368.81	1944 Oct 5 0720	V-2	-	18799	Ma204	-	-	-	HKR?	-	-	-	90?	-	-
1944-S177	2431368.82	1944 Oct 5 0738	V-2	-	18798	Ma205	-	-	-	HKR?	-	-	-	90?	-	-
1944-S178	2431369.06	1944 Oct 5 1330	V-2	-	18792	Ma199	-	-	-	HKR?	-	-	-	90?	-	-
1944-S179	2431369.12	1944 Oct 5 1453	V-2	-	18797	Ma206	-	-	-	HKR?	-	-	-	90?	-	-
1944-S180	2431369.15	1944 Oct 5 1530	V-2	-	18803	Ma207	-	-	-	HKR?	-	-	-	90?	-	-
1944-S181	2431369.27	1944 Oct 5 1831	V-2	-	18791	Ma200	-	-	-	HKR?	-	-	-	90?	-	-
1944-S182	2431369.35	1944 Oct 5 2019	V-2	-	18790	Ma198	-	-	-	HKR?	-	-	-	90?	-	-
1944-S159	2431363.50	1944 Oct	V-2	-	-	London?	-	-	-	V2HAAG	-	-	-	90?	-	-
1944-S183	2431369.50	1944 Oct 6	V-2	-	-	Paris?	-	-	-	V2MERZ	-	-	-	90?	-	-
1944-S184	2431369.96	1944 Oct 6 1104	V-2	-	19041	WH3	-	-	-	HKR?	-	-	-	90?	-	-
1944-S185	2431370.08	1944 Oct 6 1354	V-2	-	19048	WH4	-	-	-	HKR?	-	-	-	90?	-	-
1944-S186	2431372.96	1944 Oct 9 1104	V-2	-	19045	WH9	-	-	-	HKR?	-	-	-	90?	-	-
1944-S187	2431373.05	1944 Oct 9 1307	V-2	-	19047	WH1	-	-	-	HKR?	-	-	-	90?	-	-
1944-S188	2431373.08	1944 Oct 9 1359	V-2	-	19039	WH2	-	-	-	HKR?	-	-	-	90?	-	-
1944-S189	2431373.14	1944 Oct 9 1527	V-2	-	19043	WH10	-	-	-	HKR?	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-S190	2431373.20	1944 Oct 9 1642	V-2	-	19042	WH6	-	-	-	HKR?	-	-	-	90?	-	-
1944-S191	2431373.91	1944 Oct 10 0955	V-2	-	19046	WH7	-	-	-	HKR?	-	-	-	90?	-	-
1944-S192	2431373.99	1944 Oct 10 1142	V-2	-	19040	WH5	-	-	-	HKR?	-	-	-	90?	-	-
1944-S193	2431374.02	1944 Oct 10 1231	V-2	-	19044	WH8	-	-	-	HKR?	-	-	-	90?	-	-
1944-S194	2431374.11	1944 Oct 10 1438	V-2	-	18810	Ma229	-	-	-	HKR?	-	-	-	90?	-	-
1944-S195	2431374.20	1944 Oct 10 1643	V-2	-	18813	Ma228	-	-	-	HKR?	-	-	-	90?	-	-
1944-S196	2431374.33	1944 Oct 10 2001	V-2	-	18809	Ma230	-	-	-	HKR?	-	-	-	90?	-	-
1944-S197	2431374.91	1944 Oct 11 0952	V-2	-	18811	Ma231	-	-	-	HKR?	-	-	-	90?	-	-
1944-S198	2431375.07	1944 Oct 11 1347	V-2	-	18816	Ma234	-	-	-	HKR?	-	-	-	90?	-	-
1944-S199	2431375.19	1944 Oct 11 1634	V-2	-	18814	Ma233	-	-	-	HKR?	-	-	-	90?	-	-
1944-S200	2431375.25	1944 Oct 11 1753	V-2	-	18818	Ma236	-	-	-	HKR?	-	-	-	90?	-	-
1944-S160	2431376.85	1944 Oct 13 0830?	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S201	2431377.64	1944 Oct 14 0324	V-2	-	18812	Ma232	-	-	-	HKR?	-	-	-	90?	-	-
1944-S203	2431377.72	1944 Oct 14 0511	V-2	-	18817	Ma235	-	-	-	HKR?	-	-	-	90?	-	-
1944-S202	2431377.67	1944 Oct 14 0412	V-2	-	18819	Ma237	-	-	-	HKR?	-	-	-	90?	-	-
1944-S161	2431363.50	1944 Oct	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S162	2431363.50	1944 Oct	V-2	-	-	Antwerp	-	-	-	V2MERZ	-	-	-	90?	-	-
1944-S163	2431363.50	1944 Oct	V-2	-	-	Antwerp	-	-	-	V2HERM	-	-	-	90?	-	-
1944-S204	2431379.50	1944 Oct 16	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S205	2431383.50	1944 Oct 20	V-2	-	-	Antwerp	-	-	-	V2STAV	-	-	-	95?	-	-
1944-S206	2431383.50	1944 Oct 20	V-2	-	-	London/Croydon	-	-	-	V2HAAG	-	-	-	95?	-	-
1944-S323	2431385.50	1944 Oct 22	V-2	-	-	Brussels/Deurne	-	-	-	UNKV2	-	-	-	90?	-	-
1944-A60	2431391.00	1944 Oct 27 1200	V-2	-	-	-	-	-	-	V2VUGHT	-	-	-	0	-	-
1944-S207	2431391.95	1944 Oct 28 1048	V-2	-	19487	Ma239	-	-	-	HKR?	-	-	-	90?	-	-
1944-S208	2431393.08	1944 Oct 29 1353	V-2	-	19486	Ma242	-	-	-	HKR?	-	-	-	90?	-	-
1944-S331	2431393.72	1944 Oct 30 0510?	V-2	-	-	London/Barking	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S209	2431393.91	1944 Oct 30 0951	V-2	-	19484	Ma238	-	-	-	HKR?	-	-	-	90?	-	-
1944-S210	2431394.15	1944 Oct 30 1541	V-2	-	19498	Ma243	-	-	-	HKR?	-	-	-	90?	-	-
1944-S332	2431393.50	1944 Oct 30	V-2	-	-	London/West Ham	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S333	2431393.50	1944 Oct 30	V-2	-	-	London/Wapping	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S334	2431394.54	1944 Oct 31 0051?	V-2	-	-	London/Hanwell	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S335	2431394.50	1944 Oct 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S336	2431394.50	1944 Oct 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S337	2431394.50	1944 Oct 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S338	2431394.50	1944 Oct 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S339	2431394.50	1944 Oct 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S217	2431394.96	1944 Oct 31 1057	V-2	-	19488	Ma240	-	-	-	HKR?	-	-	-	90?	-	-
1944-S218	2431395.00	1944 Oct 31 1205	V-2	-	19491	Ma245	-	-	-	HKR?	-	-	-	90?	-	-
1944-S219	2431395.23	1944 Oct 31 1731	V-2	-	19489	Ma244	-	-	-	HKR?	-	-	-	90?	-	-
1944-S340	2431395.51	1944 Nov 1 0010?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S341	2431395.63	1944 Nov 1 0308?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S342	2431396.19	1944 Nov 1 1627?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S211	2431395.50	1944 Nov 1	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S212	2431395.50	1944 Nov 1	V-2	-	-	Antwerp (60/day)	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S213	2431395.50	1944 Nov 1	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S214	2431394.50	1944 Nov	V-2	-	-	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S215	2431394.50	1944 Nov	V-2	-	-	Antwerp	-	-	-	V2HERM	-	-	-	90?	-	-
1944-S216	2431394.50	1944 Nov	V-2	-	-	Antwerp	-	-	-	V2HACH	-	-	-	90?	-	-
1944-S220	2431395.94	1944 Nov 1 1027	V-2	-	19504	Ma246	-	-	-	HKR	-	-	-	90?	-	-
1944-S221	2431396.18	1944 Nov 1 1620	V-2	-	19490	Ma247	-	-	-	HKR	-	-	-	90?	-	-
1944-S222	2431396.88	1944 Nov 2 0914	V-2	-	19492	Ma249	-	-	-	HKR	-	-	-	90?	-	-
1944-S223	2431396.95	1944 Nov 2 1054	V-2	-	19493	Ma248	-	-	-	HKR	-	-	-	90?	-	-
1944-S224	2431397.49	1944 Nov 2 2350	V-2	-	19494	Ma251	-	-	-	HKR	-	-	-	90?	-	-
1944-S225	2431397.79	1944 Nov 3 0652	V-2	-	19496	Ma250	-	-	-	HKR	-	-	-	90?	-	-
1944-S226	2431399.18	1944 Nov 4 1614	V-2	-	19495	Ma253	-	-	-	HKR	-	-	-	90?	-	-
1944-S227	2431399.21	1944 Nov 4 1704	V-2	-	19497	Ma252	-	-	-	HKR	-	-	-	90?	-	-
1944-S343	2431399.52	1944 Nov 5 0031?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S344	2431399.56	1944 Nov 5 0130?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S345	2431399.74	1944 Nov 5 0540?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S346	2431399.87	1944 Nov 5 0850?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S228	2431399.88	1944 Nov 5 0906	V-2	-	19502	Ma257	-	-	-	HKR	-	-	-	90?	-	-
1944-S347	2431399.50	1944 Nov 5	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S229	2431400.06	1944 Nov 5 1333	V-2	-	19500	Ma256	-	-	-	HKR	-	-	-	90?	-	-
1944-S348	2431400.11	1944 Nov 5 1436?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S349	2431400.13	1944 Nov 5 1507?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S230	2431400.15	1944 Nov 5 1543	V-2	-	19501	Ma254	-	-	-	HKR	-	-	-	90?	-	-
1944-S350	2431400.82	1944 Nov 6 0740?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S231	2431400.30	1944 Nov 5 1906	V-2	-	19499	Ma255	-	-	-	HKR	-	-	-	90?	-	-
1944-S232	2431401.02	1944 Nov 6 1236	V-2	-	19508	Ma264	-	-	-	HKR	-	-	-	90?	-	-
1944-S233	2431401.94	1944 Nov 7 1028	V-2	-	19511	Ma265	-	-	-	HKR	-	-	-	90?	-	-
1944-S234	2431402.02	1944 Nov 7 1235	V-2	-	19514	Ma266	-	-	-	HKR	-	-	-	90?	-	-
1944-S235	2431402.17	1944 Nov 7 1602	V-2	-	19506	Ma260	-	-	-	HKR	-	-	-	90?	-	-
1944-S236	2431402.44	1944 Nov 7 2235	V-2	-	19507	Ma258	-	-	-	HKR	-	-	-	90?	-	-
1944-S237	2431403.00	1944 Nov 8 1202	V-2	-	19509	Ma259	-	-	-	HKR	-	-	-	90?	-	-
1944-S238	2431404.16	1944 Nov 9 1550	V-2	-	19520	Ma285	-	-	-	HKR	-	-	-	90?	-	-
1944-S239	2431404.90	1944 Nov 10 0931	V-2	-	19516	Ma280	-	-	-	HKR	-	-	-	90?	-	-
1944-S240	2431405.00	1944 Nov 10 1206	V-2	-	19518	Ma282	-	-	-	HKR	-	-	-	90?	-	-
1944-S351	2431405.01	1944 Nov 10 1215?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S352	2431406.50	1944 Nov 12	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S241	2431406.94	1944 Nov 12 1038	V-2	-	19528	Ma278	-	-	-	HKR	-	-	-	90?	-	-
1944-S242	2431407.10	1944 Nov 12 1428	V-2	-	19510	Ma263	-	-	-	HKR	-	-	-	90?	-	-
1944-S243	2431407.91	1944 Nov 13 0952	V-2	-	19512	Ma262	-	-	-	HKR	-	-	-	90?	-	-
1944-S244	2431408.01	1944 Nov 13 1210	V-2	-	19513	Ma267	-	-	-	HKR	-	-	-	90?	-	-
1944-S245	2431408.87	1944 Nov 14 0859	V-2	-	19525	Ma283	-	-	-	HKR	-	-	-	90?	-	-
1944-S246	2431408.96	1944 Nov 14 1109	V-2	-	19517	Ma279	-	-	-	HKR	-	-	-	90?	-	-
1944-S247	2431409.94	1944 Nov 15 1035	V-2	-	19549	Ma288	-	-	-	HKR	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-S248	2431410.00	1944 Nov 15 1202	V-2	-	19548	Ma289	-	-	-	HKR	-	-	-	90?	-	-
1944-S353	2431410.50	1944 Nov 16	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S354	2431410.50	1944 Nov 16	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S355	2431410.50	1944 Nov 16	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S356	2431411.50	1944 Nov 17	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S249	2431413.29	1944 Nov 18 1900	V-2	-	19544	Ma290	-	-	-	HKR	-	-	-	90?	-	-
1944-S357	2431413.50	1944 Nov 19	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S358	2431413.50	1944 Nov 19	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S250	2431413.93	1944 Nov 19 1014	V-2	-	19547	Ma292	-	-	-	HKR	-	-	-	90?	-	-
1944-S251	2431413.99	1944 Nov 19 1147	V-2	-	19545	Ma291	-	-	-	HKR	-	-	-	90?	-	-
1944-S252	2431414.91	1944 Nov 20 0946	V-2	-	19533	Ma293	-	-	-	HKR	-	-	-	90?	-	-
1944-S253	2431415.09	1944 Nov 20 1413	V-2	-	19550	Ma295	-	-	-	HKR	-	-	-	90?	-	-
1944-S254	2431415.16	1944 Nov 20 1548	V-2	-	19552	Ma294	-	-	-	HKR	-	-	-	90?	-	-
1944-S359	2431415.50	1944 Nov 21	V-2	-	-	London 226	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S255	2431415.87	1944 Nov 21 0848	V-2	-	19551	Ma296	-	-	-	HKR	-	-	-	90?	-	-
1944-S256	2431415.92	1944 Nov 21 1000	V-2	-	19546	Ma297	-	-	-	HKR	-	-	-	90?	-	-
1944-S257	2431416.10	1944 Nov 21 1426	V-2	-	19829	Ma301	-	-	-	HKR	-	-	-	90?	-	-
1944-S360	2431416.50	1944 Nov 22	V-2	-	-	London 236	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S258	2431416.98	1944 Nov 22 1135	V-2	-	19843	Ma308	-	-	-	HKR	-	-	-	90?	-	-
1944-S259	2431417.17	1944 Nov 22 1559	V-2	-	19830	Ma300	-	-	-	HKR	-	-	-	90?	-	-
1944-A20	2431417.35	1944 Nov 22 2031	V-2	-	19832	Ma302	-	-	-	HKR	-	-	-	0?	-	-
1944-S260	2431419.10	1944 Nov 24 1417	V-2	-	19833	Ma303	-	-	-	HKR	-	-	-	90?	-	-
1944-S261	2431419.21	1944 Nov 24 1657	V-2	-	19844	Ma271	-	-	-	HKR	-	-	-	90?	-	-
1944-A21	2431419.33	1944 Nov 24 1956	V-2	-	19834	Ma304	-	-	-	HKR	-	-	-	20?	-	-
1944-S361	2431418.50	1944 Nov 24	V-2	-	-	London 250	-	-	-	UNKV2	-	-	-	90?	-	-
1944-A22	2431419.96	1944 Nov 25 1106	V-2	-	19835	Ma298	-	-	-	HKR	-	-	-	30?	-	-
1944-S362	2431419.97	1944 Nov 25 1111?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S262	2431421.07	1944 Nov 26 1339	V-2	-	19836	Ma305	-	-	-	HKR	-	-	-	90?	-	-
1944-S363	2431421.92	1944 Nov 27 1000?	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S364	2431422.33	1944 Nov 27 2000?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S263	2431421.95	1944 Nov 27 1050	V-2	-	19831	Ma276	-	-	-	HKR	-	-	-	90?	-	-
1944-A23	2431421.97	1944 Nov 27 1113	V-2	-	19840	Ma306	-	-	-	HKR	-	-	-	0?	-	-
1944-S264	2431422.87	1944 Nov 28 0859	V-2	-	19827	Ma299	-	-	-	HKR	-	-	-	90?	-	-
1944-S265	2431423.94	1944 Nov 29 1032	V-2	-	19841	Ma316	-	-	-	HKR	-	-	-	90?	-	-
1944-S266	2431424.28	1944 Nov 29 1840	V-2	-	19825	Ma277	-	-	-	HKR	-	-	-	90?	-	-
1944-S272	2431424.97	1944 Nov 30 1119	V-2	-	19846	Ma310	-	-	-	HKR	-	-	-	90?	-	-
1944-S273	2431424.99	1944 Nov 30 1143	V-2	-	19849	Ma312	-	-	-	HKR	-	-	-	90?	-	-
1944-S267	2431424.50	1944 Dec	V-2	-	-	Antwerp	-	-	-	V2HACH	-	-	-	90?	-	-
1944-S268	2431424.50	1944 Dec	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S269	2431424.50	1944 Dec	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S270	2431424.50	1944 Dec	V-2	-	-	?	-	-	-	V2HAAG	-	-	-	90?	-	-
1944-S271	2431424.50	1944 Dec	V-2	-	-	Antwerp	-	-	-	V2BURG	-	-	-	90?	-	-
1944-S274	2431425.98	1944 Dec 1 1134	V-2	-	19848	Ma311	-	-	-	HKR	-	-	-	90?	-	-
1944-A24	2431426.33	1944 Dec 1 1952	V-2	-	19850	Ma275	-	-	-	HKR	-	-	-	1?	-	-
1944-S275	2431430.00	1944 Dec 5 1206	V-2	-	19883	Ma346	-	-	-	HKR	-	-	-	90?	-	-
1944-S277	2431430.29	1944 Dec 5 1859	V-2	-	19905	Ma339	-	-	-	HKR	-	-	-	90?	-	-
1944-S276	2431430.18	1944 Dec 5 1616	V-2	-	19893	Ma340	-	-	-	HKR	-	-	-	90?	-	-
1944-S365	2431430.50	1944 Dec 6	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S366	2431430.50	1944 Dec 6	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S278	2431431.08	1944 Dec 6 1353	V-2	-	19913	Ma338	-	-	-	HKR	-	-	-	90?	-	-
1944-A25	2431431.33	1944 Dec 6 1956	V-2	-	19891	Ma341	-	-	-	HKR	-	-	-	0?	-	-
1944-S279	2431432.21	1944 Dec 7 1700	A-4	-	19874	Ma333	-	-	-	HVP	SK	-	-	104?	-	-
1944-S280	2431432.21	1944 Dec 7 1706	V-2	-	19901	Ma345	-	-	-	HKR	-	-	-	90?	-	-
1944-S281	2431433.02	1944 Dec 8 1224	V-2	-	19894	Ma342	-	-	-	HKR	-	-	-	90?	-	-
1944-S282	2431433.23	1944 Dec 8 1724	V-2	-	19888	Ma344	-	-	-	HKR	-	-	-	90?	-	-
1944-S367	2431433.50	1944 Dec 9	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S283	2431434.16	1944 Dec 9 1544	V-2	-	19900	Ma347	-	-	-	HKR	-	-	-	90?	-	-
1944-S284	2431434.22	1944 Dec 9 1710	A-4	-	19020	-	-	-	-	HVP	SK	-	-	106?	-	-
1944-S285	2431436.12	1944 Dec 11 1500	V-2	-	19856	Ma319	-	-	-	HKR	-	-	-	90?	-	-
1944-S286	2431436.23	1944 Dec 11 1731	V-2	-	19858	Ma321	-	-	-	HKR	-	-	-	90?	-	-
1944-S287	2431436.97	1944 Dec 12 1114	A-4	-	18783	Ma191	-	-	-	HVP	SK	-	-	81?	-	-
1944-A26	2431437.05	1944 Dec 12 1307	V-2	-	19855	Ma323	-	-	-	HKR	-	-	-	0?	-	-
1944-S288	2431437.38	1944 Dec 12 2104	V-2	-	19854	Ma318	-	-	-	HKR	-	-	-	90?	-	-
1944-S289	2431437.90	1944 Dec 13 0940	V-2	-	19859	Ma322	-	-	-	HKR	-	-	-	90?	-	-
1944-S290	2431437.99	1944 Dec 13 1145	V-2	-	19870	Ma320	-	-	-	HKR	-	-	-	90?	-	-
1944-A27	2431438.06	1944 Dec 13 1320	V-2	-	19857	Ma324	-	-	-	HKR	-	-	-	40?	-	-
1944-S368	2431438.50	1944 Dec 14	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S369	2431438.50	1944 Dec 14	V-2	-	-	Antwerp	-	-	-	UNKV2	-	-	-	90?	-	-
1944-A28	2431439.13	1944 Dec 14 1512	V-2	-	19865	Ma325	-	-	-	HKR	-	-	-	1?	-	-
1944-S291	2431440.01	1944 Dec 15 1218	V-2	-	19847	Ma309	-	-	-	HKR	-	-	-	90?	-	-
1944-S292	2431440.98	1944 Dec 16 1129	V-2	-	19837	Ma317	-	-	-	HKR	-	-	-	90?	-	-
1944-S293	2431441.01	1944 Dec 16 1211	V-2	-	19838	Ma314	-	-	-	HKR	-	-	-	90?	-	-
1944-S370	2431441.05	1944 Dec 16 1315?	V-2	-	-	Antwerp	-	-	-	V2ENS	-	-	-	90?	-	-
1944-S371	2431441.12	1944 Dec 16 1455?	V-2	-	-	Antwerp	-	-	-	V2ENS	-	-	-	90?	-	-
1944-S294	2431441.92	1944 Dec 17 0958	V-2	-	19851	Ma273	-	-	-	HKR	-	-	-	90?	-	-
1944-S372	2431442.50	1944 Dec 18	V-2	-	-	Antwerp	-	-	-	V2ZWOL	-	-	-	90?	-	-
1944-S295	2431444.01	1944 Dec 19 1217	V-2	-	19872	Ma327	-	-	-	HKR	-	-	-	90?	-	-
1944-A29	2431444.14	1944 Dec 19 1520	V-2	-	19828	Ma315	-	-	-	HKR	-	-	-	30?	-	-
1944-A30	2431444.87	1944 Dec 20 0847	V-2	-	19845	Ma272	-	-	-	HKR	-	-	-	1?	-	-
1944-S296	2431445.02	1944 Dec 20 1228	V-2	-	19852	Ma269	-	-	-	HKR	-	-	-	90?	-	-
1944-S297	2431445.23	1944 Dec 20 1729	V-2	-	19853	Ma274	-	-	-	HKR	-	-	-	90?	-	-
1944-S298	2431445.89	1944 Dec 21 0923	V-2	-	19186	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S299	2431445.95	1944 Dec 21 1043	V-2	-	19676	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S300	2431446.16	1944 Dec 21 1557	V-2	-	19778	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S373	2431447.50	1944 Dec 23?	V-2	-	-	Antwerp	-	-	-	V2REM	-	-	-	90?	-	-
1944-S301	2431447.91	1944 Dec 23 0946	V-2	-	19886	-	-	-	-	HKR	-	-	-	90?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1944-S302	2431448.04	1944 Dec 23 1255	V-2	-	19674	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S303	2431448.11	1944 Dec 23 1436	V-2	-	19776	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S304	2431449.94	1944 Dec 25 1028	V-2	-	19650	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S305	2431450.00	1944 Dec 25 1155	V-2	-	19681	-	-	-	-	HKR	-	-	-	90?	-	-
1944-S374	2431451.31	1944 Dec 26 1921?	V-2	-	-	London/Islington	-	-	-	UNKV2	-	-	-	90?	-	-
1944-A31	2431451.50	1944 Dec 27	A-4b	-	-	-	-	-	-	HVP	-	-	-	0?	-	-
1944-S306	2431451.86	1944 Dec 27 0843	V-2	-	20853	Ma421	-	-	-	HKR	-	-	-	90?	-	-
1944-S375	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S376	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S377	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S378	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S379	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S380	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S381	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S382	2431452.50	1944 Dec 28	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-S307	2431452.86	1944 Dec 28 0834	V-2	-	20844	Ma423	-	-	-	HKR	-	-	-	90?	-	-
1944-S308	2431452.93	1944 Dec 28 1018	V-2	-	20845	Ma422	-	-	-	HKR	-	-	-	90?	-	-
1944-A32	2431452.98	1944 Dec 28 1137	V-2	-	20848	Ma427	-	-	-	HKR	-	-	-	20?	-	-
1944-S309	2431455.19	1944 Dec 30 1627	V-2	-	20820	Ma414	-	-	-	HKR	-	-	-	90?	-	-
1944-S310	2431455.27	1944 Dec 30 1828	V-2	-	20816	Ma413	-	-	-	HKR	-	-	-	90?	-	-
1944-S311	2431456.03	1944 Dec 31 1244	V-2	-	20847	Ma425	-	-	-	HKR	-	-	-	90?	-	-
1944-S312	2431456.14	1944 Dec 31 1523	V-2	-	20825	Ma408	-	-	-	HKR	-	-	-	90?	-	-
1944-S383	2431456.40	1944 Dec 31 2135?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1944-A62	2431455.50	1944 Dec 31	V-2	-	-	London	-	-	-	UNKV2	-	-	-	0	-	-
1945-S01	2431455.50	1945 Jan	V-2	-	-	?	-	-	-	V2HAAG	-	-	-	90?	-	-
1945-S02	2431455.50	1945 Jan	V-2	-	-	?	-	-	-	V2HAAG	-	-	-	90?	-	-
1945-S03	2431455.50	1945 Jan	V-2	-	-	?	-	-	-	V2ZWOL	-	-	-	90?	-	-
1945-A01	2431457.12	1945 Jan 1 1450	V-2	-	20852	Ma426	-	-	-	HKR	-	-	-	20?	-	-
1945-S04	2431458.00	1945 Jan 2 1205	V-2	-	20815	Ma411	-	-	-	HKR	-	-	-	90?	-	-
1945-S05	2431458.15	1945 Jan 2 1535	V-2	-	20817	Ma415	-	-	-	HKR	-	-	-	90?	-	-
1945-S06	2431458.28	1945 Jan 2 1837	V-2	-	20818	Ma412	-	-	-	HKR	-	-	-	90?	-	-
1945-S38	2431458.78	1945 Jan 3 0645?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S07	2431459.01	1945 Jan 3 1219	V-2	-	20838	Ma418	-	-	-	HKR	-	-	-	90?	-	-
1945-S08	2431459.12	1945 Jan 3 1450	V-2	-	20841	Ma420	-	-	-	HKR	-	-	-	90?	-	-
1945-S09	2431459.21	1945 Jan 3 1705	V-2	-	20851	Ma424	-	-	-	HKR	-	-	-	90?	-	-
1945-S10	2431459.97	1945 Jan 4 1115	V-2	-	20823	Ma417	-	-	-	HKR	-	-	-	90?	-	-
1945-S39	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S40	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S41	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S42	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S43	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S44	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S45	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S46	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S47	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S48	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S49	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S50	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S51	2431459.50	1945 Jan 4	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-A02	2431459.99	1945 Jan 4 1143	V-2	-	20814	Ma410	-	-	-	HKR	-	-	-	30?	-	-
1945-S11	2431464.04	1945 Jan 8 1257	V-2	-	20843	Ma419	-	-	-	HKR	-	-	-	90?	-	-
1945-S12	2431464.15	1945 Jan 8 1535	V-2	-	20819	Ma416	-	-	-	HKR	-	-	-	90?	-	-
1945-A40	2431463.50	1945 Jan 8	A-4b	-	1	-	-	-	-	HVP	P7	-	-	1	-	-
1945-S13	2431466.01	1945 Jan 10 1219	A-4	-	20805	Ma400	-	-	-	HKR	-	-	-	90?	-	-
1945-S14	2431466.28	1945 Jan 10 1837	A-4	-	20808	Ma404	-	-	-	HKR	-	-	-	90?	-	-
1945-S15	2431466.31	1945 Jan 10 1922	A-4	-	20809	Ma405	-	-	-	HKR	-	-	-	90?	-	-
1945-S16	2431466.97	1945 Jan 11 1110	A-4	-	20810	Ma406	-	-	-	HKR	-	-	-	90?	-	-
1945-S17	2431467.00	1945 Jan 11 1155	A-4	-	20807	Ma402	-	-	-	HKR	-	-	-	90?	-	-
1945-S18	2431467.13	1945 Jan 11 1502	A-4	-	20811	Ma398	-	-	-	HKR	-	-	-	90?	-	-
1945-S19	2431467.13	1945 Jan 11 1512	A-4	-	20804	Ma401	-	-	-	HKR	-	-	-	90?	-	-
1945-S20	2431467.21	1945 Jan 11 1705	A-4	-	20806	Ma399	-	-	-	HKR	-	-	-	90?	-	-
1945-S52	2431468.50	1945 Jan 13	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S53	2431475.87	1945 Jan 20 0847?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S54	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S55	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S56	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S57	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S58	2431475.97	1945 Jan 20 1110?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S59	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S60	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S61	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S62	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S63	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S64	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S65	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S66	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S67	2431475.50	1945 Jan 20	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S68	2431477.50	1945 Jan 22	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-M01	2431479.50	1945 Jan 24	A-4b	-	2	A-9	-	-	-	HVP	P10	-	-	77	-	-
1945-S21	2431494.50	1945 Feb 8	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S22	2431496.87	1945 Feb 10 0853?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S29	2431497.50	1945 Feb 11	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S69	2431499.50	1945 Feb 13	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S23	2431501.15	1945 Feb 14 1540	V-2	-	4299	Last HVP	-	-	-	HVP	P7	-	-	90?	-	-
1945-S70	2431501.33	1945 Feb 14 1953?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S30	2431508.50	1945 Feb 22	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1945-S31	2431512.50	1945 Feb 26	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S71	2431513.50	1945 Feb 27	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S72	2431517.50	1945 Mar 3?	V-2	-	-	London	-	-	-	V2HAAG	LP3	-	-	90?	-	-
1945-S32	2431521.55	1945 Mar 7 0115?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S33	2431522.96	1945 Mar 8 1057?	V-2	-	-	London/Smithfield	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S34	2431523.50	1945 Mar 9	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S84	2431525.50	1945 Mar 11	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S25	2431530.50	1945 Mar 16	V-2	-	-	Antwerp?	-	-	-	V2HACH	-	-	-	90?	-	-
1945-S85	2431530.52	1945 Mar 16 0029?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S86	2431531.66	1945 Mar 17 0355?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S87	2431532.35	1945 Mar 17 2021?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S24	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S73	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S74	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S75	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S76	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S77	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S78	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S79	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S80	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S81	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S82	2431531.50	1945 Mar 17	V-2	-	-	Remagen	-	-	-	V2HELL	-	-	-	90?	-	-
1945-S88	2431532.50	1945 Mar 18	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S83	2431535.50	1945 Mar 21	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S89	2431535.90	1945 Mar 21 0934?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-A39	2431537.79	1945 Mar 23 0700	V-2	-	-	London?	-	-	-	V2HAAG	-	-	-	1?	-	-
1945-S35	2431540.37	1945 Mar 25 2055?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S36	2431541.50	1945 Mar 27	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S37	2431541.50	1945 Mar 27	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S90	2431541.50	1945 Mar 27	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S91	2431541.50	1945 Mar 27	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S92	2431541.72	1945 Mar 27 0515?	V-2	-	-	London	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S93	2431542.12	1945 Mar 27 1449?	V-2	-	-	London/Orpington	-	-	-	UNKV2	-	-	-	90?	-	-
1945-S26	2431542.36	1945 Mar 27 2043?	V-2	-	Last launch	Antwerp/Mortsel	-	-	-	V2HAAG	-	-	-	90?	-	-
1945-S27	2431731.07	1945 Oct 2 1341:12	V-2	-	-	Backfire 1	-	-	-	CUX	-	-	-	69	-	-
1945-A08	2431733.05	1945 Oct 4 1313:33	V-2	-	-	Backfire 2	-	-	-	CUX	-	-	-	17	-	-
1945-S28	2431744.09	1945 Oct 15 1406:26	V-2	-	-	Backfire 3	-	-	-	CUX	-	-	-	64	-	-
1946-A02	2431927.41	1946 Apr 16 2147	V-2	US	2	-	-	-	-	WS	LC33	-	-	8	-	-
1946-S01	2431951.39	1946 May 10 2115	V-2	US	3	-	-	-	-	WS	LC33	-	-	112	-	-
1946-S02	2431970.38	1946 May 29 2112	V-2	US	4	-	-	-	-	WS	LC33	-	-	112	-	-
1946-S03	2431985.49	1946 Jun 13 2340	V-2	US	5	UVS/Ionos prop.	-	-	-	WS	LC33	-	-	117	-	-
1946-S04	2432000.31	1946 Jun 28 1925	V-2	US	6	UVS/Ionos prop.	-	-	-	WS	LC33	-	-	108	-	-
1946-S05	2432011.31	1946 Jul 9 1925	V-2	US	7	-	-	-	-	WS	LC33	-	-	134	-	-
1946-A09	2432021.30	1946 Jul 19 1911	V-2	US	8	-	-	-	-	WS	LC33	-	-	5	-	-
1946-S06	2432032.32	1946 Jul 30 1936	V-2	US	9	-	-	-	-	WS	LC33	-	-	167	-	-
1946-A10	2432048.25	1946 Aug 15 1800	V-2	US	10	-	-	-	-	WS	LC33	-	-	3	-	-
1946-A11	2432055.22	1946 Aug 22 1715	V-2	US	11	UM Aeron	-	-	-	WS	LC33	-	-	0	-	-
1946-S07	2432104.25	1946 Oct 10 1802	V-2	US	12	-	-	-	-	WS	LC33	-	-	164	-	-
1946-S08	2432118.30	1946 Oct 24 1915	V-2	US	13	-	-	-	-	WS	LC33	-	-	105	-	-
1946-A26	2432132.35	1946 Nov 7 2031	V-2	US	14	-	-	-	-	WS	LC33	-	-	0	-	-
1946-S10	2432146.20	1946 Nov 21 1655	V-2	US	15	UM Aeron	-	-	-	WS	LC33	-	-	100	-	-
1946-S11	2432160.34	1946 Dec 5 2008	V-2	US	16	-	-	-	-	WS	LC33	-	-	167	-	-
1946-S12	2432172.72	1946 Dec 18 0512:49	V-2	US	17	CR/Grenades	-	-	-	WS	LC33	-	-	187	-	-
1947-S01	2432196.38	1947 Jan 10 2113	V-2	US	18	-	-	-	-	WS	LC33	-	-	116	-	-
1947-M01	2432209.52	1947 Jan 24 0022	V-2	US	19	-	-	-	-	WS	LC33	-	-	50	-	-
1947-S02	2432237.26	1947 Feb 20 1816	V-2	US	20	Blossom I/UM Aeron	-	-	-	WS	LC33	-	-	109	-	-
1947-S03	2432252.27	1947 Mar 7 1823	V-2	US	21	-	-	-	-	WS	LC33	-	-	161	-	-
1947-S04	2432277.34	1947 Apr 1 2010	V-2	US	22	-	-	-	-	WS	LC33	-	-	129	-	-
1947-S05	2432284.51	1947 Apr 9 0010	V-2	US	23	-	-	-	-	WS	LC33	-	-	103	-	-
1947-S06	2432293.47	1947 Apr 17 2322	V-2	US	24	Grenades	-	-	-	WS	LC33	-	-	140	-	-
1947-S07	2432321.46	1947 May 15 2308	V-2	US	26	-	-	-	-	WS	LC33	-	-	122	-	-
1947-M04	2432335.60	1947 May 30 0230	Hermes II	-	B-1 No. 0	Hermes II Dummy Ram	-	-	-	WS	LC33	-	-	50	-	-
1947-A13	2432377.30	1947 Jul 10 1918	V-2	US	29	-	-	-	-	WS	LC33	-	-	16	-	-
1947-S08	2432396.04	1947 Jul 29 1255	V-2	US	30	-	-	-	-	WS	LC33	-	-	159	-	-
1947-A16	2432435.16	1947 Sep 6 1553	V-2	US	-	Operation Sandy	-	-	CV-41	SANDY	-	-	-	1	-	-
1947-S09	2432468.30	1947 Oct 9 1915	V-2	US	27	-	-	-	-	WS	LC33	-	-	156	-	-
1947-S10	2432476.78	1947 Oct 18 0647	A-4	-	010T	-	-	-	-	GTsP-4	-	-	-	86	207	-
1947-S11	2432478.80	1947 Oct 20 0714	A-4	-	04T	-	-	-	-	GTsP-4	-	-	-	85	231	-
1947-A24	2432482.05	1947 Oct 23 1305	A-4	-	08T	-	-	-	-	GTsP-4	-	-	-	14	29	-
1947-S12	2432487.16	1947 Oct 28 1547	A-4	-	03T	-	-	-	-	GTsP-4	-	-	-	87	274	-
1947-A28	2432490.15	1947 Oct 31 1541	A-4	-	06T	-	-	-	-	GTsP-4	-	-	-	0	2	-
1947-S13	2432492.09	1947 Nov 2 1414	A-4	-	14N	-	-	-	-	GTsP-4	-	-	-	88	260	-
1947-A29	2432492.96	1947 Nov 3 1105	A-4	-	30N	-	-	-	-	GTsP-4	-	-	-	0	2	-
1947-S14	2432494.08	1947 Nov 4 1402	A-4	-	01T	-	-	-	-	GTsP-4	-	-	-	89	269	-
1947-A31	2432499.86	1947 Nov 10 0839	A-4	-	21N	-	-	-	-	GTsP-4	-	-	-	11	24	-
1947-S15	2432502.81	1947 Nov 13 0730	A-4	-	22N	-	-	-	-	GTsP-4	-	-	-	89	270	-
1947-S16	2432503.04	1947 Nov 13 1300	A-4	-	19N	-	-	-	-	GTsP-4	-	-	-	89	262	-
1947-A33	2432510.49	1947 Nov 20 2347	V-2	US	Special	G.E. Special	-	-	-	WS	LC33	-	-	29	-	-
1947-S17	2432528.40	1947 Dec 8 2142	V-2	US	28	Blossom II/UM Aeron	-	-	-	WS	LC33	-	-	105	-	-
1948-S01	2432573.34	1948 Jan 22 2012	V-2	US	34	-	-	-	-	WS	LC33	-	-	159	-	-
1948-S02	2432588.22	1948 Feb 6 1717	V-2	US	36	-	-	-	-	WS	LC33	-	-	113	-	-
1948-A02	2432630.47	1948 Mar 19 2310	V-2	US	39	Blossom IIA	-	-	-	WS	LC33	-	-	5	-	-
1948-S04	2432644.07	1948 Apr 2 1347	V-2	US	25	UM-1	-	-	-	WS	LC33	-	-	144	-	-
1948-M01	2432661.33	1948 Apr 19 1954	V-2	US	38	-	-	-	-	WS	LC33	-	-	56	-	-
1948-S06	2432685.07	1948 May 13 1343	Bumper-WAC	-	Bumper 1	-	-	-	-	WS	LC33	-	-	127	-	-
1948-S07	2432699.09	1948 May 27 1415	V-2	US	35	-	-	-	-	WS	LC33	-	-	140	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1948-M02	2432713.93	1948 Jun 11 1022	V-2	US	37	Blossom III (Albert)	-	-	-	WS	LC33	-	-	63	-	-
1948-S09	2432759.25	1948 Jul 26 1803	V-2	US	40	-	-	-	-	WS	LC33	-	-	97	-	-
1948-S10	2432769.00	1948 Aug 5 1207	V-2	US	43	UV Spec/Solar X	-	-	-	WS	LC33	-	-	166	-	-
1948-A23	2432783.11	1948 Aug 19 1445	Bumper-WAC	-	Bumper 2	-	-	-	-	WS	LC33	-	-	13	-	-
1948-S12	2432797.54	1948 Sep 3 0100	V-2	US	33	UM-2 Grenades	-	-	-	WS	LC33	-	-	151	-	-
1948-A30	2432811.50	1948 Sep 17	R-1	-	I-4	-	-	-	-	GTsP-4	-	-	-	1	12	-
1948-S13	2432825.15	1948 Sep 30 1530:09	Bumper-WAC	-	Bumper 3	-	-	-	-	WS	LC33	-	-	150	-	-
1948-S14	2432834.50	1948 Oct 10	R-1	-	I-1	-	-	-	-	GTsP-4	-	-	-	100?	288	-
1948-S15	2432837.50	1948 Oct 13	R-1	-	I-9	-	-	-	-	GTsP-4	-	-	-	100?	298	-
1948-S16	2432845.50	1948 Oct 21	R-1	-	I-6	-	-	-	-	GTsP-4	-	-	-	100?	257	-
1948-S17	2432847.50	1948 Oct 23	R-1	-	I-10	-	-	-	-	GTsP-4	-	-	-	100?	255	-
1948-S18	2432856.50	1948 Nov 1	R-1	-	I-3	-	-	-	-	GTsP-4	-	-	-	100?	256	-
1948-A41	2432857.10	1948 Nov 1 1424:38	Bumper-WAC	-	Bumper 4	-	-	-	-	WS	LC33	-	-	8	-	-
1948-S20	2432858.50	1948 Nov 3	R-1	-	I-12	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1948-S21	2432859.50	1948 Nov 4	R-1	-	I-2	-	-	-	-	GTsP-4	-	-	-	100?	208	-
1948-S22	2432860.50	1948 Nov 5	R-1	-	I-11	-	-	-	-	GTsP-4	-	-	-	100?	253	-
1948-S23	2432874.44	1948 Nov 18 2235	V-2	US	44	Hermes B ramjet	-	-	-	WS	LC33	-	-	145	-	-
1948-S24	2432895.17	1948 Dec 9 1608	V-2	US	42	-	-	-	-	WS	LC33	-	-	108	-	-
1949-A02	2432930.35	1949 Jan 13 2026	Hermes II	-	B-1 No. 1	Hermes II RTV-G-3	-	-	-	WS	LC33	-	-	1	-	-
1949-M01	2432945.22	1949 Jan 28 1720	V-2	US	45	Blossom	-	-	-	WS	LC33	-	-	60	-	-
1949-S02	2432965.21	1949 Feb 17 1700	V-2	US	48	-	-	-	-	WS	LC33	-	-	100	-	-
1949-S03	2432972.43	1949 Feb 24 2222:44	Bumper-WAC	-	Bumper 5	-	-	-	-	WS	LC33	-	-	393	-	-
1949-S05	2432997.78	1949 Mar 22 0643	V-2	US	41	Blossom IVA	-	-	-	WS	LC33	-	-	129	-	-
1949-S07	2433018.42	1949 Apr 11 2205	V-2	US	50	UM-3	-	-	-	WS	LC33	-	-	85	-	-
1949-M02	2433028.51	1949 Apr 22 0017:16	Bumper-WAC	-	Bumper 6	-	-	-	-	WS	LC33	-	-	50	-	-
1949-A14	2433042.14	1949 May 5 1515	V-2	US	46	Hermes B	-	-	-	WS	LC33	-	-	8	-	-
1949-S09	2433043.59	1949 May 7 0212	R-1A	-	1	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1949-S10	2433047.12	1949 May 10 1457	R-1A	-	2	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1949-S11	2433051.58	1949 May 15 0148	R-1A	-	3	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1949-S12	2433053.37	1949 May 16 2055	R-1A	-	4	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1949-S13	2433060.53	1949 May 24 0040	R-1A	-	5	FIAR-1	-	-	-	GTsP-4	-	-	-	100?	-	-
1949-S14	2433064.53	1949 May 28 0050	R-1A	-	6	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1949-S15	2433082.44	1949 Jun 14 2235	V-2	US	47	Blossom IVB (Alb 2)	-	-	-	WS	LC33	-	-	134	-	-
1949-S19	2433169.50	1949 Sep 10	R-1	-	II-1	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1949-S20	2433170.50	1949 Sep 11	R-1	-	II-2	-	-	-	-	GTsP-4	-	-	-	100?	278	-
1949-S21	2433172.50	1949 Sep 13	R-1	-	II-11	-	-	-	-	GTsP-4	-	-	-	100?	270	-
1949-S22	2433173.50	1949 Sep 14	R-1	-	II-4	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1949-A24	2433176.47	1949 Sep 16 2319	V-2	-	32	Blossom IVC (Alb 3)	-	-	-	WS	LC33	-	-	5	-	-
1949-S23	2433176.50	1949 Sep 17	R-1	-	II-8	-	-	-	-	GTsP-4	-	-	-	100?	256	-
1949-S24	2433178.50	1949 Sep 19	R-1	-	II-5	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1949-S25	2433179.50	1949 Sep 20	R-1	-	II-9	-	-	-	-	GTsP-4	-	-	-	0	0	-
1949-S26	2433182.50	1949 Sep 23	R-1	-	II-15	-	-	-	-	GTsP-4	-	-	-	0?	0	-
1949-S27	2433184.97	1949 Sep 25 1116	R-2e	-	1	2RE ZI	-	-	-	GTsP-4	-	-	-	100?	542	-
1949-S28	2433187.50	1949 Sep 28	R-1	-	II-10	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1949-M07	2433189.21	1949 Sep 29 1658	V-2	US	49	NRL Ionos 1	-	-	-	WS	LC33	-	-	51	-	-
1949-S29	2433189.99	1949 Sep 30 1149	R-2e	-	2	2RE ZI	-	-	-	GTsP-4	-	-	-	100?	562	-
1949-S30	2433191.96	1949 Oct 2 1100	R-2e	-	3	2RE ZI	-	-	-	GTsP-4	-	-	-	100?	424	-
1949-S31	2433192.50	1949 Oct 3	R-1	-	II-14	-	-	-	-	GTsP-4	-	-	-	100?	257	-
1949-A26	2433195.50	1949 Oct 6	Hermes II	-	B-1 No. 2	Hermes II RTV-G-3	-	-	-	WS	LC33	-	-	4	-	-
1949-S32	2433197.50	1949 Oct 8	R-1	-	II-16	-	-	-	-	GTsP-4	-	-	-	100?	538	-
1949-S33	2433197.75	1949 Oct 8 0605	R-2e	-	4	2RE ZI	-	-	-	GTsP-4	-	-	-	100?	271	-
1949-S34	2433199.50	1949 Oct 10	R-1	-	II-12	-	-	-	-	GTsP-4	-	-	-	100?	269	-
1949-S35	2433201.03	1949 Oct 11 1245	R-2e	-	5	2RE ZI	-	-	-	GTsP-4	-	-	-	10?	9	-
1949-S36	2433201.50	1949 Oct 12	R-1	-	II-7	-	-	-	-	GTsP-4	-	-	-	100?	269	-
1949-S37	2433202.50	1949 Oct 13	R-1	-	II-13	-	-	-	-	GTsP-4	-	-	-	100?	273	-
1949-S38	2433202.50	1949 Oct 13	R-1	-	II-17	-	-	-	-	GTsP-4	-	-	-	100?	270	-
1949-S39	2433204.50	1949 Oct 15	R-1	-	II-19	-	-	-	-	GTsP-4	-	-	-	100?	274	-
1949-S40	2433207.50	1949 Oct 18	R-1	-	II-23	-	-	-	-	GTsP-4	-	-	-	100?	158	-
1949-S41	2433208.50	1949 Oct 19	R-1	-	II-22	-	-	-	-	GTsP-4	-	-	-	100?	234	-
1949-S42	2433211.50	1949 Oct 22	R-1	-	II-20	-	-	-	-	GTsP-4	-	-	-	100?	267	-
1949-S43	2433212.50	1949 Oct 23	R-1	-	II-3	-	-	-	-	GTsP-4	-	-	-	100?	267	-
1949-S44	2433239.17	1949 Nov 18 1603	V-2	US	56	UM Sampling,Grenades	-	-	-	WS	LC33	-	-	124	-	-
1949-S46	2433259.30	1949 Dec 8 1915	V-2	US	31	Blossom IVD (Alb 4)	-	-	-	WS	LC33	-	-	127	-	-
1950-S02	2433330.25	1950 Feb 17 1801	V-2	US	53	-	-	-	-	WS	LC33	-	-	148	-	-
1950-M08	2433487.10	1950 Jul 24 1429	Bumper-WAC	-	Bumper 8	-	-	-	-	CC	LC3	-	-	16?	-	-
1950-M09	2433491.99	1950 Jul 29 1144	Bumper-WAC	-	Bumper 7	-	-	-	-	CC	LC3	-	-	20?	-	-
1950-S08	2433525.21	1950 Aug 31 1709	V-2	US	51	Blossom IVG (Mouse)	-	-	-	WS	LC33	-	-	137	-	-
1950-S13	2433575.50	1950 Oct 21	R-2	-	1	8Zh38 EDI-1-1	-	-	-	GTsP-4	-	-	-	150?	345	-
1950-S09	2433580.50	1950 Oct 26	R-2	-	2	8Zh38 EDI-1-2	-	-	-	GTsP-4	-	-	-	150?	556	-
1950-A46	2433581.46	1950 Oct 26 2302	V-2	US	61	-	-	-	-	WS	LC33	-	-	8	-	-
1950-S10	2433581.50	1950 Oct 27	R-2	-	3	8Zh38 EDI-1-3	-	-	-	GTsP-4	-	-	-	150?	553	-
1950-S14	2433584.50	1950 Oct 30	R-2	-	4	8Zh38 EDI-1-4	-	-	-	GTsP-4	-	-	-	150?	553	-
1950-S15	2433593.50	1950 Nov 8	R-2	-	5	8Zh38 EDI-1-5	-	-	-	GTsP-4	-	-	-	150?	157	-
1950-S20	2433594.50	1950 Nov 9	Hermes II	-	B-1 No. 2A	Hermes II RTV-G-3	-	-	-	WS	LC33	-	-	150?	-	-
1950-S16	2433599.50	1950 Nov 14	R-2	-	6	8Zh38 EDI-1-6	-	-	-	GTsP-4	-	-	-	150?	544	-
1950-S17	2433603.50	1950 Nov 18	R-2	-	7	8Zh38 EDI-1-7	-	-	-	GTsP-4	-	-	-	150?	352	-
1950-S18	2433611.50	1950 Nov 26	R-2	-	8	8Zh38 EDI-1-8	-	-	-	GTsP-4	-	-	-	1?	0?	-
1950-S22	2433626.50	1950 Dec 11	R-2	-	9	8Zh38 EDI-1-9	-	-	-	GTsP-4	-	-	-	150?	557	-
1950-S23	2433627.50	1950 Dec 12	R-2	-	10	8Zh38 EDI-1-10	-	-	-	GTsP-4	-	-	-	150?	554	-
1950-S24	2433631.50	1950 Dec 16	R-2	-	11	8Zh38 EDI-1-11	-	-	-	GTsP-4	-	-	-	150?	555	-
1950-S28	2433635.50	1950 Dec 20	R-2	-	12	8Zh38 EDI-1-12	-	-	-	GTsP-4	-	-	-	1?	0?	-
1951-A01	2433665.34	1951 Jan 18 2014	V-2	US	54	-	-	-	-	WS	LC33	-	-	2	-	-
1951-S03	2433675.50	1951 Jan 29	R-1	-	IIIA-1	KI	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-S04	2433676.50	1951 Jan 30	R-1	-	IIIA-5	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-S05	2433677.50	1951 Jan 31	R-1	-	IIIA-2	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-S06	2433678.50	1951 Feb 1	R-1	-	IIIA-6	-	-	-	-	GTsP-4	-	-	-	100?	267	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1951-S07	2433679.50	1951 Feb 2	R-1	-	IIIA-3	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-A06	2433714.64	1951 Mar 9 0316	V-2	US	57	Blossom IVE	-	-	-	WS	LC33	-	-	3	-	-
1951-S10	2433810.50	1951 Jun 13	R-1	-	IIIB-11	-	-	-	-	GTsP-4	-	-	-	100?	275	-
1951-A29	2433812.08	1951 Jun 14 1348	V-2	US	55	-	-	-	-	WS	LC33	-	-	0	-	-
1951-S11	2433811.50	1951 Jun 14	R-1	-	IIIB-10	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-S12	2433815.50	1951 Jun 18	R-1	-	IIIB-1	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1951-S13	2433816.50	1951 Jun 19	R-1	-	IIIB-2	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1951-S14	2433817.50	1951 Jun 20	R-1	-	IIIB-3	-	-	-	-	GTsP-4	-	-	-	100?	267	-
1951-S15	2433819.50	1951 Jun 22	R-1	-	IIIB-7	Short range test	-	-	-	GTsP-4	-	-	-	100?	83	-
1951-S16	2433820.50	1951 Jun 23	R-1	-	IIIB-9	Short range test	-	-	-	GTsP-4	-	-	-	100?	79	-
1951-S17	2433821.50	1951 Jun 24	R-1	-	IIIB-8	Short range test	-	-	-	GTsP-4	-	-	-	100?	84	-
1951-S18	2433822.50	1951 Jun 25	R-1	-	IIIB-4	-	-	-	-	GTsP-4	-	-	-	100?	147	-
1951-S19	2433823.50	1951 Jun 26	R-1	-	IIIB-5	-	-	-	-	GTsP-4	-	-	-	100?	146	-
1951-S20	2433824.50	1951 Jun 27	R-1	-	IIIB-14	-	-	-	-	GTsP-4	-	-	-	100?	273	-
1951-A36	2433826.40	1951 Jun 28 2143	V-2	US	52	Blossom IVF	-	-	-	WS	LC33	-	-	6	-	-
1951-S32	2433829.50	1951 Jul 2	R-2	-	II-1	8Zh38 EDI-2-1	-	-	-	GTsP-4	-	-	-	150?	557	-
1951-S21	2433831.50	1951 Jul 4	R-2	-	II-2	8Zh38 EDI-2-2	-	-	-	GTsP-4	-	-	-	150?	555	-
1951-S22	2433834.50	1951 Jul 7	R-2	-	II-3	8Zh38 EDI-2-3	-	-	-	GTsP-4	-	-	-	150?	557	-
1951-S23	2433836.50	1951 Jul 9	R-2	-	II-4	8Zh38 EDI-2-4	-	-	-	GTsP-4	-	-	-	150?	546	-
1951-S24	2433837.50	1951 Jul 10	R-2	-	II-5	8Zh38 EDI-2-5	-	-	-	GTsP-4	-	-	-	150?	556	-
1951-S25	2433838.50	1951 Jul 11	R-2	-	II-6	8Zh38 EDI-2-6	-	-	-	GTsP-4	-	-	-	150?	561	-
1951-S26	2433839.50	1951 Jul 12	R-2	-	II-7	8Zh38 EDI-2-7	-	-	-	GTsP-4	-	-	-	0?	0	-
1951-S27	2433841.50	1951 Jul 14	R-2	-	II-8	8Zh38 EDI-2-8	-	-	-	GTsP-4	-	-	-	150?	549	-
1951-S28	2433843.50	1951 Jul 16	R-2	-	II-9	8Zh38 EDI-2-9	-	-	-	GTsP-4	-	-	-	150?	544	-
1951-S29	2433847.50	1951 Jul 20	R-2	-	II-10	8Zh38 EDI-2-10	-	-	-	GTsP-4	-	-	-	150?	551	-
1951-S33	2433849.50	1951 Jul 22	R-1V	-	1	1-RB	-	-	-	GTsP-4	-	-	-	89	-	-
1951-S30	2433850.50	1951 Jul 23	R-2	-	II-11	8Zh38 EDI-2-11	-	-	-	GTsP-4	-	-	-	150?	566	-
1951-S31	2433852.50	1951 Jul 25	R-2	-	II-12	8Zh38 EDI-2-12	-	-	-	GTsP-4	-	-	-	150?	552	-
1951-S34	2433854.50	1951 Jul 27	R-2	-	II-13	8Zh38 EDI-2-13	-	-	-	GTsP-4	-	-	-	150?	556	-
1951-S35	2433856.50	1951 Jul 29	R-1B	-	1	-	-	-	-	GTsP-4	-	-	-	101	-	-
1951-S38	2433873.50	1951 Aug 15	R-1B	-	2	-	-	-	-	GTsP-4	-	-	-	101	-	-
1951-S39	2433877.50	1951 Aug 19	R-1V	-	2	-	-	-	-	GTsP-4	-	-	-	89	-	-
1951-S41	2433886.50	1951 Aug 28	R-1B	-	3	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1951-S42	2433892.50	1951 Sep 3	R-1B	-	4	-	-	-	-	GTsP-4	-	-	-	101	-	-
1951-S40	2433881.29	1951 Aug 22 1900	V-2	US	TF1	-	-	-	-	WS	LC33	-	-	213	-	-
1951-S44	2433949.38	1951 Oct 29 2104	V-2	US	60	Probe	-	-	-	WS	LC33	-	-	137	-	-
1952-S09	2434153.17	1952 May 20 1606	V-2	US	59/TF2	-	-	-	-	WS	LC33	-	-	124	-	-
1952-S19	2434232.50	1952 Aug 8	R-2	-	KT-1	8Zh38 KI-1	-	-	-	GTsP-4	-	-	-	150?	552	-
1952-S12	2434233.50	1952 Aug 9	R-2	-	KT-2	8Zh38 KI-2	-	-	-	GTsP-4	-	-	-	150?	544	-
1952-S13	2434236.50	1952 Aug 12	R-2	-	KT-3	8Zh38 KI-3	-	-	-	GTsP-4	-	-	-	150?	550	-
1952-S14	2434238.50	1952 Aug 14	R-2	-	KT-4	8Zh38 KI-4	-	-	-	GTsP-4	-	-	-	150?	499	-
1952-S20	2434244.50	1952 Aug 20	R-1 8A11	-	No 220	8A11	-	-	-	GTsP-4	-	-	-	100?	269	-
1952-S21	2434245.50	1952 Aug 21	R-1 8A11	-	No 105	8A11	-	-	-	GTsP-4	-	-	-	100?	265	-
1952-M04	2434246.81	1952 Aug 22 0733	V-2	US	TF3	-	-	-	-	WS	LC33	-	-	79	-	-
1952-S15	2434249.50	1952 Aug 25	R-2	-	KT-5	8Zh38 KI-5	-	-	-	GTsP-4	-	-	-	150?	554	-
1952-S22	2434249.50	1952 Aug 25	R-1 8A11	-	No 320	8A11	-	-	-	GTsP-4	-	-	-	100?	269	-
1952-S16	2434250.50	1952 Aug 26	R-2	-	KT-6	8Zh38 KI-6	-	-	-	GTsP-4	-	-	-	150?	263	-
1952-S17	2434251.50	1952 Aug 27	R-2	-	KT-7	8Zh38 KI-7	-	-	-	GTsP-4	-	-	-	150?	267	-
1952-S18	2434252.50	1952 Aug 28	R-2	-	KT-8	8Zh38 KI-8	-	-	-	GTsP-4	-	-	-	150?	276	-
1952-S24	2434257.50	1952 Sep 2	R-2	-	KT-9	8Zh38 KI-9	-	-	-	GTsP-4	-	-	-	150?	368	-
1952-S25	2434270.50	1952 Sep 15	R-2	-	KT-10	8Zh38 KI-10	-	-	-	GTsP-4	-	-	-	150?	561	-
1952-S26	2434271.50	1952 Sep 16	R-2	-	KT-11	8Zh38 KI-11	-	-	-	GTsP-4	-	-	-	150?	554	-
1952-S27	2434271.50	1952 Sep 16	R-2	-	KT-12	8Zh38 KI-12	-	-	-	GTsP-4	-	-	-	150?	550	-
1952-S28	2434272.50	1952 Sep 17	R-2	-	KT-13	8Zh38 KI-13	-	-	-	GTsP-4	-	-	-	150?	549	-
1952-S30	2434273.50	1952 Sep 18	R-2	-	KT-14	8Zh38 KI-14	-	-	-	GTsP-4	-	-	-	150?	552	-
1952-A161	2434275.16	1952 Sep 19 1549	V-2	US	TF5	-	-	-	-	WS	LC33	-	-	7	-	-
1952-S42	2434300.50	1952 Oct 15	R-2R	-	RUD 1	-	-	-	-	GTsP-4	-	-	-	150?	578	-
1952-S43	2434303.50	1952 Oct 18	R-2R	-	RUD 2	-	-	-	-	GTsP-4	-	-	-	150?	553	-
1952-S44	2434304.50	1952 Oct 19	R-2R	-	RUD 3	-	-	-	-	GTsP-4	-	-	-	150?	453	-
1952-S45	2434308.50	1952 Oct 23	R-2R	-	RUD 4	-	-	-	-	GTsP-4	-	-	-	150?	531	-
1952-S46	2434312.50	1952 Oct 27	R-2R	-	RUD 5	-	-	-	-	GTsP-4	-	-	-	150?	552	-
1952-S35	2434314.50	1952 Oct 29	R-1 8A11	-	No 420	-	-	-	-	GTsP-4	-	-	-	100?	269	-
1952-S36	2434315.50	1952 Oct 30	R-1 8A11	-	No 501	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1952-S37	2434315.50	1952 Oct 30	R-1 8A11	-	No 520	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1952-S38	2434337.50	1952 Nov 21	R-1 8A11	-	No 620	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1953-S05	2434437.50	1953 Mar 1	R-1 8A11	-	No 1020	-	-	-	-	GTsP-4	-	-	-	100?	271	-
1953-S06	2434441.50	1953 Mar 5	R-1 8A11	-	No 319	-	-	-	-	GTsP-4	-	-	-	100?	267	-
1953-S07	2434455.50	1953 Mar 19	R-1 8A11	-	No 820	-	-	-	-	GTsP-4	-	-	-	100?	263	-
1953-S17	2434508.50	1953 May 11	R-1 8A11	-	No 220	-	-	-	-	GTsP-4	-	-	-	100?	269	-
1953-S24	2434564.50	1953 Jul 6	R-1 8A11	-	No 420	-	-	-	-	GTsP-4	-	-	-	100?	268	-
1953-S41	2434618.50	1953 Aug 29	R-2	-	530-80-118	8Zh38 SP-1	NII-88 Production	-	-	GTsP-4	-	-	-	100?	669	-
1953-S42	2434666.50	1953 Oct 16	R-1 8A11	-	No 820	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S43	2434667.50	1953 Oct 17	R-1 8A11	-	No 520	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S44	2434669.50	1953 Oct 19	R-1 8A11	-	No 320	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S45	2434670.50	1953 Oct 20	R-1 8A11	-	No 620	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S70	2434674.50	1953 Oct 24	R-2	-	530-90-220	NII-88 Production	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S46	2434676.50	1953 Oct 26	R-1 8A11	-	No 720	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S47	2434677.50	1953 Oct 27	R-1 8A11	-	No 1020	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S48	2434678.50	1953 Oct 28	R-1 8A11	-	No 920	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S49	2434678.50	1953 Oct 28	R-1 8A11	-	No 1220	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S61	2434693.50	1953 Nov 12	R-1 8A11	-	No 1120	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S63	2434696.50	1953 Nov 15	R-1 8A11	-	No 1320	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S65	2434705.50	1953 Nov 24	R-1 8A11	-	No 1520	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S36	2434720.50	1953 Dec 9	R-2	-	530-50-101	NII-88 Production	-	-	-	GTsP-4	-	-	-	100?	-	-
1953-S37	2434732.50	1953 Dec 21	R-2	-	531-10-320	NII-88 Production	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S15	2434801.50	1954 Feb 28	R-2	-	531-20-420	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1954-S16	2434811.50	1954 Mar 10	R-2	-	531-20-520	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S04	2434812.50	1954 Mar 11	R-1 8A11	-	No 1820	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S05	2434817.50	1954 Mar 16	R-1 8A11	-	No 1916	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S06	2434817.50	1954 Mar 16	R-1 8A11	-	No 1920	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S07	2434821.50	1954 Mar 20	R-1 8A11	-	No 1918	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S10	2434855.50	1954 Apr 23	R-1 8A11	-	No 1720	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S11	2434856.50	1954 Apr 24	R-1 8A11	-	No 1910	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S12	2434858.50	1954 Apr 26	R-1 8A11	-	No 1912	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S13	2434861.50	1954 Apr 29	R-1 8A11	-	No 2120	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S24	2434865.50	1954 May 3	R-1 8A11	-	No 1620	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S26	2434866.50	1954 May 4	R-1 8A11	-	No 1420	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S25	2434866.50	1954 May 4	R-1 8A11	-	No 2020	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S27	2434869.50	1954 May 7	R-1 8A11	-	No 220	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S21	2434874.50	1954 May 12	R-2	-	Prod. missile	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S22	2434876.50	1954 May 14	R-2	-	Prod. missile	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S23	2434877.50	1954 May 15	R-2	-	Prod. missile	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S20	2434879.50	1954 May 17	R-2	-	Prod. missile	NII-88 Production	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S31	2434883.50	1954 May 21	R-1 8A11	-	No 120	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S33	2434889.10	1954 May 26 1424	A-1	-	Geophysical rocket	[Same as R-2?]	-	-	-	GTsP-4	-	-	-	106	-	-
1954-S34	2434888.50	1954 May 26	R-2	-	Prod. missile	NII-88 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S17	2434888.50	1954 May 26	R-2	-	Prod. missile	NII-88 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S18	2434893.50	1954 May 31	R-2	-	Prod. missile	ZAV586 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S19	2434895.50	1954 Jun 2	R-2	-	Prod. missile	ZAV586 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S96	2434901.50	1954 Jun 8	R-2	-	Prod. missile	ZAV586 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S97	2434902.50	1954 Jun 9	R-2	-	Prod. missile	ZAV586 Prod GIM-2	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S36	2434904.50	1954 Jun 11	R-1 8A11	-	No 12-1953	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S37	2434905.50	1954 Jun 12	R-1 8A11	-	No 720-1952	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S38	2434907.50	1954 Jun 14	R-1 8A11	-	No 14-1951	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S40	2434920.06	1954 Jun 26 1324	R-1D	-	1	1RD	-	-	-	GTsP-4	-	-	-	106	-	-
1954-S41	2434925.50	1954 Jul 2	R-1D	-	2	1RD	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S42	2434930.50	1954 Jul 7	R-1D	-	3	1RD	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S98	2434945.50	1954 Jul 22	R-2	-	S0-6	UGCh	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S61	2434956.50	1954 Aug 2	R-1 8A11	-	No 320	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S65	2434981.50	1954 Aug 27	R-1 8A11	-	No 520	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S66	2434981.50	1954 Aug 27	R-1 8A11	-	No 420	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S99	2435015.50	1954 Sep 30	R-2	-	K1-20	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S100	2435016.50	1954 Oct 1	R-2	-	K1-10	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S101	2435020.50	1954 Oct 5	R-2	-	K2-20	-	-	-	-	GTsP-4	-	-	-	150?	-	-
1954-S102	2435031.50	1954 Oct 16	R-2	-	K2-10	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-S103	2435045.50	1954 Oct 30	R-1 8A11	-	D21-14	UBP	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S104	2435073.50	1954 Nov 27	R-2	-	K3-10	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-S87	2435076.50	1954 Nov 30	R-1 8A11	-	No 1915 (1953)	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S105	2435077.50	1954 Dec 1	R-2	-	-	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-S88	2435077.50	1954 Dec 1	R-1 8A11	-	No 620	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1954-S106	2435082.50	1954 Dec 6	R-2	-	-	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-S107	2435085.50	1954 Dec 9	R-2	-	K3-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-S108	2435099.50	1954 Dec 23	R-2	-	-	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1954-A739	2435101.50	1954 Dec 25	R-2	-	-	Generator-2	-	-	-	GTsP-4	-	-	-	30?	-	-
1955-S110	2435111.50	1955 Jan 4	R-2	-	409	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S115	2435122.50	1955 Jan 15	R-2	-	408	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S120	2435132.50	1955 Jan 25	R-2	-	403	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S07	2435132.50	1955 Jan 25	R-1E	-	1	1RE	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S08	2435135.50	1955 Jan 28	R-1 8A11	-	No 720	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S09	2435136.50	1955 Jan 29	R-1 8A11	-	No 920	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S121	2435138.50	1955 Jan 31	R-2	-	402	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S13	2435141.50	1955 Feb 3	R-1 8A11	-	No 820	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S15	2435143.50	1955 Feb 5	R-1E	-	2	1RE	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S17	2435145.50	1955 Feb 7	R-1 8A11	-	No 1020	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S123	2435146.50	1955 Feb 8	R-2	-	K5-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S124	2435146.50	1955 Feb 8	R-2	-	K4-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S133	2435163.50	1955 Feb 25	R-2	-	K7-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S134	2435166.50	1955 Feb 28	R-2	-	K8-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S135	2435167.50	1955 Mar 1	R-2	-	K6-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-A668	2435168.50	1955 Mar 2	R-2	-	K3-5D	UGCh	-	-	-	GTsP-4	-	-	-	15?	-	-
1955-S136	2435187.50	1955 Mar 21	R-2	-	K0-10	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S137	2435201.50	1955 Apr 4	R-2	-	K0-11	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S26	2435205.50	1955 Apr 8	R-1 8A11	-	No 410	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S28	2435206.50	1955 Apr 9	R-1 8A11	-	No 1811	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S29	2435209.50	1955 Apr 12	R-1 8A11	-	No 405	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S30	2435212.50	1955 Apr 15	R-1 8A11	-	No 215	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S138	2435245.50	1955 May 18	R-2	-	S1-20 TAD	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S139	2435247.50	1955 May 20	R-2	-	S2-20 TAD	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S140	2435255.50	1955 May 28	R-2	-	K8-12	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S141	2435258.50	1955 May 31	R-2	-	K2-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S142	2435259.50	1955 Jun 1	R-2	-	K6-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S45	2435276.50	1955 Jun 18	R-1 8A11	-	No 318	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S143	2435278.50	1955 Jun 20	R-2	-	S3-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S48	2435282.50	1955 Jun 24	R-1 8A11	-	No 305	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S144	2435286.50	1955 Jun 28	R-2	-	S6-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S145	2435303.50	1955 Jul 15	R-2	-	S0-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S54	2435308.50	1955 Jul 20	R-2	-	S0-3	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S57	2435313.50	1955 Jul 25	R-1 8A11	-	No 104	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S58	2435314.50	1955 Jul 26	R-1 8A11	-	No 119	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-A669	2435314.50	1955 Jul 26	R-2	-	S0-4	UGCh	-	-	-	GTsP-4	-	-	-	15?	-	-
1955-S59	2435317.50	1955 Jul 29	R-1 8A11	-	No 0427	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S63	2435320.50	1955 Aug 1	R-1 8A11	-	No 0430	-	-	-	-	GTsP-4	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-S146	2435322.50	1955 Aug 3	R-2	-	S7-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S62	2435324.50	1955 Aug 5	R-2	-	S0-2	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S147	2435325.50	1955 Aug 6	R-2	-	406	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S148	2435327.50	1955 Aug 8	R-2	-	S0-5	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S65	2435343.50	1955 Aug 24	R-1 8A11	-	No 302	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S149	2435343.50	1955 Aug 24	R-2	-	S0-8	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S66	2435344.50	1955 Aug 25	R-1 8A11	-	No 0315	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S150	2435346.50	1955 Aug 27	R-2	-	S0-7	UGCh	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S151	2435349.50	1955 Aug 30	R-2	-	S8-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S152	2435350.50	1955 Aug 31	R-2	-	S9-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S153	2435379.50	1955 Sep 29	R-2	-	S11-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S154	2435381.50	1955 Oct 1	R-2	-	S10-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S89	2435385.50	1955 Oct 5	R-1 8A11	-	No K1-17	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S91	2435388.50	1955 Oct 8	R-1 8A11	-	No K1-19	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1955-S155	2435411.50	1955 Oct 31	R-2	-	S12-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S156	2435430.50	1955 Nov 19	R-2	-	S13-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S157	2435434.50	1955 Nov 23	R-2	-	S14-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S158	2435434.50	1955 Nov 23	R-2	-	415	Generator-2	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S159	2435457.50	1955 Dec 16	R-2	-	S15-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S160	2435458.50	1955 Dec 17	R-2	-	S16-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S161	2435465.50	1955 Dec 24	R-2	-	S18-10	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S162	2435468.50	1955 Dec 27	R-2	-	S17-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S163	2435469.50	1955 Dec 28	R-2	-	S19-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S164	2435471.50	1955 Dec 30	R-2	-	S19-19	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1955-S100	2435415.50	1955 Nov 4	R-1E	-	3	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S08	2435493.50	1956 Jan 21	R-1 8A11	-	No 101	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S114	2435496.50	1956 Jan 24	R-1 8A11	-	No 465	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S11	2435516.50	1956 Feb 13	R-1 8A11	-	No 431	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S12	2435517.50	1956 Feb 14	R-1 8A11	-	No 453	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S118	2435520.50	1956 Feb 17	R-2	-	A1-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S122	2435541.50	1956 Mar 9	R-2	-	A2-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S21	2435560.50	1956 Mar 28	R-1 8A11	-	No 0316	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S23	2435579.50	1956 Apr 16	R-1 8A11	-	No 0317	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S123	2435592.50	1956 Apr 29	R-2	-	A3-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S124	2435601.50	1956 May 8	R-2	-	0105	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S125	2435601.50	1956 May 8	R-1UK	-	1T	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S126	2435603.50	1956 May 10	R-1UK	-	4T-1	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S127	2435609.50	1956 May 16	R-1UK	-	3T-1	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S35	2435624.62	1956 May 31 0257	R-1E	-	5	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S128	2435630.50	1956 Jun 6	R-1UK	-	5T-2	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S38	2435631.50	1956 Jun 7	R-1E (A-1)	-	6	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S129	2435632.50	1956 Jun 8	R-1UK	-	2T-1	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S130	2435636.50	1956 Jun 12	R-1UK	-	7T-2	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S131	2435636.50	1956 Jun 12	R-1UK	-	6T-2	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S29	2435638.50	1956 Jun 14	R-1E	-	4	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S132	2435642.50	1956 Jun 18	R-1UK	-	8T-2	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S133	2435644.50	1956 Jun 20	R-1UK	-	10T-3	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S134	2435645.50	1956 Jun 21	R-1UK	-	9T-3	Project T-3	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S49	2435654.50	1956 Jun 30	R-1 8A11	-	No 5112	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S135	2435666.50	1956 Jul 12	R-2	-	207	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-A72	2435674.50	1956 Jul 20	R-1 8A11	-	No 5301	-	-	-	-	GTsP-4	-	-	-	45?	-	-
1956-S62	2435678.50	1956 Jul 24	R-1 8A11	-	No 0409	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S64	2435680.50	1956 Jul 26	R-1 8A11	-	No 0311	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S67	2435682.50	1956 Jul 28	R-1 8A11	-	No 0307	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S136	2435682.50	1956 Jul 28	R-2	-	A3-5	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S137	2435682.50	1956 Jul 28	R-2	-	S19-18	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S142	2435745.50	1956 Sep 29	R-2	-	A4-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S143	2435770.50	1956 Oct 24	R-1 8A11	-	No 102	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S144	2435771.50	1956 Oct 25	R-1 8A11	-	No 103	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S145	2435771.50	1956 Oct 25	R-2	-	0310	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S146	2435771.50	1956 Oct 25	R-2	-	A3-10	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S147	2435772.50	1956 Oct 26	R-1 8A11	-	No 104	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S149	2435780.50	1956 Nov 3	R-2	-	A5-20	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1956-S150	2435789.50	1956 Nov 12	R-1 8A11	-	No 303	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S156	2435813.50	1956 Dec 6	R-1 8A11	-	No 103?	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1956-S111	2435827.50	1956 Dec 20	A-1	-	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S184	2435851.50	1957 Jan 13	R-1 8A11	-	No 0406	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S185	2435852.50	1957 Jan 14	R-1 8A11	-	No 0408	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S191	2435888.50	1957 Feb 19	R-1 8A11	-	No 0920	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S194	2435897.50	1957 Feb 28	R-2	-	M1-25	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S25	2435940.50	1957 Apr 12	R-2	?	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S27	2435942.50	1957 Apr 14	R-2	?	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S34	2435974.64	1957 May 16 0318	R-2A	-	No. 1	-	-	-	-	GTsP-4	-	-	-	200	-	-
1957-S36	2435982.50	1957 May 24	R-2A	-	No. 2	-	-	-	-	GTsP-4	-	-	-	200	-	-
1957-S200	2435987.50	1957 May 29	R-2	-	M2-25	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S201	2435990.50	1957 Jun 1	R-1 8A11	-	0418	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S202	2435990.50	1957 Jun 1	R-1 8A11	-	0419	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S203	2435994.50	1957 Jun 5	R-2	-	0405	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S204	2435996.50	1957 Jun 7	R-2	-	0406	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S38	2435996.50	1957 Jun 7	R-2	-	[These dubious?]	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S39	2435999.50	1957 Jun 10	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S42	2436011.50	1957 Jun 22	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S43	2436012.50	1957 Jun 23	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S47	2436017.50	1957 Jun 28	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S48	2436018.50	1957 Jun 29	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S54	2436023.50	1957 Jul 4	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S56	2436024.50	1957 Jul 5	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1957-S208	2436026.50	1957 Jul 7	R-2	-	0417RD	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-S209	2436027.50	1957 Jul 8	R-1	-	52080416	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S210	2436028.50	1957 Jul 9	R-2	-	K2-5	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S211	2436028.50	1957 Jul 9	R-1	-	0415	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-A160	2436029.50	1957 Jul 10	R-1	-	0414	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-S213	2436029.50	1957 Jul 10	R-2	-	0409	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-A161	2436032.50	1957 Jul 13	R-1	-	5208413	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-S214	2436037.50	1957 Jul 18	R-2	-	0407	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S215	2436038.50	1957 Jul 19	R-2	-	0408	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S218	2436041.50	1957 Jul 22	R-2	-	0419	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-A162	2436043.50	1957 Jul 24	R-1	-	53010116	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1957-S219	2436043.50	1957 Jul 24	R-2	-	0319RD	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-S220	2436048.50	1957 Jul 29	R-2	-	0217RD	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-S221	2436055.50	1957 Aug 5	R-2	-	0216	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-S222	2436056.50	1957 Aug 6	R-2	-	0215	-	-	-	-	GTsP-4	SP-2	-	-	170?	-	-
1957-S223	2436057.50	1957 Aug 7	R-2	-	K3-12	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S224	2436058.50	1957 Aug 8	R-2	-	K3-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S84	2436063.50	1957 Aug 13	R-2A	-	-	SOI	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S225	2436070.50	1957 Aug 20	R-2	-	K3-14	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S235	2436072.50	1957 Aug 22	R-2	-	K3-4	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S236	2436073.50	1957 Aug 23	R-2	-	K3-13	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S94	2436075.60	1957 Aug 25 0223	R-2A	-	No. 3	-	-	-	-	GTsP-4	-	-	-	206	-	-
1957-S237	2436077.50	1957 Aug 27	R-2	-	K3-7	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S238	2436077.50	1957 Aug 27	R-2	-	K3-2	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S239	2436077.50	1957 Aug 27	R-2	-	K3-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S103	2436081.73	1957 Aug 31 0530	R-2A	-	No. 4	-	-	-	-	GTsP-4	-	-	-	185	-	-
1957-S108	2436091.16	1957 Sep 9 1550	R-2A	-	No. 5	-	-	-	-	GTsP-4	-	-	-	212	-	-
1957-S244	2436102.50	1957 Sep 21	R-2	-	0410	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S245	2436102.50	1957 Sep 21	R-2	-	0412	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S246	2436103.50	1957 Sep 22	R-2	-	0411	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S247	2436104.50	1957 Sep 23	R-2	-	K3-15	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S248	2436110.50	1957 Sep 29	R-2	-	0414	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S249	2436111.50	1957 Sep 30	R-2	-	0413	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S250	2436112.50	1957 Oct 1	R-2	-	K2-11	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S251	2436113.50	1957 Oct 2	R-2	-	K3-11	Tactical launcher	-	-	-	URDA	-	-	-	170?	-	-
1957-S252	2436117.50	1957 Oct 6	R-1	-	5108088419	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S253	2436117.50	1957 Oct 6	R-1	-	5108088423	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S254	2436123.50	1957 Oct 12	R-2	-	52120311	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S255	2436123.50	1957 Oct 12	R-2	-	52120312	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S256	2436124.50	1957 Oct 13	R-1	-	5108088422	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S257	2436124.50	1957 Oct 13	R-2	-	52120313	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S258	2436124.50	1957 Oct 13	R-2	-	K3-6	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S259	2436125.50	1957 Oct 14	R-1	-	0101	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S260	2436125.50	1957 Oct 14	R-1	-	5108088429	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S261	2436135.50	1957 Oct 24	R-1	-	53040818	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S262	2436135.50	1957 Oct 24	R-1	-	53091511	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S263	2436135.50	1957 Oct 24	R-1	-	53081319	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1957-S264	2436137.50	1957 Oct 26	R-2	-	53050110	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S265	2436138.50	1957 Oct 27	R-2	-	52120309	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S266	2436146.50	1957 Nov 4	R-2	-	52120308	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1957-S167	2436152.20	1957 Nov 9 1654	A-1	-	-	-	-	-	-	GTsP-4	-	-	-	330	-	-
1958-S304	2436213.50	1958 Jan 10	R-1	-	53030610	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S305	2436213.50	1958 Jan 10	R-1	-	53071201	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S306	2436214.50	1958 Jan 11	R-1	-	53091713	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S307	2436220.50	1958 Jan 17	R-2	-	53120317	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S308	2436234.50	1958 Jan 31	R-1	-	D2111	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S309	2436245.50	1958 Feb 11	R-1	-	519088433	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S310	2436254.50	1958 Feb 20	R-2	-	K3-18	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S312	2436348.50	1958 May 25	R-1	-	K6-7	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S313	2436348.50	1958 May 25	R-1	-	K2-19	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S314	2436350.50	1958 May 27	R-1	-	K9-9	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S315	2436350.50	1958 May 27	R-1	-	K1-3	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S91	2436386.71	1958 Jul 2 0500	R-2A	?	-	[Mistake for Aug 2?]	-	-	-	GTsP-4	-	-	-	210	-	-
1958-S316	2436388.50	1958 Jul 4	R-2	-	52120418	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S317	2436388.50	1958 Jul 4	R-1	-	52080408	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S318	2436392.50	1958 Jul 8	R-2	-	52120416	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S331	2436392.50	1958 Jul 8	R-2	-	52120415	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S332	2436392.50	1958 Jul 8	R-1	-	52080407	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S333	2436392.50	1958 Jul 8	R-1	-	52080410	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S335	2436399.50	1958 Jul 15	R-1	-	52080411	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S336	2436399.50	1958 Jul 15	R-2	-	52120417	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S337	2436408.50	1958 Jul 24	R-1	-	51120504	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S338	2436408.50	1958 Jul 24	R-1	-	51120106	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S339	2436409.50	1958 Jul 25	R-1	-	51120107	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-A215	2436413.50	1958 Jul 29	R-2	-	51120301	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1958-S343	2436413.50	1958 Jul 29	R-2	-	51120303	-	-	-	-	GTsP-4	-	-	-	40?	-	-
1958-S114	2436416.50	1958 Aug 1	R-2	-	53120416RD	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1958-S133	2436417.74	1958 Aug 2 0547	R-2A	-	No. 6	-	-	-	-	GTsP-4	-	-	-	211	-	-
1958-S136	2436422.50	1958 Aug 7	R-2	-	S13-11D	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1958-S159	2436428.58	1958 Aug 13 0200	R-2A	-	No. 7	-	-	-	-	GTsP-4	-	-	-	208	-	-
1958-S344	2436431.50	1958 Aug 16	R-1	-	52090501	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S164	2436432.50	1958 Aug 17	R-2	-	53120418RD	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1958-S167	2436442.50	1958 Aug 27	R-2	-	S13-15D	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1958-S345	2436447.50	1958 Sep 1	R-2	-	M2-18	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S346	2436447.50	1958 Sep 1	R-2	-	K3-3	-	-	-	-	GTsP-4	-	-	-	170?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1958-S347	2436454.50	1958 Sep 8	R-1	-	D2115	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1958-S348	2436454.50	1958 Sep 8	R-2	-	M2-3D	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S349	2436459.50	1958 Sep 13	R-2	-	K2-16	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S350	2436462.50	1958 Sep 16	R-2	-	A3-6	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S351	2436462.50	1958 Sep 16	R-2	-	A3-6 (DUP?)	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1958-S227	2436491.50	1958 Oct 15	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1959-S296	2436597.50	1959 Jan 29	R-2	-	53060204	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S297	2436597.50	1959 Jan 29	R-1	-	D217	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1959-S313	2436692.50	1959 May 4	R-2	-	S6-2	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S314	2436701.50	1959 May 13	R-2	-	S9-4	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S315	2436706.50	1959 May 18	R-2	-	S6-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S316	2436709.50	1959 May 21	R-2	-	S2-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S317	2436709.50	1959 May 21	R-2	-	S2-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S318	2436710.50	1959 May 22	R-2	-	S2-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S324	2436720.50	1959 Jun 1	R-2	-	S2-7	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S325	2436724.50	1959 Jun 5	R-2	-	S2-4	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S326	2436725.50	1959 Jun 6	R-2	-	S6-3	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S327	2436730.50	1959 Jun 11	R-2	-	S2-3	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S328	2436730.50	1959 Jun 11	R-2	-	S2-8	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S333	2436734.50	1959 Jun 15	R-2	-	S2-2	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S334	2436735.50	1959 Jun 16	R-2	-	S2-6	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S339	2436739.50	1959 Jun 20	R-1	-	54010808	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1959-S340	2436739.50	1959 Jun 20	R-1	-	54010809	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1959-S103	2436751.78	1959 Jul 2 0640	R-2A	-	No. 9	-	-	-	-	GTsP-4	-	-	-	220	-	-
1959-S335	2436752.50	1959 Jul 3	R-2	-	S3-1	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S336	2436757.50	1959 Jul 8	R-2	-	S2-12	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S337	2436757.50	1959 Jul 8	R-2	-	S2-18	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S338	2436758.50	1959 Jul 9	R-2	-	S2-14	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S107	2436759.70	1959 Jul 10 0447	R-2A	-	No. 10	-	-	-	-	GTsP-4	-	-	-	205	-	-
1959-S345	2436762.50	1959 Jul 13	R-2	-	S2-19	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S346	2436762.50	1959 Jul 13	R-2	-	S3-2	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S347	2436763.50	1959 Jul 14	R-2	-	S2-17	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S348	2436763.50	1959 Jul 14	R-2	-	S3-4	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S108	2436763.65	1959 Jul 14 0340	R-2A	-	-	-	-	-	-	GTsP-4	-	-	-	203	-	-
1959-S349	2436765.50	1959 Jul 16	R-2	-	S2-13	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S350	2436765.50	1959 Jul 16	R-2	-	S2-16	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S351	2436769.50	1959 Jul 20	R-2	-	53060119	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S352	2436769.50	1959 Jul 20	R-2	-	S3-3	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S353	2436769.50	1959 Jul 20	R-2	-	S3-6	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S120	2436771.55	1959 Jul 22 0114	R-2A	?	[dup?]	-	-	-	-	GTsP-4	-	-	-	211	-	-
1959-S364	2436797.50	1959 Aug 17	R-1	-	53081418	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1959-S387	2436881.50	1959 Nov 9	R-1	-	D21-10	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1959-S388	2436892.50	1959 Nov 20	R-2	-	S3-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S389	2436892.50	1959 Nov 20	R-2	-	S3-14	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S390	2436898.50	1959 Nov 26	R-2	-	S3-16	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S391	2436898.50	1959 Nov 26	R-2	-	S3-12	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S392	2436899.50	1959 Nov 27	R-2	-	S3-13	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-A252	2436900.50	1959 Nov 28	R-2	-	S3-8	-	-	-	-	GTsP-4	-	-	-	20?	-	-
1959-S393	2436925.50	1959 Dec 23	R-2	-	S4-6	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S411	2436926.50	1959 Dec 24	R-2	-	S4-7	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S412	2436926.50	1959 Dec 24	R-2	-	S4-13	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-A253	2436927.50	1959 Dec 25	R-2	-	S4-8	-	-	-	-	GTsP-4	-	-	-	0	-	-
1959-S413	2436930.50	1959 Dec 28	R-2	-	S4-12	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1959-S414	2436930.50	1959 Dec 28	R-2	-	S4-9	-	-	-	-	GTsP-4	-	-	-	170?	-	-
1960-S465	2437078.50	1960 May 24	R-2	-	5306-0203	-	-	-	-	GTsP-4	-	-	-	170?	537	-
1960-S449	2437093.50	1960 Jun 8	R-1	-	5308-1414	-	-	-	-	GTsP-4	-	-	-	100?	240	-
1960-S126	2437100.61	1960 Jun 15 0243	R-2A	-	No. 12	Dog capsule	-	-	-	GTsP-4	-	-	-	208	-	-
1960-S142	2437109.46	1960 Jun 23 2300	R-2A	-	No. 13	Dog capsule	-	-	-	GTsP-4	-	-	-	190	-	-
1960-S163	2437119.50	1960 Jul 4	R-2	-	[Dubious]	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1960-S166	2437121.50	1960 Jul 6	R-2	-	M2-7D	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	559	-
1960-S466	2437129.50	1960 Jul 14	R-2	-	S10-1	-	-	-	-	GTsP-4	-	-	-	200	537	-
1960-S467	2437130.50	1960 Jul 15	R-2	-	5307-0214	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S191	2437138.50	1960 Jul 23	R-2	-	M2-6D	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	200?	558	-
1960-S213	2437146.50	1960 Jul 31	R-2	-	M2-4D	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	200?	559	-
1960-S468	2437147.50	1960 Aug 1	R-2	-	M2-9D	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S471	2437156.50	1960 Aug 10	R-2	-	S10-2	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S472	2437156.50	1960 Aug 10	R-2	-	S10-3	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S469	2437157.50	1960 Aug 11	R-2	-	A1-2	-	-	-	-	GTsP-4	-	-	-	200	537	-
1960-S470	2437158.50	1960 Aug 12	R-2	-	A1-1	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S473	2437177.50	1960 Aug 31	R-2	-	S10-7	-	-	-	-	GTsP-4	-	-	-	200	-	-
1960-S272	2437193.50	1960 Sep 16	R-2A	-	No. 10	-	-	-	-	GTsP-4	-	-	-	185	-	-
1960-S281	2437200.37	1960 Sep 22 2056	R-2A	-	No. 11	-	-	-	-	GTsP-4	-	-	-	190	-	-
1960-S262	2437177.50	1960 Sep	R-2	-	-	-	-	-	-	JQ	LA3	-	-	100?	-	-
1960-S350	2437243.54	1960 Nov 5 0100	DF-1	-	-	-	-	-	-	JQ	LA3	-	-	100?	-	-
1960-S388	2437268.50	1960 Dec	DF-1	-	-	-	-	-	-	JQ	LA3	-	-	100?	-	-
1960-S389	2437268.50	1960 Dec	DF-1	-	-	-	-	-	-	JQ	LA3	-	-	100?	-	-
1960-S450	2437282.50	1960 Dec 14	R-1	-	D20-19	-	-	-	-	GTsP-4	-	-	-	100?	256	-
1960-S474	2437282.50	1960 Dec 14	R-2	-	5312-0507	-	-	-	-	GTsP-4	-	-	-	200?	553	-
1960-S451	2437283.50	1960 Dec 15	R-1	-	5304-0918	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S452	2437283.50	1960 Dec 15	R-1	-	5162-0467	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S475	2437283.50	1960 Dec 15	R-2	-	S17-19	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S453	2437284.50	1960 Dec 16	R-1	-	5205-0219	-	-	-	-	GTsP-4	-	-	-	100?	240	-
1960-S454	2437284.50	1960 Dec 16	R-1	-	5205-0505	-	-	-	-	GTsP-4	-	-	-	100?	256	-
1960-S476	2437284.50	1960 Dec 16	R-2	-	S14-19	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S477	2437284.50	1960 Dec 16	R-2	-	S18-1	-	-	-	-	GTsP-4	-	-	-	200?	545	-
1960-S478	2437285.50	1960 Dec 17	R-2	-	S16-1	-	-	-	-	GTsP-4	-	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S455	2437287.50	1960 Dec 19	R-1	-	5310-1903	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S456	2437287.50	1960 Dec 19	R-1	-	5309-1519	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S457	2437287.50	1960 Dec 19	R-1	-	5302-0304	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S458	2437287.50	1960 Dec 19	R-1	-	5303-0606	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S479	2437288.50	1960 Dec 20	R-2	-	S12-19	-	-	-	-	GTsP-4	-	-	-	200?	553	-
1960-S480	2437288.50	1960 Dec 20	R-2	-	S10-4	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S459	2437289.50	1960 Dec 21	R-1	-	5303-0717	-	-	-	-	GTsP-4	-	-	-	100?	240	-
1960-S481	2437292.50	1960 Dec 24	R-2	-	S9-19	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S460	2437294.50	1960 Dec 26	R-1	-	5307-1301	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S461	2437294.50	1960 Dec 26	R-1	-	5212-0901	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S482	2437294.50	1960 Dec 26	R-2	-	5309-0312	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S483	2437294.50	1960 Dec 26	R-2	-	S15-19	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S484	2437294.50	1960 Dec 26	R-2	-	S11-1	-	-	-	-	GTsP-4	-	-	-	200?	545	-
1960-S485	2437296.50	1960 Dec 28	R-2	-	5212-0302	-	-	-	-	GTsP-4	-	-	-	200?	553	-
1960-S486	2437296.50	1960 Dec 28	R-2	-	S8-1	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1960-S487	2437296.50	1960 Dec 28	R-2	-	S1-2	-	-	-	-	GTsP-4	-	-	-	200?	545	-
1960-S462	2437297.50	1960 Dec 29	R-1	-	5303-0801	-	-	-	-	GTsP-4	-	-	-	100?	256	-
1960-S463	2437297.50	1960 Dec 29	R-1	-	5307-1204	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S464	2437298.50	1960 Dec 30	R-1	-	5309-1608	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1960-S488	2437298.50	1960 Dec 30	R-2	-	S7-7	-	-	-	-	GTsP-4	-	-	-	200?	553	-
1960-A376	2437298.50	1960 Dec 30	R-2	-	5305-0107	-	-	-	-	GTsP-4	-	-	-	0?	-	-
1961-S481	2437302.50	1961 Jan 3	R-1	-	5309-1707	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S482	2437302.50	1961 Jan 3	R-1	-	5303-0802	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S483	2437302.50	1961 Jan 3	R-1	-	5302-0501	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S484	2437302.50	1961 Jan 3	R-1	-	5310-1801	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S489	2437302.50	1961 Jan 3	R-2	-	5306-0201	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S490	2437302.50	1961 Jan 3	R-2	-	5311-0414	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S485	2437304.50	1961 Jan 5	R-1	-	5212-0801	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S486	2437304.50	1961 Jan 5	R-1	-	5206-0303	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S487	2437304.50	1961 Jan 5	R-1	-	5210-0601	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S488	2437304.50	1961 Jan 5	R-1	-	5212-1001	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1961-S491	2437305.50	1961 Jan 6	R-2	-	S4-5D	-	-	-	-	GTsP-4	-	-	-	200?	540	-
1961-S492	2437468.50	1961 Jun 18	R-2	-	S8-14	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S493	2437468.50	1961 Jun 18	R-2	-	S8-8	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S494	2437469.50	1961 Jun 19	R-2	-	S8-19	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S495	2437471.50	1961 Jun 21	R-2	-	S8-17	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S496	2437472.50	1961 Jun 22	R-2	-	S8-2	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S497	2437476.50	1961 Jun 26	R-2	-	S8-16	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S498	2437477.50	1961 Jun 27	R-2	-	S8-3	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S499	2437478.50	1961 Jun 28	R-2	-	S10-6	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S500	2437479.50	1961 Jun 29	R-2	-	S10-11D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S501	2437480.50	1961 Jun 30	R-2	-	S10-15D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S502	2437491.50	1961 Jul 11	R-2	-	S9-13	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S503	2437493.50	1961 Jul 13	R-2	-	S9-12	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S504	2437494.50	1961 Jul 14	R-2	-	S9-17	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S505	2437497.50	1961 Jul 17	R-2	-	S9-2	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S506	2437498.50	1961 Jul 18	R-2	-	S8-6	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S507	2437500.50	1961 Jul 20	R-2	-	S8-18	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S508	2437504.50	1961 Jul 24	R-2	-	S8-12	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S509	2437504.50	1961 Jul 24	R-2	-	S8-7	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S510	2437505.50	1961 Jul 25	R-2	-	S8-11D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S511	2437506.50	1961 Jul 26	R-2	-	S8-9	-	-	-	-	GTsP-4	-	-	-	200?	540	-
1961-S512	2437506.50	1961 Jul 26	R-2	-	S8-10D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S513	2437507.50	1961 Jul 27	R-2	-	S8-15D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S514	2437507.50	1961 Jul 27	R-2	-	S8-4	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S515	2437515.50	1961 Aug 4	R-2	-	S10-5D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S516	2437515.50	1961 Aug 4	R-2	-	S10-10D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S517	2437520.50	1961 Aug 9	R-2	-	S9-3	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S518	2437521.50	1961 Aug 10	R-2	-	S9-14	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S519	2437527.50	1961 Aug 16	R-2	-	S18-4	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S520	2437527.50	1961 Aug 16	R-2	-	S18-12	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S521	2437528.50	1961 Aug 17	R-2	-	S18-7	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S522	2437528.50	1961 Aug 17	R-2	-	S18-11D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S523	2437536.50	1961 Aug 25	R-2	-	S18-6	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S524	2437536.50	1961 Aug 25	R-2	-	S18-9	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S525	2437539.50	1961 Aug 28	R-2	-	S18-14	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S526	2437543.50	1961 Sep 1	R-2	-	S18-2	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S527	2437553.50	1961 Sep 11	R-2	-	S18-13	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S528	2437554.50	1961 Sep 12	R-2	-	S18-3	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S529	2437560.50	1961 Sep 18	R-2	-	S18-8	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S459	2437560.50	1961 Sep 18	R-2	-	K2-18	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S541	2437561.50	1961 Sep 19	R-2	-	S18-5D	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-A393	2437562.50	1961 Sep 20	R-2	-	K7-7	-	-	-	-	GTsP-4	-	-	-	30?	49	-
1961-S542	2437567.50	1961 Sep 25	R-2	-	K5-4	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S543	2437569.50	1961 Sep 27	R-2	-	S16-6	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S544	2437570.50	1961 Sep 28	R-2	-	A3-8	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S545	2437571.50	1961 Sep 29	R-2	-	S12-7	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S546	2437574.50	1961 Oct 2	R-2	-	A4-1	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S547	2437581.50	1961 Oct 9	R-2	-	S12-18	-	-	-	-	GTsP-4	-	-	-	200?	-	-
1961-S548	2437582.50	1961 Oct 10	R-2	-	A5-1	-	-	-	-	GTsP-4	-	-	-	200?	540	-
1962-A35	2437744.50	1962 Mar 21	DF-2	-	1	Flight test 1	-	-	-	JQ	LA3	-	-	0?	-	-
1962-S137	2437805.50	1962 May 21	R-2	-	-	NIIP-A target	-	-	-	GTsP-4	SP-2	-	-	100?	-	-
1964-S315	2438575.50	1964 Jun 29	DF-2	-	2	Flight test 2	-	-	-	JQ	LA3	-	-	200?	-	-
1964-S337	2438585.50	1964 Jul 9	DF-2	-	3	Flight test 3	-	-	-	JQ	LA3	-	-	200?	-	-
1964-S341	2438587.50	1964 Jul 11	DF-2	-	4	Flight test 4	-	-	-	JQ	LA3	-	-	200?	-	-
1964-S821	2438576.50	1964 Q3?	DF-2	-	5	Flight test 5	-	-	-	JQ	LA3	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-S465	2438651.62	1964 Sep 13 0257	A-1	-	-	-	-	-	-	GTsP-4	-	-	-	100?	-	-
1965-S810	2438760.50	1965	DF-2	-	6	Flight test 6	-	-	-	JQ	LA3	-	-	200?	-	-
1965-S811	2438760.50	1965	DF-2	-	7	Flight test 7	-	-	-	JQ	LA3	-	-	200?	-	-
1965-S812	2438760.50	1965	DF-2	-	8	Flight test 8	-	-	-	JQ	LA3	-	-	200?	-	-
1965-S813	2438760.50	1965?	DF-2	-	9	Flight test 9	-	-	-	JQ	LA3	-	-	200?	-	-
1965-A236	2438760.50	1965?	DF-2	-	10	Flight test 10	-	-	-	JQ	LA3	-	-	0?	-	-
1966-S796	2439337.50	1966 Aug	DF-2	-	-	Flight test 2-1	-	-	-	JQ	LA3	-	-	200?	-	-
1966-S797	2439337.50	1966 Aug?	DF-2	-	-	Flight test 2-2	-	-	-	JQ	LA3	-	-	200?	-	-
1966-S798	2439368.50	1966 Sep?	DF-2	-	-	Flight test 2-3	-	-	-	JQ	LA3	-	-	200?	-	-
1966-S799	2439368.50	1966 Sep?	DF-2	-	-	Flight test 2-4	-	-	-	JQ	LA3	-	-	200?	-	-
1966-S800	2439368.50	1966 Sep	DF-2	-	-	Flight test 2-5	-	-	-	JQ	LA3	-	-	200?	-	-
1966-A594	2439405.50	1966 Oct 7	DF-2	-	-	Self destruct test	-	-	-	JQ	LA3	-	-	10?	-	-
1966-S801	2439411.50	1966 Oct 13	DF-2	-	-	Cold flight test	-	-	-	JQ	LA3	-	-	200?	640?	Xinjiang?
1966-S802	2439414.50	1966 Oct 16	DF-2	-	-	Cold flight test	-	-	-	JQ	LA3	-	-	200?	640?	Xinjiang?
1966-S566	2439425.50	1966 Oct 27	DF-2A	-	-	Nuclear test	-	-	-	JQ	LA3	-	-	200?	640	Xinjiang
1971-S635	2441255.50	1971 Nov	DF-2	?	-	-	-	-	-	JQ	LA3	-	-	200?	-	-
1974-S433	2442047.50	1974?	DF-2	?	-	-	-	-	-	JQ	LA3	-	-	200?	-	-
1974-S434	2442047.50	1974?	DF-2	?	-	-	-	-	-	JQ	LA3	-	-	200?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1942-A01	2430523.95	1942 Jun 13 1052	A-4	-	2	0.000	WEHR	MF	U	-	Test	TTaylor	-	-
1942-A02	2430587.97	1942 Aug 16 1115	A-4	-	3	0.000	WEHR	MF	U	-	Test	Stuhlinger	RocketTeam	-
1942-S01	2430636.12	1942 Oct 3 1458	A-4	-	4	0.000	WEHR	MS	-	-	Test	Stuhlinger	AE1961A	-
1942-A03	2430653.50	1942 Oct 21	A-4	-	5	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1942-M01	2430672.50	1942 Nov 9	A-4	-	6	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1942-A04	2430691.50	1942 Nov 28	A-4	-	7	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1942-A05	2430705.50	1942 Dec 12	A-4	-	9	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A01	2430731.50	1943 Jan 7	A-4	-	10	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A02	2430749.50	1943 Jan 25	A-4	-	11	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A03	2430772.50	1943 Feb 17	A-4	-	12	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-A04	2430774.50	1943 Feb 19	A-4	-	13	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A05	2430786.50	1943 Mar 3	A-4	-	16	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-S01	2430801.50	1943 Mar 18	A-4	-	18	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A06	2430808.50	1943 Mar 25	A-4	-	19	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-S02	2430828.50	1943 Apr 14	A-4	-	20	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S03	2430837.10	1943 Apr 22 1425	A-4	-	21	0.000	WEHR	MS	-	-	Test	DeMaes	AE1961A	-
1943-S04	2430858.50	1943 May 14	A-4	-	22	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S05	2430870.96	1943 May 26 1100	A-4	-	26	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-A07	2430871.19	1943 May 26 1630?	A-4	-	25	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-S06	2430871.50	1943 May 27	A-4	-	24	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S07	2430876.50	1943 Jun 1	A-4	-	23	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S08	2430886.50	1943 Jun 11	A-4	-	29	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S09	2430891.50	1943 Jun 16	A-4	-	31	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-A08	2430897.50	1943 Jun 22	A-4	-	28	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-S10	2430899.50	1943 Jun 24	A-4	-	30	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-S11	2430901.50	1943 Jun 26	A-4	-	36	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-A09	2430904.50	1943 Jun 29	A-4	-	38	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-S12	2430904.50	1943 Jun 29	A-4	-	40	0.000	WEHR	MS	-	-	Test	AE1961A	-	-
1943-A10	2430906.50	1943 Jul 1	A-4	-	33	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A11	2430914.50	1943 Jul 9	A-4	-	41	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A12	2430914.50	1943 Jul 9	A-4	-	34	0.000	WEHR	MF	U	-	Test	AE1961A	-	-
1943-A13	2431033.50	1943 Nov 5	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1943-S13	2431037.50	1943 Nov 9	A-4	-	43	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1943-S14	2431038.50	1943 Nov 10	A-4	-	73	0.000	WEHR	MU	-	-	Test	DeMaes	-	-
1943-A14	2431053.54	1943 Nov 25 0100?	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1943-A15	2431063.54	1943 Dec 5 0100	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S05	2431095.54	1944 Jan 6 0100?	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S01	2431089.50	1944 Jan	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S02	2431089.50	1944 Jan	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S03	2431089.50	1944 Jan	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S04	2431089.50	1944 Jan	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-A01	2431116.50	1944 Jan 27	A-4	-	17003	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1944-A02	2431119.40	1944 Jan 29 2130?	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1944-S06	2431120.50	1944 Feb	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S07	2431120.50	1944 Feb	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S08	2431120.50	1944 Feb	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S09	2431120.50	1944 Feb	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S10	2431120.50	1944 Feb	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S11	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S12	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S13	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S14	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S15	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S16	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S17	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S18	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S19	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S20	2431149.50	1944 Mar	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-A33	2431166.96	1944 Mar 17 1100?	A-4	-	17.047	0.000	WEHR	MF	U	-	Test	DeMaes	-	-
1944-S22	2431181.45	1944 Mar 31 2250?	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1944-S21	2431180.50	1944 Apr	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S23	2431194.50	1944 Apr 14	A-4	-	17.063	0.000	WEHR	MS	-	-	Test	DeMaes	RocketTeam	-
1944-S24	2431210.50	1944 May	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S25	2431230.50	1944 May 20	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	DeMaes	-
1944-S26	2431236.96	1944 May 26 1100?	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-A05	2431237.08	1944 May 26 1400?	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1944-A06	2431242.50	1944 Jun 1	A-4	-	-	0.000	WEHR	MF	U	-	Test	RocketTeam	-	-
1944-M01	2431255.13	1944 Jun 13 1503	A-4	-	V89	0.000	WEHR	MF	U	-	Test	Stuhlinger	RocketTeam	-
1944-S27	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S28	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	Neufeld/220	-	-
1944-S313	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S314	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S315	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S316	2431241.50	1944 Jun	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S317	2431261.50	1944 Jun 20?	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S29	2431295.50	1944 Jul 24	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S318	2431302.50	1944 Jul 31?	A-4	-	V205	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S31	2431316.17	1944 Aug 13 1607	V-2	-	18296	0.000	WER444	MS	-	-	Training	FE/VB158	-	-
1944-S32	2431316.26	1944 Aug 13 1815	V-2	-	18292	0.000	WER485-2	MS	-	-	Training	FE/VB158	-	-
1944-A07	2431316.78	1944 Aug 14 0637	V-2	-	18298	0.000	WER836-3	MF	U	-	Training	FE/VB158	-	-
1944-A08	2431316.80	1944 Aug 14 0717	V-2	-	18307	0.000	WER444	MF	U	-	Training	FE/VB158	-	-
1944-A09	2431316.88	1944 Aug 14 0904	V-2	-	18302	0.000	WER444	MF	U	-	Training	FE/VB158	-	-
1944-S33	2431316.90	1944 Aug 14 0933	V-2	-	18291	0.000	WER485-2	MS	-	-	Training	FE/VB158	-	-
1944-S34	2431316.91	1944 Aug 14 0952	V-2	-	18301	0.000	WER836-3	MS	-	-	Training	FE/VB158	-	-
1944-S35	2431316.97	1944 Aug 14 1123	V-2	-	18303	0.000	WER485-2	MS	-	-	Training	FE/VB158	-	-
1944-S36	2431317.04	1944 Aug 14 1253	V-2	-	18305	0.000	WER485-2	MS	-	-	Training	FE/VB158	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-A10	2431317.23	1944 Aug 14 1730	V-2	-	18308	0.000	WER485-2	MF	U	-	Training	FE/VB158	-	-
1944-S37	2431317.31	1944 Aug 14 1928	V-2	-	18309	0.000	WER444	MS	-	-	Training	FE/VB158	-	-
1944-S38	2431317.92	1944 Aug 15 1008	A-4	-	18311	0.000	WER836-3	MS	-	-	Training	FE/VB159	-	-
1944-S39	2431317.95	1944 Aug 15 1054	A-4	-	18312	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S40	2431318.00	1944 Aug 15 1157	A-4	-	18310	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S41	2431318.11	1944 Aug 15 1441	A-4	-	18314	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S42	2431318.21	1944 Aug 15 1704	A-4	-	18321	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S43	2431318.23	1944 Aug 15 1724	A-4	-	18315	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S44	2431318.32	1944 Aug 15 1937	A-4	-	18319	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S45	2431318.81	1944 Aug 16 0723	A-4	-	18318	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S46	2431318.82	1944 Aug 16 0738	A-4	-	18317	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S47	2431318.94	1944 Aug 16 1040	V-2	-	18295	0.000	WER444	MS	-	-	Training	FE/VB158	-	-
1944-S48	2431318.95	1944 Aug 16 1053	A-4	-	18323	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S49	2431319.10	1944 Aug 16 1430	A-4	-	18328	0.000	WER836-3	MS	-	-	Training	FE/VB159	-	-
1944-S50	2431320.03	1944 Aug 17 1242	A-4	-	18320	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-A11	2431320.04	1944 Aug 17 1256	V-2	-	18300	0.000	WER444	MF	U	-	Training	FE/VB158	-	-
1944-S51	2431320.05	1944 Aug 17 1314	A-4	-	18316	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S52	2431320.06	1944 Aug 17 1331	V-2	-	18290	0.000	WER836-2	MS	-	-	Training	FE/VB158	-	-
1944-S53	2431320.19	1944 Aug 17 1639	A-4	-	18327	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S54	2431320.22	1944 Aug 17 1723	A-4	-	18324	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S55	2431320.23	1944 Aug 17 1735	V-2	-	18306	0.000	WER836-3	MS	-	-	Training	FE/VB158	-	-
1944-S56	2431320.36	1944 Aug 17 2045	A-4	-	18325	0.000	WER485-2	MS	-	-	Training	FE/VB159	-	-
1944-S57	2431320.82	1944 Aug 18 0746	A-4	-	18326	0.000	WER444	MS	-	-	Training	FE/VB159	-	-
1944-S58	2431321.04	1944 Aug 18 1259	A-4	-	18345	0.000	WER485-2	MS	-	-	Training	FE/VB160	-	-
1944-A12	2431321.19	1944 Aug 18 1633	A-4	-	18350	0.000	WER836-3	MF	U	-	Training	FE/VB160	-	-
1944-S59	2431321.20	1944 Aug 18 1645	A-4	-	18336	0.000	WER444	MS	-	-	Training	FE/VB160	-	-
1944-S60	2431321.31	1944 Aug 18 1929	A-4	-	18339	0.000	WER485-2	MS	-	-	Training	FE/VB160	-	-
1944-S61	2431321.32	1944 Aug 18 1940	A-4	-	18349	0.000	WER836-3	MS	-	-	Training	FE/VB160	-	-
1944-S62	2431321.35	1944 Aug 18 2028	A-4	-	18346	0.000	WER485-2	MS	-	-	Training	FE/VB160	-	-
1944-S63	2431325.30	1944 Aug 22 1906	A-4	-	18322	0.000	WER500	MS	-	-	Training	FE/VB159	-	-
1944-S64	2431326.32	1944 Aug 23 1946	A-4	-	18210	0.000	WER500	MS	-	-	Training	FE/VB160	-	-
1944-S65	2431327.11	1944 Aug 24 1439	A-4	-	18209	0.000	WER500	MS	-	-	Training	FE/VB160	-	-
1944-A13	2431328.71	1944 Aug 26 0457	A-4	-	18344	0.000	WER485-2	MF	U	-	Training	FE/VB160	-	-
1944-S66	2431328.73	1944 Aug 26 0536	A-4	-	18337	0.000	WER485-2	MS	-	-	Training	FE/VB160	-	-
1944-S67	2431328.91	1944 Aug 26 0954	A-4	-	18333	0.000	WER485-2	MS	-	-	Training	FE/VB160	-	-
1944-S68	2431332.98	1944 Aug 30 1125	A-4	-	18299	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-S69	2431333.16	1944 Aug 30 1544	A-4	-	18334	0.000	WER836-1	MS	-	-	Training	FE/VB160	-	-
1944-S70	2431333.17	1944 Aug 30 1610	A-4	-	18338	0.000	WER444	MS	-	-	Training	FE/VB160	-	-
1944-A14	2431336.16	1944 Sep 2 1545	A-4	-	18293	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-A15	2431339.90	1944 Sep 6 0930	V-2	-	18589	0.000	WER444	MF	U	-	Weapon	Stuhlinger	RocketTeam	-
1944-A16	2431339.94	1944 Sep 6 1040	V-2	-	18593	0.000	WER444	MF	U	-	Weapon	Stuhlinger	RocketTeam	-
1944-S81	2431341.82	1944 Sep 8 0734	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S71	2431341.50	1944 Sep 8?	A-4	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	RocketTeam	-
1944-S82	2431342.19	1944 Sep 8 1635	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S83	2431342.19	1944 Sep 8 1636	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S84	2431344.31	1944 Sep 10 1924?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S85	2431344.79	1944 Sep 11 0702?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S86	2431344.81	1944 Sep 11 0725?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S87	2431345.76	1944 Sep 12 0610?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S88	2431345.76	1944 Sep 12 0614?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S89	2431345.78	1944 Sep 12 0647?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S90	2431346.01	1944 Sep 12 1215	A-4	-	18769	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S91	2431346.16	1944 Sep 12 1550?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S92	2431346.63	1944 Sep 13 0303	A-4	-	18767	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S93	2431347.38	1944 Sep 13 2100?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S94	2431347.13	1944 Sep 13 1508	A-4	-	18765	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-M02	2431347.20	1944 Sep 13 1647	A-4	-	18181	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-S95	2431347.50	1944 Sep 14	A-4	-	18014	0.000	WEHR	MS	-	-	Test	VonBraun58-8	-	-
1944-S96	2431347.50	1944 Sep 14	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S97	2431347.50	1944 Sep 14	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S100	2431347.62	1944 Sep 14 0248?	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S319	2431347.50	1944 Sep 14	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	-	-
1944-S320	2431347.50	1944 Sep 14	V-2	-	-	0.000	WER485	MS	-	-	Weapon	DeMaes	-	-
1944-S98	2431347.95	1944 Sep 14 1046	A-4	-	18745	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S99	2431348.09	1944 Sep 14 1412	A-4	-	18755	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S321	2431348.59	1944 Sep 15 0204	V-2	-	-	0.000	WER444	MS	-	-	Weapon	DeMaes	-	-
1944-S322	2431348.50	1944 Sep 15	V-2	-	-	0.000	WER444	MS	-	-	Weapon	DeMaes	-	-
1944-A17	2431348.94	1944 Sep 15 1037	A-4	-	18756	0.000	WER500	MF	U	-	Training	FE/VB161	-	-
1944-S72	2431333.50	1944 Sep	V-2	-	-	0.000	WER485	MS	-	-	Weapon	RocketTeam	-	-
1944-A18	2431349.25	1944 Sep 15 1754	A-4	-	18763	0.000	WER500	MF	U	-	Training	FE/VB161	-	-
1944-S101	2431349.50	1944 Sep 16?	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S102	2431349.50	1944 Sep 16?	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S105	2431349.99	1944 Sep 16 1150	A-4	-	18746	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S106	2431350.20	1944 Sep 16 1655	A-4	-	18750	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S103	2431349.50	1944 Sep 16	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S104	2431349.50	1944 Sep 16?	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S107	2431350.50	1944 Sep 17?	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S108	2431350.50	1944 Sep 17	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S109	2431350.94	1944 Sep 17 1036	A-4	-	18752	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S110	2431351.08	1944 Sep 17 1355	A-4	-	18754	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S111	2431350.50	1944 Sep 17?	V-2	-	-	0.000	WER444	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S113	2431351.92	1944 Sep 18 0958	A-4	-	18755	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S112	2431351.50	1944 Sep 18	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S114	2431351.95	1944 Sep 18 1048	A-4	-	18747	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S115	2431352.10	1944 Sep 18 1422	A-4	-	18766	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S116	2431352.18	1944 Sep 18 1625	A-4	-	18762	0.000	WER500	MS	-	-	Training	FE/VB161	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-S117	2431352.50	1944 Sep 19	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S118	2431353.09	1944 Sep 19 1411	A-4	-	18753	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S119	2431353.17	1944 Sep 19 1609	A-4	-	18764	0.000	WER500	MS	-	-	Training	FE/VB161	-	-
1944-S120	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S121	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S122	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S123	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S124	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S125	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S126	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S127	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S128	2431353.50	1944 Sep 20?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S129	2431354.80	1944 Sep 21 0711	A-4	-	18824	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S130	2431355.01	1944 Sep 21 1211	A-4	-	18822	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S131	2431355.81	1944 Sep 22 0726	A-4	-	18825	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S132	2431356.26	1944 Sep 22 1816	A-4	-	18826	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-A19	2431356.89	1944 Sep 23 0928	A-4	-	18823	0.000	WER836-1	MF	U	-	Training	FE/VB162	-	-
1944-S133	2431357.16	1944 Sep 23 1544	A-4	-	18821	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S134	2431357.27	1944 Sep 23 1826	A-4	-	18831	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S135	2431357.97	1944 Sep 24 1123	A-4	-	18827	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S136	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S137	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S138	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S139	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S140	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S141	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S142	2431358.50	1944 Sep 25?	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S73	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S74	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S75	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S76	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S77	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S78	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S79	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S80	2431333.50	1944 Sep	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S143	2431358.50	1944 Sep 25	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S144	2431358.91	1944 Sep 25 0956	A-4	-	18815	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S145	2431358.99	1944 Sep 25 1141	A-4	-	18808	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S146	2431359.19	1944 Sep 25 1631	A-4	-	18833	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S147	2431359.29	1944 Sep 25 1859	A-4	-	18807	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S148	2431359.31	1944 Sep 25 1925	A-4	-	18800	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S149	2431359.97	1944 Sep 26 1123	A-4	-	18802	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S150	2431360.05	1944 Sep 26 1317	A-4	-	18805	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S151	2431360.06	1944 Sep 26 1327	A-4	-	18806	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S152	2431360.31	1944 Sep 26 1932	A-4	-	18804	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S153	2431360.34	1944 Sep 26 2013	V-2	-	18770	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-A59	2431359.50	1944 Sep 26	V-2	-	-	0.000	WER444	MF	U	-	Weapon	DeMaes	-	-
1944-S156	2431360.93	1944 Sep 27 1015	V-2	-	18771	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S157	2431360.95	1944 Sep 27 1050	A-4	-	18837	0.000	WER836-1	MS	-	-	Training	FE/VB162	-	-
1944-S154	2431360.50	1944 Sep 27?	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S155	2431360.50	1944 Sep 27?	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S164	2431364.17	1944 Sep 30 1605	V-2	-	18774	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S165	2431364.37	1944 Sep 30 2048	V-2	-	18788	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S166	2431364.45	1944 Sep 30 2243	V-2	-	18794	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S167	2431364.91	1944 Oct 1 0946	V-2	-	18777	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S168	2431364.98	1944 Oct 1 1125	V-2	-	18772	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S169	2431365.01	1944 Oct 1 1218	V-2	-	18773	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S170	2431365.50	1944 Oct 2	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S324	2431365.50	1944 Oct 2?	V-2	-	-	0.000	WEHR	MS	-	-	Test	DeMaes	-	-
1944-S171	2431365.90	1944 Oct 2 0938	V-2	-	18778	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S172	2431365.93	1944 Oct 2 1019	V-2	-	18776	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S173	2431366.27	1944 Oct 2 1832	V-2	-	18796	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S174	2431366.30	1944 Oct 2 1908	V-2	-	18795	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S325	2431366.50	1944 Oct 3	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S326	2431366.50	1944 Oct 3	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S327	2431366.50	1944 Oct 3	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S328	2431366.50	1944 Oct 3	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S329	2431366.50	1944 Oct 3	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S330	2431367.38	1944 Oct 3 2100?	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	DeMaes	-	-
1944-S158	2431363.50	1944 Oct	V-2	-	-	0.000	WER836-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S175	2431367.50	1944 Oct 4	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S176	2431368.81	1944 Oct 5 0720	V-2	-	18799	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S177	2431368.82	1944 Oct 5 0738	V-2	-	18798	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S178	2431369.06	1944 Oct 5 1330	V-2	-	18792	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S179	2431369.12	1944 Oct 5 1453	V-2	-	18797	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S180	2431369.15	1944 Oct 5 1530	V-2	-	18803	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S181	2431369.27	1944 Oct 5 1831	V-2	-	18791	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S182	2431369.35	1944 Oct 5 2019	V-2	-	18790	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S159	2431363.50	1944 Oct	V-2	-	-	0.000	WER485-2	MS	-	-	Weapon	RocketTeam	-	-
1944-S183	2431369.50	1944 Oct 6	V-2	-	-	0.000	WER836-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S184	2431369.96	1944 Oct 6 1104	V-2	-	19041	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S185	2431370.08	1944 Oct 6 1354	V-2	-	19048	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S186	2431372.96	1944 Oct 9 1104	V-2	-	19045	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S187	2431373.05	1944 Oct 9 1307	V-2	-	19047	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S188	2431373.08	1944 Oct 9 1359	V-2	-	19039	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S189	2431373.14	1944 Oct 9 1527	V-2	-	19043	0.000	WER836-1	MS	-	-	Test	FE	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-S190	2431373.20	1944 Oct 9 1642	V-2	-	19042	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S191	2431373.91	1944 Oct 10 0955	V-2	-	19046	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S192	2431373.99	1944 Oct 10 1142	V-2	-	19040	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S193	2431374.02	1944 Oct 10 1231	V-2	-	19044	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S194	2431374.11	1944 Oct 10 1438	V-2	-	18810	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S195	2431374.20	1944 Oct 10 1643	V-2	-	18813	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S196	2431374.33	1944 Oct 10 2001	V-2	-	18809	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S197	2431374.91	1944 Oct 11 0952	V-2	-	18811	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S198	2431375.07	1944 Oct 11 1347	V-2	-	18816	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S199	2431375.19	1944 Oct 11 1634	V-2	-	18814	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S200	2431375.25	1944 Oct 11 1753	V-2	-	18818	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S160	2431376.85	1944 Oct 13 0830?	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S201	2431377.64	1944 Oct 14 0324	V-2	-	18812	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S203	2431377.72	1944 Oct 14 0511	V-2	-	18817	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S202	2431377.67	1944 Oct 14 0412	V-2	-	18819	0.000	WER836-1	MS	-	-	Test	FE	-	-
1944-S161	2431363.50	1944 Oct	V-2	-	-	0.000	WER485-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S162	2431363.50	1944 Oct	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S163	2431363.50	1944 Oct	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S204	2431379.50	1944 Oct 16	V-2	-	-	0.000	SS500	MS	-	-	Weapon	RocketTeam	-	-
1944-S205	2431383.50	1944 Oct 20	V-2	-	-	0.000	WER444	MS	-	-	Weapon	RocketTeam	-	-
1944-S206	2431383.50	1944 Oct 20	V-2	-	-	0.000	WER444	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S323	2431385.50	1944 Oct 22	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-A60	2431391.00	1944 Oct 27 1200	V-2	-	-	0.000	WER485	MF	U	-	Weapon	DeMaes	-	-
1944-S207	2431391.95	1944 Oct 28 1048	V-2	-	19487	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S208	2431393.08	1944 Oct 29 1353	V-2	-	19486	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S331	2431393.72	1944 Oct 30 0510?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S209	2431393.91	1944 Oct 30 0951	V-2	-	19484	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S210	2431394.15	1944 Oct 30 1541	V-2	-	19498	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S332	2431393.50	1944 Oct 30	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S333	2431393.50	1944 Oct 30	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S334	2431394.54	1944 Oct 31 0051?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S335	2431394.50	1944 Oct 31	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S336	2431394.50	1944 Oct 31	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S337	2431394.50	1944 Oct 31	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S338	2431394.50	1944 Oct 31	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S339	2431394.50	1944 Oct 31	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S217	2431394.96	1944 Oct 31 1057	V-2	-	19488	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S218	2431395.00	1944 Oct 31 1205	V-2	-	19491	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S219	2431395.23	1944 Oct 31 1731	V-2	-	19489	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S340	2431395.51	1944 Nov 1 0010?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S341	2431395.63	1944 Nov 1 0308?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S342	2431396.19	1944 Nov 1 1627?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S211	2431395.50	1944 Nov 1	V-2	-	-	0.000	SS500	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S212	2431395.50	1944 Nov 1	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S213	2431395.50	1944 Nov 1	V-2	-	-	0.000	WER485-3	MS	-	-	Weapon	DeMaes	RocketTeam	-
1944-S214	2431394.50	1944 Nov	V-2	-	-	0.000	WEHR	MS	-	-	Test	RocketTeam	-	-
1944-S215	2431394.50	1944 Nov	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S216	2431394.50	1944 Nov	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S220	2431395.94	1944 Nov 1 1027	V-2	-	19504	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S221	2431396.18	1944 Nov 1 1620	V-2	-	19490	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S222	2431396.88	1944 Nov 2 0914	V-2	-	19492	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S223	2431396.95	1944 Nov 2 1054	V-2	-	19493	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S224	2431397.49	1944 Nov 2 2350	V-2	-	19494	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S225	2431397.79	1944 Nov 3 0652	V-2	-	19496	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S226	2431399.18	1944 Nov 4 1614	V-2	-	19495	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S227	2431399.21	1944 Nov 4 1704	V-2	-	19497	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S343	2431399.52	1944 Nov 5 0031?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S344	2431399.56	1944 Nov 5 0130?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S345	2431399.74	1944 Nov 5 0540?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S346	2431399.87	1944 Nov 5 0850?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S228	2431399.88	1944 Nov 5 0906	V-2	-	19502	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S347	2431399.50	1944 Nov 5	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S229	2431400.06	1944 Nov 5 1333	V-2	-	19500	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S348	2431400.11	1944 Nov 5 1436?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S349	2431400.13	1944 Nov 5 1507?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S230	2431400.15	1944 Nov 5 1543	V-2	-	19501	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S350	2431400.82	1944 Nov 6 0740?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S231	2431400.30	1944 Nov 5 1906	V-2	-	19499	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S232	2431401.02	1944 Nov 6 1236	V-2	-	19508	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S233	2431401.94	1944 Nov 7 1028	V-2	-	19511	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S234	2431402.02	1944 Nov 7 1235	V-2	-	19514	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S235	2431402.17	1944 Nov 7 1602	V-2	-	19506	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S236	2431402.44	1944 Nov 7 2235	V-2	-	19507	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S237	2431403.00	1944 Nov 8 1202	V-2	-	19509	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S238	2431404.16	1944 Nov 9 1550	V-2	-	19520	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S239	2431404.90	1944 Nov 10 0931	V-2	-	19516	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S240	2431405.00	1944 Nov 10 1206	V-2	-	19518	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S351	2431405.01	1944 Nov 10 1215?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S352	2431406.50	1944 Nov 12	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S241	2431406.94	1944 Nov 12 1038	V-2	-	19528	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S242	2431407.10	1944 Nov 12 1428	V-2	-	19510	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S243	2431407.91	1944 Nov 13 0952	V-2	-	19512	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S244	2431408.01	1944 Nov 13 1210	V-2	-	19513	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S245	2431408.87	1944 Nov 14 0859	V-2	-	19525	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S246	2431408.96	1944 Nov 14 1109	V-2	-	19517	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S247	2431409.94	1944 Nov 15 1035	V-2	-	19549	0.000	WER271-1	MS	-	-	Test	FE	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-S248	2431410.00	1944 Nov 15 1202	V-2	-	19548	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S353	2431410.50	1944 Nov 16	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S354	2431410.50	1944 Nov 16	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S355	2431410.50	1944 Nov 16	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S356	2431411.50	1944 Nov 17	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S249	2431413.29	1944 Nov 18 1900	V-2	-	19544	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S357	2431413.50	1944 Nov 19	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S358	2431413.50	1944 Nov 19	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S250	2431413.93	1944 Nov 19 1014	V-2	-	19547	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S251	2431413.99	1944 Nov 19 1147	V-2	-	19545	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S252	2431414.91	1944 Nov 20 0946	V-2	-	19533	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S253	2431415.09	1944 Nov 20 1413	V-2	-	19550	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S254	2431415.16	1944 Nov 20 1548	V-2	-	19552	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S359	2431415.50	1944 Nov 21	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S255	2431415.87	1944 Nov 21 0848	V-2	-	19551	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S256	2431415.92	1944 Nov 21 1000	V-2	-	19546	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S257	2431416.10	1944 Nov 21 1426	V-2	-	19829	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S360	2431416.50	1944 Nov 22	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S258	2431416.98	1944 Nov 22 1135	V-2	-	19843	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S259	2431417.17	1944 Nov 22 1559	V-2	-	19830	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-A20	2431417.35	1944 Nov 22 2031	V-2	-	19832	0.000	WER271-1	MF	U	-	Test	FE/VB170	-	-
1944-S260	2431419.10	1944 Nov 24 1417	V-2	-	19833	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S261	2431419.21	1944 Nov 24 1657	V-2	-	19844	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-A21	2431419.33	1944 Nov 24 1956	V-2	-	19834	0.000	WER271-1	MF	U	-	Test	FE/VB170	-	-
1944-S361	2431418.50	1944 Nov 24	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-A22	2431419.96	1944 Nov 25 1106	V-2	-	19835	0.000	WER271-1	MF	U	-	Test	FE/VB170	-	-
1944-S362	2431419.97	1944 Nov 25 1111?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S262	2431421.07	1944 Nov 26 1339	V-2	-	19836	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S363	2431421.92	1944 Nov 27 1000?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S364	2431422.33	1944 Nov 27 2000?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S263	2431421.95	1944 Nov 27 1050	V-2	-	19831	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-A23	2431421.97	1944 Nov 27 1113	V-2	-	19840	0.000	WER271-1	MF	U	-	Test	FE/VB170	-	-
1944-S264	2431422.87	1944 Nov 28 0859	V-2	-	19827	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S265	2431423.94	1944 Nov 29 1032	V-2	-	19841	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S266	2431424.28	1944 Nov 29 1840	V-2	-	19825	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S272	2431424.97	1944 Nov 30 1119	V-2	-	19846	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S273	2431424.99	1944 Nov 30 1143	V-2	-	19849	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-S267	2431424.50	1944 Dec	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1944-S268	2431424.50	1944 Dec	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S269	2431424.50	1944 Dec	V-2	-	-	0.000	WER485-3	MS	-	-	Weapon	RocketTeam	-	-
1944-S270	2431424.50	1944 Dec	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1944-S271	2431424.50	1944 Dec	V-2	-	-	0.000	SS500	MS	-	-	Weapon	RocketTeam	-	-
1944-S274	2431425.98	1944 Dec 1 1134	V-2	-	19848	0.000	WER271-1	MS	-	-	Test	FE/VB170	-	-
1944-A24	2431426.33	1944 Dec 1 1952	V-2	-	19850	0.000	WER271-1	MF	U	-	Test	FE/VB170	-	-
1944-S275	2431430.00	1944 Dec 5 1206	V-2	-	19883	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S277	2431430.29	1944 Dec 5 1859	V-2	-	19905	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S276	2431430.18	1944 Dec 5 1616	V-2	-	19893	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S365	2431430.50	1944 Dec 6	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S366	2431430.50	1944 Dec 6	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S278	2431431.08	1944 Dec 6 1353	V-2	-	19913	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-A25	2431431.33	1944 Dec 6 1956	V-2	-	19891	0.000	WER271-1	MF	U	-	Test	FE	-	-
1944-S279	2431432.21	1944 Dec 7 1700	A-4	-	19874	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-S280	2431432.21	1944 Dec 7 1706	V-2	-	19901	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S281	2431433.02	1944 Dec 8 1224	V-2	-	19894	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S282	2431433.23	1944 Dec 8 1724	V-2	-	19888	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S367	2431433.50	1944 Dec 9	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S283	2431434.16	1944 Dec 9 1544	V-2	-	19900	0.000	WER271-1	MS	-	-	Test	FE	-	-
1944-S284	2431434.22	1944 Dec 9 1710	A-4	-	19020	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-S285	2431436.12	1944 Dec 11 1500	V-2	-	19856	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-S286	2431436.23	1944 Dec 11 1731	V-2	-	19858	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-S287	2431436.97	1944 Dec 12 1114	A-4	-	18783	0.000	WEHR	MS	-	-	Test	FE175	-	-
1944-A26	2431437.05	1944 Dec 12 1307	V-2	-	19855	0.000	WEHR	MF	U	-	Test	FE/VB171	-	-
1944-S288	2431437.38	1944 Dec 12 2104	V-2	-	19854	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-S289	2431437.90	1944 Dec 13 0940	V-2	-	19859	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-S290	2431437.99	1944 Dec 13 1145	V-2	-	19870	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-A27	2431438.06	1944 Dec 13 1320	V-2	-	19857	0.000	WEHR	MF	U	-	Test	FE/VB171	-	-
1944-S368	2431438.50	1944 Dec 14	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S369	2431438.50	1944 Dec 14	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-A28	2431439.13	1944 Dec 14 1512	V-2	-	19865	0.000	WEHR	MF	U	-	Test	FE/VB171	-	-
1944-S291	2431440.01	1944 Dec 15 1218	V-2	-	19847	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S292	2431440.98	1944 Dec 16 1129	V-2	-	19837	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S293	2431441.01	1944 Dec 16 1211	V-2	-	19838	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S370	2431441.05	1944 Dec 16 1315?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S371	2431441.12	1944 Dec 16 1455?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S294	2431441.92	1944 Dec 17 0958	V-2	-	19851	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S372	2431442.50	1944 Dec 18	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S295	2431444.01	1944 Dec 19 1217	V-2	-	19872	0.000	WEHR	MS	-	-	Test	FE/VB171	-	-
1944-A29	2431444.14	1944 Dec 19 1520	V-2	-	19828	0.000	WEHR	MF	U	-	Test	FE/VB173	-	-
1944-A30	2431444.87	1944 Dec 20 0847	V-2	-	19845	0.000	WEHR	MF	U	-	Test	FE/VB173	-	-
1944-S296	2431445.02	1944 Dec 20 1228	V-2	-	19852	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S297	2431445.23	1944 Dec 20 1729	V-2	-	19853	0.000	WEHR	MS	-	-	Test	FE/VB173	-	-
1944-S298	2431445.89	1944 Dec 21 0923	V-2	-	19186	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S299	2431445.95	1944 Dec 21 1043	V-2	-	19676	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S300	2431446.16	1944 Dec 21 1557	V-2	-	19778	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S373	2431447.50	1944 Dec 23?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S301	2431447.91	1944 Dec 23 0946	V-2	-	19886	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1944-S302	2431448.04	1944 Dec 23 1255	V-2	-	19674	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S303	2431448.11	1944 Dec 23 1436	V-2	-	19776	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S304	2431449.94	1944 Dec 25 1028	V-2	-	19650	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S305	2431450.00	1944 Dec 25 1155	V-2	-	19681	0.000	WEHR	MS	-	-	Test	FE/VB172	-	-
1944-S374	2431451.31	1944 Dec 26 1921?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-A31	2431451.50	1944 Dec 27	A-4b	-	-	0.000	WEHR	MF	U	-	Test	Stuhlinger	-	-
1944-S306	2431451.86	1944 Dec 27 0843	V-2	-	20853	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S375	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S376	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S377	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S378	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S379	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S380	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S381	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S382	2431452.50	1944 Dec 28	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-S307	2431452.86	1944 Dec 28 0834	V-2	-	20844	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S308	2431452.93	1944 Dec 28 1018	V-2	-	20845	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-A32	2431452.98	1944 Dec 28 1137	V-2	-	20848	0.000	WEHR	MF	U	-	Test	FE/VB174	-	-
1944-S309	2431455.19	1944 Dec 30 1627	V-2	-	20820	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S310	2431455.27	1944 Dec 30 1828	V-2	-	20816	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S311	2431456.03	1944 Dec 31 1244	V-2	-	20847	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S312	2431456.14	1944 Dec 31 1523	V-2	-	20825	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1944-S383	2431456.40	1944 Dec 31 2135?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1944-A62	2431455.50	1944 Dec 31	V-2	-	-	0.000	WEHR	MF	U	-	Weapon	DeMaes	-	-
1945-S01	2431455.50	1945 Jan	V-2	-	-	0.000	WER485-1	MS	-	-	Weapon	RocketTeam	-	-
1945-S02	2431455.50	1945 Jan	V-2	-	-	0.000	WER485-3	MS	-	-	Weapon	RocketTeam	-	-
1945-S03	2431455.50	1945 Jan	V-2	-	-	0.000	SS500	MS	-	-	Weapon	RocketTeam	-	-
1945-A01	2431457.12	1945 Jan 1 1450	V-2	-	20852	0.000	WEHR	MF	U	-	Test	FE/VB174	-	-
1945-S04	2431458.00	1945 Jan 2 1205	V-2	-	20815	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S05	2431458.15	1945 Jan 2 1535	V-2	-	20817	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S06	2431458.28	1945 Jan 2 1837	V-2	-	20818	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S38	2431458.78	1945 Jan 3 0645?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S07	2431459.01	1945 Jan 3 1219	V-2	-	20838	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S08	2431459.12	1945 Jan 3 1450	V-2	-	20841	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S09	2431459.21	1945 Jan 3 1705	V-2	-	20851	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S10	2431459.97	1945 Jan 4 1115	V-2	-	20823	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S39	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S40	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S41	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S42	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S43	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S44	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S45	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S46	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S47	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S48	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S49	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S50	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S51	2431459.50	1945 Jan 4	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-A02	2431459.99	1945 Jan 4 1143	V-2	-	20814	0.000	WEHR	MF	U	-	Test	FE/VB174	-	-
1945-S11	2431464.04	1945 Jan 8 1257	V-2	-	20843	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-S12	2431464.15	1945 Jan 8 1535	V-2	-	20819	0.000	WEHR	MS	-	-	Test	FE/VB174	-	-
1945-A40	2431463.50	1945 Jan 8	A-4b	-	1	0.000	WEHR	MF	U	-	Test	DeMaes	IMSG	-
1945-S13	2431466.01	1945 Jan 10 1219	A-4	-	20805	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S14	2431466.28	1945 Jan 10 1837	A-4	-	20808	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S15	2431466.31	1945 Jan 10 1922	A-4	-	20809	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S16	2431466.97	1945 Jan 11 1110	A-4	-	20810	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S17	2431467.00	1945 Jan 11 1155	A-4	-	20807	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S18	2431467.13	1945 Jan 11 1502	A-4	-	20811	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S19	2431467.13	1945 Jan 11 1512	A-4	-	20804	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S20	2431467.21	1945 Jan 11 1705	A-4	-	20806	0.000	WEHR	MS	-	-	Test	FE175	-	-
1945-S52	2431468.50	1945 Jan 13	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S53	2431475.87	1945 Jan 20 0847?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S54	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S55	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S56	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S57	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S58	2431475.97	1945 Jan 20 1110?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S59	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S60	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S61	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S62	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S63	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S64	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S65	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S66	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S67	2431475.50	1945 Jan 20	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S68	2431477.50	1945 Jan 22	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-M01	2431479.50	1945 Jan 24	A-4b	-	2	0.000	WEHR	MS	-	-	Test	DeMaes	IMSG	-
1945-S21	2431494.50	1945 Feb 8	V-2	-	-	0.000	WEHR	MU	-	-	Weapon	DeMaes	-	-
1945-S22	2431496.87	1945 Feb 10 0853?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S29	2431497.50	1945 Feb 11	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S69	2431499.50	1945 Feb 13	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S23	2431501.15	1945 Feb 14 1540	V-2	-	4299	0.000	WEHR	MU	-	-	Test	DeMaes	-	-
1945-S70	2431501.33	1945 Feb 14 1953?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S30	2431508.50	1945 Feb 22	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1945-S31	2431512.50	1945 Feb 26	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S71	2431513.50	1945 Feb 27	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S72	2431517.50	1945 Mar 3?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S32	2431521.55	1945 Mar 7 0115?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S33	2431522.96	1945 Mar 8 1057?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S34	2431523.50	1945 Mar 9	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S84	2431525.50	1945 Mar 11	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S25	2431530.50	1945 Mar 16	V-2	-	-	0.000	WER836	MS	-	-	Weapon	RocketTeam	-	-
1945-S85	2431530.52	1945 Mar 16 0029?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S86	2431531.66	1945 Mar 17 0355?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S87	2431532.35	1945 Mar 17 2021?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S24	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	RocketTeam	-
1945-S73	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S74	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S75	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S76	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S77	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S78	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S79	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S80	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S81	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S82	2431531.50	1945 Mar 17	V-2	-	-	0.000	WER902	MS	-	-	Weapon	DeMaes	-	-
1945-S88	2431532.50	1945 Mar 18	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S83	2431535.50	1945 Mar 21	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S89	2431535.90	1945 Mar 21 0934?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-A39	2431537.79	1945 Mar 23 0700	V-2	-	-	0.000	WEHR	MF	U	-	Weapon	DeMaes	-	-
1945-S35	2431540.37	1945 Mar 25 2055?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S36	2431541.50	1945 Mar 27	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S37	2431541.50	1945 Mar 27	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S90	2431541.50	1945 Mar 27	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S91	2431541.50	1945 Mar 27	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S92	2431541.72	1945 Mar 27 0515?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S93	2431542.12	1945 Mar 27 1449?	V-2	-	-	0.000	WEHR	MS	-	-	Weapon	DeMaes	-	-
1945-S26	2431542.36	1945 Mar 27 2043?	V-2	-	Last launch	0.000	WER485	MS	-	-	Weapon	DeMaes	RocketTeam	-
1945-S27	2431731.07	1945 Oct 2 1341:12	V-2	-	-	0.000	SPOG/AVKO	MS	-	-	Test	Stuhlinger	RocketTeam	-
1945-A08	2431733.05	1945 Oct 4 1313:33	V-2	-	-	0.000	SPOG/AVKO	MF	S1	-	Test	Stuhlinger	RocketTeam	-
1945-S28	2431744.09	1945 Oct 15 1406:26	V-2	-	-	0.000	SPOG/AVKO	MS	-	-	Test	Stuhlinger	RocketTeam	-
1946-A02	2431927.41	1946 Apr 16 2147	V-2	US	2	0.000	WSPG	SF	S1	APL/	Test/CR	Hermes-Rpt	-	-
1946-S01	2431951.39	1946 May 10 2115	V-2	US	3	0.000	WSPG	SS	-	APL/	CR	Hermes-Rpt	-	-
1946-S02	2431970.38	1946 May 29 2112	V-2	US	4	0.000	ORD/GEMTS	SS	-	APL/	CR	Hermes-Rpt	-	-
1946-S03	2431985.49	1946 Jun 13 2340	V-2	US	5	0.000	ORD/GEMTS	SS	-	NRL/Seddon?	Solar UV/Ionos	Hermes-Rpt	-	-
1946-S04	2432000.31	1946 Jun 28 1925	V-2	US	6	0.000	ORD/NRL	SS	-	NRL/Seddon,Tousey	Solar UV	Hermes-Rpt	PhysRev70,223	-
1946-S05	2432011.31	1946 Jul 9 1925	V-2	US	7	0.000	ORD/GEMTS	SS	-	NRL/Seddon	CR/Ionos	Hermes-Rpt	-	-
1946-A09	2432021.30	1946 Jul 19 1911	V-2	US	8	0.000	ORD/GEMTS	SF	S1	NRL/Seddon	Ionos	Hermes-Rpt	-	-
1946-S06	2432032.32	1946 Jul 30 1936	V-2	US	9	0.000	ORD/APL	SS	-	NRL/Seddon	CR/Ionos	Hermes-Rpt	-	-
1946-A10	2432048.25	1946 Aug 15 1800	V-2	US	10	0.000	ORD/PRIN	SF	S1	PRIN/Brinster?	CR/Ionos	Hermes-Rpt	-	-
1946-A11	2432055.22	1946 Aug 22 1715	V-2	US	11	0.000	ORD/AFCFS	SF	S1	UMI/AFCRL/Schultz	Aeron	Hermes-Rpt	-	-
1946-S07	2432104.25	1946 Oct 10 1802	V-2	US	12	0.000	ORD/NRL	SS	-	NRL/Seddon,Tousey	Solar UV	Hermes-Rpt	PhysRev70,776	-
1946-S08	2432118.30	1946 Oct 24 1915	V-2	US	13	0.000	ORD/APL	SS	-	APL/Hopfield?	Solar UV/CR	Hermes-Rpt	PhysRev73,877	-
1946-A26	2432132.35	1946 Nov 7 2031	V-2	US	14	0.000	ORD/PRIN	SF	S1	PRIN/Brinster?	CR	Hermes-Rpt	-	-
1946-S10	2432146.20	1946 Nov 21 1655	V-2	US	15	0.000	ORD/AFCFS	SS	-	UMI/AFCRL/Schultz	Aeron/Ionos	Hermes-Rpt	-	-
1946-S11	2432160.34	1946 Dec 5 2008	V-2	US	16	0.000	ORD/NRL	SS	-	NRL/	Solar UV	Hermes-Rpt	-	-
1946-S12	2432172.72	1946 Dec 18 0512:49	V-2	US	17	0.000	ORD/APL	SS	-	APL/AFCRL/Zwicky	CR/Meteor test	PASP59,32	Hermes-Rpt	-
1947-S01	2432196.38	1947 Jan 10 2113	V-2	US	18	0.000	ORD/NRL	SS	-	NRL/Perlow	CR	Hermes-Rpt	PhysRev71,325	-
1947-M01	2432209.52	1947 Jan 24 0022	V-2	US	19	0.000	ORD/GEMTS	SS	-	GEMTS/	Test	Hermes-Rpt	-	-
1947-S02	2432237.26	1947 Feb 20 1816	V-2	US	20	0.000	ORD/AFCFS	SS	-	UMI/AFCRL/Schultz	Ionos/Bio	Hermes-Rpt	-	-
1947-S03	2432252.27	1947 Mar 7 1823	V-2	US	21	0.000	ORD/NRL	SS	-	NRL/Seddon	Solar UV/CR/Ionos	Hermes-Rpt	-	-
1947-S04	2432277.34	1947 Apr 1 2010	V-2	US	22	0.000	ORD/APL	SS	-	APL/YERK/	Solar UV/CR	Hermes-Rpt	PhysRev73,877	-
1947-S05	2432284.51	1947 Apr 9 0010	V-2	US	23	0.000	ORD/APL	SS	-	APL/	Solar UV/CR	Hermes-Rpt	-	-
1947-S06	2432293.47	1947 Apr 17 2322	V-2	US	24	0.000	ORD/GEMTS	SS	-	SCEL/	Test/Aeron	Hermes-Rpt	-	-
1947-S07	2432321.46	1947 May 15 2308	V-2	US	26	0.000	ORD/NRL	SF	S1G	NRL/Seddon	Solar UV	Hermes-Rpt	-	-
1947-M04	2432335.60	1947 May 30 0230	Hermes II	-	B-1 No. 0	0.000	ORD	MF	S1	-	Test	Ulrich/Wire	RVA3	AASH15-335
1947-A13	2432377.30	1947 Jul 10 1918	V-2	US	29	0.000	ORD/NRL	SF	S1	NRL/	Aeron	Hermes-Rpt	-	-
1947-S08	2432396.04	1947 Jul 29 1255	V-2	US	30	0.000	ORD/APL	SS	-	APL/Gangnes,VanAllen	CR/Solar UV	Hermes-Rpt	PhysRev75,57	-
1947-A16	2432435.16	1947 Sep 6 1553	V-2	US	-	0.000	BUAERG	MF	S1G	BUAERG/Holt	Test	Rosen/AIAA2006-59451	-	-
1947-S09	2432468.30	1947 Oct 9 1915	V-2	US	27	0.000	ORD/GEMTS	SS	-	NRL/UMI/	Solar UV/Aeron	Hermes-Rpt	-	-
1947-S10	2432476.78	1947 Oct 18 0647	A-4	-	010T	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1947-S11	2432478.80	1947 Oct 20 0714	A-4	-	04T	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1947-A24	2432482.05	1947 Oct 23 1305	A-4	-	08T	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1947-S12	2432487.16	1947 Oct 28 1547	A-4	-	03T	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1947-A28	2432490.15	1947 Oct 31 1541	A-4	-	06T	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1947-S13	2432492.09	1947 Nov 2 1414	A-4	-	14N	0.000	GAU4	MS	-	FIAN/	Test	Z10	Delo	-
1947-A29	2432492.96	1947 Nov 3 1105	A-4	-	30N	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1947-S14	2432494.08	1947 Nov 4 1402	A-4	-	01T	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1947-A31	2432499.86	1947 Nov 10 0839	A-4	-	21N	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1947-S15	2432502.81	1947 Nov 13 0730	A-4	-	22N	0.000	GAU4	MS	-	FIAN/	Test	Z10	Delo	-
1947-S16	2432503.04	1947 Nov 13 1300	A-4	-	19N	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1947-A33	2432510.49	1947 Nov 20 2347	V-2	US	Special	0.000	GEMTS	MF	S1	GEMTS/	Test	Hermes-Rpt	-	-
1947-S17	2432528.40	1947 Dec 8 2142	V-2	US	28	0.000	ORD/AFAMC	SS	-	UMI/AFCRL/Schultz	Solar X/Aeron	Hermes-Rpt	PhysRev76,987	-
1948-S01	2432573.34	1948 Jan 22 2012	V-2	US	34	0.000	ORD/NRL	SS	-	NRL/Seddon	CR/Aeron	Hermes-Rpt	-	-
1948-S02	2432588.22	1948 Feb 6 1717	V-2	US	36	0.000	GEMTS	SS	-	GEMTS/	Test	Hermes-Rpt	-	-
1948-A02	2432630.47	1948 Mar 19 2310	V-2	US	39	0.000	ORD/GEMTS	SF	S1	SCEL/UMI/	Aeron/B field	Hermes-Rpt	-	-
1948-S04	2432644.07	1948 Apr 2 1347	V-2	US	25	0.000	ORD/UMI	SS	-	UMI/SCEL/NRL/	Aeron/Ionos/Solar UV	Hermes-Rpt	-	-
1948-M01	2432661.33	1948 Apr 19 1954	V-2	US	38	0.000	ORD/NRL	SF	S1	NRL/	Solar UV/Ionos	Hermes-Rpt	-	-
1948-S06	2432685.07	1948 May 13 1343	Bumper-WAC	-	Bumper 1	0.000	ORD	SS	-	ORD/	Test	Hermes-Rpt	-	-
1948-S07	2432699.09	1948 May 27 1415	V-2	US	35	0.000	ORD/APL	SS	-	APL/Gagnes,VanAllen	Solar UV/CR	Hermes-Rpt	PhysRev73,245	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1948-M02	2432713.93	1948 Jun 11 1022	V-2	US	37	0.000	ORD/AFCFS	SS	-	AFCRL/	Solar X/Ionos/Bio	Hermes-Rpt	-	-
1948-S09	2432759.25	1948 Jul 26 1803	V-2	US	40	0.000	ORD/APL	SS	-	UMI/APL/	CR/Aeron	Hermes-Rpt	-	-
1948-S10	2432769.00	1948 Aug 5 1207	V-2	US	43	0.000	ORD/NRL	SS	-	NRL/	Test/Solar UV,X	Hermes-Rpt	-	-
1948-A23	2432783.11	1948 Aug 19 1445	Bumper-WAC	-	Bumper 2	0.000	ORD	SF	S1P	ORD/	Test	Hermes-Rpt	-	-
1948-S12	2432797.54	1948 Sep 3 0100	V-2	US	33	0.000	ORD/UMI	SS	-	UMI/SCEL/	Aeron	Hermes-Rpt	-	-
1948-A30	2432811.50	1948 Sep 17	R-1	-	I-4	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1948-S13	2432825.15	1948 Sep 30 1530:09	Bumper-WAC	-	Bumper 3	0.000	ORD	SF	S2I	ORD/NRL/	Test/Solar SX	Hermes-Rpt	-	-
1948-S14	2432834.50	1948 Oct 10	R-1	-	I-1	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S15	2432837.50	1948 Oct 13	R-1	-	I-9	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S16	2432845.50	1948 Oct 21	R-1	-	I-6	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S17	2432847.50	1948 Oct 23	R-1	-	I-10	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S18	2432856.50	1948 Nov 1	R-1	-	I-3	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-A41	2432857.10	1948 Nov 1 1424:38	Bumper-WAC	-	Bumper 4	0.000	ORD/GEMTS	SF	S1P	ORD/NRL/	Test/Solar SX/Bio	Bumper4Rpt	Hermes-Rpt	-
1948-S20	2432858.50	1948 Nov 3	R-1	-	I-12	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S21	2432859.50	1948 Nov 4	R-1	-	I-2	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S22	2432860.50	1948 Nov 5	R-1	-	I-11	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1948-S23	2432874.44	1948 Nov 18 2235	V-2	US	44	0.000	ORD/GEMTS	SS	-	UMI/NRL/Tousey	Solar X/Biology	Hermes-Rpt	-	-
1948-S24	2432895.17	1948 Dec 9 1608	V-2	US	42	0.000	ORD/SCEL	SS	-	UMI/NRL/SCEL/	Aeron/Solar X/Bio	Hermes-Rpt	-	-
1949-A02	2432930.35	1949 Jan 13 2026	Hermes II	-	B-1 No. 1	0.000	ORD	MF	S1	ORD/	Test	AASH15-335	RVA3	-
1949-M01	2432945.22	1949 Jan 28 1720	V-2	US	45	0.000	ORD/NRL	SF	S1	NRL/AFCRL/Seddon	Solar X/Ionos/Aeron/Bio	Hermes-Rpt	PhysRev51,552	-
1949-S02	2432965.21	1949 Feb 17 1700	V-2	US	48	0.000	ORD/APL	SS	-	APL/NRL/VanAllen,Tousey	CR/Solar EUV/Bio	Hermes-Rpt	PhysRev84,791	-
1949-S03	2432972.43	1949 Feb 24 2222:44	Bumper-WAC	-	Bumper 5	0.000	ORD/GEMTS	SS	-	ORD/	Test	Bumper5Rpt	Hermes-Rpt	-
1949-S05	2432997.78	1949 Mar 22 0643	V-2	US	41	0.000	ORD/AFCFS	SS	-	AFCRL/BU/	Ionos/Aeron/Solar X	AFCRL	-	-
1949-S07	2433018.42	1949 Apr 11 2205	V-2	US	50	0.000	ORD/UMI	SU	-	UMI/SCEL/NRL/Tousey	Aeron/Solar X/Bio	Hermes-Rpt	-	-
1949-M02	2433028.51	1949 Apr 22 0017:16	Bumper-WAC	-	Bumper 6	0.000	ORD/GEMTS	SF	S2I	ORD/APL/NRL/	Test/CR/Solar SX	Bumper6RPt	Hermes-Rpt	-
1949-A14	2433042.14	1949 May 5 1515	V-2	US	46	0.000	ORD/GEMTS	SF	S1	NRL/	Solar EUV/X	Hermes-Rpt	-	-
1949-S09	2433043.59	1949 May 7 0212	R-1A	-	1	0.000	NII88A	MS	-	-	Test	Delo/p545	-	-
1949-S10	2433047.12	1949 May 10 1457	R-1A	-	2	0.000	NII88A	MS	-	-	Test	Delo/p545	-	-
1949-S11	2433051.58	1949 May 15 0148	R-1A	-	3	0.000	NII88A	MS	-	-	Test	Delo/p545	-	-
1949-S12	2433053.37	1949 May 16 2055	R-1A	-	4	0.000	NII88A	MS	-	-	Test	Delo/p545	-	-
1949-S13	2433060.53	1949 May 24 0040	R-1A	-	5	0.000	NII88A	MS	-	-	Test/Aeron	Delo/p545	-	-
1949-S14	2433064.53	1949 May 28 0050	R-1A	-	6	0.000	NII88A	MS	-	-	Test	Delo/p545	-	-
1949-S15	2433082.44	1949 Jun 14 2235	V-2	US	47	0.000	ORD/AFCFS	SS	-	AFCRL/UMI/WPAFB	Ionos/Solar X/Biology	Hermes-Rpt	-	-
1949-S19	2433169.50	1949 Sep 10	R-1	-	II-1	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S20	2433170.50	1949 Sep 11	R-1	-	II-2	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S21	2433172.50	1949 Sep 13	R-1	-	II-11	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S22	2433173.50	1949 Sep 14	R-1	-	II-4	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-A24	2433176.47	1949 Sep 16 2319	V-2	-	32	0.000	ORD/AFCFS	SF	S1	AFCRL/	Solar X/Ionos/Biology	AFCRL	-	-
1949-S23	2433176.50	1949 Sep 17	R-1	-	II-8	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S24	2433178.50	1949 Sep 19	R-1	-	II-5	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S25	2433179.50	1949 Sep 20	R-1	-	II-9	0.000	GAU4	MF	S1	-	Test	Z10	-	-
1949-S26	2433182.50	1949 Sep 23	R-1	-	II-15	0.000	GAU4	MF	S1	-	Test	Z10	-	-
1949-S27	2433184.97	1949 Sep 25 1116	R-2e	-	1	0.000	GAU4	MS	-	-	Test	Delo	-	-
1949-S28	2433187.50	1949 Sep 28	R-1	-	II-10	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-M07	2433189.21	1949 Sep 29 1658	V-2	US	49	0.000	ORD/NRL	SS	-	NRL/Friedman,Bryam	Solar X/Ionos/Meteorites	Hermes-Rpt	PhysRev83,1025	-
1949-S29	2433189.99	1949 Sep 30 1149	R-2e	-	2	0.000	GAU4	MS	-	-	Test	Delo	-	-
1949-S30	2433191.96	1949 Oct 2 1100	R-2e	-	3	0.000	GAU4	MF	S1	-	Test	Delo	-	-
1949-S31	2433192.50	1949 Oct 3	R-1	-	II-14	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-A26	2433195.50	1949 Oct 6	Hermes II	-	B-1 No. 2	0.000	ORD	SF	S1	US/	Test	RVA3	-	-
1949-S32	2433197.50	1949 Oct 8	R-1	-	II-16	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S33	2433197.75	1949 Oct 8 0605	R-2e	-	4	0.000	GAU4	MS	-	-	Test	Delo	-	-
1949-S34	2433199.50	1949 Oct 10	R-1	-	II-12	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S35	2433201.03	1949 Oct 11 1245	R-2e	-	5	0.000	GAU4	MF	S1	-	Test	Delo	-	-
1949-S36	2433201.50	1949 Oct 12	R-1	-	II-7	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S37	2433202.50	1949 Oct 13	R-1	-	II-13	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S38	2433202.50	1949 Oct 13	R-1	-	II-17	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S39	2433204.50	1949 Oct 15	R-1	-	II-19	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S40	2433207.50	1949 Oct 18	R-1	-	II-23	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S41	2433208.50	1949 Oct 19	R-1	-	II-22	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S42	2433211.50	1949 Oct 22	R-1	-	II-20	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S43	2433212.50	1949 Oct 23	R-1	-	II-3	0.000	GAU4	MS	-	-	Test	Z10	-	-
1949-S44	2433239.17	1949 Nov 18 1603	V-2	US	56	0.000	ORD/UMI	SS	-	UMI/SCEL/	Aeron/CR	Hermes-Rpt	-	-
1949-S46	2433259.30	1949 Dec 8 1915	V-2	US	31	0.000	ORD/AFCRL	SS	-	AFCRL/	Solar X/Ionos	Hermes-Rpt	-	-
1950-S02	2433330.25	1950 Feb 17 1801	V-2	US	53	0.000	ORD/NRL	SS	-	NRL/Tousey	Solar X/CR/Aeron	Hermes-Rpt	-	-
1950-M08	2433487.10	1950 Jul 24 1429	Bumper-WAC	-	Bumper 8	0.000	1GMR/GEMTS	SF	S1G	AOGMC/	Test	Hermes-Rpt	-	-
1950-M09	2433491.99	1950 Jul 29 1144	Bumper-WAC	-	Bumper 7	0.000	1GMR/GEMTS	SF	S1U	AOGMC/	Test	LRPGD-TR1 t	Hermes-Rpt	-
1950-S08	2433525.21	1950 Aug 31 1709	V-2	US	51	0.000	ORD/AFCRL	SS	-	AFCRL/BU/WAML/	Ionos/Solar X/Bio	Hermes-Rpt	-	-
1950-S13	2433575.50	1950 Oct 21	R-2	-	1	0.000	GAU4	MF	S1	-	Test	Delo	-	-
1950-S09	2433580.50	1950 Oct 26	R-2	-	2	0.000	GAU4	MS	-	-	Test	Z10	-	-
1950-A46	2433581.46	1950 Oct 26 2302	V-2	US	61	0.000	ORD/BRL	SF	S1	BRL/	Ionos/Meteorites	Hermes-Rpt	-	-
1950-S10	2433581.50	1950 Oct 27	R-2	-	3	0.000	GAU4	MS	-	-	Test	Z10	-	-
1950-S14	2433584.50	1950 Oct 30	R-2	-	4	0.000	GAU4	MS	-	-	Test	Z10	-	-
1950-S15	2433593.50	1950 Nov 8	R-2	-	5	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1950-S20	2433594.50	1950 Nov 9	Hermes II	-	B-1 No. 2A	0.000	ORD	MS	-	-	Test	RVA3	-	-
1950-S16	2433599.50	1950 Nov 14	R-2	-	6	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1950-S17	2433603.50	1950 Nov 18	R-2	-	7	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1950-S18	2433611.50	1950 Nov 26	R-2	-	8	0.000	GAU4	MF	S1	-	Test	Z10	Delo	-
1950-S22	2433626.50	1950 Dec 11	R-2	-	9	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1950-S23	2433627.50	1950 Dec 12	R-2	-	10	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1950-S24	2433631.50	1950 Dec 16	R-2	-	11	0.000	GAU4	MS	-	-	Test	Z10	Delo	-
1950-S28	2433635.50	1950 Dec 20	R-2	-	12	0.000	GAU4	MF	S1	-	Test	Delo	Z10	-
1951-A01	2433665.34	1951 Jan 18 2014	V-2	US	54	0.000	ORD/NRL	SF	S1	NRL/	Solar UV,X/CR	Hermes-Rpt	-	-
1951-S03	2433675.50	1951 Jan 29	R-1	-	IIIA-1	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S04	2433676.50	1951 Jan 30	R-1	-	IIIA-5	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S05	2433677.50	1951 Jan 31	R-1	-	IIIA-2	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S06	2433678.50	1951 Feb 1	R-1	-	IIIA-6	0.000	GAU4	MS	-	-	OT	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1951-S07	2433679.50	1951 Feb 2	R-1	-	IIIA-3	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-A06	2433714.64	1951 Mar 9 0316	V-2	US	57	0.000	ORD/AFCRL	SF	S1	AFCRL/BU/	Ionos/Solar X/Aeron/IR	AFCRL	-	-
1951-S10	2433810.50	1951 Jun 13	R-1	-	IIIB-11	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-A29	2433812.08	1951 Jun 14 1348	V-2	US	55	0.000	ORD/NRL	SF	S1	NRL/	Solar UV,X/CR	Hermes-Rpt	-	-
1951-S11	2433811.50	1951 Jun 14	R-1	-	IIIB-10	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S12	2433815.50	1951 Jun 18	R-1	-	IIIB-1	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S13	2433816.50	1951 Jun 19	R-1	-	IIIB-2	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S14	2433817.50	1951 Jun 20	R-1	-	IIIB-3	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S15	2433819.50	1951 Jun 22	R-1	-	IIIB-7	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S16	2433820.50	1951 Jun 23	R-1	-	IIIB-9	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S17	2433821.50	1951 Jun 24	R-1	-	IIIB-8	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S18	2433822.50	1951 Jun 25	R-1	-	IIIB-4	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S19	2433823.50	1951 Jun 26	R-1	-	IIIB-5	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-S20	2433824.50	1951 Jun 27	R-1	-	IIIB-14	0.000	GAU4	MS	-	-	OT	Z10	-	-
1951-A36	2433826.40	1951 Jun 28 2143	V-2	US	52	0.000	ORD/AFCRL	SF	S1	AFCRL/UCO/	Solar UV,X/Aeron	Hermes-Rpt	AFCRL	-
1951-S32	2433829.50	1951 Jul 2	R-2	-	II-1	0.000	GAU4	MS	-	-	Test	Delo/Siddiqi	-	-
1951-S21	2433831.50	1951 Jul 4	R-2	-	II-2	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S22	2433834.50	1951 Jul 7	R-2	-	II-3	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S23	2433836.50	1951 Jul 9	R-2	-	II-4	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S24	2433837.50	1951 Jul 10	R-2	-	II-5	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S25	2433838.50	1951 Jul 11	R-2	-	II-6	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S26	2433839.50	1951 Jul 12	R-2	-	II-7	0.000	GAU4	MF	S1	-	Test	Z10	Delo/Siddiqi	-
1951-S27	2433841.50	1951 Jul 14	R-2	-	II-8	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S28	2433843.50	1951 Jul 16	R-2	-	II-9	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S29	2433847.50	1951 Jul 20	R-2	-	II-10	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S33	2433849.50	1951 Jul 22	R-1V	-	1	0.000	NII88A	SS	-	IAM/	Test/Bio	Delo	-	-
1951-S30	2433850.50	1951 Jul 23	R-2	-	II-11	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S31	2433852.50	1951 Jul 25	R-2	-	II-12	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1951-S34	2433854.50	1951 Jul 27	R-2	-	II-13	0.000	GAU4	MS	-	-	Test	Delo/Siddiqi	-	-
1951-S35	2433856.50	1951 Jul 29	R-1B	-	1	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio	Delo	-	-
1951-S38	2433873.50	1951 Aug 15	R-1B	-	2	0.000	NII88A	SS	-	IAM/FIAN/	Test/Solar UV/Bio	Delo	-	-
1951-S39	2433877.50	1951 Aug 19	R-1V	-	2	0.000	NII88A	SS	-	IAM/	Test/Bio	Delo	-	-
1951-S41	2433886.50	1951 Aug 28	R-1B	-	3	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio	Delo	-	-
1951-S42	2433892.50	1951 Sep 3	R-1B	-	4	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio	Delo	-	-
1951-S40	2433881.29	1951 Aug 22 1900	V-2	US	TF1	0.000	ORD/SCEL	SS	-	SCEL/	Test	REUA	WSMR	-
1951-S44	2433949.38	1951 Oct 29 2104	V-2	US	60	0.000	ORD/SCEL	SS	-	UMI/SCEL/Jones,L	Aeron	WDCRF	WSMR	-
1952-S09	2434153.17	1952 May 20 1606	V-2	US	59/TF2	0.000	ORD/SCEL	SS	-	UMI/SCEL/Jones.L	Test/Photo/Aeron	AASH15-335	UM-HA-2	-
1952-S19	2434232.50	1952 Aug 8	R-2	-	KT-1	0.000	GAU4	MS	-	-	Test	Delo/Siddiqi	-	-
1952-S12	2434233.50	1952 Aug 9	R-2	-	KT-2	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S13	2434236.50	1952 Aug 12	R-2	-	KT-3	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S14	2434238.50	1952 Aug 14	R-2	-	KT-4	0.000	GAU4	MF	U	-	Test	Z10	Delo/Siddiqi	-
1952-S20	2434244.50	1952 Aug 20	R-1 8A11	-	No 220	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-S21	2434245.50	1952 Aug 21	R-1 8A11	-	No 105	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-M04	2434246.81	1952 Aug 22 0733	V-2	US	TF3	0.000	ORD/NRL	SS	-	NRL/	Test/Photo/Solar X/Aeron	WDCRF	AASH15-335	-
1952-S15	2434249.50	1952 Aug 25	R-2	-	KT-5	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S22	2434249.50	1952 Aug 25	R-1 8A11	-	No 320	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-S16	2434250.50	1952 Aug 26	R-2	-	KT-6	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S17	2434251.50	1952 Aug 27	R-2	-	KT-7	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S18	2434252.50	1952 Aug 28	R-2	-	KT-8	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S24	2434257.50	1952 Sep 2	R-2	-	KT-9	0.000	GAU4	MF	U	-	Test	Z10	Delo/Siddiqi	-
1952-S25	2434270.50	1952 Sep 15	R-2	-	KT-10	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S26	2434271.50	1952 Sep 16	R-2	-	KT-11	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S27	2434271.50	1952 Sep 16	R-2	-	KT-12	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S28	2434272.50	1952 Sep 17	R-2	-	KT-13	0.000	GAU4	MS	-	-	Test	Z10	Delo/Siddiqi	-
1952-S30	2434273.50	1952 Sep 18	R-2	-	KT-14	0.000	GAU4	MS	-	-	Test	Delo/Siddiqi	-	-
1952-A161	2434275.16	1952 Sep 19 1549	V-2	US	TF5	0.000	ORD/SCEL	SF	U	SCEL/UMI/	Test/CR	UARS	WSMR	-
1952-S42	2434300.50	1952 Oct 15	R-2R	-	RUD 1	0.000	GAU4	MS	-	-	Test	Z10	-	-
1952-S43	2434303.50	1952 Oct 18	R-2R	-	RUD 2	0.000	GAU4	MS	-	-	Test	Z10	-	-
1952-S44	2434304.50	1952 Oct 19	R-2R	-	RUD 3	0.000	GAU4	MS	-	-	Test	Z10	-	-
1952-S45	2434308.50	1952 Oct 23	R-2R	-	RUD 4	0.000	GAU4	MS	-	-	Test	Z10	-	-
1952-S46	2434312.50	1952 Oct 27	R-2R	-	RUD 5	0.000	GAU4	MS	-	-	Test	Z10	-	-
1952-S35	2434314.50	1952 Oct 29	R-1 8A11	-	No 420	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-S36	2434315.50	1952 Oct 30	R-1 8A11	-	No 501	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-S37	2434315.50	1952 Oct 30	R-1 8A11	-	No 520	0.000	GAU4	MS	-	-	OT	Z10	-	-
1952-S38	2434337.50	1952 Nov 21	R-1 8A11	-	No 620	0.000	GAU4	MS	-	-	OT	Z10	-	-
1953-S05	2434437.50	1953 Mar 1	R-1 8A11	-	No 1020	0.000	GAU4	MS	-	-	OT	Z10	-	-
1953-S06	2434441.50	1953 Mar 5	R-1 8A11	-	No 319	0.000	GAU4	MS	-	-	OT	Z10	-	-
1953-S07	2434455.50	1953 Mar 19	R-1 8A11	-	No 820	0.000	GAU4	MS	-	-	OT	Z10	-	-
1953-S17	2434508.50	1953 May 11	R-1 8A11	-	No 220	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S24	2434564.50	1953 Jul 6	R-1 8A11	-	No 420	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S41	2434618.50	1953 Aug 29	R-2	-	530-80-118	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S42	2434666.50	1953 Oct 16	R-1 8A11	-	No 820	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S43	2434667.50	1953 Oct 17	R-1 8A11	-	No 520	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S44	2434669.50	1953 Oct 19	R-1 8A11	-	No 320	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S45	2434670.50	1953 Oct 20	R-1 8A11	-	No 620	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S70	2434674.50	1953 Oct 24	R-2	-	530-90-220	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S46	2434676.50	1953 Oct 26	R-1 8A11	-	No 720	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S47	2434677.50	1953 Oct 27	R-1 8A11	-	No 1020	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S48	2434678.50	1953 Oct 28	R-1 8A11	-	No 920	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S49	2434678.50	1953 Oct 28	R-1 8A11	-	No 1220	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S61	2434693.50	1953 Nov 12	R-1 8A11	-	No 1120	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S63	2434696.50	1953 Nov 15	R-1 8A11	-	No 1320	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S65	2434705.50	1953 Nov 24	R-1 8A11	-	No 1520	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S36	2434720.50	1953 Dec 9	R-2	-	530-50-101	0.000	UZKA	MS	-	-	OT	Z10	-	-
1953-S37	2434732.50	1953 Dec 21	R-2	-	531-10-320	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S15	2434801.50	1954 Feb 28	R-2	-	531-20-420	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1954-S16	2434811.50	1954 Mar 10	R-2	-	531-20-520	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-
1954-S04	2434812.50	1954 Mar 11	R-1 8A11	-	No 1820	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S05	2434817.50	1954 Mar 16	R-1 8A11	-	No 1916	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S06	2434817.50	1954 Mar 16	R-1 8A11	-	No 1920	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S07	2434821.50	1954 Mar 20	R-1 8A11	-	No 1918	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S10	2434855.50	1954 Apr 23	R-1 8A11	-	No 1720	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S11	2434856.50	1954 Apr 24	R-1 8A11	-	No 1910	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S12	2434858.50	1954 Apr 26	R-1 8A11	-	No 1912	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S13	2434861.50	1954 Apr 29	R-1 8A11	-	No 2120	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S24	2434865.50	1954 May 3	R-1 8A11	-	No 1620	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S26	2434866.50	1954 May 4	R-1 8A11	-	No 1420	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S25	2434866.50	1954 May 4	R-1 8A11	-	No 2020	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S27	2434869.50	1954 May 7	R-1 8A11	-	No 220	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S21	2434874.50	1954 May 12	R-2	-	Prod. missile	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-
1954-S22	2434876.50	1954 May 14	R-2	-	Prod. missile	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-
1954-S23	2434877.50	1954 May 15	R-2	-	Prod. missile	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-
1954-S20	2434879.50	1954 May 17	R-2	-	Prod. missile	0.000	UZKA	MU	-	-	Test	Z10	Delo/Siddiqi	-
1954-S31	2434883.50	1954 May 21	R-1 8A11	-	No 120	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S33	2434889.10	1954 May 26 1424	A-1	-	Geophysical rocket	0.000	NII88A	SS	-	FIAN/??	Ionos	WDCRF	-	-
1954-S34	2434888.50	1954 May 26	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	Delo/Siddiqi	-
1954-S17	2434888.50	1954 May 26	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	Delo/Siddiqi	-
1954-S18	2434893.50	1954 May 31	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	Delo/Siddiqi	-
1954-S19	2434895.50	1954 Jun 2	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	Delo/Siddiqi	-
1954-S96	2434901.50	1954 Jun 8	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S97	2434902.50	1954 Jun 9	R-2	-	Prod. missile	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S36	2434904.50	1954 Jun 11	R-1 8A11	-	No 12-1953	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S37	2434905.50	1954 Jun 12	R-1 8A11	-	No 720-1952	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S38	2434907.50	1954 Jun 14	R-1 8A11	-	No 14-1951	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S40	2434920.06	1954 Jun 26 1324	R-1D	-	1	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio/Ionos/Aeron	Delo	-	-
1954-S41	2434925.50	1954 Jul 2	R-1D	-	2	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio/Ionos/Aeron	Delo	-	-
1954-S42	2434930.50	1954 Jul 7	R-1D	-	3	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio/Ionos/Aeron	Delo	-	-
1954-S98	2434945.50	1954 Jul 22	R-2	-	S0-6	0.000	UZKA	MS	-	-	R&D	Z10	-	-
1954-S61	2434956.50	1954 Aug 2	R-1 8A11	-	No 320	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S65	2434981.50	1954 Aug 27	R-1 8A11	-	No 520	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S66	2434981.50	1954 Aug 27	R-1 8A11	-	No 420	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S99	2435015.50	1954 Sep 30	R-2	-	K1-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S100	2435016.50	1954 Oct 1	R-2	-	K1-10	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S101	2435020.50	1954 Oct 5	R-2	-	K2-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S102	2435031.50	1954 Oct 16	R-2	-	K2-10	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S103	2435045.50	1954 Oct 30	R-1 8A11	-	D21-14	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S104	2435073.50	1954 Nov 27	R-2	-	K3-10	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S87	2435076.50	1954 Nov 30	R-1 8A11	-	No 1915 (1953)	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S105	2435077.50	1954 Dec 1	R-2	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S88	2435077.50	1954 Dec 1	R-1 8A11	-	No 620	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S106	2435082.50	1954 Dec 6	R-2	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-S107	2435085.50	1954 Dec 9	R-2	-	K3-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1954-S108	2435099.50	1954 Dec 23	R-2	-	-	0.000	UZKA	MS	-	-	Test	Z10	-	-
1954-A739	2435101.50	1954 Dec 25	R-2	-	-	0.000	UZKA	MF	U	-	Test	Z10	-	-
1955-S110	2435111.50	1955 Jan 4	R-2	-	409	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S115	2435122.50	1955 Jan 15	R-2	-	408	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S120	2435132.50	1955 Jan 25	R-2	-	403	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S07	2435132.50	1955 Jan 25	R-1E	-	1	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio	Delo	-	-
1955-S08	2435135.50	1955 Jan 28	R-1 8A11	-	No 720	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S09	2435136.50	1955 Jan 29	R-1 8A11	-	No 920	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S121	2435138.50	1955 Jan 31	R-2	-	402	0.000	UZKA	MS	-	-	Test	Z10	-	-
1955-S13	2435141.50	1955 Feb 3	R-1 8A11	-	No 820	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S15	2435143.50	1955 Feb 5	R-1E	-	2	0.000	NII88A	SS	-	IAM/FIAN/	Test/Bio	Delo	-	-
1955-S17	2435145.50	1955 Feb 7	R-1 8A11	-	No 1020	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S123	2435146.50	1955 Feb 8	R-2	-	K5-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S124	2435146.50	1955 Feb 8	R-2	-	K4-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S133	2435163.50	1955 Feb 25	R-2	-	K7-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S134	2435166.50	1955 Feb 28	R-2	-	K8-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-S135	2435167.50	1955 Mar 1	R-2	-	K6-20	0.000	UZKA	MS	-	-	OT	Z10	-	-
1955-A668	2435168.50	1955 Mar 2	R-2	-	K3-5D	0.000	UNRV	MF	U	-	OT	Z10	-	-
1955-S136	2435187.50	1955 Mar 21	R-2	-	K0-10	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S137	2435201.50	1955 Apr 4	R-2	-	K0-11	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S26	2435205.50	1955 Apr 8	R-1 8A11	-	No 410	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S28	2435206.50	1955 Apr 9	R-1 8A11	-	No 1811	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S29	2435209.50	1955 Apr 12	R-1 8A11	-	No 405	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S30	2435212.50	1955 Apr 15	R-1 8A11	-	No 215	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S138	2435245.50	1955 May 18	R-2	-	S1-20 TAD	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S139	2435247.50	1955 May 20	R-2	-	S2-20 TAD	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S140	2435255.50	1955 May 28	R-2	-	K8-12	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S141	2435258.50	1955 May 31	R-2	-	K2-9	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S142	2435259.50	1955 Jun 1	R-2	-	K6-9	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S45	2435276.50	1955 Jun 18	R-1 8A11	-	No 318	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S143	2435278.50	1955 Jun 20	R-2	-	S3-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S48	2435282.50	1955 Jun 24	R-1 8A11	-	No 305	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S144	2435286.50	1955 Jun 28	R-2	-	S6-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S145	2435303.50	1955 Jul 15	R-2	-	S0-1	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S54	2435308.50	1955 Jul 20	R-2	-	S0-3	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S57	2435313.50	1955 Jul 25	R-1 8A11	-	No 104	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S58	2435314.50	1955 Jul 26	R-1 8A11	-	No 119	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-A669	2435314.50	1955 Jul 26	R-2	-	S0-4	0.000	UNRV	MF	U	-	Test	Z10	-	-
1955-S59	2435317.50	1955 Jul 29	R-1 8A11	-	No 0427	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S63	2435320.50	1955 Aug 1	R-1 8A11	-	No 0430	0.000	UNRV	MS	-	-	OT	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-S146	2435322.50	1955 Aug 3	R-2	-	S7-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S62	2435324.50	1955 Aug 5	R-2	-	S0-2	0.000	UNRV	MS	-	-	Test	Z10	Delo	-
1955-S147	2435325.50	1955 Aug 6	R-2	-	406	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S148	2435327.50	1955 Aug 8	R-2	-	S0-5	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S65	2435343.50	1955 Aug 24	R-1 8A11	-	No 302	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S149	2435343.50	1955 Aug 24	R-2	-	S0-8	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S66	2435344.50	1955 Aug 25	R-1 8A11	-	No 0315	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S150	2435346.50	1955 Aug 27	R-2	-	S0-7	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S151	2435349.50	1955 Aug 30	R-2	-	S8-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S152	2435350.50	1955 Aug 31	R-2	-	S9-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S153	2435379.50	1955 Sep 29	R-2	-	S11-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S154	2435381.50	1955 Oct 1	R-2	-	S10-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S89	2435385.50	1955 Oct 5	R-1 8A11	-	No K1-17	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S91	2435388.50	1955 Oct 8	R-1 8A11	-	No K1-19	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S155	2435411.50	1955 Oct 31	R-2	-	S12-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S156	2435430.50	1955 Nov 19	R-2	-	S13-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S157	2435434.50	1955 Nov 23	R-2	-	S14-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S158	2435434.50	1955 Nov 23	R-2	-	415	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S159	2435457.50	1955 Dec 16	R-2	-	S15-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S160	2435458.50	1955 Dec 17	R-2	-	S16-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S161	2435465.50	1955 Dec 24	R-2	-	S18-10	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S162	2435468.50	1955 Dec 27	R-2	-	S17-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S163	2435469.50	1955 Dec 28	R-2	-	S19-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S164	2435471.50	1955 Dec 30	R-2	-	S19-19	0.000	UNRV	MS	-	-	OT	Z10	-	-
1955-S100	2435415.50	1955 Nov 4	R-1E	-	3	0.000	UNRV	SS	-	IAM/FIAN/	Bio	Delo	-	-
1956-S08	2435493.50	1956 Jan 21	R-1 8A11	-	No 101	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S114	2435496.50	1956 Jan 24	R-1 8A11	-	No 465	0.000	UNRV	MF	U	-	OT	Z10	-	-
1956-S11	2435516.50	1956 Feb 13	R-1 8A11	-	No 431	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S12	2435517.50	1956 Feb 14	R-1 8A11	-	No 453	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S118	2435520.50	1956 Feb 17	R-2	-	A1-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S122	2435541.50	1956 Mar 9	R-2	-	A2-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S21	2435560.50	1956 Mar 28	R-1 8A11	-	No 0316	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S23	2435579.50	1956 Apr 16	R-1 8A11	-	No 0317	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S123	2435592.50	1956 Apr 29	R-2	-	A3-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S124	2435601.50	1956 May 8	R-2	-	0105	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S125	2435601.50	1956 May 8	R-1UK	-	1T	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S126	2435603.50	1956 May 10	R-1UK	-	4T-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S127	2435609.50	1956 May 16	R-1UK	-	3T-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S35	2435624.62	1956 May 31 0257	R-1E	-	5	0.000	NII88A	SS	-	IAM/FIAN/	Bio/Solar UV	Delo	AASH9-191	-
1956-S128	2435630.50	1956 Jun 6	R-1UK	-	5T-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S38	2435631.50	1956 Jun 7	R-1E (A-1)	-	6	0.000	NII88A	SS	-	IAM/FIAN/	Bio	Delo	-	-
1956-S129	2435632.50	1956 Jun 8	R-1UK	-	2T-1	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S130	2435636.50	1956 Jun 12	R-1UK	-	7T-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S131	2435636.50	1956 Jun 12	R-1UK	-	6T-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S29	2435638.50	1956 Jun 14	R-1E	-	4	0.000	NII88A	SS	-	IAM/FIAN/	Bio	Delo	-	May14 In Delo
1956-S132	2435642.50	1956 Jun 18	R-1UK	-	8T-2	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S133	2435644.50	1956 Jun 20	R-1UK	-	10T-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S134	2435645.50	1956 Jun 21	R-1UK	-	9T-3	0.000	UNRV	MS	-	-	Test	Z10	-	-
1956-S49	2435654.50	1956 Jun 30	R-1 8A11	-	No 5112	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S135	2435666.50	1956 Jul 12	R-2	-	207	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-A72	2435674.50	1956 Jul 20	R-1 8A11	-	No 5301	0.000	UNRV	MF	U	-	OT	Z10	-	-
1956-S62	2435678.50	1956 Jul 24	R-1 8A11	-	No 0409	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S64	2435680.50	1956 Jul 26	R-1 8A11	-	No 0311	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S67	2435682.50	1956 Jul 28	R-1 8A11	-	No 0307	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S136	2435682.50	1956 Jul 28	R-2	-	A3-5	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S137	2435682.50	1956 Jul 28	R-2	-	S19-18	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S142	2435745.50	1956 Sep 29	R-2	-	A4-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S143	2435770.50	1956 Oct 24	R-1 8A11	-	No 102	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S144	2435771.50	1956 Oct 25	R-1 8A11	-	No 103	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S145	2435771.50	1956 Oct 25	R-2	-	0310	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S146	2435771.50	1956 Oct 25	R-2	-	A3-10	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S147	2435772.50	1956 Oct 26	R-1 8A11	-	No 104	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S149	2435780.50	1956 Nov 3	R-2	-	A5-20	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S150	2435789.50	1956 Nov 12	R-1 8A11	-	No 303	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S156	2435813.50	1956 Dec 6	R-1 8A11	-	No 103?	0.000	UNRV	MS	-	-	OT	Z10	-	-
1956-S111	2435827.50	1956 Dec 20	A-1	-	-	0.000	NII88A	SS	-	FIAN/?	Ionos?	JCM	-	-
1957-S184	2435851.50	1957 Jan 13	R-1 8A11	-	No 0406	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S185	2435852.50	1957 Jan 14	R-1 8A11	-	No 0408	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S191	2435888.50	1957 Feb 19	R-1 8A11	-	No 0920	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S194	2435897.50	1957 Feb 28	R-2	-	M1-25	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S25	2435940.50	1957 Apr 12	R-2	?	-	0.000	NII88A	MS	-	-	Test	Delo	-	-
1957-S27	2435942.50	1957 Apr 14	R-2	?	-	0.000	NII88A	MS	-	-	Test	Delo	-	-
1957-S34	2435974.64	1957 May 16 0318	R-2A	-	No. 1	0.000	AN	SS	-	AN/	Test	WDCRF	-	-
1957-S36	2435982.50	1957 May 24	R-2A	-	No. 2	0.000	AN	SS	-	AN/	Test/Bio	WDCRF	-	-
1957-S200	2435987.50	1957 May 29	R-2	-	M2-25	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S201	2435990.50	1957 Jun 1	R-1 8A11	-	0418	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S202	2435990.50	1957 Jun 1	R-1 8A11	-	0419	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S203	2435994.50	1957 Jun 5	R-2	-	0405	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S204	2435996.50	1957 Jun 7	R-2	-	0406	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S38	2435996.50	1957 Jun 7	R-2	-	[These dubious?]	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S39	2435999.50	1957 Jun 10	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S42	2436011.50	1957 Jun 22	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S43	2436012.50	1957 Jun 23	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S47	2436017.50	1957 Jun 28	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S48	2436018.50	1957 Jun 29	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S54	2436023.50	1957 Jul 4	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S56	2436024.50	1957 Jul 5	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1957-S208	2436026.50	1957 Jul 7	R-2	-	0417RD	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S209	2436027.50	1957 Jul 8	R-1	-	52080416	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S210	2436028.50	1957 Jul 9	R-2	-	K2-5	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S211	2436028.50	1957 Jul 9	R-1	-	0415	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-A160	2436029.50	1957 Jul 10	R-1	-	0414	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S213	2436029.50	1957 Jul 10	R-2	-	0409	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-A161	2436032.50	1957 Jul 13	R-1	-	5208413	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S214	2436037.50	1957 Jul 18	R-2	-	0407	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S215	2436038.50	1957 Jul 19	R-2	-	0408	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S218	2436041.50	1957 Jul 22	R-2	-	0419	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-A162	2436043.50	1957 Jul 24	R-1	-	53010116	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S219	2436043.50	1957 Jul 24	R-2	-	0319RD	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S220	2436048.50	1957 Jul 29	R-2	-	0217RD	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S221	2436055.50	1957 Aug 5	R-2	-	0216	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S222	2436056.50	1957 Aug 6	R-2	-	0215	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S223	2436057.50	1957 Aug 7	R-2	-	K3-12	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S224	2436058.50	1957 Aug 8	R-2	-	K3-9	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S84	2436063.50	1957 Aug 13	R-2A	-	-	0.000	UNRV	SS	-	FIAN/?	Solar UV	AASH9-191	-	-
1957-S225	2436070.50	1957 Aug 20	R-2	-	K3-14	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S235	2436072.50	1957 Aug 22	R-2	-	K3-4	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S236	2436073.50	1957 Aug 23	R-2	-	K3-13	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S94	2436075.60	1957 Aug 25 0223	R-2A	-	No. 3	0.000	UNRV	SS	-	IAM/	Ionos/Bio	IGY36	Delo	-
1957-S237	2436077.50	1957 Aug 27	R-2	-	K3-7	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S238	2436077.50	1957 Aug 27	R-2	-	K3-2	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S239	2436077.50	1957 Aug 27	R-2	-	K3-1	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S103	2436081.73	1957 Aug 31 0530	R-2A	-	No. 4	0.000	UNRV	SS	-	IAM/	Ionos/Bio	IGY36	Delo	-
1957-S108	2436091.16	1957 Sep 9 1550	R-2A	-	No. 5	0.000	UNRV	SS	-	FIAN/?	Ionos/Bio	IGY36	Delo	-
1957-S244	2436102.50	1957 Sep 21	R-2	-	0410	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S245	2436102.50	1957 Sep 21	R-2	-	0412	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S246	2436103.50	1957 Sep 22	R-2	-	0411	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S247	2436104.50	1957 Sep 23	R-2	-	K3-15	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S248	2436110.50	1957 Sep 29	R-2	-	0414	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S249	2436111.50	1957 Sep 30	R-2	-	0413	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S250	2436112.50	1957 Oct 1	R-2	-	K2-11	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S251	2436113.50	1957 Oct 2	R-2	-	K3-11	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S252	2436117.50	1957 Oct 6	R-1	-	5108088419	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S253	2436117.50	1957 Oct 6	R-1	-	5108088423	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S254	2436123.50	1957 Oct 12	R-2	-	52120311	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S255	2436123.50	1957 Oct 12	R-2	-	52120312	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S256	2436124.50	1957 Oct 13	R-1	-	5108088422	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S257	2436124.50	1957 Oct 13	R-2	-	52120313	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S258	2436124.50	1957 Oct 13	R-2	-	K3-6	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S259	2436125.50	1957 Oct 14	R-1	-	0101	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S260	2436125.50	1957 Oct 14	R-1	-	5108088429	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S261	2436135.50	1957 Oct 24	R-1	-	53040818	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S262	2436135.50	1957 Oct 24	R-1	-	53091511	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S263	2436135.50	1957 Oct 24	R-1	-	53081319	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S264	2436137.50	1957 Oct 26	R-2	-	53050110	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S265	2436138.50	1957 Oct 27	R-2	-	52120309	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S266	2436146.50	1957 Nov 4	R-2	-	52120308	0.000	UNRV	MS	-	-	OT	Z10	-	-
1957-S167	2436152.20	1957 Nov 9 1654	A-1	-	-	0.000	MVS	SS	-	FIAN/	Ionos/Aeron	WDCRF	-	-
1958-S304	2436213.50	1958 Jan 10	R-1	-	53030610	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S305	2436213.50	1958 Jan 10	R-1	-	53071201	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S306	2436214.50	1958 Jan 11	R-1	-	53091713	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S307	2436220.50	1958 Jan 17	R-2	-	53120317	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S308	2436234.50	1958 Jan 31	R-1	-	D2111	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S309	2436245.50	1958 Feb 11	R-1	-	519088433	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S310	2436254.50	1958 Feb 20	R-2	-	K3-18	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S312	2436348.50	1958 May 25	R-1	-	K6-7	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S313	2436348.50	1958 May 25	R-1	-	K2-19	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S314	2436350.50	1958 May 27	R-1	-	K9-9	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S315	2436350.50	1958 May 27	R-1	-	K1-3	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S91	2436386.71	1958 Jul 2 0500	R-2A	?	-	0.000	AN	SS	-	AN/	CR	WDCRF	-	-
1958-S316	2436388.50	1958 Jul 4	R-2	-	52120418	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S317	2436388.50	1958 Jul 4	R-1	-	52080408	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S318	2436392.50	1958 Jul 8	R-2	-	52120416	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S331	2436392.50	1958 Jul 8	R-2	-	52120415	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S332	2436392.50	1958 Jul 8	R-1	-	52080407	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S333	2436392.50	1958 Jul 8	R-1	-	52080410	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S335	2436399.50	1958 Jul 15	R-1	-	52080411	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S336	2436399.50	1958 Jul 15	R-2	-	52120417	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S337	2436408.50	1958 Jul 24	R-1	-	51120504	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S338	2436408.50	1958 Jul 24	R-1	-	51120106	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S339	2436409.50	1958 Jul 25	R-1	-	51120107	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-A215	2436413.50	1958 Jul 29	R-2	-	51120301	0.000	UNRV	MF	U	-	OT	Z10	-	-
1958-S343	2436413.50	1958 Jul 29	R-2	-	51120303	0.000	UNRV	MF	U	-	OT	Z10	-	-
1958-S114	2436416.50	1958 Aug 1	R-2	-	53120416RD	0.000	UNRV	MS	-	-	Target	Z10	MS5-65	-
1958-S133	2436417.74	1958 Aug 2 0547	R-2A	-	No. 6	0.000	MVS	SS	-	FIAN/IAM/	Ionos/Bio	IGY36	Delo,Z10	-
1958-S136	2436422.50	1958 Aug 7	R-2	-	S13-11D	0.000	UNRV	MS	-	-	Target	Z10	MS5-65	-
1958-S159	2436428.58	1958 Aug 13 0200	R-2A	-	No. 7	0.000	AN	SS	-	AN/	Ionos/Bio	IGY36	Z10	-
1958-S344	2436431.50	1958 Aug 16	R-1	-	52090501	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S164	2436432.50	1958 Aug 17	R-2	-	53120418RD	0.000	UNRV	MS	-	-	Target	Z10	MS5-65	-
1958-S167	2436442.50	1958 Aug 27	R-2	-	S13-15D	0.000	UNRV	MS	-	-	Target	Z10	MS5-65	-
1958-S345	2436447.50	1958 Sep 1	R-2	-	M2-18	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S346	2436447.50	1958 Sep 1	R-2	-	K3-3	0.000	UNRV	MS	-	-	OT	Z10	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1958-S347	2436454.50	1958 Sep 8	R-1	-	D2115	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S348	2436454.50	1958 Sep 8	R-2	-	M2-3D	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S349	2436459.50	1958 Sep 13	R-2	-	K2-16	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S350	2436462.50	1958 Sep 16	R-2	-	A3-6	0.000	UNRV	MS	-	-	OT	Z10	-	-
1958-S351	2436462.50	1958 Sep 16	R-2	-	A3-6 (DUP?)	0.000	UNRV	MF	U	-	OT	Z10	-	-
1958-S227	2436491.50	1958 Oct 15	R-2	-	-	0.000	UNRV	MS	-	-	Target	MS5-65	-	-
1959-S296	2436597.50	1959 Jan 29	R-2	-	53060204	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S297	2436597.50	1959 Jan 29	R-1	-	D217	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S313	2436692.50	1959 May 4	R-2	-	S6-2	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S314	2436701.50	1959 May 13	R-2	-	S9-4	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S315	2436706.50	1959 May 18	R-2	-	S6-1	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S316	2436709.50	1959 May 21	R-2	-	S2-1	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S317	2436709.50	1959 May 21	R-2	-	S2-1	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S318	2436710.50	1959 May 22	R-2	-	S2-9	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S324	2436720.50	1959 Jun 1	R-2	-	S2-7	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S325	2436724.50	1959 Jun 5	R-2	-	S2-4	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S326	2436725.50	1959 Jun 6	R-2	-	S6-3	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S327	2436730.50	1959 Jun 11	R-2	-	S2-3	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S328	2436730.50	1959 Jun 11	R-2	-	S2-8	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S333	2436734.50	1959 Jun 15	R-2	-	S2-2	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S334	2436735.50	1959 Jun 16	R-2	-	S2-6	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S339	2436739.50	1959 Jun 20	R-1	-	54010808	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S340	2436739.50	1959 Jun 20	R-1	-	54010809	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S103	2436751.78	1959 Jul 2 0640	R-2A	-	No. 9	0.000	MVS	SS	-	FIAN/	Ionos/Aeron/Bio	JCM	Z10	-
1959-S335	2436752.50	1959 Jul 3	R-2	-	S3-1	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S336	2436757.50	1959 Jul 8	R-2	-	S2-12	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S337	2436757.50	1959 Jul 8	R-2	-	S2-18	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S338	2436758.50	1959 Jul 9	R-2	-	S2-14	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S107	2436759.70	1959 Jul 10 0447	R-2A	-	No. 10	0.000	MVS	SS	-	FIAN/	Solar UV/Bio	AASH9-191	Z10	-
1959-S345	2436762.50	1959 Jul 13	R-2	-	S2-19	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S346	2436762.50	1959 Jul 13	R-2	-	S3-2	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S347	2436763.50	1959 Jul 14	R-2	-	S2-17	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S348	2436763.50	1959 Jul 14	R-2	-	S3-4	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S108	2436763.65	1959 Jul 14 0340	R-2A	-	-	0.000	MVS	SS	-	FIAN/	Ionos/Aeron	WDCRF	-	-
1959-S349	2436765.50	1959 Jul 16	R-2	-	S2-13	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S350	2436765.50	1959 Jul 16	R-2	-	S2-16	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S351	2436769.50	1959 Jul 20	R-2	-	53060119	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S352	2436769.50	1959 Jul 20	R-2	-	S3-3	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S353	2436769.50	1959 Jul 20	R-2	-	S3-6	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S120	2436771.55	1959 Jul 22 0114	R-2A	?	[dup?]	0.000	MVS	SS	-	AN/	Ionos/Aeron	WDCRF	-	-
1959-S364	2436797.50	1959 Aug 17	R-1	-	53081418	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S387	2436881.50	1959 Nov 9	R-1	-	D21-10	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S388	2436892.50	1959 Nov 20	R-2	-	S3-9	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S389	2436892.50	1959 Nov 20	R-2	-	S3-14	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S390	2436898.50	1959 Nov 26	R-2	-	S3-16	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S391	2436898.50	1959 Nov 26	R-2	-	S3-12	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S392	2436899.50	1959 Nov 27	R-2	-	S3-13	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-A252	2436900.50	1959 Nov 28	R-2	-	S3-8	0.000	RVSN	MF	U	-	OT	Z10	-	-
1959-S393	2436925.50	1959 Dec 23	R-2	-	S4-6	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S411	2436926.50	1959 Dec 24	R-2	-	S4-7	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S412	2436926.50	1959 Dec 24	R-2	-	S4-13	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-A253	2436927.50	1959 Dec 25	R-2	-	S4-8	0.000	RVSN	MF	U	-	OT	Z10	-	-
1959-S413	2436930.50	1959 Dec 28	R-2	-	S4-12	0.000	RVSN	MS	-	-	OT	Z10	-	-
1959-S414	2436930.50	1959 Dec 28	R-2	-	S4-9	0.000	RVSN	MS	-	-	OT	Z10	-	-
1960-S465	2437078.50	1960 May 24	R-2	-	5306-0203	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S449	2437093.50	1960 Jun 8	R-1	-	5308-1414	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S126	2437100.61	1960 Jun 15 0243	R-2A	-	No. 12	0.000	RVSN	SS	-	AN/	Aeron/Ionos/Solar/Bio	WDCRF	AASH9-191	-
1960-S142	2437109.46	1960 Jun 23 2300	R-2A	-	No. 13	0.000	GURVO	SF	U	FIAN/	Ionos/Aeron/Bio	WDCRF	Z20	-
1960-S163	2437119.50	1960 Jul 4	R-2	-	[Dubious]	0.000	GURVO	MS	-	-	Target	MS5-65	-	-
1960-S166	2437121.50	1960 Jul 6	R-2	-	M2-7D	0.000	GURVO	MS	-	-	Target	Z20	MS5-65	-
1960-S466	2437129.50	1960 Jul 14	R-2	-	S10-1	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S467	2437130.50	1960 Jul 15	R-2	-	5307-0214	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S191	2437138.50	1960 Jul 23	R-2	-	M2-6D	0.000	GURVO	MS	-	-	Target	MS5-65	Z20	-
1960-S213	2437146.50	1960 Jul 31	R-2	-	M2-4D	0.000	GURVO	MS	-	-	Target	MS5-65	-	-
1960-S468	2437147.50	1960 Aug 1	R-2	-	M2-9D	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S471	2437156.50	1960 Aug 10	R-2	-	S10-2	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S472	2437156.50	1960 Aug 10	R-2	-	S10-3	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S469	2437157.50	1960 Aug 11	R-2	-	A1-2	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S470	2437158.50	1960 Aug 12	R-2	-	A1-1	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S473	2437177.50	1960 Aug 31	R-2	-	S10-7	0.000	GURVO	MS	-	-	OT	Z20	-	-
1960-S272	2437193.50	1960 Sep 16	R-2A	-	No. 10	0.000	AN	SS	-	AN/	Ionos/Aeron/Bio	WDCRF	-	-
1960-S281	2437200.37	1960 Sep 22 2056	R-2A	-	No. 11	0.000	RVSN	SS	-	FIAN/	Ionos/Aeron/Bio?	WDCRF	-	-
1960-S262	2437177.50	1960 Sep	R-2	-	-	0.000	GB5	MS	-	-	Test	Harvey	-	-
1960-S350	2437243.54	1960 Nov 5 0100	DF-1	-	-	0.000	GB5	MS	-	-	Test	Chang	Harvey	-
1960-S388	2437268.50	1960 Dec	DF-1	-	-	0.000	GB5	MS	-	-	Test	Harvey	-	-
1960-S389	2437268.50	1960 Dec	DF-1	-	-	0.000	GB5	MS	-	-	Test	Harvey	-	-
1960-S450	2437282.50	1960 Dec 14	R-1	-	D20-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S474	2437282.50	1960 Dec 14	R-2	-	5312-0507	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S451	2437283.50	1960 Dec 15	R-1	-	5304-0918	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S452	2437283.50	1960 Dec 15	R-1	-	5162-0467	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S475	2437283.50	1960 Dec 15	R-2	-	S17-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S453	2437284.50	1960 Dec 16	R-1	-	5205-0219	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S454	2437284.50	1960 Dec 16	R-1	-	5205-0505	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S476	2437284.50	1960 Dec 16	R-2	-	S14-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S477	2437284.50	1960 Dec 16	R-2	-	S18-1	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S478	2437285.50	1960 Dec 17	R-2	-	S16-1	0.000	RVSN	MS	-	-	OT	Z20	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S455	2437287.50	1960 Dec 19	R-1	-	5310-1903	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S456	2437287.50	1960 Dec 19	R-1	-	5309-1519	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S457	2437287.50	1960 Dec 19	R-1	-	5302-0304	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S458	2437287.50	1960 Dec 19	R-1	-	5303-0606	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S479	2437288.50	1960 Dec 20	R-2	-	S12-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S480	2437288.50	1960 Dec 20	R-2	-	S10-4	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S459	2437289.50	1960 Dec 21	R-1	-	5303-0717	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S481	2437292.50	1960 Dec 24	R-2	-	S9-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S460	2437294.50	1960 Dec 26	R-1	-	5307-1301	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S461	2437294.50	1960 Dec 26	R-1	-	5212-0901	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S482	2437294.50	1960 Dec 26	R-2	-	5309-0312	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S483	2437294.50	1960 Dec 26	R-2	-	S15-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S484	2437294.50	1960 Dec 26	R-2	-	S11-1	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S485	2437296.50	1960 Dec 28	R-2	-	5212-0302	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S486	2437296.50	1960 Dec 28	R-2	-	S8-1	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S487	2437296.50	1960 Dec 28	R-2	-	S1-2	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S462	2437297.50	1960 Dec 29	R-1	-	5303-0801	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S463	2437297.50	1960 Dec 29	R-1	-	5307-1204	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S464	2437298.50	1960 Dec 30	R-1	-	5309-1608	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-S488	2437298.50	1960 Dec 30	R-2	-	S7-7	0.000	RVSN	MS	-	-	OT	Z20	-	-
1960-A376	2437298.50	1960 Dec 30	R-2	-	5305-0107	0.000	RVSN	MF	U	-	OT	Z20	-	-
1961-S481	2437302.50	1961 Jan 3	R-1	-	5309-1707	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S482	2437302.50	1961 Jan 3	R-1	-	5303-0802	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S483	2437302.50	1961 Jan 3	R-1	-	5302-0501	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S484	2437302.50	1961 Jan 3	R-1	-	5310-1801	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S489	2437302.50	1961 Jan 3	R-2	-	5306-0201	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S490	2437302.50	1961 Jan 3	R-2	-	5311-0414	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S485	2437304.50	1961 Jan 5	R-1	-	5212-0801	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S486	2437304.50	1961 Jan 5	R-1	-	5206-0303	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S487	2437304.50	1961 Jan 5	R-1	-	5210-0601	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S488	2437304.50	1961 Jan 5	R-1	-	5212-1001	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S491	2437305.50	1961 Jan 6	R-2	-	S4-5D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S492	2437468.50	1961 Jun 18	R-2	-	S8-14	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S493	2437468.50	1961 Jun 18	R-2	-	S8-8	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S494	2437469.50	1961 Jun 19	R-2	-	S8-19	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S495	2437471.50	1961 Jun 21	R-2	-	S8-17	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S496	2437472.50	1961 Jun 22	R-2	-	S8-2	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S497	2437476.50	1961 Jun 26	R-2	-	S8-16	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S498	2437477.50	1961 Jun 27	R-2	-	S8-3	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S499	2437478.50	1961 Jun 28	R-2	-	S10-6	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S500	2437479.50	1961 Jun 29	R-2	-	S10-11D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S501	2437480.50	1961 Jun 30	R-2	-	S10-15D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S502	2437491.50	1961 Jul 11	R-2	-	S9-13	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S503	2437493.50	1961 Jul 13	R-2	-	S9-12	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S504	2437494.50	1961 Jul 14	R-2	-	S9-17	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S505	2437497.50	1961 Jul 17	R-2	-	S9-2	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S506	2437498.50	1961 Jul 18	R-2	-	S8-6	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S507	2437500.50	1961 Jul 20	R-2	-	S8-18	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S508	2437504.50	1961 Jul 24	R-2	-	S8-12	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S509	2437504.50	1961 Jul 24	R-2	-	S8-7	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S510	2437505.50	1961 Jul 25	R-2	-	S8-11D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S511	2437506.50	1961 Jul 26	R-2	-	S8-9	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S512	2437506.50	1961 Jul 26	R-2	-	S8-10D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S513	2437507.50	1961 Jul 27	R-2	-	S8-15D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S514	2437507.50	1961 Jul 27	R-2	-	S8-4	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S515	2437515.50	1961 Aug 4	R-2	-	S10-5D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S516	2437515.50	1961 Aug 4	R-2	-	S10-10D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S517	2437520.50	1961 Aug 9	R-2	-	S9-3	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S518	2437521.50	1961 Aug 10	R-2	-	S9-14	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S519	2437527.50	1961 Aug 16	R-2	-	S18-4	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S520	2437527.50	1961 Aug 16	R-2	-	S18-12	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S521	2437528.50	1961 Aug 17	R-2	-	S18-7	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S522	2437528.50	1961 Aug 17	R-2	-	S18-11D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S523	2437536.50	1961 Aug 25	R-2	-	S18-6	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S524	2437536.50	1961 Aug 25	R-2	-	S18-9	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S525	2437539.50	1961 Aug 28	R-2	-	S18-14	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S526	2437543.50	1961 Sep 1	R-2	-	S18-2	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S527	2437553.50	1961 Sep 11	R-2	-	S18-13	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S528	2437554.50	1961 Sep 12	R-2	-	S18-3	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S529	2437560.50	1961 Sep 18	R-2	-	S18-8	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S459	2437560.50	1961 Sep 18	R-2	-	K2-18	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S541	2437561.50	1961 Sep 19	R-2	-	S18-5D	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-A393	2437562.50	1961 Sep 20	R-2	-	K7-7	0.000	RVSN	MF	U	-	OT	Z20	-	-
1961-S542	2437567.50	1961 Sep 25	R-2	-	K5-4	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S543	2437569.50	1961 Sep 27	R-2	-	S16-6	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S544	2437570.50	1961 Sep 28	R-2	-	A3-8	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S545	2437571.50	1961 Sep 29	R-2	-	S12-7	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S546	2437574.50	1961 Oct 2	R-2	-	A4-1	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S547	2437581.50	1961 Oct 9	R-2	-	S12-18	0.000	RVSN	MS	-	-	OT	Z20	-	-
1961-S548	2437582.50	1961 Oct 10	R-2	-	A5-1	0.000	RVSN	MF	U	-	OT	Z20	-	-
1962-A35	2437744.50	1962 Mar 21	DF-2	-	1	0.000	GB5	MF	U	-	Test	Harvey	-	-
1962-S137	2437805.50	1962 May 21	R-2	-	-	0.000	GURVO	MS	-	-	Target	MS5-65	-	-
1964-S315	2438575.50	1964 Jun 29	DF-2	-	2	0.000	GB5	MS	-	-	Test	Harvey	-	-
1964-S337	2438585.50	1964 Jul 9	DF-2	-	3	0.000	GB5	MS	-	-	Test	Harvey	-	-
1964-S341	2438587.50	1964 Jul 11	DF-2	-	4	0.000	GB5	MS	-	-	Test	Harvey	-	-
1964-S821	2438576.50	1964 Q3?	DF-2	-	5	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-S465	2438651.62	1964 Sep 13 0257	A-1	-	-	0.000	GURVO	SS	-	FIAN/	Test	WDCRF	-	-
1965-S810	2438760.50	1965	DF-2	-	6	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1965-S811	2438760.50	1965	DF-2	-	7	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1965-S812	2438760.50	1965	DF-2	-	8	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1965-S813	2438760.50	1965?	DF-2	-	9	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1965-A236	2438760.50	1965?	DF-2	-	10	0.000	GB5	MF	U	-	Test	twitter/stoa1984	-	-
1966-S796	2439337.50	1966 Aug	DF-2	-	-	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1966-S797	2439337.50	1966 Aug?	DF-2	-	-	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1966-S798	2439368.50	1966 Sep?	DF-2	-	-	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1966-S799	2439368.50	1966 Sep?	DF-2	-	-	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1966-S800	2439368.50	1966 Sep	DF-2	-	-	0.000	GB5	MS	-	-	Test	twitter/stoa1984	-	-
1966-A594	2439405.50	1966 Oct 7	DF-2	-	-	0.000	PLA2AC	MS	-	-	Test	twitter/stoa1984	-	-
1966-S801	2439411.50	1966 Oct 13	DF-2	-	-	0.000	PLA2AC	MS	-	-	Test	twitter/stoa1984	-	-
1966-S802	2439414.50	1966 Oct 16	DF-2	-	-	0.000	PLA2AC	MS	-	-	Test	twitter/stoa1984	-	-
1966-S566	2439425.50	1966 Oct 27	DF-2A	-	-	0.000	PLA2AC	MS	-	-	Nuclear Test	Harvey	-	-
1971-S635	2441255.50	1971 Nov	DF-2	?	-	0.000	PLA2AC	MS	-	-	Test	NIE13-8-74	-	-
1974-S433	2442047.50	1974?	DF-2	?	-	0.000	PLA2AC	MS	-	-	Test	NIE13-8-74	-	-
1974-S434	2442047.50	1974?	DF-2	?	-	0.000	PLA2AC	MS	-	-	Test	NIE13-8-74	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1957-S08	2435857.50	1957 Jan 19	ZUR-215	-	V-300 S-25M	ZUR-215	-	-	-	GTsP-4	-	-	-	10	-	-
1960-A318	2437055.75	1960 May 1 0553	V-750	-	-	U-2 intercept	-	-	-	SVER	-	-	-	20	-	-
1997-M06	2450745.50	1997 Oct 24	Al Samoud	-	-	Test 5b	-	-	-	IRAQ	-	-	-	50?	-	-
1998-M04	2450865.06	1998 Feb 20 1323	Al Samoud	-	-	Test 20	-	-	-	IRAQ	-	-	-	50?	-	-
1998-A06	2450865.92	1998 Feb 21 1000	Al Samoud	-	-	Test 11	-	-	-	IRAQ	-	-	-	0?	-	-
1998-M05	2450902.50	1998 Mar 30	Al Samoud	-	-	Test 10	-	-	-	IRAQ	-	-	-	50?	-	-
1998-M06	2451036.90	1998 Aug 11 0940	Al Samoud	-	-	Test 44	-	-	-	IRAQ	-	-	-	50?	-	-
1998-A07	2451107.03	1998 Oct 20 1250	Al Samoud	-	-	Test 47	-	-	-	IRAQ	-	-	-	0?	-	-
1999-M04	2451299.50	1999 May 1	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
1999-M05	2451421.50	1999 Aug 31	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
1999-M06	2451426.68	1999 Sep 5 0415	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
1999-M07	2451535.50	1999 Dec 23	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
1999-M08	2451541.05	1999 Dec 28 1315	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M44	2451591.90	2000 Feb 17 0938	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M45	2451616.05	2000 Mar 12 1315	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M46	2451660.00	2000 Apr 25 1201	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M47	2451687.94	2000 May 23 1030	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M48	2451861.50	2000 Nov 13	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M49	2451863.50	2000 Nov 15	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M50	2451869.01	2000 Nov 20 1215	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2000-M51	2451890.85	2000 Dec 12 0830	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-M05	2451918.50	2001 Jan 9	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-M06	2451922.83	2001 Jan 13 0802	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-M07	2451923.94	2001 Jan 14 1039	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A07	2451930.98	2001 Jan 21 1125	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	0?	-	-
2001-A08	2451952.88	2001 Feb 12 0907	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	20?	-	-
2001-M08	2451956.87	2001 Feb 16 0846	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-M09	2451988.86	2001 Mar 20 0842	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A09	2451996.50	2001 Mar 28	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A10	2451997.50	2001 Mar 29	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	20?	-	-
2001-A11	2452057.50	2001 May 28	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	0?	-	-
2001-M10	2452058.50	2001 May 29	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-M11	2452101.63	2001 Jul 11 0314	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A12	2452102.65	2001 Jul 12 0340	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	0?	-	-
2001-M12	2452107.50	2001 Jul 17	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A13	2452141.67	2001 Aug 20 0359	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A14	2452142.50	2001 Aug 21	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A15	2452142.50	2001 Aug 21	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2001-A16	2452176.50	2001 Sep 24	Al Samoud	-	-	Test	-	-	-	IRAQ	-	-	-	50?	-	-
2015-A25	2457369.50	2015 Dec 13	Qahir-1	-	-	-	-	-	-	THUTH	-	-	-	20?	-	KhamisM AB
2015-A37	2457370.50	2015 Dec 14	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jizan
2015-A36	2457374.50	2015 Dec 18	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Najran
2015-A27	2457376.50	2015 Dec 20	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Mareb
2015-A34	2457376.50	2015 Dec 20	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jizan
2015-A23	2457377.50	2015 Dec 21	Qahir-1	-	-	-	-	-	-	SANAA	-	-	-	20?	-	Jizan AB
2015-A33	2457378.50	2015 Dec 22	Qahir-1	-	-	-	Aramco target	-	-	SANAA?	-	-	-	20?	-	Jizan
2015-A31	2457379.50	2015 Dec 23	Qahir-1	-	-	-	-	-	-	THUTH	-	-	-	20?	-	KhamisM AB
2015-A22	2457383.33	2015 Dec 26 2000	Qahir-1	-	Qahir-1	-	-	-	-	SADAH?	-	-	-	20?	-	Najran
2015-A28	2457383.50	2015 Dec 27	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Najran
2015-A32	2457385.50	2015 Dec 29	Qahir-1	-	-	-	Aramco target	-	-	SADAH?	-	-	-	20?	-	Jizan
2015-A24	2457386.50	2015 Dec 30	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jizan
2016-A19	2457388.50	2016 Jan 1	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Abha, SA
2016-A15	2457426.50	2016 Feb 8	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	KhamisM AB
2016-A16	2457426.50	2016 Feb 8	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	KhamisM AB
2016-A17	2457427.50	2016 Feb 9	Qahir-1	-	-	-	-	-	-	SANAA	-	-	-	20?	-	Jizan AB
2016-A18	2457430.50	2016 Feb 12	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jizan AB
2016-A24	2457432.28	2016 Feb 13 1845	Qahir-1	?	-	-	[Alleged Scud]	-	-	THUTH	-	-	-	20?	-	Abha AB
2016-A13	2457439.50	2016 Feb 21	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jawf
2016-A14	2457442.50	2016 Feb 24	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jawf
2016-A09	2457451.50	2016 Mar 4	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jawf
2016-A10	2457452.50	2016 Mar 5	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Jawf
2016-A06	2457455.50	2016 Mar 8	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Khub,Jawf
2016-A07	2457456.50	2016 Mar 9	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Mareb
2016-A08	2457457.50	2016 Mar 10	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Mareb
2016-A30	2457482.50	2016 Apr 4	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Al-Nasr
2016-A32	2457483.50	2016 Apr 5	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Al-Rahinah
2016-A33	2457485.50	2016 Apr 7	Qahir-1	-	-	-	-	-	-	SADAH?	-	-	-	20?	-	Mareb
2016-A102	2457517.50	2016 May 9	Qahir-1	-	-	-	-	-	-	SADAH	-	-	-	20?	-	KhamisM A
2016-A103	2457517.50	2016 May 9	Qahir-1	-	-	-	-	-	-	THUTH	-	-	-	20?	-	Abha AB
2016-A35	2457538.50	2016 May 30	Qahir-1	?	-	-	-	-	-	SADAH?	-	-	-	20?	-	Najran
2016-A54	2457566.50	2016 Jun 27	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2016-A67	2457594.50	2016 Jul 25	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Asir
2016-A71	2457610.50	2016 Aug 10	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2016-A72	2457614.50	2016 Aug 14	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2016-A77	2457624.50	2016 Aug 24	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Mareb
2016-A78	2457630.50	2016 Aug 30	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Asir
2016-A79	2457631.50	2016 Aug 31	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Aramco,Jizan
2016-A85	2457643.50	2016 Sep 12	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2016-A89	2457719.50	2016 Nov 27	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2016-A99	2457744.50	2016 Dec 22	Al Samoud	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Lahj
2017-A27	2457799.50	2017 Feb 15	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2017-A31	2457806.50	2017 Feb 22	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	Bab-alMandeb
2017-A34	2457830.50	2017 Mar 18	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	Aramco,Jizan
2017-A35	2457833.50	2017 Mar 21	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2017-A36	2457840.50	2017 Mar 28	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2017-A37	2457840.50	2017 Mar 28	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-A38	2457840.50	2017 Mar 28	Qahir-M2	?	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2017-A41	2457848.50	2017 Apr 5	Al Samoud	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A43	2457855.50	2017 Apr 12	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A45	2457856.50	2017 Apr 13	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A46	2457867.50	2017 Apr 24	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jawf
2017-A47	2457872.50	2017 Apr 29	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2017-A52	2457886.50	2017 May 13	Al Samoud	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2017-A68	2457961.50	2017 Jul 27	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A69	2457954.50	2017 Jul 20	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A75	2457971.50	2017 Aug 6	Al Samoud	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2017-A87	2457998.50	2017 Sep 2	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2017-A92	2458020.50	2017 Sep 24	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	KMAB Asir
2017-A98	2458054.50	2017 Oct 28	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Najran
2017-A99	2458056.50	2017 Oct 30	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Dharan
2017-A109	2458064.50	2017 Nov 7	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Marib
2017-A119	2458103.50	2017 Dec 16	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2017-A121	2458105.50	2017 Dec 18	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jawf
2017-A122	2458106.50	2017 Dec 19	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jawf
2017-A123	2458111.50	2017 Dec 24	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Fardat Nehm
2017-A133	2458115.50	2017 Dec 28	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Marib
2018-A06	2458129.50	2018 Jan 11	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Najran
2018-A28	2458135.50	2018 Jan 17	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Najran
2018-A25	2458140.50	2018 Jan 22	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2018-A18	2458149.50	2018 Jan 31	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jawf
2018-A12	2458150.50	2018 Feb 1	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Marib
2018-A17	2458154.50	2018 Feb 5	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2018-A36	2458202.50	2018 Mar 25	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Abha
2018-A37	2458209.50	2018 Apr 1	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2018-A40	2458212.50	2018 Apr 4	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Marib
2018-A47	2458213.50	2018 Apr 5	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Najran
2018-A48	2458214.50	2018 Apr 6	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Najran
2018-A49	2458216.50	2018 Apr 8	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Asir
2018-A50	2458217.50	2018 Apr 9	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jizan
2018-A70	2458244.50	2018 May 6	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2018-A87	2458265.50	2018 May 27	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Taiz
2018-A88	2458268.50	2018 May 30	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Jawf
2018-A98	2458279.50	2018 Jun 10	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	W Coast
2018-A102	2458283.50	2018 Jun 14	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Hodeidah
2018-A108	2458289.50	2018 Jun 20	Qahir-1	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	Hodeidah
2018-A109	2458296.50	2018 Jun 27	Qahir-M2	-	-	-	-	-	-	YEMEN	-	-	-	20?	-	W Coast

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1957-S08	2435857.50	1957 Jan 19	ZUR-215	-	V-300 S-25M	0.000	RVSN	MS	-	-	Nuclear Test	www.fas.org	-	-
1960-A318	2437055.75	1960 May 1 0553	V-750	-	-	0.000	PRO	MS	-	-	Intercept	JCM	-	-
1997-M06	2450745.50	1997 Oct 24	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1998-M04	2450865.06	1998 Feb 20 1323	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1998-A06	2450865.92	1998 Feb 21 1000	Al Samoud	-	-	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
1998-M05	2450902.50	1998 Mar 30	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1998-M06	2451036.90	1998 Aug 11 0940	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1998-A07	2451107.03	1998 Oct 20 1250	Al Samoud	-	-	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
1999-M04	2451299.50	1999 May 1	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1999-M05	2451421.50	1999 Aug 31	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1999-M06	2451426.68	1999 Sep 5 0415	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1999-M07	2451535.50	1999 Dec 23	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
1999-M08	2451541.05	1999 Dec 28 1315	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M44	2451591.90	2000 Feb 17 0938	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M45	2451616.05	2000 Mar 12 1315	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M46	2451660.00	2000 Apr 25 1201	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M47	2451687.94	2000 May 23 1030	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M48	2451861.50	2000 Nov 13	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M49	2451863.50	2000 Nov 15	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M50	2451869.01	2000 Nov 20 1215	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2000-M51	2451890.85	2000 Dec 12 0830	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M05	2451918.50	2001 Jan 9	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M06	2451922.83	2001 Jan 13 0802	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M07	2451923.94	2001 Jan 14 1039	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A07	2451930.98	2001 Jan 21 1125	Al Samoud	-	-	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-A08	2451952.88	2001 Feb 12 0907	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M08	2451956.87	2001 Feb 16 0846	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M09	2451988.86	2001 Mar 20 0842	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A09	2451996.50	2001 Mar 28	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A10	2451997.50	2001 Mar 29	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A11	2452057.50	2001 May 28	Al Samoud	-	-	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-M10	2452058.50	2001 May 29	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-M11	2452101.63	2001 Jul 11 0314	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A12	2452102.65	2001 Jul 12 0340	Al Samoud	-	-	0.000	IQMIC	MF	U	-	Test	UNMOVIC	-	-
2001-M12	2452107.50	2001 Jul 17	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A13	2452141.67	2001 Aug 20 0359	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A14	2452142.50	2001 Aug 21	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A15	2452142.50	2001 Aug 21	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2001-A16	2452176.50	2001 Sep 24	Al Samoud	-	-	0.000	IQMIC	MS	-	-	Test	UNMOVIC	-	-
2015-A25	2457369.50	2015 Dec 13	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A37	2457370.50	2015 Dec 14	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A36	2457374.50	2015 Dec 18	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A27	2457376.50	2015 Dec 20	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A34	2457376.50	2015 Dec 20	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A23	2457377.50	2015 Dec 21	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A33	2457378.50	2015 Dec 22	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A31	2457379.50	2015 Dec 23	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A22	2457383.33	2015 Dec 26 2000	Qahir-1	-	Qahir-1	0.000	ANSAL	MS	-	-	Weapon	Wire	-	-
2015-A28	2457383.50	2015 Dec 27	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A32	2457385.50	2015 Dec 29	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2015-A24	2457386.50	2015 Dec 30	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A19	2457388.50	2016 Jan 1	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A15	2457426.50	2016 Feb 8	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A16	2457426.50	2016 Feb 8	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A17	2457427.50	2016 Feb 9	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A18	2457430.50	2016 Feb 12	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A24	2457432.28	2016 Feb 13 1845	Qahir-1	?	-	0.000	ANSAL	MS	-	-	Weapon	AFP	-	-
2016-A13	2457439.50	2016 Feb 21	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A14	2457442.50	2016 Feb 24	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A09	2457451.50	2016 Mar 4	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A10	2457452.50	2016 Mar 5	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A06	2457455.50	2016 Mar 8	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A07	2457456.50	2016 Mar 9	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A08	2457457.50	2016 Mar 10	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A30	2457482.50	2016 Apr 4	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A32	2457483.50	2016 Apr 5	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A33	2457485.50	2016 Apr 7	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A102	2457517.50	2016 May 9	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A103	2457517.50	2016 May 9	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A35	2457538.50	2016 May 30	Qahir-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A54	2457566.50	2016 Jun 27	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A67	2457594.50	2016 Jul 25	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A71	2457610.50	2016 Aug 10	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A72	2457614.50	2016 Aug 14	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A77	2457624.50	2016 Aug 24	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A78	2457630.50	2016 Aug 30	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A79	2457631.50	2016 Aug 31	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A85	2457643.50	2016 Sep 12	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A89	2457719.50	2016 Nov 27	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A99	2457744.50	2016 Dec 22	Al Samoud	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A27	2457799.50	2017 Feb 15	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A31	2457806.50	2017 Feb 22	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A34	2457830.50	2017 Mar 18	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A35	2457833.50	2017 Mar 21	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A36	2457840.50	2017 Mar 28	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A37	2457840.50	2017 Mar 28	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-A38	2457840.50	2017 Mar 28	Qahir-M2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A41	2457848.50	2017 Apr 5	Al Samoud	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A43	2457855.50	2017 Apr 12	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A45	2457856.50	2017 Apr 13	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A46	2457867.50	2017 Apr 24	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A47	2457872.50	2017 Apr 29	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A52	2457886.50	2017 May 13	Al Samoud	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A68	2457961.50	2017 Jul 27	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A69	2457954.50	2017 Jul 20	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A75	2457971.50	2017 Aug 6	Al Samoud	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A87	2457998.50	2017 Sep 2	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A92	2458020.50	2017 Sep 24	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A98	2458054.50	2017 Oct 28	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A99	2458056.50	2017 Oct 30	Qahir-M2	-	-	0.000	ANSAL	MF	U	-	Weapon	sabanews.net	-	-
2017-A109	2458064.50	2017 Nov 7	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A119	2458103.50	2017 Dec 16	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A121	2458105.50	2017 Dec 18	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A122	2458106.50	2017 Dec 19	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A123	2458111.50	2017 Dec 24	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A133	2458115.50	2017 Dec 28	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A06	2458129.50	2018 Jan 11	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A28	2458135.50	2018 Jan 17	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A25	2458140.50	2018 Jan 22	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A18	2458149.50	2018 Jan 31	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A12	2458150.50	2018 Feb 1	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A17	2458154.50	2018 Feb 5	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A36	2458202.50	2018 Mar 25	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A37	2458209.50	2018 Apr 1	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A40	2458212.50	2018 Apr 4	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A47	2458213.50	2018 Apr 5	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A48	2458214.50	2018 Apr 6	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A49	2458216.50	2018 Apr 8	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A50	2458217.50	2018 Apr 9	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A70	2458244.50	2018 May 6	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A87	2458265.50	2018 May 27	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A88	2458268.50	2018 May 30	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A98	2458279.50	2018 Jun 10	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A102	2458283.50	2018 Jun 14	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A108	2458289.50	2018 Jun 20	Qahir-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A109	2458296.50	2018 Jun 27	Qahir-M2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A99	2439698.50	1967 Jul 27	V-825	-	-	Dummy test	-	-	-	BALKH	-	-	-	0?	-	-
1971-A18	2440998.50	1971 Feb 16	V-825	-	-	Test	-	-	-	BALKH	-	-	-	25?	-	-
1973-A04	2441713.50	1973 Feb	V-825	-	-	Test	-	-	-	BALKH	-	-	-	25?	-	-
1976-S313	2443080.50	1976 Oct 29	V-825	-	-	Intercept	-	-	-	BALKH	-	-	-	180?	-	-
1977-S221	2443352.50	1977 Jul 28	V-825	-	-	Intercept	-	-	-	BALKH	-	-	-	180?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A99	2439698.50	1967 Jul 27	V-825	-	-	0.000	PRO	MF	U	-	ABM Test	Pervov-A	-	-
1971-A18	2440998.50	1971 Feb 16	V-825	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-
1973-A04	2441713.50	1973 Feb	V-825	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-
1976-S313	2443080.50	1976 Oct 29	V-825	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-
1977-S221	2443352.50	1977 Jul 28	V-825	-	-	0.000	PRO	MS	-	-	ABM Test	Pervov-A	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2012-006	2455970.92	2012 Feb 13 1000:00	Vega	-	VV01	LARES/AlmaSat	LARES	VEGA DEMO	-	CSG	ZLV	-	-	1453	-	-
2013-021	2456419.59	2013 May 7 0206:31	Vega	-	VV02	PROBA-V/VRNREDSAT	PROBA-V	VERTA 1	-	CSG	ZLV	-	-	828	-	-
2014-024	2456777.57	2014 Apr 30 0135:15	Vega	-	VV03	DZZ-HR	KazEOSat-1	VERTA 2	-	CSG	ZLV	-	-	753	-	-
2015-U01	2457065.07	2015 Feb 11 1340	Vega	-	VV04	IXV	IXV	VERTA 3	-	CSG	ZLV	-	-	-	-	-
2015-028	2457196.58	2015 Jun 23 0151:58	Vega	1	VV05	Sentinel-2A	Sentinel-2A	VERTA 4	-	CSG	ZLV	-	-	790	-	-
2015-070	2457359.67	2015 Dec 3 0404:01	Vega	1	VV06	LISA Pathfinder	LPF	VERTA 5	-	CSG	ZLV	-	-	150000	-	-
2016-058	2457647.57	2016 Sep 16 0143:35	Vega	1	VV07	Skysat 4-7/PeruSat	PeruSAT-1/Skysat 4-7	-	-	CSG	ZLV	-	-	700	-	-
2016-073	2457728.08	2016 Dec 5 1351	Vega	1	VV08	Gokturk-1	Gokturk-1	-	-	CSG	ZLV	-	-	691	-	-
2017-013	2457819.58	2017 Mar 7 0149:24	Vega	1	VV09	Sentinel-2B	Sentinel-2B	-	-	CSG	ZLV	-	-	793	-	-
2017-044	2457967.58	2017 Aug 2 0158:33	Vega	1	VV10	Optsat-3000/Venmus	Optsat-3000/Venmus	-	-	CSG	ZLV	-	-	726	-	-
2017-070	2458065.57	2017 Nov 8 0142:30	Vega	1	VV11	Mohammed VI-A	Mohammed VI-A	-	-	CSG	ZLV	-	-	640	-	-
2018-066	2458353.39	2018 Aug 22 2120:09	Vega	1	VV12	Aeolus	ADM-Aeolus	-	-	CSG	ZLV	-	-	323	-	-
2018-095	2458443.57	2018 Nov 21 0142:31	Vega	1	VV13	Mohammed VI-B	Mohammed VI-B	-	-	CSG	ZLV	-	-	36366	-	-
2019-015	2458564.58	2019 Mar 22 0150:35	Vega	1	VV14	PRISMA	PRISMA	-	-	CSG	ZLV	-	-	619	-	-
2019-F05	2458675.58	2019 Jul 11 0153:03	Vega	1	VV15	FalconEye 1	FalconEye 1	-	-	CSG	ZLV	-	-	75?	-	-
2020-061	2459095.58	2020 Sep 3 0151:10	Vega	1	VV16	SSMS	SSMS	-	-	CSG	ZLV	-	-	540	-	-
2020-U01	2459170.58	2020 Nov 17 0152:20	Vega	1	VV17	SEOSAT-Ingenio/Taranis	SEOSAT-Ingenio	-	-	CSG	ZLV	-	-	200?	-	-
2021-034	2459333.58	2021 Apr 29 0150:00	Vega	1	VV18	Pleiades Neo 3	Pleiades-Neo 3	-	-	CSG	ZLV	-	-	626	-	-
2021-073	2459443.57	2021 Aug 17 0147:06	Vega	1	VV19	Pleiades Neo 4	Pleiades-Neo 4	-	-	CSG	ZLV	-	-	625	-	-
2021-105	2459534.89	2021 Nov 16 0927:55	Vega	1	VV20	CERES 1-3	CERES 1-3	-	-	CSG	ZLV	-	-	676	-	-
2023-155	2460226.57	2023 Oct 9 0136:25	Vega	1	VV23	THEOS-2/TRITON	THEOS-2/TRITON	-	-	CSG	ZLV	-	-	-	-	-
2024-157	2460558.58	2024 Sep 5 0150:15	Vega	1	VV24	Sentinel-2C	Sentinel-2C	-	-	CSG	ZLV	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2012-006	2455970.92	2012 Feb 13 1000:00	Vega	-	VV01	1.538	ESA	OS	-	G	Sat LEO O	Wire	-	-
2013-021	2456419.59	2013 May 7 0206:31	Vega	-	VV02	0.354	ESA/AE	OS	-	G	Sat SSO D	Wire	-	-
2014-024	2456777.57	2014 Apr 30 0135:15	Vega	-	VV03	0.830	ESA/AE	OS	-	G/OG	Sat SSO D	spaceflightnow.com	-	-
2015-U01	2457065.07	2015 Feb 11 1340	Vega	-	VV04	1.845	ESA/AE	OS	-	G	Sat LEO D	spaceflightnow.com	-	-
2015-028	2457196.58	2015 Jun 23 0151:58	Vega	1	VV05	1.130	ESA/AE	OS	-	G	Sat SSO L	spaceflightnow.com	-	-
2015-070	2457359.67	2015 Dec 3 0404:01	Vega	1	VV06	1.906	ESA/AE	DS	-	G	Sat LEO O	spaceflightnow.com	-	-
2016-058	2457647.57	2016 Sep 16 0143:35	Vega	1	VV07	0.970	AE	OS	-	C/OG+C	Sat SSO D	spaceflightnow.com	-	-
2016-073	2457728.08	2016 Dec 5 1351	Vega	1	VV08	1.060	AE	OS	-	C/OG	Sat SSO D	spaceflightnow.com	-	-
2017-013	2457819.58	2017 Mar 7 0149:24	Vega	1	VV09	1.130	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-
2017-044	2457967.58	2017 Aug 2 0158:33	Vega	1	VV10	0.732	AE	OS	-	C/OG	Sat SSO D 1	spaceflightnow.com	-	-
2017-070	2458065.57	2017 Nov 8 0142:30	Vega	1	VV11	1.110	AE	OS	-	C/OG	Sat SSO D	spaceflightnow.com	-	-
2018-066	2458353.39	2018 Aug 22 2120:09	Vega	1	VV12	1.357	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-
2018-095	2458443.57	2018 Nov 21 0142:31	Vega	1	VV13	1.108	AE	OS	-	C/OG	Sat SSO D	spaceflightnow.com	-	-
2019-015	2458564.58	2019 Mar 22 0150:35	Vega	1	VV14	0.879	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-
2019-F05	2458675.58	2019 Jul 11 0153:03	Vega	1	VV15	1.197	AE	OF	S2P	C/OG	Sat SSO D	spaceflightnow.com	-	Motor fwd dome failed
2020-061	2459095.58	2020 Sep 3 0151:10	Vega	1	VV16	1.465	AE	OS	-	C	Sat SSO D	spaceflightnow.com	-	-
2020-U01	2459170.58	2020 Nov 17 0152:20	Vega	1	VV17	0.925	AE	OF	S4G	C/OG	Sat SSO D	spaceflightnow.com	-	Misconnected control cables
2021-034	2459333.58	2021 Apr 29 0150:00	Vega	1	VV18	1.037	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-
2021-073	2459443.57	2021 Aug 17 0147:06	Vega	1	VV19	0.955	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-
2021-105	2459534.89	2021 Nov 16 0927:55	Vega	1	VV20	1.538	AE	OS	-	C/G	Sat LEO L	spaceflightnow.com	-	-
2023-155	2460226.57	2023 Oct 9 0136:25	Vega	1	VV23	0.783	AE	OS	-	C/OG	Sat SSO D	spaceflightnow.com	-	-
2024-157	2460558.58	2024 Sep 5 0150:15	Vega	1	VV24	1.143	AE	OS	-	C/G	Sat SSO D	spaceflightnow.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-080	2459774.05	2022 Jul 13 1313:17	Vega C	-	VV21	LARES 2	LARES 2	-	-	CSG	ZLV	-	-	6134	-	-
2022-F06	2459934.57	2022 Dec 21 0147:31	Vega C	-	VV22	Pleiades NEO 5/6	Pleiades NEO 5/6	-	-	CSG	ZLV	-	-	110	-	-
2024-235	2460650.39	2024 Dec 5 2120:33	Vega C	-	VV25	Sentinel-1C	Sentinel-1C	-	-	CSG	ZLV	-	-	-	-	-
2025-090	2460794.89	2025 Apr 29 0915	Vega C	-	VV26	Biomass	Biomass	-	-	CSG	ZLV	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-080	2459774.05	2022 Jul 13 1313:17	Vega C	-	VV21	0.314	ESA	OS	-	G	Sat MEO O	spaceflightnow.com	-	-
2022-F06	2459934.57	2022 Dec 21 0147:31	Vega C	-	VV22	1.844	AE	OF	S2P	G	Sat SSO D	spaceflightnow.com	-	Nozzle failed
2024-235	2460650.39	2024 Dec 5 2120:33	Vega C	-	VV25	2.157	AE	OS	-	G	Sat SSO D	spaceflightnow.com	-	-
2025-090	2460794.89	2025 Apr 29 0915	Vega C	-	VV26	1.132	AE	OS	-	G	Sat SSO D	spaceflightnow.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1961-S161	2437446.50	1961 May 27	Centaure	-	C03	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1961-S163	2437448.50	1961 May 29	Centaure	-	C04	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1961-S408	2437639.50	1961 Dec 6	Centaure	-	C02	-	-	-	-	REG	-	-	-	130?	-	-
1961-S409	2437639.50	1961 Dec 6	Centaure	-	C06	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1961-S416	2437642.50	1961 Dec 9	Centaure	-	C05	-	-	-	-	REG	-	-	-	130?	-	-
1961-S417	2437642.75	1961 Dec 9 0605	Centaure	-	C07	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1961-S418	2437642.50	1961 Dec 9	Centaure	-	C08	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1962-S135	2437802.50	1962 May 18	Centaure	-	C10	-	-	-	-	CERES	-	-	-	130?	-	-
1962-S145	2437813.50	1962 May 29	Centaure	-	C12	-	-	-	-	CERES	-	-	-	130?	-	-
1962-S146	2437813.50	1962 May 29	Centaure	-	C15	-	-	-	-	REG	-	-	-	130?	-	-
1962-S147	2437813.50	1962 May 29	Centaure	-	C18	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1962-S162	2437820.50	1962 Jun 5	Centaure	-	C14	-	-	-	-	CERES	-	-	-	130?	-	-
1962-S163	2437820.50	1962 Jun 5	Centaure	-	C16	-	-	-	-	REG	-	-	-	130?	-	-
1962-S164	2437820.50	1962 Jun 5	Centaure	-	C17	-	-	-	-	REG	-	-	-	130?	-	-
1962-S165	2437820.50	1962 Jun 5	Centaure	-	C19	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1962-S166	2437820.50	1962 Jun 5	Centaure	-	C09	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1962-S490	2437994.50	1962 Nov 26	Centaure	-	C20	-	-	-	-	HMG	Bacchus?	-	-	120	-	-
1962-S493	2437996.48	1962 Nov 27 2337	Centaure	-	C30	-	-	-	-	CELPA	-	-	-	180	-	-
1962-S498	2437997.23	1962 Nov 28 1736	Centaure	-	C32	LangP/Na	-	-	-	HMG	Bacchus?	-	-	160	-	-
1962-S511	2437999.23	1962 Nov 30 1736	Centaure	-	C11	LangP/Na	-	-	-	HMG	Bacchus?	-	-	170	-	-
1962-S512	2437998.50	1962 Nov 30	Centaure	-	C26	-	-	-	-	HMG	Bacchus?	-	-	130?	-	-
1962-S513	2437998.85	1962 Nov 30 0817	Centaure	-	C29	-	-	-	-	CELPA	-	-	-	180	-	-
1962-S514	2437998.50	1962 Nov 30	Centaure	-	C37	-	-	-	-	CERES	-	-	-	60?	-	-
1962-A209	2437999.50	1962 Dec 1	Centaure	-	C27	-	-	-	-	HMG	Bacchus?	-	-	40?	-	-
1962-S523	2438002.50	1962 Dec 4	Centaure	-	C21	-	-	-	-	HMG	-	-	-	60?	-	-
1962-S545	2438006.50	1962 Dec 8	Centaure	-	C28	-	-	-	-	CELPA	-	-	-	180	-	-
1962-S547	2438007.50	1962 Dec 9	Centaure	-	C31	-	-	-	-	CELPA	-	-	-	180	-	-
1962-S554	2438010.50	1962 Dec 12	Centaure	-	C24	-	-	-	-	CERES	-	-	-	130?	-	-
1962-S555	2438010.50	1962 Dec 12	Centaure	-	C25	-	-	-	-	CERES	-	-	-	130?	-	-
1963-S130	2438120.50	1963 Apr 1	Centaure	?	-	Spurious?	-	-	-	KER	-	-	-	130?	-	-
1963-S200	2438163.50	1963 May 14	Centaure	-	C51	-	-	-	-	HMG	Bacchus?	-	-	155	-	-
1963-S202	2438165.27	1963 May 15 1822	Centaure	-	C42	MPE Ba-3	-	-	-	HMG	Bacchus?	-	-	160	-	-
1963-S221	2438170.50	1963 May 21	Centaure	-	C45	-	-	-	-	REG	-	-	-	170	-	-
1963-S222	2438170.50	1963 May 21	Centaure	-	C48	-	-	-	-	CERES	-	-	-	170	-	-
1963-S223	2438171.27	1963 May 21 1825	Centaure	-	C43	MPE Ba-4	-	-	-	HMG	Bacchus?	-	-	125	-	-
1963-S234	2438173.50	1963 May 24	Centaure	-	C41	-	-	-	-	HMG	Bacchus?	-	-	15	-	-
1963-S238	2438174.50	1963 May 25	Centaure	-	C35	Na cloud	-	-	-	CELPA	-	-	-	189	-	-
1963-S245	2438179.50	1963 May 30	Centaure	-	C36	-	-	-	-	CELPA	-	-	-	150?	-	-
1963-S246	2438179.50	1963 May 30	Centaure	-	C39	-	-	-	-	CELPA	-	-	-	150?	-	-
1963-S270	2438193.28	1963 Jun 12 1839	Centaure 1	-	C54	LangP/Na	-	-	-	HMG	Bacchus	-	-	145	-	-
1963-S274	2438193.50	1963 Jun 13	Centaure 1	-	C55	-	-	-	-	HMG	Bacchus	-	-	188	-	-
1963-S276	2438194.50	1963 Jun 14	Centaure 1	-	C53	-	-	-	-	HMG	Bacchus	-	-	185	-	-
1964-S81	2438435.27	1964 Feb 9 1823	Centaure 1	-	C13	FU-104A	-	-	-	HMG	Bacchus	-	-	180	-	-
1964-S86	2438437.50	1964 Feb 12	Centaure 1	-	C52	FU-106	-	-	-	HMG	Bacchus	-	-	23	-	-
1964-S87	2438437.50	1964 Feb 12	Centaure 1	-	C44	-	-	-	-	HMG	Bacchus	-	-	190	-	-
1964-S88	2438437.50	1964 Feb 12	Centaure 1	-	C56	-	-	-	-	HMG	Bacchus	-	-	190	-	-
1964-S91	2438438.71	1964 Feb 13 0500	Centaure 1	-	C57	-	-	-	-	HMG	Bacchus	-	-	170	-	-
1964-S92	2438438.50	1964 Feb 13	Centaure 1	-	C40	-	-	-	-	HMG	Bacchus	-	-	170	-	-
1964-S97	2438439.69	1964 Feb 14 0437	Centaure 1	-	C38	MPE Ba-5	-	-	-	HMG	Bacchus	-	-	186	-	-
1964-S99	2438440.69	1964 Feb 15 0437	Centaure 1	-	C34	MPE Ba-6	-	-	-	HMG	Bacchus	-	-	189	-	-
1964-S200	2438496.50	1964 Apr 11	Centaure 1	-	C58	Na/TMA	-	-	-	HMG	Bacchus	-	-	188	-	-
1964-S204	2438498.50	1964 Apr 13	Centaure 1	-	C59	Na/TMA	-	-	-	HMG	Bacchus	-	-	190	-	-
1964-S231	2438519.50	1964 May 4	Centaure 1	-	C60	CNET A	-	-	-	HMG	Bacchus	-	-	148	-	-
1964-S235	2438524.27	1964 May 8 1822	Centaure 1	-	C33	CNET A	-	-	-	HMG	Bacchus	-	-	151	-	-
1964-S236	2438525.50	1964 May 10	Centaure 1	-	C22	Seddon	-	-	-	HMG	Bacchus	-	-	28	-	-
1964-S237	2438525.50	1964 May 10	Centaure 1	-	C46	Na	-	-	-	HMG	Bacchus	-	-	179	-	-
1964-S243	2438529.50	1964 May 14	Centaure 1	-	C23	Seddon	-	-	-	HMG	Bacchus	-	-	129	-	-
1964-S502	2438674.15	1964 Oct 5 1530	Centaure 1	-	C62	CNET B	-	-	-	HMG	Bacchus	-	-	148	-	-
1964-S505	2438676.15	1964 Oct 7 1542	Centaure 1	-	C63	CNET B	-	-	-	HMG	Bacchus	-	-	118	-	-
1964-S551	2438698.47	1964 Oct 29 2318	Centaure 1	-	-	ESRO CO2/1	-	-	-	CERES	-	-	-	150	-	-
1964-S573	2438703.85	1964 Nov 4 0831	Centaure 1	-	C78	-	-	-	-	CELPA	-	-	-	175	-	-
1964-S576	2438704.50	1964 Nov 5	Centaure 1	-	C69	TMA	-	-	-	HMG	Bacchus?	-	-	175	-	-
1964-S577	2438704.50	1964 Nov 5	Centaure 1	-	C47	Na	-	-	-	HMG	Bacchus?	-	-	185	-	-
1964-S578	2438704.50	1964 Nov 5	Centaure 1	-	C64	TMA	-	-	-	CERES	-	-	-	150	-	-
1964-S579	2438704.50	1964 Nov 5	Centaure 1	-	C72	Na	-	-	-	REG	-	-	-	150?	-	-
1964-S580	2438704.50	1964 Nov 5	Centaure 1	-	C67	Na	-	-	-	REG	-	-	-	150?	-	-
1964-S586	2438705.47	1964 Nov 5 2316	Centaure 1	-	C80	-	-	-	-	CELPA	-	-	-	176	-	-
1964-S590	2438705.50	1964 Nov 6	Centaure 1	-	C66	Na/TMA	-	-	-	REG	-	-	-	150?	-	-
1964-S591	2438705.50	1964 Nov 6	Centaure 1	-	C71	TMA	-	-	-	CERES	-	-	-	103	-	-
1964-S595	2438705.85	1964 Nov 6 0831	Centaure 1	-	C79	-	-	-	-	CELPA	-	-	-	179	-	-
1964-S651	2438727.23	1964 Nov 27 1738	Centaure 1	-	C75/EXP-9	MPE Ba-9	-	-	-	HMG	Bacchus	-	-	166	-	-
1964-S660	2438730.23	1964 Nov 30 1737	Centaure 1	-	C76/EXP-10	MPE Ba-10	-	-	-	HMG	Bacchus	-	-	207	-	-
1965-S131	2438823.50	1965 Mar 4	Centaure 1	-	C85	SINTRA pointing	-	-	-	HMG	Bacchus?	-	-	120	-	-
1965-S258	2438879.50	1965 Apr 28 2357	Centaure 1	-	C99	ISRO 15.02	TERLS-022	-	-	TERLS	-	-	-	150	-	-
1965-S272	2438882.49	1965 May 1 2343	Centaure 1	-	C100	ISRO 15.01	TERLS-023	-	-	TERLS	-	-	-	140	-	-
1965-S368	2438933.50	1965 Jun 22	Centaure 1	-	C106	Cs	-	-	-	HMG	Bacchus?	-	-	4?	-	-
1965-S373	2438934.50	1965 Jun 23	Centaure 1	-	C61	Na	-	-	-	HMG	Bacchus?	-	-	150?	-	-
1965-S374	2438934.50	1965 Jun 23	Centaure 1	-	C65	Na	-	-	-	CERES	-	-	-	150?	-	-
1965-S375	2438934.50	1965 Jun 23	Centaure 1	-	C50	TMA	-	-	-	HMG	Bacchus?	-	-	150?	-	-
1965-S376	2438934.50	1965 Jun 23	Centaure 1	-	C95	TMA	-	-	-	CERES	-	-	-	150?	-	-
1965-S384	2438935.50	1965 Jun 24	Centaure 1	-	C84	TMA	-	-	-	CERES	-	-	-	150?	-	-
1965-S385	2438935.50	1965 Jun 24	Centaure 1	-	C74	TMA	-	-	-	HMG	Bacchus?	-	-	4?	-	-
1965-S386	2438935.50	1965 Jun 24	Centaure 1	-	C86	-	-	-	-	REG	-	-	-	150?	-	-
1965-S387	2438935.50	1965 Jun 24	Centaure 1	-	C83	Na	-	-	-	CERES	-	-	-	150?	-	-
1965-S630	2439083.24	1965 Nov 18 1745	Centaure 1	-	C119	MPE Ba-14	-	-	-	HMG	Bechar	-	-	170	-	-
1965-S632	2439084.24	1965 Nov 19 1745	Centaure 1	-	C120	MPE Ba-15	-	-	-	HMG	Bechar	-	-	190	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S648	2439089.69	1965 Nov 25 0440	Centaure 1	-	C91	-	-	-	-	CELPA	-	-	-	175	-	-
1965-S649	2439089.85	1965 Nov 25 0824	Centaure 1	-	C93	-	-	-	-	CELPA	-	-	-	175	-	-
1965-S651	2439090.85	1965 Nov 26 0824	Centaure 1	-	C96	-	-	-	-	CELPA	-	-	-	175	-	-
1965-S666	2439101.66	1965 Dec 7 0353	Centaure 1	-	-	ESRO C07/1	-	-	-	SDQ	-	-	-	150	-	-
1965-S674	2439105.67	1965 Dec 11 0405	Centaure 1	-	-	ESRO C07/2	-	-	-	SDQ	-	-	-	159	-	-
1965-S680	2439109.03	1965 Dec 14 1249	Centaure 1	-	CE-6	ESRO C06/1	-	-	-	SDQ	-	-	-	159	-	-
1965-S686	2439110.50	1965 Dec 16	Centaure 1	-	C128	CNES FU-148	-	-	-	HMG	Bacchus	-	-	128	-	-
1965-S685	2439110.50	1965 Dec 16	Centaure 1	-	C131	CNES FU-148	-	-	-	HMG	Bacchus	-	-	145	-	-
1965-S687	2439110.50	1965 Dec 16	Centaure 1	-	C94	CNES FU-146	-	-	-	HMG	Bacchus	-	-	170	-	-
1965-S691	2439114.50	1965 Dec 20	Centaure 1	-	C130	CNES FU-148	-	-	-	HMG	Bacchus	-	-	145	-	-
1966-S59	2439134.05	1966 Jan 8 1311	Centaure 1	-	C103	ISRO 15.03	TERLS-035	-	-	TERLS	-	-	-	150	-	-
1966-S63	2439143.25	1966 Jan 17 1756	Centaure 1	-	C127	CNES FU-148	-	-	-	HMG	Bacchus	-	-	124	-	-
1966-S98	2439161.47	1966 Feb 4 2319:32	Centaure 1	-	CE-16	ESRO C15/1	-	-	-	AND	-	-	-	120	-	-
1966-A36	2439167.59	1966 Feb 11 0203:15	Centaure 1	-	CE-15	ESRO C15/2	-	-	-	AND	-	-	-	1	-	-
1966-S126	2439179.27	1966 Feb 22 1828:56	Centaure 1	-	CE-13	ESRO C14/1	-	-	-	AND	-	-	-	115	-	-
1966-S128	2439180.47	1966 Feb 23 2314:52	Centaure 1	-	CE-14	ESRO C14/2	-	-	-	AND	-	-	-	117	-	-
1966-S149	2439188.43	1966 Mar 3 2226	Centaure 1	-	C77	CNES FU-129	-	-	-	HMG	Bacchus	-	-	125	-	-
1966-S155	2439194.43	1966 Mar 9 2220:21	Centaure 1	-	CE-12	ESRO C13/1	-	-	-	AND	-	-	-	94	-	-
1966-S159	2439195.43	1966 Mar 10 2225:32	Centaure 1	-	CE-11	ESRO C13/2	-	-	-	AND	-	-	-	114	-	-
1966-S185	2439209.20	1966 Mar 24 1645	Centaure 1	-	C101	ISRO 15.04	TERLS-040	-	-	TERLS	-	-	-	163	-	-
1966-S187	2439209.38	1966 Mar 24 2100	Centaure 1	-	C102	ISRO 15.05	TERLS-041	-	-	TERLS	-	-	-	159	-	-
1966-S263	2439260.71	1966 May 15 0502	Centaure 1	-	CE-5	ESRO C06/2	-	-	-	KARY	-	-	-	143	-	-
1966-S269	2439265.90	1966 May 20 0930:30	Centaure 1	-	CE-19	ESRO C22/1	-	-	-	KARY	-	-	-	118	-	-
1966-S270	2439265.99	1966 May 20 1140:00	Centaure 1	-	CE-20	ESRO C22/2	-	-	-	KARY	-	-	-	114	-	-
1966-S314	2439290.32	1966 Jun 13 1938	Centaure 1	-	C68	Na/Turbulence	-	-	-	HMG	Bacchus	-	-	180	-	-
1966-S319	2439292.50	1966 Jun 16	Centaure 1	-	C70	Na/Turbulence	-	-	-	HMG	Bacchus	-	-	183	-	-
1966-S534	2439406.50	1966 Oct 8	Centaure 1	-	C140	CNES FU-109	-	-	-	HMG	Bacchus?	-	-	170	-	-
1966-S618	2439443.98	1966 Nov 14 1128:21	Centaure 1	-	C105	CNES FU-167	GT12 Target	-	-	HMG	Bacchus?	-	-	170?	-	-
1966-S619	2439444.04	1966 Nov 14 1303:14	Centaure 1	-	C139	CNES FU-167	GT12 Target	-	-	HMG	Bacchus?	-	-	170?	-	-
1966-S642	2439449.49	1966 Nov 19 2342:36	Centaure 1	-	-	ESRO C21/1	-	-	-	ESR	C	-	-	123	-	-
1966-S659	2439458.55	1966 Nov 29 0106:39	Centaure 1	-	CE-8	ESRO C9/1	-	-	-	ESR	C	-	-	147	-	-
1966-S665	2439460.42	1966 Nov 30 2204:16	Centaure 1	-	CE-7	ESRO C9/2	-	-	-	ESR	C	-	-	149	-	-
1967-S116	2439526.50	1967 Feb 4 2353:31	Centaure 1	-	CE-22	ESRO C21/2	-	-	-	ESR	C	-	-	126	-	-
1967-S121	2439537.82	1967 Feb 16 0737:15	Centaure 1	-	CE-9	ESRO C10/1	-	-	-	ESR	C	-	-	148	-	-
1967-S125	2439543.80	1967 Feb 22 0712:25	Centaure 1	-	CE-10	ESRO C10/2	-	-	-	ESR	C	-	-	155	-	-
1967-S175	2439577.50	1967 Mar 28	Centaure 1	-	C145	CNES FU-177	-	-	-	HMG	Bacchus?	-	-	163	-	-
1967-S222	2439600.18	1967 Apr 19 1619:10	Centaure 2B	-	CE-24/1	ESRO C24/1	-	-	-	ESR	C	-	-	128	-	-
1967-S223	2439599.76	1967 Apr 19 0614	Centaure 1	-	C87	ISRO 45.01	TERLS-051	-	-	TERLS	-	-	-	128	-	-
1967-S242	2439614.10	1967 May 3 1429	Centaure 1	-	Rehbar 15	-	-	-	-	SOM	-	-	-	150	-	-
1967-S251	2439618.10	1967 May 7 1430	Centaure 1	-	Rehbar 16	-	-	-	-	SOM	-	-	-	150	-	-
1967-S363	2439702.52	1967 Jul 31 0031:18	Centaure 2B	-	CE-30	ESRO C20/1	-	-	-	ESR	C	-	-	133	-	-
1967-S364	2439702.54	1967 Jul 31 0058:23	Centaure 2B	-	CE-31	ESRO C32/1	-	-	-	ESR	C	-	-	127	-	-
1967-S643	2439739.50	1967 Sep 6	Centaure 1	-	C143	-	-	-	-	CELPA	-	-	-	150?	-	-
1967-S526	2439740.50	1967 Sep 7	Centaure 1	-	C92	-	-	-	-	CELPA	-	-	-	150?	-	-
1967-S644	2439740.50	1967 Sep 7	Centaure 1	-	C144	-	-	-	-	CELPA	-	-	-	150?	-	-
1967-S546	2439818.57	1967 Nov 24 0137:10	Centaure 2B	-	CE-36	ESRO C13/P	-	-	-	ESR	C	-	-	160	-	-
1967-S551	2439821.32	1967 Nov 26 1944:22	Centaure 1	-	CE-17	ESRO C31/1	-	-	-	ESR	C	-	-	125	-	-
1967-S572	2439831.39	1967 Dec 6 2121:12	Centaure 1	-	CE-2	ESRO C31/2	-	-	-	ESR	C	-	-	129	-	-
1968-S106	2439887.74	1968 Feb 1 0542:00	Centaure 2B	?	CE-34	ESRO C36/1	-	-	-	ESR	C	-	-	160	-	-
1968-S118	2439889.07	1968 Feb 2 1340	Centaure 1	-	C90	ISRO 15.06	TERLS-065	-	-	TERLS	-	-	-	159	-	-
1968-S120	2439890.73	1968 Feb 4 0533:05	Centaure 2B	?	CE-35	ESRO C36/2	-	-	-	ESR	C	-	-	165	-	-
1968-S139	2439908.32	1968 Feb 21 1940	Centaure 1	-	C88	ISRO 25.02	TERLS-066	-	-	TERLS	-	-	-	136	-	-
1968-S147	2439908.98	1968 Feb 22 1125	Centaure 1	-	C89	ISRO 25.01	TERLS-067	-	-	TERLS	-	-	-	153	-	-
1968-S170	2439922.40	1968 Mar 6 2135:09	Centaure 2B	-	CE-37	ESRO C14/P	-	-	-	ESR	C	-	-	155	-	-
1968-S205	2439939.09	1968 Mar 23 1405	Centaure 1	-	C155	Rehbar 17	-	-	-	SOM	-	-	-	131	-	-
1968-S251	2439949.53	1968 Apr 3 0038	Centaure 1	-	C158	Rehbar 18	-	-	-	SOM	-	-	-	119	-	-
1968-M10	2439984.99	1968 May 8 1147:25	Centaure 1	-	CE-46 (C152)	ESRO C33/1	-	-	-	SDQ	-	-	-	53	-	-
1968-M11	2439991.98	1968 May 15 1124:00	Centaure 1	-	CE-47 (C153)	ESRO C33/2	-	-	-	SDQ	-	-	-	80	-	-
1968-S333	2439997.16	1968 May 20 1551:20	Centaure 2B	-	CE-38	ESRO C42/1	-	-	-	ESR	C	-	-	135	-	-
1968-S363	2440015.14	1968 Jun 7 1525:45	Centaure 2B	-	CE-44	ESRO C42/2	-	-	-	ESR	C	-	-	138	-	-
1968-S366	2440016.38	1968 Jun 8 2101:16	Centaure 2B	-	CE-32	ESRO C32/2	-	-	-	ESR	C	-	-	135	-	-
1968-S429	2440068.45	1968 Jul 30 2253:30	Centaure 2B	-	CE-31	ESRO C20/2	-	-	-	ESR	C	-	-	135	-	-
1968-S526	2440137.99	1968 Oct 8 1142:57	Centaure 2B	-	CE-48	ESRO C35/1	-	-	-	ESR	C	-	-	140	-	-
1968-S535	2440145.19	1968 Oct 15 1632:00	Centaure 2B	-	CE-39	ESRO C45/1	-	-	-	ESR	C	-	-	160	-	-
1968-S564	2440161.69	1968 Nov 1 0440:00	Centaure 2B	-	CE-50	ESRO C45/2	-	-	-	ESR	C	-	-	167	-	-
1968-S566	2440163.64	1968 Nov 3 0319	Centaure 1	-	C104	ISRO 35.01	TERLS-088	-	-	TERLS	-	-	-	159	-	-
1969-M05	2440262.07	1969 Feb 9 1346	Centaure 1	-	-	Rehbar 19	-	-	-	SOM	-	-	-	55	-	-
1969-A43	2440266.08	1969 Feb 13 1348	Centaure 1	-	-	Rehbar 20	-	-	-	SOM	-	-	-	12	-	-
1969-S151	2440278.19	1969 Feb 25 1633:20	Centaure 2B	-	CE	ESRO C49/1 (R3)	-	-	-	AND	-	-	-	136	-	-
1969-S152	2440278.49	1969 Feb 25 2350:04	Centaure 2B	-	CE	ESRO C49/2	-	-	-	AND	-	-	-	128	-	-
1969-S153	2440278.92	1969 Feb 26 1000:00	Centaure 2A	-	ISRO-45.002	ISRO 45.02	TERLS-104	-	-	TERLS	-	-	-	145	-	-
1969-S195	2440296.44	1969 Mar 15 2231:02	Centaure 2B	-	C52/1	ESRO C52/1	-	-	-	ESR	C	-	-	136	-	-
1969-S245	2440312.10	1969 Mar 31 1418	Centaure 2A	-	-	Rehnuma 1	-	-	-	SOM	-	-	-	138	-	-
1969-A59	2440326.26	1969 Apr 14 1815:00	Centaure 2B	-	C39/1	ESRO C39/1	-	-	-	ESR	C	-	-	5	-	-
1969-S270	2440326.96	1969 Apr 15 1103:00	Centaure 2B	-	C39/2	ESRO C39/2	-	-	-	ESR	C	-	-	134	-	-
1969-S357	2440378.31	1969 Jun 5 1927:53	Centaure 2B	-	C35/2	ESRO C35/2	-	-	-	ESR	C	-	-	130	-	-
1969-S401	2440413.02	1969 Jul 10 1231	Centaure 1	-	C81	CNES FU-152	-	-	-	CEM	-	-	-	109	-	-
1969-S402	2440413.24	1969 Jul 10 1750	Centaure 1	-	C82	CNES FU-152	-	-	-	CEM	-	-	-	114	-	-
1969-S449	2440444.56	1969 Aug 11 0130:00	Centaure 2B	-	C51/1	ESRO C51/1	-	-	-	ESR	C	-	-	147	-	-
1969-S453	2440447.63	1969 Aug 14 0301:00	Centaure 2B	-	C58/1	ESRO C58/1	-	-	-	ESR	C	-	-	112	-	-
1969-S536	2440505.33	1969 Oct 10 2001:31	Centaure 2B	-	C52/2	ESRO C52/2	-	-	-	ESR	C	-	-	135	-	-
1969-S638	2440552.73	1969 Nov 27 0529:00	Centaure 2B	-	C62/1	ESRO C62/1	-	-	-	ESR	C	-	-	160	-	-
1969-S639	2440552.77	1969 Nov 27 0631:00	Centaure 2B	-	C62/2	ESRO C62/2	-	-	-	ESR	C	-	-	164	-	-
1969-S652	2440562.52	1969 Dec 7 0035:00	Centaure 2A	-	ISRO-45.003	ISRO 45.03	TERLS-141	-	-	TERLS	-	-	-	123	-	-
1970-S100	2440621.73	1970 Feb 4 0526	Centaure 2B	-	C57/1	ESRO C57/1	-	-	-	ESR	C	-	-	172	-	-
1970-S136	2440641.20	1970 Feb 23 1649:40	Centaure 2B	-	C37/1	ESRO C37/1 MPE Ba	-	-	-	ESR	C	-	-	210	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1970-S279	2440679.56	1970 Apr 3 0122	Centaure 2B	-	C57/2	ESRO C57/2	-	-	-	ESR	C	-	-	173	-	-
1970-S388	2440744.81	1970 Jun 7 0725:50	Centaure 2B	-	C48/1	ESRO C48/1	-	-	-	ESR	C	-	-	162	-	-
1970-S476	2440808.49	1970 Aug 9 2339:40	Centaure 2B	-	C58/2	ESRO C58/2	-	-	-	ESR	C	-	-	114	-	-
1970-S477	2440808.53	1970 Aug 10 0050	Centaure 2B	-	C51/2	ESRO C51/2	-	-	-	ESR	C	-	-	154	-	-
1970-S489	2440817.96	1970 Aug 19 1103	Centaure 2B	-	C48/2	ESRO C48/2	-	-	-	ESR	C	-	-	163	-	-
1971-A02	2440958.52	1971 Jan 7 0027	Centaure 2A	-	ISRO 5.12	ISRO 5.12 Recovery	TERLS-276	-	-	TERLS	-	-	-	1?	-	-
1971-S69	2440969.12	1971 Jan 17 1448:10	Centaure 2B	-	C37/2	ESRO C37/2 MPE Ba	-	-	-	ESR	C	-	-	215	-	-
1971-S87	2440977.03	1971 Jan 25 1238	Centaure 2B	-	C60/1	ESRO C60/1	-	-	-	ESR	C	-	-	175	-	-
1971-S90	2440977.95	1971 Jan 26 1050	Centaure 2B	-	C60/2	ESRO C60/2	-	-	-	ESR	C	-	-	167	-	-
1971-S96	2440979.46	1971 Jan 27 2302:45	Centaure 2B	-	C78/1	ESRO C78/1	-	-	-	ESR	C	-	-	140	-	-
1971-S255	2441068.32	1971 Apr 26 1934	Centaure 1	-	C136	INTA C-7101	CNES FU-207A	-	-	ELAR	-	-	-	129	-	-
1971-S305	2441098.33	1971 May 26 2000	Centaure 1	-	C141	INTA C-7102	-	-	-	ELAR	-	-	-	128	-	-
1971-S309	2441098.69	1971 May 27 0436	Centaure 1	-	C137	INTA C-7103	-	-	-	ELAR	-	-	-	127	-	-
1971-S310	2441099.33	1971 May 27 2000	Centaure 1	-	C142	INTA C-7104	-	-	-	ELAR	-	-	-	103	-	-
1971-S377	2441163.51	1971 Jul 31 0021	Centaure 2C	-	C59/1	ESRO C59/1	-	-	-	ESR	C	-	-	120	-	-
1971-S380	2441164.51	1971 Aug 1 0009	Centaure 2C	-	C59/2	ESRO C59/2	-	-	-	ESR	C	-	-	119	-	-
1971-S441	2441207.50	1971 Sep 13	Centaure 1	-	C133	CNES FU-199	-	-	-	CSG	ALFS	-	-	135	-	-
1971-S452	2441214.42	1971 Sep 19 2200	Centaure 1	-	C132	CNES FU-199	-	-	-	CSG	ALFS	-	-	128	-	-
1971-S453	2441214.42	1971 Sep 19 2200	Centaure 1	-	C146	CNES FU-199	-	-	-	CSG	ALFS	-	-	128	-	-
1971-S530	2441243.08	1971 Oct 18 1400	Centaure 1	-	C154	ISRO 5.13?	-	-	-	CSG	ALFS	-	-	150?	-	-
1971-S568	2441278.34	1971 Nov 22 2007:40	Centaure 2B	-	CE-67	ESRO C78/2	-	-	-	ESR	C	-	-	138	-	-
1972-S46	2441338.29	1972 Jan 21 1902:20	Centaure 2C	-	C76/1	ESRO C76/1	-	-	-	ESR	C	-	-	130	-	-
1972-S48	2441338.54	1972 Jan 22 0058:30	Centaure 2C	-	C76/2	ESRO C76/2	-	-	-	ESR	C	-	-	131	-	-
1972-S153	2441415.10	1972 Apr 7 1420	Centaure 1	-	Rehbar 23	-	-	-	-	SOM	-	-	-	150	-	-
1972-S154	2441416.10	1972 Apr 8 1418	Centaure 1	-	Rehbar 24	-	-	-	-	SOM	-	-	-	150	-	-
1972-S286	2441541.59	1972 Aug 12 0215	Centaure 2A	-	ISRO 5.14	ISRO 5.14	TERLS-463	-	-	TERLS	-	-	-	150	-	-
1972-S287	2441546.92	1972 Aug 17 1002	Centaure 2A	-	ISRO 5.16	ISRO 5.16 CO5.16	TERLS-465	-	-	TERLS	-	-	-	151	-	-
1972-S348	2441604.29	1972 Oct 13 1857	Centaure 2A	-	ISRO 5.17	CNES FU-198	TERLS-488	Electrojet	-	TERLS	-	-	-	120	-	-
1973-S22	2441703.90	1973 Jan 21 0940	Centaure 2A	-	ISRO 5.15	ISRO 5.15 C.09	TERLS-520	-	-	TERLS	-	-	-	165	-	-
1973-S56	2441716.30	1973 Feb 2 1905	Centaure 2A	-	ISRO 5.18	ISRO 5.18 CO.07	TERLS-523	-	-	TERLS	-	-	-	147	-	-
1973-S92	2441744.75	1973 Mar 3 0605	Centaure 2A	-	ISRO 5.19	CNES FU-198 bis	TERLS-532	Electrojet	-	TERLS	-	-	-	125	-	-
1973-S148	2441784.24	1973 Apr 11 1750	Centaure 2A	-	ISRO 5.20	ISRO 5.20	TERLS-552	-	-	TERLS	-	-	-	151	-	-
1973-S228	2441867.55	1973 Jul 4 0115	Centaure 2A	-	ISRO 5.21	ISRO 5.21	TERLS-578	-	-	TERLS	-	-	-	1?	-	-
1974-S107	2442099.21	1974 Feb 20 1701:16	Centaure 2C	-	ESRO C111/1	C111/1	-	-	-	ESR	C	-	-	155	-	-
1974-S109	2442099.27	1974 Feb 20 1822:22	Centaure 2C	-	ESRO C111/2	C111/2	-	-	-	ESR	C	-	-	152	-	-
1974-S539	2442211.50	1974 Jun 13	Centaure 2B	-	ISRO 5.22?	SLV-3 Subsystems Test	-	-	-	TERLS	-	-	-	150?	-	-
1974-S299	2442302.50	1974 Sep 12	Centaure 2C	-	ESRO C99/1 C207	NO-II-1 FU-225	-	-	-	CSG	ALFS	-	-	140	-	-
1974-S300	2442302.50	1974 Sep 12	Centaure 2C	-	ESRO C99/2 C201	NO-II-2 FU-225	-	-	-	CSG	ALFS	-	-	140	-	-
1974-S301	2442303.50	1974 Sep 13	Centaure 2C	-	ESRO C99/3 C209	NO-II-3 FU-225	-	-	-	CSG	ALFS	-	-	140	-	-
1975-S67	2442452.74	1975 Feb 9 0550	Centaure 2B	-	ISRO 5.23 CE-1	ISRO 5.23	TERLS-730	-	-	TERLS	-	-	-	150?	-	-
1975-S74	2442462.73	1975 Feb 19 0535	Centaure 2B	-	ISRO 5.25 CE-4	ISRO 5.25 CO.04	TERLS-732	-	-	TERLS	-	-	-	160	-	-
1975-S77	2442462.88	1975 Feb 19 0904	Centaure 2B	-	ISRO 5.24 CE-2	ISRO 5.24	TERLS-735	-	-	TERLS	-	-	-	164	-	-
1975-S93	2442478.52	1975 Mar 7 0022:55	Centaure 2C	-	SSC S13 (C100)	SSC S13	-	-	-	ESR	C	-	-	109	-	-
1975-S128	2442523.84	1975 Apr 21 0811	Centaure 2B	-	ISRO 5.26	ISRO 5.26 CO.22	TERLS-747	-	-	TERLS	-	-	-	157	-	-
1975-S132	2442524.23	1975 Apr 21 1730	Centaure 2B	-	ISRO 5.27	ISRO 5.27 CO.21	TERLS-748	-	-	TERLS	-	-	-	156	-	-
1975-S417	2442728.50	1975 Nov 12	Centaure 2B	-	ISRO 5.28?	SLV-3 Subsystems Test	-	-	-	TERLS	-	-	-	150?	-	-
1976-M08	2442838.04	1976 Feb 29 1304	Centaure 2B	-	ISRO 5.29	ISRO 5.29	-	-	-	TERLS	-	-	-	56	-	-
1976-S142	2442861.53	1976 Mar 24 0040	Centaure 2B	-	ISRO 5.30	ISRO 5.30	-	-	-	TERLS	-	-	-	142	-	-
1976-S143	2442863.57	1976 Mar 26 0135	Centaure 2B	-	ISRO 5.31	ISRO 5.31	-	-	-	TERLS	-	-	-	139	-	-
1976-S161	2442887.50	1976 Apr 18 2355	Centaure 2B	-	ISRO 5.32	ISRO 5.32	-	-	-	TERLS	-	-	-	152	-	-
1976-S232	2442986.70	1976 Jul 27 0445	Centaure 2B	-	ISRO 5.33	SLV-3 Subsystems Test	-	-	-	TERLS	-	-	-	97	-	-
1976-S303	2443060.24	1976 Oct 8 1744	Centaure 2B	-	ISRO 5.34	ISRO 5.34	-	-	-	TERLS	-	-	-	120	-	-
1976-A67	2443066.22	1976 Oct 14 1717	Centaure 2B	-	ISRO 5.35	ISRO 5.35	-	-	-	TERLS	-	-	-	0?	-	-
1976-S312	2443079.19	1976 Oct 27 1629	Centaure 2B	-	ISRO 5.36 C.34	ISRO 5.36 C-300	-	-	-	TERLS	-	-	-	148	-	-
1976-S326	2443100.68	1976 Nov 18 0425	Centaure 2B	-	ISRO 5.37	ISRO 5.37	-	-	-	TERLS	-	-	-	128	-	-
1977-S309	2443298.75	1977 Jun 4 0558	Centaure 2B	?	ISRO 5.40	ISRO 5.40 (CO.40)	-	-	-	TERLS	-	-	-	150?	-	-
1977-S456	2443324.50	1977 Jun 30	Centaure 2B	-	ISRO	X-ray payload	-	-	-	TERLS	-	-	-	150?	-	-
1977-S301	2443489.95	1977 Dec 12 1049	Centaure 1	-	INTA TCIS-7701	C-3-2	-	-	-	ELAR	-	-	-	150?	-	-
1977-S305	2443493.94	1977 Dec 16 1035	Centaure 1	-	INTA TCIS-7702	C-3-2	-	-	-	ELAR	-	-	-	150?	-	-
1978-S257	2443560.89	1978 Feb 21 0922	Centaure 2B	?	ISRO	ISRO 5.47 (CO.47)	-	-	-	TERLS	-	-	-	150?	-	-
1978-S267	2443813.10	1978 Oct 31 1420	Centaure 2B	-	ISRO	ISRO 5.49	-	-	-	TERLS	-	-	-	150?	-	-
1978-S259	2443863.36	1978 Dec 20 2045	Centaure 2B	?	ISRO	ISRO 5.51 (CO.51)	-	-	-	TERLS	-	-	-	160	-	-
1978-S260	2443863.53	1978 Dec 21 0045	Centaure 2B	?	ISRO	ISRO 5.52 (CO.52)	-	-	-	TERLS	-	-	-	135	-	-
1979-S321	2443873.50	1979	Centaure 2B	-	ISRO	-	-	-	-	TERLS	-	-	-	150?	-	-
1979-M147	2443926.13	1979 Feb 21 1505	Centaure 2B	-	ISRO	-	-	-	-	TERLS	-	-	-	72	-	-
1979-S311	2443932.50	1979 Mar	Centaure 2B	-	ISRO 5.50	ISRO 5.50	-	-	-	TERLS	-	-	-	150?	-	-
1979-S260	2444110.76	1979 Aug 25 0621	Centaure 2B	-	ISRO 5.55	ISRO-CNES I	-	-	-	TERLS	-	-	-	150	-	-
1979-S261	2444116.74	1979 Aug 31 0551	Centaure 2B	-	ISRO 5.56	ISRO-CNES II	-	-	-	TERLS	-	-	-	150	-	-
1979-S242	2444192.50	1979 Nov 15	Centaure 2B	-	-	AST 2	-	-	-	TERLS	-	-	-	148	-	-
1979-S320	2444236.50	1979 Dec 29	Centaure 2B	-	-	AST 3a	-	-	-	TERLS	-	-	-	119	-	-
1980-S47	2444285.89	1980 Feb 16 0924	Centaure 2B	-	ISRO 5.60	Eclipse D1	-	-	-	TERLS	-	-	-	140	-	-
1980-S49	2444285.91	1980 Feb 16 0952	Centaure 2B	-	ISRO 5.61	Eclipse D2	-	-	-	TERLS	-	-	-	140	-	-
1980-S51	2444286.06	1980 Feb 16 1325	Centaure 2B	-	ISRO 5.63	Eclipse Ba/Li	-	-	-	TERLS	-	-	-	140	-	-
1980-S53	2444286.91	1980 Feb 17 0952	Centaure 2B	-	ISRO 5.64	Eclipse D3	-	-	-	TERLS	-	-	-	140	-	-
1980-S52	2444286.50	1980 Feb 17	Centaure 2B	-	ISRO 5.65/C.59	NO Photometer	-	-	-	TERLS	-	-	-	150?	-	-
1980-S242	2444287.58	1980 Feb 18 0150	Centaure 2B	-	-	O3 Photometer	-	-	-	TERLS	-	-	-	100?	-	-
1981-S188	2444639.71	1981 Feb 4 0500	Centaure 2B	?	ISRO C.76	Langmuir/E Field	-	-	-	TERLS	-	-	-	150?	-	-
1981-S189	2444647.73	1981 Feb 12 0527	Centaure 2B	-	ISRO C.77	Langmuir/E Field	-	-	-	TERLS	-	-	-	158	-	-
1981-S190	2444694.50	1981 Apr	Centaure 2B	?	-	AST 3b?	-	-	-	TERLS	-	-	-	150?	-	-
1982-S286	2444999.75	1982 Jan 30 0559	Centaure 2B	?	ISRO C.73	Langmuir/E Field	-	-	-	TERLS	-	-	-	150?	-	-
1982-S287	2445039.60	1982 Mar 11 0230	Centaure 2B	-	-	Atmosphere/Ionosphere	-	-	-	TERLS	-	-	-	150?	-	-
1986-S122	2446496.71	1986 Mar 7 0500	Centaure 2B	?	-	D-REG IONIZ. COMP.	-	-	-	TERLS	-	-	-	140	-	-
1988-S187	2447285.50	1988 May 4	Centaure 2B	-	-	Propagation experiment	-	-	-	TERLS	-	-	-	150?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1961-S161	2437446.50	1961 May 27	Centaure	-	C03	0.000	CNES	SS	-	CNET/	Test	Serra	-	-
1961-S163	2437448.50	1961 May 29	Centaure	-	C04	0.000	CNES	SS	-	CNET/	Test	Serra	-	-
1961-S408	2437639.50	1961 Dec 6	Centaure	-	C02	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1961-S409	2437639.50	1961 Dec 6	Centaure	-	C06	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1961-S416	2437642.50	1961 Dec 9	Centaure	-	C05	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1961-S417	2437642.75	1961 Dec 9 0605	Centaure	-	C07	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CR-86314	CNES	-
1961-S418	2437642.50	1961 Dec 9	Centaure	-	C08	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S135	2437802.50	1962 May 18	Centaure	-	C10	0.000	CNES	SS	-	CNET/	Test	CNES	-	-
1962-S145	2437813.50	1962 May 29	Centaure	-	C12	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S146	2437813.50	1962 May 29	Centaure	-	C15	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S147	2437813.50	1962 May 29	Centaure	-	C18	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S162	2437820.50	1962 Jun 5	Centaure	-	C14	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S163	2437820.50	1962 Jun 5	Centaure	-	C16	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S164	2437820.50	1962 Jun 5	Centaure	-	C17	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S165	2437820.50	1962 Jun 5	Centaure	-	C19	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S166	2437820.50	1962 Jun 5	Centaure	-	C09	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S490	2437994.50	1962 Nov 26	Centaure	-	C20	0.000	CNES	SS	-	CNRS/Murtin	Aeronomy	CNES	-	-
1962-S493	2437996.48	1962 Nov 27 2337	Centaure	-	C30	0.000	CNES	SS	-	CNRS/CNIE/Blam,Tabanera	Aeronomy	DeLeon	CNES	-
1962-S498	2437997.23	1962 Nov 28 1736	Centaure	-	C32	0.000	CNES	SS	-	CNRS/UCL/Murtin,Bowen	Ionos	PlanSpaSci12,1173	SR5,1011	-
1962-S511	2437999.23	1962 Nov 30 1736	Centaure	-	C11	0.000	CNES	SS	-	CNRS/UCL/Murtin,Bowen	Ionos	PlanSpaSci12,1173	SR5,1011	-
1962-S512	2437998.50	1962 Nov 30	Centaure	-	C26	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S513	2437998.85	1962 Nov 30 0817	Centaure	-	C29	0.000	CNES	SS	-	CNRS/CNIE/Blamont	Aeronomy	DeLeon	CNES	-
1962-S514	2437998.50	1962 Nov 30	Centaure	-	C37	0.000	CNES	SS	-	CNRS/MPE/Blamont,Lust	Aeronomy	CNES	-	-
1962-A209	2437999.50	1962 Dec 1	Centaure	-	C27	0.000	CNES	SF	U	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S523	2438002.50	1962 Dec 4	Centaure	-	C21	0.000	CNES	SS	-	CNRS/Murtin	Aeronomy	CNES	-	-
1962-S545	2438006.50	1962 Dec 8	Centaure	-	C28	0.000	CNES	SS	-	CNRS/CNIE/Blamont	Aeronomy	CNES	-	-
1962-S547	2438007.50	1962 Dec 9	Centaure	-	C31	0.000	CNES	SS	-	CNRS/CNIE/Blamont	Aeronomy	CNES	-	-
1962-S554	2438010.50	1962 Dec 12	Centaure	-	C24	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S555	2438010.50	1962 Dec 12	Centaure	-	C25	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S130	2438120.50	1963 Apr 1	Centaure	?	-	0.000	CNES	SS	-	CNRS/?	Ionos	WDCRF	-	-
1963-S200	2438163.50	1963 May 14	Centaure	-	C51	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S202	2438165.27	1963 May 15 1822	Centaure	-	C42	0.000	CNES	SS	-	CNRS/MPE/Blamont,Lust	Aeronomy	CNES	-	-
1963-S221	2438170.50	1963 May 21	Centaure	-	C45	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S222	2438170.50	1963 May 21	Centaure	-	C48	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S223	2438171.27	1963 May 21 1825	Centaure	-	C43	0.000	CNES	SS	-	CNRS/MPE/Blamont,Lust	Aeronomy	CNES	-	-
1963-S234	2438173.50	1963 May 24	Centaure	-	C41	0.000	CNES	SF	U	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S238	2438174.50	1963 May 25	Centaure	-	C35	0.000	CNES	SS	-	CNRS/CNIE/Blamont	Aeronomy	CNES	CNES	-
1963-S245	2438179.50	1963 May 30	Centaure	-	C36	0.000	CNES	SS	-	CNRS/CNIE/Blamont?	Aeron?	Serra	CNES	Not in DeLeon
1963-S246	2438179.50	1963 May 30	Centaure	-	C39	0.000	CNES	SS	-	CNRS/CNIE/Blamont	Aeronomy	CNES	CNES	-
1963-S270	2438193.28	1963 Jun 12 1839	Centaure 1	-	C54	0.000	CNES	SS	-	CNRS/UCL/Murtin,Bowen	Ionos	PlanSpaSci12,1173	SR5,1011	-
1963-S274	2438193.50	1963 Jun 13	Centaure 1	-	C55	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1963-S276	2438194.50	1963 Jun 14	Centaure 1	-	C53	0.000	CNES	SS	-	CNRS/Sidi,Barat	Aeronomy	CNES	-	-
1964-S81	2438435.27	1964 Feb 9 1823	Centaure 1	-	C13	0.000	CNES	SS	-	CNRS/Sidi,Barat	Aeronomy	AnnGeo20,342	CNES	-
1964-S86	2438437.50	1964 Feb 12	Centaure 1	-	C52	0.000	CNES	SF	U	CNRS/Sidi,Barat	Aeronomy	CNES	-	-
1964-S87	2438437.50	1964 Feb 12	Centaure 1	-	C44	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S88	2438437.50	1964 Feb 12	Centaure 1	-	C56	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S91	2438438.71	1964 Feb 13 0500	Centaure 1	-	C57	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES/SR8,444	-	-
1964-S92	2438438.50	1964 Feb 13	Centaure 1	-	C40	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S97	2438439.69	1964 Feb 14 0437	Centaure 1	-	C38	0.000	CNES	SS	-	MPE/Lust	Aeronomy	CNES	PlanSpaceSci15,357	-
1964-S99	2438440.69	1964 Feb 15 0437	Centaure 1	-	C34	0.000	CNES	SS	-	MPE/Lust	Aeronomy	CNES	PlanSpaceSci15,357	-
1964-S200	2438496.50	1964 Apr 11	Centaure 1	-	C58	0.000	CNES	SS	-	CNRS/	Aeronomy	CNES	SR6,383	-
1964-S204	2438498.50	1964 Apr 13	Centaure 1	-	C59	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	SR6,383	-
1964-S231	2438519.50	1964 May 4	Centaure 1	-	C60	0.000	CNES	SS	-	CNET/Clauvel	Ionos	CNES	-	-
1964-S235	2438524.27	1964 May 8 1822	Centaure 1	-	C33	0.000	CNES	SS	-	CNET/Clauvel	Ionos	RadioSci1,170	CNES	-
1964-S236	2438525.50	1964 May 10	Centaure 1	-	C22	0.000	CNES	SF	U	GRI/Murtin	Aeronomy	CNES	-	-
1964-S237	2438525.50	1964 May 10	Centaure 1	-	C46	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S243	2438529.50	1964 May 14	Centaure 1	-	C23	0.000	CNES	SS	-	GRI/Murtin	Aeronomy	CNES	-	-
1964-S502	2438674.15	1964 Oct 5 1530	Centaure 1	-	C62	0.000	CNES	SS	-	CNET/Clauvel	Ionos	RadioSci1,170	CNES	-
1964-S505	2438676.15	1964 Oct 7 1542	Centaure 1	-	C63	0.000	CNES	SS	-	CNET/Clauvel	Ionos	RadioSci1,170	CNES	-
1964-S551	2438698.47	1964 Oct 29 2318	Centaure 1	-	-	0.000	ESRO	SS	-	LPA/	Aeronomy	ESRO64	-	-
1964-S573	2438703.85	1964 Nov 4 0831	Centaure 1	-	C78	0.000	CNIE	SS	-	ONUSJ/Lopez	Aeron	WDCRF	-	-
1964-S576	2438704.50	1964 Nov 5	Centaure 1	-	C69	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S577	2438704.50	1964 Nov 5	Centaure 1	-	C47	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S578	2438704.50	1964 Nov 5	Centaure 1	-	C64	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S579	2438704.50	1964 Nov 5	Centaure 1	-	C72	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S580	2438704.50	1964 Nov 5	Centaure 1	-	C67	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S586	2438705.47	1964 Nov 5 2316	Centaure 1	-	C80	0.000	CNIE	SS	-	ONUSJ/Lopez	Aeron	WDCRF	-	-
1964-S590	2438705.50	1964 Nov 6	Centaure 1	-	C66	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S591	2438705.50	1964 Nov 6	Centaure 1	-	C71	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1964-S595	2438705.85	1964 Nov 6 0831	Centaure 1	-	C79	0.000	CNIE	SS	-	ONUSJ/Lopez	Aeron	WDCRF	-	-
1964-S651	2438727.23	1964 Nov 27 1738	Centaure 1	-	C75/EXP-9	0.000	CNES	SS	-	MPE/Haerendel,Lust	Aeronomy	WDCRF	PlanSpaceSci15,357	-
1964-S660	2438730.23	1964 Nov 30 1737	Centaure 1	-	C76/EXP-10	0.000	CNES	SS	-	MPE/Haerendel,Lust	Aeronomy	WDCRF	PlanSpaceSci15,357	-
1965-S131	2438823.50	1965 Mar 4	Centaure 1	-	C85	0.000	CNES	SS	-	CNRS/Quessette	Solar?	CNES	-	-
1965-S258	2438879.50	1965 Apr 28 2357	Centaure 1	-	C99	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron/Ionos	WDCRF	Serra	-
1965-S272	2438882.49	1965 May 1 2343	Centaure 1	-	C100	0.000	ISRO	SS	-	PRL/Bhavsar	Ionos	WDCRF	Serra	-
1965-S368	2438933.50	1965 Jun 22	Centaure 1	-	C106	0.000	CNES	SF	U	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S373	2438934.50	1965 Jun 23	Centaure 1	-	C61	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S374	2438934.50	1965 Jun 23	Centaure 1	-	C65	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S375	2438934.50	1965 Jun 23	Centaure 1	-	C50	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S376	2438934.50	1965 Jun 23	Centaure 1	-	C95	0.000	CNES	SF	U	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S384	2438935.50	1965 Jun 24	Centaure 1	-	C84	0.000	CNES	SF	U	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S385	2438935.50	1965 Jun 24	Centaure 1	-	C74	0.000	CNES	SF	U	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S386	2438935.50	1965 Jun 24	Centaure 1	-	C86	0.000	CNES	SS	-	CNRS/Chanin ?	Aeronomy	CNES	Serra	-
1965-S387	2438935.50	1965 Jun 24	Centaure 1	-	C83	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	CNES	-	-
1965-S630	2439083.24	1965 Nov 18 1745	Centaure 1	-	C119	0.000	CNES	SS	-	MPE/Haerendel,Neuss	Aeronomy	CNES	-	-
1965-S632	2439084.24	1965 Nov 19 1745	Centaure 1	-	C120	0.000	CNES	SS	-	MPE/Haerendel,Neuss	Aeronomy	CNES	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S648	2439089.69	1965 Nov 25 0440	Centaure 1	-	C91	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1965-S649	2439089.85	1965 Nov 25 0824	Centaure 1	-	C93	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1965-S651	2439090.85	1965 Nov 26 0824	Centaure 1	-	C96	0.000	CNIE	SS	-	ONUSJ/Zaragoza	Aeron	WDCRF	-	-
1965-S666	2439101.66	1965 Dec 7 0353	Centaure 1	-	-	0.000	ESRO	SS	-	BONN/Mauersberger	Aeron	ESRO-SP-76	-	-
1965-S674	2439105.67	1965 Dec 11 0405	Centaure 1	-	-	0.000	ESRO	SS	-	BONN/Mauersberger	Aeronomy	ESRO64	SR-VII-1150	-
1965-S680	2439109.03	1965 Dec 14 1249	Centaure 1	-	CE-6	0.000	ESRO	SS	-	UTR/LUX/UCL/	Solar X	ESRO-SP-76	Massey	-
1965-S686	2439110.50	1965 Dec 16	Centaure 1	-	C128	0.000	CNES	SS	-	GRI/Murtin	Ionos	CNES	-	-
1965-S685	2439110.50	1965 Dec 16	Centaure 1	-	C131	0.000	CNES	SS	-	GRI/Murtin	Ionos	CNES	-	-
1965-S687	2439110.50	1965 Dec 16	Centaure 1	-	C94	0.000	CNES	SS	-	CNRS/Murtin	Aeronomy	CNES	-	-
1965-S691	2439114.50	1965 Dec 20	Centaure 1	-	C130	0.000	CNES	SS	-	GRI/Murtin	Ionos	CNES	-	-
1966-S59	2439134.05	1966 Jan 8 1311	Centaure 1	-	C103	0.000	ISRO	SS	-	PRL/Bhavsar,Prakash	Aeron/Ionos	WDCRF	Serra	-
1966-S63	2439143.25	1966 Jan 17 1756	Centaure 1	-	C127	0.000	CNES	SS	-	GRI/Murtin	Ionos	CNES	-	-
1966-S98	2439161.47	1966 Feb 4 2319:32	Centaure 1	-	CE-16	0.000	ESRO	SS	-	UCL/SHEF/Boyd	Auroral/Ionos	AND	WDCRF	-
1966-A36	2439167.59	1966 Feb 11 0203:15	Centaure 1	-	CE-15	0.000	ESRO	SF	U	UCL/SHEF/Boyd	Auroral/Ionos	AND	WDCRF	-
1966-S126	2439179.27	1966 Feb 22 1828:56	Centaure 1	-	CE-13	0.000	ESRO	SS	-	KGO/UCL/Riedler,Norman	Auroral	AND	WDCRF	-
1966-S128	2439180.47	1966 Feb 23 2314:52	Centaure 1	-	CE-14	0.000	ESRO	SS	-	KGO/UCL/Riedler,Norman	Auroral	AND	WDCRF	-
1966-S149	2439188.43	1966 Mar 3 2226	Centaure 1	-	C77	0.000	CNES	SS	-	CNRS/Do	Solar UV	CNES	-	-
1966-S155	2439194.43	1966 Mar 9 2220:21	Centaure 1	-	CE-12	0.000	ESRO	SS	-	BREI/UCL/RSRS/Rawer	Auroral	AND	WDCRF	-
1966-S159	2439195.43	1966 Mar 10 2225:32	Centaure 1	-	CE-11	0.000	ESRO	SS	-	BREI/UCL/RSRS/Rawer	Auroral	AND	ESRO66	-
1966-S185	2439209.20	1966 Mar 24 1645	Centaure 1	-	C101	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron	WDCRF	-	-
1966-S187	2439209.38	1966 Mar 24 2100	Centaure 1	-	C102	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron	WDCRF	-	-
1966-S263	2439260.71	1966 May 15 0502	Centaure 1	-	CE-5	0.000	ESRO	SS	-	UTR/LUX/Stewardsn,DJ	Solar X	ESRO-SP-77	-	-
1966-S269	2439265.90	1966 May 20 0930:30	Centaure 1	-	CE-19	0.000	ESRO	SS	-	UTR/UCL/MPE/Boyd,Bol	Solar UV	WDCRF	ESRO-SP77	-
1966-S270	2439265.99	1966 May 20 1140:00	Centaure 1	-	CE-20	0.000	ESRO	SS	-	UTR/UCL/MPE/Boyd,Bol	Solar UV	WDCRF	ESRO-SP77	-
1966-S314	2439290.32	1966 Jun 13 1938	Centaure 1	-	C68	0.000	CNES	SS	-	CNRS/Tetelbaum	Aeronomy	WDCRF/CNES	CNES	-
1966-S319	2439292.50	1966 Jun 16	Centaure 1	-	C70	0.000	CNES	SS	-	CNRS/Tetelbaum	Aeronomy	CNES	-	-
1966-S534	2439406.50	1966 Oct 8	Centaure 1	-	C140	0.000	CNES	SS	-	CNES/Cade	Test	CNES	-	-
1966-S618	2439443.98	1966 Nov 14 1128:21	Centaure 1	-	C105	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	GT12PAO	CNES	-
1966-S619	2439444.04	1966 Nov 14 1303:14	Centaure 1	-	C139	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	GT12PAO	CNES	-
1966-S642	2439449.49	1966 Nov 19 2342:36	Centaure 1	-	-	0.000	ESRO	SS	-	UTR/LIEGE/DeJager	Auroral/CR	ESRO-SP77	ESRO66	-
1966-S659	2439458.55	1966 Nov 29 0106:39	Centaure 1	-	CE-8	0.000	ESRO	SS	-	MSSL/BREI/Boyd,Rawer	Auroral	WDCRF	SR9,246	-
1966-S665	2439460.42	1966 Nov 30 2204:16	Centaure 1	-	CE-7	0.000	ESRO	SS	-	MSSL/BREI/Boyd,Rawer	Auroral	WDCRF	SR9,246	-
1967-S116	2439526.50	1967 Feb 4 2353:31	Centaure 1	-	CE-22	0.000	ESRO	SS	-	UTR/LIEGE/DeJager	Auroral/CR	WDCRF	-	-
1967-S121	2439537.82	1967 Feb 16 0737:15	Centaure 1	-	CE-9	0.000	ESRO	SS	-	MSSL/BREI/Boyd	Ionospheric	WDCRF	-	-
1967-S125	2439543.80	1967 Feb 22 0712:25	Centaure 1	-	CE-10	0.000	ESRO	SS	-	MSSL/BREI/Boyd	Ionospheric	WDCRF	-	-
1967-S175	2439577.50	1967 Mar 28	Centaure 1	-	C145	0.000	CNES	SS	-	CNRS/Chanin	Aeronomy	CNES	-	-
1967-S222	2439600.18	1967 Apr 19 1619:10	Centaure 2B	-	CE-24/1	0.000	ESRO	SS	-	ESTEC/AESPC/Spite	Test	ssc.se	ESRO67	-
1967-S223	2439599.76	1967 Apr 19 0614	Centaure 1	-	C87	0.000	ISRO	SS	-	PRL/Prakash	Ionos	WDCRF	Serra	-
1967-S242	2439614.10	1967 May 3 1429	Centaure 1	-	Rehbar 15	0.000	SUPA/CNES	SS	-	CNRS/SUPA/Blamont,S-A	Aeron	WDCRF	AirEtCos199	-
1967-S251	2439618.10	1967 May 7 1430	Centaure 1	-	Rehbar 16	0.000	SUPA/CNES	SS	-	CNRS/SUPA/Blamont,S-A	Aeron	WDCRF	SR9,354	-
1967-S363	2439702.52	1967 Jul 31 0031:18	Centaure 2B	-	CE-30	0.000	ESRO	SS	-	RTG/Witt	Aeronomy	WDCRF	-	-
1967-S364	2439702.54	1967 Jul 31 0058:23	Centaure 2B	-	CE-31	0.000	ESRO	SS	-	MPIK/LUND/Sitte,Lindblad	Meteorite	WDCRF	SR9,190	-
1967-S643	2439739.50	1967 Sep 6	Centaure 1	-	C143	0.000	CNIE	SS	-	CNIE/	Aeron Na	AASH33-143	-	-
1967-S526	2439740.50	1967 Sep 7	Centaure 1	-	C92	0.000	CNIE	SS	-	CNIE/	Aeron TMA	AASH33-143	-	-
1967-S644	2439740.50	1967 Sep 7	Centaure 1	-	C144	0.000	CNIE	SS	-	CNIE/	Aeron Na	AASH33-143	-	-
1967-S546	2439818.57	1967 Nov 24 0137:10	Centaure 2B	-	CE-36	0.000	ESRO	SF	U	MSSL/RSRS/DTU/Boyd	Ionospheric	ssc.se	Massey	-
1967-S551	2439821.32	1967 Nov 26 1944:22	Centaure 1	-	CE-17	0.000	ESRO	SS	-	BREI/DSRI/Rawer	Ionospheric	ESRO-SP78	SR9,246	-
1967-S572	2439831.39	1967 Dec 6 2121:12	Centaure 1	-	CE-2	0.000	ESRO	SS	-	BREI/DSRI/Rawer	Ionospheric	WDCRF	SR9,246	-
1968-S106	2439887.74	1968 Feb 1 0542:00	Centaure 2B	?	CE-34	0.000	ESRO	SS	-	UCL/Groves,Jaeschke	Aeronomy	WDCRF	JBIS24,233	-
1968-S118	2439889.07	1968 Feb 2 1340	Centaure 1	-	C90	0.000	ISRO	SS	-	PRL/Bhavsar	Aeron	WDCRF	-	-
1968-S120	2439890.73	1968 Feb 4 0533:05	Centaure 2B	?	CE-35	0.000	ESRO	SS	-	UCL/Groves,Jaeschke	Aeronomy	WDCRF	JBIS24,233	-
1968-S139	2439908.32	1968 Feb 21 1940	Centaure 1	-	C88	0.000	ISRO	SS	-	PRL/GMS/Shirke,Golishev	Aeron	WDCRF	SR9,508	-
1968-S147	2439908.98	1968 Feb 22 1125	Centaure 1	-	C89	0.000	ISRO	SS	-	PRL/GMS/Shirke,Golishev	Aeron	WDCRF	SR9,508	-
1968-S170	2439922.40	1968 Mar 6 2135:09	Centaure 2B	-	CE-37	0.000	ESRO	SS	-	MSSL/Boyd,Hultqvist	Ionospheric	WDCRF	ESRO-SP-79	-
1968-S205	2439939.09	1968 Mar 23 1405	Centaure 1	-	C155	0.000	SUPA	SS	-	SUPA/CNET/Ahmad,Chan.	Aeron	SR10,561	-	-
1968-S251	2439949.53	1968 Apr 3 0038	Centaure 1	-	C158	0.000	SUPA	SS	-	SUPA/CNET/Ahmad,Chan.	Aeron	SR10,561	-	-
1968-M10	2439984.99	1968 May 8 1147:25	Centaure 1	-	CE-46 (C152)	0.000	ESRO	SS	-	MPAE/Dieminger	Ionospheric	ESRO-SP-79	JBIS24,215	-
1968-M11	2439991.98	1968 May 15 1124:00	Centaure 1	-	CE-47 (C153)	0.000	ESRO	SS	-	MPAE/Dieminger	Ionospheric	ESRO-SP-79	ESRO68	1224/JGR
1968-S333	2439997.16	1968 May 20 1551:20	Centaure 2B	-	CE-38	0.000	ESRO	SS	-	LUND/MPIK/Lindblad	Meteorites	SR10,295	-	-
1968-S363	2440015.14	1968 Jun 7 1525:45	Centaure 2B	-	CE-44	0.000	ESRO	SS	-	LUND/MPIK/Lindblad	Meteorites	SR10,295	-	-
1968-S366	2440016.38	1968 Jun 8 2101:16	Centaure 2B	-	CE-32	0.000	ESRO	SS	-	LUND/MPIK/Lindblad	Meteorites	WDCRF	SR10,295	-
1968-S429	2440068.45	1968 Jul 30 2253:30	Centaure 2B	-	CE-31	0.000	ESRO	SS	-	RTG/Witt	Aeronomy	WDCRF	-	-
1968-S526	2440137.99	1968 Oct 8 1142:57	Centaure 2B	-	CE-48	0.000	ESRO	SS	-	BOL/ESTEC/Brini,Page	XR Astronomy	WDCRF	ESRO68	-
1968-S535	2440145.19	1968 Oct 15 1632:00	Centaure 2B	-	CE-39	0.000	ESRO	SS	-	CNRS/UCL/Groves,Blamont	Aeronomy	ESRO-SP-79	JBIS24,233	-
1968-S564	2440161.69	1968 Nov 1 0440:00	Centaure 2B	-	CE-50	0.000	ESRO	SS	-	CNRS/UCL/Groves,Blamont	Aeronomy	ESRO-SP-79	JBIS24,233	-
1968-S566	2440163.64	1968 Nov 3 0319	Centaure 1	-	C104	0.000	ISRO	SS	-	ISRO/PRL/Rao,Chitnis	XR Astron	WDCRF	-	-
1969-M05	2440262.07	1969 Feb 9 1346	Centaure 1	-	-	0.000	SUPA	SF	U	SUPA/Shafi-Ahmed	Aeron	WDCRF	-	-
1969-A43	2440266.08	1969 Feb 13 1348	Centaure 1	-	-	0.000	SUPA	SF	U	SUPA/Shafi-Ahmed	Aeronomy	WDCRF	-	-
1969-S151	2440278.19	1969 Feb 25 1633:20	Centaure 2B	-	CE	0.000	ESRO	SS	-	UTR/KIEL/Reidler	Auroral	ESRO69	SR10,831	-
1969-S152	2440278.49	1969 Feb 25 2350:04	Centaure 2B	-	CE	0.000	ESRO	SS	-	UTR/KIEL/DeJager	Auroral	ESRO69	SR10,831	-
1969-S153	2440278.92	1969 Feb 26 1000:00	Centaure 2A	-	ISRO-45.002	0.000	ISRO	SU	-	PRL/Degaonkar	Ionos	WDCRF	SR10,703	-
1969-S195	2440296.44	1969 Mar 15 2231:02	Centaure 2B	-	C52/1	0.000	ESRO	SS	-	LIEGE/Monfils	Auroral	ESRO-SP80	SR12,1391	-
1969-S245	2440312.10	1969 Mar 31 1418	Centaure 2A	-	-	0.000	SUPA	SS	-	SUPA/CNES/ShafiAhmad	Aeron	SR11,830	-	-
1969-A59	2440326.26	1969 Apr 14 1815:00	Centaure 2B	-	C39/1	0.000	ESRO	SF	U	BREI/TLS/KGO/Rawer	Auroral	WDCRF	-	-
1969-S270	2440326.96	1969 Apr 15 1103:00	Centaure 2B	-	C39/2	0.000	ESRO	SS	-	BREI/TLS/KGO/Rawer	Auroral	WDCRF	-	-
1969-S357	2440378.31	1969 Jun 5 1927:53	Centaure 2B	-	C35/2	0.000	ESRO	SS	-	BOL/ESTEC/Brini,Page	XR Astronomy	ESRO69	ESRO69	-
1969-S401	2440413.02	1969 Jul 10 1231	Centaure 1	-	C81	0.000	CNES	SS	-	CNRS/Do	Aeronomy	CNES	-	-
1969-S402	2440413.24	1969 Jul 10 1750	Centaure 1	-	C82	0.000	CNES	SS	-	CNRS/Do	Aeronomy	CNES	-	-
1969-S449	2440444.56	1969 Aug 11 0130:00	Centaure 2B	-	C51/1	0.000	ESRO	SS	-	DFF/MISU/Rossler,Witt	Aeronomy	ESRO69	SR12,1379	-
1969-S453	2440447.63	1969 Aug 14 0301:00	Centaure 2B	-	C58/1	0.000	ESRO	SS	-	MPIK/Zahringer	Meteorites	ESRO-SP80	SR11,335	-
1969-S536	2440505.33	1969 Oct 10 2001:31	Centaure 2B	-	C52/2	0.000	ESRO	SS	-	LIEGE/Monfils	Auroral	AnnalesGeo27,493	ESRO69	-
1969-S638	2440552.73	1969 Nov 27 0529:00	Centaure 2B	-	C62/1	0.000	ESRO	SS	-	MPAE/BREI/Wilhelm,Rawer	Auroral	SR12,1437	ESRO69	-
1969-S639	2440552.77	1969 Nov 27 0631:00	Centaure 2B	-	C62/2	0.000	ESRO	SS	-	MPAE/BREI/Wilhelm,Rawer	Auroral	SR12,1437	ESRO69	-
1969-S652	2440562.52	1969 Dec 7 0035:00	Centaure 2A	-	ISRO-45.003	0.000	ISRO	SU	-	PRL/Chitnis,Rao	Test/Ionos/XR Astron	Nature229,248	WDCRF	-
1970-S100	2440621.73	1970 Feb 4 0526	Centaure 2B	-	C57/1	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1970-S136	2440641.20	1970 Feb 23 1649:40	Centaure 2B	-	C37/1	0.000	ESRO	SS	-	MPE/Rieger	Ionospheric Ba	WDCRF/ESRLV	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1970-S279	2440679.56	1970 Apr 3 0122	Centaure 2B	-	C57/2	0.000	ESRO	SS	-	UCL/Scott	Aeronomy	WDCRF	-	-
1970-S388	2440744.81	1970 Jun 7 0725:50	Centaure 2B	-	C48/1	0.000	ESRO	SS	-	MSSL/UTR/Bowles,DeJ	Solar UV	WDCRF/ESRLV	-	-
1970-S476	2440808.49	1970 Aug 9 2339:40	Centaure 2B	-	C58/2	0.000	ESRO	SS	-	MPIK/UIO/Stoffregen	Ionos/Meteorites	WDCRF/ESRLV	SR12,391	-
1970-S477	2440808.53	1970 Aug 10 0050	Centaure 2B	-	C51/2	0.000	ESRO	SS	-	RTG/Witt	Aeronomy	WDCRF	SR12,1379	-
1970-S489	2440817.96	1970 Aug 19 1103	Centaure 2B	-	C48/2	0.000	ESRO	SS	-	MSSL/UTR/Bowles,DeJ	Solar UV	WDCRF	-	-
1971-A02	2440958.52	1971 Jan 7 0027	Centaure 2A	-	ISRO 5.12	0.000	ISRO	SF	U	ISRO/PRL/AbdulKalam	Test/Aeron	WDCRF	ISTS10-1166	-
1971-S69	2440969.12	1971 Jan 17 1448:10	Centaure 2B	-	C37/2	0.000	ESRO	SS	-	MPE/Rieger	Ionospheric Ba	WDCRF/ESRLV	-	-
1971-S87	2440977.03	1971 Jan 25 1238	Centaure 2B	-	C60/1	0.000	ESRO	SS	-	KIEL/Witte	CR/particles	WDCRF	-	-
1971-S90	2440977.95	1971 Jan 26 1050	Centaure 2B	-	C60/2	0.000	ESRO	SS	-	KIEL/Witte	CR/particles	WDCRF	-	-
1971-S96	2440979.46	1971 Jan 27 2302:45	Centaure 2B	-	C78/1	0.000	ESRO	SS	-	MPAE/Rawer	Auroral	WDCRF/ESRLV	-	-
1971-S255	2441068.32	1971 Apr 26 1934	Centaure 1	-	C136	0.000	CNES/INTA	SS	-	CNRS/INTA/Azcarraga	Aeronomy	WDCRF	CNES	-
1971-S305	2441098.33	1971 May 26 2000	Centaure 1	-	C141	0.000	CNES/INTA	SS	-	CNRS/INTA/Azcarraga	Aeronomy/Ionos	WDCRF	CNES	-
1971-S309	2441098.69	1971 May 27 0436	Centaure 1	-	C137	0.000	CNES/INTA	SS	-	CNRS/INTA/Azcarraga	Aeronomy	WDCRF	CNES	-
1971-S310	2441099.33	1971 May 27 2000	Centaure 1	-	C142	0.000	CNES/INTA	SS	-	CNRS/INTA/Azcarraga	Aeronomy	WDCRF	CNES	-
1971-S377	2441163.51	1971 Jul 31 0021	Centaure 2C	-	C59/1	0.000	ESRO	SS	-	RTG/Witt	Aeronomy	WDCRF	ESRO-SP34	-
1971-S380	2441164.51	1971 Aug 1 0009	Centaure 2C	-	C59/2	0.000	ESRO	SS	-	RTG/Witt	Aeronomy	ssc.se	ESRO-SP34	-
1971-S441	2441207.50	1971 Sep 13	Centaure 1	-	C133	0.000	CNES	SS	-	CNRS/	Aeronomy	CNES	-	-
1971-S452	2441214.42	1971 Sep 19 2200	Centaure 1	-	C132	0.000	CNES	SS	-	CNRS/	Aeronomy	CNES	-	-
1971-S453	2441214.42	1971 Sep 19 2200	Centaure 1	-	C146	0.000	CNES	SS	-	CNRS/	Aeronomy	CNES	-	-
1971-S530	2441243.08	1971 Oct 18 1400	Centaure 1	-	C154	0.000	CNES	SS	-	ISRO/	Recovery Test	ISTS10-1166	-	-
1971-S568	2441278.34	1971 Nov 22 2007:40	Centaure 2B	-	CE-67	0.000	ESRO	SS	-	LIEGE/RSRS/Wenzel,Bryant	Auroral	ssc.se	-	-
1972-S46	2441338.29	1972 Jan 21 1902:20	Centaure 2C	-	C76/1	0.000	ESRO	SS	-	KGO/RSRS/Hultqvist	Particles/Auroral	WDCRF	-	-
1972-S48	2441338.54	1972 Jan 22 0058:30	Centaure 2C	-	C76/2	0.000	ESRO	SS	-	KGO/RSRS/Hultqvist	Particles/Auroral	WDCRF	-	-
1972-S153	2441415.10	1972 Apr 7 1420	Centaure 1	-	Rehbar 23	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron/Ionos	WDCRF	-	-
1972-S154	2441416.10	1972 Apr 8 1418	Centaure 1	-	Rehbar 24	0.000	SUPA	SS	-	SUPA/Rahmatullah	Aeron/Ionos	WDCRF	-	-
1972-S286	2441541.59	1972 Aug 12 0215	Centaure 2A	-	ISRO 5.14	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	SR17,393	-
1972-S287	2441546.92	1972 Aug 17 1002	Centaure 2A	-	ISRO 5.16	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	SR16,401	-
1972-S348	2441604.29	1972 Oct 13 1857	Centaure 2A	-	ISRO 5.17	0.000	ISRO/CNES	SS	-	PRL/Prakash	Fields	WDCRF	-	-
1973-S22	2441703.90	1973 Jan 21 0940	Centaure 2A	-	ISRO 5.15	0.000	ISRO	SS	-	TIFR/Naranan,Iyengar	XR Astron	WDCRF	ICRC14-1.148	SFLT17-98
1973-S56	2441716.30	1973 Feb 2 1905	Centaure 2A	-	ISRO 5.18	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	-	-
1973-S92	2441744.75	1973 Mar 3 0605	Centaure 2A	-	ISRO 5.19	0.000	ISRO/CNES	SS	-	PRL/Prakash	Fields	WDCRF	ESA-SP-115	-
1973-S148	2441784.24	1973 Apr 11 1750	Centaure 2A	-	ISRO 5.20	0.000	ISRO	SS	-	ISRO/Naranan	Fields	WDCRF	-	-
1973-S228	2441867.55	1973 Jul 4 0115	Centaure 2A	-	ISRO 5.21	0.000	ISRO	SF	U	PRL/Somayajulu	Fields?	WDC	-	-
1974-S107	2442099.21	1974 Feb 20 1701:16	Centaure 2C	-	ESRO C111/1	0.000	ESTEC	SS	-	STO/Fahleson	Auroral	ESA-TN-132	ESRO74	-
1974-S109	2442099.27	1974 Feb 20 1822:22	Centaure 2C	-	ESRO C111/2	0.000	ESTEC	SS	-	STO/Fahleson	Auroral	ESA-TN-132	ESRO74	-
1974-S539	2442211.50	1974 Jun 13	Centaure 2B	-	ISRO 5.22?	0.000	ISRO	SS	-	ISRO/	Test	BHRI	-	-
1974-S299	2442302.50	1974 Sep 12	Centaure 2C	-	ESRO C99/1 C207	0.000	CNES/ESTEC	SS	-	IASB/Nicolet	Aeron	Serra	-	-
1974-S300	2442302.50	1974 Sep 12	Centaure 2C	-	ESRO C99/2 C201	0.000	CNES/ESTEC	SS	-	IASB/Nicolet	Aeron	Serra	-	-
1974-S301	2442303.50	1974 Sep 13	Centaure 2C	-	ESRO C99/3 C209	0.000	CNES/ESTEC	SS	-	IASB/Nicolet	Aeron	Serra	-	-
1975-S67	2442452.74	1975 Feb 9 0550	Centaure 2B	-	ISRO 5.23 CE-1	0.000	ISRO	SF	U	PRL/UCL/Sastry,Rees	Ionospheric	WDCRF	-	-
1975-S74	2442462.73	1975 Feb 19 0535	Centaure 2B	-	ISRO 5.25 CE-4	0.000	ISRO	SS	-	PRL/UCL/Sastry,Rees	Ionos	ASR5,7,35	-	-
1975-S77	2442462.88	1975 Feb 19 0904	Centaure 2B	-	ISRO 5.24 CE-2	0.000	ISRO	SS	-	PRL/UCL/Sastry,Rees	Ionospheric	WDCRF	-	-
1975-S93	2442478.52	1975 Mar 7 0022:55	Centaure 2C	-	SSC S13 (C100)	0.000	SSC	SS	-	MISU/Witt	Aeronomy	WDCRF	ESRO75	-
1975-S128	2442523.84	1975 Apr 21 0811	Centaure 2B	-	ISRO 5.26	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	SR19,279	-
1975-S132	2442524.23	1975 Apr 21 1730	Centaure 2B	-	ISRO 5.27	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	SR19,403	-
1975-S417	2442728.50	1975 Nov 12	Centaure 2B	-	ISRO 5.28?	0.000	ISRO	SS	-	ISRO/	Test	BHRI	-	-
1976-M08	2442838.04	1976 Feb 29 1304	Centaure 2B	-	ISRO 5.29	0.000	ISRO	SS	-	PRL/Subbaraya	Aeron/Ionos	WDCRF	-	-
1976-S142	2442861.53	1976 Mar 24 0040	Centaure 2B	-	ISRO 5.30	0.000	ISRO	SS	-	ISRO/ISAS/Rao,Tohmatsu	Ionos/Fields	WDCRF	-	-
1976-S143	2442863.57	1976 Mar 26 0135	Centaure 2B	-	ISRO 5.31	0.000	ISRO	SS	-	ISRO/ISAS/Rao,Tohmatsu	Aeron/Ionos	JGeomagG28-343	WDCRF	-
1976-S161	2442887.50	1976 Apr 18 2355	Centaure 2B	-	ISRO 5.32	0.000	ISRO	SS	-	ISRO/Desai	Aeron/Ionos	WDCRF	-	-
1976-S232	2442986.70	1976 Jul 27 0445	Centaure 2B	-	ISRO 5.33	0.000	ISRO	SS	-	ISRO/AbdulKalam	Test	WDCRF	-	-
1976-S303	2443060.24	1976 Oct 8 1744	Centaure 2B	-	ISRO 5.34	0.000	ISRO	SS	-	ISRO/Rao	Plasma	WDCRF	-	-
1976-A67	2443066.22	1976 Oct 14 1717	Centaure 2B	-	ISRO 5.35	0.000	ISRO	SF	U	ISRO/Naranan	Plasma	WDCRF	-	-
1976-S312	2443079.19	1976 Oct 27 1629	Centaure 2B	-	ISRO 5.36 C.34	0.000	ISRO	SS	-	TIFR/Singh	XR Astron	IJRSP10,16	-	-
1976-S326	2443100.68	1976 Nov 18 0425	Centaure 2B	-	ISRO 5.37	0.000	ISRO	SS	-	ISRO/Reddy	Ionos	WDCRF	-	-
1977-S309	2443298.75	1977 Jun 4 0558	Centaure 2B	?	ISRO 5.40	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	-	-
1977-S456	2443324.50	1977 Jun 30	Centaure 2B	-	ISRO	0.000	ISRO	SS	-	ISRO/Sharma	XR Astron	ApSpSci92,317	-	-
1977-S301	2443489.95	1977 Dec 12 1049	Centaure 1	-	INTA TCIS-7701	0.000	INTA	SS	-	INTA/CIFTQ/	Ionos	ElAren	ESA-SP135-37	-
1977-S305	2443493.94	1977 Dec 16 1035	Centaure 1	-	INTA TCIS-7702	0.000	INTA	SS	-	INTA/CIFTQ/	Ionos	ElAren	ESA-SP135-37	-
1978-S257	2443560.89	1978 Feb 21 0922	Centaure 2B	?	ISRO	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,7,35	-	-
1978-S267	2443813.10	1978 Oct 31 1420	Centaure 2B	-	ISRO	0.000	ISRO	SS	-	NPL/CLSR/Somayajulu	Ionos	SR20,123	-	-
1978-S259	2443863.36	1978 Dec 20 2045	Centaure 2B	?	ISRO	0.000	ISRO	SS	-	PRL/?	Ionos	ASR18,6,335	-	-
1978-S260	2443863.53	1978 Dec 21 0045	Centaure 2B	?	ISRO	0.000	ISRO	SS	-	PRL/?	Ionos	ASR18,6,335	-	-
1979-S321	2443873.50	1979	Centaure 2B	-	ISRO	0.000	ISRO	SS	-	ISRO/?	XR Astron	Serra	-	-
1979-M147	2443926.13	1979 Feb 21 1505	Centaure 2B	-	ISRO	0.000	ISRO	SS	-	NPL/Goroshev	Ionos	KI20,776	-	-
1979-S311	2443932.50	1979 Mar	Centaure 2B	-	ISRO 5.50	0.000	ISRO	SS	-	CLSR/Gusheva	Ionos	space.bas.bg	-	-
1979-S260	2444110.76	1979 Aug 25 0621	Centaure 2B	-	ISRO 5.55	0.000	ISRO	SS	-	PRL/CNES/	Ionos	ASR18,6,335	-	-
1979-S261	2444116.74	1979 Aug 31 0551	Centaure 2B	-	ISRO 5.56	0.000	ISRO	SS	-	PRL/CNES/	Ionos	ASR18,6,335	-	-
1979-S242	2444192.50	1979 Nov 15	Centaure 2B	-	-	0.000	ISRO	SS	-	DFVLR/VSSC/Mayer	Tech	ESA-SP152-9	-	-
1979-S320	2444236.50	1979 Dec 29	Centaure 2B	-	-	0.000	ISRO	SS	-	DFVLR/VSSC/Mayer	Tech	ESA-SP152-9	-	-
1980-S47	2444285.89	1980 Feb 16 0924	Centaure 2B	-	ISRO 5.60	0.000	ISRO	SS	-	PRL/NPL/Subbaraya	Eclipse Ionos	ProcInNSA48,A3	-	-
1980-S49	2444285.91	1980 Feb 16 0952	Centaure 2B	-	ISRO 5.61	0.000	ISRO	SS	-	PRL/NPL/Subbaraya	Eclipse Ionos	ProcInNSA48,A3	-	-
1980-S51	2444286.06	1980 Feb 16 1325	Centaure 2B	-	ISRO 5.63	0.000	ISRO	SS	-	PRL/NPL/Subbaraya	Eclipse Aeron	ProcInNSA48,A3	-	-
1980-S53	2444286.91	1980 Feb 17 0952	Centaure 2B	-	ISRO 5.64	0.000	ISRO	SS	-	PRL/NPL/Subbaraya	Eclipse Ionos	ProcInNSA48,A3	-	-
1980-S52	2444286.50	1980 Feb 17	Centaure 2B	-	ISRO 5.65/C.59	0.000	ISRO	SS	-	ISAS/	Aeron	ProcInNSA48,A3	SRJ	-
1980-S242	2444287.58	1980 Feb 18 0150	Centaure 2B	-	-	0.000	ISRO	SS	-	NPL/Somayajulu	Aeron	IJRSP10,197	-	-
1981-S188	2444639.71	1981 Feb 4 0500	Centaure 2B	?	ISRO C.76	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,4,205	-	-
1981-S189	2444647.73	1981 Feb 12 0527	Centaure 2B	-	ISRO C.77	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR2,10,93	-	-
1981-S190	2444694.50	1981 Apr	Centaure 2B	?	-	0.000	ISRO	SS	-	DFVLR/VSSC/	Tech	Serra	-	-
1982-S286	2444999.75	1982 Jan 30 0559	Centaure 2B	?	ISRO C.73	0.000	ISRO	SS	-	PRL/Prakash	Ionos	ASR5,4,205	-	-
1982-S287	2445039.60	1982 Mar 11 0230	Centaure 2B	-	-	0.000	ISRO	SS	-	DFVLR/	Ionos	Serra	-	-
1986-S122	2446496.71	1986 Mar 7 0500	Centaure 2B	?	-	0.000	ISRO	SS	-	PRL/NPL/Chakrabarty	Aeron	IJRSP24,35	ASR6,6,330	-
1988-S187	2447285.50	1988 May 4	Centaure 2B	-	-	0.000	ISRO	SS	-	NPL/	Ionos	NPL88-89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1950-A30	2433495.50	1950 Aug 2	Veronique R	-	R1	-	-	-	-	SUIP	-	-	-	2	-	-
1950-A32	2433497.50	1950 Aug 4	Veronique R	-	R2	-	-	-	-	SUIP	-	-	-	0	-	-
1951-A09	2433736.50	1951 Apr	Veronique P2	-	P2	-	-	-	-	VERNON	-	-	-	0	-	-
1951-A66	2433921.50	1951 Oct 2	Veronique R	-	R3	-	-	-	-	SUIP	-	-	-	0	-	-
1951-A68	2433924.50	1951 Oct 5	Veronique R	-	R4	-	-	-	-	SUIP	-	-	-	2	-	-
1951-A69	2433925.50	1951 Oct 6	Veronique R	-	R5	-	-	-	-	SUIP	-	-	-	2	-	-
1952-A11	2434036.50	1952 Jan 25	Veronique P6	-	P6-1	-	-	-	-	CARD	-	-	-	1	-	-
1952-A12	2434037.50	1952 Jan 26	Veronique R	-	R7	-	-	-	-	CARD	-	-	-	1	-	-
1952-A14	2434039.50	1952 Jan 28	Veronique P6	-	P6-2	-	-	-	-	CARD	-	-	-	1	-	-
1952-A15	2434039.50	1952 Jan 28	Veronique R	-	R6	-	-	-	-	CARD	-	-	-	1	-	-
1952-A19	2434041.50	1952 Jan 30	Veronique R	-	R8	-	-	-	-	CARD	-	-	-	1	-	-
1952-A81	2434152.50	1952 May 20	Veronique	-	N1	-	-	-	-	HMG	Bechar	-	-	19	-	-
1952-A82	2434153.50	1952 May 21	Veronique	-	N2	-	-	-	-	HMG	Bechar	-	-	14	-	-
1952-M03	2434154.50	1952 May 22	Veronique	-	N3	-	-	-	-	HMG	Bechar	-	-	60	-	-
1952-A214	2434324.50	1952 Nov 8	Veronique	-	N4	-	-	-	-	HMG	Bechar	-	-	10	-	-
1952-A215	2434325.50	1952 Nov 9	Veronique	-	N5	-	-	-	-	HMG	Bechar	-	-	1	-	-
1952-A221	2434329.50	1952 Nov 13	Veronique	-	N7	-	-	-	-	HMG	Bechar	-	-	4	-	-
1952-A223	2434332.50	1952 Nov 16	Veronique	-	N6	-	-	-	-	HMG	Bechar	-	-	1	-	-
1952-A227	2434333.50	1952 Nov 17	Veronique	-	N9	-	-	-	-	HMG	Bechar	-	-	10	-	-
1952-A230	2434334.50	1952 Nov 18	Veronique	-	N8	-	-	-	-	HMG	Bechar	-	-	0?	-	-
1953-A177	2434485.50	1953 Apr 18	Veronique	-	N11	-	-	-	-	HMG	Bechar	-	-	0?	-	-
1953-A183	2434488.50	1953 Apr 21	Veronique	-	N10	-	-	-	-	HMG	Bechar	-	-	45	-	-
1954-A70	2434793.50	1954 Feb 20	Veronique	-	NA15	-	-	-	-	HMG	Bechar	-	-	29	-	-
1954-S03	2434794.50	1954 Feb 21	Veronique	-	NA14	-	-	-	-	HMG	Bechar	-	-	135	-	-
1954-A578	2435032.50	1954 Oct 17	Veronique	-	NA13	-	-	-	-	HMG	Bechar	-	-	39	-	-
1954-S79	2435044.50	1954 Oct 29	Veronique	-	NA12	-	-	-	-	HMG	Bechar	-	-	90	-	-
1959-A44	2436635.32	1959 Mar 7 1934	Veronique	-	AGI18	Na release	-	-	-	HMG	Blandine	-	-	35	-	-
1959-S23	2436638.28	1959 Mar 10 1838	Veronique	-	AGI17	Na release	-	-	-	HMG	Blandine	-	-	124	-	-
1959-S24	2436639.74	1959 Mar 12 0544	Veronique	-	AGI16	Na release	-	-	-	HMG	Blandine	-	-	174	-	-
1960-A54	2436987.50	1960 Feb 23	Veronique	-	AGI23	-	-	-	-	HMG	Blandine	-	-	50?	-	-
1960-S45	2436996.27	1960 Mar 2 1832	Veronique	-	AGI22	Na release	-	-	-	HMG	Blandine	-	-	188	-	-
1960-S48	2436998.50	1960 Mar 5	Veronique	-	AGI21	Na release	-	-	-	HMG	Blandine	-	-	187	-	-
1960-S124	2437098.50	1960 Jun 13	Veronique	-	AGI20	Na release	-	-	-	HMG	Blandine	-	-	176	-	-
1960-S131	2437101.50	1960 Jun 16	Veronique	-	AGI19	Na release	-	-	-	HMG	Blandine	-	-	180	-	-
1960-S133	2437103.50	1960 Jun 18	Veronique	-	AGI25	-	-	-	-	HMG	Blandine	-	-	152	-	-
1960-S137	2437107.50	1960 Jun 22	Veronique	-	AGI26	-	-	-	-	HMG	Blandine	-	-	60	-	-
1961-S42	2437341.95	1961 Feb 11 1041	Veronique	-	AGI27	Airglow	-	-	-	HMG	Blandine	-	-	91	-	-
1961-A47	2437343.50	1961 Feb 13	Veronique	-	AGI28	-	-	-	-	HMG	Blandine	-	-	0?	-	-
1961-S48	2437346.42	1961 Feb 15 2201	Veronique	-	AGI29	-	-	-	-	HMG	Blandine	-	-	150	-	-
1961-A50	2437348.50	1961 Feb 18	Veronique	-	AGI30	-	-	-	-	HMG	Blandine	-	-	16	-	-
1961-S58	2437352.79	1961 Feb 22 0700	Veronique	-	AGI24	Bio (Rat)	-	-	-	HMG	Blandine	-	-	110	-	-
1961-S175	2437460.50	1961 Jun 10	Veronique	-	AGI31	-	-	-	-	HMG	Blandine	-	-	100?	-	-
1962-S141	2437809.32	1962 May 24 1940	Veronique	-	AGI39	-	-	-	-	HMG	Blandine	-	-	168	-	-
1962-S150	2437815.50	1962 May 31	Veronique	-	AGI38	-	-	-	-	HMG	Blandine	-	-	100?	-	-
1962-S155	2437816.50	1962 Jun 1	Veronique	-	AGI41	-	-	-	-	HMG	Blandine	-	-	100?	-	-
1962-S160	2437819.50	1962 Jun 4	Veronique	-	AGI42	-	-	-	-	REG	-	-	-	100?	-	-
1962-S169	2437822.32	1962 Jun 6 1947	Veronique	-	AGI43	-	-	-	-	REG	-	-	-	100?	-	-
1962-S390	2437952.86	1962 Oct 15 0839	Veronique	-	AGI37	Bio (Rat)	-	-	-	HMG	Blandine	-	-	120	-	-
1962-S401	2437955.85	1962 Oct 18 0831	Veronique	-	AGI36	Bio (Rat)	-	-	-	HMG	Blandine	-	-	110	-	-
1962-S403	2437956.50	1962 Oct 19	Veronique	-	AGI44	-	-	-	-	HMG	Blandine	-	-	135	-	-
1962-S412	2437959.50	1962 Oct 22	Veronique	-	AGI46	-	-	-	-	HMG	Blandine	-	-	120	-	-
1962-S413	2437960.96	1962 Oct 23 1101	Veronique	-	AGI32	Airglow	-	-	-	HMG	Blandine	-	-	175	-	-
1962-S439	2437967.47	1962 Oct 29 2321	Veronique	-	AGI34	-	-	-	-	HMG	Blandine	-	-	180	-	-
1963-S166	2438139.94	1963 Apr 20 1034	Veronique	-	AGI35	Airglow	-	-	-	HMG	Blandine	-	-	175	-	-
1963-S169	2438143.42	1963 Apr 23 2204	Veronique	-	AGI49	-	-	-	-	HMG	Blandine	-	-	140	-	-
1963-S186	2438151.21	1963 May 1 1659	Veronique	-	AGI45	-	-	-	-	HMG	Blandine	-	-	160	-	-
1963-S196	2438159.50	1963 May 10	Veronique	-	AGI48	Coronagraph	-	-	-	HMG	Blandine	-	-	135	-	-
1963-S282	2438198.50	1963 Jun 18	Veronique	-	AGI33	-	-	-	-	HMG	Blandine	-	-	160	-	-
1963-A92	2438199.50	1963 Jun 19	Veronique	-	AGI40	-	-	-	-	HMG	Blandine	-	-	38	-	-
1963-S501	2438320.80	1963 Oct 18 0709	Veronique	-	AGI47	Bio (Cat)	-	-	-	HMG	Blandine	-	-	155	-	-
1963-S514	2438326.73	1963 Oct 24 0530	Veronique	-	AGI50	Bio (Cat)	-	-	-	HMG	Blandine	-	-	88	-	-
1964-S205	2438499.50	1964 Apr 14	Veronique	-	AGI51	Solar La	-	-	-	HMG	Blandine	-	-	119	-	-
1964-S284	2438554.50	1964 Jun 8	Veronique 61	-	VA75	-	-	-	-	HMG	Blandine	-	-	260	-	-
1964-S294	2438559.50	1964 Jun 13	Veronique 61	-	VA76	-	-	-	-	HMG	Blandine	-	-	260	-	-
1964-S574	2438704.19	1964 Nov 4 1635	Veronique	-	AGI53	Solar La	-	-	-	HMG	Blandine	-	-	150	-	-
1964-S602	2438707.85	1964 Nov 8 0822	Veronique	-	AGI52	UV Spectrum/CU point	-	-	-	HMG	Blandine	-	-	98	-	-
1965-S94	2438803.50	1965 Feb 12	Veronique	-	AGI56	-	-	-	-	HMG	Blandine	-	-	95	-	-
1965-M11	2438907.50	1965 May 27	Veronique 61	-	VA79	FU-144 Ly alpha	-	-	-	HMG	Blandine	-	-	70	-	-
1965-S570	2439056.35	1965 Oct 22 2018	Veronique AGI	-	AGI/V54	FU-115 Electron den.	-	-	-	HMG	Blandine	-	-	210	-	-
1965-S581	2439061.79	1965 Oct 28 0655	Veronique AGI	-	AGI/V55	FU-115 electron den.	-	-	-	HMG	Blandine	-	-	210	-	-
1966-S186	2439209.21	1966 Mar 24 1702	Veronique 61M	-	VA80	FU-155	-	-	-	HMG	Blandine	-	-	209	-	-
1966-A50	2439219.84	1966 Apr 4 0807	Veronique 61M	-	VA78	FU-145 ACS test	-	-	-	HMG	Blandine	-	-	23	-	-
1966-S212	2439222.15	1966 Apr 6 1530	Veronique AGI	-	AGI/57	FU-126 Solar corona	-	-	-	HMG	Blandine	-	-	130	-	-
1966-S345	2439304.21	1966 Jun 27 1705	Veronique AGI	-	AGI/60	FU-154 Recovery test	-	-	-	HMG	Blandine	-	-	123	-	-
1966-S527	2439401.50	1966 Oct 3	Veronique 61M	-	VA77	FU-145 Ionos.	-	-	-	HMG	Blandine	-	-	166	-	-
1966-S653	2439453.50	1966 Nov 24	Veronique 61M	-	VA82	FU-158 Recovery test	-	-	-	HMG	Blandine	-	-	230	-	-
1966-S673	2439469.14	1966 Dec 9 1520	Veronique AGI	-	AGI 59	FU-149 Ions/mass sp.	-	-	-	HMG	Blandine	-	-	122	-	-
1967-S54	2439501.50	1967 Jan 11	Veronique 61	-	VA84	FU-161 Astronomy	-	-	-	HMG	Blandine	-	-	158	-	-
1967-S55	2439503.92	1967 Jan 13 1000	Veronique AGI	-	AGI 63	FU-160 Solar corona	-	-	-	HMG	Blandine	-	-	123	-	-
1967-S60	2439507.50	1967 Jan 17	Veronique 61	-	VA85	FU-145B Astron.	-	-	-	HMG	Blandine	-	-	205	-	-
1967-S127	2439545.50	1967 Feb 24	Veronique 61	-	VA81	FU-176 Recovery test	-	-	-	HMG	Blandine	-	-	200	-	-
1967-A64	2439566.50	1967 Mar 17	Veronique AGI	-	AGI 64	FU-174 Solar corona	-	-	-	HMG	Blandine	-	-	32	-	-
1967-S169	2439573.75	1967 Mar 24 0555	Veronique 61M	-	VA86	FU-156 Ionos/Bio	-	-	-	HMG	Blandine	-	-	366	-	-
1967-S176	2439578.77	1967 Mar 29 0625	Veronique 61M	-	VA87	FU-156 Ionos/Bio	-	-	-	HMG	Blandine	-	-	306	-	-
1967-S190	2439584.50	1967 Apr 4	Veronique 61M	-	VA88	FU-178 PUV-3	-	-	-	HMG	Blandine	-	-	196	-	-
1968-S259	2439956.04	1968 Apr 9 1255	Veronique AGI	-	AGI 62	FU-184 Sea recovery	-	-	-	CSG	ALFS V	-	-	114	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1968-S421	2440063.30	1968 Jul 25 1915	Veronique 61M	-	61M/89	FU-185	-	-	-	CSG	ALFS V	-	-	185	-	-
1968-S653	2440208.50	1968 Dec 18	Veronique 61M	-	61M/83	FU-159 PERSEE?	-	-	-	CSG	ALFS V	-	-	162	-	-
1968-S658	2440212.50	1968 Dec 22	Veronique 61M	-	61M/90	FU-159 Crab X-rays	-	-	-	CSG	ALFS V	-	-	188	-	-
1969-S148	2440272.99	1969 Feb 20 1148	Veronique AGI	-	AGI 61	FU-170 CIRCE	-	-	-	CSG	ALFS V	-	-	107	-	-
1971-S324	2441111.32	1971 Jun 8 1946	Veronique 61M	-	61M/93	FU-194 GESAIR	-	-	-	CSG	ALFS V	-	-	210	-	-
1971-S329	2441115.32	1971 Jun 12 1944	Veronique 61M	-	61M/94	FU-194 GESAIR	-	-	-	CSG	ALFS V	-	-	210	-	-
1971-S612	2441302.33	1971 Dec 16 1957	Veronique 61M	-	61M/92	FU-208 CISASPE	-	-	-	CSG	ALFS V	-	-	227	-	-
1973-S152	2441789.94	1973 Apr 17 1030	Veronique 61M	-	61M/95	FU-200 3SUV	-	-	-	CSG	ALFS V	-	-	200	-	-
1975-S188	2442562.50	1975 May 30 0000	Veronique 61M	-	-	FU-216 FAUST	-	-	-	CSG	ALFS V	-	-	172	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1950-A30	2433495.50	1950 Aug 2	Veronique R	-	R1	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1950-A32	2433497.50	1950 Aug 4	Veronique R	-	R2	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1951-A09	2433736.50	1951 Apr	Veronique P2	-	P2	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1951-A66	2433921.50	1951 Oct 2	Veronique R	-	R3	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1951-A68	2433924.50	1951 Oct 5	Veronique R	-	R4	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1951-A69	2433925.50	1951 Oct 6	Veronique R	-	R5	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A11	2434036.50	1952 Jan 25	Veronique P6	-	P6-1	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A12	2434037.50	1952 Jan 26	Veronique R	-	R7	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A14	2434039.50	1952 Jan 28	Veronique P6	-	P6-2	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A15	2434039.50	1952 Jan 28	Veronique R	-	R6	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A19	2434041.50	1952 Jan 30	Veronique R	-	R8	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A81	2434152.50	1952 May 20	Veronique	-	N1	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A82	2434153.50	1952 May 21	Veronique	-	N2	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-M03	2434154.50	1952 May 22	Veronique	-	N3	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1952-A214	2434324.50	1952 Nov 8	Veronique	-	N4	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A215	2434325.50	1952 Nov 9	Veronique	-	N5	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A221	2434329.50	1952 Nov 13	Veronique	-	N7	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A223	2434332.50	1952 Nov 16	Veronique	-	N6	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A227	2434333.50	1952 Nov 17	Veronique	-	N9	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1952-A230	2434334.50	1952 Nov 18	Veronique	-	N8	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1953-A177	2434485.50	1953 Apr 18	Veronique	-	N11	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1953-A183	2434488.50	1953 Apr 21	Veronique	-	N10	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1954-A70	2434793.50	1954 Feb 20	Veronique	-	NA15	0.000	LRBA	SF	U	LRBA/	Test	AAS89-260	-	-
1954-S03	2434794.50	1954 Feb 21	Veronique	-	NA14	0.000	LRBA	SS	-	LRBA/	Test	AAS89-260	-	-
1954-A578	2435032.50	1954 Oct 17	Veronique	-	NA13	0.000	LRBA	SF	U	BREI/Rawer	Test/Ionos	AAS89-260	SR2,1220	-
1954-S79	2435044.50	1954 Oct 29	Veronique	-	NA12	0.000	LRBA	SS	-	LPA/Vassy	Test	AAS89-260	-	-
1959-A44	2436635.32	1959 Mar 7 1934	Veronique	-	AGI18	0.000	CASDN	SF	U	CNRS/Blamont	Aeronomy	capcomespace.net	AAS89-260	-
1959-S23	2436638.28	1959 Mar 10 1838	Veronique	-	AGI17	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	Combat,590311	AnnalesGeo17,134	AAS89-260
1959-S24	2436639.74	1959 Mar 12 0544	Veronique	-	AGI16	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	AnnalesGeo17,319	-
1960-A54	2436987.50	1960 Feb 23	Veronique	-	AGI23	0.000	CASDN	SF	U	CNRS/LPA/Blamont,Vassy	Aeronomy	AAS89-260	-	-
1960-S45	2436996.27	1960 Mar 2 1832	Veronique	-	AGI22	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	SR2,1141	AnnalesGeo17,319	-
1960-S48	2436998.50	1960 Mar 5	Veronique	-	AGI21	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	AnnalesGeo17,319	-
1960-S124	2437098.50	1960 Jun 13	Veronique	-	AGI20	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	AnnalesGeo17,319	-
1960-S131	2437101.50	1960 Jun 16	Veronique	-	AGI19	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	AnnalesGeo17,319	-
1960-S133	2437103.50	1960 Jun 18	Veronique	-	AGI25	0.000	CASDN	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	-	-
1960-S137	2437107.50	1960 Jun 22	Veronique	-	AGI26	0.000	CASDN	SF	U	CNRS/Blamont	Aeronomy	AAS89-260	-	-
1961-S42	2437341.95	1961 Feb 11 1041	Veronique	-	AGI27	0.000	CASDN	SS	-	DFF/LPA/Rossler	Aeronomy	ISTS5-1011	AAS89-260	-
1961-A47	2437343.50	1961 Feb 13	Veronique	-	AGI28	0.000	CASDN	SF	U	LPA/Vassy	Aeronomy	AAS89-260	-	-
1961-S48	2437346.42	1961 Feb 15 2201	Veronique	-	AGI29	0.000	CASDN	SS	-	LPA/Vassy	Aeronomy	ISTS5-1011	AAS89-260	-
1961-A50	2437348.50	1961 Feb 18	Veronique	-	AGI30	0.000	CASDN	SF	U	LPA/Vassy	Aeronomy	AAS89-260	-	-
1961-S58	2437352.79	1961 Feb 22 0700	Veronique	-	AGI24	0.000	CASDN	SS	-	CERMA/Grandpierre	Life Sci	soframas.asso.fr	AAS89-260	-
1961-S175	2437460.50	1961 Jun 10	Veronique	-	AGI31	0.000	CRSF	SS	-	CNRS/Blamont	Aeronomy	AAS89-260	-	-
1962-S141	2437809.32	1962 May 24 1940	Veronique	-	AGI39	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	AnnGeo20,367	CNES	-
1962-S150	2437815.50	1962 May 31	Veronique	-	AGI38	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S155	2437816.50	1962 Jun 1	Veronique	-	AGI41	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S160	2437819.50	1962 Jun 4	Veronique	-	AGI42	0.000	CNES	SF	U	CNRS/Blamont	Aeronomy	CNES	-	-
1962-S169	2437822.32	1962 Jun 6 1947	Veronique	-	AGI43	0.000	CNES	SS	-	CNRS/Blamont	Aeronomy	AnnGeo20,367	AAS89-260	-
1962-S390	2437952.86	1962 Oct 15 0839	Veronique	-	AGI37	0.000	CNES	SS	-	CERMA/Grandpierre	Life Sci	soframas.asso.fr	AAS89-260	-
1962-S401	2437955.85	1962 Oct 18 0831	Veronique	-	AGI36	0.000	CNES	SS	-	CERMA/Grandpierre	Life Sci	soframas.asso.fr	AAS89-260	-
1962-S403	2437956.50	1962 Oct 19	Veronique	-	AGI44	0.000	CNES	SS	-	LRBA/Frey	Test	AAS89-260	-	-
1962-S412	2437959.50	1962 Oct 22	Veronique	-	AGI46	0.000	CNES	SS	-	LRBA/Frey	Test	AAS89-260	-	-
1962-S413	2437960.96	1962 Oct 23 1101	Veronique	-	AGI32	0.000	CNES	SS	-	DFF/LPA/Rossler,Vassy	Aeronomy/Ionos	SR5,719	AAS89-260	-
1962-S439	2437967.47	1962 Oct 29 2321	Veronique	-	AGI34	0.000	CNES	SS	-	LPA/Vassy	Aeronomy/Ionos	SR5,719	ISTS5-1011	-
1963-S166	2438139.94	1963 Apr 20 1034	Veronique	-	AGI35	0.000	CNES	SS	-	DFF/LPA/Rossler.Vassy	Aeronomy/Ionos	SR5,719	AAS89-260	-
1963-S169	2438143.42	1963 Apr 23 2204	Veronique	-	AGI49	0.000	CNES	SS	-	LPA/Vassy	Aeronomy/Ionos	SR5,719	AAS89-260	-
1963-S186	2438151.21	1963 May 1 1659	Veronique	-	AGI45	0.000	CNES	SS	-	LPA/CEA/Vassy,Rawer	Aeronomy/Ionos	SR5,706	AAS89-260	-
1963-S196	2438159.50	1963 May 10	Veronique	-	AGI48	0.000	CNES	SS	-	CNRS/Bonnet	Solar UV	AAS89-260	-	-
1963-S282	2438198.50	1963 Jun 18	Veronique	-	AGI33	0.000	CNES	SF	S1	CNRS/Bize	Ionos	AAS89-260	-	-
1963-A92	2438199.50	1963 Jun 19	Veronique	-	AGI40	0.000	CNES	SF	S1	CNRS/Bize	Ionos	AAS89-260	-	-
1963-S501	2438320.80	1963 Oct 18 0709	Veronique	-	AGI47	0.000	CNES	SS	-	CERMA/Grandpierre	Life Sci	soframas.asso.fr	AAS89-260	-
1963-S514	2438326.73	1963 Oct 24 0530	Veronique	-	AGI50	0.000	CNES	SF	S1	CERMA/Grandpierre	Life Sci	AAS89-260	-	-
1964-S205	2438499.50	1964 Apr 14	Veronique	-	AGI51	0.000	CNES	SS	-	CNRS/Bize	Solar UV	CNES	-	-
1964-S284	2438554.50	1964 Jun 8	Veronique 61	-	VA75	0.000	CNES	SS	-	LRBA/Frey	Test	CNES	-	-
1964-S294	2438559.50	1964 Jun 13	Veronique 61	-	VA76	0.000	CNES	SS	-	LRBA/Frey	Test	CNES	-	-
1964-S574	2438704.19	1964 Nov 4 1635	Veronique	-	AGI53	0.000	CNES	SS	-	CNRS/Bize	Solar UV	WDCRF	CNES	-
1964-S602	2438707.85	1964 Nov 8 0822	Veronique	-	AGI52	0.000	CNES	SF	U	CNRS/Bonnet	Solar UV	AnAp31,597	CNES	-
1965-S94	2438803.50	1965 Feb 12	Veronique	-	AGI56	0.000	CNES	SS	-	CNRS/Poher	Solar?	CNES	-	-
1965-M11	2438907.50	1965 May 27	Veronique 61	-	VA79	0.000	CNES	SF	U	CNRS/Quessette	Solar UV?	CNES	-	-
1965-S570	2439056.35	1965 Oct 22 2018	Veronique AGI	-	AGI/V54	0.000	CNES	SS	-	BREI/Rawer	Ionos	CNES	SRVII-467	-
1965-S581	2439061.79	1965 Oct 28 0655	Veronique AGI	-	AGI/V55	0.000	CNES	SS	-	BREI/Rawer	Ionos	CNES	SRVII-467	-
1966-S186	2439209.21	1966 Mar 24 1702	Veronique 61M	-	VA80	0.000	CNES	SS	-	CNES/Collet	Test	CNES	-	-
1966-A50	2439219.84	1966 Apr 4 0807	Veronique 61M	-	VA78	0.000	CNES	SF	U	CNES/Labeyrie,Courtes	Test/[Astron?]	CNES	-	-
1966-S212	2439222.15	1966 Apr 6 1530	Veronique AGI	-	AGI/57	0.000	CNES	SS	-	CNRS/Bonnet	Solar UV	AnAp31,597	CNES	-
1966-S345	2439304.21	1966 Jun 27 1705	Veronique AGI	-	AGI/60	0.000	CNES	SS	-	CNES/Morin	Test	CNES	-	-
1966-S527	2439401.50	1966 Oct 3	Veronique 61M	-	VA77	0.000	CNES	SS	-	CNES/Labeyrie,Courtes	Mag/Ionos/Astron Zodi?	CNES	AASH28-219	-
1966-S653	2439453.50	1966 Nov 24	Veronique 61M	-	VA82	0.000	CNES	SS	-	CNES/Morin	Test	CNES	-	-
1966-S673	2439469.14	1966 Dec 9 1520	Veronique AGI	-	AGI 59	0.000	CNES	SS	-	CNET/Giraud	Ionos/Aeron	IndianAv41.9	CNES	-
1967-S54	2439501.50	1967 Jan 11	Veronique 61	-	VA84	0.000	CNES	SS	-	LAS/CEA/Courtes	XR Astron/UV Astron	CNES	-	-
1967-S55	2439503.92	1967 Jan 13 1000	Veronique AGI	-	AGI 63	0.000	CNES	SS	-	CNRS/Bonnet	Solar UV	SR8,459	ApJ148,115	-
1967-S60	2439507.50	1967 Jan 17	Veronique 61	-	VA85	0.000	CNES	SS	-	LAS/Courtes?	Test/UV Astron	AAS89-260	-	-
1967-S127	2439545.50	1967 Feb 24	Veronique 61	-	VA81	0.000	CNES	SS	-	CNES/Morin	Test	CNES	-	-
1967-A64	2439566.50	1967 Mar 17	Veronique AGI	-	AGI 64	0.000	CNES	SF	U	CNRS/Bonnet	Solar UV	CNES	-	-
1967-S169	2439573.75	1967 Mar 24 0555	Veronique 61M	-	VA86	0.000	CNES	SS	-	BREI/Rawer	Ionos/Plasma/Bio	CNES	SR8-313	-
1967-S176	2439578.77	1967 Mar 29 0625	Veronique 61M	-	VA87	0.000	CNES	SS	-	BREI/Rawer	Ionos/Plasma	CNES	-	-
1967-S190	2439584.50	1967 Apr 4	Veronique 61M	-	VA88	0.000	CNES	SS	-	LAS/CEA/Courtes	UV Astron/XR Astron	SR8,430	SR12,1603	-
1968-S259	2439956.04	1968 Apr 9 1255	Veronique AGI	-	AGI 62	0.000	CNES	SS	-	CNES/Morin	Test	twitter/dutchspace	CNES	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1968-S421	2440063.30	1968 Jul 25 1915	Veronique 61M	-	61M/89	0.000	CNES	SS	-	LAS/CEA/Morin,Rocchia	XR Astron	twitter/dutchspace	CNES	-
1968-S653	2440208.50	1968 Dec 18	Veronique 61M	-	61M/83	0.000	CNES	SS	-	LAS/Courtes	UV Astron	CNES	IAU36-130	-
1968-S658	2440212.50	1968 Dec 22	Veronique 61M	-	61M/90	0.000	CNES	SS	-	CEA/LAS/Courtes,Ducros	UV Astron,XR Astron	CNES	AAp7-162	-
1969-S148	2440272.99	1969 Feb 20 1148	Veronique AGI	-	AGI 61	0.000	CNES	SS	-	CNET/Giraud	Ionos	CNES	AASH28-219	-
1971-S324	2441111.32	1971 Jun 8 1946	Veronique 61M	-	61M/93	0.000	CNES	SS	-	BREI/APW/Rawer	Bio/Geophys	CNES	SR13,485	-
1971-S329	2441115.32	1971 Jun 12 1944	Veronique 61M	-	61M/94	0.000	CNES	SS	-	BREI/APW/Rawer	Bio/Geophys	CNES	SR13,485	-
1971-S612	2441302.33	1971 Dec 16 1957	Veronique 61M	-	61M/92	0.000	CNES	SS	-	CNRS/AN/Beghin	Ionos	WDCRF	AASH28-219	-
1973-S152	2441789.94	1973 Apr 17 1030	Veronique 61M	-	61M/95	0.000	CNES	SS	-	CNRS/Bonnet	Solar EUV	WDCRF	ESA-SP115	-
1975-S188	2442562.50	1975 May 30 0000	Veronique 61M	-	-	0.000	CNES	SF	U	LAS/Courtes	UV Astron	CNES30	Dejean	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1965-S556	2439048.50	1965 Oct 15	Vesta	-	001	FU-123	-	-	-	HMG	Blandine	-	-	150	-	-
1965-S575	2439058.50	1965 Oct 25	Vesta	-	002	FU-123	-	-	-	HMG	Blandine	-	-	105	-	-
1967-S145	2439556.95	1967 Mar 7 1042	Vesta	-	004	FU-147 Bio (Macaca)	-	-	-	HMG	Blandine	-	-	243	-	-
1967-S153	2439562.94	1967 Mar 13 1030	Vesta	-	005	FU-147 Bio (Macaca)	-	-	-	HMG	Blandine	-	-	234	-	-
1969-S623	2440534.54	1969 Nov 9 0053:11	Vesta	-	006	FU-189 Star pt test	-	-	-	CSG	ALFS V	-	-	204	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1965-S556	2439048.50	1965 Oct 15	Vesta	-	001	0.000	CNES	SS	-	LRBA/Frey	Test	CNES	-	-
1965-S575	2439058.50	1965 Oct 25	Vesta	-	002	0.000	CNES	SS	-	LRBA/Frey	Test	CNES	-	-
1967-S145	2439556.95	1967 Mar 7 1042	Vesta	-	004	0.000	CNES	SS	-	CERMA/Grandpierre	Bio	CNESPR	AirCos670311	soframas.asso.fr
1967-S153	2439562.94	1967 Mar 13 1030	Vesta	-	005	0.000	CNES	SS	-	CERMA/Grandpierre	Bio	AASH27-19	soframas.asso.fr	-
1969-S623	2440534.54	1969 Nov 9 0053:11	Vesta	-	006	0.000	CNES	SS	-	LAS/ONERA/Moutonnet	Test/Astron	twitter/DutchSpace	AASH28-219	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1949-S08	2433040.18	1949 May 3 1614	Viking	-	1	Viking 1	-	-	-	WS	ALA1	-	-	83	-	-
1949-M05	2433166.21	1949 Sep 6 1657	Viking	-	2	Viking 2	-	-	-	WS	ALA1	-	-	57	-	-
1950-M03	2433322.41	1950 Feb 9 2144	Viking	-	3	Viking 3	-	-	-	WS	ALA1	-	-	80	-	-
1950-S04	2433413.63	1950 May 12 0308	Viking	-	4	Viking 4	-	-	AVM1	JARV	LP1	-	-	171	-	-
1950-S21	2433607.22	1950 Nov 21 1718	Viking	-	5	Viking 5	-	-	-	WS	ALA1	-	-	174	-	-
1950-M13	2433627.79	1950 Dec 12 0704	Viking	-	6	Viking 6	-	-	-	WS	ALA1	-	-	64	-	-
1951-S37	2433866.25	1951 Aug 7 1800	Viking	-	7	Viking 7	-	-	-	WS	ALA1	-	-	219	-	-
1952-A93	2434170.23	1952 Jun 6 1730	Viking Type 9	-	8	Viking 8	-	-	-	WS	NLA	-	-	6	-	-
1952-S41	2434362.40	1952 Dec 15 2138	Viking Type 9	-	9	Viking 9	-	-	-	WS	NLA	-	-	217	-	-
1954-S28	2434870.21	1954 May 7 1700	Viking Type 9	-	10	Viking 10	-	-	-	WS	NLA	-	-	219	-	-
1954-S32	2434887.21	1954 May 24 1700	Viking Type 9	-	11	Viking 11	-	-	-	WS	NLA	-	-	254	-	-
1955-S14	2435143.41	1955 Feb 4 2155	Viking Type 9	-	12	Viking 12	-	-	-	WS	NLA	-	-	231	-	-
1956-S107	2435815.75	1956 Dec 8 0603	Viking Type 9	-	13/TV0	Vanguard TV0	-	-	-	CC	LC18A	-	-	204	-	-
1957-S31	2435959.77	1957 May 1 0629:00	Viking Type 9	-	14/TV1	Vanguard TV1	-	-	-	CC	LC18A	-	-	195	-	-
1957-S142	2436135.31	1957 Oct 23 1922:54	Vanguard	-	TV-2	Vanguard TV2	-	-	-	CC	LC18A	-	-	175	-	-
1957-F01	2436179.20	1957 Dec 6 1644:35	Vanguard	-	TV-3	Vanguard TV3	Vanguard Test Satellite	-	-	CC	LC18A	-	-	0	-	-
1958-F01	2436239.81	1958 Feb 5 0733	Vanguard	-	TV-3BU	Vanguard TV3BU	Vanguard Test Satellite	-	-	CC	LC18A	-	-	6	-	-
1958 BET	2436280.01	1958 Mar 17 1215:41	Vanguard	-	TV-4	Vanguard I	Vanguard Test Satellite	-	-	CC	LC18A	-	-	4329	-	-
1958-F04	2436322.62	1958 Apr 29 0253:00	Vanguard	-	TV-5	Vanguard TV5	X-ray satellite	-	-	CC	LC18A	-	-	550	-	-
1958-F05	2436351.66	1958 May 28 0346:20	Vanguard	-	SLV-1	Vanguard SLV1	Lyman Alpha satellite	-	-	CC	LC18A	-	-	2500	-	-
1958-F06	2436380.71	1958 Jun 26 0500:52	Vanguard	-	SLV-2	Vanguard SLV2	X-ray satellite	-	-	CC	LC18A	-	-	165	-	-
1958-U01	2436473.15	1958 Sep 26 1538	Vanguard	-	SLV-3	Vanguard SLV3	Cloud cover satellite	-	-	CC	LC18A	-	-	426	-	-
1959 ALP	2436617.16	1959 Feb 17 1555	Vanguard	-	SLV-4	Vanguard II	Cloud cover satellite	-	-	CC	LC18A	-	-	3687	-	-
1959-F01	2436672.62	1959 Apr 14 0249:46	Vanguard	-	SLV-5	Vanguard SLV5	Magnetometer satellite	-	-	CC	LC18A	-	-	100	-	-
1959-F03	2436742.34	1959 Jun 22 2016:09	Vanguard	-	SLV-6	Vanguard SLV6	Radiation Balance sat	-	-	CC	LC18A	-	-	140	-	-
1959 ETA	2436829.72	1959 Sep 18 0520:07	Vanguard	X-248	SLV-7	Vanguard III	Magne-Ray satellite	-	-	CC	LC18A	-	-	3758	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1949-S08	2433040.18	1949 May 3 1614	Viking	-	1	0.000	NRL	SS	-	NRL/	Aeron/Photo	Newell	-	-
1949-M05	2433166.21	1949 Sep 6 1657	Viking	-	2	0.000	NRL	SF	S1	NRL/	Aeron/Photo	Newell	-	-
1950-M03	2433322.41	1950 Feb 9 2144	Viking	-	3	0.000	NRL	SS	-	NRL/	Solar UV,X/Photo	Newell	-	-
1950-S04	2433413.63	1950 May 12 0308	Viking	-	4	0.000	NRL	SS	-	NRL/	Ionos/Aeron	Newell	-	-
1950-S21	2433607.22	1950 Nov 21 1718	Viking	-	5	0.000	NRL	SS	-	NRL/Seddon,Jackson,Kane	Iono-solar	Newell	-	-
1950-M13	2433627.79	1950 Dec 12 0704	Viking	-	6	0.000	NRL	SF	S1	NRL/	Iono-solar	Newell	-	-
1951-S37	2433866.25	1951 Aug 7 1800	Viking	-	7	0.000	NRL	SS	-	NRL/	Iono-solar	Newell	-	-
1952-A93	2434170.23	1952 Jun 6 1730	Viking Type 9	-	8	0.000	NRL	SF	S1	NRL/	Test	Newell	-	-
1952-S41	2434362.40	1952 Dec 15 2138	Viking Type 9	-	9	0.000	NRL	SS	-	NRL/Byram,Chubb	Solar X	Newell	-	-
1954-S28	2434870.21	1954 May 7 1700	Viking Type 9	-	10	0.000	NRL	SS	-	NRL/Seddon,Jackson,	Aeron/Ionos	Newell	-	-
1954-S32	2434887.21	1954 May 24 1700	Viking Type 9	-	11	0.000	NRL	SS	-	NRL/	Reentry test	Newell	-	-
1955-S14	2435143.41	1955 Feb 4 2155	Viking Type 9	-	12	0.000	NRL	SS	-	NRL/	Reentry test	Newell	-	-
1956-S107	2435815.75	1956 Dec 8 0603	Viking Type 9	-	13/TV0	0.000	NRL	TS	-	NRL/Mazur	Test	Vang-TV0	SP-4202	-
1957-S31	2435959.77	1957 May 1 0629:00	Viking Type 9	-	14/TV1	0.000	NRL	TS	-	NRL/Mazur	Test	Newell	NRL-VR-17	-
1957-S142	2436135.31	1957 Oct 23 1922:54	Vanguard	-	TV-2	0.000	NRL	TS	-	NRL/Mazur	Test	Vang-ER9470	WDC	-
1957-F01	2436179.20	1957 Dec 6 1644:35	Vanguard	-	TV-3	0.002	NRL	OF	PE	G	Sat MEO O	Vang-ER9948	-	Fuel injector fire
1958-F01	2436239.81	1958 Feb 5 0733	Vanguard	-	TV-3BU	0.002	NRL	OF	S1G	G	Sat MEO O	Vang-ER9955	-	Control failure, pitched
1958 BET	2436280.01	1958 Mar 17 1215:41	Vanguard	-	TV-4	0.002	NRL	OS	-	G	Sat MEO O	SP-4202	Vang-ER9960	-
1958-F04	2436322.62	1958 Apr 29 0253:00	Vanguard	-	TV-5	0.010	NRL	OF	S2S	G	Sat MEO O	Vang-ER10300	-	No S2/S3 sep
1958-F05	2436351.66	1958 May 28 0346:20	Vanguard	-	SLV-1	0.010	NRL	OF	S3G	G	Sat MEO O	Vang-ER10301	-	S2 lost attitude in coast
1958-F06	2436380.71	1958 Jun 26 0500:52	Vanguard	-	SLV-2	0.010	NRL	OF	S2P	G	Sat MEO O	Vang-ER10302	-	Ox feed clogged
1958-U01	2436473.15	1958 Sep 26 1538	Vanguard	-	SLV-3	0.010	NRL	OF	S2P*	G	Sat MEO O	Vang-ER10303	-	UDMH injector clogged
1959 ALP	2436617.16	1959 Feb 17 1555	Vanguard	-	SLV-4	0.010	NRL	OS	-	G	Sat MEO O	Vang-ER10304	-	-
1959-F01	2436672.62	1959 Apr 14 0249:46	Vanguard	-	SLV-5	0.011	NRL	OF	S1S	G	Sat MEO O	Vang-ER10589	-	Pitch control lost at sep
1959-F03	2436742.34	1959 Jun 22 2016:09	Vanguard	-	SLV-6	0.010	NRL	OF	S2P	G	Sat MEO O	Vang-ER-SLV6	-	Prop tank burst
1959 ETA	2436829.72	1959 Sep 18 0520:07	Vanguard	X-248	SLV-7	0.047	NRL	OS	-	G	Sat MEO A	Vang-ER-SLV7	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-S122	2459901.75	2022 Nov 18 0600	Vikram-S	-	1 -	Prarambh	-	-	-	SHAR	-	-	-	89	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-S122	2459901.75	2022 Nov 18 0600	Vikram-S	-	1 -	0.000	SKYRT	SS	-	SKYRT/	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1960-S430	2436933.50	1960	Viper-Arrow	-	V-A	-	-	-	-	TTR?	-	-	-	100?	-	-
1960-Y03	2437159.80	1960 Aug 13 0719	Viper Falcon	-	-	TP Annie	-	-	-	EGL	-	-	-	120	-	-
1960-Y04	2437159.91	1960 Aug 13 0947	Viper Falcon	-	-	TP Norma	-	-	-	EGL	-	-	-	97	-	-
1961-S453	2437330.50	1961 Feb?	Viper-Arrow	-	V-A 23	-	-	-	-	TTR?	-	-	-	100?	-	-
1967-S614	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-01	-	-	-	-	CSB	-	-	-	140?	-	-
1967-S615	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-02	-	-	-	-	CSB	-	-	-	140?	-	-
1967-S616	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-03	-	-	-	-	CSB	-	-	-	140?	-	-
1967-S617	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-04	-	-	-	-	CSB	-	-	-	140?	-	-
1967-S618	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-05	-	-	-	-	CSB	-	-	-	104	-	-
1967-S619	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-06	-	-	-	-	CSB	-	-	-	104	-	-
1967-S620	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-07	-	-	-	-	CSB	-	-	-	109	-	-
1967-S621	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-08	-	-	-	-	CSB	-	-	-	100?	-	-
1967-S622	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-09	-	-	-	-	CSB	-	-	-	100?	-	-
1967-S623	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-10	-	-	-	-	CSB	-	-	-	100?	-	-
1968-Y10	2439905.25	1968 Feb 18 1807	Viper-Dart	-	SDC VD-11	-	-	-	-	CSB	-	-	-	122	-	-
1968-Y11	2439905.29	1968 Feb 18 1857	Viper-Dart	-	SDC VD-12	-	-	-	-	CSB	-	-	-	123	-	-
1968-Y12	2439905.34	1968 Feb 18 2007	Viper-Dart	-	SDC VD-13	-	-	-	-	CSB	-	-	-	114	-	-
1968-S666	2439966.50	1968 Apr 20	Viper-Dart	-	SDC VD-14	ROBIN	-	-	-	CSB	-	-	-	131?	-	-
1968-Y22	2439967.42	1968 Apr 20 2210	Viper-Dart	-	SDC VD-15	-	-	-	-	CSB	-	-	-	126	-	-
1968-S667	2439966.50	1968 Apr 20	Viper-Dart	-	SDC VD-16	-	-	-	-	CSB	-	-	-	124	-	-
1968-M40	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-17	-	-	-	-	CSB	-	-	-	50?	-	-
1968-S669	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-18	-	-	-	-	CSB	-	-	-	100	-	-
1968-S670	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-19	-	-	-	-	CSB	-	-	-	126	-	-
1968-S671	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-20	-	-	-	-	CSB	-	-	-	131	-	-
1968-A121	2439997.50	1968 May 21	Viper	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-A122	2440037.50	1968 Jul?	Viper	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-A123	2440037.50	1968 Jul?	Viper	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-A124	2440037.50	1968 Jul?	Viper	-	-	Kangaroo	-	-	-	PM?	-	-	-	40?	-	-
1968-S672	2440179.50	1968 Nov 19	Viper-Dart	-	SDC VD-21	ROBIN	-	-	-	CC	LC43	-	-	142	-	-
1968-A120	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-22	ROBIN	-	-	-	CC	LC43	-	-	40?	-	-
1968-S673	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-23	ROBIN	-	-	-	CC	LC43	-	-	129	-	-
1968-S674	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-24	ROBIN	-	-	-	CC	LC43	-	-	129	-	-
1968-S675	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-25	ROBIN	-	-	-	CC	LC43	-	-	128	-	-
1968-S676	2440209.50	1968 Dec 19	Viper-Dart	-	SDC VD-26	ROBIN	-	-	-	CC	LC43	-	-	121	-	-
1968-S677	2440210.50	1968 Dec 20	Viper-Dart	-	SDC VD-27	ROBIN	-	-	-	CC	LC43	-	-	139	-	-
1968-S678	2440211.50	1968 Dec 21	Viper-Dart	-	SDC VD-28	ROBIN	-	-	-	CC	LC43	-	-	137	-	-
1969-Y25	2440236.30	1969 Jan 14 1905	Viper-Dart	-	Sphere 1	-	-	-	-	WS	-	-	-	147	-	-
1969-Y28	2440237.31	1969 Jan 15 1930	Viper-Dart	-	Sphere 2	Met Sphere	-	-	-	WS	-	-	-	147	-	-
1969-A213	2440277.50	1969 Feb 25	Viper-Dart	-	SDC VD-29	Ram-Air Sphere	-	-	-	CC	LC43	-	-	40?	-	-
1969-A214	2440278.50	1969 Feb 26	Viper-Dart	-	SDC VD-30	ROBIN	-	-	-	CC	LC43	-	-	40?	-	-
1969-S702	2440278.50	1969 Feb 26	Viper-Dart	-	SDC VD-31	Ram-Air Sphere	-	-	-	CC	LC43	-	-	137	-	-
1969-M93	2440284.27	1969 Mar 3 1829	Viper-Dart	-	-	Apollo 9 support	-	-	-	CC	LC43?	-	-	73?	-	-
1969-W421	2440300.29	1969 Mar 19 1900	Viper-Dart	-	Sphere 3	Met Sphere	-	-	-	WS	-	-	-	51	-	-
1969-A65	2440332.62	1969 Apr 21 0300	Viper-Dart	-	Sphere 4	Met Sphere	-	-	-	WS	-	-	-	43	-	-
1969-A67	2440337.19	1969 Apr 25 1630	Viper-Dart	-	Sphere 5	Met Sphere	-	-	-	WS	-	-	-	46	-	-
1969-Y130	2440339.68	1969 Apr 28 0419	Viper-Dart	-	Sphere 6	Met Sphere	-	-	-	WS	-	-	-	146	-	-
1969-A68	2440339.75	1969 Apr 28 0607	Viper-Dart	-	Sphere 7	Met Sphere	-	-	-	WS	-	-	-	18	-	-
1969-Y134	2440351.21	1969 May 9 1700	Viper-Dart	-	Sphere 8	Met Sphere	-	-	-	WS	-	-	-	94	-	-
1969-Y135	2440352.58	1969 May 11 0200	Viper-Dart	-	Sphere 9	Met Sphere	-	-	-	WS	-	-	-	145	-	-
1969-S703	2440355.50	1969 May 14	Viper-Dart	-	SDC VD-32	ROBIN	-	-	-	CC	LC43	-	-	129	-	-
1969-A215	2440356.50	1969 May 15	Viper-Dart	-	SDC VD-33	ROBIN	-	-	-	CC	LC43	-	-	40?	-	-
1969-A216	2440357.50	1969 May 16	Viper-Dart	-	SDC VD-34	ROBIN	-	-	-	CC	LC43	-	-	40?	-	-
1969-S819	2440360.35	1969 May 18 2030	Viper-Dart	-	-	Apollo 10 support	-	-	-	CC	LC43?	-	-	90?	-	-
1969-Y191	2440417.05	1969 Jul 14 1309:59	Viper-Dart	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1969-Y194	2440419.19	1969 Jul 16 1626:59	Viper-Dart	-	-	Met Sphere	-	-	-	CC	LC43	-	-	91	-	-
1969-M37	2440438.50	1969 Aug 5	Viper-Dart	-	SDC VD-35	ROBIN	-	-	-	CC	LC43	-	-	77	-	-
1969-S704	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-36	ROBIN	-	-	-	CC	LC43	-	-	136	-	-
1969-S705	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-37	Double Sphere	-	-	-	CC	LC43	-	-	136	-	-
1969-S706	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-38	Double Sphere	-	-	-	CC	LC43	-	-	133	-	-
1969-S707	2440495.50	1969 Oct 1	Viper-Dart	-	SDC VD-39	ROBIN	-	-	-	CC	LC43	-	-	136	-	-
1970-S779	2440846.50	1970 Sep 17	Viper-Dart	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1970-S780	2440850.50	1970 Sep 21	Viper-Dart	-	-	-	-	-	-	WI	-	-	-	100?	-	-
1971-Y187	2441123.23	1971 Jun 20 1727:00	Viper-Dart	-	-	PAET Sphere	-	-	-	BERM	-	-	-	85	-	-
1971-Y188	2441123.50	1971 Jun 21 0000:00	Viper-Dart	-	-	PAET Sphere	-	-	-	BERM	-	-	-	85	-	-
1971-Y254	2441183.27	1971 Aug 19 1832	Viper-Dart	-	-	Robinette	-	-	-	WI	-	-	-	135	-	-
1971-S731	2441183.50	1971 Aug 20	Viper-Dart	-	-	-	-	-	-	WI	-	-	-	144	-	-
1972-W495	2441420.13	1972 Apr 12 1510:00	Viper-Dart	-	T 1-5765	Starute,Datasonde	-	-	-	WI	-	-	-	59	-	-
1972-W662	2441455.21	1972 May 17 1707:00	Viper-Dart	-	-	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1972-W785	2441484.11	1972 Jun 15 1438:59	Viper-Dart	-	T 1-5795	Starute,Datasonde	-	-	-	WI	-	-	-	57	-	-
1972-M17	2441518.17	1972 Jul 19 1604	Viper-Dart	-	T 1-5798	Starute,Datasonde	T1-5798	-	-	WI	-	-	-	60?	-	-
1972-W1053	2441546.27	1972 Aug 16 1835:59	Viper-Dart	-	T 1-6067	Met Para,Arcasonde	-	-	-	WI	-	-	-	57	-	-
1972-M13	2441637.36	1972 Nov 15 2038	Viper-Dart	-	T 1-6150	Starute,Datasonde	-	-	-	WI	-	-	-	60?	-	-
1972-M15	2441670.29	1972 Dec 18 1900	Viper-Dart	-	T 1-6261	Starute,Datasonde	-	-	-	WI	-	-	-	60?	-	-
1973-W95	2441700.14	1973 Jan 17 1522:00	Viper-Dart	-	T 1-6253	Starute,Datasonde	-	-	-	WI	-	-	-	60	-	-
1973-M24	2441756.26	1973 Mar 14 1808	Viper-Dart	-	T 1-6438	Starute,Datasonde	-	-	-	WI	-	-	-	60?	-	-
1973-M42	2441881.09	1973 Jul 17 1403	Viper-Dart	-	E 1-6678	-	-	-	-	WI	-	-	-	60?	-	-
1973-Y293	2441881.23	1973 Jul 17 1735:00	Viper-Dart	-	E 1-6685	-	-	-	-	WI	-	-	-	134	-	-
1973-Y295	2441881.61	1973 Jul 18 0240:00	Viper-Dart	-	E 1-6686	-	-	-	-	WI	-	-	-	141	-	-
1973-Y299	2441881.81	1973 Jul 18 0731:00	Viper-Dart	-	E 1-6693	-	-	-	-	WI	-	-	-	133	-	-
1974-W783	2442211.24	1974 Jun 12 1740:00	Viper-Dart	-	E 1-7345	Starute,Datasonde	-	-	-	WI	-	-	-	68	-	-
1974-M39	2442213.29	1974 Jun 14 1856	Viper-Dart	-	E 1-7845	-	-	-	-	WI	-	-	-	60?	-	-
1974-W842	2442228.21	1974 Jun 29 1700:00	Viper-Dart	?	Starute,Datasonde	ALADDIN 74	-	-	-	WI	-	-	-	67	-	-
1974-W843	2442228.26	1974 Jun 29 1820:00	Viper-Dart	-	E 1-7314	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W848	2442228.37	1974 Jun 29 2050:00	Viper-Dart	-	E 1-7315	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W860	2442228.52	1974 Jun 30 0035:00	Viper-Dart	-	E 1-7316	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W865	2442228.77	1974 Jun 30 0630:00	Viper-Dart	?	E 1-7318	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1974-W867	2442228.86	1974 Jun 30 0840:00	Viper-Dart	-	E 1-7319	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W869	2442228.92	1974 Jun 30 1005:00	Viper-Dart	-	E 1-7320	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W872	2442229.05	1974 Jun 30 1315:00	Viper-Dart	-	E 1-7321	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1974-W874	2442229.08	1974 Jun 30 1352:00	Viper-Dart	?	Starute,Datasonde	ALADDIN 74	-	-	-	WI	-	-	-	68	-	-
1974-W875	2442229.10	1974 Jun 30 1430:00	Viper-Dart	-	E 1-7322	ALADDIN 74	-	-	-	WI	-	-	-	75?	-	-
1975-S404	2442689.24	1975 Oct 3 1745	Viper-Dart	-	T1-8039	-	Instrumented Sphere 1	-	-	WI	-	-	-	100?	-	-
1976-M24	2442785.29	1976 Jan 7 1854	Viper-Dart	-	T1-8059	-	Instrumented Sphere 2	-	-	WI	-	-	-	100?	-	-
1976-M26	2442785.33	1976 Jan 7 1958	Viper-Dart	-	T1-8060	-	Instrumented Sphere 3	-	-	WI	-	-	-	100?	-	-
1976-M12	2442890.27	1976 Apr 21 1833	Viper-Dart	-	T1-8278	-	Instrumented Sphere 4	-	-	WI	-	-	-	100?	-	-
1976-M27	2442891.15	1976 Apr 22 1530	Viper-Dart	-	T1-8279	-	Instrumented Sphere 5	-	-	WI	-	-	-	100?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1960-S430	2436933.50	1960	Viper-Arrow	-	V-A	0.000	SAND	SS	-	SAND/	Aeron?	Astronautics6107	-	-
1960-Y03	2437159.80	1960 Aug 13 0719	Viper Falcon	-	-	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1960-Y04	2437159.91	1960 Aug 13 0947	Viper Falcon	-	-	0.000	AFCRL	SS	-	AFCRL/	Aeron	WDCRF	-	-
1961-S453	2437330.50	1961 Feb?	Viper-Arrow	-	V-A 23	0.000	SAND	SS	-	SAND/	Aeron?	Astronautics6107	-	-
1967-S614	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-01	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S615	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-02	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S616	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-03	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S617	2439707.50	1967 Aug 5	Viper-Dart	-	SDC VD-04	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S618	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-05	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S619	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-06	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S620	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-07	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S621	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-08	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S622	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-09	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1967-S623	2439827.50	1967 Dec 3	Viper-Dart	-	SDC VD-10	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1968-Y10	2439905.25	1968 Feb 18 1807	Viper-Dart	-	SDC VD-11	0.000	AFCRL	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-Y11	2439905.29	1968 Feb 18 1857	Viper-Dart	-	SDC VD-12	0.000	AFCRL	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-Y12	2439905.34	1968 Feb 18 2007	Viper-Dart	-	SDC VD-13	0.000	AFCRL	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-S666	2439966.50	1968 Apr 20	Viper-Dart	-	SDC VD-14	0.000	AFCRL	SS	-	AFCRL/	Test	AFCRL-68-0418	-	-
1968-Y22	2439967.42	1968 Apr 20 2210	Viper-Dart	-	SDC VD-15	0.000	AFCRL	SS	-	AFCRL/	Aeron	SP-219	-	-
1968-S667	2439966.50	1968 Apr 20	Viper-Dart	-	SDC VD-16	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-68-0418	-	-
1968-M40	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-17	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-68-0418	-	-
1968-S669	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-18	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-68-0418	-	-
1968-S670	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-19	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-68-0418	-	-
1968-S671	2439967.50	1968 Apr 21	Viper-Dart	-	SDC VD-20	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-68-0418	-	-
1968-A121	2439997.50	1968 May 21	Viper	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A122	2440037.50	1968 Jul?	Viper	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A123	2440037.50	1968 Jul?	Viper	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-A124	2440037.50	1968 Jul?	Viper	-	-	0.000	PMR	SS	-	PMR/	Test	PMRHist68	-	-
1968-S672	2440179.50	1968 Nov 19	Viper-Dart	-	SDC VD-21	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-A120	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-22	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S673	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-23	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S674	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-24	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S675	2440180.50	1968 Nov 20	Viper-Dart	-	SDC VD-25	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S676	2440209.50	1968 Dec 19	Viper-Dart	-	SDC VD-26	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S677	2440210.50	1968 Dec 20	Viper-Dart	-	SDC VD-27	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1968-S678	2440211.50	1968 Dec 21	Viper-Dart	-	SDC VD-28	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-Y25	2440236.30	1969 Jan 14 1905	Viper-Dart	-	Sphere 1	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y28	2440237.31	1969 Jan 15 1930	Viper-Dart	-	Sphere 2	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	DSI-5850	-
1969-A213	2440277.50	1969 Feb 25	Viper-Dart	-	SDC VD-29	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-A214	2440278.50	1969 Feb 26	Viper-Dart	-	SDC VD-30	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S702	2440278.50	1969 Feb 26	Viper-Dart	-	SDC VD-31	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-M93	2440284.27	1969 Mar 3 1829	Viper-Dart	-	-	0.000	KSC?	SS	-	NASA/?	Aeron	FER-AS504	-	-
1969-W421	2440300.29	1969 Mar 19 1900	Viper-Dart	-	Sphere 3	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-A65	2440332.62	1969 Apr 21 0300	Viper-Dart	-	Sphere 4	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-A67	2440337.19	1969 Apr 25 1630	Viper-Dart	-	Sphere 5	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y130	2440339.68	1969 Apr 28 0419	Viper-Dart	-	Sphere 6	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-A68	2440339.75	1969 Apr 28 0607	Viper-Dart	-	Sphere 7	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y134	2440351.21	1969 May 9 1700	Viper-Dart	-	Sphere 8	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-Y135	2440352.58	1969 May 11 0200	Viper-Dart	-	Sphere 9	0.000	WSMR	SS	-	WSMR/	Aeron	SP-219	-	-
1969-S703	2440355.50	1969 May 14	Viper-Dart	-	SDC VD-32	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-A215	2440356.50	1969 May 15	Viper-Dart	-	SDC VD-33	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-A216	2440357.50	1969 May 16	Viper-Dart	-	SDC VD-34	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S819	2440360.35	1969 May 18 2030	Viper-Dart	-	-	0.000	KSC?	SS	-	NASA/?	Aeron	FER-AS505	-	-
1969-Y191	2440417.05	1969 Jul 14 1309:59	Viper-Dart	-	-	0.000	MRN	SS	-	AWS/?	Meteo	DSI-5850	SP-219	-
1969-Y194	2440419.19	1969 Jul 16 1626:59	Viper-Dart	-	-	0.000	MRN	SS	-	AWS/?	Meteo	DSI-5850	CR-1529	-
1969-M37	2440438.50	1969 Aug 5	Viper-Dart	-	SDC VD-35	0.000	AFCRL	SF	U	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S704	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-36	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S705	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-37	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S706	2440494.50	1969 Sep 30	Viper-Dart	-	SDC VD-38	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1969-S707	2440495.50	1969 Oct 1	Viper-Dart	-	SDC VD-39	0.000	AFCRL	SS	-	AFCRL/	Aeron	AFCRL-70-0150	-	-
1970-S779	2440846.50	1970 Sep 17	Viper-Dart	-	-	0.000	GSFC	SS	-	NASA/?	Aeron	SP4015	-	-
1970-S780	2440850.50	1970 Sep 21	Viper-Dart	-	-	0.000	GSFC	SS	-	NASA/?	Aeron	SP4015	-	-
1971-Y187	2441123.23	1971 Jun 20 1727:00	Viper-Dart	-	-	0.000	ARC	SS	-	ARC/Seiff	Aeron	WDCRF	Icarus18,525	-
1971-Y188	2441123.50	1971 Jun 21 0000:00	Viper-Dart	-	-	0.000	ARC	SS	-	ARC/Seiff	Aeron	WDCRF	Icarus18,525	-
1971-Y254	2441183.27	1971 Aug 19 1832	Viper-Dart	-	-	0.000	WFF	SS	-	GSFC/Theon	Aeron	WDCRF	-	-
1971-S731	2441183.50	1971 Aug 20	Viper-Dart	-	-	0.000	WFF	SS	-	WSMR/	Aeron	SP4016	-	-
1972-W495	2441420.13	1972 Apr 12 1510:00	Viper-Dart	-	T 1-5765	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC/Ulrich	[FDC1501]
1972-W662	2441455.21	1972 May 17 1707:00	Viper-Dart	-	-	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC/Ulrich	[FDC1800Z]
1972-W785	2441484.11	1972 Jun 15 1438:59	Viper-Dart	-	T 1-5795	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC/Ulrich	FDC1540Z
1972-M17	2441518.17	1972 Jul 19 1604	Viper-Dart	-	T 1-5798	0.000	MRN	SS	-	-	Meteo	FDC/Ulrich	-	-
1972-W1053	2441546.27	1972 Aug 16 1835:59	Viper-Dart	-	T 1-6067	0.000	MRN	SS	-	-	Meteo	DSI-5850	FDC/Ulrich	-
1972-M13	2441637.36	1972 Nov 15 2038	Viper-Dart	-	T 1-6150	0.000	MRN	SS	-	-	Meteo	FDC/Ulrich	-	-
1972-M15	2441670.29	1972 Dec 18 1900	Viper-Dart	-	T 1-6261	0.000	MRN	SS	-	-	Meteo	FDC/Ulrich	-	-
1973-W95	2441700.14	1973 Jan 17 1522:00	Viper-Dart	-	T 1-6253	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	FDC1634
1973-M24	2441756.26	1973 Mar 14 1808	Viper-Dart	-	T 1-6438	0.000	MRN	SS	-	-	Meteo	FDC/Ulrich	-	-
1973-M42	2441881.09	1973 Jul 17 1403	Viper-Dart	-	E 1-6678	0.000	MRN	SU	-	-	Meteo	FDC/Ulrich	-	-
1973-Y293	2441881.23	1973 Jul 17 1735:00	Viper-Dart	-	E 1-6685	0.000	WSMR	SU	-	WSMR/Olson	Test	WDCRF	-	-
1973-Y295	2441881.61	1973 Jul 18 0240:00	Viper-Dart	-	E 1-6686	0.000	WSMR	SU	-	WSMR/Olson	Test	WDCRF	-	-
1973-Y299	2441881.81	1973 Jul 18 0731:00	Viper-Dart	-	E 1-6693	0.000	WSMR	SU	-	WSMR/Olson	Test	WDCRF	-	-
1974-W783	2442211.24	1974 Jun 12 1740:00	Viper-Dart	-	E 1-7345	0.000	MRN	SS	-	-	Meteo	DSI-5850	-	FDC1820-
1974-M39	2442213.29	1974 Jun 14 1856	Viper-Dart	-	E 1-7845	0.000	WSMR	SU	-	-	Meteo	FDC	-	-
1974-W842	2442228.21	1974 Jun 29 1700:00	Viper-Dart	?	Starute,Datasonde	0.000	MRN	SS	-	AFCRL/	Meteo	DSI-5850	-	-
1974-W843	2442228.26	1974 Jun 29 1820:00	Viper-Dart	-	E 1-7314	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	FDC	WDCRF (1710Z)	-
1974-W848	2442228.37	1974 Jun 29 2050:00	Viper-Dart	-	E 1-7315	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W860	2442228.52	1974 Jun 30 0035:00	Viper-Dart	-	E 1-7316	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W865	2442228.77	1974 Jun 30 0630:00	Viper-Dart	?	E 1-7318	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1974-W867	2442228.86	1974 Jun 30 0840:00	Viper-Dart	-	E 1-7319	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W869	2442228.92	1974 Jun 30 1005:00	Viper-Dart	-	E 1-7320	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W872	2442229.05	1974 Jun 30 1315:00	Viper-Dart	-	E 1-7321	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1974-W874	2442229.08	1974 Jun 30 1352:00	Viper-Dart	?	Starute,Datasonde	0.000	MRN	SS	-	AFCRL/	Meteo	DSI-5850	-	-
1974-W875	2442229.10	1974 Jun 30 1430:00	Viper-Dart	-	E 1-7322	0.000	GSFC	SU	-	WFF/AFCRL/	Aeron	WDCRF	-	-
1975-S404	2442689.24	1975 Oct 3 1745	Viper-Dart	-	T1-8039	0.000	GSFC	SS	-	UDAYT/Luers	Aeron/Test	CR-2968	-	-
1976-M24	2442785.29	1976 Jan 7 1854	Viper-Dart	-	T1-8059	0.000	GSFC	SS	-	UDAYT/Luers	Aeron	CR-2968	-	-
1976-M26	2442785.33	1976 Jan 7 1958	Viper-Dart	-	T1-8060	0.000	GSFC	SS	-	UDAYT/Luers	Aeron	CR-2968	-	-
1976-M12	2442890.27	1976 Apr 21 1833	Viper-Dart	-	T1-8278	0.000	GSFC	SU	-	UDAYT/Luers	Aeron	FDC/Ulrich	-	-
1976-M27	2442891.15	1976 Apr 22 1530	Viper-Dart	-	T1-8279	0.000	GSFC	SU	-	UDAYT/Luers	Aeron	CR-2968	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1972-S459	2441587.50	1972 Sep 27	Viper 3A	-	Stable Viper 1-4	Robin Dart	-	-	-	WI?	-	-	-	116	-	-
1972-S460	2441587.50	1972 Sep 27	Viper 3A	-	Stable Viper 1-5	Robin Dart	-	-	-	WI?	-	-	-	121	-	-
1972-S461	2441592.50	1972 Oct 2	Viper 3A	-	Stable Viper 1-6	Robin Dart	-	-	-	WI?	-	-	-	120	-	-
1972-A130	2441592.50	1972 Oct 2	Viper 3A	-	Stable Viper 1-7	Robin Dart	-	-	-	WI?	-	-	-	12	-	-
1983-W336	2445671.25	1983 Dec 2 1801:00	Viper 3A	-	MAP/WINE	M-F 1	-	-	-	AND	-	-	-	75?	-	-
1983-Y299	2445674.33	1983 Dec 5 2000:00	Viper 3A	-	MAP/WINE	M-F 2	-	-	-	AND	-	-	-	115	-	-
1983-Y300	2445676.24	1983 Dec 7 1744:00	Viper 3A	-	MAP/WINE	M-F 3	-	-	-	AND	-	-	-	108	-	-
1983-Y304	2445677.33	1983 Dec 8 2000:00	Viper 3A	-	MAP/WINE	M-F 4	-	-	-	AND	-	-	-	103	-	-
1983-Y308	2445681.33	1983 Dec 12 2000:00	Viper 3A	-	MAP/WINE	M-F 5	-	-	-	AND	-	-	-	118	-	-
1983-Y313	2445684.98	1983 Dec 16 1129:00	Viper 3A	-	MAP/WINE	M-F 6	-	-	-	AND	-	-	-	113	-	-
1983-Y314	2445685.01	1983 Dec 16 1212:00	Viper 3A	-	MAP/WINE	M-F 7	-	-	-	AND	-	-	-	106	-	-
1983-Y317	2445688.32	1983 Dec 19 1946:00	Viper 3A	-	MAP/WINE	M-F 8	-	-	-	AND	-	-	-	108	-	-
1983-Y318	2445688.34	1983 Dec 19 2015:00	Viper 3A	-	MAP/WINE	M-F 9	-	-	-	AND	-	-	-	113	-	-
1983-Y320	2445697.96	1983 Dec 29 1100:00	Viper 3A	-	MAP/WINE	M-F 10	-	-	-	AND	-	-	-	118	-	-
1983-Y321	2445697.98	1983 Dec 29 1134:00	Viper 3A	-	MAP/WINE	M-F 11	-	-	-	AND	-	-	-	119	-	-
1983-Y322	2445700.12	1983 Dec 31 1500:00	Viper 3A	-	MAP/WINE	M-F 12	-	-	-	AND	-	-	-	100?	-	-
1984-Y01	2445702.10	1984 Jan 2 1430:00	Viper 3A	-	MAP/WINE	M-F 13	-	-	-	AND	-	-	-	119	-	-
1984-Y03	2445705.33	1984 Jan 5 2000:00	Viper 3A	-	MAP/WINE	M-F 14	-	-	-	AND	-	-	-	120	-	-
1984-Y05	2445706.39	1984 Jan 6 2124	Viper 3A	-	MAP/WINE	M-F 15	-	-	-	AND	-	-	-	119	-	-
1984-Y07	2445708.33	1984 Jan 8 2000	Viper 3A	-	MAP/WINE	M-F 16	-	-	-	AND	-	-	-	118	-	-
1984-Y09	2445712.21	1984 Jan 12 1700	Viper 3A	-	MAP/WINE	M-F 17	-	-	-	AND	-	-	-	118	-	-
1984-W14	2445712.24	1984 Jan 12 1749	Viper 3A	-	MAP/WINE	M-F 18	-	-	-	AND	-	-	-	75?	-	-
1984-Y12	2445713.29	1984 Jan 13 1857	Viper 3A	-	MAP/WINE	M-F 19	-	-	-	AND	-	-	-	120	-	-
1984-Y13	2445713.31	1984 Jan 13 1931	Viper 3A	-	MAP/WINE	M-F 20	-	-	-	AND	-	-	-	117	-	-
1984-Y15	2445713.37	1984 Jan 13 2050	Viper 3A	-	MAP/WINE	M-F 21	-	-	-	AND	-	-	-	119	-	-
1984-Y16	2445713.39	1984 Jan 13 2122	Viper 3A	-	MAP/WINE	M-F 22	-	-	-	AND	-	-	-	116	-	-
1984-Y17	2445713.42	1984 Jan 13 2212	Viper 3A	-	MAP/WINE	M-F 23	-	-	-	AND	-	-	-	121	-	-
1984-Y18	2445713.45	1984 Jan 13 2244	Viper 3A	-	MAP/WINE	M-F 24	-	-	-	AND	-	-	-	115	-	-
1984-Y19	2445715.33	1984 Jan 15 2000	Viper 3A	-	MAP/WINE	M-F 25	-	-	-	AND	-	-	-	118	-	-
1984-Y21	2445717.33	1984 Jan 17 2000	Viper 3A	-	MAP/WINE	M-F 26	-	-	-	AND	-	-	-	116	-	-
1984-Y22	2445720.35	1984 Jan 20 2018	Viper 3A	-	MAP/WINE	M-F 27	-	-	-	AND	-	-	-	104	-	-
1984-Y23	2445720.92	1984 Jan 21 1000	Viper 3A	-	MAP/WINE	M-F 28	-	-	-	AND	-	-	-	116	-	-
1984-Y24	2445720.93	1984 Jan 21 1020	Viper 3A	-	MAP/WINE	M-F 29	-	-	-	AND	-	-	-	115	-	-
1984-Y25	2445720.96	1984 Jan 21 1107	Viper 3A	-	MAP/WINE	M-F 30	-	-	-	AND	-	-	-	110	-	-
1984-Y27	2445721.01	1984 Jan 21 1212	Viper 3A	-	MAP/WINE	M-F 31	-	-	-	AND	-	-	-	113	-	-
1984-Y28	2445721.03	1984 Jan 21 1246	Viper 3A	-	MAP/WINE	M-F 32	-	-	-	AND	-	-	-	112	-	-
1984-Y31	2445721.10	1984 Jan 21 1424	Viper 3A	-	MAP/WINE	M-F 33	-	-	-	AND	-	-	-	115	-	-
1984-Y32	2445724.27	1984 Jan 24 1830	Viper 3A	-	MAP/WINE	M-F 34	-	-	-	AND	-	-	-	115	-	-
1984-Y33	2445724.29	1984 Jan 24 1853	Viper 3A	-	MAP/WINE	M-F 35	-	-	-	AND	-	-	-	113	-	-
1984-Y34	2445725.17	1984 Jan 25 1609	Viper 3A	-	MAP/WINE	M-F 36	-	-	-	AND	-	-	-	112	-	-
1984-Y35	2445725.26	1984 Jan 25 1813	Viper 3A	-	MAP/WINE	M-F 37	-	-	-	AND	-	-	-	115	-	-
1984-Y36	2445728.21	1984 Jan 28 1701	Viper 3A	-	MAP/WINE	M-F 38	-	-	-	AND	-	-	-	110	-	-
1984-Y39	2445731.27	1984 Jan 31 1823	Viper 3A	-	MAP/WINE	M-F 39	-	-	-	AND	-	-	-	118	-	-
1984-Y41	2445731.34	1984 Jan 31 2003	Viper 3A	-	MAP/WINE	M-F 40	-	-	-	AND	-	-	-	115	-	-
1984-Y46	2445736.33	1984 Feb 5 2000	Viper 3A	-	MAP/WINE	M-F 41	-	-	-	AND	-	-	-	114	-	-
1984-Y48	2445738.33	1984 Feb 7 2000	Viper 3A	-	MAP/WINE	M-F 42	-	-	-	AND	-	-	-	121	-	-
1984-Y51	2445739.63	1984 Feb 9 0304	Viper 3A	-	MAP/WINE	M-F 43	-	-	-	AND	-	-	-	111	-	-
1984-Y54	2445740.66	1984 Feb 10 0344	Viper 3A	-	MAP/WINE	M-F 44	-	-	-	AND	-	-	-	109	-	-
1984-Y56	2445740.73	1984 Feb 10 0529	Viper 3A	-	MAP/WINE	M-F 45	-	-	-	AND	-	-	-	114	-	-
1984-Y57	2445741.33	1984 Feb 10 2000	Viper 3A	-	MAP/WINE	M-F 46	-	-	-	AND	-	-	-	111	-	-
1984-Y60	2445743.33	1984 Feb 12 2000	Viper 3A	-	MAP/WINE	M-F 47	-	-	-	AND	-	-	-	112	-	-
1984-Y61	2445745.33	1984 Feb 14 2000	Viper 3A	-	MAP/WINE	M-F 48	-	-	-	AND	-	-	-	114	-	-
1984-Y62	2445746.56	1984 Feb 16 0120	Viper 3A	-	MAP/WINE	M-F 49	-	-	-	AND	-	-	-	117	-	-
1984-Y63	2445746.58	1984 Feb 16 0158	Viper 3A	-	MAP/WINE	M-F 50	-	-	-	AND	-	-	-	114	-	-
1984-Y64	2445747.33	1984 Feb 16 2000	Viper 3A	-	MAP/WINE	M-F 51	-	-	-	AND	-	-	-	100?	-	-
1984-Y65	2445748.51	1984 Feb 18 0021	Viper 3A	-	MAP/WINE	M-F 52	-	-	-	AND	-	-	-	115	-	-
1984-Y68	2445748.63	1984 Feb 18 0314	Viper 3A	-	MAP/WINE	M-F 53	-	-	-	AND	-	-	-	108	-	-
1984-Y70	2445748.69	1984 Feb 18 0440	Viper 3A	-	MAP/WINE	M-F 54	-	-	-	AND	-	-	-	118	-	-
1984-Y71	2445749.92	1984 Feb 19 1000	Viper 3A	-	MAP/WINE	M-F 55	-	-	-	AND	-	-	-	117	-	-
1984-Y72	2445749.97	1984 Feb 19 1122	Viper 3A	-	MAP/WINE	M-F 56	-	-	-	AND	-	-	-	99	-	-
1984-Y73	2445750.02	1984 Feb 19 1225:00	Viper 3A	-	M-F 057	-	-	-	-	AND	-	-	-	115	-	-
1984-Y74	2445751.33	1984 Feb 20 2000:00	Viper 3A	-	M-F 058	-	-	-	-	AND	-	-	-	115	-	-
1984-Y76	2445753.33	1984 Feb 22 2000:00	Viper 3A	-	M-F 059	-	-	-	-	AND	-	-	-	100?	-	-
1984-M77	2445754.00	1984 Feb 23 1200	Viper-Dart	-	-	E field	-	-	-	WI	-	-	-	75?	-	-
1987-A29	2446930.17	1987 May 14 1600	Viper 3A	?	MISTY PICTURE 1-20	Dust Collection x20	-	-	-	WS	-	-	-	20?	-	-
1987-Y399	2446957.07	1987 Jun 10 1340	Viper 3A	-	Sphere	MAC-SINE S-F1	-	-	-	AND	-	-	-	116	-	-
1987-Y400	2446958.96	1987 Jun 12 1100	Viper 3A	-	Sphere	MAC-SINE S-F2	-	-	-	AND	-	-	-	115	-	-
1987-Y401	2446961.98	1987 Jun 15 1124	Viper 3A	-	Sphere	MAC-SINE S-F3	-	-	-	AND	-	-	-	109	-	-
1987-Y402	2446963.96	1987 Jun 17 1103	Viper 3A	-	Sphere	MAC-SINE S-F4	-	-	-	AND	-	-	-	115	-	-
1987-Y403	2446965.96	1987 Jun 19 1105	Viper 3A	-	Sphere	MAC-SINE S-F5	-	-	-	AND	-	-	-	113	-	-
1987-Y404	2446968.98	1987 Jun 22 1129	Viper 3A	-	Sphere	MAC-SINE S-F6	-	-	-	AND	-	-	-	114	-	-
1987-Y405	2446970.96	1987 Jun 24 1100	Viper 3A	-	Sphere	MAC-SINE S-F7	-	-	-	AND	-	-	-	105	-	-
1987-Y408	2446971.08	1987 Jun 24 1358	Viper 3A	-	Sphere	MAC-SINE S-F8	-	-	-	AND	-	-	-	112	-	-
1987-Y409	2446972.96	1987 Jun 26 1100	Viper 3A	-	Sphere	MAC-SINE S-F9	-	-	-	AND	-	-	-	115	-	-
1987-Y410	2446973.09	1987 Jun 26 1412	Viper 3A	-	Sphere	MAC-SINE S-F10	-	-	-	AND	-	-	-	114	-	-
1987-Y197	2446975.96	1987 Jun 29 1106	Viper 3A	-	Sphere	MAC-SINE S-F11	-	-	-	AND	-	-	-	112	-	-
1987-Y200	2446978.38	1987 Jul 01 2108:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F12	-	-	-	AND	-	-	-	112	-	-
1987-Y203	2446978.46	1987 Jul 01 2305:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F13	-	-	-	AND	-	-	-	113	-	-
1987-Y206	2446979.96	1987 Jul 03 1100:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F14	-	-	-	AND	-	-	-	112	-	-
1987-Y208	2446983.03	1987 Jul 06 1240:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F15	-	-	-	AND	-	-	-	106	-	-
1987-Y210	2446985.04	1987 Jul 08 1300:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F16	-	-	-	AND	-	-	-	108	-	-
1987-Y213	2446987.01	1987 Jul 10 1212:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F17	-	-	-	AND	-	-	-	110	-	-
1987-Y75	2446990.33	1987 Jul 13 1955:00	Viper 3A	-	S-F18	MAC-SINE S-F18	-	-	-	AND	-	-	-	105	-	-
1987-Y217	2446990.84	1987 Jul 14 0811:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F19	-	-	-	AND	-	-	-	108	-	-
1987-Y218	2446990.86	1987 Jul 14 0832:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F20	-	-	-	AND	-	-	-	115	-	-
1987-Y223	2446990.96	1987 Jul 14 1102:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F21	-	-	-	AND	-	-	-	116	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1987-Y230	2446992.03	1987 Jul 15 1246:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F22	-	-	-	AND	-	-	-	107	-	-
1987-Y235	2446992.38	1987 Jul 15 2101:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F23	-	-	-	AND	-	-	-	117	-	-
1987-Y237	2446992.40	1987 Jul 15 2143:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F24	-	-	-	AND	-	-	-	113	-	-
1987-Y241	2446993.96	1987 Jul 17 1100:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F25	-	-	-	AND	-	-	-	112	-	-
1987-Y243	2446995.96	1987 Jul 19 1107:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F26	-	-	-	AND	-	-	-	115	-	-
1987-Y244	2446995.97	1987 Jul 19 1121:00	Viper 3A	-	FALLING SPHERE	MAC-SINE S-F27	-	-	-	AND	-	-	-	111	-	-
1987-Y302	2447083.95	1987 Oct 15 1047:00	Viper 3A	-	Sphere	MAC/EPSILON E-F1	-	-	-	AND	-	-	-	114	-	-
1987-Y306	2447084.05	1987 Oct 15 1308:00	Viper 3A	-	Chaff	MAC/EPSILON E-C3/SL	-	-	-	AND	-	-	-	114	-	-
1987-Y413	2447085.98	1987 Oct 17 1138:00	Viper 3A	-	Chaff Test 1	MAC/EPSILON E-C5/SL	-	-	-	AND	-	-	-	106	-	-
1987-Y311	2447090.39	1987 Oct 21 2128:00	Viper 3A	-	Sphere	MAC/EPSILON E-F2	-	-	-	AND	-	-	-	113	-	-
1987-Y312	2447090.41	1987 Oct 21 2146:00	Viper 3A	-	Chaff	MAC/EPSILON E-C6/SL	-	-	-	AND	-	-	-	101	-	-
1987-Y316	2447090.47	1987 Oct 21 2321:00	Viper 3A	-	Chaff	MAC/EPSILON E-C8/SL	-	-	-	AND	-	-	-	102	-	-
1987-Y343	2447111.50	1987 Nov 11 2358:00	Viper 3A	-	Sphere	MAC/EPSILON E-F3	-	-	-	AND	-	-	-	107	-	-
1987-Y344	2447111.51	1987 Nov 12 0016:00	Viper 3A	-	Sphere	MAC/EPSILON E-F4	-	-	-	AND	-	-	-	106	-	-
1988-Y291	2447337.35	1988 Jun 24 2028	Viper 3A	-	Chaff NC01 EL Na	Sodium-88 M-N01	-	-	-	AND	-	-	-	98	-	-
1988-Y292	2447337.40	1988 Jun 24 2135	Viper 3A	-	Chaff NC02 EL Na	Sodium-88 M-N02	-	-	-	AND	-	-	-	98	-	-
1988-Y293	2447337.42	1988 Jun 24 2210	Viper 3A	-	Chaff NC03 EL Na	Sodium-88 M-N03	-	-	-	AND	-	-	-	98	-	-
1988-Y294	2447337.43	1988 Jun 24 2222	Viper 3A	-	Chaff NC04 EL Na	Sodium-88 M-N04	-	-	-	AND	-	-	-	98	-	-
1988-Y295	2447337.46	1988 Jun 24 2256	Viper 3A	-	Chaff NC05 EL Na	Sodium-88 M-N05	-	-	-	AND	-	-	-	98	-	-
1988-Y296	2447342.40	1988 Jun 29 2143	Viper 3A	-	Chaff NC06 EL Na	Sodium-88 M-N06	-	-	-	AND	-	-	-	98	-	-
1988-Y297	2447347.44	1988 Jul 4 2227	Viper 3A	-	Chaff NC07 EL Na	Sodium-88 M-N07	-	-	-	AND	-	-	-	98	-	-
1988-Y298	2447355.43	1988 Jul 12 2220	Viper 3A	-	Chaff NC08 EL Na	Sodium-88 M-N08	-	-	-	AND	-	-	-	98	-	-
1988-Y299	2447355.47	1988 Jul 12 2313	Viper 3A	-	Chaff NC09 EL Na	Sodium-88 M-N09	-	-	-	AND	-	-	-	98	-	-
1988-Y300	2447355.50	1988 Jul 13 0003	Viper 3A	-	Chaff NC10 EL Na	Sodium-88 M-N10	-	-	-	AND	-	-	-	98	-	-
1990-Y22	2447904.38	1990 Jan 12 2100	Viper 3A	-	Sphere	DYANA DAS3	-	-	-	AND	-	-	-	113	-	-
1990-Y23	2447904.41	1990 Jan 12 2148:05	Viper 3A	-	Sphere	DYANA DAS4	-	-	-	AND	-	-	-	102	-	-
1990-Y24	2447905.40	1990 Jan 13 2134:00	Viper 3A	-	Sphere	DYANA DAS5	-	-	-	AND	-	-	-	92	-	-
1990-Y26	2447907.03	1990 Jan 15 1240	Viper 3A	-	Chaff	DYANA DBC1	-	-	-	CEL	-	-	-	92	-	-
1990-Y29	2447907.30	1990 Jan 15 1915	Viper 3A	-	Sphere	DYANA DBS2	-	-	-	CEL	-	-	-	92	-	-
1990-Y30	2447907.33	1990 Jan 15 2000	Viper 3A	-	Chaff	DYANA DBC3	-	-	-	CEL	-	-	-	92	-	-
1990-Y31	2447907.34	1990 Jan 15 2005	Viper 3A	-	Sphere	DYANA DAS6	-	-	-	AND	-	-	-	109	-	-
1990-Y42	2447909.33	1990 Jan 17 2000	Viper 3A	-	Sphere	DYANA DAS7	-	-	-	AND	-	-	-	119	-	-
1990-Y43	2447909.36	1990 Jan 17 2042:35	Viper 3A	-	Chaff	DYANA DAC8	-	-	-	AND	-	-	-	111	-	-
1990-Y44	2447910.32	1990 Jan 18 1935	Viper 3A	-	Chaff	DYANA DBC4	-	-	-	CEL	-	-	-	90	-	-
1990-Y45	2447910.34	1990 Jan 18 2004	Viper 3A	-	Sphere	DYANA DBS5	-	-	-	CEL	-	-	-	90	-	-
1990-Y54	2447911.33	1990 Jan 19 2000	Viper 3A	-	Sphere	DYANA DAS11	-	-	-	AND	-	-	-	114	-	-
1990-Y55	2447913.91	1990 Jan 22 0955:00	Viper 3A	-	Sphere	DYANA DAS12	-	-	-	AND	-	-	-	111	-	-
1990-Y57	2447913.97	1990 Jan 22 1121:00	Viper 3A	-	Chaff	DYANA DAC14	-	-	-	AND	-	-	-	103	-	-
1990-Y58	2447913.99	1990 Jan 22 1145:00	Viper 3A	-	Sphere	DYANA DAS15	-	-	-	AND	-	-	-	113	-	-
1990-Y60	2447914.30	1990 Jan 22 1915:00	Viper 3A	-	Sphere	DYANA DBS6	-	-	-	CEL	-	-	-	90	-	-
1990-Y74	2447916.33	1990 Jan 24 2001:30	Viper 3A	-	Sphere	DYANA DAS18	-	-	-	AND	-	-	-	117	-	-
1990-Y80	2447920.33	1990 Jan 28 2000	Viper 3A	-	Sphere	DYANA DAS20	-	-	-	AND	-	-	-	90	-	-
1990-Y81	2447920.37	1990 Jan 28 2050:58	Viper 3A	-	Chaff	DYANA DAC22	-	-	-	AND	-	-	-	90	-	-
1990-Y97	2447923.33	1990 Jan 31 2000	Viper 3A	-	Sphere	DYANA DAS25	-	-	-	AND	-	-	-	112	-	-
1990-Y98	2447923.35	1990 Jan 31 2024	Viper 3A	-	Chaff	DYANA DAC26	-	-	-	AND	-	-	-	99	-	-
1990-Y100	2447924.30	1990 Feb 1 1917	Viper 3A	-	Chaff	DYANA DBC7	-	-	-	CEL	-	-	-	99	-	-
1990-Y101	2447924.32	1990 Feb 1 1947	Viper 3A	-	Sphere	DYANA DBS8	-	-	-	CEL	-	-	-	95	-	-
1990-Y109	2447928.30	1990 Feb 5 1905	Viper 3A	-	Chaff	DYANA DBC9	-	-	-	CEL	-	-	-	96	-	-
1990-Y110	2447928.32	1990 Feb 5 1945	Viper 3A	-	Sphere	DYANA DBS10	-	-	-	CEL	-	-	-	96	-	-
1990-Y120	2447930.33	1990 Feb 7 1956:30	Viper 3A	-	Sphere	DYANA DAS30	-	-	-	AND	-	-	-	118	-	-
1990-Y121	2447930.35	1990 Feb 7 2022	Viper 3A	-	Chaff	DYANA DAC31	-	-	-	AND	-	-	-	105	-	-
1990-Y124	2447931.35	1990 Feb 8 2026	Viper 3A	-	Chaff	DYANA DBC11	-	-	-	CEL	-	-	-	90?	-	-
1990-Y125	2447931.37	1990 Feb 8 2051	Viper 3A	-	Sphere	DYANA DBS12	-	-	-	CEL	-	-	-	90?	-	-
1990-Y130	2447933.38	1990 Feb 10 2103	Viper 3A	-	Sphere	DYANA DAS35	-	-	-	AND	-	-	-	106	-	-
1990-Y328	2447938.00	1990 Feb 15 1200	Viper 3A	-	VP-3	-	-	-	-	KASC	-	-	-	112	-	-
1990-Y142	2447937.33	1990 Feb 14 2000	Viper 3A	-	Sphere	DYANA DAS37	-	-	-	AND	-	-	-	114	-	-
1990-A11	2447937.35	1990 Feb 14 2026	Viper 3A	-	Chaff	DYANA DAC38	-	-	-	AND	-	-	-	0?	-	-
1990-S189	2447937.35	1990 Feb 14 2026	Viper 3A	-	Chaff	DYANA DAC39	-	-	-	AND	-	-	-	107	-	-
1990-Y327	2447938.00	1990 Feb 15 1200	Viper 3A	-	VP-4	-	-	-	-	KASC	-	-	-	112	-	-
1990-Y147	2447940.00	1990 Feb 17 1200	Viper 3A	-	Sphere VP-5	DYANA DUS8	-	-	-	KASC	-	-	-	112	-	-
1990-Y149	2447940.35	1990 Feb 17 2024:48	Viper 3A	-	Chaff	DYANA DAC42	-	-	-	AND	-	-	-	90?	-	-
1990-Y156	2447942.62	1990 Feb 20 0300	Viper 3A	-	Chaff	DYANA DBC13	-	-	-	CEL	-	-	-	90?	-	-
1990-Y157	2447942.64	1990 Feb 20 0325	Viper 3A	-	Sphere	DYANA DBS14	-	-	-	CEL	-	-	-	90?	-	-
1990-Y159	2447942.66	1990 Feb 20 0350	Viper 3A	-	Chaff	DYANA DBC15	-	-	-	CEL	-	-	-	90?	-	-
1990-Y160	2447942.72	1990 Feb 20 0514	Viper 3A	-	Sphere	DYANA DBS16	-	-	-	CEL	-	-	-	90?	-	-
1990-Y161	2447942.74	1990 Feb 20 0539	Viper 3A	-	Chaff	DYANA DBC17	-	-	-	CEL	-	-	-	90?	-	-
1990-Y162	2447942.75	1990 Feb 20 0604	Viper 3A	-	Chaff	DYANA DBC18	-	-	-	CEL	-	-	-	89	-	-
1990-Y163	2447942.77	1990 Feb 20 0629	Viper 3A	-	Sphere	DYANA DBS19	-	-	-	CEL	-	-	-	90?	-	-
1990-Y164	2447942.79	1990 Feb 20 0654	Viper 3A	-	Chaff	DYANA DBC20	-	-	-	CEL	-	-	-	90?	-	-
1990-Y169	2447944.34	1990 Feb 21 2005:42	Viper 3A	-	Sphere	DYANA DAS45	-	-	-	AND	-	-	-	117	-	-
1990-Y170	2447945.30	1990 Feb 22 1906	Viper 3A	-	Chaff	DYANA DBC21	-	-	-	CEL	-	-	-	90?	-	-
1990-Y171	2447945.31	1990 Feb 22 1930	Viper 3A	-	Sphere	DYANA DBS22	-	-	-	CEL	-	-	-	90?	-	-
1990-Y176	2447947.00	1990 Feb 24 1200	Viper 3A	-	Sphere VP-7	DYANA DUS9	-	-	-	KASC	-	-	-	112	-	-
1990-Y177	2447947.37	1990 Feb 24 2048:55	Viper 3A	-	Sphere	DYANA DAS47	-	-	-	AND	-	-	-	105	-	-
1990-Y178	2447948.27	1990 Feb 25 1825	Viper 3A	-	Chaff	DYANA DAC48	-	-	-	AND	-	-	-	95	-	-
1990-Y179	2447948.29	1990 Feb 25 1904	Viper 3A	-	Sphere	DYANA DAS49	-	-	-	AND	-	-	-	111	-	-
1990-Y180	2447948.32	1990 Feb 25 1940	Viper 3A	-	Chaff	DYANA DAC51	-	-	-	AND	-	-	-	95	-	-
1990-Y181	2447948.34	1990 Feb 25 2004	Viper 3A	-	Sphere	DYANA DAS52	-	-	-	AND	-	-	-	117	-	-
1990-Y183	2447949.00	1990 Feb 26 1200	Viper 3A	-	Sphere VP-8	DYANA DUS10	-	-	-	KASC	-	-	-	112	-	-
1990-A12	2447951.37	1990 Feb 28 2046	Viper 3A	-	Sphere	DYANA DAS54	-	-	-	AND	-	-	-	0?	-	-
1990-Y191	2447951.38	1990 Feb 28 2109	Viper 3A	-	Sphere	DYANA DAS55	-	-	-	AND	-	-	-	117	-	-
1990-Y192	2447952.31	1990 Mar 1 1930	Viper 3A	-	Chaff	DYANA DBC23	-	-	-	CEL	-	-	-	90?	-	-
1990-Y193	2447952.33	1990 Mar 1 2000	Viper 3A	-	Sphere	DYANA DBS24	-	-	-	CEL	-	-	-	90?	-	-
1990-Y198	2447953.31	1990 Mar 2 1931	Viper 3A	-	Sphere	DYANA DAS58	-	-	-	AND	-	-	-	101	-	-
1990-Y202	2447956.59	1990 Mar 6 0203	Viper 3A	-	Chaff	DYANA DAC60	-	-	-	AND	-	-	-	98	-	-
1990-Y203	2447956.60	1990 Mar 6 0219	Viper 3A	-	Sphere	DYANA DAS61	-	-	-	AND	-	-	-	117	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1990-Y204	2447956.63	1990 Mar 6 0301	Viper 3A	-	Chaff	DYANA DAC63	-	-	-	AND	-	-	-	99	-	-
1990-Y205	2447956.65	1990 Mar 6 0331	Viper 3A	-	Sphere	DYANA DAS64	-	-	-	AND	-	-	-	115	-	-
1990-Y207	2447956.71	1990 Mar 6 0503:30	Viper 3A	-	Sphere	DYANA DBS26	-	-	-	CEL	-	-	-	110	-	-
1990-Y208	2447956.73	1990 Mar 6 0538	Viper 3A	-	Chaff	DYANA DBC27	-	-	-	CEL	-	-	-	90?	-	-
1990-Y209	2447956.75	1990 Mar 6 0558:30	Viper 3A	-	Sphere	DYANA DBS28	-	-	-	CEL	-	-	-	109	-	-
1990-Y210	2447956.76	1990 Mar 6 0620	Viper 3A	-	Sphere	DYANA DBS29	-	-	-	CEL	-	-	-	109	-	-
1990-Y211	2447956.78	1990 Mar 6 0640	Viper 3A	-	Chaff	DYANA DBC30	-	-	-	CEL	-	-	-	90?	-	-
1990-Y212	2447956.79	1990 Mar 6 0700	Viper 3A	-	Chaff	DYANA DBC31	-	-	-	CEL	-	-	-	90?	-	-
1990-Y215	2447958.31	1990 Mar 7 1932	Viper 3A	-	Sphere	DYANA DAS65	-	-	-	AND	-	-	-	117	-	-
1990-Y216	2447958.33	1990 Mar 7 1959	Viper 3A	-	Chaff	DYANA DAC66	-	-	-	AND	-	-	-	99	-	-
1990-Y217	2447958.35	1990 Mar 7 2030	Viper 3A	-	Chaff	DYANA DAC67	-	-	-	AND	-	-	-	101	-	-
1990-Y218	2447958.38	1990 Mar 7 2114	Viper 3A	-	Sphere	DYANA DAS68	-	-	-	AND	-	-	-	115	-	-
1990-Y220	2447959.29	1990 Mar 8 1900	Viper 3A	-	Chaff	DYANA DBC32	-	-	-	CEL	-	-	-	90?	-	-
1990-Y222	2447959.31	1990 Mar 8 1930	Viper 3A	-	Chaff	DYANA DBC33	-	-	-	CEL	-	-	-	90?	-	-
1990-Y224	2447959.40	1990 Mar 8 2141	Viper 3A	-	Chaff	DYANA DAC70	-	-	-	AND	-	-	-	99	-	-
1990-Y225	2447959.42	1990 Mar 8 2210	Viper 3A	-	Chaff	DYANA DAC71	-	-	-	AND	-	-	-	95	-	-
1990-Y226	2447959.44	1990 Mar 8 2237	Viper 3A	-	Sphere	DYANA DAS72	-	-	-	AND	-	-	-	119	-	-
1990-Y227	2447959.47	1990 Mar 8 2314	Viper 3A	-	Chaff	DYANA DAC74	-	-	-	AND	-	-	-	97	-	-
1990-Y228	2447959.49	1990 Mar 8 2345	Viper 3A	-	Chaff	DYANA DAC75	-	-	-	AND	-	-	-	90?	-	-
1990-Y229	2447959.53	1990 Mar 9 0045	Viper 3A	-	Sphere	DYANA DAS77	-	-	-	AND	-	-	-	114	-	-
1990-Y230	2447959.55	1990 Mar 9 0105	Viper 3A	-	Chaff	DYANA DAC78	-	-	-	AND	-	-	-	101	-	-
1990-Y232	2447960.35	1990 Mar 9 2019	Viper 3A	-	Sphere	DYANA DAS79	-	-	-	AND	-	-	-	106	-	-
1990-Y233	2447962.31	1990 Mar 11 1921	Viper 3A	-	Sphere	DYANA DAS80	-	-	-	AND	-	-	-	113	-	-
1990-Y234	2447962.32	1990 Mar 11 1941	Viper 3A	-	Chaff	DYANA DAC81	-	-	-	AND	-	-	-	103	-	-
1990-A14	2447962.34	1990 Mar 11 2010	Viper 3A	-	Sphere	DYANA DAS82	-	-	-	AND	-	-	-	6	-	-
1990-Y235	2447962.35	1990 Mar 11 2024	Viper 3A	-	Sphere	DYANA DAS83	-	-	-	AND	-	-	-	112	-	-
1990-Y236	2447962.38	1990 Mar 11 2103	Viper 3A	-	Chaff	DYANA DAC85	-	-	-	AND	-	-	-	97	-	-
1990-Y237	2447962.40	1990 Mar 11 2132	Viper 3A	-	Sphere	DYANA DAS86	-	-	-	AND	-	-	-	114	-	-
1990-Y238	2447962.41	1990 Mar 11 2152	Viper 3A	-	Chaff	DYANA DAC87	-	-	-	AND	-	-	-	96	-	-
1990-Y239	2447962.43	1990 Mar 11 2224	Viper 3A	-	Chaff	DYANA DAC88	-	-	-	AND	-	-	-	97	-	-
1990-Y245	2447963.61	1990 Mar 13 0245	Viper 3A	-	Sphere	DYANA DBS34	-	-	-	CEL	-	-	-	93	-	-
1990-Y246	2447963.63	1990 Mar 13 0310	Viper 3A	-	Chaff	DYANA DBC35	-	-	-	CEL	-	-	-	98	-	-
1990-Y247	2447963.65	1990 Mar 13 0340	Viper 3A	-	Sphere	DYANA DBS36	-	-	-	CEL	-	-	-	95	-	-
1990-Y249	2447963.67	1990 Mar 13 0404	Viper 3A	-	Chaff	DYANA DBC37	-	-	-	CEL	-	-	-	104	-	-
1990-Y250	2447963.69	1990 Mar 13 0440	Viper 3A	-	Sphere	DYANA DBS38	-	-	-	CEL	-	-	-	90?	-	-
1990-Y251	2447963.71	1990 Mar 13 0500	Viper 3A	-	Chaff	DYANA DBC39	-	-	-	CEL	-	-	-	102	-	-
1990-Y252	2447963.72	1990 Mar 13 0520	Viper 3A	-	Sphere	DYANA DBS40	-	-	-	CEL	-	-	-	95	-	-
1990-Y255	2447966.31	1990 Mar 15 1921	Viper 3A	-	Sphere	DYANA DBS41	-	-	-	CEL	-	-	-	90?	-	-
1990-Y332	2448099.48	1990 Jul 26 2325	Viper 3A	-	Robin Sphere	SISSI RD1	-	-	-	ESR	-	-	-	115	-	-
1990-Y334	2448106.46	1990 Aug 2 2301	Viper 3A	-	Robin Sphere	SISSI RD2	-	-	-	ESR	-	-	-	118	-	-
1991-Y48	2448356.26	1991 Apr 9 1818	Viper 3A	-	Robin Sphere	SISSI RD1	-	-	-	ESR	-	-	-	110?	-	-
1991-Y49	2448356.31	1991 Apr 9 1920	Viper 3A	-	Robin Sphere	SISSI RD2	-	-	-	ESR	-	-	-	110?	-	-
1991-Y21	2448448.50	1991 Jul 11	Viper 3A	-	-	Imaging Radiometer	-	-	-	IXC	-	-	-	90	-	-
1991-Y44	2448469.54	1991 Aug 1 0103:00	Viper 3A	-	Sphere NLC-91	N-B-S01 PMSE	-	-	-	ESR	-	-	-	112	-	-
1991-Y23	2448469.58	1991 Aug 1 0154:00	Viper 3A	-	Sphere NLC-91	N-B-S06 PMSE	-	-	-	ESR	-	-	-	111	-	-
1991-Y24	2448469.60	1991 Aug 1 0224:00	Viper 3A	-	Chaff NLC-91	N-B-C07 PMSE (VCH28)	-	-	-	ESR	-	-	-	115	-	-
1991-Y25	2448469.61	1991 Aug 1 0239:00	Viper 3A	-	Sphere NLC-91	N-B-S08 PMSE	-	-	-	ESR	-	-	-	112	-	-
1991-Y45	2448474.48	1991 Aug 5 2332:00	Viper 3A	-	Sphere NLC-91	N-C-S10 Salvo C	-	-	-	ESR	-	-	-	113	-	-
1991-Y46	2448478.44	1991 Aug 9 2239:00	Viper 3A	-	Sphere NLC-91	N-A-S11 NLC	-	-	-	ESR	-	-	-	5	-	-
1991-Y28	2448478.45	1991 Aug 9 2253:00	Viper 3A	-	Sphere NLC-91	N-A-S12 NLC	-	-	-	ESR	-	-	-	115	-	-
1991-Y30	2448478.50	1991 Aug 10 0006:00	Viper 3A	-	Sphere NLC-91	N-A-S18 NLC	-	-	-	ESR	-	-	-	101	-	-
1991-Y31	2448478.52	1991 Aug 10 0024:00	Viper 3A	-	Chaff NLC-91	N-A-C19 NLC (VCH42)	-	-	-	ESR	-	-	-	115?	-	-
1991-Y47	2448478.57	1991 Aug 10 0142:00	Viper 3A	-	Sphere NLC-91	N-A-S21 NLC	-	-	-	ESR	-	-	-	117	-	-
1991-S197	2448517.50	1991 Sep 18 0007:00	Viper 3A	-	Chaff	METAL/L-C2	-	-	-	AND	-	-	-	90?	-	-
1991-S198	2448517.53	1991 Sep 18 0048:13	Viper 3A	-	Chaff	METAL/L-C3	-	-	-	AND	-	-	-	90?	-	-
1991-S199	2448517.55	1991 Sep 18 0106:00	Viper 3A	-	Sphere	METAL/L-S4	-	-	-	AND	-	-	-	108	-	-
1991-S200	2448517.56	1991 Sep 18 0128:30	Viper 3A	-	Chaff	METAL/L-C5	-	-	-	AND	-	-	-	100	-	-
1991-S201	2448520.38	1991 Sep 20 2108:00	Viper 3A	-	Chaff	METAL/L-C7	-	-	-	AND	-	-	-	100	-	-
1991-S202	2448520.40	1991 Sep 20 2130:40	Viper 3A	-	Sphere	METAL/L-S8	-	-	-	AND	-	-	-	109	-	-
1991-S203	2448520.46	1991 Sep 20 2300:00	Viper 3A	-	Chaff	METAL/L-C10	-	-	-	AND	-	-	-	100?	-	-
1991-S204	2448520.47	1991 Sep 20 2323:30	Viper 3A	-	Sphere	METAL/L-S11	-	-	-	AND	-	-	-	109	-	-
1991-S206	2448530.38	1991 Sep 30 2108:11	Viper 3A	-	Chaff	METAL/L-C14	-	-	-	AND	-	-	-	100?	-	-
1991-A07	2448530.39	1991 Sep 30 2119:46	Viper 3A	-	Sphere	METAL/L-S15	-	-	-	AND	-	-	-	8	-	-
1991-S207	2448530.40	1991 Sep 30 2130:09	Viper 3A	-	Sphere	METAL/L-S16	-	-	-	AND	-	-	-	114	-	-
1991-S208	2448533.45	1991 Oct 3 2242:00	Viper 3A	-	Chaff	METAL/L-C18	-	-	-	AND	-	-	-	100?	-	-
1991-S209	2448533.46	1991 Oct 3 2302:30	Viper 3A	-	Sphere	METAL/L-S19	-	-	-	AND	-	-	-	100?	-	-
1991-S210	2448533.47	1991 Oct 3 2316:30	Viper 3A	-	Sphere	METAL/L-S20	-	-	-	AND	-	-	-	112	-	-
1991-S211	2448533.52	1991 Oct 4 0023:30	Viper 3A	-	Chaff	METAL/L-C22	-	-	-	AND	-	-	-	102	-	-
1991-S212	2448533.53	1991 Oct 4 0044:00	Viper 3A	-	Sphere	METAL/L-S23	-	-	-	AND	-	-	-	100?	-	-
1991-S213	2448533.54	1991 Oct 4 0102:30	Viper 3A	-	Sphere	METAL/L-S24	-	-	-	AND	-	-	-	100?	-	-
1992-W46	2448735.50	1992 Apr 23	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1992-W54	2448776.50	1992 Jun 3	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1992-W77	2448828.04	1992 Jul 24 1301:20	Viper 3A	?	-	-	-	-	-	PF	-	-	-	75?	-	-
1992-W78	2448829.03	1992 Jul 25 1246:00	Viper 3A	?	-	-	-	-	-	PF	-	-	-	75?	-	-
1993-Y42	2449196.74	1993 Jul 28 0543	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	116	-	-
1993-Y43	2449198.76	1993 Jul 30 0619	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	116	-	-
1993-Y38	2449201.53	1993 Aug 2 0037	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	110	-	-
1993-Y39	2449201.56	1993 Aug 2 0124	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	105	-	-
1993-Y40	2449201.64	1993 Aug 2 0324	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	106	-	-
1993-Y41	2449201.75	1993 Aug 2 0554	Viper 3A	-	Sphere NLC-93	-	-	-	-	ESR	-	-	-	107	-	-
1994-Y03	2449581.10	1994 Aug 16 1422	Viper 3A	-	Sphere	GUARA MET NRO1874	-	-	-	ALCA	-	-	-	90	-	-
1994-Y19	2449581.50	1994 Aug 17?	Viper 3A	-	Sphere	GUARA MET NRO1875?	-	-	-	ALCA	-	-	-	90	-	-
1994-Y04	2449582.15	1994 Aug 17 1540	Viper 3A	-	Sphere	GUARA MET NRO1876	-	-	-	ALCA	-	-	-	90	-	-
1994-Y05	2449583.09	1994 Aug 18 1408	Viper 3A	-	Sphere	GUARA MET NRO1877	-	-	-	ALCA	-	-	-	90	-	-
1994-Y06	2449584.10	1994 Aug 19 1424	Viper 3A	-	Sphere	GUARA MET NRO1878	-	-	-	ALCA	-	-	-	90	-	-
1994-Y07	2449584.33	1994 Aug 19 2000	Viper 3A	-	Sphere	GUARA MET NRO1879	-	-	-	ALCA	-	-	-	90	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1994-Y20	2449584.50	1994 Aug 20?	Viper 3A	-	Sphere	GUARA MET NRO1880?	-	-	-	ALCA	-	-	-	90	-	-
1994-Y08	2449584.66	1994 Aug 20 0356	Viper 3A	-	Sphere	GUARA MET NRO1881	-	-	-	ALCA	-	-	-	90	-	-
1994-Y09	2449584.83	1994 Aug 20 0800	Viper 3A	-	Sphere	GUARA MET NRO1882	-	-	-	ALCA	-	-	-	90	-	-
1994-Y10	2449584.86	1994 Aug 20 0835	Viper 3A	-	Sphere	GUARA MET NRO1883	-	-	-	ALCA	-	-	-	90	-	-
1994-Y11	2449585.11	1994 Aug 20 1432	Viper 3A	-	Sphere	GUARA MET NRO1892	-	-	-	ALCA	-	-	-	90	-	-
1994-Y12	2449586.11	1994 Aug 21 1439	Viper 3A	-	Sphere	GUARA MET NRO1894	-	-	-	ALCA	-	-	-	90	-	-
1994-Y21	2449586.50	1994 Aug 22?	Viper 3A	-	Sphere	GUARA MET NRO1895?	-	-	-	ALCA	-	-	-	90	-	-
1994-Y13	2449587.19	1994 Aug 22 1627	Viper 3A	-	Sphere	GUARA MET NRO1896	-	-	-	ALCA	-	-	-	90	-	-
1994-Y14	2449588.07	1994 Aug 23 1346	Viper 3A	-	Sphere	GUARA MET NRO1897	-	-	-	ALCA	-	-	-	90	-	-
1994-Y15	2449589.08	1994 Aug 24 1352	Viper 3A	-	Sphere	GUARA MET NRO1898	-	-	-	ALCA	-	-	-	90	-	-
1994-Y16	2449589.33	1994 Aug 24 2002	Viper 3A	-	Sphere	GUARA MET NRO1899	-	-	-	ALCA	-	-	-	90	-	-
1994-Y22	2449589.50	1994 Aug 25?	Viper 3A	-	Sphere	GUARA MET NRO1900?	-	-	-	ALCA	-	-	-	90	-	-
1994-Y17	2449589.61	1994 Aug 25 0244	Viper 3A	-	Sphere	GUARA MET NRO1901	-	-	-	ALCA	-	-	-	90	-	-
1994-Y18	2449589.89	1994 Aug 25 0926	Viper 3A	-	Sphere	GUARA MET NRO1902	-	-	-	ALCA	-	-	-	90	-	-
1995-W04	2449796.50	1995 Mar 20	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1995-W05	2449818.50	1995 Apr 11	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1995-W06	2449839.50	1995 May 2	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1995-W07	2449868.50	1995 May 31	Viper 3A	?	Aerosole	-	-	-	-	AND	-	-	-	75?	-	-
1996-Y03	2450121.50	1996 Feb 8	Viper 3A	?	Wind	-	-	-	-	KASC	-	-	-	110	-	-
1996-Y01	2450244.50	1996 Jun 10	Viper 3A	-	NASA 12.48WT	-	-	-	-	WI	-	-	-	100?	-	-
1996-A10	2450291.50	1996 Jul 27	Viper 3A	-	-	Mini-DUSTY MD-01	-	-	-	AND	-	-	-	40?	-	-
1996-A11	2450294.50	1996 Jul 30	Viper 3A	-	-	Mini-DUSTY MD-02	-	-	-	AND	-	-	-	40?	-	-
1996-Y04	2450400.50	1996 Nov 13	Viper 3A	-	-	Mini-DUSTY MD-03	-	-	-	AND	-	-	-	100?	-	-
1997-Y01	2450463.00	1997 Jan 14 1200	Viper 3A	-	-	Chaff	-	-	-	KASC	-	-	-	100	-	-
1997-Y02	2450463.05	1997 Jan 14 1315	Viper 3A	-	-	Chaff	-	-	-	KASC	-	-	-	100	-	-
1997-Y37	2450590.50	1997 May 22	Viper 3A	-	-	Mini-DUSTY MD-04	-	-	-	AND	-	-	-	100?	-	-
1997-W31	2450644.50	1997 Jul 15	Viper 3A	-	-	-	-	-	-	AND	-	-	-	75?	-	-
1997-W37	2450665.48	1997 Aug 4 2328	Viper 3A	-	Falling Sphere	AND-22 TTS07	-	-	-	AND	-	-	-	75?	-	-
1997-W46	2450668.46	1997 Aug 7 2302	Viper 3A	-	Falling Sphere 6	AND-22 TTS08/TRAMP	-	-	-	AND	-	-	-	75?	-	-
1997-Y12	2450671.07	1997 Aug 10 1336	Viper 3A	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	123	-	-
1997-W52	2450671.49	1997 Aug 10 2351	Viper 3A	-	Falling Sphere 7	AND-22 TTS09/TRAMP	-	-	-	AND	-	-	-	75?	-	-
1997-W53	2450671.51	1997 Aug 11 0016	Viper 3A	-	Chaff 3	AND-22 TTC10/TRAMP	-	-	-	AND	-	-	-	75?	-	-
1997-Y16	2450672.07	1997 Aug 11 1343	Viper 3A	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	119	-	-
1997-Y19	2450673.01	1997 Aug 12 1215	Viper 3A	-	Falling Sphere	CRISTA	-	-	-	WI	-	-	-	124	-	-
1997-Y27	2450675.02	1997 Aug 14 1227	Viper 3A	-	Sphere	CRISTA	-	-	-	WI	-	-	-	125	-	-
1997-W58	2450675.33	1997 Aug 14 2000	Viper 3A	-	Sphere 8	AND-22 CRISTA TTS11	-	-	-	AND	-	-	-	75?	-	-
1997-W59	2450675.35	1997 Aug 14 2022	Viper 3A	-	Chaff 4	AND-22 CRISTA TTC12	-	-	-	AND	-	-	-	101?	-	-
1997-Y28	2450675.41	1997 Aug 14 2153	Viper 3A	-	Sphere	CRISTA	-	-	-	WI	-	-	-	124	-	-
1997-Y29	2450675.96	1997 Aug 15 1058	Viper 3A	-	-	CRISTA	-	-	-	WI	-	-	-	115	-	-
1997-W67	2450699.50	1997 Sep 8	Viper 3A	-	-	-	-	-	-	AND	-	-	-	75?	-	-
1997-Y36	2450773.32	1997 Nov 20 1934:00	Viper 3A	-	F-111 ISBJORN-2	Mini-DUSTY MD-05	-	-	-	SVAL	-	-	-	97	-	-
1998-Y01	2450818.30	1998 Jan 4 1910	Viper 3A	?	-	TPS01	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y02	2450819.42	1998 Jan 5 2200	Viper 3A	?	-	TPS02	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y03	2450822.26	1998 Jan 8 1815	Viper 3A	?	-	TPS03	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y04	2450822.39	1998 Jan 8 2115	Viper 3A	?	-	TPS04	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y05	2450824.12	1998 Jan 10 1500	Viper 3A	?	-	TPS05	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y06	2450828.24	1998 Jan 14 1740	Viper 3A	?	-	TPS06	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y07	2450830.19	1998 Jan 16 1635	Viper 3A	?	-	TPS07	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y08	2450833.21	1998 Jan 19 1700	Viper 3A	?	-	TPS08	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y09	2450835.05	1998 Jan 21 1305	Viper 3A	?	-	TPS09	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y11	2450837.22	1998 Jan 23 1712	Viper 3A	?	-	TPS10	-	-	-	ROTH	-	-	-	100?	-	-
1998-A04	2450838.71	1998 Jan 25 0500	Viper 3A	-	-	Chaff	-	-	-	KASC	-	-	-	10?	-	-
1998-A05	2450838.79	1998 Jan 25 0700	Viper 3A	-	-	Chaff	-	-	-	KASC	-	-	-	10?	-	-
1998-Y12	2450840.21	1998 Jan 26 1703	Viper 3A	?	-	TPS11	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y13	2450842.21	1998 Jan 28 1705	Viper 3A	?	-	TPS12	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y14	2450844.21	1998 Jan 30 1700	Viper 3A	?	-	TPS13	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y15	2450846.26	1998 Feb 1 1815	Viper 3A	?	-	TPS14	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y16	2450849.27	1998 Feb 4 1830	Viper 3A	?	-	TPS15	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y17	2450851.22	1998 Feb 6 1718	Viper 3A	?	-	TPS16	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y18	2450852.17	1998 Feb 7 1610	Viper 3A	?	-	TPS17	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y19	2450854.26	1998 Feb 9 1810	Viper 3A	?	-	TPS18	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y20	2450856.25	1998 Feb 11 1800	Viper 3A	?	-	TPS19	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y21	2450858.21	1998 Feb 13 1700	Viper 3A	?	-	TPS20	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y22	2450862.07	1998 Feb 17 1334	Viper 3A	?	-	TPS21	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y23	2450862.20	1998 Feb 17 1647	Viper 3A	?	-	TPS22	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y24	2450864.21	1998 Feb 19 1700	Viper 3A	?	-	TPS23	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y25	2450868.34	1998 Feb 23 2015	Viper 3A	?	-	TPS24	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y26	2450870.17	1998 Feb 25 1605	Viper 3A	?	-	TPS25	-	-	-	ROTH	-	-	-	100?	-	-
1998-Y27	2450872.38	1998 Feb 27 2100	Viper 3A	?	-	TPS26	-	-	-	ROTH	-	-	-	100?	-	-
1999-W05	2451364.50	1999 Jul 5 0004	Viper 3A	-	MD-FS-02	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W06	2451365.47	1999 Jul 5 2313	Viper 3A	-	MD-FS-03	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W07	2451365.53	1999 Jul 6 0046	Viper 3A	-	MD-MD-06	Mini-DUSTY MD-06	-	-	-	AND	-	-	-	120?	-	-
1999-W08	2451365.55	1999 Jul 6 0111	Viper 3A	-	MD-MM-07	Mini-Midas	-	-	-	AND	-	-	-	120?	-	-
1999-W09	2451365.56	1999 Jul 6 0128	Viper 3A	-	MD-FS-08	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W10	2451365.58	1999 Jul 6 0149	Viper 3A	-	MD-FS-09	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W11	2451365.59	1999 Jul 6 0209:30	Viper 3A	-	MD-FS-10	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W13	2451373.60	1999 Jul 14 0226	Viper 3A	-	MD-FS-12	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W14	2451373.66	1999 Jul 14 0351	Viper 3A	-	MD-MD-14	Mini-DUSTY MD-07	-	-	-	AND	-	-	-	90?	-	-
1999-W15	2451373.67	1999 Jul 14 0410:30	Viper 3A	-	MD-FS-15	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W16	2451373.69	1999 Jul 14 0438	Viper 3A	-	MD-CH-16	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W17	2451373.71	1999 Jul 14 0504	Viper 3A	-	MD-FS-17	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W18	2451375.88	1999 Jul 16 0904	Viper 3A	-	MD-FS-18	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W20	2451375.92	1999 Jul 16 1012	Viper 3A	-	MD-FS-20	MIDAS/DROPPS	-	-	-	AND	-	-	-	120?	-	-
1999-W21	2451407.03	1999 Aug 16 1245:00	Viper 3A	-	TR-S-01 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W22	2451407.91	1999 Aug 17 0944:00	Viper 3A	-	TR-S-02 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W23	2451408.93	1999 Aug 18 1023:00	Viper 3A	-	TR-S-03 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1999-W24	2451408.94	1999 Aug 18 1039:00	Viper 3A	-	TR-C-04 Chaff	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W25	2451408.97	1999 Aug 18 1111:25	Viper 3A	-	TR-C-05 Chaff	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W26	2451413.94	1999 Aug 23 1030:00	Viper 3A	-	TR-S-06 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W27	2451416.92	1999 Aug 26 1000:00	Viper 3A	-	TR-S-07 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W28	2451416.93	1999 Aug 26 1017:00	Viper 3A	-	TR-C-08 Chaff	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W29	2451420.92	1999 Aug 30 1000:00	Viper 3A	-	TR-S-09 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W30	2451427.92	1999 Sep 6 1003:00	Viper 3A	-	TR-S-10 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W32	2451430.83	1999 Sep 9 0800:00	Viper 3A	-	TR-S-11 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W34	2451435.92	1999 Sep 14 1000:00	Viper 3A	-	TR-S-12 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W35	2451435.96	1999 Sep 14 1106:00	Viper 3A	-	TR-S-13 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W36	2451437.92	1999 Sep 16 1000:00	Viper 3A	-	TR-S-14 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W37	2451439.92	1999 Sep 18 1000:00	Viper 3A	-	TR-S-15 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W38	2451441.92	1999 Sep 20 1004:00	Viper 3A	-	TR-S-16 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-W39	2451443.92	1999 Sep 22 1003:00	Viper 3A	-	TR-S-17 Sphere	TRAMP-99	-	-	-	AND	-	-	-	75?	-	-
1999-Y03	2451501.24	1999 Nov 18 1745	Viper 3A	-	-	Comet Chaser	-	-	-	RI	-	-	-	90	-	-
2000-W10	2451671.18	2000 May 6 1621	Viper 3A	-	MS-FS-01	MIDAS Sphere	-	-	-	AND	-	-	-	90?	-	-
2000-W11	2451671.20	2000 May 6 1641	Viper 3A	-	MS-FS-02	MIDAS Sphere	-	-	-	AND	-	-	-	95?	-	-
2000-W12	2451679.52	2000 May 15 0032	Viper 3A	-	MS-FS-04	MIDAS Sphere	-	-	-	AND	-	-	-	92?	-	-
2000-W13	2451679.55	2000 May 15 0112	Viper 3A	-	MS-MM-06	Ferd. 117/Mini-MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W02	2452046.07	2001 May 16 1341:00	Viper 3A	?	NASA 12.049UT	-	-	-	-	WI	-	-	-	75?	-	-
2001-W03	2452069.11	2001 Jun 8 1432:00	Viper 3A	-	SO-FS-01	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W04	2452072.55	2001 Jun 12 0110:30	Viper 3A	-	SO-FS-02	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W05	2452074.57	2001 Jun 14 0134:30	Viper 3A	-	SO-FS-03	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W06	2452077.49	2001 Jun 16 2351:00	Viper 3A	-	SO-FS-04	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W07	2452077.52	2001 Jun 17 0036	Viper 3A	-	SO-CH-06	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W08	2452077.54	2001 Jun 17 0059	Viper 3A	-	SO-FS-07	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W09	2452077.55	2001 Jun 17 0119	Viper 3A	-	SO-CH-08	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W10	2452081.57	2001 Jun 21 0144	Viper 3A	-	SO-CH-09	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W11	2452085.38	2001 Jun 24 2104	Viper 3A	-	SO-FS-10	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W12	2452085.41	2001 Jun 24 2151:00	Viper 3A	-	SO-CH-12	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W13	2452085.43	2001 Jun 24 2220:10	Viper 3A	-	SO-FS-13	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-W14	2452085.45	2001 Jun 24 2245:15	Viper 3A	-	SO-CH-14	MIDAS	-	-	-	AND	-	-	-	75?	-	-
2001-Y01	2452106.98	2001 Jul 16 1125	Viper 3A	-	ROFS-01	ROMA	-	-	-	SVAL	LONG	-	-	108	-	-
2001-Y02	2452109.97	2001 Jul 19 1117:20	Viper 3A	-	ROFS-02	ROMA	-	-	-	SVAL	LONG	-	-	105	-	-
2001-Y03	2452113.01	2001 Jul 22 1220:00	Viper 3A	-	ROFS-03	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y04	2452113.04	2001 Jul 22 1255:00	Viper 3A	-	ROCH-04	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y05	2452115.92	2001 Jul 25 1000:00	Viper 3A	-	ROFS-05	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y06	2452118.92	2001 Jul 28 1007:00	Viper 3A	-	ROFS-06	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y07	2452121.88	2001 Jul 31 0900:00	Viper 3A	-	ROFS-07	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y08	2452121.91	2001 Jul 31 0950:00	Viper 3A	-	ROCH-08	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y09	2452124.25	2001 Aug 2 1800:00	Viper 3A	-	ROFS-09	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y10	2452127.90	2001 Aug 6 0938:00	Viper 3A	-	ROFS-10	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y11	2452130.93	2001 Aug 9 1013:00	Viper 3A	-	ROFS-11	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y12	2452133.93	2001 Aug 12 1016:00	Viper 3A	-	ROFS-12	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y13	2452138.98	2001 Aug 17 1136:00	Viper 3A	-	ROFS-13	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y14	2452139.01	2001 Aug 17 1219:00	Viper 3A	-	ROCH-14	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y15	2452141.93	2001 Aug 20 1025:00	Viper 3A	-	ROFS-15	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y16	2452142.33	2001 Aug 20 1948:00	Viper 3A	-	ROFS-16	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y17	2452144.92	2001 Aug 23 1009:00	Viper 3A	-	ROFS-17	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y18	2452148.95	2001 Aug 27 1045:00	Viper 3A	-	ROFS-18	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y19	2452150.41	2001 Aug 28 2148:39	Viper 3A	-	ROFS-19	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y20	2452150.43	2001 Aug 28 2215:00	Viper 3A	-	ROCH-20	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y21	2452150.92	2001 Aug 29 1011:00	Viper 3A	-	ROFS-21	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y22	2452153.94	2001 Sep 1 1035:00	Viper 3A	-	ROFS-22	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y23	2452158.34	2001 Sep 5 2005:00	Viper 3A	-	ROFS-23	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y24	2452158.90	2001 Sep 6 0943:01	Viper 3A	-	ROFS-24	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y25	2452160.93	2001 Sep 8 1024:00	Viper 3A	-	ROFS-25	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y26	2452163.89	2001 Sep 11 0922:00	Viper 3A	-	ROFS-26	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y27	2452163.91	2001 Sep 11 0951:00	Viper 3A	-	ROFS-27	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y28	2452166.89	2001 Sep 14 0916:00	Viper 3A	-	ROFS-28	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y29	2452166.93	2001 Sep 14 1016:00	Viper 3A	-	ROFS-29	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2001-Y30	2452166.95	2001 Sep 14 1044:01	Viper 3A	-	ROCH-30	ROMA	-	-	-	SVAL	LONG	-	-	100?	-	-
2002-W01	2452404.76	2002 May 10 0614:20	Viper 3A	-	NASA 37.12UE	-	-	-	-	WI	-	-	-	75?	-	-
2002-W02	2452410.75	2002 May 16 0600:00	Viper 3A	-	NASA 37.13UE	-	-	-	-	WI	-	-	-	75?	-	-
2002-W03	2452410.79	2002 May 16 0700:00	Viper 3A	-	NASA 37.14UE	-	-	-	-	WI	-	-	-	75?	-	-
2002-W04	2452438.69	2002 Jun 13 0440:00	Viper 3A	-	NASA 12.51UE	-	-	-	-	WI	-	-	-	75?	-	-
2002-W08	2452457.35	2002 Jul 1 2020:00	Viper 3A	-	-	MM-VFS-04	-	-	-	AND	-	-	-	75?	-	-
2002-W09	2452457.39	2002 Jul 1 2120:00	Viper 3A	-	-	MM-VFS-05	-	-	-	AND	-	-	-	75?	-	-
2002-W10	2452457.43	2002 Jul 1 2220:00	Viper 3A	-	-	MM-VFS-06	-	-	-	AND	-	-	-	75?	-	-
2002-W11	2452457.47	2002 Jul 1 2320:00	Viper 3A	-	-	MM-VFS-07	-	-	-	AND	-	-	-	75?	-	-
2002-W12	2452457.51	2002 Jul 2 0020:00	Viper 3A	-	-	MM-VFS-09	-	-	-	AND	-	-	-	75?	-	-
2002-W14	2452457.56	2002 Jul 2 0120:00	Viper 3A	-	-	MM-VFS-11	-	-	-	AND	-	-	-	75?	-	-
2002-W18	2452460.34	2002 Jul 4 2014:00	Viper 3A	-	-	MM-VFS-16	-	-	-	AND	-	-	-	75?	-	-
2002-W20	2452460.40	2002 Jul 4 2130:00	Viper 3A	-	-	MM-VFS-18	-	-	-	AND	-	-	-	75?	-	-
2002-W22	2452460.46	2002 Jul 4 2300:00	Viper 3A	-	-	MM-VFS-20	-	-	-	AND	-	-	-	75?	-	-
2002-W23	2452460.47	2002 Jul 4 2320:00	Viper 3A	-	-	MM-VFS-21	-	-	-	AND	-	-	-	75?	-	-
2002-W24	2452460.50	2002 Jul 5 0005:00	Viper 3A	-	-	MM-VFS-22	-	-	-	AND	-	-	-	75?	-	-
2002-W25	2452460.60	2002 Jul 5 0219:00	Viper 3A	-	-	MM-VFS-26	-	-	-	AND	-	-	-	75?	-	-
2002-W26	2452460.62	2002 Jul 5 0300:00	Viper 3A	-	-	MM-VFS-27	-	-	-	AND	-	-	-	75?	-	-
2002-W30	2452460.78	2002 Jul 5 0645:00	Viper 3A	-	-	MM-VFS-31	-	-	-	AND	-	-	-	75?	-	-
2002-W31	2452507.93	2002 Aug 21 1023:00	Viper 3A	-	-	RO-A-FS-01 Roma-02	-	-	-	AND	-	-	-	75?	-	-
2002-Y01	2452507.95	2002 Aug 21 1049	Viper 3A	-	-	RO-A-FS-02	-	-	-	AND	-	-	-	106	-	-
2002-Y02	2452510.92	2002 Aug 24 1000	Viper 3A	-	-	RO-A-FS-03	-	-	-	AND	-	-	-	108	-	-
2002-W32	2452515.92	2002 Aug 29 1000	Viper 3A	-	-	RO-A-FS-04	-	-	-	AND	-	-	-	75?	-	-
2002-W33	2452521.92	2002 Sep 4 1000	Viper 3A	-	-	RO-A-FS-05	-	-	-	AND	-	-	-	75?	-	-
2002-W34	2452523.92	2002 Sep 6 1000	Viper 3A	-	-	RO-A-FS-06	-	-	-	AND	-	-	-	75?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2002-W35	2452527.92	2002 Sep 10 1000	Viper 3A	-	-	RO-A-FS-07	-	-	-	AND	-	-	-	75?	-	-
2002-W36	2452530.95	2002 Sep 13 1050	Viper 3A	-	-	RO-A-FS-08	-	-	-	AND	-	-	-	75?	-	-
2002-W37	2452531.94	2002 Sep 14 1027	Viper 3A	-	-	RO-A-FS-09	-	-	-	AND	-	-	-	75?	-	-
2002-W38	2452534.92	2002 Sep 17 1000	Viper 3A	-	-	RO-A-FS-10	-	-	-	AND	-	-	-	75?	-	-
2002-W39	2452537.92	2002 Sep 20 1000	Viper 3A	-	-	RO-A-FS-11	-	-	-	AND	-	-	-	75?	-	-
2002-W40	2452537.94	2002 Sep 20 1035:30	Viper 3A	-	-	RO-A-FS-12	-	-	-	AND	-	-	-	75?	-	-
2002-W41	2452539.92	2002 Sep 22 1000	Viper 3A	-	-	RO-A-FS-13	-	-	-	AND	-	-	-	75?	-	-
2002-W42	2452543.92	2002 Sep 26 1000	Viper 3A	-	-	RO-A-FS-14	-	-	-	AND	-	-	-	75?	-	-
2002-W43	2452546.92	2002 Sep 29 1000	Viper 3A	-	-	RO-A-FS-15	-	-	-	AND	-	-	-	75?	-	-
2002-W44	2452546.93	2002 Sep 29 1019	Viper 3A	-	-	RO-A-FS-16	-	-	-	AND	-	-	-	75?	-	-
2002-W45	2452548.46	2002 Sep 30 2305	Viper 3A	-	-	RO-A-FS-17	-	-	-	AND	-	-	-	75?	-	-
2002-W46	2452552.42	2002 Oct 4 2200	Viper 3A	-	-	RO-A-FS-18	-	-	-	AND	-	-	-	75?	-	-
2002-W47	2452554.92	2002 Oct 7 1000	Viper 3A	-	-	RO-A-FS-19	-	-	-	AND	-	-	-	75?	-	-
2002-W48	2452554.93	2002 Oct 7 1025	Viper 3A	-	-	RO-A-FS-20	-	-	-	AND	-	-	-	75?	-	-
2002-W49	2452554.95	2002 Oct 7 1048	Viper 3A	-	-	RO-A-CH-21	-	-	-	AND	-	-	-	75?	-	-
2002-W50	2452557.92	2002 Oct 10 1000	Viper 3A	-	-	RO-A-FS-22	-	-	-	AND	-	-	-	75?	-	-
2002-W51	2452557.94	2002 Oct 10 1029	Viper 3A	-	-	RO-A-FS-23	-	-	-	AND	-	-	-	75?	-	-
2004-S79	2453268.45	2004 Sep 19 2250	Viper 3A	?	-	Sphere	-	-	-	KMR	-	-	-	85?	-	-
2004-S80	2453268.50	2004 Sep 20 0001	Viper 3A	?	-	Sphere	-	-	-	KMR	-	-	-	85?	-	-
2004-S81	2453268.58	2004 Sep 20 0200	Viper 3A	?	-	Sphere	-	-	-	KMR	-	-	-	85?	-	-
2005-Y04	2453388.89	2005 Jan 18 0918	Viper 3A	-	-	ROMA 2005 Chaff Test	-	-	-	AND	-	-	-	90?	-	-
2005-Y05	2453388.98	2005 Jan 18 1136:30	Viper 3A	-	Mini-MIDAS RPMM-01	ROMA 2005 RWMM01	-	-	-	AND	-	-	-	78	-	-
2005-Y06	2453389.00	2005 Jan 18 1206:00	Viper 3A	-	Mini-MIDAS RPMM-02	ROMA 2005 RWMM02	-	-	-	AND	-	-	-	87	-	-
2005-Y07	2453389.02	2005 Jan 18 1236:00	Viper 3A	-	ROMA/Winter (RW)	ROMA 2005 RWFS03	-	-	-	AND	-	-	-	90?	-	-
2005-Y08	2453389.05	2005 Jan 18 1315:00	Viper 3A	-	-	ROMA 2005 RWFS04	-	-	-	AND	-	-	-	90?	-	-
2005-Y10	2453389.11	2005 Jan 18 1442	Viper 3A	-	-	ROMA 2005 RWFS06	-	-	-	AND	-	-	-	90?	-	-
2005-Y11	2453389.15	2005 Jan 18 1531	Viper 3A	-	-	ROMA 2005 RWFS07	-	-	-	AND	-	-	-	90?	-	-
2005-Y13	2453389.20	2005 Jan 18 1654	Viper 3A	-	-	ROMA 2005 RWFS09	-	-	-	AND	-	-	-	90?	-	-
2005-Y14	2453389.23	2005 Jan 18 1724	Viper 3A	-	-	ROMA 2005 RWFS10	-	-	-	AND	-	-	-	90?	-	-
2005-Y16	2453389.27	2005 Jan 18 1835	Viper 3A	-	-	ROMA 2005 RWFS12	-	-	-	AND	-	-	-	90?	-	-
2005-Y17	2453390.87	2005 Jan 20 0846	Viper 3A	-	-	ROMA 2005 RWFS13	-	-	-	AND	-	-	-	90?	-	-
2005-Y19	2453390.96	2005 Jan 20 1100	Viper 3A	-	-	ROMA 2005 RWFS15	-	-	-	AND	-	-	-	90?	-	-
2005-Y20	2453390.98	2005 Jan 20 1130	Viper 3A	-	-	ROMA 2005 RWFS16	-	-	-	AND	-	-	-	90?	-	-
2005-Y21	2453391.01	2005 Jan 20 1219	Viper 3A	-	-	ROMA 2005 RWFS17	-	-	-	AND	-	-	-	90?	-	-
2005-Y22	2453392.05	2005 Jan 21 1306	Viper 3A	-	-	ROMA 2005 RWFS18	-	-	-	AND	-	-	-	90?	-	-
2005-Y23	2453395.56	2005 Jan 25 0130	Viper 3A	-	-	ROMA 2005 RWFS19	-	-	-	AND	-	-	-	90?	-	-
2005-Y24	2453395.65	2005 Jan 25 0330	Viper 3A	-	-	ROMA 2005 RWFS20	-	-	-	AND	-	-	-	90?	-	-
2005-Y25	2453395.73	2005 Jan 25 0530	Viper 3A	-	-	ROMA 2005 RWFS21	-	-	-	AND	-	-	-	90?	-	-
2005-Y26	2453395.81	2005 Jan 25 0730	Viper 3A	-	-	ROMA 2005 RWFS22	-	-	-	AND	-	-	-	90?	-	-
2009-S41	2455060.99	2009 Aug 17 1152	Viper 3A	-	-	IVRE Support 1	-	-	-	WI	-	-	-	90?	-	-
2009-S74	2455060.50	2009 Aug 17	Viper 3A	-	-	IVRE Support 2	-	-	-	WI	-	-	-	90?	-	-
2012-S91	2456131.50	2012 Jul 23	Viper 3A	-	-	IVRE Support 1	-	-	-	WI	-	-	-	90?	-	-
2012-S92	2456131.50	2012 Jul 23	Viper 3A	-	-	IVRE Support 2	-	-	-	WI	-	-	-	90?	-	-
2014-A50	2456919.50	2014 Sep 19	DART	-	TV-01	TV-01	-	-	-	ASKTH	LP1	-	-	4?	-	-
2016-A108	2457528.50	2016 May 20	DART	-	TV-02	TV-02	-	-	-	ASKTH	LP1	-	-	4?	-	-
2020-S33	2459111.53	2020 Sep 19 0039:47	DART	-	TED-01	DEWC SP1 1	-	-	-	KOON	-	-	-	85	-	-
2020-S34	2459111.60	2020 Sep 19 0219:47	DART	-	TED-02?	DEWC SP1 2	-	-	-	KOON	-	-	-	85?	-	-
2021-A26	2459490.50	2021 Oct 3	DART	-	-	PMWE	-	-	-	AND	-	-	-	20?	-	-
2022-A21	2459821.50	2022 Aug 30	DART	-	TED-3/VE2NOM	Tech test	-	-	-	KOON	-	-	-	0?	-	-
2024-M02	2460347.50	2024 Feb 7	DART	-	-	KTH PRIME	-	-	-	ESR	LC3	-	-	60?	-	-
2025-M02	2460773.50	2025 Apr 8	DART	-	-	Dart	-	-	-	ESR	LC3	-	-	50?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1972-S459	2441587.50	1972 Sep 27	Viper 3A	-	Stable Viper 1-4	0.000	AFCRL	SS	-	SDCO/Bollerman	Test	AFCRL-TR-73-0412	-	-
1972-S460	2441587.50	1972 Sep 27	Viper 3A	-	Stable Viper 1-5	0.000	AFCRL	SS	-	SDCO/Bollerman	Test	AFCRL-TR-73-0412	-	-
1972-S461	2441592.50	1972 Oct 2	Viper 3A	-	Stable Viper 1-6	0.000	AFCRL	SS	-	SDCO/Bollerman	Test	AFCRL-TR-73-0412	-	-
1972-A130	2441592.50	1972 Oct 2	Viper 3A	-	Stable Viper 1-7	0.000	AFCRL	SS	-	SDCO/Bollerman	Test	AFCRL-TR-73-0412	-	-
1983-W336	2445671.25	1983 Dec 2 1801:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y299	2445674.33	1983 Dec 5 2000:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	AND	-
1983-Y300	2445676.24	1983 Dec 7 1744:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y304	2445677.33	1983 Dec 8 2000:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y308	2445681.33	1983 Dec 12 2000:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y313	2445684.98	1983 Dec 16 1129:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y314	2445685.01	1983 Dec 16 1212:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y317	2445688.32	1983 Dec 19 1946:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y318	2445688.34	1983 Dec 19 2015:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y320	2445697.96	1983 Dec 29 1100:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y321	2445697.98	1983 Dec 29 1134:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1983-Y322	2445700.12	1983 Dec 31 1500:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y01	2445702.10	1984 Jan 2 1430:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y03	2445705.33	1984 Jan 5 2000:00	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	AND	-
1984-Y05	2445706.39	1984 Jan 6 2124	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y07	2445708.33	1984 Jan 8 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y09	2445712.21	1984 Jan 12 1700	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-W14	2445712.24	1984 Jan 12 1749	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y12	2445713.29	1984 Jan 13 1857	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y13	2445713.31	1984 Jan 13 1931	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y15	2445713.37	1984 Jan 13 2050	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y16	2445713.39	1984 Jan 13 2122	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y17	2445713.42	1984 Jan 13 2212	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y18	2445713.45	1984 Jan 13 2244	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y19	2445715.33	1984 Jan 15 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y21	2445717.33	1984 Jan 17 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y22	2445720.35	1984 Jan 20 2018	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y23	2445720.92	1984 Jan 21 1000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y24	2445720.93	1984 Jan 21 1020	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y25	2445720.96	1984 Jan 21 1107	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y27	2445721.01	1984 Jan 21 1212	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y28	2445721.03	1984 Jan 21 1246	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y31	2445721.10	1984 Jan 21 1424	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y32	2445724.27	1984 Jan 24 1830	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y33	2445724.29	1984 Jan 24 1853	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y34	2445725.17	1984 Jan 25 1609	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y35	2445725.26	1984 Jan 25 1813	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y36	2445728.21	1984 Jan 28 1701	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y39	2445731.27	1984 Jan 31 1823	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y41	2445731.34	1984 Jan 31 2003	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y46	2445736.33	1984 Feb 5 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y48	2445738.33	1984 Feb 7 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y51	2445739.63	1984 Feb 9 0304	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y54	2445740.66	1984 Feb 10 0344	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y56	2445740.73	1984 Feb 10 0529	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y57	2445741.33	1984 Feb 10 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y60	2445743.33	1984 Feb 12 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y61	2445745.33	1984 Feb 14 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y62	2445746.56	1984 Feb 16 0120	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y63	2445746.58	1984 Feb 16 0158	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y64	2445747.33	1984 Feb 16 2000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y65	2445748.51	1984 Feb 18 0021	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y68	2445748.63	1984 Feb 18 0314	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y70	2445748.69	1984 Feb 18 0440	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y71	2445749.92	1984 Feb 19 1000	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y72	2445749.97	1984 Feb 19 1122	Viper 3A	-	MAP/WINE	0.000	DFVLR	SS	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y73	2445750.02	1984 Feb 19 1225:00	Viper 3A	-	M-F 057	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y74	2445751.33	1984 Feb 20 2000:00	Viper 3A	-	M-F 058	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-Y76	2445753.33	1984 Feb 22 2000:00	Viper 3A	-	M-F 059	0.000	DFVLR	SU	-	BONN/von Zahn	Aeron	WDCRF	-	-
1984-M77	2445754.00	1984 Feb 23 1200	Viper-Dart	-	-	0.000	WFC	SS	-	GSFC/Maynard	Ionos/Aeron	WIPR84-1	-	-
1987-A29	2446930.17	1987 May 14 1600	Viper 3A	?	MISTY PICTURE 1-20	0.000	DNA	AS	-	DNA/	Meteo	AD-A283521	-	-
1987-Y399	2446957.07	1987 Jun 10 1340	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y400	2446958.96	1987 Jun 12 1100	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y401	2446961.98	1987 Jun 15 1124	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y402	2446963.96	1987 Jun 17 1103	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y403	2446965.96	1987 Jun 19 1105	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y404	2446968.98	1987 Jun 22 1129	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y405	2446970.96	1987 Jun 24 1100	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y408	2446971.08	1987 Jun 24 1358	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y409	2446972.96	1987 Jun 26 1100	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y410	2446973.09	1987 Jun 26 1412	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	MAPH26	-	-
1987-Y197	2446975.96	1987 Jun 29 1106	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y200	2446978.38	1987 Jul 01 2108:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y203	2446978.46	1987 Jul 01 2305:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y206	2446979.96	1987 Jul 03 1100:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y208	2446983.03	1987 Jul 06 1240:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y210	2446985.04	1987 Jul 08 1300:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y213	2446987.01	1987 Jul 10 1212:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y75	2446990.33	1987 Jul 13 1955:00	Viper 3A	-	S-F18	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y217	2446990.84	1987 Jul 14 0811:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y218	2446990.86	1987 Jul 14 0832:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y223	2446990.96	1987 Jul 14 1102:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1987-Y230	2446992.03	1987 Jul 15 1246:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y235	2446992.38	1987 Jul 15 2101:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y237	2446992.40	1987 Jul 15 2143:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y241	2446993.96	1987 Jul 17 1100:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y243	2446995.96	1987 Jul 19 1107:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y244	2446995.97	1987 Jul 19 1121:00	Viper 3A	-	FALLING SPHERE	0.000	DLR	SS	-	BONN/VonZahn	Aeron	WDCRF	-	-
1987-Y302	2447083.95	1987 Oct 15 1047:00	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/AFGL/vonZahn,Philb.	Aeron	WDCRF	-	-
1987-Y306	2447084.05	1987 Oct 15 1308:00	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	WDCRF	-	-
1987-Y413	2447085.98	1987 Oct 17 1138:00	Viper 3A	-	Chaff Test 1	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y311	2447090.39	1987 Oct 21 2128:00	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/AFGL/vonZahn,Philb.	Aeron	WDCRF	-	-
1987-Y312	2447090.41	1987 Oct 21 2146:00	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y316	2447090.47	1987 Oct 21 2321:00	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,VonZahn	Aeron	JATP52,815	-	-
1987-Y343	2447111.50	1987 Nov 11 2358:00	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/AFGL/vonZahn,Philb.	Aeron	WDCRF	-	-
1987-Y344	2447111.51	1987 Nov 12 0016:00	Viper 3A	-	Sphere	0.000	DLR	SS	-	BONN/AFGL/vonZahn,Philb.	Aeron	WDCRF	-	-
1988-Y291	2447337.35	1988 Jun 24 2028	Viper 3A	-	Chaff NC01 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	JATP52,995	-
1988-Y292	2447337.40	1988 Jun 24 2135	Viper 3A	-	Chaff NC02 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y293	2447337.42	1988 Jun 24 2210	Viper 3A	-	Chaff NC03 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y294	2447337.43	1988 Jun 24 2222	Viper 3A	-	Chaff NC04 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y295	2447337.46	1988 Jun 24 2256	Viper 3A	-	Chaff NC05 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y296	2447342.40	1988 Jun 29 2143	Viper 3A	-	Chaff NC06 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y297	2447347.44	1988 Jul 4 2227	Viper 3A	-	Chaff NC07 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y298	2447355.43	1988 Jul 12 2220	Viper 3A	-	Chaff NC08 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y299	2447355.47	1988 Jul 12 2313	Viper 3A	-	Chaff NC09 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1988-Y300	2447355.50	1988 Jul 13 0003	Viper 3A	-	Chaff NC10 EL Na	0.000	DLR	SS	-	BONN/Lubken	Aeron	JASTP63,1831	-	-
1990-Y22	2447904.38	1990 Jan 12 2100	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y23	2447904.41	1990 Jan 12 2148:05	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y24	2447905.40	1990 Jan 13 2134:00	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y26	2447907.03	1990 Jan 15 1240	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y29	2447907.30	1990 Jan 15 1915	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y30	2447907.33	1990 Jan 15 2000	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y31	2447907.34	1990 Jan 15 2005	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y42	2447909.33	1990 Jan 17 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y43	2447909.36	1990 Jan 17 2042:35	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y44	2447910.32	1990 Jan 18 1935	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y45	2447910.34	1990 Jan 18 2004	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y54	2447911.33	1990 Jan 19 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y55	2447913.91	1990 Jan 22 0955:00	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y57	2447913.97	1990 Jan 22 1121:00	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y58	2447913.99	1990 Jan 22 1145:00	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y60	2447914.30	1990 Jan 22 1915:00	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y74	2447916.33	1990 Jan 24 2001:30	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y80	2447920.33	1990 Jan 28 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y81	2447920.37	1990 Jan 28 2050:58	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y97	2447923.33	1990 Jan 31 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y98	2447923.35	1990 Jan 31 2024	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y100	2447924.30	1990 Feb 1 1917	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y101	2447924.32	1990 Feb 1 1947	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y109	2447928.30	1990 Feb 5 1905	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y110	2447928.32	1990 Feb 5 1945	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y120	2447930.33	1990 Feb 7 1956:30	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y121	2447930.35	1990 Feb 7 2022	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y124	2447931.35	1990 Feb 8 2026	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y125	2447931.37	1990 Feb 8 2051	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y130	2447933.38	1990 Feb 10 2103	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y328	2447938.00	1990 Feb 15 1200	Viper 3A	-	VP-3	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ90	-	-
1990-Y142	2447937.33	1990 Feb 14 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-A11	2447937.35	1990 Feb 14 2026	Viper 3A	-	Chaff	0.000	DLR	SU	-	MPAE/	Aeron	ESA-PAC92-AnnexI	-	-
1990-S189	2447937.35	1990 Feb 14 2026	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/	Aeron	ESA-PAC92-AnnexI	-	-
1990-Y327	2447938.00	1990 Feb 15 1200	Viper 3A	-	VP-4	0.000	ISAS	SS	-	ISAS/	Aeron	SRJ90	-	-
1990-Y147	2447940.00	1990 Feb 17 1200	Viper 3A	-	Sphere VP-5	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y149	2447940.35	1990 Feb 17 2024:48	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y156	2447942.62	1990 Feb 20 0300	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y157	2447942.64	1990 Feb 20 0325	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y159	2447942.66	1990 Feb 20 0350	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y160	2447942.72	1990 Feb 20 0514	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y161	2447942.74	1990 Feb 20 0539	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y162	2447942.75	1990 Feb 20 0604	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	ESA-SP590-127	-
1990-Y163	2447942.77	1990 Feb 20 0629	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y164	2447942.79	1990 Feb 20 0654	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y169	2447944.34	1990 Feb 21 2005:42	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y170	2447945.30	1990 Feb 22 1906	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y171	2447945.31	1990 Feb 22 1930	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y176	2447947.00	1990 Feb 24 1200	Viper 3A	-	Sphere VP-7	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-Y177	2447947.37	1990 Feb 24 2048:55	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y178	2447948.27	1990 Feb 25 1825	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y179	2447948.29	1990 Feb 25 1904	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y180	2447948.32	1990 Feb 25 1940	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y181	2447948.34	1990 Feb 25 2004	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y183	2447949.00	1990 Feb 26 1200	Viper 3A	-	Sphere VP-8	0.000	ISAS	SS	-	ISAS/	Aeron	ESA-SP317-381	-	-
1990-A12	2447951.37	1990 Feb 28 2046	Viper 3A	-	Sphere	0.000	GSFC	SU	-	WUPP/WFF/	Aeron	ESA-PAC92-AnnexI	-	-
1990-Y191	2447951.38	1990 Feb 28 2109	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y192	2447952.31	1990 Mar 1 1930	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y193	2447952.33	1990 Mar 1 2000	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y198	2447953.31	1990 Mar 2 1931	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y202	2447956.59	1990 Mar 6 0203	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y203	2447956.60	1990 Mar 6 0219	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1990-Y204	2447956.63	1990 Mar 6 0301	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y205	2447956.65	1990 Mar 6 0331	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y207	2447956.71	1990 Mar 6 0503:30	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y208	2447956.73	1990 Mar 6 0538	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y209	2447956.75	1990 Mar 6 0558:30	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y210	2447956.76	1990 Mar 6 0620	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y211	2447956.78	1990 Mar 6 0640	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y212	2447956.79	1990 Mar 6 0700	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y215	2447958.31	1990 Mar 7 1932	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y216	2447958.33	1990 Mar 7 1959	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y217	2447958.35	1990 Mar 7 2030	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y218	2447958.38	1990 Mar 7 2114	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y220	2447959.29	1990 Mar 8 1900	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y222	2447959.31	1990 Mar 8 1930	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y224	2447959.40	1990 Mar 8 2141	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y225	2447959.42	1990 Mar 8 2210	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y226	2447959.44	1990 Mar 8 2237	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y227	2447959.47	1990 Mar 8 2314	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y228	2447959.49	1990 Mar 8 2345	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y229	2447959.53	1990 Mar 9 0045	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y230	2447959.55	1990 Mar 9 0105	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y232	2447960.35	1990 Mar 9 2019	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y233	2447962.31	1990 Mar 11 1921	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y234	2447962.32	1990 Mar 11 1941	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-A14	2447962.34	1990 Mar 11 2010	Viper 3A	-	Sphere	0.000	GSFC	SF	U	WUPP/WFF/Bittner	Aeron	ESA-PAC92-AnnexI	-	-
1990-Y235	2447962.35	1990 Mar 11 2024	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y236	2447962.38	1990 Mar 11 2103	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y237	2447962.40	1990 Mar 11 2132	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WUPP/WFF/Bittner	Aeron	ESA-SP317-381	-	-
1990-Y238	2447962.41	1990 Mar 11 2152	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y239	2447962.43	1990 Mar 11 2224	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/BONN/Widdel,Lubken	Aeron	ESA-SP317-381	-	-
1990-Y245	2447963.61	1990 Mar 13 0245	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y246	2447963.63	1990 Mar 13 0310	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y247	2447963.65	1990 Mar 13 0340	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y249	2447963.67	1990 Mar 13 0404	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y250	2447963.69	1990 Mar 13 0440	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y251	2447963.71	1990 Mar 13 0500	Viper 3A	-	Chaff	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ESA-SP317-381	-	-
1990-Y252	2447963.72	1990 Mar 13 0520	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y255	2447966.31	1990 Mar 15 1921	Viper 3A	-	Sphere	0.000	DGA	SS	-	CEL/WFF/Mourier,Schmid.	Aeron	ESA-SP317-381	-	-
1990-Y332	2448099.48	1990 Jul 26 2325	Viper 3A	-	Robin Sphere	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1990-Y334	2448106.46	1990 Aug 2 2301	Viper 3A	-	Robin Sphere	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-Y48	2448356.26	1991 Apr 9 1818	Viper 3A	-	Robin Sphere	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-Y49	2448356.31	1991 Apr 9 1920	Viper 3A	-	Robin Sphere	0.000	DLR	SS	-	WUPP/Grossmann	Aeron	ssc.se	-	-
1991-Y21	2448448.50	1991 Jul 11	Viper 3A	-	-	0.000	SPFL	SS	-	FIT/UNAM/	Aeron/Eclipse	SN910715-2	-	-
1991-Y44	2448469.54	1991 Aug 1 0103:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ssc.se	-
1991-Y23	2448469.58	1991 Aug 1 0154:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y24	2448469.60	1991 Aug 1 0224:00	Viper 3A	-	Chaff NLC-91	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y25	2448469.61	1991 Aug 1 0239:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y45	2448474.48	1991 Aug 5 2332:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	-	-
1991-Y46	2448478.44	1991 Aug 9 2239:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SF	U	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y28	2448478.45	1991 Aug 9 2253:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y30	2448478.50	1991 Aug 10 0006:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y31	2448478.52	1991 Aug 10 0024:00	Viper 3A	-	Chaff NLC-91	0.000	DLR	SS	-	MPAE/Widdel	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-Y47	2448478.57	1991 Aug 10 0142:00	Viper 3A	-	Sphere NLC-91	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	ASR14,9,113	ESA-SP355-39	-
1991-S197	2448517.50	1991 Sep 18 0007:00	Viper 3A	-	Chaff	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S198	2448517.53	1991 Sep 18 0048:13	Viper 3A	-	Chaff	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S199	2448517.55	1991 Sep 18 0106:00	Viper 3A	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S200	2448517.56	1991 Sep 18 0128:30	Viper 3A	-	Chaff	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S201	2448520.38	1991 Sep 20 2108:00	Viper 3A	-	Chaff	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S202	2448520.40	1991 Sep 20 2130:40	Viper 3A	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S203	2448520.46	1991 Sep 20 2300:00	Viper 3A	-	Chaff	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S204	2448520.47	1991 Sep 20 2323:30	Viper 3A	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S206	2448530.38	1991 Sep 30 2108:11	Viper 3A	-	Chaff	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-A07	2448530.39	1991 Sep 30 2119:46	Viper 3A	-	Sphere	0.000	DLR	SF	U	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S207	2448530.40	1991 Sep 30 2130:09	Viper 3A	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S208	2448533.45	1991 Oct 3 2242:00	Viper 3A	-	Chaff	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S209	2448533.46	1991 Oct 3 2302:30	Viper 3A	-	Sphere	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S210	2448533.47	1991 Oct 3 2316:30	Viper 3A	-	Sphere	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S211	2448533.52	1991 Oct 4 0023:30	Viper 3A	-	Chaff	0.000	DLR	SS	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S212	2448533.53	1991 Oct 4 0044:00	Viper 3A	-	Sphere	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1991-S213	2448533.54	1991 Oct 4 0102:30	Viper 3A	-	Sphere	0.000	DLR	SU	-	IAP/	Aeron	ESA-PAC92-AnnexI	-	-
1992-W46	2448735.50	1992 Apr 23	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1992-W54	2448776.50	1992 Jun 3	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1992-W77	2448828.04	1992 Jul 24 1301:20	Viper 3A	?	-	0.000	GSFC	SS	-	USU/Ulwick	Aeron	www.pfrr.alaska.edu	-	-
1992-W78	2448829.03	1992 Jul 25 1246:00	Viper 3A	?	-	0.000	GSFC	SS	-	USU/Ulwick	Aeron	www.pfrr.alaska.edu	-	-
1993-Y42	2449196.74	1993 Jul 28 0543	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/	Aeron	ssc.se	-	-
1993-Y43	2449198.76	1993 Jul 30 0619	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/	Aeron	ssc.se	-	-
1993-Y38	2449201.53	1993 Aug 2 0037	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	JGR103,23399	-	-
1993-Y39	2449201.56	1993 Aug 2 0124	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	JGR103,23399	-	-
1993-Y40	2449201.64	1993 Aug 2 0324	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	JGR103,23399	-	-
1993-Y41	2449201.75	1993 Aug 2 0554	Viper 3A	-	Sphere NLC-93	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	JGR103,23399	-	-
1994-Y03	2449581.10	1994 Aug 16 1422	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y19	2449581.50	1994 Aug 17?	Viper 3A	-	Sphere	0.000	GSFC	SF	U	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y04	2449582.15	1994 Aug 17 1540	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y05	2449583.09	1994 Aug 18 1408	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y06	2449584.10	1994 Aug 19 1424	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y07	2449584.33	1994 Aug 19 2000	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1994-Y20	2449584.50	1994 Aug 20?	Viper 3A	-	Sphere	0.000	GSFC	SF	U	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y08	2449584.66	1994 Aug 20 0356	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y09	2449584.83	1994 Aug 20 0800	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y10	2449584.86	1994 Aug 20 0835	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y11	2449585.11	1994 Aug 20 1432	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y12	2449586.11	1994 Aug 21 1439	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y21	2449586.50	1994 Aug 22?	Viper 3A	-	Sphere	0.000	GSFC	SF	U	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y13	2449587.19	1994 Aug 22 1627	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y14	2449588.07	1994 Aug 23 1346	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y15	2449589.08	1994 Aug 24 1352	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y16	2449589.33	1994 Aug 24 2002	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y22	2449589.50	1994 Aug 25?	Viper 3A	-	Sphere	0.000	GSFC	SF	U	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y17	2449589.61	1994 Aug 25 0244	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1994-Y18	2449589.89	1994 Aug 25 0926	Viper 3A	-	Sphere	0.000	GSFC	SS	-	GSFC/UCO/Fritts,Goldbrg	Aeron	JGR102,26179	-	-
1995-W04	2449796.50	1995 Mar 20	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1995-W05	2449818.50	1995 Apr 11	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1995-W06	2449839.50	1995 May 2	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1995-W07	2449868.50	1995 May 31	Viper 3A	?	Aerosole	0.000	DLR	SS	-	DLR/	Aeron	Moraba	-	-
1996-Y03	2450121.50	1996 Feb 8	Viper 3A	?	Wind	0.000	ISAS	SS	-	ISAS/	Aeron	www.isas.ac.jp	-	-
1996-Y01	2450244.50	1996 Jun 10	Viper 3A	-	NASA 12.48WT	0.000	GSFC	SF	U	WFF/?	Aeron	www.univ-perp.fr	-	-
1996-A10	2450291.50	1996 Jul 27	Viper 3A	-	-	0.000	ARR	SF	U	TROM/	Aeron	www.univ-perp.fr	-	-
1996-A11	2450294.50	1996 Jul 30	Viper 3A	-	-	0.000	ARR	SF	U	TROM/	Aeron	www.univ-perp.fr	-	-
1996-Y04	2450400.50	1996 Nov 13	Viper 3A	-	-	0.000	ARR	SS	-	TROM/	Aeron	www.univ-perp.fr	-	-
1997-Y01	2450463.00	1997 Jan 14 1200	Viper 3A	-	-	0.000	ISAS	SS	-	ISAS/CRLI/	Aeron	www.isas.ac.jp	-	-
1997-Y02	2450463.05	1997 Jan 14 1315	Viper 3A	-	-	0.000	ISAS	SS	-	ISAS/CRLI/	Aeron	www.isas.ac.jp	-	-
1997-Y37	2450590.50	1997 May 22	Viper 3A	-	-	0.000	ARR	SS	-	TROM/	Aeron	www.univ-perp.fr	-	-
1997-W31	2450644.50	1997 Jul 15	Viper 3A	-	-	0.000	DLR	SS	-	BONN/Lubken	Aeron	Moraba	-	-
1997-W37	2450665.48	1997 Aug 4 2328	Viper 3A	-	Falling Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-W46	2450668.46	1997 Aug 7 2302	Viper 3A	-	Falling Sphere 6	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-Y12	2450671.07	1997 Aug 10 1336	Viper 3A	-	Falling Sphere	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W52	2450671.49	1997 Aug 10 2351	Viper 3A	-	Falling Sphere 7	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-W53	2450671.51	1997 Aug 11 0016	Viper 3A	-	Chaff 3	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-Y16	2450672.07	1997 Aug 11 1343	Viper 3A	-	Falling Sphere	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y19	2450673.01	1997 Aug 12 1215	Viper 3A	-	Falling Sphere	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y27	2450675.02	1997 Aug 14 1227	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W58	2450675.33	1997 Aug 14 2000	Viper 3A	-	Sphere 8	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-W59	2450675.35	1997 Aug 14 2022	Viper 3A	-	Chaff 4	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.op.dlr.de	-	-
1997-Y28	2450675.41	1997 Aug 14 2153	Viper 3A	-	Sphere	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-Y29	2450675.96	1997 Aug 15 1058	Viper 3A	-	-	0.000	GSFC	SS	-	WFF/Schmidlin	Aeron	crista.uni-wup	-	-
1997-W67	2450699.50	1997 Sep 8	Viper 3A	-	-	0.000	DLR	SS	-	BONN/Lubken?	Aeron	Moraba	-	-
1997-Y36	2450773.32	1997 Nov 20 1934:00	Viper 3A	-	F-111 ISBJORN-2	0.000	NDRE?	SS	-	TROM/	Aeron	AND-WWW	-	-
1998-Y01	2450818.30	1998 Jan 4 1910	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y02	2450819.42	1998 Jan 5 2200	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y03	2450822.26	1998 Jan 8 1815	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y04	2450822.39	1998 Jan 8 2115	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y05	2450824.12	1998 Jan 10 1500	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y06	2450828.24	1998 Jan 14 1740	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y07	2450830.19	1998 Jan 16 1635	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y08	2450833.21	1998 Jan 19 1700	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y09	2450835.05	1998 Jan 21 1305	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y11	2450837.22	1998 Jan 23 1712	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-A04	2450838.71	1998 Jan 25 0500	Viper 3A	-	-	0.000	ISAS	SF	U	ISAS/	Aeron	www.isas.ac.jp	-	-
1998-A05	2450838.79	1998 Jan 25 0700	Viper 3A	-	-	0.000	ISAS	SF	U	ISAS/	Aeron	www.isas.ac.jp	-	-
1998-Y12	2450840.21	1998 Jan 26 1703	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y13	2450842.21	1998 Jan 28 1705	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y14	2450844.21	1998 Jan 30 1700	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y15	2450846.26	1998 Feb 1 1815	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y16	2450849.27	1998 Feb 4 1830	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y17	2450851.22	1998 Feb 6 1718	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y18	2450852.17	1998 Feb 7 1610	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y19	2450854.26	1998 Feb 9 1810	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y20	2450856.25	1998 Feb 11 1800	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y21	2450858.21	1998 Feb 13 1700	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y22	2450862.07	1998 Feb 17 1334	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y23	2450862.20	1998 Feb 17 1647	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y24	2450864.21	1998 Feb 19 1700	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y25	2450868.34	1998 Feb 23 2015	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y26	2450870.17	1998 Feb 25 1605	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1998-Y27	2450872.38	1998 Feb 27 2100	Viper 3A	?	-	0.000	DLR	SS	-	BONN/BAS/Lubken	Aeron	GRL26,3581	-	-
1999-W05	2451364.50	1999 Jul 5 0004	Viper 3A	-	MD-FS-02	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W06	2451365.47	1999 Jul 5 2313	Viper 3A	-	MD-FS-03	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W07	2451365.53	1999 Jul 6 0046	Viper 3A	-	MD-MD-06	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W08	2451365.55	1999 Jul 6 0111	Viper 3A	-	MD-MM-07	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W09	2451365.56	1999 Jul 6 0128	Viper 3A	-	MD-FS-08	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W10	2451365.58	1999 Jul 6 0149	Viper 3A	-	MD-FS-09	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W11	2451365.59	1999 Jul 6 0209:30	Viper 3A	-	MD-FS-10	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W13	2451373.60	1999 Jul 14 0226	Viper 3A	-	MD-FS-12	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W14	2451373.66	1999 Jul 14 0351	Viper 3A	-	MD-MD-14	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W15	2451373.67	1999 Jul 14 0410:30	Viper 3A	-	MD-FS-15	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W16	2451373.69	1999 Jul 14 0438	Viper 3A	-	MD-CH-16	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W17	2451373.71	1999 Jul 14 0504	Viper 3A	-	MD-FS-17	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W18	2451375.88	1999 Jul 16 0904	Viper 3A	-	MD-FS-18	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W20	2451375.92	1999 Jul 16 1012	Viper 3A	-	MD-FS-20	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
1999-W21	2451407.03	1999 Aug 16 1245:00	Viper 3A	-	TR-S-01 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W22	2451407.91	1999 Aug 17 0944:00	Viper 3A	-	TR-S-02 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W23	2451408.93	1999 Aug 18 1023:00	Viper 3A	-	TR-S-03 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1999-W24	2451408.94	1999 Aug 18 1039:00	Viper 3A	-	TR-C-04 Chaff	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W25	2451408.97	1999 Aug 18 1111:25	Viper 3A	-	TR-C-05 Chaff	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W26	2451413.94	1999 Aug 23 1030:00	Viper 3A	-	TR-S-06 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W27	2451416.92	1999 Aug 26 1000:00	Viper 3A	-	TR-S-07 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W28	2451416.93	1999 Aug 26 1017:00	Viper 3A	-	TR-C-08 Chaff	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W29	2451420.92	1999 Aug 30 1000:00	Viper 3A	-	TR-S-09 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W30	2451427.92	1999 Sep 6 1003:00	Viper 3A	-	TR-S-10 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W32	2451430.83	1999 Sep 9 0800:00	Viper 3A	-	TR-S-11 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W34	2451435.92	1999 Sep 14 1000:00	Viper 3A	-	TR-S-12 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W35	2451435.96	1999 Sep 14 1106:00	Viper 3A	-	TR-S-13 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W36	2451437.92	1999 Sep 16 1000:00	Viper 3A	-	TR-S-14 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W37	2451439.92	1999 Sep 18 1000:00	Viper 3A	-	TR-S-15 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W38	2451441.92	1999 Sep 20 1004:00	Viper 3A	-	TR-S-16 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-W39	2451443.92	1999 Sep 22 1003:00	Viper 3A	-	TR-S-17 Sphere	0.000	DLR	SS	-	BONN/Lubken	Aeron	www.rocketrange.no	-	-
1999-Y03	2451501.24	1999 Nov 18 1745	Viper 3A	-	-	0.000	SPFL	SS	-	FLASP/RIU/	Aeron/Meteorites	Wire	-	-
2000-W10	2451671.18	2000 May 6 1621	Viper 3A	-	MS-FS-01	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2000-W11	2451671.20	2000 May 6 1641	Viper 3A	-	MS-FS-02	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2000-W12	2451679.52	2000 May 15 0032	Viper 3A	-	MS-FS-04	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2000-W13	2451679.55	2000 May 15 0112	Viper 3A	-	MS-MM-06	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	ESASP-471-121	-
2001-W02	2452046.07	2001 May 16 1341:00	Viper 3A	?	NASA 12.049UT	0.000	GSFC	SS	-	USU/Ulwick	Test	WFF-WWW	-	-
2001-W03	2452069.11	2001 Jun 8 1432:00	Viper 3A	-	SO-FS-01	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W04	2452072.55	2001 Jun 12 0110:30	Viper 3A	-	SO-FS-02	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W05	2452074.57	2001 Jun 14 0134:30	Viper 3A	-	SO-FS-03	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W06	2452077.49	2001 Jun 16 2351:00	Viper 3A	-	SO-FS-04	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W07	2452077.52	2001 Jun 17 0036	Viper 3A	-	SO-CH-06	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W08	2452077.54	2001 Jun 17 0059	Viper 3A	-	SO-FS-07	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W09	2452077.55	2001 Jun 17 0119	Viper 3A	-	SO-CH-08	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W10	2452081.57	2001 Jun 21 0144	Viper 3A	-	SO-CH-09	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W11	2452085.38	2001 Jun 24 2104	Viper 3A	-	SO-FS-10	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W12	2452085.41	2001 Jun 24 2151:00	Viper 3A	-	SO-CH-12	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W13	2452085.43	2001 Jun 24 2220:10	Viper 3A	-	SO-FS-13	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-W14	2452085.45	2001 Jun 24 2245:15	Viper 3A	-	SO-CH-14	0.000	NDRE	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2001-Y01	2452106.98	2001 Jul 16 1125	Viper 3A	-	ROFS-01	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y02	2452109.97	2001 Jul 19 1117:20	Viper 3A	-	ROFS-02	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y03	2452113.01	2001 Jul 22 1220:00	Viper 3A	-	ROFS-03	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y04	2452113.04	2001 Jul 22 1255:00	Viper 3A	-	ROCH-04	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y05	2452115.92	2001 Jul 25 1000:00	Viper 3A	-	ROFS-05	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y06	2452118.92	2001 Jul 28 1007:00	Viper 3A	-	ROFS-06	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y07	2452121.88	2001 Jul 31 0900:00	Viper 3A	-	ROFS-07	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y08	2452121.91	2001 Jul 31 0950:00	Viper 3A	-	ROCH-08	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y09	2452124.25	2001 Aug 2 1800:00	Viper 3A	-	ROFS-09	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y10	2452127.90	2001 Aug 6 0938:00	Viper 3A	-	ROFS-10	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y11	2452130.93	2001 Aug 9 1013:00	Viper 3A	-	ROFS-11	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y12	2452133.93	2001 Aug 12 1016:00	Viper 3A	-	ROFS-12	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y13	2452138.98	2001 Aug 17 1136:00	Viper 3A	-	ROFS-13	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y14	2452139.01	2001 Aug 17 1219:00	Viper 3A	-	ROCH-14	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y15	2452141.93	2001 Aug 20 1025:00	Viper 3A	-	ROFS-15	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y16	2452142.33	2001 Aug 20 1948:00	Viper 3A	-	ROFS-16	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y17	2452144.92	2001 Aug 23 1009:00	Viper 3A	-	ROFS-17	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y18	2452148.95	2001 Aug 27 1045:00	Viper 3A	-	ROFS-18	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y19	2452150.41	2001 Aug 28 2148:39	Viper 3A	-	ROFS-19	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y20	2452150.43	2001 Aug 28 2215:00	Viper 3A	-	ROCH-20	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y21	2452150.92	2001 Aug 29 1011:00	Viper 3A	-	ROFS-21	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y22	2452153.94	2001 Sep 1 1035:00	Viper 3A	-	ROFS-22	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y23	2452158.34	2001 Sep 5 2005:00	Viper 3A	-	ROFS-23	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y24	2452158.90	2001 Sep 6 0943:01	Viper 3A	-	ROFS-24	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y25	2452160.93	2001 Sep 8 1024:00	Viper 3A	-	ROFS-25	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y26	2452163.89	2001 Sep 11 0922:00	Viper 3A	-	ROFS-26	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y27	2452163.91	2001 Sep 11 0951:00	Viper 3A	-	ROFS-27	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y28	2452166.89	2001 Sep 14 0916:00	Viper 3A	-	ROFS-28	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y29	2452166.93	2001 Sep 14 1016:00	Viper 3A	-	ROFS-29	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2001-Y30	2452166.95	2001 Sep 14 1044:01	Viper 3A	-	ROCH-30	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W01	2452404.76	2002 May 10 0614:20	Viper 3A	-	NASA 37.12UE	0.000	GSFC	SS	-	PSU/Croskey	Aeron	Rigg	-	-
2002-W02	2452410.75	2002 May 16 0600:00	Viper 3A	-	NASA 37.13UE	0.000	GSFC	SS	-	PSU/Croskey	Aeron	Rigg	-	-
2002-W03	2452410.79	2002 May 16 0700:00	Viper 3A	-	NASA 37.14UE	0.000	GSFC	SS	-	PSU/Croskey	Aeron	Rigg	-	-
2002-W04	2452438.69	2002 Jun 13 0440:00	Viper 3A	-	NASA 12.51UE	0.000	GSFC	SS	-	UNH/Lynch	Aeron/Test	Rigg	-	-
2002-W08	2452457.35	2002 Jul 1 2020:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W09	2452457.39	2002 Jul 1 2120:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W10	2452457.43	2002 Jul 1 2220:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W11	2452457.47	2002 Jul 1 2320:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W12	2452457.51	2002 Jul 2 0020:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W14	2452457.56	2002 Jul 2 0120:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W18	2452460.34	2002 Jul 4 2014:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W20	2452460.40	2002 Jul 4 2130:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W22	2452460.46	2002 Jul 4 2300:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W23	2452460.47	2002 Jul 4 2320:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W24	2452460.50	2002 Jul 5 0005:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W25	2452460.60	2002 Jul 5 0219:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W26	2452460.62	2002 Jul 5 0300:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W30	2452460.78	2002 Jul 5 0645:00	Viper 3A	-	-	0.000	DLR	SS	-	NDRE/IAP/	Aeron	AND-WWW	-	-
2002-W31	2452507.93	2002 Aug 21 1023:00	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-Y01	2452507.95	2002 Aug 21 1049	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-Y02	2452510.92	2002 Aug 24 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W32	2452515.92	2002 Aug 29 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W33	2452521.92	2002 Sep 4 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W34	2452523.92	2002 Sep 6 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2002-W35	2452527.92	2002 Sep 10 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W36	2452530.95	2002 Sep 13 1050	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W37	2452531.94	2002 Sep 14 1027	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W38	2452534.92	2002 Sep 17 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W39	2452537.92	2002 Sep 20 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W40	2452537.94	2002 Sep 20 1035:30	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W41	2452539.92	2002 Sep 22 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W42	2452543.92	2002 Sep 26 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W43	2452546.92	2002 Sep 29 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W44	2452546.93	2002 Sep 29 1019	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W45	2452548.46	2002 Sep 30 2305	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W46	2452552.42	2002 Oct 4 2200	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W47	2452554.92	2002 Oct 7 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W48	2452554.93	2002 Oct 7 1025	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W49	2452554.95	2002 Oct 7 1048	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W50	2452557.92	2002 Oct 10 1000	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2002-W51	2452557.94	2002 Oct 10 1029	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	AND-WWW	-	-
2004-S79	2453268.45	2004 Sep 19 2250	Viper 3A	?	-	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	ESASP590-167	-	-
2004-S80	2453268.50	2004 Sep 20 0001	Viper 3A	?	-	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	ESASP590-167	-	-
2004-S81	2453268.58	2004 Sep 20 0200	Viper 3A	?	-	0.000	GSFC	SS	-	CLEM/Lehmacher	Aeron	ESASP590-167	-	-
2005-Y04	2453388.89	2005 Jan 18 0918	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y05	2453388.98	2005 Jan 18 1136:30	Viper 3A	-	Mini-MIDAS RPMM-01	0.000	DLR	SS	-	IAP/NDRE/Lubken,Brattli	Aeron	www.rocketrange.no	ESASP590-109	-
2005-Y06	2453389.00	2005 Jan 18 1206:00	Viper 3A	-	Mini-MIDAS RPMM-02	0.000	DLR	SS	-	IAP/NDRE/Lubken,Brattli	Aeron	www.rocketrange.no	ESASP590-109	-
2005-Y07	2453389.02	2005 Jan 18 1236:00	Viper 3A	-	ROMA/Winter (RW)	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y08	2453389.05	2005 Jan 18 1315:00	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y10	2453389.11	2005 Jan 18 1442	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y11	2453389.15	2005 Jan 18 1531	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y13	2453389.20	2005 Jan 18 1654	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y14	2453389.23	2005 Jan 18 1724	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y16	2453389.27	2005 Jan 18 1835	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y17	2453390.87	2005 Jan 20 0846	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y19	2453390.96	2005 Jan 20 1100	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y20	2453390.98	2005 Jan 20 1130	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y21	2453391.01	2005 Jan 20 1219	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y22	2453392.05	2005 Jan 21 1306	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y23	2453395.56	2005 Jan 25 0130	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y24	2453395.65	2005 Jan 25 0330	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y25	2453395.73	2005 Jan 25 0530	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2005-Y26	2453395.81	2005 Jan 25 0730	Viper 3A	-	-	0.000	DLR	SS	-	IAP/Lubken	Aeron	www.rocketrange.no	-	-
2009-S41	2455060.99	2009 Aug 17 1152	Viper 3A	-	-	0.000	WFF	SS	-	WFF/	Aeron	nasaspaceflight.com	-	-
2009-S74	2455060.50	2009 Aug 17	Viper 3A	-	-	0.000	WFF	SS	-	WFF/	Aeron	wff.nasa.gov	-	-
2012-S91	2456131.50	2012 Jul 23	Viper 3A	-	-	0.000	WFF	SS	-	WFF/	Aeron	wff.nasa.gov	-	-
2012-S92	2456131.50	2012 Jul 23	Viper 3A	-	-	0.000	WFF	SS	-	WFF/	Aeron	wff.nasa.gov	-	-
2014-A50	2456919.50	2014 Sep 19	DART	-	TV-01	0.000	TMINUS	AS	-	TMINUS/	Test	t-minus.nl	-	-
2016-A108	2457528.50	2016 May 20	DART	-	TV-02	0.000	TMINUS	AS	-	TMINUS/	Test	t-minus.nl	-	-
2020-S33	2459111.53	2020 Sep 19 0039:47	DART	-	TED-01	0.000	SLAUNCH	SS	-	DEWC/RAAF/	Tech	Wire	-	-
2020-S34	2459111.60	2020 Sep 19 0219:47	DART	-	TED-02?	0.000	SLAUNCH	SS	-	DEWC/RAAF/	Tech	Wire	-	-
2021-A26	2459490.50	2021 Oct 3	DART	-	-	0.000	TMINUS	SF	U	TMINUS/	Test	t-minus.nl	-	-
2022-A21	2459821.50	2022 Aug 30	DART	-	TED-3/VE2NOM	0.000	TMINUS	SF	U	TMINUS/	Test	southernlaunch.space	-	-
2024-M02	2460347.50	2024 Feb 7	DART	-	-	0.000	TMINUS	SF	S1	TMINUS/	Aeron?	linkedin.com	-	-
2025-M02	2460773.50	2025 Apr 8	DART	-	-	0.000	TMINUS	SS	-	TMINUS/	Aeron?	sscspace.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2024-006	2460317.80	2024 Jan 8 0718	Vulcan Centaur VC2S	-	V-001	Peregrine	CERT-1	-	-	CC	SLC41	-	-	-	-	-
2024-179	2460587.98	2024 Oct 4 1125:00	Vulcan Centaur VC2S	-	V-002	CERT-2	CERT-2	-	-	CC	SLC41	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2024-006	2460317.80	2024 Jan 8 0718	Vulcan Centaur VC2S	-	V-001	1.287	ULAD	DS	-	C	Sat EEO 0	Wire	-	-
2024-179	2460587.98	2024 Oct 4 1125:00	Vulcan Centaur VC2S	-	V-002	1.000	ULAD	DS	-	C	Sat EEO 0	Wire	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1945-A35	2431725.21	1945 Sep 26 1700	Tiny Tim	-	A	Booster test	-	-	-	WS	ALA1	-	-	4	-	-
1945-A36	2431724.50	1945 Sep 26	Tiny Tim	-	B	Booster test	-	-	-	WS	ALA1	-	-	4	-	-
1945-A37	2431724.50	1945 Sep 26	Tiny Tim	-	C	Booster test	-	-	-	WS	ALA1	-	-	4	-	-
1945-A38	2431725.50	1945 Sep 27	Tiny Tim	-	D	Booster test	-	-	-	WS	ALA1	-	-	4	-	-
1945-A04	2431725.50	1945 Sep 27	WAC	-	1	Dummy	-	-	-	WS	ALA1	-	-	2?	-	-
1945-A05	2431726.50	1945 Sep 28	WAC	-	2	Dummy	-	-	-	WS	ALA1	-	-	2	-	-
1945-A06	2431729.50	1945 Oct 1	WAC	-	3	1/4 Charge	-	-	-	WS	ALA1	-	-	8	-	-
1945-A07	2431730.50	1945 Oct 2	WAC	-	4	1/4 Charge	-	-	-	WS	ALA1	-	-	8	-	-
1945-M02	2431739.50	1945 Oct 11	WAC A	-	5	-	-	-	-	WS	ALA1	-	-	72	-	-
1945-M03	2431740.50	1945 Oct 12	WAC A	-	6	-	-	-	-	WS	ALA1	-	-	72	-	-
1945-A15	2431744.50	1945 Oct 16	WAC A	-	7	-	-	-	-	WS	ALA1	-	-	27	-	-
1945-M04	2431747.50	1945 Oct 19	WAC A	-	8	-	-	-	-	WS	ALA1	-	-	72	-	-
1945-A16	2431753.50	1945 Oct 25	WAC A	-	9	-	-	-	-	WS	ALA1	-	-	20?	-	-
1945-A17	2431753.50	1945 Oct 25	WAC A	-	10	-	-	-	-	WS	ALA1	-	-	20?	-	-
1946-A27	2431947.50	1946 May 7	Tiny Tim	-	11	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A04	2431950.50	1946 May 10	WAC A	-	12	Demo round	-	-	-	WS	ALA1	-	-	20?	-	-
1946-A28	2431960.50	1946 May 20	Tiny Tim	-	13	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A29	2431963.50	1946 May 23	Tiny Tim	-	14	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A30	2431963.50	1946 May 23	Tiny Tim	-	15	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A31	2431964.50	1946 May 24	Tiny Tim	-	16	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A32	2431964.50	1946 May 24	Tiny Tim	-	17	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A33	2431966.50	1946 May 26	Tiny Tim	-	18	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A34	2431966.50	1946 May 26	Tiny Tim	-	19	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A35	2431969.50	1946 May 29	Tiny Tim	-	20	-	-	-	-	WS	ALA1	-	-	4	-	-
1946-A21	2432156.50	1946 Dec 2	WAC B	-	21	Booster test	-	-	-	WS	ALA1	-	-	4	-	-
1946-A22	2432157.50	1946 Dec 3	WAC B	-	22	Modified WAC A	-	-	-	WS	ALA1	-	-	20	-	-
1946-A23	2432160.50	1946 Dec 6	WAC B	-	23	-	-	-	-	WS	ALA1	-	-	27	-	-
1946-A24	2432166.50	1946 Dec 12	WAC B	-	24	-	-	-	-	WS	ALA1	-	-	32	-	-
1946-A25	2432166.50	1946 Dec 12	WAC B	-	25	-	-	-	-	WS	ALA1	-	-	49	-	-
1946-M01	2432167.50	1946 Dec 13	WAC B	-	26	-	-	-	-	WS	ALA1	-	-	53	-	-
1947-A05	2432234.50	1947 Feb 18	WAC B	-	27B	Booster test	-	-	-	WS	ALA1	-	-	4?	-	-
1947-A06	2432235.50	1947 Feb 19	WAC B	-	28B	-	-	-	-	WS	ALA1	-	-	44	-	-
1947-M02	2432240.50	1947 Feb 24	WAC B	-	29B	-	-	-	-	WS	ALA1	-	-	73	-	-
1947-M03	2432247.50	1947 Mar 3	WAC B	-	30B	-	-	-	-	WS	ALA1	-	-	63	-	-
1947-M05	2432348.50	1947 Jun 12	WAC B	-	29B?	-	-	-	-	WS	ALA1	-	-	60	-	-
1949-A15	2433046.25	1949 May 9 1805	WAC B	-	9B	-	-	-	-	WS	ALA1	-	-	40?	-	-
1949-A21	2433063.50	1949 May 27	WAC B	-	10B	-	-	-	-	WS	ALA1	-	-	40?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1945-A35	2431725.21	1945 Sep 26 1700	Tiny Tim	-	A	0.000	ORD	SS	-	JPL/Malina	Test	Corp-Hist	-	-
1945-A36	2431724.50	1945 Sep 26	Tiny Tim	-	B	0.000	ORD	SS	-	JPL/Malina	Test	Corp-Hist	-	-
1945-A37	2431724.50	1945 Sep 26	Tiny Tim	-	C	0.000	ORD	SS	-	JPL/Malina	Test	Corp-Hist	-	-
1945-A38	2431725.50	1945 Sep 27	Tiny Tim	-	D	0.000	ORD	SS	-	JPL/Malina	Test	Corp-Hist	-	-
1945-A04	2431725.50	1945 Sep 27	WAC	-	1	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A05	2431726.50	1945 Sep 28	WAC	-	2	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A06	2431729.50	1945 Oct 1	WAC	-	3	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A07	2431730.50	1945 Oct 2	WAC	-	4	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-M02	2431739.50	1945 Oct 11	WAC A	-	5	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-M03	2431740.50	1945 Oct 12	WAC A	-	6	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A15	2431744.50	1945 Oct 16	WAC A	-	7	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-M04	2431747.50	1945 Oct 19	WAC A	-	8	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A16	2431753.50	1945 Oct 25	WAC A	-	9	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1945-A17	2431753.50	1945 Oct 25	WAC A	-	10	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-A27	2431947.50	1946 May 7	Tiny Tim	-	11	0.000	ORD	AF	U	JPL/Malina	Test	wsmr-history.org	-	-
1946-A04	2431950.50	1946 May 10	WAC A	-	12	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-A28	2431960.50	1946 May 20	Tiny Tim	-	13	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A29	2431963.50	1946 May 23	Tiny Tim	-	14	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A30	2431963.50	1946 May 23	Tiny Tim	-	15	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A31	2431964.50	1946 May 24	Tiny Tim	-	16	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A32	2431964.50	1946 May 24	Tiny Tim	-	17	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A33	2431966.50	1946 May 26	Tiny Tim	-	18	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A34	2431966.50	1946 May 26	Tiny Tim	-	19	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A35	2431969.50	1946 May 29	Tiny Tim	-	20	0.000	ORD	AS	-	JPL/Malina	Test	wsmr-history.org	-	-
1946-A21	2432156.50	1946 Dec 2	WAC B	-	21	0.000	ORD	SF	U	JPL/Malina	Test	JPL4-41	-	-
1946-A22	2432157.50	1946 Dec 3	WAC B	-	22	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-A23	2432160.50	1946 Dec 6	WAC B	-	23	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-A24	2432166.50	1946 Dec 12	WAC B	-	24	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-A25	2432166.50	1946 Dec 12	WAC B	-	25	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1946-M01	2432167.50	1946 Dec 13	WAC B	-	26	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1947-A05	2432234.50	1947 Feb 18	WAC B	-	27B	0.000	ORD	SF	U	JPL/Malina	Test	JPL4-41	-	-
1947-A06	2432235.50	1947 Feb 19	WAC B	-	28B	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1947-M02	2432240.50	1947 Feb 24	WAC B	-	29B	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1947-M03	2432247.50	1947 Mar 3	WAC B	-	30B	0.000	ORD	SS	-	JPL/Malina	Test	JPL4-41	-	-
1947-M05	2432348.50	1947 Jun 12	WAC B	-	29B?	0.000	ORD	SS	-	JPL/Malina	Test	WSMR-PAO	-	-
1949-A15	2433046.25	1949 May 9 1805	WAC B	-	9B	0.000	ORD	SU	-	JPL/Malina	Test	Ulrich	wsmr-history.org	-
1949-A21	2433063.50	1949 May 27	WAC B	-	10B	0.000	ORD	SU	-	JPL/Malina	Test	wsmr-history.org	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1959-A46	2436638.24	1959 Mar 10 1750	X-15	1	1-C-1	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS D	11	-	EAFB
1959-A57	2436659.50	1959 Apr 1	X-15	1	1-A-2	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS D	11	-	EAFB
1959-A60	2436669.18	1959 Apr 10 1624	X-15	1	1-A-3	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS D	11	-	EAFB
1959-A80	2436709.50	1959 May 21	X-15	1	1-A-4	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS D	11	-	EAFB
1959-A93	2436728.15	1959 Jun 8 1538:40	X-15	1	1-1-5	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS D	11	-	EAFB RW35?
1959-A120	2436773.50	1959 Jul 24	X-15	1	2-C-1	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS C	14	-	EAFB
1959-A157	2436816.06	1959 Sep 4 1323	X-15	1	2-A-2	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS C	14	-	EAFB
1959-A160	2436829.13	1959 Sep 17 1508:48	X-15	1	2-1-3	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS C	15	-	EAFB
1959-A172	2436851.50	1959 Oct 10	X-15	1	2-A-4	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1959-A174	2436855.50	1959 Oct 14	X-15	1	2-A-5	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1959-A175	2436859.26	1959 Oct 17 1813:07	X-15	1	2-2-6	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	18	-	EAFB
1959-A179	2436863.50	1959 Oct 22	X-15	1	2-A-7	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1959-A186	2436872.50	1959 Oct 31	X-15	1	2-A-8	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1959-A188	2436878.24	1959 Nov 5 1739:28	X-15	1	2-3-9	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	13	-	EAFB ROS
1959-A208	2436918.50	1959 Dec 16	X-15	1	1-A-6	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1960-A18	2436957.51	1960 Jan 24 0017:05	X-15	1	1-2-7	SAS Eval	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	20	-	EAFB
1960-A31	2436968.50	1960 Feb 4	X-15	1	2-A-10	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1960-A43	2436976.26	1960 Feb 11 1815:04	X-15	1	2-4-11	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	26	-	EAFB
1960-A49	2436982.24	1960 Feb 17 1741:32	X-15	1	2-5-12	SAS Eval	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	16	-	EAFB
1960-A69	2437011.19	1960 Mar 17 1631:25	X-15	1	2-6-13	SAS Eval/Stability	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	16	-	EAFB
1960-A70	2437011.50	1960 Mar 18	X-15	1	2-A-14	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1960-A76	2437019.49	1960 Mar 25 2343:23	X-15	1	1-3-8	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB RW35
1960-A78	2437023.25	1960 Mar 29 1759:28	X-15	1	2-7-15	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	15	-	EAFB
1960-A90	2437025.20	1960 Mar 31 1642:05	X-15	1	2-8-16	SAS Gains	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	15	-	EAFB
1960-A97	2437038.22	1960 Apr 13 1715:11	X-15	1	1-4-9	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB RW25?
1960-A101	2437044.20	1960 Apr 19 1651:44	X-15	1	1-5-10	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	18	-	EAFB RW25
1960-A115	2437059.50	1960 May 5	X-15	1	2-A-17	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS WAL	14	-	EAFB
1960-A117	2437061.20	1960 May 6 1653:19	X-15	1	1-6-11	-	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS WAL	18	-	EAFB
1960-A122	2437067.16	1960 May 12 1547:37	X-15	1	1-7-12	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	23	-	EAFB
1960-A124	2437074.16	1960 May 19 1546:47	X-15	1	1-8-13	Alt Buildup	-	-	NB-52-003	EAFB	RW04/22	SIL	A	33	-	EAFB
1960-A128	2437081.17	1960 May 26 1608:36	X-15	1	2-9-18	SAS, High alpha, BCS	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS C	15	-	EAFB
1960-A130	2437081.50	1960 May 27	X-15	1	1-A-14	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A141	2437088.50	1960 Jun 3	X-15	1	1-A-15	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A145	2437093.50	1960 Jun 8	X-15	1	1-A-16	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A190	2437151.17	1960 Aug 4 1559:13	X-15	1	1-9-17	Aero Heating	-	-	NB-52-003	EAFB	RW04/22	SIL	A	23	-	EAFB RW35?
1960-A197	2437157.50	1960 Aug 11	X-15	1	1-A-18	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A199	2437159.16	1960 Aug 12 1548:43	X-15	1	1-10-19	High Alt	-	-	NB-52-003	EAFB	RW04/22	SIL	A	41	-	EAFB RW35?
1960-A204	2437164.50	1960 Aug 18	X-15	1	1- A-20	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A205	2437166.15	1960 Aug 19 1534:22	X-15	1	1-11-21	Aero Heating	-	-	NB-52-003	EAFB	RW04/22	SIL	A	23	-	EAFB RW18
1960-A215	2437179.50	1960 Sep 2	X-15	1	1- A-22	-	-	-	NB-52-008	EAFB	RW04/22	SIL	A	14	-	EAFB
1960-A218	2437188.28	1960 Sep 10 1845:10	X-15	1	1-12-23	Stability/Control	-	-	NB-52-008	EAFB	RW04/22	SIL	A	24	-	EAFB RW25?
1960-A221	2437197.50	1960 Sep 20	X-15	1	1- A-24	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB
1960-A229	2437201.20	1960 Sep 23 1652:06	X-15	1	1-13-25	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	16	-	EAFB RW18
1960-A241	2437218.50	1960 Oct 11	X-15	1	1- A-26	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB
1960-A243	2437220.50	1960 Oct 13	X-15	1	2- A-19	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS C	14	-	EAFB
1960-A247	2437228.23	1960 Oct 20 1730:27	X-15	1	1-14-27	Stability/Control	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	16	-	EAFB RW35
1960-A253	2437236.24	1960 Oct 28 1743:56	X-15	1	1-15-28	Stability/Control	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	15	-	EAFB RW18?
1960-A256	2437242.50	1960 Nov 4	X-15	1	2- A-20	-	-	-	NB-52	EAFB	RW04/22	EAFB	ROS C	14	-	EAFB
1960-A257	2437243.36	1960 Nov 4 2043:33	X-15	1	1-16-29	Stability/Control	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB RW35?
1960-A264	2437254.25	1960 Nov 15 1759:00	X-15	-	2-10-21	XLR-99 Checkout	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS C	24	-	EAFB
1960-A268	2437256.36	1960 Nov 17 2043:07	X-15	1	1-17-30	Aero Heating	-	-	NB-52-003	EAFB	RW04/22	EAFB	PLM	16	-	EAFB RW35?
1960-A272	2437261.39	1960 Nov 22 2125:55	X-15	-	2-11-22	XLR-99, BCS	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS C	18	-	EAFB
1960-A283	2437269.28	1960 Nov 30 1842:43	X-15	1	1-18-31	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB RW18
1960-A291	2437275.48	1960 Dec 6 2329:30	X-15	-	2-12-23	XLR-99, BCS	-	-	NB-52-003	EAFB	RW04/22	EAFB	ROS B	16	-	EAFB
1960-A295	2437278.33	1960 Dec 9 1952:40	X-15	1	1-19-32	Ball nose, Stabil.	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	15	-	EAFB
1960-A301	2437283.50	1960 Dec 15	X-15	1	1- A-33	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB
1961-A19	2437310.50	1961 Jan 11	X-15	1	1- A-34	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	14	-	EAFB
1961-A42	2437332.28	1961 Feb 1 1847:32	X-15	1	1-20-35	Ball/side controller	-	-	NB-52-008	EAFB	RW04/22	EAFB	PLM	15	-	EAFB
1961-A45	2437338.37	1961 Feb 7 2056:10	X-15	1	1-21-36	Stab./Control	-	-	NB-52-008	EAFB	RW04/22	SIL	A	23	-	EAFB
1961-A51	2437351.50	1961 Feb 21	X-15	-	2- A-24	-	-	-	NB-52	EAFB	RW04/22	SIL	A	14	-	EAFB
1961-A53	2437354.50	1961 Feb 24	X-15	-	2- A-25	-	-	-	NB-52	EAFB	RW04/22	SIL	A	14	-	EAFB
1961-A73	2437366.27	1961 Mar 7 1828:33	X-15	-	2-13-26	Mach 4 flight	-	-	NB-52-008	EAFB	RW04/22	SIL	A	23	-	EAFB
1961-A79	2437379.50	1961 Mar 21	X-15	-	2- A-27	-	-	-	NB-52-008	EAFB	RW04/22	HH	A1	14	-	EAFB
1961-M07	2437389.25	1961 Mar 30 1805:00	X-15	-	2-14-28	Alt., BCS, Aero	-	-	NB-52-008	EAFB	RW04/22	HH	A1	51	-	EAFB RW18?
1961-A108	2437411.25	1961 Apr 21 1805:17	X-15	-	2-15-29	Mach 4, Aero	-	-	NB-52-003	EAFB	RW04/22	HH	A1	32	-	EAFB
1961-A126	2437438.50	1961 May 19	X-15	-	2- A-30	-	-	-	NB-52-003	EAFB	RW04/22	MUD	A	14	-	EAFB
1961-A130	2437445.30	1961 May 25 1916:35	X-15	-	2-16-31	Mach 5, SAS, Aero	-	-	NB-52-003	EAFB	RW04/22	MUD	A	32	-	EAFB
1961-A154	2437470.50	1961 Jun 20	X-15	-	2- A-32	-	-	-	NB-52-008	EAFB	RW04/22	MUD	A	14	-	EAFB
1961-A158	2437474.38	1961 Jun 23 2100:05	X-15	-	2-17-33	Mach 5, Aero, Stab.	-	-	NB-52-003	EAFB	RW04/22	MUD	A	32	-	EAFB RW18?
1961-A187	2437522.23	1961 Aug 10 1727:05	X-15	-	1-22-37	XLR-99, beta-dot	-	-	NB-52-003	EAFB	RW04/22	SIL	A	23	-	EAFB RW18?
1961-A199	2437555.40	1961 Sep 12 2140:17	X-15	-	2-18-34	Mach 5, Aero, Stab.	-	-	NB-52-008	EAFB	RW04/22	MUD	A	34	-	EAFB
1961-A206	2437571.24	1961 Sep 28 1750:25	X-15	-	2-19-35	Mach 5, Heat Trans.	-	-	NB-52-008	EAFB	RW04/22	HH	A3	31	-	EAFB
1961-A207	2437571.50	1961 Sep 29	X-15	-	1- A-38	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1961-A215	2437576.28	1961 Oct 3 1840:50	X-15	-	1-23-39	VO Stability	-	-	NB-52-003	EAFB	RW04/22	SIL	A	23	-	EAFB RW25?
1961-M29	2437584.35	1961 Oct 11 2020:00	X-15	-	2-20-36	Alt, Aero, Low q	-	-	NB-52-003	EAFB	RW04/22	MUD	A	66	-	EAFB RW18
1961-A220	2437590.29	1961 Oct 17 1857:33	X-15	-	1-24-40	Mach 5, Aero, Stab	-	-	NB-52-003	EAFB	RW04/22	MUD	A	33	-	EAFB
1961-A227	2437599.50	1961 Oct 27	X-15	-	1- A-41	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1961-A231	2437605.50	1961 Nov 2	X-15	-	1- A-42	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1961-A232	2437606.50	1961 Nov 3	X-15	-	1- A-43	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1961-A233	2437613.25	1961 Nov 9 1757:17	X-15	-	2-21-37	Mach 6, Aero, Stab	-	-	NB-52-008	EAFB	RW04/22	MUD	A	31	-	EAFB RW18
1961-A249	2437652.50	1961 Dec 19	X-15	-	3-A-1	-	-	-	NB-52-003	EAFB	RW04/22	SIL	A	14	-	EAFB
1961-A250	2437654.45	1961 Dec 20 2245:50	X-15	-	3-1-2	MH-96	-	-	NB-52-003	EAFB	RW04/22	SIL	A	24	-	EAFB
1962-A05	2437675.35	1962 Jan 10 2028:16	X-15	-	1-25-44	High alpha, Aero	-	-	NB-52-003	EAFB	RW04/22	MUD	A	13	-	MUD RW18
1962-A09	2437682.33	1962 Jan 17 2000:34	X-15	-	3-2-3	MH-96. Mach 5	-	-	NB-52-003	EAFB	RW04/22	MUD	A	40	-	EAFB
1962-A39	2437752.50	1962 Mar 29	X-15	-	3-A-4	-	-	-	NB-52-003	EAFB	RW04/22	HH	A2	14	-	EAFB
1962-A41	2437753.50	1962 Mar 30	X-15	-	3-A-5	-	-	-	NB-52-003	EAFB	RW04/22	HH	A2	14	-	EAFB

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1962-A44	2437754.50	1962 Mar 31	X-15	-	3-A-6	-	-	-	NB-52-003	EAFB	RW04/22	HH	A2	14	-	EAFB
1962-M04	2437760.25	1962 Apr 5 1804:25	X-15	-	3-3-7	MH-96	-	-	NB-52-003	EAFB	RW04/22	HH	A2	54	-	EAFB
1962-A53	2437772.50	1962 Apr 18	X-15	-	1- A-45	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1962-A56	2437774.25	1962 Apr 19 1802:20	X-15	-	1-26-46	ASAS, alpha 20, M=5	-	-	NB-52-003	EAFB	RW04/22	MUD	A	46	-	EAFB
1962-M05	2437775.31	1962 Apr 20 1926:58	X-15	-	3-4-8	MH-96, M=5	-	-	NB-52-008	EAFB	RW04/22	MUD	A	63	-	EAFB RW35
1962-A60	2437779.50	1962 Apr 25	X-15	-	2- A-38	-	-	-	NB-52	EAFB	RW04/22	HH	B2	14	-	EAFB
1962-A61	2437780.50	1962 Apr 26	X-15	-	2- A-39	-	-	-	NB-52	EAFB	RW04/22	HH	B2	14	-	EAFB
1962-A62	2437781.50	1962 Apr 27	X-15	-	1- A-47	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1962-M06	2437785.22	1962 Apr 30 1723:20	X-15	-	1-27-48	Alt, Low q, Aero	-	-	NB-52-008	EAFB	RW04/22	MUD	A	75	-	EAFB RW18?
1962-A65	2437786.50	1962 May 2	X-15	-	(3-C)	Eglin Demo	-	-	NB-52-003	EAFB	RW04/22	-	-	14?	-	EGL
1962-A70	2437789.50	1962 May 5	X-15	-	(3-C)	Eglin Demo	-	-	NB-52-003	EGL	RW12/30	-	-	14?	-	ALT
1962-A71	2437789.50	1962 May 5	X-15	-	(3-C)	Eglin Demo	-	-	NB-52-003	ALT	RW17R/35L	-	-	14?	-	EAFB
1962-A73	2437793.21	1962 May 8 1701:28	X-15	-	2-22-40	Heat T/ASAS/High al.	-	-	NB-52-008	EAFB	RW04/22	HH	B2	21	-	EAFB RW18?
1962-A80	2437807.21	1962 May 22 1704:46	X-15	-	1-28-49	Local flow	-	-	NB-52-003	EAFB	RW04/22	HH	B3	30	-	EAFB RW18?
1962-A84	2437809.50	1962 May 25	X-15	-	2- A-41	-	-	-	NB-52	EAFB	RW04/22	DDL	LP2A	14	-	EAFB
1962-A87	2437813.50	1962 May 29	X-15	-	2- A-42	-	-	-	NB-52	EAFB	RW04/22	DDL	LP2A	14	-	EAFB
1962-A90	2437817.24	1962 Jun 1 1751:15	X-15	-	2-23-43	ASAS, 23 alpha, M=5	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2A	40	-	EAFB RW18?
1962-A94	2437823.23	1962 Jun 7 1729:20	X-15	-	1-29-50	Local flow, M=5	-	-	NB-52-003	EAFB	RW04/22	HH	A4	31	-	EAFB RW18?
1962-M10	2437828.29	1962 Jun 12 1904:00	X-15	-	3-5-9	RCS check, M=5	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2A	56	-	EAFB RW18?
1962-M11	2437837.20	1962 Jun 21 1647:05	X-15	-	3-6-10	MH-96 Demo, M=5	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2A	75	-	EAFB
1962-A101	2437843.34	1962 Jun 27 2008:10	X-15	-	1-30-51	High alpha, Mach 6	-	-	NB-52-003	EAFB	RW04/22	MUD	A	37	-	EAFB RW18?
1962-A104	2437845.24	1962 Jun 29 1741:47	X-15	-	2-24-44	Heating rates, notch	-	-	NB-52-008	EAFB	RW04/22	HH	B3	25	-	EAFB RW18?
1962-A108	2437855.50	1962 Jul 10	X-15	-	3-A-11	-	-	-	NB-52-003	EAFB	RW04/22	SRL	-	14	-	EAFB
1962-A109	2437856.50	1962 Jul 11	X-15	-	3-A-12	-	-	-	NB-52-003	EAFB	RW04/22	SRL	-	14	-	EAFB
1962-A112	2437861.50	1962 Jul 16	X-15	-	3-A-13	-	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2A	14	-	EAFB
1962-A113	2437862.38	1962 Jul 16 2109:25	X-15	-	1-31-52	Notch/ASAS/Aero drag	-	-	NB-52-008	EAFB	RW04/22	MUD	A	32	-	EAFB
1962-S244	2437863.19	1962 Jul 17 1631:10	X-15	-	3-7-14	MH-96 Demo	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2	95	-	EAFB RW18?
1962-A114	2437865.20	1962 Jul 19 1653:45	X-15	-	2-25-45	Heating rates, drag	-	-	NB-52-008	EAFB	RW04/22	HH	B3	26	-	EAFB RW18
1962-A116	2437872.27	1962 Jul 26 1822:30	X-15	-	1-32-53	Aero stab. and drag	-	-	NB-52-003	EAFB	RW04/22	MUD	A	30	-	EAFB RW18?
1962-A126	2437877.50	1962 Aug 1	X-15	-	3-A-15	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1962-A128	2437879.21	1962 Aug 2 1656:15	X-15	-	3-8-16	MH-96 fixed gain	-	-	NB-52-003	EAFB	RW04/22	MUD	A	44	-	EAFB RW18?
1962-A131	2437885.21	1962 Aug 8 1708:35	X-15	-	2-26-46	Heating, aero drag	-	-	NB-52-008	EAFB	RW04/22	HH	A5	27	-	EAFB
1962-A135	2437886.50	1962 Aug 10	X-15	-	3-A-17	-	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2A	14	-	EAFB
1962-M18	2437891.24	1962 Aug 14 1741:35	X-15	-	3-9-18	Const Theta Entry	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2A	59	-	EAFB RW18?
1962-A142	2437897.21	1962 Aug 20 1708:40	X-15	-	2-27-47	Heating, drag, ASAS	-	-	NB-52-008	EAFB	RW04/22	HH	A3	27	-	EAFB
1962-A145	2437906.23	1962 Aug 29 1736:03	X-15	-	2-28-48	Heating	-	-	NB-52-008	EAFB	RW04/22	HH	A1	29	-	EAFB
1962-A159	2437934.50	1962 Sep 27	X-15	-	2- A-49	-	-	-	NB-52-008	EAFB	RW04/22	HH	B3	14	-	EAFB
1962-A161	2437936.21	1962 Sep 28 1704:55	X-15	-	2-29-50	Heating, VO Stab	-	-	NB-52-008	EAFB	RW04/22	HH	B3	20	-	EAFB RW18?
1962-A165	2437942.22	1962 Oct 4 1710:11	X-15	-	3-10-19	VO Stability	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2A	34	-	EAFB
1962-A168	2437947.25	1962 Oct 9 1758:32	X-15	-	2-30-51	VO Stability	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2A	39	-	EAFB RW18
1962-A177	2437961.27	1962 Oct 23 1830:40	X-15	-	3-11-20	VO Stability	-	-	NB-52-008	EAFB	RW04/22	MUD	A	41	-	EAFB
1962-A193	2437978.27	1962 Nov 9 1823:07	X-15	-	2-31-52	VO Stab, Bound.Layer	-	-	NB-52-008	EAFB	RW04/22	MUD	A	16	-	MUD RW09?
1962-A222	2438011.50	1962 Dec 13	X-15	-	3- A-21	VO Stab, UVP	-	-	NB-52-008	EAFB	RW04/22	MUD	A	14	-	EAFB
1962-A225	2438013.28	1962 Dec 14 1844:07	X-15	-	3-12-22	VO Stab, UVP	-	-	NB-52-008	EAFB	RW04/22	MUD	A	43	-	EAFB RW18?
1962-A232	2438019.31	1962 Dec 20 1925:04	X-15	-	3-13-23	VO Stab, MH-96	-	-	NB-52-008	EAFB	RW04/22	MUD	A	48	-	EAFB RW18?
1963-S14	2438047.29	1963 Jan 17 1859:37	X-15	-	3-14-24	VO Alt, IR expt	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	82	-	EAFB RW18?
1963-A53	2438131.25	1963 Apr 11 1803:20	X-15	-	1-33-54	KC-1/APU	-	-	NB-52-008	EAFB	RW04/22	HH	A2	22	-	EAFB RW18?
1963-A60	2438138.34	1963 Apr 18 2016:17	X-15	-	3-15-25	HT,Local flow,IR	-	-	NB-52-008	EAFB	RW04/22	HH	B3	28	-	EAFB
1963-A66	2438145.42	1963 Apr 25 2204:19	X-15	-	1-34-55	KC-1	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	32	-	EAFB RW23
1963-M28	2438152.21	1963 May 2 1659:54	X-15	-	3-16-26	APU,UVP,IR,flow	-	-	NB-52-008	EAFB	RW04/22	MUD	B	63	-	EAFB RW18?
1963-A73	2438159.50	1963 May 10	X-15	-	3- A-27	-	-	-	NB-52-008	EAFB	RW04/22	HH	A4	14	-	EAFB
1963-A74	2438164.30	1963 May 14 1911:56	X-15	-	3-17-28	Heating,UVP,IR	-	-	NB-52-008	EAFB	RW04/22	HH	A4	29	-	EAFB
1963-A76	2438165.24	1963 May 15 1750:46	X-15	-	1-35-56	Opt Deg/Trav Probe	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	37	-	EAFB RW18?
1963-A83	2438179.24	1963 May 29 1743:22	X-15	-	3-18-29	Aero heating/VO Stab	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	28	-	EAFB
1963-M33	2438199.23	1963 Jun 18 1734:21	X-15	-	3-19-30	Alt, UVP, Tail p	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	68	-	EAFB
1963-A95	2438206.20	1963 Jun 25 1653:50	X-15	-	1-36-57	Opt Deg/Trav Probe	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	34	-	EAFB
1963-S304	2438208.21	1963 Jun 27 1656:03	X-15	-	3-20-31	Alt/UVP/IR/HorScan	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	86	-	EAFB RW18?
1963-A103	2438213.50	1963 Jul 3	X-15	-	1- A-58	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1963-M36	2438220.30	1963 Jul 9 1912:12	X-15	-	1-37-59	Opt Deg/TravP/RAS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	69	-	EAFB
1963-A106	2438227.50	1963 Jul 17	X-15	-	1- A-60	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1963-A108	2438229.21	1963 Jul 18 1707:20	X-15	-	1-38-61	VO Stability	-	-	NB-52-003	EAFB	RW04/22	MUD	A	31	-	EAFB
1963-S344	2438230.22	1963 Jul 19 1720:05	X-15	-	3-21-32	VO,UVP,IR,HS,Balloon	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	106	-	EAFB RW18?
1963-A117	2438247.50	1963 Aug 6	X-15	-	3- A-33	-	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	14	-	EAFB
1963-A119	2438254.50	1963 Aug 13	X-15	-	3- A-34	-	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	14	-	EAFB
1963-A120	2438256.50	1963 Aug 15	X-15	-	3- A-35	-	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	14	-	EAFB
1963-S401	2438264.21	1963 Aug 22 1705:57	X-15	-	3-22-36	VO,Spectrom,Photom	-	-	NB-52-003	EAFB	RW04/22	SRL	LP1	108	-	EAFB RW18?
1963-A138	2438306.50	1963 Oct 4	X-15	-	1- A-62	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1963-A141	2438310.31	1963 Oct 7 1922:56	X-15	-	1-39-63	Checkout/Opt Deg.	-	-	NB-52-008	EAFB	RW04/22	HH	A2	23	-	EAFB RW18
1963-A146	2438316.50	1963 Oct 14	X-15	-	3- A-37	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1963-A152	2438332.32	1963 Oct 29 1942:34	X-15	-	1-40-64	Checkout/Opt Deg.	-	-	NB-52-008	EAFB	RW04/22	HH	A2	22	-	EAFB
1963-A151	2438327.50	1963 Oct 25	X-15	-	3- A-38	Sharp Upper Vert.	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1963-A166	2438341.26	1963 Nov 7 1811:14	X-15	-	3-23-39	Sharp Upper Vert.	-	-	NB-52-008	EAFB	RW04/22	HH	A2	25	-	EAFB RW18?
1963-A169	2438348.31	1963 Nov 14 1919:21	X-15	-	1-41-65	CO/Opt Deg/Systems	-	-	NB-52-008	EAFB	RW04/22	HH	A2	27	-	EAFB RW18?
1963-A173	2438352.50	1963 Nov 19	X-15	-	3- A-40	Checkout	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1963-A176	2438361.35	1963 Nov 27 2017:40	X-15	-	3-24-41	Checkout	-	-	NB-52-008	EAFB	RW04/22	HH	A2	27	-	EAFB
1963-A178	2438366.50	1963 Dec 3	X-15	-	1- A-66	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1963-A181	2438369.29	1963 Dec 5 1904:36	X-15	-	1-42-67	Opt Deg/Sys/Mach 6	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	30	-	EAFB
1963-A186	2438381.50	1963 Dec 18	X-15	-	1- A-68	Opt Deg	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1964-A02	2438403.34	1964 Jan 8 2010:31	X-15	-	1-43-69	SAS Off Stability	-	-	NB-52-008	EAFB	RW04/22	MUD	A	42	-	EAFB
1964-A05	2438411.25	1964 Jan 16 1803:30	X-15	-	3-25-42	Sharp Upper Vert	-	-	NB-52-008	EAFB	RW04/22	HH	A2	21	-	EAFB RW18?
1964-A14	2438423.34	1964 Jan 28 2011:36	X-15	-	1-44-70	Stability	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	32	-	EAFB
1964-A25	2438445.25	1964 Feb 19 1757:24	X-15	-	3-26-43	SUV,Boundary Layer	-	-	NB-52-003	EAFB	RW04/22	HH	B3	23	-	EAFB RW18?
1964-A34	2438468.24	1964 Mar 13 1746:27	X-15	-	3-27-44	SUV,Boundary Layer	-	-	NB-52-003	EAFB	RW04/22	HH	A2	23	-	EAFB RW23
1964-A37	2438471.50	1964 Mar 17	X-15	-	1- A-71	Optical Degradation	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1964-A44	2438482.26	1964 Mar 27 1810:18	X-15	-	1-45-72	Optical Degradation	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	30	-	EAFB
1964-A46	2438485.50	1964 Mar 31	X-15	-	3- A-45	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1964-M08	2438494.25	1964 Apr 8 1802:27	X-15	-	1-46-73	Opt Deg/Alt Build	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	53	-	EAFB RW18?
1964-A61	2438515.21	1964 Apr 29 1700:27	X-15	-	1-47-74	Opt Deg/Att Indic.	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	31	-	EAFB RW18?
1964-A66	2438526.50	1964 May 11	X-15	-	3- A-46	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1964-A67	2438528.20	1964 May 12 1651:46	X-15	-	3-28-47	SUV/BLN	-	-	NB-52-003	EAFB	RW04/22	HH	A2	22	-	EAFB RW18?
1964-M10	2438535.23	1964 May 19 1726:28	X-15	-	1-48-75	Opt Deg/Alt Build	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	59	-	EAFB RW23
1964-A72	2438537.19	1964 May 21 1639:34	X-15	-	3-29-48	SUV/BLN	-	-	NB-52-003	EAFB	RW04/22	SIL	C	19	-	CUD RW01/19
1964-A87	2438561.50	1964 Jun 15	X-15	-	2- C-53	Carry Test	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A	14	-	EAFB
1964-A91	2438569.50	1964 Jun 23	X-15	-	2- A-54	Stability	-	-	NB-52	EAFB	RW04/22	HH	B2	14	-	EAFB
1964-A93	2438572.19	1964 Jun 25 1634:47	X-15	-	2-32-55	Stability	-	-	NB-52-003	EAFB	RW04/22	HH	B2	25	-	EAFB RW18?
1964-A83	2438557.50	1964 Jun 11	X-15	-	1- A-76	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1964-A99	2438577.20	1964 Jun 30 1649:40	X-15	-	1-49-77	Opt Deg/Alt Build	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	30	-	EAFB
1964-A100	2438578.50	1964 Jul 2	X-15	-	3- A-49	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1964-M15	2438585.34	1964 Jul 8 2002:52	X-15	-	3-30-50	Hor Scan/MH-96	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	51	-	EAFB RW18?
1964-A110	2438604.50	1964 Jul 28	X-15	-	3- A-51	-	-	-	NB-52	EAFB	RW04/22	HH	B3	14	-	EAFB
1964-A114	2438606.29	1964 Jul 29 1855:19	X-15	-	3-31-52	Heat tran/Local Flow	-	-	NB-52-003	EAFB	RW04/22	HH	B3	23	-	EAFB RW18
1964-A120	2438620.22	1964 Aug 12 1712:33	X-15	-	3-32-53	Heat tran/LF/BLN	-	-	NB-52-003	EAFB	RW04/22	HH	B3	24	-	EAFB RW18?
1964-A121	2438622.20	1964 Aug 14 1654:19	X-15	-	2-33-56	Stability	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	31	-	EAFB RW18
1964-A125	2438634.24	1964 Aug 26 1742:07	X-15	-	3-33-54	HT/LF/BLN	-	-	NB-52-003	EAFB	RW04/22	HH	B3	27	-	EAFB RW18?
1964-A128	2438642.20	1964 Sep 3 1654:54	X-15	-	3-34-55	HT/BLN	-	-	NB-52-003	EAFB	RW04/22	HH	B3	23	-	EAFB
1964-A135	2438661.50	1964 Sep 23	X-15	-	3- A-56	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1964-A136	2438667.34	1964 Sep 28 2016:00	X-15	-	3-35-57	MA-45R TPS, BLN	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	29	-	EAFB RW18?
1964-A140	2438668.33	1964 Sep 29 2000:13	X-15	-	2-34-57	Stab.,Star tracker	-	-	NB-52-008	EAFB	RW04/22	MUD	A	29	-	EAFB
1964-A147	2438670.50	1964 Oct 2	X-15	-	1- A-78	-	-	-	NB-52	EAFB	RW04/22	HH	B3	14	-	EAFB
1964-A152	2438684.34	1964 Oct 15 2015:40	X-15	-	1-50-79	IFDS/Tip Pod/AD-SB	-	-	NB-52-008	EAFB	RW04/22	HH	B3	25	-	EAFB RW18?
1964-A158	2438697.50	1964 Oct 29	X-15	-	3- C-58	Gear mod check	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A?	14	-	EAFB
1964-A159	2438699.24	1964 Oct 30 1751:52	X-15	-	3-36-59	Gear mod, BLN	-	-	NB-52-008	EAFB	RW04/22	HH	B3	25	-	EAFB
1964-A170	2438705.50	1964 Nov 6	X-15	-	2- C-58	-	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A	14	-	EAFB
1964-A172	2438715.50	1964 Nov 16	X-15	-	2- C-59	-	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A	14	-	EAFB
1964-A177	2438730.34	1964 Nov 30 2009:32	X-15	-	2-35-60	Gear mod, Stab,ST	-	-	NB-52-008	EAFB	RW04/22	HH	B2	26	-	EAFB RW18?
1964-A179	2438733.50	1964 Dec 4	X-15	-	1- A-80	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1?	14	-	EAFB
1964-A182	2438739.28	1964 Dec 9 1836:17	X-15	-	3-37-60	3D Flow Field,MA-45R	-	-	NB-52-008	EAFB	RW04/22	HH	B3	28	-	EAFB RW18?
1964-A184	2438740.30	1964 Dec 10 1910:26	X-15	-	1-51-81	IFDS/MIT/Air Den	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	34	-	EAFB
1964-A186	2438752.28	1964 Dec 22 1844:52	X-15	-	3-38-61	Friction,GE TPS.,3D	-	-	NB-52-003	EAFB	RW04/22	HH	B1	24	-	EAFB RW18
1965-A09	2438774.29	1965 Jan 13 1851:06	X-15	-	3-39-62	3D,HT,Fric,BLN	-	-	NB-52-003	EAFB	RW04/22	HH	B3	30	-	EAFB
1965-A14	2438786.50	1965 Jan 26	X-15	-	1- A-82	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A22	2438794.37	1965 Feb 2 2050:14	X-15	-	3-40-63	MA-25S TPS,MH-96,BLN	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	29	-	EAFB
1965-A28	2438806.50	1965 Feb 15	X-15	-	2- C-61	-	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A	14	-	EAFB
1965-A29	2438806.50	1965 Feb 15	X-15	-	2- C-62	-	-	-	NB-52	EAFB	RW04/22	EAFB	ROS A	14	-	EAFB
1965-A31	2438809.28	1965 Feb 17 1844:59	X-15	-	2-36-63	Stability	-	-	NB-52-008	EAFB	RW04/22	MUD	A	29	-	EAFB RW18
1965-A32	2438810.50	1965 Feb 19	X-15	-	1- A-83	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A35	2438816.50	1965 Feb 25	X-15	-	1- A-84	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A36	2438818.32	1965 Feb 26 1945:55	X-15	-	1-52-85	MIT/AirD/Sky Bright	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	46	-	EAFB RW18?
1965-A49	2438846.29	1965 Mar 26 1901:59	X-15	-	1-53-86	IR Scanner/IFDS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	31	-	EAFB RW18?
1965-A57	2438874.24	1965 Apr 23 1744:16	X-15	-	3-41-64	HT/Abl TPS/BLN	-	-	NB-52-008	EAFB	RW04/22	HH	B1	24	-	EAFB RW18?
1965-A59	2438879.31	1965 Apr 28 1926:20	X-15	-	2-37-64	Landing loads,Stab	-	-	NB-52-008	EAFB	RW04/22	HH	B1	28	-	EAFB RW18?
1965-A68	2438893.50	1965 May 13	X-15	-	2- A-65	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1965-A71	2438899.21	1965 May 18 1656:38	X-15	-	2-38-66	Stab, landing, ST	-	-	NB-52-008	EAFB	RW04/22	MUD	A	31	-	EAFB RW18?
1965-A65	2438891.50	1965 May 11	X-15	-	1- A-87	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1965-M10	2438906.22	1965 May 25 1712:07	X-15	-	1-54-88	IFDS/MIT/RAS Mod	-	-	NB-52-008	EAFB	RW04/22	MUD	A	54	-	EAFB RW18?
1965-M12	2438909.20	1965 May 28 1643:51	X-15	-	3-42-65	Radiometer/Scan/BLN	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	63	-	EAFB RW18?
1965-A80	2438915.50	1965 Jun 4	X-15	-	2- A-67	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1965-A81	2438919.50	1965 Jun 8	X-15	-	2- A-68	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1965-A82	2438922.50	1965 Jun 11	X-15	-	2- A-69	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1965-M20	2438928.23	1965 Jun 16 1726:33	X-15	-	3-43-66	Radiometer/BLN	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	74	-	EAFB RW18
1965-A85	2438929.19	1965 Jun 17 1640:31	X-15	-	1-55-89	IR Scanner, INS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	33	-	EAFB RW18?
1965-A88	2438934.20	1965 Jun 22 1644:43	X-15	-	2-39-70	Stability,ST,gear	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	47	-	EAFB RW18
1965-S392	2438941.22	1965 Jun 29 1721:17	X-15	-	3-44-67	LaRC Scan,Radiom,BLN	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	85	-	EAFB RW23?
1965-A95	2438943.50	1965 Jul 2	X-15	-	2- A-71	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-M22	2438950.18	1965 Jul 8 1616:55	X-15	-	2-40-72	ST,Landing,Alt	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	64	-	EAFB RW18?
1965-A99	2438954.50	1965 Jul 13	X-15	-	3- A-68	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A105	2438962.21	1965 Jul 20 1659:28	X-15	-	3-45-69	Bound.Layer Noise	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	32	-	EAFB RW18?
1965-A110	2438964.50	1965 Jul 23	X-15	-	1- A-90	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A113	2438968.50	1965 Jul 27	X-15	-	1- A-91	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A114	2438969.50	1965 Jul 28	X-15	-	1- A-92	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-M24	2438976.32	1965 Aug 3 1940:05	X-15	-	2-41-73	RAS,ST,Landing	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	63	-	EAFB
1965-A119	2438979.20	1965 Aug 6 1641:46	X-15	-	1-56-93	IR Scan,Stability	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	31	-	EAFB RW18?
1965-S461	2438983.27	1965 Aug 10 1824:21	X-15	-	3-46-70	Northrop Scan,BLN	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1A	82	-	EAFB RW18?
1965-A122	2438992.50	1965 Aug 20	X-15	-	1- A-94	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A124	2438996.50	1965 Aug 24	X-15	-	1- A-95	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-M25	2438998.20	1965 Aug 25 1654:46	X-15	-	1-57-96	MIT Scan,Stability	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	65	-	EAFB RW18?
1965-M26	2438999.20	1965 Aug 26 1652:12	X-15	-	3-47-71	Northrop Radiom,BLN	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	73	-	EAFB RW18?
1965-M27	2439006.19	1965 Sep 2 1640:05	X-15	-	2-42-74	RAS,ST,Landing	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	73	-	EAFB RW18?
1965-A130	2439013.21	1965 Sep 9 1655:50	X-15	-	1-58-97	IR scan,Abl TPS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	29	-	EAFB RW18?
1965-M28	2439018.21	1965 Sep 14 1701:06	X-15	-	3-48-72	N.Radiom,BLN	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	72	-	EAFB RW18?
1965-A134	2439026.25	1965 Sep 22 1758:39	X-15	-	1-59-98	IR Scan	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	30	-	EAFB
1965-S519	2439032.21	1965 Sep 28 1707:37	X-15	-	3-49-73	N.Scan/BLN/Tail	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1A	90	-	EAFB RW23?
1965-A139	2439034.20	1965 Sep 30 1643:55	X-15	-	1-60-99	IR Scan	-	-	NB-52-003	EAFB	RW04/22	HH	A2	23	-	EAFB
1965-A142	2439041.50	1965 Oct 8	X-15	-	1- A-100	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1965-A144	2439046.20	1965 Oct 12 1643:13	X-15	-	3-50-74	Checkout	-	-	NB-52-008	EAFB	RW04/22	HH	A2	28	-	EAFB
1965-S554	2439048.32	1965 Oct 14 1946:32	X-15	-	1-61-101	MIT,Pace transducer	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	81	-	EAFB RW18?
1965-M40	2439061.24	1965 Oct 27 1749:10	X-15	-	3-51-75	N.Scan/BLN	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1A	72	-	EAFB RW23?
1965-A152	2439066.50	1965 Nov 2	X-15	-	1- A-102	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1965-A155	2439068.21	1965 Nov 3 1709:10	X-15	-	2-43-75	External Tank Test	-	-	NB-52-003	EAFB	RW04/22	CUD	-	21	-	EAFB RW18?
1965-A157	2439069.22	1965 Nov 4 1711:31	X-15	-	1-62-103	Checkout	-	-	NB-52-008	EAFB	RW04/22	HH	A2	24	-	EAFB RW18?
1966-A52	2439228.50	1966 Apr 13	X-15	-	2- A-76	-	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB
1966-A53	2439235.50	1966 Apr 20	X-15	-	2- A-77	-	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1966-A64	2439250.50	1966 May 5	X-15	-	2- A-78	-	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB
1966-A65	2439252.35	1966 May 6 2030:12	X-15	-	1-63-104	AD/MuMet/Scan/SB	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	20	-	DDL RW18
1966-A67	2439264.23	1966 May 18 1724:00	X-15	-	2-44-79	V-On Stab	-	-	NB-52-003	EAFB	RW04/22	MUD	B	30	-	EAFB RW18?
1966-A73	2439278.50	1966 Jun 2	X-15	-	1- A-105	-	-	-	NB-52	EAFB	RW04/22	MUD	A?	14	-	EAFB
1966-A75	2439286.50	1966 Jun 10	X-15	-	1- A-106	-	-	-	NB-52	EAFB	RW04/22	MUD	A?	14	-	EAFB
1966-A79	2439296.50	1966 Jun 20	X-15	-	3- A-76	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A80	2439303.50	1966 Jun 27	X-15	-	2- C-80	External Tank Test	-	-	NB-52	EAFB	RW04/22	CUD	-	14	-	EAFB
1966-A83	2439308.25	1966 Jul 1 1802:36	X-15	-	2-45-81	External Tank Test	-	-	NB-52-008	EAFB	RW04/22	MUD	B	13	-	MUD
1966-A84	2439319.27	1966 Jul 12 1832:15	X-15	-	1-64-107	Checkout, Systems	-	-	NB-52-003	EAFB	RW04/22	MUD	A?	39	-	EAFB RW18
1966-A85	2439319.50	1966 Jul 13	X-15	-	3- A-77	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A87	2439325.28	1966 Jul 18 1838:24	X-15	-	3-52-78	Checkout, Systems	-	-	NB-52-003	EAFB	RW04/22	HH	A2	29	-	EAFB RW18?
1966-A88	2439326.50	1966 Jul 20	X-15	-	2- A-82	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1966-M27	2439328.29	1966 Jul 21 1902:03	X-15	-	2-46-83	Alt,ST,Abl TPS	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	58	-	EAFB RW18
1966-M29	2439335.21	1966 Jul 28 1701:12	X-15	-	1-65-108	MuMet/HS/SB/RAS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1?	73	-	EAFB
1966-M30	2439341.16	1966 Aug 3 1545:26	X-15	-	2-47-84	ST, Base drag	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	75	-	EAFB RW18?
1966-A91	2439342.20	1966 Aug 4 1654:43	X-15	-	3-53-79	Heat Tran,BLN,OBE	-	-	NB-52-008	EAFB	RW04/22	MUD	A	40	-	EAFB RW18?
1966-A94	2439346.50	1966 Aug 9	X-15	-	1- A-109	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1966-A97	2439347.50	1966 Aug 10	X-15	-	1- A-110	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1966-M31	2439349.20	1966 Aug 11 1644:13	X-15	-	1-66-111	HS,MuMet,SB,Gas	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	76	-	EAFB RW18
1966-M32	2439350.23	1966 Aug 12 1725:33	X-15	-	2-48-85	ST,Pitot,Base drag	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	70	-	EAFB RW18?
1966-M33	2439357.21	1966 Aug 19 1704:35	X-15	-	3-54-80	BLN,OBE,H	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	54	-	EAFB RW18?
1966-M34	2439363.20	1966 Aug 25 1649:11	X-15	-	1-67-112	HS/MuMet/Gas	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	78	-	EAFB RW18?
1966-A101	2439368.20	1966 Aug 30 1651:37	X-15	-	2-49-86	V-On,Maurer,TPS	-	-	NB-52-008	EAFB	RW04/22	MUD	A	31	-	EAFB RW18
1966-A102	2439377.24	1966 Sep 8 1739:16	X-15	-	1-68-113	HS/Elec loads	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	22	-	SRL RW22?
1966-A103	2439381.50	1966 Sep 13	X-15	-	3- A-81	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1966-M35	2439383.29	1966 Sep 14 1901:29	X-15	-	3-55-82	MuMet/Solar spec	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	77	-	EAFB
1966-A111	2439396.50	1966 Sep 28	X-15	-	1- A-114	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A114	2439402.50	1966 Oct 4	X-15	-	1- A-115	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A115	2439405.30	1966 Oct 6 1916:59	X-15	-	1-69-116	Checkout	-	-	NB-52-003	EAFB	RW04/22	HH	A2	23	-	CUD RW01/19?
1966-A116	2439405.50	1966 Oct 7	X-15	-	2- A-87	-	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB
1966-A123	2439417.50	1966 Oct 19	X-15	-	2- A-88	-	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB
1966-S579	2439431.39	1966 Nov 1 2124:12	X-15	-	3-56-83	MuMet/DCR/SB	-	-	NB-52-003	EAFB	RW04/22	SRL	LP1	93	-	EAFB RW18?
1966-A139	2439448.39	1966 Nov 18 2124:07	X-15	-	2-50-89	ET/TPS/Maurer/Mach 6	-	-	NB-52-008	EAFB	RW04/22	MUD	B	30	-	EAFB RW18?
1966-A138	2439447.50	1966 Nov 18	X-15	-	3- A-84	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A142	2439452.50	1966 Nov 23	X-15	-	3- A-85	-	-	-	NB-52	EAFB	RW04/22	HH	A2	14	-	EAFB
1966-A146	2439459.32	1966 Nov 29 1938:32	X-15	-	3-57-86	Checkout	-	-	NB-52-003	EAFB	RW04/22	HH	A2	28	-	EAFB RW18?
1966-A158	2439481.50	1966 Dec 22	X-15	-	2- C-90	-	-	-	NB-52	EAFB	RW04/22	CUD	-	14	-	EAFB
1967-A62	2439564.50	1967 Mar 15	X-15	-	1- A-117	-	-	-	NB-52	EAFB	RW04/22	MUD	A?	14	-	EAFB
1967-A65	2439570.50	1967 Mar 21	X-15	-	1- A-118	-	-	-	NB-52	EAFB	RW04/22	MUD	A	14	-	EAFB
1967-A66	2439572.24	1967 Mar 22 1752:04	X-15	-	1-70-119	Stab./Loads/ASAS	-	-	NB-52-003	EAFB	RW04/22	MUD	A	40	-	EAFB
1967-A70	2439600.50	1967 Apr 20	X-15	-	1- A-120	-	-	-	NB-52	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1967-A72	2439607.31	1967 Apr 26 1920:17	X-15	-	3-58-87	Telem/HT/Guidance	-	-	NB-52-008	EAFB	RW04/22	SIL	B	16	-	SIL RW13?
1967-M09	2439609.22	1967 Apr 28 1723:32	X-15	-	1-71-121	WTR/HS/E loads	-	-	NB-52-003	EAFB	RW04/22	DDL	LP1	50	-	EAFB
1967-A76	2439615.50	1967 May 5	X-15	-	2- A-91	-	-	-	NB-52	EAFB	RW04/22	HH	B1	14	-	EAFB
1967-A77	2439619.31	1967 May 8 1927:38	X-15	-	2-51-92	Ramjet flow	-	-	NB-52-008	EAFB	RW04/22	HH	B1	29	-	EAFB RW18
1967-A80	2439622.50	1967 May 12	X-15	-	3- A-88	-	-	-	NB-52	EAFB	RW04/22	SIL	B	14	-	EAFB
1967-A82	2439628.24	1967 May 17 1745:48	X-15	-	3-59-89	Telem/HT/Guidance	-	-	NB-52-003	EAFB	RW04/22	SIL	B	21	-	EAFB RW23?
1967-A87	2439635.50	1967 May 25	X-15	-	1- A-122	-	-	-	NB-52	EAFB	RW04/22	DDL	LP2	14	-	EAFB
1967-A90	2439642.50	1967 Jun 1	X-15	-	1- A-123	-	-	-	NB-52	EAFB	RW04/22	DDL	LP2	14	-	EAFB
1967-A91	2439655.50	1967 Jun 14	X-15	-	1- A-124	-	-	-	NB-52	EAFB	RW04/22	DDL	LP2	14	-	EAFB
1967-M13	2439657.26	1967 Jun 15 1809:28	X-15	-	1-72-125	HS/Stab/WTR	-	-	NB-52-003	EAFB	RW04/22	DDL	LP2	69	-	EAFB RW18?
1967-A93	2439664.41	1967 Jun 22 2157:17	X-15	-	3-60-90	HT/Telem	-	-	NB-52-008	EAFB	RW04/22	HH	B1	25	-	EAFB
1967-M14	2439671.27	1967 Jun 29 1827:51	X-15	-	1-73-126	WTR/HS/ASAS	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	52	-	MUD RW27?
1967-A98	2439692.22	1967 Jul 20 1711:00	X-15	-	3-61-91	HT/Guid/Telem	-	-	NB-52-008	EAFB	RW04/22	HH	B1	25	-	EAFB RW18?
1967-A102	2439709.50	1967 Aug 7	X-15	-	2- C-93	Ramjet flow	-	-	NB-52	EAFB	RW04/22	MUD	B	14	-	EAFB
1967-A105	2439713.50	1967 Aug 11	X-15	-	2- A-94	Ramjet flow	-	-	NB-52	EAFB	RW04/22	HH	B1	14	-	EAFB
1967-A106	2439718.50	1967 Aug 16	X-15	-	2- A-95	-	-	-	NB-52	EAFB	RW04/22	HH	B1	14	-	EAFB
1967-A109	2439724.25	1967 Aug 21 1759:16	X-15	-	2-52-96	Ramjet/Hycon/TPS	-	-	NB-52-008	EAFB	RW04/22	HH	B1	27	-	EAFB RW18
1967-A111	2439728.35	1967 Aug 25 2027:28	X-15	-	3-62-92	Guid/HT/BLN	-	-	NB-52-003	EAFB	RW04/22	HH	B1	25	-	EAFB RW18?
1967-A120	2439755.50	1967 Sep 22	X-15	-	3- A-93	-	-	-	NB-52	EAFB	RW04/22	SRL	LP1	14	-	EAFB
1967-A124	2439767.40	1967 Oct 3 2131:50	X-15	-	2-53-97	TPS/Ramjet/Mach 6.7	-	-	NB-52-008	EAFB	RW04/22	MUD	B	31	-	EAFB RW18
1967-M17	2439768.22	1967 Oct 4 1716:54	X-15	-	3-63-94	UV Plume/Solar/MM	-	-	NB-52-003	EAFB	RW04/22	SRL	LP1	76	-	EAFB RW18?
1967-S496	2439781.19	1967 Oct 17 1640:23	X-15	-	3-64-95	UVPL/Solar/MM	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	85	-	EAFB
1967-A134	2439794.50	1967 Oct 31	X-15	-	3- A-96	-	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	14	-	EAFB
1967-S535	2439810.27	1967 Nov 15 1830:07	X-15	-	3-65-97	UVPL/Solar/MM/SA TPS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP1	81	-	-
1968-A58	2439892.50	1968 Feb 6	X-15	-	1- C-127	-	-	-	NB-52-008	EAFB	RW04/22	EAFB	ROS B	14	-	EAFB
1968-A59	2439893.50	1968 Feb 7	X-15	-	1- A-128	-	-	-	NB-52-008	EAFB	RW04/22	HH	B1	14	-	EAFB
1968-A64	2439913.50	1968 Feb 27	X-15	-	1- A-129	-	-	-	NB-52-008	EAFB	RW04/22	HH	B1	14	-	EAFB
1968-A66	2439917.31	1968 Mar 1 1928:11	X-15	-	1-74-130	Checkout	-	-	NB-52-008	EAFB	RW04/22	HH	B1	31	-	EAFB
1968-A69	2439943.50	1968 Mar 28	X-15	-	1- A-131	-	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	14	-	EAFB
1968-A71	2439950.50	1968 Apr 4	X-15	-	1- A-132	-	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	14	-	EAFB
1968-M05	2439951.25	1968 Apr 4 1802:17	X-15	-	1-75-133	CO/WTR/SA TPS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	57	-	EAFB
1968-M06	2439973.33	1968 Apr 26 1951:49	X-15	-	1-76-134	SA TPS/HS	-	-	NB-52-008	EAFB	RW04/22	DDL	LP2	63	-	EAFB
1968-A80	2439999.50	1968 May 23	X-15	-	1- A-135	Fixed Alpha Ball/WTR	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	14	-	EAFB
1968-M14	2440020.15	1968 Jun 12 1531:01	X-15	-	1-77-136	WTR/SA TPS/HS/FAB	-	-	NB-52-008	EAFB	RW04/22	SRL	LP1	67	-	EAFB RW18?
1968-A84	2440052.50	1968 Jul 15	X-15	-	1- A-137	Fluidic Probe/etc	-	-	NB-52-003	EAFB	RW04/22	RRV	LP1	14	-	EAFB
1968-M15	2440054.43	1968 Jul 16 2223:06	X-15	-	1-78-138	WTR/HS/SB/FAB/FP	-	-	NB-52-003	EAFB	RW04/22	RRV	LP1	67	-	EAFB
1968-S467	2440090.17	1968 Aug 21 1604:48	X-15	-	1-79-139	WTR/HS/SB/FAB/FP	-	-	NB-52-003	EAFB	RW04/22	RRV	LP1	81	-	EAFB
1968-M21	2440113.26	1968 Sep 13 1819:23	X-15	-	1-80-140	WTR/HS/SB/FAB/FP	-	-	NB-52-003	EAFB	RW04/22	SRL	LP1	77	-	EAFB
1968-M25	2440154.21	1968 Oct 24 1702:47	X-15	-	1-81-141	WTR/HS/FAB/FP	-	-	NB-52-003	EAFB	RW04/22	SRL	LP1	77	-	EAFB
1968-A115	2440202.50	1968 Dec 12	X-15	-	1- A-142	-	-	-	NB-52-003	EAFB	RW04/22	RRV	LP1	14	-	EAFB

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1959-A46	2436638.24	1959 Mar 10 1750	X-15	1	1-C-1	0.000	NASA/AFFTC	YS	-	-	Test	Wire	Thompson	-
1959-A57	2436659.50	1959 Apr 1	X-15	1	1-A-2	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A60	2436669.18	1959 Apr 10 1624	X-15	1	1-A-3	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A80	2436709.50	1959 May 21	X-15	1	1-A-4	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A93	2436728.15	1959 Jun 8 1538:40	X-15	1	1-1-5	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1959-A120	2436773.50	1959 Jul 24	X-15	1	2-C-1	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1959-A157	2436816.06	1959 Sep 4 1323	X-15	1	2-A-2	0.000	NASA/AFFTC	YF	U	-	Test	Wire	Thompson	-
1959-A160	2436829.13	1959 Sep 17 1508:48	X-15	1	2-1-3	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1959-A172	2436851.50	1959 Oct 10	X-15	1	2-A-4	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A174	2436855.50	1959 Oct 14	X-15	1	2-A-5	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A175	2436859.26	1959 Oct 17 1813:07	X-15	1	2-2-6	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1959-A179	2436863.50	1959 Oct 22	X-15	1	2-A-7	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A186	2436872.50	1959 Oct 31	X-15	1	2-A-8	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1959-A188	2436878.24	1959 Nov 5 1739:28	X-15	1	2-3-9	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1959-A208	2436918.50	1959 Dec 16	X-15	1	1-A-6	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A18	2436957.51	1960 Jan 24 0017:05	X-15	1	1-2-7	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A31	2436968.50	1960 Feb 4	X-15	1	2-A-10	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A43	2436976.26	1960 Feb 11 1815:04	X-15	1	2-4-11	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A49	2436982.24	1960 Feb 17 1741:32	X-15	1	2-5-12	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A69	2437011.19	1960 Mar 17 1631:25	X-15	1	2-6-13	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A70	2437011.50	1960 Mar 18	X-15	1	2-A-14	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A76	2437019.49	1960 Mar 25 2343:23	X-15	1	1-3-8	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A78	2437023.25	1960 Mar 29 1759:28	X-15	1	2-7-15	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A90	2437025.20	1960 Mar 31 1642:05	X-15	1	2-8-16	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A97	2437038.22	1960 Apr 13 1715:11	X-15	1	1-4-9	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A101	2437044.20	1960 Apr 19 1651:44	X-15	1	1-5-10	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A115	2437059.50	1960 May 5	X-15	1	2-A-17	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A117	2437061.20	1960 May 6 1653:19	X-15	1	1-6-11	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A122	2437067.16	1960 May 12 1547:37	X-15	1	1-7-12	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A124	2437074.16	1960 May 19 1546:47	X-15	1	1-8-13	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A128	2437081.17	1960 May 26 1608:36	X-15	1	2-9-18	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A130	2437081.50	1960 May 27	X-15	1	1-A-14	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A141	2437088.50	1960 Jun 3	X-15	1	1-A-15	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A145	2437093.50	1960 Jun 8	X-15	1	1-A-16	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A190	2437151.17	1960 Aug 4 1559:13	X-15	1	1-9-17	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A197	2437157.50	1960 Aug 11	X-15	1	1-A-18	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A199	2437159.16	1960 Aug 12 1548:43	X-15	1	1-10-19	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A204	2437164.50	1960 Aug 18	X-15	1	1- A-20	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A205	2437166.15	1960 Aug 19 1534:22	X-15	1	1-11-21	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A215	2437179.50	1960 Sep 2	X-15	1	1- A-22	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A218	2437188.28	1960 Sep 10 1845:10	X-15	1	1-12-23	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A221	2437197.50	1960 Sep 20	X-15	1	1- A-24	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A229	2437201.20	1960 Sep 23 1652:06	X-15	1	1-13-25	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A241	2437218.50	1960 Oct 11	X-15	1	1- A-26	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A243	2437220.50	1960 Oct 13	X-15	1	2- A-19	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A247	2437228.23	1960 Oct 20 1730:27	X-15	1	1-14-27	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A253	2437236.24	1960 Oct 28 1743:56	X-15	1	1-15-28	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A256	2437242.50	1960 Nov 4	X-15	1	2- A-20	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1960-A257	2437243.36	1960 Nov 4 2043:33	X-15	1	1-16-29	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A264	2437254.25	1960 Nov 15 1759:00	X-15	-	2-10-21	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A268	2437256.36	1960 Nov 17 2043:07	X-15	1	1-17-30	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A272	2437261.39	1960 Nov 22 2125:55	X-15	-	2-11-22	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A283	2437269.28	1960 Nov 30 1842:43	X-15	1	1-18-31	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A291	2437275.48	1960 Dec 6 2329:30	X-15	-	2-12-23	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A295	2437278.33	1960 Dec 9 1952:40	X-15	1	1-19-32	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1960-A301	2437283.50	1960 Dec 15	X-15	1	1- A-33	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A19	2437310.50	1961 Jan 11	X-15	1	1- A-34	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A42	2437332.28	1961 Feb 1 1847:32	X-15	1	1-20-35	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A45	2437338.37	1961 Feb 7 2056:10	X-15	1	1-21-36	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A51	2437351.50	1961 Feb 21	X-15	-	2- A-24	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A53	2437354.50	1961 Feb 24	X-15	-	2- A-25	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A73	2437366.27	1961 Mar 7 1828:33	X-15	-	2-13-26	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A79	2437379.50	1961 Mar 21	X-15	-	2- A-27	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-M07	2437389.25	1961 Mar 30 1805:00	X-15	-	2-14-28	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A108	2437411.25	1961 Apr 21 1805:17	X-15	-	2-15-29	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A126	2437438.50	1961 May 19	X-15	-	2- A-30	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A130	2437445.30	1961 May 25 1916:35	X-15	-	2-16-31	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A154	2437470.50	1961 Jun 20	X-15	-	2- A-32	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A158	2437474.38	1961 Jun 23 2100:05	X-15	-	2-17-33	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A187	2437522.23	1961 Aug 10 1727:05	X-15	-	1-22-37	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A199	2437555.40	1961 Sep 12 2140:17	X-15	-	2-18-34	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A206	2437571.24	1961 Sep 28 1750:25	X-15	-	2-19-35	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A207	2437571.50	1961 Sep 29	X-15	-	1- A-38	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A215	2437576.28	1961 Oct 3 1840:50	X-15	-	1-23-39	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-M29	2437584.35	1961 Oct 11 2020:00	X-15	-	2-20-36	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A220	2437590.29	1961 Oct 17 1857:33	X-15	-	1-24-40	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A227	2437599.50	1961 Oct 27	X-15	-	1- A-41	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A231	2437605.50	1961 Nov 2	X-15	-	1- A-42	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A232	2437606.50	1961 Nov 3	X-15	-	1- A-43	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A233	2437613.25	1961 Nov 9 1757:17	X-15	-	2-21-37	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1961-A249	2437652.50	1961 Dec 19	X-15	-	3-A-1	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1961-A250	2437654.45	1961 Dec 20 2245:50	X-15	-	3-1-2	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A05	2437675.35	1962 Jan 10 2028:16	X-15	-	1-25-44	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A09	2437682.33	1962 Jan 17 2000:34	X-15	-	3-2-3	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A39	2437752.50	1962 Mar 29	X-15	-	3-A-4	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A41	2437753.50	1962 Mar 30	X-15	-	3-A-5	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1962-A44	2437754.50	1962 Mar 31	X-15	-	3-A-6	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-M04	2437760.25	1962 Apr 5 1804:25	X-15	-	3-3-7	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A53	2437772.50	1962 Apr 18	X-15	-	1- A-45	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A56	2437774.25	1962 Apr 19 1802:20	X-15	-	1-26-46	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-M05	2437775.31	1962 Apr 20 1926:58	X-15	-	3-4-8	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A60	2437779.50	1962 Apr 25	X-15	-	2- A-38	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A61	2437780.50	1962 Apr 26	X-15	-	2- A-39	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A62	2437781.50	1962 Apr 27	X-15	-	1- A-47	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-M06	2437785.22	1962 Apr 30 1723:20	X-15	-	1-27-48	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A65	2437786.50	1962 May 2	X-15	-	(3-C)	0.000	NASA/AFFTC	YS	-	-	Demo	Jenkins-Landis	-	-
1962-A70	2437789.50	1962 May 5	X-15	-	(3-C)	0.000	NASA/AFFTC	YS	-	-	Demo	Jenkins-Landis	-	-
1962-A71	2437789.50	1962 May 5	X-15	-	(3-C)	0.000	NASA/AFFTC	YS	-	-	Demo	Jenkins-Landis	-	-
1962-A73	2437793.21	1962 May 8 1701:28	X-15	-	2-22-40	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A80	2437807.21	1962 May 22 1704:46	X-15	-	1-28-49	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A84	2437809.50	1962 May 25	X-15	-	2- A-41	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A87	2437813.50	1962 May 29	X-15	-	2- A-42	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A90	2437817.24	1962 Jun 1 1751:15	X-15	-	2-23-43	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A94	2437823.23	1962 Jun 7 1729:20	X-15	-	1-29-50	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-M10	2437828.29	1962 Jun 12 1904:00	X-15	-	3-5-9	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-M11	2437837.20	1962 Jun 21 1647:05	X-15	-	3-6-10	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A101	2437843.34	1962 Jun 27 2008:10	X-15	-	1-30-51	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A104	2437845.24	1962 Jun 29 1741:47	X-15	-	2-24-44	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A108	2437855.50	1962 Jul 10	X-15	-	3-A-11	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A109	2437856.50	1962 Jul 11	X-15	-	3-A-12	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A112	2437861.50	1962 Jul 16	X-15	-	3-A-13	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A113	2437862.38	1962 Jul 16 2109:25	X-15	-	1-31-52	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-S244	2437863.19	1962 Jul 17 1631:10	X-15	-	3-7-14	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A114	2437865.20	1962 Jul 19 1653:45	X-15	-	2-25-45	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A116	2437872.27	1962 Jul 26 1822:30	X-15	-	1-32-53	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A126	2437877.50	1962 Aug 1	X-15	-	3-A-15	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A128	2437879.21	1962 Aug 2 1656:15	X-15	-	3-8-16	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A131	2437885.21	1962 Aug 8 1708:35	X-15	-	2-26-46	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A135	2437886.50	1962 Aug 10	X-15	-	3-A-17	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-M18	2437891.24	1962 Aug 14 1741:35	X-15	-	3-9-18	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A142	2437897.21	1962 Aug 20 1708:40	X-15	-	2-27-47	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A145	2437906.23	1962 Aug 29 1736:03	X-15	-	2-28-48	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A159	2437934.50	1962 Sep 27	X-15	-	2- A-49	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A161	2437936.21	1962 Sep 28 1704:55	X-15	-	2-29-50	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A165	2437942.22	1962 Oct 4 1710:11	X-15	-	3-10-19	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A168	2437947.25	1962 Oct 9 1758:32	X-15	-	2-30-51	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A177	2437961.27	1962 Oct 23 1830:40	X-15	-	3-11-20	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1962-A193	2437978.27	1962 Nov 9 1823:07	X-15	-	2-31-52	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1962-A222	2438011.50	1962 Dec 13	X-15	-	3- A-21	0.000	NASA/AFFTC	YF	U	-	Test/UV Astron	Thompson	-	-
1962-A225	2438013.28	1962 Dec 14 1844:07	X-15	-	3-12-22	0.000	NASA/AFFTC	YS	-	-	Test/UV Astron	Thompson	-	-
1962-A232	2438019.31	1962 Dec 20 1925:04	X-15	-	3-13-23	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1963-S14	2438047.29	1963 Jan 17 1859:37	X-15	-	3-14-24	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A53	2438131.25	1963 Apr 11 1803:20	X-15	-	1-33-54	0.000	NASA/AFFTC	YS	-	-	Test/Imaging	Thompson	-	-
1963-A60	2438138.34	1963 Apr 18 2016:17	X-15	-	3-15-25	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A66	2438145.42	1963 Apr 25 2204:19	X-15	-	1-34-55	0.000	NASA/AFFTC	YS	-	-	Imaging	Thompson	-	-
1963-M28	2438152.21	1963 May 2 1659:54	X-15	-	3-16-26	0.000	NASA/AFFTC	YS	-	-	Test/UV Ast/Tech	Thompson	-	-
1963-A73	2438159.50	1963 May 10	X-15	-	3- A-27	0.000	NASA/AFFTC	YF	U	-	Test/UV Ast/Tech	Thompson	-	-
1963-A74	2438164.30	1963 May 14 1911:56	X-15	-	3-17-28	0.000	NASA/AFFTC	YS	-	-	Test/UV Ast/Tech	Thompson	-	-
1963-A76	2438165.24	1963 May 15 1750:46	X-15	-	1-35-56	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A83	2438179.24	1963 May 29 1743:22	X-15	-	3-18-29	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1963-M33	2438199.23	1963 Jun 18 1734:21	X-15	-	3-19-30	0.000	NASA/AFFTC	YS	-	-	Test/UV Ast	Thompson	-	-
1963-A95	2438206.20	1963 Jun 25 1653:50	X-15	-	1-36-57	0.000	NASA/AFFTC	YS	-	-	Tech	Thompson	-	-
1963-S304	2438208.21	1963 Jun 27 1656:03	X-15	-	3-20-31	0.000	NASA/AFFTC	YS	-	-	Test/UV Ast/Tech	Thompson	-	-
1963-A103	2438213.50	1963 Jul 3	X-15	-	1- A-58	0.000	NASA/AFFTC	YF	U	-	Tech/Test	Thompson	-	-
1963-M36	2438220.30	1963 Jul 9 1912:12	X-15	-	1-37-59	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1963-A106	2438227.50	1963 Jul 17	X-15	-	1- A-60	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1963-A108	2438229.21	1963 Jul 18 1707:20	X-15	-	1-38-61	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1963-S344	2438230.22	1963 Jul 19 1720:05	X-15	-	3-21-32	0.000	NASA/AFFTC	YS	-	-	Test/Tech/UV Ast	Thompson	-	-
1963-A117	2438247.50	1963 Aug 6	X-15	-	3- A-33	0.000	NASA/AFFTC	YF	U	-	Test/Aeron	Thompson	-	-
1963-A119	2438254.50	1963 Aug 13	X-15	-	3- A-34	0.000	NASA/AFFTC	YF	U	-	Test/Aeron	Thompson	-	-
1963-A120	2438256.50	1963 Aug 15	X-15	-	3- A-35	0.000	NASA/AFFTC	YF	U	-	Test/Aeron	Thompson	-	-
1963-S401	2438264.21	1963 Aug 22 1705:57	X-15	-	3-22-36	0.000	NASA/AFFTC	YS	-	-	Test/Aeron	Thompson	-	-
1963-A138	2438306.50	1963 Oct 4	X-15	-	1- A-62	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1963-A141	2438310.31	1963 Oct 7 1922:56	X-15	-	1-39-63	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A146	2438316.50	1963 Oct 14	X-15	-	3- A-37	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1963-A152	2438332.32	1963 Oct 29 1942:34	X-15	-	1-40-64	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A151	2438327.50	1963 Oct 25	X-15	-	3- A-38	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1963-A166	2438341.26	1963 Nov 7 1811:14	X-15	-	3-23-39	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1963-A169	2438348.31	1963 Nov 14 1919:21	X-15	-	1-41-65	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1963-A173	2438352.50	1963 Nov 19	X-15	-	3- A-40	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1963-A176	2438361.35	1963 Nov 27 2017:40	X-15	-	3-24-41	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1963-A178	2438366.50	1963 Dec 3	X-15	-	1- A-66	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1963-A181	2438369.29	1963 Dec 5 1904:36	X-15	-	1-42-67	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1963-A186	2438381.50	1963 Dec 18	X-15	-	1- A-68	0.000	NASA/AFFTC	YF	U	-	Tech	Thompson	-	-
1964-A02	2438403.34	1964 Jan 8 2010:31	X-15	-	1-43-69	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A05	2438411.25	1964 Jan 16 1803:30	X-15	-	3-25-42	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A14	2438423.34	1964 Jan 28 2011:36	X-15	-	1-44-70	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A25	2438445.25	1964 Feb 19 1757:24	X-15	-	3-26-43	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A34	2438468.24	1964 Mar 13 1746:27	X-15	-	3-27-44	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A37	2438471.50	1964 Mar 17	X-15	-	1- A-71	0.000	NASA/AFFTC	YF	U	-	Tech	Thompson	-	-
1964-A44	2438482.26	1964 Mar 27 1810:18	X-15	-	1-45-72	0.000	NASA/AFFTC	YS	-	-	Tech	Thompson	-	-
1964-A46	2438485.50	1964 Mar 31	X-15	-	3- A-45	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1964-M08	2438494.25	1964 Apr 8 1802:27	X-15	-	1-46-73	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1964-A61	2438515.21	1964 Apr 29 1700:27	X-15	-	1-47-74	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1964-A66	2438526.50	1964 May 11	X-15	-	3- A-46	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A67	2438528.20	1964 May 12 1651:46	X-15	-	3-28-47	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-M10	2438535.23	1964 May 19 1726:28	X-15	-	1-48-75	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1964-A72	2438537.19	1964 May 21 1639:34	X-15	-	3-29-48	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A87	2438561.50	1964 Jun 15	X-15	-	2- C-53	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A91	2438569.50	1964 Jun 23	X-15	-	2- A-54	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A93	2438572.19	1964 Jun 25 1634:47	X-15	-	2-32-55	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A83	2438557.50	1964 Jun 11	X-15	-	1- A-76	0.000	NASA/AFFTC	YF	U	-	Tech/Test	Thompson	-	-
1964-A99	2438577.20	1964 Jun 30 1649:40	X-15	-	1-49-77	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1964-A100	2438578.50	1964 Jul 2	X-15	-	3- A-49	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-M15	2438585.34	1964 Jul 8 2002:52	X-15	-	3-30-50	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A110	2438604.50	1964 Jul 28	X-15	-	3- A-51	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A114	2438606.29	1964 Jul 29 1855:19	X-15	-	3-31-52	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A120	2438620.22	1964 Aug 12 1712:33	X-15	-	3-32-53	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A121	2438622.20	1964 Aug 14 1654:19	X-15	-	2-33-56	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A125	2438634.24	1964 Aug 26 1742:07	X-15	-	3-33-54	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A128	2438642.20	1964 Sep 3 1654:54	X-15	-	3-34-55	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A135	2438661.50	1964 Sep 23	X-15	-	3- A-56	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1964-A136	2438667.34	1964 Sep 28 2016:00	X-15	-	3-35-57	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1964-A140	2438668.33	1964 Sep 29 2000:13	X-15	-	2-34-57	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A147	2438670.50	1964 Oct 2	X-15	-	1- A-78	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A152	2438684.34	1964 Oct 15 2015:40	X-15	-	1-50-79	0.000	NASA/AFFTC	YS	-	-	Test/Aeron	Thompson	-	-
1964-A158	2438697.50	1964 Oct 29	X-15	-	3- C-58	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A159	2438699.24	1964 Oct 30 1751:52	X-15	-	3-36-59	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A170	2438705.50	1964 Nov 6	X-15	-	2- C-58	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A172	2438715.50	1964 Nov 16	X-15	-	2- C-59	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A177	2438730.34	1964 Nov 30 2009:32	X-15	-	2-35-60	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1964-A179	2438733.50	1964 Dec 4	X-15	-	1- A-80	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1964-A182	2438739.28	1964 Dec 9 1836:17	X-15	-	3-37-60	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1964-A184	2438740.30	1964 Dec 10 1910:26	X-15	-	1-51-81	0.000	NASA/AFFTC	YS	-	-	Test/Aeron	Thompson	-	-
1964-A186	2438752.28	1964 Dec 22 1844:52	X-15	-	3-38-61	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1965-A09	2438774.29	1965 Jan 13 1851:06	X-15	-	3-39-62	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A14	2438786.50	1965 Jan 26	X-15	-	1- A-82	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A22	2438794.37	1965 Feb 2 2050:14	X-15	-	3-40-63	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1965-A28	2438806.50	1965 Feb 15	X-15	-	2- C-61	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A29	2438806.50	1965 Feb 15	X-15	-	2- C-62	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A31	2438809.28	1965 Feb 17 1844:59	X-15	-	2-36-63	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A32	2438810.50	1965 Feb 19	X-15	-	1- A-83	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A35	2438816.50	1965 Feb 25	X-15	-	1- A-84	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A36	2438818.32	1965 Feb 26 1945:55	X-15	-	1-52-85	0.000	NASA/AFFTC	YS	-	-	Aeron	Thompson	-	-
1965-A49	2438846.29	1965 Mar 26 1901:59	X-15	-	1-53-86	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1965-A57	2438874.24	1965 Apr 23 1744:16	X-15	-	3-41-64	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1965-A59	2438879.31	1965 Apr 28 1926:20	X-15	-	2-37-64	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A68	2438893.50	1965 May 13	X-15	-	2- A-65	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A71	2438899.21	1965 May 18 1656:38	X-15	-	2-38-66	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A65	2438891.50	1965 May 11	X-15	-	1- A-87	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-M10	2438906.22	1965 May 25 1712:07	X-15	-	1-54-88	0.000	NASA/AFFTC	YS	-	-	Tech/Test	Thompson	-	-
1965-M12	2438909.20	1965 May 28 1643:51	X-15	-	3-42-65	0.000	NASA/AFFTC	YS	-	-	Test/Aeron	Thompson	-	-
1965-A80	2438915.50	1965 Jun 4	X-15	-	2- A-67	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A81	2438919.50	1965 Jun 8	X-15	-	2- A-68	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A82	2438922.50	1965 Jun 11	X-15	-	2- A-69	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-M20	2438928.23	1965 Jun 16 1726:33	X-15	-	3-43-66	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A85	2438929.19	1965 Jun 17 1640:31	X-15	-	1-55-89	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A88	2438934.20	1965 Jun 22 1644:43	X-15	-	2-39-70	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-S392	2438941.22	1965 Jun 29 1721:17	X-15	-	3-44-67	0.000	NASA/AFFTC	YS	-	-	Test/Aeron	Thompson	-	-
1965-A95	2438943.50	1965 Jul 2	X-15	-	2- A-71	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-M22	2438950.18	1965 Jul 8 1616:55	X-15	-	2-40-72	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A99	2438954.50	1965 Jul 13	X-15	-	3- A-68	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A105	2438962.21	1965 Jul 20 1659:28	X-15	-	3-45-69	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A110	2438964.50	1965 Jul 23	X-15	-	1- A-90	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A113	2438968.50	1965 Jul 27	X-15	-	1- A-91	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A114	2438969.50	1965 Jul 28	X-15	-	1- A-92	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-M24	2438976.32	1965 Aug 3 1940:05	X-15	-	2-41-73	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A119	2438979.20	1965 Aug 6 1641:46	X-15	-	1-56-93	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-S461	2438983.27	1965 Aug 10 1824:21	X-15	-	3-46-70	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A122	2438992.50	1965 Aug 20	X-15	-	1- A-94	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A124	2438996.50	1965 Aug 24	X-15	-	1- A-95	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-M25	2438998.20	1965 Aug 25 1654:46	X-15	-	1-57-96	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-M26	2438999.20	1965 Aug 26 1652:12	X-15	-	3-47-71	0.000	NASA/AFFTC	YS	-	-	Test/Aeron?	Thompson	-	-
1965-M27	2439006.19	1965 Sep 2 1640:05	X-15	-	2-42-74	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A130	2439013.21	1965 Sep 9 1655:50	X-15	-	1-58-97	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-M28	2439018.21	1965 Sep 14 1701:06	X-15	-	3-48-72	0.000	NASA/AFFTC	YS	-	-	Test/Aeron?	Thompson	-	-
1965-A134	2439026.25	1965 Sep 22 1758:39	X-15	-	1-59-98	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-S519	2439032.21	1965 Sep 28 1707:37	X-15	-	3-49-73	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A139	2439034.20	1965 Sep 30 1643:55	X-15	-	1-60-99	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A142	2439041.50	1965 Oct 8	X-15	-	1- A-100	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A144	2439046.20	1965 Oct 12 1643:13	X-15	-	3-50-74	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-S554	2439048.32	1965 Oct 14 1946:32	X-15	-	1-61-101	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-M40	2439061.24	1965 Oct 27 1749:10	X-15	-	3-51-75	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A152	2439066.50	1965 Nov 2	X-15	-	1- A-102	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1965-A155	2439068.21	1965 Nov 3 1709:10	X-15	-	2-43-75	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1965-A157	2439069.22	1965 Nov 4 1711:31	X-15	-	1-62-103	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A52	2439228.50	1966 Apr 13	X-15	-	2- A-76	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A53	2439235.50	1966 Apr 20	X-15	-	2- A-77	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1966-A64	2439250.50	1966 May 5	X-15	-	2- A-78	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A65	2439252.35	1966 May 6 2030:12	X-15	-	1-63-104	0.000	NASA/AFFTC	YF	U	-	Aeron/Meteor/Tech	Thompson	-	-
1966-A67	2439264.23	1966 May 18 1724:00	X-15	-	2-44-79	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A73	2439278.50	1966 Jun 2	X-15	-	1- A-105	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A75	2439286.50	1966 Jun 10	X-15	-	1- A-106	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A79	2439296.50	1966 Jun 20	X-15	-	3- A-76	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A80	2439303.50	1966 Jun 27	X-15	-	2- C-80	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A83	2439308.25	1966 Jul 1 1802:36	X-15	-	2-45-81	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A84	2439319.27	1966 Jul 12 1832:15	X-15	-	1-64-107	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A85	2439319.50	1966 Jul 13	X-15	-	3- A-77	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A87	2439325.28	1966 Jul 18 1838:24	X-15	-	3-52-78	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A88	2439326.50	1966 Jul 20	X-15	-	2- A-82	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-M27	2439328.29	1966 Jul 21 1902:03	X-15	-	2-46-83	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-M29	2439335.21	1966 Jul 28 1701:12	X-15	-	1-65-108	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Aeron	Thompson	-	-
1966-M30	2439341.16	1966 Aug 3 1545:26	X-15	-	2-47-84	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A91	2439342.20	1966 Aug 4 1654:43	X-15	-	3-53-79	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1966-A94	2439346.50	1966 Aug 9	X-15	-	1- A-109	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A97	2439347.50	1966 Aug 10	X-15	-	1- A-110	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-M31	2439349.20	1966 Aug 11 1644:13	X-15	-	1-66-111	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Aeron	Thompson	-	-
1966-M32	2439350.23	1966 Aug 12 1725:33	X-15	-	2-48-85	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-M33	2439357.21	1966 Aug 19 1704:35	X-15	-	3-54-80	0.000	NASA/AFFTC	YS	-	-	Test/Aeron?	Thompson	-	-
1966-M34	2439363.20	1966 Aug 25 1649:11	X-15	-	1-67-112	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Aeron	Thompson	-	-
1966-A101	2439368.20	1966 Aug 30 1651:37	X-15	-	2-49-86	0.000	NASA/AFFTC	YS	-	-	Test/Tech/UV Ast	Thompson	-	-
1966-A102	2439377.24	1966 Sep 8 1739:16	X-15	-	1-68-113	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A103	2439381.50	1966 Sep 13	X-15	-	3- A-81	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-M35	2439383.29	1966 Sep 14 1901:29	X-15	-	3-55-82	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Solar	Thompson	-	-
1966-A111	2439396.50	1966 Sep 28	X-15	-	1- A-114	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A114	2439402.50	1966 Oct 4	X-15	-	1- A-115	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A115	2439405.30	1966 Oct 6 1916:59	X-15	-	1-69-116	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A116	2439405.50	1966 Oct 7	X-15	-	2- A-87	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A123	2439417.50	1966 Oct 19	X-15	-	2- A-88	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-S579	2439431.39	1966 Nov 1 2124:12	X-15	-	3-56-83	0.000	NASA/AFFTC	YS	-	-	Meteor/Aeron	Thompson	-	-
1966-A139	2439448.39	1966 Nov 18 2124:07	X-15	-	2-50-89	0.000	NASA/AFFTC	YS	-	-	Test/UV Ast	Thompson	-	-
1966-A138	2439447.50	1966 Nov 18	X-15	-	3- A-84	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A142	2439452.50	1966 Nov 23	X-15	-	3- A-85	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1966-A146	2439459.32	1966 Nov 29 1938:32	X-15	-	3-57-86	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1966-A158	2439481.50	1966 Dec 22	X-15	-	2- C-90	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A62	2439564.50	1967 Mar 15	X-15	-	1- A-117	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A65	2439570.50	1967 Mar 21	X-15	-	1- A-118	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A66	2439572.24	1967 Mar 22 1752:04	X-15	-	1-70-119	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A70	2439600.50	1967 Apr 20	X-15	-	1- A-120	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A72	2439607.31	1967 Apr 26 1920:17	X-15	-	3-58-87	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-M09	2439609.22	1967 Apr 28 1723:32	X-15	-	1-71-121	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1967-A76	2439615.50	1967 May 5	X-15	-	2- A-91	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A77	2439619.31	1967 May 8 1927:38	X-15	-	2-51-92	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A80	2439622.50	1967 May 12	X-15	-	3- A-88	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A82	2439628.24	1967 May 17 1745:48	X-15	-	3-59-89	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A87	2439635.50	1967 May 25	X-15	-	1- A-122	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A90	2439642.50	1967 Jun 1	X-15	-	1- A-123	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A91	2439655.50	1967 Jun 14	X-15	-	1- A-124	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-M13	2439657.26	1967 Jun 15 1809:28	X-15	-	1-72-125	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1967-A93	2439664.41	1967 Jun 22 2157:17	X-15	-	3-60-90	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-M14	2439671.27	1967 Jun 29 1827:51	X-15	-	1-73-126	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1967-A98	2439692.22	1967 Jul 20 1711:00	X-15	-	3-61-91	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A102	2439709.50	1967 Aug 7	X-15	-	2- C-93	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A105	2439713.50	1967 Aug 11	X-15	-	2- A-94	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A106	2439718.50	1967 Aug 16	X-15	-	2- A-95	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A109	2439724.25	1967 Aug 21 1759:16	X-15	-	2-52-96	0.000	NASA/AFFTC	YS	-	-	Test/Imaging?	Thompson	-	-
1967-A111	2439728.35	1967 Aug 25 2027:28	X-15	-	3-62-92	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-A120	2439755.50	1967 Sep 22	X-15	-	3- A-93	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-A124	2439767.40	1967 Oct 3 2131:50	X-15	-	2-53-97	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1967-M17	2439768.22	1967 Oct 4 1716:54	X-15	-	3-63-94	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Solar	Thompson	-	-
1967-S496	2439781.19	1967 Oct 17 1640:23	X-15	-	3-64-95	0.000	NASA/AFFTC	YS	-	-	Tech/Meteor/Solar	Thompson	-	-
1967-A134	2439794.50	1967 Oct 31	X-15	-	3- A-96	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1967-S535	2439810.27	1967 Nov 15 1830:07	X-15	-	3-65-97	0.000	NASA/AFFTC	YF	U	-	Tech/Meteor/Solar	Thompson	-	-
1968-A58	2439892.50	1968 Feb 6	X-15	-	1- C-127	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1968-A59	2439893.50	1968 Feb 7	X-15	-	1- A-128	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1968-A64	2439913.50	1968 Feb 27	X-15	-	1- A-129	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1968-A66	2439917.31	1968 Mar 1 1928:11	X-15	-	1-74-130	0.000	NASA/AFFTC	YS	-	-	Test	Thompson	-	-
1968-A69	2439943.50	1968 Mar 28	X-15	-	1- A-131	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1968-A71	2439950.50	1968 Apr 4	X-15	-	1- A-132	0.000	NASA/AFFTC	YF	U	-	Test	Thompson	-	-
1968-M05	2439951.25	1968 Apr 4 1802:17	X-15	-	1-75-133	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1968-M06	2439973.33	1968 Apr 26 1951:49	X-15	-	1-76-134	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1968-A80	2439999.50	1968 May 23	X-15	-	1- A-135	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1968-M14	2440020.15	1968 Jun 12 1531:01	X-15	-	1-77-136	0.000	NASA/AFFTC	YS	-	-	Test/Tech	Thompson	-	-
1968-A84	2440052.50	1968 Jul 15	X-15	-	1- A-137	0.000	NASA/AFFTC	YF	U	-	Test/Tech	Thompson	-	-
1968-M15	2440054.43	1968 Jul 16 2223:06	X-15	-	1-78-138	0.000	NASA/AFFTC	YS	-	-	Test/Tech/Aeron	Thompson	-	-
1968-S467	2440090.17	1968 Aug 21 1604:48	X-15	-	1-79-139	0.000	NASA/AFFTC	YS	-	-	Test/Tech/Aeron	Thompson	-	-
1968-M21	2440113.26	1968 Sep 13 1819:23	X-15	-	1-80-140	0.000	NASA/AFFTC	YS	-	-	Test/Tech/Aeron	Thompson	-	-
1968-M25	2440154.21	1968 Oct 24 1702:47	X-15	-	1-81-141	0.000	NASA/AFFTC	YS	-	-	Test/Tech/Aeron	Thompson	-	-
1968-A115	2440202.50	1968 Dec 12	X-15	-	1- A-142	0.000	NASA/AFFTC	YF	U	-	Test/Tech/Aeron	Thompson	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1955-A542	2435251.50	1955 May 24	X-7A-3	-	83	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A659	2435261.50	1955 Jun 3	X-7A-3	?	36	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A660	2435279.50	1955 Jun 21	X-7A-3	?	36	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A661	2435302.50	1955 Jul 14	X-7A-3	?	TV-13	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A662	2435330.50	1955 Aug 11	X-7A-3	?	38	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A663	2435344.50	1955 Aug 25	X-7A-3	?	39	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A637	2435357.50	1955 Sep 7	X-7A-3	?	40	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A638	2435359.50	1955 Sep 9	X-7A-3	?	2	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A639	2435362.50	1955 Sep 12	X-7A-3	?	2	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A640	2435370.50	1955 Sep 20	X-7A-3	?	47	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A641	2435377.50	1955 Sep 27	X-7A-3	?	1B	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A642	2435380.50	1955 Sep 30	X-7A-3	?	3	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A643	2435393.50	1955 Oct 13	X-7A-3	?	42	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A644	2435398.50	1955 Oct 18	X-7A-3	?	42TV10/6	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A645	2435408.50	1955 Oct 28	X-7A-3	?	11	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A646	2435420.50	1955 Nov 9	X-7A-3	?	GTV-2	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A647	2435429.50	1955 Nov 18	X-7A-3	?	45	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A648	2435442.50	1955 Dec 1	X-7A-3	?	GTV-2-3	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A649	2435447.50	1955 Dec 6	X-7A-3	?	46	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A650	2435449.50	1955 Dec 8	X-7A-3	?	16	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A651	2435454.50	1955 Dec 13	X-7A-3	?	01	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A652	2435461.50	1955 Dec 20	X-7A-3	?	47	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A653	2435463.50	1955 Dec 22	X-7A-3	?	2	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1955-A654	2435464.50	1955 Dec 23	X-7A-3	?	3	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A341	2435485.50	1956 Jan 13	X-7A-3	?	48-TV18-1	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A342	2435513.50	1956 Feb 10	X-7A-3	?	49	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A343	2435541.50	1956 Mar 9	X-7A-3	?	50	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A344	2435553.50	1956 Mar 21	X-7A-3	?	TV-16	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A345	2435685.50	1956 Jul 31	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A346	2435703.50	1956 Aug 18	X-7B	-	F-191	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A347	2435703.50	1956 Aug 18	X-7B	-	F-243	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A348	2435703.50	1956 Aug 18	X-7B	-	F-192	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A349	2435703.50	1956 Aug 18	X-7B	-	F-190	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A350	2435764.50	1956 Oct 18	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A351	2435777.50	1956 Oct 31	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A352	2435786.50	1956 Nov 9	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A353	2435807.50	1956 Nov 30	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A354	2435813.50	1956 Dec 6	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1956-A355	2435828.50	1956 Dec 21	X-7A-3	?	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-
1960-A328	2437135.50	1960 Jul 20	X-7A-3	-	-	-	-	-	B-50D-068	HADC	RW07/25?	WS	LP1	10?	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Launch Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1955-A542	2435251.50	1955 May 24	X-7A-3	-	83	0.000	WADD?	AS	-	-	Test	wsmr-history.org	X-Planes	-
1955-A659	2435261.50	1955 Jun 3	X-7A-3	?	36	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A660	2435279.50	1955 Jun 21	X-7A-3	?	36	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A661	2435302.50	1955 Jul 14	X-7A-3	?	TV-13	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A662	2435330.50	1955 Aug 11	X-7A-3	?	38	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A663	2435344.50	1955 Aug 25	X-7A-3	?	39	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A637	2435357.50	1955 Sep 7	X-7A-3	?	40	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A638	2435359.50	1955 Sep 9	X-7A-3	?	2	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A639	2435362.50	1955 Sep 12	X-7A-3	?	2	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A640	2435370.50	1955 Sep 20	X-7A-3	?	47	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A641	2435377.50	1955 Sep 27	X-7A-3	?	1B	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A642	2435380.50	1955 Sep 30	X-7A-3	?	3	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A643	2435393.50	1955 Oct 13	X-7A-3	?	42	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A644	2435398.50	1955 Oct 18	X-7A-3	?	42TV10/6	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A645	2435408.50	1955 Oct 28	X-7A-3	?	11	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A646	2435420.50	1955 Nov 9	X-7A-3	?	GTV-2	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A647	2435429.50	1955 Nov 18	X-7A-3	?	45	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A648	2435442.50	1955 Dec 1	X-7A-3	?	GTV-2-3	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A649	2435447.50	1955 Dec 6	X-7A-3	?	46	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A650	2435449.50	1955 Dec 8	X-7A-3	?	16	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A651	2435454.50	1955 Dec 13	X-7A-3	?	01	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A652	2435461.50	1955 Dec 20	X-7A-3	?	47	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A653	2435463.50	1955 Dec 22	X-7A-3	?	2	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1955-A654	2435464.50	1955 Dec 23	X-7A-3	?	3	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A341	2435485.50	1956 Jan 13	X-7A-3	?	48-TV18-1	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A342	2435513.50	1956 Feb 10	X-7A-3	?	49	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A343	2435541.50	1956 Mar 9	X-7A-3	?	50	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A344	2435553.50	1956 Mar 21	X-7A-3	?	TV-16	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A345	2435685.50	1956 Jul 31	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A346	2435703.50	1956 Aug 18	X-7B	-	F-191	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A347	2435703.50	1956 Aug 18	X-7B	-	F-243	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A348	2435703.50	1956 Aug 18	X-7B	-	F-192	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A349	2435703.50	1956 Aug 18	X-7B	-	F-190	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A350	2435764.50	1956 Oct 18	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A351	2435777.50	1956 Oct 31	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A352	2435786.50	1956 Nov 9	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A353	2435807.50	1956 Nov 30	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A354	2435813.50	1956 Dec 6	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1956-A355	2435828.50	1956 Dec 21	X-7A-3	?	-	0.000	WADD?	AS	-	-	Test	wsmr-history.org	-	-
1960-A328	2437135.50	1960 Jul 20	X-7A-3	-	-	0.000	WADD?	AS	-	-	Test	X-Planes	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-S43	2459411.50	2021 Jul 16	YGCS	-	-	YG Chongfu Shiyong YYXYQ	-	-	-	JQ	-	-	-	100?	220?	Alxa RB
2022-S82	2459816.50	2022 Aug 25	YGCS	-	-	YG Chongfu Shiyong YYXYQ	-	-	-	JQ	-	-	-	100?	220?	Alxa RB

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-S43	2459411.50	2021 Jul 16	YGCS	-	-	0.000	CALT	SS	-	-	Test	nasaspaceflight.com	xinhuanet.com	-
2022-S82	2459816.50	2022 Aug 25	YGCS	-	-	0.000	CALT	SS	-	-	Test	nasaspaceflight.com	xinhuanet.com	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-087	2459787.67	2022 Jul 27 0412	Lijian-1	-	Y1	XJS	-	-	-	JQ	LC130	-	-	544	-	-
2022-167	2459922.77	2022 Dec 9 0635	Jielong-3	-	Y1	Jilin-1	-	-	CCOC	HHAI	LP5	-	-	-	-	-
2023-081	2460102.67	2023 Jun 7 0410:02	Lijian-1	-	Y2	SY24A/B	-	-	-	JQ	LC130	-	-	-	-	-
2023-190	2460284.31	2023 Dec 5 1924	Jielong-3	-	Y2	CX-20	WHJSW 03	-	BRJZ	YJ	LP1	-	-	-	-	-
2024-009	2460320.73	2024 Jan 11 0530	Yinli-1	-	Y1	Yunyao-1 18-20	-	-	DFHT	YJ	LP1	-	-	-	-	-
2024-016	2460332.67	2024 Jan 23 0403	Lijian-1	-	Y3	Taijing	-	-	-	JQ	LC130	-	-	-	-	-
2024-024	2460343.63	2024 Feb 3 0306	Jielong-3	-	Y3	NEXSAT-1/DFHG-1	-	-	BRJZ	YJ	LP2	-	-	-	-	-
2024-173	2460577.61	2024 Sep 24 0231:41	Jielong-3	-	Y4	Jilin Daxue/XSD-15/	-	-	DFHT	HHAI	LP4	-	-	-	-	-
2024-174	2460578.48	2024 Sep 24 2333	Lijian-1	-	Y4	AIRSAT/Yunyao	-	-	-	JQ	LC130	-	-	-	-	-
2024-205	2460625.67	2024 Nov 11 0403	Lijian-1	-	Y5	SY-26/Jilin/Yunyao	-	-	-	JQ	LC130	-	-	-	-	-
2024-F05	2460671.54	2024 Dec 27 0103:31	Lijian-1	-	Y6	DEAR-3	-	-	-	JQ	LC130	-	-	150	-	-
2025-007	2460688.62	2025 Jan 13 0300	Jielong-3	-	Y5	Weili Kongjian 01 zu	-	-	DFHT	HHAI	LP4	-	-	-	-	-
2025-108	2460816.67	2025 May 21 0405	Lijian-1	-	Y7	Taijing	-	-	-	JQ	LC130	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-087	2459787.67	2022 Jul 27 0412	Lijian-1	-	Y1	0.899	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2022-167	2459922.77	2022 Dec 9 0635	Jielong-3	-	Y1	0.451	CZHJ	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2023-081	2460102.67	2023 Jun 7 0410:02	Lijian-1	-	Y2	1.426	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2023-190	2460284.31	2023 Dec 5 1924	Jielong-3	-	Y2	0.300	CZHJ	OS	-	C	Sat LEO O	nasaspaceflight.com	-	-
2024-009	2460320.73	2024 Jan 11 0530	Yinli-1	-	Y1	1.500	DFK	OS	-	C	Sat LEO O	nasaspaceflight.com	-	-
2024-016	2460332.67	2024 Jan 23 0403	Lijian-1	-	Y3	0.860	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2024-024	2460343.63	2024 Feb 3 0306	Jielong-3	-	Y3	0.480	CZHJ	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2024-173	2460577.61	2024 Sep 24 0231:41	Jielong-3	-	Y4	0.500	CZHJ	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2024-174	2460578.48	2024 Sep 24 2333	Lijian-1	-	Y4	0.850	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2024-205	2460625.67	2024 Nov 11 0403	Lijian-1	-	Y5	0.850	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2024-F05	2460671.54	2024 Dec 27 0103:31	Lijian-1	-	Y6	0.800	ZKYT	OF	S3	C	Sat SSO L	nasaspaceflight.com	-	Stage 3 failure
2025-007	2460688.62	2025 Jan 13 0300	Jielong-3	-	Y5	1.600	CZHJ	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-
2025-108	2460816.67	2025 May 21 0405	Lijian-1	-	Y7	0.900	ZKYT	OS	-	C	Sat SSO L	nasaspaceflight.com	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-087	2459787.50	2022 Jul 27	Lijian-1	-	Y1	XJS	-	-	-	JQ	LC130	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Agency	Launch_Code	Group	Category	LTCite	Cite	Notes
2022-087	2459787.50	2022 Jul 27	Lijian-1	-	Y1	-	OS	-	Sat	nasaspaceflight.com	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1988-M03	2447514.50	1988 Dec 19	Zhinui	-	ZN-1	-	-	-	-	HAI	-	-	-	70?	-	-
1988-M04	2447515.50	1988 Dec 20?	Zhinui	-	ZN-1	-	-	-	-	HAI	-	-	-	70?	-	-
1988-M05	2447517.50	1988 Dec 22?	Zhinui	-	ZN-1	-	-	-	-	HAI	-	-	-	70?	-	-
1988-M06	2447523.50	1988 Dec 28	Zhinui	-	ZN-1	-	-	-	-	HAI	-	-	-	70?	-	-
1991-S31	2448278.50	1991 Jan 22	Zhinui	-	ZN-3	-	-	-	-	HAI	-	-	-	120	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1988-M03	2447514.50	1988 Dec 19	Zhinui	-	ZN-1	0.000	CSSAR	SS	-	CSSAR/	Test	Harvey	-	-
1988-M04	2447515.50	1988 Dec 20?	Zhinui	-	ZN-1	0.000	CSSAR	SS	-	CSSAR/	Test	Harvey	-	-
1988-M05	2447517.50	1988 Dec 22?	Zhinui	-	ZN-1	0.000	CSSAR	SS	-	CSSAR/	Test	Harvey	-	-
1988-M06	2447523.50	1988 Dec 28	Zhinui	-	ZN-1	0.000	CSSAR	SS	-	CSSAR/	Test	Harvey	-	-
1991-S31	2448278.50	1991 Jan 22	Zhinui	-	ZN-3	0.000	CSSAR	SS	-	CSSAR/	Test	Harvey	AWST910311-11	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2022-F05	2459927.85	2022 Dec 14 0830:25	Zhuque-2	-	Y1	Zhixing-1B	-	-	-	JQ	LC43/96	-	-	400	-	-
2023-097	2460137.54	2023 Jul 12 0100	Zhuque-2	-	Y2	Dummy payload	-	-	-	JQ	LC43/96	-	-	400	-	-
2023-193	2460287.49	2023 Dec 8 2339:03	Zhuque-2	-	Y3	Hongqing-1/2/TY-33	-	-	-	JQ	LC43/96	-	-	400	-	-
2024-221	2460641.58	2024 Nov 27 0200	Zhuque-2E	1	Y1	Guangchuan-01/02	-	-	-	JQ	LC43/96A	-	-	400	-	-
2025-103	2460812.67	2025 May 17 0412	Zhuque-2E	1	Y2	Tianyi?	-	-	-	JQ	LC43/96A	-	-	400	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2022-F05	2459927.85	2022 Dec 14 0830:25	Zhuque-2	-	Y1	0.150	LANDSP	OF	S2P	C	Sat SSO O	nasaspaceflight.com	-	Stage 2 vernier failure
2023-097	2460137.54	2023 Jul 12 0100	Zhuque-2	-	Y2	0.050	LANDSP	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2023-193	2460287.49	2023 Dec 8 2339:03	Zhuque-2	-	Y3	0.150	LANDSP	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2024-221	2460641.58	2024 Nov 27 0200	Zhuque-2E	1	Y1	0.150	LANDSP	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-
2025-103	2460812.67	2025 May 17 0412	Zhuque-2E	1	Y2	0.150	LANDSP	OS	-	C	Sat SSO O	nasaspaceflight.com	-	-

Launch																
Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1992-A04	2448699.50	1992 Mar 18	Scout II TV	-	-	-	-	-	-	SDQ	SL?	-	-	1?	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1992-A04	2448699.50	1992 Mar 18	Scout II TV	-	-	0.000	ASI	SF	S1	ASI/	Test	SN920413-3	Jane's94-236	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2001-M25	2452060.50	2001 May 31?	Fateh-110	-	-	R&D	-	-	-	IRAN	-	-	-	60?	-	-
2002-M36	2452523.50	2002 Sep 6?	Fateh-110	-	-	R&D	-	-	-	IRAN	-	-	-	60?	-	-
2006-M13	2454041.50	2006 Nov 2	Fateh-110	-	-	-	-	-	-	IRAN	-	-	-	60?	-	-
2007-M05	2454434.50	2007 Dec	Fateh-110	-	-	-	-	-	-	SYRIA	-	-	-	60?	-	-
2007-M06	2454434.50	2007 Dec	Fateh-110	-	-	-	-	-	-	SYRIA	-	-	-	60?	-	-
2008-M11	2454800.50	2008 Dec	Fateh-110	-	-	-	-	-	-	SYRIA	-	-	-	60?	-	-
2010-M12	2455433.50	2010 Aug 25	Fateh-110	-	-	-	-	-	-	IRAN	-	-	-	60?	-	-
2011-S08	2455635.62	2011 Mar 15 0300?	Kavoshgar K110	-	Kavoshgar-4	Kavoshgar Class C	-	-	-	SEMX	-	-	-	120	-	-
2011-A26	2455811.50	2011 Sep 7	Kavoshgar K110	-	Kavoshgar-5	Kavoshgar Class C	-	-	-	SEMX	-	-	-	1?	-	-
2012-M04	2456108.50	2012 Jul?	Fateh-110	-	-	R&D	-	-	-	IRAN	-	-	-	60?	-	-
2012-A29	2456178.69	2012 Sep 8 0430	Kavoshgar K110	-	Kavoshgar-6	Kavoshgar Class C	-	-	-	SEMX	-	-	-	1?	-	-
2012-M05	2456286.50	2012 Dec 25?	Fateh-110	?	-	-	-	-	-	ALNASR	-	-	-	60?	-	-
2013-M01	2456294.50	2013 Jan 2	Fateh-110	?	-	-	-	-	-	ALNASR	-	-	-	60?	-	-
2013-M02	2456295.50	2013 Jan 3	Fateh-110	?	-	-	-	-	-	ALNASR	-	-	-	60?	-	-
2013-M03	2456301.50	2013 Jan 9	Fateh-110	?	-	-	-	-	-	ALNASR	-	-	-	60?	-	-
2013-S05	2456320.50	2013 Jan 28	Kavoshgar K110	-	Kavoshgar Pishgam	Kavoshgar Class C	Pioneer Probe	-	-	SEMX	-	-	-	120	-	-
2016-A51	2457556.50	2016 Jun 17	Zelzal-3	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A52	2457557.50	2016 Jun 18	Zelzal-3	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A53	2457565.50	2016 Jun 26	Zelzal-3	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A55	2457577.50	2016 Jul 8	Zelzal-3	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A56	2457578.50	2016 Jul 9	Zelzal-3	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A57	2457579.50	2016 Jul 10	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A58	2457582.50	2016 Jul 13	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A59	2457585.50	2016 Jul 16	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A60	2457585.50	2016 Jul 16	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A62	2457588.50	2016 Jul 19	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A63	2457588.50	2016 Jul 19	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A64	2457590.50	2016 Jul 21	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A65	2457592.50	2016 Jul 23	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A68	2457596.50	2016 Jul 27	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A69	2457599.50	2016 Jul 30	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A70	2457606.50	2016 Aug 6	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A73	2457615.50	2016 Aug 15	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A74	2457620.50	2016 Aug 20	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2016-A75	2457623.50	2016 Aug 23	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A76	2457623.50	2016 Aug 23	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A80	2457631.50	2016 Aug 31	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2016-A81	2457633.50	2016 Sep 2	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A82	2457637.50	2016 Sep 6	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2016-A83	2457640.50	2016 Sep 9	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A84	2457640.50	2016 Sep 9	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2016-A87	2457709.50	2016 Nov 17	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	MidiDesert
2016-A88	2457712.50	2016 Nov 20	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2016-A90	2457719.50	2016 Nov 27	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A91	2457727.50	2016 Dec 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A92	2457727.50	2016 Dec 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A93	2457734.50	2016 Dec 12	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A94	2457740.50	2016 Dec 18	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2016-A95	2457742.50	2016 Dec 20	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A96	2457743.50	2016 Dec 21	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A97	2457744.50	2016 Dec 22	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A98	2457744.50	2016 Dec 22	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A100	2457746.50	2016 Dec 24	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2016-A101	2457746.50	2016 Dec 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A14	2457756.50	2017 Jan 3	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A15	2457757.50	2017 Jan 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A16	2457758.50	2017 Jan 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Shabwa
2017-A17	2457765.50	2017 Jan 12	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A18	2457765.50	2017 Jan 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A19	2457767.50	2017 Jan 14	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A20	2457777.50	2017 Jan 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Sanaa
2017-A21	2457782.50	2017 Jan 29	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A22	2457784.50	2017 Jan 31	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A23	2457784.50	2017 Jan 31	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	I of Zuqar
2017-A24	2457789.50	2017 Feb 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2017-A25	2457792.50	2017 Feb 8	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A26	2457799.50	2017 Feb 15	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A28	2457802.50	2017 Feb 18	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2017-A29	2457803.50	2017 Feb 19	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A30	2457805.50	2017 Feb 21	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A32	2457809.50	2017 Feb 25	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A33	2457825.50	2017 Mar 13	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A39	2457842.50	2017 Mar 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A40	2457844.50	2017 Apr 1	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A42	2457855.50	2017 Apr 12	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Sanaa
2017-A44	2457855.50	2017 Apr 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A48	2457868.50	2017 Apr 25	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A49	2457878.50	2017 May 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2017-A50	2457881.50	2017 May 8	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A51	2457884.50	2017 May 11	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A53	2457886.50	2017 May 13	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A54	2457886.50	2017 May 13	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A55	2457897.50	2017 May 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A56	2457897.50	2017 May 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Mareb
2017-A57	2457915.50	2017 Jun 11	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A58	2457915.50	2017 Jun 11	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-A59	2457931.50	2017 Jun 27	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A60	2457935.50	2017 Jul 1	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A61	2457944.50	2017 Jul 10	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A62	2457948.50	2017 Jul 14	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A63	2457949.50	2017 Jul 15	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A64	2457949.50	2017 Jul 15	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Shawbah
2017-A65	2457957.50	2017 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A66	2457961.50	2017 Jul 27	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A67	2457961.50	2017 Jul 27	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A70	2457967.50	2017 Aug 2	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A71	2457970.50	2017 Aug 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A72	2457970.50	2017 Aug 5	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan?
2017-A73	2457971.50	2017 Aug 6	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A74	2457971.50	2017 Aug 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A76	2457972.50	2017 Aug 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A77	2457973.50	2017 Aug 8	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A78	2457973.50	2017 Aug 8	Zelzal-1	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan?
2017-A79	2457977.50	2017 Aug 12	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2017-A80	2457977.50	2017 Aug 12	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A81	2457977.50	2017 Aug 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Yemen coast
2017-A82	2457977.50	2017 Aug 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan?
2017-A83	2457982.50	2017 Aug 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan?
2017-A84	2457988.50	2017 Aug 23	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Sanaa
2017-A85	2457994.50	2017 Aug 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	N Medi des.
2017-A86	2457998.50	2017 Sep 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	N Medi des.
2017-A88	2458000.50	2017 Sep 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A89	2458012.50	2017 Sep 16	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjah
2017-A90	2458012.50	2017 Sep 16	Zelzal-2	?	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjah
2017-A91	2458012.50	2017 Sep 16	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A93	2458021.50	2017 Sep 25	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A94	2458027.50	2017 Oct 1	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A95	2458045.50	2017 Oct 19	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Lahj
2017-A96	2458046.50	2017 Oct 20	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjah
2017-A97	2458052.50	2017 Oct 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A110	2458063.50	2017 Nov 6	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A107	2458064.50	2017 Nov 7	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A108	2458065.50	2017 Nov 8	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2017-A101	2458066.50	2017 Nov 9	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2017-A105	2458066.50	2017 Nov 9	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2017-A106	2458071.50	2017 Nov 14	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A104	2458071.50	2017 Nov 14	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A102	2458075.50	2017 Nov 18	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A103	2458077.50	2017 Nov 20	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A111	2458086.50	2017 Nov 29	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2017-A114	2458093.50	2017 Dec 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Medi
2017-A115	2458093.50	2017 Dec 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Medi
2017-A116	2458093.50	2017 Dec 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Medi
2017-A117	2458093.50	2017 Dec 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Medi
2017-A118	2458093.50	2017 Dec 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Medi
2017-A120	2458104.50	2017 Dec 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A124	2458107.50	2017 Dec 20	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A125	2458109.50	2017 Dec 22	Zelzal-3	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Fardat Nehm
2017-A126	2458111.50	2017 Dec 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A127	2458112.50	2017 Dec 25	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A131	2458116.50	2017 Dec 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A132	2458116.50	2017 Dec 29	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2017-A134	2458118.50	2017 Dec 31	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2018-A02	2458120.50	2018 Jan 2	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A09	2458123.50	2018 Jan 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A04	2458125.50	2018 Jan 7	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A05	2458128.50	2018 Jan 10	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A07	2458131.50	2018 Jan 13	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Bayda
2018-A21	2458140.50	2018 Jan 22	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A22	2458142.50	2018 Jan 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A23	2458142.50	2018 Jan 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A24	2458144.50	2018 Jan 26	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A19	2458144.50	2018 Jan 26	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A20	2458144.50	2018 Jan 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A11	2458150.50	2018 Feb 1	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A13	2458151.50	2018 Feb 2	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A14	2458153.50	2018 Feb 4	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2018-A15	2458153.50	2018 Feb 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A16	2458155.50	2018 Feb 6	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A29	2458161.50	2018 Feb 12	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2018-A30	2458173.50	2018 Feb 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A33	2458183.50	2018 Mar 6	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A34	2458194.50	2018 Mar 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A35	2458201.50	2018 Mar 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A79	2458234.50	2018 Apr 26	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A64	2458245.50	2018 May 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A65	2458245.50	2018 May 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A66	2458245.50	2018 May 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A67	2458245.50	2018 May 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A56	2458262.50	2018 May 24	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A86	2458274.50	2018 Jun 5	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A95	2458277.50	2018 Jun 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Launch Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2018-A99	2458279.50	2018 Jun 10	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A105	2458284.50	2018 Jun 15	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A123	2458331.50	2018 Aug 1	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A94	2458333.50	2018 Aug 3?	Fateh-110	-	-	-	-	-	-	BEJ	-	-	-	30?	-	-
2018-A126	2458338.50	2018 Aug 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2018-A141	2458353.50	2018 Aug 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A142	2458353.50	2018 Aug 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A143	2458355.50	2018 Aug 25	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A144	2458355.50	2018 Aug 25	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A145	2458356.50	2018 Aug 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A147	2458360.50	2018 Aug 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A148	2458360.50	2018 Aug 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A149	2458360.50	2018 Aug 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A156	2458367.50	2018 Sep 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A164	2458379.50	2018 Sep 18	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A165	2458379.50	2018 Sep 18	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A169	2458388.50	2018 Sep 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A170	2458388.50	2018 Sep 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A171	2458388.50	2018 Sep 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A172	2458388.50	2018 Sep 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A173	2458389.50	2018 Sep 28	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A174	2458391.50	2018 Sep 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A175	2458391.50	2018 Sep 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A176	2458394.50	2018 Oct 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A177	2458394.50	2018 Oct 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A178	2458394.50	2018 Oct 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A179	2458394.50	2018 Oct 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A180	2458394.50	2018 Oct 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A181	2458404.50	2018 Oct 13	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A182	2458409.50	2018 Oct 18	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A186	2458412.50	2018 Oct 21	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A194	2458418.50	2018 Oct 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2018-A196	2458420.50	2018 Oct 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A197	2458420.50	2018 Oct 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A204	2458430.50	2018 Nov 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A205	2458432.50	2018 Nov 10	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A206	2458436.50	2018 Nov 14	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2018-A207	2458439.50	2018 Nov 17	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjah
2018-A209	2458445.50	2018 Nov 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A210	2458445.50	2018 Nov 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A211	2458445.50	2018 Nov 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A212	2458445.50	2018 Nov 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A213	2458445.50	2018 Nov 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A216	2458449.50	2018 Nov 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2018-A217	2458449.50	2018 Nov 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A218	2458449.50	2018 Nov 27	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A222	2458452.50	2018 Nov 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2018-A223	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A224	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A225	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A226	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A227	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A228	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A229	2458459.50	2018 Dec 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A230	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A231	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A232	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A233	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizran
2018-A234	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizran
2018-A235	2458460.50	2018 Dec 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizran
2018-A236	2458462.50	2018 Dec 10	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A237	2458471.50	2018 Dec 19	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A238	2458471.50	2018 Dec 19	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A239	2458472.50	2018 Dec 20	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A240	2458472.50	2018 Dec 20	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A241	2458473.50	2018 Dec 21	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A242	2458473.50	2018 Dec 21	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A243	2458477.50	2018 Dec 25	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2018-A244	2458480.50	2018 Dec 28	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A245	2458480.50	2018 Dec 28	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2018-A246	2458480.50	2018 Dec 28	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A247	2458481.50	2018 Dec 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A248	2458481.50	2018 Dec 29	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2018-A249	2458482.50	2018 Dec 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2018-A250	2458482.50	2018 Dec 30	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Nehm
2019-A03	2458488.50	2019 Jan 5	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2019-A05	2458495.50	2019 Jan 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A06	2458495.50	2019 Jan 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A08	2458498.50	2019 Jan 15	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjah
2019-A09	2458500.50	2019 Jan 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A13	2458509.50	2019 Jan 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A14	2458514.50	2019 Jan 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A15	2458517.50	2019 Feb 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2019-A16	2458517.50	2019 Feb 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2019-A17	2458517.50	2019 Feb 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2019-A18	2458517.50	2019 Feb 3	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2019-A19	2458518.50	2019 Feb 4	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A20	2458518.50	2019 Feb 4	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A21	2458518.50	2019 Feb 4	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A22	2458523.50	2019 Feb 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A23	2458523.50	2019 Feb 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A24	2458523.50	2019 Feb 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A25	2458523.50	2019 Feb 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A26	2458523.50	2019 Feb 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A27	2458533.50	2019 Feb 19	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A29	2458540.50	2019 Feb 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A30	2458540.50	2019 Feb 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A31	2458544.50	2019 Mar 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2019-A32	2458544.50	2019 Mar 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jizan
2019-A33	2458544.50	2019 Mar 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A34	2458544.50	2019 Mar 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A35	2458544.50	2019 Mar 2	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A37	2458548.50	2019 Mar 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A38	2458548.50	2019 Mar 6	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A40	2458549.50	2019 Mar 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A41	2458549.50	2019 Mar 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A42	2458551.50	2019 Mar 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A47	2458559.50	2019 Mar 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A48	2458559.50	2019 Mar 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A49	2458559.50	2019 Mar 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A50	2458563.50	2019 Mar 21	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Marib
2019-A53	2458573.50	2019 Mar 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A54	2458573.50	2019 Mar 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A55	2458573.50	2019 Mar 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A56	2458573.50	2019 Mar 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A57	2458573.50	2019 Mar 31	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A58	2458588.50	2019 Apr 15	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A59	2458588.50	2019 Apr 15	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A60	2458590.50	2019 Apr 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A61	2458590.50	2019 Apr 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A62	2458590.50	2019 Apr 17	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A65	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A66	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A67	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Dhalea
2019-A68	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A69	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A70	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A71	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A72	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A73	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A74	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A75	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A76	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A77	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A78	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A79	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A80	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A81	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A82	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A83	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A84	2458599.50	2019 Apr 26	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A85	2458613.50	2019 May 10	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A86	2458613.50	2019 May 10	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A87	2458617.50	2019 May 14	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A89	2458641.50	2019 Jun 7	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2019-A90	2458645.50	2019 Jun 11	Zelzal-1	?	-	Zalzak-1	-	-	-	YEMEN	-	-	-	30?	-	Jawf
2019-A91	2458646.50	2019 Jun 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A92	2458646.50	2019 Jun 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A93	2458646.50	2019 Jun 12	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A94	2458651.50	2019 Jun 17	Zelzal-1	?	-	-	-	Dilmi AB	-	YEMEN	-	-	-	0?	-	-
2019-A97	2458656.50	2019 Jun 22	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Bayda
2019-A111	2458668.50	2019 Jul 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A112	2458668.50	2019 Jul 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A113	2458668.50	2019 Jul 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2019-A114	2458668.50	2019 Jul 4	Zelzal-2	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2019-A115	2458672.50	2019 Jul 8	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Hajjh
2019-A116	2458673.50	2019 Jul 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A117	2458673.50	2019 Jul 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Asir
2019-A118	2458673.50	2019 Jul 9	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A119	2458686.50	2019 Jul 22	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Taiz
2019-A120	2458687.50	2019 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A121	2458687.50	2019 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A122	2458687.50	2019 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A123	2458687.50	2019 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2019-A124	2458687.50	2019 Jul 23	Zelzal-1	-	-	-	-	-	-	YEMEN	-	-	-	30?	-	Najran
2022-S86	2459822.50	2022 Sep?	Fateh-360	-	-	-	-	-	-	IRAN	-	-	-	100?	-	Arabian Sea?
2024-A05	2460424.50	2024 Apr 24	Fateh-110	?	-	[Intercepted by RN]	-	-	-	YEMEN	-	-	-	30?	-	G of Aden

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2001-M25	2452060.50	2001 May 31?	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2002-M36	2452523.50	2002 Sep 6?	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2006-M13	2454041.50	2006 Nov 2	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2007-M05	2454434.50	2007 Dec	Fateh-110	-	-	0.000	SYMC	MS	-	-	Test	Wikileaks	-	-
2007-M06	2454434.50	2007 Dec	Fateh-110	-	-	0.000	SYMC	MS	-	-	Test	Wikileaks	-	-
2008-M11	2454800.50	2008 Dec	Fateh-110	-	-	0.000	SYMC	MS	-	-	Test	Wikileaks	-	-
2010-M12	2455433.50	2010 Aug 25	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2011-S08	2455635.62	2011 Mar 15 0300?	Kavoshgar K110	-	Kavoshgar-4	0.000	IRSA	SS	-	IRSA/	Test	nasaspaceflight.com	-	-
2011-A26	2455811.50	2011 Sep 7	Kavoshgar K110	-	Kavoshgar-5	0.000	IRSA	SF	U	IRSA/	Bio	kavoshgar.ari.ac.ir	Wire	-
2012-M04	2456108.50	2012 Jul?	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2012-A29	2456178.69	2012 Sep 8 0430	Kavoshgar K110	-	Kavoshgar-6	0.000	IRSA	SF	U	IRSA/	Bio	nasaspaceflight.com	-	-
2012-M05	2456286.50	2012 Dec 25?	Fateh-110	?	-	0.000	SYMC	MS	-	-	Weapon	cnn.com	-	-
2013-M01	2456294.50	2013 Jan 2	Fateh-110	?	-	0.000	SYMC	MS	-	-	Weapon	JPost130110	-	-
2013-M02	2456295.50	2013 Jan 3	Fateh-110	?	-	0.000	SYMC	MS	-	-	Weapon	JPost130110	-	-
2013-M03	2456301.50	2013 Jan 9	Fateh-110	?	-	0.000	SYMC	MS	-	-	Weapon	JPost130110	-	-
2013-S05	2456320.50	2013 Jan 28	Kavoshgar K110	-	Kavoshgar Pishgam	0.000	IRSA	SS	-	IRSA/	Bio	kavoshgar.ari.ac.ir	Wire	-
2016-A51	2457556.50	2016 Jun 17	Zelzal-3	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A52	2457557.50	2016 Jun 18	Zelzal-3	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A53	2457565.50	2016 Jun 26	Zelzal-3	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A55	2457577.50	2016 Jul 8	Zelzal-3	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A56	2457578.50	2016 Jul 9	Zelzal-3	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A57	2457579.50	2016 Jul 10	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A58	2457582.50	2016 Jul 13	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A59	2457585.50	2016 Jul 16	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A60	2457585.50	2016 Jul 16	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A62	2457588.50	2016 Jul 19	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A63	2457588.50	2016 Jul 19	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A64	2457590.50	2016 Jul 21	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A65	2457592.50	2016 Jul 23	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A68	2457596.50	2016 Jul 27	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A69	2457599.50	2016 Jul 30	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A70	2457606.50	2016 Aug 6	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A73	2457615.50	2016 Aug 15	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A74	2457620.50	2016 Aug 20	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A75	2457623.50	2016 Aug 23	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A76	2457623.50	2016 Aug 23	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A80	2457631.50	2016 Aug 31	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A81	2457633.50	2016 Sep 2	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A82	2457637.50	2016 Sep 6	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A83	2457640.50	2016 Sep 9	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A84	2457640.50	2016 Sep 9	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A87	2457709.50	2016 Nov 17	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A88	2457712.50	2016 Nov 20	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A90	2457719.50	2016 Nov 27	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A91	2457727.50	2016 Dec 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A92	2457727.50	2016 Dec 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A93	2457734.50	2016 Dec 12	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A94	2457740.50	2016 Dec 18	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A95	2457742.50	2016 Dec 20	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A96	2457743.50	2016 Dec 21	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A97	2457744.50	2016 Dec 22	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A98	2457744.50	2016 Dec 22	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A100	2457746.50	2016 Dec 24	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2016-A101	2457746.50	2016 Dec 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A14	2457756.50	2017 Jan 3	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A15	2457757.50	2017 Jan 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A16	2457758.50	2017 Jan 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A17	2457765.50	2017 Jan 12	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A18	2457765.50	2017 Jan 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A19	2457767.50	2017 Jan 14	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A20	2457777.50	2017 Jan 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A21	2457782.50	2017 Jan 29	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A22	2457784.50	2017 Jan 31	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A23	2457784.50	2017 Jan 31	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A24	2457789.50	2017 Feb 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A25	2457792.50	2017 Feb 8	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A26	2457799.50	2017 Feb 15	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A28	2457802.50	2017 Feb 18	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A29	2457803.50	2017 Feb 19	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A30	2457805.50	2017 Feb 21	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A32	2457809.50	2017 Feb 25	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A33	2457825.50	2017 Mar 13	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A39	2457842.50	2017 Mar 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A40	2457844.50	2017 Apr 1	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A42	2457855.50	2017 Apr 12	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A44	2457855.50	2017 Apr 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A48	2457868.50	2017 Apr 25	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A49	2457878.50	2017 May 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A50	2457881.50	2017 May 8	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A51	2457884.50	2017 May 11	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A53	2457886.50	2017 May 13	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A54	2457886.50	2017 May 13	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A55	2457897.50	2017 May 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A56	2457897.50	2017 May 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A57	2457915.50	2017 Jun 11	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A58	2457915.50	2017 Jun 11	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-A59	2457931.50	2017 Jun 27	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A60	2457935.50	2017 Jul 1	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A61	2457944.50	2017 Jul 10	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A62	2457948.50	2017 Jul 14	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A63	2457949.50	2017 Jul 15	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A64	2457949.50	2017 Jul 15	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A65	2457957.50	2017 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A66	2457961.50	2017 Jul 27	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A67	2457961.50	2017 Jul 27	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A70	2457967.50	2017 Aug 2	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A71	2457970.50	2017 Aug 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A72	2457970.50	2017 Aug 5	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A73	2457971.50	2017 Aug 6	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A74	2457971.50	2017 Aug 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A76	2457972.50	2017 Aug 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A77	2457973.50	2017 Aug 8	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A78	2457973.50	2017 Aug 8	Zelzal-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A79	2457977.50	2017 Aug 12	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A80	2457977.50	2017 Aug 12	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A81	2457977.50	2017 Aug 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A82	2457977.50	2017 Aug 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A83	2457982.50	2017 Aug 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A84	2457988.50	2017 Aug 23	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A85	2457994.50	2017 Aug 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A86	2457998.50	2017 Sep 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A88	2458000.50	2017 Sep 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A89	2458012.50	2017 Sep 16	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A90	2458012.50	2017 Sep 16	Zelzal-2	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A91	2458012.50	2017 Sep 16	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A93	2458021.50	2017 Sep 25	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A94	2458027.50	2017 Oct 1	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A95	2458045.50	2017 Oct 19	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A96	2458046.50	2017 Oct 20	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A97	2458052.50	2017 Oct 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A110	2458063.50	2017 Nov 6	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A107	2458064.50	2017 Nov 7	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A108	2458065.50	2017 Nov 8	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A101	2458066.50	2017 Nov 9	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A105	2458066.50	2017 Nov 9	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A106	2458071.50	2017 Nov 14	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A104	2458071.50	2017 Nov 14	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A102	2458075.50	2017 Nov 18	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A103	2458077.50	2017 Nov 20	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A111	2458086.50	2017 Nov 29	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A114	2458093.50	2017 Dec 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A115	2458093.50	2017 Dec 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A116	2458093.50	2017 Dec 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A117	2458093.50	2017 Dec 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A118	2458093.50	2017 Dec 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A120	2458104.50	2017 Dec 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A124	2458107.50	2017 Dec 20	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A125	2458109.50	2017 Dec 22	Zelzal-3	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A126	2458111.50	2017 Dec 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A127	2458112.50	2017 Dec 25	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A131	2458116.50	2017 Dec 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A132	2458116.50	2017 Dec 29	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2017-A134	2458118.50	2017 Dec 31	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A02	2458120.50	2018 Jan 2	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A09	2458123.50	2018 Jan 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A04	2458125.50	2018 Jan 7	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A05	2458128.50	2018 Jan 10	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A07	2458131.50	2018 Jan 13	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A21	2458140.50	2018 Jan 22	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A22	2458142.50	2018 Jan 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A23	2458142.50	2018 Jan 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A24	2458144.50	2018 Jan 26	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A19	2458144.50	2018 Jan 26	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A20	2458144.50	2018 Jan 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A11	2458150.50	2018 Feb 1	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A13	2458151.50	2018 Feb 2	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A14	2458153.50	2018 Feb 4	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A15	2458153.50	2018 Feb 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A16	2458155.50	2018 Feb 6	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A29	2458161.50	2018 Feb 12	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A30	2458173.50	2018 Feb 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A33	2458183.50	2018 Mar 6	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A34	2458194.50	2018 Mar 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A35	2458201.50	2018 Mar 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A79	2458234.50	2018 Apr 26	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A64	2458245.50	2018 May 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A65	2458245.50	2018 May 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A66	2458245.50	2018 May 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A67	2458245.50	2018 May 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A56	2458262.50	2018 May 24	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A86	2458274.50	2018 Jun 5	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A95	2458277.50	2018 Jun 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2018-A99	2458279.50	2018 Jun 10	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A105	2458284.50	2018 Jun 15	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A123	2458331.50	2018 Aug 1	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A94	2458333.50	2018 Aug 3?	Fateh-110	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2018-A126	2458338.50	2018 Aug 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A141	2458353.50	2018 Aug 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A142	2458353.50	2018 Aug 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A143	2458355.50	2018 Aug 25	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A144	2458355.50	2018 Aug 25	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A145	2458356.50	2018 Aug 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A147	2458360.50	2018 Aug 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A148	2458360.50	2018 Aug 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A149	2458360.50	2018 Aug 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A156	2458367.50	2018 Sep 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A164	2458379.50	2018 Sep 18	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A165	2458379.50	2018 Sep 18	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A169	2458388.50	2018 Sep 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A170	2458388.50	2018 Sep 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A171	2458388.50	2018 Sep 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A172	2458388.50	2018 Sep 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A173	2458389.50	2018 Sep 28	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A174	2458391.50	2018 Sep 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A175	2458391.50	2018 Sep 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A176	2458394.50	2018 Oct 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A177	2458394.50	2018 Oct 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A178	2458394.50	2018 Oct 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A179	2458394.50	2018 Oct 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A180	2458394.50	2018 Oct 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A181	2458404.50	2018 Oct 13	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A182	2458409.50	2018 Oct 18	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A186	2458412.50	2018 Oct 21	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A194	2458418.50	2018 Oct 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A196	2458420.50	2018 Oct 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A197	2458420.50	2018 Oct 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A204	2458430.50	2018 Nov 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A205	2458432.50	2018 Nov 10	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A206	2458436.50	2018 Nov 14	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A207	2458439.50	2018 Nov 17	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A209	2458445.50	2018 Nov 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A210	2458445.50	2018 Nov 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A211	2458445.50	2018 Nov 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A212	2458445.50	2018 Nov 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A213	2458445.50	2018 Nov 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A216	2458449.50	2018 Nov 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A217	2458449.50	2018 Nov 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A218	2458449.50	2018 Nov 27	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A222	2458452.50	2018 Nov 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A223	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A224	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A225	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A226	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A227	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A228	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A229	2458459.50	2018 Dec 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A230	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A231	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A232	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A233	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A234	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A235	2458460.50	2018 Dec 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A236	2458462.50	2018 Dec 10	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A237	2458471.50	2018 Dec 19	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A238	2458471.50	2018 Dec 19	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A239	2458472.50	2018 Dec 20	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A240	2458472.50	2018 Dec 20	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A241	2458473.50	2018 Dec 21	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A242	2458473.50	2018 Dec 21	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A243	2458477.50	2018 Dec 25	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A244	2458480.50	2018 Dec 28	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A245	2458480.50	2018 Dec 28	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A246	2458480.50	2018 Dec 28	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A247	2458481.50	2018 Dec 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A248	2458481.50	2018 Dec 29	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A249	2458482.50	2018 Dec 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2018-A250	2458482.50	2018 Dec 30	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A03	2458488.50	2019 Jan 5	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A05	2458495.50	2019 Jan 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A06	2458495.50	2019 Jan 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A08	2458498.50	2019 Jan 15	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A09	2458500.50	2019 Jan 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A13	2458509.50	2019 Jan 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A14	2458514.50	2019 Jan 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A15	2458517.50	2019 Feb 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A16	2458517.50	2019 Feb 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A17	2458517.50	2019 Feb 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A18	2458517.50	2019 Feb 3	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Launch OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2019-A19	2458518.50	2019 Feb 4	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A20	2458518.50	2019 Feb 4	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A21	2458518.50	2019 Feb 4	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A22	2458523.50	2019 Feb 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A23	2458523.50	2019 Feb 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A24	2458523.50	2019 Feb 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A25	2458523.50	2019 Feb 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A26	2458523.50	2019 Feb 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A27	2458533.50	2019 Feb 19	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A29	2458540.50	2019 Feb 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A30	2458540.50	2019 Feb 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A31	2458544.50	2019 Mar 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A32	2458544.50	2019 Mar 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A33	2458544.50	2019 Mar 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A34	2458544.50	2019 Mar 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A35	2458544.50	2019 Mar 2	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A37	2458548.50	2019 Mar 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A38	2458548.50	2019 Mar 6	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A40	2458549.50	2019 Mar 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A41	2458549.50	2019 Mar 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A42	2458551.50	2019 Mar 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A47	2458559.50	2019 Mar 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A48	2458559.50	2019 Mar 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A49	2458559.50	2019 Mar 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A50	2458563.50	2019 Mar 21	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A53	2458573.50	2019 Mar 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A54	2458573.50	2019 Mar 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A55	2458573.50	2019 Mar 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A56	2458573.50	2019 Mar 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A57	2458573.50	2019 Mar 31	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A58	2458588.50	2019 Apr 15	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A59	2458588.50	2019 Apr 15	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A60	2458590.50	2019 Apr 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A61	2458590.50	2019 Apr 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A62	2458590.50	2019 Apr 17	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A65	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A66	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A67	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A68	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A69	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A70	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A71	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A72	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A73	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A74	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A75	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A76	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A77	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A78	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A79	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A80	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A81	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A82	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A83	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A84	2458599.50	2019 Apr 26	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A85	2458613.50	2019 May 10	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A86	2458613.50	2019 May 10	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A87	2458617.50	2019 May 14	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A89	2458641.50	2019 Jun 7	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A90	2458645.50	2019 Jun 11	Zelzal-1	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A91	2458646.50	2019 Jun 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A92	2458646.50	2019 Jun 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A93	2458646.50	2019 Jun 12	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A94	2458651.50	2019 Jun 17	Zelzal-1	?	-	0.000	ANSAL	MF	U	-	Weapon	spa.gov.sa	-	-
2019-A97	2458656.50	2019 Jun 22	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A111	2458668.50	2019 Jul 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A112	2458668.50	2019 Jul 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A113	2458668.50	2019 Jul 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A114	2458668.50	2019 Jul 4	Zelzal-2	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A115	2458672.50	2019 Jul 8	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A116	2458673.50	2019 Jul 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A117	2458673.50	2019 Jul 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A118	2458673.50	2019 Jul 9	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A119	2458686.50	2019 Jul 22	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A120	2458687.50	2019 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A121	2458687.50	2019 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A122	2458687.50	2019 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A123	2458687.50	2019 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2019-A124	2458687.50	2019 Jul 23	Zelzal-1	-	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-
2022-S86	2459822.50	2022 Sep?	Fateh-360	-	-	0.000	IR	MS	-	-	Test	Wire	-	-
2024-A05	2460424.50	2024 Apr 24	Fateh-110	?	-	0.000	ANSAL	MS	-	-	Weapon	sabanews.net	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1985-F01	2446168.83	1985 Apr 13 0800:00	Zenit-2	-	45086-101	-	EPN No. 03.694 No. 5102	-	-	NIIP-5	LC45/1	-	-	200?	-	-
1985-053	2446237.85	1985 Jun 21 0829:32	Zenit-2	-	51076-105	-	EPN No. 03.694	-	-	NIIP-5	LC45/1	-	-	340	-	-
1985-097	2446360.79	1985 Oct 22 0700:00	Zenit-2	-	67076-106	Kosmos-1697	EPN No. 03.694	-	-	NIIP-5	LC45/1	-	-	1163	-	-
1985-121	2446427.89	1985 Dec 28 0916:30	Zenit-2	-	51041-502	Kosmos-1714	Tselina-2 No. 3L	-	-	NIIP-5	LC45/1	-	-	853	-	-
1986-056	2446641.85	1986 Jul 30 0830:00	Zenit-2	-	45061-501/4L	Kosmos-1767	EPN No. 03.695	-	-	NIIP-5	LC45/1	-	-	400	-	-
1986-080	2446725.83	1986 Oct 22 0800:00	Zenit-2	-	67041-503/6L	Kosmos-1786	Taifun-1B	-	-	NIIP-5	LC45/1	-	-	2564	-	-
1987-016	2446840.85	1987 Feb 14 0830:00	Zenit-2	-	45041-504	Kosmos-1820	EPN No. 03.695	-	-	NIIP-5	LC45/1	-	-	247	-	-
1987-027	2446872.85	1987 Mar 18 0830:00	Zenit-2	-	51038-401	Kosmos-1833	EPN No. 03.694	-	-	NIIP-5	LC45/1	-	-	1155	-	-
1987-041	2446928.74	1987 May 13 0540:00	Zenit-2	-	45058-403	Kosmos-1844	Tselina-2	-	-	NIIP-5	LC45/1	-	-	1162	-	-
1987-065	2447008.67	1987 Aug 1 0359:59	Zenit-2	-	45095-601/11L	Kosmos-1871	EPN No. 03.695	-	-	NIIP-5	LC45/1	-	-	198	-	-
1987-071	2447035.85	1987 Aug 28 0820:00	Zenit-2	-	51058-404/10L	Kosmos-1873	EPN No. 03.695	-	-	NIIP-5	LC45/1	-	-	250	-	-
1988-039	2447296.89	1988 May 15 0920:00	Zenit-2	-	51065-615/12L	Kosmos-1943	Tselina-2	-	-	NIIP-5	LC45/1	-	-	1164	-	-
1988-102	2447489.12	1988 Nov 23 1450:58	Zenit-2	-	51095-612/13L	Kosmos-1980	Tselina-2	-	-	NIIP-5	LC45/1	-	-	1169	-	-
1990-046	2448033.72	1990 May 22 0514:02	Zenit-2	-	67065-613/2S	Kosmos-2082	Tselina-2	-	-	GIK-5	LC45/2	-	-	1170	-	-
1990-F05	2448168.69	1990 Oct 4 0428:00	Zenit-2	-	45079-216/14S/1-88	-	Tselina-2	-	-	GIK-5	LC45/2	-	-	0	-	-
1991-F03	2448498.87	1991 Aug 30 0858:01	Zenit-2	-	51019-217/16L/2-88	-	Tselina-2	-	-	GIK-5	LC45/1	-	-	150?	-	-
1992-F01	2448658.26	1992 Feb 5 1814:00	Zenit-2	-	45082-801/17L/1-91	-	Tselina-2	-	-	GIK-5	LC45/1	-	-	150?	-	-
1992-076	2448943.82	1992 Nov 17 0747:01	Zenit-2	-	67092-802/2-91	Kosmos-2219	Tselina-2	-	-	GIK-5	LC45/1	-	-	1170	-	-
1992-093	2448981.75	1992 Dec 25 0556:00	Zenit-2	-	67033-306/3-90	Kosmos-2227	Tselina-2	-	-	GIK-5	LC45/1	-	-	1164	-	-
1993-016	2449072.60	1993 Mar 26 0221:00	Zenit-2	-	45065-614/3S-87	Kosmos-2237	Tselina-2	-	-	GIK-5	LC45/1	-	-	1154	-	-
1993-059	2449246.82	1993 Sep 16 0736:19	Zenit-2	-	67019-218/3-88	Kosmos-2263	Tselina-2	-	-	GIK-5	LC45/1	-	-	1322	-	-
1994-023	2449465.83	1994 Apr 23 0801:59	Zenit-2	-	45019-219/1-89	Kosmos-2278	Tselina-2	-	-	GIK-5	LC45/1	-	-	1147	-	-
1994-053	2449591.00	1994 Aug 26 1200:00	Zenit-2	-	67057-901/14NI	Kosmos-2290	Orlets-2	-	-	GIK-5	LC45/1	-	-	576	-	-
1994-074	2449660.74	1994 Nov 4 0547:00	Zenit-2	-	51057-902/1-87	Resurs-O1	Resurs-O1 No. 3L	-	-	GIK-5	LC45/1	-	-	972	-	-
1994-077	2449680.89	1994 Nov 24 0915:59	Zenit-2	-	45033-305/2-90	Kosmos-2297	Tselina-2	-	-	GIK-5	LC45/1	-	-	1181	-	-
1995-058	2450022.35	1995 Oct 31 2019:00	Zenit-2	-	45057-903/2-89	Kosmos-2322	Tselina-2	-	-	GIK-5	LC45/1	-	-	1154	-	-
1996-051	2450330.88	1996 Sep 4 0901:00	Zenit-2	-	51027-905/15L	Kosmos-2333	Tselina-2	-	-	GIK-5	LC45/1	-	-	1166	-	-
1997-F02	2450588.80	1997 May 20 0707:00	Zenit-2	-	45013-302/1-90	-	Tselina-2 No. 13L	-	-	GIK-5	LC45/1	-	-	10?	-	-
1998-043	2451004.77	1998 Jul 10 0630:00	Zenit-2	-	67021-803/18NI	Resurs-O1 No. 4	Resurs-O1 No. 4L	-	-	GIK-5	LC45/1	-	-	1140	-	-
1998-045	2451022.89	1998 Jul 28 0915:00	Zenit-2	-	45092-803/1-98	Kosmos-2360	Tselina-2 No. 14L	-	-	GIK-5	LC45/1	-	-	1164	-	-
1998-F05	2451066.35	1998 Sep 9 2029:00	Zenit-2 11K77.05	-	67047-801/22L	Globalstar	Globalstar Z1	-	-	GIK-5	LC45/1	-	-	200?	-	-
1999-014	2451265.56	1999 Mar 28 0129:59	Zenit-3SL	-	1L/DM-SL-1TL	SL1 DemoSat	DemoSat	45043-601	ODYSSEY	KLA	-	-	-	36119	-	-
1999-039	2451376.73	1999 Jul 17 0538:00	Zenit-2	-	51025-802/17L	Okean-O No. 1L	Okean-O No. 1	-	-	GIK-5	LC45/1	-	-	959	-	-
1999-056	2451461.64	1999 Oct 10 0328:00	Zenit-3SL	-	3L/DM-SL-3L	SL2 DirecTV 1-R	DirecTV-1R	51043-602	ODYSSEY	KLA	-	-	-	42115	-	-
2000-006	2451577.89	2000 Feb 3 0926:00	Zenit-2	-	45025-801/1-94	Kosmos-2369	Tselina-2 No. 15L	-	-	GIK-5	LC45/1	-	-	1167	-	-
2000-F02	2451616.12	2000 Mar 12 1449:15	Zenit-3SL	-	2L/DM-SL-2L	SL3 ICO F-1	ICO F1	67043-703	ODYSSEY	KLA	-	-	-	200	-	-
2000-043	2451754.45	2000 Jul 28 2242:00	Zenit-3SL	-	5?/DM-SL-4L	SL4 PAS 9	PAS 9	51021-102	ODYSSEY	KLA	-	-	-	36326	-	-
2000-056	2451812.92	2000 Sep 25 1010:00	Zenit-2	-	67013-303/16NI	Kosmos-2372	Yenisey	-	-	GIK-5	LC45/1	-	-	602	-	-
2000-066	2451838.74	2000 Oct 21 0552	Zenit-3SL	-	6L/DM-SL-6L	SL5 Thuraya	Thuraya 1	45048-901	ODYSSEY	KLA	-	-	-	40166	-	-
2001-012	2451987.44	2001 Mar 18 2233:30	Zenit-3SL	-	7?/DM-SL-5L	SL7 XM Radio-2	XM Radio-2	67021-203	ODYSSEY	KLA	-	-	-	38876	-	-
2001-018	2452038.42	2001 May 8 2210:29	Zenit-3SL	-	9?/DM-SL-7L	SL6 XM Radio-1	XM Radio-1	51022-302	ODYSSEY	KLA	-	-	-	38716	-	-
2001-056	2452254.22	2001 Dec 10 1718:57	Zenit-2	-	45021-101/19L	Meteor-3M	Meteor-3M 17F45 No. 101	-	-	GIK-5	LC45/1	-	-	1321	-	-
2002-030	2452441.44	2002 Jun 15 2239:30	Zenit-3SL	-	SL8/DM-SL-8L	SL8 Galaxy 3C	Galaxy III-C	45022-301	ODYSSEY	KLA	-	-	-	41494	-	-
2003-026	2452801.08	2003 Jun 10 1355:59	Zenit-3SL	-	SL16/DM-SL-18L	SL9 Thuraya 2	Thuraya 2	45084-701	ODYSSEY	KLA	-	-	-	36034	-	-
2003-034	2452859.65	2003 Aug 8 0330:55	Zenit-3SL	-	SL10/DM-SL-10L	SL10 Echostar IX	Echostar IX	67022-403	ODYSSEY	KLA	-	-	-	36090	-	-
2003-044	2452913.67	2003 Oct 1 0402:59	Zenit-3SL	-	SL13/DM-SL-12L	SL11 Galaxy 13/Hor.1	Galaxy XIII/Horizons 1	45073-501	ODYSSEY	KLA	-	-	-	35893	-	-
2004-001	2453015.68	2004 Jan 11 0412:59	Zenit-3SL	-	SL12/DM-SL-9L	SL12 Telstar 14	Telstar 14	51022-405	ODYSSEY	KLA	-	-	-	36761	-	-
2004-016	2453130.03	2004 May 4 1242:00	Zenit-3SL	-	SL14/DM-SL-16L	SL13 DirecTV 7S	DirecTV 7S	51073-502	ODYSSEY	KLA	-	-	-	36216	-	-
2004-021	2453166.56	2004 Jun 10 0128:00	Zenit-2	-	70121-402/1-95	Kosmos-2406	Tselina-2 No. 16L	70121-402	-	GIK-5	LC45/1	-	-	1182	-	-
2004-024	2453185.67	2004 Jun 29 0358:59	Zenit-3SL	-	SL11/DM-SL-11L	SL20 Telstar 18	Apstar 5	45022-404	ODYSSEY	KLA	-	-	-	36181	-	-
2005-008	2453430.66	2005 Mar 1 0350:59	Zenit-3SL	-	SL17/DM-SL-17L	SL18 XM Radio-3	XM Radio-3	51084-702	ODYSSEY	KLA	-	-	-	35927	-	-
2005-015	2453486.81	2005 Apr 26 0731:29	Zenit-3SL	-	SL18/DM-SL-19L	SL15 Spaceway 1	Spaceway 1	67084-803	ODYSSEY	KLA	-	-	-	45519	-	-
2005-022	2453545.09	2005 Jun 23 1403:00	Zenit-3SL	-	SL4/DM-SL-13L	SL14 IA-8	Intelsat Americas 8	51048-902	ODYSSEY	KLA	-	-	-	36026	-	-
2005-044	2453683.09	2005 Nov 8 1406:59	Zenit-3SL	-	SL19/DM-SL-20L	SL23 Inmarsat 4F2	INMARSAT 4 F2	70121-301	ODYSSEY	KLA	-	-	-	36006	-	-
2006-003	2453782.48	2006 Feb 15 2334:55	Zenit-3SL	-	SL15/DM-SL-14L	SL24 Echostar 10	Echostar 10	67073-603	ODYSSEY	KLA	-	-	-	35851	-	-
2006-010	2453838.48	2006 Apr 12 2329:59	Zenit-3SL	-	SL21/DM-SL-22L	SL31 JCSAT-9	JCSAT-9	70131-402	ODYSSEY	KLA	-	-	-	35830	-	-
2006-023	2453904.83	2006 Jun 18 0750	Zenit-3SL	-	SL20/DM-SL-21L	SL29 Galaxy 16	Galaxy 16	70131-301	ODYSSEY	KLA	-	-	-	35940	-	-
2006-034	2453969.64	2006 Aug 22 0327:01	Zenit-3SL	-	SL23/DM-SL-23L	SL25 Koreasat-5	Koreasat 5	70141-402	ODYSSEY	KLA	-	-	-	36175	-	-
2006-049	2454039.49	2006 Oct 30 2348:59	Zenit-3SL	-	SL22/DM-SL-24L	SL22 XM Radio-4	XM Radio-4	70131-403	ODYSSEY	KLA	-	-	-	36096	-	-
2007-F01	2454131.47	2007 Jan 30 2322	Zenit-3SL	-	SL24/DM-SL-25L	SL16 NSS 8	NSS 8	70141-403	ODYSSEY	KLA	-	-	-	0	-	-
2007-029	2454280.92	2007 Jun 29 1000:00	Zenit-2M	-	70141-301/1-2005	Kosmos-2428	Tselina-2 No. 17L	70141-301	-	GIK-5	LC45/1	-	-	1187	-	-
2008-001	2454480.99	2008 Jan 15 1148:59	Zenit-3SL	-	SL25/DM-SL-15L	SL36 Thuraya 3	Thuraya 3	70151-301	ODYSSEY	KLA	-	-	-	35999	-	-
2008-013	2454545.45	2008 Mar 19 2247:59	Zenit-3SL	-	SL26/DM-SL-26L	SL32 DirecTV 11	DirecTV-11	70151-302	ODYSSEY	KLA	-	-	-	41363	-	-
2008-022	2454584.71	2008 Apr 28 0500:00	Zenit-3SLB	-	SB60.1/SLB 1TL	AMOS 3	Amos 3	70151-404	-	GIK-5	LC45/1	-	-	39590	-	-
2008-024	2454607.91	2008 May 21 0943:59	Zenit-3SL	-	SL27/DM-SL-27L	SL30 Galaxy 18	Galaxy 18	70151-403	ODYSSEY	KLA	-	-	-	35853	-	-
2008-035	2454663.72	2008 Jul 16 0520:59	Zenit-3SL	-	SL28/DM-SL-28L	SL34 Echostar 11	Echostar 11	70151-405	ODYSSEY	KLA	-	-	-	35821	-	-
2008-045	2454733.89	2008 Sep 24 0927:59	Zenit-3SL	-	SL29/DM-SL-29L	SL35 Galaxy 19	Galaxy 19	70161-404	ODYSSEY	KLA	-	-	-	35829	-	-
2009-009	2454889.27	2009 Feb 26 1829:55	Zenit-3SLB	-	SB60.2/SLB 2	Telstar 11N	Telstar 11N	70161-302	-	GIK-5	LC45/1	-	-	36099	-	-
2009-020	2454941.84	2009 Apr 20 0815:59	Zenit-3SL	-	SL30/DM-SL-30L	SL42 SICRAL 1B	SICRAL 1B	70171-301	ODYSSEY	KLA	-	-	-	35891	-	-
2009-032	2455004.41	2009 Jun 21 2150:00	Zenit-3SLB	-	SB60.3/SLB 3L	Measat-3A	Measat 3A	70171-403	-	GIK-5	LC45/1	-	-	35982	-	-
2009-067	2455166.38	2009 Nov 30 2100:00	Zenit-3SLB	-	SB60.4/SLB 4L	Intelsat IS-15	IS-15	70161-301	-	GIK-5	LC45/1	-	-	41421	-	-
2011-001	2455582.02	2011 Jan 20 1229:02	Zenit-3SLBF	-	SB80.1-2007/1-2001	Elektro-L	Elektro-L	70161-403	-	GIK-5	LC45/1	-	-	36090	-	-
2011-037	2455760.61	2011 Jul 18 0231:18	Zenit-3SLBF	-	SLB80.3/1-2002	Spektr-R	RadioAstron	70181-401	-	GIK-5	LC45/1	-	-	150000	-	-
2011-051	2455829.35	2011 Sep 24 2017:59	Zenit-3SL	-	SL31/DM-SL-31L	SL39 Atlantic Bird 7	Atlantic Bird 7	70171-404	ODYSSEY	KLA	-	-	-	35883	-	-
2011-056	2455840.38	2011 Oct 5 2100:02	Zenit-3SLB	-	SB60.5/SLB 5L	Intelsat IS-18	IS-18	70102-305	-	GIK-5	LC45/1	-	-	35925	-	-
2011-065	2455874.34	2011 Nov 8 2016:03	Zenit-2SB	-	2SB41.1,2FG	Fobos-Grunt	Pereletniy modul' FG	70181-302	-	GIK-5	LC45/1	-	-	568	-	-
2012-030	2456079.72	2012 Jun 1 0522:59	Zenit-3SL	-	SL33/DM SL-32L	SL45 Intelsat IS-19	Intelsat IS-19	70102-304	ODYSSEY	KLA	-	-	-	35870	-	-
2012-045	2456158.79	2012 Aug 19 0654:59	Zenit-3SL	-	SL34/DM SL-33L	SL49 Intelsat IS-21	Intelsat IS-21	70202-404	ODYSSEY	KLA	-	-	-	35936	-	-
2012-069	2456265.36	2012 Dec 3 2043:59	Zenit-3SL	-	SL35/DM SL-34L	SL50 Eutelsat 70B	EUTELSAT 70B	70102-405	ODYSSEY	KLA	-	-	-	35814	-	-
2013-F01	2456324.79	2013 Feb 1 0656:00	Zenit-3SL	-	SL36/DM-SL-35L	SL48 Intelsat IS-27	Intelsat IS-27	70103-301	ODYSSEY	KLA	-	-	-	1	-	-
2013-016	2456404.38	2013 Apr 21 2100:00	Antares 110	-	2TRS2S1.2 (1)	Cygnus Mass Sim	A-ONE	70101-402	-	MARS	Pad 0A	-	-	278	-	-
2013-045	2456536.34	2013 Aug 31 2005:00	Zenit-3SLB	-	SB60.6/SLB 6L	Amos 4	Amos 4	70103-401	-	GIK-5	LC45/1	-	-	40701	-	-
2013-051	2456554.12	2013 Sep 18 1458:02	Antares 110	-	2TRS2S1.3 (2)	S.S. G. David Low	Cygnus Orb-D	-	-	MARS	Pad 0A	-	-	437	-	-
2014-003	2456667.25	2014 Jan 9 1807:08	Antares 120	-	2TRS2S1.1 (3)	S.S. C. Gordon Fullerton	Cygnus Orb-1	70101-401	-	MARS	Pad 0A	-	-	701	-	-
2014-030	2456804.38	2014 May 26 2109:59	Zenit-3SL	-	SL37/DM-SL-36L	Eutelsat 3B	EUTELSAT 3B	70104-302	ODYSSEY	KLA	-	-	-	35812	-	-
2014-039	2456852.20	2014 Jul 13 1652:14	Antares 120	-	2TRS2S1.4 (4)	S.S. Janice Voss	Cygnus Orb-2	70102-401	-	MARS	Pad 0A	-	-	438	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2014-F02	2456959.43	2014 Oct 28 2222:30	Antares 130	-	2TRS2S1.5 (5)	S.S. Deke Slayton	Cygnus Orb-3	70103-404	-	MARS	Pad 0A	-	-	0	-	-
2015-074	2457368.07	2015 Dec 11 1345:32	Zenit-3SLBF	-	SLB80.4/402/2004	Elektro-L No. 2	Elektro-L No. 2	70102-402	-	GIK-5	LC45/1	-	-	36411	-	-
2016-062	2457679.49	2016 Oct 17 2345:40	Antares 230	-	2TRS2S1.7 (6)	S.S. Alan Poindexter	Cygnus OA-5	70105-301	-	MARS	Pad 0A	-	-	538	-	-
2017-071	2458070.01	2017 Nov 12 1219:51	Antares 230	-	2TRS2S1.8 (7)	S.S. Gene Cernan	Cygnus OA-8	70105-401	-	MARS	Pad 0A	-	-	469	-	-
2017-086	2458114.29	2017 Dec 26 1900:04	Zenit-3SLBF	-	SLB80.5/2006	Angosat	Angosat	70103-403	-	GIK-5	LC45/1	-	-	36892	-	-
2018-046	2458259.86	2018 May 21 0844:06	Antares 230	-	2TRS2S1.6 (8)	S.S. J.R. Thompson	Cygnus OA-9	70104-303	-	MARS	Pad 0A	-	-	490	-	-
2018-092	2458439.88	2018 Nov 17 0901:23	Antares 230	-	2TRS2S1.9 (9)	S.S. John Young	Cygnus NG-10	70107-301	-	MARS	Pad 0A	-	-	471	-	-
2019-022	2458591.37	2019 Apr 17 2046:07	Antares 230	-	2TRS2S1.10 (10)	S.S. Roger Chaffee	Cygnus NG-11	70107-302	-	MARS	Pad 0A	-	-	537	-	-
2019-071	2458790.08	2019 Nov 2 1359:47	Antares 230+	-	2TRS2S1.11 (11)	S.S. Alan Bean	Cygnus NG-12	70107-	-	MARS	Pad 0A	-	-	476	-	-
2020-011	2458895.35	2020 Feb 15 2021:04	Antares 230+	-	2TRS2S1.12 (12)	S.S. Robert Lawrence	Cygnus NG-13	70108-401	-	MARS	Pad 0A	-	-	544	-	-
2020-069	2459125.55	2020 Oct 3 0116:12	Antares 230+	-	2TRS2S1.13? (13)	S.S. Kalpana Chawla	Cygnus NG-14	-	-	MARS	Pad 0A	-	-	489	-	-
2021-013	2459266.23	2021 Feb 20 1736:49	Antares 230+	-	2TRS2S1.14? (14)	S.S. Katherine Johnson	Cygnus NG-15	-	-	MARS	Pad 0A	-	-	506	-	-
2021-072	2459437.42	2021 Aug 10 2201:05	Antares 230+	-	2TRS2S1.15? (15)	S.S. Ellison Onizuka	Cygnus NG-16	-	-	MARS	Pad 0A	-	-	464	-	-
2022-015	2459630.24	2022 Feb 19 1740:03	Antares 230+	-	2TRS2S1.16? (16)	S.S. Piers Sellers	Cygnus NG-17	-	-	MARS	Pad 0A	-	-	425	-	-
2022-149	2459890.94	2022 Nov 7 1032:42	Antares 230+	-	2TRS2S1.17? (17)	S.S. Sally Ride	Cygnus NG-18	-	-	MARS	Pad 0A	-	-	-	-	-
2023-110	2460158.52	2023 Aug 2 0031:18	Antares 230+	-	2TRS2S1.18? (18)	S.S. Laurel Clark	Cygnus NG-19	-	-	MARS	Pad 0A	-	-	-	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1985-F01	2446168.83	1985 Apr 13 0800:00	Zenit-2	-	45086-101	3.200	UNKS	OF	S2P	G	Sat LEO 0 4	AK15	AVMS	Oxidizer flow high
1985-053	2446237.85	1985 Jun 21 0829:32	Zenit-2	-	51076-105	3.204	UNKS	OF	S2P	G	Sat LEO 0 4	AK15/RAEX	AVMS	Vernier exploded
1985-097	2446360.79	1985 Oct 22 0700:00	Zenit-2	-	67076-106	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1985-121	2446427.89	1985 Dec 28 0916:30	Zenit-2	-	51041-502	14.550	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	AVMS	-
1986-056	2446641.85	1986 Jul 30 0830:00	Zenit-2	-	45061-501/4L	10.350	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1986-080	2446725.83	1986 Oct 22 0800:00	Zenit-2	-	67041-503/6L	4.000	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1987-016	2446840.85	1987 Feb 14 0830:00	Zenit-2	-	45041-504	10.363	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1987-027	2446872.85	1987 Mar 18 0830:00	Zenit-2	-	51038-401	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1987-041	2446928.74	1987 May 13 0540:00	Zenit-2	-	45058-403	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1987-065	2447008.67	1987 Aug 1 0359:59	Zenit-2	-	45095-601/11L	10.074	UNKS	OS	-	G	Sat SSO 0 4	AK15/RAEX	-	-
1987-071	2447035.85	1987 Aug 28 0820:00	Zenit-2	-	51058-404/10L	11.008	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1988-039	2447296.89	1988 May 15 0920:00	Zenit-2	-	51065-615/12L	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1988-102	2447489.12	1988 Nov 23 1450:58	Zenit-2	-	51095-612/13L	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1990-046	2448033.72	1990 May 22 0514:02	Zenit-2	-	67065-613/2S	3.250	UNKS	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1990-F05	2448168.69	1990 Oct 4 0428:00	Zenit-2	-	45079-216/14S/1-88	3.200	UNKS	OF	PE	G	Sat LEO 0 4	AK15	AVMNLJ	Exploded T+2s
1991-F03	2448498.87	1991 Aug 30 0858:01	Zenit-2	-	51019-217/16L/2-88	3.200	UNKS	OF	S2P	G	Sat LEO 0 4	NK91-3	-	Engine out
1992-F01	2448658.26	1992 Feb 5 1814:00	Zenit-2	-	45082-801/17L/1-91	3.200	UNKSR	OF	S2P	G	Sat LEO 0 4	AK15	AVMNLJ	S2 exploded
1992-076	2448943.82	1992 Nov 17 0747:01	Zenit-2	-	67092-802/2-91	3.250	VKSR	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1992-093	2448981.75	1992 Dec 25 0556:00	Zenit-2	-	67033-306/3-90	3.250	VKSR	OS	-	G	Sat LEO 0 4	AK15/RAEX	-	-
1993-016	2449072.60	1993 Mar 26 0221:00	Zenit-2	-	45065-614/3S-87	3.250	VKSR	OS	-	G	Sat LEO 0 4	AVMP	-	-
1993-059	2449246.82	1993 Sep 16 0736:19	Zenit-2	-	67019-218/3-88	3.250	VKSR	OS	-	G	Sat LEO 0 4	AVMP	-	-
1994-023	2449465.83	1994 Apr 23 0801:59	Zenit-2	-	45019-219/1-89	3.250	VKSR	OS	-	G	Sat LEO 0 4	AVMP	-	-
1994-053	2449591.00	1994 Aug 26 1200:00	Zenit-2	-	67057-901/14NI	12.004	VKSR	OS	-	G	Sat LEO 0 4	AVMP	-	-
1994-074	2449660.74	1994 Nov 4 0547:00	Zenit-2	-	51057-902/1-87	1.900	VKSR	OS	-	G	Sat LEO 0 4	NK9422-46	-	-
1994-077	2449680.89	1994 Nov 24 0915:59	Zenit-2	-	45033-305/2-90	3.250	VKSR	OS	-	G	Sat LEO 0 4	AVMN	-	-
1995-058	2450022.35	1995 Oct 31 2019:00	Zenit-2	-	45057-903/2-89	3.250	VKSR	OS	-	G	Sat LEO 0 4	AVMN	-	-
1996-051	2450330.88	1996 Sep 4 0901:00	Zenit-2	-	51027-905/15L	3.250	VKSR	OS	-	G	Sat LEO 0 4	NK9701-40	AVMN	-
1997-F02	2450588.80	1997 May 20 0707:00	Zenit-2	-	45013-302/1-90	3.200	VKSR	OF	S1P	G	Sat LEO 0 4	NK9711-24	Wire	Engine vibration fracture T+48s
1998-043	2451004.77	1998 Jul 10 0630:00	Zenit-2	-	67021-803/18NI	2.679	RVSNR	OS	-	G	Sat SSO 0 4	NK9815-19	-	-
1998-045	2451022.89	1998 Jul 28 0915:00	Zenit-2	-	45092-803/1-98	3.250	RVSNR	OS	-	G	Sat LEO 0 4	NK9815-25	-	-
1998-F05	2451066.35	1998 Sep 9 2029:00	Zenit-2 11K77.05	-	67047-801/22L	5.400	RVSNR	OF	S2G	G/C	Sat LEO 0 4	Wire	NK9902-45	Guidance failed T+4:32
1999-014	2451265.56	1999 Mar 28 0129:59	Zenit-3SL	-	1L/DM-SL-1TL	4.700	SEALC	OS	-	CO/C	Sat GTO 0	Wire	-	-
1999-039	2451376.73	1999 Jul 17 0538:00	Zenit-2	-	51025-802/17L	6.300	RVSNR	OS	-	G	Sat SSO 0 4	NK9909-34	Kosmodrom9908	-
1999-056	2451461.64	1999 Oct 10 0328:00	Zenit-3SL	-	3L/DM-SL-3L	3.447	SEALC	OS	-	CO/C	Sat GTO 0	Wire	-	-
2000-006	2451577.89	2000 Feb 3 0926:00	Zenit-2	-	45025-801/1-94	3.254	RVSNR	OS	-	G	Sat LEO 0 4	NK0004-17	-	-
2000-F02	2451616.12	2000 Mar 12 1449:15	Zenit-3SL	-	2L/DM-SL-2L	2.750	SEALC	OF	S2P	CO/C	Sat GTO 0	Wire	-	Vernier commanding error
2000-043	2451754.45	2000 Jul 28 2242:00	Zenit-3SL	-	5?/DM-SL-4L	3.650	SEALC	OS	-	CO/C	Sat GTO 0	NK0009-45	-	-
2000-056	2451812.92	2000 Sep 25 1010:00	Zenit-2	-	67013-303/16NI	12.008	RVSNR	OS	-	G	Sat LEO 0 4	NK0011-36	-	-
2000-066	2451838.74	2000 Oct 21 0552	Zenit-3SL	-	6L/DM-SL-6L	5.108	SEALP	OS	-	CO/C	Sat GTO 0	Wire	-	-
2001-012	2451987.44	2001 Mar 18 2233:30	Zenit-3SL	-	7?/DM-SL-5L	4.682	SEALP	OS	-	CO/C	Sat GTO 0	Wire	-	-
2001-018	2452038.42	2001 May 8 2210:29	Zenit-3SL	-	9?/DM-SL-7L	4.667	SEALP	OS	-	CO/C	Sat GTO 0	Wire	-	-
2001-056	2452254.22	2001 Dec 10 1718:57	Zenit-2	-	45021-101/19L	3.011	KVR	OS	-	G	Sat SSO 0 4	rosaviakosmos.ru	NK0202-27	-
2002-030	2452441.44	2002 Jun 15 2239:30	Zenit-3SL	-	SL8/DM-SL-8L	4.850	SEALP	OS	-	CO/C	Sat GTO 0	NK0208-36	-	-
2003-026	2452801.08	2003 Jun 10 1355:59	Zenit-3SL	-	SL16/DM-SL-18L	5.177	SEALP	OS	-	CO/C	Sat GTO 0	www.sea-launch.com	NK0308-32	-
2003-034	2452859.65	2003 Aug 8 0330:55	Zenit-3SL	-	SL10/DM-SL-10L	4.737	SEALP	OS	-	CO/C	Sat GTO 0	NK0310-22	www.sea-launch.com	-
2003-044	2452913.67	2003 Oct 1 0402:59	Zenit-3SL	-	SL13/DM-SL-12L	4.090	SEALP	OS	-	CO/C	Sat GTO 0	NK0312-34	www.sea-launch.com	-
2004-001	2453015.68	2004 Jan 11 0412:59	Zenit-3SL	-	SL12/DM-SL-9L	4.694	SEALP	OS	-	CO/C	Sat GTO 0	NK0403-09	www.sea-launch.com	-
2004-016	2453130.03	2004 May 4 1242:00	Zenit-3SL	-	SL14/DM-SL-16L	5.483	SEALP	OS	-	CO/C	Sat GTO 0	www.sea-launch.com	-	-
2004-021	2453166.56	2004 Jun 10 0128:00	Zenit-2	-	70121-402/1-95	3.254	KVR	OS	-	G	Sat LEO 0 4	NK0408-25	-	-
2004-024	2453185.67	2004 Jun 29 0358:59	Zenit-3SL	-	SL11/DM-SL-11L	4.845	SEALP	OS	-	CO/C	Sat GTO 0	NK0408-31	www.sea-launch.com	-
2005-008	2453430.66	2005 Mar 1 0350:59	Zenit-3SL	-	SL17/DM-SL-17L	4.682	SEALP	OS	-	CO/C	Sat GTO 0	NK0505-06	-	-
2005-015	2453486.81	2005 Apr 26 0731:29	Zenit-3SL	-	SL18/DM-SL-19L	6.080	SEALP	OS	-	CO/C	Sat GTO 0	www.sea-launch.com	-	-
2005-022	2453545.09	2005 Jun 23 1403:00	Zenit-3SL	-	SL4/DM-SL-13L	5.493	SEALP	OS	-	CO/C	Sat GTO 0	NK0508-08	-	-
2005-044	2453683.09	2005 Nov 8 1406:59	Zenit-3SL	-	SL19/DM-SL-20L	5.958	SEALP	OS	-	CO/C	Sat GTO 0	NK0601-08	-	-
2006-003	2453782.48	2006 Feb 15 2334:55	Zenit-3SL	-	SL15/DM-SL-14L	4.333	SEALP	OS	-	CO/C	Sat GTO 0	NK0604-03	-	-
2006-010	2453838.48	2006 Apr 12 2329:59	Zenit-3SL	-	SL21/DM-SL-22L	4.401	SEALP	OS	-	CO/C	Sat GTO 0	NK0606-32	-	-
2006-023	2453904.83	2006 Jun 18 0750	Zenit-3SL	-	SL20/DM-SL-21L	4.640	SEALP	OS	-	CO/C	Sat GTO 0	NK0608-10	-	-
2006-034	2453969.64	2006 Aug 22 0327:01	Zenit-3SL	-	SL23/DM-SL-23L	4.448	SEALP	OS	-	CO/C	Sat GTO 0	NK0610-27	-	-
2006-049	2454039.49	2006 Oct 30 2348:59	Zenit-3SL	-	SL22/DM-SL-24L	5.193	SEALP	OS	-	CO/C	Sat GTO 0	NK0612-16	-	-
2007-F01	2454131.47	2007 Jan 30 2322	Zenit-3SL	-	SL24/DM-SL-25L	5.920	SEALP	OF	PE	CO/C	Sat GTO 0	Wire	-	LOX pump failed
2007-029	2454280.92	2007 Jun 29 1000:00	Zenit-2M	-	70141-301/1-2005	3.254	KVR	OS	-	G	Sat LEO 0 4	NK0708-36	-	-
2008-001	2454480.99	2008 Jan 15 1148:59	Zenit-3SL	-	SL25/DM-SL-15L	5.180	SEALP	OS	-	CO/C	Sat GTO 0	NK0803-30	-	-
2008-013	2454545.45	2008 Mar 19 2247:59	Zenit-3SL	-	SL26/DM-SL-26L	6.060	SEALP	OS	-	CO/C	Sat GTO 0	NK0805-42	-	-
2008-022	2454584.71	2008 Apr 28 0500:00	Zenit-3SLB	-	SB60.1/SLB 1TL	1.360	SIS	OS	-	CO/C	Sat GEO 0	NK0806-38	-	-
2008-024	2454607.91	2008 May 21 0943:59	Zenit-3SL	-	SL27/DM-SL-27L	4.640	SEALP	OS	-	CO/C	Sat GTO 0	NK0807-32	-	-
2008-035	2454663.72	2008 Jul 16 0520:59	Zenit-3SL	-	SL28/DM-SL-28L	5.525	SEALP	OS	-	CO/C	Sat GTO 0	Wire	-	-
2008-045	2454733.89	2008 Sep 24 0927:59	Zenit-3SL	-	SL29/DM-SL-29L	4.640	SEALP	OS	-	CO/C	Sat GTO 0	NK0811-34	-	-
2009-009	2454889.27	2009 Feb 26 1829:55	Zenit-3SLB	-	SB60.2/SLB 2	4.010	SIS	OS	-	CO/C	Sat GTO 0	NK0904-37	-	-
2009-020	2454941.84	2009 Apr 20 0815:59	Zenit-3SL	-	SL30/DM-SL-30L	3.038	SEALP	OS	-	CO/OG	Sat GTO 0	NK0906-35	-	-
2009-032	2455004.41	2009 Jun 21 2150:00	Zenit-3SLB	-	SB60.3/SLB 3L	2.366	SIS	OS	-	CO/C	Sat GTO 0	Wire	-	-
2009-067	2455166.38	2009 Nov 30 2100:00	Zenit-3SLB	-	SB60.4/SLB 4L	2.484	SIS	OS	-	CO/C	Sat GTO 0	NK1001-40	-	-
2011-001	2455582.02	2011 Jan 20 1229:02	Zenit-3SLBF	-	SB80.1-2007/1-2001	1.984	KVR?	OS	-	G/G	Sat GEO 00 5	NK1103-26	-	-
2011-037	2455760.61	2011 Jul 18 0231:18	Zenit-3SLBF	-	SLB80.3/1-2002	4.024	KVR?	OS	-	G/G	Sat DSO 00 5	NK1109-39	-	-
2011-051	2455829.35	2011 Sep 24 2017:59	Zenit-3SL	-	SL31/DM-SL-31L	4.600	ELUS	OS	-	CO/C	Sat GTO 0	NK1111-39	sea-launch.com	-
2011-056	2455840.38	2011 Oct 5 2100:02	Zenit-3SLB	-	SB60.5/SLB 5L	3.200	SIS/ELUS	OS	-	CO/C	Sat GTO 0	NK1211-28	sea-launch.com	-
2011-065	2455874.34	2011 Nov 8 2016:03	Zenit-2SB	-	2SB41.1,2FG	13.624	RKA	OS	-	G/G	Sat LEO 0 4	Wire	-	-
2012-030	2456079.72	2012 Jun 1 0522:59	Zenit-3SL	-	SL33/DM SL-32L	5.540	ELUS	OS	-	CO/C	Sat GTO 0	NK1208-28	-	-
2012-045	2456158.79	2012 Aug 19 0654:59	Zenit-3SL	-	SL34/DM SL-33L	5.984	ELUS	OS	-	CO/C	Sat GTO 0	spaceflightnow.com	NK1210-44	-
2012-069	2456265.36	2012 Dec 3 2043:59	Zenit-3SL	-	SL35/DM SL-34L	5.250	ELUS	OS	-	CO/C	Sat GTO 0	sea-launch.com	-	-
2013-F01	2456324.79	2013 Feb 1 0656:00	Zenit-3SL	-	SL36/DM-SL-35L	6.215	ELUS	OF	S1G	CO/C	Sat GTO 0	sea-launch.com	-	Hydraulics failed
2013-016	2456404.38	2013 Apr 21 2100:00	Antares 110	-	2TRS2S1.2 (1)	3.808	OSC	OS	-	CX/C	Sat ISS 0	Wire	-	-
2013-045	2456536.34	2013 Aug 31 2005:00	Zenit-3SLB	-	SB60.6/SLB 6L	4.260	SIS/ELUS	OS	-	CO/C	Sat GTO 0	NK1310-39	-	-
2013-051	2456554.12	2013 Sep 18 1458:02	Antares 110	-	2TRS2S1.3 (2)	4.827	OSC	OS	-	CX/C	Sat ISS 0	Wire	-	-
2014-003	2456667.25	2014 Jan 9 1807:08	Antares 120	-	2TRS2S1.1 (3)	6.489	OSC	OS	-	CX/C	Sat ISS 0	Wire	-	-
2014-030	2456804.38	2014 May 26 2109:59	Zenit-3SL	-	SL37/DM-SL-36L	5.967	ELUS	OS	-	CO/C	Sat GTO 0	sea-launch.com	-	-
2014-039	2456852.20	2014 Jul 13 1652:14	Antares 120	-	2TRS2S1.4 (4)	6.923	OSC	OS	-	CX/C	Sat ISS 0	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2014-F02	2456959.43	2014 Oct 28 2222:30	Antares 130	-	2TRS2S1.5 (5)	8.356	OSC	OF	S1P	CX/C	Sat ISS O	Wire	-	Turbopump failed
2015-074	2457368.07	2015 Dec 11 1345:32	Zenit-3SLBF	-	SLB80.4/402/2004	2.219	KVR?	OS	-	G/G	Sat GEO OO 5	Wire	-	-
2016-062	2457679.49	2016 Oct 17 2345:40	Antares 230	-	2TRS2S1.7 (6)	8.534	OSC	OS	-	CX/C	Sat ISS O	Wire	-	-
2017-071	2458070.01	2017 Nov 12 1219:51	Antares 230	-	2TRS2S1.8 (7)	7.089	OSC	OS	-	CX/C	Sat ISS O	Wire	-	-
2017-086	2458114.29	2017 Dec 26 1900:04	Zenit-3SLBF	-	SLB80.5/2006	2.011	KVR?	OS	-	G/OG	Sat GEO OO 5	Wire	-	-
2018-046	2458259.86	2018 May 21 0844:06	Antares 230	-	2TRS2S1.6 (8)	10.564	OSC	OS	-	CX/C	Sat ISS O	Wire	-	-
2018-092	2458439.88	2018 Nov 17 0901:23	Antares 230	-	2TRS2S1.9 (9)	10.480	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2019-022	2458591.37	2019 Apr 17 2046:07	Antares 230	-	2TRS2S1.10 (10)	10.451	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2019-071	2458790.08	2019 Nov 2 1359:47	Antares 230+	-	2TRS2S1.11 (11)	11.796	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2020-011	2458895.35	2020 Feb 15 2021:04	Antares 230+	-	2TRS2S1.12 (12)	11.721	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2020-069	2459125.55	2020 Oct 3 0116:12	Antares 230+	-	2TRS2S1.13? (13)	11.804	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2021-013	2459266.23	2021 Feb 20 1736:49	Antares 230+	-	2TRS2S1.14? (14)	11.986	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2021-072	2459437.42	2021 Aug 10 2201:05	Antares 230+	-	2TRS2S1.15? (15)	11.924	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2022-015	2459630.24	2022 Feb 19 1740:03	Antares 230+	-	2TRS2S1.16? (16)	11.992	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2022-149	2459890.94	2022 Nov 7 1032:42	Antares 230+	-	2TRS2S1.17? (17)	12.114	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-
2023-110	2460158.52	2023 Aug 2 0031:18	Antares 230+	-	2TRS2S1.18? (18)	11.809	NGIS	OS	-	CX/C	Sat ISS O	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
1967-A159	2439790.50	1967 Oct 27	Zenit	-	1	Low impulse test	-	-	-	SDQ	-	-	-	0	-	-
1967-S742	2439790.50	1967 Oct 27	Zenit	-	2	Dummy payload	-	-	-	SDQ	-	-	-	140?	-	-
1967-S505	2439791.16	1967 Oct 27 1545	Zenit	-	3	-	-	-	-	SDQ	-	-	-	145	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPay t	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
1967-A159	2439790.50	1967 Oct 27	Zenit	-	1	0.000	CH	AS	-	BERN/	Test	SciIndSpat4	-	-
1967-S742	2439790.50	1967 Oct 27	Zenit	-	2	0.000	CH	AS	-	BERN/	Test	SciIndSpat4	-	-
1967-S505	2439791.16	1967 Oct 27 1545	Zenit	-	3	0.000	CH	SS	-	BERN/	Test	SciIndSpat4	-	-

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	Launch FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2021-S10	2459245.50	2021 Jan 31?	Zoljanah	-	-	Test	-	-	-	SHAHR?	-	-	-	500	-	Arabian Sea
2022-S56	2459754.50	2022 Jun 24?	Zoljanah	-	-	Test	-	-	-	SEM	-	-	-	500	-	Arabian Sea

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2021-S10	2459245.50	2021 Jan 31?	Zoljanah	-	-	0.000	IRGC	TS	-	-	Test	Wire	-	-
2022-S56	2459754.50	2022 Jun 24?	Zoljanah	-	-	0.000	IRGC	TS	-	-	Test	Wire	-	-

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	Flight	Mission	FlightCode	Platform	Launch_Site	Launch_Pad	Ascent_Site	Ascent_Pad	Apogee km	Range km	Dest
2017-S39	2457922.50	2017 Jun 18	Zulfiqar	-	Laylat-al-Qadr	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2017-S40	2457922.50	2017 Jun 18	Zulfiqar	-	-	-	-	Syria attack	-	IRKURD	-	-	-	200?	700?	Deir-ez-Zor
2017-S41	2457922.50	2017 Jun 18	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2017-S42	2457922.50	2017 Jun 18	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2017-S43	2457922.50	2017 Jun 18	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2017-S44	2457922.50	2017 Jun 18	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Deir-ez-Zor
2018-S55	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Syria
2018-S56	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	200?	700?	Syria
2018-A137	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	-	-	Syria attack	-	KERM	-	-	-	1?	-	-
2020-S04	2458856.44	2020 Jan 7 2230?	Zulfiqar	-	-	Fateh-313?	-	-	-	TABRIZ	-	-	-	100?	-	AynAlAsad
2020-S05	2458856.44	2020 Jan 7 2230?	Zulfiqar	-	-	-	-	-	-	KERM	-	-	-	100?	-	AynAlAsad
2020-S06	2458856.44	2020 Jan 7 2237?	Zulfiqar	-	-	-	-	-	-	TABRIZ	-	-	-	100?	-	AynAlAsad
2020-S07	2458856.44	2020 Jan 7 2237?	Zulfiqar	-	-	-	-	-	-	KERM	-	-	-	100?	-	AynAlAsad
2020-S08	2458856.46	2020 Jan 7 2301?	Zulfiqar	-	-	-	-	-	-	TABRIZ	-	-	-	100?	-	AynAlAsad
2020-S09	2458856.46	2020 Jan 7 2301?	Zulfiqar	-	-	-	-	-	-	KERM	-	-	-	100?	-	AynAlAsad
2021-S08	2459230.50	2021 Jan 16	Zolfaghar	-	-	-	-	Great Prophet 15	-	GARM	-	-	-	200?	800?	Indian O.

Launch

Launch_Tag	Launch_JD	Launch_Date	LV_Type	Variant	Flight_ID	OrbPayt	Agency	LaunchCode	FailCode	Group	Category	LTCite	Cite	Notes
2017-S39	2457922.50	2017 Jun 18	Zulfiqar	-	Laylat-al-Qadr	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S40	2457922.50	2017 Jun 18	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S41	2457922.50	2017 Jun 18	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S42	2457922.50	2017 Jun 18	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S43	2457922.50	2017 Jun 18	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2017-S44	2457922.50	2017 Jun 18	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2018-S55	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2018-S56	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2018-A137	2458392.50	2018 Oct 1 0000?	Zulfiqar	-	-	0.000	IR	MF	U	-	Weapon	Wire	-	-
2020-S04	2458856.44	2020 Jan 7 2230?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S05	2458856.44	2020 Jan 7 2230?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S06	2458856.44	2020 Jan 7 2237?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S07	2458856.44	2020 Jan 7 2237?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S08	2458856.46	2020 Jan 7 2301?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2020-S09	2458856.46	2020 Jan 7 2301?	Zulfiqar	-	-	0.000	IR	MS	-	-	Weapon	Wire	-	-
2021-S08	2459230.50	2021 Jan 16	Zolfaghar	-	-	0.000	IR	MS	-	-	Test	twitter/inbarspace	-	-